HOLIDAY INN EXPRESS & SUITES

ABBREVIATIONS

ADJ	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
ALUM	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
BD.	BOARD
BLDG.	BUILDING
C.A.	CLEAR ANODIZED
CEM.	CEMENT
CER.	CERAMIC
C.G.	CORNER GUARD
C.J.	CONTROL JOINT
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CORR.	CORRIDOR
C.T.	CERAMIC TILE
DET.	DETAIL
DIA.	DIAMETER
DN.	DOWN
D.S.	DOWNSPOUT
DWG	DRAWING
EA.	EACH
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
E.J.	EXPANSION JOINT
ELEC.	ELECTRICITY
ELEV.	ELEVATOR
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL.	FLOOR
F.O.B.	FACE OF BRICK
F.O.S.	FACE OF STUD
F.R.P.	FIBER REINFORCED PANEL
F.R.T.	FIRE RETARDANT TREATED
F.S.	FLOOR SINK
GALV.	GALVANIZED
GL.	GLASS
GWB.	GYPSUM WALL BOARD
GYP.	GYPSUM
HGT	HEIGHT
HORIZ.	HORIZONTAL
HR.	HOUR
ID.	INSIDE DIAMETER
INSUL.	INSULATION
JST.	JOIST
JT.	JOINT
LAM.	LAMINATE
M.O.	MASONRY OPENING
MACH.	MACHINE
MAX.	MAXIMUM
MECH.	PLUMBING
MIN. or MN.	MINIMUM
MISC.	MISCELLANEOUS
MNT.	MOUNT OR MOUNTED
MTL	METAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.S.F.S.	NEAR SIDE AND FAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OD.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
OPP.	OPPOSITE
O.R.D.	OVERFLOW ROOF DRAIN
P.L. or PLAM	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PNT	PAINT
P.S.B.	PENCIL SHARPENER BOARD
P.T.	PRESSURE TREATED
Q.T.	QUARRY TILE
RAD.	RADIUS
R.D.L.	ROOF DRAIN LEADER
REINF	REINFORCEMENT
REQD.	REQUIRED
RES.	RESILIENT
RM.	ROOM
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
S.C.	SOLID CORE
SCWD.	SOLID CORE WOOD
S.F.	SQUARE FEET
SHT.	SHEET
SIM.	SIMILAR
ST.	STAIN
STD.	STANDARD
STG.	STAGGER TOP AND BOTTOM
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURE
SUSP.	SUSPENDED
SYNTH.	SYNTHETIC
T.O.S.	TOP OF STEEL
TEL.	TELEPHONE
TEMP.	TEMPERED
THK.	THICKNESS
TYP.	TYPICAL
U.O.N. or U.N.O	UNLESS OTHERWISE NOTED
UTIL.	UTILITY
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.W.C.	VINYL WALL COVERING
WC.	WATER CLOSET
WD.	WOOD
W.P.	WATER PROOFING
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XTG.	EXISTING

MATERIAL LEGEND

STEEL · CAST STONE OR STUCCO · RIGID INSULATION · GRAVEL POROUS FILL

CMU · FINISHED WOOD · CONCRETE · PLYWOOD

BATT INSULATION · EARTH · WOOD BLOCKING OR FRAMING · GYPSUM BOARD

FLOOR	AREA (SQUARE FEET)
First Floor:	14, 776
Second Floor:	14, 497
Third Floor:	14, 497
Fourth Floor:	14, 497
GRAND TOTAL:	58, 267

TOTAL NUMBER OF ROOMS: 95
TOTAL PARKING: 101 (INCLUDING 4 ADA)
TOTAL NUMBER OF FLOORS: FOUR
OCCUPANCY CLASSIFICATION: R1
TYPE OF CONSTRUCTION: IV-B; WOOD-FRAMED WITH WOOD FLOORS JOISTS (FULLY SPRINKLERED)
MAXIMUM HEIGHT OF BUILDING: 52 FEET

ROOM LEGEND

GUESTROOM TYPE / FLOOR	KING	DOUBLE QUEEN	KING WIDE	KING X-WIDE	KING SUITE	DOUBLE QUEEN SUITE	ACCESSIBLE ROLL-IN X-WIDE KING	ACCESSIBLE X-WIDE KING	ACCESSIBLE DOUBLE QUEEN	ACCESSIBLE KING SUITE	ACCESSIBLE DOUBLE QUEEN SUITE	HEARING IMPAIRED KING	HEARING IMP. DOUBLE QUEEN	HEARING IMP. KING SUITE	HEAR. IMP. DOUBLE QUEEN STE	TOTAL
FIRST FLOOR	3	0	0	0	0	0	1	0	0	0	0	1	0	0	0	5
SECOND FLOOR	11	9	1	0	3	1	0	1	0	1	0	1	1	0	1	30
THIRD FLOOR	12	9	0	1	3	2	0	0	0	1	0	1	1	0	0	30
FOURTH FLOOR	13	8	0	1	2	2	0	0	1	0	0	1	1	1	0	30
TOTAL	39	26	1	2	8	5	1	1	1	1	1	4	3	1	1	95
RATIO %	41.1	27.4	1	2.1	8.4	5.3	1	1	1	1	1	4.2	3.1	1	1	100

ACCESSIBLE ROLLIN KING: 1
ACCESSIBLE ROOMS: 4
TOTAL NUMBER OF ACCESSIBLE ROOMS: 5

TOTAL HEARING IMPAIRED ROOMS: 9

REQUIREMENT BY CITY OF SOUTHAVEN:

1. GENERAL CONTRACTOR TO PROVIDE THIRD-PARTY INSPECTIONS FOR THE FOUNDATION, FRAMING AND FIRE CAULKING FOR THE PROJECT. RESULTS OF INSPECTIONS NEED TO BE SUBMITTED TO ARCHITECT AND CITY OF SOUTHAVEN FOR APPROVAL.

Title Sheets	
Sheet #	Sheet Name
T000	Cover
T001	Code Information
T002	UL Details
T003	UL Details
T004	UL Details
T005	UL Details
T006	ADA Details
T007	ADA Details
T008	Mounting Heights

Architectural Sheets	
Sheet #	Sheet Name
A001	Site Plan
A101	First Floor Plan
A102	Second Floor Plan
A103	Third Floor Plan
A104	Fourth Floor Plan
A105	Roof Plan
A201	First Floor RCP
A202	Second Floor RCP
A203	Third Floor RCP
A204	Fourth Floor RCP
A301	Elevations
A302	Elevations
A401	Sections
A402	Sections
A403	Sections
A404	Wall Types
A405	Roof Details
A406	Canopy Details
A407	Canopy Details
A501	Room Layouts
A502	Room Layouts
A503	King & King Suite
A504	Accessible King Suite & King X wide
A505	Accessible X wide King and Double Queen
A506	Double Queen Suite and Accessible Double Queen
A520	Stair Details
A521	Administrative Area Layout
A522	Pool, Restrooms and Elevator
A601	Interior Elevations
A602	Interior Elevations
A603	Casework Types and Details
A604	Casework Details
A605	Casework Details
A606	Casework Details
A607	Casework Details
A701	Room Schedule
A702	Door & Window Schedule
A801	Firewall Plan 1st Floor
A802	Firewall Plan 2nd Floor
A803	Firewall Plan 3rd Floor
A804	Firewall Plan 4th Floor

Civil Sheets	
Sheet #	Sheet Name
C1.0	General Notes and Details
C2.0	Site Plan
C3.0	Utility Layout
C3.1	Grading and Drainage Plan
C3.2	Erosion Control Plan
C4.0	Water, Sewer & Storm Drain Details
C4.1	Construction Details

Structural Sheets	
Sheet #	Sheet Name
S001	General Notes
S002	General Notes
S003	Special Inspections
S101	Foundation and Floor Slab Plan
S201	2nd Floor Framing Plan
S202	3rd and 4th Floor Framing Plan
S203	Roof Framing Plan
S301	Foundation, Section and Details
S302	Foundation, Section and Details
S401	Floor Framing Section & Details
S402	Floor Framing Section & Details
S501	Roof Framing Section & Details
S502	Roof Framing Section & Details
S601	Simpson ATS Details
S602	Simpson ATS Elevations

Mechanical Sheets	
Sheet #	Sheet Name
M001	Mechanical Legend & Schedules
M002	Mechanical Notes and Details
M003	Mechanical Details
M101	Mechanical 1st Floor Plan
M102	Mechanical 2nd Floor Plan
M103	Mechanical 3rd Floor Plan
M104	Mechanical 4th Floor Plan
M201	Mechanical Roof Plan
M301	Mechanical Enlarged Guestroom Plans
M302	Mechanical Enlarged Guestroom Plans

Plumbing Sheets	
Sheet #	Sheet Name
P001	Plumbing Notes and Legend
P002	Plumbing Schedule
P003	Plumbing Details
P004	Plumbing Details
P100	Plumbing Fisrt Floor Plan Sanitary and Storm
P101	Plumbing Fisrt Floor Plan Water and Gas
P102	Plumbing Second Floor Plan
P103	Plumbing Third Floor Plan
P104	Plumbing Fourth Floor Plan
P105	Plumbing Roof Plan
P201	Plumbing Enlarged Guest Room Plans Sanitary
P202	Plumbing Enlarged Guest Room Plans Sanitary
P203	Plumbing Enlarged Guest Room Plans Water
P204	Plumbing Enlarged Guest Room Plans Water
P205	Plumbing Enlarged Plans Sanitary
P206	Plumbing Enlarged Plans Water and Gas
P301	Plumbing Riser Diagrams Sanitary
P302	Plumbing Riser Diagrams Sanitary
P303	Plumbing Riser Diagrams Sanitary
P304	Plumbing Riser Diagrams Water

Electrical Sheets	
Sheet #	Sheet Name
E001	Electrical Specifications
E002	Electrical Schedules
E003	Electrical Details
E004	Electrical Details
E100	Site Plan-Electrical
E100A	Site Plan-Photometrics
E101	1st Floor Plan-Lighting
E102	2nd Floor Plan-Lighting
E103	3rd Floor Plan-Lighting
E104	4th Floor Plan-Lighting
E201	1st Floor Plan-Power
E202	2nd Floor Plan-Power
E203	3rd Floor Plan-Power
E204	4th Floor Plan-Power
E205	Roof Plan-Power
E301	Enlarged Public Area Plan-Power
E302	Enlarged Public Area Plan-Power
E303	Enlarged Public Area Plan-Power
E304	Enlarged Guest Room Plans
E305	Enlarged Guest Room Plans
E401	Telephone & Fire Alarm Riser Diagrams
E402	Power Riser Diagrams
E501	Electrical Panel Schedules
E502	Electrical Panel Schedules
E503	Electrical Panel Schedules
E504	Electrical Panel Schedules
E505	Electrical Panel Schedules

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Cover

Phase
Construction Documents

Project No.	14-081
Prepared by	Author
Checked by	Checker
Date	Feb. 27, 2015

Sheet No. T000

Review

Holiday Inn Express & Suites

3/2/2015 5:40:47 AM

Code Compliance Review based on currently adopted International Building Code 2009

Building Overview
Type of Construction, Type VA that is fully Automatic Sprinklered. Maximum area and height limitations with area and height increases are 4 stories, 70'-0" height and 24,000 sq. ft./floor.
Actual Building Height, 4 Stories 56'-6" above lowest Fire Department Vehicle access.

Chapter 3 Use and Occupancy.

Main Occupancy R1 Hotel.
Areas per floor/Occupancy
First Floor: 13,008 sq.ft. with R1 (Bedrooms, Reception, Vestibule, Lobby and Misc spaced) 7,752 sq.ft., A-2 (Dining) 946 sq.ft., A-3 (Fitness and Meeting) 1,282 sq.ft. and B (Admin, Office, etc.) 275 sq.ft.
S2 (Storage) 1,723 sq.ft., F1(Kitchen, Laundry) 917 sq. ft. occupancies
Second Floor 12,289 sq.ft. with R1 and 408 sq.ft. with S2 occupancy.
Third Floor 12,448 sq.ft. with R1 and 408 sq.ft. with S2 occupancy.
Fourth Floor 12,448 sq.ft. with R1 and 408 sq.ft. with S2 occupancy.

Chapter 4 Special detailed requirements based on Occupancy.

403.6 Fire service elevator is required in buildings with an occupied floor 75'-0" above the lowest fire department vehicle access. Not applicable.

420.2 Walls separating bedrooms/bedrooms and other rooms/spaces are to be constructed as fire partitions per section 709 and corridors per section 1018.
420.3 Floors/ceilings separating bedrooms/bedrooms and other rooms/spaces are to be constructed as horizontal assemblies per section 712.

Chapter 5 Building heights and areas.

Table 503 Allowable heights and areas.
For a R1 Hotel occupancy of 4 story in height less than 70'-0" above lowest Fire Department Vehicle (56'-6") and less than 24,000 sq.ft. Construction Type VA is applicable.
504.2 Automatic sprinkler system permits height increase by one floor and 20'-0". R occupancies maximum height cannot exceed 4 stories and 60'-0".
504.3 Non habitable roof structures are permitted to project 20'-0" beyond the allowable building height.
506.3 Automatic sprinkler system permits area increase of 200% for buildings with more than one story.

Using Automatic sprinkler system increases the Construction Type VA is applicable.

Highrise buildings are those with an occupied floor 120'-0" above the lowest fire department vehicle access. Not applicable.

508.2.4 Combined, both A-2 (Dining) and B (Admin, Office, etc.) occupancies does not exceed 10% maximum allowance as an accessory space. They are not considered separate occupancies requiring separation.

Table 508.2.5 Incidental accessory Furnace/Boiler, Laundry, waste and linen rooms are required to be 1 Hr separated, automatic sprinkler system exception can not be taken.

Table 508.4 Occupancy separation
R to A requires 1 hour fire barrier separation.
R to B requires 0 hour fire barrier separation.
A to B requires 1 hour fire barrier separation.

No occupancy separation is required, occupancies exceed 10% maximum allowance as an accessory space. Exception, A-3 occupancies Fitness and Pool exceed the 10% accessory space and must be separated with the 1 hour barrier.

Chapter 6 Types of Construction.

Table 601 Fire resistive construction for building elements

Primary structural frame requires 1 hour fire protection for Type VA construction.
Exterior bearing walls require 1 hour fire protection for Type VA construction.
Interior bearing walls require 1 hour fire protection for Type VA construction.
Floor construction and secondary members require 1 hour fire protection for Type VA construction.
Roof construction and secondary members require 1 hour fire protection for Type VA construction.

602.3 Type VA construction requires exterior and interior load bearing elements to be of any material permitted by the code.

Chapter 7 Fire and Smoke Protection Features.

713.4 Shafts shall have a fire resistive rating of not less than 2 hours where connection 4 or more stories, 1 hours where connection 3 or less stories.

713.13 Refuse and Laundry chutes.
Chutes shall be enclosed in a 2 Hr shaft and provided with chute access and termination rooms which have a min 1 hour fire barrier rating.

713.14.1 Elevator lobby shall be provided with enclosing fire partitions at each floor where the elevator shaft connects more than 3 stories.
Exception 1, Elevator lobby is not required at street level.
Exception 4, Elevator lobby is not required in buildings with a automatic sprinkler system.

708.3 Fire partitions shall have a fire resistive construction of not less than 1 hour or that required for occupancy separation.
Exception 2, dwellings and sleeping unit separations in Type IIB, IIIB and VB construction requires only 1/2 hour ratings in buildings with an automatic sprinkler system.

711.3 Horizontal assemblies shall have a fire resistive construction of not less than 1 hour.
Exception 2, dwellings and sleeping unit horizontal separations in Type IIB, IIIB and VB construction requires only 1/2 hour ratings in buildings with an automatic sprinkler system.

Chapter 8 Interior Finishes.

Table 803.9 Interior finish classification in buildings with an automatic sprinkler system.
Exit enclosure and passage ways Class B.
Corridors Class C.
Rooms and enclosed spaces Class C.

Chapter 9 Fire Protection Systems.

Building is fully Automatic sprinklered in compliance with chapter 9 and NFPA 13.

Chapter 10 Means of Egress.

1003.2 minimum ceiling height 7'-6" with projections minimum 6'-8" per 1003.3.1.

Table 1004.1.1 Occupant load factor.
R1 Residential 200 sq.ft./occupant.
A2 Assembly unconcentrated 15 sq.ft./occupant.
B Buisness office 100 sq.ft./occupant.

1005.1 Egress width vertical 0.3"/occupant and horizontal 0.2"/occupant.

1005.2 Doors cannot reduce egress width more than 7" when fully opened.

1007 Accessible means of egress.
Stairways if used as accessible means of egress are required to be 48" wide and provided with an area of refuge if not sprinklered.
Elevators if used as accessible means of egress are required to be accessible from the area of refuge. Not applicable, stair used as accessible means of egress.

1009 Stairways.
Minimum width 44", 36" if occupant load is less than 50, 48" is used as an accessible means os egress. Landing width to match stair width.
Riser heights are to be uniform between 4" to 7".
Riser run maximum 12'-0".
Treads are to be uniform and minimum 11" wide excluding 1" toe space.

1012 Handrails
Handrail height to be between 34" to 38" above floor, landing and tread nosing. Handrail grasping size to be 1 1/4" to 2" diameter with wall clearance of 1 1/2".
Handrail shall be continuous or provide extensions that return to the wall or guardrail, extend horizontally 12" at the top and continue to slope for one tread at the bottom.

1013 Guards
Guardrails are required where vertical drop exceeds 30" to a floor or 36" at grade and level below, minimum 42" heights and prevent the passage of a 4" dia sphere.

1015 Exit Access, two means of egress is required. Table 1015.1 spaces with one means of egress are permitted in R1 occupancy where occupant load is 10 or less.

1016 Exit travel distance, in R1 occupancy is 200' without sprinklers and 250' with sprinklers.

1018 Corridors, in R1 occupancy with occupant load greater than 10 with sprinklers requires 1/2" hour fire partitions.

1021 Number of Exits, Table 1021.1 2 exits are required where occupant load is 1 to 500.

1022 Exit enclosure, 1021.1 2 hour fire barrier is required for buildings 4 or more stories and 1 hour fire barrier is required for buildings 3 or less stories.

1022.9 Smoke proof and pressurized stairways are required in buildings defined as high rise by 403 or an Atrium by 404 and where the top floor is 75' above the lowest fire department vehicle access. Not applicable.

Chapter 11 Accessibility.

1101.2 requires compliance with ICC A117.1.

1103.2.9 Equipment and maintenance spaces are exempt from accessibility requirements.

1106 Parking spaces, Table 106.1 for 76 to 100 numbers of parking spaces provided 4 are required to be accessible. 5 accessible spaces are provided.
1106.5 Van accessible parking spaces, for every 6 required accessible space one shall be van accessible. 1 van accessible accessible spaces are provided.

1107.2 Dwelling and Sleeping units shall comply with Chapter 10 of the ICC A117.1.

1107.6 Table 1107.6.1.1 for buildings with 76 to 100 Dwelling and Sleeping units require 4 non roll in accessible showers and 1 roll in type accessible shower.
Buildings with 101 to 150 Dwelling and Sleeping units require 5 non roll in accessible showers and 2 roll in type accessible shower. 5 accesible units are provided, all are combined roll in/non-roll in type. Required 5 accessible rooms shall be type A units, all other shall be type B units only if intended to be occupied as a residence.

1109.2 Toilet and Bathing facilities, in each accessible toilet and bathing room at least one of each fixture type shall be accessible.
Exception 2, not required for Dwelling and sleeping units complying with 1107. All public/staff bathrooms are accessible where fittings and fixtures are accessible compliant.

1109.2.2 Water Closet compartments. Where six or more water closets or urinals are required, one additional accessible water closet compartment shall be provided. All public/staff bathrooms are accessible where fittings and fixtures are accessible compliant.

1109.2.3 Lavatories, Where six or more Lavatories are required one additional accessible Lavatories shall be provided. All public/staff bathrooms are accessible where fittings and fixtures are accessible compliant.

1109.4 Kitchens and Kitchenettes shall be accessible in accessible spaces or rooms. Kitchenettes is accessible.

1109.5 Drinking Fountains. No fewer than 2 drinking fountains shall be provided in accessible spaces, one for standing people and one for people in wheelchairs.
Exception, one drinking fountain that complies with the requirements of both people standing and in wheelchairs. One drinking fountain is provided and accessible complaint.

Chapter 12 Interior Environment.

1203, Ventilation is provide through the mechanical ventilation system.

1205 Natural light equal to 8% or the room floor or artificial light providing an average of 10 foot candles (107 Lux) measured at 30" above the floor.

1207 Sound Transmission. Common interior walls, floors and ceilings between dwelling units and adjacent areas or rooms shall be not less than STC 50. Owner requests STC 50.

1208 Interior Space Dimensions. Habitable spaces shall have the following minimum dimensions.
Width 7'-0". Kitchens 3'-0".
Ceiling height 7'-6". Kitchens, Bathrooms, Toilets, Storage and Laundries, 7'-0".
Furred Ceilings, 7'-0".

1210 Surrounding Materials.
1210.1 Floors in Toilets, Bathing and Showers shall have a smooth, hard and none absorbing surface including a 4" wall base.

1210.2 Walls and partitions within 2'-0" of toilets and urinals shall have a smooth, hard and none absorbing surface extending up 4'-0" above the floor.
Exception 1 and 2, Dwelling and Sleeping Units, and toilet rooms not accessible to the public that do not contain more than one water closet.

1210.3 Showers shall have a smooth, hard and non absorbing surface extending up 70" above the drain inlet.

Chapter 13 Energy Efficiency.

Compliance with the International Energy Code is required.

Chapter 14 Exterior Walls.

Exterior Walls shall have an approved weather covering and class I, II or III vapor barrier depending on the cladding system.

Chapter 15 Roof Assemblies and Rooftop Structures.

Roof assemblies shall have an approved roof covering class C for type IIIB construction type or class B for type IV or VA construction types.

Membrane roof minimum slope is 1/4" per 1'-0".

Roof insulation classification to comply with Table 1508.2 material standard for roof insulation.

Chapter 25 Gypsum Board and Plaster.
Compliance to be determined once final materials and locations to be determined.

Chapter 26 Plastics.
Compliance to be determined once final materials and locations to be determined.

Chapter 29 Plumbing Systems.

Table 2902.1 Required Plumbing Fixtures.
R1 occupancy requires 1 water closet and bathtub/shower per sleeping unit. Drinking fountain is not applicable and 1 service sink.
A-2 occupancy requires 1:75 male water closets, 1:75 male water closets, 1:200 lavatories, 1:500 drinking fountains and 1 service sink.
B occupancy requires 1:25 then 1:50 water closets, 1:40 then 1:80 lavatories, 1:100 drinking fountains and 1 service sink.

2902.2 Separate facilities shall be provided for each sex. Exception, dwelling and sleeping units, where occupant load is less than 15.

2903.1 Separate water closet compartments shall be provided. Exception, single water closet rooms.

2903.2 Urinal partitions shall be provided to provide privacy. Partitions shall be at least 18" off the wall or 6" beyond the urinal outer most lip and 12" to 60" off the floor.
Exception, single water closet rooms provided with a urinal.

Chapter 30 Elevators and Conveying Systems.

3002.2 Where 4 or more elevators serve the all or the same portion of the building, they shall be separated into 2 hoist ways. No more than 4 elevators are permitted to occupy the same shaft.

3002.4 Elevators in buildings 4 or more stories, at least one elevator shall provide for fire department emergency access to all floors. The elevator car shall be design for an ambulance stretcher 24" wide by 84" long with 5" radius corners.

3004.1 Hoist way venting is required for elevators servicing more than 3 stories.
Exception 1, Hoist way venting is not required for R1 occupancies with an automatic sprinkler system.

3007 Fire Service Elevators are required in buildings per 403.6.1 exceeding 120' in height. Not applicable.

Chapter 31 Special Construction, not applicable.

Wall and floor fire rated construction.

Typical Wood Floor Framing.
ICC File No. ER-3433 1 Hour Fire Rating provided

Typical Roof Framing
UL P522 1 Hour Fire Rating provided

Typical Exterior walls (1 hour fire rating required at load bearing exterior walls).
UL U356 1 Hour Fire Rating Wood Studs provided
UL U902 4 Hour Fire Rating CMU Block wall with face bricks or EIFS provided
UL U906 2 Hour Fire Rating CMU Block wall with Stucco provided

Typical Corridor walls.
UL U337 1 Hour Fire Rating Wood Studs bearing wall provided

Typical Demising Walls between guestrooms/guestrooms and bathrooms/bathrooms.
UL U311 1 Hour Fire Rating Wood Studs bearing wall provided

Interior CMU Bearing Walls.
UL U914 3 Hour Fire Rating CMU block provided

MUA and linen shafts 2 hour rated per UL U334 provided

Structural to determine locations on plywood/OSB building bracing, where required they are in addition to the defined partition types.

Additional code compliance requirements:
ICC ANSI A117.1 and ADA 2010. Guestrooms with communication features per table 224.4 requires 9 rooms be provided, dispersed equally among each room type. 1 is permitted to be combined with a mobility accessible room.

Owner furnished systems, equipment and furniture must be accessible compliant where requred.

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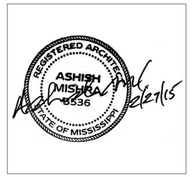
REVISIONS		
No.	Date	Description



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Code Information

Phase
Construction Documents

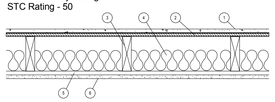
Project No.	14-081	Sheet No.	T001
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

3/2/2015 5:16:50 AM

Holiday Inn Express & Suites

ICC File No. ER-3433, Assembly 1
Floor Assembly Rating - 1 HR
STC Rating - 50



1. Gyp-Crete Gypsum Cement: Minimum 3/4" thick; density 100 pounds per cubic foot (minimum)

2. Subfloor: 5/8" plywood installed in accordance with the code

3. 2x10 wood joists at 16 o.c.

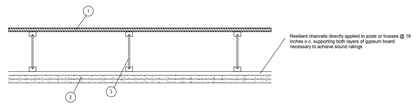
4. 2-1/2" fiberglass insulation; density, 1.5pcf (optional)

5. 1/2" deep by 1-1/2" wide, No. 25 gage resilient channels at 24" o.c. fastened to each joist with 1-1/4" long drywall screws

6. 5/8" gypsum board fastened to channel with 1" long drywall screws spaced at 12" o.c. All joints taped and sealed with compound

Note: In order to obtain 1-hour fire-resistive floor construction, the 1-1/2" wide No. 25 gage resilient channels must be fastened to each joist with 1-1/4" long Type W or S screws spaced 12" o.c. Additionally, the 5/8" Type 'X' gypsum wallboard must be fastened to channels with 1" long Type S screws.

ICC File No. ESR-1153, Assembly B, Option 2
Floor Assembly Rating - 1 HR
STC Rating - 58



1. 48/24 tongue-and-groove span rated sheathing (Exposure 1), nailed and glued to the TJI joists with construction adhesive conforming to ASTM D3498

2. Two layers of 1/2" thick Type C, or 5/8" thick Type X gypsum board

3. TJI Joist

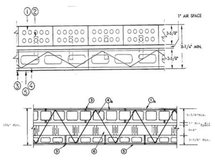
4. Optional minimum 3-1/2" thick glass fiber insulation or glass fiber insulation rated R-30 or less, with resilient channels (not shown)

Note: In order to obtain an STC rating of 58, the assembly requires 3/4" gypsum concrete topping (minimum) and two layers of 5/8" thick Type X gypsum board with minimum 3-1/2" thick fiber insulation or glass fiber insulation rated R-30 or less.

Note: Assembly B, Option 2 has a minimum STC rating of 58 when constructed with resilient channels spaced at 16" o.c. to separate the ceiling membrane from the structural framing, and with a 3/4" floor topping of gypsum concrete recognized in a current evaluation report.

DESIGN NO. U902

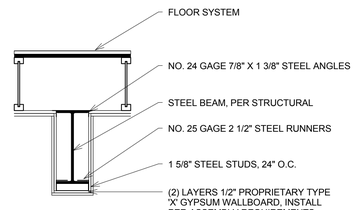
Bearing Wall Rating -- 4 HR. Alternate Detail



1. **Clay Face Brick --** 3-5/8 in. wide by 2-1/4 in. high by 8 in. long.
1A. **Concrete Blocks* --** Various designs. Classification D-2 (2 h). See Concrete Blocks category for list of eligible manufacturers.
1 Brick Ties -- 3/4 in. wide, 7 in. long corrugated 26 MSG galv steel. Spaced one to each brick in every second course of blocks.
2 Mortar -- Bricks and blocks laid in full bed of mortar nom. 3/8 in. thick of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by vol) and not more than 50 percent hydrated lime (by cement vol). Vertical joints staggered.
3 Reinforcement -- Parallel and diagonal rods, 0.150 in. min diam with welded joints a max 16 in. OC. Placed the width of concrete block wall in every second course of blocks alternately with brick ties.

4A. **Masonry Reinforcement --** Prefabricated steel reinforcement, truss or ladder type, used for embedment in every second horizontal mortar joint. Placed the full width of wall assembly. Side and cross rods No. 9
(0.150 in.) min diam with welded joints a max 16 in. OC.
5. **Concrete Blocks* --** Nom 4 in. wide. **OLDCASTLE PRECAST INC, DBA AMACOR PRECAST INC**
Concrete Blocks -- (Alternate to Item 5) -- Various designs Classification D-2 (2 h). See Concrete Blocks category for list of eligible manufacturers.
6. **Foamed Plastic* --** (Optional -- Not shown with clay face brick detail) Rigid polystyrene insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks.
THE DOW CHEMICAL CO OC CELFORTEC INC OWENS CORNING SPECIALTY & FOAM PRODUCTS --Type 150 or 250.
6A. **Foamed Plastic* --** (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks. **BPB AMERICA INC --**Type Thermax *Bearing the UL Classification Mark

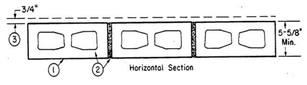
1-HOUR RATED
TYPICAL RATED STEEL BEAM SURROUND



BASED ON GA FILE NO: BM 1137
1 HOUR RATED ASSEMBLY

DESIGN NO. U906

Bearing Wall Rating--2HR. Nonbearing Wall Rating--2HR.

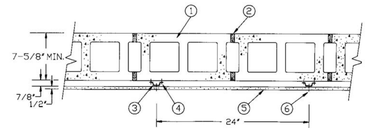


1. **Concrete Blocks* --** Nominal 6 by 8 by 16 in, hollow or solid. Classification D-2 (2 hr). **ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC** Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method. **BETCO BLOCK & PRODUCTS INC, DBA ARTHUR WHITCOMB WESTBROOK CONCRETE BLOCK CO INC** Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.
1 Mortar -- Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
2 Portland Cement Stucco or Gypsum Plaster -- Add 1/2 hr to Classifihichcation if used. Attached to concrete blocks (Item 1).
3 Foamed Plastic* -- (Optional-Not Shown) -- 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

BPB AMERICA INC --Type Thermax *Bearing the UL Classification Mark
*Bearing the UL Classification Mark

DESIGN NO. U914

Bearing Wall Rating--3HR. Nonbearing Wall Rating--3HR.



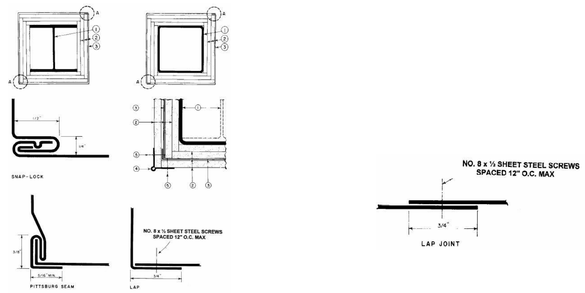
1 Concrete Blocks* -- Various designs. Classification D-2 (2 hr'). See **Concrete Blocks** category for list of eligible manufacturers.
2 Mortar -- Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3 Furring Channels -- Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-3/4 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels 1/2 in.
4 Channel Fasteners -- 1-1/4 in. long masonry screws with 3/16 in. body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with the fasteners staggered on each long leg of the furring channel.

4A. **Steel Framing Members* --** (Not Shown) -- Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 48 in. OC., and secured to blocks with 1/4 in. dia. By 3 in. long concrete expansion anchor (Item 4B) through the center grommet. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC --Type RSIC-1.
4B. **Concrete Expansion Anchor --** (Not Shown) -- 1/4 in. dia. by 3 in. long carbon steel, pre-assembled, nail drive expansion anchor with mushroom head driven into the web of the concrete block. Min. embedment in concrete block of 1-3/8 in. and evaluated in accordance with ASTM E 488 to have ultimate load capacities of 980 lbs (tension) and 1400 lbs (shear) when used in 2000 psi concrete.
5. **Gypsum Board* --** 1/2 in. thick, 4 ft wide, secured to furring channels with wallboard fasteners (Item 6). Gypsum plaster not more than 1/16 in. thick may be applied to wallboard in addition to joint treatment.
AMERICAN GYPSUM CO --Types AG-C, AGX-C. **BPB AMERICA INC --** ProRoc Type C. **BPB CANADA INC --** ProRoc Type C. **CANADIAN GYPSUM COMPANY --**Types C, IP-X2, IPC-AR. **G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP --**Type 5. **LAFARGE NORTH AMERICA INC --**Types LGFC-C, LGFC
C/A. **NATIONAL GYPSUM CO --**Types FSK-C, FSW-C, FSMR-C. **PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC --**Type PG-C.-- **STANDARD GYPSUM L L C --**Type SG-C. **TEMPLE-INLAND FOREST PRODUCTS CORP --**Type TG-C. **UNITED STATES GYPSUM CO --**Types C, IP-X2, IPC-AR. **USG MEXICO S ADE C V --**Types C, IP-X2, IPC-AR.
1 Wallboard Fasteners -- 1 in. long, self-drilling, self-tapping steel screws with bugle heads. Fasteners attached to each furring channel and spaced 8 in. OC at butt joints and 12 in. OC in the field of the board parallel with furring channels. Clearance between fasteners and edges of wallboard 3/4 in.
2 Joint System -- (Not shown) -- Paper tape embedded in cementitious compound over joints. Paper tape and exposed screw heads covered with two layers of compound. Edges of compound feathered out.

*Bearing the UL Classification Mark

DESIGN NO. X526

1, 2, 3 and 4 hour



1 Steel Column -- Min sizes of W shape and tubular steel columns in the AISC Steel Construction Manual as shown under Item 2.
2 Gypsum Board -- Any 5/8 in. thick or 1/2 in. thick wallboard bearing the Underwriters Laboratories Inc. Fire Resistance Classification Marking. Min total thicknesses of layers in inches for the various ratings and min column sizes are as follows:

W Shape Columns Min Column Size Rating Hr Dsg Outside Flange Web In.2 Total Thkns of Dimen-Thkns Thkns Area Layers of Wallboard In. sions In. In. 1234In.
W4x13 4-1/8x4 0.345 0.280 3.82 1 1-1/2 2-1/4 -- W6x15.5 6x6 0.269 0.235 4.56 1 1-1/2 2-1/4 3-1/8 W10x49 10x10 0.558 0.340 14.4 1/2 1-1/8 1-7/8 2-1/2
Tubular Shape Columns Min Column Size Rating Hr Outside Total Thkns of Dsg Dimensions Thkns In.2 Layers of Wallboard In. In.In.Area1 2 3 4
TS4X4X0.188 4X4 0.188 2.74 1 1-5/8 2-1/2 -- TS8X8X0.250 8X8 0.250 7.48 5/8 -- -- --
Applied in layers as shown in above illustration. Each layer held together with paper masking adhesive tape during erection to allow placement of succeeding layers. For column ratings of 2 hr or less, one layer of wallboard may be applied to the outer surface of steel cover. Boards applied vertically, without horizontal joints, attached to cover with screws located 1 in. from the board edge and 8 in. OC. See **Gypsum Board (CKNX)** category for names of manufacturers. 2A. **Gypsum Board* --** As an alternate to Item 2, 3/4 in. thick applied as
described in Item 2. **CANADIAN GYPSUM COMPANY --**Type IP-X3, ULTRACODE, UTRACODE SHC OR ULTRACODE WRC. **UNITED STATES GYPSUM CO --**Type IP-X3, ULTRACODE, UTRACODE SHC OR ULTRACODE WRC. **USG MEXICO S ADE C V --**Type IP-X3, ULTRACODE, UTRACODE SHC OR ULTRACODE WRC.
1 Steel Covers -- For seamed joints -- 0.024 in. min thickness (No. 24 MSG) uncoated, galv or stainless steel, for column ratings of 3 hr or less. For 4 hr ratings, only stainless steel cover to be used. Covers consist of two L-shaped sections with Snap-Lock or Pittsburgh sheet steel joints. Width to be determined on the basis of protection thickness and column size. Length of sections to provide 1/8 in. clearance per lineal foot of column length between cover and any restraint. For lapped joints -- (Max ratings 2 hr) -- No. 22 MSG (0.027 in. thick) uncoated or galv steel. Fasteners used at laps to be No. 8 by 1/2 in. steel sheet metal screws spaced a max of 12 in. O.C. Other details to be the same as those stated for seamed joints as shown above.
2 Corner Bead -- For columns with outer layer of wallboard attached to outside surface of metal cover, No. 28 MSG galv steel, 1-1/4 in. legs corner beads attached to wallboard with screws spaced 12 in. O.C.
3 Screws -- For columns with outer layer of wallboard attached to outhichside surface of metal cover, self-drilling Phillips bugle head, 1 in. long screws for 1/2 or 5/8 in. thick wallboard (1-1/4 in. long screws for 3/4 in. thick wallboard) are used to attach wallboard to steel cover, and corner bead to wallboard.
4 Sodium Silicate Solution -- (Not shown, optional) -- Used to adhere one layer of wallboard to inside of steel cover prior to assembly.
5 Finishing System -- (Not shown) -- Joint compound applied over cor

ner beads to a thickness of 1/16in. *Bearing the UL Classification Mark

3/2/2015 5:16:53 AM

MISHRA
ARCHITECTURE PLLC

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101 Highpointe Court, Suite B
Brandon, MS 39042
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Email:mikebes@bellsouth.net

STRUCTURAL:
WGPM, Inc.
11220 Elm Lane, Suite 201
Charlotte, NC 28277
Phone: (704) 542-7199
Fax: (704) 542-7195
Email: lwright@wgpminc.com

MEP:
Allied Consulting Engineers
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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
UL Details

Phase
Construction Documents

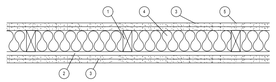
Project No.	14-081	Sheet No.
Prepared by	Author	T002
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

DESIGN NO. U334

Bearing Wall Rating - 2 HR STC Rating -62 (See Item 7



1. Wood Studs - Nom 2 by 4 in., spaced 16 in OC. Studs cross braced at mid-height and effectively fire stopped at top and bottom of wall.

2. Resilient Channel - 25 MSG galv steel, nom 2-1/2 in wide by 1/2 in deep. Resilient channels placed perpendicular to studs, spaced 24 in OC, flange portion attached to each intersecting stud with 1 in long Type S steel screws.

2A. Steel Framing Members (Optional, Not Shown)* - As an alternate to Item 2, furring channels and resilient sound isolation clip as described below:
a. Furring Channels - Formed of No. 25 MSG glv steel 2-3/8 in wide by 7/8 in deep, spaced 24 in OC perpendicular to studs. Channels secured to stud as described in Item B. Ends of adjoining channels are overlapped 6 in and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in and secured together with two self-tapping #6 framing screws, min 7/16 in long at the point of overlap, with one screw on each flange of the channel.
b. Steel Framing Members* - resilient sound isolation clips used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in OC, and secured to studs with No. 8x 2 1/2 in coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC- Type PSIC-1

3. Gypsum Board* - 5/8 in. thick, 4 ft wide. Attach to furring channels: base layer with 1 in. long Type S steel screws spaced max 24 in. OC, face layer with 1-5/8 in long Type S steel screws spaced max 12 in OC. Attach to wood studs: base layer with 1-7/8 in long 6d coated nails spaced max 14 in OC, face layer with 2-3/8 in long 8d coated nails spaced 7 in OC. Base layers installed vertically. Face layers installed horizontally with butt joints offset 16 in from base layers.

AMERICAN GYPSUM CO - Types AG-C, AGX-C .
BPB AMERICA INC - ProRoc Type C.
CANADIAN GYPSUM COMPANY - Types C, IP-X2, IPC-AR.
G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP - Type 5.
LAFARGE NORTH AMERICA INC - Types LGFC-C, LGFC-C/A.
NATIONAL GYPSUM CO - Types FSK-C, FSW-C, FSW-G.
PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Type C or PG-C.
STANDARD GYPSUM L L C - Type SG-C.
TEMPLE-INLAND FOREST PRODUCTS CORP - Type TG-C.
UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR.
USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR.

4. Batts and Blankets* - Nom. 2 in thick mineral wool insulation, 96 in long, cut to 15 in widths, friction fitted between studs in wall cavity

THERMAFIBER L L C - Type SAFB

4A. Batts and Blankets*- Glass fiber insulation. The cavities formed by the studs friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in thick and 15-1/4 in wide. See Batts and Blankets*(BZJZ) category for names of Classified Companies.

5. Joint Tape and Compound- Vinyl, dry or premixed joint compound, applied to joints, screw heads, and nail heads (two applications); paper tape, 2 in wide, embedded in first layer of compound over all joints

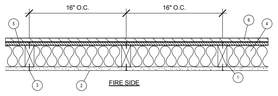
6. Caulking and Sealants- (not shown, optional) A bead of acoustical sealant applied around the partition perimeter for sound control

7. STC Rating- The STC rating of the wall assembly is 62 when it is constructed as described by Items 1 through 5, except:
a. Item 2A, above- Steel Framing Members* shall be used to attach wallboard to studs on either the acoustical source or the receiving side of the wall assembly.
b. Item 4A, above- Batts and Blankets* as described above, fiberglass insulation shall be used
c. Item 6, above- Caulking and Sealants (not shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control

*Bearing the UL Classification Mark

DESIGN NO. U356

Exterior Bearing Wall Rating - 1 Hr. Finish Rating



1. Wood Studs - Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5).

2. Gypsum Board* - Any Classified 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

3. Joints and Nailheads - (Not Shown) - Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound.

4. Batts and Blankets* - Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates.

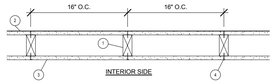
5. Wood Structural Panel Sheathing - Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing".

6. Exterior Facings - Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:
A. Vinyl Siding - Molded Plastic*
B. Particle Board Siding
C. Wood Structural Panel or Lap Siding
D. Cementitious Stucco
E. Brick Veneer
F. Exterior Insulation and Finish System (EIFS)
G. Siding - Aluminum or steel siding
H. Fiber-Cement Siding

* Bearing the UL Classification Mark

DESIGN NO. U337

Bearing Wall Rating - 1 HR. Finish Rating - See Item 2



1. Wood Studs - Nom 2 by 4 in. spaced 16 in. OC, effectively cross braced at mid-height and fire stopped at top and bottom.

2. Gypsum Board*-5/8in. thick, 4 ft wide, applied vertically. Wallboard attached to studs and bearing plates with 1-3/4in. long gavl nails wit 0.128 in diam. shank nail 7/16 in. diam head, spaced 8 in. on center.

G-P GYPSUM CORP, SUB OF
GEORGIA-PACIFIC CORP - Type DGG (finish rating 20 min), Type DAP, DD, DS.

3. Gypsum Board*-5/8in. thick, 4 ft wide, applied vertically. Wallboard attached to studs and bearing plates with 1-3/4in. long galv. nails with 0.128 in. diam shank and 7/16in. diam head, spaces 8 in. on center.

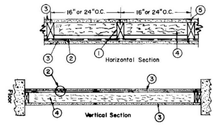
AMERICAN GYPSUM GO - Type AGX-7 (finish rating 20 min).
BEIJING NEW BUILDING MATERIALS CO LTD - Type DBX-1 (finish rating 24 min).-Type CG3-3 (finish rating 20 min), Type CG5-5 (finish rating 20 min), Type CG6-6
(finish rating 20 min), Type CG9-9 (finish rating 20 min), Type CGTC-C (finish rating 20 min)
BPB AMERICA INC - Type EGRG (finish rating 23 min).
G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP - Type 5,9,C, Type DGG (finish rating 20 min), Type GPFS2 (finish rating 24 min), Type GPFS6 (finish rating 20
min), Type DS, Type DAP, Type DD (finish rating 20 min), DA.
LAFARGE NORTH AMERICA INC - Type LGFC2 (finish rating 24 min), Type LGFC2A, Type LGFC3 (finish rating 20min), Type LGFC6 (finish rating 20 min), Type LGFC-C
(finish rating 20 min), Type LGFC6A (finish rating 34 min), Type LGFC-C/A
PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS - Type PG-9
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD - Type EX-1 (finish rating 26 min).

4. Joints and Nailheads - Exposed or covered with paper tape and joint compound. For tapered, rounded-edge wallboards, joints with paper tape and joint compound.

*Bearing the UL Classification Mark

DESIGN NO. U311

Bearing Wall Rating--1HR. Finish Rating -- 23 Min.

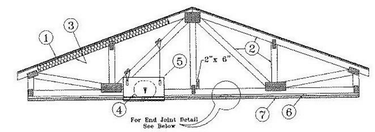


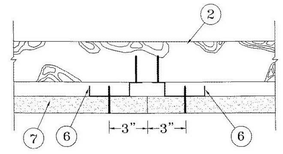
1 **Wood Studs --** Nom 2 by 4 in., spaced 16 or 24. OC. Effectively cross braced.
2 **Resilient Channel --** 25 MSG galv steel. Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.

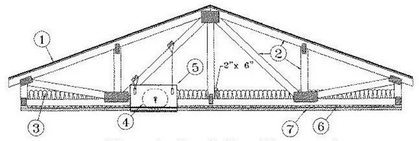
2A. **Steel Framing Members (Optional, Not Shown)* --** As an alternate to Item 2, furring channels and resilient sound isolation clip as described below:
a. **Furring Channels --** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
b. **Steel Framing Members* --** Resilient sound isolation clip used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC. and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC --Type RSIC-1.
3. **Gypsum Board* --** 5/8 in. thick, 4 ft wide. Screw attached one side to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 12 in. OC, along each edge. Wallboard attached other side to studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws spaced 12 in. OC, vertical joints located over studs.
AMERICAN GYPSUM CO --Types AG-C, AGX-C . **BPB AMERICA INC --**Type FRPC, ProRoc Type C. **BPB CANADA INC --** ProRoc Type C. **CANADIAN GYPSUM COMPANY --**Types C, IP-X2, IPC-AR. **G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP --** Type 5. **LAFARGE NORTH AMERICA INC --**Types LGFC-C, LGFC
C/A. **NATIONAL GYPSUM CO --**Types FSK-C, FSW-C, FSW-G. **PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC --**Type C or
PG-C. **STANDARD GYPSUM L L C --**Type SG-C. **TEMPLE-INLAND FOREST PRODUCTS CORP --**Type TG-C. **UNITED STATES GYPSUM CO --**Types C, IP-X2, IPC-AR. **USG MEXICO S ADE C V --**Types C, IP-X2, IPC-AR.
4. **Batts and Blankets* --** 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4-in. face of the studs with staples placed 24 in. OC.
ROCK WOOL MANUFACTURING CO --Delta Board. **JOHNS MANVILLE INTERNATIONAL INC ROXUL INC THERMAFIBER L L C --**Type SAFB.
4A. **Glass Fiber Insulation --** (As an alternate to Item 4) -- 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classi}fied companies.
4B. **Fiber, Sprayed* --** As an alternate to Batts and Blankets (Item 4) -- Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft3.
U S GREENFIBER L L C -- Cocoon stabilized cellulose insulation.
5. **Joints and Screw heads --** Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
*Bearing the UL Classification Mark

DESIGN NO. P522

Unrestrained Assembly Rating - 1 Hour Finish Rating - 25 Min (See Items 3 or 3A)







Alternate Insulation Placement

1 **Roofing System* --** Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.
2 **Trusses --** Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with 0.040 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.
3. **Batts and Blankets* --** (Optional) -- Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating has only been determined when the insulation is secured to the decking.
3A. **Loose Fill Material* --** As an alternate to Item 3 -- Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating when loose fill material is used has not been determined.
4 **Air Duct* --** Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
5 **Ceiling Damper* --** Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS --Model RD-521 **POTTORFF --**Model CFD-521
5A. **Alternate Ceiling Damper* --** Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 24 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 196 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS --Model RD-521-BT **POTTORFF --**Model CFD-521-BT.
6. **Furring Channels --** Resilient channels, nom. 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.
6A. **Steel Framing Members --** (Not Shown)* -- As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. **Furring Channels --** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum wallboard ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum wallboard ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to joists as described in Item
b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. **Steel Framing Members --** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC and secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 7.
PAC INTERNATIONAL INC --Type RSIC-1.
7. **Gypsum Board* --** One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane.
When **Steel Framing Members*** (Item 6A) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Wallboard screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum wallboard ceiling membrane. Wallboard butt joints shall be staggered min. 2 ft. within the assembly, and occur between the main furring channels. At the wallboard butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one RSIC-1 clip at each end of the channel. Screw spacing along the butt joint to attach the wallboard to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum wallboard ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.
CANADIAN GYPSUM COMPANY --Types C, IP-X2, IPC-AR. **UNITED STATES GYPSUM CO --**Types C, IP-X2, IPC-AR. **USG MEXICO S ADE C V --**Types C, IP-X2, IPC-AR.
8. **Finishing System --** (Not Shown) -- Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard. **Alternate Ceiling Membrane --** Not Shown.
9. **Steel Framing Members --**
a. **Main runners --** Installed perpendicular to Structural Steel Members -- Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC.
b. **Cross tees or channels --** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted wallboard end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
c. **Wall angles or channels --** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard -- Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel witha1by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INTERIORS, DIV OF CGC INC -- Type DGL or RX. **USG INTERIORS INC --** Type DGL or RX.
10. **Gypsum Board* --** For use with Steel Framing Members (Item 9) when Batts and Blankets* (Item 6) are not used -One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Wallboard fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each wallboard side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent wallboard sheets shall be staggered not less than 32 in. Wallboard sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7.For use with **Steel Framing Members*** (Item 9) when **Batts and Blankets*** (Item 6) are used -Ratings limited to 1 Hour -5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel wallboard screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long wallboard screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC. **CANADIAN GYPSUM COMPANY --** Type C or IP-X2. **UNITED STATES GYPSUM CO --** Type C or IP-X2. **USG MEXICO S A DE C V --** Type C or IP-X2.
*Bearing the UL Classification Mark

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

UL Details

Phase
Construction Documents

Project No.	14-081	Sheet No.	T003
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

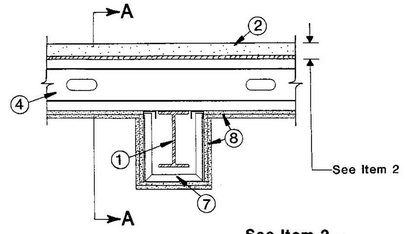
Review

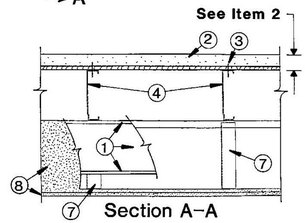
Holiday Inn Express & Suites

3/2/2015 5:16:55 AM

DESIGN NO. L524

Unrestrained Assembly Rating—1Hr. Unrestrained Beam Rating—1Hr.





Section A–A

1. **Steel Beam —** W8x15, min size.
2. **Flooring Systems —** The finish flooring, vapor barrier and subflooring may consist of any of the following systems.

System No. 1 Finish Flooring — Min. nom 19/32 in. thick wood structural panels, min grade ''Underlayment'' or ''Single Floor''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. Long edges to be T&G.
System No. 2 Finish Flooring — Min. nom 19/32 in. thick wood structural panels, min grade ''Underlayment'' or ''Single Floor''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. Long edges to be T&G. **Vapor Barrier** — Commercial rosin-sized building paper, 0.010 in. thick. **Subflooring** — Min nom 15/32 in. thick plywood or 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 3 Finish Flooring — Floor Topping Mixture* — Compressive strength 1500 psi min, thickness to be 1 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO —Levelrock 2500, Levelrock RH **Vapor Barrier — (Optional) —** Commercial asphalt saturated felt,
0.030 in. thick. **Subflooring** — Min nom 15/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Type USG Sound Mat **Alternate Floor Mat Materials* —** (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board
System No. 4 Finish Flooring — Floor Topping Mixture* — 10-13 gal. of water to 170 lbs. of floor topping mixture to 595 lbs. of sand. Compressive strength 900 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick subflooring and 1 in. min when used with 15/32 in. thick subflooring.
ORTECRETE CORP —Type II. **Subflooring** — Min nom 15/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 5 Finish Flooring — Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Port-land cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 100 plus or minus 5 pcf. Min compressive strength 1000 psi. Thickness 1-1/2 in.
ELASTIZELL CORP OF AMERICA —Type FF. **Vapor Barrier** — (Optional)— Min nom 19/32 in. thick wood structural panels min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 6 Finish Flooring — Floor Topping Mixture* — 6.8 gal of water to 80 lbs bag of floor topping mixture to 1.9 cu ft of sand. Compressive strength to be 1100 psi min. Thickness to be 3/4 in. min.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant.
Floor Mat Materials* — (Optional)— Floor mat material nom 1/4 in. thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.
HACKER INDUSTRIES INC —Type Sound-Mat. **Vapor Barrier** — (Optional) Commercial asphalt saturated felt 0.030 in. thick. **Subflooring** — Min nom 19/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 7 Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a foam nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Portland Cement,
62.5 lb of Pea Gravel and 312.5 lbs of sand, with approximately 5.5 gal of water. Cast density of Floor Topping Mixture 100 (+ or -) 5 pcf. Min compressive strength 1000 psi. Thickness 1 in.
LITE-CRETE INC —Type I. **Vapor Barrier — (Optional) —** Commercial asphalt saturated felt,
0.030 in. thick. **Subflooring** — Min nom 15/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 8 Finish Flooring — Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a nozzle. Mix 94 lbs cement, 300 lbs sand, approximately 5.4 gal water,
1.2 cu ft preformed foam, 5 oz Type N fiber and 4 oz Component Z. Cast density of floor topping mixture shall be 105 (+ or -) 5 pcf with a min compressive strength of 1200 psi. Min thickness shall be 3/4 in.

ELASTIZELL CORP OF AMERICA —Type ZC. **Subflooring** — Min nom 19/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 9 Finish Flooring — Floor Topping Mixture* — 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand. Min compressive strength 1000 psi. Min thickness of 3/4 in.
ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 2000. **Vapor Barrier — (Optional)** — Commercial asphalt saturated felt,
0.030 in. thick. **Subflooring** — Min nom 19/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 10 Finish Flooring — Floor Topping Mixture* — 3 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.0 to 2.1 cu ft of sand. Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick sub-flooring or 1 in. min when used with 15/32 in. thick sub-flooring.
MAXXON CORP —Type D-C, GC, GC2000, L-R or T-F. **Floor Mat Material*** — (Optional)— Floor mat material nom 1/4 in. thick adhered to sub-floor with Maxxon Floor Primer. Primer to be
applied to the surface of the mat prior to lath placement.
MAXXON CORP —Type Acousti-Mat. **Metal lath** — For use with floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat. **Alternate Floor Mat Materials*—(Optional)** —Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.
MAXXON CORP — Type Acousti-Mat II. **Vapor Barrier — (Optional)** — Commercial asphalt saturated felt 0.030 in. thick. **Subflooring** — Min nom 15/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 11 Finish Flooring — Floor Topping Mixture* — 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. Compressive strength to be 1200 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick sub-flooring or 1 in. min when used with 15/32 in. thick sub-flooring.
RAPID FLOOR SYSTEMS —Type RF, RFP or RFU. **Floor Mat Material*** — (Optional)— Floor mat material nom 1/4 in. thick adhered to sub-floor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement.
MAXXON CORP —Type Acousti-Mat. **Metal lath** — For use with floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat. **Alternate Floor Mat Materials*—(Optional)** —Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.
MAXXON CORP — Type Acousti-Mat II. **Vapor Barrier — (Optional)** — Commercial asphalt saturated felt 0.030 in. thick. **Subflooring** — Min nom 15/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 12 Finish Floor — Mineral and Fiber board*, sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft, by min 1/2 in. thick. All joints to be staggered a min of 12 in. OC with adjacent sub-floor joints.
HOMASOTE CO —Type 440-32 Mineral and Fiber Board **Sub-flooring —**1in. by6in.T&G fastened diagonally to joists; or min nom 15/32 in. thick plywood or 7/16 in. oriented strand board (OSB) wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
System No. 13 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi minimum. Thickness to be 1/2 in. minimum when used with 19/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels. Refer to manufacturer's instruc-tions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO —Levelrock 3500, Levelrock
Commercial RH **Vapor Barrier — (Optional) —** Commercial asphalt saturated felt 0.030 in. thick. **Sub-flooring —** 15/32 or 19/32 in. thick wood structural panels min grade ''C-D'' or ''Sheathing''. Face grain of plywood to be perpendicu-lar to joists with joints staggered.
Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO —Type USG Sound Mat **Alternate Floor Mat Materials* —** (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board
System No. 14 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Thickness to be 1/2 in. minimum when used with 19/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels. Refer to manufacturer's instruc-tions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO —Levelrock 4500

Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick. **Sub-flooring —** 15/32 or 19/32 in. thick wood structural panels min grade ''C-D'' or ''Sheathing''. Face grain of plywood to be perpendicu-lar to joists with joints staggered.
Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Type USG Sound Mat **Alternate Floor Mat Materials* —** (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board
System No. 15 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Thickness to be 3/4 in. minimum when used with 19/32 in. thick wood structural panels; or 1 in. when used with 15/32 in. thick wood structural panels. Refer to manufacturer's instruc-tions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO —Levelrock SLC **Vapor Barrier — (Optional) —** Commercial asphalt saturated felt 0.030 in. thick. **Sub-flooring —** 15/32 or 19/32 in. thick wood structural panels min grade ''C-D'' or ''Sheathing''. Face grain of plywood to be perpendicu-lar to joists with joints staggered.
Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO —Type USG Sound Mat **Alternate Floor Mat Materials* —** (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.
UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board
System No. 16 Finish Flooring—Floor Topping Mixture* — Foam concentrate mixed
40:1 by volume with water and expanded at 100 psi through nozzle. Mix a rate of 1.2 cu ft of preformed foam to 94 lbs Type I Portland cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 100 plus or minus 5 pcf. Min compressive strength of 1000 psi. Thickness 1-1/2 in.
CELLULAR CONCRETE L L C Vapor barrier — (Optional) — Commercial asphalt saturated felt,
0.030 in. thick. **Subflooring** — 15/32 or 19/32 in. thick wood structural panels, min grade ''C-D'' or ''Sheathing''. Face grain of plywood to be perpendicu-lar to joists with joints staggered.
1. **Flooring Fasteners —** The subflooring (first layer) of each floor system or finish flooring (System No. 1) is to be fastened to the steel joists with Type S12 by 1-15/16 in. long self-drilling, pilot point, steel screws. The screws are to be spaced 6 in. OC around the perimeter of the floor and at all end (butt) joints of the subflooring panels. Spacing in the field to be 10 in. OC. For flooring system No. 2, the finish flooring is to be fastened to the subflooring with Type S12 by 2 in. long steel screws spaced 6 in. OC around the perimeter of the floor and at all end (butt) joints of the finish flooring panels. Spacing in the field to be 10 in. OC with rows of screws spaced 16 in. OC.
2. **Steel Joists —** The joists are channel-shaped, 7 in. min depth with 1-5/8 in. min width flanges and 1/2 in. long stiffening flanges. The joists are fabricated from min of No. 18 MSG, galv steel. Min yield strength of steel is either 33,000 or 40,000 psi with corresponding max working stress of 20,000 and 24,000 psi. Joists spaced max 24 in. OC. At joist splices bearing on supports, joists are overlapped a min of 3 in.
3. **Joist Stiffeners —** (Not shown.) Min No. 18 MSG, galv steel. Stiffeners are channel-shaped, 6-13/16 in. long, 3-1/2 in. deep with 1-5/8 in. flanges and 1/2 in. stiffening flanges. The joists stiffeners are used at all bearing locations of the joists.
4. **Joist Bridging —** (Not shown.) — Installed immediately after joists are erected and before construction loads are applied. The bridging consist-ing of cut to length joist section is placed between outer supports, adja-cent to openings and at mid span with 8 ft. O.C. max spacing. Bridging channels are screw-attached at each end to joist webs using angle clips. V-bracing of 1-1/2 in. by 20-gal galvanized steel is screw-attached to bottom joist flange between bridging channels.
5. **Beam Cage —** The cage used to support the gypsum wallboard beam protection is fabricated from No. 24 MSG, electrogalvanized steel angle with 7/8 by 1-3/8 in. legs and No. 25 MSG, electrogalvanized steel channel studs, 2-1/2 in. wide with 1 in. legs. Angles are fastened to the steel joists using 1/2 in. pan head steel sheet metal screws.
8. **Gypsum Board* — For Ceiling —** Two layers of 1/2 in. thick sheets installed with long dimensions perpendicular to joists. Inner layer attached to steel joists using 1 in. long, Type S12 bugle head steel screws spaced 8 in. O.C. at the butt joints located 1/2 in. from the edges and spaced 12 in. O.C. in the field. Butt joints to occur over joists. Outer layer attached to assembly using 1-1/2 in. long, Type G bugle head steel screws at the butt joints, spaced 8 in. O.C. and located 3/4 in. from the edge, and in the field with 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. O.C. along the joists. Butt joints of outer layer to occur between joists. Edge joints to be staggered from inner layer. **For Beam —** Two layers of 1/2 in. gypsum wallboard, inner layer fas-tened to beam cage using 1 in. long, Type S12 bugle head steel screws spaced 12 in. OC and outer layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered.
AMERICAN GYPSUM CO —Types AG-C, AGX-C. **BPB AMERICA INC** —Type FRPC, ProRoc Type C. **BPB CANADA INC** — ProRoc Type C. **CANADIAN GYPSUM COMPANY** —Type C. **G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP** —Type 5. **LAFARGE NORTH AMERICA INC** —Types LGFC-C, LGFC-
C/A. **NATIONAL GYPSUM CO** —Types FSK-C, FSW-C. **PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC** —Type PG-C. **STANDARD GYPSUM L L C** —Type SG-C. **TEMPLE-INLAND FOREST PRODUCTS CORP** —Type TG-C. **UNITED STATES GYPSUM CO** —Type C. **USG MEXICO S A DE C V** —Type C.
ALTERNATE CEILING MEMBRANE — Not Shown.
9. **Hanger Wire —** For use with Item 10 -No. 12 SWG galv steel wire secured to steel joists spaced a max 48 in. OC.
10. **Steel Framing Members —** To be installed below the bottom flange of the steel beam.
a. **Main runners —** Installed perpendicular to Structural Steel Members, -Nom 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC.
b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted wallboard end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard -Painted or galvanized steel angles with 1 in. legs or channels with 1 in. legs and 1-9/16 in. deep, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INTERIORS, DIV OF CGC INC — Type DGL or RX. **USG INTERIORS INC** — Type DGL or RX.
11. **Gypsum Board* —** For use with Steel Framing Members (Item 10) -Two layers of nominal 1/2 in. thick by 48 in. wide boards. Inner layer installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Inner layer fastened to cross tees with 1-1/4 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. End joints of adjacent wallboard sheets shall be staggered not less than 4 ft OC. Outer layer attached to the cross tees through inner layer using 1-7/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints to be centered along cross tees and be offset a min of 32 in. from end joints of inner layer. Rows of screws on both sides of butted end joints of each layer shall be located 3/8 to 1/2 in. from end joints. Butted side joints of outer layer to be offset a min of 18 in. from butted side joints of inner layer.
CANADIAN GYPSUM COMPANY — Type C. **UNITED STATES GYPSUM CO** — Type C. **USG MEXICO S A DE C V** — Type C.
*Bearing the UL Classification Mark

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Charlotte, NC 28208
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Email: asoler@allied-engineers.com

REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH K. MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
UL Details

Phase
Construction Documents

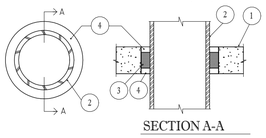
Project No.	14-081	Sheet No.	T004
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:16:57 AM

SYSTEM NO. CAJ1015
(FORMERLY SYSTEM NO. 143)
F RATING– 2 HR.
T RATING– 0 HR.
L RATING AT AMBIENT–LESS THAN 1 CFM /sq. ft. (SEE ITEM 4)
L RATING AT 400 F–LESS THAN 1 CFM/ sq. ft. (SEE ITEM 4)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN.2–1/2 in. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK*. MAX. DIAM. OF OPENING IS 6 in. .

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH PENETRANTS– ONE METALLIC PIPE. , CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM. ANNULAR SPACE OF 3/4 in. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE NOM. 4 in. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

B. CONDUIT NOM. 4 in. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

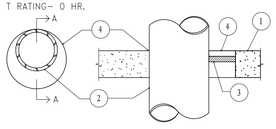
PACKING MATERIAL– MIN 1–1/2 in. THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF FLOOR OR WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL

4. FILL, VOID OR CAVITY MATERIAL*–SEALANT –MIN. 1/2 in. THICKNESS OF FILL MATERIAL TO BE APPLIED AT BOTH SURFACES OF FLOOR OR WALL ASSEMBLY.

MINNESOTA MINING & MFG. CO.– TYPES FB–2000 , FB–2000+ ,FB–2003 (TOP SURFACE OF FLOORS ONLY). (NOTE: L RATINGS APPLY WHEN FB–2000+ IS USED)

* BEARING THE UL CLASSSIFICATION MARKING

SYSTEM NO. CAJ1001
(FORMERLY SYSTEM NO. 49)
F RATING– 3 HR.
T RATING– 0 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN 4–1/2 in THICK LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM. OF CIRCULAR THROUGH OPENING IS 22–1/2"IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANFACTURERS.

1A. STEEL SLEEVE – (OPTIONAL, NOT SHOWN)– NOM 12 in. DIAM. (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 in. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

2. PIPE OR CONDUIT –NOM. 20 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 in. DIAM. (OR SMALLER) RIGID STEEL CONDUIT OR TYPE L (OR HEAVIER) COPPER TUBE, NOM 4 in. DIAM. (OR SMALLER) CAST IRON PIPE OR STEEL EMT. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING . MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2–1/2 in. MIN. ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS ZERO IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. PACKING MATERIAL– POLYETHYLENE BACKER ROD OR NOM 1 in. THICKNESS OF TIGHTLY–PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL–WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 in. DIAM. AND WHEN MAX ANNULAR SPACE IS 1 in. A MIN. 1 in. THICKNESS OF TIGHTLY–PACKED CERAMIC FIBER BLANKET OR MINERAL–WOOL BATT PACKING MATERIAL MAY BE RECESSED MIN 1/2 in. FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF WALL.

4. FILL, VOID OR CAVITY MATERIALS–CAULK– APPLIED TO FILL ANNULAR SPACE TO THE MIN. THICKNESS SHOWN IN THE FOLLOWING TABLE:

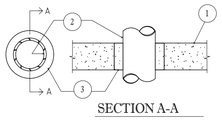
MAX. PIPE DIAM. IN.	MAX ANNULAR SPACE IN	PACKING MATERIAL TYPE (a)	MIN CALUK THKNS IN
10	1	BR, CF, GF OR MW	1/2 (b)
10	1	CF OR MW	1/2 (C)
20	2–1/2	BR, CF, GF OR MW	1 (b)

(a) BR= POLYETHYLENE BACKER ROD
CF= CERAMIC FIBER BLANKET.
GF= GLASS FIBER INSULATION
MW= MINERAL–WOOL BATT

(b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL
(C) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF WALL

MINNESOTA MINING & MFG. CO.– –TYPE CP 25 N/S
*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. CAJ1041
(FORMERLY SYSTEM NO. 283)
F RATING– 2 HR.
T RATING– 0 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN. 3–1/4 in. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK*. MAX. DIAM. OF OPENING 6 in. .

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANFACTURERS.

2. THROUGH PENETRANTS– ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM. ANNULAR SPACE OF 3/4 in. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE NOM. 4 in. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

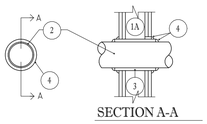
B. CONDUIT NOM. 4 in. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

3. FILL, VOID OR CAVITY MATERIAL*–PUTTY –MIN. 3–1/4 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL.

NELSON FIRESTOP PRODUCTS– TYPE FSP PUTTY

*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. WL2082
F RATING– 1 AND 2 HR. (SEE ITEM 1)
T RATING– 1 HR.



SECTION A-A

1. WALL ASSEMBLY– THE 1 OR 2 H FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED 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. WALLBOARD, GYPSUM* – ONE OR TWO LAYERS OF NOM 1/2 OR 5/8 IN. THICK GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. 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 TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:

A. POLYVINYL CHLORIDE (PVC) PIPE – NOM 2 AND 3 IN. DIAM. SCHEDULE 40 PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.

B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 AND 3 IN. DIAM. SDR17 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEM.

3. FIRESTOP DEVICE – GALV. STEEL COLLAR LINED WITH INTUMESCENT WRAP STRIPS SIZED TO FIT THE SPECIFIC DIAM. OF THE THROUGH–PENETRANT. PRIOR TO THE INSTALLATION OF THE DEVICE INTO THE OPENING, THE GYPSUM WALLBOARD IS TO BE NOTCHED ON ONE SIDE OF WALL TO ALLOW THE INSERTION OF THE DEVICE WITH THE HOSE CLAMP INTO THE OPENING. NOTCHED OPENING TO BE COMPLETELY FILLED WITH FILL, VOID OR CAVITY MATERIAL (ITEM 4). DEVICE SHALL BE INSTALLED AROUND THROUGH–PENETRANT IN ACCORDANCE WITH ACCOMPANYING INSTALLATION INSTRUCTIONS. THE DEVICE SIZE, DIAM. OF OPENING IN WALL AND ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING IS DEPENDENT UPON THE PIPE DIAM. AS SHOWN IN THE FOLLOWING TABLE:

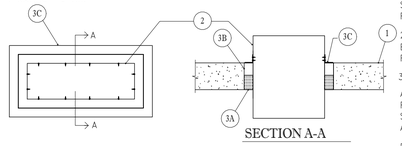
MAX. PIPE DIAM. (IN.)	DEVICE SIZE	DIAM. OF OPENING (IN.)	ANNULAR SPACE
2	TS2	3–1/2	
3	TS3	4–3/4	9/16
			5/8

TREMCO INC. – FYRE–CAN SLEEVE
THE FIRE CAN MANUFACTURING CO., INC. – FYRE–CAN SLEEVE

4. FILL, VOID OR CAVITY MATERIAL* – CAULK – MIN. 1/4 IN. BEAD OF FILL MATERIAL TO BE APPLIED AT THE INTERFACE OF THE GYPSUM WALL AND FIRESTOP DEVICE AND AT THE INTERFACE OF THE PIPE AND FIRESTOP DEVICE. ADDITIONAL FILL MATERIAL TO BE APPLIED TO FILL THE NOTCH CREATED FOR THE HOSE CLAMP TO THE FULL DEPTH OF THE WALLBOARD.
TREMCO INC. – TREMSTOP WBM

*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. CAJ7010
F RATING– 2 HR.
T RATING– 0 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN.4–1/2 in. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE.FLOOR OR MIN. 6 in. THICK REIFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 325 sq.in. WITH MAX DIMENSIONS OF 25 in.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANFACTURERS.

2. STEEL DUCT– NOM 24 BY 12 in. (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) STEEL DUCT. ONE DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM WITH A NOM. 1/2 in. ANNULAR SPACE. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FIRESTOP SYSTEM– THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

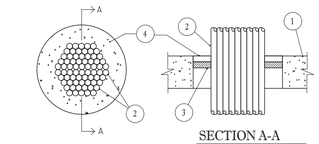
A. PACKING MATERIAL– MIN 3 in.THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AND FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL*–PUTTY –MIN. 1–1/2 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

C. STEEL ANGLE– MIN. 1–1/2 in. WIDE BY 1–1/2in. HIGH BY 0.030 in. (NO. 22 MSG) THICK GALV. STEEL ANGLES CUT TO FIT THE CONTOUR OF THE DUCT WITH A 1 in. LAP ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. LEGS OF ANGLES SECURED TO DUCT WITH MIN. NO. 12 SHEET METAL SCREWS , SPACED A MAX 4 in. oc.

*BEARING THE UL CLASSIFICATION MAKING

SYSTEM NO. CAJ3021
(FORMERLY SYSTEM NO. 240)
F RATING– 2 HR.
T RATING– 0 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN.4–1/2 in. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK*. MAX. DIAM. OF OPENING IS 6–1/4 in. .

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANFACTURERS.

1A. STEEL SLEEVE – (OPTIONAL, NOT SHOWN)– NOM 4 in. DIAM. (OR SAMLLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO FLOOR OR WALL ASSEMBLY. SLEEVE TO BE FLUSH WITH FLOOR OR WALL SURFACES.

2. CABLES– MIN. 12 PERCENT TO MAX 40 PERCENT FILL AREA PER MAX 4 in. DIAM. STEEL SLEEVED THROUGH OPENING . MIN. 20 PERCENT TO MAX 40 PERCENT FILL AREA PER MAX 6–1/4 in. DIAM. UNSLEEVED THROUGH OPENING. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF CABLE MAY BE USED:

A. MAX. NO. 12 AWG MULTIPLE COPPER CONDUCTOR POWER & CONTROL CABLES WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET MATERIALS.

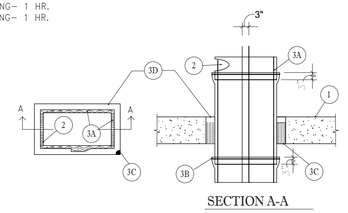
B. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIAM. OF 3/4in. .

C. MAX 150 PAIR NO. 24 AWG COPPER CONDUCTOR TELEPHONE CABLES PVC INSULATION AND JACKET MATERIALS

3. PACKING MATERIAL– NOM. 1 in. THICKNESS OF CERAMIC (ALUMINUM SILICA) FIBER BLANKET OR MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM.
PACKING MATERIAL TO BE RECESSED MIN. 1 in. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

4. FILL, VOID , OR CAVITY MATERIALS*–PUTTY– MOLDABLE PUTTY MATERIAL KNEADED BY HAND AND APPLIED TO FILL ANNULAR SPACE (AND INTERSTICES BETWEEN CABLES TO MAX EXTENT POSSIBLE) TO A MIN. DEPTH OF 1 in. FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTY DEPTH TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.
MINNESOTA MINING & MFG. CO.– TYPE MPS–2 +
*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. CAJ7013
F RATING– 1 HR.
T RATING– 1 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN.4–1/2 in. THICK REINFORCED NORMAL WEIGHT (140–150 PCF) CONCRETE. FLOOR OR MIN. 4–3/4 in. THICK REIFORCED NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 3069 sq.in. WITH A MAX. DIMENSION OF 93 in.

2. STEEL DUCT– MIN. 0.021 in. THICK STEEL DUCT HAVING A MAX PERIMETER DIMENSION OF 216 in. AND A MAX INDIVIDUAL DIMENSION OF 84 in. . ONE DUCT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. IN ADDITION , FOR DUCTS WITH ANY DIMENSION GREATER THAN 39 in. A 1–1/2in. BY 1–1/2in. by 1/8in. THICK TRANSVERSE STIFFENING ANGLE APPROXIMATELY 2 in. LESS IN LENGTH THAN THE MAX. DIMENSION SHALL BE SCREW ATTACHED 8 in. O.C. TO THE DUCT, 3in. BEYOND THE TOP SURFACE OF THE FLOOR AND BOTH SURFACES OF THE WALL.

3. FIRESTOP SYSTEM– THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. DUCT WRAP MATERIALS.* NOM 1–1/2 in. THICK, 6 PCF REFRACTORY CERAMIC BLANKET TOTALLY ENCAPSULATED WITHIN FOIL–SCRIM FACERS. THE STEEL DUCT SHALL BE WRAPPED WITH ONE LAYER OF DUCT WRAP INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLTION INSTRUCTIONS, MAINTAINING MIN. 3 in. TRANSVERSE AND LONGITUDINAL OVERLAPS. ALL CUT EDGES AND ENDS SHALL BE SEALED WITH 3 in. WIDE PRESSURE SENSITIVE ALUMINUM FOIL TAPE. A NOMINAL ANNULAR SPACE OF 3 in. IS REQUIRED BETWEEN THE INSULATED DUCT AND THE PERIPHERY OF THE OPENING.

*MINNESOTA MINING & MFG. CO.– FIREMASTER DUCT WRAP

B. STEEL BANDING STRAPS– 1/2in. WIDE BY 0.015 in. THICK CARBON STEEL BANDING STRAPS USED IN CONJUNCTION WITH 1/2in. WIDE BY 1 in. LONG STAINLESS STEEL CRIMP CLIPS. BANDING STRAPS SPACED A MAX 12 in. OC AND 3 in. FROM TRANSVERSE JOINTS OF DUCT WRAP.

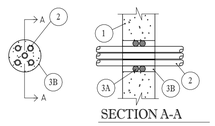
C. PACKING MATERIAL– MIN. 4–1/4 in. THICKNESS OF UNFACED SCRAP DUCT WRAP MATERIAL OR 3 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATEIAL.

D. FILL, VOID OR CAVITY MATERIAL*–CAULK –MIN. 1/4in. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.

*MINNESOTA MINING & MFG. CO.– FB–2000+

*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. CAJ1036
(FORMERLY SYSTEM NO. 270)
F RATING– 2 HR.
T RATING– 1–1/2 HR.



SECTION A-A

1. FLOOR OR WALL ASSEMBLY– MIN.4–1/2 in. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAM. OF OPENING IS 8 in. .

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANFACTURERS.

2. METALLIC PIPES– NOM. 1 in. DIAM. (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE. A MAX OF FIVE PIPES TO BE INSTALLED WITHIN THE OPENING. THE SPACE BETWEEN PIPES SHALL BE MIN. 1/2 in. THE SPACE BETWEEN PIPES AND PERIPHERY OF OPENING SHALL BE 1/2 in. MAX 3–1/2 in. PIPES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FIRESTOP SYSTEM– THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL– MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
AS AN OPTION TO THE ABOVE, BACKER ROD AND/OR FOAMED PLASTIC BACKER MATERIAL MAY BE USED.

B. FILL, VOID OR CAVITY MATERIAL*–CAULK –MIN. 1–1/4 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.– METACAULK 950
*BEARING THE UL CLASSSIFICATION MARKING

MISHRA
ARCHITECTURE PLLC
6800 S Creek Rd, Charlotte, NC 28277
Ph: (704) 625-6554 Fax: (704) 919-5822
EMAIL:ashish@mishraarch.com
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STRUCTURAL:
WGPM, Inc.
11220 Elm Lane, Suite 201
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Phone: (704) 542-7199
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Email: lwright@wgpminc.com

MEP:
Allied Consulting Engineers
2905-D Queen City Drive
Charlotte, NC 28208
Phone: (704) 399-3943
Email: asoler@allied-engineers.com

REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
UL Details

Phase
Construction Documents

Project No.	14-081	Sheet No.	T005
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:16:59 AM

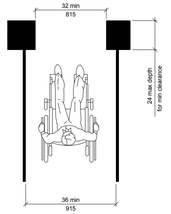


Fig. 1
Minimum Clear Width
for Single Wheelchair

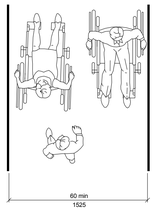
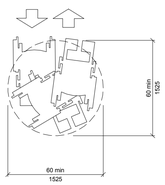
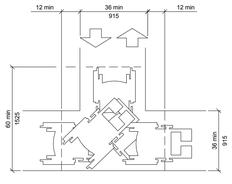


Fig. 2
Minimum Clear Width
for Two Wheelchairs

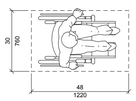


(a)
60-in(1525-mm)-Diameter Space

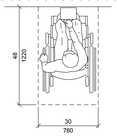


(b)
T-Shaped Space for 180° Turns

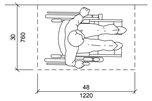
Fig. 3
Wheelchair Turning Space



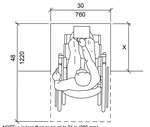
(a)
Clear Floor space

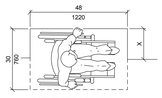


(b)
Forward approach

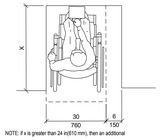


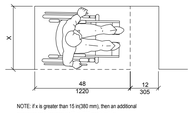
(c)
Parallel Approach





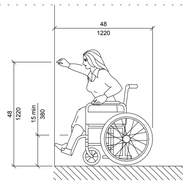
(d)
Clear Floor Space In Alcoves



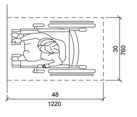


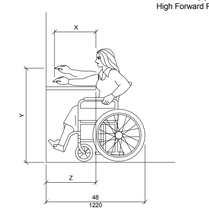
(e)
Additional Maneuvering Clearance for Alcoves

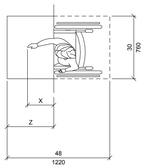
Fig. 4
Minimum Clear Floor Space for Wheelchairs



(a)
High Forward Reach Limit







NOTE: x shall be less than or equal to 25 in(635 mm); z shall be greater than or equal to x. When x is less than 20in (510 mm), then y shall be 48 in(1220 mm) maximum. When x is 20 to 25in(510 to 635mm), then y shall be 44 in (1120 mm) maximum.

(b)
Maximum forward Reach over an obstruction

Fig. 5
Forward Reach

MANEUVERING SPACE & REACH REQUIREMENTS

4.10. Elevators.

4.10.1 General. Accessible elevators shall be on an accessible route and shall comply with 4.10 and with ASME A 17.1 1990, Safety Code for Elevators and escalators. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used as combination passenger and freight elevators for the public and employees.

4.10.2 Automatic Operation. Elevator operation shall be automatic. Each car shall be equipped with a self-leveling feature that will automatically bring the car to floor landings within a tolerance of 1/2 in (13 mm) under rated loading to zero loading conditions. This self-leveling feature shall be automatic and independent of the operating device and shall correct the overtravel or undertravel.

4.10.3 Hall Call Buttons. Call buttons in elevator lobbies and halls shall be centered at 42 in (1065 mm) above the floor. Such call buttons shall have visual signals to indicate when each call is registered and when each call is answered. Call buttons shall be a minimum of 3/4 in (19 mm) in the smallest dimension. The button designating the up direction shall be on top. (see fig. 20) Buttons shall be raised or flush. Objects mounted beneath hall call buttons shall not project into the elevator lobby more than 4 in (100 mm).

4.10.4 Hall Lanterns. A visible and audible signal shall sound once for the top direction and twice for the down direction or shall have verbal announcers say up or down. Visible signs shall have the following features.

(1) Hall lantern fixtures shall be mounted so that their centerline is at least 72 in (1830 mm) above the lobby floor (see fig 20).

(2) Visual elements shall be at least 2 1/2 in (54 mm) in the smallest dimension.

(3) Signals shall be visible from the vicinity of the hall call button (see fig. 20). In-car lanterns located in cars, visible from the vicinity of hall call buttons, and conforming to the above requirements, shall be acceptable.

4.10.5 Raised and Braille Characters on Hoistway Entrances. All elevator hoistway entrances shall have raised and Braille floor designations provided on both jambs. The centerline of the characters shall be 60" (1525 mm) above finish floor. Such Characters shall be 2" (50 mm) high and shall comply with 4.30.4. Permanently applied plates are acceptable if they are permanently fixed to the jambs. (see fig. 20).

4.10.6 Door Protective And Reopening Device. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person. The device shall be capable of completing these operations without requiring contact for an obstruction passing through the opening at heights of 5 in and 29 in (125 mm and 735 mm) above finish floor (see fig. 20). Door reopening devices shall remain effective for at least 20 seconds. After such an interval, doors may close in accordance with the requirements of ASME A17.1-1990.

4.10.7* Door and Signal Timing for Hall Calls. The minimum acceptable time from notification that a car is answering until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(445 mm/s)

where T = total time in seconds and D = Distance (in feet or mm) from a point in the lobby or corridor 60" (1525 mm) directly in front of the farthest call button controlling that car to the centerline o fits hoistway door (see fig. 21). For cars with in-car lanterns, T begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded. The minimum acceptable notification time shall be 5 seconds.

4.10.8 Door Delay for Car Calls. The minimum time for elevator doors to remain fully open in response to a car call shall be 3 seconds.

4.10.9 Floor Plan of Elevator Cars. The floor area of elevator cars shall provide space for wheelchair users to enter the car, maneuver with in reach of controls, and exit from the car. Acceptable door opening and inside dimensions shall be as shown in Fig 22. The clearance between the car platform sill and the edge of any hoistway landing shall be no greater than 1 1/4"(32mm).

4.10.10 Floor Surfaces. Floor surfaces comply with 4.5.

4.10.11 Illumination Levels. The level of illumination at the car controls, platform, and car threshold and landing sill shall be at least 5 footcandles (53.8 lux.)

4.10.12* Car Controls. Elevator control panels shall have the following features:

(1) Buttons. All control buttons shall be at least 3/4"(19mm) in their smallest dimension. They shall be raised or flush.

(2) Tactile. Braille, and visual control Indicators. All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, Arabic characters for numerals, or standard symbols as shown in fig.23 (a), and as required in ASME A 17.1-1990. Raised and Braille characters and symbols shall comply with 4.30. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation (see Fig.23 (a)). All raised designations for control buttons shall be placed immediately to the left of the button to which they apply. Applied plates, permanently attached, are an acceptable means to provide raised control designations. Floor buttons shall be provided with visual indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.

(3) Height. All floor buttons shall be no higher than 54" (1370mm) above the finish floor for side approach and 48" (1220mm) for front approach. Emergency controls, including the emergency alarm and emergency stop, shall be grouped at the bottom of the panel and shall have their centerlines no less than 35"(890mm) above the finish floor (see fig.23 (a) and (b)).

(4) Location. Controls shall be located on a front wall if cars have center opening doors, and at the side wall or at the front wall next to the door if cars have side opening doors (see fig.23 (c) and (d)).

4.10.13* Car Position Indicators. In elevator cars, a visual car position indicator shall be provided above the car control panel or over the door to show the position of the elevator in the hoistway. As the car passes or stops at a floor served by the elevators the corresponding numerals shall illuminate, and an audible signal shall sound. Numerals shall be a minimum of 1/2"(13mm) high. The audible signal shall be no less than 20 decibels with a frequency no higher than 1500Hz. An automatic verbal announcement of the floor number at which a car stops or which a car passes may be substituted for the audible signal.

4.10.14* Emergency Communications. If provided, emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME A17.1-1990. The highest operable part of a two-way communication system shall be a maximum of 48"(1220mm) from the floor of the car. It shall be identified by a raised symbol and lettering complying with 4.30 and located adjacent to the device. If the uses a handset then the length of the cord from the panel to the handset shall be at least 29"(735mm). If the system is located in a closed compartment, the compartment door hardware shall conform to 4.27, Controls and Operating Mechanisms. The emergency intercommunication system shall not require voice communication.

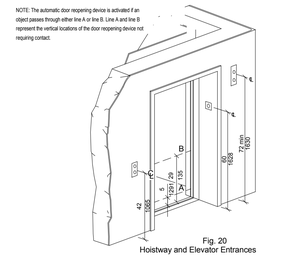


Fig. 20
Hoistway and Elevator Entrances

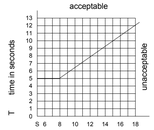
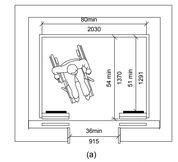
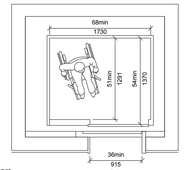


Fig. 21
Graph of Timing Equation

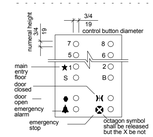


(a)

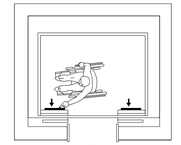


(b)

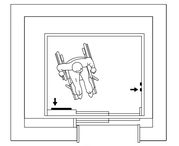
Fig. 22
Minimum Dimensions of Elevator Cars



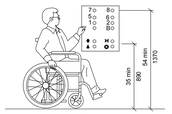
(a)
PAnel Detail



(c)
Alternate Locations of Panel
With Center Opening Door



(d)
Alternate Locations of Panel
With Side Opening Door



(b)
Car Control Height

Fig. 23
Car Controls

ELEVATORS

4.2 Space allowance and Reach Ranges.

4.2.1* Wheelchair Passage Width. The minimum clear width for single wheelchair (815mm) and 36 in.(915 mm) continuously (see fig. 1 and 24 (e)).

4.2.2 Width for Wheelchair Passing. The minimum width for two wheelchairs to pass is 60 in. (1525 mm) (see fig. 2).

4.2.3* Wheelchair turning space. The space required for a wheelchair to make a 180 degree turn is a clear space of 60 in.(1525 mm) diameter (see fig.3 (a)) or a T-shaped space (see fig. 3 (b)).

4.2.4* Clear floor or Ground Space for Wheelchairs.

4.2.4.1 Size and Approach. The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 in. by 48 in.(760mm by 1220 mm)(see fig.4 (a)). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object. (see fig.4 (b) and (c)). Clear floor or ground space for wheelchairs may be part of the knee space required under some objects.

4.2.4.2 Relationship of Maneuvering Clearance to Wheelchair Spaces. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in fig. 4 (d) and (e).

4.2.4.3. Surfaces for Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5.

4.2.5* Forward Reach. If the clear floor space only allows forward approach to an object, the maximum high forward reach allowed shall be 48 in.(1220 mm) see fig.5 (a). The minimum low forward reach is 15 in.(380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in fig. 5(b).

4.2.6* Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 in 91370mm) and the low side reach shall be no less than 9 in.(230 mm) above the floor (fig.6 (a) and (b)). If the side reach is over an obstruction, the reach and clearances shall be as shown in fig.6 (c).

4.3 Accessible Route.

4.3.1* General. All walks, halls, corridors, aisles, skywalks, tunnels, and other spaces that are part of an accessible route shall comply with 4.3.

4.3.2 Location.
(1) At least one accessible route within the boundary of the site shall be provided from public transportation shops, accessible parking, and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve. The accessible route shall, to the maximum extent feasible coincide with the route for the general public.

(2) At least one accessible shall connect accessible buildings, facilities, elements, and spaces that are on the same Site.

(3) At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements and with all accessible dwelling units within the building or facility.

(4) An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.

4.3.3 Width. The minimum clear width of an accessible route shall be 36 in (915 mm) except at doors (see 4.13.5 and 4.13.6). Obstruction, the minimum clear width of the accessible route shall be as shown in fig.7 (a) and (b).

4.3.4 Passing Space. If an accessible route has less than 60 in. 91525mm) clear width, then passing spaces at least 60 in. by 60 in.(1525mm by 1525mm) shall be located at reasonable intervals not to exceed 200 ft. (61 m), A T-intersection of two corridors or walks is an acceptable passing place.

4.3.5 Head Room. Accessible routes shall comply with 4.4.2.

4.3.6 Surface Textures. The surface of an accessible route shall comply with 4.5.

4.3.7 Slope. An accessible route with running slope greater than 1:20 is a ramp and shall comply with 4.8. Nowhere shall the cross slope of an accessible route exceed 1:50.

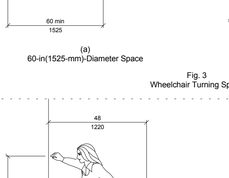
4.3.8 Changes in Levels. Changes in levels along an accessible route shall comply with 4.5.2. If an accessible route has changes in level greater than 1/2"(13mm), then a curb ramp, ramp, elevator, or platform lift (as permitted in 4.1.3 and 4.1.6) shall be provided that complies with 4.7, 4.8, 4.10, or 4.11, respectively. An accessible route does not include stairs, steps, or escalators. See definition of "egress, means of" in 3.5.

4.3.9 Doors. Doors along an accessible route shall comply with 4.13.

4.3.10 Egress. Accessible routes serving any accessible space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance.

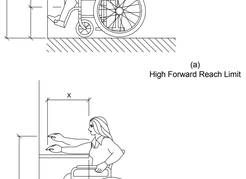
(a)
Clear Floor Space Parallel Approach

(b)
High and Low Side Reach LImits

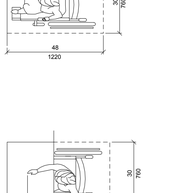


(c)
Maximum Side Reach Over Obstruction

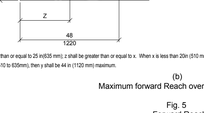
Fig. 6



(a)
90°Turn



(b)
Turns around an Obstruction



(c)
Changes in Level

(d)
changes in level

Fig. 7
Accessible Route

SPACE ALLOWANCES & REACH RANGES

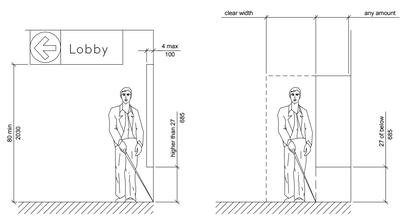


Fig. 8 (a)
Walking Perpendicular to a wall

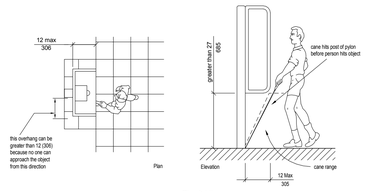


Fig. 8 (d)
Objects Mounted On Posts or Pylons

Fig. 8(b)
Walking Perpendicular to a Wall

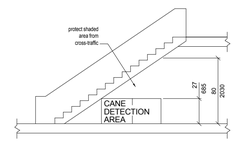


Fig. 8 (c-1) Overhead Hazards

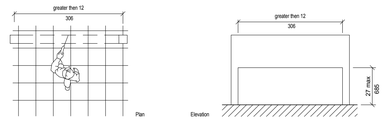


Fig. 8 (c) Free-Standing Overhanging Objects

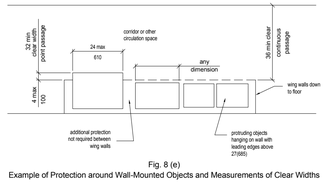


Fig. 8 (e)
Example of Protection around Wall-Mounted Objects and Measurements of Clear Widths

PROTRUDING OBJECTS

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Email: asoler@allied-engineers.com

REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

ADA Details

Phase

Construction Documents

Project No.	14-081	Sheet No.	T006
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

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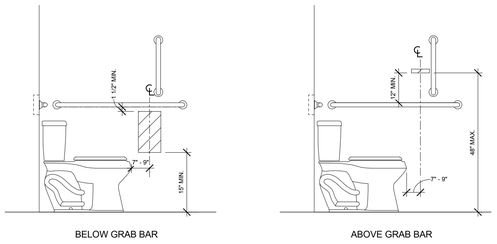
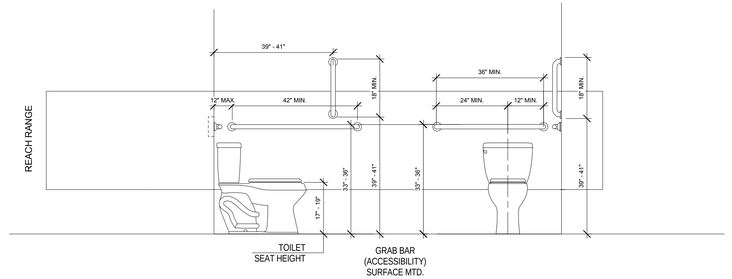


BELOW GRAB BAR ABOVE GRAB BAR

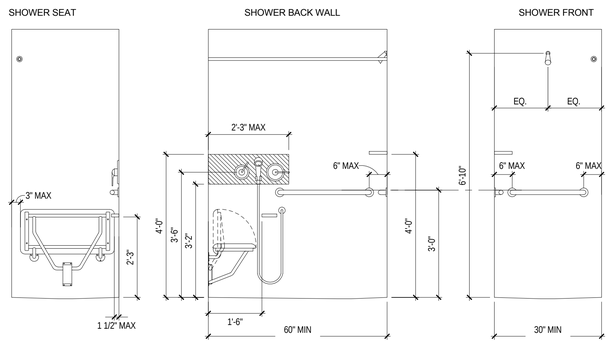
ADA DISPENSERS

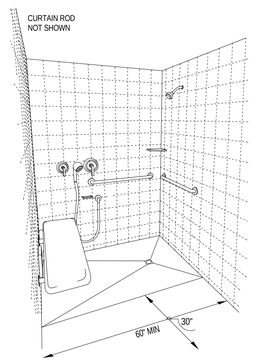
1 ADA Dispensers
1/2" = 1'-0"



ALL EQUIPMENT CONTROLS SHOULD BE WITHIN REACH RANGE

2 ADA Grab Bars
1/2" = 1'-0"

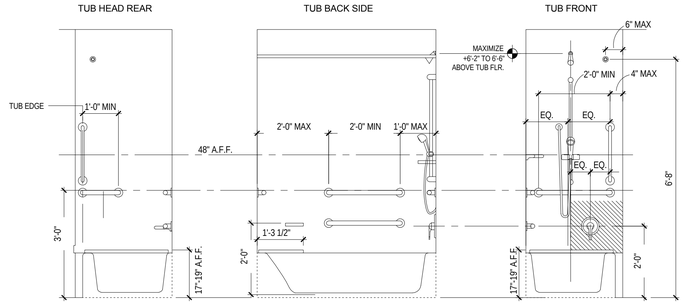


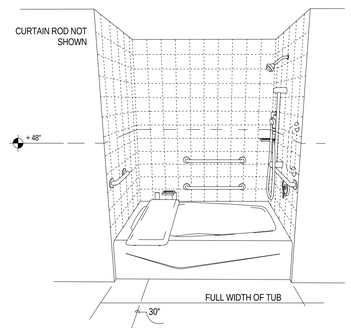


PROVIDE BLOCKING IN WALL AS NECESSARY. ALL GRAB BARS AND SEATS MUST BE BLOCKED/REINFORCED TO WITHSTAND ACCESSIBILITY LOAD LIMITS

SLOPE TILE TO FLOOR DRAIN: SLOPE NOT TO EXCEED 1:48

3 ADA Shower Layout
1/2" = 1'-0"





PROVIDE BLOCKING IN WALL AS NECESSARY. ALL GRAB BARS AND SEATS MUST BE BLOCKED/REINFORCED TO WITHSTAND ACCESSIBILITY LOAD LIMITS

SLOPE TILE TO FLOOR DRAIN: SLOPE NOT TO EXCEED 1:48

4 ADA Tub Layout
1/2" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ADA Details

Phase
Construction Documents

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Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

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Holiday Inn Express & Suites

BUILDING AND BATHROOM ACCESSORY PRODUCT SELECTION SCHEDULE

CH-1; Bobrick B-6707 satin finished stainless steel finished single utility/coat hook.

CH-S; Bobrick B-232x24 satin finished stainless steel finished coat hook strip 24" long with 3 hooks.

CG-1; C-S Group VA-200N Acrovyn 4000 series 1-1/2" corner guard set 4" AFFL or too match room base. Color 933 Mission White.

CG-2: C-S Group VA-200N Acrovyn 4000 series 1-1/2" corner guard set 4" AFFL or too match room base. Color; Danube 233.

CG-3: C-S Group VA-200N Acrovyn 4000 series 1-1/2" corner guard set 4" AFFL or too match room base. Color; Russet #321

CG-4; C-S Group VA-200N Acrovyn 4000 series 1-1/2" corner guard set 4" AFFL or too match room base. Color; Celery #311

DCS; Bobrick KB110-SSWM horizontal surface mounted baby/diaper changing station with satin stainless steel veneer. Color SST/Grey.

FSB; Bobrick B-5181 reversible ADA compliant folding shower bench/seat.

GB; Bobrick B-6806.99 series peened satin stainless steel finished grab bars for accessible toilet and shower stalls, size varies.

MIR FR SH, Bobrick B-292 1830 seried welded satin stainless steel finish framed mirror with 5" shelf, 18" x 30".

MOP-1, Bobrick B-239 satin stainless steel finished mop and broom holder with utility shelf.

PC; Personal Computer or Monitor wall mounting bracket provided by owner.

PTC; Bobrick B-262 classic series satin stainless steel finished surface mounted paper towel cabinet for folded paper.

SDISP, Bobrick B-2111 classic series surface mounted soap dispensers with satin stainless steel finish.

SND, Bobrick B-270 contura series surface mounted satin stainless steel finish sanitary napkin dispenser.

TPH; Bobrick B-6867 classic series surface mounted satin stainless steel finish two roll toilet paper holder.

FIRE PROTECTION PRODUCTS.

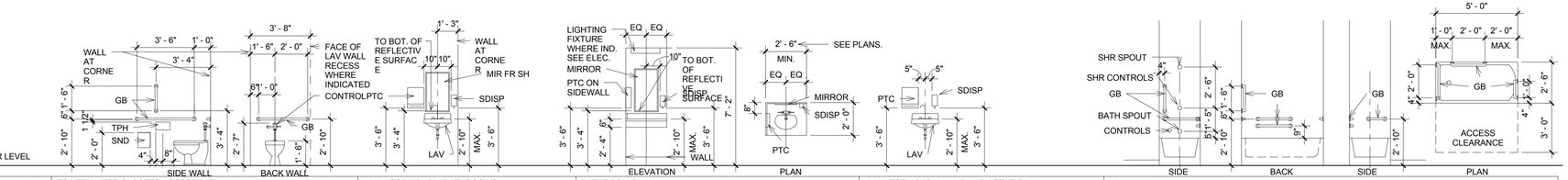
US-1; Bobrick B-298 satin stainless steel finished utility shelf 8" x 24".

FIRE EXTINGUISHER CABINET (FEC)
JL INDUSTRIES AMBASSADOR SERIES SEMI RECESSED CABINET.
STEEL CONSTRUCTION, COLOR WHITE.
TUBE SIZE 10 1/2" X 24" X 5 1/2" WITH 1 1/2" SQUARE EDGE TRIM.
VERTICAL DUO STYLE DOOR WITH SAFETY GLASS AND VERTICAL DOOR PULL.
ETCHED VERTICAL LETTERING ON GLASS PANEL.
1 HOUR FIRE RATED WHERE LOCATED IN 1 HOUR RATED WALLS.
PROVIDE FIRE EXTINGUISHER AS SPECIFIED.

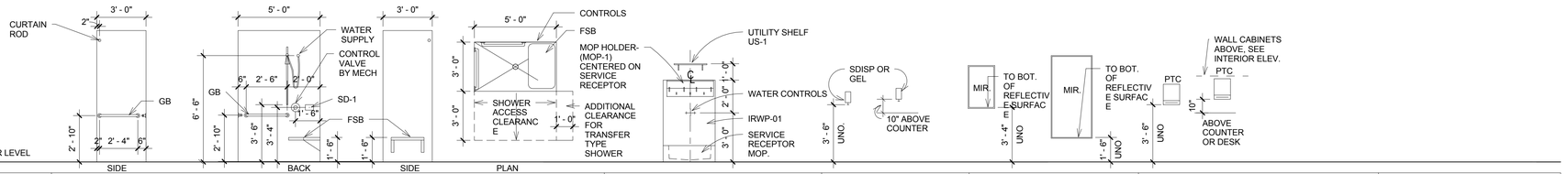
TYPICAL MOUNTING HEIGHT GENERAL NOTES

1. PROVIDE EQUIPMENT, FIXTURE AND FITTING SUPPORT WOOD OR SHEET METAL BLOCKING IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS, TYP. UNO. SEE ALSO TYPICAL PARTITION BLOCKING DETAILS A900.

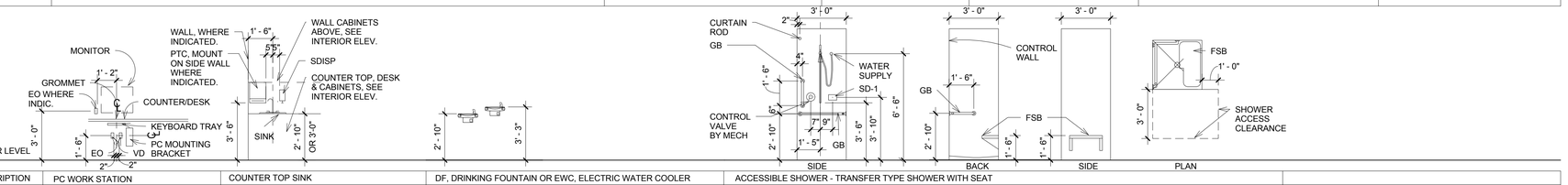
2. REFER TO PLANS AND SPECIFIC ELEVATION FOR EQUIPMENT, FIXTURE AND FITTING LOCATIONS.



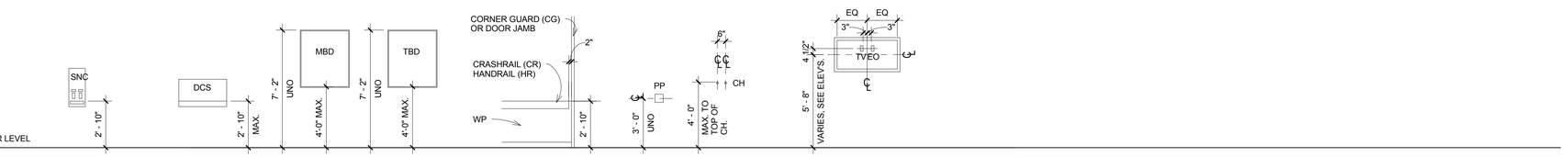
DESCRIPTION	TOILET/WATER CLOSETS ACCESSIBLE	LAVATORY BASIN/BATHROOMS	BATHROOM SINK	LAVATORY BASIN/HANDWASH STATION	BATHTUB
NOTES :	1. SND - SANITARY NAPKIN PISPOSAL. PROVIDE AT UNISEX, & WOMEN'S PATIENT BATHROOMS ONLY. 2. GB - GRAB BARS. AT NON-ACCESSIBLE WATER CLOSETS OMIT GRAB BARS. 3. FLUSH VALVE/CONTROL MUST BE LOCATED ON THE OUTSIDE OR WIDE SIDE OF THE TOILET. 4. GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS.	1. SEE PLAN FOR SPECIFIC LOCATION CONDITION 2. SDISD & PTC-BY OWNER, INSTALLED BY CONTRACTOR. 3. ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. 4. EXPOSED HOT AND COLD WATER PIPES ARE TO BE INSULATED.	1. SEE PLAN FOR SPECIFIC LOCATION CONDITION 2. SDISD & PTC-BY OWNER, INSTALLED BY CONTRACTOR 3. ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. 4. EXPOSED HOT AND COLD WATER PIPES ARE TO BE INSULATED.	1. SEE PLAN FOR SPECIFIC LOCATION CONDITION 2. SDISD & PTC BY OWNER, INSTALLED BY CONTRACTOR 3. ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. 4. EXPOSED HOT AND COLD WATER PIPES ARE TO BE INSULATED.	1. REMOVABLE BATHTUB SEAT TO BE PROVIDED WITH BATHTUB. GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS.



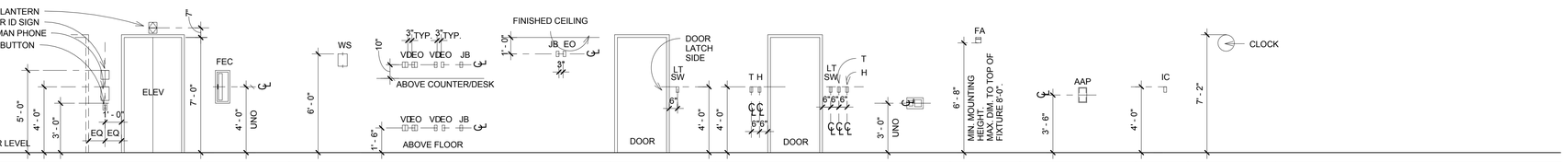
DESCRIPTION	ACCESSIBLE SHOWER - ROLL IN SHOWER WITH SEAT	HOUSEKEEPING/EVS CLOSET	SOAP/GEL/FOAM DISP.	MIRROR MIR-8	PAPER TOWEL CAB/WR
NOTES :	1. 36" X 60" CLEAR ACCESSIBLE STANDARD ROLL IN SHOWER. DIMENSIONS ARE MINIMUM CLEAR INSIDE INCLUDING FINISHES. 2. PROVIDE HAND HELD SHOWER WITH SLIDE BAR, ADJUSTABLE MECHANISE AND BE OPERABLE WITH ONE HAND WITHOUT TIGHT GRASPING OR TWISTING OF THE WRIST. MAX. 5 LB FORCE TO OPERATE. 3. GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS. 4. HAND HELD SHOWER MUST HAVE A NON-POSITIVE SHUT OFF AND A HOSE THAT IS 59" LONG MIN.	1. UTILITY SHELF 24" LONG UNO. 2. WATER CONTROLS AND SERVICE RECEPTOR, REFER MECHANICAL DRAWINGS.	1. XXX	1. SEE PLANS FOR MIRROR TYPE. 2. MIR-1 = 18"x 30" UNO. 3. MIR-8 = 30"x 60" UNO. 4. MOUNTING HEIGHT TO BOTTOM OF GLASS, TYP. UNO.	1. MOUNTING HEIGHT IS INDICATED FOR A BOTTOM DISPENCING CABINET. MAX PAPER SOURCE HEIGHT IS 48".



DESCRIPTION	PC WORK STATION	COUNTER TOP SINK	DF, DRINKING FOUNTAIN OR EWC, ELECTRIC WATER COOLER	ACCESSIBLE SHOWER - TRANSFER TYPE SHOWER WITH SEAT
NOTES :		1. SEE PLAN FOR SPECIFIC LOCATION CONDITION 2. SDISD & PTC-BY OWNER, INSTALLED BY CONTRACTOR 3. ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. 4. EXPOSED HOT AND COLD WATER PIPES ARE TO BE INSULATED.	1. WHERE A SINGLE DF IS REQUIRED IT SHALL BE INSTALLED AS AN ACCESSIBLE DF. 2. ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. 3. SPOUT HEIGHT FOR ADA IS MAX 36" AFL. FOR STANDING PEOPLE. SPOUT MOUNTING HEIGHT IS 38"-43" AFL.	1. 36" X 36" CLEAR ACCESSIBLE TRANSFER TYPE SHOWER. DIMENSIONS ARE ABSOLUTE CLEAR INSIDE INCLUDING FINISHES. 2. PROVIDE HAND HELD SHOWER WITH SLIDE BAR, ADJUSTABLE MECHANISE AND BE OPERABLE WITH ONE HAND WITHOUT TIGHT GRASPING OR TWISTING OF THE WRIST. MAX. 5 LB FORCE TO OPERATE. 3. GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS. 4. HAND HELD SHOWER MUST HAVE A NON-POSITIVE SHUT OFF AND A HOSE THAT IS 59" LONG MIN.



DESCRIPTION	SANITARY NAPKIN CABINET	DIAPER CHANGING STATION	MARKER BOARD	TACK BOARD	HANDRAIL/CRASH RAILS	PUSH PLATE	COAT HOOKS	VERTICAL SURFACES
NOTES :	1. ENSURE MAX. 4'-0" HIGH TO OPERABLE CONTROLS AFL.	1. ENSURE MIN. 2'-3" HIGH X 8" DEEP KNEE SPACE. 2. PULL DOWN HANDLE TO BE LOCATED 48" MAX AFL.	REFER TO ELEV. FOR SPEC. NUMBER AND SIZE.	REFER TO ELEV. FOR SPEC. NUMBER AND SIZE.	HANDRAIL (HR) OR CRASH RAIL (WP), SEE DETAILS ON SHEET Ax.x.01/25,26, AND 27.		6" SEPARATION AT DOUBLE COAT HOOK CONDITION (TYP)	VERTICAL SURFACES AND PROVIDE PARTITION BLOCKING TV AND EQ, REFER TO MANUF. INSTRUCTIONS. O.A. UNIT CAN NOT PROJECT MORE THAN 4" INTO CIRCULATION AREA.



DESCRIPTION	ELEVATOR	FEC	WALL SCONCE	ELECT/COMM OUTLETS	CCTV CAMERA OUTLETS	LIGHT SWITCH	THERMOSTAT/HUMIDISTAT	CARD READER	FIRE ALARM	ALARM ANNUNCIATOR PANEL	INTERCOM	CLOCK
NOTES :	ELEVATOR CAB EMERGENCY CALL BUTTON MUST BE AT 35" AFL AND FLOOR BUTTONS MAY BE NO HIGHER THEN 48" AFL.		FIXTURES CAN NOT PROJECT INTO CORRIDOR MORE THAN 4"	MOUNT HEIGHTS SHOWN FOR ABOVE FLOOR AND ABOVE COUNTER UNO., REFER TO ELEVATIONS FOR LOCATIONS.		AT DOOR LOCATION	WALL MOUNTED AT DOOR LOCATION	REFER ELECTRICAL AND COMMUNICATION DRAWINGS.				

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Mounting Heights

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	T008
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Review

Holiday Inn Express & Suites

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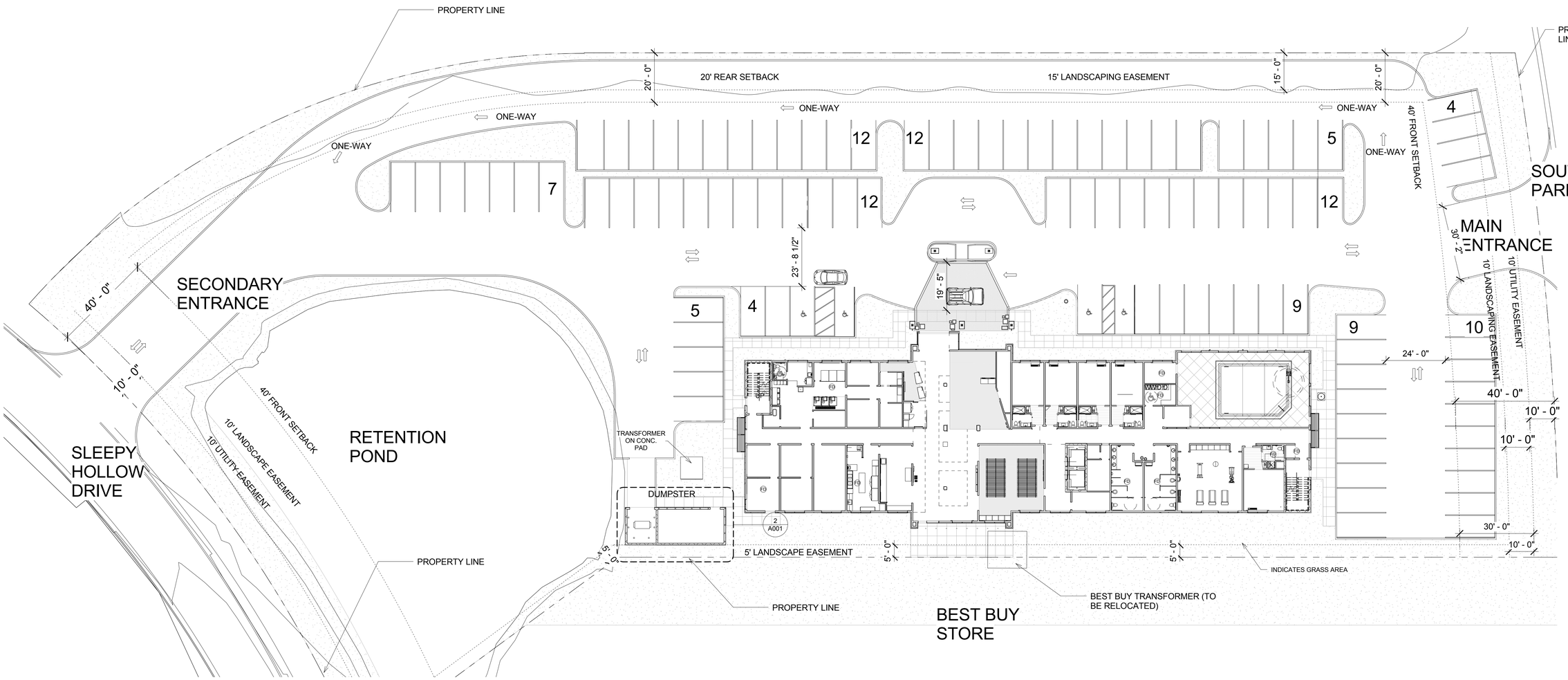
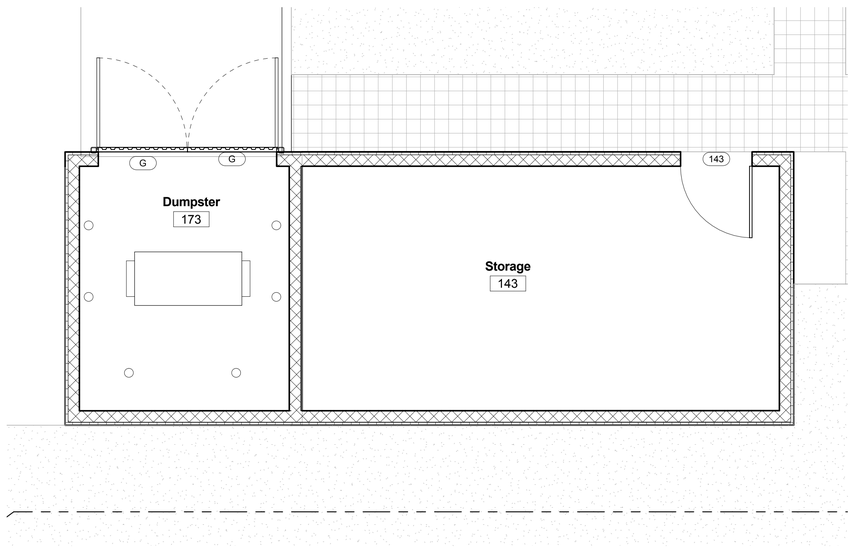


1 Site
1" = 20'-0"



2 Storage and Dumpster
1/4" = 1'-0"

FLOOR	AREA (SQUARE FEET)
First Floor:	14, 776
Second Floor:	14, 497
Third Floor:	14, 497
Fourth Floor:	14, 497
GRAND TOTAL:	58, 267

TOTAL NUMBER OF ROOMS: 95
TOTAL PARKING: 101 (INCLUDING 4 ADA)
TOTAL NUMBER OF FLOORS: FOUR
OCCUPANCY CLASSIFICATION: R1
TYPE OF CONSTRUCTION: IV-B; WOOD-FRAMED WITH WOOD FLOORS JOISTS (FULLY SPRINKLERED)
MAXIMUM HEIGHT OF BUILDING: 52 FEET

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
8536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Site Plan

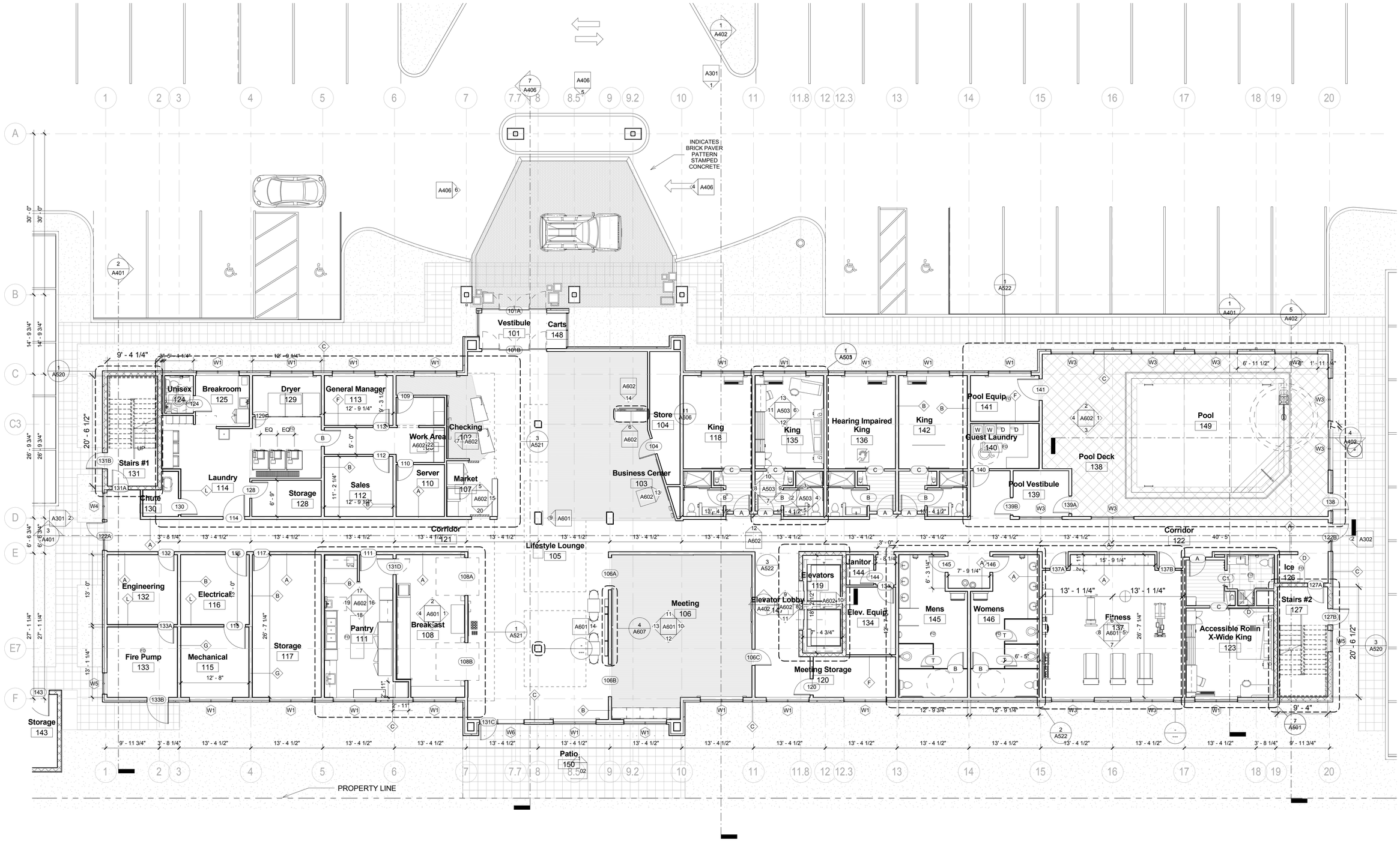
Phase
Construction Documents

Project No.	14-081	Sheet No.	A001
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:13:34 AM



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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
First Floor Plan

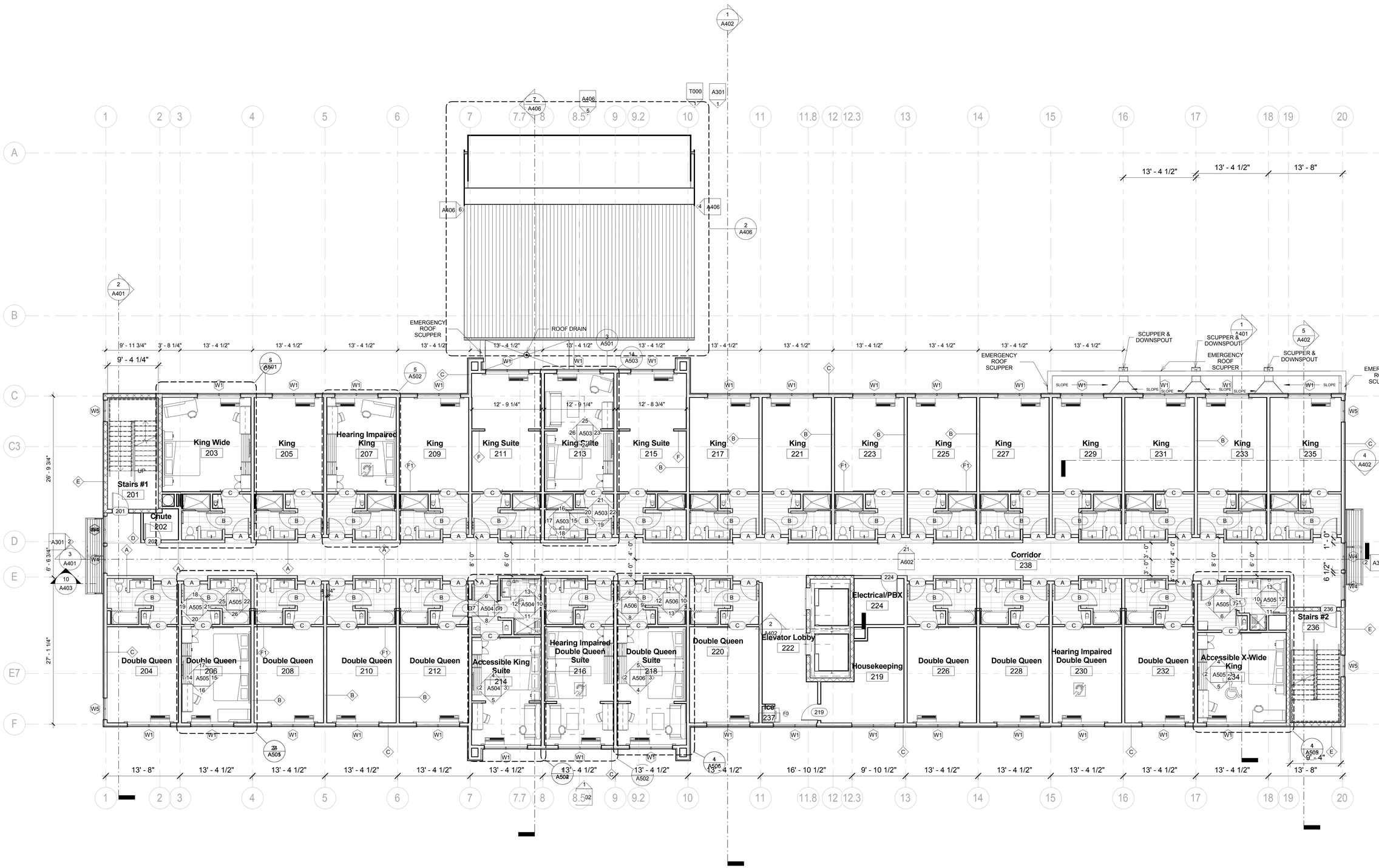
Phase
Construction Documents

Project No.	14-081	Sheet No.	A101
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

3/2/2015 5:13:44 AM

Holiday Inn Express & Suites



Level 2
1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 8536 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Second Floor Plan

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A102
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

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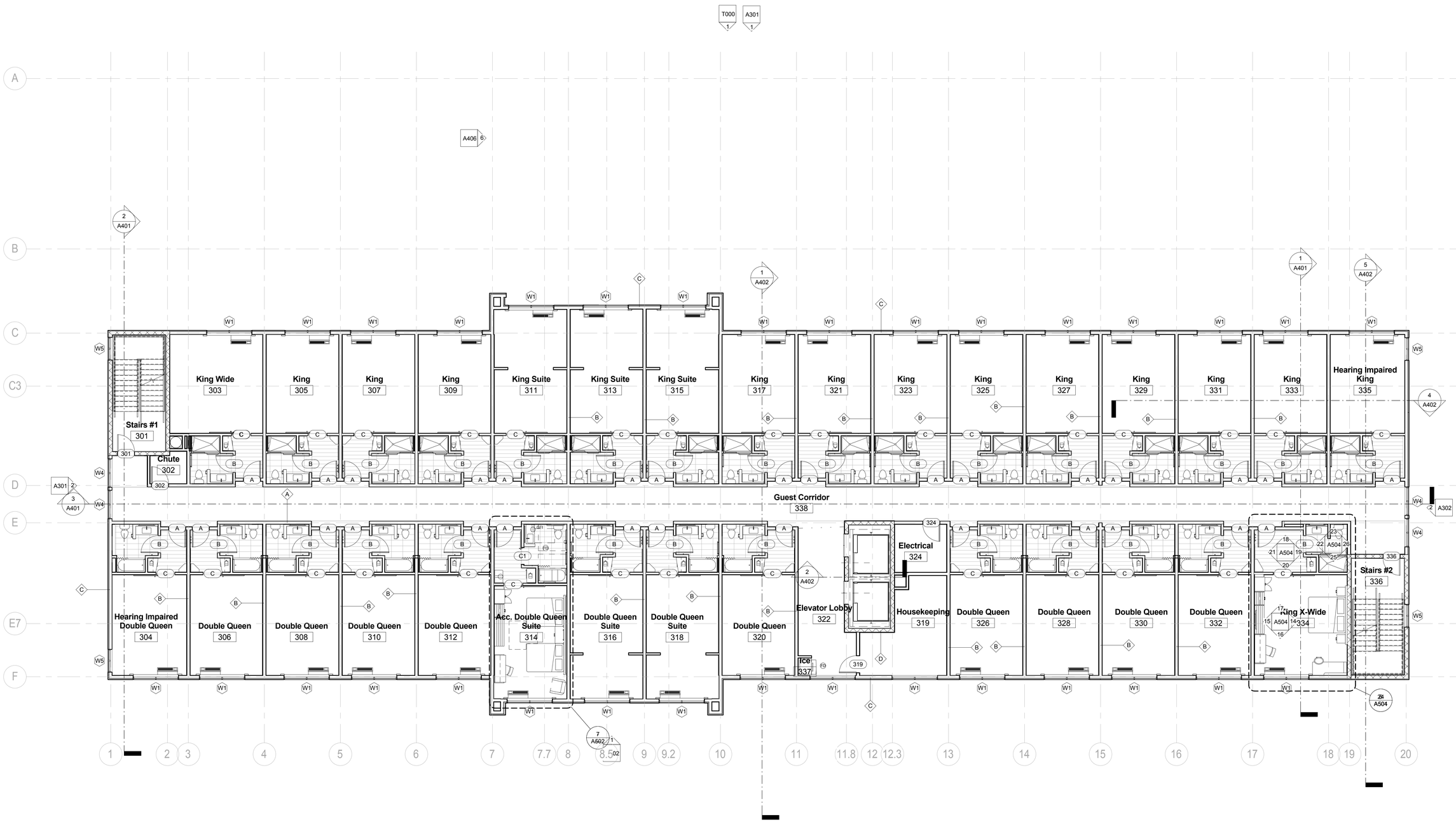

1 Level 3
1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Third Floor Plan

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A103
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

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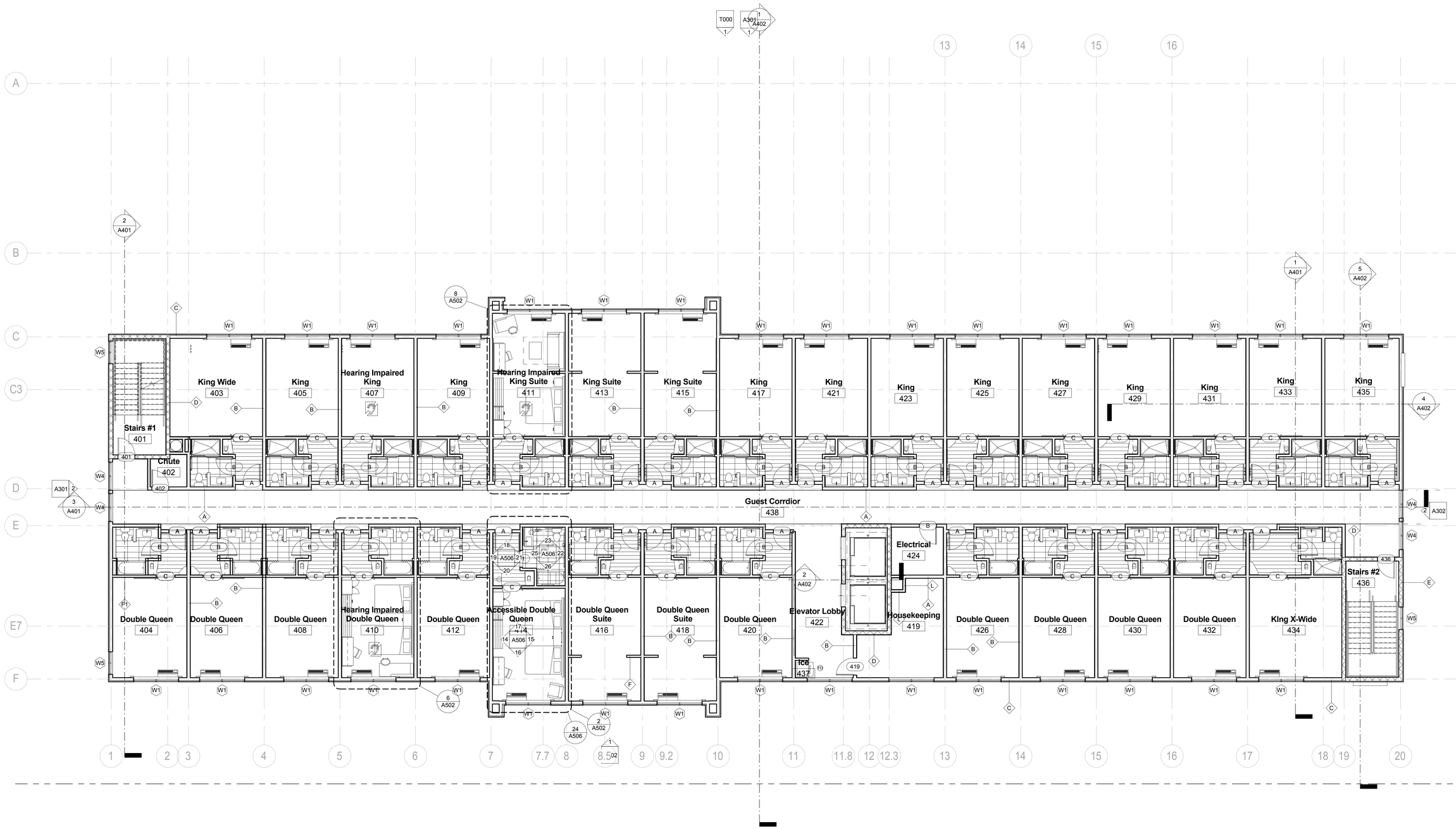

1 Level 4
1/8" = 1'-0"

3/2/2015 5:13:59 AM

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

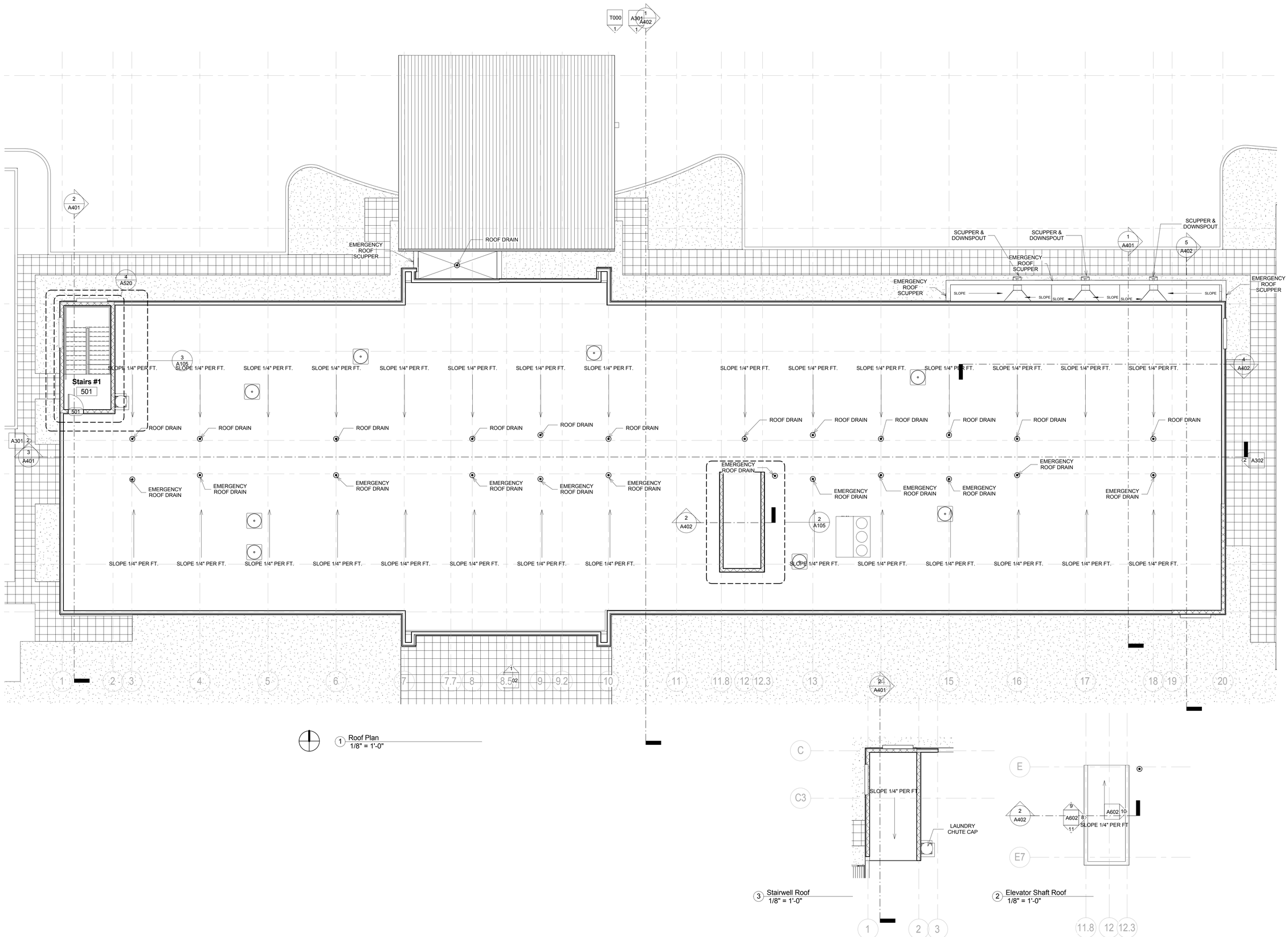
Drawing Title
Fourth Floor Plan

Phase
Construction Documents

Project No.	14-081	Sheet No.	A104
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites



1 Roof Plan
1/8" = 1'-0"

3 Stairwell Roof
1/8" = 1'-0"

2 Elevator Shaft Roof
1/8" = 1'-0"

3/2/2015 5:14:02 AM

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH
MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Roof Plan

Phase
Construction Documents

Project No.	14-081	Sheet No.	A105
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

RCP LEGEND

GYPSUM BOARD

2' x 2' ACT CEILING

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 23361 STATE OF MISSISSIPPI 3/2/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
First Floor RCP

Phase
Construction Documents

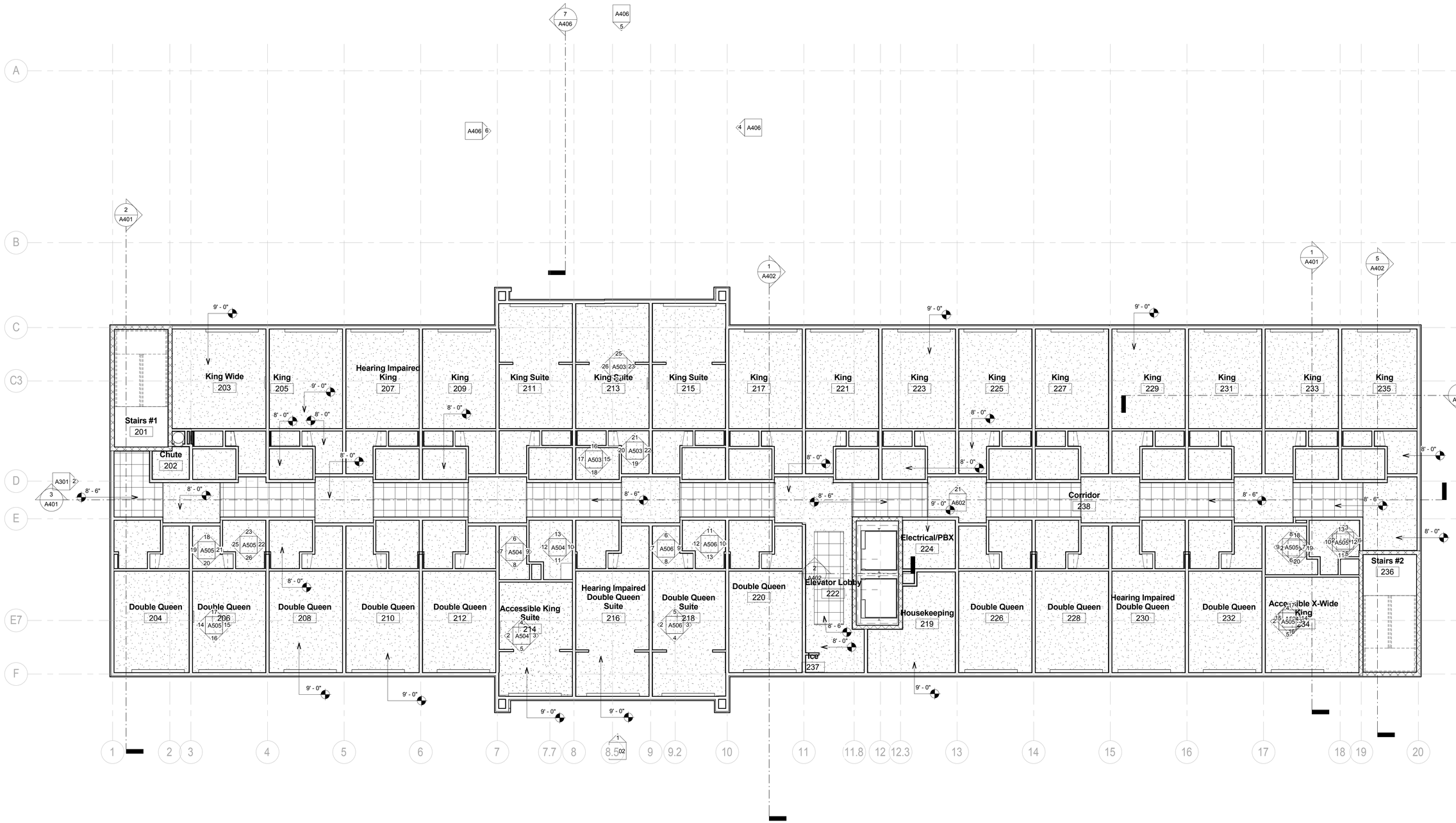
Project No.	14-081	Sheet No.	A201
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:14:06 AM

1 Level 1 Reflected Ceiling Plan
1/8" = 1'-0"



1 Level 2 Reflected Ceiling Plan
1/8" = 1'-0"

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REVISIONS

No.	Date	Description

ASHISH MISHRA 3536 REGISTERED ARCHITECT STATE OF MISSISSIPPI 2/6/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Second Floor RCP

Phase
Construction Documents

Project No.	14-081	Sheet No.	A202
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:14:11 AM

1 Level 3 Reflected Ceiling Plan
1/8" = 1'-0"

3/2/2015 5:14:16 AM

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

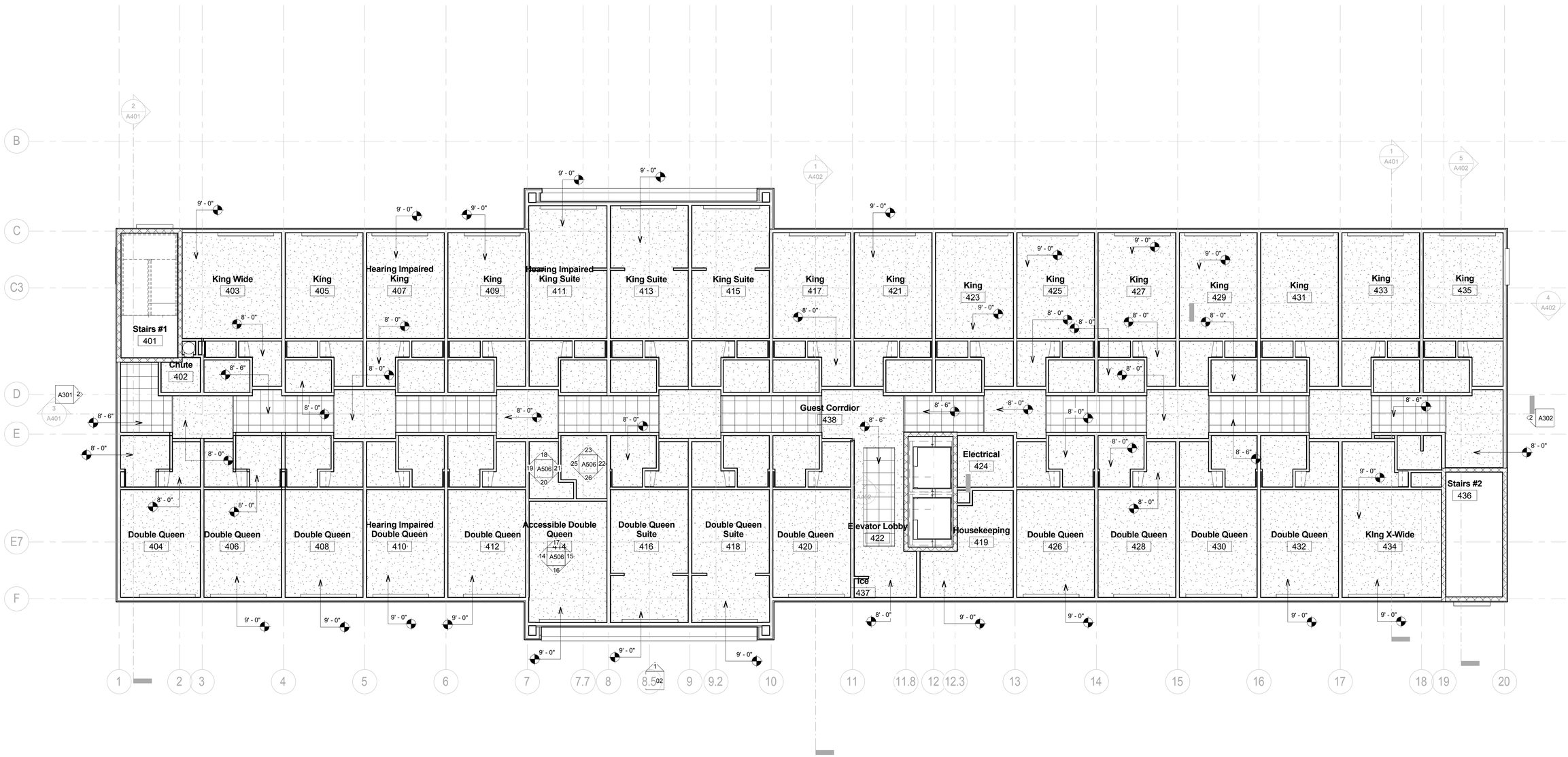
Drawing Title
Third Floor RCP

Phase
Construction Documents

Project No.	14-081	Sheet No. A203
Prepared by	Author	
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites



1 Level 4 Reflected Ceiling Plan
1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Fourth Floor RCP

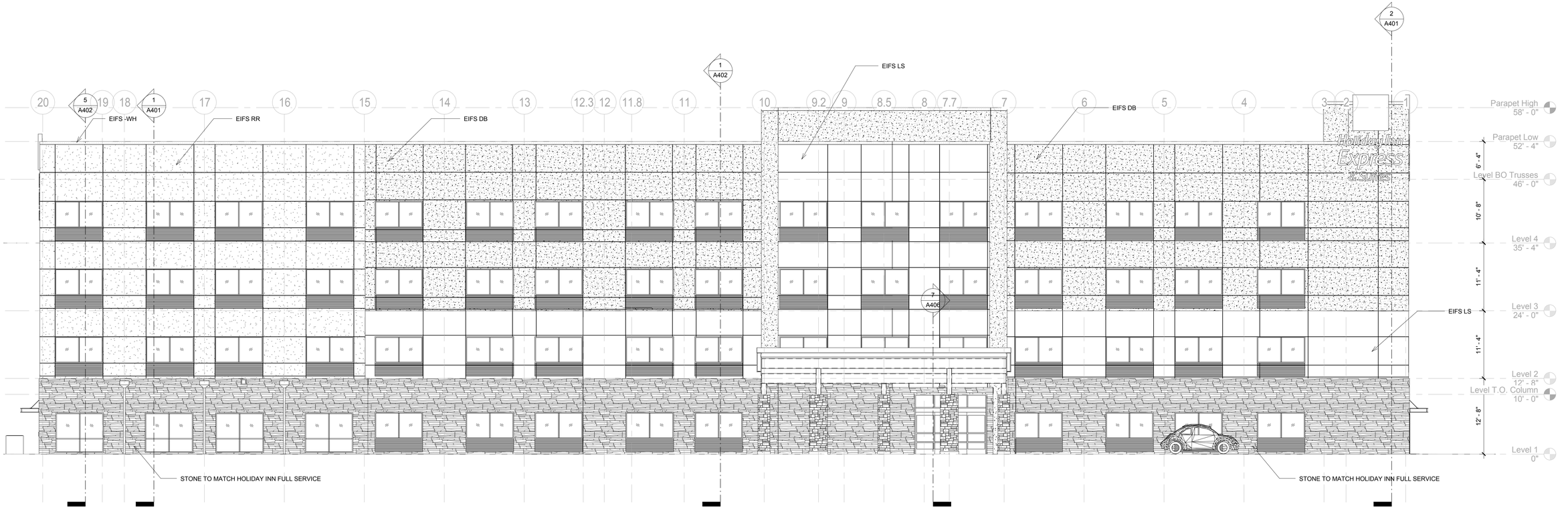
Phase
Construction Documents

Project No.	14-081	Sheet No.	A204
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

3/2/2015 5:14:21 AM

Holiday Inn Express & Suites



1 North
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND.

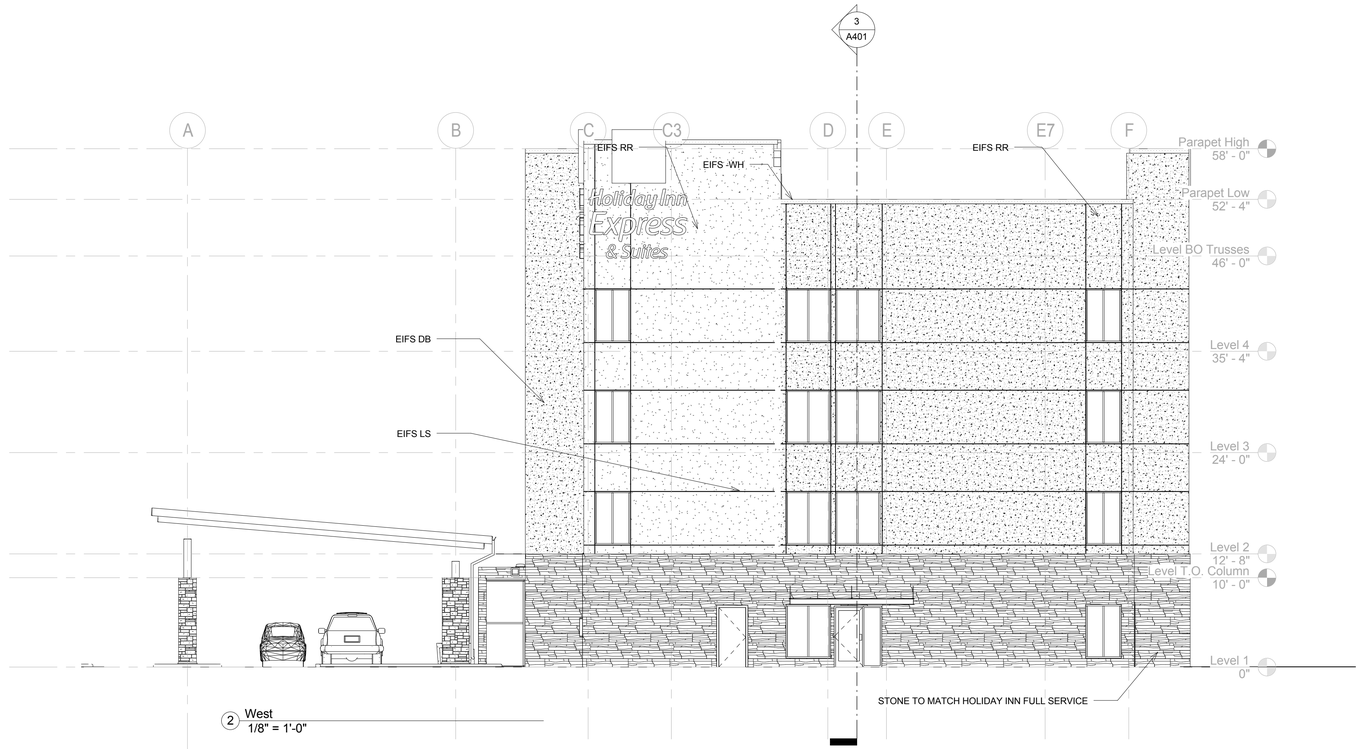
CONTEMPORARY EXTERIOR SCHEME

EIFS-LS, LIMESTONE/SANDSTONE.
PAREX TEXTURED, MULTI-TEXTURE SURFACE WITH PDR ACRYLIC FINISH.
EIFS-LSS, LIMESTONE/SANDSTONE.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX MOONDANCE 3027L.

EIFS-DB, DARK BRONZE.
PAREX MEDIUM, SAND FINE SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX TWIG 3021L.

EIFS-RR, RUSTIC RED.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX SUN DRIED 3011L.

EIFS-WH, WHITE.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX SNOWBALL 10400L.



2 West
1/8" = 1'-0"

3/2/2015 5:14:44 AM

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
8536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

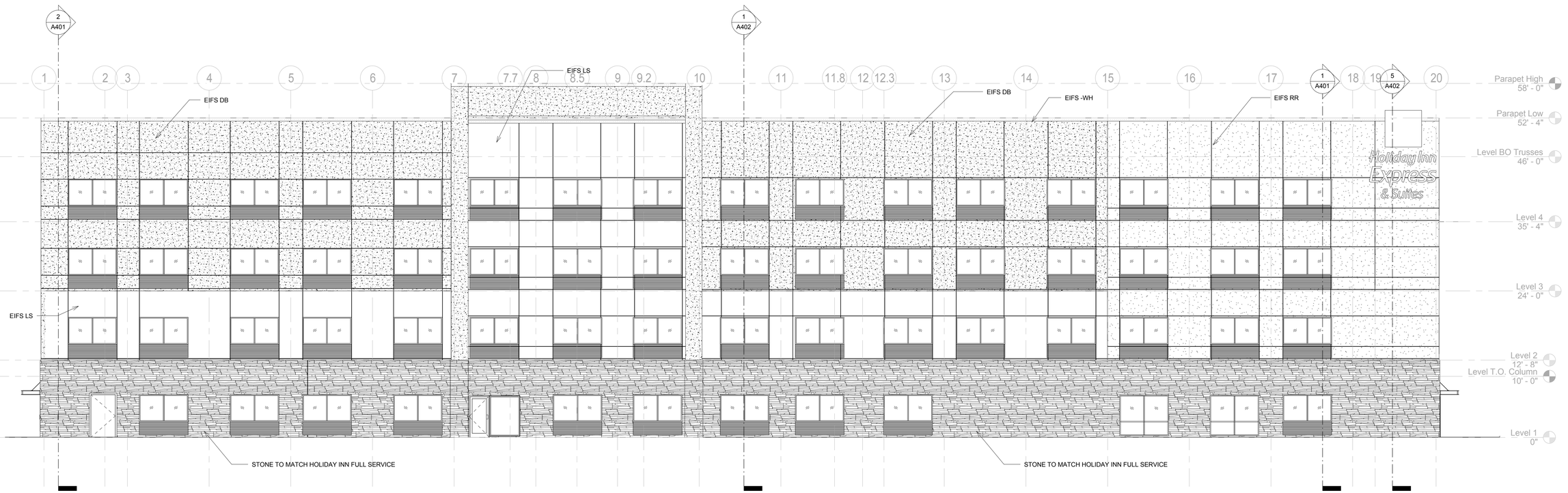
Drawing Title
Elevations

Phase
Construction Documents

Project No.	14-081	Sheet No.	A301
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites



1 South Elevation
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND.

CONTEMPORARY EXTERIOR SCHEME

EIFS-LS, LIMESTONE/SANDSTONE.
PAREX TEXTURED, MULTI-TEXTURE SURFACE WITH PDR ACRYLIC FINISH.
EIFS-LSS, LIMESTONE/SANDSTONE.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX MOONDANCE 3027L.

EIFS-DB, DARK BRONZE.
PAREX MEDIUM, SAND FINE SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX TWIG 3021L.

EIFS-RR, RUSTIC RED.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
COLOR: PAREX SUN DRIED 3011L.

EIFS-WH, WHITE.
PAREX SMOOTH, SAND SMOOTH SURFACE WITH PDR ACRYLIC FINISH.
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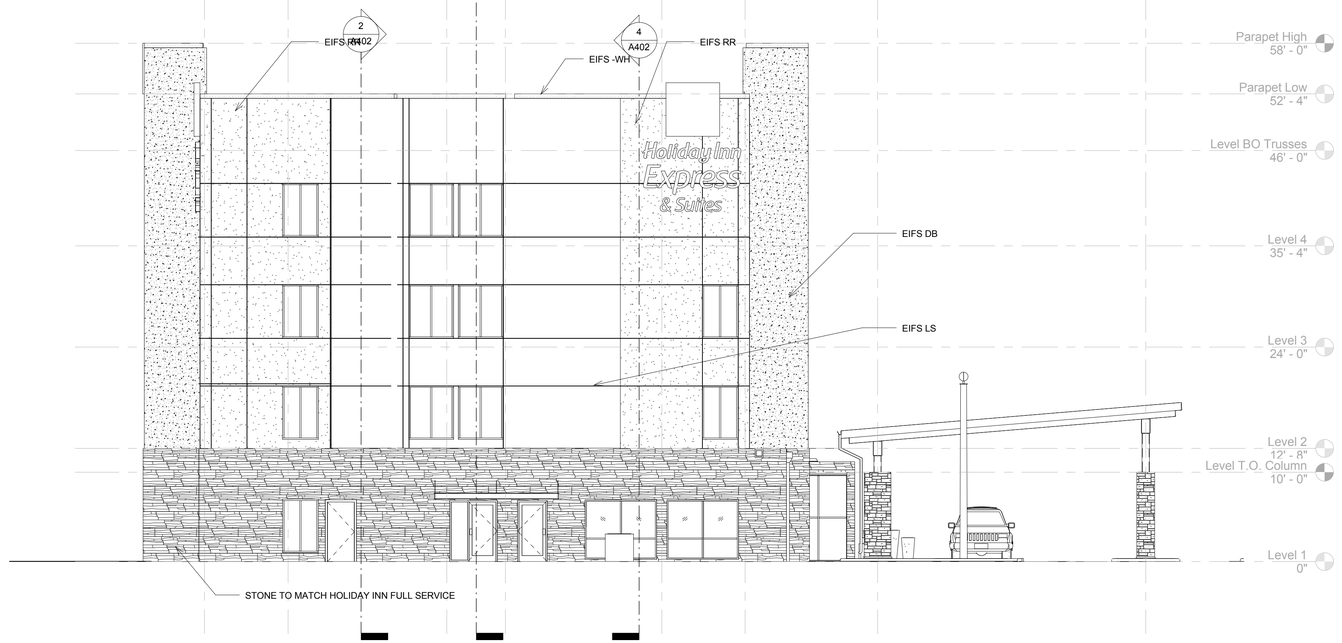

2 East
1/8" = 1'-0"

3/2/2015 5:14:57 AM

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

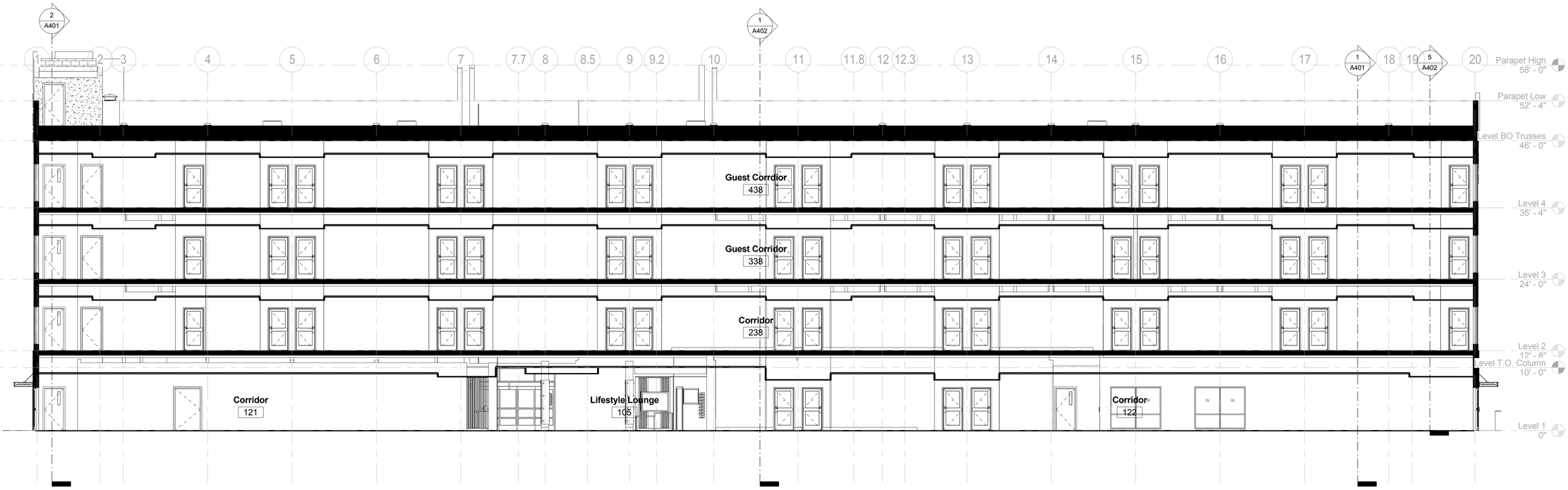
Drawing Title
Elevations

Phase
Construction Documents

Project No.	14-081	Sheet No.	A302
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites



3 Section 6
1/8" = 1'-0"

TYPICAL EXTERIOR MASONRY WALL ASSEMBLY

FACE BRICK WITH 7/8" WIDE 29 GA. GALV. METAL TIES AT 32" O.C. HORIZONTAL 16" O.C. VERTICAL W/ 1" AIR GAP 8" CMU BLOCK W/ WATERPROOFING 1" SCORED RIGID INSULATION. FURRYING CANNELS W/ 5/8" GYP BD. ON INSIDE

TYPICAL EIFS WALL CONSTRUCTION:

-5/8" GYPSUM ON 6" WOOD STUDS @ 16" O.C. W/ UNFACED R-13 BATT INSULATION
-5/8" PLYWOOD SHEATHING
-2" DRAINABLE EIFS

TYPICAL ROOF CONSTRUCTION:
ONE HOUR RATED ASSEMBLY AS PER U.L. DESIGN P-522

- 60 MIL FULLY ADHERED TPO (THERMOPLASTIC OLEFIN) WHITE ROOFING MEMBRANE
- 4.5" MINIMUM RIGID INSULATION ON ROOF DECK.
- 5/8" GYP. BD. WITH 6" BATT INSULATION MIN. ON 2 1/2" FURRING CHANNELS @ 24" O.C. ON CEILING SIDE-SEE STRUCTURAL DRAWINGS FOR DETAILS

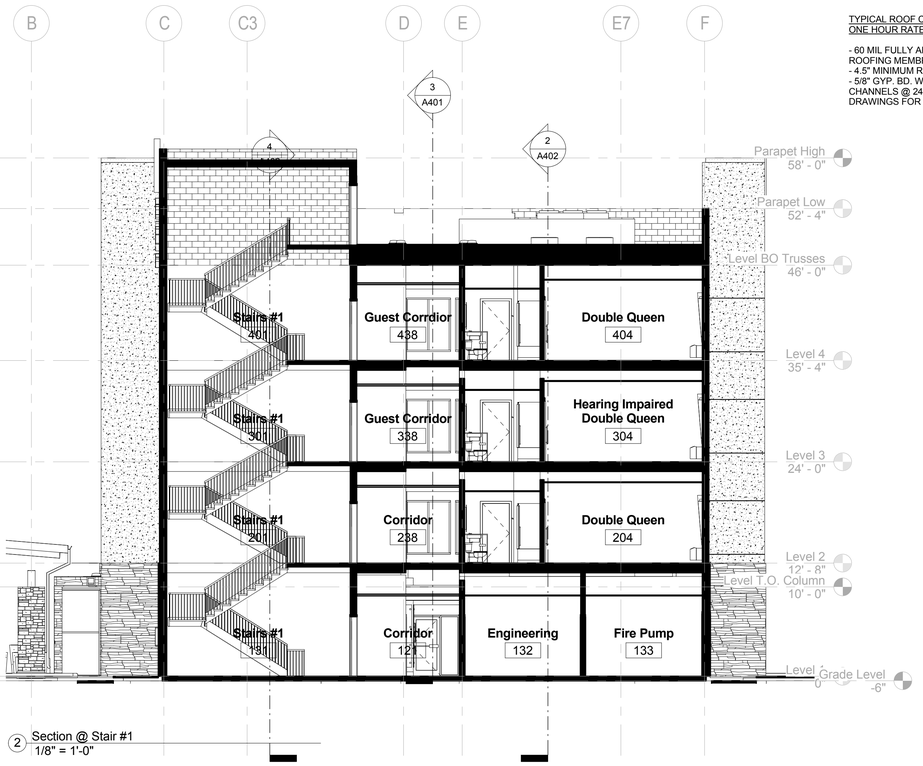
TYPICAL PARAPTET CONSTRUCTION:

-PREFINISHED METAL COPING ON TREATED BLOCKING.
-ROOF MEMBRANE ALONG INSIDE FACE, UP AND OVER TOP OF PARAPET WALL
-PLYWOOD (MOISTURE RESISTANT) NAILER PANEL AT INSIDE FACE OF WALL-SEE DETAIL

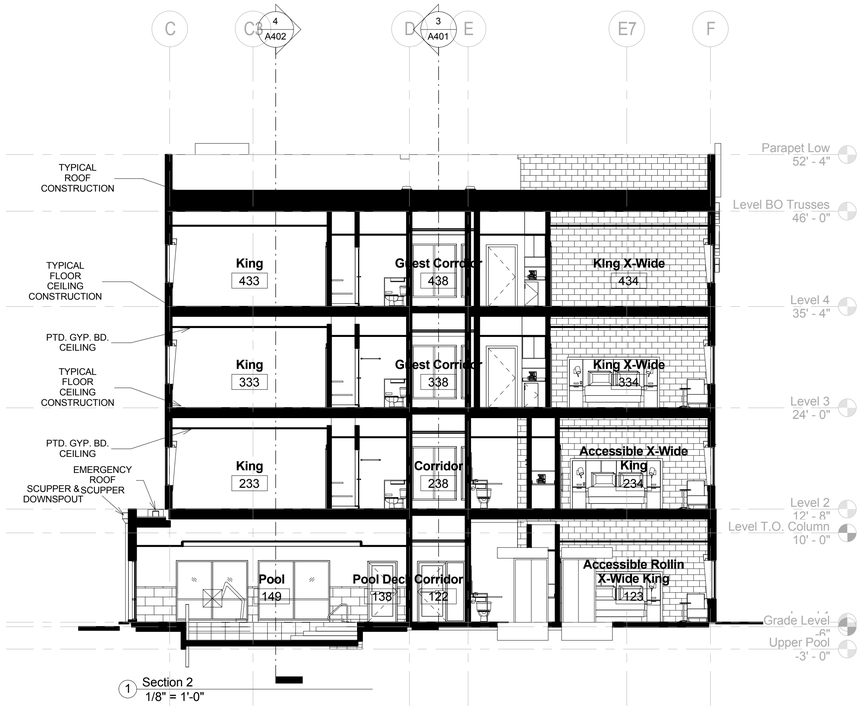
TYPICAL FLOOR/CEILING ASSEMBLY:
ONE HOUR RATED ASSEMBLY

3/4" GYPCRETE ON SEALANT OVER 23/32" STRUCTURAL PANELS ON 16" WOOD TRUSSES @ 24" O.C.
5/8" F.C. GYP. BD. ON #26 MSG. RESILIENT CHANNELS @ 16" O.C.

ALL ACOUSTICAL CEILING TILE TO BE INSTALLED BELOW THE ONE-HOUR RATED FLOOR/CEILING ASSEMBLY WITHOUT COMPROMISING ON THE ASSEMBLY RATING. ALL PENETRATIONS TO BE FIRE-CAULKED AS PER UL STANDARDS TO PROVIDE ONE-HOURS FLOOR/CEILING ASSEMBLY ON ALL FLOORS.



2 Section @ Stair #1
1/8" = 1'-0"



1 Section 2
1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Sections

Phase
Construction Documents

Project No.	14-081	Sheet No. A401
Prepared by	Author	
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

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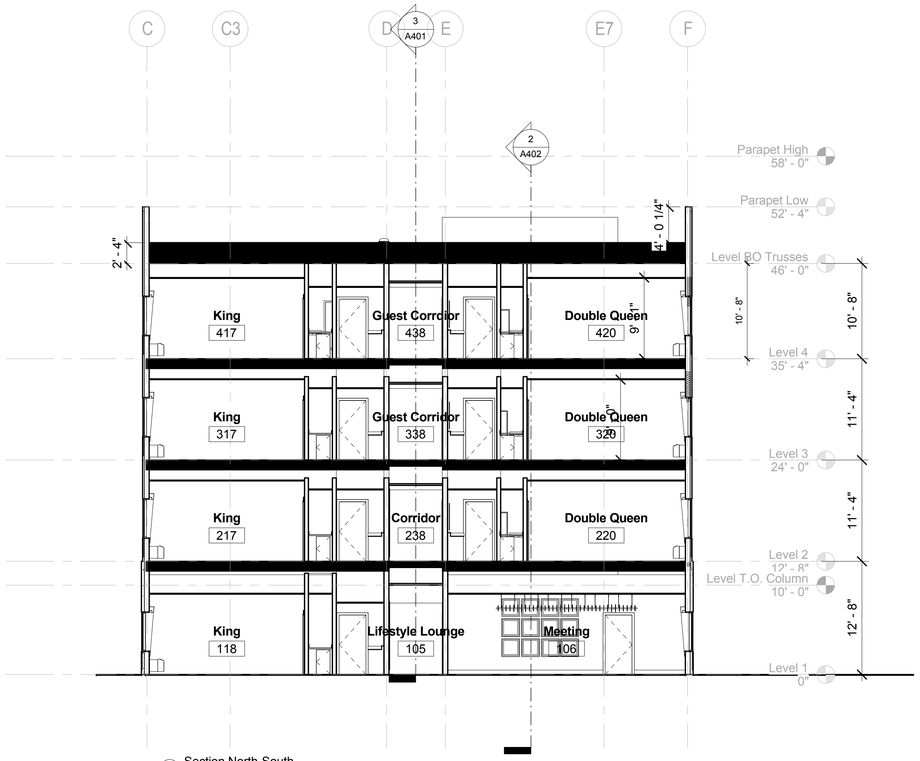


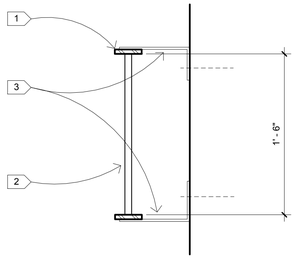
1 Section North-South
1/8" = 1'-0"

LADDER KEY NOTES

1. LADDER STRINGERS. 3"X3/8" STL. BARS. WELD FABRICATE, GRIND SMOOTH. ROUND ENDS SMOOTH.
2. LADDER RUNGS. 3/4" DIA. STL. BARS @ MAX. 12" O.C. WELD ALL ROUND TO STRINGERS, GRIND SMOOTH.
3. LADDER BRACKETS, 3"x3/8" x 11" LONG STL. ANGLE. ROUND ENDS SMOOTH. 5/8" DIA. MASONRY ANCHOR INTO EXTERIOR WALL. WELD ALL ROUND TO STRINGERS EVENLY SPACED AND 4'-0" MAX. O.C.

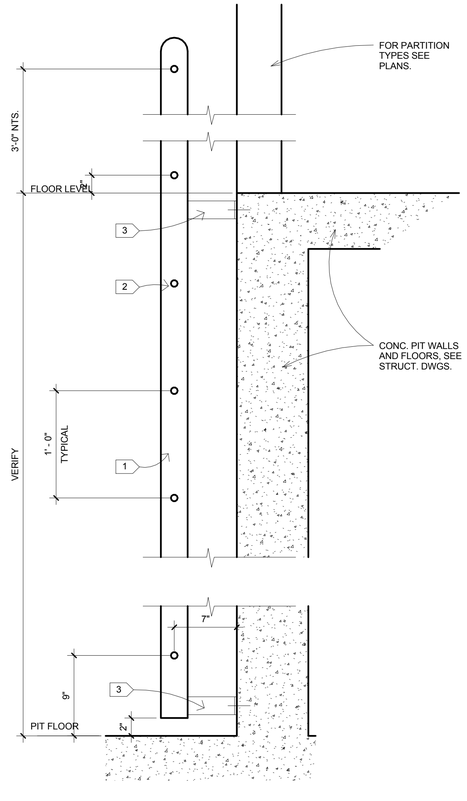
LADDER NOTES :

1. LADDER FINISH, GLAVANIZED.
2. 3/16" WELD ALL ROUND FABRICATE LADDER, GRIND SMOOTH PRIOR TO FINISH APPLICATION.
3. FIELD VEIFY EXACT LOCATION, COORDINATE WITH ELEVATOR SUPPLIER.

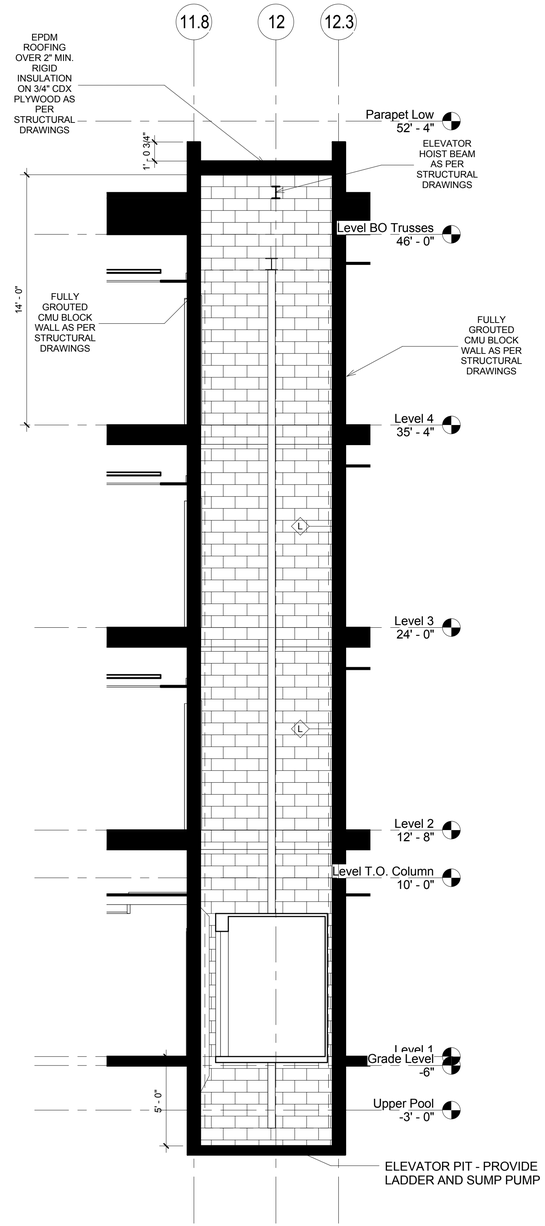


3 Elevator Pit Ladder
1 1/2" = 1'-0"

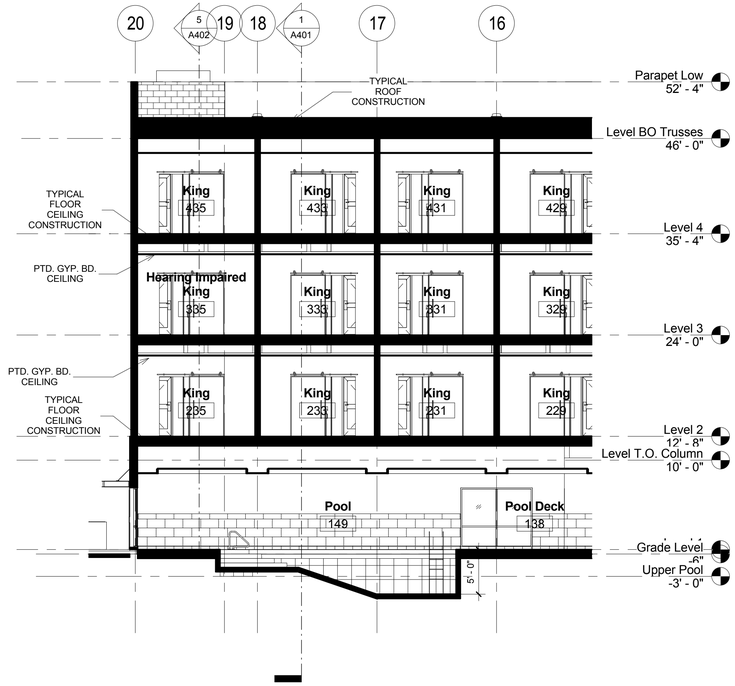
PLAN



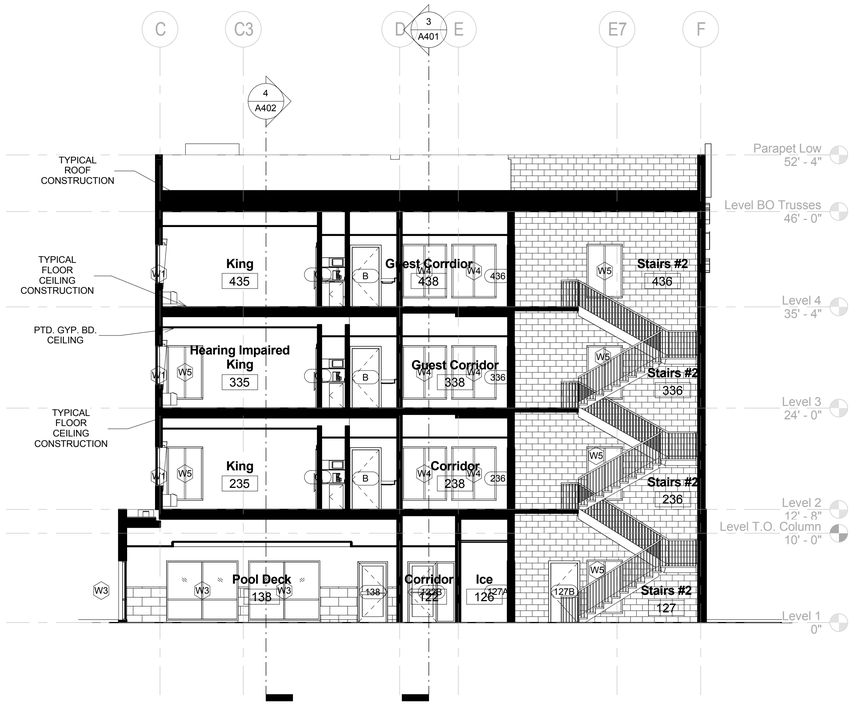
SECTION



2 Section @ Elevator Shaft
1/4" = 1'-0"



4 Section 7
1/8" = 1'-0"



5 Section @ Stairs #2
1/8" = 1'-0"

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REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

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Holiday Inn Express & Suites

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Southaven, MS 38671

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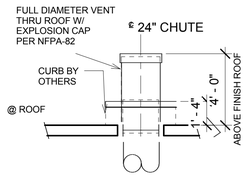
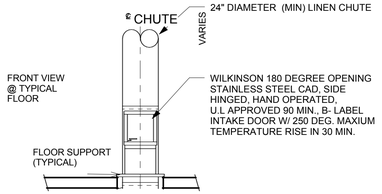
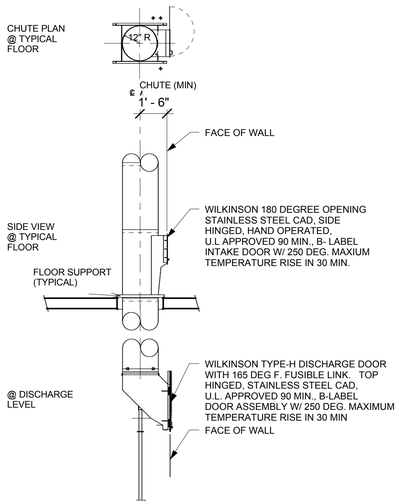
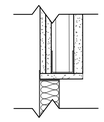
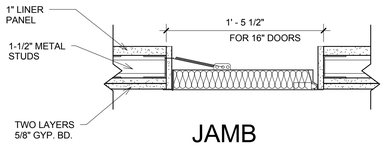


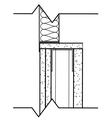




1 Laundry Chute Detail
1/4" = 1'-0"

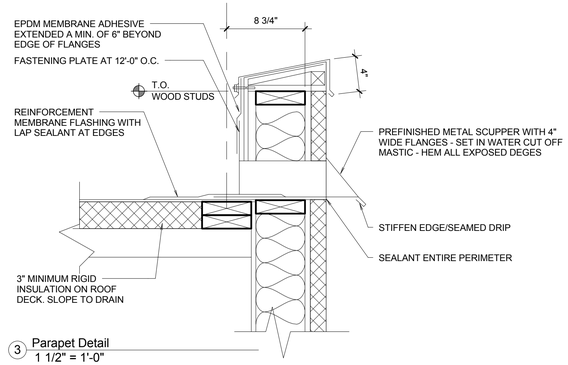




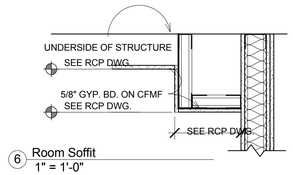


2 Laundry Chute door
1 1/2" = 1'-0"

NOTE:
ALL OPENINGS CUT INTO RATED FLOOR AND WALL CONSTRUCTION SHALL BE SEALED WITH FIRESTOPPING WITH RATING TO MATCH FLOOR AND WALL RATING. SEALANTS SHALL BE BY SUBCONTRACTOR CREATING OPENINGS. FIRESTOPPING NOT REQUIRED AT FLOOR PENETRATIONS WITH RATED SHAFT WALL CONSTRUCTION.

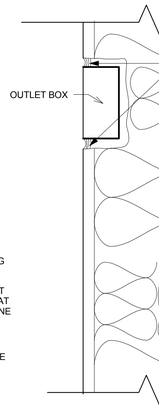


3 Parapet Detail
1 1/2" = 1'-0"



6 Room Soffit
1" = 1'-0"

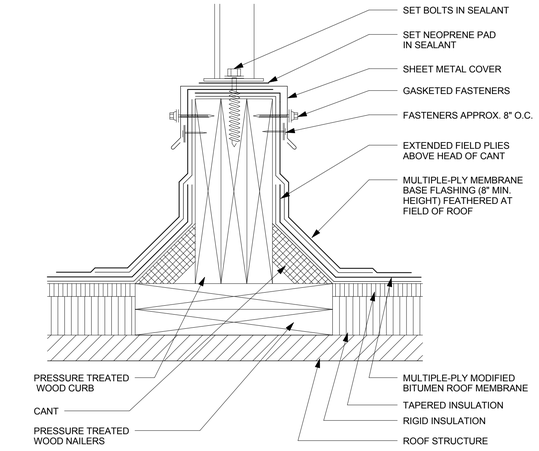
WIDTH OF EQUIPMENT	HEIGHT OF LEGS
UP TO 24" [UP TO 600mm]	24" [600mm]
24" TO 48" [600mm TO 1.2m]	36" [900mm]
48" AND WIDER [1.2m AND WIDER]	48" [1.2m]



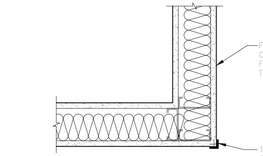
TO BE USED ON ALL ELECTRICAL, PHONE, AND TV BOXES. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL ELECTRICAL BOXES AND PADS AS IT RELATED TO THEIR CONTRACT.

DO NOT MOUNT ELECTRICAL BOXES DIRECTLY ON STUDS.

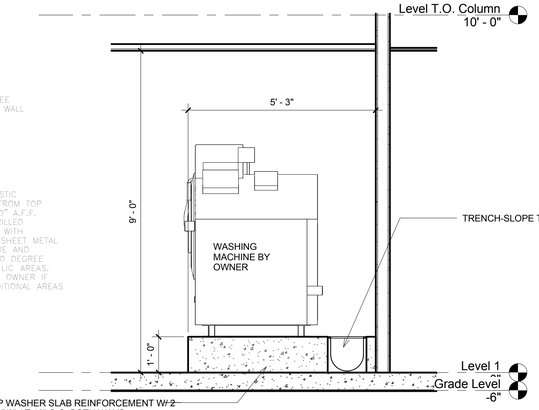
8 Outlet Detail
3" = 1'-0"



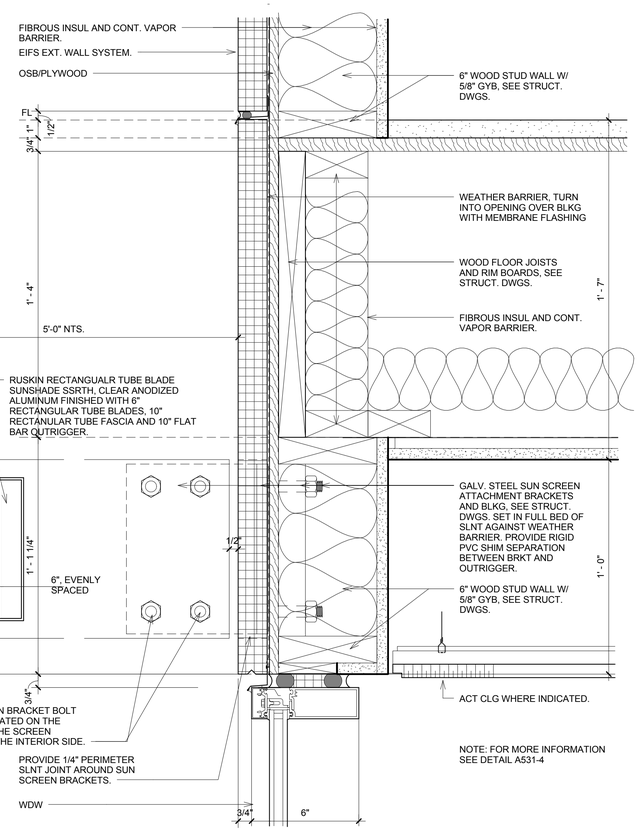
9 Equipment Curb Detail
12" = 1'-0"



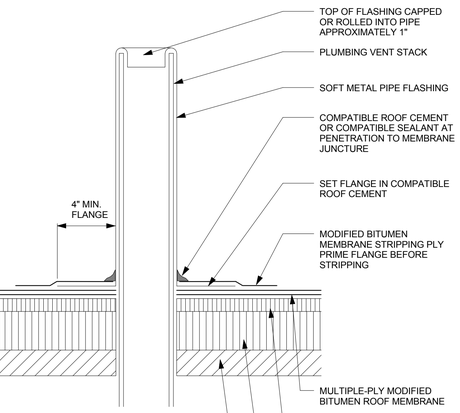
4 Corner Guard Detail
1 1/2" = 1'-0"



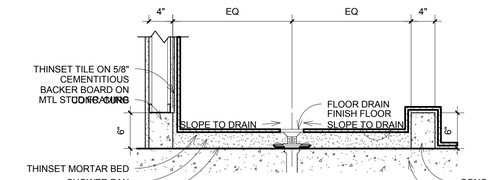
5 Section at Laundry Slab
1/2" = 1'-0"



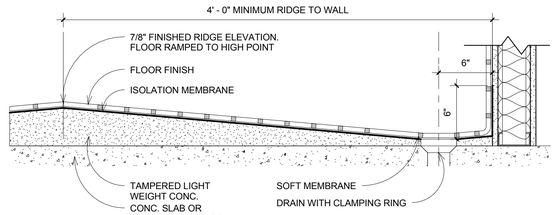
10 Exterior Wall Sun Screen
3" = 1'-0"



7 Plumbing Vent
12" = 1'-0"



11 Shower Pan Detail
1" = 1'-0"



12 ADA Shower Detail
1 1/2" = 1'-0"

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KEY PLAN

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Holiday Inn Express & Suites

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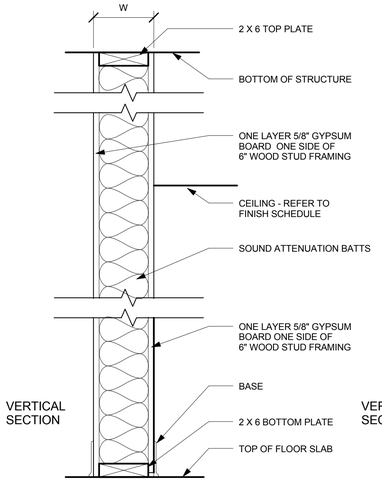


VERTICAL SECTION

PARTITION TYPE

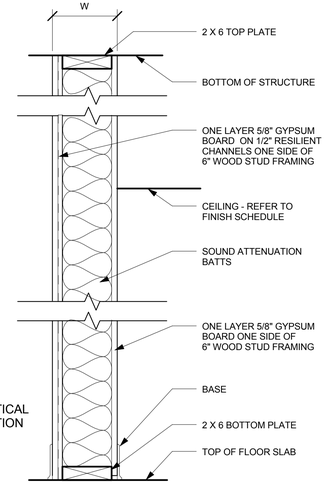
A

STC 45-49 UL: U337

DESCRIPTION

1 HOUR RATED BEARING WALL

W = AS PER 2X6 STUD SIZE



VERTICAL SECTION

PARTITION TYPE

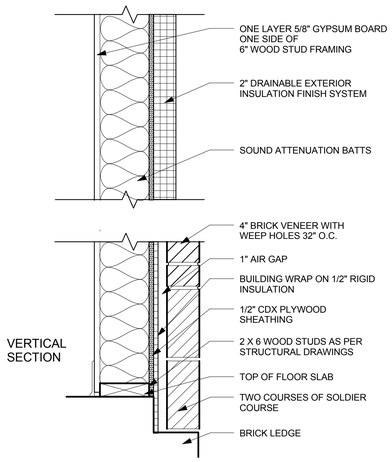
B

STC 50- 54 UL: U311

DESCRIPTION

1 HOUR RATED BEARING WALL

W = AS PER 2X6 STUD SIZE



VERTICAL SECTION

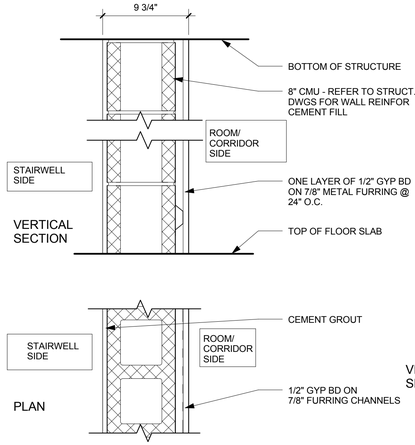
EXTERIOR MASONRY WALL

C

UL: U356 1 HOUR RATED BEARING WALL

DESCRIPTION

EXTERIOR MASONRY WALL WITH EIFS. HEIGHT OF MASONRY VARIES. SEE ELEVATIONS.



VERTICAL SECTION

PLAN

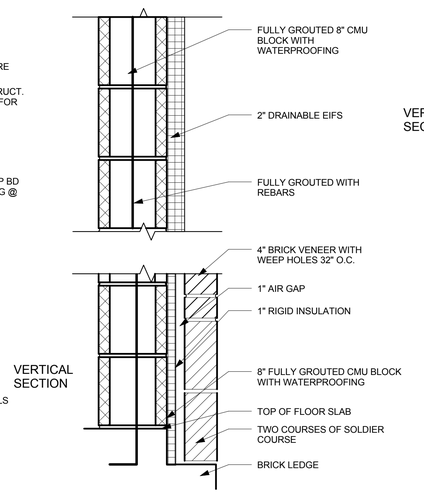
PARTITION TYPE

D

U.L. DESIGN U914 CONCRETE MASONRY UNIT WALL

DESCRIPTION

3 HOUR RATED INTERIOR CMU WALL



VERTICAL SECTION

EXTERIOR MASONRY WALL

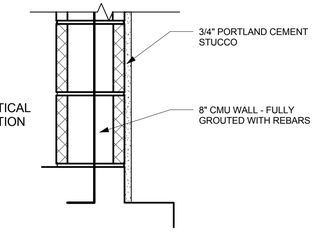
E

UL: U902: CMU WITH BRICK BEARING WALL - 4HOUR

UL: U906: CMU WITH STUCCO BEARING WALL - 2HOUR

DESCRIPTION

EXTERIOR MASONRY ON CMU WALL WITH STUCCO. HEIGHT OF MASONRY VARIES. SEE ELEVATIONS.



VERTICAL SECTION

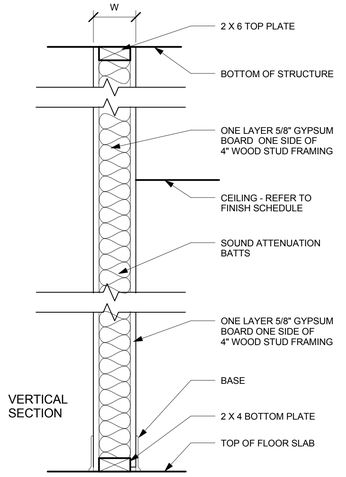
EXTERIOR MASONRY WALL

M

U-906 BEARING WALL 2 HOUR RATED

DESCRIPTION

EXTERIOR MASONRY ON CMU WALL WITH STUCCO. HEIGHT OF MASONRY VARIES. SEE ELEVATIONS.



VERTICAL SECTION

PARTITION TYPE

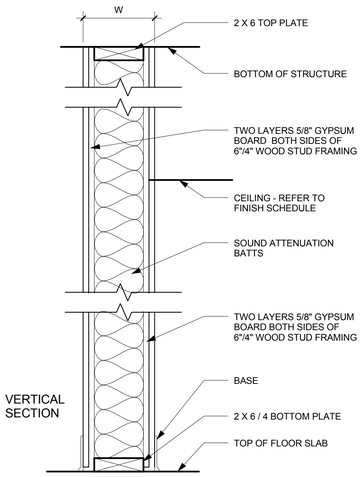
F

STC 45-49 UL: U337

DESCRIPTION

1 HOUR RATED PARTITION

W = AS PER 4" STUD SIZE



VERTICAL SECTION

PARTITION TYPE

G(6") & L(4")

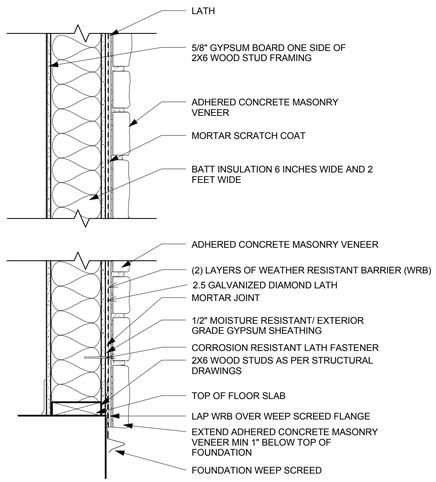
STC 45-49 UL: U334

DESCRIPTION

2 HOUR RATED PARTITION

W = AS PER 6" STUD SIZE

W = AS PER 4" STUD SIZE



EXTERIOR MASONRY WALL

H

UL: U356

DESCRIPTION

EXTERIOR MASONRY WALL.

1 HOUR FIRE RATED EXTERIOR LOAD BEARING WALL

1 HOUR FLOOR RATING BASED ON ICC ER-3433 AND ICC ESR-1153
1 HOUR ROOF RATING BASED ON UL P522

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Project No.	14-081	Sheet No.	A404
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Date	Feb. 27, 2015		

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3/2/2015 5:15:13 AM

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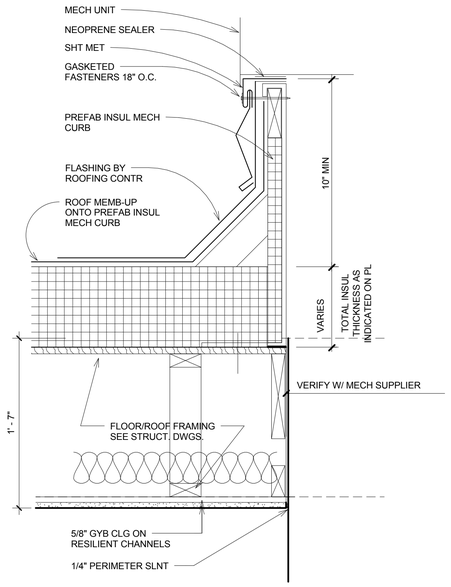
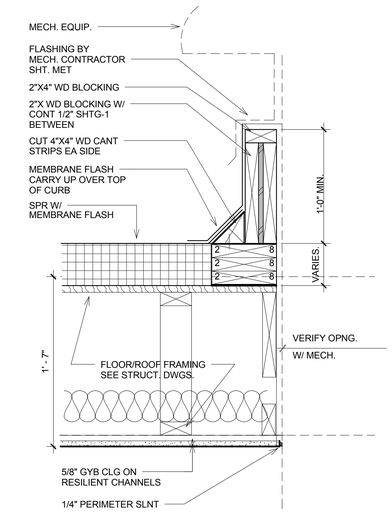
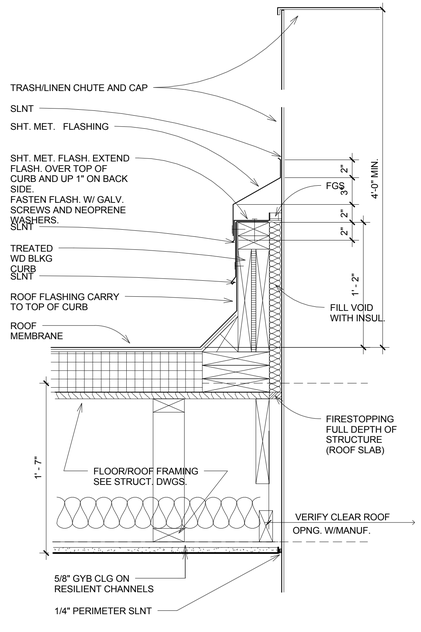


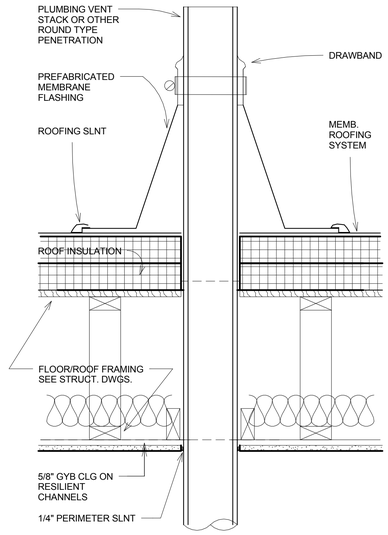
1 ROOF AHU CURB
1 1/2" = 1'-0"



2 ROOF EQUIP CURB
1 1/2" = 1'-0"

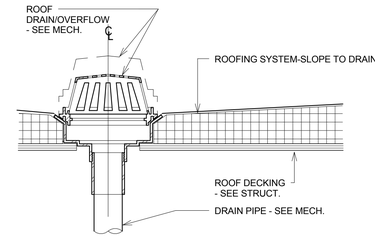


3 ROOF FLASHING AT LINEN CHUTE
1 1/2" = 1'-0"



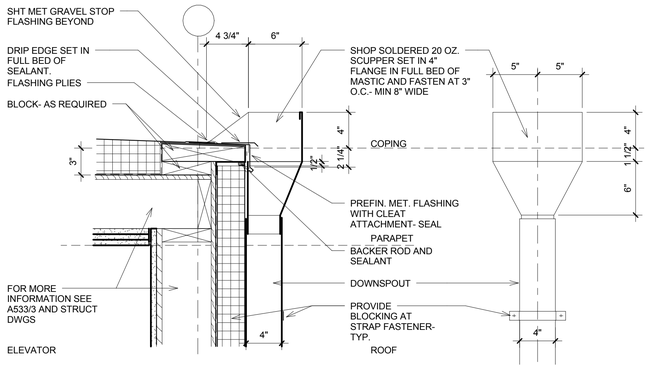
4 ROOF VENT
1 1/2" = 1'-0"

CONSTRUCTION NOTE:
EIFS THICKNESS IS TYPICALLY 1 3/4". WHERE INDICTAED ON EXTERIOR ELEVATION AS EIFS 3", ADJUST DETAIL FOR EIFS THICKNESS 3 1/4". SEE ALSO EIFS TRANSITION DETAILS FOR ADDITIONAL INFORMATION.
GUESTROOM DEMISING WALL REGIONAL PREFERENCE, IT IS ACCEPTABLE TO REPLACE THE SEPARATE WALL CONSTRUCTION FOR THE GUESTROOM DEMISING WALL WITH THE A SINGLE WALL USING COMMON 2X8 TOP AND BOTTOM PLATES AND STAGGERED STUDS.



5 ROOF DRAIN
1 1/2" = 1'-0"

CONSTRUCTION NOTE:
EIFS THICKNESS IS TYPICALLY 1 3/4". WHERE INDICTAED ON EXTERIOR ELEVATION AS EIFS 3", ADJUST DETAIL FOR EIFS THICKNESS 3 1/4". SEE ALSO EIFS TRANSITION DETAILS FOR ADDITIONAL INFORMATION.
GUESTROOM DEMISING WALL REGIONAL PREFERENCE, IT IS ACCEPTABLE TO REPLACE THE SEPARATE WALL CONSTRUCTION FOR THE GUESTROOM DEMISING WALL WITH THE A SINGLE WALL USING COMMON 2X8 TOP AND BOTTOM PLATES AND STAGGERED STUDS.



6 ROOF SCUPPER
1 1/2" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Roof Details

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A405
Checked by	Checker	
Date	Feb. 27, 2015	

Review

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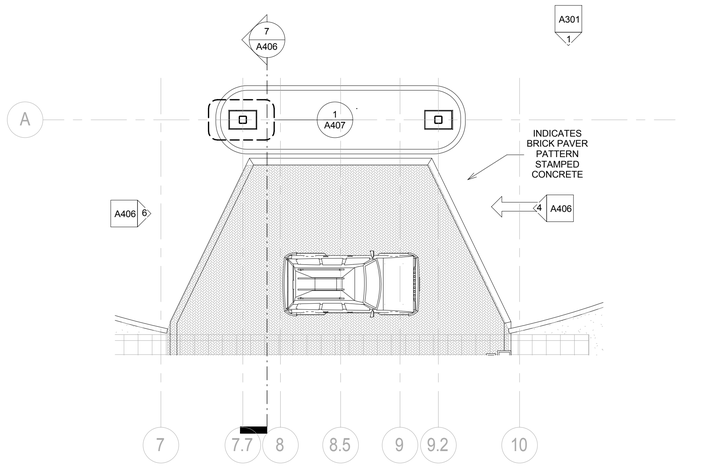
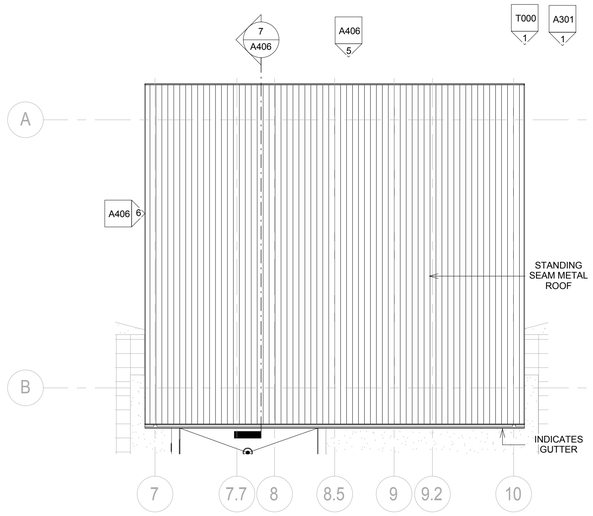
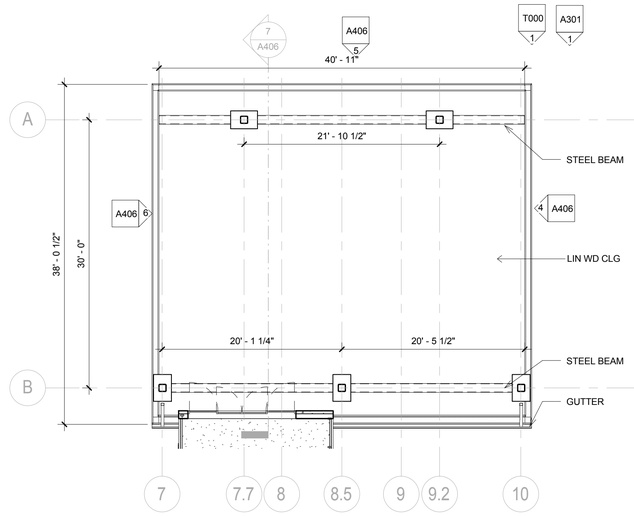


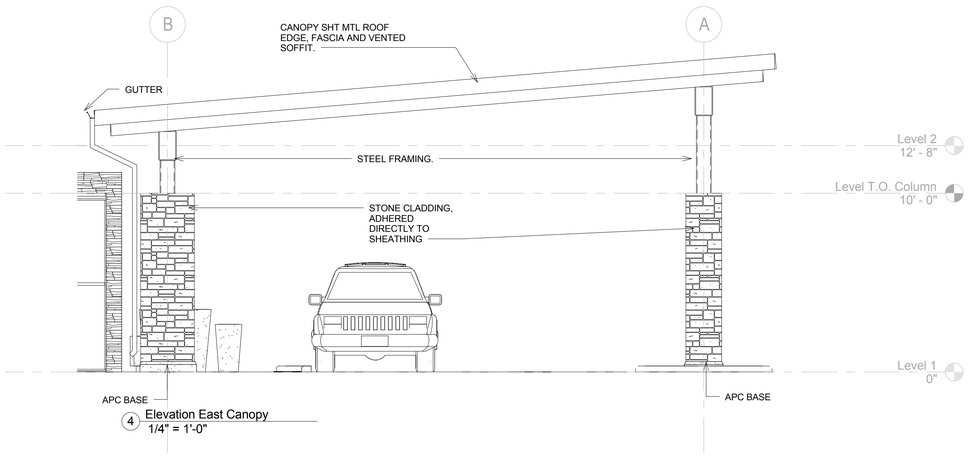
1 Level 1 Canopy Plan
1/8" = 1'-0"



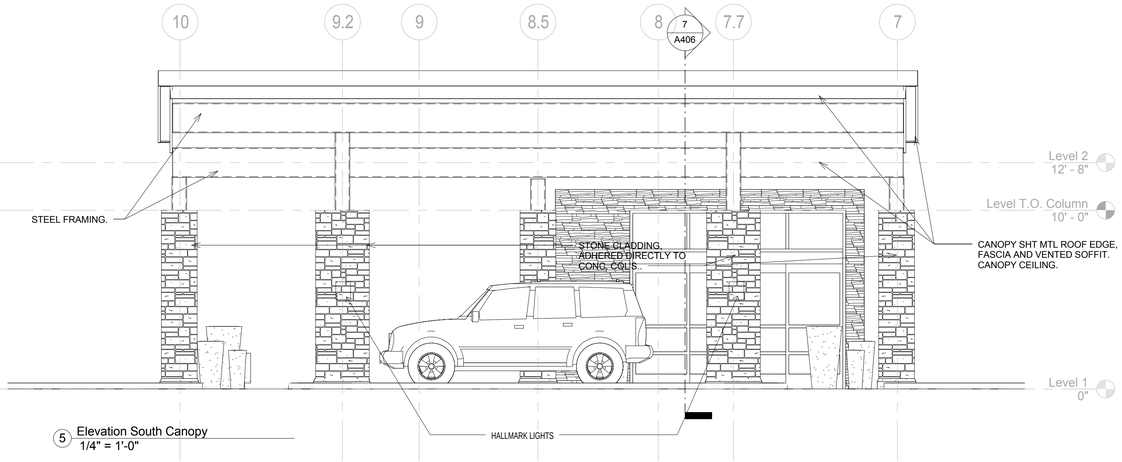
2 Canopy Roof Plan
1/8" = 1'-0"



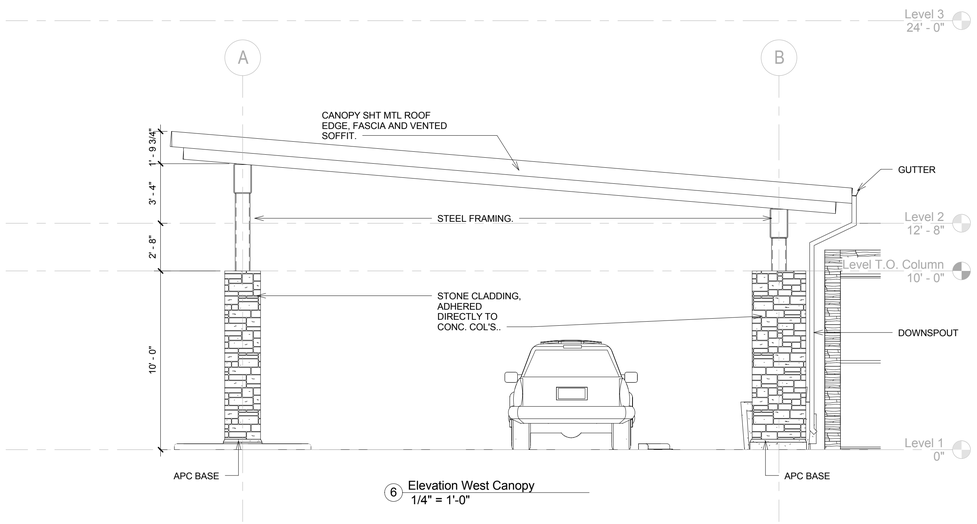
3 Reflected Ceiling Plan Canopy
1/8" = 1'-0"



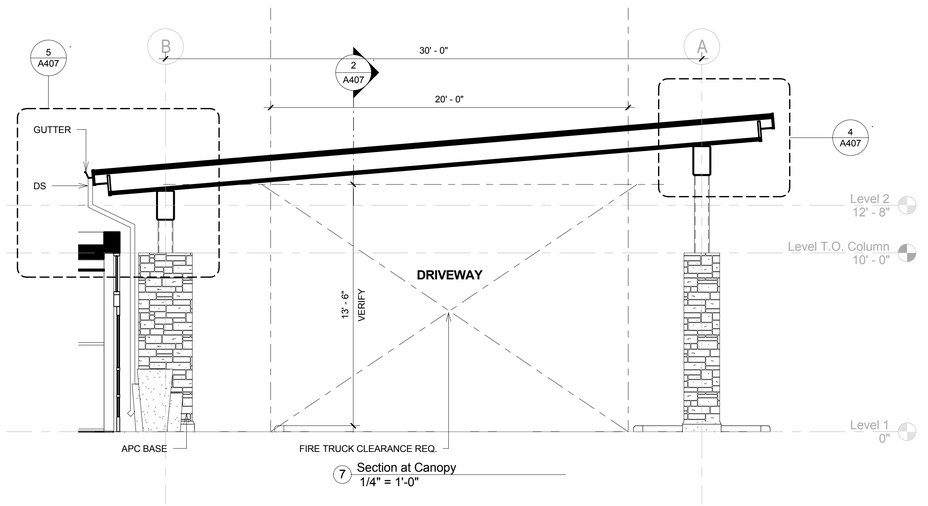
4 Elevation East Canopy
1/4" = 1'-0"



5 Elevation South Canopy
1/4" = 1'-0"



6 Elevation West Canopy
1/4" = 1'-0"



7 Section at Canopy
1/4" = 1'-0"

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REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Canopy Details

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Construction Documents

Project No.	14-081	Sheet No.	A406
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

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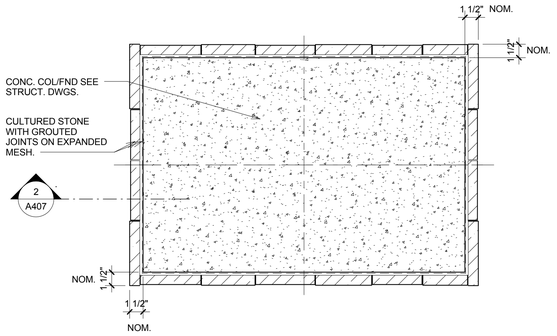
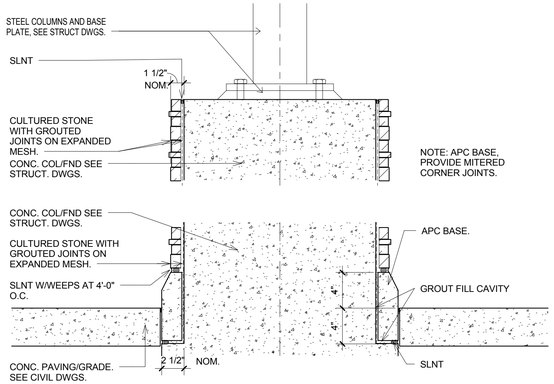
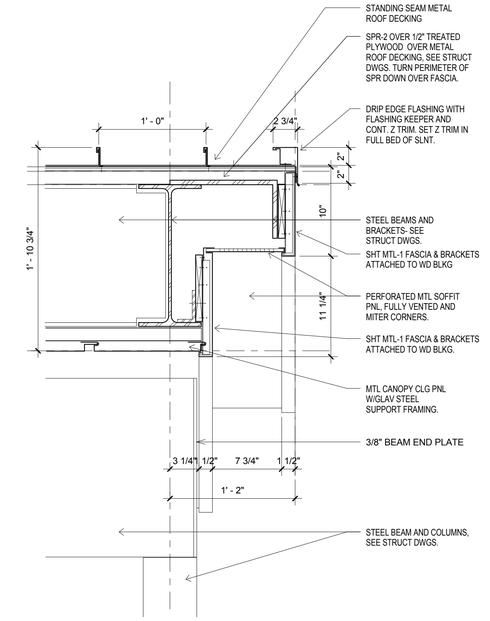


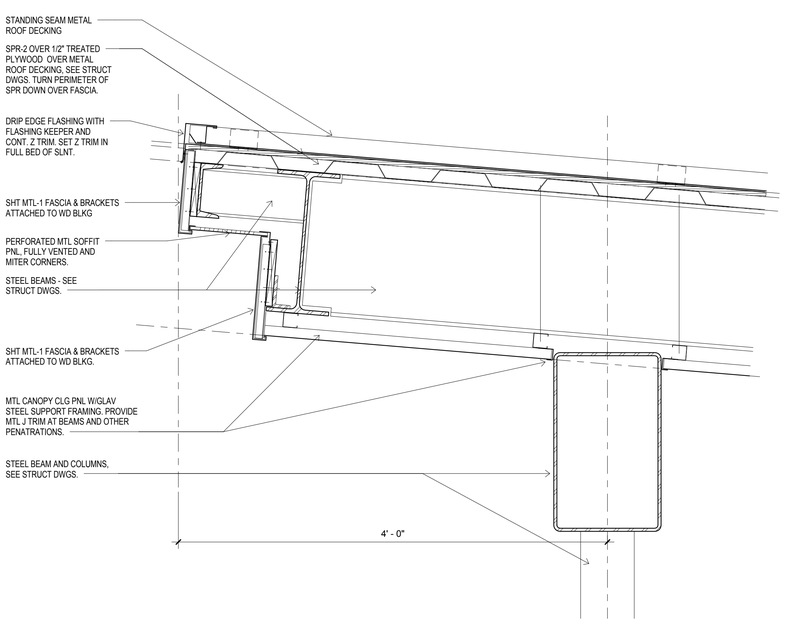
1 Canopy Column Plan
1 1/2" = 1'-0"



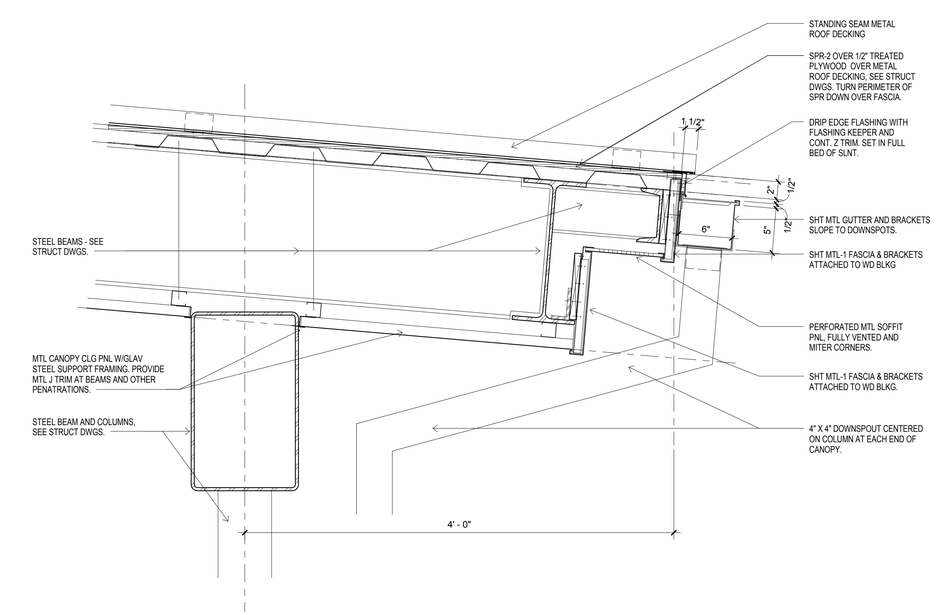
2 Canopy Column Section
1 1/2" = 1'-0"



3 Canopy Edge
1 1/2" = 1'-0"



4 Canopy Edge High End
1 1/2" = 1'-0"



5 Canopy Edge Low End
1 1/2" = 1'-0"

3/2/2015 5:15:20 AM

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REGISTERED ARCHITECT ASHISH K MISHRA 3536 STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

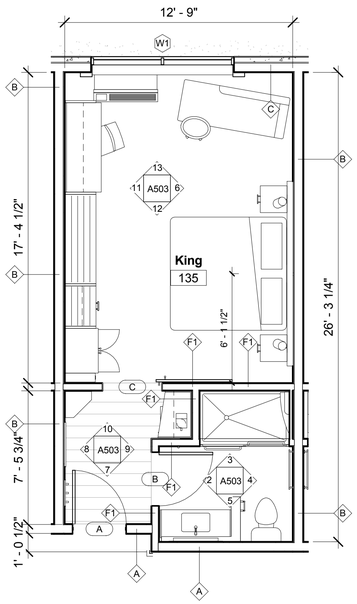
Drawing Title
Canopy Details

Phase
Construction Documents

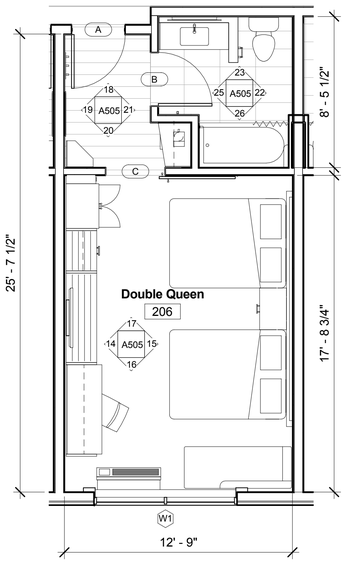
Project No.	14-081	Sheet No.	A407
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

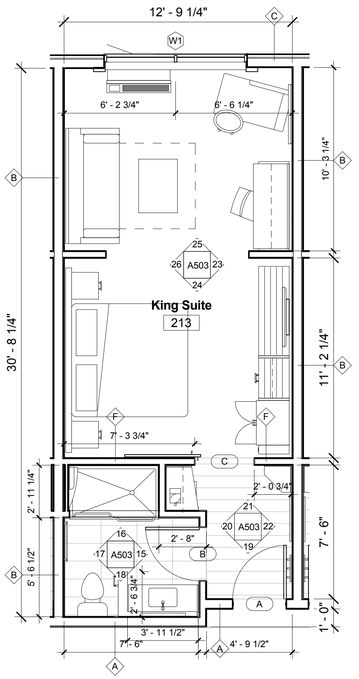
Holiday Inn Express & Suites



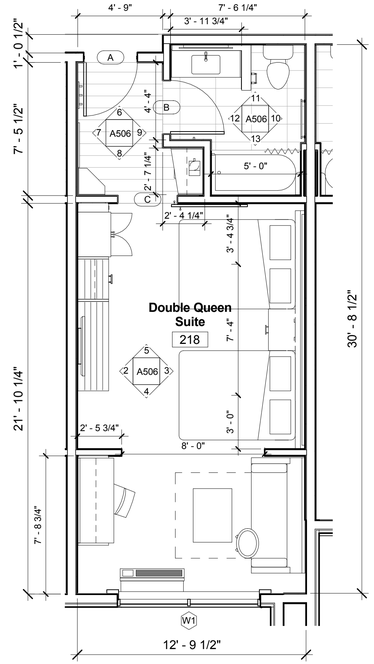
1 King
1/4" = 1'-0"



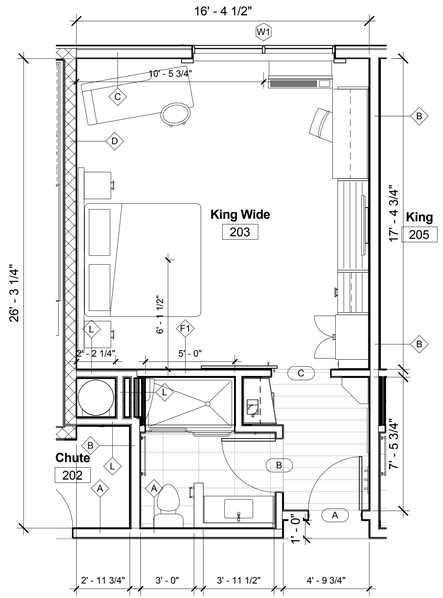
2 Double Queen
1/4" = 1'-0"



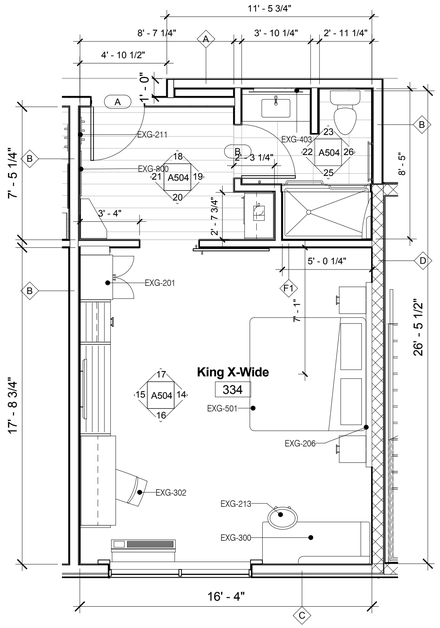
3 King Suite
1/4" = 1'-0"



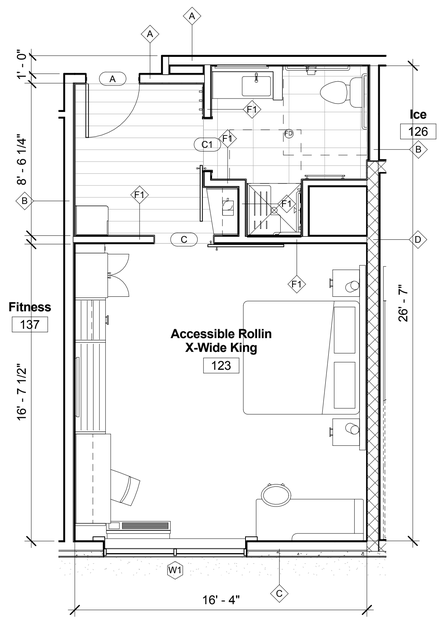
4 Double Queen Suite
1/4" = 1'-0"



5 King Wide
1/4" = 1'-0"



6 King X-Wide
1/4" = 1'-0"



7 Accessible Rollin X-Wide King
1/4" = 1'-0"

NOTE:

1. PROVIDE BLOCKING IN WALL IN ALL ROOMS TO FASTEN LCD T.V., PICTURE FRAMES, HEAD BOARDS, BEHIND ENTRY AND BATHROOM DOORS, ABOVE LUGGAGE RACK, COAT HANGERS, ROOM MIRROR, DRAPERY RODS, BUILT-IN TABLE, IRON BOARD HANGER, TOWEL RODS, SHOWER RODS, TOILET PAPER HOLDERS, TOWEL RACK, HANDRAIL IN BATH TUBS AND MAKEUP MIRROR. COORDINATE WITH OWNER FOR HEIGHTS AND SIZES OF FFE ITEMS AND LOCATION AND HEIGHTS OF SWITCHES, OUTLETS, LIGHT FIXTURE IN ROOMS.

2. TOILET LIGHT SCONCES TO BE @ 5'-6" A.F.F.

3. PROVIDE SILICON-BASED CAULKING AT ALL THE EDGES OF WALL PAPER TO AVOID ANY FUTURE PEALING OF EDGES.

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REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
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Southaven, MS 38671

Drawing Title
Room Layouts

Phase
Construction Documents

Project No.	14-081	Sheet No.	A501
Prepared by	Author		
Checked by	Checker		
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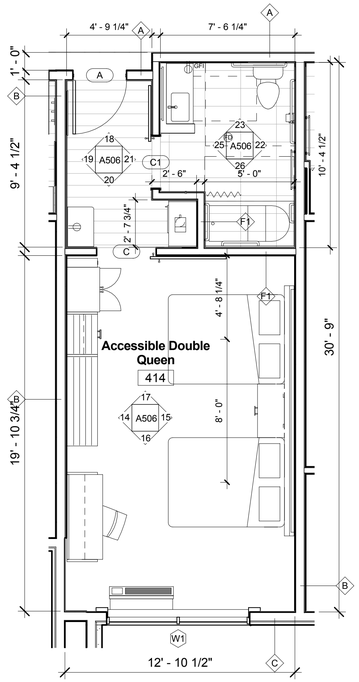
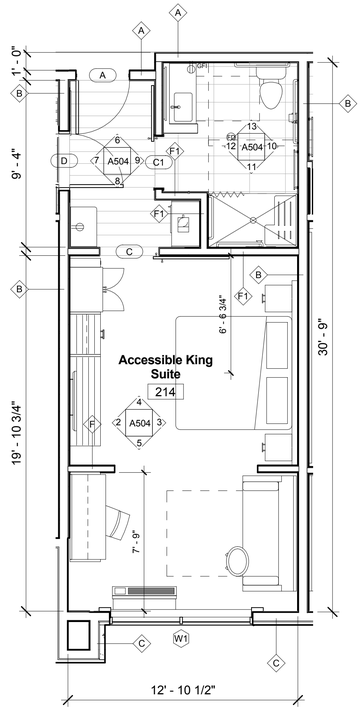
Holiday Inn Express & Suites

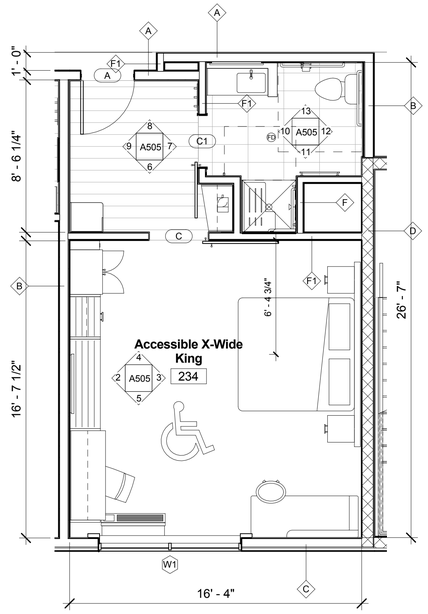
3/2/2015 5:15:23 AM



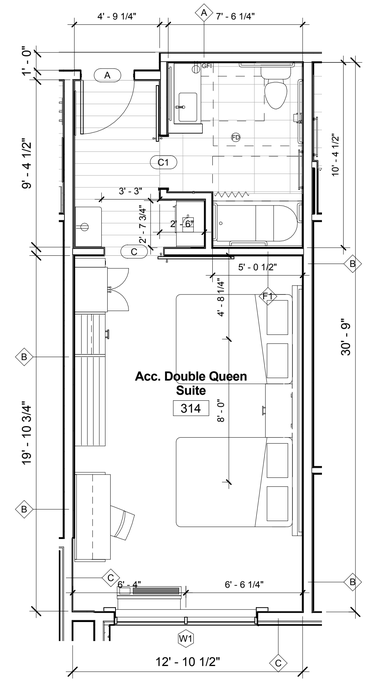
2 Accessible Double Queen
1/4" = 1'-0"



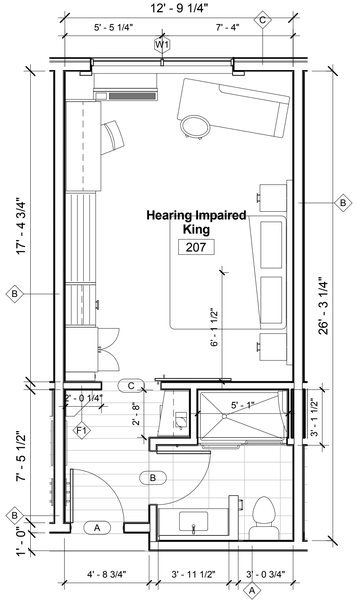
3 Accessible King Suite
1/4" = 1'-0"



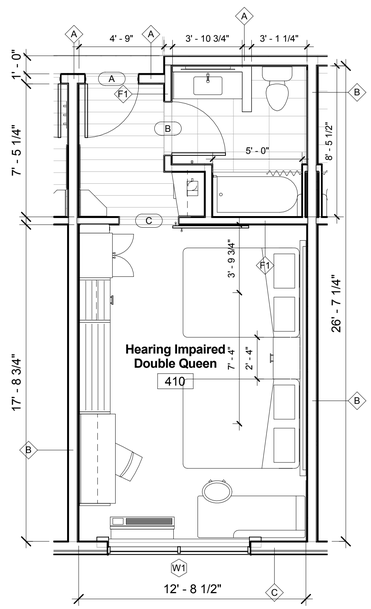
4 Accessible X-wide King
1/4" = 1'-0"



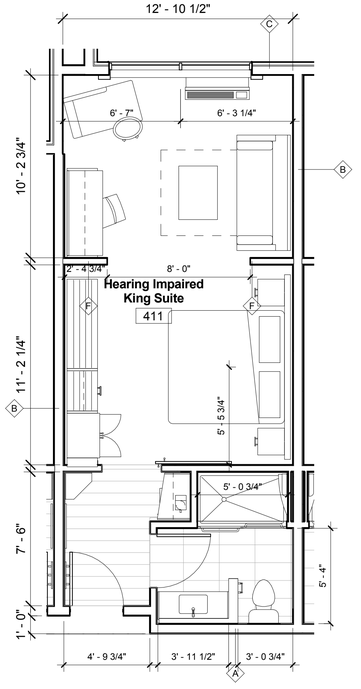
7 Accessible Double Queen Suite
1/4" = 1'-0"



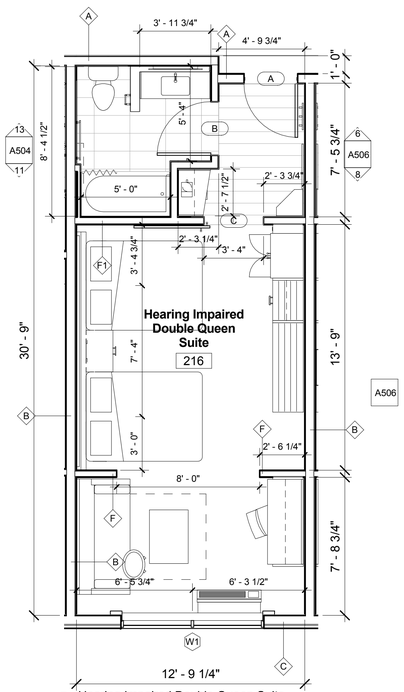
5 Hearing Impaired King
1/4" = 1'-0"



6 Hearing Impaired Double Queen
1/4" = 1'-0"



8 Hearing Impaired King Suite
1/4" = 1'-0"



9 Hearing Impaired Double Queen Suite
1/4" = 1'-0"

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KEY PLAN

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Holiday Inn Express & Suites

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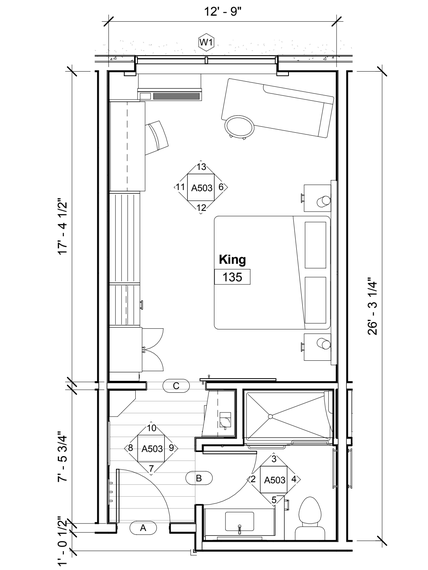
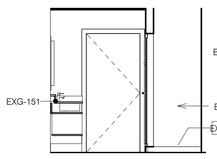
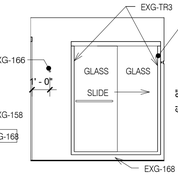


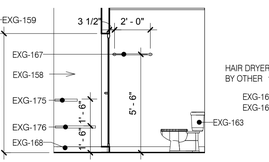
1 King Finishes
1/4" = 1'-0"



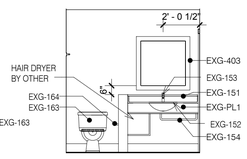
2 Elevation King Bath Door
1/4" = 1'-0"



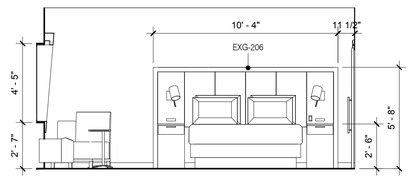
3 Elevation King Bath Shower
1/4" = 1'-0"



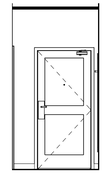
4 Elevation King Bath Toilet
1/4" = 1'-0"



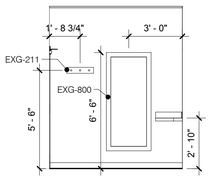
5 Elevation King Bath Vanity
1/4" = 1'-0"



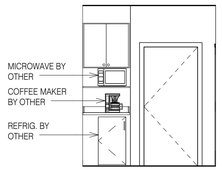
6 Elevation King Bed
1/4" = 1'-0"



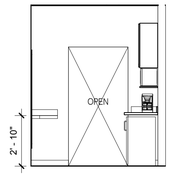
7 Elevation King Entry Door
1/4" = 1'-0"



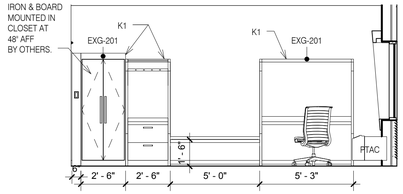
8 Elevation King Entry Mirror
1/4" = 1'-0"



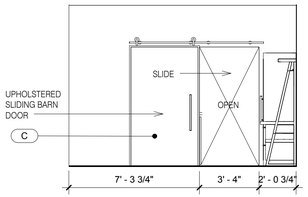
9 Elevation King Entry Refreshment
1/4" = 1'-0"



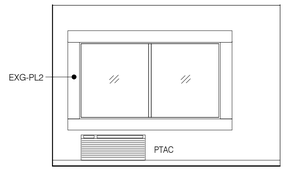
10 Elevation King Entry Sliding Door
1/4" = 1'-0"



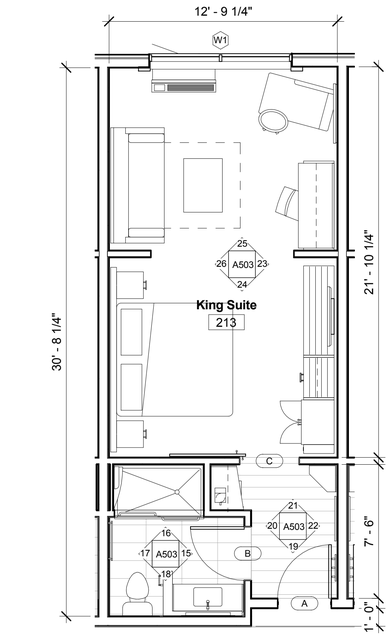
11 Elevation King Rack
1/4" = 1'-0"



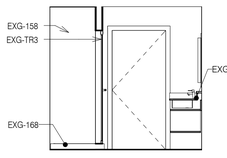
12 Elevation King Sliding Door
1/4" = 1'-0"



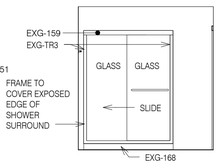
13 Elevation King Window
1/4" = 1'-0"



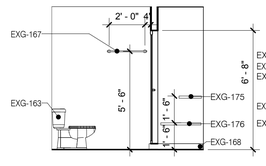
14 King Suite Finishes
1/4" = 1'-0"



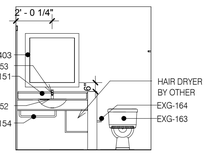
15 Elevation King Suite Bath Door
1/4" = 1'-0"



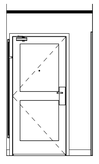
16 Elevation King Suite Bath Shower
1/4" = 1'-0"



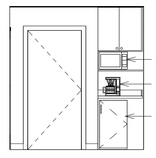
17 Elevation King Suite Bath Toilet
1/4" = 1'-0"



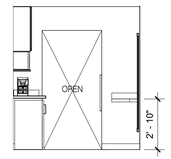
18 Elevation King Suite Bath Vanity
1/4" = 1'-0"



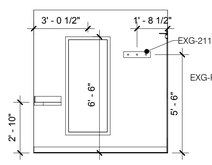
19 Elevation King Suite Entry Door
1/4" = 1'-0"



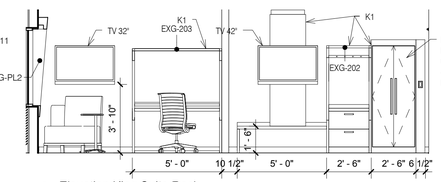
20 Elevation King Suite Entry Refreshments
1/4" = 1'-0"



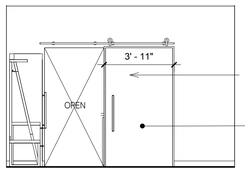
21 Elevation King Suite Entry Sliding Door
1/4" = 1'-0"



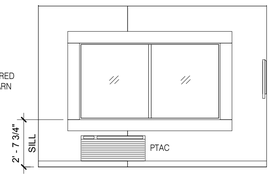
22 Elevation King Suite Entry Vanity
1/4" = 1'-0"



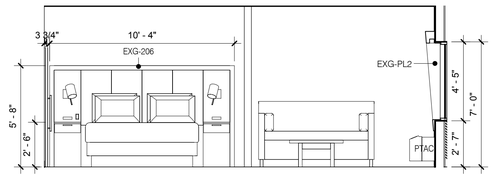
23 Elevation King Suite Rack
1/4" = 1'-0"



24 Elevation King Suite Sliding Door
1/4" = 1'-0"



25 Elevation King Suite Window
1/4" = 1'-0"



26 Elevation King Suite Bed
1/4" = 1'-0"

3/2/2015 5:15:32 AM

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REVISIONS		
No.	Date	Description
1		

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

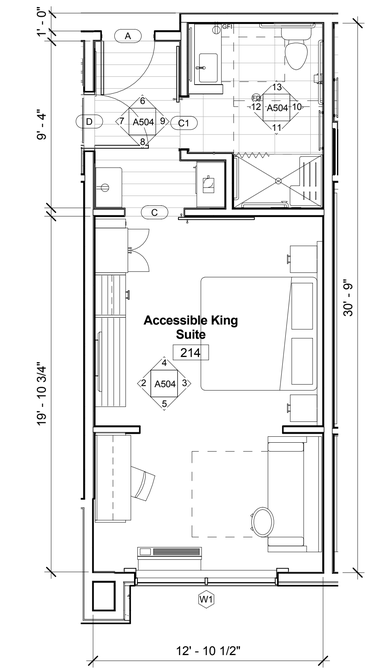
Drawing Title
King & King Suite

Phase
Construction Documents

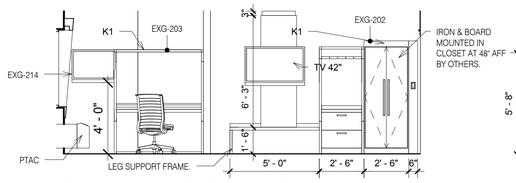
Project No.	14-081	Sheet No.
Prepared by	Author	A503
Checked by	Checker	
Date	Feb. 27, 2015	

Review

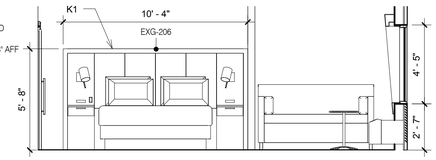
Holiday Inn Express & Suites



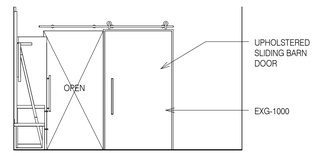
1 Accessible King Suite Finishes
1/4" = 1'-0"



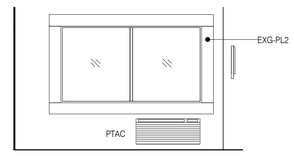
2 Elevation Accessible King Suite-Access Rack
1/4" = 1'-0"



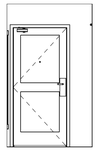
3 Elevation Accessible King Suite-Access Bed
1/4" = 1'-0"



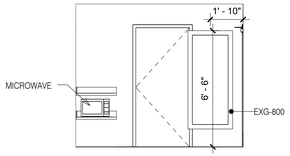
4 Elevation Accessible King Suite-Access Sliding Door
1/4" = 1'-0"



5 Elevation Accessible King Suite-Access Window
1/4" = 1'-0"

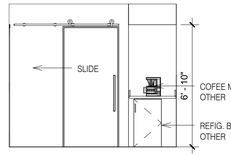


6 Elevation Accessible King Suite-Access Entry Door
1/4" = 1'-0"

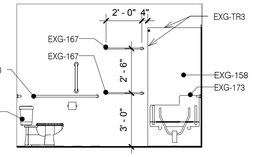


7 Elevation Accessible King Suite-Access Entry Mirror
1/4" = 1'-0"

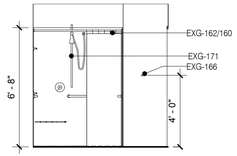
8 Elevation Accessible King Suite-Access Entry Sliding Door
1/4" = 1'-0"



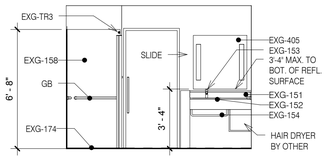
9 Elevation Accessible King Suite - Access Refreshments
1/4" = 1'-0"



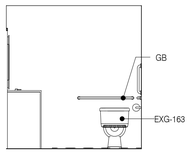
10 Elevation Accessible King Suite-Access Bath Toilet
1/4" = 1'-0"



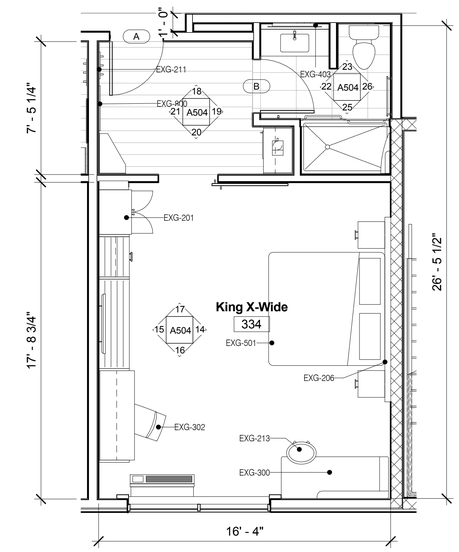
11 Elevation Accessible King Suite - Access Shower
1/4" = 1'-0"



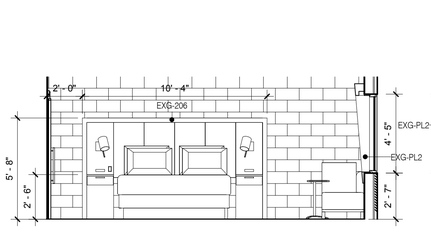
12 Elevation Accessible King Suite - Access Bath Vanity
1/4" = 1'-0"



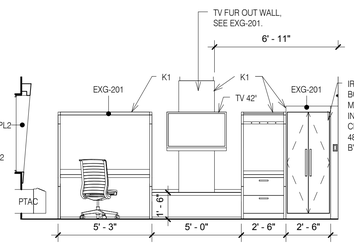
13 Elevation Accessible King Suite-Access_Bath Toilet
1/4" = 1'-0"



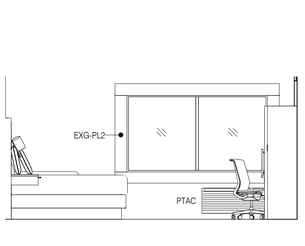
24 King X-Wide Finishes
1/4" = 1'-0"



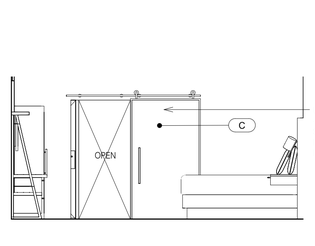
14 Elevation King X-Wide - Bed
1/4" = 1'-0"



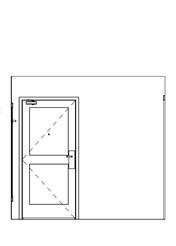
15 Elevation King X-Wide - Rack
1/4" = 1'-0"



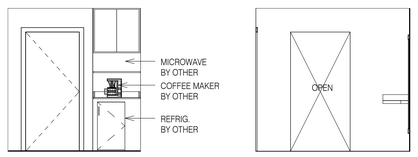
16 Elevation King X-Wide - Window
1/4" = 1'-0"



17 Elevation King X-Wide - Sliding Door
1/4" = 1'-0"

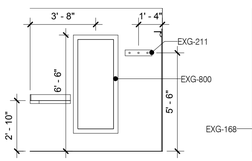


18 Elevation King X-Wide - Entry Door
1/4" = 1'-0"

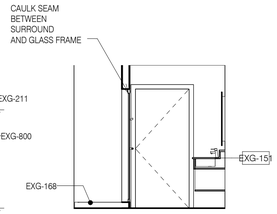


19 Elevation King X-Wide - Entry Refreshments
1/4" = 1'-0"

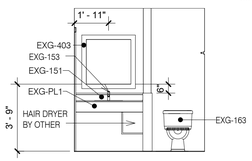
20 Elevation King X-Wide - Entry Sliding Door
1/4" = 1'-0"



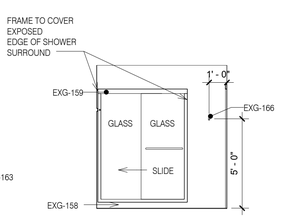
21 Elevation King X-Wide - Entry Mirror
1/4" = 1'-0"



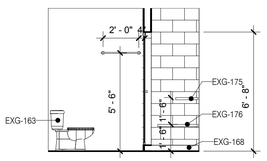
22 Elevation King X-Wide - Bath Door
1/4" = 1'-0"



23 Elevation King X-Wide - Bath Vanity
1/4" = 1'-0"



25 Elevation King X-Wide - Bath Shower
1/4" = 1'-0"



26 Elevation King X-Wide - Bath Toilet
1/4" = 1'-0"

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REVISIONS		
No.	Date	Description
1		

REGISTERED ARCHITECT ASHISH MISHRA 8536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Accessible King Suite & King X wide

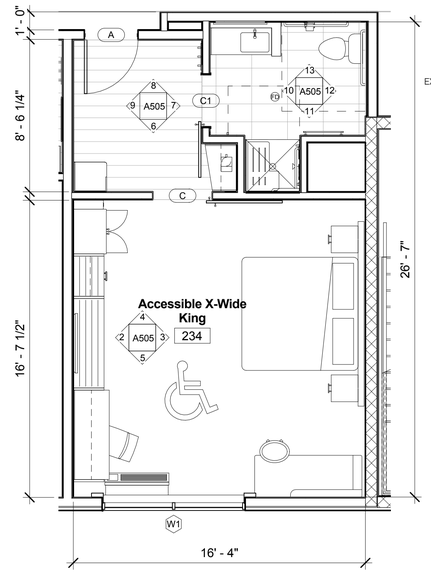
Phase
Construction Documents

Project No.	14-081	Sheet No.	A504
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

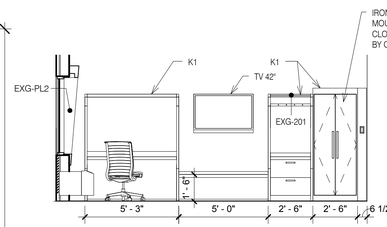
Review

Holiday Inn Express & Suites

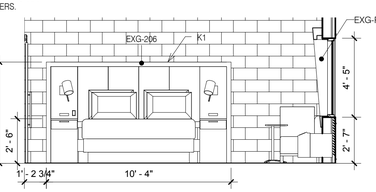
3/2/2015 5:15:37 AM



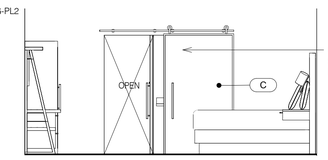
1 Accessible X-wide King Finishes
1/4" = 1'-0"



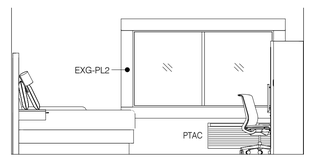
2 Elevation Accessible X-Wide King - Rack
1/4" = 1'-0"



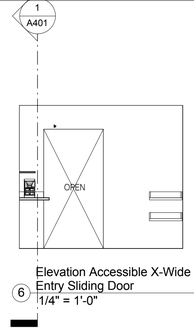
3 Elevation Accessible X-Wide King - Bed
1/4" = 1'-0"



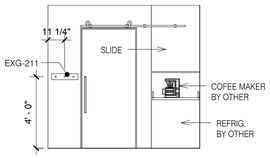
4 Elevation Accessible X-Wide King - Sliding Door
1/4" = 1'-0"



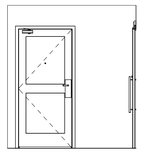
5 Elevation Accessible X-Wide King - Window
1/4" = 1'-0"



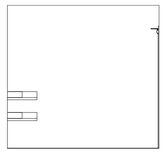
6 Elevation Accessible X-Wide King - Entry Sliding Door
1/4" = 1'-0"



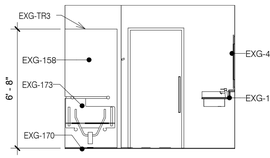
7 Elevation Accessible X-Wide King - Entry Refreshments
1/4" = 1'-0"



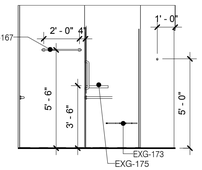
8 Elevation Accessible X-Wide King - Entry Door
1/4" = 1'-0"



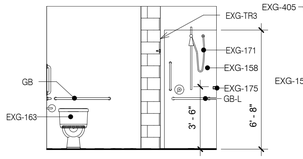
9 Elevation Accessible X-Wide King - Entry Mirror
1/4" = 1'-0"



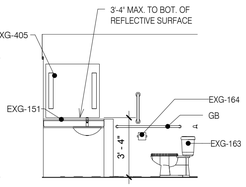
10 Elevation Accessible X-Wide King - Bath Door
1/4" = 1'-0"



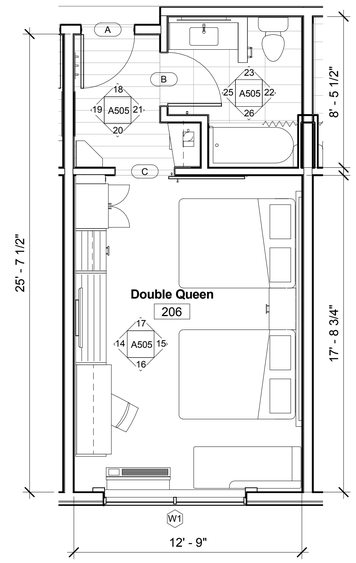
11 Elevation Accessible X-Wide King - Bath Shower
1/4" = 1'-0"



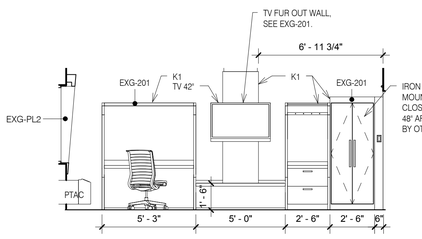
12 Elevation Accessible X-Wide King - Bath Toilet
1/4" = 1'-0"



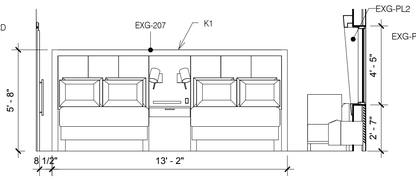
13 Elevation Accessible X-Wide King - Bath Vanity
1/4" = 1'-0"



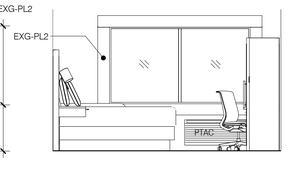
24 Double Queen Finishes
1/4" = 1'-0"



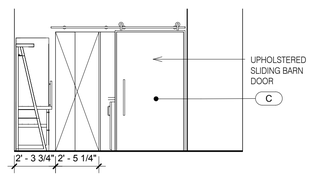
14 Elevation Double Queen - Rack
1/4" = 1'-0"



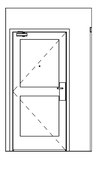
15 Elevation Double Queen - Bed
1/4" = 1'-0"



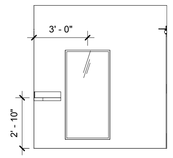
16 Elevation Double Queen - Window
1/4" = 1'-0"



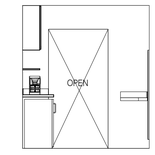
17 Elevation Double Queen - Sliding Door
1/4" = 1'-0"



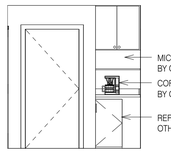
18 Elevation Double Queen - Entry Door
1/4" = 1'-0"



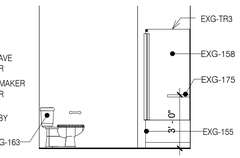
19 Elevation Double Queen - Entry Mirror
1/4" = 1'-0"



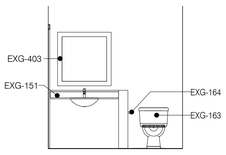
20 Elevation Double Queen - Entry Sliding Door
1/4" = 1'-0"



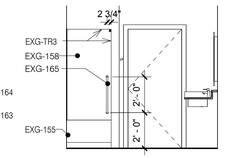
21 Elevation Double Queen - Entry Right
1/4" = 1'-0"



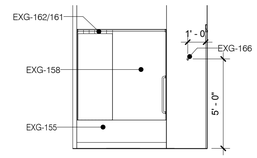
22 Elevation Double Queen - BathToilet
1/4" = 1'-0"



23 Elevation Double Queen - Bath Shower Door
1/4" = 1'-0"



25 Elevation Double Queen - Bath Sliding Door
1/4" = 1'-0"



26 Elevation Double Queen - Bath Back
1/4" = 1'-0"

3/2/2015 5:15:42 AM

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REVISIONS		
No.	Date	Description
1		

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

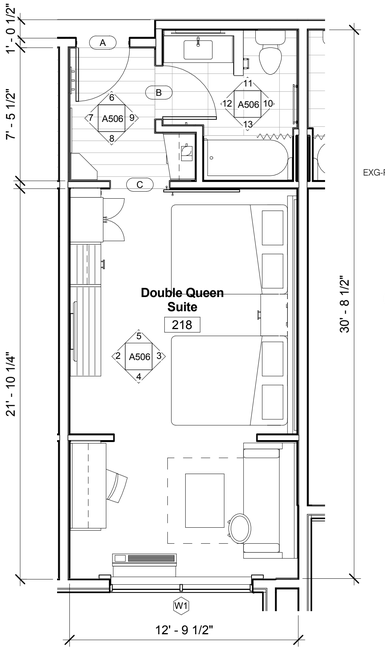
Drawing Title
Accessible X wide King and Double Queen

Phase
Construction Documents

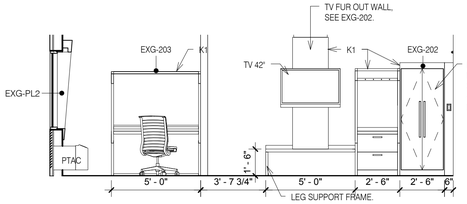
Project No.	14-081	Sheet No.
Prepared by	Author	A505
Checked by	Checker	
Date	Feb. 27, 2015	

Review

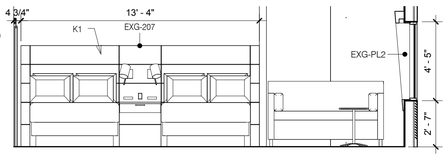
Holiday Inn Express & Suites



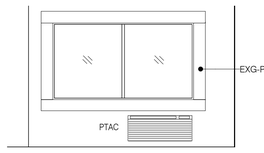
1 Double Queen Suite Finishes
1/4" = 1'-0"



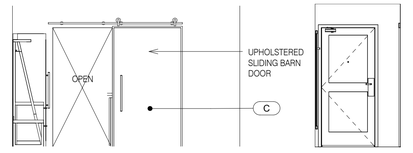
2 Elevation Double Queen Suite - Rack
1/4" = 1'-0"



3 Elevation Double Queen Suite - Bed
1/4" = 1'-0"

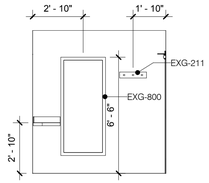


4 Elevation Double Queen Suite - Window
1/4" = 1'-0"

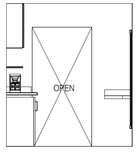


5 Elevation Double Queen Suite - Sliding Door
1/4" = 1'-0"

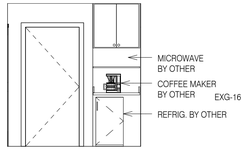
6 Elevation Double Queen Suite - Entry Door
1/4" = 1'-0"



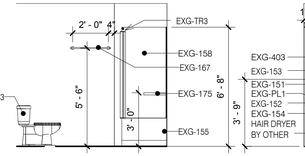
7 Elevation Double Queen Suite - Entry Mirror
1/4" = 1'-0"



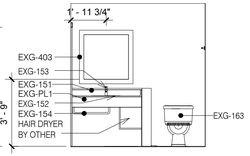
8 Elevation Double Queen Suite - Entry Sliding Door
1/4" = 1'-0"



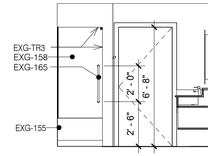
9 Elevation Double Queen Suite - Entry Refreshments
1/4" = 1'-0"



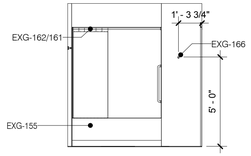
10 Elevation Double Queen Suite - Bath Toilet
1/4" = 1'-0"



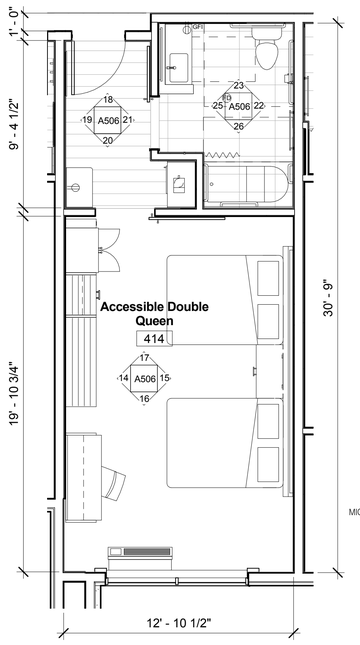
11 Elevation Double Queen Suite - Bath Vanity
1/4" = 1'-0"



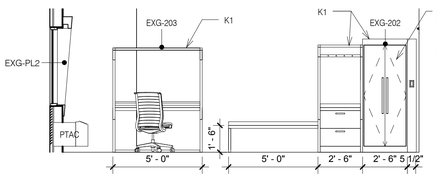
12 Elevation Double Queen Suite - Bath Door
1/4" = 1'-0"



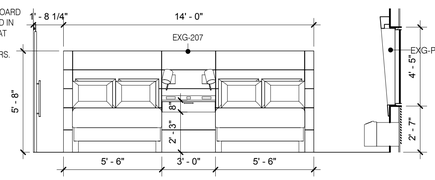
13 Elevation Double Queen Suite - Bath Tub
1/4" = 1'-0"



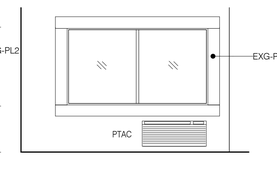
24 Accessible Double Queen Finishes
1/4" = 1'-0"



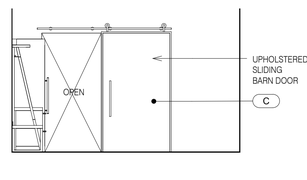
14 Elevation Accessible Double Queen - Rack
1/4" = 1'-0"



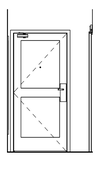
15 Elevation Accessible Double Queen - Bed
1/4" = 1'-0"



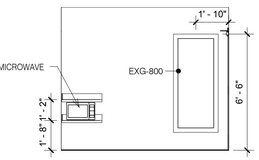
16 Elevation Accessible Double Queen - Window
1/4" = 1'-0"



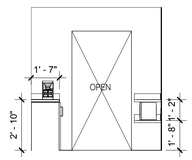
17 Elevation Accessible Double Queen - Sliding Door
1/4" = 1'-0"



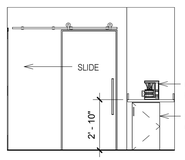
18 Elevation Accessible Double Queen - Entry Door
1/4" = 1'-0"



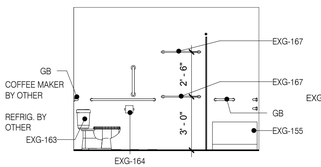
19 Elevation Accessible Double Queen - Entry Mirror
1/4" = 1'-0"



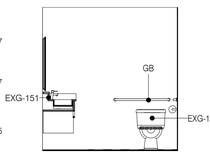
20 Elevation Accessible Double Queen - Entry Sliding Door
1/4" = 1'-0"



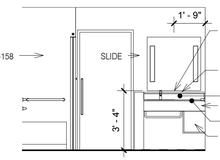
21 Elevation Accessible Double Queen - Entry Refreshments
1/4" = 1'-0"



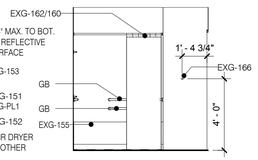
22 Elevation Accessible Double Queen - Bath Toilet
1/4" = 1'-0"



23 Elevation Accessible Double Queen - Bath Toilet & Vanity
1/4" = 1'-0"



25 Elevation Accessible Double Queen - Bath Vanity
1/4" = 1'-0"



26 Elevation Accessible Double Queen - Bath Shower
1/4" = 1'-0"

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REVISIONS		
No.	Date	Description
1		

REGISTERED ARCHITECT
ASHISH MISHRA
8536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Double Queen Suite and Accessible Double Queen

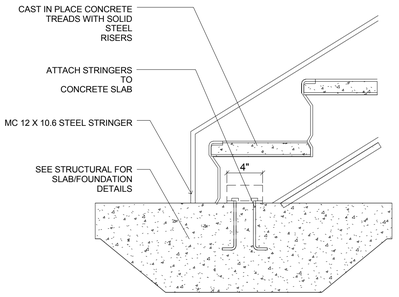
Phase
Construction Documents

Project No.	14-081	Sheet No.	A506
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

3/2/2015 5:15:47 AM

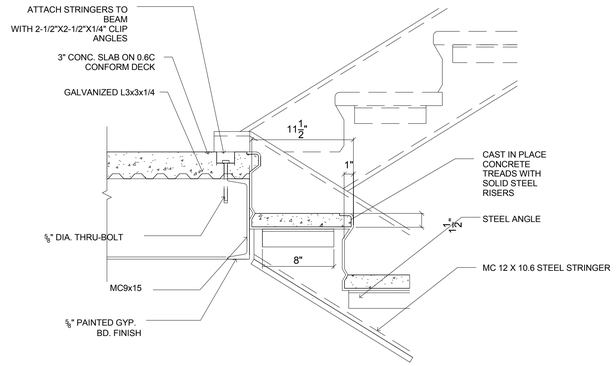
Holiday Inn Express & Suites



A STAIRS DETAIL-FIRST FLIGHT

0 4" 8" 1'-4"

SCALE: 1 1/2" = 1'-0"



B STAIRS DETAIL-TYPICAL FLIGHT

0 4" 8" 1'-4"

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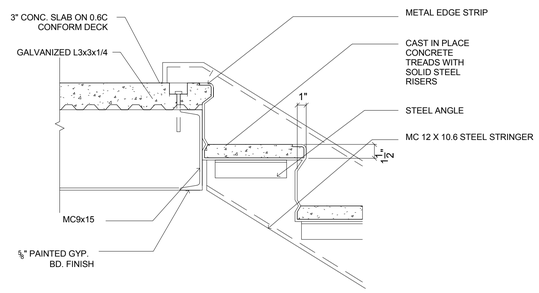

C STAIRS DETAIL-LAST FLIGHT

0 4" 8" 1'-4"

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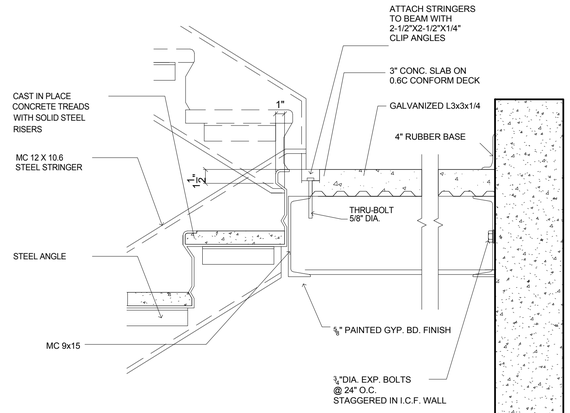
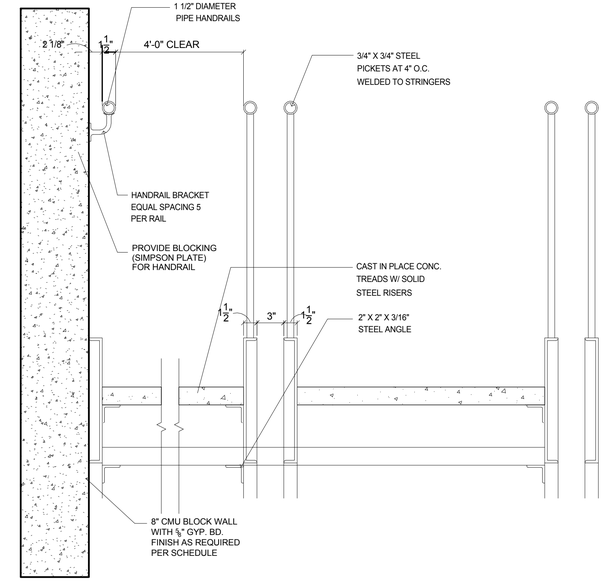


D STAIRS DETAIL MID-LANDING

0 4" 8" 1'-4"

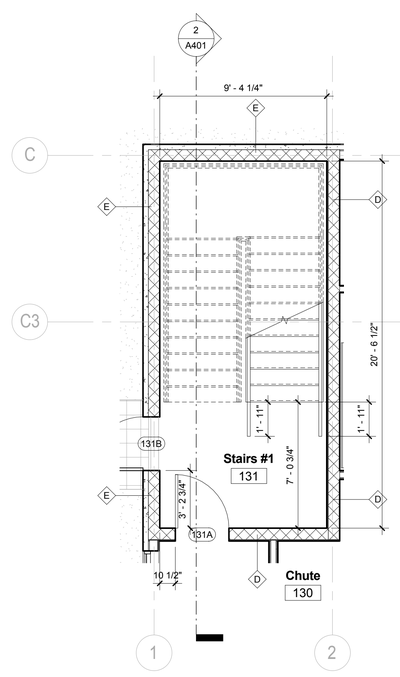
SCALE: 1 1/2" = 1'-0"



E RAILING DETAIL

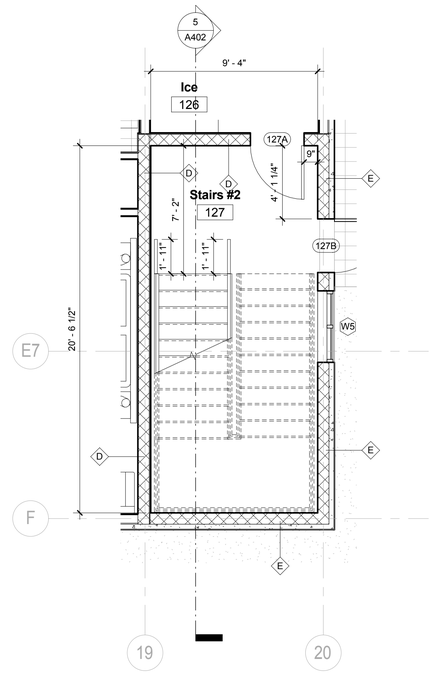
0 4" 8" 1'-4"

SCALE: 1 1/2" = 1'-0"



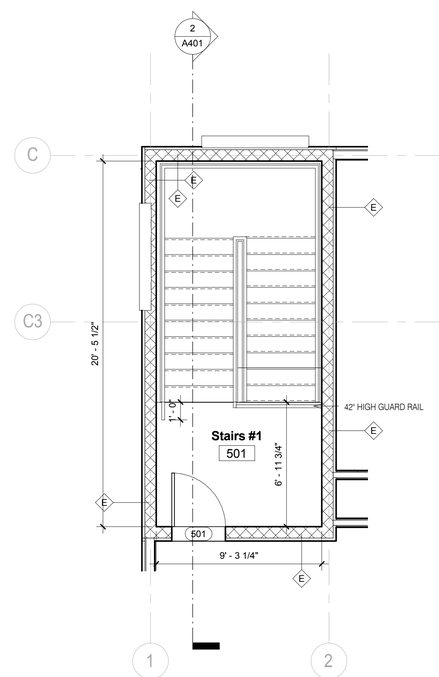
1 Stairs #1

1/4" = 1'-0"



3 Stairs #2

1/4" = 1'-0"



4 Stairs #1 Roof Level

1/4" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

Stair Details

Phase

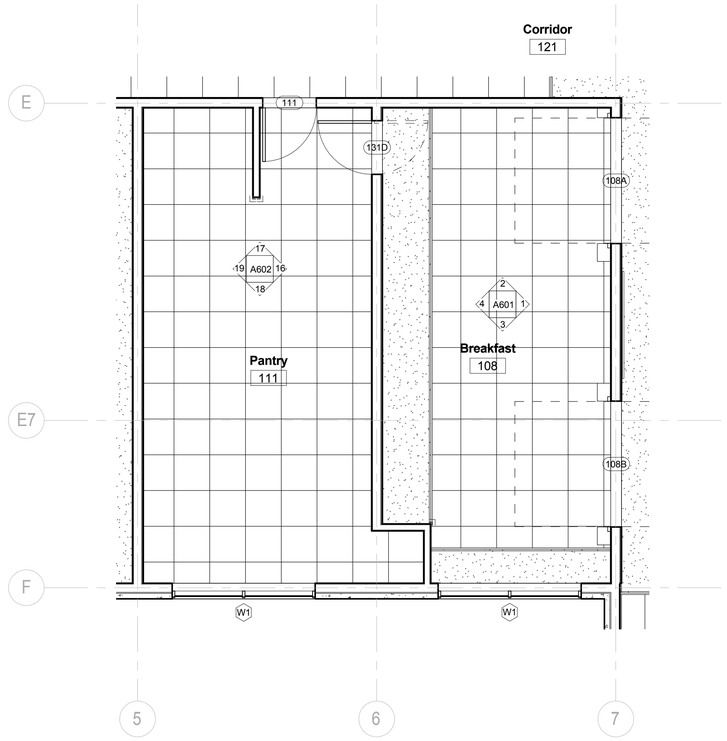
Construction Documents

Project No.	14-081	Sheet No.	A520
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

3/2/2015 5:15:49 AM

Holiday Inn Express & Suites

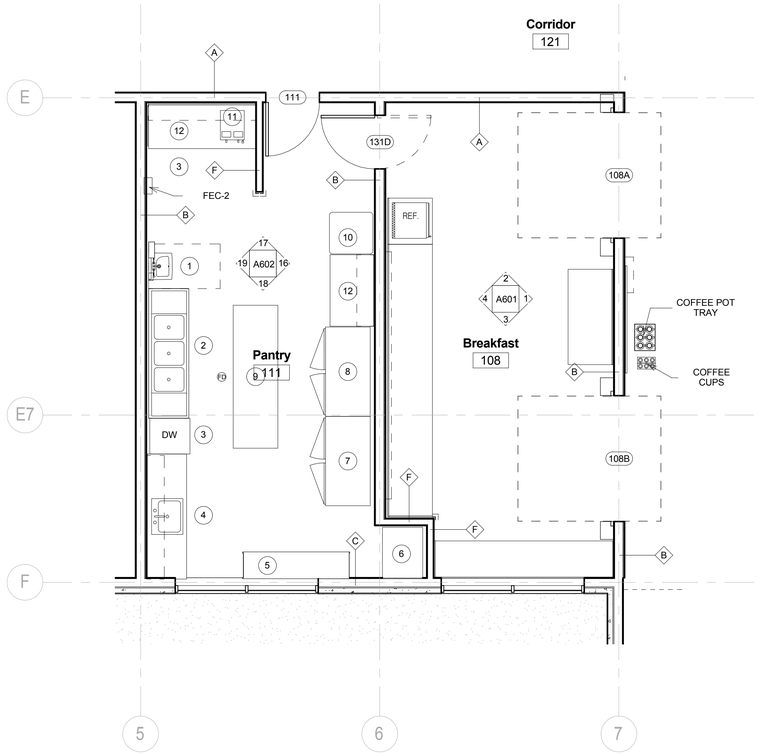


2 Breakfast Pantry Reflected Ceiling Plan
1/4" = 1'-0"

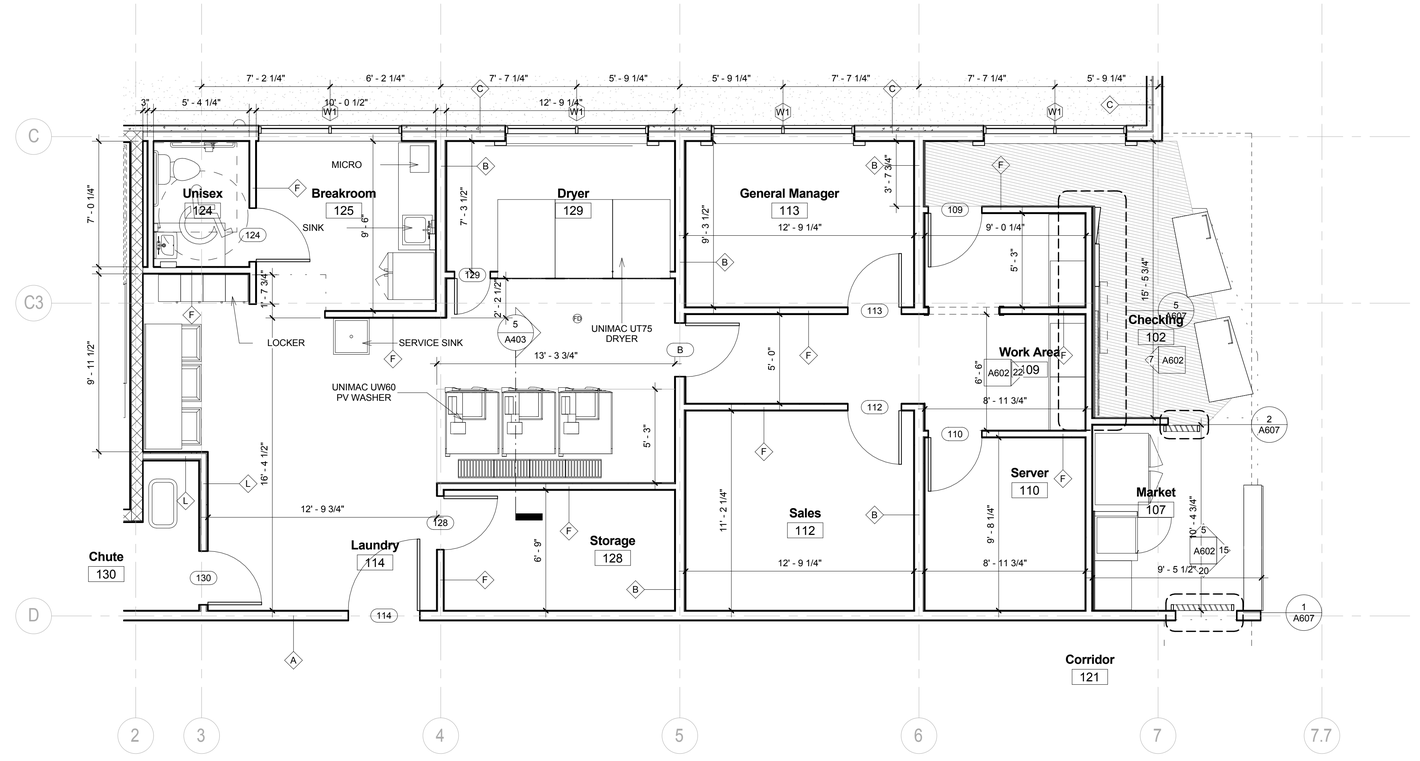
PANTRY EQUIPMENT LEGEND	
1	HAND WASH SINK.
2	TRIPLE PREP SINK
3	DISHWASHER
4	SINK
5	SHELVING
6	ICE
7	REFRIGERATOR
8	FREEZER
9	ISLAND COUNTERTOP
10	OVEN
11	COFFEE MAKER
12	BENCH WITH SHELF ABOVE

HAND WASH SINK:
SEE BUILDING AND BATHROOM ACCESSORIES AND PLUMBING DWGS.

ALL KITCHEN EQUIPMENT IS BY OTHERS.



1 Breakfast & Pantry
1/4" = 1'-0"



3 Back of House
1/4" = 1'-0"

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No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Administrative Area Layout

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A521
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

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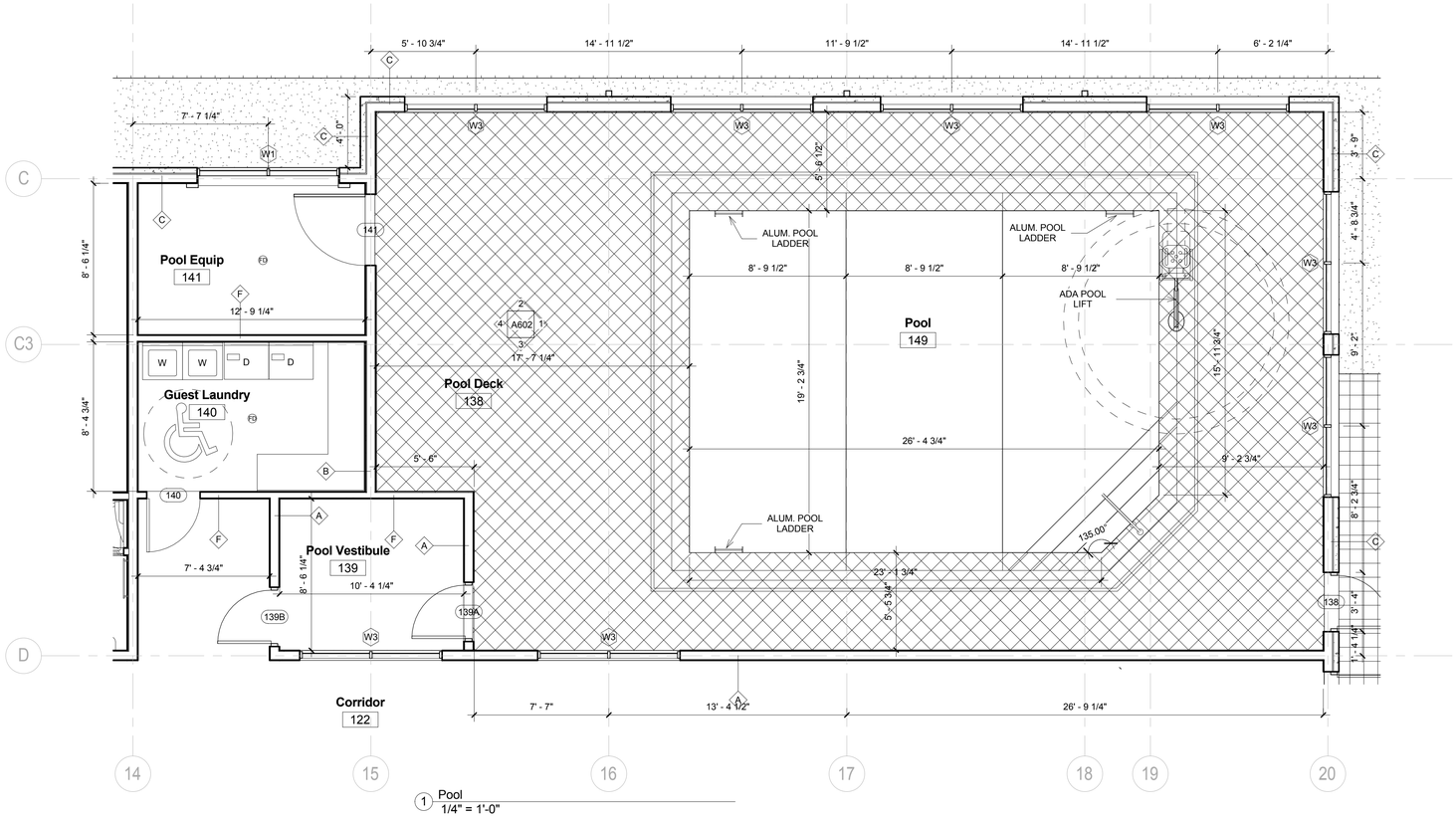


1 Pool
1/4" = 1'-0"

GENERAL NOTES

1. HANDRAIL AND LADDER SHALL BE 1 1/2" DIA. STAINLESS STEEL.

2. THE POOL DRAWINGS & RELATED SPECS. ARE TO BE CONSIDERED AS MINIMUM REQUIREMENTS. THE G.C. & POOL CONTRACTOR ARE RESPONSIBLE FOR THE IMPLEMENTATION OF ALL APPLICABLE CODES ASSOCIATED WITH THE CONSTRUCTION TECHNIQUE OF THE POOL AREA & THE POOL EQUIPMENT ROOM.

3. DRAINAGE FOR THE DECK AREA MUST BE PROVIDED BY TRENCH DRAIN OR SLOPING DECK TOWARDS LANDSCAPED AREA. CONTRACTOR TO PROVIDE TWO POOL DRAINS.

4. AN EMERGENCY HOUSE PHONE MUST BE PROVIDED AT THE POOL. IT MUST BE IN A WEATHER TIGHT ENCLOSURE. WHEN THE RECEIVER IS LIFTED, THE PHONE MUST AUTOMATICALLY DIAL THE FRONT DESK. THE TOP OF THE PHONE MUST BE MOUNTED NO HIGHER THAN 48" FROM THE FLOOR.

5. GENERAL CONTRACTOR TO PROVIDE UNDERWATER LIGHTS AND CONNECTIONS TO POOL DRAINS.

6. PROVIDE PROFESSIONALLY DESIGNED AND MANUFACTURED INTERNATIONAL NO DIVING EMBLEM AND DEPTH MARKINGS AS DESCRIBED BELOW. (PAINTED DEPTH MARKINGS ARE NOT PERMITTED)
-DEPTH MARKINGS: DEPTH MUST BE CLEARLY SHOWN ON BOTH THE TOP AND SIDE (ABOVE THE WATER LINE) OF THE SWIMMING POOL COPING. DEPTH MARKINGS MUST BE COMMERCIAL GRADE AND INDICATE BOTH FEET AND METERS ON THE TOP OF THE POOL COPING AND FEET ON THE SIDE OF THE POOL COPING. PAINTED DEPTH MARKINGS ARE NOT PERMITTED; SLIP PROOF TILES ARE REQUIRED.
-NO DIVING: COMMERCIAL GRADE "NO DIVING" AND THE INTERNATIONAL SYMBOL MUST BE DISPLAYED ON THE TOP SIDE OF THE POOL COPING NEAR THE DEPTH MARKINGS. THE WORDS AND SYMBOL MUST BE DISPLAYED IN CONTRASTING COLORS TO THE BACKGROUND.

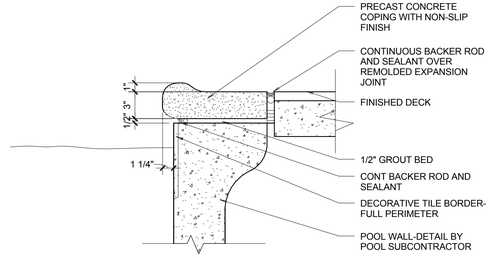
7. THE 2010 ADA STANDARDS REQUIRE THAT ALL POOLS OFFER ONE OR MORE ACCESSIBLE MEANS OF ENTRY (AS DEFINED BY THE 2010 ADA STANDARDS) FOR DISABLED GUESTS, DEPENDING ON THE SIZE OF THE POOL. TO THE EXTENT A POOL LIFT IS PROVIDED TO SATISFY THIS REQUIREMENT, THE LIFT MUST BE OPERABLE BY THE GUEST WITHOUT ASSISTANCE. REFER TO 2010 ADA STANDARDS FOR ALL NEW REQUIREMENTS. SUBMIT LOCATION OF POOL LIFT AT THE POOL AND SHOW THE REQUIRED MANEUVERING CLEARANCES.

8. PROVIDE THE REQUIRED POOL ACCESSORIES INCLUDING: SHEPHERD'S HOOK, RING, ROPE, ETC. SEE BRAND STANDARDS FOR COMPLETE LIST.

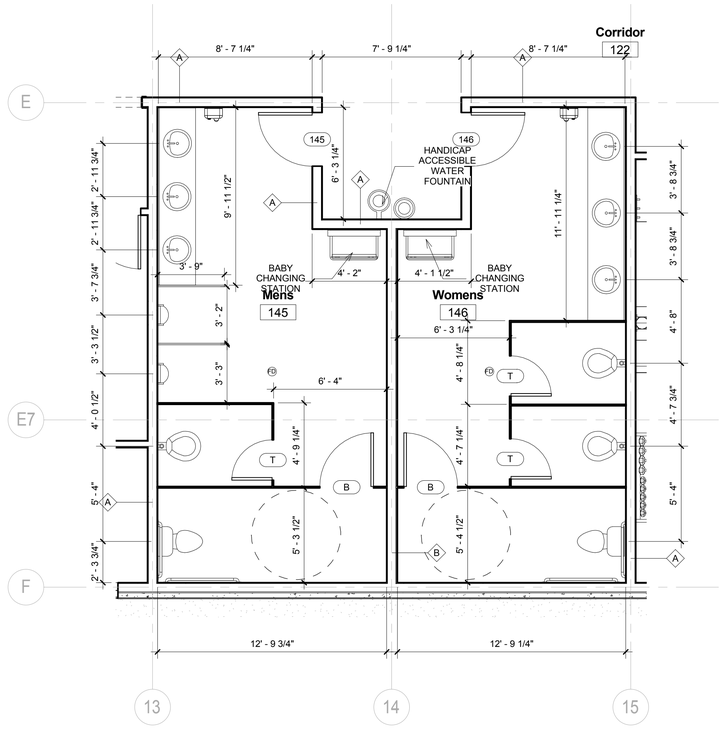
9. PROVIDE THE REQUIRED SIGNAGE AND COORDINATE WITH THE HOTEL'S OVERALL SIGNAGE PACKAGE. PERMANENTLY INSTALLED "POOL RULES" AND "HOURS OF OPERATION" SIGNAGE IS REQUIRED.

10. RECOMMEND A MAXIMUM POOL DEPTH OF 5'-0". FLOATER LINES ARE REQUIRED AT EITHER THE 5'-0" DEPTH LINE IN POOLS DEEPER THAN 5'-0" OR ALTERNATELY 1'-0" BEFORE THE POINT WHERE THE SWIMMING POOL SLOPES TOWARDS THE DEEP END.

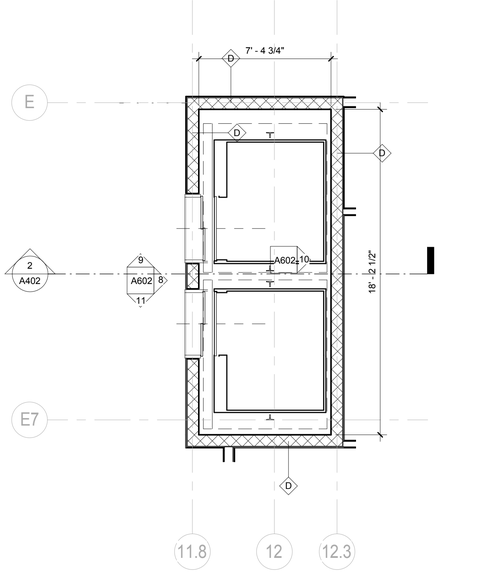
11. SUBMIT POOL DESIGN DRAWINGS SHOWING THE FURNISHINGS, FINISH SELECTIONS AND SPECIFICATIONS PRIOR TO INSTALLATION. POOL DECK MUST BE DECORATIVELY SURFACED WITH A FINISH THAT PROVIDES A MINIMUM COEFFICIENT OF FRICTION, WET & DRY, OF 0.6. DECK FINISH MAY BE CERAMIC/PORCELAIN TILE, PATTERNED SYNTHETIC CEMENT TOPPING OR A DECORATIVELY PATTERNED AND SEALED CONCRETE SURFACE.



7 Pool Coping Detail
1 1/2" = 1'-0"



2 Public Restrooms
1/4" = 1'-0"



3 Elevator Shaft
1/4" = 1'-0"

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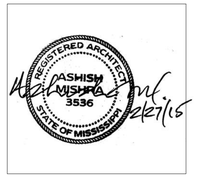


KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Pool, Restrooms and Elevator

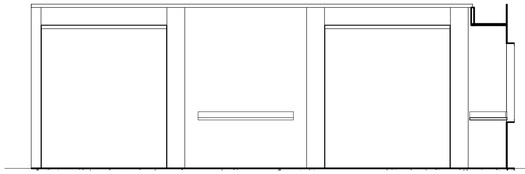
Phase
Construction Documents

Project No.	14-081	Sheet No.	A522
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

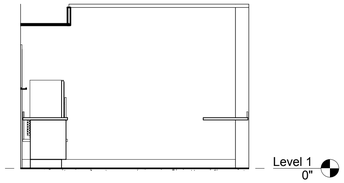
Review

Holiday Inn Express & Suites

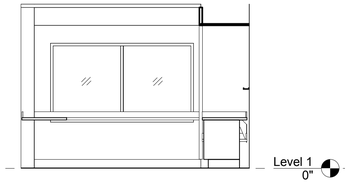
3/2/2015 5:15:54 AM



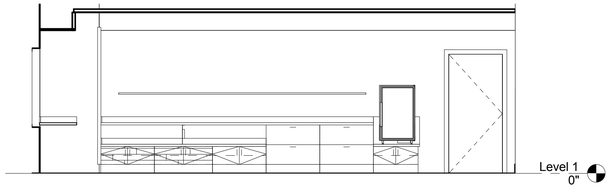
1 Elevation Breakfast East
1/4" = 1'-0"



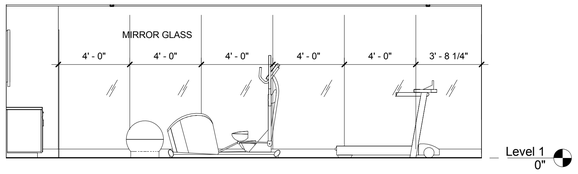
2 Elevation Breakfast North
1/4" = 1'-0"



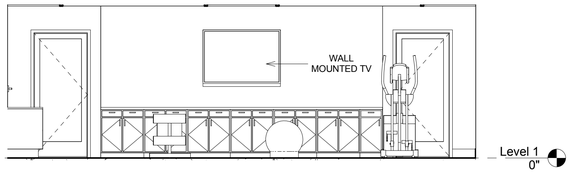
3 Elevation Breakfast South
1/4" = 1'-0"



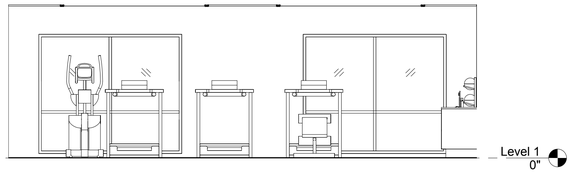
4 Elevation Breakfast West
1/4" = 1'-0"



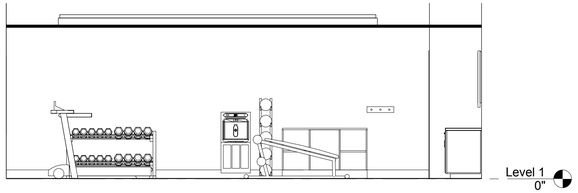
5 Elevation Fitness East
1/4" = 1'-0"



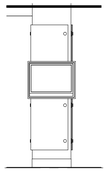
6 Elevation Fitness North
1/4" = 1'-0"



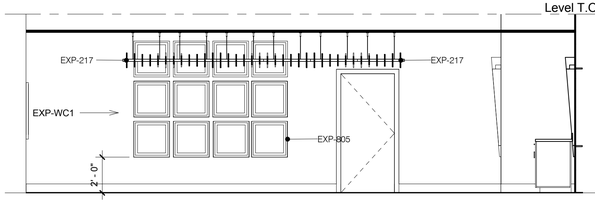
7 Elevation Fitness South
1/4" = 1'-0"



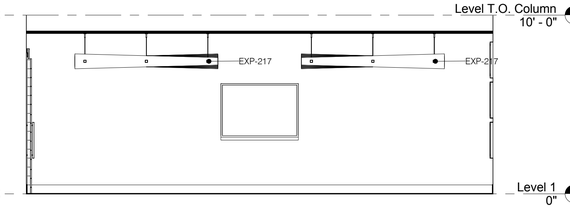
8 Elevation Fitness West
1/4" = 1'-0"



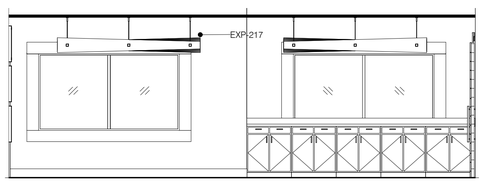
9 Elevation Lounge Columns
1/4" = 1'-0"



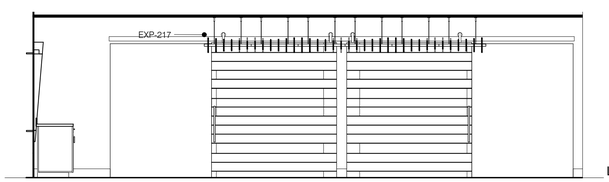
10 Elevation Meeting East
1/4" = 1'-0"



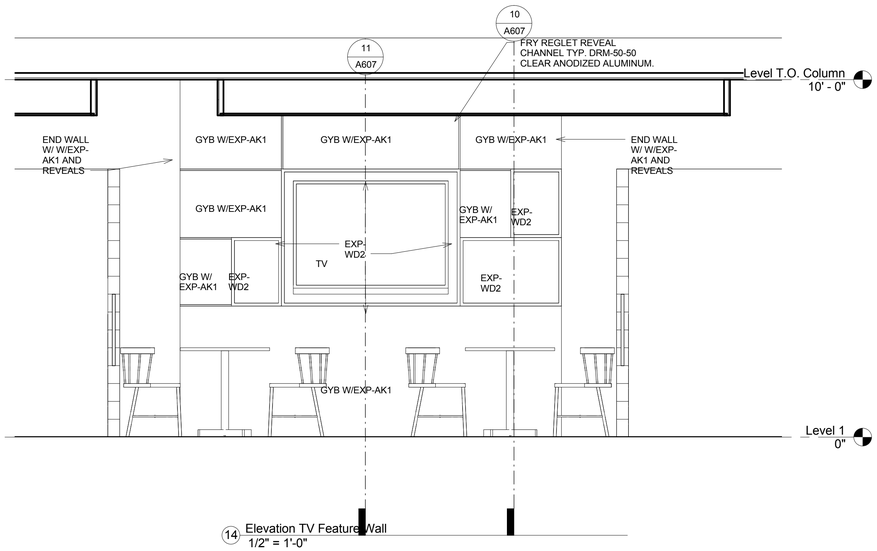
11 Elevation Meeting North
1/4" = 1'-0"



12 Elevation Meeting South
1/4" = 1'-0"



13 Elevation Meeting West
1/4" = 1'-0"



14 Elevation TV Feature Wall
1/2" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Interior Elevations

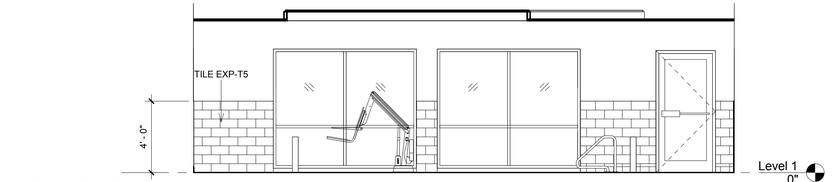
Phase
Construction Documents

Project No.	14-081	Sheet No.	A601
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

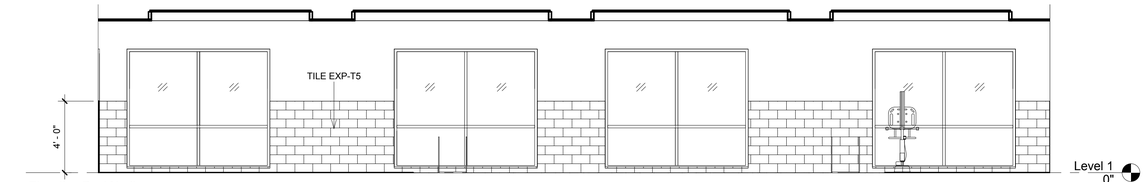
Review

3/2/2015 5:15:57 AM

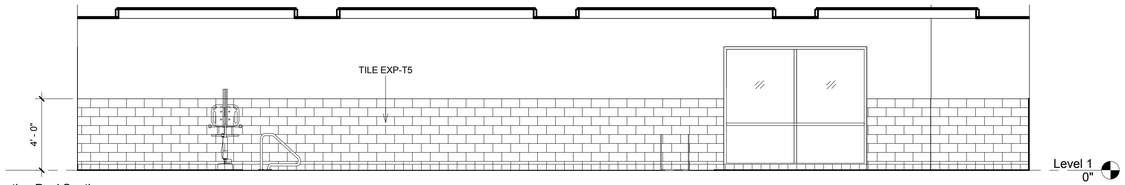
Holiday Inn Express & Suites



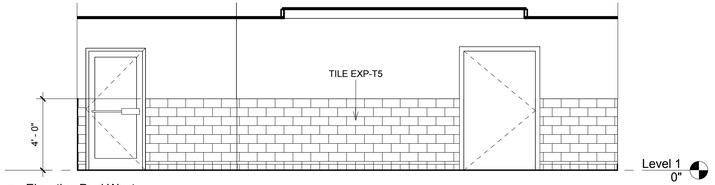
1 Elevation Pool East
1/4" = 1'-0"



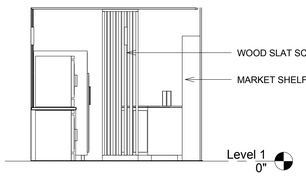
2 Elevation Pool North
1/4" = 1'-0"



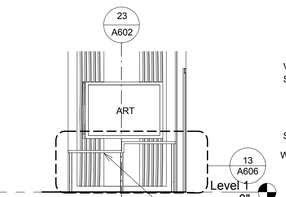
3 Elevation Pool South
1/4" = 1'-0"



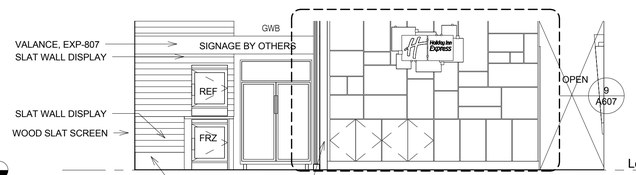
4 Elevation Pool West
1/4" = 1'-0"



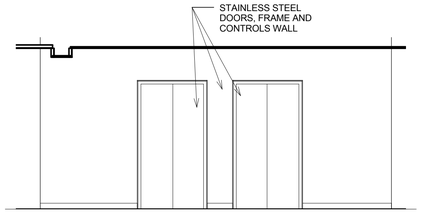
5 Elevation - Check in Screen Wall
1/4" = 1'-0"



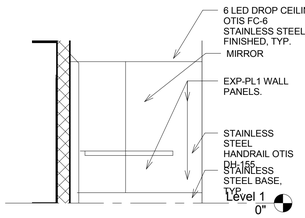
6 Elevation Business Printer Shelf
1/4" = 1'-0"



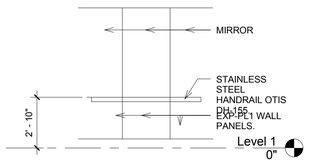
7 Elevation Check-in
1/4" = 1'-0"



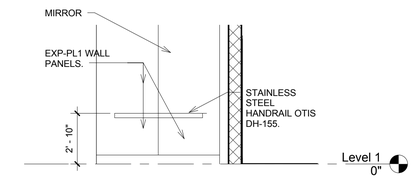
8 Elevation Elevator Front
1/4" = 1'-0"



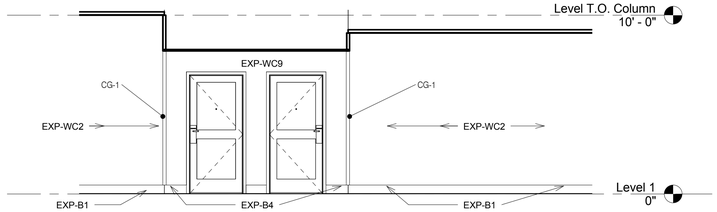
9 Elevation Elevator North
1/4" = 1'-0"



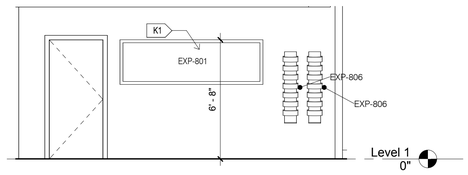
10 Elevation Elevator Rear
1/4" = 1'-0"



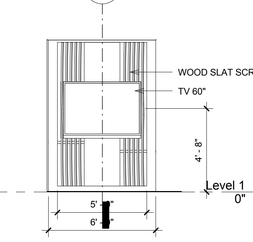
11 Elevation Elevator South
1/4" = 1'-0"



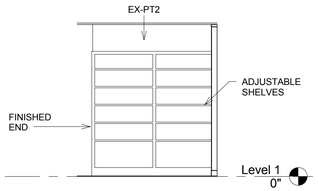
12 Elevation First Floor Corridor North
1/4" = 1'-0"



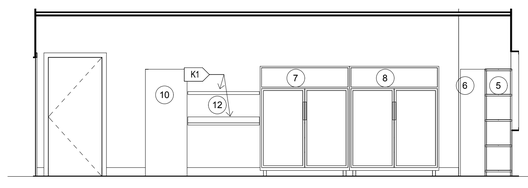
13 Elevation Lounge Business Center
1/4" = 1'-0"



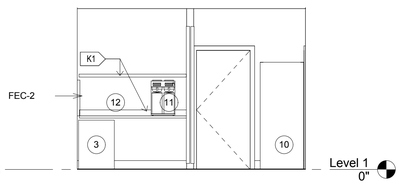
14 Elevation Lounge TV Business Divider
1/4" = 1'-0"



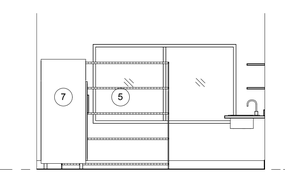
15 Elevation Market-Shelf Wall
1/4" = 1'-0"



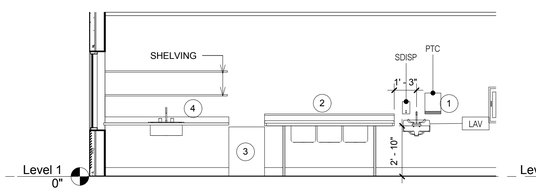
16 Elevation Pantry East
1/4" = 1'-0"



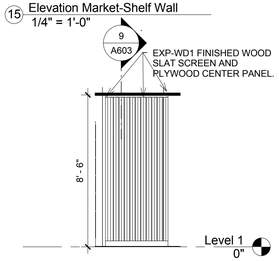
17 Elevation Pantry North
1/4" = 1'-0"



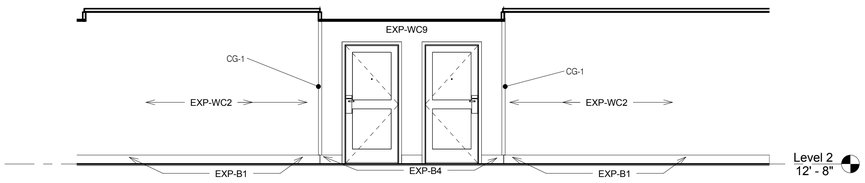
18 Elevation Pantry South
1/4" = 1'-0"



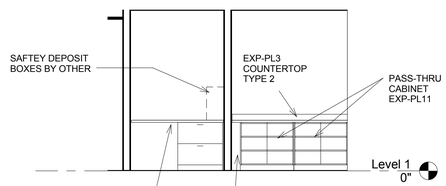
19 Elevation Pantry West
1/4" = 1'-0"



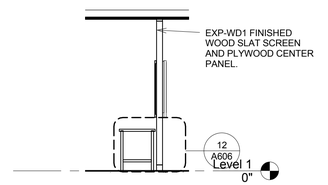
20 Elevation Screen 1 @ Market Elevation
1/4" = 1'-0"



21 Elevation Typical Guest Corridor
1/4" = 1'-0"



22 Elevation Work Area
1/4" = 1'-0"



23 Business Divider Wall Section
1/4" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH
MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Interior Elevations

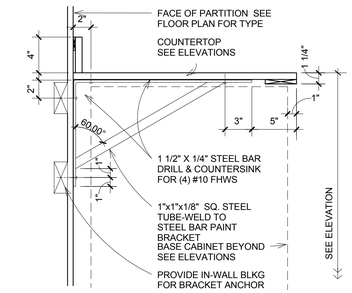
Phase
Construction Documents

Project No.	14-081	Sheet No.	A602
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

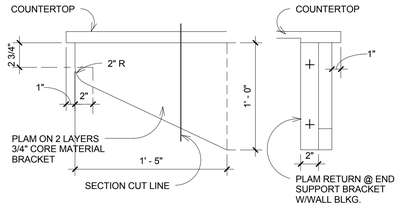
Review

3/2/2015 5:16:02 AM

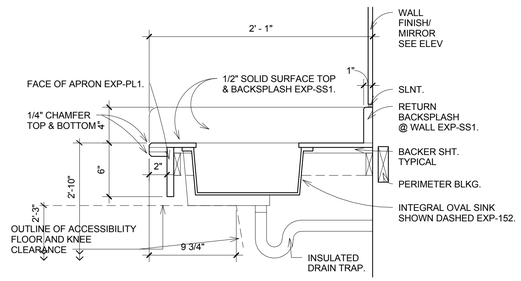
Holiday Inn Express & Suites



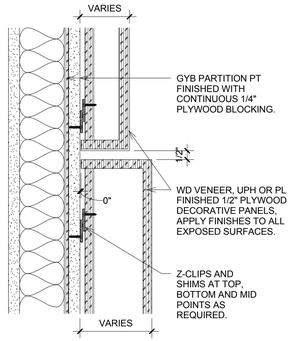
5 COUNTER TOP SUPPORT BRACKETS (CSB-M)
1 1/2" = 1'-0"



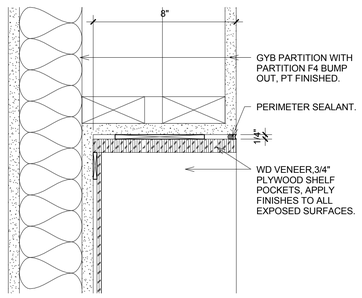
6 COUNTER TOP SUPPORT END BRACKET (CSB-E)
1 1/2" = 1'-0"



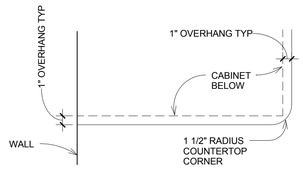
8 PUBLIC BATHROOM SINK SECTION
1 1/2" = 1'-0"



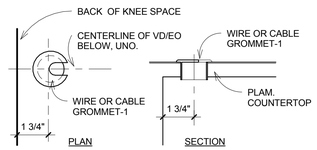
11 WALL PANEL SUPPORT
3" = 1'-0"



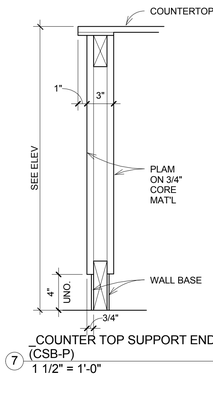
12 WALL SHELF POCKETS
3" = 1'-0"



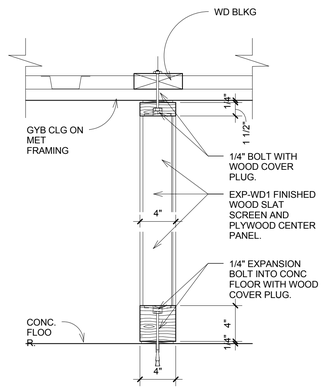
3 COUNTER TOP CORNER
1 1/2" = 1'-0"



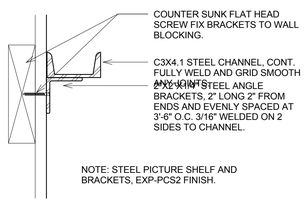
4 COUNTERTOP GROMMETS
3" = 1'-0"



7 COUNTER TOP SUPPORT END PANEL (CSB-P)
1 1/2" = 1'-0"



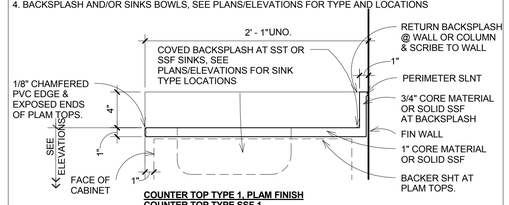
9 WOOD SLAT SCREEN SECTION
1 1/2" = 1'-0"



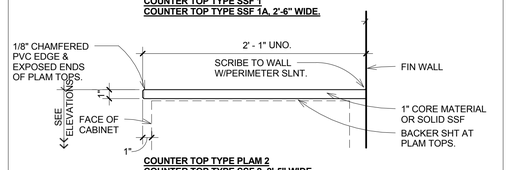
1 PICTURE SHELF
3" = 1'-0"

COUNTER TOP TYPE SCHEDULE

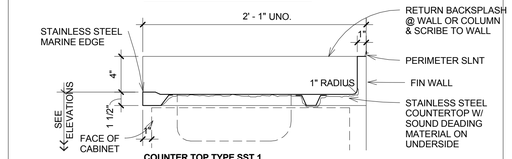
FINISHES NOTES:
1. PLAM TOP TYPES, PLAM FINISH ALL EXPOSED SURFACES INCLUDING ENDS AND BACKSPLASHES.
2. SSF TOP TYPES, FINISH ALL EXPOSED SURFACES OF SOLID SSF TOP AND BACKSPLASH.
3. SEE CASEWORK FINISHES AND GENERAL NOTES FOR TYPICAL FINISH COLOR SELECTION.
4. BACKSPLASH AND/OR SINKS BOWLS, SEE PLANS/ELEVATIONS FOR TYPE AND LOCATIONS



COUNTER TOP TYPE 1, PLAM FINISH
COUNTER TOP TYPE SSF 1
COUNTER TOP TYPE SSF 1A, 2'-6" WIDE.

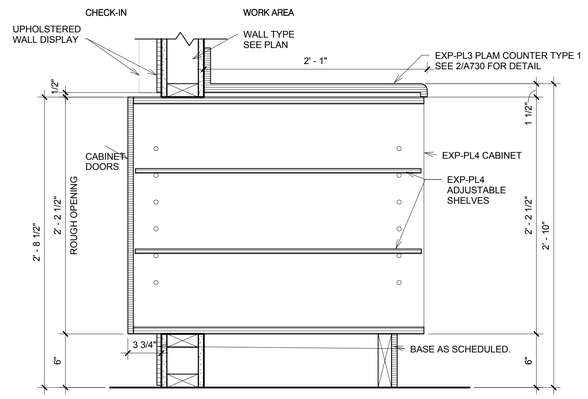


COUNTER TOP TYPE PLAM 2
COUNTER TOP TYPE SSF 2, 2'-5" WIDE



COUNTER TOP TYPE SST 1

2 COUNTER TOP TYPES
1 1/2" = 1'-0"



10 CHECK-IN WALL DRAWER DETAIL
1 1/2" = 1'-0"

CASEWORK GENERAL NOTES

1. CASEWORK SUBCONTRACTOR SHOULD INSPECT THE ALIGNMENT OF ALL GYPSUM BOARD CONSTRUCTION AND SHOULD NOTIFY THE ARCHITECT OF ANY CONDITION THAT WOULD PREVENT THEM FROM COMPLETING THEIR WORK. CASEWORK SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ON THE LOCATION AND INSTALLATION OF ALL GROUNDS AND BLOCKING INSIDE THE WALL CONSTRUCTION RELATED TO CABINETWORK.

2. ALL CASEWORK SHALL HAVE A FINE, SMOOTH FINISH, FREE FROM MACHINE OR TOOL MARKS, ABRASIONS OR RAISED GRAIN ON EXPOSED SURFACES. JOINTS SHALL BE TIGHT AND SO FORMED AS TO CONCEAL SHRINKAGE. MITERS OR MORE FROM HEEL TO POINT SHALL BE GLUED 4" AND FEATHERED, LOCKED, SPLINED, AND DOWELED. TENONS AND DOWELS SHALL BE OF HARDWOOD AND SPACED NOT LESS THAN 3" ON CENTER. JOINTS SHALL BE MADE WITH WATER-RESISTANT GLUE OR HOT GLUED UNDER PRESSURE. ALL EXPOSED WORK SHALL BE FULLY ASSEMBLED IN THE SHOP IN AS LARGE A UNIT AS PRACTICAL, THEN DELIVERED AND INSTALLED.

3. SCREW AND GLUE ALL JOINTS AND CONNECTIONS. NO NAILING PERMITTED.

4. ALL HIGH-PRESSURE PLASTIC LAMINATE WORK SHALL BE SOLID, IN ONE PIECE AND WITHOUT SPLICE JOINTS (EXCEPT WHERE PROHIBITED BY THE MAXIMUM AVAILABLE SIZE OF THE MANUFACTURED PLASTIC LAMINATE MATERIALS) AND SHALL BE BONDED TO THE CORE STOCK USING THE "HOT PLATE" PRESS METHOD. ALL EDGES AND EXPOSED CORNERS TO BE FINELY JOINED: UNSIGHTLY JOINTS, NICKS, SCRATCHES, CHOPS, DEFECTS, WAVY OR UNEVEN LAMINATION WILL BE REJECTED. IF JOINTS ARE REQUIRED DUE TO LENGTH OF UNIT, JOINTS TO BE CENTERED SYMMETRICALLY OVER THE LENGTH OF THE UNIT.

5. ALL SURFACES TO BE LAMINATED (PLASTIC LAMINATE OR VENEERED) SHALL BE WITH THE SAME TYPE OF MATERIAL ON THE BOTH SIDES (BACKING) WHETHER VISIBLE OR NOT. PANEL AND PLYWOOD BACKS NOT EXPOSED TO VIEW SHALL BE VENEERED WITH THE SAME SPECIES AND THICKNESS OF VENEER USED FOR THE FACES, FOR BALANCED CONSTRUCTION. HOWEVER, THE VENEERED SURFACES NOT EXPOSED TO VIEW NEED NOT BE MATCHED.

6. CASEWORK CABINETRY WHERE THE DOORS HAVING PLASTIC LAMINATE FACES SHALL ALSO HAVE BACKS AND EDGES OF THE SAME PLASTIC LAMINATE AS THE FACE. DRAWERS HAVING PLASTIC LAMINATE FACES SHALL HAVE BIRCH VENEER SOLID CORE INTERIOR CONSTRUCTION (BOTTOM AND SIDES) WITH CLEAR LACQUER FINISH. DRAWER FRONT AND SIDES TO BE GROOVED TO RECEIVE (3) PLY BOTTOM PIECE.

7. WHERE ELECTRICAL WORK IS SPECIFIED IN CABINETS, LAMPS AND FIXTURES ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR. CUTOUTS FOR SWITCHES, OUTLETS, AND WIRING DEVICES TO BE INSTALLED IN CABINETRY IN THE FIELD ARE BY THE CASEWORK SUBCONTRACTOR AND ARE TO BE COORDINATED BY THE GENERAL CONTRACTOR.

8. CASEWORK SUBCONTRACTOR SHALL PROVIDE ALL HARDWARE REQUIRED FOR FINISHED INSTALLATION OF CABINETS.

9. FIELD VERIFY LOCATION OF ALL HOLES THROUGH ALL NEW COUNTERTOPS AND MILLWORK. PROVIDE A GROMMET INSERT AT EACH LOCATION WERE ELECTRICAL, VOICE/DATA OUTLETS OCCUR. SEE DETAILS FOR SIZES, LOCATIONS AND FINISHES OF GROMMET.

10. CASEWORK SUBCONTRACTOR SHALL SHIM AND LEVEL ALL COUNTERS TO BE LOCATED OVER FILES, AND PROVIDE A STABLE TEMPORARY SUPPORT UNTIL FILES ARE DELIVERED FOR INSTALLATION. CONTRACTOR TO PROVIDE FILLER STRIPS AS REQUIRED BETWEEN FILE CABINETS AND COUNTERTOPS, AND BETWEEN CABINETS AND SURROUNDING WALLS AND CEILINGS.

11. CASEWORK SUBCONTRACTOR IS RESPONSIBLE TO CLEAN AND POLISH AND TOUCH UP AS REQUIRED ALL WOODWORK AFTER THE INSTALLATION IS COMPLETED.

12. CASEWORK FINISHES ARE INDICATED IN THE ROOM FINISHES SCHEDULE AND/OR INTERIOR ELEVATIONS.

CABINET HARDWARE:
CABINET DOOR HANDLE: JG Edelen #7600-320 (12 1/2") brushed nickel finish.
DRAWER HANDLE: JG Edelen 7600-128 brushed nickel finish.

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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Casework Types and Details

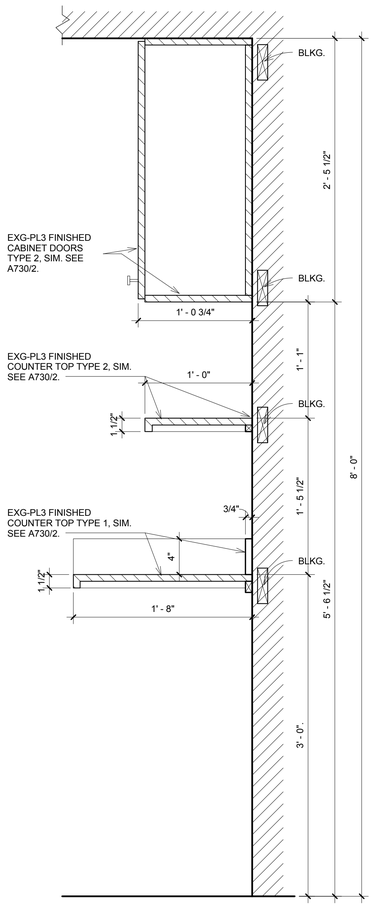
Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A603
Checked by	Checker	
Date	Feb. 27, 2015	

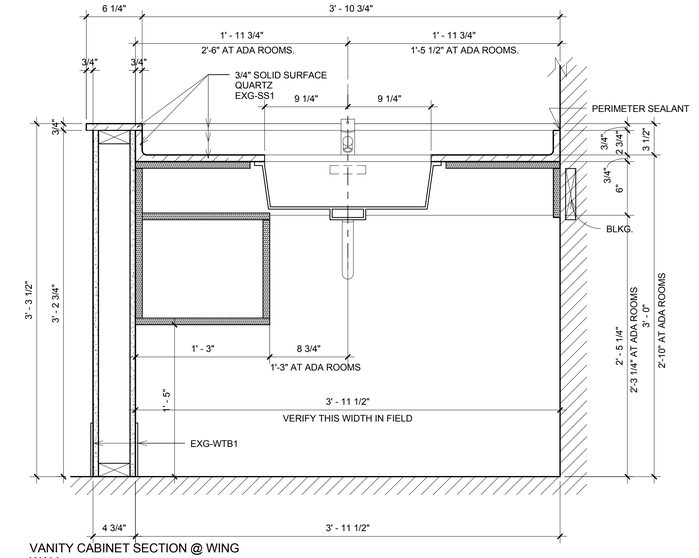
Review

Holiday Inn Express & Suites

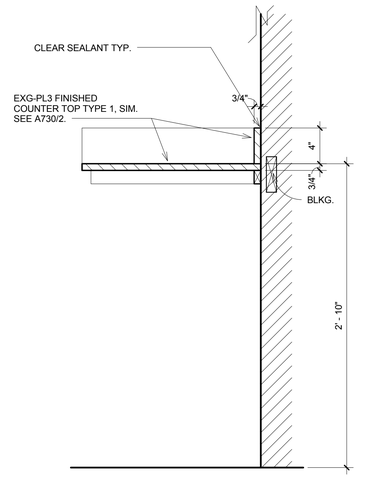
3/2/2015 5:16:04 AM



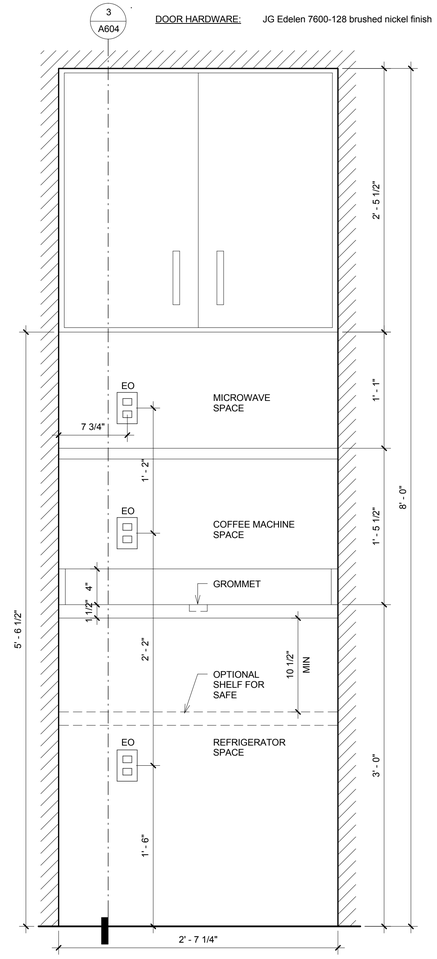
3 SECTION @ REFRESHMENT CABINET
1 1/2" = 1'-0"



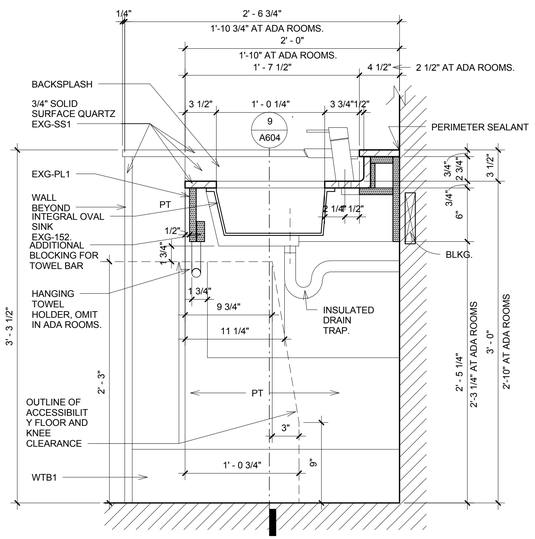
9 VANITY CABINET SECTION @ WING WALL
1 1/2" = 1'-0"



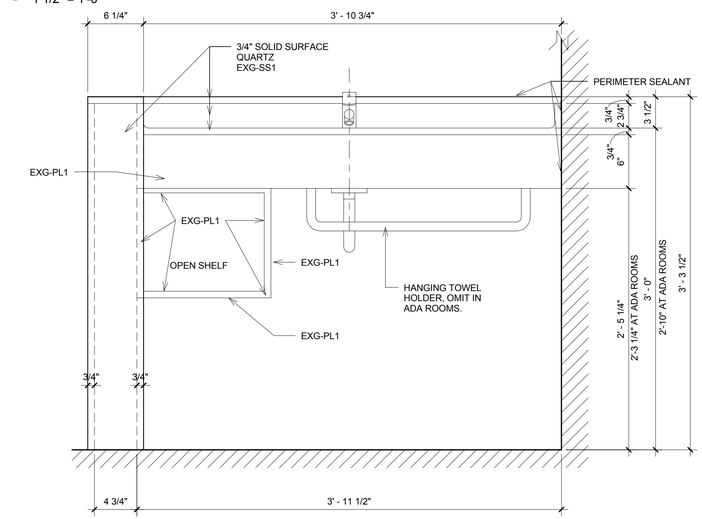
ADA SECTION @ REFRESHMENT COUNTER
6 1 1/2" = 1'-0"



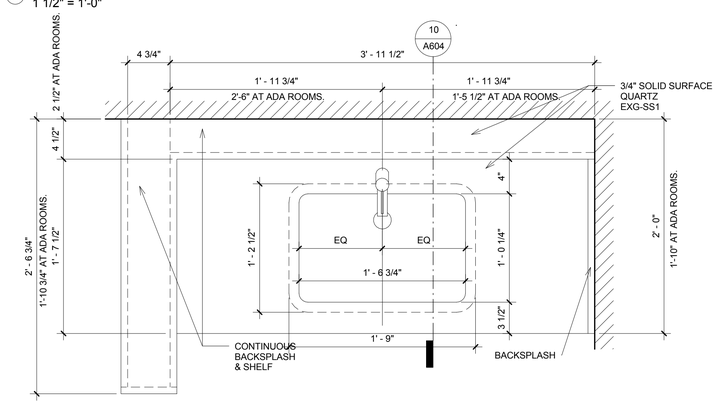
2 REFRESHMENT CABINET ELEVATION
1 1/2" = 1'-0"



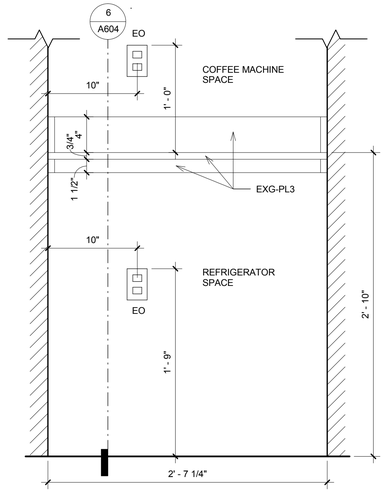
10 VANITY CABINET SECTION
1 1/2" = 1'-0"



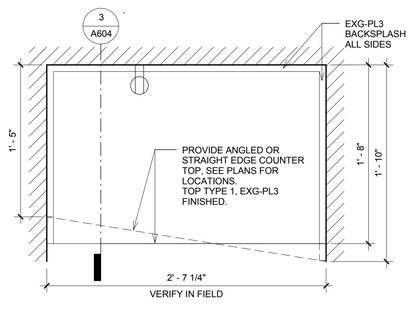
8 VANITY CABINET ELEVATION
1 1/2" = 1'-0"



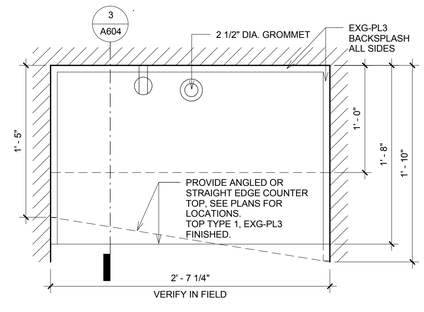
7 VANITY CABINET PLAN
1 1/2" = 1'-0"



5 ADA REFRESHMENT COUNTER ELEVATION
1 1/2" = 1'-0"



4 ADA REFRESHMENT COUNTER PLAN
1 1/2" = 1'-0"



1 REFRESHMENT CABINET PLAN
1 1/2" = 1'-0"

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
12/7/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Casework Details

Phase
Construction Documents

Project No.	14-081	Sheet No.	A604
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

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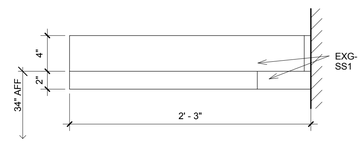
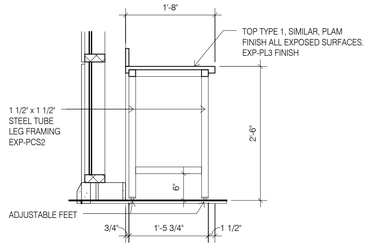
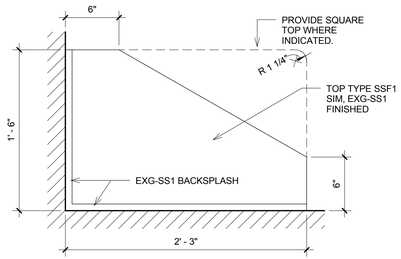


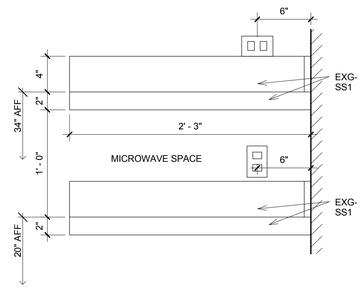
11 COUNTER_ENTRY - ELEVATION
1 1/2" = 1'-0"



12 BREAK ROOM WINDOW COUNTER
3/4" = 1'-0"

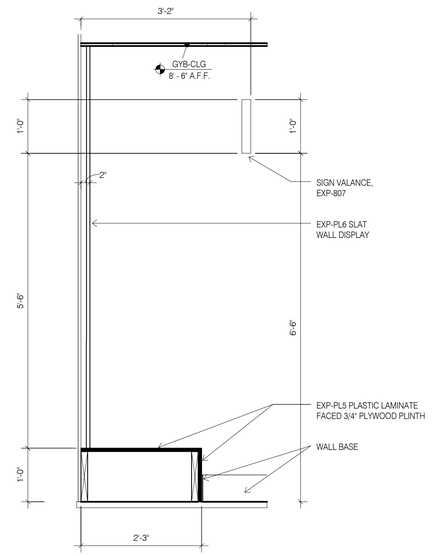


10 COUNTER_ENTRY - PLAN DETAIL
1 1/2" = 1'-0"

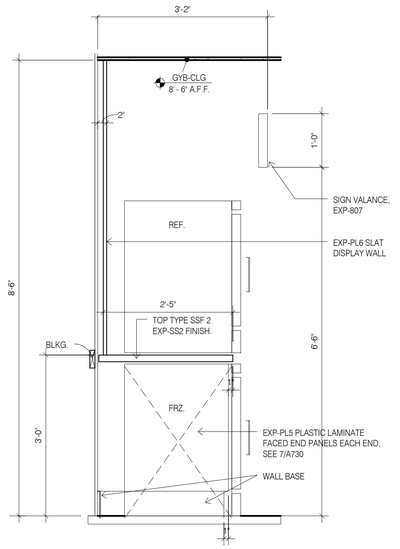


9 COUNTER_ENTRY - ADA - ELEVATION
1 1/2" = 1'-0"

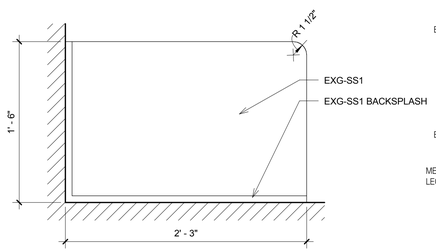
7 MARKET - SECTION THRU SHELVING
3/4" = 1'-0"



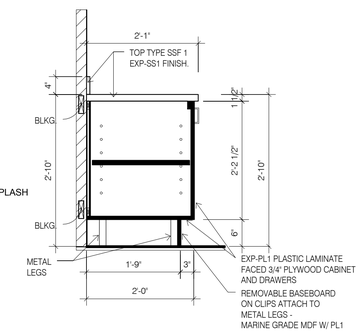
6 MARKET - SECTION THRU SLAT WALL
3/4" = 1'-0"



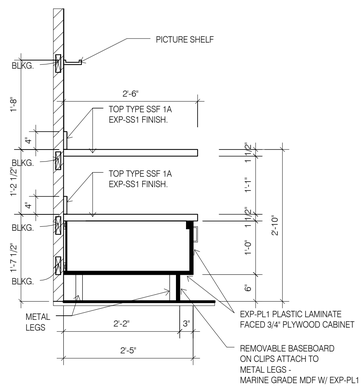
5 MARKET - SECTION THRU CABINET
3/4" = 1'-0"



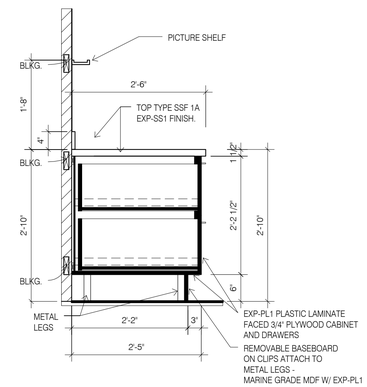
8 ADA COUNTER IN ENTRY - PLAN
1 1/2" = 1'-0"



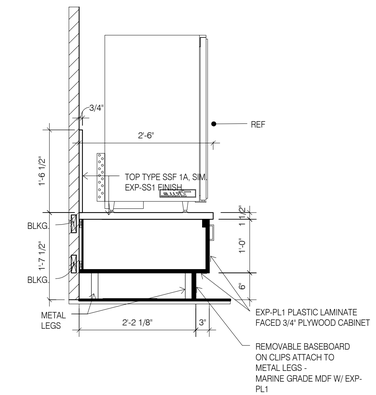
4 BRKFST - SECTION AT 25" COUNTER
3/4" = 1'-0"



3 BRKFST - SECTION AT OPEN SHELF
3/4" = 1'-0"



2 BRKFST - SECTION AT 30" DEEP
COUNTER AND SHELF
3/4" = 1'-0"



1 BRKFST - SECTION AT REF.
3/4" = 1'-0"

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STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Casework Details

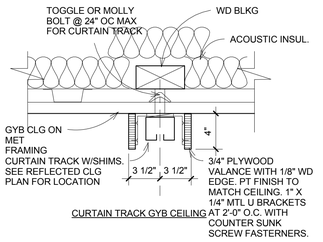
Phase
Construction Documents

Project No.	14-081	Sheet No.	A605
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

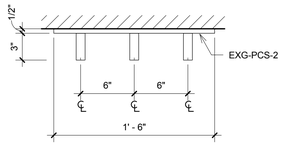
Review

3/2/2015 5:16:08 AM

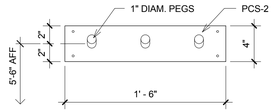
Holiday Inn Express & Suites



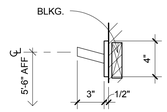
1 CEILING CURTAIN TRACKS
1 1/2" = 1'-0"



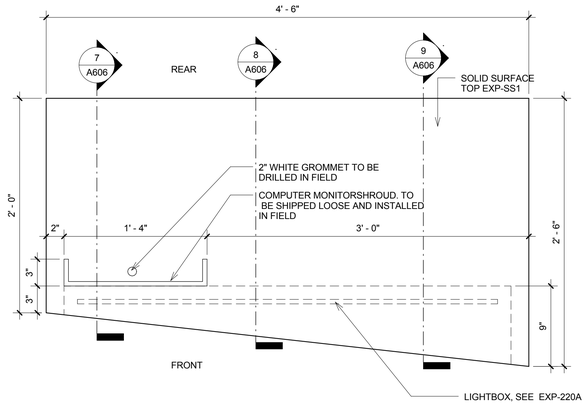
2 COAT PEGS - PLAN DETAIL
1 1/2" = 1'-0"



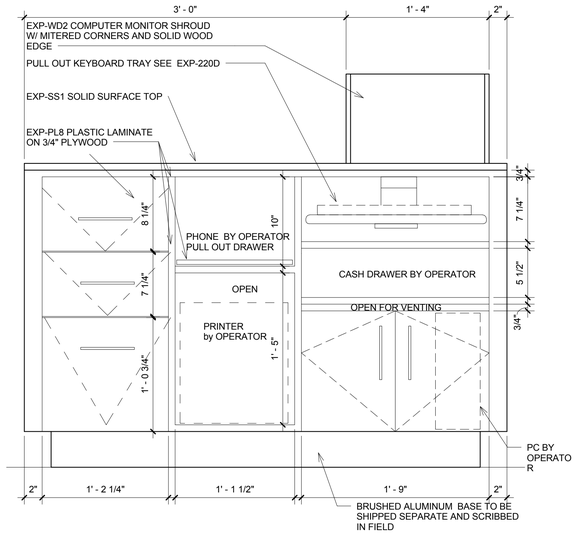
3 COAT PEGS - FRONT ELEVATION
1 1/2" = 1'-0"



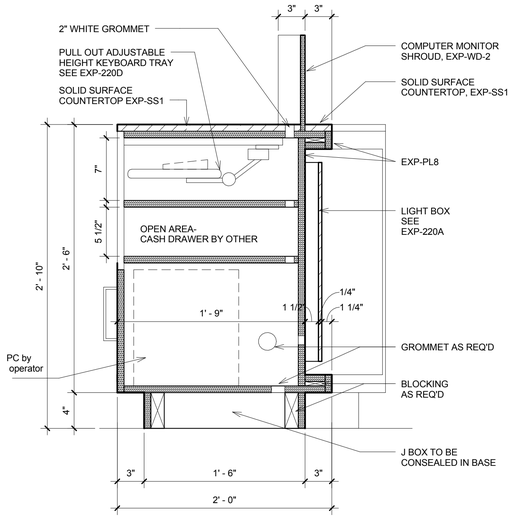
4 COAT PEGS - SECTION
1 1/2" = 1'-0"



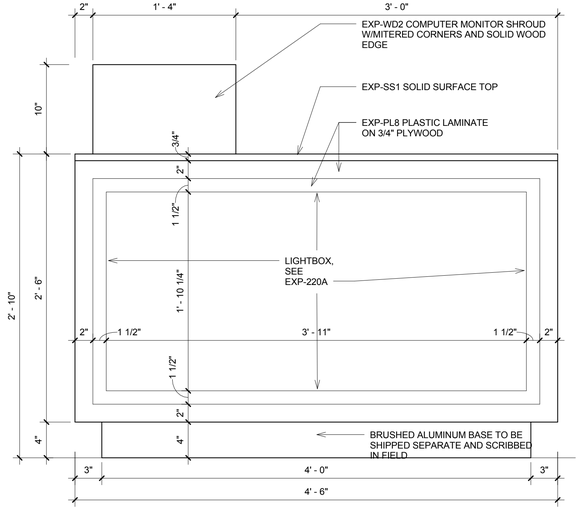
5 RECEPTION DESK - PLAN
1 1/2" = 1'-0"



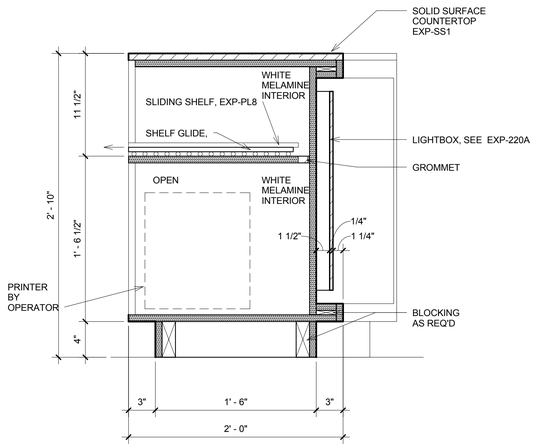
6 RECEPTION DESK - REAR ELEVATION
1 1/2" = 1'-0"



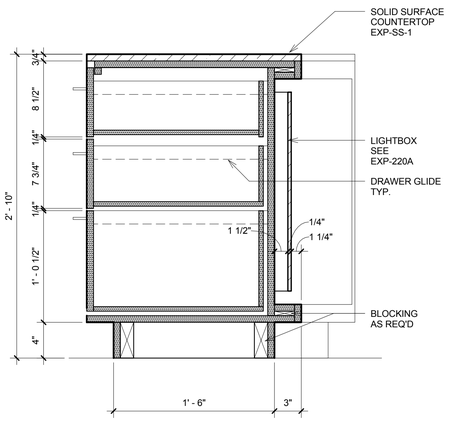
7 RECEPTION DESK - SECTION 1
1 1/2" = 1'-0"



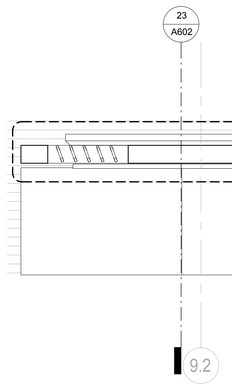
10 RECEPTION DESK - FRONT ELEVATION
1 1/2" = 1'-0"



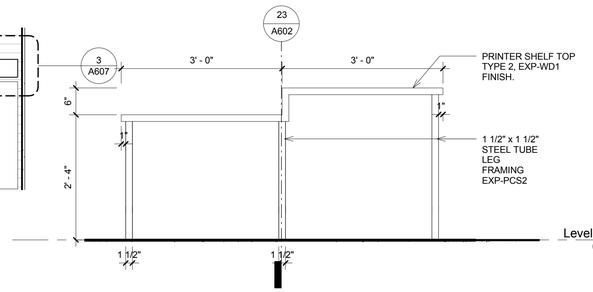
8 RECEPTION DESK - SECTION 2
1 1/2" = 1'-0"



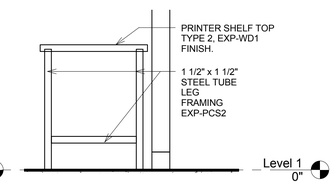
9 RECEPTION DESK - SECTION 3
1 1/2" = 1'-0"



11 Printer Shelf Plan
3/4" = 1'-0"



13 Printer Shelf Elevation
3/4" = 1'-0"



12 Printer Shelf Section
3/4" = 1'-0"

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No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Casework Details

Phase
Construction Documents

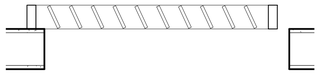
Project No.	14-081	Sheet No.	A606
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

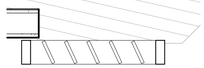
3/2/2015 5:16:11 AM

EXP-WD1 FINISHED SLAT SCREEN BLADES.
BLADE PATTERN LEFT TO RIGHT: A, B, C, D, E, F, A, B, C AND D.
SEE 12/A607 DETAIL.

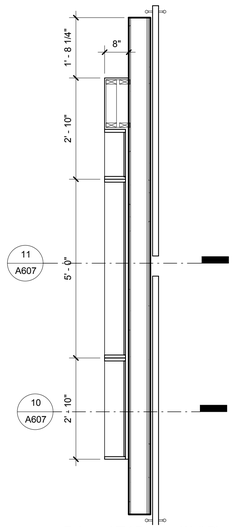


1 Lounge Screen 1 @ Market Place
1" = 1'-0"

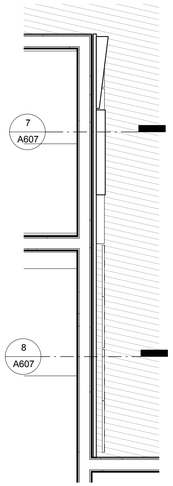
EXP-WD1 FINISHED SLAT SCREEN BLADES.
BLADE PATTERN LEFT TO RIGHT: A, B, C, D AND E.
SEE 12A607 DETAIL.



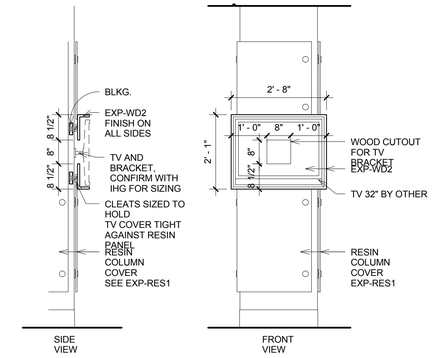
2 Lounge Screen2 @ Market Place
1" = 1'-0"



4 Enlarged TV Feature Wall Plan
1/2" = 1'-0"

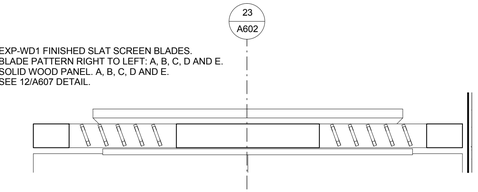


5 Enlarged Check in Wall Plan
1/2" = 1'-0"



6 EXP221_TV SHROUD
1/2" = 1'-0"

EXP-WD1 FINISHED SLAT SCREEN BLADES.
BLADE PATTERN RIGHT TO LEFT: A, B, C, D AND E.
SOLID WOOD PANEL. A, B, C, D AND E.
SEE 12/A607 DETAIL.



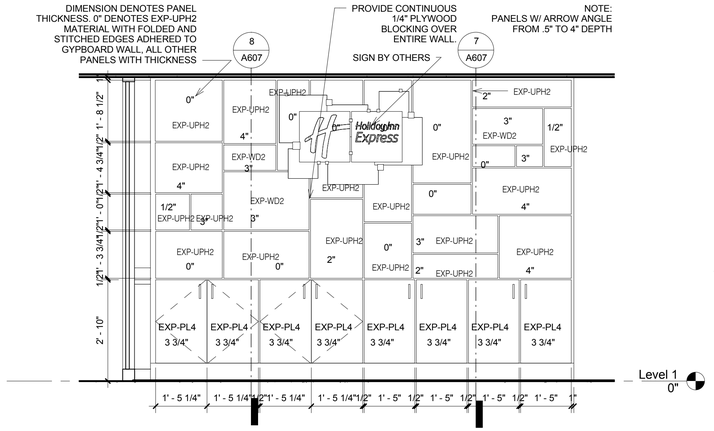
3 Business TV Screen Wall Plan
1" = 1'-0"

DIMENSION DENOTES PANEL THICKNESS. 0" DENOTES EXP-UPH2 MATERIAL WITH FOLDED AND STITCHED EDGES ADHERED TO GYPBOARD WALL, ALL OTHER PANELS WITH THICKNESS

PROVIDE CONTINUOUS 1/4" PLYWOOD BLOCKING OVER ENTIRE WALL

SIGN BY OTHERS

NOTE: PANELS W/ ARROW ANGLE FROM .5" TO 4" DEPTH



9 Enlarged Checkin Wall Elevation
1/2" = 1'-0"

10 TV Wall Section 1
1/2" = 1'-0"

11 TV Wall Section 2
1/2" = 1'-0"

7 Checkin Wall Section 1
1/2" = 1'-0"

8 Checkin Wall Section 2
1/2" = 1'-0"

EXP-WD1 FINISHED SLAT SCREEN BLADES. PROVIDE SETBACK NOTCH TO RECESS INTO TOP AND BOTTOM RAILS.

12 Lounge Screen Blades
1/2" = 1'-0"

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Holiday Inn Express & Suites

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Project No.	14-081	Sheet No.
Prepared by	Author	A607
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Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

3/2/2015 5:16:12 AM

Room Schedule

Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height
101	Vestibule	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
102	Checking	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-6"
103	Business Center	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
104	Store	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
105	Lifestyle Lounge	Tile	Tile	Ptd. Gyp. Bd.	ACT/Wood	10'-0"/9'-0"
106	Meeting	Carpet	Wood	Vinyl Wall Covering	Ptd. Gyp. Bd./Wood	9'-0"
107	Market	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-6"
108	Breakfast	Tile	Tile	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/9'-0"
109	Work Area	Carpet	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
110	Server	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
111	Pantry	Tile	Tile	Ptd. Gyp. Bd.	ACT	9'-0"
112	Sales	Carpet	Vinyl	Ptd. Gyp. Bd.	ACT	9'-0"
113	General Manager	Carpet	Vinyl	Ptd. Gyp. Bd.	ACT	9'-0"
114	Laundry	Tile	Tile	Ptd. Gyp. Bd.	ACT	9'-0"
115	Mechanical	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
116	Electrical	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
117	Storage	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
118	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
119	Elevators					
120	Meeting Storage	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
121	Corridor	Tile	Tile	Vinyl Wall Covering	ACT	9'-0"
122	Corridor	Tile	Tile	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/9'-0"
123	Accessible Rollin X-Wide King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
124	Unisex	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"
125	Breakroom	Tile	Tile	Ptd. Gyp. Bd.	ACT	8'-0"
126	Ice	Tile	Tile	Ptd. Gyp. Bd.	ACT	9'-0"
127	Stairs #2	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
128	Storage	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
129	Dryer	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
130	Chute	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
131	Stairs #1	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
132	Engineering	Tile	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
133	Fire Pump	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
134	Elev. Equip.	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
135	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
136	Hearing Impaired King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
137	Fitness	Carpet	Vinyl	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/9'-0"
138	Pool Deck	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-6"/9'-0"
139	Pool Vestibule	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
140	Guest Laundry	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
141	Pool Equip	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
142	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
143	Storage	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Textured Gyp. Bd.	9'-0"
144	Janitor	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"
145	Mens	Tile	Tile/Carpet	Ptd. Gyp. Bd.	ACT	9'-0"
146	Womens	Tile	Tile	Ptd. Gyp. Bd.	ACT	9'-0"
147	Elevator Lobby	Tile	Tile	Vinyl Wall Covering	Ptd. Gyp. Bd.	9'-0"
148	Carts	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
149	Pool				Ptd. Gyp. Bd.	8'-6"/9'-0"
150	Patio	Stamped Conc				
173	Dumpster	Sealed Conc.				
201	Stairs #1	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
202	Chute	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
203	King Wide	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
204	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
205	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
206	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
207	Hearing Impaired King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
208	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
209	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
210	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
211	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
212	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
213	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
214	Accessible King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
215	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
216	Hearing Impaired Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
217	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
218	Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
219	Housekeeping	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
220	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
221	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
222	Elevator Lobby	Tile	Tile	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/8'-6"
223	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
224	Electrical/PBX	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
225	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
226	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
227	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
228	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
229	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
230	Hearing Impaired Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
231	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"

Room Schedule

Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height
232	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
233	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
234	Accessible X-Wide King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
235	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
236	Stairs #2	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
237	Ice	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"
238	Corridor	Carpet	Carpet	Ptd. Gyp. Bd.	ACT/Ptd. Gyp. Bd.	8'-0"/8'-6"
301	Stairs #1	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
302	Chute	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
303	King Wide	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
304	Hearing Impaired Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
305	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
306	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
307	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
308	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
309	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
310	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
311	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
312	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
313	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
314	Acc. Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
315	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
316	Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
317	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
318	Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
319	Housekeeping	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
320	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
321	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
322	Elevator Lobby	Tile	Tile	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/8'-6"
323	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
324	Electrical	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
325	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
326	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
327	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
328	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
329	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
330	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
331	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
332	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
333	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
334	King X-Wide	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
335	Hearing Impaired King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
336	Stairs #2	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
337	Ice	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"
338	Guest Corridor	Carpet	Carpet	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/8'-6"
401	Stairs #1	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
402	Chute	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
403	King Wide	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
404	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
405	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
406	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
407	Hearing Impaired King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
408	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
409	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
410	Hearing Impaired Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
411	Hearing Impaired King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
412	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
413	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
414	Accessible Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
415	King Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
416	Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
417	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
418	Double Queen Suite	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
419	Housekeeping	Tile	Tile	Ptd. Gyp. Bd.	Textured Gyp. Bd.	9'-0"
420	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
421	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
422	Elevator Lobby	Tile	Tile	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-6"/9'-0"
423	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
424	Electrical	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	9'-0"
425	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
426	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
427	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
428	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
429	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
430	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
431	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
432	Double Queen	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
433	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
434	KIng X-Wide	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
435	King	Tile/Carpet	Tile/Carpet	Ptd. Gyp. Bd.	Textured Gyp. Bd.	8'-0"/9'-0"
436	Stairs #2	Sealed Conc.	Vinyl	Ptd. Gyp. Bd.		
437	Ice	Tile	Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"
438	Guest Corrdior	Carpet	Carpet	Vinyl Wall Covering	ACT/Ptd. Gyp. Bd.	8'-0"/8'-6"
501	Stairs #1					

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 3536 STATE OF MISSISSIPPI 2/27/15

KEY PLAN

FINISH LEGEND

1. ALL GUEST ROOM BATHROOMS WILL HAVE CERAMIC TILE FLOORS.

2. ALL PUBLIC BATHROOMS WILL HAVE CERAMIC TILE FLOORS.

3. VINYL WALL COVERING WILL BE PERFORATED AS PER THE PROJECT MANUAL.

4. ALL PUBLIC AREAS WILL HAVE CROWN MOULDING. THESE AREAS INCLUDE CORRIDORS, ELEVATOR LOBBIES, MEETING ROOM, FITNESS CENTER, LOBBY, SITTING, GREAT ROOM.

5. ALL WET AREAS INCLUDING GUEST BATHROOMS, PTAC UNIT WALLS AND LAUNDRY TO BE INSTALLED WITH MOISTURE RESISTANT GYPSUM BOARD.

6. ACT II IS A MOISTURE-RESISTANT ACOUSTICAL CEILING TILE.

7. PUBLIC AREAS INCLUDING CORRIDORS, ELEVATOR LOBBIES, MEETING ROOM, FITNESS CENTER, LOBBY, SITTING, GREAT ROOM TO BE INSTALLED WITH TEGULAR ACOUSTICAL CEILING TILES WITH REVEAL AS APPROVED BY ARCHITECT/OWNER.

8. ALL WET AREAS, INCLUDING GUEST BATHROOMS, POOL WILL HAVE TILE WITH A MINIMUM SLIP RESISTANCE OF 0.60 ON THE ASTM C-1028 TEST WET AND DRY.

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Room Schedule

Phase
Construction Documents

Project No.	14-081	Sheet No.	A701
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

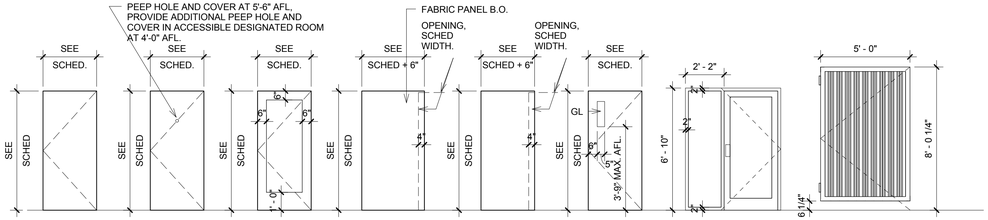
Review

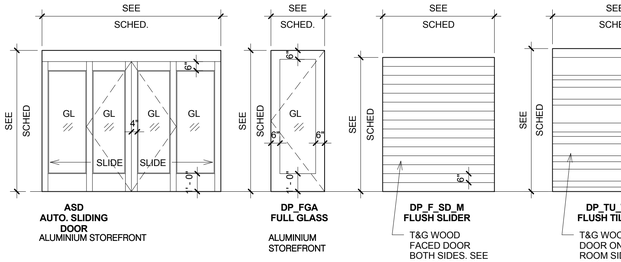
3/2/2015 5:16:16 AM

Holiday Inn Express & Suites

Door Schedule								
Mark	Width	Height	Door Types	Door Material	Thickness	Frame Material	Fire Rating	Comments
101A	12' - 0"	10' - 0"	ASD	ALUM.		ALUM.		Panic Hardware w/ Card Key
101B	12' - 0"	10' - 0"	ASD	ALUM.		ALUM.		Panic Hardware w/ Card Key
104	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	Lockset
106A	6' - 0"	7' - 6"	DP_TU_WD	WOOD	2"	H.M.		Meeting Room sliding door.
106B	6' - 0"	7' - 6"	DP_TU_WD	WOOD	2"	H.M.		Meeting Room sliding door.
106C	3' - 0"	6' - 8"	DP_N FLUSH	WOOD	1 3/4"	H.M.	20 MINS.	Panic Hardware
108A	7' - 0"	8' - 0"	DP-F-SD-M	WOOD	3"	H.M.		
108B	7' - 0"	8' - 0"	DP-F-SD-M	WOOD	3"	H.M.		
109	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
110	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
111	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
112	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
113	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
114	4' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
115	4' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	Lockset
116	4' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	Lockset
117	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	Lockset
120	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	Lockset
122A	3' - 0"	6' - 8"	DP-FGAS	ALUM.		ALUM.	20 MINS.	Panic Hardware w/ Card Key
122B	3' - 0"	6' - 8"	DP-FGAS	ALUM.		ALUM.		Panic Hardware w/ Card Key
124	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
127A	3' - 0"	6' - 8"	DP-N	H.M.	1 3/4"	H.M.	90 MINS.	Panic Hardware
127B	3' - 0"	6' - 8"	DP-N	H.M.	1 3/4"	H.M.		Panic Hardware w/ Card Key
128	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
129	2' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
130	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	45 MINS.	
131A	3' - 0"	6' - 8"	DP-N	H.M.	1 3/4"	H.M.	90 MINS.	Panic Hardware
131B	3' - 0"	6' - 8"	DP-N	H.M.	1 3/4"	H.M.		Panic Hardware w/ Card Key
131C	3' - 0"	6' - 8"	DP-FGA	ALUM.	2"	ALUM.		Panic Hardware w/ Card Key
131D	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	45 MINS.	
132	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
133A	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	45 MINS.	
133B	4' - 0"	7' - 0"	DP_F	H.M.	1 3/4"	H.M.		
134	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	45 MINS.	Lockset
137A	3' - 0"	7' - 0"	DP-FGA	WOOD	1 3/4"	H.M.		Panic Hardware
137B	3' - 0"	7' - 0"	DP-FGA	WOOD	1 3/4"	H.M.		Panic Hardware
138	3' - 0"	6' - 8"	DP-FGA	ALUM.	2"	ALUM.		Panic Hardware w/ Card Key
139A	3' - 0"	6' - 8"	DP-FGA	ALUM.		ALUM.	20 MINS.	Panic Hardware
139B	3' - 0"	6' - 8"	DP-FGA	ALUM.		ALUM.	20 MINS.	Panic Hardware
140	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
141	4' - 0"	6' - 8"	DP_F	ALUM.	1 3/4"	ALUM.	20 MINS.	Lockset
143	4' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
144	2' - 6"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
145	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
146	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
201	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
202	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	45 MINS.	
219	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
224	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
236	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
301	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
302	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
319	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
324	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
336	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
401	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
402	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
419	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.	20 MINS.	
436	3' - 0"	6' - 8"	DP-N	WOOD	1 3/4"	H.M.	90 MINS.	Panic Hardware
501	3' - 0"	6' - 8"	DP_F	H.M.	1 3/4"	H.M.		
A	3' - 0"	6' - 8"	DP-G	WOOD	1 3/4"	H.M.	20-Minute	
B	3' - 0"	6' - 8"	DP_F	WOOD	1 3/4"	H.M.		
C	3' - 4"	6' - 8"	DP-F-SD	WOOD	1 1/2"	H.M.		
C1	3' - 0"	6' - 8"	DP-F-SD-B	WOOD	1 1/2"	H.M.		Guestroom Bathroom sliding door, NT2.
D	3' - 0"	6' - 8"	DP_F	WOOD	2"	H.M.		Double acting Guestroom connecting door.
G	5' - 0"	8' - 0"	DUM	WOOD	2"	H.M.		Dumpster-Metal with Privacy Panel
T	2' - 3"	6' - 8"		TOILET	1 3/4"	ALUM.		As per Manufacturer's Specs.

Window Schedule				
Type Mark	Width	Height	Sill Height	Count
W1	8' - 0"	4' - 5"	2' - 7"	115
W3	8' - 0"	6' - 8"	3"	10
W4	5' - 0"	6' - 0"	1' - 0"	13
W5	4' - 0"	6' - 0"	1' - 0"	13
W6	5' - 0"	6' - 8"	2"	1
Grand total: 152				





NOTE:
5" W X 1'-5" H, MAX. 85 SQ.IN. WIRED GLASS PANEL FOR DOORS IN A 90 MIN. DOOR PANEL TYPE DP_N IN A 2 HOUR RATED WALL.

7" W X 1'-10" H, MAX. 155 SQ.IN. WIRED GLASS PANEL FOR DOORS IN A 45 MIN. DOOR PANEL TYPE DP_N IN A 1 HOUR RATED WALL.

GLASS IN 1 HOUR RATED RATED DP_FG DOORS AND SIDE LITES TO BE 45 MIN. RATED FIRELITE NT GLASS.

ALL GLASS IN INTERIOR DOORS AND SIDELIGHTS ARE TO BE GL-1 TEMPERED OR LAMINATED SAFETY GLASS.

ALL GLASS IN EXTERIOR DOORS AND SIDELIGHTS ARE TO BE GL-10 TEMPERED OR LAMINATED SAFETY GLASS.

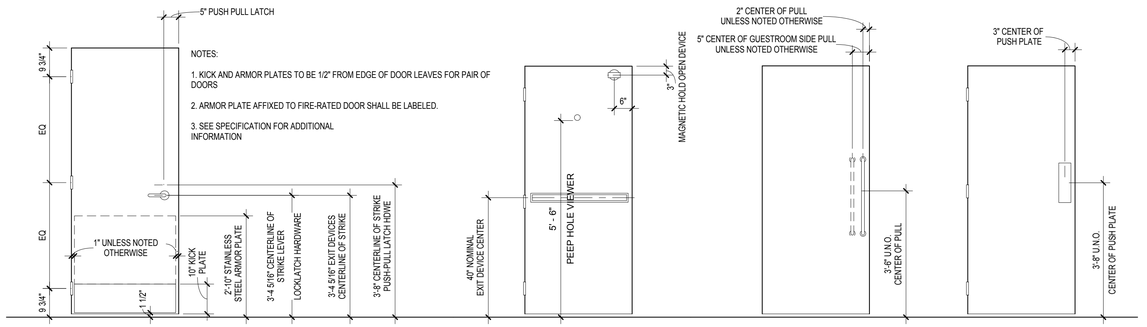
EXTERIOR FLUSH DOOR ARE TO BE INSULATED HOLLOW METAL DOORS.

FGA DOORS ARE TO BE ALUMINIUM FRAMED DOORS WITH EXTERIOR GL-10 OR INTERIOR GL-1 TEMPERED OR LAMINATED SAFETY GLASS.

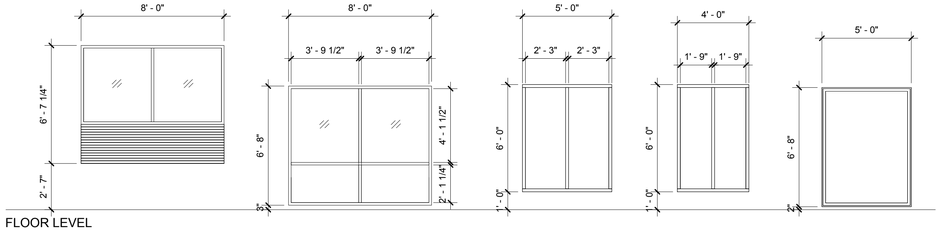
ALL OTHER DOORS ARE TO BE PLASTIC LAMINATE FACED WOOD DOORS.

DOOR PANEL TYPES

Door Panel Legend
1/4" = 1'-0"



1 Door Hardware Legend
1/2" = 1'-0"



WINDOW LEGEND:

1. ALL WINDOW FRAMES TO HAVE THERMAL BREAK.
2. PTAC UNITS, EXTERIOR LOUVERS TO BE INTEGRAL WITH THE WINDOW FRAMES.
3. GUEST ROOM WINDOWS TO HAVE DOUBLE-GLAZED.
4. CONTRACTOR TO SUBMIT WINDOW SUBMITTAL FOR REVIEW BY ARCHITECT.

Window Legend
1/4" = 1'-0"

NOTES:

1. DOOR FINISHES ARE STAIN GRADE OAK, PLASTIC LAMINATE, PAINTED OR PREFINISHED.
2. GLASS COLOR OF ENTRANCE DOORS AND ALUMINUM STOREFRONTS TO BE SELECTED BASED ON THE EXTERIOR SCHEME THAT IS USED.
3. PROVIDE REMOTE CARD READERS AT ALL EXTERIOR ENTRANCE DOORS, INCLUDING MAIN ENTRY, AND AT EXERCISE ROOM, GUEST LAUNDRY AND RECOMMENDED AT LINEN STORAGE ROOMS.
4. PROVIDE PANIC HARDWARE ON ALL EGRESS DOORS INCLUDING STAIRWELLS.
5. AUTOMATIC SLIDING DOORS SHALL BE PROVIDED AT THE LOBBY ENTRANCE. SINGLE SLIDERS ARE NOT ALLOWED.
6. ALL DOOR RATING REQUIREMENTS SHALL BE VERIFIED WITH THE LOCAL JURISDICTION.
7. AUTOMATIC CLOSING AND LATCHING DEVICE TO BE PROVIDED ON ALL DOORS INCLUDING THE PUBLIC RESTROOMS, STORAGE, MAINTENANCE, EQUIPMENT ROOMS, GUESTROOMS AND EGRESS DOOR AS PER FRANCHISE STANDARDS.

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 8536 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Door & Window Schedule

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	Author	A702
Checked by	Checker	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

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1 Firewall Level 1
1/8" = 1'-0"

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,717	A-3	15	181
1ST	STORAGE/MECH.	1,430	S-2	300	5
1ST	LAUNDRY	469	F-1	100	5
1ST	OFFICE	651	B	100	7
1ST	RESIDENTIAL	6,318	R-1	200	32
2ND	RESIDENTIAL	10,492	R-1	200	52
2ND	STORAGE/MECH.	727	S-2	300	2
3 TO 5	RESIDENTIAL	10,823	R-1	200	54
3 TO 5	STORAGE	396	S-2	300	1

FIRE WALL LEGEND

INDICATES ONE HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

INDICATES TWO HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

NOTE:
ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
ALL OPENINGS AND PENETRATIONS IN FIRE RATED WALLS NEED TO MEET CODE REQUIREMENTS
ALL DEMISING WALLS BETWEEN GUEST ROOMS TO BE 1 HOUR FIRE RATED.
ALL CORRIDOR WALLS TO BE 1 HOUR FIRE RATED
ALL VERTICAL SHAFTS BETWEEN FLOORS TO BE 2 HOUR FIRE RATED.
ALL MECHANICAL ROOMS TO BE 2 HOUR FIRE RATED.

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI
2/27/15

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Firewall Plan 1st Floor

Phase
Construction Documents

Project No.	14-081	Sheet No.	A801
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

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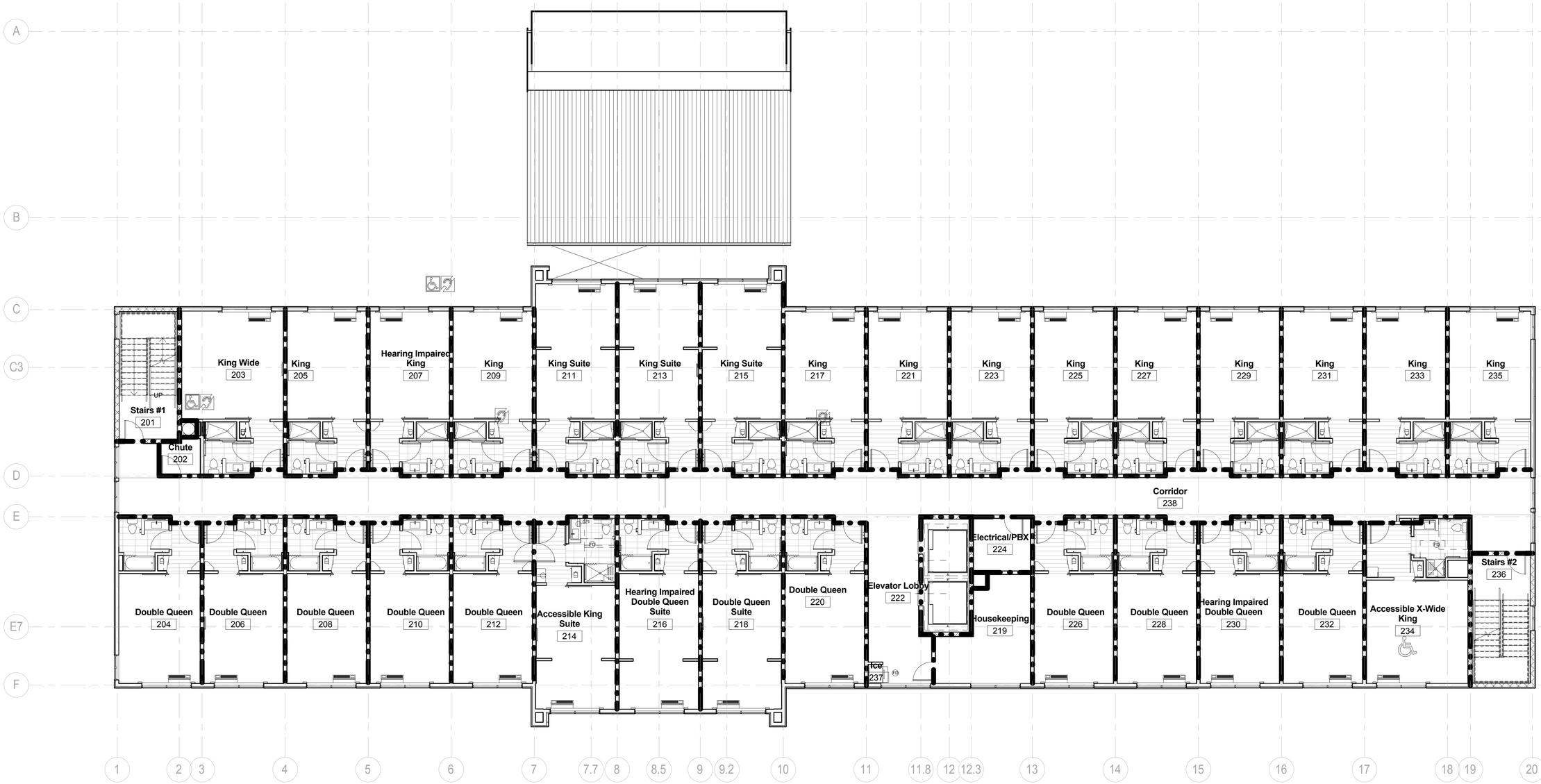

1 Firewall Level 2
1/8" = 1'-0"

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,717	A-3	15	181
1ST	STORAGE/MECH.	1,430	S-2	300	5
1ST	LAUNDRY	469	F-1	100	5
1ST	OFFICE	651	B	100	7
1ST	RESIDENTIAL	6,318	R-1	200	32
2ND	RESIDENTIAL	10,492	R-1	200	52
2ND	STORAGE/MECH.	727	S-2	300	2
3 TO 5	RESIDENTIAL	10,823	R-1	200	54
3 TO 5	STORAGE	396	S-2	300	1

FIRE WALL LEGEND

INDICATES ONE HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

INDICATES TWO HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

NOTE:
ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
ALL OPENINGS AND PENETRATIONS IN FIRE RATED WALLS NEED TO MEET CODE REQUIREMENTS
ALL DEMISING WALLS BETWEEN GUEST ROOMS TO BE 1 HOUR FIRE RATED.
ALL CORRIDOR WALLS TO BE 1 HOUR FIRE RATED
ALL VERTICAL SHAFTS BETWEEN FLOORS TO BE 2 HOUR FIRE RATED.
ALL MECHANICAL ROOMS TO BE 2 HOUR FIRE RATED.

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH MISHRA
8636
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Firewall Plan 2nd Floor

Phase
Construction Documents

Project No.	14-081	Sheet No.	A802
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

3/2/2015 5:16:29 AM

1 Firewall Level 3
1/8" = 1'-0"

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,717	A-3	15	181
1ST	STORAGE/MECH.	1,430	S-2	300	5
1ST	LAUNDRY	469	F-1	100	5
1ST	OFFICE	651	B	100	7
1ST	RESIDENTIAL	6,318	R-1	200	32
2ND	RESIDENTIAL	10,492	R-1	200	52
2ND	STORAGE/MECH.	727	S-2	300	2
3 TO 5	RESIDENTIAL	10,823	R-1	200	54
3 TO 5	STORAGE	396	S-2	300	1

FIRE WALL LEGEND

INDICATES ONE HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

INDICATES TWO HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

NOTE:
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ALL CORRIDOR WALLS TO BE 1 HOUR FIRE RATED
ALL VERTICAL SHAFTS BETWEEN FLOORS TO BE 2 HOUR FIRE RATED.
ALL MECHANICAL ROOMS TO BE 2 HOUR FIRE RATED.

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REVISIONS

No.	Date	Description

REGISTERED ARCHITECT ASHISH MISHRA 8336 STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Firewall Plan 3rd Floor

Phase
Construction Documents

Project No.	14-081	Sheet No.	A803
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

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Holiday Inn Express & Suites

1 Firewall Level 4
1/8" = 1'-0"

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,717	A-3	15	181
1ST	STORAGE/MECH.	1,430	S-2	300	5
1ST	LAUNDRY	469	F-1	100	5
1ST	OFFICE	651	B	100	7
1ST	RESIDENTIAL	6,318	R-1	200	32
2ND	RESIDENTIAL	10,492	R-1	200	52
2ND	STORAGE/MECH.	727	S-2	300	2
3 TO 5	RESIDENTIAL	10,823	R-1	200	54
3 TO 5	STORAGE	396	S-2	300	1

FIRE WALL LEGEND

INDICATES ONE HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

INDICATES TWO HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

NOTE:
ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
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ALL CORRIDOR WALLS TO BE 1 HOUR FIRE RATED
ALL VERTICAL SHAFTS BETWEEN FLOORS TO BE 2 HOUR FIRE RATED.
ALL MECHANICAL ROOMS TO BE 2 HOUR FIRE RATED.

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REVISIONS		
No.	Date	Description

REGISTERED ARCHITECT
ASHISH K. MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Firewall Plan 4th Floor

Phase
Construction Documents

Project No.	14-081	Sheet No.	A804
Prepared by	Author		
Checked by	Checker		
Date	Feb. 27, 2015		

Review

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Holiday Inn Express & Suites

General Construction Notes:

1. It is not the intent of these construction notes to cover all details and/or the specification requirements for the project.
2. The CONTRACTOR shall provide reasonable access to residential, commercial and public properties in the project area.
3. The CONTRACTOR shall be responsible for furnishing all labor, materials, equipment and incidental items needed to provide adequate construction signing, barricades, traffic control devices and other related items for the project area, during the construction period. Maintenance and protection of traffic must comply with the MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. This work is to be considered an incidental item and the cost of this item is to be included in other pay items.
4. All existing utility locations shown are approximate based off of information provided by the utility owner's. Prior to installation of any portion of the water, sewer or storm drain infrastructure shown in these plans the CONTRACTOR is to verify the locations (horizontal and vertical) of all existing utilities & utility unfrastructure in the project area prior to construction. Should there be any conflicts or discrepencies the CONTRACTOR is to notify ENGINEER in writing.
5. The CONTRACTOR shall bear full responsibility for the protection of all private and public utilities even though they may not be shown on the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the utility owner by the CONTRACTOR. This includes all service laterals of any kind.
6. The CONTRACTOR will not be responsible for demolishing or removing any existing above or below ground telephone, power, or gas lines but shall be responsible for coordinating his work with all local utility companies.
7. The CONTRACTOR shall verify all shown dimensions and elevations (existing and proposed) in the field and shall satisfy himself as to the accuracy between work set forth on these plans and the work required in the field. Any discrepancies shall be brought to the attention of the ENGINEER prior to construction.
8. The CONTRACTOR is required by law to notify Mississippi One Call @ 601-362-4374 at least 48 hours prior to construction to locate all existing utilities on site.
9. The CONTRACTOR shall be responsible for notifying all utility companies at a minimum of 48 hours prior to commencing work in the project area. Likewise, the CONTRACTOR is responsible for coordinating his work and that of the involved utilities in the project area.
10. All testing required by the project specifications or Utility Ordinances shall be done by an approved testing laboratory at the expense of the CONTRACTOR.
11. The CONTRACTOR shall restore all disturbed areas to match pre-construction condition or better after completion of the project.
12. The CONTRACTOR is to provide the ENGINEER a Certification that the project was completed according to the Project Plans and Specifications.
13. Roads to be kept clean of mud and debris at all times.
14. The CONTRACTOR shall carefully remove, store and reinstall all City/County/State owned signs whose removal is required by his construction work in the project area. It shall be the CONTRACTOR'S responsibility to arrange for the appropriate agency to inspect all signs scheduled for removal prior to their removal. Once said signs have been removed, it will be assumed that they were in good condition at the time of removal. Any signs damaged or lost by the CONTRACTOR shall be replaced at no cost to the appropriate agency.
18. Elevations are based on M.S.L. Datum.
19. The CONTRACTOR shall procure all required permits and licenses; pay all fees, charges and taxes (including sales and use taxes); give all required notices; maintain an orderly and safe flow of traffic; maintain proper stormwater drainage; locate and avoid disrupting all existing utilities; transport all equipment and materials as required by any agency having jurisdiction over any road use thereof; transport, handle and install all materials in accordance with their respective manufacturer's recommendations and project specifications; properly backfill all trenches and excavations; maintain a clean and orderly work site; promptly remove all equipment, debris and excess soils and/or materials on completion of the work; and restore to substantially the same or better conditions all disturbed pavements and ground surfaces.
20. No activity required for the accomplishment of the Work is to be performed when soil conditions are not conducive therefor. Drainage shall be maintained at all times. CONTRACTOR shall conduct its operations and activities in such a manner as to minimize the erosion of soils and the deposition of sediments into existing drainage courses downstream of project work site or onto adjacent properties.
21. CONTRACTOR shall be responsible for removing any and all existing structures necessary for completion of the work described in these plans unless otherwise noted.

Site Grading And Paving Notes:

1. Technical specification for materials and construction methods for paving and earthwork this project shall conform to the 1990 edition of MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, these plans and specifications and the geotechnical report titled "Surface Investigation For Holiday Inn Express, Southcrest Parkway, SOUTHAVEN, Mississippi", Prepared By Geotechnical Associates Network, LLC. Should there be any conflicts between the notes stated herein or the project specifications with the geotechnical report, the GEOTECHNICAL REPORT shall govern.
2. Earth excavation shall include clearing, stripping, and the stockpiling of topsoil, removing unsuitable materials, the construction of embankments, non-structural fills, final shaping and trimming to the lines, grades and cross sections shown on the plans. All unsuitable or excess material shall be disposed of as directed by the ENGINEER.
3. As an initial step of site preparation, trees and vegetation within the construction limits should be removed. Tree and vegetation removal (clearing and grubbing) will include stumps and root systems. Holes created by tree and stump removal should be backfilled with compacted select fill soils.
4. After clearing and grubbing, stripping (6" minimum depth) should be performed to a sufficient depth within construction areas to remove organic-laden surficial soils, vegetation, debris, brush and roots (topsoil). Topsoil excavated shall be stockpiled on the site in areas designated by the ENGINEER until such time that this topsoil can be used for final grading. This is not a pay item, but shall be an absorbed cost.
5. Once clearing, grubbing, and stripping has been completed the CONTRACTOR shall excavate areas that are to be cut to reach plan grade. CONTRACTOR shall then notify the GEOTECHNICAL ENGINEER for a field inspection of the subgrade prior to placement of any select fill. CONTRACTOR shall have equipment available to perform a proof roll or for further excavation should the GEOTECHNICAL ENGINEER deem necessary. Fine-grained soils exposed after stripping, excavation and undercutting are susceptible to pumping and/or becoming unstable and rutting excessively under wet conditions. The construction techniques, types of equipment utilized and site drainage provided during construction will have a great effect on the performance of the fine-grained soils throughout the project. The routing of rubber-tired equipment should be controlled to minimize traffic over the site. All traffic should be discouraged during periods of inclement weather.
6. Import select fill material shall consist of select, non-organic and debris-free silty clays (CL) having a plasticity index (PI) within the range of 8 to 22 and a liquid limit less than 40.
7. Fill soils should be compacted from lifts not exceeding 8" in loose thickness to not less than 98% of standard Proctor maximum dry density (ASTM D 698). Stability must be evident during compaction of each lift before any subsequent lifts of fill material are added.
8. The grading and construction of the site improvements shall not cause the ponding of storm water. All areas adjacent to these improvements shall be graded to allow positive drainage. Positive drainage shall be maintained at all times.
9. The CONTRACTOR shall take special care in grading near trees, bushes and shrubs which are not to be removed so as not to cause injury to roots or trunks.
10. The CONTRACTOR shall use care in grading or excavation near any and all existing items which are not indicated to be removed. Any damage done to these existing items by the CONTRACTOR'S operations shall be repaired at the CONTRACTOR'S expense.
11. Proposed elevations indicate finished conditions. For rough grading elevations allow for thickness of proposed items (roads, walks, drives, etc.) or topsoil as shown.
12. Street paving and curbs to remain shall be protected from damage, and if damaged, shall be replaced promptly.

Water/Sewer Notes:

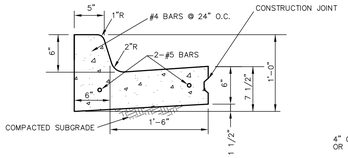
1. All materials and construction shall be in accordance with these plans and project specifications.
2. The CONTRACTOR shall provide all the materials and appurtenances necessary for the complete installation of water and sewer utilities.
3. The CONTRACTOR shall make all ties to existing utilities and coordinate them with the CITY OF SOUTHAVEN Public Works Department.
4. All manholes, valve boxes, and fire hydrants shall be adjusted to proper line and finished grade by the CONTRACTOR after placing of pavement and before final acceptance.
5. Trenching and embedment work shall conform to all requirements and shall follow the typical cross-section detail for trenching. Unless specified otherwise, backfill material shall be compacted to 95% density of Standard Proctor in accordance with ASTM D-698. All backfill material shall be compacted in 6" layers.
6. The end of water and sewer lines shall be tightly capped or plugged and marked until such time as service connections are made or lines are extended.
7. All water lines and sanitary sewer lines shall be installed with a minimum of three feet (3') of cover over the top of the pipe at finished grade or as shown otherwise. Where installed in a roadway section the minimum cover over the top of the pipe shall be four feet (4'). Backfill shall be placed in 6" lifts and compacted to 96% Standard Proctor density.
8. Ten feet (10') of horizontal clearance is required between all water and sewer lines. At locations where the water and sewer lines must cross each other there shall be a minimum clearance of 18" with the water passing over the sewer. If these separations cannot be met, the sewer line shall be constructed to the same specifications as the water line and be water tight until such a point where minimum separation can be met. Where gravity flow sewers cross above water lines, the sewer pipe for a distance of ten (10') feet, each side of the crossing, either shall be ductile iron pressure pipe without any joint closer than three (3') feet to the crossing, or shall be fully encased in concrete.
9. The utility CONTRACTOR shall be responsible for testing the water and sewer systems in accordance with the MSDH REGULATIONS and shall notify the ENGINEER and the CITY OF SOUTHAVEN at least 48 hours in advance of performing any tests. Additional tests on water and sewer lines will be as required by the CITY OF SOUTHAVEN. A copy of all test results shall be faxed to BENCHMARK ENGINEERING & SURVEYING, LLC @ 601-591-0711.
10. The lengths of the sanitary sewer lines are measured from center of manhole to center of manhole.
11. Fittings for all applications of water and sewer lines shall be an absorbed cost.

Storm Drain Notes:

1. Technical specifications for all materials and construction methods for the storm drain construction shall be in accordance with the latest edition of MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION or the manufacturer's recommendation.
2. Joints shall be constructed and jointed together in such a manner that no spill through of backfill will occur.
3. Any additional excavation required for installation of Bedding Material for storm drain pipe shall be included in the contract price per linear foot of storm drainage pipe.
4. At the expense of the CONTRACTOR, the CONTRACTOR shall maintain existing drainage patterns and construct temporary structures, embankments and culverts as required to maintain the existing drainage system and capacity in the work area. Any and all items constructed during the progress of work that are not necessary for the final drainage system are to be removed and the area restored to is original condition.
5. Pipes under paved areas can be R.C.P. or HP pipe as manufactured by ADS.

Erosion Control Notes:

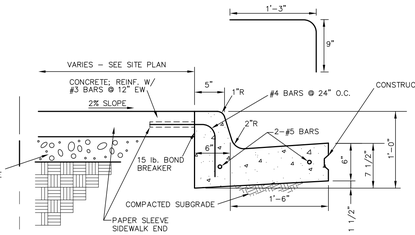
1. Erosion and sediment control materials and installation shall be in accordance with the latest edition of MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. The CONTRACTOR shall take all necessary measures to control erosion and water pollution through the construction period. All temporary erosion control measures shall be in place before earth moving operations begin. Clearing and grubbing shall be held to the minimum width necessary to accommodate roadway slopes. Embankments and excavated areas shall be promptly stabilized to minimize erosion. Baled straw erosion checks and silt fencing shall be used along the toe of fill slopes, in ditches, and in other areas where erosion is a problem and silt laden runoff may enter a stream or adjacent property.
3. Any stockpiled soil or fill material shall be located and treated in a manner to prevent silt from entering streams. No excavated material shall be discharged into ditches. The CONTRACTOR shall dispose of all excavated material in a location approved by the ENGINEER.
4. All soil erosion and sediment control measures shall be continually maintained. The CONTRACTOR shall keep streets and sidewalks adjacent to the limits of construction free of mud and debris.
5. CONTRACTOR shall comply with the erosion control requirements of the CITY OF SOUTHAVEN and the requirements of the Mississippi Department of Environmental Quality.
6. CONTRACTOR to utilize Best Management Practices for erosion and sediment control.



INTEGRAL CURB FOR CONCRETE LOTS
N.T.S.

NOTES:
1. PROVIDE EXPANSION JOINTS @ 15'0" O.C. (MAX)
2. GUTTER TO MATCH CROSS SLOPE OF ADJACENT DRIVE (INVERT WHERE NECESSARY TO GET WATER TO DRAIN)

MATERIAL



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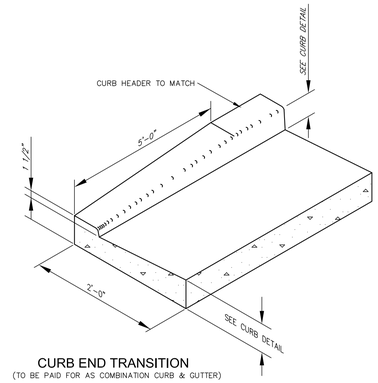
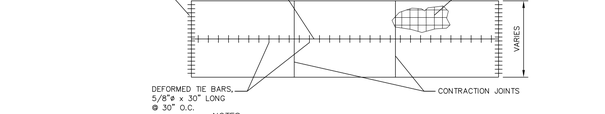
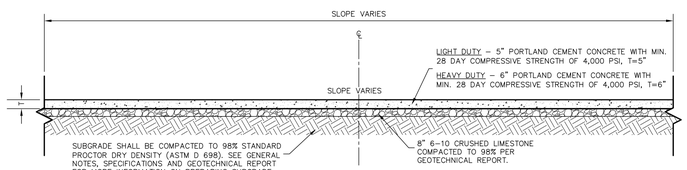


CURB END TRANSITION
(TO BE PAID FOR AS COMBINATION CURB & GUTTER)



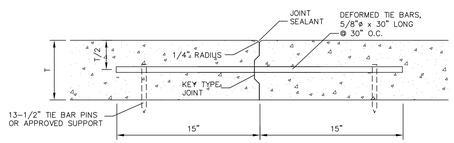
NOTES:
1. LONGITUDINAL JOINTS REQUIRED ON PAVEMENT THAT IS 24' OR WIDER AND IS TO BE CENTERED.
2. SEE DETAILS FOR MORE INFORMATION OF JOINT CONSTRUCTION AND DOWEL BARS.
3. KEY TYPE JOINT SHALL BE USED ON ALL LONGITUDINAL JOINTS WHEN ADJACENT LANE IS NOT POURED AT THE SAME TIME.

TYPICAL JOINT SPACING FOR RIGID PAVEMENT
N.T.S.



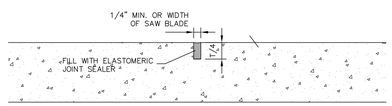
NOTE: CONCRETE PAVING SHALL BE NON-REINFORCED PORTLAND CEMENT CONCRETE WITH A MINIMUM 28-DAY FLEXURAL STRENGTH OF 650 PSI AND A COMPRESSIVE STRENGTH OF 4,000 PSI. JOINT SPACING, JOINT CONFIGURATION, MIX DESIGN, MIX PLACEMENT, AND CURING SHOULD CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE PORTLAND CEMENT ASSOCIATION (PCA).

TYPICAL SECTION OF RIGID PAVEMENT STRUCTURE



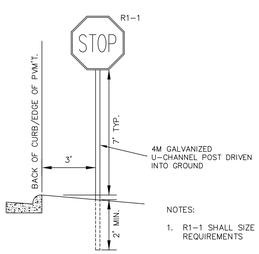
NOTES:
1. KEY TYPE JOINT SHALL BE USED ON ALL LONGITUDINAL CONSTRUCTION JOINTS WHEN ADJACENT LANE IS NOT POURED AT THE SAME TIME.
2. ALTERNATIVE METHODS FOR KEY TYPE JOINT SHALL BE PRESENTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

CONSTRUCTION JOINT DETAIL



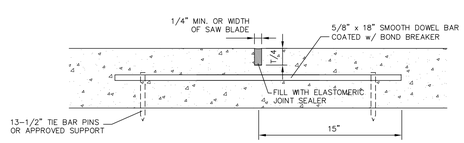
NOTE:
1. CONTRACTION JOINTS TO BE SAWED, MAXIMUM 20' INTERVAL

CONTRACTION JOINT DETAIL
N.T.S.

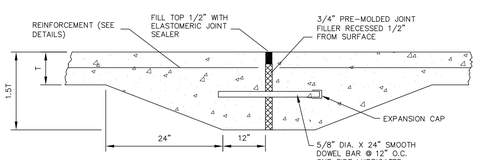


NOTES:
1. R1-1 SHALL SIZE TO MEET CITY REQUIREMENTS

TRAFFIC SIGN INSTALLATION
N.T.S.



LONGITUDINAL JOINT DETAIL
N.T.S.



TRANSVERSE EXPANSION JOINT DETAIL
N.T.S.

R7-8 (12"x18") w/ SP-1 (6"x12") R7-8 12"x18"

VAN ACCESSIBLE (GREEN AND BLUE ON WHITE)

NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE BLUE. (CURB FACE OR PARKING BLOCKS SHALL BE PAINTED BLUE.)
2. PARKING BLOCKS REQUIRED WHERE NO CURB EXIST TO PROTECT SIGN.
3. ALL STRIPING AND SIGNAGE (HEIGHT, LOCATION, COLORS, ETC.) TO MEET ADA & CITY REQUIREMENTS.

TYPICAL HANDICAPPED SIGNAGE DETAIL

BENCHMARK
Engineering & Surveying, LLC
101 Highpointe Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077 Fax: 601-591-0711
E-mail: benchmark@benchmarks.net

REVISIONS:

DATE: 02/27/15 | DRAWN: CBA
CHECKED: GAB | SCALE:
REF C/L:
EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
GENERAL NOTES & DETAILS

GREGORY ALLEN BONDS
REGISTERED PROFESSIONAL ENGINEER
16335
STATE OF MISSISSIPPI
Gregory A. Bonds
6/22/15

SHEET NUMBER
C1.0

PROJECT NUMBER
B-3619

LEGEND

PL (line)	PROPERTY LINE
(line)	MINIMUM BUILDING SETBACK LINES
(line)	EASEMENT LINE (TYPE AND WIDTH AS SHOWN)
(line)	EXISTING EDGE OF PAVEMENT
(line)	EXISTING CURB
(line)	PROPOSED EDGE OF PAVEMENT
(line)	PROPOSED CURB
(hatch)	PROPOSED SIDEWALK
(hatch)	PROPOSED HEAVY DUTY CONCRETE PAVING
(hatch)	PROPOSED AIRDRAIN GEOCELL PAVING

PROJECT SITE INFORMATION:

CURRENT ZONING – PUD, PLANNED UNIT DEVELOPMENT

MINIMUM SETBACK REQUIREMENTS:

FRONT – 40', SIDE – 10', REAR – 20'

TOTAL ACREAGE: 2.72 ac (118,432.72 ± s.f.)

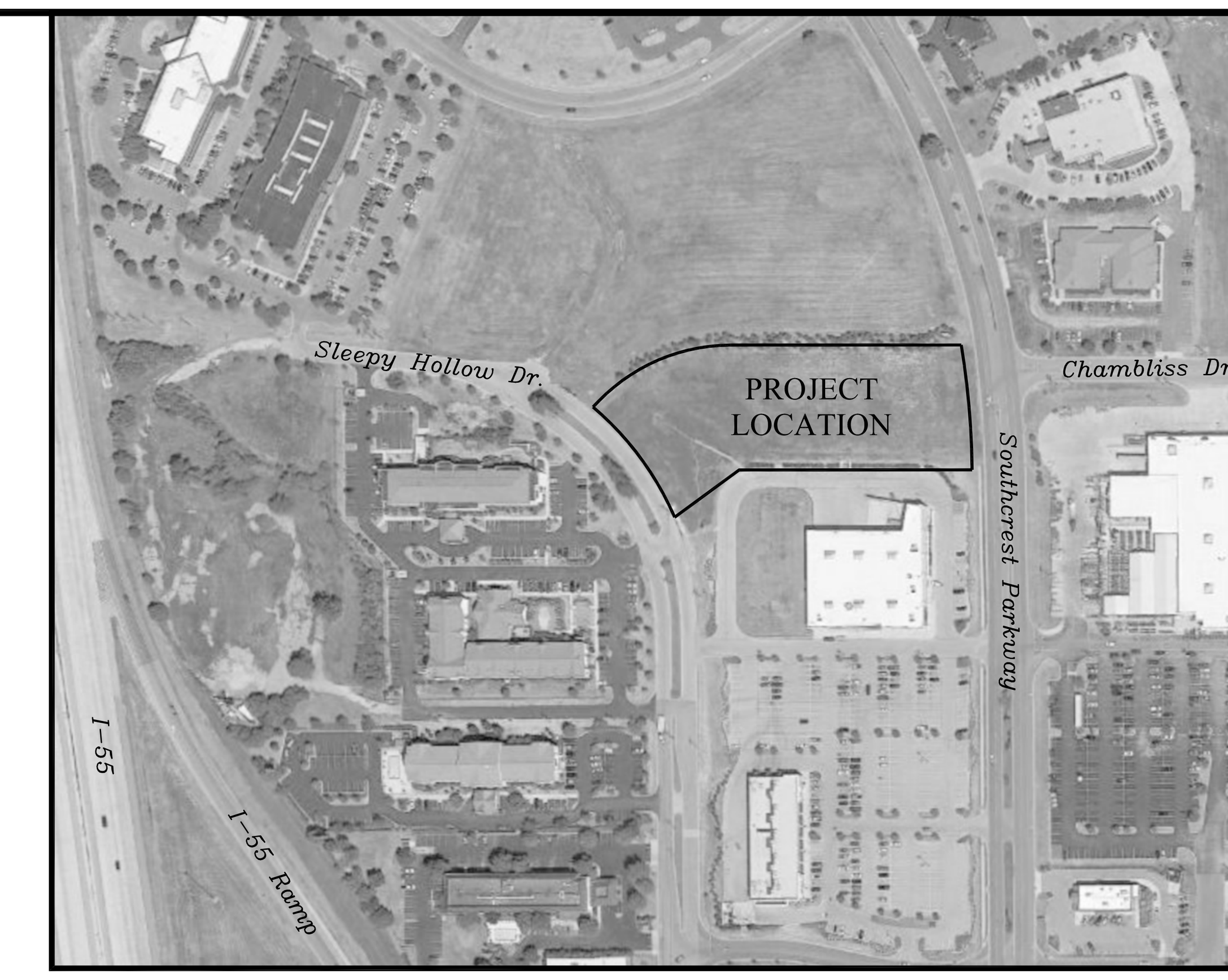
ACREAGE BREAKDOWN:

HOTEL – GROUND FLOOR 0.34 ac (14,860 s.f.), 13%
SIDEWALKS – 0.054 ac (2,366 s.f.), 2%
NEW DRIVES/PARKING – 1.20 ac (52,320 s.f.), 44%
GREEN AREA – 1.13 ac (49,353 s.f.), 41%

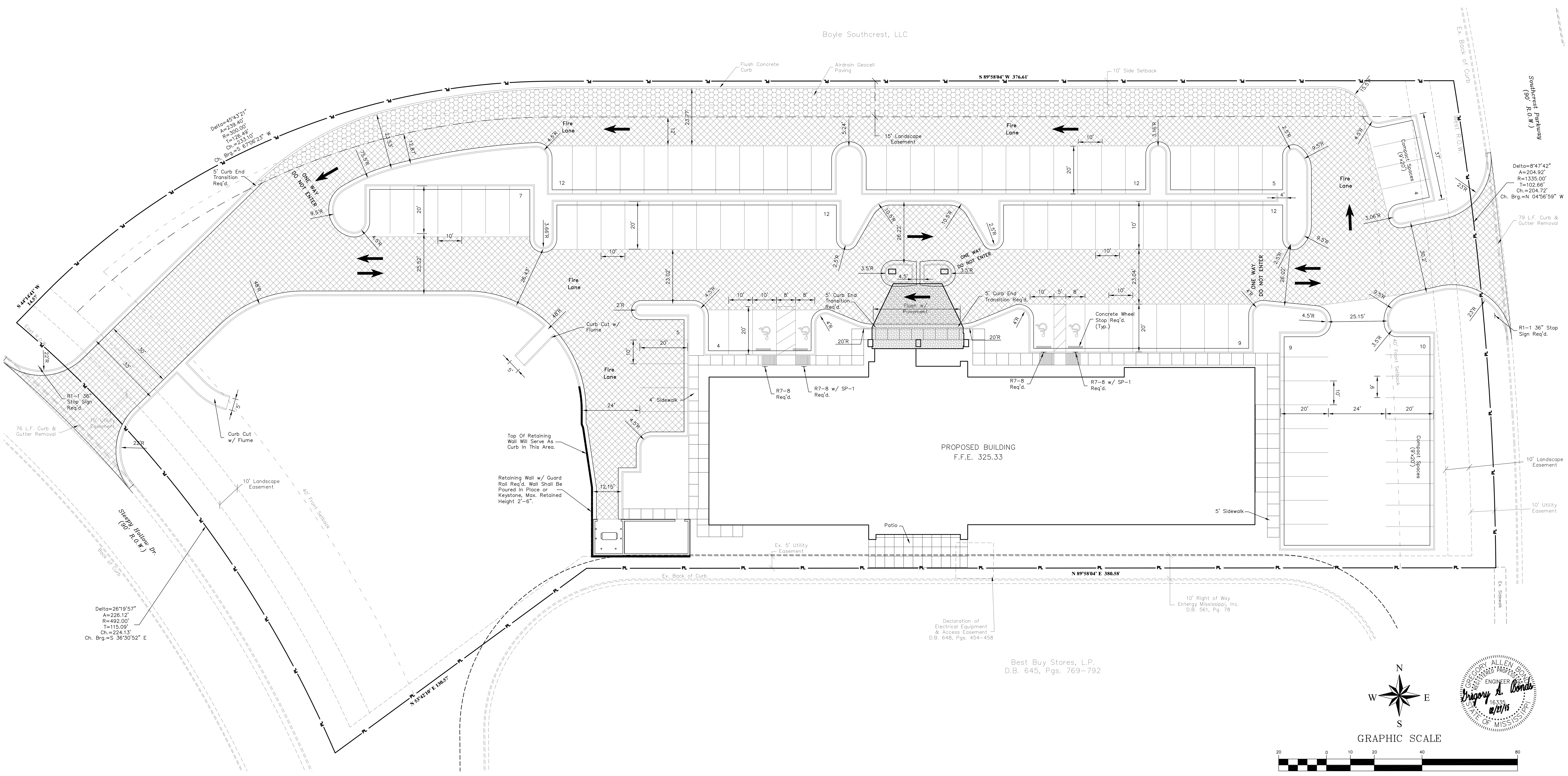
PARKING COUNT – 101 INCLUDING 4 HANDICAP

NOTE:

1. RADIAL DIMENSIONS ARE MEASURED FROM THE BACK OF CURB.
2. SEE ARCHITECTURAL PLANS FOR MORE DETAILS ON THE BUILDINGS.
3. PAVEMENT NOT SHOWN AS HEAVY DUTY WILL BE LIGHT DUTY CONCRETE PAVING.
4. SEE TYPICAL SECTIONS FOR MORE DETAILS ON PAVING REQUIREMENTS.
5. ALL PARKING SPACES NOT LABELED AS COMPACT SPACES WILL BE 10"X20".
6. THIS PARCEL IS LOCATED IN FLOOD ZONE X (NOT SHADED) ACCORDING TO FLOOD INSURANCE RATE MAP NO. 28033C0078G, COMMUNITY PANEL NO. 280331 0078 G, EFFECTIVE DATE: JUNE 4, 2007.
7. IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN PERMISSION TO PERFORM WORK ON ADJACENT PROPERTY FROM THE PROPERTY OWNER SHOULD IT BE NECESSARY TO COMPLETELY INSTALL IMPROVEMENTS.



VICINITY MAP



N
W E
S

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GREGORY ALLEN BONDS
REGISTERED PROFESSIONAL ENGINEER
16335
STATE OF MISSISSIPPI
Gregory A. Bonds

BENCHMARK
Engineering & Surveying, LLC
101 Highpointe Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077 Fax: 601-591-0711
E-mail: benchmark@benchmarkms.net

DATE: 02/27/15	DRAWN: CBA	REVISIONS:
CHECKED: GAB	SCALE: 1"=20'	
REF C/L:		
EG SURFACE:		
FG SURFACE:		

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

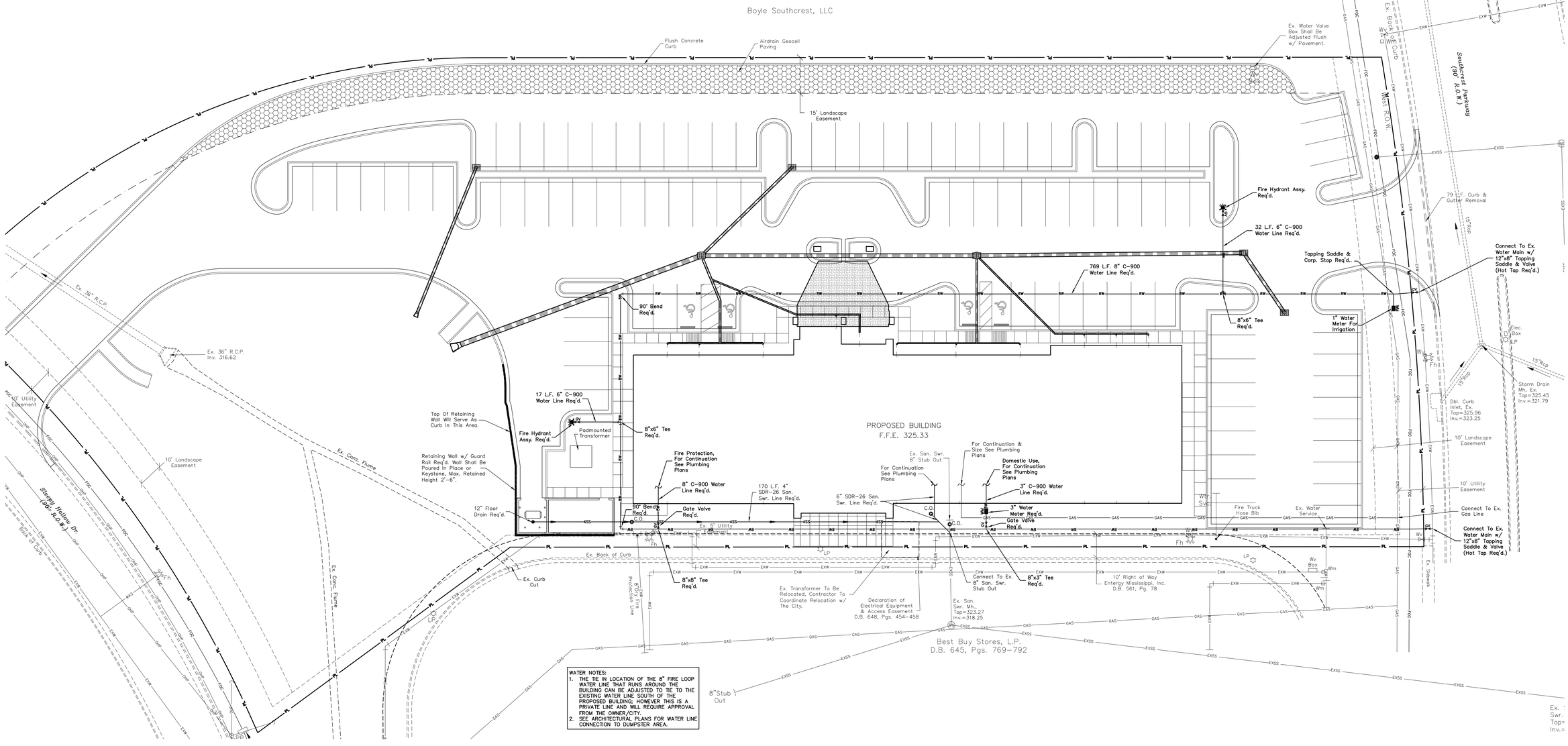
CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
SITE PLAN

SHEET NUMBER
C2.0

PROJECT NUMBER
B-3619



WATER NOTES:
1. THE TIE IN LOCATION OF THE 8" FIRE LOOP WATER LINE THAT RUNS AROUND THE BUILDING CAN BE ADJUSTED TO TIE TO THE EXISTING WATER LINE SOUTH OF THE PROPOSED BUILDING; HOWEVER THIS IS A PRIVATE LINE AND WILL REQUIRE APPROVAL FROM THE OWNER/CITY.
2. SEE ARCHITECTURAL PLANS FOR WATER LINE CONNECTION TO DUMPSTER AREA.

NOTES:

1. SEE NOTES ON SHEET C1.0 FOR MORE INFORMATION.
2. CONTRACTOR TO CONTACT MISSISSIPPI ONE CALL AT 811 FOR A LOCATE PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR TO VERIFY EXISTING LOCATION AND ELEVATION OF ALL UTILITY INFRASTRUCTURE REQUIRED FOR COMPLETION OF THIS PROJECT IN FULL PRIOR TO BEGINNING ANY ASPECT OF CONSTRUCTION. THIS INCLUDES ALL ON-SITE AND OFF-SITE UTILITIES AS REQUIRED. SHOULD ANY DISCREPANCIES BE FOUND THEY SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION IN WRITING TO RECEIVE FURTHER INSTRUCTION.
4. CONTRACTOR SHALL COORDINATE ALL WORK DIRECTLY INVOLVING, CROSSING OR IN THE VICINITY OF AN EXISTING UTILITY LINE WITH UTILITY PROVIDER/OWNER.
5. WATER AND SANITARY SEWER LINES TO BE INSTALLED ACCORDING TO THE PROJECT DETAILS AND SPECIFICATIONS.
6. SLOPE SANITARY SEWER LINES AS REQUIRED BY INDUSTRY STANDARDS.
7. THE DUMPSTER AREA FLOOR DRAIN SHALL BE RATED FOR PROPOSED APPLICATION AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
8. CONTRACTOR TO COMPARE THE PROPOSED SIZE AND PROPOSED BUILDING TIE-IN LOCATION OF ALL WATER AND SANITARY SEWER LINES WITH THE BUILDING/PLUMBING PLANS PRIOR TO CONSTRUCTION.
9. GAS LINE IS SHOWN FOR INFORMATION PURPOSE. CONTRACTOR SHALL COORDINATE w/ GAS PROVIDER FOR ACTUAL TIE IN LOCATION.

LEGEND

- PROPERTY LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD POWER
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER MAIN (SIZE AS SHOWN)
- EXISTING STORM DRAIN CULVERT
- EXISTING MANHOLE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER LINE (SIZE AS SHOWN)
- PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED WATER LINE (SIZE AS SHOWN)
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED GATE VALVE ASSEMBLY
- PROPOSED WATER METER

GREGORY ALLEN BONDS REGISTERED PROFESSIONAL ENGINEER Gregory A. Bonds 16339 8/27/15 STATE OF MISSISSIPPI

N W E S

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

BENCHMARK
Engineering & Surveying, LLC
101 Highpointe Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077, Fax: 601-591-0711
E-mail: benchmark@benchmarkms.net

REVISIONS:

DATE: 02/27/15 | DRAWN: CBA | SCALE: 1"=20'
CHECKED: GAB | REF C/L:
EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

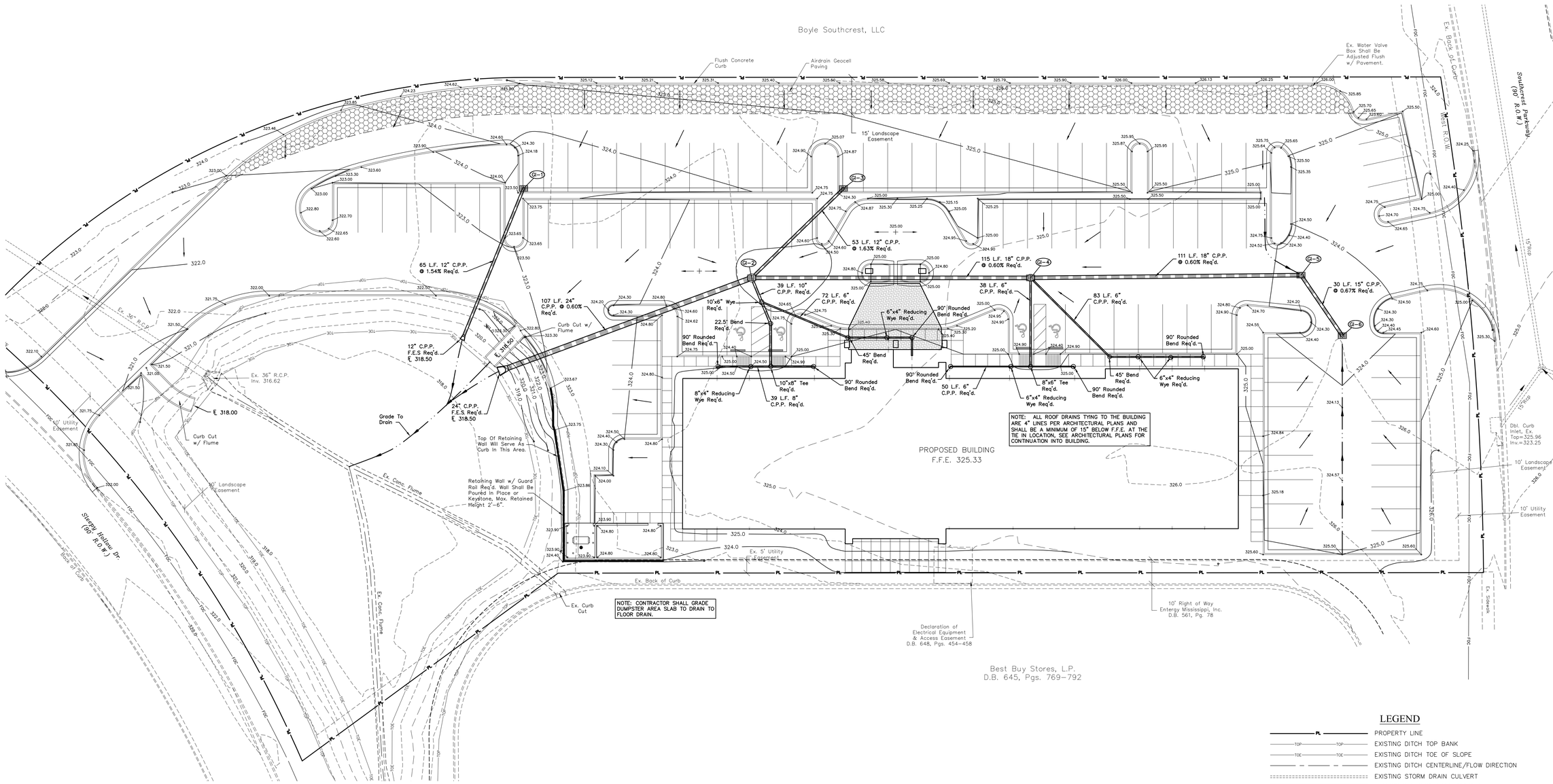
CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
UTILITY LAYOUT

SHEET NUMBER
C3.0

PROJECT NUMBER
B-3619



STORM DRAIN INLET DATA						
STRUCTURE	D.A. (ac)	HL (ft)	s (%)	C	tc (hr/hr)	Q25 (cfs)
CI-1	0.18	148	1.86	0.74	6.85	0.92
CI-2	0.30	142	4.50	0.94	3.18	2.30
CI-3	0.17	146	2.23	0.74	6.56	0.88
CI-4	0.40	150	3.50	0.93	3.52	2.98
CI-5	0.27	130	2.12	0.80	5.36	1.59
CI-6	0.24	120	1.83	0.81	5.22	1.44

* DRAINAGE AREAS (D.A.) AND FLOWS (Q25) ARE FOR INDIVIDUAL INLETS

STORM DRAIN STRUCTURE SCHEDULE

GI-1 (12" BASIN)
Top 323.00
I.O. 319.50

GI-2 (42" BASIN)
Top 323.80
I.I. 319.14
I.I. 319.14
I.O. 319.14

GI-3 (12" BASIN)
Top 323.00
I.O. 320.00

GI-4 (36" BASIN)
Top 324.00
I.I. 319.83
I.I. 319.83
I.O. 319.83

GI-5 (15" BASIN)
Top 323.50
I.I. 320.50
I.O. 320.50

GI-6 (18" BASIN)
Top 323.70
I.O. 320.70

NOTES:

1. SEE NOTES ON SHEET C1.0 FOR MORE INFORMATION.
2. CONTRACTOR TO CONTACT MISSISSIPPI ONE CALL AT 811 FOR A LOCATE PRIOR TO BEGINNING CONSTRUCTION.
3. THIS PARCEL IS LOCATED IN FLOOD ZONE X (NOT SHADED) ACCORDING TO FLOOD INSURANCE RATE MAP NO. 28033C0078G, COMMUNITY PANEL NO. 280331 0078 G, EFFECTIVE DATE: JUNE 4, 2007.
4. SLOPES THAT ARE GREATER THAN 3:1 SHALL RECEIVE SOLID SOD.
5. GRATE INLETS SHALL BE ADS NYLOPLAST BASINS. GRATE DIMENSIONS SHALL BE 2' X 3'.
6. ALL DISTURBED AREAS ARE TO BE REPAIRED TO AS GOOD AS THE ORIGINAL CONDITION OR BETTER. PICTURE DOCUMENTATION OF THESE AREAS SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO DISTURBING.
7. C.P.P. 12" AND LARGER LABELED PIPE SHALL BE HP PIPE AS MANUFACTURED BY ADS. ALL PIPES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPOSED APPLICATION.
8. C.P.P. SMALLER THAN 12" SHALL BE ADS OR EQUAL.

LEGEND

- PL — PROPERTY LINE
- TOP — TOP — EXISTING DITCH TOP BANK
- TOE — TOE — EXISTING DITCH TOE OF SLOPE
- EXISTING DITCH CENTERLINE/FLOW DIRECTION
- EXISTING STORM DRAIN CULVERT
- PROPOSED STORM DRAIN CULVERT
- GI-1 — PROPOSED GRATE INLET
- PROPOSED DIRECTION OF STORM WATER RUNOFF/SWALE LOCATION
- 335 — EXISTING CONTOUR
- 335 — PROPOSED CONTOUR
- 334.50 — PROPOSED SPOT ELEVATION

N W E S

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GREGORY ALLEN DONAHO — REGISTERED PROFESSIONAL ENGINEER — Gregory A. Donaho — 16335 — 6/22/15 — STATE OF MISSISSIPPI

BENCHMARK
Engineering & Surveying, LLC
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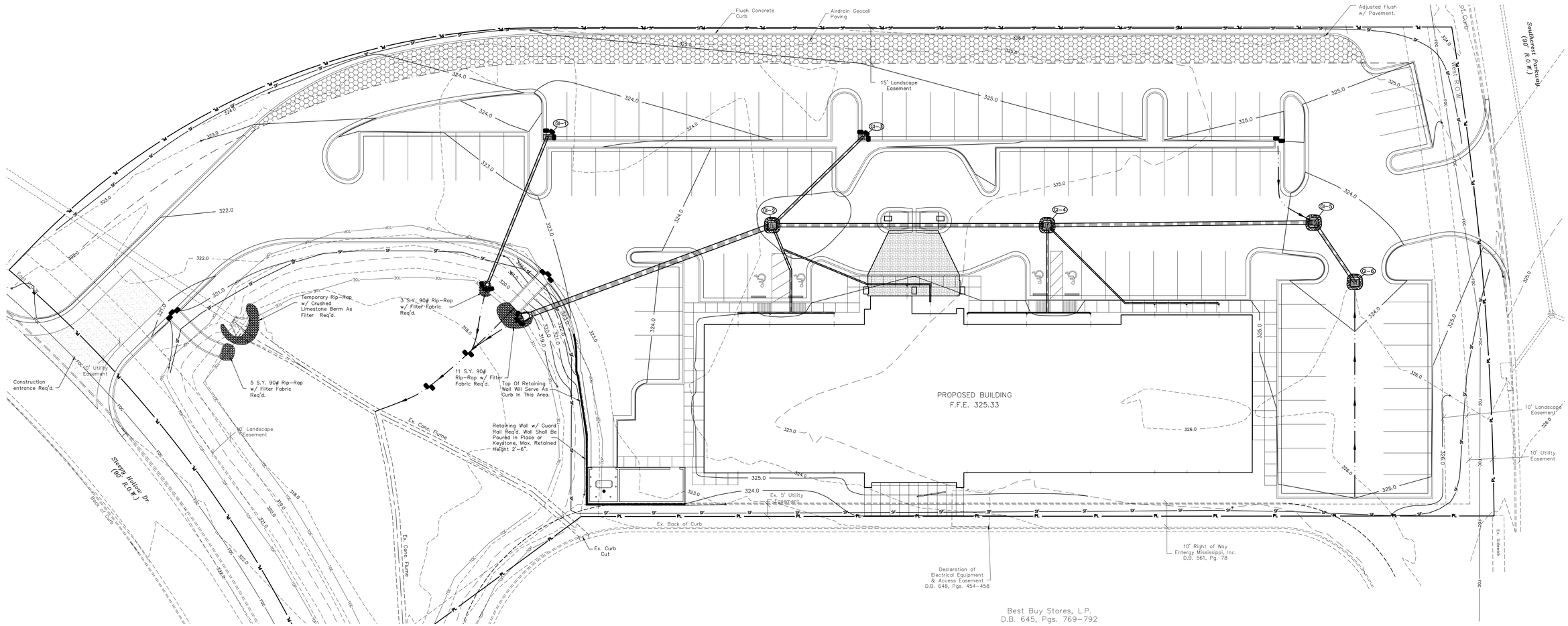
FLOWOOD, MS

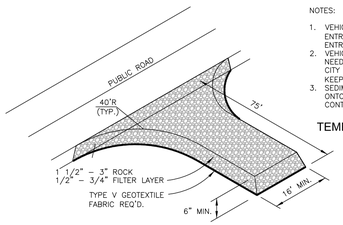
PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
GRADING & DRAINAGE PLAN

SHEET NUMBER
C3.1

PROJECT NUMBER
B-3619

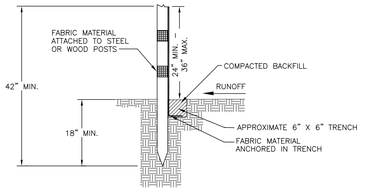




TEMPORARY CONSTRUCTION ENTRANCE DETAIL

NOTES:

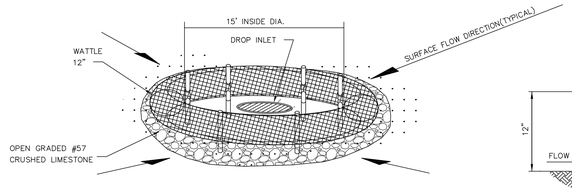
1. VEHICLE TRACKING MAT SHALL BE LOCATED AT EVERY ENTRANCE/EXIT TO THE CONSTRUCTION SITE. ADDITIONAL ENTRANCES MUST BE APPROVED BY CITY PRIOR TO INSTALLATION.
2. VEHICLE TRACKING MAT SHALL BE MAINTAINED BY CONTRACTOR AS NEEDED TO PREVENT ANY MATERIAL FROM BEING TRACKED ONTO CITY STREET. ADDITIONAL ROCK SHALL BE PLACED AS NEEDED TO KEEP INITIAL ROCK THICKNESS (ABSORBED).
3. SEDIMENT AND OTHER MATERIAL SPILLED, DROPPED OR TRACKED ONTO CITY STREET SHALL BE IMMEDIATELY REMOVED BY CONTRACTOR.



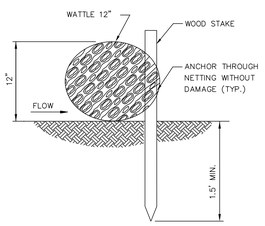
SILT FENCE DETAILS

NOTES:

1. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF .36" IN WIDTH. STEEL POSTS SHALL BE 5' IN HEIGHT AND OF THE SELF FASTENER ANGLE STEEL TYPE.
3. WOOD POSTS SHALL BE A MINIMUM OF 5' IN HEIGHT AND 4" OR MORE IN DIAMETER AND SPACED AT 10' CENTERS.
4. WOODEN STAKES SHALL BE A MINIMUM OF 3' IN HEIGHT AND 1" x 2" AND SHALL BE USED AS NEEDED IN BETWEEN WOODEN POSTS BUT SPACED NO MORE THAN 3' APART AND DRIVEN 8" INTO GROUND.
5. FENCE SHALL BE FASTENED WITH NOT LESS THAN 9 GAGE STAPLES 1" LONG FOR WOODEN POSTS AND 3/4" FOR WOODEN STAKES.
6. ALLOW A 6" OVERLAP OF FABRIC AT JOINTS.



DROP INLET PROTECTION



NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1'MIN.,3'MAX.).
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.

WATTLE INLET PROTECTION

EROSION CONTROL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILL OUT A SMALL CONSTRUCTION NOTICE OF INTENT (SCNOI). A COPY OF THE SCNOI MUST BE KEPT READILY AVAILABLE AT THE JOB SITE. ALL REQUIREMENTS OF THE SCNOI ARE THE CONTRACTOR'S RESPONSIBILITY INCLUDING BUT NOT LIMITED TO ALL REQUIRED INSPECTIONS, WEEKLY REPORTS AND MAINTENANCE OF THE SITE.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES THAT DISTURB EXISTING GROUND.
3. CONTRACTOR IS TO EVALUATE ALL STORM WATER MANAGEMENT CONTROLS A MINIMUM OF ONCE PER WEEK AND AFTER RAINFALL EVENTS TO DETERMINE EFFECTIVENESS OF THE EROSION AND SILTATION CONTROL MEASURES. ADDITIONAL MEASURES TO BE INSTALLED AS NEEDED TO CONTROL SEDIMENT (ABSORBED). INSPECTION REPORTS TO BE FILLED OUT ONCE PER WEEK NOTING ALL ACTIONS (IF ANY) REQUIRED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND REPAIR ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTENANCE OR REPLACEMENT OF ANY TEMPORARY EROSION CONTROL MEASURES.
5. TEMPORARY EROSION CONTROL MEASURES DEPICTED ON THIS DRAWING ARE MINIMUM REQUIREMENTS TO BE UTILIZED IN DEVELOPMENT OF THE SITE-SPECIFIC STORMWATER POLLUTION PREVENTION PLAN AND ARE NOT MEANT TO ADDRESS ALL OF THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT.
6. IT IS THE INTENT OF THE SPECIFICATIONS THAT THE WORK SHALL PROCEED IN A MANNER AND SEQUENCE TO ENSURE THAT ESTABLISHMENT OF PERMANENT EROSION CONTROL ITEMS ARE ACCOMPLISHED IMMEDIATELY AFTER FINISH GRADING.
7. EFFECTIVE USE OF TEMPORARY MEASURES, INCLUDING TEMPORARY SEEDING, SHALL BE MADE SO AS TO PREVENT OR MINIMIZE EROSION AND SILTATION UNTIL PERMANENT MEASURES ARE ESTABLISHED.
8. CONTRACTOR TO CONTACT MISSISSIPPI ONE CALL @ 811 AT LEAST 48 HOURS BEFORE IMPROVEMENTS ARE MADE.
9. CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND PERFORM ALL WORK FOR THE PROPER INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES TO CONTROL SILTATION.
10. SEE THE EROSION CONTROL DETAIL SHEET FOR MORE DETAIL ON THE INSTALLATION OF THE REQUIRED EROSION CONTROL MEASURES.
11. ONCE THE PERMANENT EROSION CONTROL MEASURES ARE IN PLACE A FINAL SITE INSPECTION IS TO BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE OWNER. ONCE SITE MEETS ALL PARTIES SPECIFICATIONS THE CONTRACTOR WITH BE RELIEVED OF THE RESPONSIBILITIES OF THIS CONTRACT.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EROSION CONTROL MEASURES SHOULD, TO THE EXTENT PRACTICABLE:

    A. DIVERT UP-SLOPE WATER AROUND DISTURBED AREAS OF THE SITE
    B. LIMIT THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST AMOUNT OF TIME POSSIBLE
    C. MINIMIZE THE AMOUNT OF SURFACE AREA THAT MUST BE DISTURBED
    D. IMPLEMENT BEST MANAGEMENT PRACTICES TO MITIGATE ADVERSE IMPACTS FROM STORM WATER RUNOFF
    E. REMOVE SEDIMENT THAT WOULD CONTRIBUTE TO OR CAUSE ADVERSE IMPACTS TO STATE WATERS FROM STORM WATER BEFORE IT LEAVES THE SITE

LEGEND

- PROPERTY LINE
- DRAINAGE SWALE REQ'D.
- SILT FENCE REQ'D.
- HAY BALES OR WATTLE REQ'D.
- GRATE INLET PROTECTION REQ'D. (WATTLES OR HAY BALES)

GREGORY ALLEN DONOVAN REGISTERED PROFESSIONAL ENGINEER Gregory A. Donovan 16339 4/27/15 STATE OF MISSISSIPPI

N W E S

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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E-mail: benchmark@benchmarkms.net

REVISIONS:

DATE: 02/27/15 | DRAWN: CBA
CHECKED: GAB | SCALE: 1"=20'
REF C/L:
EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

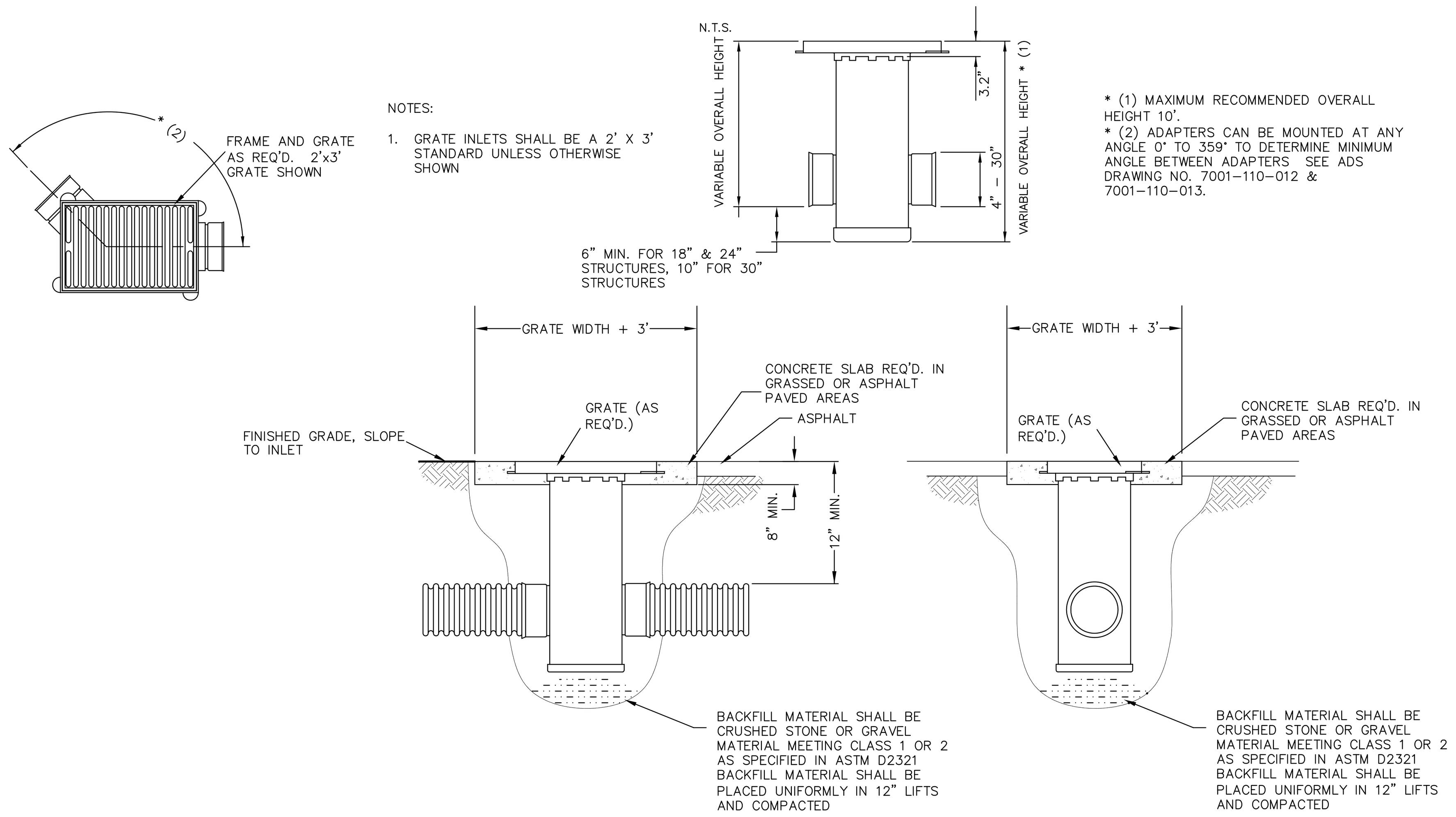
CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
EROSION CONTROL LAYOUT

SHEET NUMBER
C3.2

PROJECT NUMBER
B-3619

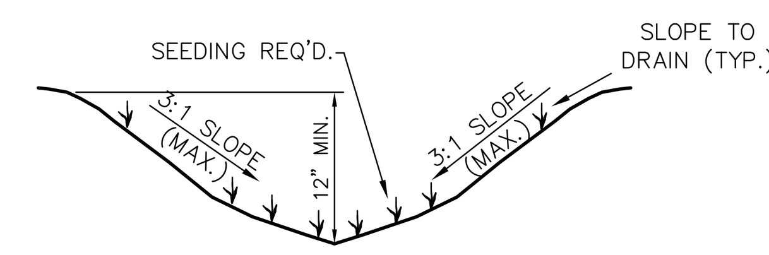


NOTES:

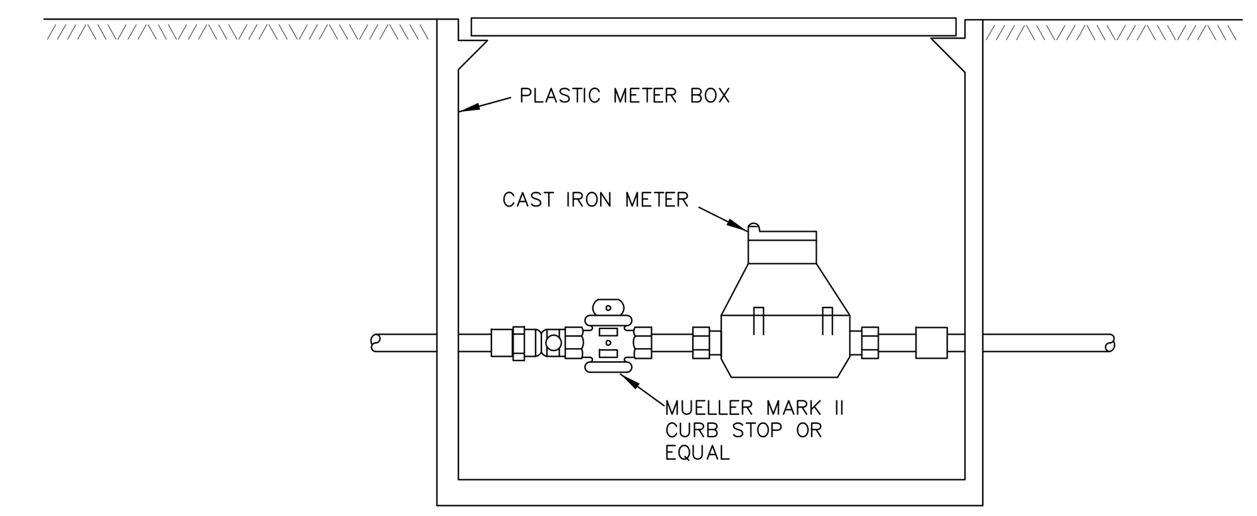
1. GRATE INLETS SHALL BE A 2' X 3' STANDARD UNLESS OTHERWISE SHOWN

* (1) MAXIMUM RECOMMENDED OVERALL HEIGHT 10'.
* (2) ADAPTERS CAN BE MOUNTED AT ANY ANGLE 0° TO 359° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE ADS DRAWING NO. 7001-110-012 & 7001-110-013.

ADS NYLOPLAST BASIN GRATE INLE TINSTALLATION DETAILS



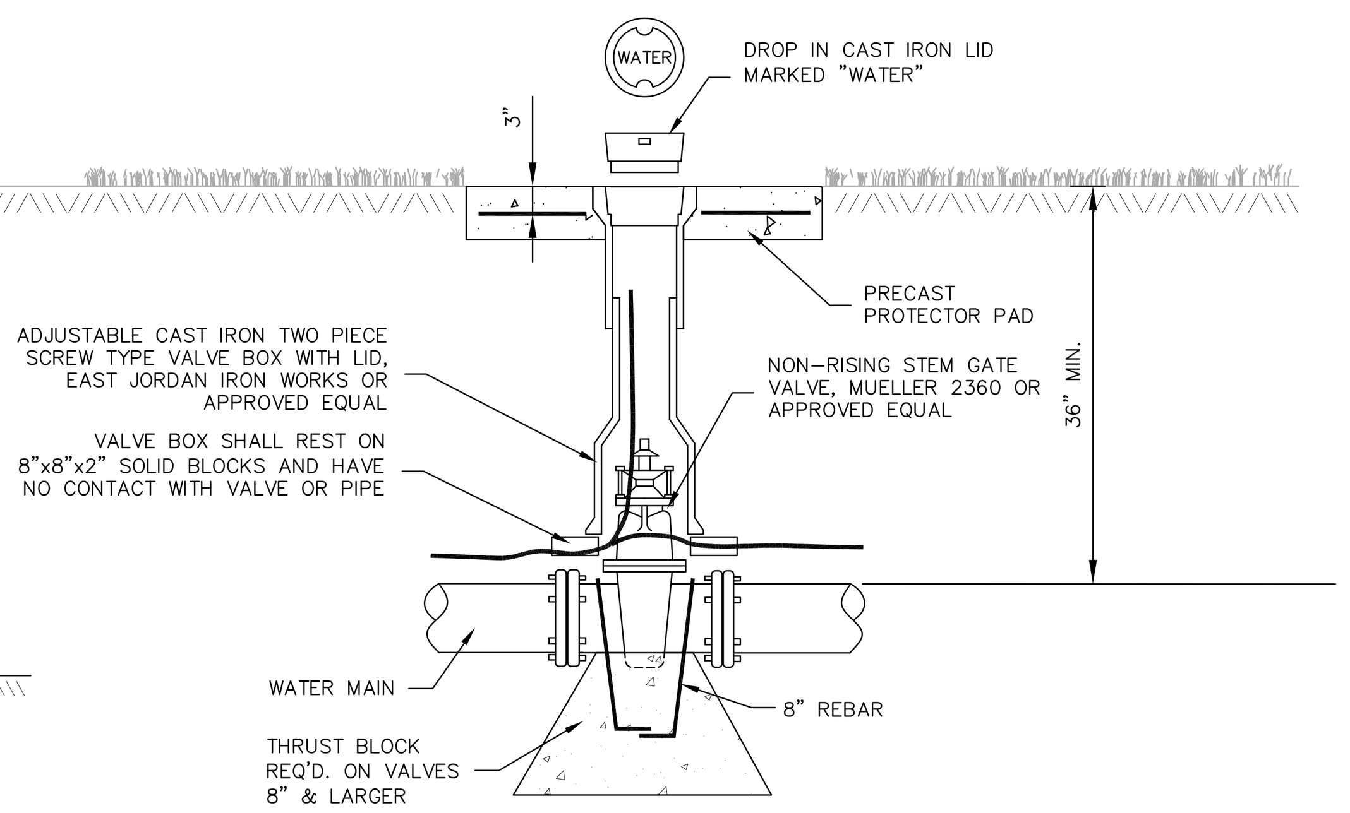
SWALE SECTION



NOTES:

1. METER ASSEMBLY AND BOX SHALL COMPLY w/ CITY OF SOUTHAVEN REQUIREMENTS.
2. CONTRACTOR SHALL SUBMIT METER AND METER BOX DETAILS FOR APPROVAL PRIOR TO ORDERING OR INSTALLING.

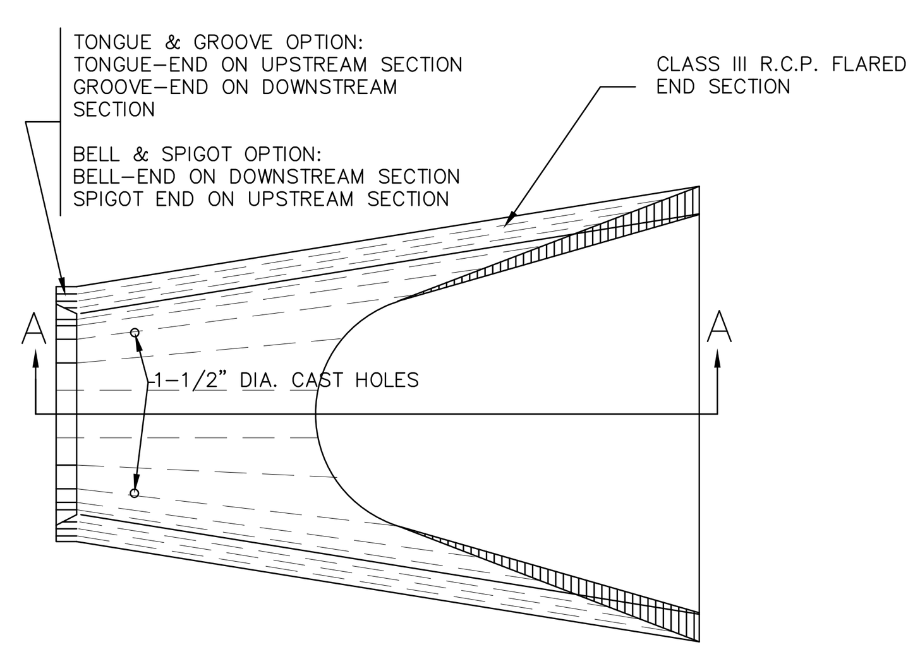
METER ASSEMBLY DETAIL



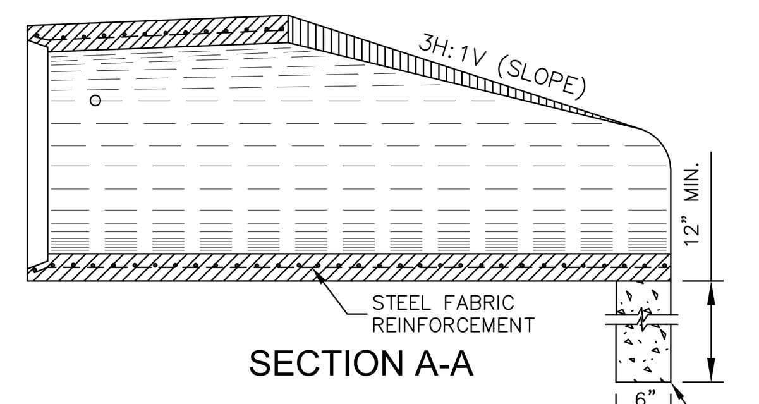
NOTES:

1. GATE VALVE SHALL MATCH SIZE OF LINE ON WHICH IT IS INSTALLED UNLESS OTHERWISE NOTED.
2. VALVE BOX SHALL BE SET PLUMB AND CENTERED ABOVE THE VALVE NUT.
3. BLOCKS FOR VALVE BOX SHALL BE PLACED ON TAMPED SOIL MEETING SPECIFICATIONS FOR BEDDING MATERIAL OR ON CRUSHED LIMESTONE.
4. ALL TRACER WIRE CONNECTORS SHALL BE 3M DBR AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONDUCTIVITY.
5. ALL BOLTS SHALL BE POLY WRAPPED TO REMAIN FREE OF CONCRETE AND SHALL BE FULLY ACCESSIBLE.
6. CONCRETE PROTECTOR PADS REQUIRED ON ALL VALVES INCLUDING HYDRANT VALVES (ABSORBED).

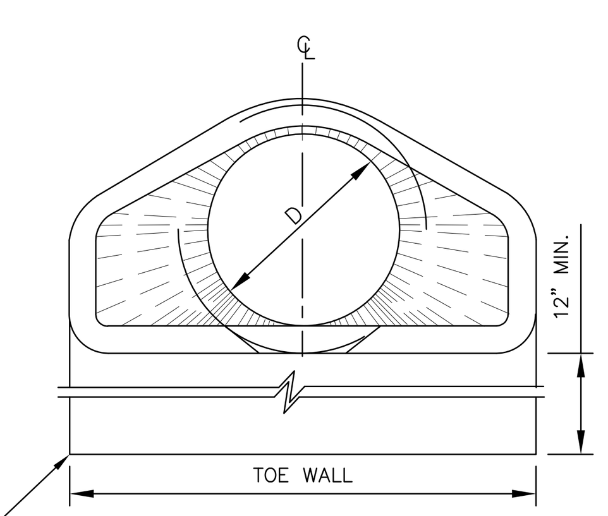
GATE VALVE ASSEMBLY



PLAN OF DOWNSTREAM END



SECTION A-A



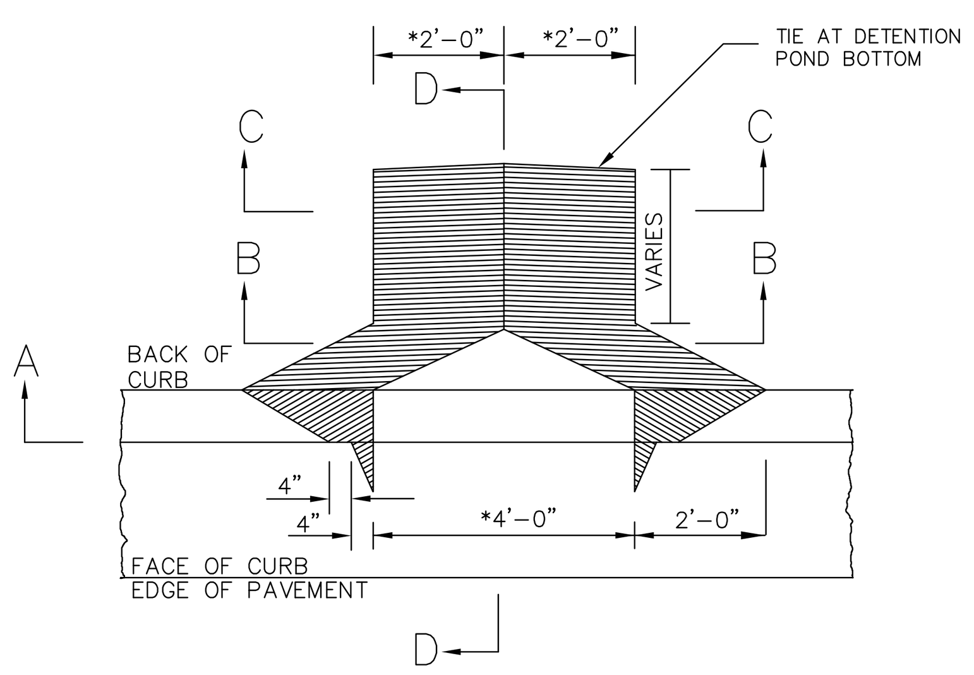
END ELEVATION

TOE WALL REQUIRED ON ALL FLARED END SECTIONS. SHALL BE ABSORBED IN FLARED END SECTION ITEM FOR EACH INDIVIDUAL PIPE SIZE.

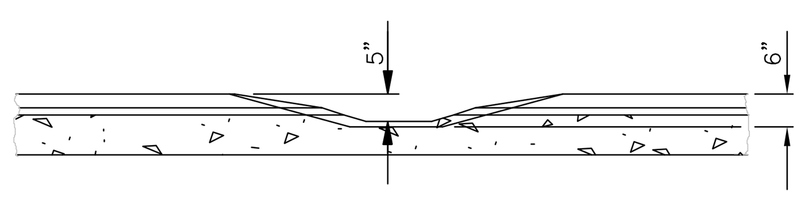
CONCRETE FLARED END SECTION NOTES:

1. ALL FLARED END SECTIONS SHALL BE PRECAST STRUCTURES MADE IN ACCORDANCE WITH THE REQUIREMENTS OF MDOT STANDARD DETAIL WORKING NUMBER FE-1, SHEET 328 FOR CLASS III CONCRETE ROUND PIPE AND WORKING NUMBER FE-1A, SHEET 329 FOR CLASS III CONCRETE ARCH PIPE.
2. ALL LIFT HOLES SHALL BE SEALED WITH NON-SHRINK GROUT PER MDOT SPECIFICATIONS FOR SEALING CONCRETE PIPE.
3. TOE WALL REQUIRED ON ALL FLARED END SECTIONS AND SHALL RUN FULL WIDTH OF FLARED END SECTION.

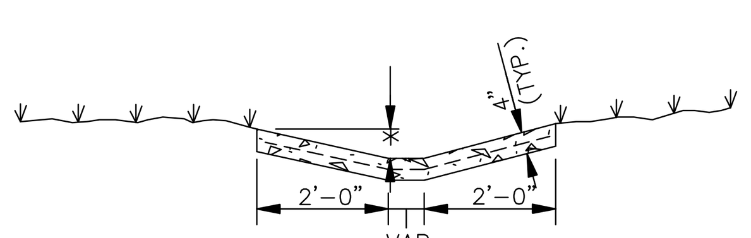
CONCRETE FLARED END SECTION



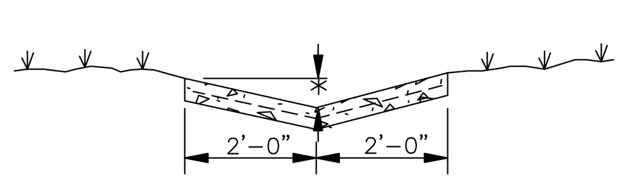
PLAN



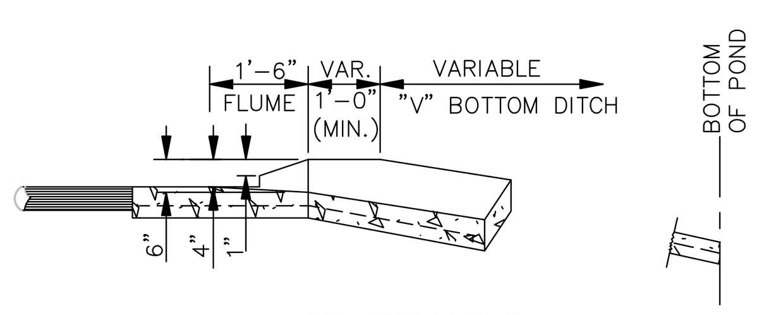
SECTION A-A



SECTION B-B
(TRANSITION SECTION)

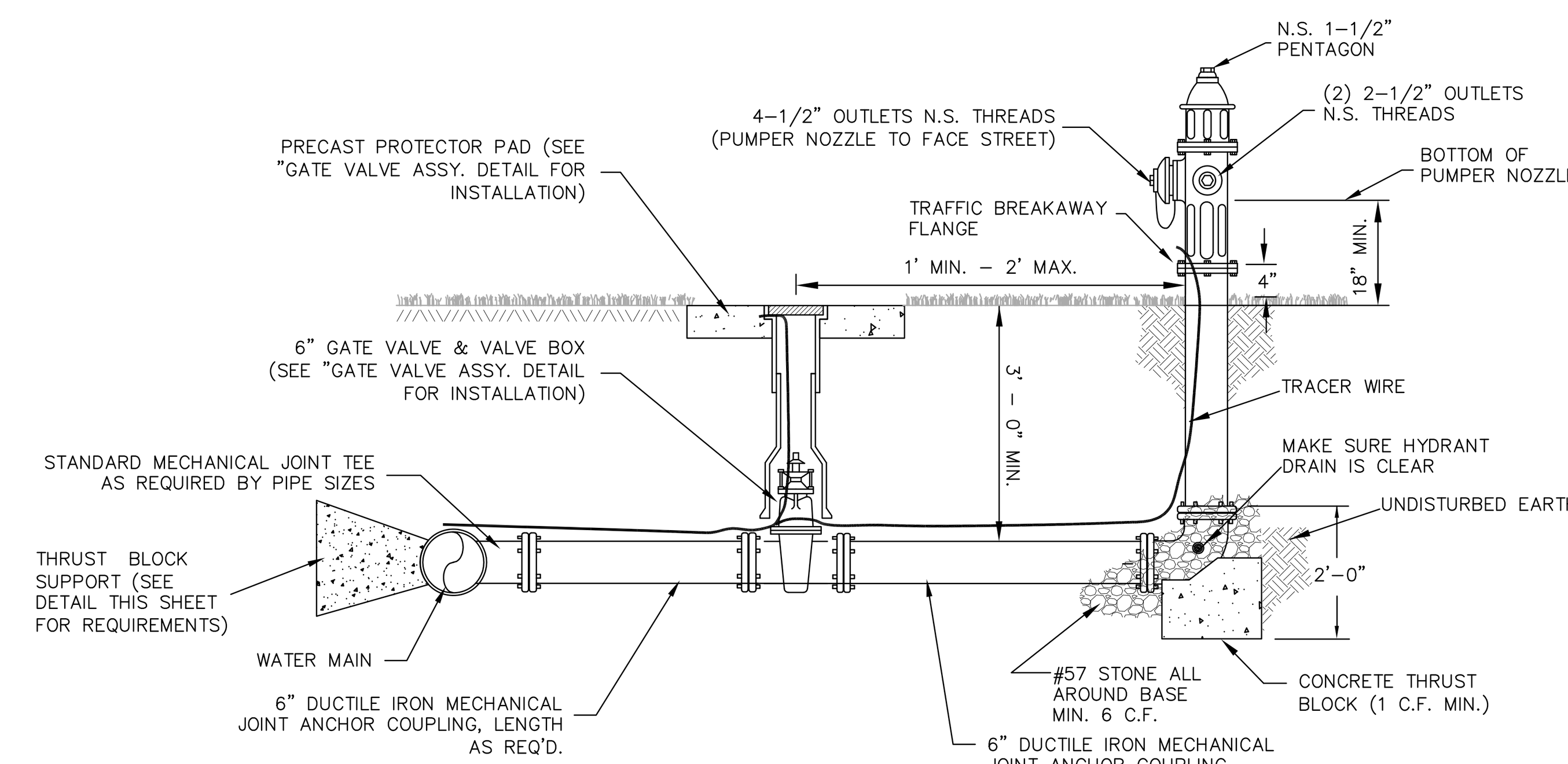


SECTION C-C
(DITCH SECTION)



SECTION D-D

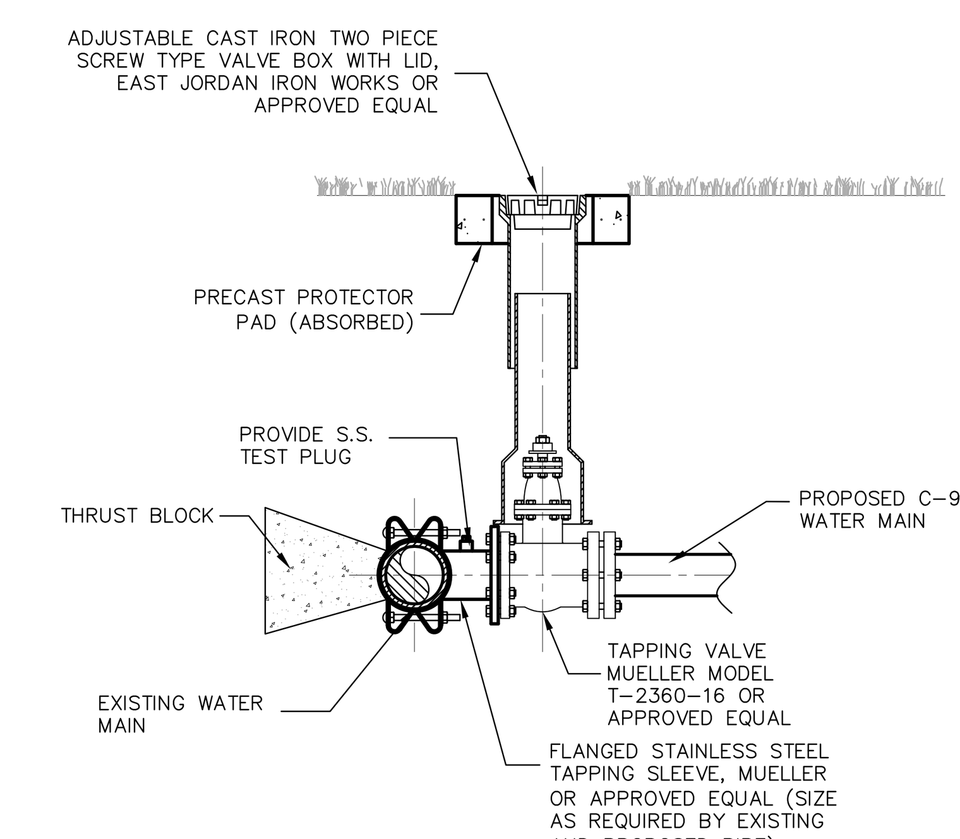
FLUME - TYPE "A"
(INTERMEDIATE RUNOFF THROUGH CURB & GUTTER)



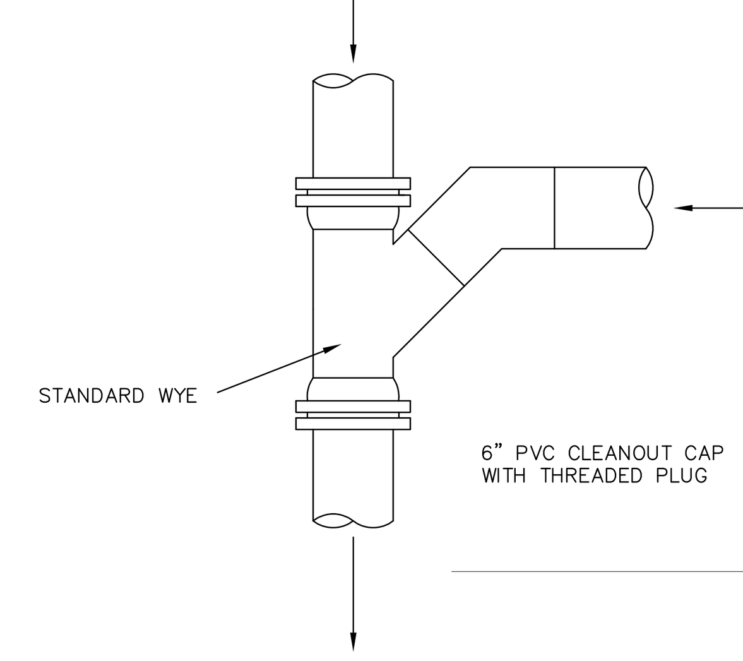
NOTES:

1. ALL FIRE HYDRANT ASSEMBLIES TO INCLUDE GATE VALVES.
2. CONTRACTOR TO USE MEGA-LUGS ON ALL RESTRAINED JOINTS.
3. FIRE HYDRANT TO MATCH EXISTING (IF ANY) OR BE MUELLER A-423, OR APPROVED EQUAL (MUST BE APPROVED BY CITY OF SOUTHAVEN).
4. SEE GATE VALVE ASSEMBLY DETAIL FOR MORE INFORMATION ON INSTALLATION.
5. ALL TRACER WIRE CONNECTORS SHALL BE 3M DBR AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONDUCTIVITY.

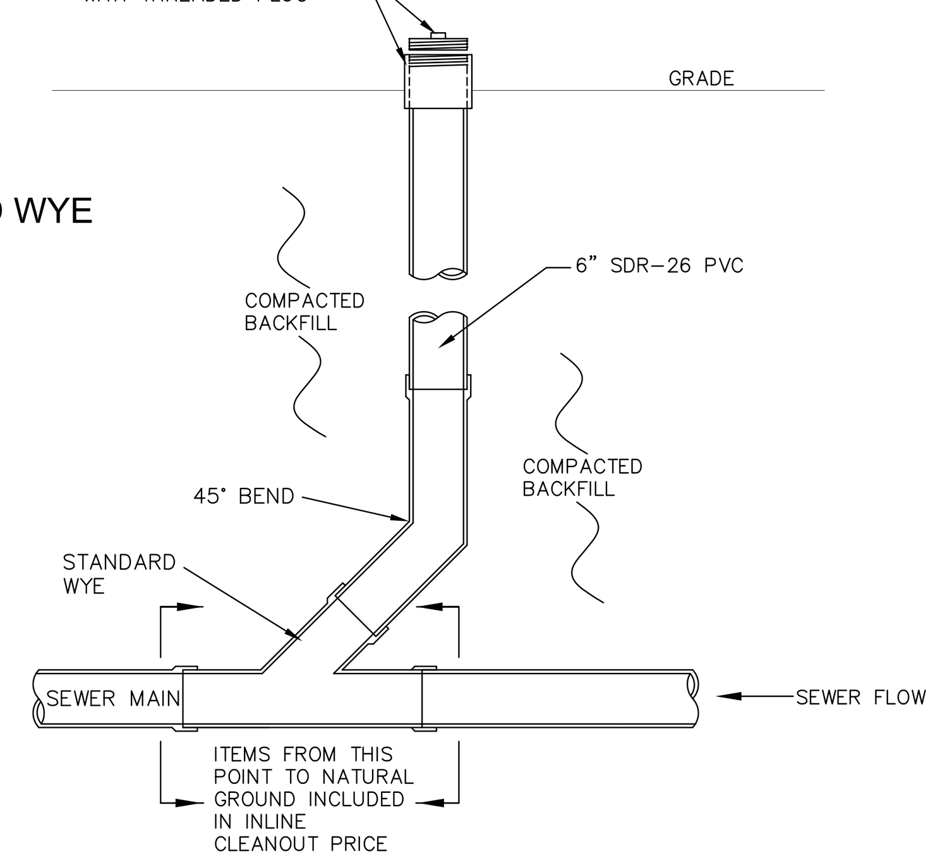
FIRE HYDRANT ASSEMBLY



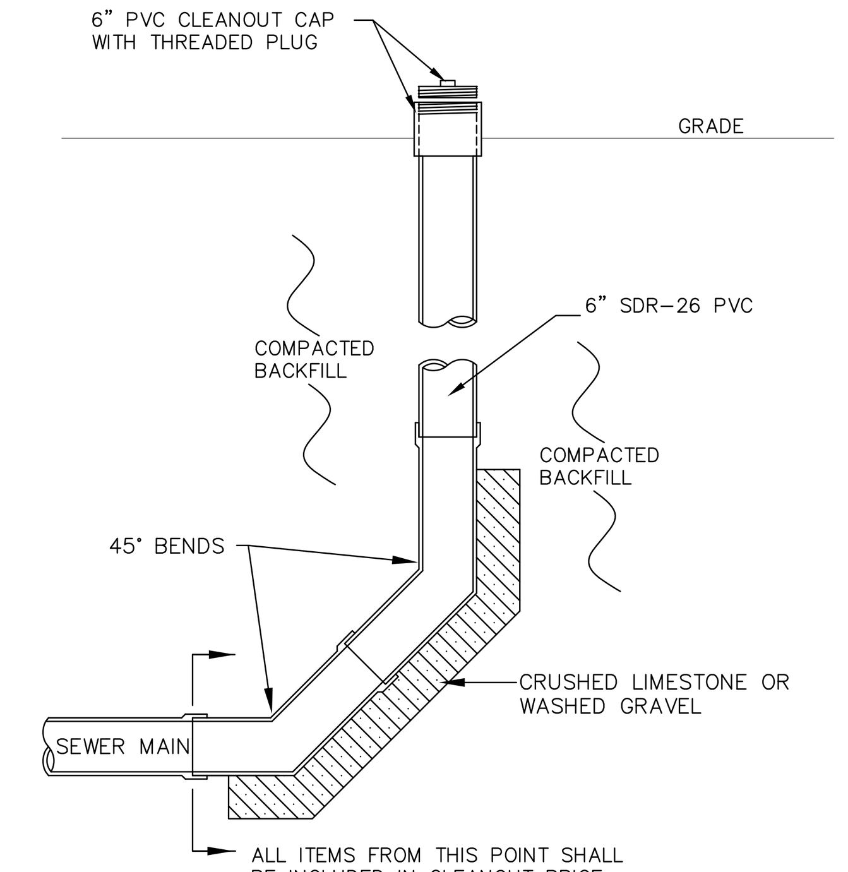
CONNECTION TO EXSTING WATER MAIN



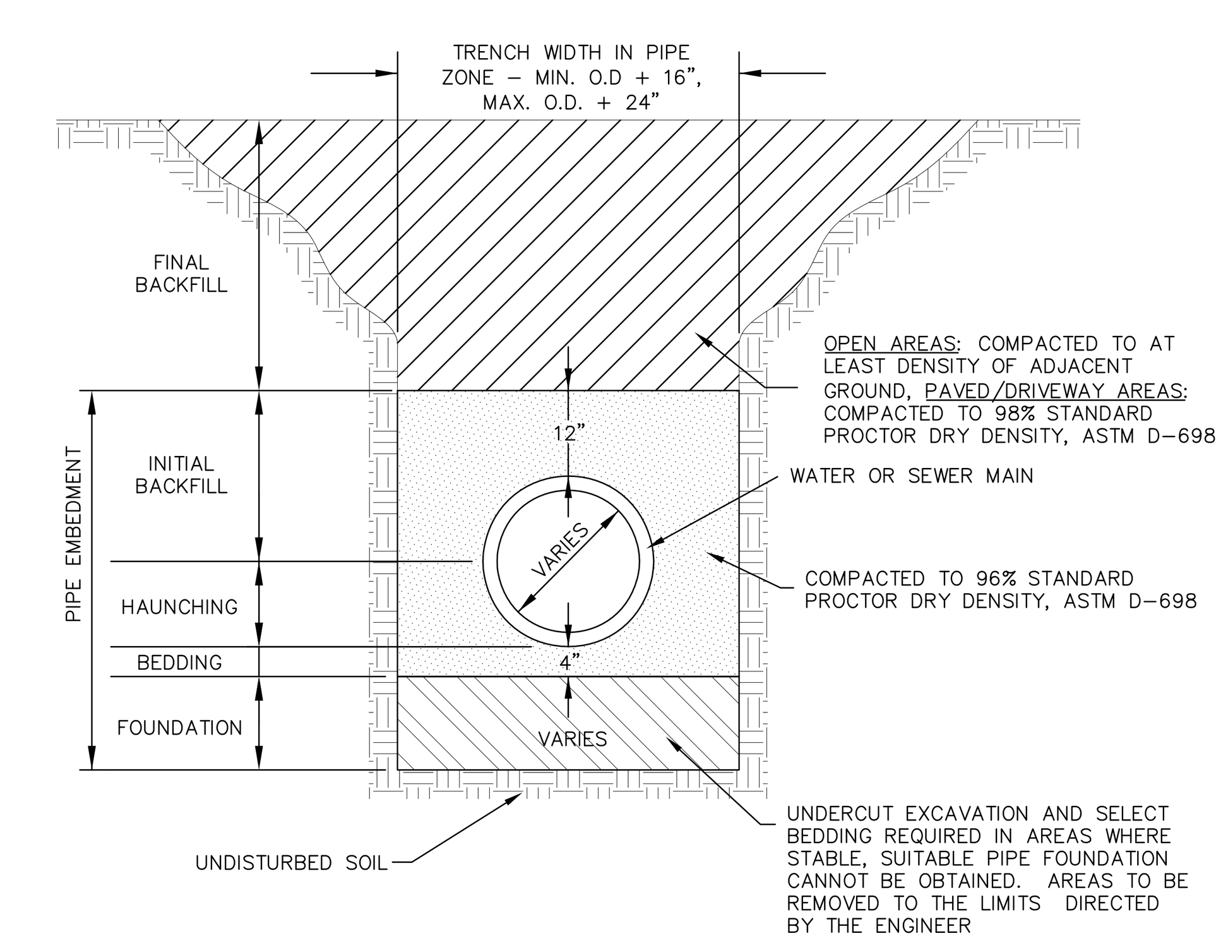
STANDARD WYE



INLINE CLEANOUT



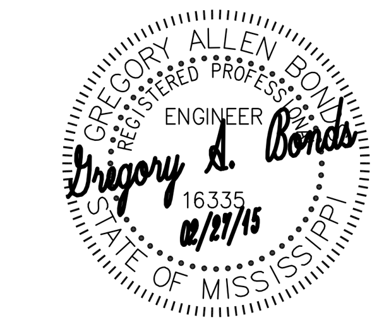
TERMINAL CLEANOUT



TYPICAL TRENCH NOTES:

1. PIPE EMBEDMENT MATERIALS SHALL COMPLY WITH REQUIREMENTS OF SPECIFICATIONS.
2. FINAL BACKFILL SHALL BE NATIVE MATERIAL IN OPEN AREAS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. FINAL BACKFILL SHALL BE SELECT MATERIAL IN ALL TRENCHES CONSTRUCTED UNDER ROADWAYS, CURBED OR PAVED AREAS. MATERIAL SHALL EXTEND 5' BEYOND THE EDGE OF PAVING STRUCTURE(S).
4. TRENCH SETTLEMENT REPAIR IS THE CONTRACTOR'S RESPONSIBILITY DURING WARRANTY PERIOD.
5. SELECT BEDDING MATERIAL FOR PIPE EMBEDMENT WHICH CONSISTS OF BEDDING, HAUNCHING AND INITIAL BACKFILL ZONES SHALL BE ABSORBED IN THE PER FOOT COST OF THE PIPE.
6. UNDERCUT EXCAVATION MAY BE REQUIRED IF MATERIAL AT PLANNED GRADE WILL NOT PROVIDE STABLE TRENCH BOTTOM FOR PIPE LAYING
7. FOUNDATION SELECT BEDDING AND UNDERCUT EXCAVATION WILL BE PLACED AS DIRECTED BY THE ENGINEER AND PAID FOR BY THE CUBIC YARD AS NOTED ON THE BID SCHEDULE.

TYPICAL TRENCH DETAIL FOR WATER AND SEWER LINES



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REVISIONS:

DATE: 02/27/15	DRAWN: CBA	CHECKED: GAB	SCALE:
REF C/L:			
EG SURFACE:			
FG SURFACE:			

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

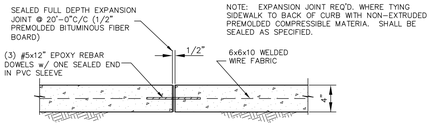
CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
WATER, SEWER & STORM DRAIN DETAILS

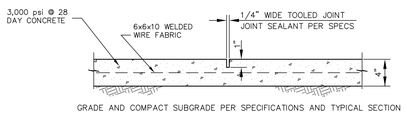
SHEET NUMBER
C4.0

PROJECT NUMBER
B-3619



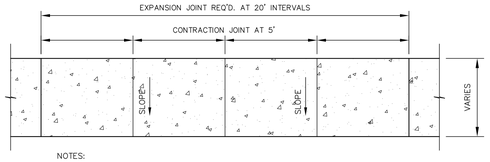
GRADE AND COMPACT SUBGRADE PER SPECIFICATIONS AND TYPICAL SECTION

SIDEWALK EXPANSION JOINT DETAIL



GRADE AND COMPACT SUBGRADE PER SPECIFICATIONS AND TYPICAL SECTION

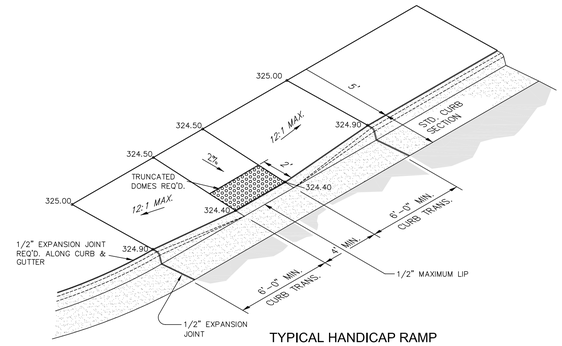
SIDEWALK CONTRACTION JOINT DETAIL



NOTES:

1. SIDEWALK TO BE SLOPED TO BACK OF CURB AT 2% UNLESS NOTED OTHERWISE
2. SIDEWALK SHALL BE BROOM FINISHED PERPENDICULAR TO ROADWAY CENTERLINE
3. ALL EXPANSION JOINTS SHALL BE SEALED WITH ELASTOMERIC SEALER WITHIN 1/4" OF THE FINISHED SURFACE PER ADA REQUIREMENTS.
4. EXPANSION JOINT WITH SEALER REQUIRED ANY WHERE SIDEWALK ABUTS ANOTHER CONCRETE OR SOLID SURFACE (I.E. INLET TOP, CURB, ASPHALT, SIGNAL POLE, ETC.)

SIDEWALK JOINT LAYOUT DETAIL

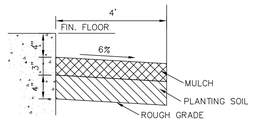


TYPICAL HANDICAP RAMP

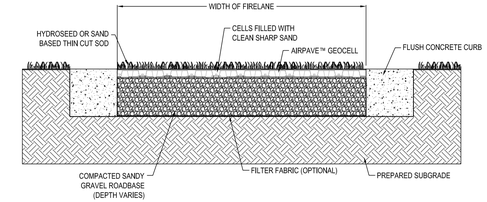
N.T.S.

RAMP NOTES:

1. LENGTH OF RAMPS WILL VARY DEPENDING ON THE CURB AND GUTTER OR THE SURROUNDING GRADES HOWEVER SLOPES SHALL NOT TO EXCEED 12:1.
2. WIDTH OF RAMPS SHALL BE 4' MINIMUM BUT IN GENERAL SHOULD MATCH THE WIDTH OF THE STRIPED HANDICAPPED WALKWAY.
3. ELEVATIONS SHOWN ARE ASSUMED UNLESS OTHERWISE NOTED. ELEVATIONS WILL VARY DEPENDING ON LENGTH OF RAMP AND THE SLOPE OF THE ADJACENT ROADWAY.
4. CROSS SLOPES OF SIDEWALK TO BE MIN. 2% TO PARKING LOT
5. CONCRETE FOR RAMPS SHALL BE AS SPECIFIED FOR SIDEWALK.

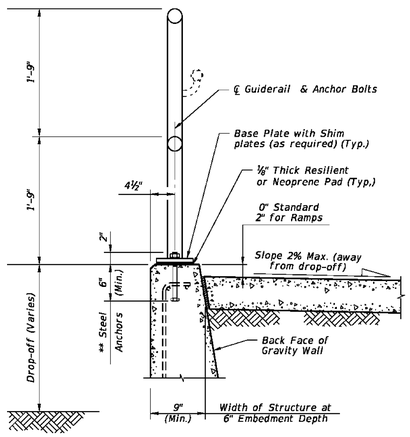


TYPICAL LANDSCAPING BED @ BLDG.

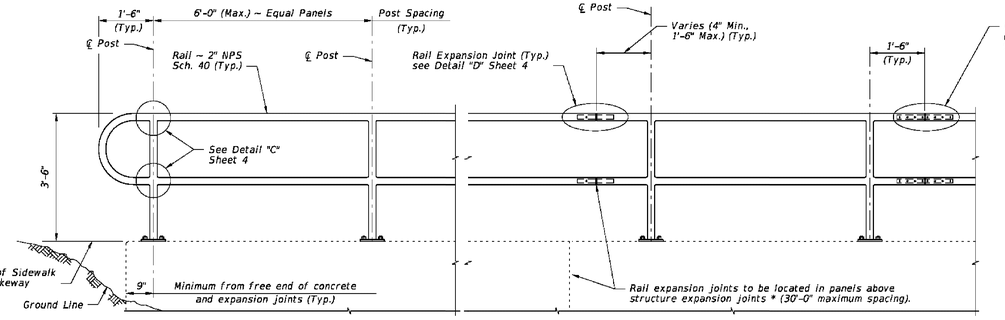


NOTE: INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

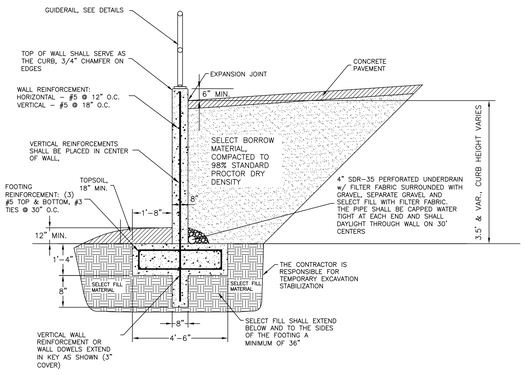
AIRPAVE GEOCELL GRASS PAVING DETAIL



TYPICAL SECTION ON GRAVITY WALL
(Other Retaining Walls Similar)

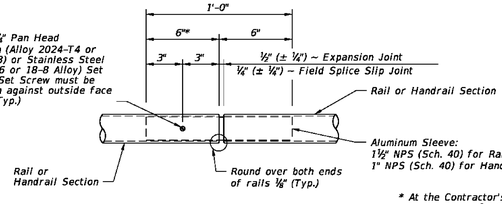


ELEVATION



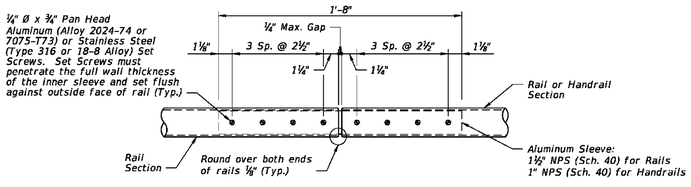
RETAINING WALL SECTION

TYPICAL RAILING DETAILS & RAILINGS ON GRADES 0% TO 5%

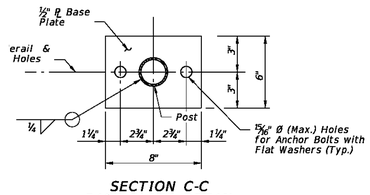


DETAIL "D" - EXPANSION JOINT
(FIELD SPLICE SLIP JOINT SIMILAR)

* At the Contractor's option, embedded length may be 4" when a ¾" Ø plug weld is substituted for the ¼" Ø set screw.



DETAIL "E" - CONTINUITY
FIELD SPLICE

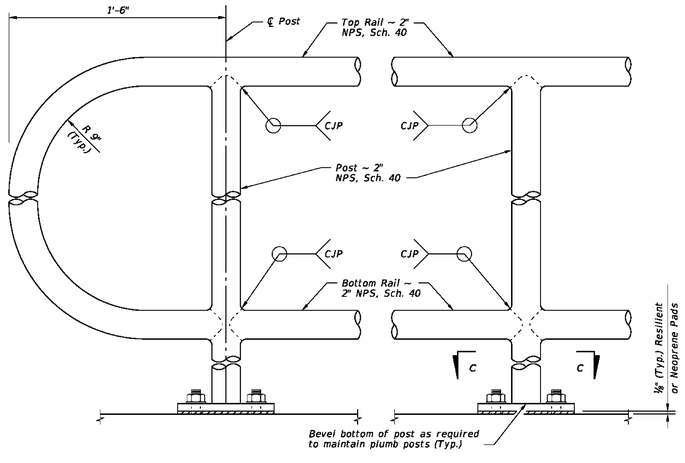


SECTION C-C
BASE PLATE DETAIL

NOTES:

1. ALL BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
2. COLOR OF RAILING TO BE COORDINATED WITH ARCHITECT.

GUARDRAIL DETAILS



DETAIL "C" - RAIL CONNECTIONS
(Handrail Not Shown)

BENCHMARK
Engineering & Surveying, LLC
101 Highpointe Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077 Fax: 601-591-0711
E-mail: benchmark@benchmarkms.net

REVISIONS:

DATE: 02/27/15 | DRAWN: CBA
CHECKED: GAB | SCALE:
REF C/L: | EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
SLEEPY HOLLOW DRIVE
CITY LIMITS OF SOUTHAVEN, MS 38671

CLIENT:
ROY PATEL
FLOWOOD, MS

PROJECT:
HOLIDAY INN EXPRESS

SHEET CONTENTS:
CONSTRUCTION DETAILS

GREGORY ALLEN BOND
REGISTERED PROFESSIONAL
ENGINEER
Gregory A. Bond
16336
02/27/15
STATE OF MISSISSIPPI

SHEET NUMBER
C4.1

PROJECT NUMBER
B-3619

GENERAL NOTES:

COORDINATION:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.

2. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR REVIEWING/COORDINATING ALL DIMENSIONS, ELEVATIONS AND DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OF THE CONTRACT DOCUMENTS AND LATEST ADDENDA AND FOR SUBMITTING SUCH DOCUMENTS TO SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD. THE GENERAL CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS AND OTHER CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN AND WITHIN EACH SET OF DRAWINGS WITH THE PROJECT ARCHITECT AND THE STRUCTURAL ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

4. DRAWINGS SHOW GENERAL AND TYPICAL SECTIONS/DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR SECTIONS/DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL OF THE ENGINEER.

5. THE STRUCTURAL MEMBERS OF THIS PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE GRAVITY AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED BRACING/SHORING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURE IS TIED TOGETHER AND COMPLETED.

6. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

7. LOADS APPLIED TO THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADS USED FOR THE DESIGN OF THE STRUCTURE ARE INDICATED IN THE GENERAL NOTES. DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY INSTALLED AND ALL TEMPORARY BRACING IS IN PLACE.

8. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

9. EQUIPMENT PADS SHALL BE PROVIDED BY THE MECHANICAL, ELECTRICAL, OR PLUMBING CONTRACTORS REQUIRING THE PAD.

10. COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES AND OPENINGS THROUGH CONCRETE WALLS, CONCRETE SLABS OR MASONRY WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

11. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONTRACTOR SHALL REVIEW, APPROVE AND SIGN EACH SHEET PRIOR TO SUBMISSION. THE STRUCTURAL ENGINEER'S REVIEW SHALL BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS. SUBMIT PDF FILES FOR REVIEW.

12. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.

13. WHERE CONFLICTS OCCUR BETWEEN GENERAL NOTES, STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MOST STRINGENT REQUIREMENT SHALL APPLY.

14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.

FOUNDATIONS:

1. FOUNDATION DESIGN OF FOOTINGS BASED ON SOIL REPORT BY GEOTECHNICAL ASSOCIATES NETWORK, LLC, DATED NOVEMBER 2012. ALLOWABLE SOIL BEARING PRESSURE 7,000 PSF USING AGGREGATE PIERS.

2. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST BASEMENT WALLS UNLESS WALLS ARE BRACED BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.

3. FOUNDATION WALLS WITH BACKFILL ON EACH SIDE SHALL BE BACKFILLED EVENLY ON EACH SIDE. THESE WALLS HAVE NOT BEEN DESIGNED FOR UNBALANCED SOIL LOADS. ALL BASEMENT WALLS (FOUNDATION WALLS WITH DOWELS INTO SLAB ON GRADE) SHALL BE SHORED UNTIL SLAB ON GRADE REACHES 75 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH. WATERPROOF BACKSIDE OF ALL FOUNDATION WALLS UNLESS NOTED OTHERWISE.

4. COORDINATE FOUNDATION WORK WITH EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. NOTIFY PROJECT ARCHITECT AND STRUCTURAL ENGINEER TO PROVIDE REINFORCED CONCRETE PIER FOR COLUMN FOOTINGS

5. UNLESS NOTED OTHERWISE COLUMN CENTERLINES SHALL BE CENTERLINES OF COLUMN FOOTINGS.

6. HEAVY GRADING EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE HEIGHT OF THE WALL (HORIZONTALLY) OF BASEMENT OR CANTILEVER RETAINING WALLS.

SLAB ON GRADE:

1. CONTROL JOINTS FOR SLAB ON GRADE SHALL BE LOCATED AS SHOWN ON PLAN, WITH A MAXIMUM JOINT SPACING OF 2 1/2 TIMES THE SLAB THICKNESS IN FEET. JOINTS SHALL BE FORMED USING SAW CUTS 1/8" WIDE (MAXIMUM) BY T/4 (1 1/4" MIN.) DEEP. SAW CUT AS SOON AS PRACTICAL AND WITHIN 12 HOURS AFTER PLACING CONCRETE. JOINTS SHALL BE FILLED WITH SEMI-RIGID EPOXY JOINT FILLER (CONSPEC POLUREA JOINTFILL (OR EQUIVALENT).

2. SIDEWALKS AND OTHER EXTERIOR SLABS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL, SITE AND CIVIL DRAWINGS FOR LOCATIONS, DIMENSIONS AND ELEVATIONS.

3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DEPRESSED SLAB AREAS AND DRAINS. FLOOR SLABS SHALL SLOPE TO ALL FLOOR DRAINS. GENERAL CONTRACTOR SHALL COORDINATE WITH PLUMBING DRAWINGS - TYPICAL.

4. USE EVAPORATION RETARDER ONE OR MORE TIMES AFTER THE STRIKEOFF WHEN HIGH TEMPERATURES, LOW HUMIDITY AND/OR WIND WILL CAUSE CRUSTING AND PLASTIC CRACKING.

5. EXPOSED FLOOR SLAB AREAS ARE TO RECEIVE 2 - COATS OF 25% MIN. SOLIDS ACRYLIC HARDENER AND SEAL (SPEC CHEM'S CURE AND SEAL WB 25 OR SPEC CHEM'S CURE AND SEAL 25UV, OR EQUIVALENT). APPLICATION IS TO CONFORM TO MANUFACTURER'S SPECIFICATIONS. FIRST COAT IS FOR CURING, SECOND COAT IS FOR SEALING AND DUST PROOFING AFTER BUILDING CONSTRUCTION COMPLETION. FIRST COAT ONLY REQUIRED WHERE SLAB IS RECEIVING FLOOR COVERING.

6. SEE GEOTECHNICAL REPORT/GEOTECHNICAL ENGINEER FOR VAPOR RETARDER AND UNDERSLAB DRAINAGE FILL REQUIREMENTS. VAPOR RETARDER SHALL BE 10 MIL AND MEET ASTM E 1745 CLASS A INSTALLED PER ASTM E 1643 WITH LAPPED JOINTS NOT LESS THAN 6 INCHES.

CONCRETE:

1. CONCRETE SHALL BE PROPORTIONED TO MEET THE REQUIREMENTS OF THE FOLLOWING:

ELEMENT	28-DAY STRENGTH (PSI)	SLUMP RANGE (IN.)	UNIT WEIGHT (PCF)
COLUMN FOOTINGS	3000	3-5	150
WALL FOOTINGS	3000	3-5	150
STRUCTURAL SLAB ON GRADE	4000	3-4	150
RETAINING WALLS	3000	3-5	150
GRADE BEAMS	3000	3-5	150

2. PORTLAND CEMENT SHALL BE ASTM C 150, TYPE I. FLY ASH SHALL CONFORM TO ASTM C 618, CLASS F AND SHALL NOT EXCEED 25% OF CEMENT CONTENT BY WEIGHT. SLAG SHALL CONFORM TO ASTM C 989.

3. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 33. CONCRETE AGGREGATE GRADATION SHALL BE IN ACCORDANCE WITH ASTM C33 SPECIFICATION. "SPECIFICATION FOR CONCRETE AGGREGATE". FINE AGGREGATE SHALL CONSIST OF NATURAL SAND OR A COMBINATION THEREOF, WITH A FINENESS MODULUS BETWEEN 2.3 AND 3.1. LARGER COURSE AGGREGATE MIXES UP TO #67 ARE ACCEPTABLE FOR FLOOR SLAB CONCRETE TO MINIMIZE SHRINKAGE CRACKING.

4. FLY ASH AND/OR SLAG SHALL NOT BE PERMITTED IN CONCRETE PLACED SUBJECT TO COLD WEATHER PLACEMENT PROCEDURES.

5. CONCRETE EXCEEDING THE SPECIFIED SLUMP RANGES SHALL BE RETURNED. DO NOT ADD WATER TO THE CONCRETE MIX AT THE JOB SITE WITHOUT THE WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

6. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. ALL WELDED WIRE FABRIC (W.W.F.) SHALL BE ASTM A82 AND A185 COLD DRAWN STEEL WIRE. W.W.F. SHALL BE DELIVERED TO THE JOB SITE IN FLAT SHEETS (NO ROLLS). PLACE SHEETS ON BOLSTERS AT 36" MAXIMUM TO LOCATE IN UPPER THIRD OF SLAB. LAP CONTINUOUS REINFORCING BARS 36 BAR DIAMETERS UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS IN ALL WALLS AND FOOTINGS. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION, AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE ACI CODE AND DETAILING MANUAL AND CRSI'S "MANUAL OF STANDARD PRACTICE".

7. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.................3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
 No. 6 THROUGH No. 18 BARS..2"
 No. 5 AND SMALLER..1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS AND JOISTS:
 No. 14 AND No. 18 BARS...1 1/2"
 No. 11 AND SMALLER...3/4"
BEAMS AND COLUMNS:
 PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS......................1 1/2"

8. ANCHOR RODS FOR COLUMNS SHALL BE POSITIONED WITH A TEMPLATE PRIOR TO PLACING CONCRETE IN PIER OR FOOTING. NUTS SHALL BE TIGHTENED ON EACH SIDE OF THE TEMPLATE TO HOLD THE ANCHOR BOLTS IN PLACE.

9. CONCRETE DESIGN AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (CODE REFERENCED ACI 318) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315-92). CONCRETE PLACED DURING HOT WEATHER AND COLD WEATHER SHALL MEET THE RECOMMENDATIONS OF ACI/PCA/TCA. CONCRETE SHALL BE SAMPLED AND TESTED BY AN INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH ACI 318.

10. CONCRETE MIXES SHALL BE DESIGNED IN ACCORDANCE WITH ACI 301. WATER SHALL NOT BE ADDED TO THE CONCRETE MIX AT THE JOB SITE WITHOUT THE PRIOR WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.

11. UNLESS OTHERWISE SHOWN ON ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFER AT ALL COLUMN, WALL SLAB AND BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINAL STRUCTURE.

12. PROVIDE VERTICAL CONTROL OR CONTRACTION JOINTS AT 25' MAXIMUM IN ALL CONCRETE BASEMENT WALLS, RETAINING WALLS, OR SCREENWALLS. PROVIDE VERTICAL EXPANSION JOINTS AT 100' MAXIMUM IN THE LINEAR PLANE OF THE WALL. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS IN AESTHETIC WALLS.

13. FIBER REINFORCEMENT - POLYPROPYLENE FIBRILLATED FIBERS USE AT 1.5 POUNDS PER CUBIC YARD WITH A MINIMUM AVERAGE RESIDUAL STRENGTH OF 45 PSI IN ACCORDANCE WITH ASTM 1399 TESTING - FIBERMESH 300 OR EQUIVALENT.

14. SLAB ON GRADE SHALL HAVE AN OVERALL FLOOR FLATNESS (FF) OF 25 WITH A MINIMUM LOCAL VALUE OF 17 AND AN OVERALL FLOOR LEVELNESS (FL) OF 20 WITH A MINIMUM LOCAL VALUE OF 15. ELEVATED SLABS SHALL HAVE AN OVERALL FLOOR FLATNESS (FF) OF 25 WITH A MINIMUM LOCAL VALUE OF 17.

MASONRY:

1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATION FOR MASONRY STRUCTURES (CODE REFERENCED ACI 530.1)" AND NCMA SPECIFICATION TEK NOTES AND BIA TECHNICAL NOTES ON BRICK CONSTRUCTION. CONTINUOUS INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, LIGHTWEIGHT. MINIMUM NET COMPRESSIVE STRENGTH (f'm) SHALL BE 2,000 PSI. FILL BLOCK CELLS WHERE REBAR OCCURS SOLID WITH GROUT. SUBMIT VERIFICATION OF ALL MATERIALS TO ARCHITECT FOR APPROVAL.

3. ALL BRICK UNIT MASONRY SHALL CONFORM TO ASTM C-216, GRADE SW, TYPE FBS. MINIMUM NET COMPRESSIVE STRENGTH (f'm) SHALL BE 3,000 PSI. VERIFICATION OF ALL MATERIALS TO ARCHITECT FOR APPROVAL.

4. MORTAR SHALL BE PORTLAND CEMENT-LIME MIX (PORTLAND CEMENT SHALL COMPLY WITH ASTM C 150, TYPE I OR III, AND HYDRATED LIME COMPLYING WITH ASTM C 270) OR MORTAR CEMENT ASTM C 1329 - TYPE S, THE USE OF MASONRY-CEMENT IS STRICTLY FORBIDDEN. AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C 144.

5. GROUT FOR UNIT MASONRY SHALL COMPLY WITH ASTM C 476 (SLUMP 8 TO 11 INCHES). AGGREGATE FOR GROUT SHALL COMPLY WITH ASTM C404. COMPRESSIVE STRENGTH SHALL BE GREATER THAN OR EQUAL TO 2,000 PSI OR f'm, WHICHEVER IS GREATER. TESTING SHALL BE DONE IN AN ABSORBENT MOLD IN ACCORDANCE WITH ASTM C 1019.

6. MASONRY JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A-951 AND SHALL BE HOT DIPPED GALVANIZED, CARBON STEEL. BRICK TIES SHALL CONFORM TO SEISMIC DESIGN CATEGORY REQUIREMENTS (SUBMIT FOR APPROVAL). BRICK TIES USED IN SEISMIC DESIGN CATEGORY D SHALL BE PLACED AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. PROVIDE IN LENGTHS NOT LESS THAN 10 FEET IN LENGTH WITH PREFABRICATED CORNER AND TEE UNITS. FOR MULTIWYTHE MASONRY PROVIDE ADJUSTABLE 2-PIECE UNITS. PROVIDE CONTINUITY AT CORNERS AND WALL INTERSECTIONS BY USING PREFABRICATED "L" AND "T" SECTIONS. LAP REINFORCEMENT A MINIMUM OF 6". SPACE REINFORCEMENT NOT MORE THAN 16" O.C. PROVIDE REINFORCEMENT NOT MORE THAN 8" ABOVE OR BELOW WALL OPENINGS AND EXTENDING 24" BEYOND OPENINGS. CUT REINFORCEMENT AT CONTROL AND EXPANSION JOINTS UNLESS NOTED OTHERWISE.

7. ALL BOND BEAM REINFORCING AT FLOOR AND ROOF DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY CONTROL JOINTS - UNLESS NOTED OTHERWISE.

8. PROVIDE VERTICAL CONTROL JOINTS AT 1.5 TIMES WALL HEIGHT OR 25' MAXIMUM (WHICHEVER IS LEAST). SEE ARCHITECTURAL DRAWINGS.

9. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION.

10. THE MINIMUM QUALITY ASSURANCE PROGRAM FOR NON-ESSENTIAL FACILITIES SHALL COMPLY WITH TABLE 1.14.2 OF ACI 530.

11. SEE MASONRY DETAILS ON SHEET S302.

STRUCTURAL STEEL:

1. ALL W-SHAPE STRUCTURAL STEEL SHALL BE ASTM A992, ALL OTHER STRUCTURAL SHAPES SHALL BE ASTM A-36, SQUARE OR RECTANGULAR HSS SHAPES SHALL CONFORM TO ASTM A-500, GRADE B, ROUND HSS SHAPES SHALL CONFORM TO ASTM A-500, GRADE B, STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A-501 OR ASTM A-53, TYPE E OR S, GRADE B. DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC CODE AND DETAILING MANUAL. NO STRUCTURAL MEMBERS SHALL BE SPLICED EXCEPT AS SHOWN ON APPROVED SHOP DRAWINGS.

2. FABRICATOR IS SOLELY RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. REVIEW OF STRUCTURAL STEEL CONNECTIONS BY WGPM, INC. IS FOR GENERAL DESIGN INTENT ONLY. FOR THE PURPOSE OF CONNECTION DESIGN, THE FABRICATOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. THE ENGINEER SHALL SEAL, SIGN AND SUBMIT DESIGN CALCULATIONS FOR ALL NON-STANDARD AND LATERAL RESISTING CONNECTION DESIGNS. A NOTE SHOULD ACCOMPANY THE SEAL STATING THAT THE SEAL IS FOR "CONNECTION DESIGN ONLY" AND DOES NOT INCLUDE RESPONSIBILITY FOR MEMBER OR BUILDING DESIGN, DIMENSIONS, FITUP, ERECTION AND ETC. GENERALLY CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW THE RELATIONSHIP OF THE MEMBERS. CONNECTIONS SHALL BE DESIGNED FOR REACTIONS SHOWN ON CONTRACT STRUCTURAL DRAWINGS, IF REACTIONS ARE NOT SHOWN ON CONTRACT STRUCTURAL DRAWINGS, DESIGN FOR ONE HALF (1/2) THE ALLOWABLE LOAD ON THE MEMBER, USING THE AISC "ALLOWABLE UNIFORM LOAD TABLES" WITH GIVEN BEAM SPAN, OR A MINIMUM OF 10 KIPS, WHICHEVER IS GREATEST. MEMBER FORCES AND REACTIONS HAVE BEEN REDUCED IN CONFORMANCE TO CODE PROVISIONS RELATED TO COMBINATIONS OF LOADINGS THAT INCLUDE WIND AND SEISMIC FORCES. NO FURTHER REDUCTIONS IN FORCES OR INCREASED IN ALLOWABLE STRESSES IS PERMITTED. CONNECTIONS MAY BE BOLTED OR WELDED UNLESS NOTED OTHERWISE.

3. FABRICATOR SHALL BE CATEGORY I CERTIFIED (CONVENTION STEEL STRUCTURES), OR A COMPANY SPECIALIZING IN PROJECTS OF THIS NATURE WITH A MINIMUM OF 5 YEARS OF EXPERIENCE.

4. ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND SHALL CONFORM TO AWS STANDARDS (LATEST EDITION). FIELD FILLET WELDS GREATER THAN 1/4" THICKNESS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY.

5. WHERE CAMBER IS NOT PRESENT ERECT MILL CAMBER UP.

6. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURAL DRAWINGS.

7. GALVANIZE OR PAINT ALL EXTERIOR EXPOSED STRUCTURAL STEEL, SEE ARCHITECTURAL DRAWINGS.

I JOISTS:

1. A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT SHALL DESIGN ALL I JOISTS. DESIGN FOR ALL CODE REQUIRED LIVE, SNOW AND WIND LOADS. DESIGNS SHALL BE SEALED AND SIGNED BY HIM/HER AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF I JOISTS AND STRUCTURAL FRAMING INCLUDING ARRANGEMENT, DIMENSIONS, MATERIALS, GRADES, STRESS VALUES, CONNECTORS, ANCHORAGE, AND RELATION TO ADJACENT WORK TO ARCHITECT FOR APPROVAL. GENERAL CONTRACTOR SHALL PROVIDE I JOIST SUPPLIER WITH SPRINKLER LAYOUT PLAN WITH HANGER LOCATIONS AND WEIGHTS. GENERAL CONTRACTOR SHALL PROVIDE I JOIST SUPPLIER WITH ALL OTHER HVAC/ELECTRICAL HANGING LOADS.

FLOOR I JOISTS:

DEAD LOAD	22.0 PSF
LIVE LOAD	40.0 PSF

2. I JOIST SUPPLIER SHALL PROVIDE ALL CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS. WEB STIFFENERS AND BLOCKING PANELS SHALL BE PROVIDED AS REQUIRED FOR DESIGN LOADS AND SPANS. JOIST SUPPLIER SHALL PROVIDE ALL BRIDGING/BRACING AS REQUIRED.

3. I JOIST MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED OR ALTERED IN ANY OTHER MANNER WITHOUT THE WRITTEN APPROVAL OF THE I JOIST DESIGNER/SUPPLIER.

4. I JOISTS SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR THE SAFE ERECTION AND PERFORMANCE OF THE I JOISTS.

5. PROVIDE DOUBLE I JOISTS UNDER ALL PARTITION WALLS RUNNING PARALLEL TO JOISTS UNLESS DESIGN SHOWS SINGLE I JOIST CAN SUPPORT PARTITION DEAD LOAD.

7. LOAD BEARING PARTITIONS, JACKS, BEAMS AND COLUMN SUPPORTS MUST BE SOLID BLOCKED THROUGH FLOOR. I-JOISTS AND PLYWOOD CANNOT SUPPORT CONCENTRATED POINT LOADS. I-JOIST MATERIAL SHOULD NOT BE USED AS BLOCKING UNDER CONCENTRATED POINT LOADS. ALL POINT LOADS MUST BE CARRIED TO FOUNDATIONS WITH ADEQUATE BLOCKING AND/OR BEAMS.

7. GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF I JOISTS WITH OTHER TRADES - SHIFT I JOISTS A MAXIMUM OF 3 1/2" AS REQUIRED.

8. I JOIST SIZE AND SPACING SHOWN ON STRUCTURAL DRAWINGS IS FOR PRELIMINARY PRICING PURPOSES ONLY. THE OWNER, ARCHITECT AND STRUCTURAL ENGINEER WILL NOT ACCEPT ANY ADDITIONAL CHARGES FOR FINAL I JOIST DESIGN.

TIMBER/WOOD/PLYWOOD/OSB:

1. A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT SHALL DESIGN WOOD TRUSSES. DESIGN FOR ALL CODE REQUIRED LIVE, SNOW AND WIND LOADS. DESIGNS SHALL BE SEALED AND SIGNED BY HIM/HER AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. FABRICATION SHALL BE BY A MEMBER OF THE TRUSS PLATE INSTITUTE, INC. SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF TRUSSES AND STRUCTURAL FRAMING INCLUDING ARRANGEMENT, DIMENSIONS, MATERIALS, GRADES, STRESS VALUES, CONNECTORS, ANCHORAGE, AND RELATION TO ADJACENT WORK TO ARCHITECT FOR APPROVAL. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS:

HIGH SLOPED ROOF TRUSSES:

TOP CHORD DEAD LOAD	8.0 PSF
BOTTOM CHORD DEAD LOAD	12.0 PSF
TOP CHORD LIVE LOAD	20.0 PSF
BOTTOM CHORD LIVE LOAD (WHERE CODE REQUIRED)	10.0 PSF

GENERAL CONTRACTOR SHALL PROVIDE TRUSS SUPPLIER WITH SPRINKLER LAYOUT PLAN WITH HANGER LOCATIONS AND WEIGHTS. GENERAL CONTRACTOR SHALL PROVIDE TRUSS SUPPLIER WITH ALL OTHER HVAC/ELECTRICAL HANGING LOADS.

2. ALL TEMPORARY TRUSS BRACING REQUIRED FOR ERECTION, AS PER THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION "HIB-91", SHALL BE PERMANENTLY ATTACHED AND REMAIN IN PLACE TO SERVE AS PERMANENT TRUSS BRACING UNLESS NOTED OTHERWISE.

3. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED OR ALTERED IN ANY OTHER MANNER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER RESPONSIBLE FOR DESIGNING THE TRUSSES.

4. TRUSS LAYOUTS AND CONFIGURATIONS SHOWN ARE SCHEMATIC ONLY AND MAY BE ALTERED AS REQUIRED. COORDINATE TRUSS CONFIGURATIONS WITH ALL ARCHITECTURAL REQUIREMENTS AND OTHER TRADES.

5. WOOD TRUSSES SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR THE SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. PLYWOOD/OSB ROOF SHEATHING SHALL RUN CONTINUOUS UNDER ALL VALLEY/OVERBUILD TRUSSES - TYPICAL.

6. PROVIDE MINIMUM OF TWO (2) STUDS UNDER 2-PLY TRUSSES, THREE (3) STUDS UNDER 3-PLY TRUSSES AND FOUR (4) STUDS UNDER 4-PLY TRUSSES UNLESS NOTED OTHERWISE.

7. MICRO=LAM (LVL) TIMBER SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE DESIGN STRESSES: BENDING STRESS, Fb = 2,600 PSI, HORIZONTAL SHEAR STRESS, Fv = 285 PSI, AND MODULUS OF ELASTICITY, E = 1,900,000 PSI - CONNECT MULTIPLE MEMBERS TOGETHER AS PER MANUFACTURERS RECOMMENDATIONS.

8. ALL WOOD CONNECTORS, ANCHORS, FASTENERS, TIES, STRAPS, BASES, CAPS, ETC. SHALL BE SIMPSON "STRONG-TIE" (OR EQUIVALENT). CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL MEET THE REQUIREMENTS OF ASTM A653 (CLASS G185) OR ASTM A153.

9. ALL FRAMED LUMBER SHALL BE SOUTHERN PINE NO. 2 (SURFACED AT 19% MOISTURE CONTENT) OR BETTER - UNLESS NOTED OTHERWISE.

10. ALL LOAD BEARING TIMBER WALL STUDS SHALL BE SPRUCE-PINE-FIR(SOUTH) (SURFACE AT 19% MOISTURE CONTENT). TYPICAL UNLESS NOTED OTHERWISE.

11. ALL TIMBER/WOOD/PLYWOOD/OSB IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO THE EXTERIOR SHALL BE PRESSURE TREATED.

12. ALL WOOD CONNECTIONS SHALL NOT BE LESS THAN THOSE SPECIFIED IN TABLE 2304.9.1 OF THE CURRENT NORTH CAROLINA BUILDING CODE/IBC UNLESS NOTED OTHERWISE. LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS REQUIREMENTS.

13. GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF TRUSSES WITH OTHER TRADES - SHIFT TRUSSES A MAXIMUM OF 3 1/2" AS REQUIRED.

14. ALL NON TONGUE AND GROOVE PLYWOOD/OSB PANELS SHALL HAVE 1/8" GAP AT ALL PANEL EDGES. PROVIDE SIMPSON PSCL (OR EQUIVALENT) PLYWOOD CLIPS @ 24" AT PANEL EDGES OF ALL ROOF PLYWOOD/OSB SHEATHING. WHERE SHEATHING IS APPLIED TO BOTH SIDES OF A SHEAR WALL PROVIDE DOUBLE STUDS OR STAGGER SHEATHING JOINTS.

15. WALL SHEATHING SHALL LAP AND CONNECT TO FOUNDATION SILL PLATE AND LAP PAST WALL PLATES TO CONNECT TO UPPER STORY FLOOR PLATE - PROVIDE EDGE PATTERN NAILING. PROVIDE 2x BLOCKING AT ALL EDGES.

16. ALL TIMBER/WOOD POSTS GREATER THAN 5" IN SIZE SHALL BE SOUTHERN PINE, NO. 2 DENSE SR OR BETTER. TYPICAL UNLESS NOTED OTHERWISE.

SIMPSON ANCHOR TIEDOWN SYSTEMS (ATS):

1. ATS IS AN ASSEMBLAGE OF STEEL COMPONENTS, WHICH INCLUDE RODS, PLATES, COUPLER NUTS, TAKE-UP DEVICES AND NUTS. STUDS, POSTS AND BLOCKING BY ENGINEER OF RECORD.

2. SIMPSON STRONG-TUE IS PROVIDING THE ANCHOR TIEDWON SYSTEM TO MEET THE DESIGN FORCES PROVIDED BY THE ENGINEER OF RECORD. THE EOR IS RESPONSIBLE FOR EVALUATING THE EFFECTS OF LUMBER SHRINKAGE AND ATS ELONGATION ON SHEARWALL DRIFT.

3. GENERAL CONTRACTOR OF INSTALLER OF ATS SHALL CUT RODS TO LENGTH AS REQUIRED.

4. DO NOT WELD PRODUCTS UNLESS DRAWINGS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING, OR UNLESS SPECIFIC APPROVAL FOR WELDING IS PROVIDED BY SIMPSON STRONG-TIE.

5. FULLY ENGAGE EACH ROD INTO THE SPECIFIED COUPLING NUT OR UNTIL EACH ROD CAN BE SEEN FULLY IN THE WITNESS HOLES.

6. INSTALL NUTS AND ISOLATOR NUTS SNUG TIGHT, PLUS AN ADDITIONAL 1/2 TURN.

7. IN THE EVENT OF A DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SIMPSON INSTALLATION DRAWINGS, THE STRUCTURAL DRAWINGS SHALL GOVERN.

NOTE!

GEOTECHNICAL ENGINEER SHALL VERIFY REQUIREMENTS FOR VOID SPACE WITH CARDBOARD FORMS UNDER STRUCTURAL FIRST FLOOR SLAB. GENERAL CONTRACTOR SHALL COORDINATE.

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REVISIONS

No.	Date	Description

KEY PLAN

Shiva Southaven
Inc.

Holiday Inn Express
& Suites

Lot 16 (Rev Lot 3) Southcrest
Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
General Notes

Phase
Construction Documents

Project No. 14-081
Prepared by AEB
Checked by HLW
Date Feb. 27, 2015
Sheet No. S001

Review

Holiday Inn Express & Suites

FOLDING PARTITION:

1. FOLDING PARTITION IS ASSUMED TO BE 10'-0" HIGH WITH A WEIGHT OF 12 PSF. MAXIMUM SUPPORT LIVE LOAD DEFLECTION SHALL BE LIMITED TO 1 1/2". GENERAL CONTRACTOR SHALL VERIFY WITH PARTITION SUPPLIER.

POST-INSTALLED ANCHORS:

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING STEEL REINFORCING. HOLES SHALL BE DRILLED AND CLEANED AS PER MANUFACTURERS RECOMMENDATIONS. ANCHORS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR INSTALLING ADHESIVE ANCHORS SHALL BE TRAINED BY THE MANUFACTURERS REPRESENTATIVE. THIS TRAINING SHALL INCLUDE HOLE DRILLING, CLEANING AND INSTALLATION METHODS FOR CONSTRUCTION CONDITIONS ON THIS PROJECT.

*CONCRETE ANCHORS SEISMIC DESIGN CATEGORY A, B, C, D, E, AND F:
1) EXPANSION ANCHORS - "STRONG-BOLT 2" OR "STRONG-BOLT" BY SIMPSON STRONG-TIE, "KWIK BOLT TZ" BY HILTI OR EQUIVALENT, "POWER STUD+ SD1" BY POWERS FASTENERS - UNLESS NOTED OTHERWISE.
2) CONCRETE ADHESIVE ANCHORS - "SET-XP EPOXY-TIE" BY SIMPSON STRONG-TIE, "HIT-RE 500-SD" OR "HIT-HY 150 MAX-SD" BY HILTI OR EQUIVALENT - UNLESS NOTED OTHERWISE.
3) SCREW ANCHORS - "TITEN HD" BY SIMPSON STRONG-TI, "KWIK HUS-EZ" BY HILTI OR EQUIVALENT.
4) SLEEVE ANCHORS - "HSL-3" BY HILTI OR EQUIVALENT.

*MASONRY ANCHORS:
1) EXPANSION ANCHORS - "WEDGE-ALL" BY SIMPSON STRONG-TIE, "KWIK BOLT 3" BY HILTI OR EQUIVALENT - UNLESS NOTED OTHERWISE.
2) ADHESIVE ANCHORS (GROUT FILLED) - "SET EPOXY-TIE" BY SIMPSON STRONG-TIE, "HIT-HY 150 MAX" BY HILTI OR EQUIVALENT - UNLESS NOTED OTHERWISE.
3) ADHESIVE ANCHORS (HOLLOW CMU OR BRICK) - "SET EPOXY-TIE" BY SIMPSON STRONG-TIE, "HIT-HY 70" BY HILTI OR EQUIVALENT - UNLESS NOTED OTHERWISE.
4) SCREW ANCHORS - "TITEN HD" BY SIMPSON STRONG-TIE, "HUS-H" BY HILTI OR EQUIVALENT.
5) SLEEVE ANCHORS - "SLEEVE-ALL" BY SIMPSON STRONG-TIE, "HLC" BY HILTI OR EQUIVALENT.

STAIR DESIGN:

1. STAIRS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF OF THE PROJECT. DESIGNS SHALL BE SEALED AND SIGNED BY HIM/HER AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF STAIRS AND STRUCTURAL FRAMING, INCLUDING ARRANGEMENT, DIMENSIONS, CONNECTIONS AND RELATION TO ADJACENT WORK TO ARCHITECT FOR APPROVAL.

ELEVATOR:

1. GENERAL CONTRACTOR SHALL COORDINATE/VERIFY ALL STRUCTURAL STEEL REQUIRED FOR GUIDE RAIL SUPPORT AND HOIST BEAM. PROVIDE W8x10 HOIST BEAM AND HSS 6x4x5/16 GUIDE RAIL UNLESS NOTED OTHERWISE. VERIFY/COORDINATE ALL STEEL LOCATIONS, DIMENSIONS AND ELEVATIONS - TYPICAL.

PRE-MANUFACTURED CANOPIES AND AWNINGS:

1. THE DESIGN, CONNECTION AND ALL ATTACHMENTS OF ALL CANOPIES AND AWNINGS SHALL BE THE RESPONSIBILITY OF THE CANOPY/AWNING SUPPLIER. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ATTACHMENT REQUIREMENTS AND PROVIDE ADDITIONAL STUDS, BLOCKING ETC. AS REQUIRED.

WALL STUD SCHEDULE.

FLOOR	SPECIES	SIZE	SPACING	LOCATION	NOTES
4TH	SPFS STUD	2x6	@ 16" O.C.	ALL	
3RD	SPFS STUD	2x6	@ 16" O.C.	ALL	
2ND	SPFS STUD	2x6	@ 16" O.C.	ALL	
1ST	SPFS STUD	(2) 2x6	@ 16" O.C.	ALL	

SPFS STUD INDICATES SPRUCE-PINE-FIR (SOUTH) STUD GRADE

SHEAR WALLS SCHEDULE

FLOOR	PLYWOOD/OSB	FASTENER	SPACING	TENSION TIE
1ST	15/32" (1) SIDE OF WALL	8d NAIL	@ 4" O.C.	SEE SHEET S602
2ND	15/32" (1) SIDE OF WALL	8d NAIL	@ 4" O.C.	SEE SHEET S602
3RD	15/32" (1) SIDE OF WALL	8d NAIL	@ 6" O.C.	SEE SHEET S602
4TH	15/32" (1) SIDE OF WALL	8d NAIL	@ 6" O.C.	SEE SHEET S602

* 8d @ 12" O.C. INTERMEDIATE

* ALL TENSION TIES ARE SIMPSON OR EQUIVALENT

NOTE! – PLYWOOD/OSB SHEAR WALLS

MAIN WINDFORCE-RESITING SYSTEM SUBJECT TO SPECIAL INSPECTIONS 1705.4.1 INCLUDES PLYWOOD/OSB SHEATHING AND ATTACHMENT, BOTTOM PL ANCHORS, TENSION TIES, HURRICANE TIES, STRAPS, BLOCKING PANELS, BOLTS, THREADED RODS, AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS (SW), PLYWOOD/OSB FLOOR AND ROOF SHEATHING AND ATTACHMENT.

NOTE! – PLYWOOD/OSB SHEAR WALLS

ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS (SW) SHALL HAVE 15/32" EXTERIOR GRADE PLYWOOD/OSB SHEATHING. ATTACH SHEATHING TO SUPPORTING MEMBERS USING 8d NAILS. ALL EDGES TO BE BLOCKED WITH 2" NOMINAL FRAMING MEMBERS. NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM THE PANEL EDGE – SEE SCHEDUE (S002) FOR PANEL EDGE NAIL SPACING – NAIL @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. LAYOUT PANELS STAGGERED AND PERPENDICULAR TO WALL STUDS.

NOTE!

ATTACH DOUBLE 2x6 WALL STUDS TOGETHER USING 2 ROWS OF 16d NAILS @ 24" O.C. – TYPICAL

NOTE!

PROVIDE SOLID WOOD BLOCKING FROM ALL STUDS AND MULTIPLE (GANG) STUDS TO BEAM/WALL, STUDS OR FOUNDATION BELOW – TYPICAL

NOTE!

ATTACH GANG STUDS (3 OR MORE STUDS) TOGETHER USING SIMPSON SDS¼x6 SCREWS @ 12" O.C. STAGGERED EACH FACE – TYPICAL WHERE USING 3 OR MORE STUDS TOGETHER

NOTE!

GEOTECHNICAL ENGINEER SHALL VERIFY REQUIREMENTS FOR VOID SPACE WITH CARDBOARD FORMS UNDER STRUCTURAL FIRST FLOOR SLAB. GENERAL CONTRACTOR SHALL COORDINATE.

STRUCTURAL DESIGN CRITERIA:

DESIGN:

1. STRUCTURAL DESIGN CONFORMS TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION AND ASCE 7-10.

2. BUILDING CATEGORY (T1604.5) II

3. FLOOR LIVE LOADS USED IN DESIGN (POUNDS PER SQUARE FOOT):

RESIDENCE AND CORRIDORS SERVING THEM	40 PSF
PUBLIC ROOMS AND CORRIDORS SERVING THEM	100 PSF
STAIRS	100 PSF

4. BUILDING CODE REQUIRED ROOF LIVE AND SNOW LOAD USED IN DESIGN (POUNDS PER SQUARE FOOT):

LIVE		20 PSF
SNOW - Pg		10 PSF
SNOW - Pf		12 PSF
SNOW EXPOSURE FACTOR, Ce	1.0	
SNOW LOAD IMPORTANCE FACTOR, Is	1.0	
SNOW THERMAL FACTOR, Ct	1.0	
SNOW ROOF SLOPE FACTOR, Cs	1.0 (SLIDING SNOW)	

5. DEAD LOADS USED IN DESIGN (POUNDS PER SQUARE FOOT):

2ND-4TH FLOOR DEAD LOADS:	
FLOOR FINISH	1 PSF
3/4" GYPCRETE TOPPING	8 PSF
3/4" PLYWOOD	3 PSF
HANGING	4 PSF
MECHANICAL	3 PSF
SPRINKLERS	3 PSF
I-JOISTS	3 PSF
ROOF DEAD LOADS:	
ROOFING (SINGLE PLY MECHANICALLY FASTENED)	3 PSF
INSULATION	2 PSF
3/4" PLYWOOD	3 PSF
HANGING	3 PSF
MECHANICAL	3 PSF
SPRINKLERS	3 PSF
TRUSSES	3 PSF

6. WIND LOAD DATA:

ULTIMATE WIND SPEED, Vult	115 MPH
WIND IMPORTANCE FACTOR, Iw	1.0
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 T26.11-1)	±0.18

COMPONENT AND CLADDING WIND PRESSURE - ULTIMATE:

	10sf	100sf	500sf
ZONE 4	33.4 PSF	28.5 PSF	25.1 PSF
	-36.2 PSF	-31.3 PSF	-27.8 PSF
ZONE 5	33.4 PSF	28.5 PSF	25.1 PSF
	-44.5 PSF	-28.5 PSF	-27.8 PSF

CALCULATED WIND BASE SHEARS (FOR MWFRS) Vx = 79.2K Vy = 402.2K

7. SEISMIC LOAD DATA:

COMPLIANCE WITH ASCE 7-05 SECTION 11.7 ONLY? NO

SEISMIC DESIGN CATEGORY B, C & D

SEISMIC IMPORTANCE FACTOR, Ie	1.0
SOIL SITE CLASS	E
SPECTRAL RESPONSE ACCELERATION - SHORT PERIOD, SDS	0.619g
SPECTRAL RESPONSE ACCELERATION - 1.0 SECOND, SD1	0.547g
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC-FORCE RESISTING SYSTEM	
BEARING WALL SYSTEM/LIGHT FRAMED WALL W/ WOOD SHEAR WALLS	
RESPONSE MODIFICATION COEFFICIENT, R	6 1/2
DEFLECTION AMPLIFICATION FACTOR, Cd	4
BUILDING HEIGHT LIMIT, FEET	H = NL
EQUIVALENT LATERAL-FORCE PROCEDURE	

SEISMIC BASE SHEAR Vx = 138.6K Vy = 138.6K

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? SEE CHAPTER 13 OF ASCE 7-10

LATERAL DESIGN CONTROLLED BY: X-SEISMIC Y-WIND

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDED COPY OF TEST REPORT) STONE AGGREGATE PIERS 7,000 PSF

PRESUMPTIVE BEARING CAPACITY	NA
PILE SIZE, TYPE AND CAPACITY	NA

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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
General Notes

Phase
Construction Documents

Project No.	14-081	Sheet No.	S002
Prepared by	AEB		
Checked by	HLW		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTIONS REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, OWNER, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

STATEMENT OF SPECIAL INSPECTIONS (INTERNATIONAL BUILDING CODE, 2012 EDITION, CHAPTER 17):

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 360, SECTION A3.3	-
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	-	-
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. BEARING-TYPE CONNECTIONS.	-	X	AISC 360, SECTION M2.5	1704.3.3
B. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	ASTM A 6 OR ASTM A 568	1708.4
B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	-	-	ASTM A 6 OR ASTM A 568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASW STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	AISC 360, SECTION A3.5	-
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	-	-	-
5. INSPECTION OF WELDING: A. STRUCTURAL STEEL:	-	-		
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	-	AWS D1.1	1704.3.1
2. MULTIPASS FILET WELDS.	X	-		
3. SINGLE-PASS FILET WELDS > 5/16"	X	-		
4. SINGLE-PASS FILET WELDS < 5/16"	-	X		
5. FLOOR AND DECK WELDS	-	X	AWS D1.3	-
B. REINFORCING STEEL	-	-	AWS D1.4 ACI 318: 3.5.2	-
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAT ASTM A 706	-	X		
2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	-		
3. SHEAR REINFORCEMENT.	X	-		
4. OTHER REINFORCING STEEL.	-	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENT:	-	X	-	1704.3.2
A. DETAILS SUCH AS BRACING AND STIFFENING.	-	-		
B. MEMBER LOCATIONS.	-	-		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	-		

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3 ITEM 5B.	-	-	AWS D1.4 ACI 318: 3.5.2	-
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	-	-	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1913.9
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION: LEVEL 1 INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402[a]	ACI 530/ASCE 6/TMS 602[a]
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR.	-	X	-	-	ART. 2.6A
B. CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
C. LOCATION OF REINFORCEMENT AND CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.		X			ART. 3.4,3.6A
D. PRESTRESSING TECHNIQUE.		X			ART. 3.6B
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		X			ART. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	X	-	-	ART. 3.3G
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	-	X	-	SEC. 1.2.2(e), 2.1.4, 3.1.6	-
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	-	X	-	SEC. 1.13	ART. 2.4, 3.4
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	-	X	SEC. 2104.3, 2104.4	-	ART. 1.8C, 1.8D
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	-	X	-	-	ART. 3.3B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. GROUT SPACE IS CLEAN.	-	X	-	-	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.		X		SEC. 1.13	ART. 3.4
C. PROPORTION OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDDED TENDONS.		X		-	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS.		X		-	ART 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	-	-	-	ART. 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	-	SEC. 2105.2.2, 2105.3	-	ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	X	-	-	ART. 1.5

WALL PANELS AND VENEERS

Verification/Inspection	Agent No. / MQIA	Inspections Cont.	Inspections Periodic	Referenced Standard	IBC Reference	Notes	Design
1. Architectural wall panels a. Interior b. Exterior	1 1	– –	X 50% X 50%		1704.10		A
2. Masonry veneer (see 2.1–2.6)					1704.5		A
3. Exterior insulations and finish systems (EIFS) See Note #1 below			X		1704.12		A
4. Special cases: Special Inspections are required for work, that is in the opinion of the Building Official, unusual in its nature such as, but not limited to: a. Construction materials and systems that are alternatives to materials and systems prescribed by the code. b. Unusual design applications of materials described in the code. c. Materials and systems required to be installed with addtional manufacturers instructions that prescribe requirements not contained in the code or referenced standards.		as required	X		1704.13		A

NOTE #1: Special Inspections for EIFS are not required when installed over a water resistive barrier, with a means of draining moisture to the exterior; and not required where installed over concrete or masonry walls.

SEISMIC RESISTANCE

Verification/Inspection	Agent No. / MQIA	Inspections Cont.	Inspections Periodic	Referenced Standard	IBC Reference	Notes	Design
1. Structural Wood: a. Periodic special inspection is required for nailing, bolting, anchoring and framing components within the seismic–force–resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold downs	1	–	X		1707.3		S

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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Special Inspections

Phase
Construction Documents

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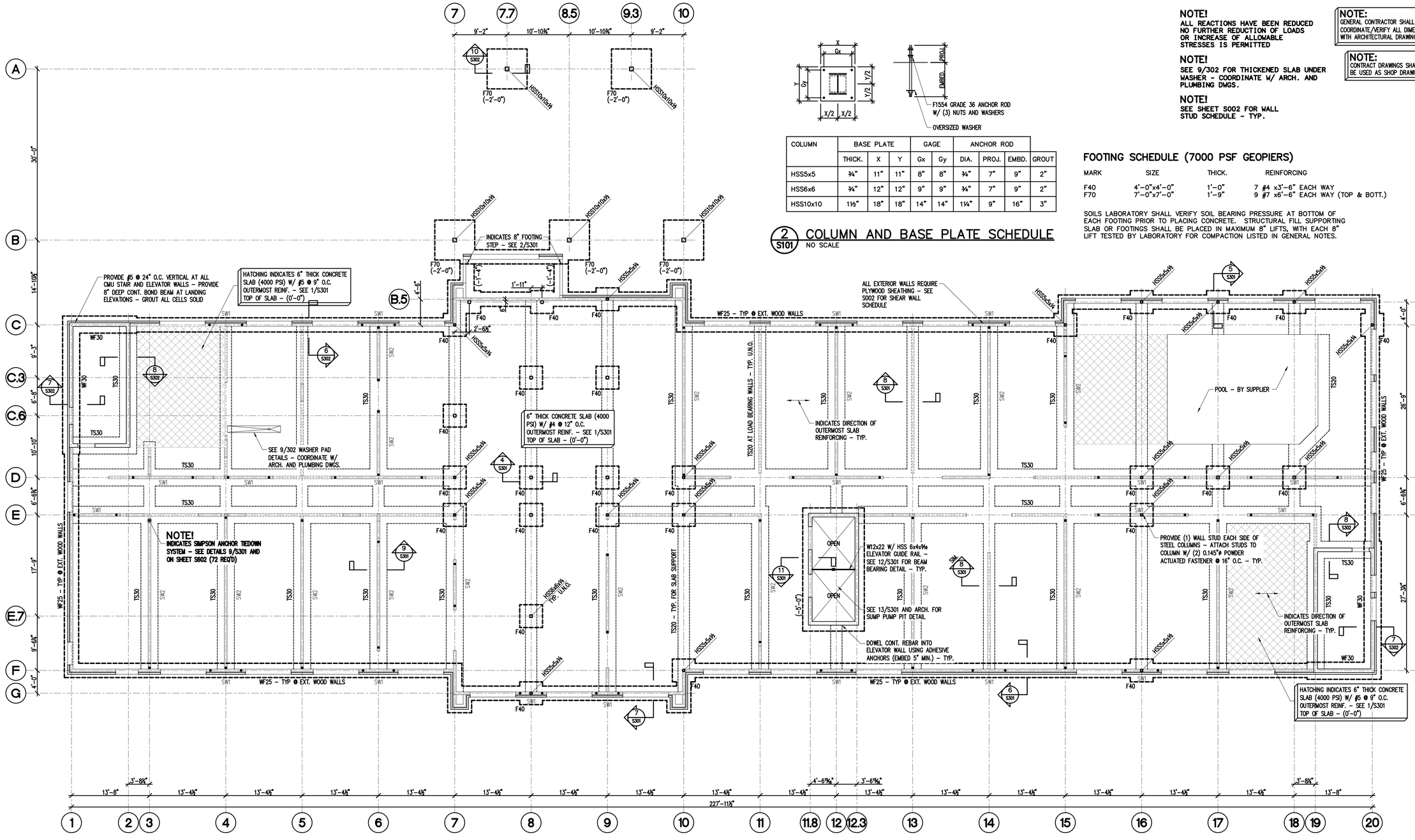
WESLEY T. PATTON REGISTERED PROFESSIONAL ENGINEER 12766 STATE OF MISSISSIPPI
02-27-15

Project No.	14-081
Prepared by	AEB
Checked by	HLW
Date	Feb. 27, 2015
Sheet No.	S003

Review

Holiday Inn Express & Suites



COLUMN	BASE PLATE			GAGE		ANCHOR ROD			
	THICK.	X	Y	Gx	Gy	DIA.	PROJ.	EMBD.	GROUT
HSS5x5	¾"	11"	11"	8"	8"	¾"	7"	9"	2"
HSS6x6	¾"	12"	12"	9"	9"	¾"	7"	9"	2"
HSS10x10	1½"	18"	18"	14"	14"	1¼"	9"	16"	3"

2/S101 COLUMN AND BASE PLATE SCHEDULE
NO SCALE

NOTE!
ALL REACTIONS HAVE BEEN REDUCED NO FURTHER REDUCTION OF LOADS OR INCREASE OF ALLOWABLE STRESSES IS PERMITTED

NOTE!
SEE 9/302 FOR THICKENED SLAB UNDER WASHER - COORDINATE W/ ARCH. AND PLUMBING DWGS.

NOTE!
SEE SHEET S002 FOR WALL STUD SCHEDULE - TYP.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE/VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

NOTE:
CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS

FOOTING SCHEDULE (7000 PSF GEOPIERS)

MARK	SIZE	THICK.	REINFORCING
F40	4'-0"x4'-0"	1'-0"	7 #4 x3'-6" EACH WAY
F70	7'-0"x7'-0"	1'-9"	9 #7 x6'-6" EACH WAY (TOP & BOTT.)

SOILS LABORATORY SHALL VERIFY SOIL BEARING PRESSURE AT BOTTOM OF EACH FOOTING PRIOR TO PLACING CONCRETE. STRUCTURAL FILL SUPPORTING SLAB OR FOOTINGS SHALL BE PLACED IN MAXIMUM 8" LIFTS, WITH EACH 8" LIFT TESTED BY LABORATORY FOR COMPACTION LISTED IN GENERAL NOTES.

NOTE!
ALL OUTERMOST SLAB REINFORCING AT END SPANS SHALL HAVE 90° STD. HOOK

NOTE!
GEOTECHNICAL ENGINEER SHALL VERIFY REQUIREMENTS FOR VOID SPACE WITH CARDBOARD FORMS UNDER STRUCTURAL FIRST FLOOR SLAB. GENERAL CONTRACTOR SHALL COORDINATE.

WALL FOOTING SCHEDULE 7,000 PSF SOIL BEARING (GEOPIERS)

MARK	WIDTH	THICK.	LONG. REINF.	TRANSVERSE REINF.	COMMENTS
TS20	2'-0"	1'-0"	(3) #4 BOTTOM	#4x1'-6" @ 24" O.C. BOTTOM	SEE 8/S301
TS30	3'-0"	1'-3"	(4) #5 BOTTOM	#4x2'-6" @ 14" O.C. BOTTOM	SEE 9/S301 SEE 8/S302
WF25	2'-6"	1'-0"	(3) #5 BOTTOM	#4x2'-0" @ 18" O.C. BOTTOM	SEE 6/S301
WF30	3'-0"	1'-3"	(4) #3 TOP (4) #5 BOTTOM	#4x2'-6" @ 14" O.C. TOP #4x2'-6" @ 14" O.C. BOTTOM	SEE 7/S302

SOILS LABORATORY SHALL VERIFY SOIL BEARING PRESSURE AT BOTTOM OF EACH FOOTING PRIOR TO PLACING CONCRETE. STRUCTURAL FILL SUPPORTING SLAB OR FOOTINGS SHALL BE PLACED IN MAXIMUM 8" LIFTS, WITH EACH 8" LIFT TESTED BY LABORATORY FOR COMPACTION LISTED IN GENERAL NOTES.

1/S101 FOUNDATION AND FLOOR SLAB PLAN
1/8" = 1'-0"

NOTES:

1. ALL ELEVATIONS REFERENCED ( ) FROM FINISH FLOOR ELEVATION 325.33' (0-0).
2. INTERIOR TOP OF FOOTING - T.O.F. (-1'-4") TYPICAL UNLESS NOTED OTHERWISE.
3. EXTERIOR TOP OF FOOTING - T.O.F. (-1'-4") TYPICAL UNLESS NOTED OTHERWISE.
4. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
5. SEE SHEET S001 AND S002 FOR GENERAL NOTES, WALL STUDS AND WALL SHEATHING NOTES.
6. ALL FOOTING STEPS 16" TYPICAL UNLESS NOTED OTHERWISE - SEE 2/S301.
7. SW1 INDICATES SHEAR WALL 1 - SEE SHEAR WALL SCHEDULE ON SHEET S002 TYPICAL.

TYPICAL WOOD FRAMING NOTES

1. ALL WALLS LABELED SW1 AND SW2 ARE SHEAR WALLS. SEE SHEET S002 FOR SHEAR WALL SCHEDULE.

2. SEE SHEET S002 FOR WALL STUDS AND PLYWOOD/OSB WALL SHEATHING - TYP.

3. SEE 10/S401 FOR HOLE IN I-JOIST - GENERAL CONTRACTOR TO VERIFY/COORDINATE WITH I-JOIST SUPPLIER - TYP.

4. WOOD I-JOISTS SHALL BE DESIGNED FOR ALL ADDITIONAL LOADS SHOWN ON FRAMING PLANS AND PROVIDE ADDITIONAL I-JOISTS IF REQUIRED.

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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

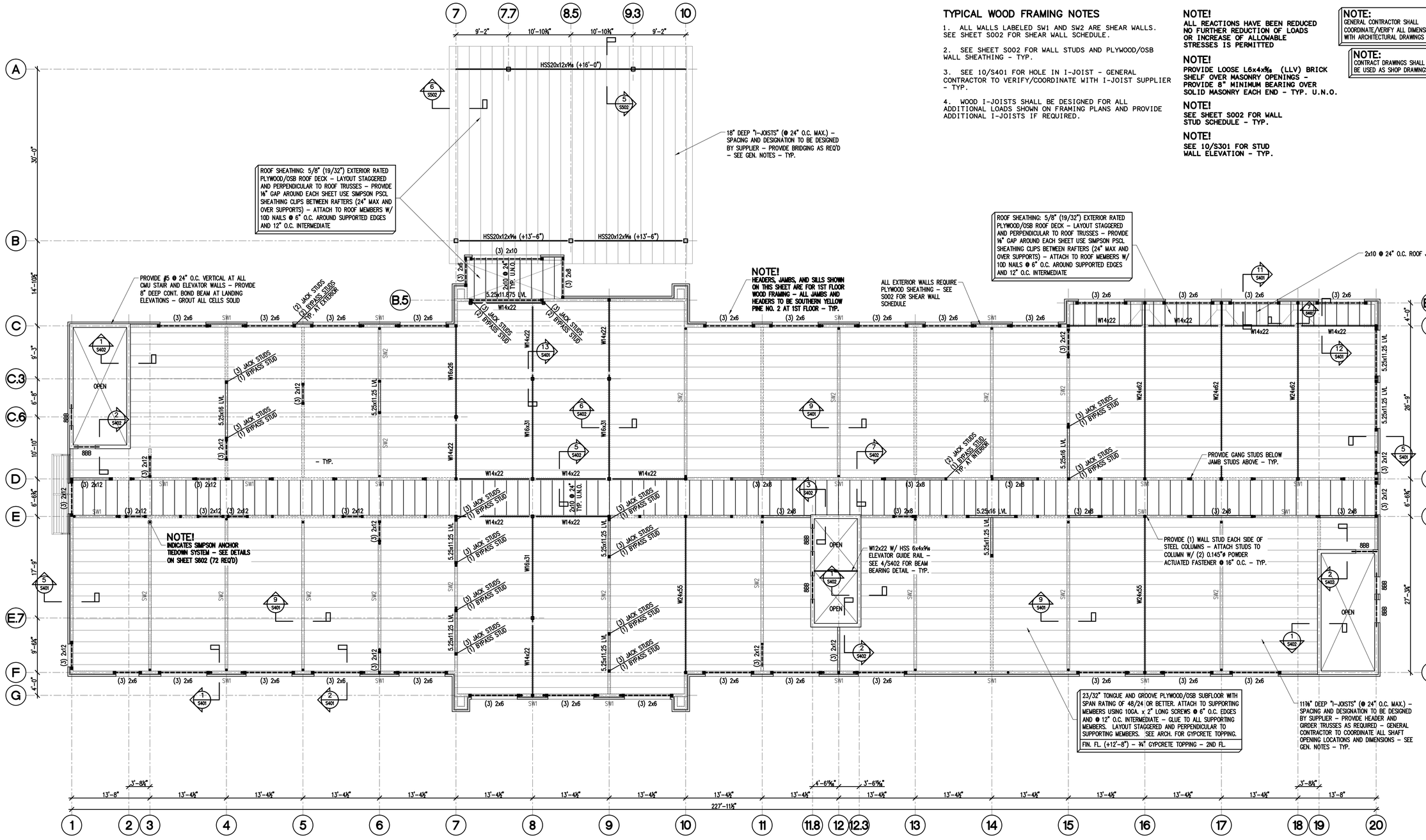
Drawing Title
Foundation and Floor Slab Plan

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	AEB	S101
Checked by	HLW	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites



TYPICAL WOOD FRAMING NOTES

1. ALL WALLS LABELED SW1 AND SW2 ARE SHEAR WALLS. SEE SHEET S002 FOR SHEAR WALL SCHEDULE.
2. SEE SHEET S002 FOR WALL STUDS AND PLYWOOD/OSB WALL SHEATHING - TYP.
3. SEE 10/S401 FOR HOLE IN I-JOIST - GENERAL CONTRACTOR TO VERIFY/COORDINATE WITH I-JOIST SUPPLIER - TYP.
4. WOOD I-JOISTS SHALL BE DESIGNED FOR ALL ADDITIONAL LOADS SHOWN ON FRAMING PLANS AND PROVIDE ADDITIONAL I-JOISTS IF REQUIRED.

NOTE!
ALL REACTIONS HAVE BEEN REDUCED NO FURTHER REDUCTION OF LOADS OR INCREASE OF ALLOWABLE STRESSES IS PERMITTED

NOTE!
PROVIDE LOOSE L6x4x⅝ (LLV) BRICK SHELF OVER MASONRY OPENINGS – PROVIDE 8" MINIMUM BEARING OVER SOLID MASONRY EACH END – TYP. U.N.O.

NOTE!
SEE SHEET S002 FOR WALL STUD SCHEDULE – TYP.

NOTE!
SEE 10/S301 FOR STUD WALL ELEVATION – TYP.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE/VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

NOTE:
CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS

1 S201 2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. ALL ELEVATIONS REFERENCED FROM FINISH FLOOR ELEVATION 325.33' (0-0).
2. "I-JOIST BEARING" - J.B. (+11'-6⅝") SECOND FLOOR TYPICAL UNLESS NOTED OTHERWISE.
3. TOP OF STEEL - T.O.S. (+12'-5") TYPICAL UNLESS NOTED OTHERWISE.
4. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
5. SEE SHEET S001 AND S002 FOR GENERAL NOTES, WALL STUDS AND WALL SHEATHING NOTES.
6. LVL INDICATES MICRO=LAM LVL BY I-LEVEL OR EQUIVALENT.
7. BB INDICATES 8" DEEP BOND BEAM - SEE 5/S302.
8. SEE SHEAR WALL SCHEDULE ON SHEET S002 TYPICAL.

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No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
2nd Floor Framing Plan

Phase
Construction Documents

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02-27-15

Project No.	14-081	Sheet No.	S201
Prepared by	AEB		
Checked by	HLW		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

TYPICAL WOOD FRAMING NOTES

1. ALL WALLS LABELED SW1 AND SW2 ARE SHEAR WALLS. SEE SHEET S002 FOR SHEAR WALL SCHEDULE.

2. SEE SHEET S002 FOR WALL STUDS AND PLYWOOD/OSB WALL SHEATHING - TYP.

3. SEE 10/S401 FOR HOLE IN I-JOIST - GENERAL CONTRACTOR TO VERIFY/COORDINATE WITH I-JOIST SUPPLIER - TYP.

4. WOOD I-JOISTS SHALL BE DESIGNED FOR ALL ADDITIONAL LOADS SHOWN ON FRAMING PLANS AND PROVIDE ADDITIONAL I-JOISTS IF REQUIRED.

NOTE!
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NOTE!
SEE SHEET S002 FOR WALL STUD SCHEDULE - TYP.

NOTE!
SEE 10/S301 FOR STUD WALL ELEVATION - TYP.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE/VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

NOTE:
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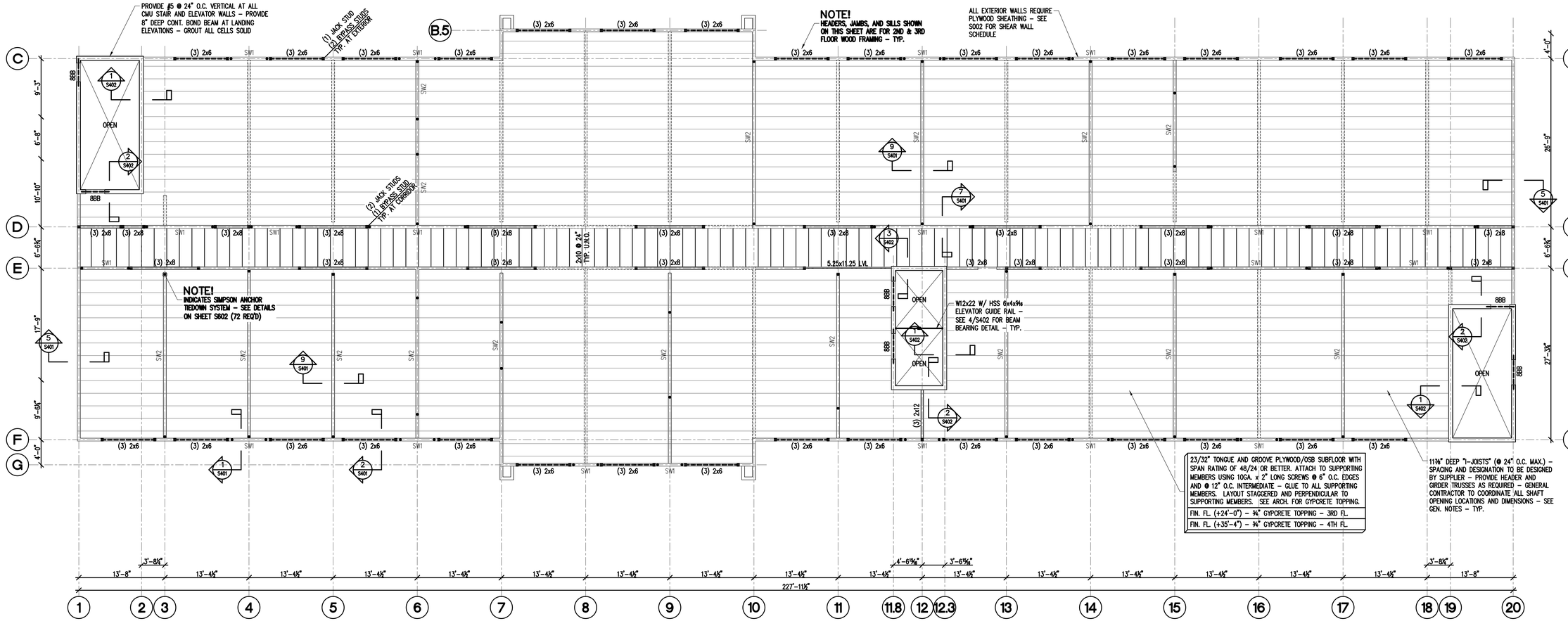

1/S202 3RD AND 4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. ALL ELEVATIONS REFERENCED FROM FINISH FLOOR ELEVATION 325.33' (0-0).
2. "I-JOIST BEARING" - J.B. (+22'-10⅝") THIRD FLOOR TYPICAL UNLESS NOTED OTHERWISE.
   J.B. (+34'-2⅝") FOURTH FLOOR TYPICAL UNLESS NOTED OTHERWISE.
3. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
4. SEE SHEET S001 AND S002 FOR GENERAL NOTES, WALL STUDS AND WALL SHEATHING NOTES.
5. LVL INDICATES MICRO=LAM LVL BY I-LEVEL OR EQUIVALENT.
6. BB INDICATES 8" DEEP BOND BEAM - SEE 5/S302.
7. SEE SHEAR WALL SCHEDULE ON SHEET S002 TYPICAL.

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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
3rd and 4th Floor Framing Plan

Phase
Construction Documents

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Project No.	14-081	Sheet No.	S202
Prepared by	AEB		
Checked by	HLW		
Date	Feb. 27, 2015		

Review

Holiday Inn Express & Suites

TYPICAL WOOD FRAMING NOTES

1. ALL WALLS LABELED SW1 AND SW2 ARE SHEAR WALLS. SEE SHEET S002 FOR SHEAR WALL SCHEDULE.

2. SEE SHEET S002 FOR WALL STUDS AND PLYWOOD/OSB WALL SHEATHING - TYP.

3. SEE 10/S401 FOR HOLE IN I-JOIST - GENERAL CONTRACTOR TO VERIFY/COORDINATE WITH I-JOIST SUPPLIER - TYP.

4. WOOD I-JOISTS SHALL BE DESIGNED FOR ALL ADDITIONAL LOADS SHOWN ON FRAMING PLANS AND PROVIDE ADDITIONAL I-JOISTS IF REQUIRED.

NOTE!
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NOTE!
SEE SHEET S002 FOR WALL STUD SCHEDULE - TYP.

NOTE!
SEE 10/S301 FOR STUD WALL ELEVATION - TYP.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE/VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

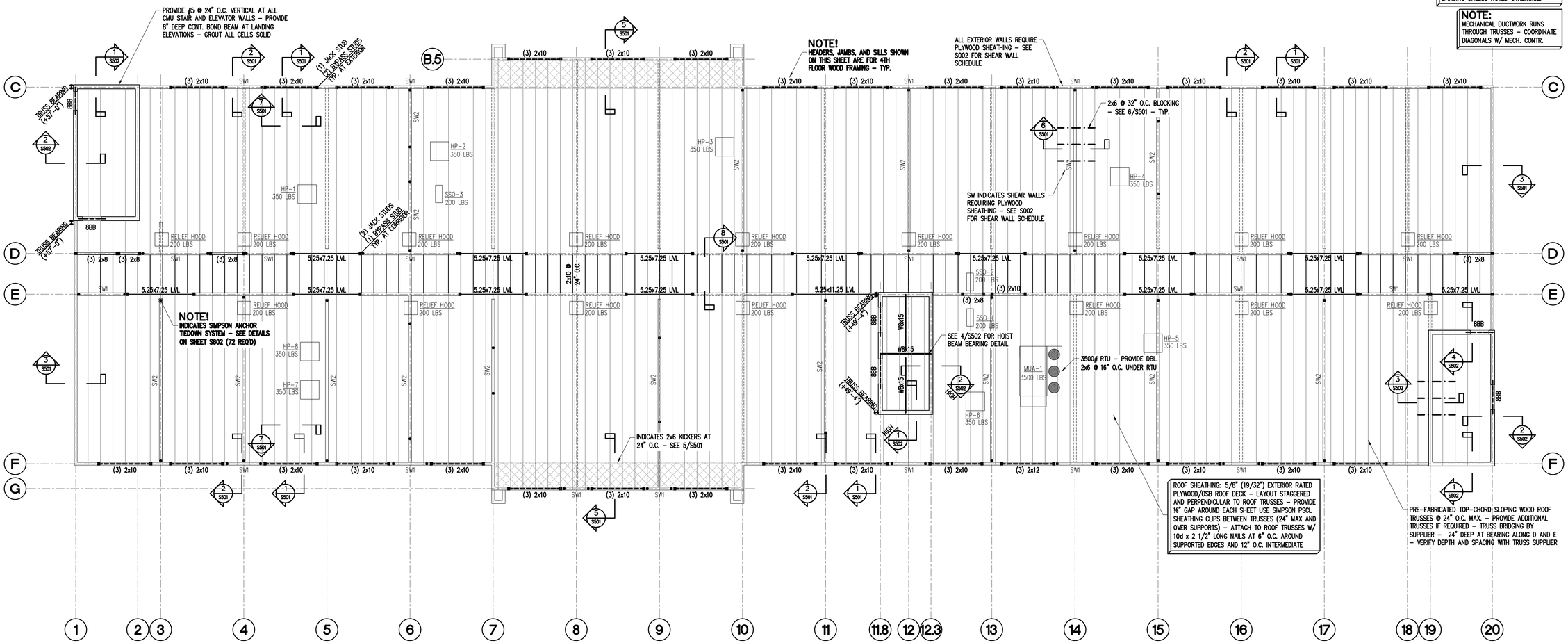
NOTE:
CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS

NOTE:
MECHANICAL CONTR. SHALL VERIFY SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS AND OPENINGS PRIOR TO WOOD JOIST FABRICATION. MECH. CONTRACTOR SHALL VERIFY MAGNITUDE AND LOCATION OF POINT LOADS PRIOR TO TRUSS FABRICATION. ALL INFORMATION REGARDING MECHANICAL UNITS ARE BASED ON PROPOSED UNITS. PROVIDE DBL. 2x6 FRAME UNDER MECHANICAL UNIT CURBS BELOW ROOF DECK AND 2x6 FRAME AROUND ROOF OPENINGS - SEE 9/S501 - TYP.

NOTE:
ATTACHMENT OF ALL MECHANICAL UNITS TO SUPPORTING STRUCTURE SHALL BE DESIGNED AND FURNISHED BY MECH. UNIT SUPPLIER TO RESIST LOCAL SEISMIC AND WIND LOADS.

NOTE:
ALL TEMPORARY TRUSS BRACING REQUIRED FOR ERECTION SHALL BE PERMANENTLY ATTACHED AND REMAIN IN PLACE TO SERVE AS PERMANENT TRUSS BRACING UNLESS NOTED OTHERWISE.

NOTE:
MECHANICAL DUCTWORK RUNS THROUGH TRUSSES - COORDINATE DIAGONALS W/ MECH. CONTR.



1/S203 ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. ALL ELEVATIONS REFERENCED FROM FINISH FLOOR ELEVATION 325.33' (0-0).
2. TRUSS BEARING - T.B. (+46'-0") TYPICAL UNLESS NOTED OTHERWISE.
3. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
4. SEE SHEET S001 AND S002 FOR GENERAL NOTES, WALL STUDS AND WALL SHEATHING NOTES.
5. LVL INDICATES MICRO=LAM LVL BY I-LEVEL OR EQUIVALENT.
6. BB INDICATES 8" DEEP BOND BEAM - SEE 5/SJ02.
7. SEE SHEAR WALL SCHEDULE ON SHEET S002 TYPICAL.

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KEY PLAN

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Holiday Inn Express & Suites

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Southaven, MS 38671

Drawing Title
Roof Framing Plan

Phase
Construction Documents

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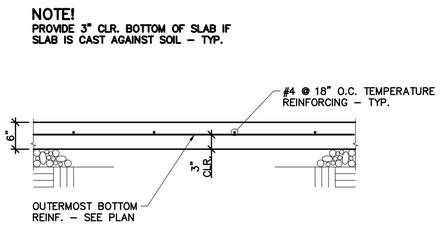
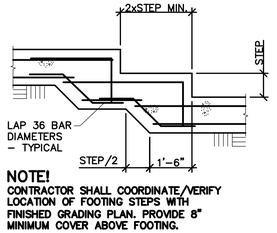
Project No.	14-081	Sheet No. S203
Prepared by	AEB	
Checked by	HLW	
Date	Feb. 27, 2015	

Review

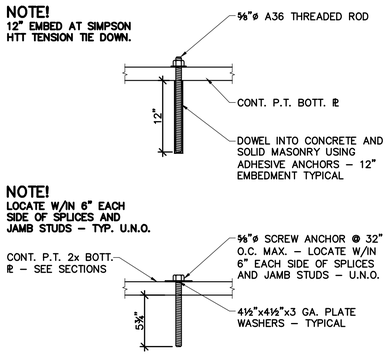
Holiday Inn Express & Suites



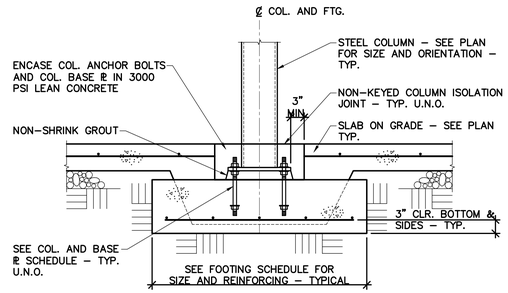
1 S301 TYPICAL 6" SLAB REINFORCING
3/4" = 1'–0"



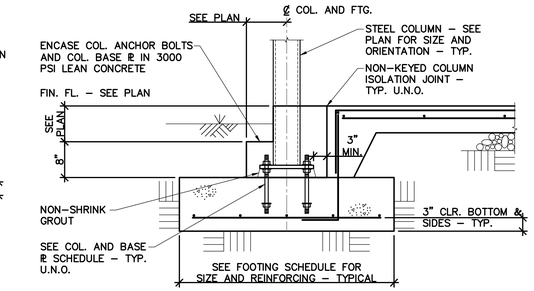
2 S301 TYP. FOOTING STEP
3/4" = 1'–0"



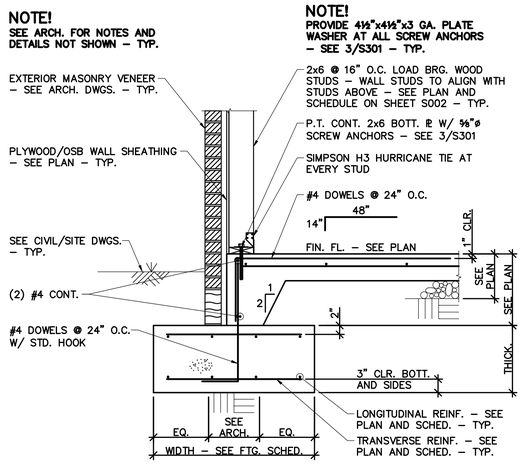
3 S301 SILL PLATE DETAIL
1 1/2" = 1'–0"



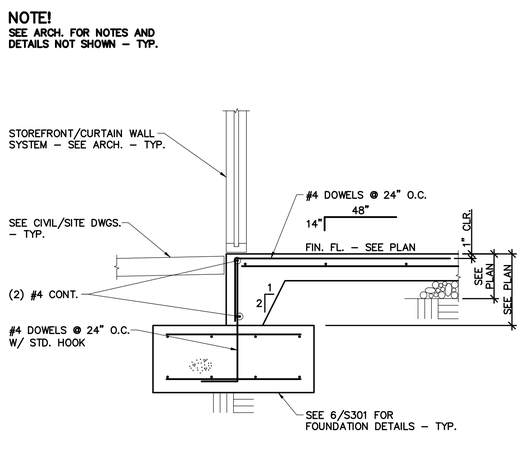
4 S301 SECTION INTERIOR COLUMN FOOTING
3/4" = 1'–0"



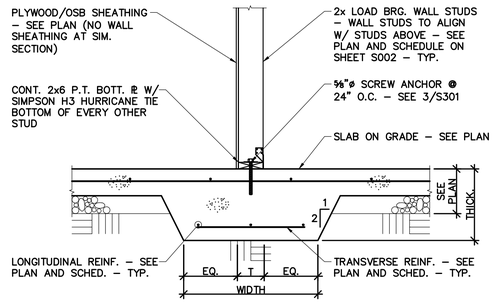
5 S301 SECTION EXTERIOR COLUMN FOOTING
3/4" = 1'–0"



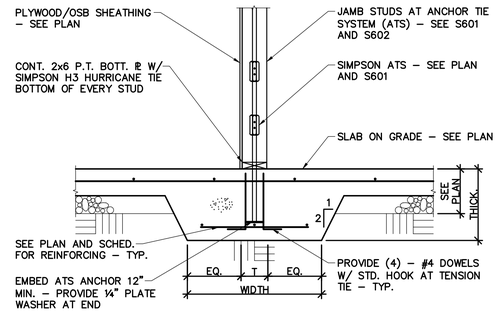
6 S301 EXTERIOR WALL FOOTING
3/4" = 1'–0"



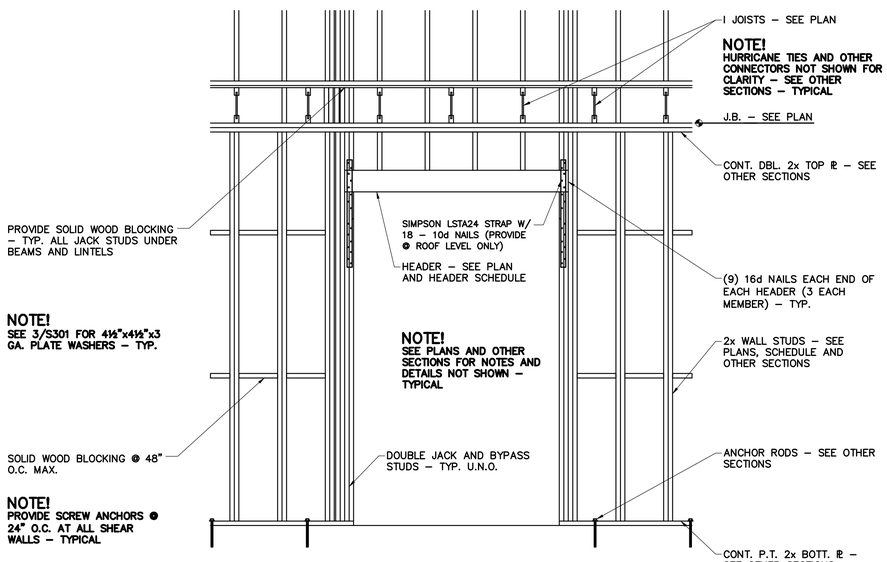
7 S301 EXTERIOR WALL FOOTING
3/4" = 1'–0"



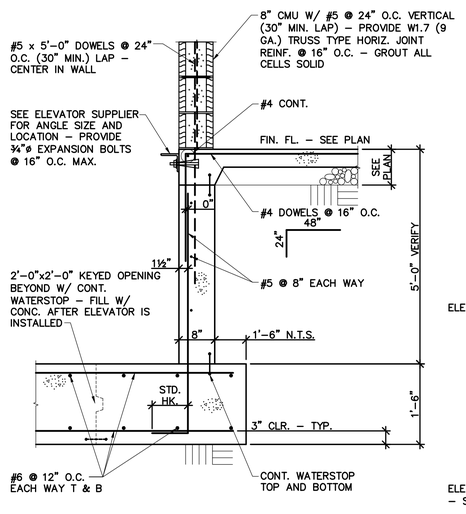
8 S301 THICKENED SLAB AT SHEAR WALL
3/4" = 1'–0"



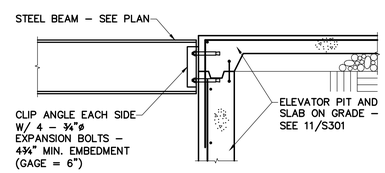
9 S301 THICKENED SLAB AT SHEAR WALL
3/4" = 1'–0"



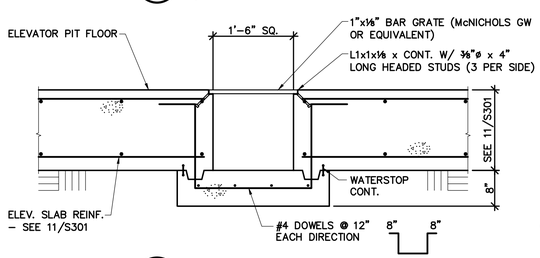
10 S301 ELEVATION LOAD BEARING WOOD STUD WALL
NO SCALE



11 S301 ELEVATOR PIT WALL
3/4" = 1'–0"



12 S301 W12 AT ELEVATOR PIT
3/4" = 1'–0"



13 S301 SUMP PUMP PIT DETAIL
3/4" = 1'–0"

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KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

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Project No.	14-081	Sheet No.
Prepared by	AEB	S301
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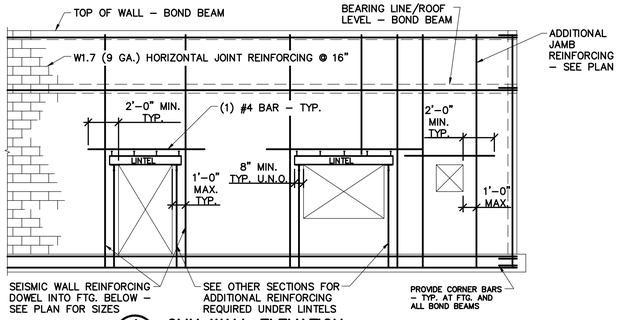
Review

Holiday Inn Express & Suites

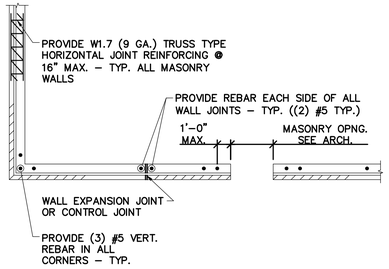


1 S302 CMU WALL ELEVATION

NO SCALE – INTERMEDIATE REINF. CMU WALLS

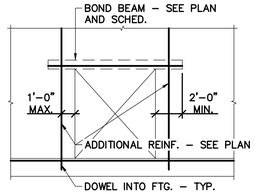
INTERIOR & EXTERIOR SEISMIC MASONRY WALL REQUIREMENTS – (U.N.O.)

1. VERTICAL REBAR (SEE PLAN) DOWELED INTO FOOTING.
2. HORIZONTAL REBAR AT TOP OF WALL, AT BEARING LINES, AND AT TOP OF FOOTING.
3. PROVIDE W1.7 (9 GA.) TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT @ 16" O.C.
4. PROVIDE REBAR (OR LINTEL) AROUND OPENINGS.
5. VERTICAL REBAR REQ'D EA. SIDE OF ALL VERT. WALL JOINTS (CONTROL & EXPANSION JOINTS).
6. LAP VERTICAL REBAR 48 BARø (MIN. LAP 24").
7. GROUT ALL CELLS SOLID WHERE REBAR OCCURS.
8. ALL VERTICAL REBAR TO BE POSITIONED IN BLOCK CELL BY PREFABRICATED WIRE POSITIONER – SUBMIT FOR APPROVAL.
9. SEE BEAM OR LINTEL BEARING DETAILS FOR ADDITIONAL WALL REINFORCING REQUIRED UNDER LINTELS.
10. ALL BRICK TIES SHALL CONFORM WITH SEISMIC DESIGN CATEGORY REQUIREMENTS – SUBMIT FOR APPROVAL.
11. CONSTRUCT ALL WALLS IN 5'–0" LIFTS.
12. SEE OTHER SECTIONS FOR NOTES AND DETAILS NOT SHOWN.



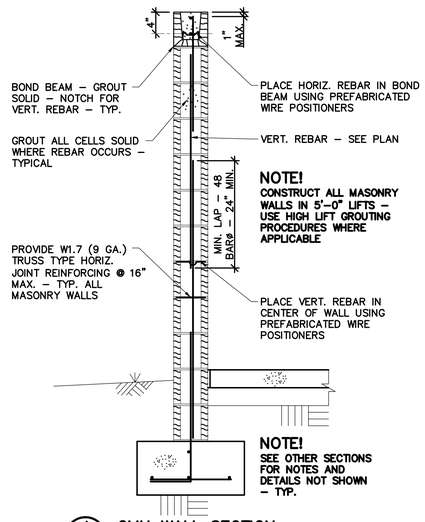
2 S302 CMU WALL REINFORCING

NO SCALE



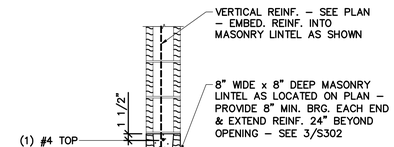
3 S302 CMU BOND BEAM ELEVATION

NO SCALE



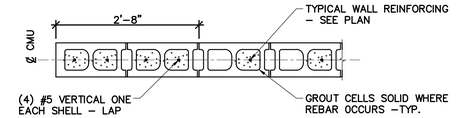
4 S302 CMU WALL SECTION

NO SCALE



5 S302 8" DEEP MASONRY LINTEL – 8BB

3/4" = 1'–0"



6 S302 8" CMU SHEAR WALL JAMB REINFORCING

3/4" = 1'–0"

NOTE!
SEE ARCH. DWGS. FOR NOTES AND DETAILS NOT SHOWN – TYPICAL

7 S302 EXTERIOR WALL FOOTING

3/4" = 1'–0"

8 S302 THICKENED SLAB AT INTERIOR WALL

3/4" = 1'–0"

9 S302 SECTION AT WASHING MACHINE PAD

3/4" = 1'–0"

10 S302 CANOPY COLUMN FOOTING

NO SCALE

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Project No.	14-081
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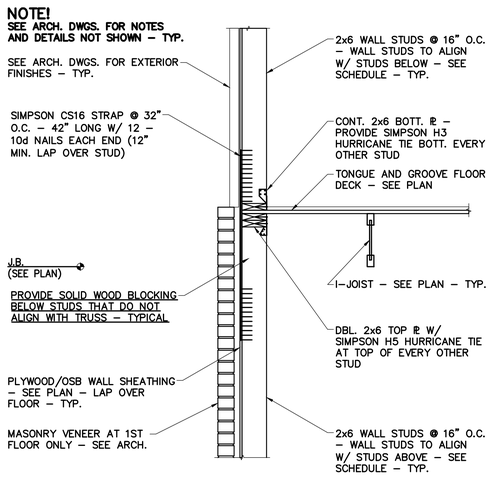
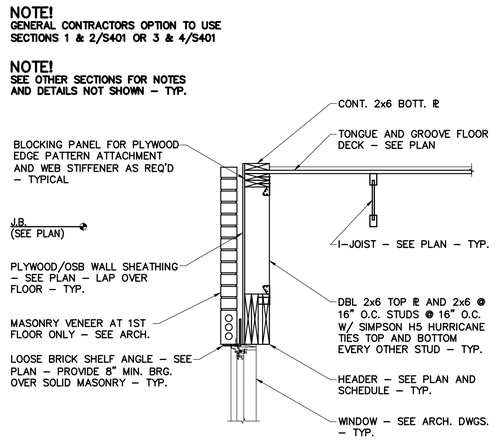
Sheet No.	S302

Review

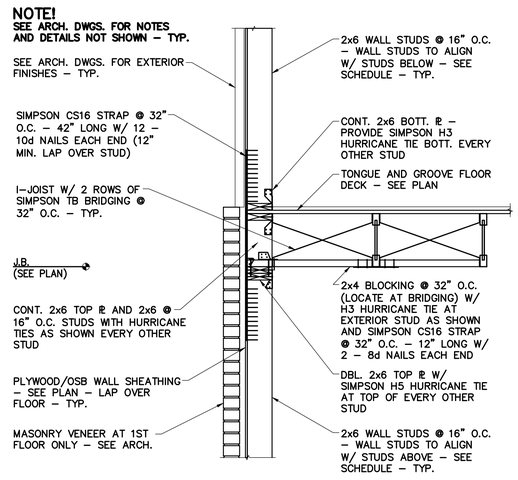
Holiday Inn Express & Suites



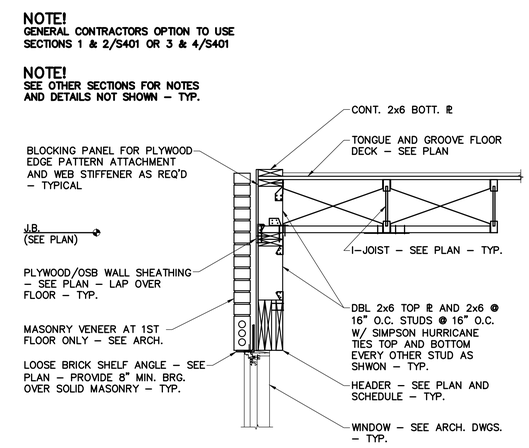
1 S401 SECTION AT FLOOR
3/4" = 1'–0"



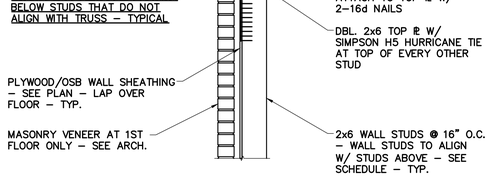
2 S401 SECTION AT FLOOR
3/4" = 1'–0"



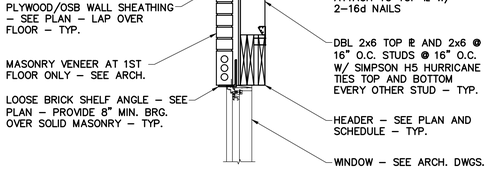
3 S401 SECTION AT FLOOR
3/4" = 1'–0"



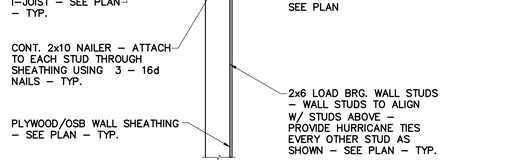
4 S401 SECTION AT FLOOR
3/4" = 1'–0"



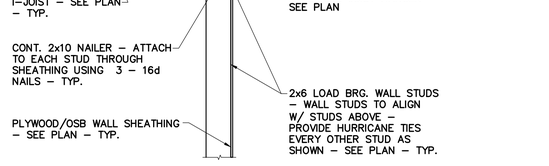
5 S401 SECTION AT FLOOR
3/4" = 1'–0"



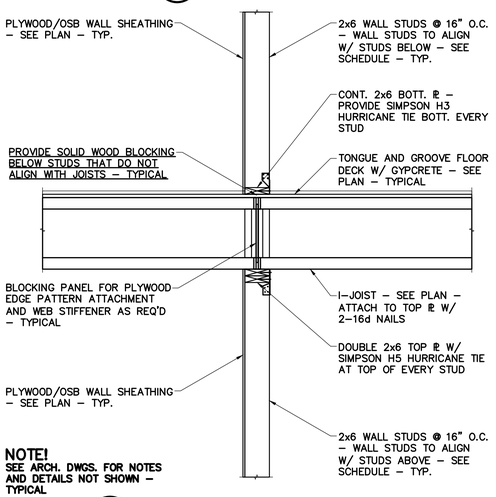
6 S401 SECTION AT FLOOR
3/4" = 1'–0"



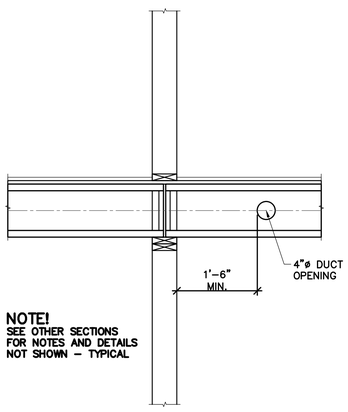
7 S401 SECTION AT CORRIDOR
3/4" = 1'–0"



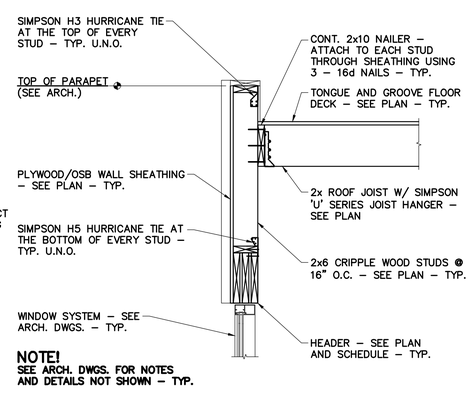
8 S401 SECTION AT CORRIDOR
3/4" = 1'–0"



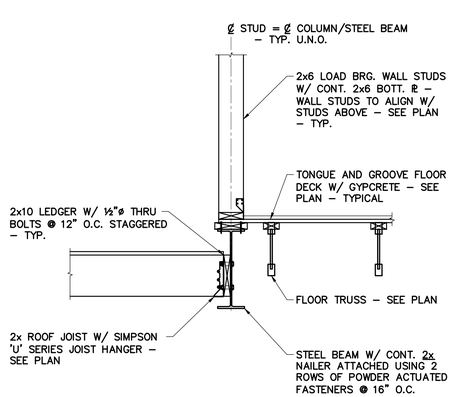
9 S401 INTERIOR LOAD BEARING SHEAR WALL
3/4" = 1'–0"



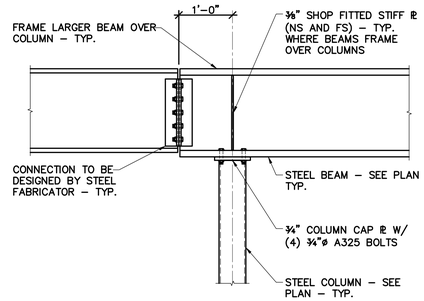
10 S401 HOLE IN I–JOIST
3/4" = 1'–0"



11 S401 LOW ROOF FRAMING
3/4" = 1'–0"



12 S401 SECTION AT STEEL BEAM
3/4" = 1'–0"



13 S401 BEAM CANTILEVERING OVER COLUMN
3/4" = 1'–0"

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Project No. 14-081	Sheet No. S401
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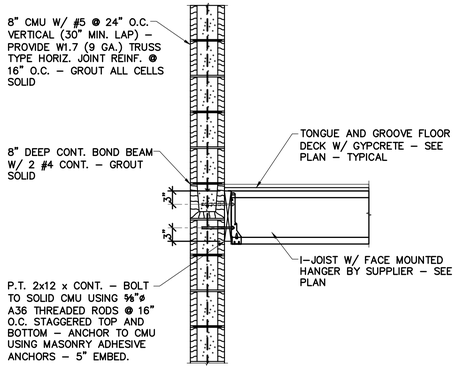
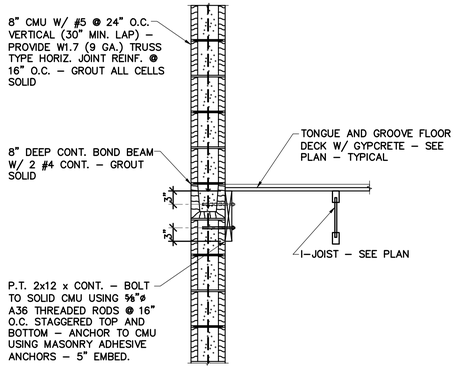
Checked by HLW	
Date Feb. 27, 2015	

Review

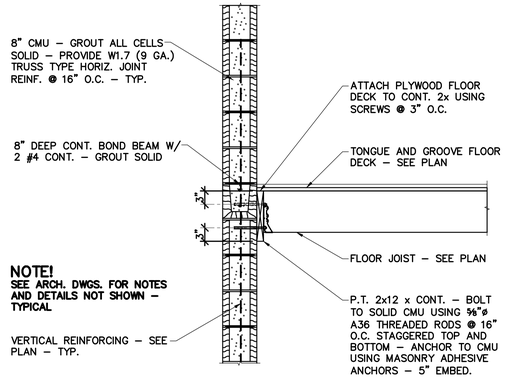
Holiday Inn Express & Suites



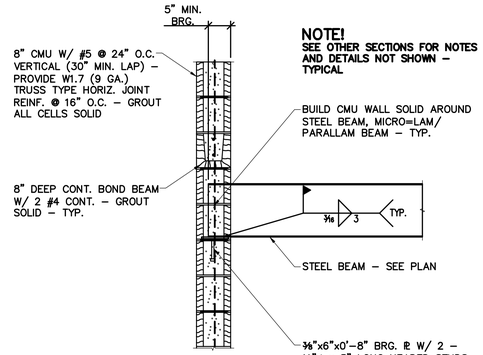
1 S402 **SECTION AT ELEVATOR/STAIR**
3/4" = 1'–0"



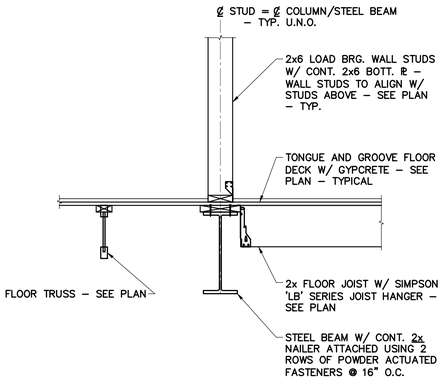
2 S402 **SECTION AT ELEVATOR/STAIR**
3/4" = 1'–0"



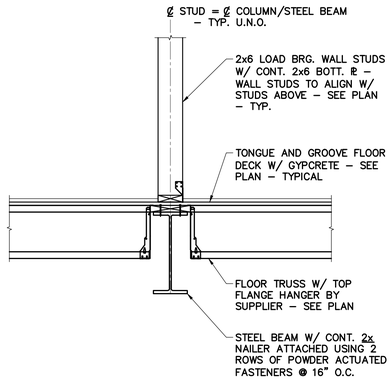
3 S402 **SECTION AT ELEVATOR/STAIR**
3/4" = 1'–0"



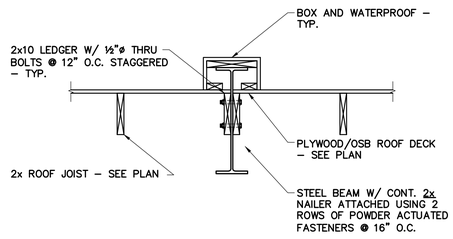
4 S402 **STEEL BEAM AT CMU WALL**
3/4" = 1'–0"



5 S402 **SECTION AT STEEL BEAM**
3/4" = 1'–0"



6 S402 **SECTION AT STEEL BEAM**
3/4" = 1'–0"



7 S402 **SECTION AT STEEL BEAM**
3/4" = 1'–0"

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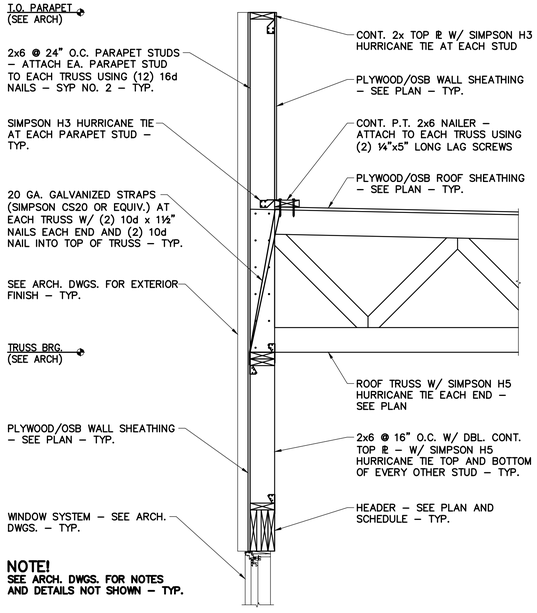
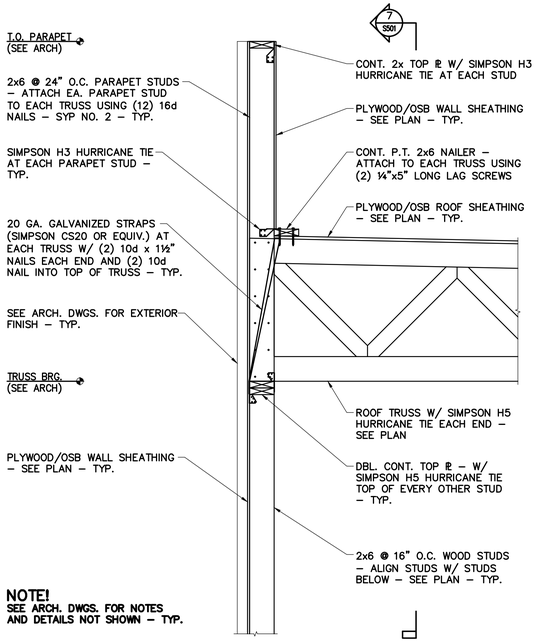


NOTE!
SEE ARCH. DWGS. FOR NOTES AND DETAILS NOT SHOWN – TYP.

1 S501 SECTION AT LOW PARAPET
3/4" = 1'-0"



NOTE!
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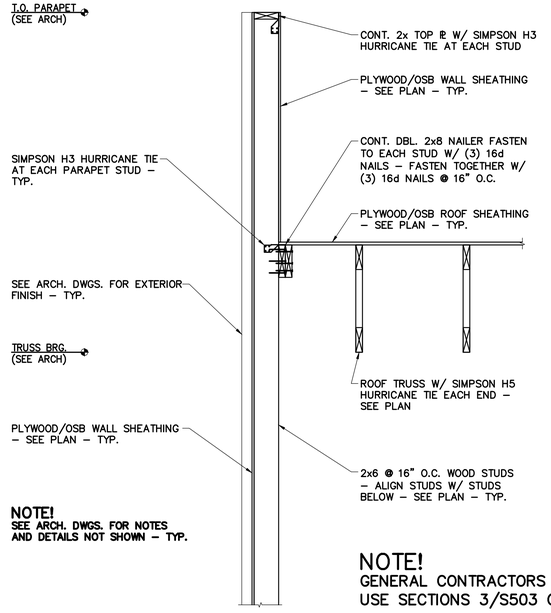
2 S501 SECTION AT LOW PARAPET
3/4" = 1'-0"



NOTE!
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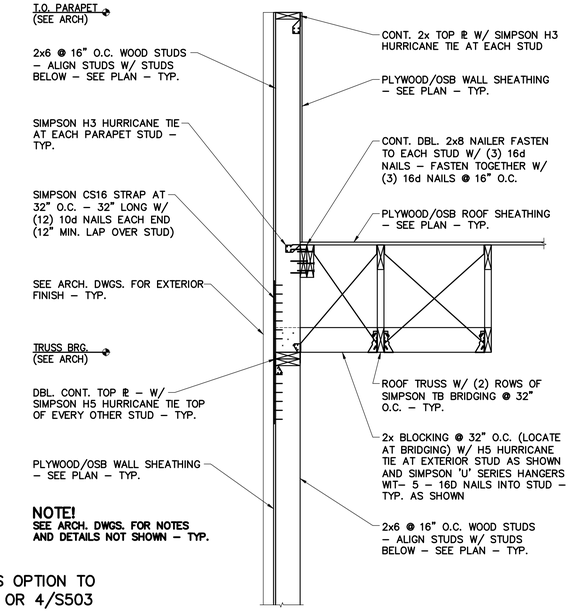
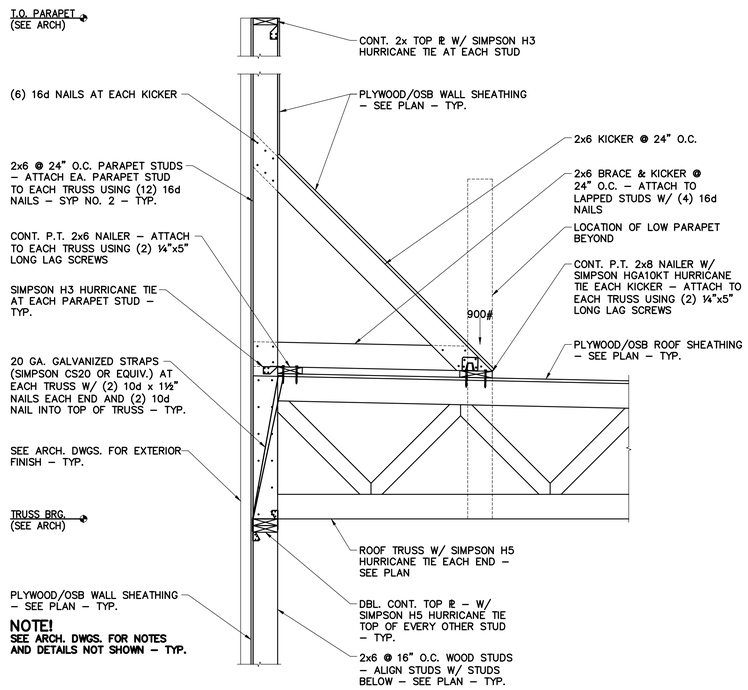
3 S501 SECTION AT LOW PARAPET
3/4" = 1'-0"



NOTE!
SEE ARCH. DWGS. FOR NOTES AND DETAILS NOT SHOWN – TYP.

4 S501 SECTION AT LOW PARAPET
3/4" = 1'-0"

NOTE!
GENERAL CONTRACTORS OPTION TO USE SECTIONS 3/S503 OR 4/S503



NOTE!
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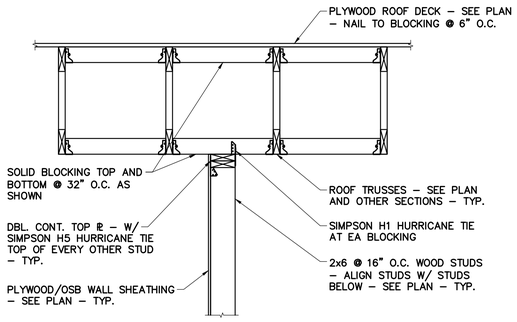
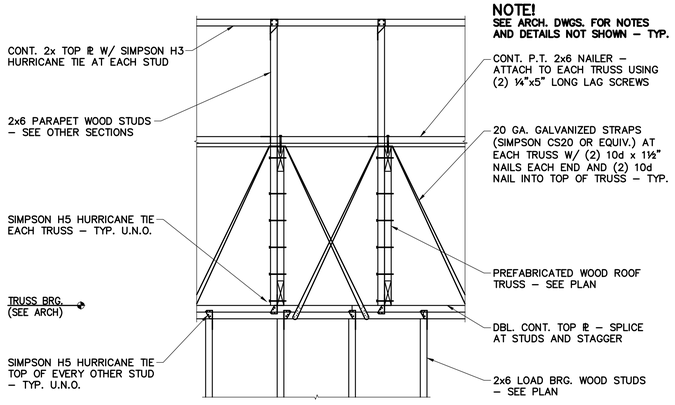
5 S501 SECTION AT HIGH PARAPET AND KICKER
3/4" = 1'-0"



6 S501 SECTION AT SHEAR WALL
3/4" = 1'-0"



NOTE!
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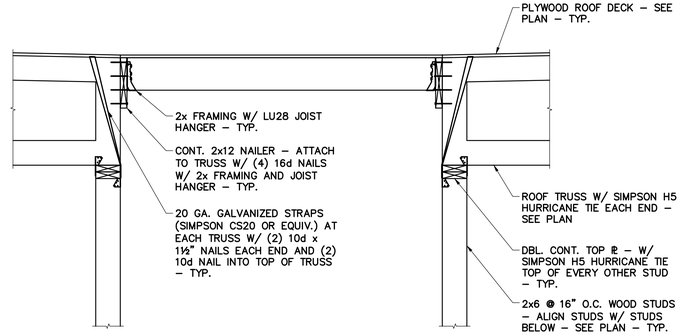
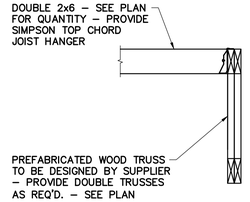
7 S501 ELEVATION STUDS AND TRUSSES
3/4" = 1'-0"



8 S501 SECTION AT CORRIDOR WALL
3/4" = 1'-0"



9 S501 SECTION AT RTU
3/4" = 1'-0"

MISHRA ARCHITECTURE PLLC
6800 S Creek Rd, Charlotte, NC 28277
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MEP:
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REVISIONS		
No.	Date	Description

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Roof Framing Sections and Details

Phase
Construction Documents

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Wright - Gibson - Patton
STRUCTURAL ENGINEERING
11220 Elm Lane, Suite 201
Charlotte, North Carolina 28277
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JOB NUMBER: 128-14

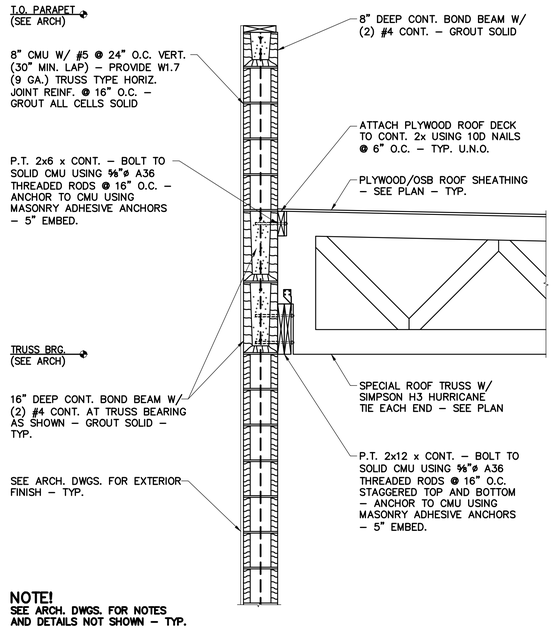
WESLEY T. PATTON REGISTERED PROFESSIONAL ENGINEER 12766 STATE OF MISSISSIPPI
02-27-15

Project No.	14-081
Prepared by	AEB
Checked by	HLW
Date	Feb. 27, 2015

Sheet No. S501

Review

Holiday Inn Express & Suites



NOTE!
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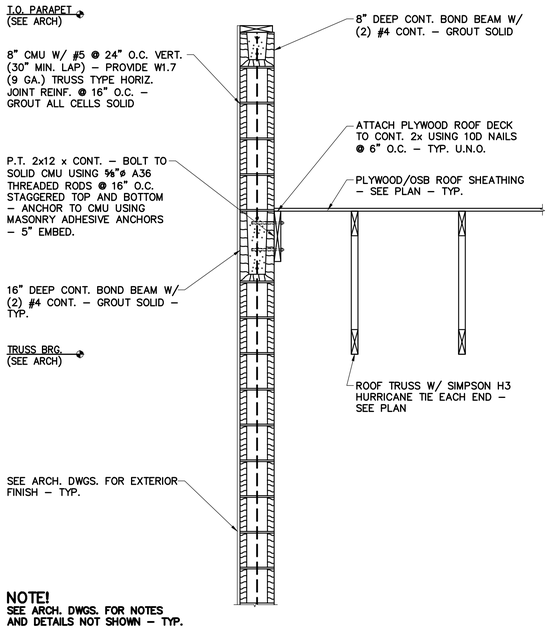
1 S502 SECTION AT LOW PARAPET
3/4" = 1'–0"



NOTE!
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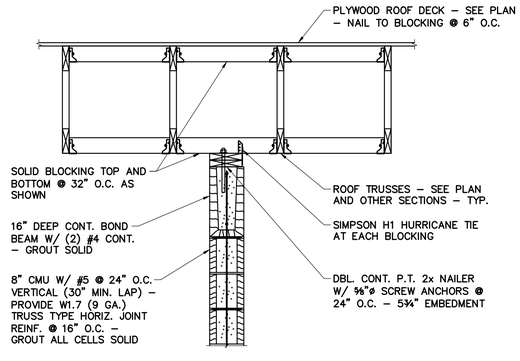
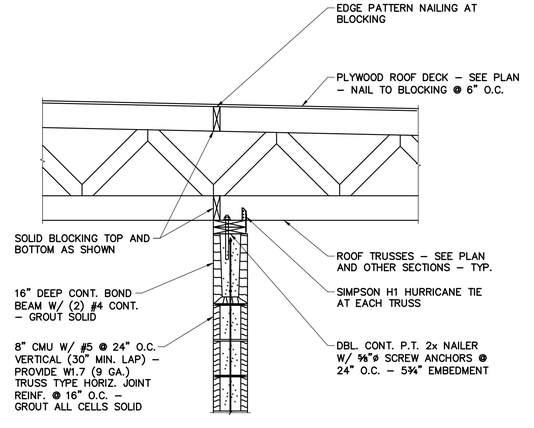
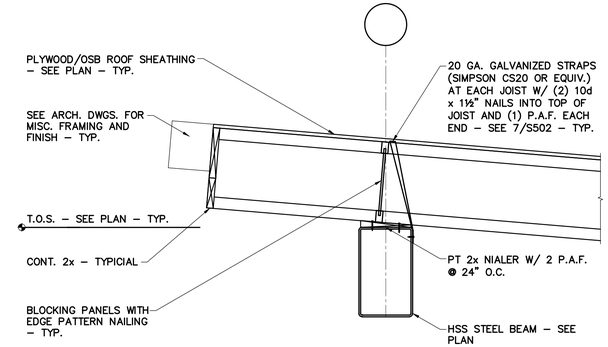
2 S502 SECTION AT LOW PARAPET
3/4" = 1'–0"



3 S502 SECTION AT SHEAR WALL
3/4" = 1'–0"



4 S502 SECTION AT SHEAR WALL
3/4" = 1'–0"



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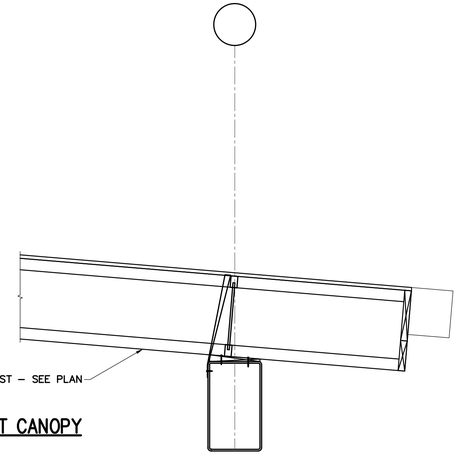

5 S502 SECTION AT CANOPY
3/4" = 1'–0"

NOTE!
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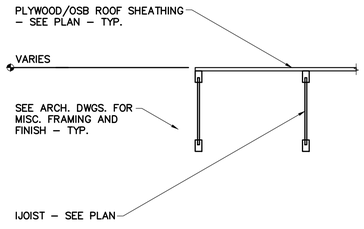
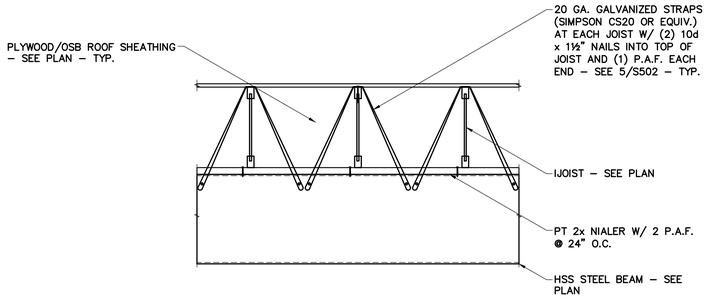


6 S502 SECTION AT CANOPY
3/4" = 1'–0"



7 S502 SECTION AT CANOPY
3/4" = 1'–0"

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02-27-15

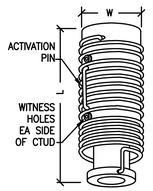
Project No.	14-081	Sheet No.
Prepared by	AEB	S502
Checked by	HLW	
Date	Feb. 27, 2015	

Review

Holiday Inn Express & Suites

SEE S0.1 FOR NOTES

1 GENERAL NOTES AND CONDITIONS OF USE



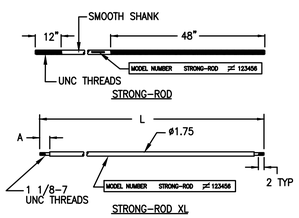
CTUD

MODEL NO.	THREADED ROD SIZE (IN)	W (IN)	L (IN)	COMPENSATION (IN)
ATS-CTUD55	5/8-5/8	1 7/8	5	1
ATS-CTUD65	3/4-5/8	2	5 1/2	
ATS-CTUD66	3/4-3/4	2	5 1/2	
ATS-CTUD75	7/8-5/8	2	5 1/2	
ATS-CTUD76	7/8-3/4	2	5 1/2	
ATS-CTUD77	7/8-7/8	2	5 1/2	
ATS-CTUD87	1-7/8	2 1/2	6 1/8	
ATS-CTUD88	1-1	2 1/2	6 1/8	
ATS-CTUD97	1 1/8-7/8	2 1/2	6 1/8	
ATS-CTUD98	1 1/8-1	2 1/2	6 1/8	
ATS-CTUD99	1 1/8-1 1/8	2 1/2	6 1/8	

INSTALLATION
1. THREAD THE CTUD ONTO THE THREADED ROD BELOW, POSITIONING IT WITH ACTIVATION PIN FACING OUT.
2. THREAD THE ROD ABOVE INTO THE CTUD. RODS ARE INSTALLED CORRECTLY WHEN VISIBLE THROUGH THE WITNESS HOLES. DO NOT REMOVE ACTIVATION PIN UNTIL THE ISOLATOR NUT (IN) IS INSTALLED AT LEVEL ABOVE.
3. SECURE ROD AT LEVEL ABOVE WITH BEARING PLATE AND ISOLATOR NUT. ATTACH ISOLATOR NUT TO SOLE PLATE WITH PROVIDED SCREW.
4. REMOVE ACTIVATION PIN AFTER LEVEL ABOVE IS SECURED WITH ISOLATOR NUT.
5. THE CTUD MAY BE INSTALLED IN EITHER DIRECTION.

2 COUPLING TAKE UP DEVICE (CTUD)

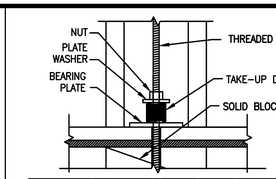
ROD DIA. IN.	FULL THREAD MODEL NO.	STRONG-ROD MODEL NO.
1/2	R4/ATR½	–
5/8	R5/ATR⅝	–
3/4	R6/ATR¾	–
7/8	R7/ATR⅞	–
1	R8/ATR1	–
1 1/8	R9/ATR1 ⅛	–
1 1/4	R10/ATR1 ¼	–
1 3/8	R11	–
1 1/2	R12	–
1 3/4	R14	–
2	R16	–
5/8	HSR5	SR5H
3/4	HSR6	SR6H
7/8	HSR7	SR7H
1	HSR8	SR8H
1 1/8	HSR9	SR9H
1 1/4	HSR10	SR10H
1 3/8	HSR11	–
1 1/2	HSR12	–
1 3/4	HSR14	–
2	HSR16	–
1 1/8	HSSR9H150	SR9H150
1 1/4	HSSR10H150	SR10H150



STRONG-ROD XL MODEL NO.	ROD DIA. IN.	A	L	COLOR CODE
SR9H/14-5	1 3/4-1 1/8	6"	6'-0"	ORANGE
SR9H/14-7	1 3/4-1 1/8	2 1/2"	7'-5"	
SR9H150/14-7	1 3/4-1 1/8	2 1/2"	7'-5"	

NOTES
1. FULLY THREADED AND STRONG-ROD IS UNCOATED OR PLAIN BLACK STEEL.
2. STRONG-ROD MODEL DESIGNATION: THE NUMBER FOLLOWING ATS-SR(#) REPRESENTS THE ROD DIAMETER IN 1/8" (i.e. ATS-SR5H IS A 5/8" DIAMETER HIGH STRENGTH ROD).
3. STRONG-ROD XL ARE 1 3/4" DIA WITH 1 1/8" THREADED ENDS AND ARE USED TO REDUCE ELONGATION.

3 ROD



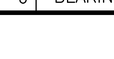
MODEL NO.	MAXIMUM THREADED ROD SIZE (IN)	W (IN)	L (IN)	COMPENSATION (IN)
ATUD5	5/8	1 3/8	1 7/8	3/4
ATUD6-2	3/4	1 3/4	3 1/8	2
ATUD9	1 1/8	2 1/8	2 1/4	1
TUD9	1 1/8	2 1/8	2 1/4	1
ATUD9-2	1 1/8	2 1/8	3 7/8	2
TUD10	1 1/4	2 3/8	2 1/4	1
ATUD14	1 3/4	2 7/8	2 1/4	3/4
RTUD3	3/8	1 7/8	15/16	NO LIMIT
RTUD4	1/2	1 7/8	15/16	NO LIMIT

NOTES
1. CODE APPROVALS: ICC-ES ESR 2320; LA RR25643

INSTALLATION (TUD OR ATUD)
1. PLACE TAKE-UP DEVICE OVER ROD FROM LEVEL BELOW ONTO APPROPRIATE BEARING PLATE.
2. INSTALL PLATE WASHER ON TOP OF TUD OR ATUD, AND SECURE THE NUT ON TOP BY FINGER TIGHTENING PLUS AN ADDITIONAL 1/2 TO 1/3 TURN WITH WRENCH.
3. REMOVE ACTIVATION PIN.

INSTALLATION (RTUD)
1. RTUD MUST BE INSTALLED ON TOP OF BPRTUD BEARING PLATE AND FASTENED THROUGH THE BEARING PLATE TO WOOD PLATES WITH (2)8dX 1 ½ MIN NAILS OR (2) #9X1 ½ STRONG-DRIVE® SD SCREWS

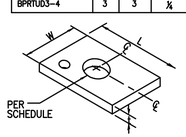
4 TAKE UP DEVICE (TUD)


ISOLATOR NUT

MODEL NO.	ROD DIA. (IN)	WASHER O.D. (IN)
ATS-IN5KT	5/8	3 1/8
ATS-IN6KT	3/4	
ATS-IN7KT	7/8	
ATS-IN8KT	1	
ATS-IN9KT	1 1/8	

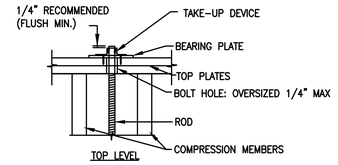
5 ISOLATOR NUT DETAIL

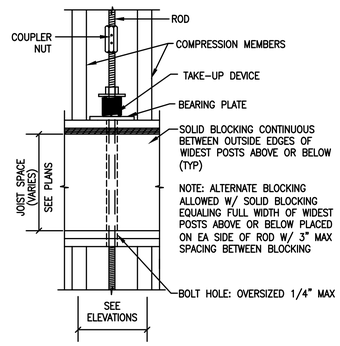
MODEL	ATS PLATE DIMENSIONS W (IN)	L (IN)	t (IN)	D hole (IN)	COMPATIBLE TAKE-UP DEVICE SERIES
ATS-BP5-3x3.5	3	3 ½	⅜	1/16	CTUD
ATS-BP5-3x5.5	3	5 ½	⅜	1/16	
ATS-BP5-5x5.5	5	5 ½	¾	1/16	
ATS-BP6-3x5.5	3	5 ½	⅜	13/16	
ATS-BP6-5x5.5	5	5 ½	⅜	13/16	
ATS-BP7-3x5.5	3	5 ½	⅜	15/16	
ATS-BP7-5x5.5	5	5 ½	⅜	15/16	
ATS-BP8-3x5.5	3	5 ½	½	1 1/16	
ATS-BP8-5x5.5	5	5 ½	½	1 1/16	
ATS-BP9-3x5.5	3	5 ½	⅜	1 3/16	
ATS-BP9-5x5.5	5	5 ½	⅜	1 3/16	
ATS-BP10-3x5.5	3	5 ½	½	1 5/16	
ATS-BP10-5x5.5	5	5 ½	½	1 5/16	
ATS-BP10-3x9	3	9	1	1 5/16	
ATS-BP10-3x12	3	12	1 ½	1 5/16	
ATS-BP10-3x15	3	15	1 ¾	1 5/16	
ATS-BP10-5x9	5	9	1	1 5/16	
ATS-BP10-5x12	5	12	1 ½	1 5/16	
BPRTUD3-4	3	3	¼	9/16	RTUD

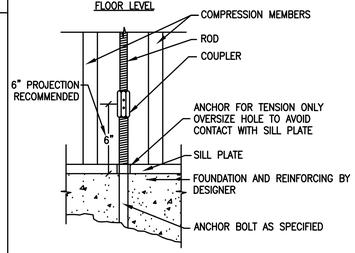


6 BEARING PLATES FOR CTUD

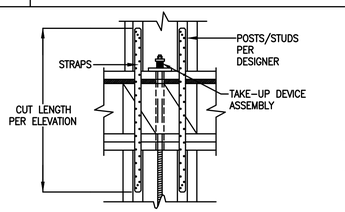
NOTE: NO SPLICE IN TOP PLATE IS PERMITTED WITHIN 8" OF ATS ROD







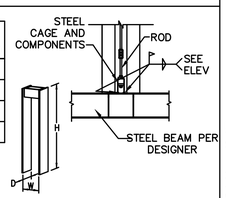
7 INSTALLATION DETAILS



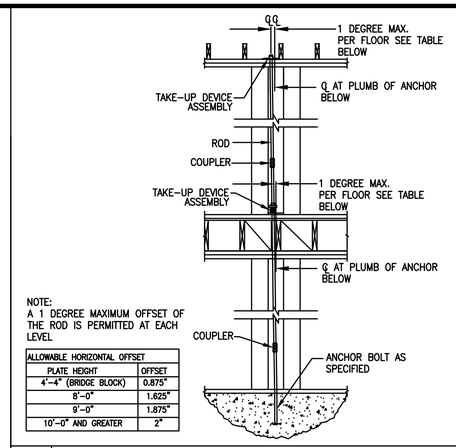
1. VERTICAL STRAPS ARE SOLD SEPARATELY, UNO.
2. WHEN STRAPS OCCUR, REFER TO THE STRUCTURAL DRAWINGS AND INSTALLATION DETAILS.
3. REFER TO THE APPLICABLE CODE FOR MINIMUM NAIL EDGE AND END DISTANCES.

8 ALT. STRAP TRANSITION

MODEL	D (IN)	H (IN)	W (IN)
ATS-1/2-2B	2	16	3
ATS-1/2-2C	2	16	3
ATS-1/2-2D	3	16	3
ATS-1/2-2E	3	16	3



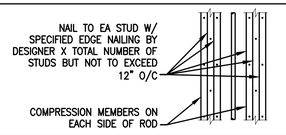
9 WELDABLE CAGES



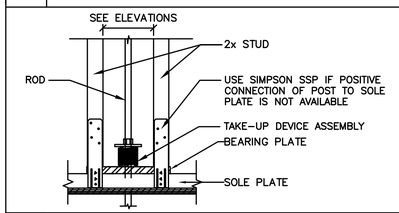
NOTE:
A 1 DEGREE MAXIMUM OFFSET OF THE ROD IS PERMITTED AT EACH LEVEL

ALLOWABLE HORIZONTAL OFFSET	
PLATE HEIGHT	OFFSET
4'-4" (BRIDGE BLOCK)	0.875"
8'-0"	1.625"
9'-0"	1.875"
10'-0" AND GREATER	2"

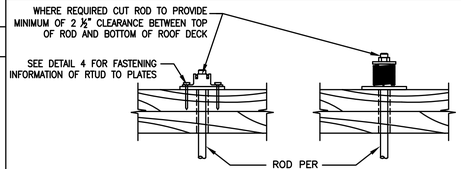
10 ALLOWABLE ROD OFFSET



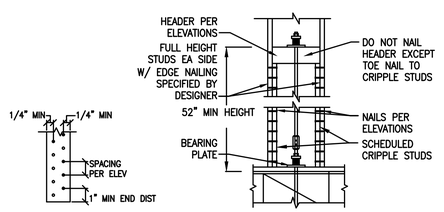
11 SHEARWALL EDGE NAILING @ BUILT UP POSTS



12 OPTIONAL SSP WHEN STUD IS OVER PLATE



13 TAKE-UP DEVICE INSTALLATION AT TOP LEVEL



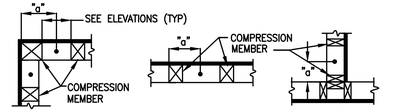
BRIDGE BLOCK INSTALLATION DETAILS

BRIDGE BLOCK NOTES
1. CRIPPLE STUDS SHALL BE 2X MEMBERS ONLY AND BE FIELD NAILED.
2. CRIPPLE STUDS SHALL BE NAILED TO FULL HEIGHT STUDS PER ELEVATION DRAWINGS AND DETAILS ABOVE. IF (2) CRIPPLE STUDS ARE REQUIRED ON EACH SIDE OF ROD, NAIL CRIPPLE ADJACENT TO FULL HEIGHT STUD WITH SCHEDULED NAILS AND NAIL INNER CRIPPLE WITH ½ OF THE SCHEDULED NAILS.
3. CRIPPLE STUDS MAY BE NAILED TO FULL HEIGHT STUDS FROM EITHER SIDE.
4. IF 6" HEADER IS SOLID SAWN, IT MUST BE A MINIMUM #1 GRADE. SCL IS ALSO ACCEPTABLE.
5. FOR SDS SCREW OPTIONS, CONTACT SIMPSON STRONG-TIE.

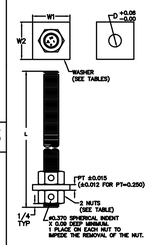
14 ALT. BRIDGE BLOCK DETAIL

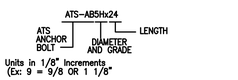
ANCHOR BOLT LAYOUT		
POST SIZE	"a" W/ 6" SPACING BETWEEN STUDS	"a" W/ 9" SPACING BETWEEN STUDS
2x4 or 2x6	4 1/2"	6"
3x4 or 3x6	5 1/2"	7"
2-2x4 or 2-2x6	6"	7 1/2"
2-3x4 or 2-3x6	8"	9 1/2"
4x6 or 6x6	8 1/2"	10"
4x8	10 1/4"	11 3/4"
6x8	10 1/2"	12"
4x10	12 1/4"	13 3/4"
6x10	12 1/2"	14"

1. COMPRESSION MEMBERS DO NOT INCLUDE TRIMMERS.
2. LOCATE ANCHOR BOLT W/ NARROWEST COMPRESSION MEMBER.
3. WHEN SHEARWALLS MEET IN A CORNER AND SHARE A COMMON CORNER POST, THE POST SHALL BE THE LARGER OF THAT SPECIFIED FOR EACH INDIVIDUAL SHEARWALL.



15 ANCHOR BOLT LAYOUT

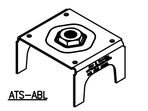




MODEL	ROD DIA (IN)	NUTS	WASHER SIZE OR COMPONENT PT	W1	W2	D
ATS-AB4 PAB4	1/2	ATS-N4	0.250	1.25	1.25	0.562
ATS-AB5 PAB5	5/8	ATS-N5	0.375	1.50	1.50	0.688
ATS-AB6 PAB6	3/4	ATS-N6	0.375	2.00	2.00	0.812
ATS-AB7 PAB7	7/8	ATS-N7	0.375	2.25	2.25	0.938
ATS-AB8 PAB8	1	ATS-N8	0.375	2.50	2.50	1.062
ATS-AB9 PAB9	1 1/8	ATS-N9	0.375	2.75	2.75	1.188
ATS-AB10 PAB10	1 1/4	ATS-N10	0.500	3.00	3.00	1.312

ATS-AB NOTES
1. ATS ANCHOR BOLTS AVAILABLE IN 5/8" THRU 1 1/4" DIA IN STANDARD AND HIGH STRENGTH.
2. ANCHOR BOLT SIZE AND LENGTH BY DESIGNER.
3. LENGTHS AVAILABLE IN 18", 24", 30", AND 36".

16 ANCHOR BOLTS

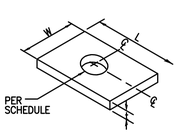

ATS-ABL

MODEL NO.	ANCHOR BOLT DIAMETER
ABL4-1	1/2"
ABL5-1	5/8"
ABL6-1	3/4"
ABL7-1	7/8"
ABL8-1	1"
ABL9-1	1 1/8"
ABL10-1	1 1/4"

ATS-ABL NOTES AND INSTALLATION
1. MODELS SHOWN PROVIDE 1" STANDOFF.
2. MODELS WITH OST NUTS AVAILABLE FOR USE WITH HDG RODS.
3. ATTACH ABL TO FRAMEWORK WITH (2) MIN NAILS OR SCREWS.
4. ATTACH THE UPPER NUT AND PLATE WASHER TO THREADED ROD.
5. THREAD THE ROD INTO THE ABL UNTIL IT BOTTOMS OUT ON THE PLATE WASHER AND IS FULLY ENGAGED WITH BOTTOM NUT.

17 ANCHOR BOLT LOCATOR

MODEL	ATS PLATE DIMENSIONS W (IN)	L (IN)	t (IN)	D hole (IN)	COMPATIBLE TAKE-UP DEVICE SERIES
PLS-3X3.5	3	3 ½	⅜	1/16	ATUD/TUD
PLS-3X5.5	3	5 ½	⅜	1/16	
PLS-3X5.5	3	3 ½	⅜	1/16	
PLS-3X5.5	3	5 ½	⅜	1/16	
PLS-3X5.5	3	5 ½	½	1 1/16	
PLS-3X8.5	3	8 ½	½	1 1/16	
PLS-3X8.5	3	8 ½	¾	1 1/16	
PLS-3X12	3	12	1 ¼	1 1/16	
PLS-3X12	3	12	1 ½	1 1/16	
PLS-3X15	3	15	1 ½	1 1/16	
PLS-3X15	3	15	1 ¾	1 1/16	
PLS-3X15	3	15	1 ½	1 1/16	
PLS-5X5.5	5	5 ½	½	1 1/16	
PLS-5X5.5	5	5 ½	¾	1 1/16	
PLS-5X8.5	5	8 ½	½	1 1/16	
PLS-5X8.5	5	8 ½	¾	1 1/16	
PLS-5X12	5	12	1 ¼	1 1/16	
PLS-5X12	5	12	1 ½	1 1/16	
BPRTUD3-4	3	3	¼	9/16	RTUD



18 BEARING PLATES FOR ATUD/TUD AND RTUD

REVISIONS		
No.	Date	Description

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KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Simpson ATS Details

Phase
Construction Documents

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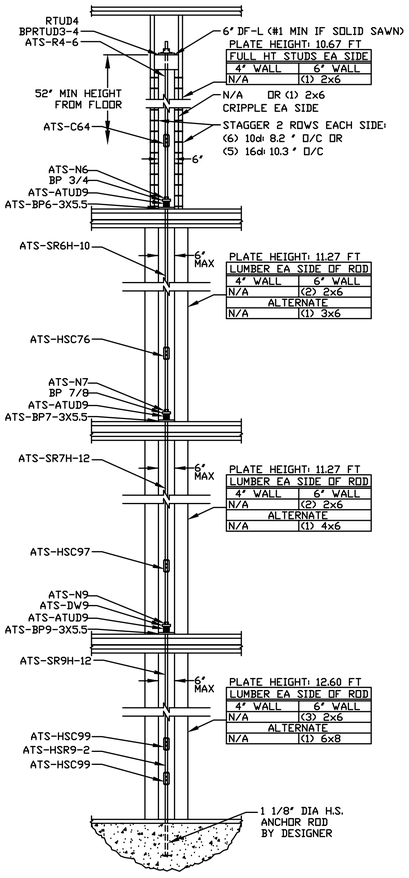
JOB NUMBER: 128-14

HEDLEY T. PATTON REGISTERED PROFESSIONAL ENGINEER 12766 STATE OF MISSISSIPPI
02-27-15

Project No.	14-081	Sheet No.
Prepared by	AEB	S601
Checked by	HLW	
Date	Feb. 27, 2015	

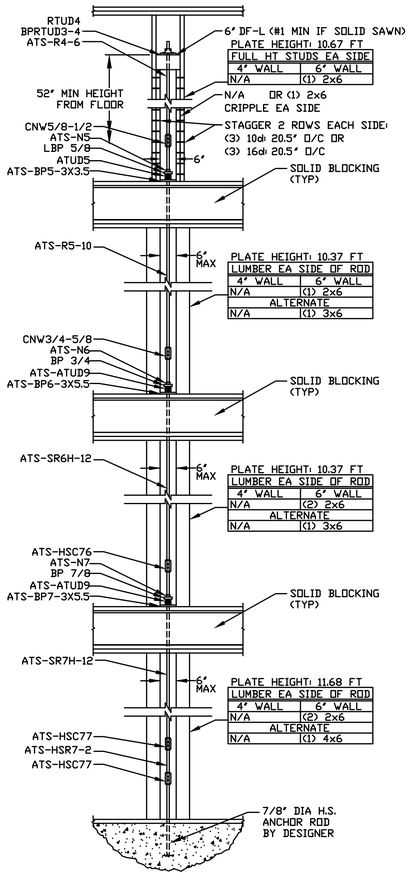
Review

Holiday Inn Express & Suites



SEE ALTERNATE BRIDGE BLOCK DETAIL
ON S601 FOR ADDITIONAL INFORMATION

1 ATS ELEVATION – SW1



SEE ALTERNATE BRIDGE BLOCK DETAIL
ON S601 FOR ADDITIONAL INFORMATION

2 ATS ELEVATION – SW2

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REVISIONS		
No.	Date	Description

KEY PLAN

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JOB NUMBER: 128-14

WESLEY T. PATTON
REGISTERED PROFESSIONAL ENGINEER
12746
STATE OF MISSISSIPPI
02-27-15

Project No.	14-081
Prepared by	AEB
Checked by	HLW
Date	Feb. 27, 2015
Sheet No.	S602

Review

Holiday Inn Express & Suites

MAKE-UP AIR ROOFTOP UNIT SCHEDULE

MARK	MANUF.	HEAT OPTIONS	NOMINAL TONNAGE	MODEL NO.	COOLING COIL TC(MBH)	SHC(MBH)	EAT(DB/WB)	LAT(DB/WB)	DESIGN TEMP	HEATING (MBH) INPUT	OUTPUT	DESIGN TEMP	REHEAT REQUIRED	BURNER TYPE	OUTSIDE AIR (CFM)	FAN CFM	ESP	HP	DRIVE	EER	VOLTS/ø	MCA	MOCP	REMARKS
MUA-1	GREENHECK	MODUL.	10	RV-35	118.0	49.2	85.8/77.3	61.1/58.0	72°F	150	120	17°F	42.3 MBH	MODULATING	1500	1500	1.00"	1.0	VFD	13.05	208/3	51.0	60	① ② ③

1) PROVIDE COMPLETE MAKEUP AIR PACKAGED ROOFTOP UNIT WITH MODULATING GAS HEAT, MODULATING HOT GAS REHEAT, DIGITAL SCROLL COMPRESSORS (2), UNIT DISCONNECT, REMOTE DDC INTERFACE, DDC CONTROLS, LOW-LEAKAGE MOTORIZED SUPPLY DAMPER, ROOFCURB, MERV-8 FILTERS WITH ADDITIONAL MERV-13 FILTERS, MICROPROCESSOR ROOM DEHUMIDISTAT, HEAD PRESSURE CONTROLLER, COMPRESSOR SAFETIES, PHASE AND BROWN OUT PROTECTION.

2) UNIT WEIGHT NOT TO EXCEED 2300 LBS, R410A REFRIGERANT, WEATHERHOOD WITH SCREEN, AMCA AND ARI RATING CLASSIFIED, 2-INCH DOUBLE WALL CONSTRUCTION, FACTORY MOUNTED VFD, PREMIUM MOTOR CONTROL CENTER.

3) COMPRESSOR OPERATION IS CONTROLLED TO MAINTAIN SUPPLY TEMPERATURE SETPOINT. MECHANICAL COOLING WILL BE LOCKED OUT WHEN THE OA TEMPERATURE IS <55 DEG/F – 2 DEG/F HYSTERESIS (ADJUSTABLE), COMPRESSORS WILL MODULATE DOWN TO 10% OF UNITS TOTAL CAPACITY TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT, HEATING SETPOINT WILL BE LOCKED OUT AT 70 DEG/F – 2 DEG/F HYSTERESIS (ADJUSTABLE), DDC CONTROLLER SHALL CONTAIN THE FOLLOWING ALARMS: BUILDING FREEZE PROTECTION (ADJUSTABLE), DIRTY FILTER ALARM, SUPPLY AIR ALARM, DX ALARM, TEMPERATURE SENSOR ALARM, HUMDITY SENSOR ALARM.

MINI-SPLIT UNIT

GENERAL DATA SYMBOL	MITSUBISHI MODEL	ROOM SERVING	DIMENSIONS (LxWxH)	FAN CFM	COOLING TOTAL (MBH)	HEATING TOTAL (MBH)	ELECTRICAL VOLTAGE (V)	MCA	MOCP	GENERAL DATA SYMBOL	MITSUBISHI MODEL	LOCATION	DIMENSIONS (LxWxH)	EFFICIENCY SEER	ELECTRICAL VOLTAGE (V)	MCA	MOCP	AMBIENT ENTERING AIR (F)
SSI-1	MSZ-D18NA	PBX	44"x11"x14"	500	18.2	N/A	208/1	1	15	SSO-1	MUZ-D18NA	OUTSIDE	34"x13"x34"	14.5	208/1	14	15	95
SSI-2	MSZ-D18NA	EL. EQUIP	44"x11"x14"	500	18.2	N/A	208/1	1	15	SSO-2	MUZ-D18NA	OUTSIDE	34"x13"x34"	14.5	208/1	14	15	95
SSI-3	MSZ-D18NA	SERVER	44"x11"x14"	500	18.2	N/A	208/1	1	15	SSO-3	MUZ-D18NA	OUTSIDE	34"x13"x34"	14.5	208/1	14	15	95

NOTES: PROVIDE CONDENSATE PUMP FOR INDOOR UNIT.
LOW AMBIENT CONTROLS, LONG LINE-SETS ARE REQUIRED.
PROVIDE AUXILLARY DRAIN PAN W/ FLOAT SWITCH FOR EMERGENCY SHUT DOWN. PER IMC 307.2.3

ELECTRIC WALL HEATER SCHEDULE

EWH-1 MARKEL E3322TTD-RP
1 KW; 120V-1ø; 3413 BTUH; 175 CFM; WITH:
BUILT-IN DISCONNECT SWITCH AND THERMOSTAT,
PENCIL-PROOF LOUVERS, CABINET FOR SURFACE MOUNTING.

POOL DEHUMIDIFICATION - CONDENSING UNIT

MARK	MODEL	ELECTRICAL V/C/P	MCA (A)	MOP (A)	TOTAL UNIT EER	UNIT CAPACITY (MBH)	COMPRESSORS TYPE	REFRIGERANT	STAGES	TOTAL UNIT WEIGHT (Lb)
PDCU-1	SERESCO NC-B-1V	208/60/3	7	15	13.0	–	SCROLL	R410A	1	130

NOTES

1. PROVIDE CONTROL SYSTEM DDC INTERFACE TO POOL DEHUMIDIFICATION SYSTEM
2. PROVIDE LIQUID LINE SOLENOID
3. PROVIDE ANTI-SHORT CYCLE TIMER
4. PROVIDE INTERCONNECTING REFRIGERANT PIPING TO POOL DEHUMIDIFICATION SYSTEM
5. PROVIDE DISCONNECT
6. PROVIDE MOUNTING PLATFORM

POOL DEHUMIDFICATION UNIT SCHEDULE

UNIT TAG	SERVED	MANUF. MODEL	FAN CFM	FAN HP	O.A. CFM	E.S.P.	COOLING CAPACITY (BTUH)	MOISTURE REMOVAL (LBS/HR)	COMP. (EA.) NO.	COMP. (EA.) RLA	ELECT. HEAT (KW)	FAN ELECTRICAL DATA VOLTAGE (V/PH)	MCA	MOCP (A)
PDU-1	POOL	SERESCO NE-004-PV-L-A2NT1182	1800	2.5	520	1.0"	53.3	23.7	1	17.6	12.5	208/3ø	71	80

NOTES:

1. INDOOR DESIGN CONDITIONS BASED ON 82°F/50% R.H.
2. PROVIDE UNIT WITH: THERMOSTAT WITH LOCKABLE COVER, FILTER, U.L. LABEL, IONIZATION TYPE SMOKE DETECTOR INSTALLED IN THE RETURN DUCT, ELECTRIC HEATER (UNIT MOUNTED), POOL WATER HEATING, SINGLE POINT ELECTRICAL CONNECTION.
3. AN IONIZATION TYPE SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN THE RETURN DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED TO SHUT DOWN THE UNIT BY THE ELECTRICAL CONTRACTOR.

MECHANICAL LEGEND

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- (T) WALL MOUNTED THERMOSTAT
- (U) ¾" DOOR UNDERCUT
- MANUAL VOLUME DAMPER
- BI-POLAR IONIZATION DEVICE (DUCT MOUNTED)
- TURNING VANES
- (SD) DUCT MOUNTED SMOKE DETECTOR
- (M) MOTOR OPERATED DAMPER

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	TRANE AIR HANDLER MODEL NO.	NOMINAL TONS	LOCATION	TOTAL CFM	OA CFM	MAX. FAN HP	ESP	MBH TOT. COOL	MBH SEN. COOL	MIN. SEER	HEAT HEAT PUMP	HEAT KW	VOLTS /PHASE	MCA	MOCP	TAG	TRANE HEAT PUMP MODEL NO.	VOLTS /PHASE	MCA	MOCP	NOTES
AH-1	GAT2A0B42	3.5	SEE PLAN	1400	65	1/2	0.40"	41.3	31.0	13.5	40.5	7.7	208/1ø	38.0	40	HP-1	4TWR3042	208/1ø	26.0	45	1 THRU 7
AH-2	GAF2A0A18	1.5	SEE PLAN	600	80	1/3	0.40"	18.6	13.8	14.0	16.3	4.8	208/1ø	24.0	25	HP-2	4TWR3018	208/1ø	9.0	15	1 THRU 7
AH-3	GAT2A0B60	5.0	SEE PLAN	2000	270	1.0	0.40"	59.0	44.7	13.0	58.6	9.6	208/1ø	53.0	60	HP-3	4TWR3060	208/1ø	34.0	60	1 THRU 7
AH-4	GAF2A0A18	1.5	SEE PLAN	600	55	1/3	0.40"	18.6	13.8	14.0	16.3	4.8	208/1ø	24.0	25	HP-4	4TWR3018	208/1ø	9.0	15	1 THRU 7
AH-5	GAF2A0A30	2.5	SEE PLAN	1000	155	1/3	0.40"	30.4	22.7	13.5	28.6	7.7	208/1ø	38.0	40	HP-5	4TWR3030	208/1ø	15.0	25	1 THRU 7
AH-6	GAF2A0A36	3.0	SEE PLAN	1200	195	1/2	0.40"	35.3	26.1	13.0	34.6	7.7	208/1ø	38.0	40	HP-6	4TWR3036	208/1ø	18.0	30	1 THRU 7
AH-7	GAT2A0B42	3.5	SEE PLAN	1400	230	1/2	0.40"	41.3	31.0	13.5	40.5	7.7	208/1ø	38.0	40	HP-7	4TWR3042	208/1ø	26.0	45	1 THRU 7
AH-8	GAF2A0A30	2.5	SEE PLAN	1000	150	1/3	0.40"	30.4	22.7	13.5	28.6	7.7	208/1ø	38.0	40	HP-8	4TWR3030	208/1ø	15.0	25	1 THRU 7

NOTE:
1 COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.
2 REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP.TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS 100'
3 PROVIDE SINGLE POINT ELECTRICAL CONNECTION
4 PROVIDE HONEYWELL "VISION-PRO 8000" THERMOSTAT/HUMIDISTAT
5 PROVIDE NEW FILTERS IN UNIT WHEN BUILDING IS TURNED OVER TO OWNER/TENANT.
6 FACTORY INSTALLED RAWAL APR VALVE, AS WELL AS EQUIPMENT AND CONTROLS AS REQUIRED TO MEET SEQUENCE OF OPERATION. PROVIDE WITH 3 SHUT-OFF VALVES AS RECOMMENDED BY RAWAL.
7 HEAT PUMP TO BE INSTALLED LEVEL ON MANUFACTURERS PREFORMED PAD.

AIR DISTRIBUTION SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	PATTERN	BLADE/SLOT SPACING	DAMPER	MATERIAL	SERVICE	MANUFACTURER & MODEL NO.	NOTES
A	0-100	6"ø	12"x12"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
B	0-100	6"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
C	105-175	8"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
D	180-270	10"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
E	275-390	12"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
F	120-250	8"ø	48"x4"	SLOT	(1)1½" SLOT	YES	STEEL	SUPPLY	PRICE AS215	1-5
G	260-380	10"ø	48"x4"	SLOT	(1)2½" SLOT	YES	STEEL	SUPPLY	PRICE AS225	1-5
H	385-450	12"ø	48"x4"	SLOT	(1)3" SLOT	YES	STEEL	SUPPLY	PRICE AS230	1-5
J	0-175	8"ø	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
K	180-270	10"ø	24"x24"	PERFORATED	–	NO	STEEL	RET/TRANS	PRICE PDDR	1-4
L	395-500	12"x12"	24"x24"	PERFORATED	–	NO	STEEL	RET/EXH	PRICE PDDR	1-4
M	505-885	16"x16"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
N	890-1,850	22"x22"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
P	250	48"x5"	48"x5"	SLOT	(3)½" SLOTS	NO	STEEL	RETURN	PRICE SDR50	1-5
R	120-250	8"ø	48"x4"	SLOT	(1)1½" SLOT	YES	STEEL	ALUM	PRICE AS215	1-5
S	260-380	10"ø	48"x4"	SLOT	(1)2½" SLOT	YES	STEEL	ALUM	PRICE AS225	1-5
T	1280	28"x20"	30"x22"	LOUVERED	–	NO	ALUM	RETURN	PRICE 635	1-4
V	100	6"x5"	8"x7"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE 540	1-4

NOTES:
1. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR. COORDINATE WITH ARCHITECT.
2. SQUARE TO ROUND TRANSITIONS PROVIDED BY AIR DISTRIBUTION SUPPLIER.
3. FURNISH WITH FRAME SUITABLE FOR INSTALLATION REQUIRED.
4. DIFFUSERS AT RATED CEILINGS SHALL BE ALL STEEL CONSTRUCTION WITH RADIATION DAMPER. PROVIDE RADIATION INSULATION BLANKET ON TOP SIDE OF DIFFUSER AS REQUIRED TO MAINTAIN RATING OF CEILING.
5. ALL LINEAR DIFFUSERS SHALL BE FURNISHED WITH PLENUM AND END CAPS.

FAN SCHEDULE

SYMBOL	# OF FANS	TYPE	CFM	APPROX. S.P.	DRIVE	RPM	ELECTRICAL DATA WATTS	H.P.	VOLTAGE	MANUFACTURER GREENHECK	CONTROL	ACCESSORIES
EF-1	95	EXHAUST	50	0.2	DIRECT	596	45	–	120V/1ø	SP-B70	D	1 2 5 6 13
EF-2	2	EXHAUST	120	0.2	DIRECT	824	150	–	120V/1ø	SP-B150	C	1 2 5 6 8 13
EF-3	1	EXHAUST	100	0.25	DIRECT	950	100	–	120V/1ø	SP-B110	A	1 2 5 6 8 13
EF-4	2	EXHAUST	100	0.25	DIRECT	950	100	–	120V/1ø	SP-B110	C	1 2 5 6 8 13
EF-5	2	EXHAUST	300	0.2	DIRECT	1124	150	–	120V/1ø	SP-B390	D	1 2 5 6 8 13
EF-6	5	EXHAUST	200	0.25	DIRECT	908	83	–	120V/1ø	SP-A250	E	1 2 5 6 8 13
EF-7	1	EXHAUST	240	0.25	DIRECT	1004	108	–	120V/1ø	SP-A290	A	1 2 5 6 8 13
EF-8	1	EXHAUST	100	0.25	DIRECT	950	100	–	120V/1ø	SP-B110	F	1 2 5 6 8 13
EF-9	1	EXHAUST	250	0.25	DIRECT	1032	108	–	120V/1ø	SP-A290	G	1 2 5 6 8 13
EF-10	1	EXHAUST	50	0.2	DIRECT	596	45	–	120V/1ø	SP-B70	E	1 2 5 6 8 13
EF-11	1	EXHAUST	520	0.2	DIRECT	837	350	–	120V/1ø	SP-A700	E	1 2 5 6 8 13
EF-12	1	EXHAUST	100	0.25	DIRECT	950	100	–	120V/1ø	SP-B110	D	1 2 5 6 8 13

ACCESSORIES
1: DISCONNECT BY E.C.
2: BACKDRAFT DAMPER
3: PREFAB. ROOF CURB
4: BIRDSCREEN
5: SPEED CONTROLLER
6: HANGING BRACKETS WITH VIBRATION ISOLATION
7: DISCHARGE HOOD
8: WL, WALL LOUVER DISCHARGE
9: MFG ROOF CAP
10: REMOTE MTD. SPEED CONTROLLER
11: MOTOR SIDE FAN GUARD
12: PROVIDE EXTENDED ROOF CURB
13: EXHAUST GRILLE
14: UL 762

CONTROL:
A: WALL MOUNTED SWITCH
B: WALL MOUNTED PUSH BUTTON SWITCH
C: WALL MOUNTED THERMOSTAT
D: INTERLOCK WITH ROOM LIGHT SWITCH
E: CONTINUOUS OPERATION
F: INTERLOCK WITH AH-1
G: INTERLOCK WITH AH-4

NOTES:
1. ALL FANS SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILLARY CONTACTS AS REQUIRED.
4. BACKDRAFT DAMPER ON ROOF SUPPLY FANS SHALL BE MOTORIZED.
5. WHEN A SPEED CONTROLLER IS REQUIRED AND MOUNTED TO EXHAUST FAN, SPEED SHALL BE ADJUSTED TO PROVIDE LISTED AIRFLOW PRIOR TO CEILING BEING INSTALLED.

PTAC UNITS

UNIT TAG	AMANA MODEL	FAN CFM	OSA CFM	ESP (WG)	EER	COOLING (MBH)	ELECT. HEAT (KW)	HEATING (MBH)	VOLTAGE (V)	MCA (A)	MOCP (A)	WEIGHTS (LBS)
PTAC-A	PTH073G	340	50	0.4	11.7	7.6	2.1	6.8	208V/1ø	14.1	15	102

NOTES:
1) PROVIDE SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S.
2) SHALL COMPLY W/ THE LOCAL 2012 ENERGY CODE
3) PROVIDE W/ REMOTE THERMOSTAT.
4) PROVIDE W/ MATCHING WALL SLEEVE..

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REVISIONS No.	Date	Description
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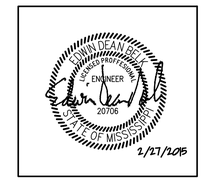


KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
MECHANICAL LEGEND & SCHEDULES

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	CRM	M001
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

HVAC GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.

2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.

3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.

4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.

5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.

6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR OPEN AREA DIMENSIONS. CONTRACTOR SHALL ADJUST DUCT SIZE WHEN USING INTERNAL INSULATION IN LIEU OF EXTERNAL WRAP.

7. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).

8. SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.

9. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.

10. INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT. ANY THERMOSTAT LOCATED ON AN EXTERIOR WALL SHALL BE PROVIDED WITH AN INSULATED BASE.

11. LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).

12. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.

13. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.

14. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED. CONCEALED SHEET METAL DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH DUCT LINER (R-VALUE = 5). THE FIRST 15' FROM THE AIR HANDLER SHALL BE INTERNALLY LINED. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. ALL SPIRAL DUCTWORK SHALL BE DOUBLE WALL. IF CONTRACTOR USES INTERNAL INSULATION, SINGLE WALL DUCTWORK MAY BE USED INSTEAD.

15. THE EXTERNAL STATIC PRESSURE FOR ALL FANS, HVAC UNITS, ETC IS BASED ON DUCT ROUTING AS INDICATED ON PLANS. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS IN THE FIELD AS AIR QUANTITIES MAY BE AFFECTED.

16. CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. BALANCE REPORT SHALL INCLUDE: SUPPLY & RETURN AIR FLOWS, ALL STATIC PRESSURES, SUPPLY & RETURN AIR TEMPERATURES AS WELL AS OUTDOOR AIR TEMPS AT TIME OF TEST. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.

17. AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE UL ASSEMBLY.

18. PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.

19. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.

20. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED.

21. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQ'D BY APPLICABLE CODES FOR THE LOCALE OF THIS PROJECT.

22. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAX 5' FLEX PER RUNOUT.

23. THE MECHANICAL CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTROL LINES FROM THE CONDENSER TO THE AIR HANDLING UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.

24. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO SPLIT SYSTEM UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.

25. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.

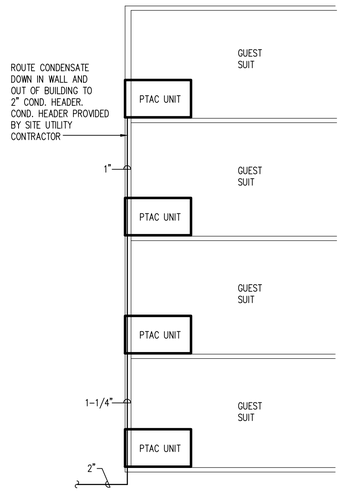
26. REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES.

27. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.

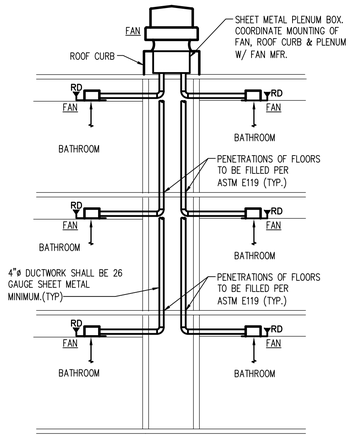
28. MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.

29. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SHOP DRAWINGS ARE PROVIDED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE OF ANY PIECE OF EQUIPMENT, DUCTWORK OR DEVICE.

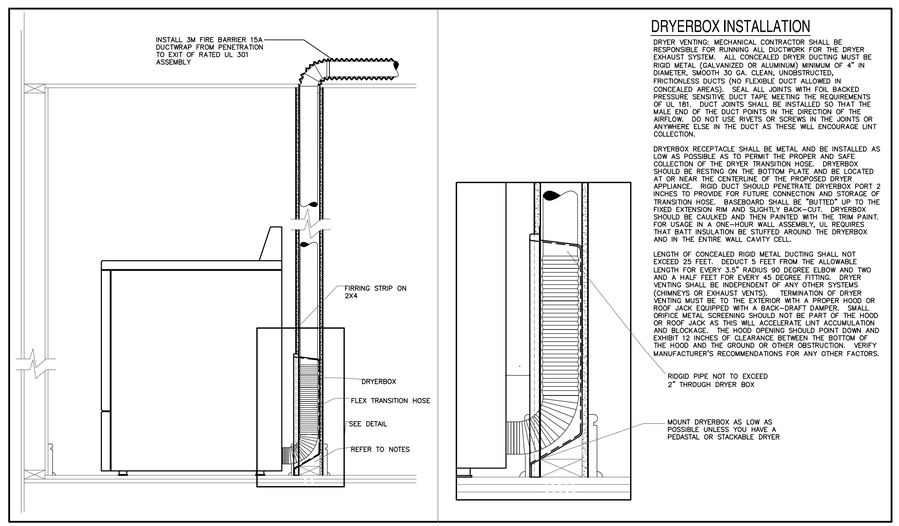
30. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD A MINIMUM OF TEN BUSINESS DAYS IN ADVANCE FOR COMPLETION OF FIELD INSPECTION FOR APPENDIX 5 OF THE 2012 NC ENERGY CODE, IF ENFORCED.



1 M002 **CONDENSATE RISER** N.T.S.



2 M002 **GUESTROOM EXHAUST RISER** N.T.S.



DRYERBOX INSTALLATION

DRYER VENTING: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING ALL DUCTWORK FOR THE DRYER EXHAUST SYSTEM. ALL CONCEALED DRYER DUCTING MUST BE RIGID METAL (GALVANIZED OR ALUMINUM) MINIMUM OF 4" IN DIAMETER, SMOOTH 30 GA. CLEAN, UNOBSTRUCTED, FRICTIONLESS DUCTS (NO FLEXIBLE DUCT ALLOWED IN CONCEALED AREAS). SEAL ALL JOINTS WITH FOIL BACKED PRESSURE SENSITIVE DUCT TAPE MEETING THE REQUIREMENTS OF UL 181. DUCT JOINTS SHALL BE INSTALLED SO THAT THE MALE END OF THE DUCT POINTS IN THE DIRECTION OF THE AIRFLOW. DO NOT USE RIVETS OR SCREWS IN THE JOINTS OR ANYWHERE ELSE IN THE DUCT AS THESE WILL ENCOURAGE LINT COLLECTION.

DRYERBOX RECEPTACLE SHALL BE METAL AND BE INSTALLED AS LOW AS POSSIBLE AS TO PERMIT THE PROPER AND SAFE COLLECTION OF THE DRYER TRANSITION HOSE. DRYERBOX SHOULD BE RESTING ON THE BOTTOM PLATE AND BE LOCATED AT OR NEAR THE CENTERLINE OF THE PROPOSED DRYER APPLIANCE. RIGID DUCT SHOULD PENETRATE DRYERBOX PORT 2 INCHES TO PROVIDE FOR FUTURE CONNECTION AND STORAGE OF TRANSITION HOSE. BASEBOARD SHALL BE "BUTTED" UP TO THE FIXED EXTENSION RIM AND SLIGHTLY BACK-CUT. DRYERBOX SHOULD BE CAULKED AND THEN PAINTED WITH THE TRIM PAINT. FOR USAGE IN A ONE-HOUR WALL ASSEMBLY, UL REQUIRES THAT BATT INSULATION BE STUFFED AROUND THE DRYERBOX AND IN THE ENTIRE WALL CAVITY CELL.

LENGTH OF CONCEALED RIGID METAL DUCTING SHALL NOT EXCEED 25 FEET. DEDUCT 5 FEET FROM THE ALLOWABLE LENGTH FOR EVERY 3.5" RADIUS 90 DEGREE ELBOW AND TWO AND A HALF FEET FOR EVERY 45 DEGREE FITTING. DRYER VENTING SHALL BE INDEPENDENT OF ANY OTHER SYSTEMS (CHIMNEYS OR EXHAUST VENTS). TERMINATION OF DRYER VENTING MUST BE TO THE EXTERIOR WITH A PROPER HOOD OR ROOF JACK EQUIPPED WITH A BACK-DRAFT DAMPER. SMALL ORIFICE METAL SCREENING SHOULD NOT BE PART OF THE HOOD OR ROOF JACK AS THIS WILL ACCELERATE LINT ACCUMULATION AND BLOCKAGE. THE HOOD OPENING SHOULD POINT DOWN AND EXHIBIT 12 INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE HOOD AND THE GROUND OR OTHER OBSTRUCTION. VERIFY MANUFACTURER'S RECOMMENDATIONS FOR ANY OTHER FACTORS.

3 M002 **RESIDENTIAL DRYER VENT DETAIL** N.T.S.

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REVISIONS		
No.	Date	Description
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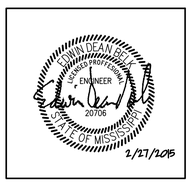


KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

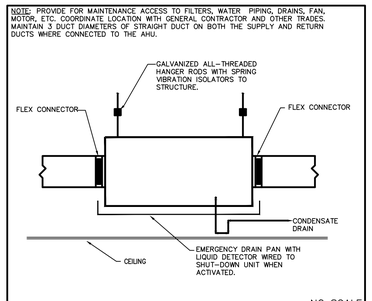
Drawing Title

MECHANICAL NOTES & DETAILS

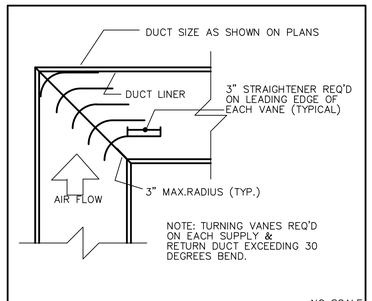
Phase
Construction Documents

Project No.	14-081	Sheet No. M002
Prepared by	CRM	
Checked by	EDB	
Date	Feb. 27, 2015	

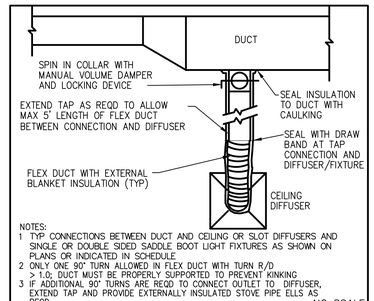
Holiday Inn Express & Suites



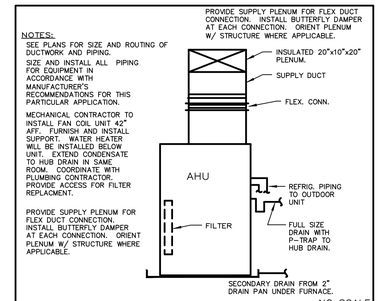
AIR HANDLING UNIT 1



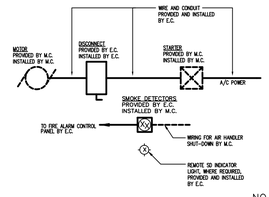
TURNING VANE DETAIL 2



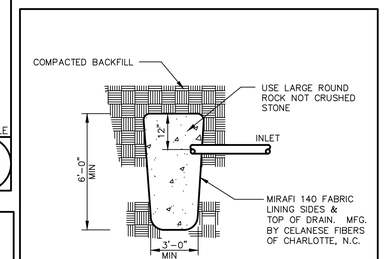
CONNECTIONS TO MAIN DUCT 3



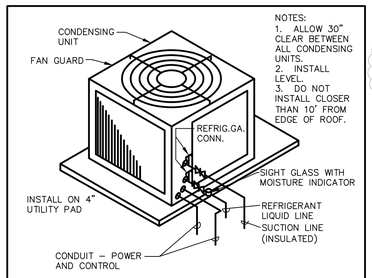
AIR HANDLING UNIT 4



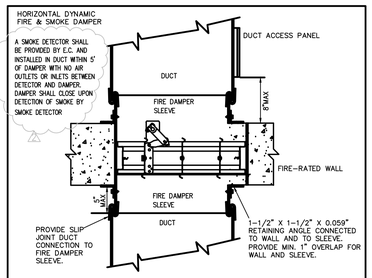
MECH-ELEC COORDINATION 5



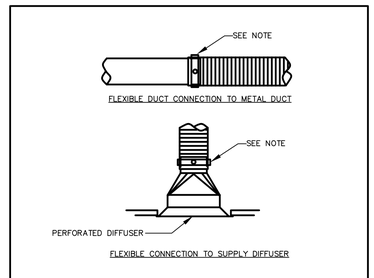
DRYWELL DETAIL 6



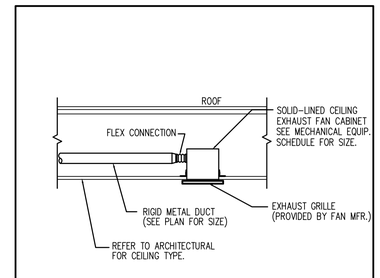
CONDENSING UNIT 7



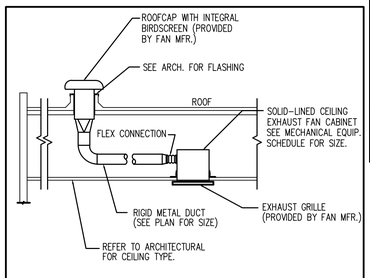
FIRE + SMOKE DAMPER TYPICAL DETAIL 8



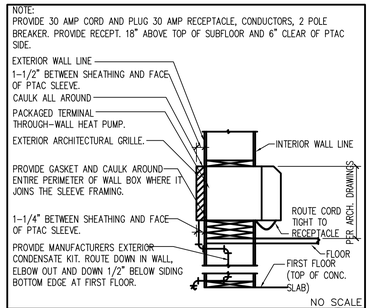
FLEX CONNECTIONS 9



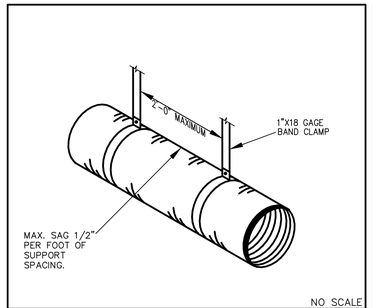
EXHAUST FAN DETAIL 10



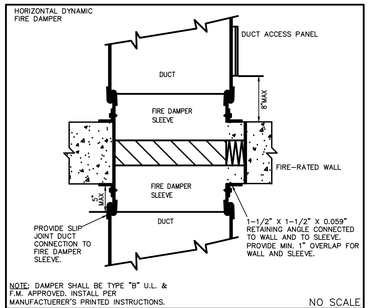
EXHAUST FAN DETAIL 11



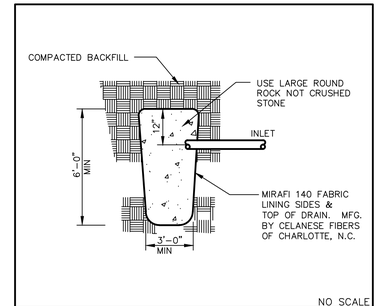
PTAC UNIT 12



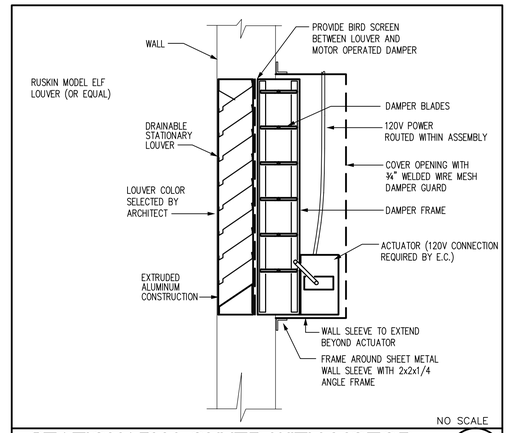
FLEXIBLE DUCT SUPPORT 13



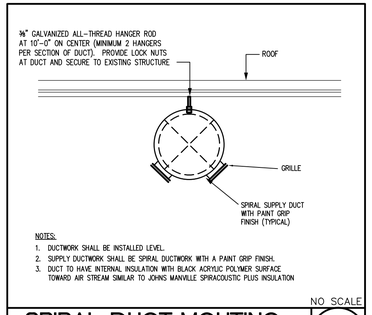
FIRE DAMPER TYPICAL DETAIL 14



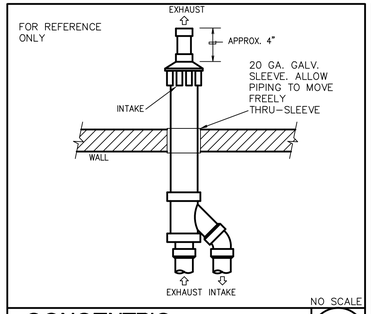
DRYWELL DETAIL 15



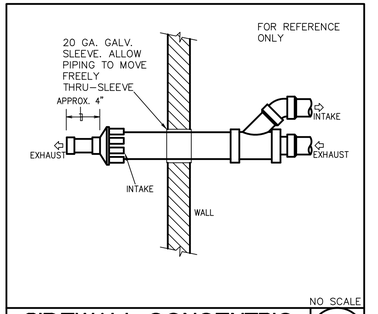
STATIONARY LOUVER WITH MOTOR OPERATED DAMPER DETAIL 20



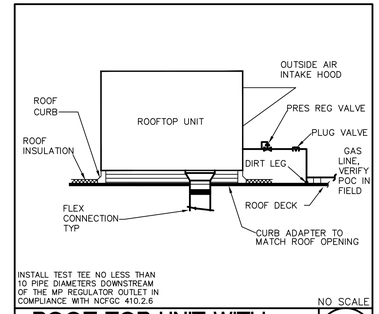
SPIRAL DUCT MOUTING DETAILS 16



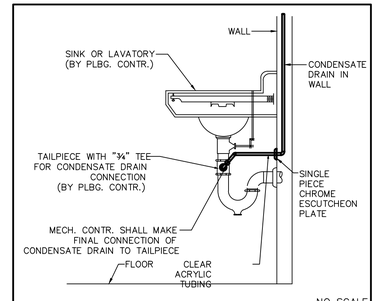
CONCENTRIC TERMINATION 17



SIDEWALL CONCENTRIC TERMINATION 18



ROOF TOP UNIT WITH GAS HEAT (AAON UNIT) 19



CONDENSATE DRAIN IN SINK CONNECTION 21

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REVISIONS		
No.	Date	Description
1		

EDWIN DEAN BURK — LICENSED PROFESSIONAL ENGINEER — 20706 — STATE OF MISSISSIPPI — 2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
MECHANICAL DETAILS

Phase
Construction Documents

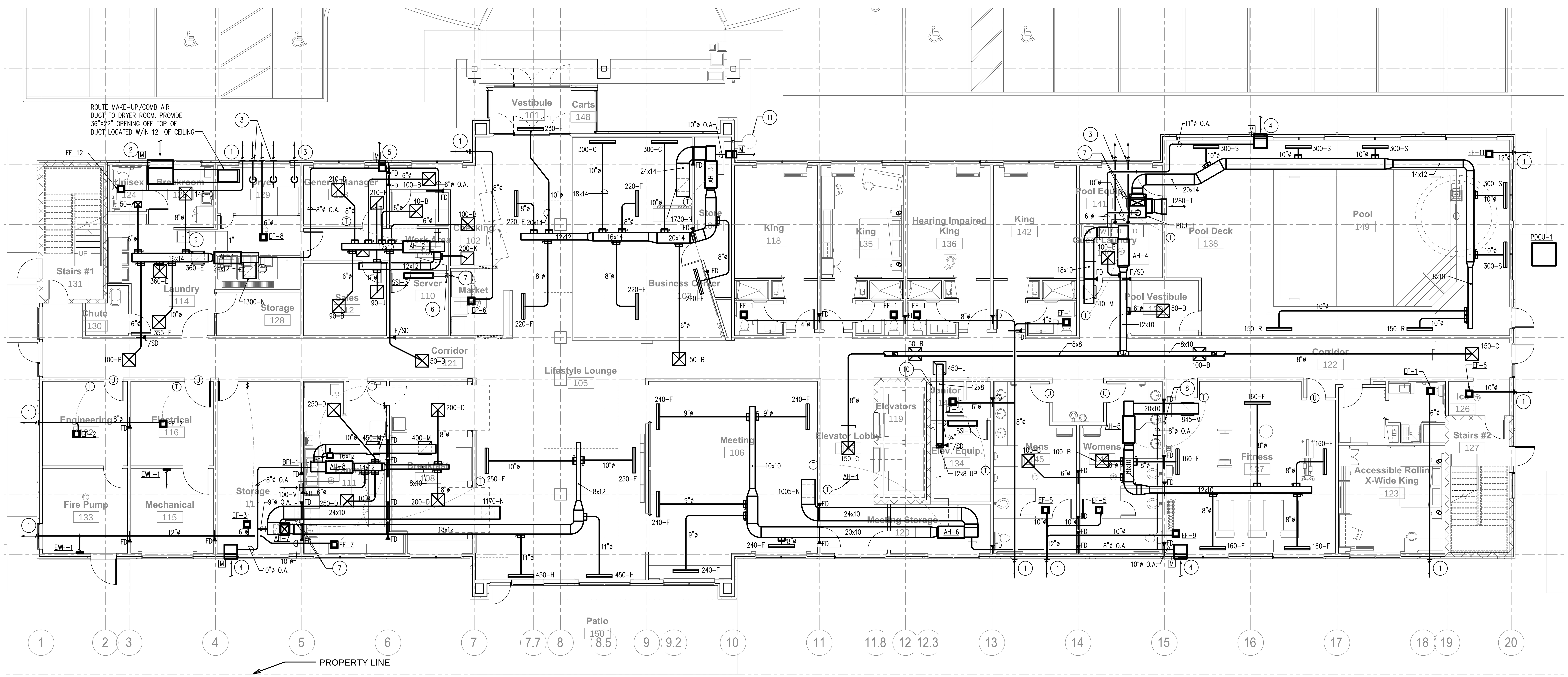
Project No.	14-081	Sheet No.	M003
Prepared by	CRM		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

MECHANICAL KEYED NOTES

1. FAN MFR. WALL CAP.
2. 48"x36" RUSKIN ELF 375 MAKE-UP/COMBUSTION AIR LOUVER W/ 48"x36"x30" FULLY INSULATED PLENUM AND MOTOR OPERATED DAMPER. DAMPER SHALL REMAIN IN CLOSED POSITION AND OPEN UP FULLY WHEN DRYERS ARE IN USE.
3. SINGLE WALL RIGID SHEET METAL DRYER VENTS, SIZED PER MANUFACTURER. VENT CAP BY M.C. VERIFY SIZE W/ DRYER MANUFACTURER.
4. 24"x12" RUSKIN ELF375 OUTSIDE AIR INTAKE LOUVER W/ 24"x12"x18" FULLY INSULATED PLENUM.
5. 12"x12" RUSKIN ELF375 OUTSIDE AIR INTAKE LOUVER W/ 12"x12"x12" FULLY INSULATED PLENUM.
6. ROUTE ¾" CONDENSATE DOWN TO FLOOR DRAIN. FLOOR DRAIN BY P.C.
7. ROUTE 1" CONDENSATE DOWN TO FLOOR DRAIN. FLOOR DRAIN BY P.C.
8. ROUTE 1" CONDENSATE DOWN IN WALL AND TIE INTO SINK TAILPIECE.
9. ROUTE 1" COND DOWN AND DUMP INTO MOP SINK.
10. ROUTE 1" & ¾" COND DOWN AT WALL DUMP INTO FLOOR SINK. FLOOR SINK BY P.C.
11. ROUTE 1" DOWN IN WALL AND OUT OF BUILDING TO CONDENSATE DRY WELL.

ALL DUCTWORK, GRILLES, DIFFUSERS, AND HANGERS IN POOL AREA TO BE OF ALUMINUM CONSTRUCTION. COORDINATE W/ ARCHITECTURAL CEILING PLAN AND STRUCTURAL BEFORE CONSTRUCTION.



MECHANICAL 1ST FLOOR PLAN
1 / M101 SCALE: 1/8" = 1'-0"

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REVISIONS

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EDWIN DEAN BELL · LICENSED PROFESSIONAL ENGINEER · 20706 · STATE OF MISSISSIPPI · 2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
MECHANICAL
1ST FLOOR PLAN

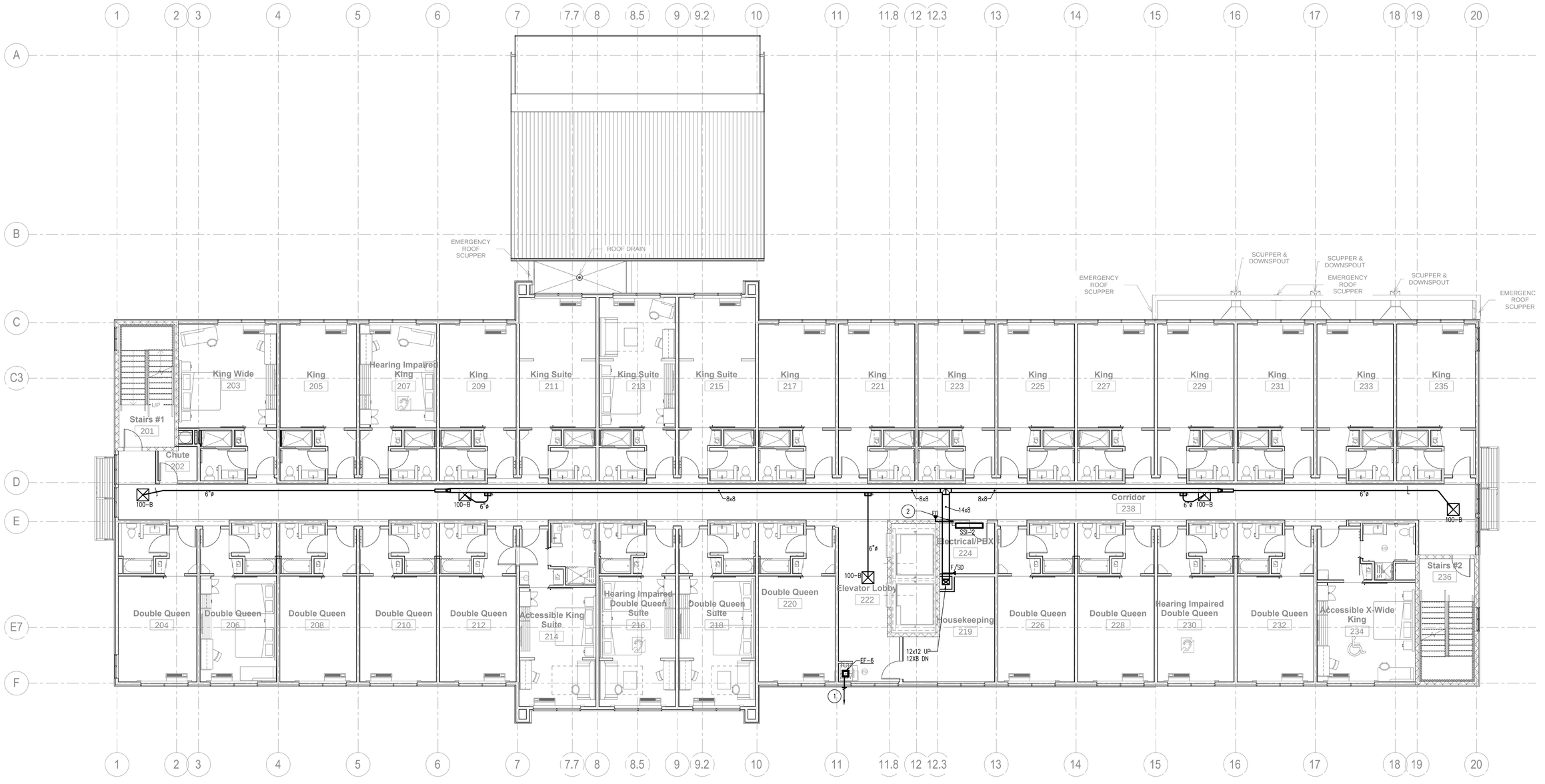
Phase
Construction Documents

Project No. 14-081		Sheet No.
Prepared by CRM		M101
Checked by EDB		
Date Feb. 27, 2015		

Holiday Inn Express & Suites

MECHANICAL KEYED NOTES

1. FAN MFR. WALL CAP.
2. ROUTE ¾" COND DOWN IN WALL TO FLOOR SINK IN JANITOR'S CLOSET ON 1ST FLOOR BELOW. FLOOR SINK BY P.C.



1 M102 MECHANICAL 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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No.	Date	Description
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EDWIN DEAN SICK — REGISTERED PROFESSIONAL ENGINEER — 20706 — STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
MECHANICAL
2ND FLOOR PLAN

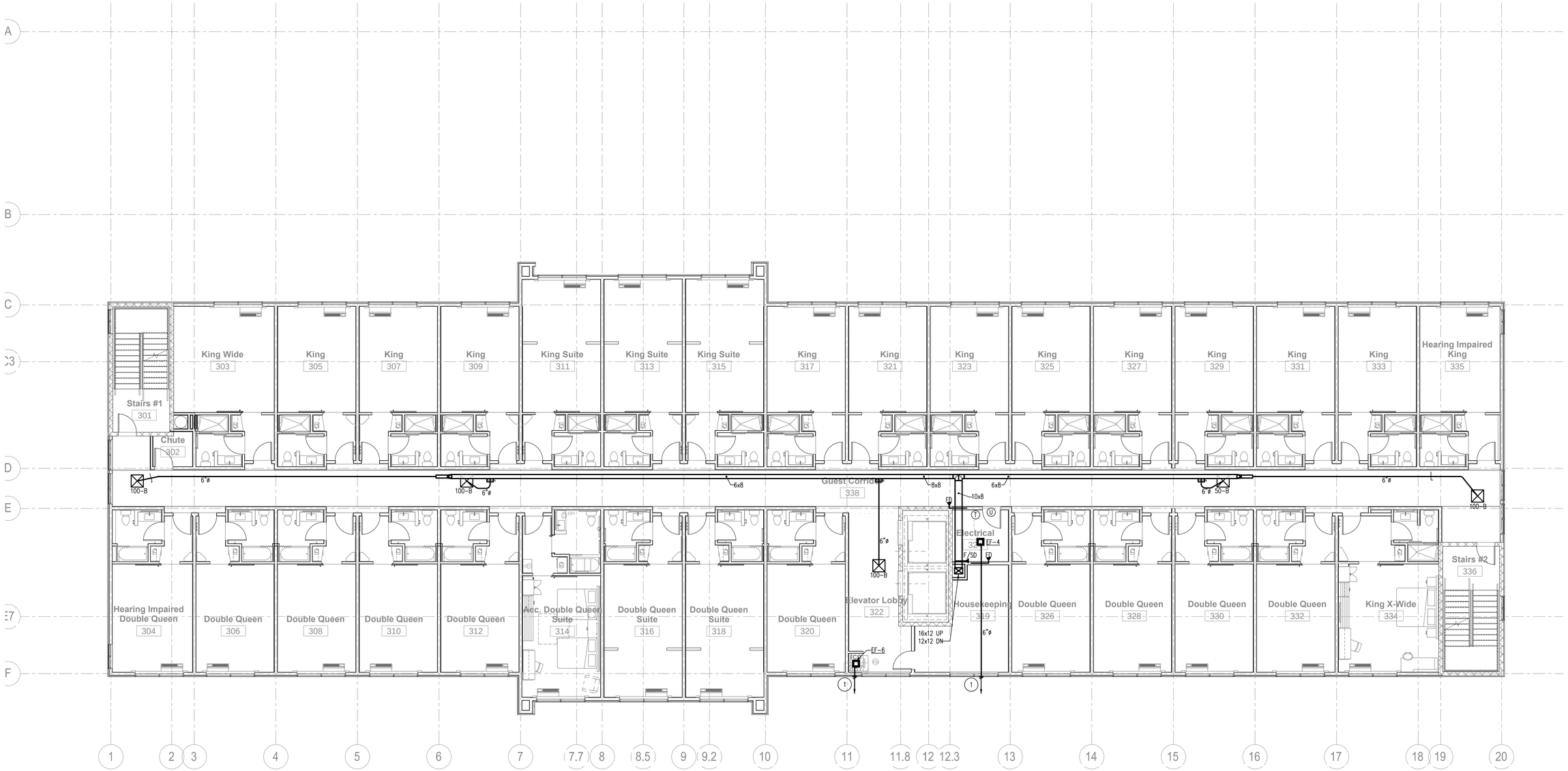
Phase
Construction Documents

Project No.	14-081
Prepared by	CRM
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	M102

Holiday Inn Express & Suites

MECHANICAL KEYED NOTES

1. FAN MFR. WALL CAP.



1 M103 MECHANICAL 3RD FLOOR PLAN

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

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No.	Date	Description
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JOHN DEAN BENCH
REGISTERED PROFESSIONAL
ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

MECHANICAL
3RD FLOOR PLAN

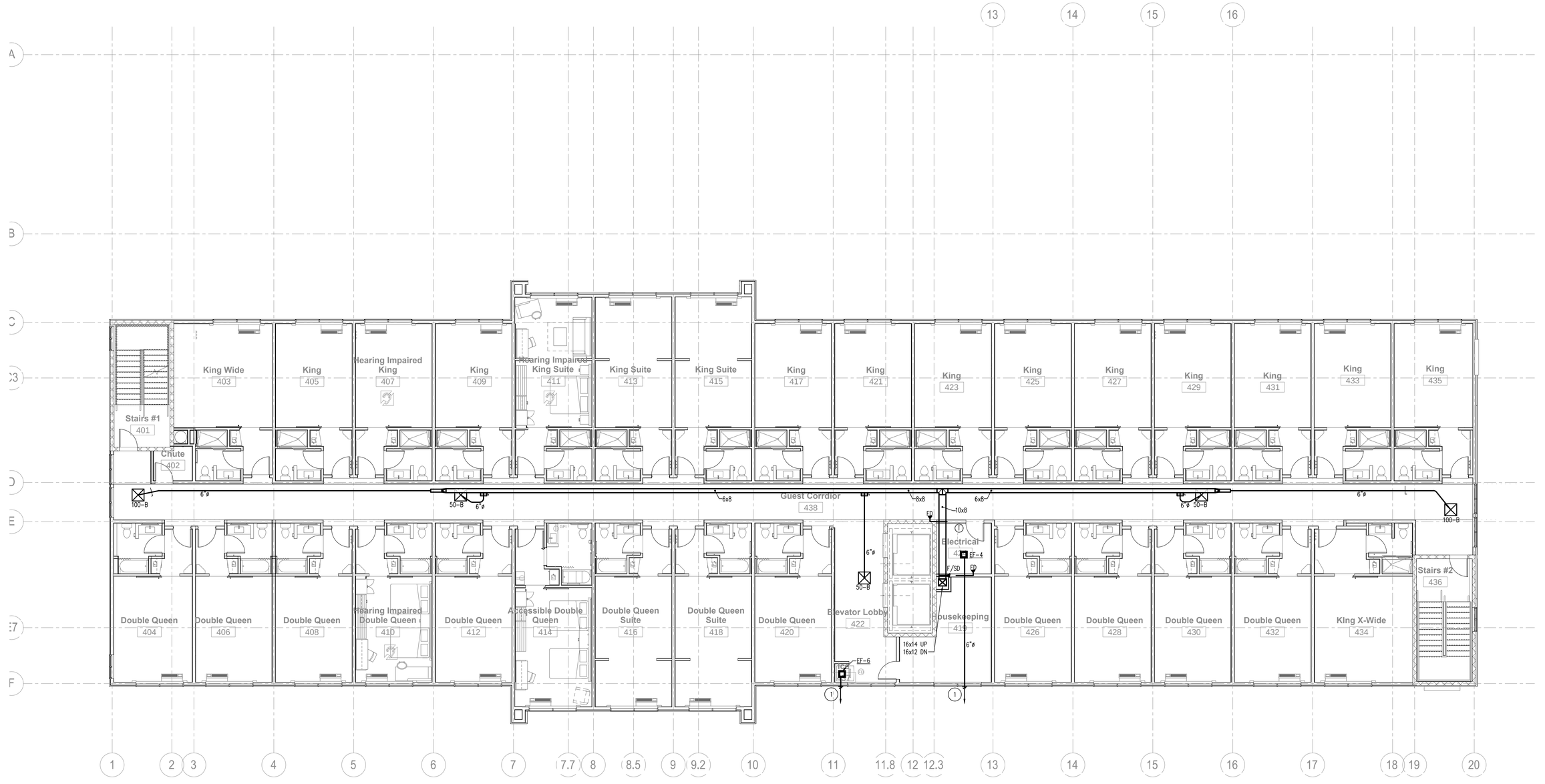
Phase
Construction Documents

Project No.	14-081	Sheet No.	M103
Prepared by	CRM		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

MECHANICAL KEYED NOTES

1	FAN MFR. WALL CAP.



1 M104 MECHANICAL 4TH FLOOR PLAN

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

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KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

MECHANICAL
4TH FLOOR PLAN

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	CRM	M104
Checked by	EDB	
Date	Feb. 27, 2015	

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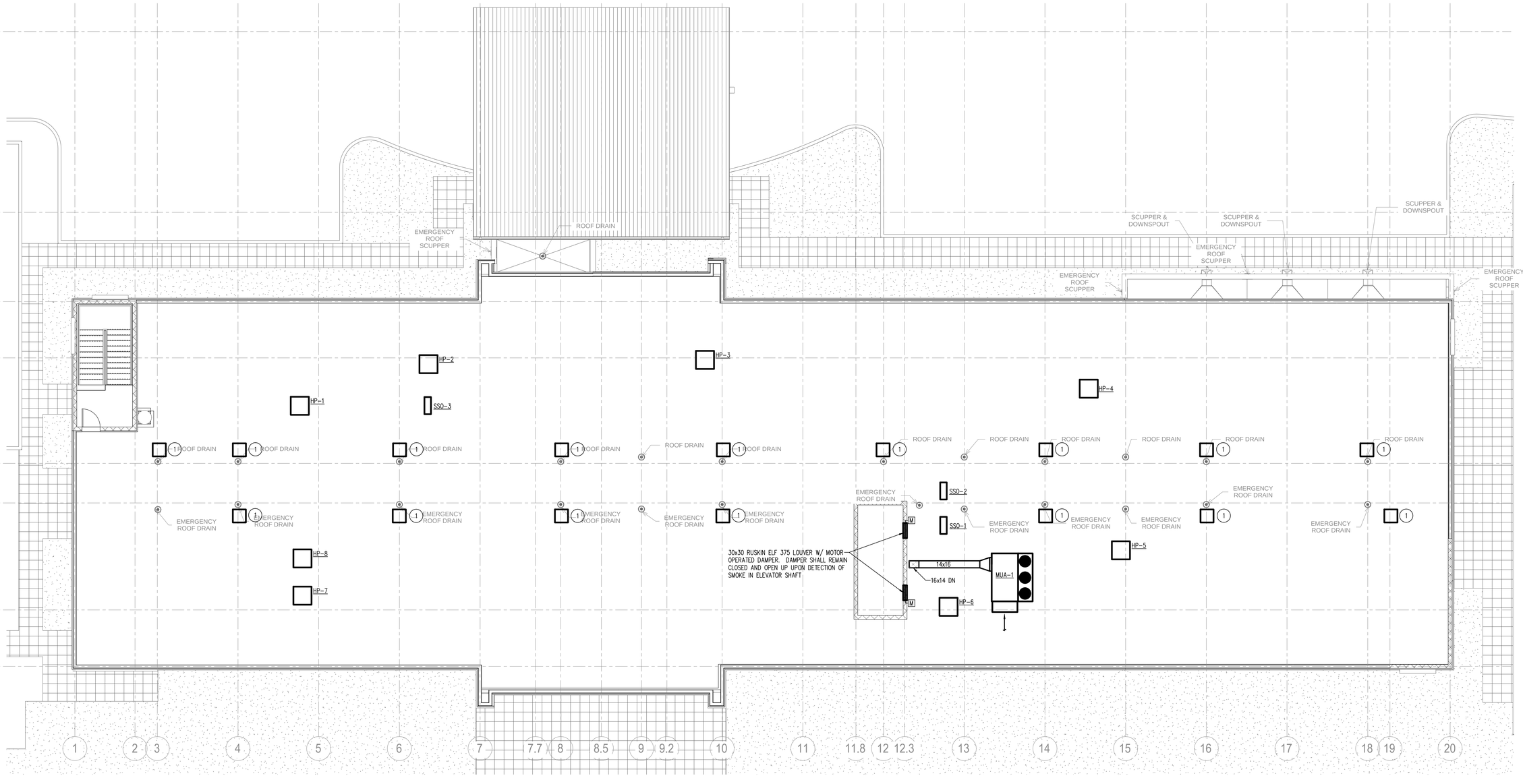
DUCTWORK EXPOSED OUTSIDE SHALL BE INSULATED WITH 2" THICK RIGID EXTERNAL FIBERGLASS INSULATION IN ADDITION TO 1" THICK DUCT LINER. COVER EXTERNAL INSULATION WITH AN ALUMINUM OUTER ENCLOSURE AND SEAL WATER-TIGHT. ENCLOSURE SHALL BE SLOPED AS TO SHED WATER.

MECHANICAL KEYED NOTES

1. GREENHCECK 26"x26" FGR GRAVITY RELIEF CAP.



1 M201 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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EDWIN DEAN BECK — REGISTERED PROFESSIONAL ENGINEER — 20706 — STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
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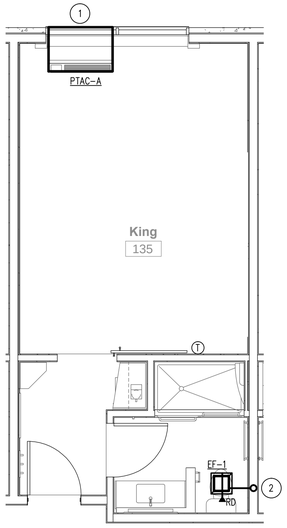
Drawing Title
MECHANICAL ROOF PLAN

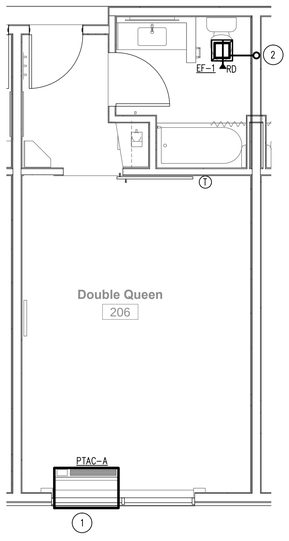
Phase
Construction Documents

Project No.	14-081
Prepared by	CRM
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	M201

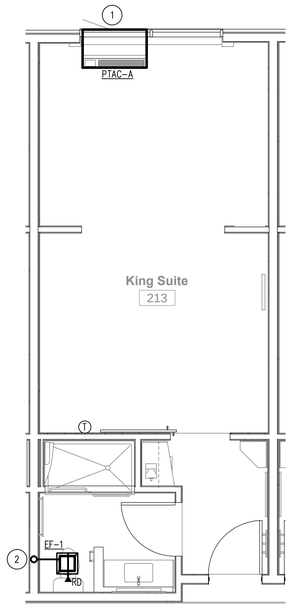
Holiday Inn Express & Suites



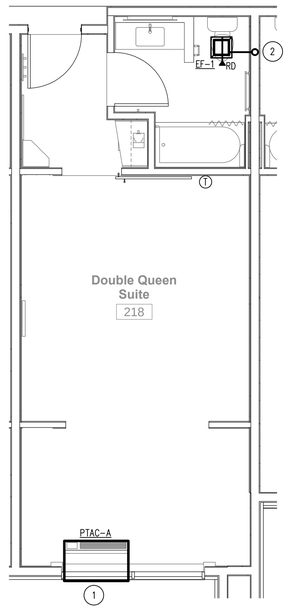
1 M301 KING
SCALE: 1/4" = 1'-0"



2 M301 DOUBLE QUEEN
SCALE: 1/4" = 1'-0"



3 M301 KING SUITE
SCALE: 1/4" = 1'-0"

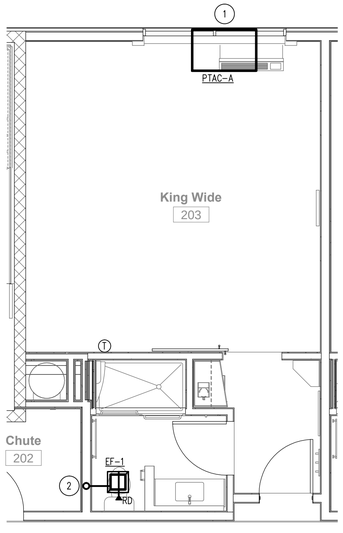


4 M301 DOUBLE QUEEN SUITE
SCALE: 1/4" = 1'-0"

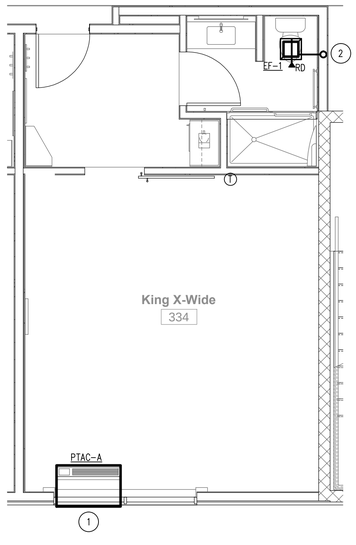
KEYED NOTES
(THIS SHEET ONLY)

1. SEE 1/M002 FOR CONDENSATE ROUTING.
2. 4" (26 GAUGE) SHEET METAL EXHAUST DUCT UP TO ROOF.
3. FAN MFR. WALL CAP.
4. ROUTE 4" EXHAUST DUCT UP THROUGH ROOF. TERMINATE AT ROOF W/ GREENHECK GRSR-6 ROOF CAP. PROVIDE W/ INSECT SCREEN AND ROOF CURB.

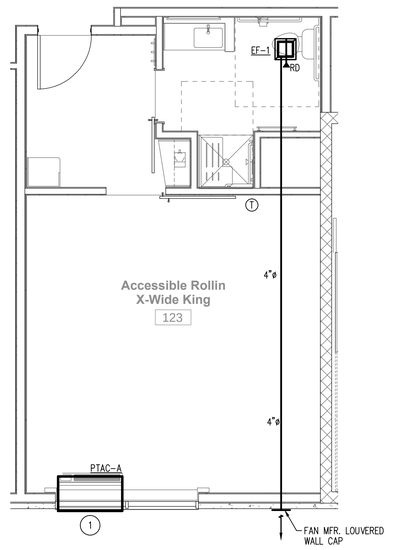
NOTE:
ALL PENETRATIONS SHALL MEET ASTME 119 STANDARDS



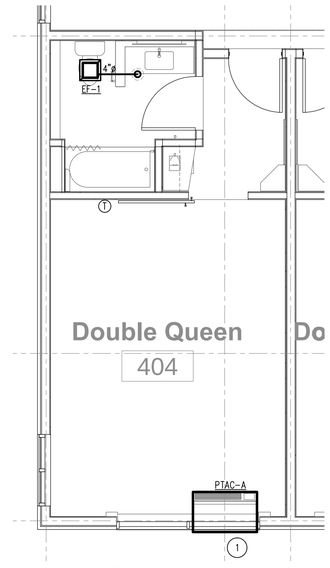
5 M301 KING WIDE
SCALE: 1/4" = 1'-0"



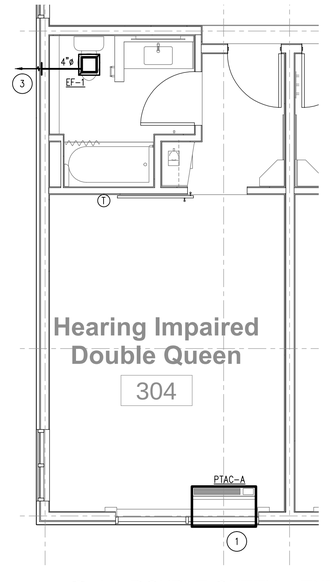
6 M301 KING X-WIDE
SCALE: 1/4" = 1'-0"



7 M301 ACCESSIBLE ROLLIN X-WIDE KING -1st FLOOR
SCALE: 1/4" = 1'-0"



8 M301 DOUBLE QUEEN - END
SCALE: 1/4" = 1'-0"



9 M301 H.I. DOUBLE QUEEN - END
SCALE: 1/4" = 1'-0"

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No.	Date	Description
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TOWN DEAN SMITH
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20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

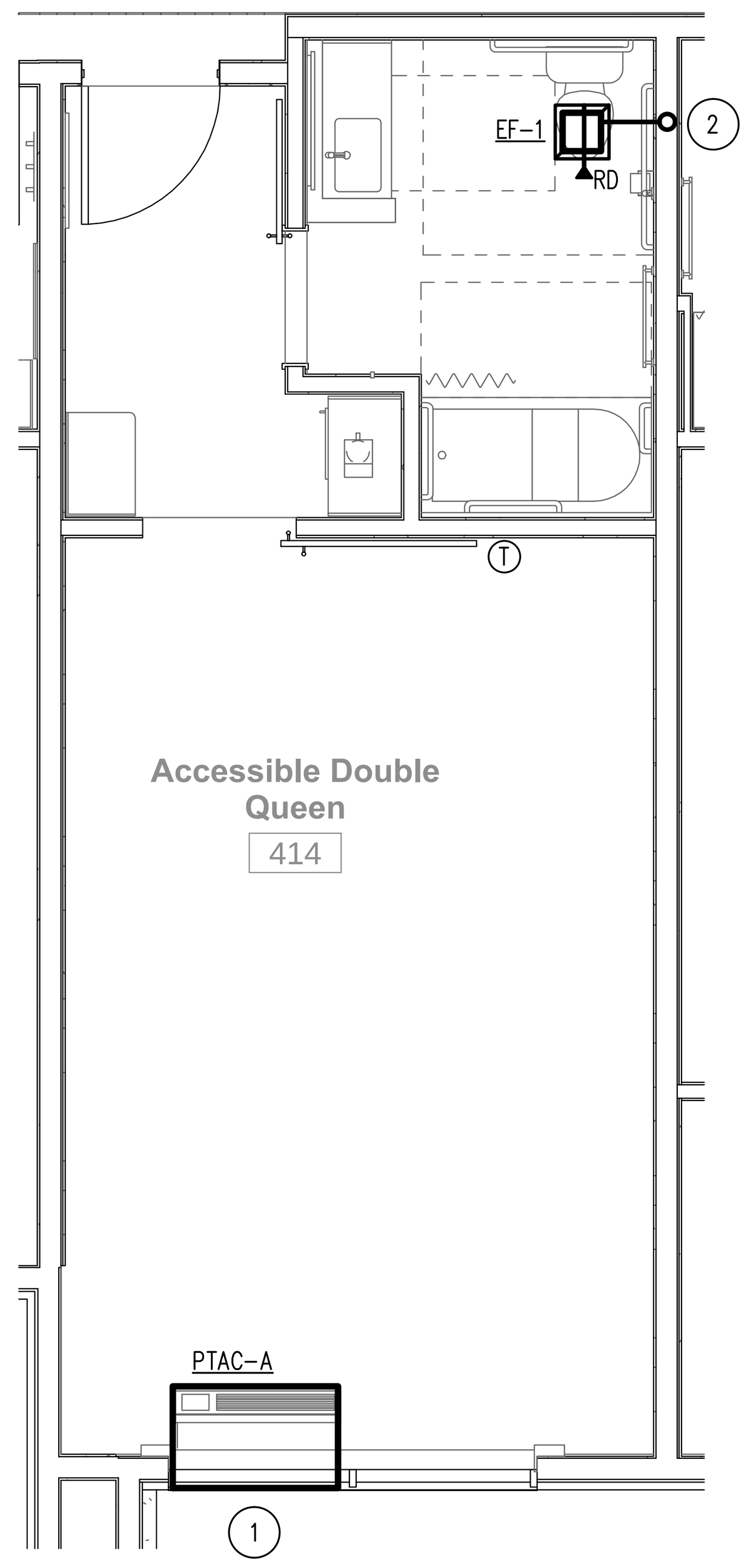
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
MECHANICAL ENLARGED GUESTROOM PLANS

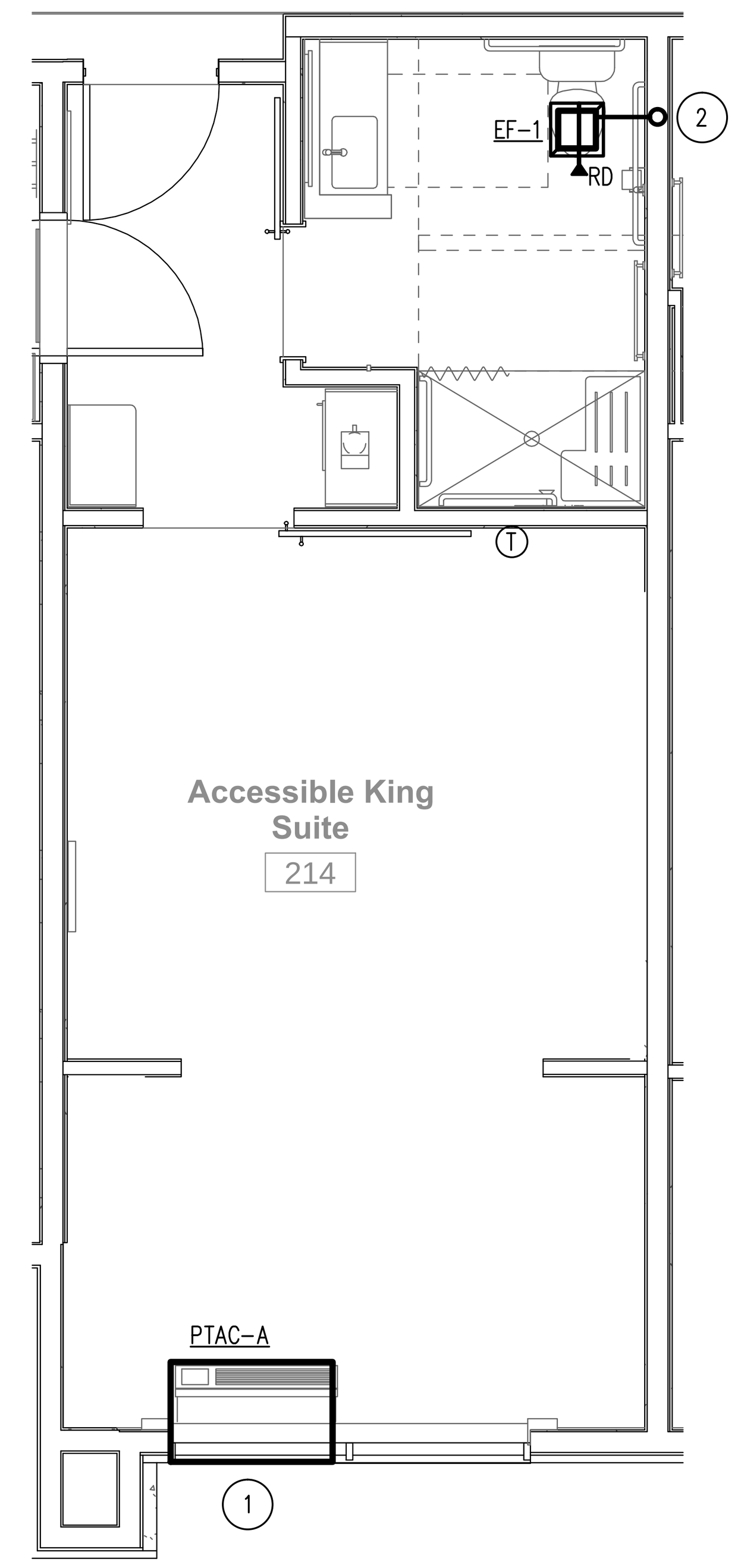
Phase
Construction Documents

Project No.	14-081	Sheet No.	M301
Prepared by	CRM		
Checked by	EDB		
Date	Feb. 27, 2015		

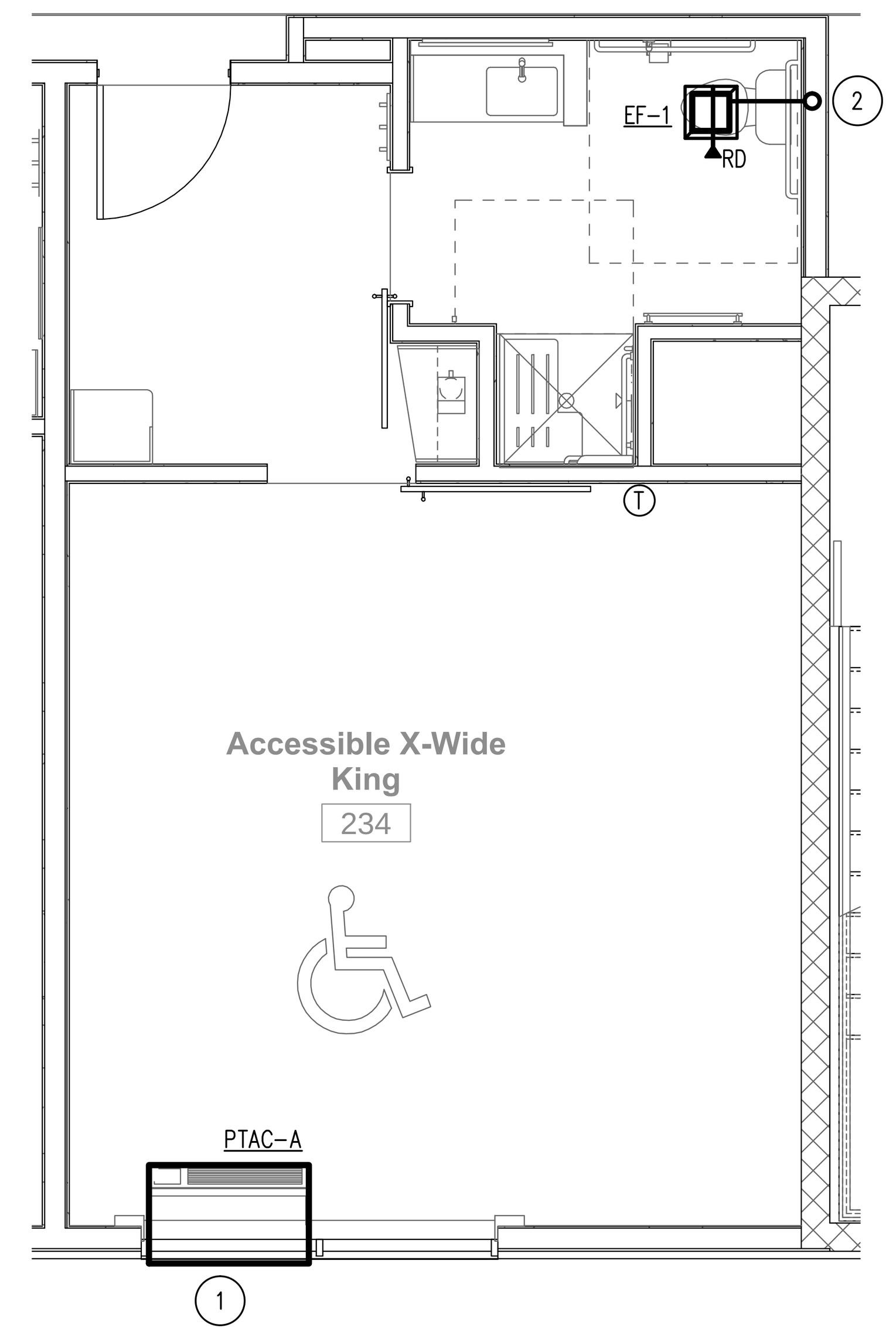
Holiday Inn Express & Suites



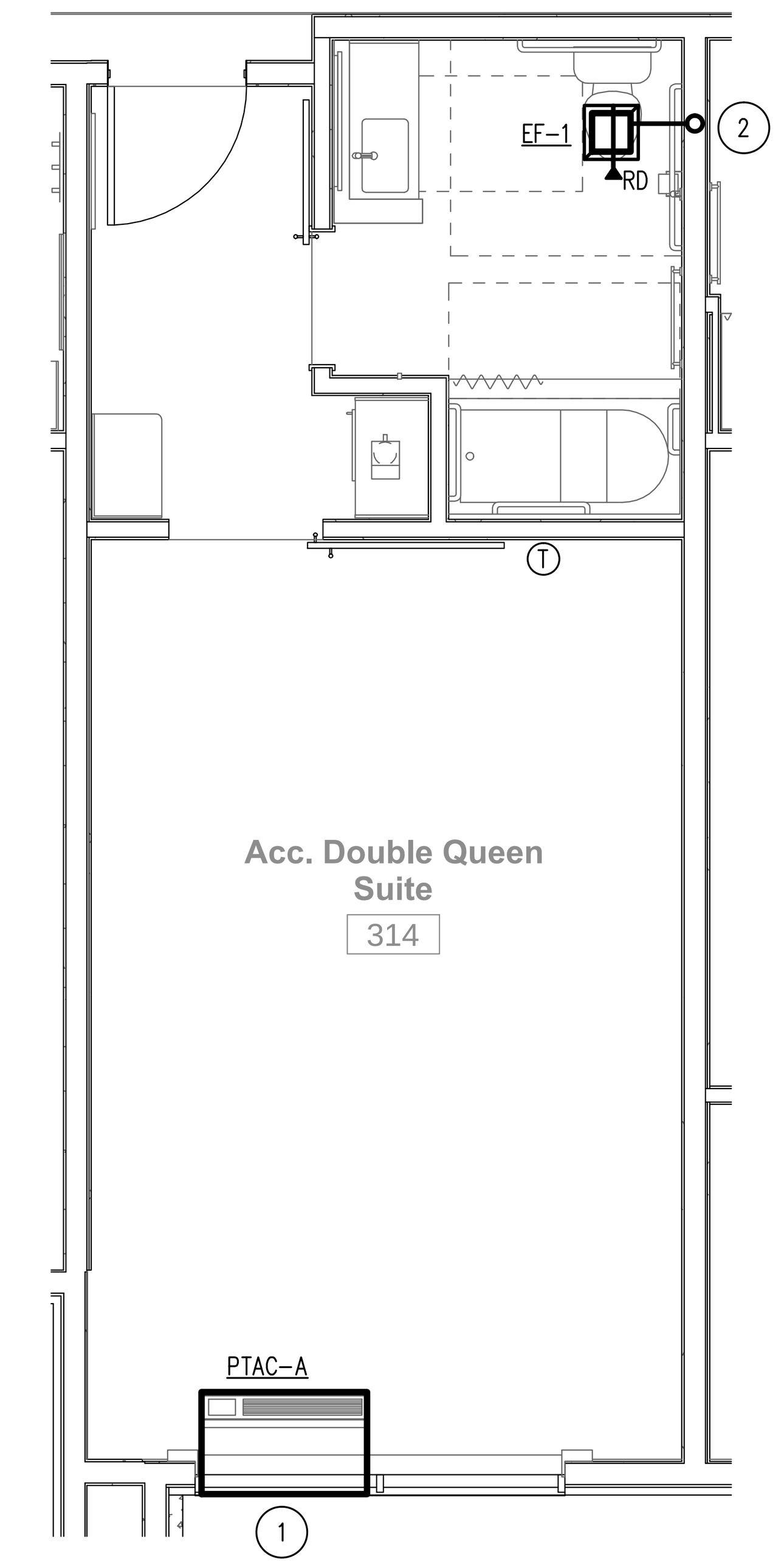
1 M302 **ACCESSIBLE DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



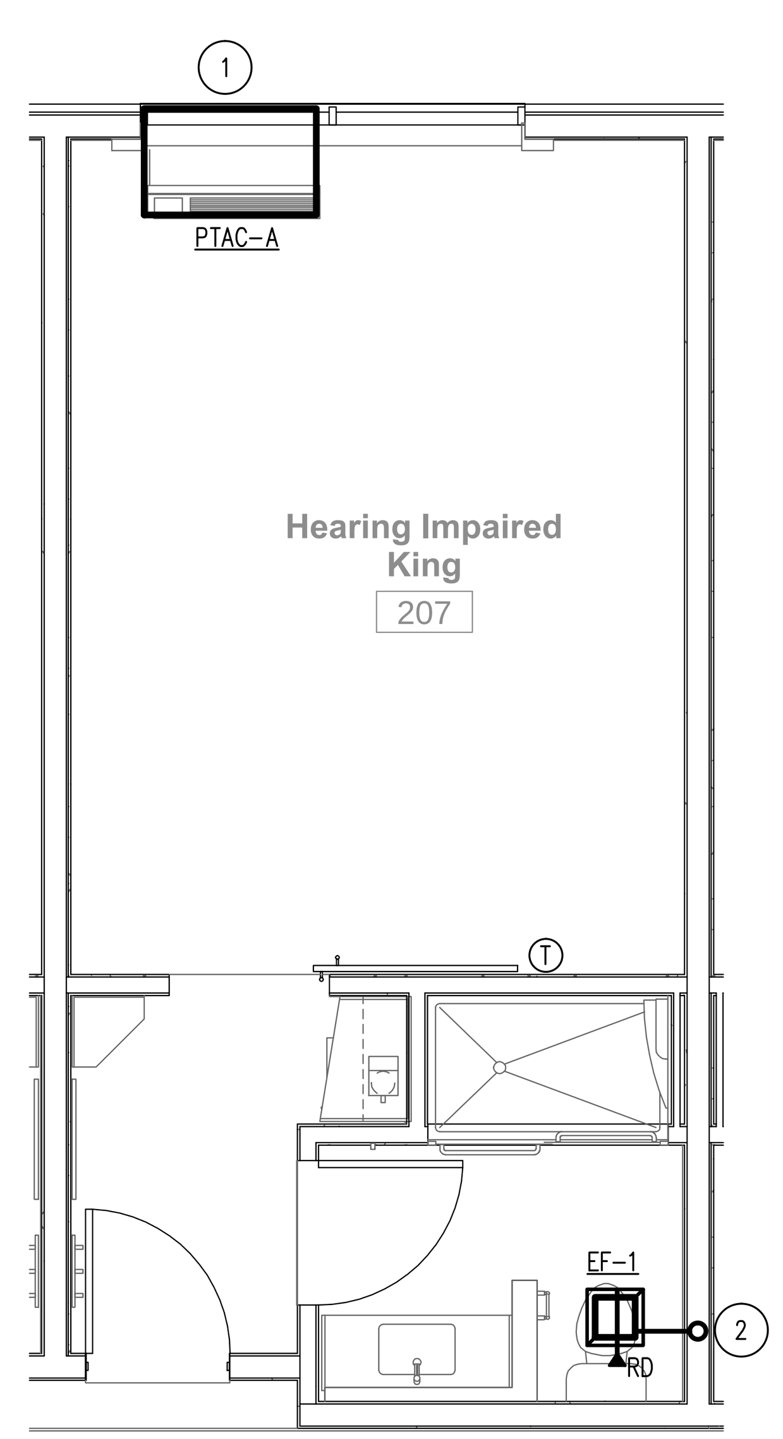
2 M302 **ACCESSIBLE KING SUITE**
SCALE: 1/4" = 1'-0"



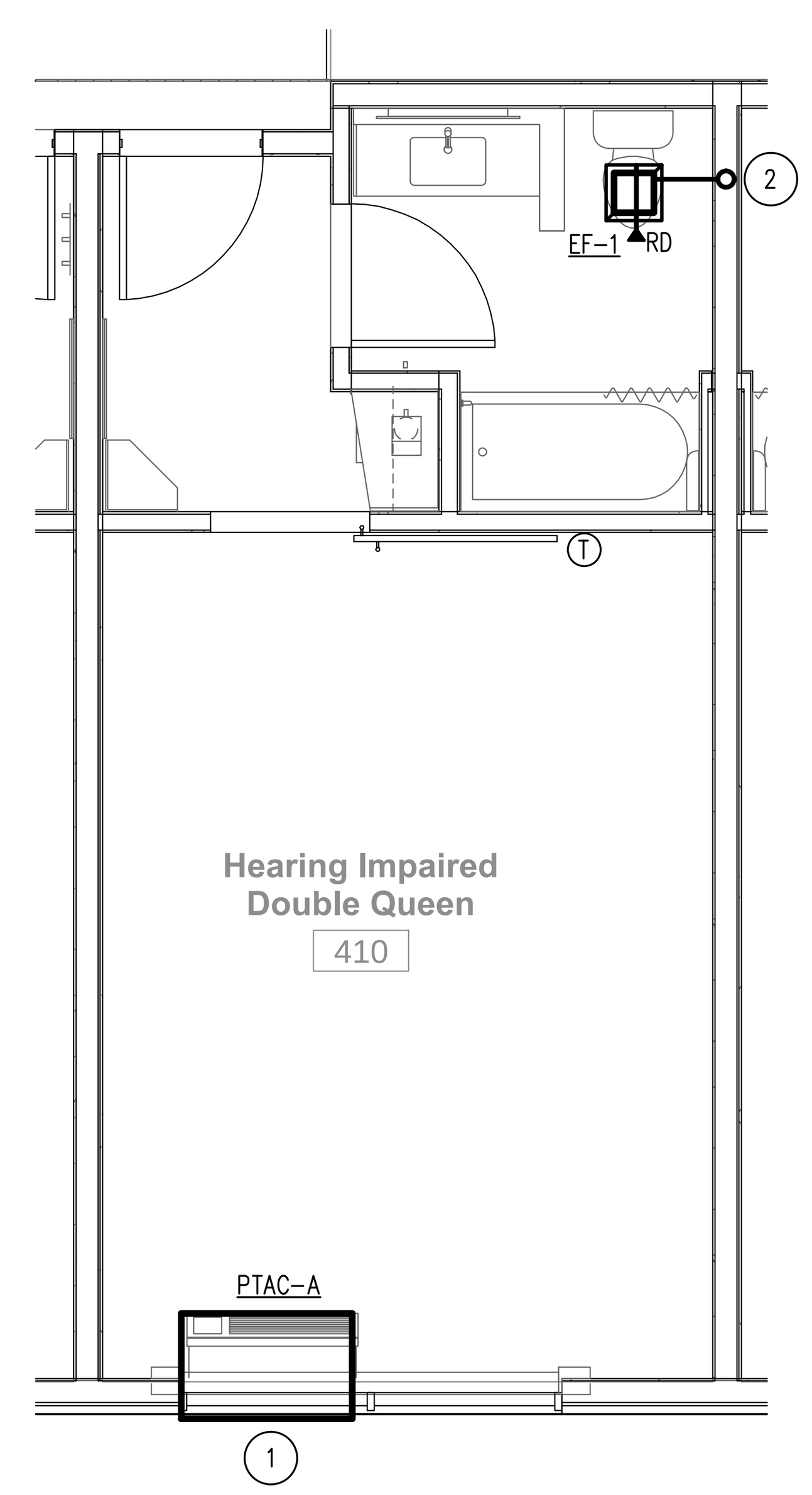
3 M302 **ACCESSIBLE X-WIDE KING**
SCALE: 1/4" = 1'-0"



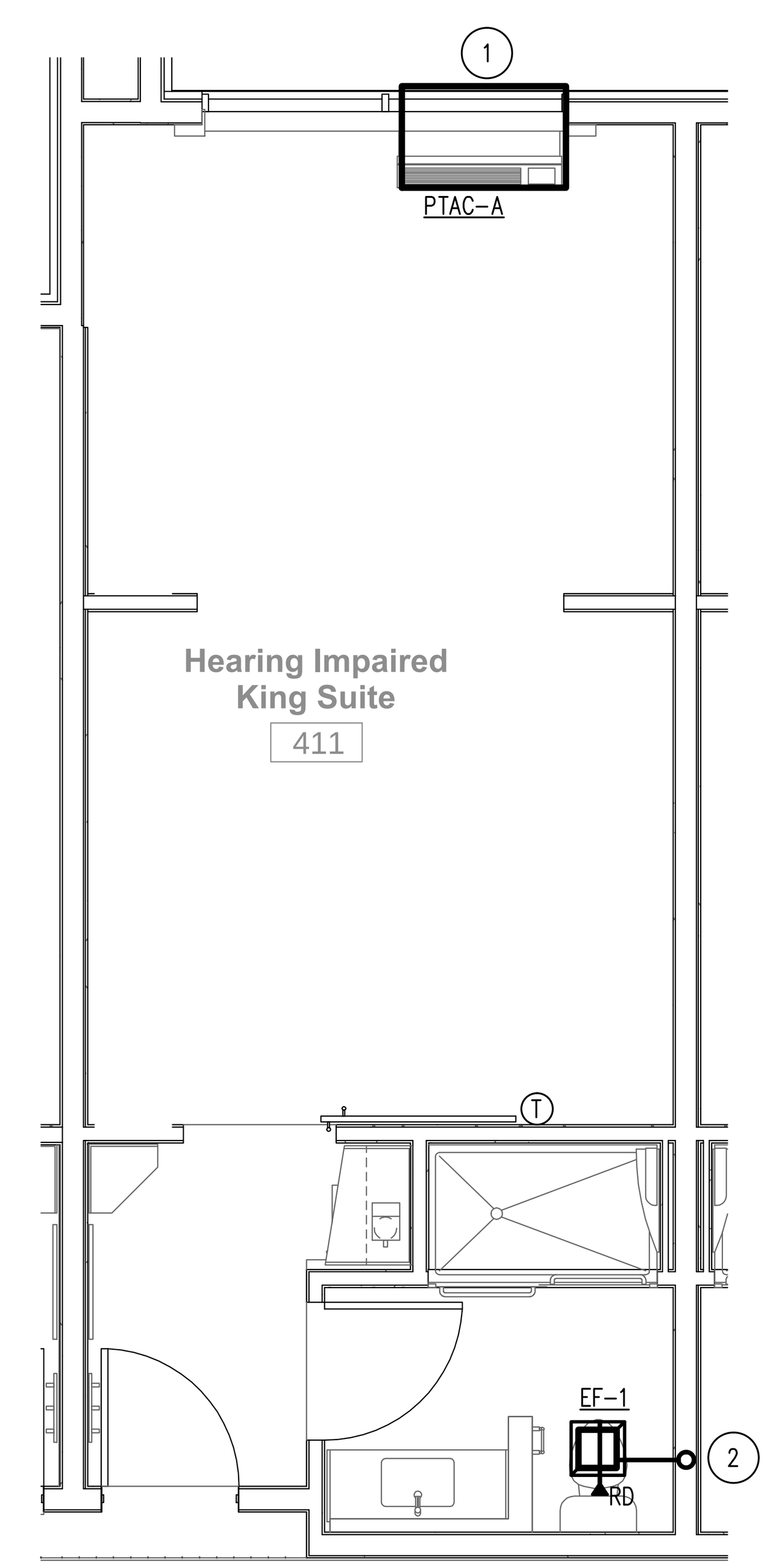
4 M302 **ACCESSIBLE DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



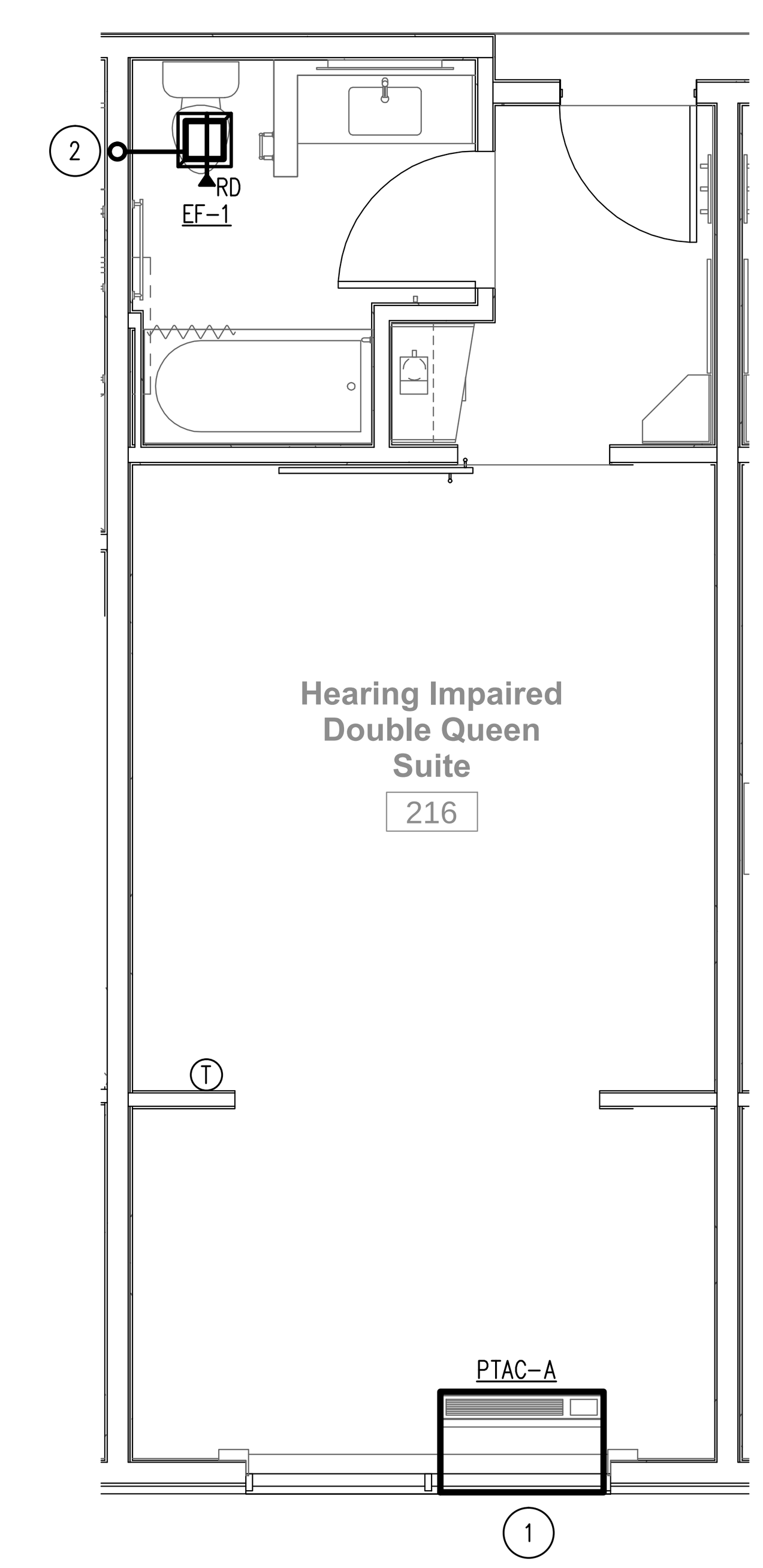
5 M302 **HEARING IMPAIRED KING**
SCALE: 1/4" = 1'-0"



6 M302 **HEARING IMPAIRED DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



7 M302 **HEARING IMPAIRED KING SUITE**
SCALE: 1/4" = 1'-0"



8 M302 **HEARING IMPAIRED DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"

KEYED NOTES
(THIS SHEET ONLY)

1. SEE 1/M002 FOR CONDENSATE ROUTING.
2. 4" (26 GAUGE) SHEET METAL EXHAUST DUCT UP TO ROOF.

NOTE:
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No.	Date	Description
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EDWIN DEAN BELK
LICENSED PROFFESIONAL
ENGINEER
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STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

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Southaven, MS 38671

Drawing Title
MECHANICAL ENLARGED GUESTROOM PLANS

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	CRM	M302
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INSOFAR AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
2. SCOPE: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
3. CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, AND DEPARTMENT OF HEALTH. APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE CODES, LAWS, OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.
4. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
5. WARRANTY: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
6. RECORD DRAWINGS: CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL AS-BUILT CONDITIONS DURING CONSTRUCTION AND TURN OVER ONE COPY EACH TO THE OWNER AND THE ARCHITECT AFTER COMPLETION.
7. OPERATING MANUALS: CONTRACTOR SHALL FURNISH TO THE OWNER 3 SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL MAJOR PIECES OF EQUIPMENT.
8. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER.
9. PROVIDE CONCRETE HOUSE KEEPING PADS FOR ALL PLUMBING EQUIPMENT SET ON FLOORS, UNLESS OTHERWISE NOTED. PADS SHALL BE A MINIMUM OF 4" HIGH AND A MINIMUM OF 6" LARGER THAN EQUIPMENT BASES ON ALL SIDES. CHAMFER ALL EDGES.
10. LABEL ALL PLUMBING PIPING WITH ADHESIVE PIPE LABELS INDICATING SERVICE AND DIRECTION OF FLOW. PIPE LABELS SHALL BE LOCATED NEAR ALL BRANCH CONNECTIONS, NEAR ALL FLOOR AND WALL PENETRATIONS, AND AT MAXIMUM INTERVALS OF 25' ALONG EACH RUN.
11. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
    - -PLUMBING FIXTURES AND EQUIPMENT
    - -FIRE STOPPING
    - -DOMESTIC WATER SYSTEM
    - -SANITARY WASTE AND VENT SYSTEM
    - -NATURAL GAS SYSTEM
    - -STORM DRAIN/SEWER SYSTEM

FIXTURES:

1. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
2. SEAL ALL EDGES OF PLUMBING FIXTURES IN CONTACT WITH FLOORS, WALLS, OR COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.
3. PROVIDE PERMANENTLY ATTACHED VACUUM BREAKERS FOR ALL FIXTURES/FAUCETS TO WHICH HOSES MAY BE CONNECTED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE 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 DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

DOMESTIC WATER PIPING:

1. FURNISH AND INSTALL A COMPLETE SYSTEM OF DOMESTIC HOT AND COLD WATER SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING DOMESTIC WATER SUPPLIES.
2. DOMESTIC WATER PIPING BELOW GROUND: ASTM B 88 TYPE 'K' SOFT COPPER TUBE WITH WROT COPPER FITTINGS, AND BRAZED OR PRESSURE-SEALED JOINTS.
3. DOMESTIC WATER PIPING ABOVE GROUND: ASTM B 88 TYPE 'L' HARD COPPER TUBE WITH WROT COPPER FITTINGS, AND SOLDERED OR PRESSURE-SEALED JOINTS FOR PIPING LARGER THAN 2", AND FOR EXPOSED PIPING IN EQUIPMENT ROOMS AND BACK-OF-HOUSE AREAS; UPONOR AQUAPEX ASTM F876 CROSSLINKED POLYETHYLENE PEX-A TUBING, AND ASTM F1960 PEX-A COLD EXPANSION FITTINGS FOR DISTRIBUTION PIPING 2" AND SMALLER. ALL FIXTURE ROUGH-INS MUST BE COPPER. PROVIDE AQUAPEX BLUE TUBING FOR COLD WATER PIPING 1" AND SMALLER, AQUAPEX RED TUBING FOR HOT WATER PIPING 1" AND SMALLER, AND AQUAPEX WHITE TUBING FOR HOT WATER RETURN PIPING AND ALL PIPING LARGER THAN 1". CONTRACTOR MUST BE TRAINED AND CERTIFIED BY AN UPONOR REPRESENTATIVE, AND MUST OBTAIN SHOP DRAWINGS FROM UPONOR FOR PIPING INSTALLATION.
4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ASJ.
6. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
7. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
8. DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
9. SHUT-OFF VALVES SHALL BE NIBCO TWO-PIECE, BRONZE, FULL PORT, BALL TYPE. PROVIDE SHUT-OFF VALVES ON ALL BRANCH PIPING TO GUEST ROOM RISERS, AND WHERE INDICATED ON THE DRAWINGS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.
10. PROVIDE DRAIN VALVES IN THE DOMESTIC HOT AND COLD WATER PIPING AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE OF THE SYSTEMS.
11. PROVIDE A PRESSURE REDUCING VALVE WITH STRAINER AT THE SERVICE ENTRANCE TO THE BUILDING IF THE INCOMING WATER PRESSURE EXCEEDS 80 PSI.
12. PROVIDE EXPANSION COMPENSATION AS REQUIRED TO ABSORB THERMAL EXPANSION IN PIPE RUNS 50' AND LONGER.
13. PROVIDE CHECK VALVES IN THE HOT AND COLD WATER SUPPLY PIPING TO ALL FAUCETS TO WHICH HOSES MAY BE CONNECTED (MOP BASINS, CAN WASHES, SERVICE SINKS, ETC.), AND TO ALL SPRAY FAUCETS (PRE-RINSE, ETC.), UNLESS FAUCET HAS INTEGRAL CHECK VALVES.
14. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER-PLATED.

SANITARY WASTE AND VENT PIPING:

1. FURNISH AND INSTALL COMPLETE SYSTEMS OF SANITARY WASTE AND VENT PIPING FROM ALL PLUMBING FIXTURES AND/OR EQUIPMENT REQUIRING WASTE AND VENT CONNECTIONS. ALL WASTE AND VENT PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. SANITARY WASTE AND VENT PIPING BELOW GROUND: ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
3. SANITARY WASTE AND VENT PIPING ABOVE GROUND: ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
4. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 3311 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED FOR ALL VENT PIPING, SANITARY PIPING BELOW GROUND, AND SANITARY PIPING IN GUEST ROOMS 2" AND SMALLER. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
5. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE SANITARY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE SANITARY PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT MINIMUM, AND SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
6. WHERE SANITARY PIPING IS EXPOSED IN TOILET ROOMS, PROVIDE CHROME-PLATED BRASS PIPING WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES AND SINKS.
7. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL SOIL AND WASTE STACKS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
8. INSULATE ALL ABOVE GROUND WASTE PIPING FROM DRAINS SERVING ICE MACHINES, UP TO AND INCLUDING 10'-0" FROM DRAIN.
9. DO NOT CONNECT HORIZONTAL BRANCHES WITHIN 10 PIPE DIAMETERS DOWNSTREAM OF THE BASE OF ANY SANITARY STACK.
10. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO AN APPROVED WASTE RECEPTOR. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

NATURAL GAS PIPING:

1. WORK TO INCLUDE PIPING FROM GAS METER TO ALL GAS-FIRED EQUIPMENT SERVING BUILDING, INCLUDING FINAL CONNECTIONS TO EQUIPMENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH IFGC, ALL APPLICABLE LOCAL CODE REQUIREMENTS, THE PROVISIONS OF NFPA 54, AND THE REGULATIONS OF THE GAS COMPANY PROVIDING SERVICE.
3. NATURAL GAS PIPING: ASTM A 53 SCHEDULE 40 SEAMLESS BLACK STEEL PIPE WITH MALLEABLE FITTINGS AND THREADED JOINTS.
4. VALVES SHALL BE FULL PORT BALL VALVES APPROVED FOR USE IN NATURAL GAS PIPING SYSTEMS.
5. PROVIDE SHUT-OFF VALVE, UNION, VENTLESS GAS REGULATOR, DRIP LEG, AND TEST CONNECTION AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO EQUIPMENT AS REQUIRED BY MANUFACTURER.
6. ALL GAS PIPING LOCATED ON ROOFS SHALL BE INSTALLED ON MANUFACTURED PIPE SUPPORTS SIMILAR TO ERICO CADDY PYRAMID 50. WOOD BLOCKING WILL NOT BE PERMITTED.
7. ALL PIPING EXPOSED TO THE OUTDOORS OR EXPOSED IN FINISHED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL. COLOR SELECTED BY ARCHITECT, OR AS REQUIRED BY GAS COMPANY.

STORM DRAIN PIPING:

1. WORK INCLUDES ROOF DRAINS AND PIPING TO A POINT 5'-0" OUTSIDE OF THE BUILDING, AND OVERFLOW DRAINS AND PIPING TO WALL MOUNTED DISCHARGE NOZZLES. ALL PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE STORM PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE STORM PIPING AT 1/8" PER FOOT MINIMUM.
3. STORM DRAIN PIPING BELOW GROUND: ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
4. STORM DRAIN PIPING ABOVE GROUND: ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
5. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 3311 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED FOR STORM PIPING BELOW GROUND ONLY.
6. INSULATE STORM PIPING ABOVE GROUND AND ROOF DRAIN BODIES WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ASJ. THIS INCLUDES THE PRIMARY AND OVERFLOW STORM DRAIN SYSTEMS.
7. STORM DRAIN PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
8. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL RAINWATER CONDUCTORS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).

WATER HAMMER ARRESTER REQUIREMENTS:

1. PROVIDE WATER HAMMER ARRESTERS FOR COPPER PIPING SYSTEMS CONFORMING TO PDI-WH201 OR ASSE 1010, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, WHERE QUICK CLOSING VALVES ARE UTILIZED. A QUICK CLOSING VALVE IS A VALVE OR FAUCET THAT CLOSES AUTOMATICALLY WHEN RELEASED, OR THAT IS CONTROLLED BY MECHANICAL MEANS FOR FAST-ACTION CLOSING. REFER TO WATER HAMMER ARRESTER SCHEDULE.
2. AS A MINIMUM, PROVIDE ONE WATER HAMMER ARRESTER FOR EACH BRANCH LINE TO EACH TOILET ROOM LESS THAN 20' IN LENGTH, LOCATED BETWEEN THE LAST TWO FIXTURES SERVED. FOR BRANCH LINES GREATER THAN 20' IN LENGTH, A SECOND WATER HAMMER ARRESTER IS REQUIRED.

BACKFLOW PREVENTER REQUIREMENTS:

1. VERIFY BACKFLOW PREVENTER REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE BACKFLOW PREVENTER AS REQUIRED, IF NOT PROVIDED BY SITE UTILITY CONTRACTOR.

WATER METER REQUIREMENTS:

1. VERIFY WATER METER REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE WATER METER AS REQUIRED, IF NOT PROVIDED BY SITE UTILITY CONTRACTOR.

PLUMBING LEGEND

	DOMESTIC COLD WATER PIPING (CW)
	DOMESTIC HOT WATER PIPING (HW)
	DOMESTIC HOT WATER RETURN PIPING (HWR)
G	NATURAL GAS PIPING (G)
PD	PUMP DISCHARGE PIPING (PD)
	SANITARY PIPING (SAN)
	STORM PIPING
	VENT PIPING (V)
	BACKFLOW PREVENTER (BFP)
	BALANCING VALVE
	BALL VALVE
	CHECK VALVE
OR	FLOOR CLEANOUT (FCO)
	FLOOR DRAIN (FD)
	FLOOR SINK (FS)
	GAS COCK
OR	PIPE DOWN
OR	PIPE UP
	PRESSURE GAUGE
	ROOF DRAIN (RD)
	STRAINER
	T&P RELIEF VALVE
	THERMOMETER
	UNION
	WALL CLEANOUT (WCO)

ABV	ABOVE
AHAP	AS HIGH AS POSSIBLE
BLDG	BUILDING
BLW	BELOW
CLG	CEILING
CONT	CONTINUATION
DN	DOWN
E.C.	ELECTRICAL CONTRACTOR
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
RWC	RAINWATER CONDUCTOR
SF, SQ FT	SQUARE FOOT
T&P	TEMPERATURE AND PRESSURE
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W	WASTE

PLUMBING BID NOTE

THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE A LINE ITEM COST FOR INSTALLING A DOMESTIC BOOSTER PUMP AND ALL ASSOCIATED CONTROLS, EQUIPMENT, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. BOOSTER PUMP SHALL BE A TRIPLEX SYSTEM WITH EACH PUMP SIZED FOR 50% OF THE TOTAL LOAD. UPON COMPLETION OF A FLOW TEST, IF IT IS DETERMINED THAT A BOOSTER PUMP IS NOT REQUIRED, THE CONTRACTOR SHALL RETURN TO THE OWNER A CREDIT IN THE AMOUNT OF THE LINE ITEM COST SUBMITTED WITH THE BID.

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REVISIONS		
No.	Date	Description
1		

JOHN DEAN BECK
REGISTERED PROFESSIONAL ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Notes and Legend

Phase
Construction Documents

Project No.	14-081	Sheet No.	P001
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC-1	WATER CLOSET	FLOOR MOUNTED FLUSH TANK STANDARD HEIGHT	VITREOUS CHINA	3"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET PRO MODEL 215CA.004, 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 7800TDG HEAVY DUTY, SOLID PLASTIC, CLOSED FRONT, WITH COVER, CHECK HINGES WITH STAINLESS STEEL POSTS AND PINTLES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-2	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET PRO RIGHT HEIGHT MODEL 215AA.004, 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. PROVIDE WITH TRIP LEVER ON APPROACH SIDE OF TOILET TANK. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 7800TDG HEAVY DUTY, SOLID PLASTIC, CLOSED FRONT, WITH COVER, CHECK HINGES WITH STAINLESS STEEL POSTS AND PINTLES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-3	WATER CLOSET	FLOOR MOUNTED FLUSH VALVE STANDARD HEIGHT	VITREOUS CHINA	4"	2"	1"	–	FIXTURE: AMERICAN STANDARD MADERA FLOWISE MODEL 3451.001, 1.28 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 1-1/2" TOP SPUD, EVERCLEAN SURFACE. FLUSH VALVE: AMERICAN STANDARD MODEL 6047.121.002, EXPOSED PISTON TYPE WITH METAL NON-HOLD-OPEN HANDLE, 1.28 GALLONS PER FLUSH. SEAT: BEMIS MODEL 2155SSCT HEAVY DUTY, SOLID PLASTIC, OPEN FRONT, LESS COVER, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS AND PINTLES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-4	WATER CLOSET	FLOOR MOUNTED FLUSH VALVE ADA HEIGHT	VITREOUS CHINA	4"	2"	1"	–	FIXTURE: AMERICAN STANDARD MADERA FLOWISE MODEL 3461.001, 1.28 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 1-1/2" TOP SPUD, EVERCLEAN SURFACE. FLUSH VALVE: AMERICAN STANDARD MODEL 6047.121.002, EXPOSED PISTON TYPE WITH METAL NON-HOLD-OPEN HANDLE, 1.28 GALLONS PER FLUSH. SEAT: BEMIS MODEL 2155SSCT HEAVY DUTY, SOLID PLASTIC, OPEN FRONT, LESS COVER, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS AND PINTLES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
U-1	URINAL	WALL HUNG FLUSH VALVE STANDARD HEIGHT	VITREOUS CHINA	2"	2"	¾"	–	FIXTURE: AMERICAN STANDARD WASHBROOK FLOWISE MODEL 6590.001, 0.5 GALLONS PER FLUSH, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. FLUSH VALVE: AMERICAN STANDARD MODEL 6045.051.002, EXPOSED PISTON TYPE WITH METAL NON-HOLD-OPEN HANDLE, 0.5 GALLONS PER FLUSH. CARRIER: ZURN Z1222 SERIES WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES.
U-2	URINAL	WALL HUNG FLUSH VALVE ADA HEIGHT	VITREOUS CHINA	2"	2"	¾"	–	FIXTURE: AMERICAN STANDARD WASHBROOK FLOWISE MODEL 6590.001, 0.5 GALLONS PER FLUSH, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. MOUNT AT ADA HEIGHT. FLUSH VALVE: AMERICAN STANDARD MODEL 6045.051.002, EXPOSED PISTON TYPE WITH METAL NON-HOLD-OPEN HANDLE, 0.5 GALLONS PER FLUSH. CARRIER: ZURN Z1222 SERIES WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES.
L-1	LAVATORY	UNDERMOUNT ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD STUDIO MODEL 0614.000, 18-1/4" X 12-1/8" X 6-3/4" DEEP RECTANGLE BOWL, FRONT OVERFLOW, UNGLAZED RIM. FAUCET: AMERICAN STANDARD RELIANT 3 MODEL 7385.008.002, POLISHED CHROME-PLATED, SINGLE CONTROL CENTERSET, WITH METAL POP-UP DRAIN, 1.5 GPM SPRAY. TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. INCLUDE TRUEBRO LAV GUARD 2 MODEL #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS IN ALL ADA GUESTROOMS.
L-2	LAVATORY	UNDERMOUNT ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD OVALYN MODEL 0496.221, 17" X 14" X 5-1/2" DEEP OVAL BOWL, FRONT OVERFLOW, UNGLAZED RIM. FAUCET: AMERICAN STANDARD RELIANT 3 MODEL 7385.003.002, POLISHED CHROME-PLATED, SINGLE CONTROL CENTERSET, WITH GRID DRAIN, 1.5 GPM SPRAY. TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. INCLUDE TRUEBRO LAV GUARD 2 MODEL #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS.
L-3	LAVATORY	WALL HUNG ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD LUCERNE MODEL 0355.012, 20" X 18", FRONT OVERFLOW, SELF-DRAINING DECK WITH SPLASH SHIELDS, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: AMERICAN STANDARD RELIANT 3 MODEL 7385.003.002, POLISHED CHROME-PLATED, SINGLE CONTROL CENTERSET, WITH GRID DRAIN, 1.5 GPM SPRAY. TRAP: McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. INCLUDE TRUEBRO LAV GUARD 2 MODEL #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS.
MB-1	MOP BASIN	24" X 24"	MOLDED STONE	3"	2"	½"	½"	FIXTURE: FIAT MSB-2424, 10" HIGH WALLS, STAINLESS STEEL FACTORY INSTALLED DRAIN BODY, WITH 1453BB FLAT STAINLESS STEEL STRAINER, E77AA24 VINYL BUMPER GUARDS ON ALL CURBS. FAUCET: AMERICAN STANDARD EXPOSED YOKE WALL-MOUNT UTILITY FAUCET NO. 8354.112.004, ROUGH CHROME-PLATED CAST BRASS, ADJUSTABLE CENTERS, INTEGRAL SUPPLY STOPS, OFFSET SHANKS WITH INTEGRAL CHECK VALVES, CAST BRASS SPOUT WITH VACUUM BREAKER, HOSE THREAD OUTLET, PAIL HOOK, AND TOP BRACE. ADDITIONAL EQUIPMENT: PROVIDE 889CC MOP BRACKET, 832AA HOSE AND BRACKET, MSC2424 STAINLESS STEEL WALL GUARD PANELS.
S-1	SINK	COUNTERTOP SINGLE BOWL ADA COMPLIANT	STAINLESS STEEL	1½"	1½"	½"	½"	FIXTURE: ELKAY GOURMET (LUSTERTONE) MODEL LRAD2022, 6-1/2" DEEP, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, FULLY COATED UNDERSIDE, 3 HOLE DRILLING, OFF-CENTERED REAR DRAIN. FAUCET: AMERICAN STANDARD RELIANT+ MODEL 4205.000.002, POLISHED CHROME-PLATED, SINGLE CONTROL, METAL LEVER HANDLE, SWIVEL SPOUT, LESS HAND SPRAY. TRAP: ELKAY LK35 TYPE 304 STAINLESS STEEL DRAIN WITH CRUMB CUP STRAINER AND CHROME-PLATED BRASS TAILPIECE, McGUIRE 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
EWC-1	ELECTRIC WATER COOLER	WALL MOUNTED DUAL HEIGHT	STAINLESS STEEL	1½"	1½"	½"	–	FIXTURE: ELKAY MODEL EZSTL8SC, BARRIER-FREE, SELF-CONTAINED, 8.0 GPH, EASY-TOUCH CONTROLS ON FRONT AND SIDES, ONE PIECE STAINLESS STEEL TOPS WITH INTEGRAL DRAINS, FLEXIBLE BUBBLERS, STAINLESS STEEL LOWER SHROUDS. TRAP: McGUIRE 1-1/2" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.
BT-1	BATHTUB	ALCOVE	AMERICAST	2"	2"	½"	½"	FIXTURE: AMERICAN STANDARD PRINCETON MODEL 2394.202.020 (LEFT DRAIN) OR 2395.202.020 (RIGHT DRAIN), 60" X 34" BATH WITH INTEGRAL APRON AND TILING FLANGE, SLIP-RESISTANT FINISH. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.055.002 DELUXE DIVERTER TUB SPOUT, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10284-CP MULTI-FUNCTION SHOWER HEAD, 2.5 GPM FLOW RATE, POLISHED CHROME FINISH. DRAIN: DEARBORN BRASS MODEL 227-3 UNI-LIFT BRASS TUBULAR – 17 GAUGE BATH DRAIN WITH OVERFLOW, POLISHED CHROME FINISH.
BT-2	BATHTUB	ALCOVE ADA COMPLIANT	AMERICAST	2"	2"	½"	½"	FIXTURE: AMERICAN STANDARD PRINCETON MODEL 2394.202.020 (LEFT DRAIN) OR 2395.202.020 (RIGHT DRAIN), 60" X 34" BATH WITH INTEGRAL APRON AND TILING FLANGE, SLIP-RESISTANT FINISH. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS, AND AMERICAN STANDARD MODEL R420 2-WAY IN-WALL DIVERTER VALVE BODY. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.056.002 DELUXE DIVERTER TUB SPOUT, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10284-CP MULTI-FUNCTION SHOWER HEAD, 2.5 GPM FLOW RATE, POLISHED CHROME FINISH; AMERICAN STANDARD SERIN MODEL T064.430.002 DIVERTER VALVE TRIM, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10298-CP MULTI-FUNCTION HANDSHOWER, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.038.002 WALL SUPPLY BRACKET, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 888.035.002 59" METAL SHOWER HOSE, POLISHED CHROME FINISH; AND AMERICAN STANDARD MODEL 1660.400.002 IN-LINE VACUUM BREAKER, POLISHED CHROME FINISH. ALL CONTROLS SHALL BE OFFSET 8" FROM CENTER TOWARDS FRONT OF TUB. DRAIN: DEARBORN BRASS MODEL 228-3 TOUCH-TOE BRASS TUBULAR – 17 GAUGE BATH DRAIN WITH OVERFLOW, POLISHED CHROME FINISH.
SH-1	SHOWER	SHOWER FLOOR	CAST MARBLE	2"	2"	½"	½"	FIXTURE: MINCEY MARBLE MODEL CFP-30-3660-OS/SF-L (LEFT DRAIN) OR CFP-30-3660-OS/SF-R (RIGHT DRAIN), 30"-36" X 60", CURVED FRONT SHOWER PAN, SEAMLESS, GEL COAT SURFACE, WITH INTEGRAL FRONT CURB, SIDE AND BACK FLANGES, CENTER DRAIN, TEXTURED NON-SLIP FLOOR FINISH, PRE-LEVELED FOR ON FLOOR INSTALLATION. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10284-CP MULTI-FUNCTION SHOWER HEAD, 2.5 GPM FLOW RATE, POLISHED CHROME FINISH. DRAIN: OATEY MODEL 42150, BRASS DRAIN WITH STAINLESS STEEL PERFORATED STRAINER.
SH-2	SHOWER	SHOWER FLOOR ADA COMPLIANT ROLL-IN	CAST MARBLE	2"	2"	½"	½"	FIXTURE: MINCEY MARBLE MODEL SP-3162-C/SF, 31" X 62" ROLL-IN SHOWER PAN, SEAMLESS, GEL COAT SURFACE, WITH FIBERGLASS SIDE AND BACK CURBS, FIBERGLASS FLANGE, CENTER DRAIN, TEXTURED NON-SLIP FLOOR FINISH, PRE-LEVELED FOR ON FLOOR INSTALLATION. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS, AND AMERICAN STANDARD MODEL R420 2-WAY IN-WALL DIVERTER VALVE BODY. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10284-CP MULTI-FUNCTION SHOWER HEAD, 2.5 GPM FLOW RATE, POLISHED CHROME FINISH; AMERICAN STANDARD SERIN MODEL T064.430.002 DIVERTER VALVE TRIM, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10298-CP MULTI-FUNCTION HANDSHOWER, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.038.002 WALL SUPPLY BRACKET, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 888.035.002 59" METAL SHOWER HOSE, POLISHED CHROME FINISH; AND AMERICAN STANDARD MODEL 1660.400.002 IN-LINE VACUUM BREAKER, POLISHED CHROME FINISH. MOUNT FIXED SHOWER HEAD ON END WALL, AND MOUNT ALL CONTROLS AND HANDHELD SHOWER ON BACK WALL 27" MAX FROM SEAT WALL. DRAIN: OATEY MODEL 42150, BRASS DRAIN WITH STAINLESS STEEL PERFORATED STRAINER.
SH-3	SHOWER	SHOWER FLOOR ADA COMPLIANT TRANSFER	CAST MARBLE	2"	2"	½"	½"	FIXTURE: MINCEY MARBLE MODEL TP-3838-C/SF, 38" X 38" TRANSFER SHOWER PAN, SEAMLESS, GEL COAT SURFACE, WITH FIBERGLASS SIDE AND BACK CURBS, FIBERGLASS FLANGE, CENTER DRAIN, TEXTURED NON-SLIP FLOOR FINISH, PRE-LEVELED FOR ON FLOOR INSTALLATION. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS, AND AMERICAN STANDARD MODEL R420 2-WAY IN-WALL DIVERTER VALVE BODY. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10284-CP MULTI-FUNCTION SHOWER HEAD, 2.5 GPM FLOW RATE, POLISHED CHROME FINISH; AMERICAN STANDARD SERIN MODEL T064.430.002 DIVERTER VALVE TRIM, POLISHED CHROME FINISH; KOHLER FORTE MODEL K-10298-CP MULTI-FUNCTION HANDSHOWER, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.038.002 WALL SUPPLY BRACKET, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 888.035.002 59" METAL SHOWER HOSE, POLISHED CHROME FINISH; AND AMERICAN STANDARD MODEL 1660.400.002 IN-LINE VACUUM BREAKER, POLISHED CHROME FINISH. MOUNT FIXED SHOWER HEAD ON END WALL, AND MOUNT ALL CONTROLS AND HANDHELD SHOWER ON BACK WALL 27" MAX FROM SEAT WALL. DRAIN: OATEY MODEL 42150, BRASS DRAIN WITH STAINLESS STEEL PERFORATED STRAINER.

WATER HAMMER ARRESTER SCHEDULE

PDI SIZE	FIXTURE UNITS	MODEL
A	1 – 11	SIOUX CHIEF 652-AS
B	12 – 32	SIOUX CHIEF 653-BS
C	33 – 60	SIOUX CHIEF 654-CS
D	61 – 113	SIOUX CHIEF 655-DS
E	114 – 154	SIOUX CHIEF 656-ES
F	155 – 330	SIOUX CHIEF 657-FS

WATER HAMMER ARRESTERS SHALL BE SEAMLESS, PISTON-TYPE, SIZED AND INSTALLED IN ACCORDANCE WITH PDI-WH201. INSTALL WATER HAMMER ARRESTER IN STANDARD TEE, SAME SIZE AS CONNECTED PIPING. AIR CHAMBERS WILL NOT BE PERMITTED.

PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
FD-1	FLOOR DRAIN	ZURN ZN415S-P	CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR, 6" SQUARE "TYPE S" POLISHED NICKEL BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	ZURN Z550-Y-P	9" DIAMETER MEDIUM DUTY SLOTTED TOP, CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, SEDIMENT BUCKET, 1/2" TRAP PRIMER CONNECTION.
FD-3	FLOOR DRAIN	ZURN Z550-G	9" DIAMETER MEDIUM DUTY GALVANIZED SLOTTED TOP, GALVANIZED CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME.
FD-4	FLOOR DRAIN	ZURN Z1731	9" DIAMETER HEAVY DUTY FLOOR DRAIN, TYPE 304 STAINLESS STEEL BODY WITH INTEGRAL ANCHOR FLANGE, TYPE 304 STAINLESS STEEL NON-TILT GRATE.
FS-1	FLOOR SINK	ZURN ZN1910-KC-2	8"x8"x6" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, NICKEL BRONZE FRAME WITH 1/2 GRATE.
FS-2	FLOOR SINK	ZURN ZN1901-KC-2	12"x12"x8" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, NICKEL BRONZE FRAME WITH 1/2 GRATE.
RD	MAIN ROOF DRAIN	ZURN ZA100	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME.
ORD	OVERFLOW ROOF DRAIN	ZURN ZA100-W2	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME, 2" HIGH INTERNAL WATER DAM.
DSN	DOWNSPOUT NOZZLE FOR OVERFLOW ROOF DRAINS	ZURN ZANB199-SS	NICKEL BRONZE BODY WITH REMOVABLE STAINLESS SCREEN.
FCO	FLOOR CLEAN OUT	ZURN ZN1400-BP	ADJUSTABLE, COATED CAST IRON BODY, ROUND SCORIATED NICKEL BRONZE TOP, BRONZE PLUG.
WCO	WALL CLEAN OUT	ZURN Z1446-BP	CAST IRON NO-HUB CLEANOUT TEE, WITH ROUND STAINLESS STEEL WALL ACCESS COVER, BRONZE PLUG, SECURING SCREW.
BFP	BACKFLOW PREVENTER	WATTS SERIES 909QT-S	BRONZE REDUCED PRESSURE ZONE ASSEMBLY, WITH QUARTER-TURN BALL VALVES AND STRAINER. INCLUDE SERIES 909AG AIR GAP FITTING.
HB-1	HOSE BIBB	PRIER MODEL C-155NP.75	ANTI-SIPHON ANGLE SILL FAUCET, CAST BRASS, SATIN NICKEL PLATED, ¾" FLANGED THREADED INLET, ¾" HOSE THREAD OUTLET, METAL WHEEL HANDLE, VACUUM BREAKER BACKFLOW CHECK VALVE.
HB-2	HOSE BIBB	PRIER MODEL C-255CP.50	ANTI-SIPHON ANGLE SILL FAUCET, CAST BRASS, POLISHED CHROME PLATED, ½" FLANGED THREADED INLET, ¾" HOSE THREAD OUTLET, LOOSE KEY OPERATION, VACUUM BREAKER BACKFLOW CHECK VALVE.
FWH-1	FREEZELESS WALL HYDRANT	PRIER MODEL C-634N	ENCASED, ANTI-SIPHON, CAST BRASS HYDRANT, SATIN NICKEL FINISH, ¾" INLET, ¾" HOSE THREAD OUTLET, LOOSE KEY OPERATION, SELF DRAINING, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. INCLUDE PRIER MODEL C-634BX1 SATIN NICKEL HYDRANT BOX, WITH HINGED COVER AND OPERATING KEY LOCK.
FWH-2	FREEZELESS WALL HYDRANT	PRIER MODEL C-754N	ENCASED, ANTI-SIPHON, CAST BRASS MIXING HYDRANT, SATIN NICKEL FINISH, ¾" HOT AND COLD INLETS, ¾" HOSE THREAD OUTLET, LOOSE KEY OPERATION, SELF DRAINING, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. INCLUDE PRIER MODEL C-754BX1 SATIN NICKEL HYDRANT BOX, WITH HINGED COVER AND OPERATING KEY LOCK.
FRH	FREEZELESS ROOF HYDRANT	MAPA PRODUCTS MODEL MPH-24FP:24/9	PEDESTAL MOUNT, GRADE 304 STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, POWDER COATED CAST ALUMINUM WEATHER-GUARD HANDLE, ¾" INLET, BRONZE GLOBE ANDGLE VALVE WITH ¾" HOSE THREAD OUTLET, QUICK DISCONNECT, BUILT-IN VACUUM BREAKER, SELF DRAINING WITH INTEGRAL STAINLESS STEEL RESERVOIR.
IMB	ICE MAKER OUTLET BOX	OATEY FIRE-RATED ICE MAKER OUTLET BOX NO. 39124	RECESSED FIRE-RATED PLASTIC BOX, WITH FYREWRAP INSULATION PAD, 1/4 TURN BRASS BALL VALVE WITH WATER HAMMER ARRESTER, ASTM F1960 PEX FITTING, LOW LEAD, ADJUSTABLE GALVANIZED STEEL SUPPORT BRACKETS, SNAP-ON FACEPLATE.
WMB	WASHING MACHINE OUTLET BOX	OATEY FIRE-RATED WASHING MACHINE OUTLET BOX NO. 38481	RECESSED FIRE-RATED PLASTIC BOX, WITH FYREWRAP INSULATION PAD, 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTERS, ASTM F1960 PEX FITTINGS, 2" PVC DRAIN WITH GALVANIZED STEEL SLEEVE, ADJUSTABLE GALVANIZED STEEL SUPPORT BRACKETS, SNAP-ON FACEPLATE.
DWH-1	DOMESTIC WATER HEATER	AO SMITH CYCLONE Mxi MODEL BTH-199	COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 100 GALLON CAPACITY, 199.9 MBH INPUT, 235 GPH AT 100° TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE, THREE (3) REQUIRED.
DWH-2	DOMESTIC WATER HEATER	AO SMITH CYCLONE Mxi MODEL BTH-150	COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 100 GALLON CAPACITY, 150 MBH INPUT, 178 GPH AT 100° TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE, TWO (2) REQUIRED.
TMV	THERMOSTATIC MIXING VALVE	LEONARD NEXT GENERATION HIGH LOW SYSTEM MODEL TM-1520B-LF-DT	FACTORY ASSEMBLED THERMOSTATIC CONTROLLERS, WITH ADJUSTABLE HIGH TEMPERATURE LIMIT STOPS, INLET CHECKSTOPS, WALL SUPPORT, OUTLET BALL VALVES, 1-1/4" INLETS, 1-1/2" OUTLET, 1.0 GPM MINIMUM FLOW, OUTLET THERMOMETER, 65 GPM MAXIMUM FLOW AT 10 PSI PRESSURE DROP.
ESP	ELEVATOR SUMP PUMP	STANCOR OIL-MINDER MODEL SE-200	SUBMERSIBLE EFFLUENT PUMP SYSTEM WITH OIL-MINDER CONTROL, 2 HP STAINLESS STEEL PUMP, 100 GPM @ 35' TDH, CONTROL PANEL WITH AUDIBLE AND VISIBLE ALARM, JUNCTION BOX WITH INTERCONNECTING CABLES TO PUMP AND CONTROL PANEL.
LINT	LINT INTERCEPTOR	ZURN Z1185 SERIES SIZE #20	200 GPM, ACID RESISTANT COATED FABRICATED STEEL INTERCEPTOR WITH NON-SKID SECURED COVER, MODIFIED WITH 6" INLET AND OUTLET.

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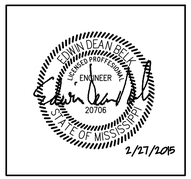
REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

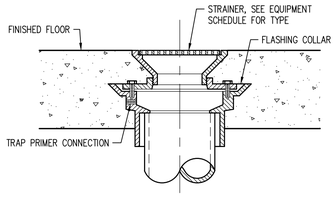
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing Schedules

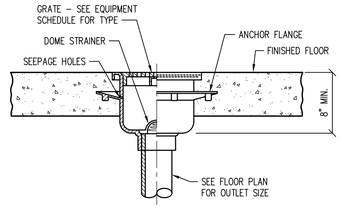
Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MJS	P002
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites



1 P003 **FLOOR DRAIN DETAIL**
NOT TO SCALE



2 P003 **FLOOR SINK DETAIL**
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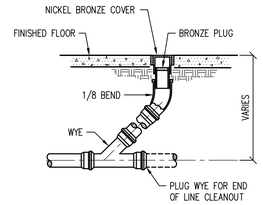

3 P003 **FLOOR CLEANOUT DETAIL**
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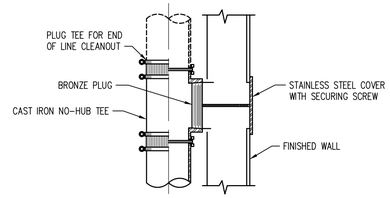

4 P003 **WALL CLEANOUT DETAIL**
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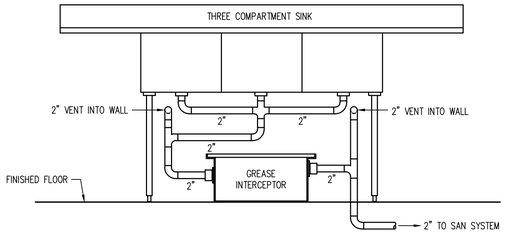


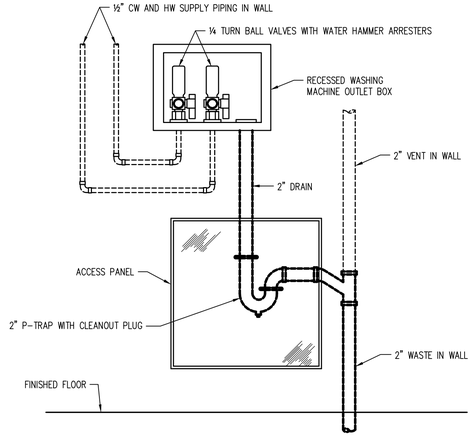
5 P003 **THREE COMPARTMENT SINK DETAIL**
NOT TO SCALE

GREASE INTERCEPTOR SIZING

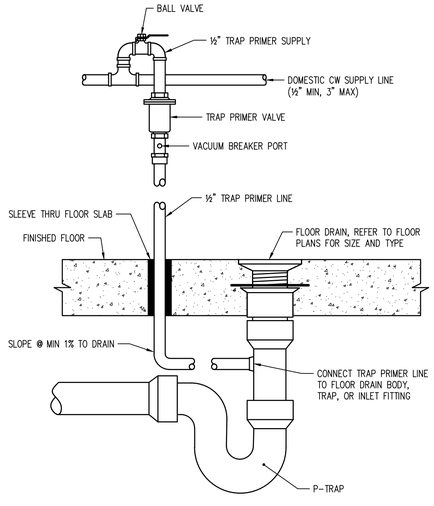
(1) 3 COMPARTMENT SINK W/ 16" X 20" X 12" BOWLS
(16x20x12)(3) = 11,520 CUBIC INCHES / 231 = 50 GALLONS
50 GALLONS x 75% LOADING FACTOR = 37 GALLONS
FOR A 2 MINUTE DRAINAGE PERIOD = 19 GPM

TOTAL = 19 GPM

GREASE INTERCEPTOR: ASHLAND MODEL 4820, 20 GPM FLOW, 40 LBS GREASE CAPACITY, WITH FLOW CONTROL, 2" INLET AND OUTLET, BOLTED AND GASKETED COVER. INSTALL INTERCEPTOR ON FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND CODE COMPLIANT INSTALLATION.

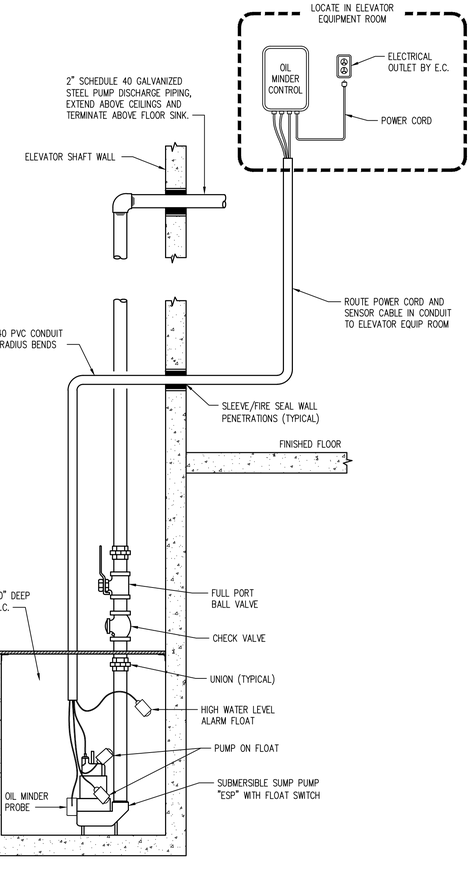


6 P003 **WASHING MACHINE OUTLET BOX DETAIL**
NOT TO SCALE



TRAP PRIMER NOTES:
1. PROVIDE TRAP PRIMER VALVES FOR ALL FLOOR DRAINS, EXCEPT SHOWER DRAINS.
2. TRAP PRIMER VALVES SHALL BE SIOUX CHIEF PRIME PERFECT SERIES 695, OR EQUAL.
3. CONNECT TRAP PRIMER VALVE TO CW LINE: ½" MIN. – 3" MAX.
4. PROVIDE SIOUX CHIEF WYE SPLITTER AND/OR DISTRIBUTOR FOR TRAP PRIMER VALVES SERVING MORE THAN ONE FLOOR DRAIN.
5. MAXIMUM OF EIGHT FLOOR DRAINS MAY BE SERVED BY ONE TRAP PRIMER VALVE.

7 P003 **TRAP PRIMER DETAIL**
NOT TO SCALE



8 P003 **ELEVATOR SUMP PUMP DETAIL**
NOT TO SCALE

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REVISIONS		
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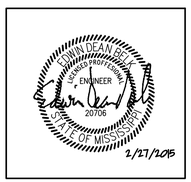
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

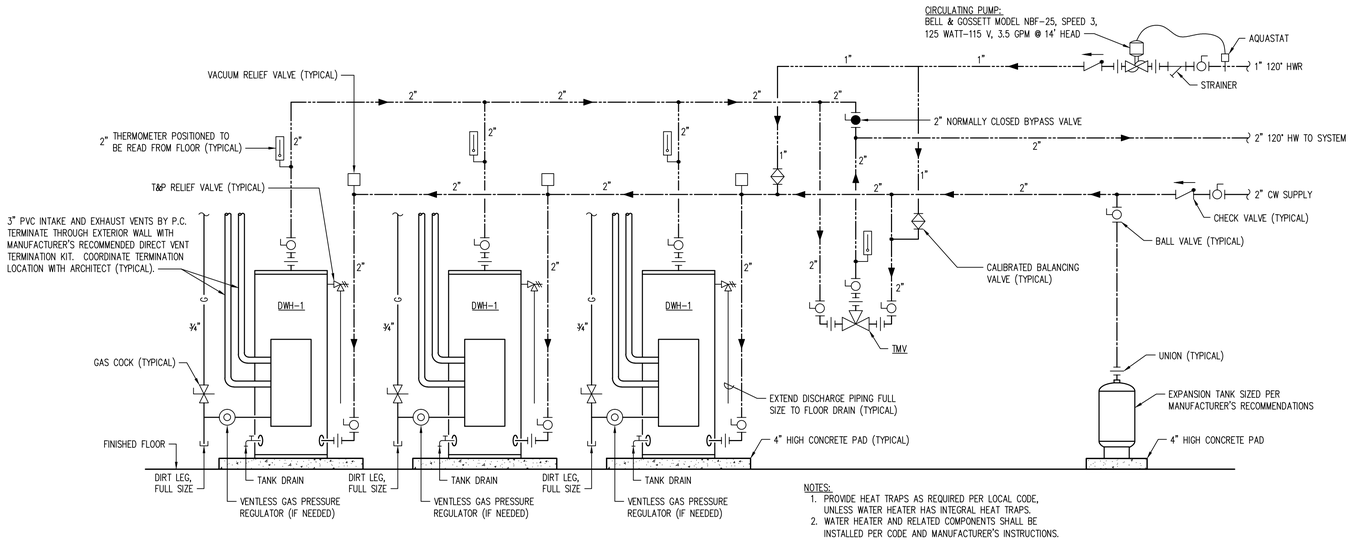
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing Details

Phase
Construction Documents

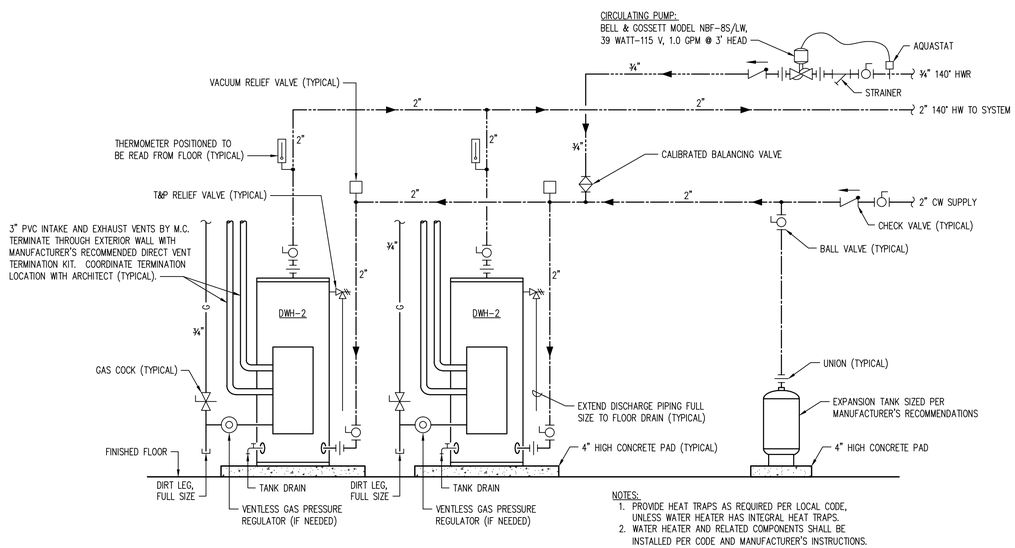
Project No.	14-081	Sheet No.	P003
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites



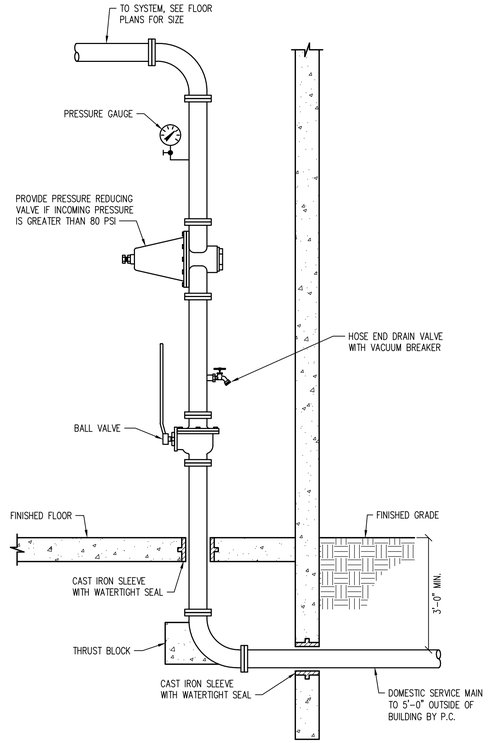
1 P004 **GUEST ROOM WATER HEATER DETAIL**

NOT TO SCALE



2 P004 **LAUNDRY AND PANTRY WATER HEATER DETAIL**

NOT TO SCALE



3 P004 **DOMESTIC SERVICE RISER DETAIL**

NOT TO SCALE

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REVISIONS		
No.	Date	Description
1		

EDWIN DEAN BERRY JR. 20706 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

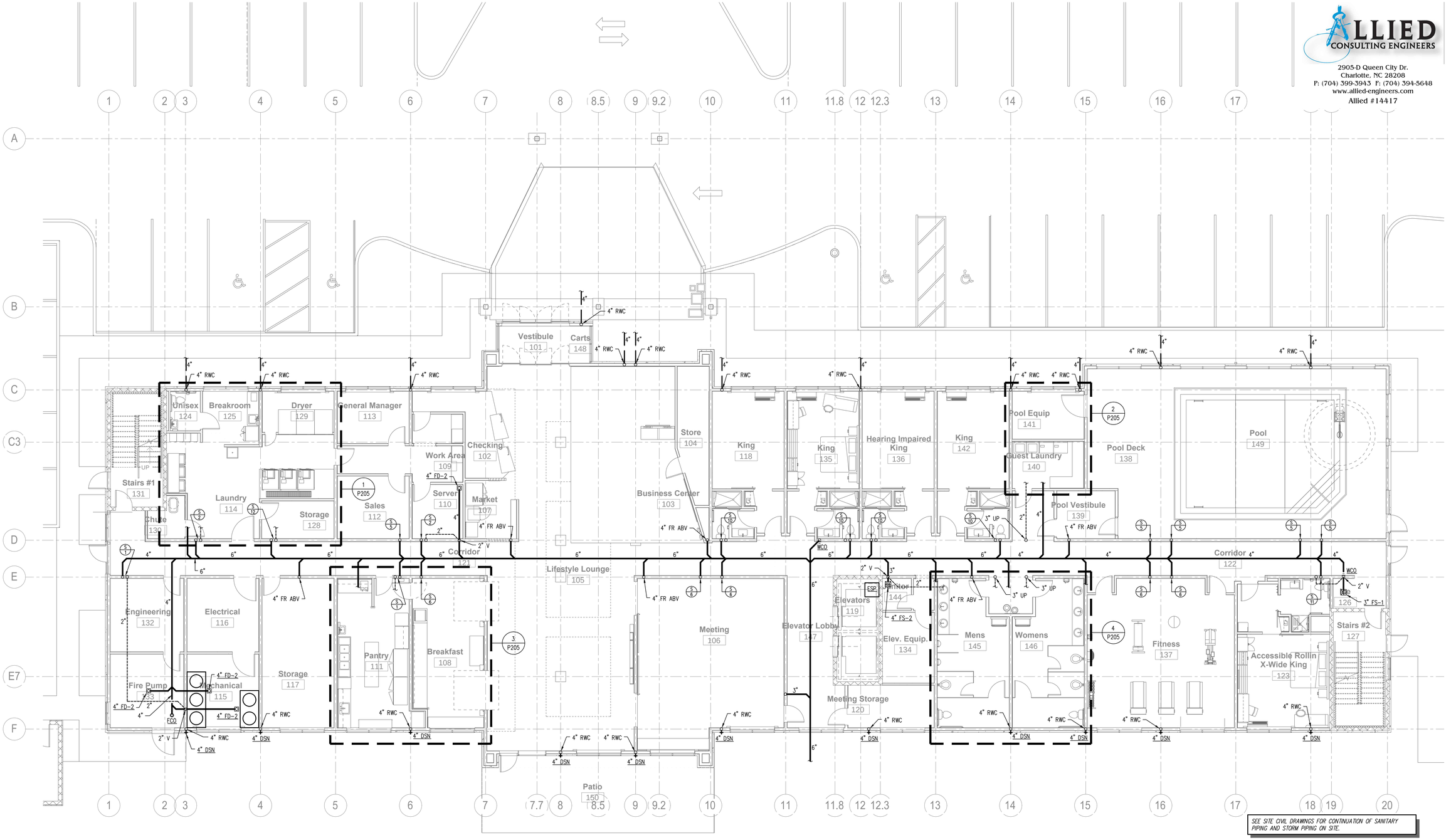
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing Details

Phase
Construction Documents

Project No.	14-081
Prepared by	MJS
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	P004

Holiday Inn Express & Suites



1 P100 FIRST FLOOR PLAN - SANITARY AND STORM

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

SEE SITE CIVIL DRAWINGS FOR CONTINUATION OF SANITARY PIPING AND STORM PIPING ON SITE.

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR PIPING IN GUEST ROOMS.

SEE SANITARY & VENT PIPING RISER DIAGRAMS ON SHEETS P.301 THROUGH P.303 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING AND ALL STORM PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

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REVISIONS		
No.	Date	Description
1		

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

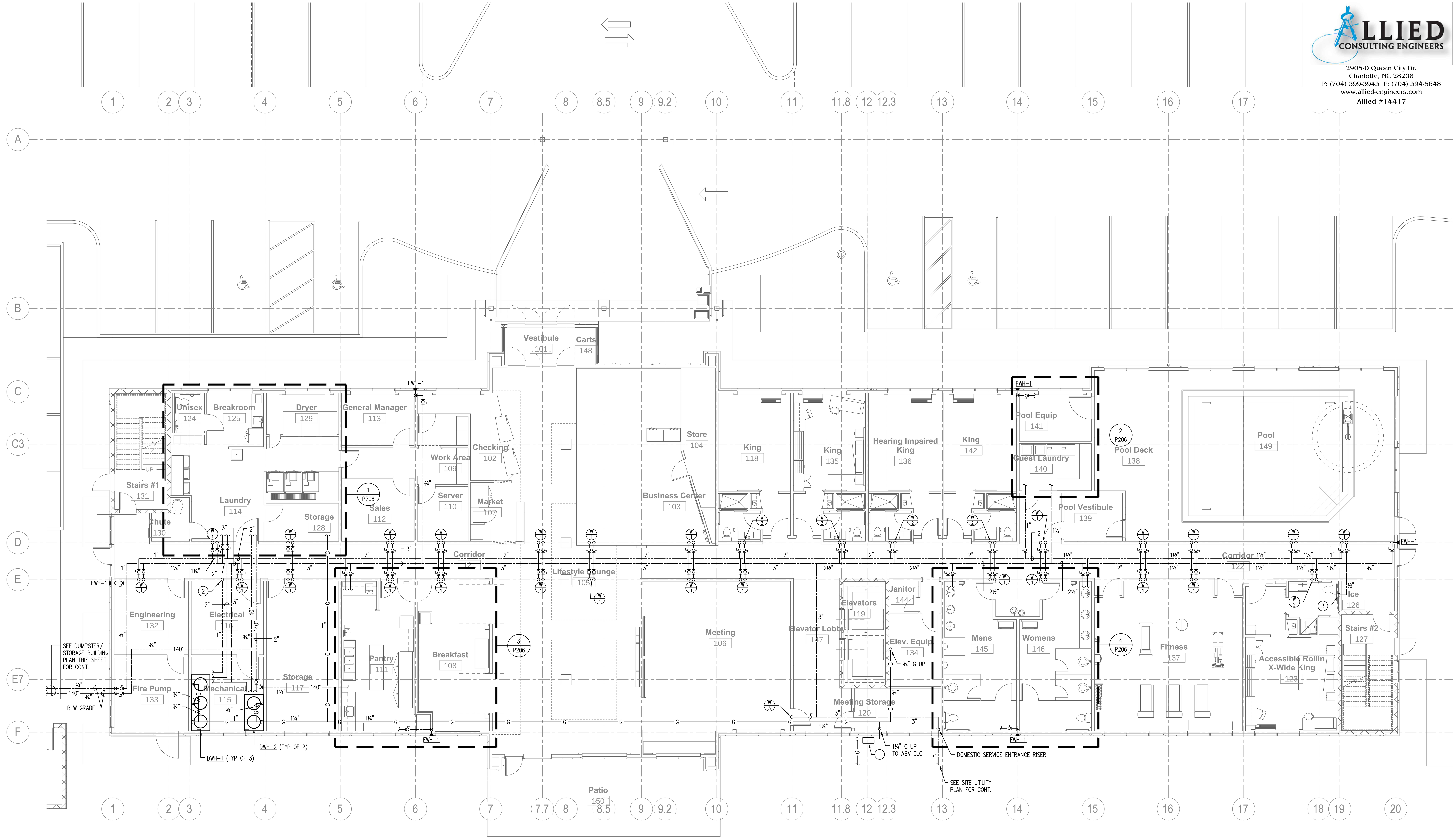
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
First Floor Plan
Sanitary and Storm

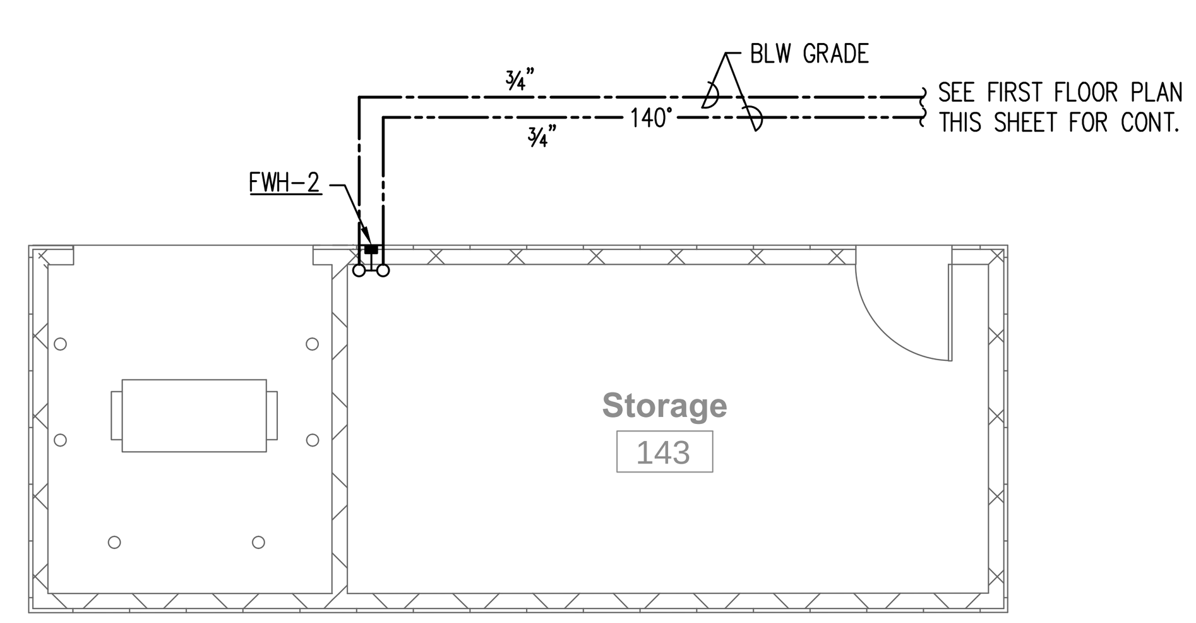
Phase
Construction Documents

Project No.	14-081	Sheet No.	P100
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites



1 FIRST FLOOR PLAN - WATER AND GAS
P101 SCALE: 1/8" = 1'-0"



2 DUMPSTER/STORAGE BUILDING PLAN
P101 SCALE: 1/8" = 1'-0"

KEYED NOTES THIS SHEET

1. COORDINATE GAS SERVICE WITH LOCAL GAS COMPANY. TOTAL CONNECTED LOAD = 1544.7 MBH, SYSTEM DEVELOPED LENGTH = 300', SYSTEM PRESSURE = 2 PSI.
2. 1" HWR FROM ABOVE.
3. CONNECT ½" CW TO ICE MACHINE WITH BALL VALVE AND WATTS SERIES LF7 DUAL CHECK VALVE. VERIFY EXACT LOCATION AND SIZE OF CONNECTION WITH EQUIPMENT SUPPLIER.

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P203 AND P204 FOR PIPING IN GUEST ROOMS.

SEE WATER PIPING RISER DIAGRAMS ON SHEET P304 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

ALL WATER PIPING AND ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

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REVISIONS

No.	Date	Description
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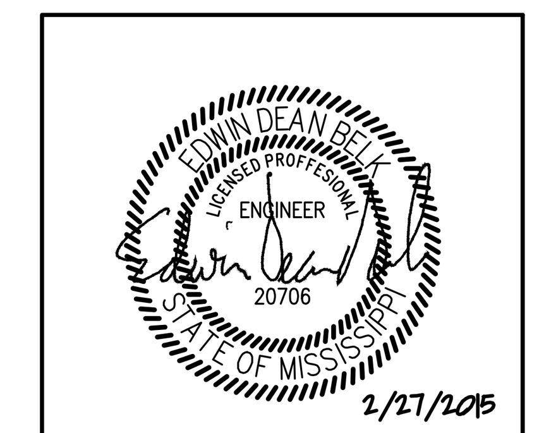

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
First Floor Plan
Water and Gas

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MJS	P101
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

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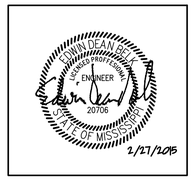
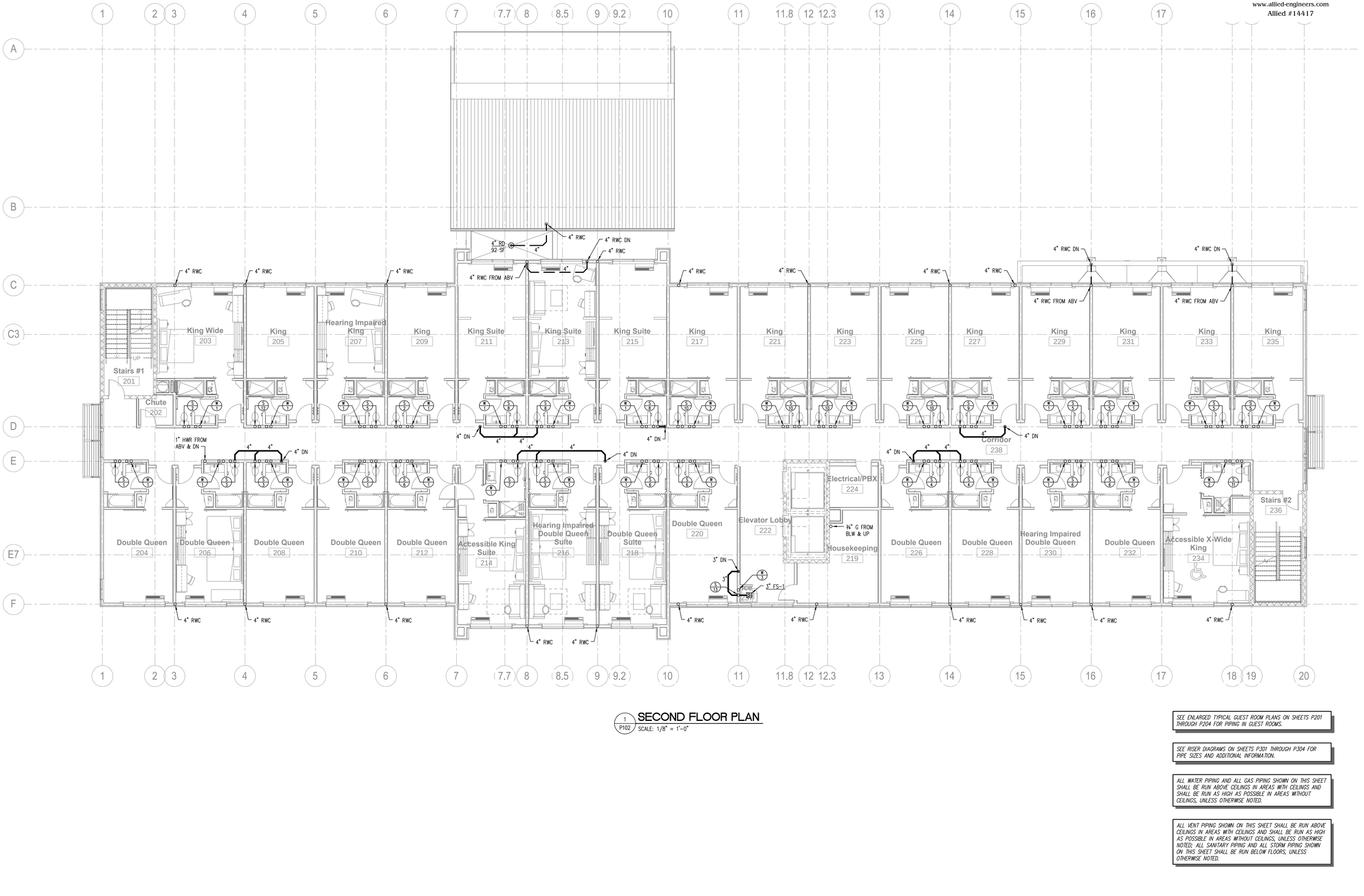
No.	Date	Description
1		



KEY PLAN



1 P102 SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P.201 THROUGH P.204 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEETS P.301 THROUGH P.304 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

ALL WATER PIPING AND ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING AND ALL STORM PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Second Floor Plan

Phase
Construction Documents

Project No.	14-081
Prepared by	MJS
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	P102

Holiday Inn Express & Suites

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

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P.201 THROUGH P.204 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEETS P.301 THROUGH P.304 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

ALL WATER PIPING AND ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

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No.	Date	Description
1		

EDWIN DEAN SICK
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20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Third Floor Plan

Phase
Construction Documents

Project No.	14-081
Prepared by	MJS
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	P103

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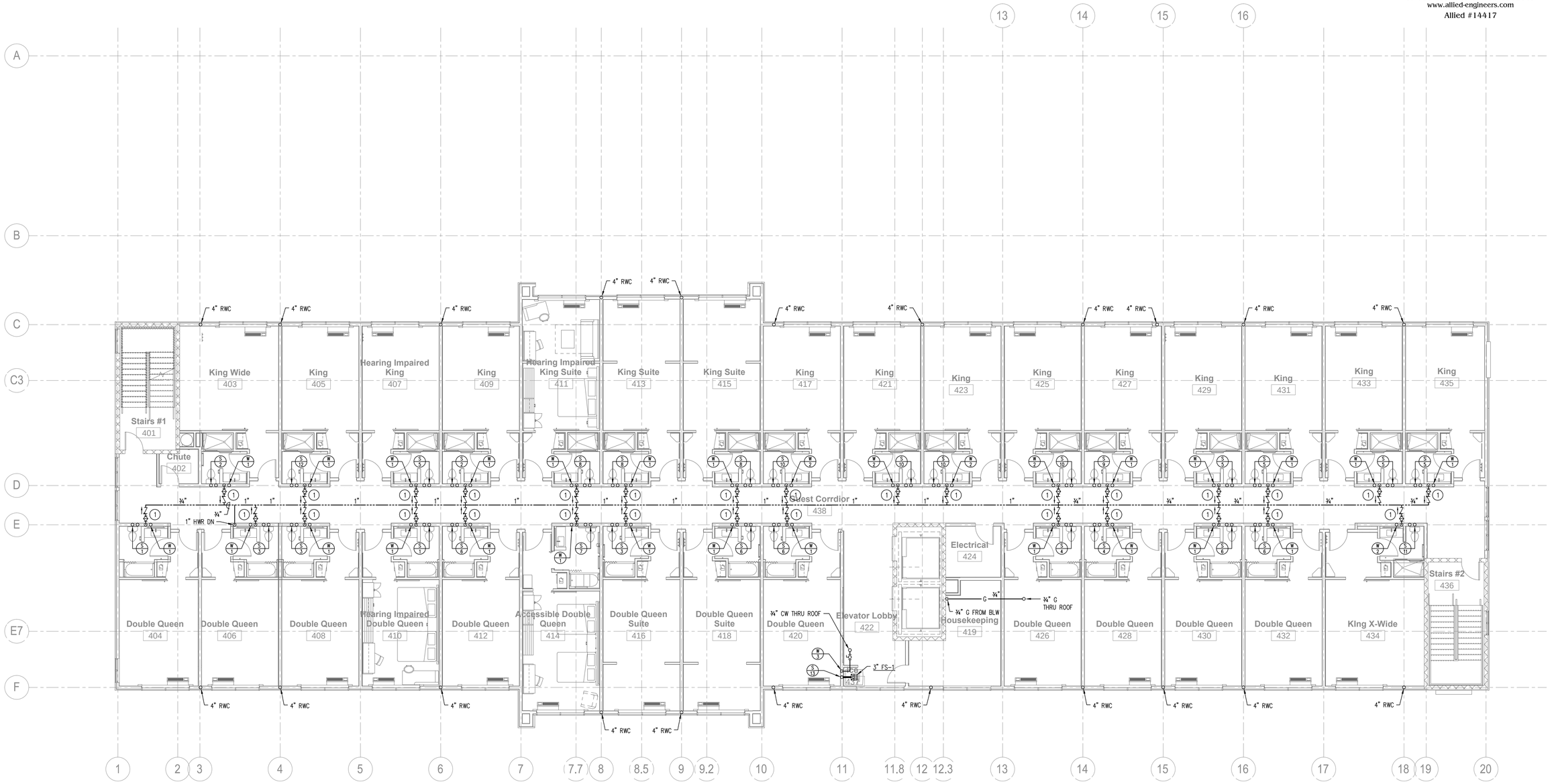

1 P104 FOURTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES THIS SHEET

1 BALANCING STATION: PROVIDE BRONZE CALIBRATED BALANCING VALVE, CHECK VALVE, AND THERMOWELL.

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P.201 THROUGH P.204 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEETS P.301 THROUGH P.304 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

ALL WATER PIPING AND ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

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No.	Date	Description
1		

JOHN DEAN GERICK
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REGISTERED PROFESSIONAL
ENGINEER
20706
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Fourth Floor Plan

Phase
Construction Documents

Project No.	14-081
Prepared by	MJS
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	P104

Holiday Inn Express & Suites

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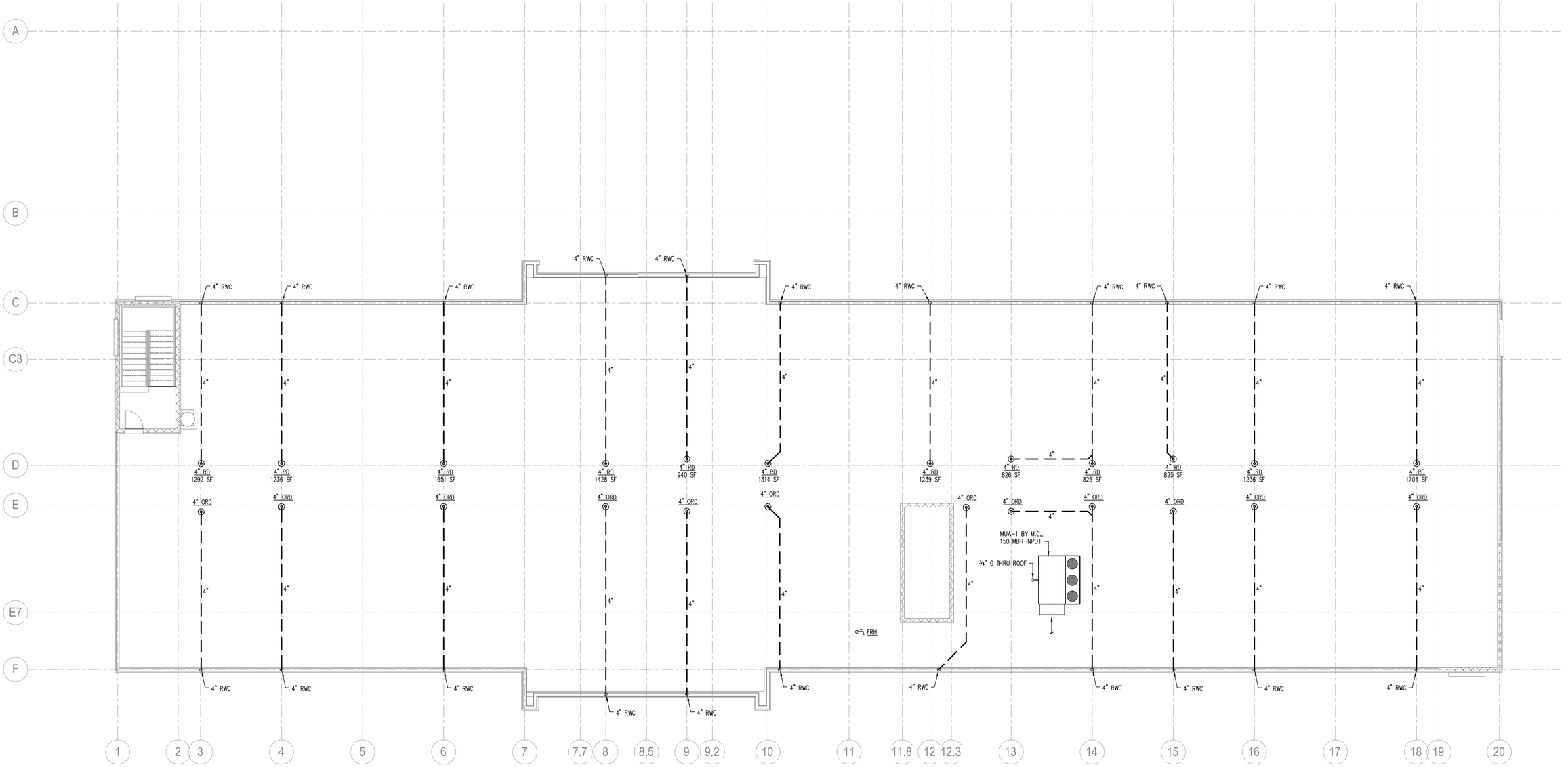


1 P105 ROOF PLAN
SCALE: 1/8" = 1'-0"

ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ON ROOF, UNLESS OTHERWISE NOTED.

ALL MAIN ROOF DRAINS, OVERFLOW ROOF DRAINS, AND ASSOCIATED STORM PIPING SIZED FOR 100-YEAR, 1-HOUR RAINFALL RATE OF 3.75 INCHES/HOUR AT 1% SLOPE.

ALL STORM PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW ROOF, ABOVE FOURTH FLOOR CEILINGS, UNLESS OTHERWISE NOTED.

REVISIONS		
No.	Date	Description
1		

TOWN DEAN SMITH
LICENSED PROFESSIONAL
ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

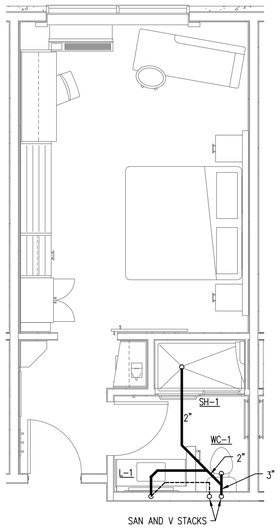
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Roof Plan

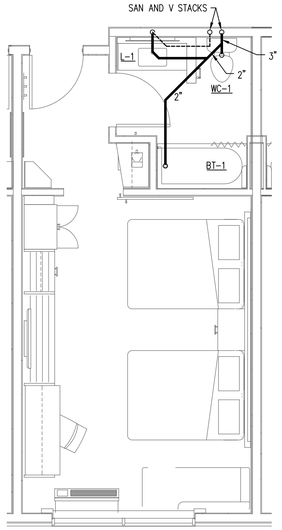
Phase
Construction Documents

Project No.	14-081	Sheet No.	P105
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

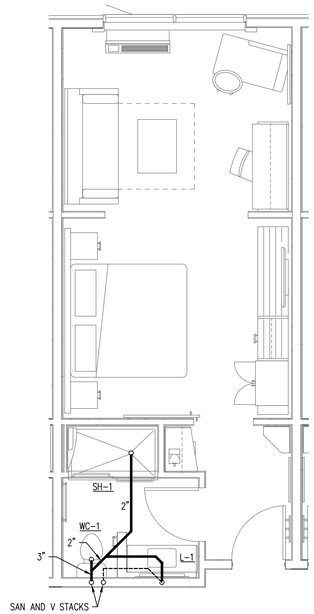
Holiday Inn Express & Suites



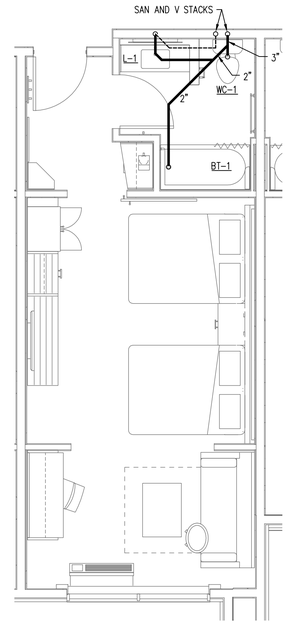
1 P201 **KING**
SCALE: 1/4" = 1'-0"



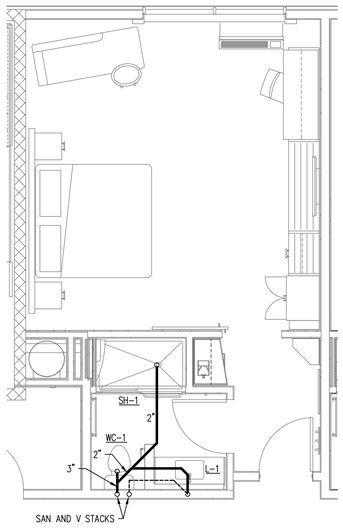
2 P201 **DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



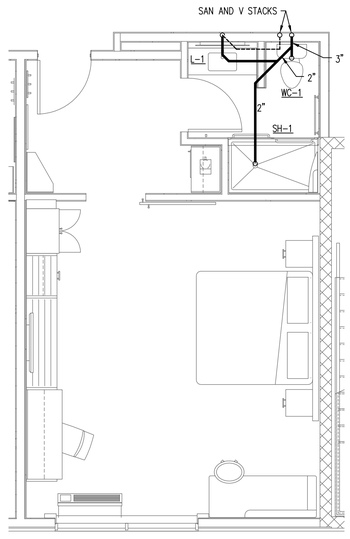
3 P201 **KING SUITE**
SCALE: 1/4" = 1'-0"



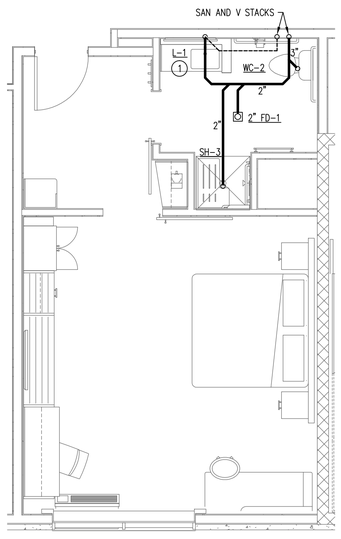
4 P201 **DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



5 P201 **KING WIDE**
SCALE: 1/4" = 1'-0"



6 P201 **KING X-WIDE**
SCALE: 1/4" = 1'-0"



7 P201 **ACCESSIBLE ROLLIN X-WIDE KING**
SCALE: 1/4" = 1'-0"

KEYED NOTES THIS SHEET

1. IN LIEU OF SPECIFIED P-TRAP, PROVIDE ZURN Z1021 WATER SAVER TRAP PRIMER P-TRAP WITH CLEANOUT PLUG AND PRIMER HOSE. CONNECT ½" TRAP PRIMER LINE TO PRIMER HOSE, DROP DOWN IN WALL TO BELOW BELOW FLOOR, AND EXTEND BELOW FLOOR TO CONNECTION ON FLOOR DRAIN.

GUEST ROOM PIPING LAYOUTS ARE TYPICAL FOR EACH TYPE OF GUEST ROOM INDICATED. SEE FLOOR PLANS FOR ROOM LOCATIONS AND ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

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REVISIONS		
No.	Date	Description
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EDWIN DEAN SELLERS PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Enlarged Guest Room Plans
Sanitary

Phase
Construction Documents

Project No.	14-081	Sheet No.	P201
Prepared by	MJS		
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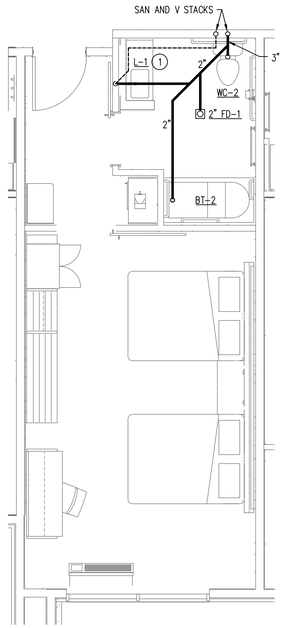
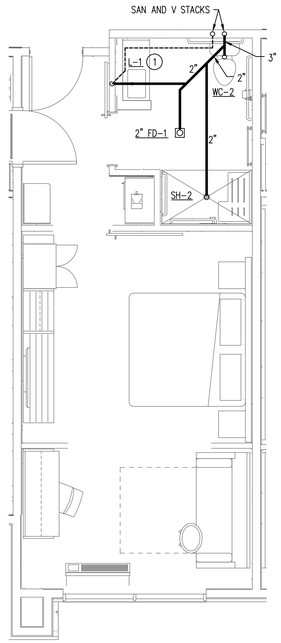
Date	Feb. 27, 2015		

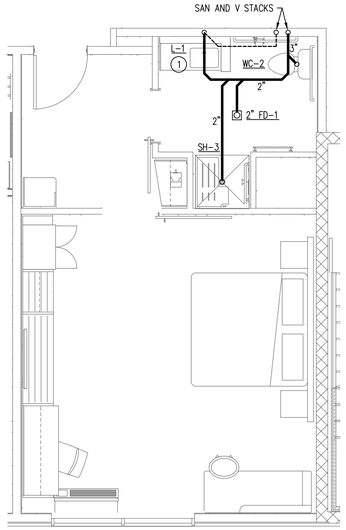
Holiday Inn Express & Suites



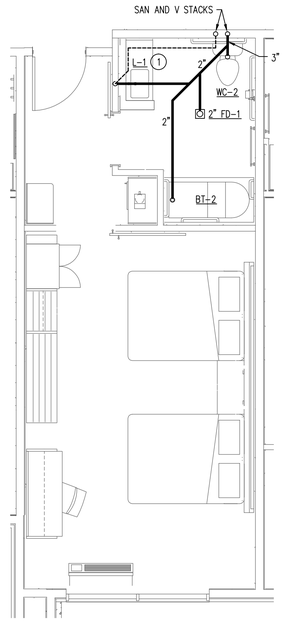
1 P202 **ACCESSIBLE DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



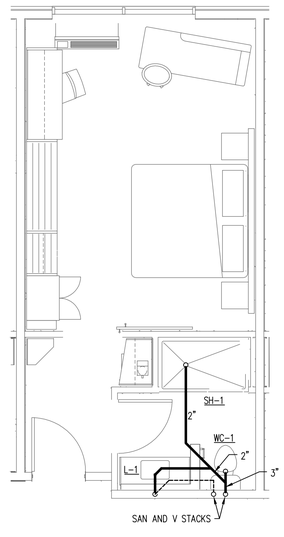
2 P202 **ACCESSIBLE KING SUITE**
SCALE: 1/4" = 1'-0"



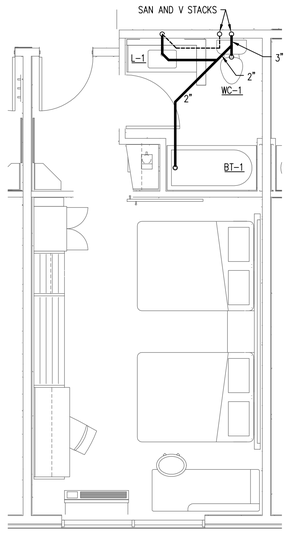
3 P202 **ACCESSIBLE X-WIDE KING**
SCALE: 1/4" = 1'-0"



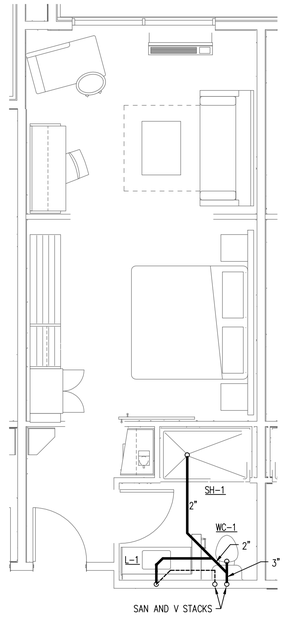
4 P202 **ACCESSIBLE DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



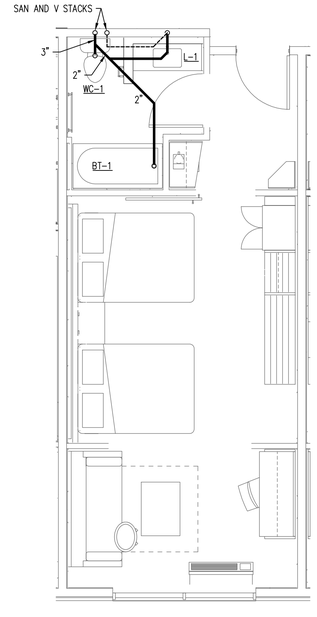
5 P202 **HEARING IMPAIRED KING**
SCALE: 1/4" = 1'-0"



6 P202 **HEARING IMPAIRED DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



7 P202 **HEARING IMPAIRED KING SUITE**
SCALE: 1/4" = 1'-0"



8 P202 **HEARING IMPAIRED DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"

KEYED NOTES THIS SHEET

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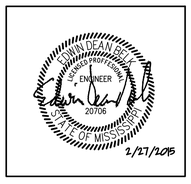


KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

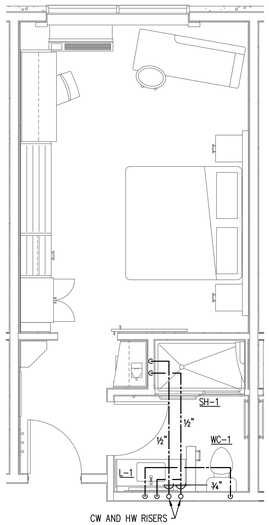
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Enlarged Guest Room Plans
Sanitary

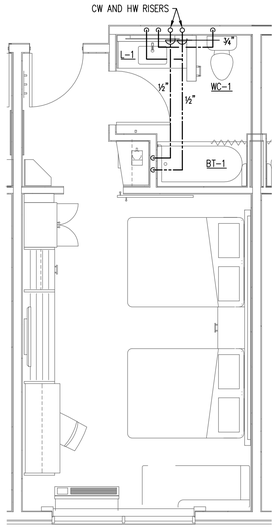
Phase
Construction Documents

Project No.	14-081	Sheet No.	P202
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

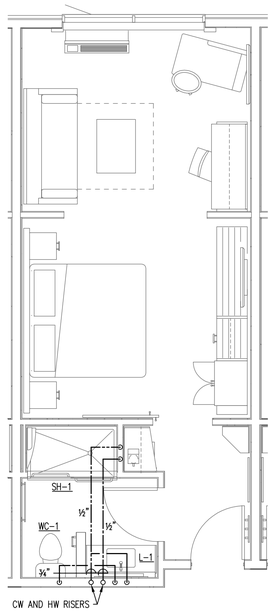
Holiday Inn Express & Suites



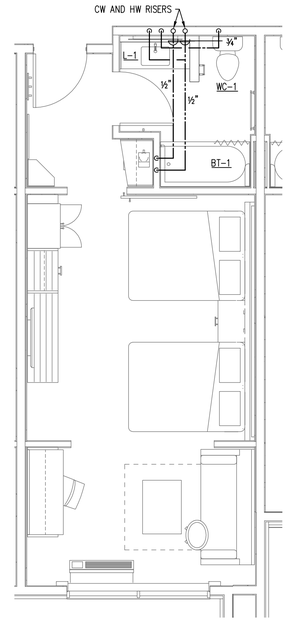
1 P203 **KING**
SCALE: 1/4" = 1'-0"



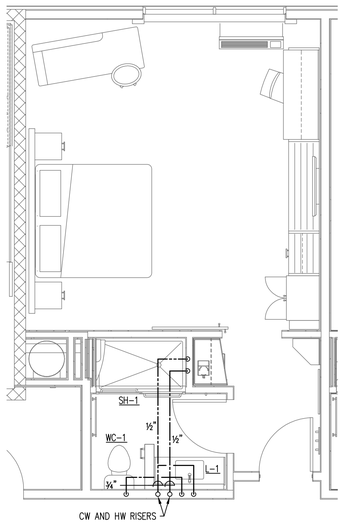
2 P203 **DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



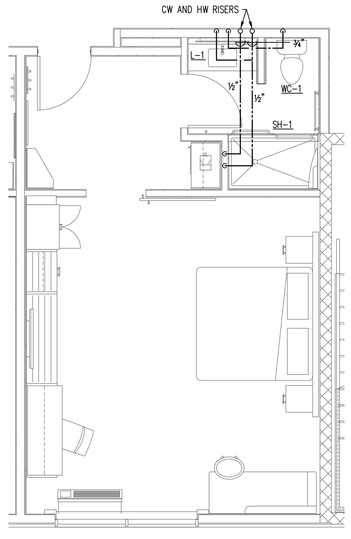
3 P203 **KING SUITE**
SCALE: 1/4" = 1'-0"



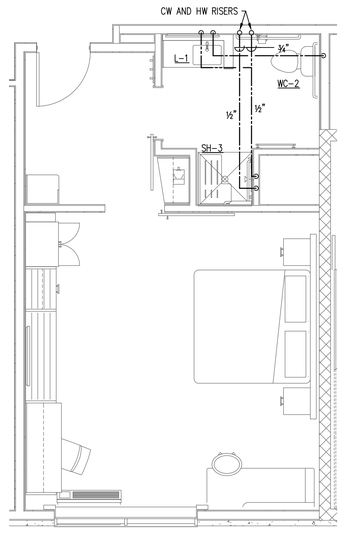
4 P203 **DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



5 P203 **KING WIDE**
SCALE: 1/4" = 1'-0"



6 P203 **KING X-WIDE**
SCALE: 1/4" = 1'-0"



7 P203 **ACCESSIBLE ROLLIN X-WIDE KING**
SCALE: 1/4" = 1'-0"

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EDWIN DEAN BELL
REGISTERED PROFESSIONAL
ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

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Southaven, MS 38671

Drawing Title
Plumbing
Enlarged Guest Room Plans
Water

Phase
Construction Documents

Project No.	14-081	Sheet No.	P203
Prepared by	MJS		
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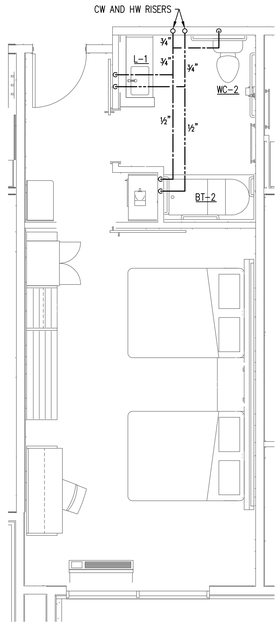
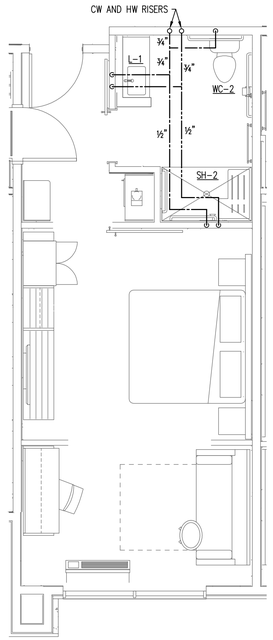
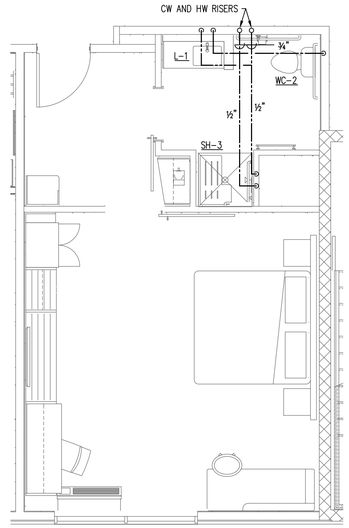
Holiday Inn Express & Suites



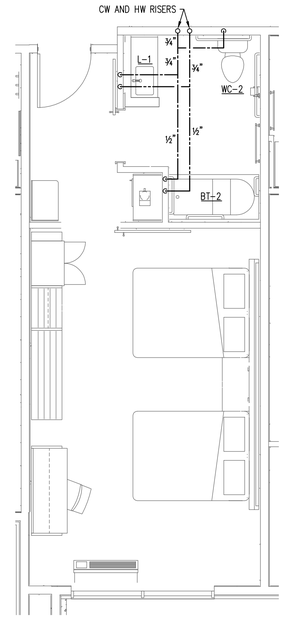
1 P204 **ACCESSIBLE DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



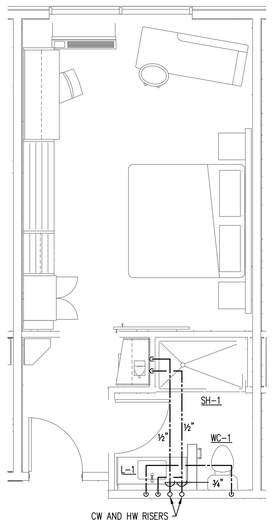
2 P204 **ACCESSIBLE KING SUITE**
SCALE: 1/4" = 1'-0"



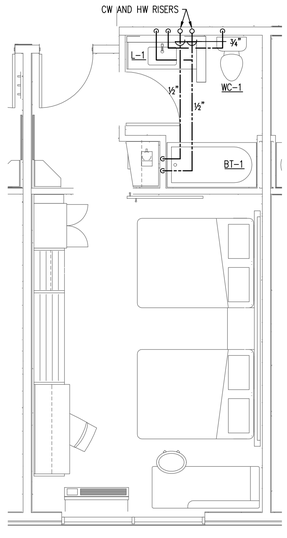
3 P204 **ACCESSIBLE X-WIDE KING**
SCALE: 1/4" = 1'-0"



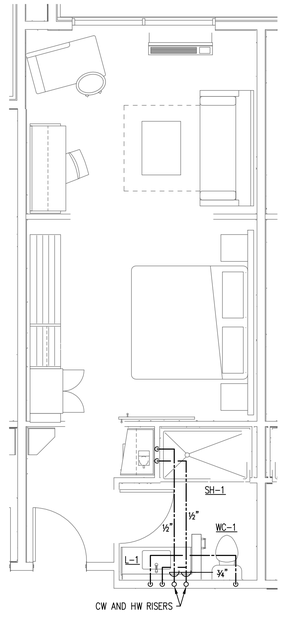
4 P204 **ACCESSIBLE DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



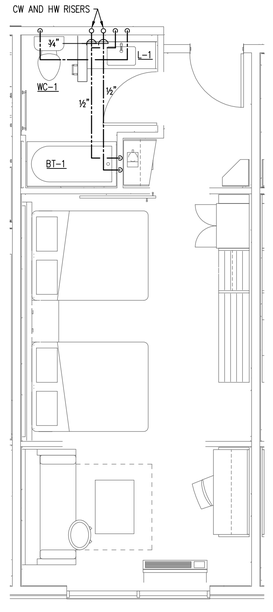
5 P204 **HEARING IMPAIRED KING**
SCALE: 1/4" = 1'-0"



6 P204 **HEARING IMPAIRED DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



7 P204 **HEARING IMPAIRED KING SUITE**
SCALE: 1/4" = 1'-0"



8 P204 **HEARING IMPAIRED DOUBLE QUEEN SUITE**
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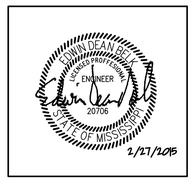

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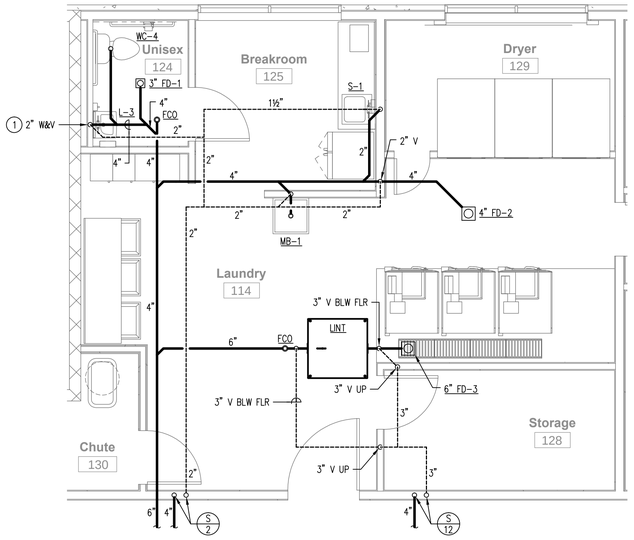
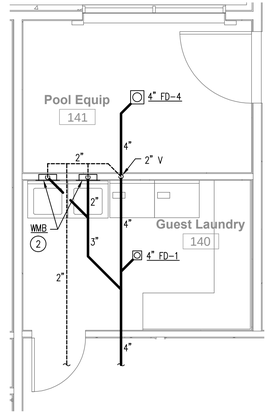
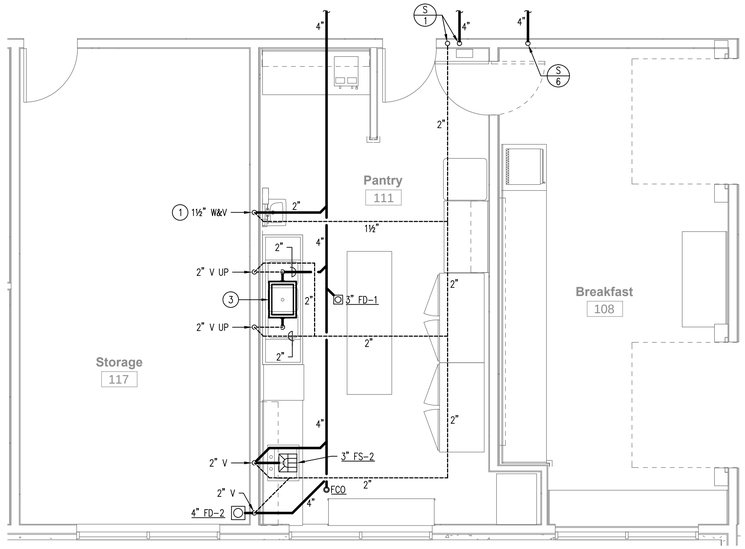


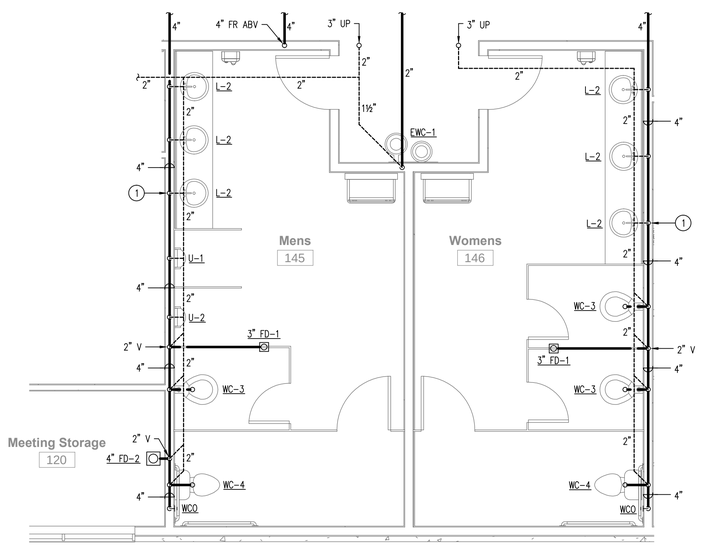
1 P205 **LAUNDRY AREA PLAN**
SCALE: 1/4" = 1'-0"



2 P205 **POOL EQUIP AND GUEST LAUNDRY**
SCALE: 1/4" = 1'-0"



3 P205 **PANTRY AREA PLAN**
SCALE: 1/4" = 1'-0"



4 P205 **PUBLIC RESTROOMS**
SCALE: 1/4" = 1'-0"

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2. PROVIDE FILTROL-160 IN-LINE LINT FILTER MOUNTED ON WALL IN AN ACCESSIBLE LOCATION. CONNECT WASHING MACHINE DRAIN HOSE TO FILTER INLET, AND CONNECT HOSE PROVIDED WITH FILTER TO OUTLET AND TERMINATE IN WASHING MACHINE OUTLET BOX.
3. GREASE INTERCEPTOR SET ON FLOOR. REFER TO DETAIL #5 ON SHEET P003.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

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REVISIONS		
No.	Date	Description
1		

EDWIN DEAN BELL JR. REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

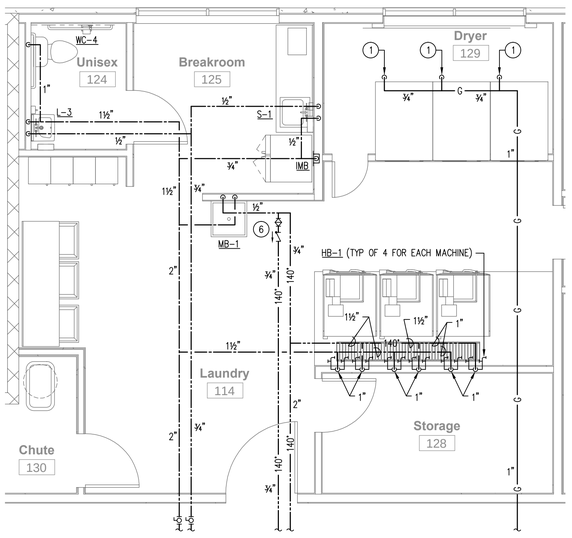
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Enlarged Plans
Sanitary

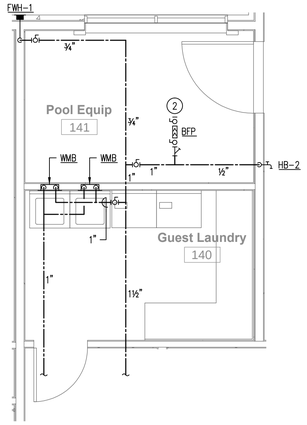
Phase
Construction Documents

Project No.	14-081	Sheet No.	P205
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

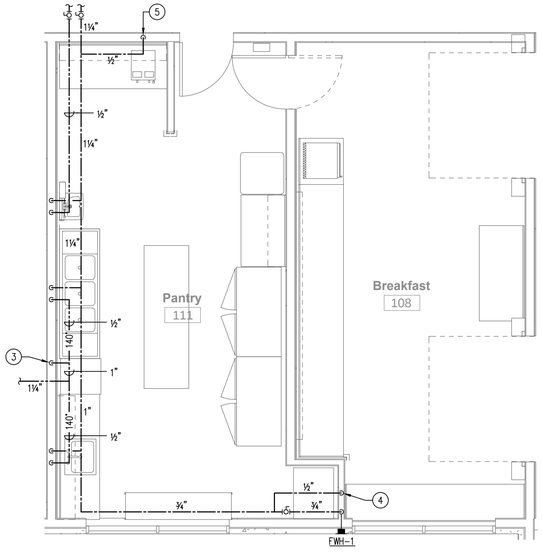
Holiday Inn Express & Suites



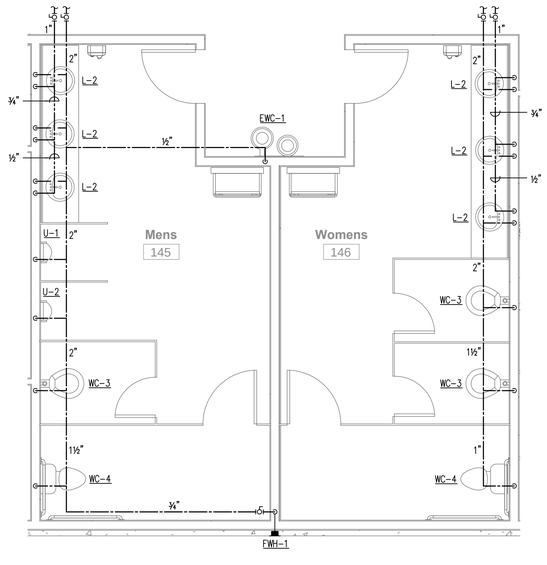
1 P206 **LAUNDRY AREA PLAN**
SCALE: 1/4" = 1'-0"



2 P206 **POOL EQUIP AND GUEST LAUNDRY**
SCALE: 1/4" = 1'-0"



3 P206 **PANTRY AREA PLAN**
SCALE: 1/4" = 1'-0"



4 P206 **PUBLIC RESTROOMS**
SCALE: 1/4" = 1'-0"

KEYED NOTES THIS SHEET

1. ¾" GAS TO DRYER, 165 MBH INPUT.
2. PROVIDE CW CONNECTION FOR POOL SYSTEM. VERIFY SIZE AND LOCATION OF CONNECTION WITH POOL EQUIPMENT CONTRACTOR.
3. CONNECT ½" HW TO DISHWASHER. PROVIDE BALL VALVE AND PROVIDE WATTS SERIES LF7 DUAL CHECK VALVE, UNLESS DISHWASHER HAS AN INTEGRAL BACKFLOW PREVENTER.
4. CONNECT ½" CW TO ICE MACHINE WITH BALL VALVE AND WATTS SERIES LF7 DUAL CHECK VALVE. VERIFY EXACT LOCATION AND SIZE OF CONNECTION WITH EQUIPMENT SUPPLIER.
5. CONNECT ½" CW TO COFFEE MACHINE WITH BALL VALVE AND WATTS SERIES LF7 DUAL CHECK VALVE. VERIFY EXACT LOCATION AND SIZE OF CONNECTION WITH EQUIPMENT SUPPLIER.
6. BALANCING STATION: PROVIDE BRONZE CALIBRATED BALANCING VALVE, CHECK VALVE, AND THERMOWELL.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF WATER CONNECTIONS TO INDIVIDUAL FIXTURES.

ALL WATER PIPING AND ALL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

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REVISIONS		
No.	Date	Description
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EDWIN DEAN SHIVA 20706 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Enlarged Plans
Water and Gas

Phase
Construction Documents

Project No.	14-081	Sheet No.	P206
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

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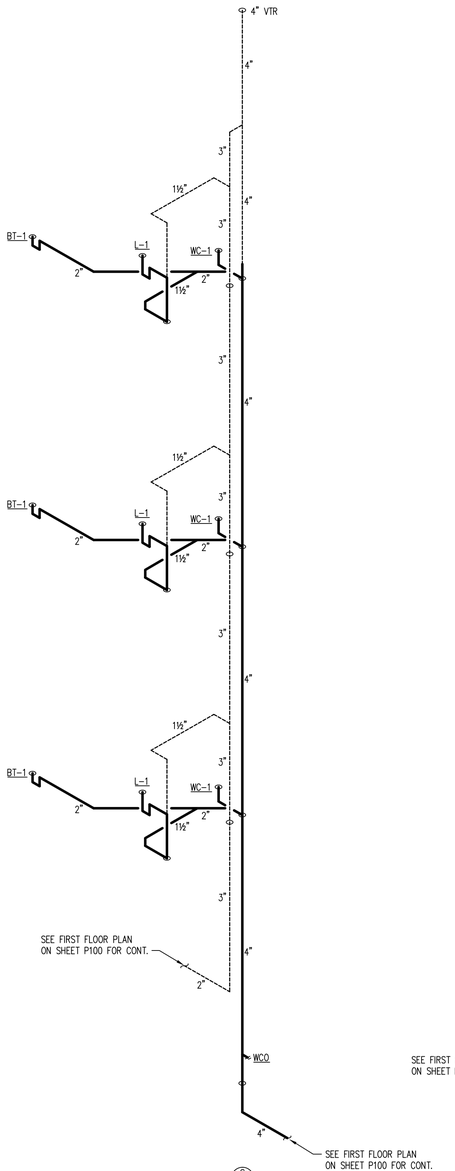
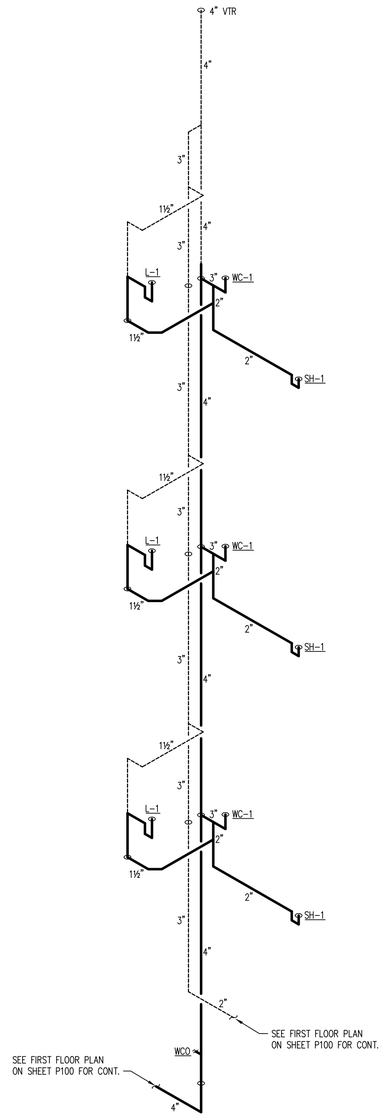


S 1



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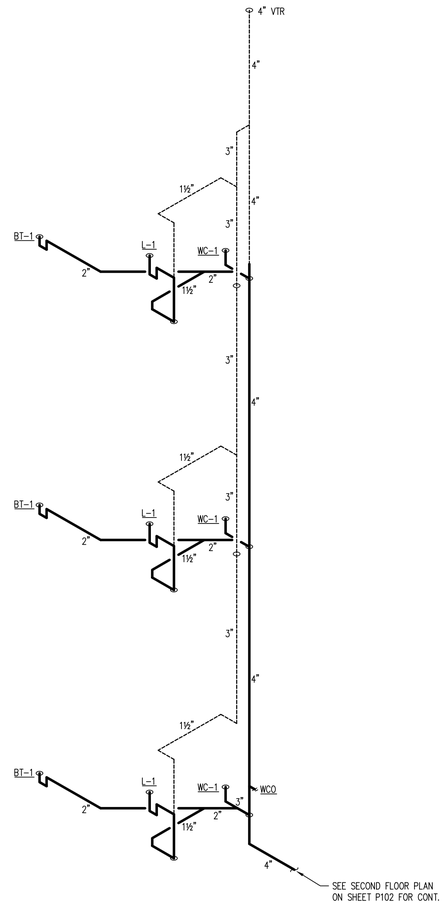

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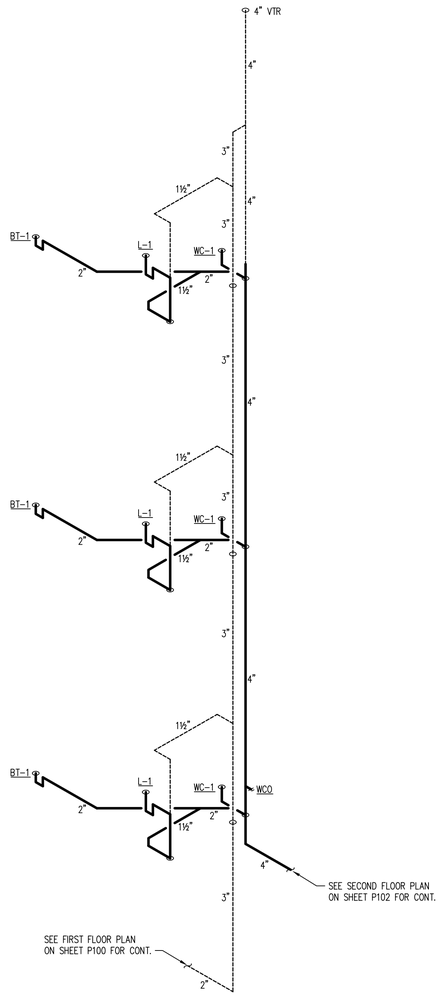

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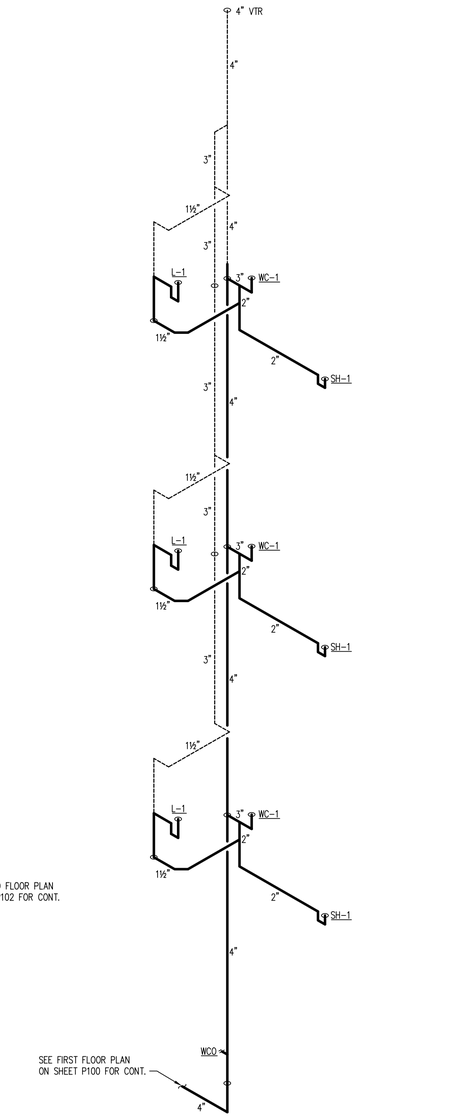

S 5

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

ALL RISER DIAGRAMS ARE SCHEMATIC AND ARE NOT TO SCALE. PROVIDE OFFSETS AS NECESSARY BETWEEN FLOORS.

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REVISIONS		
No.	Date	Description
1		

JOHN DEAN BECK
LICENSED PROFESSIONAL
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20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

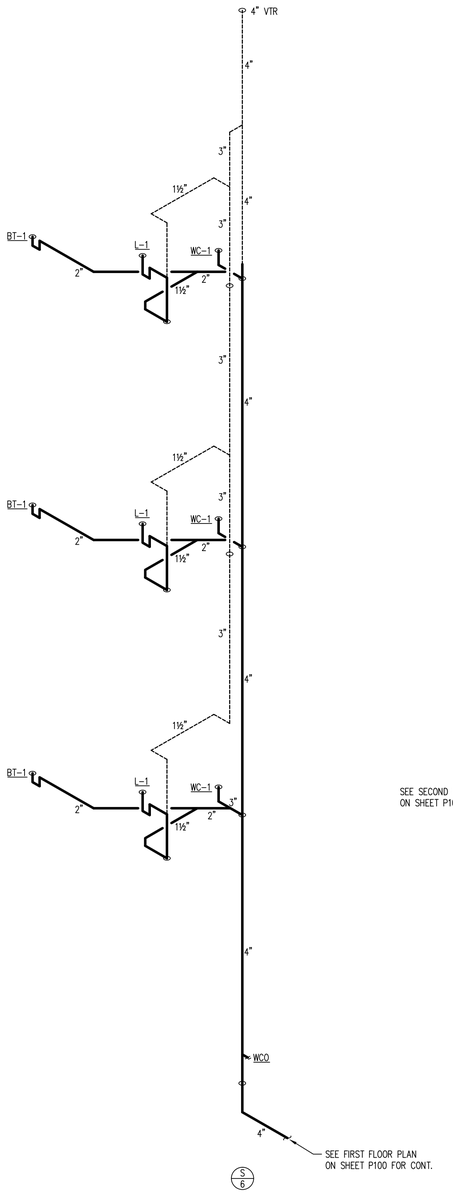
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Riser Diagrams
Sanitary

Phase
Construction Documents

Project No.	14-081	Sheet No.	P301
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites



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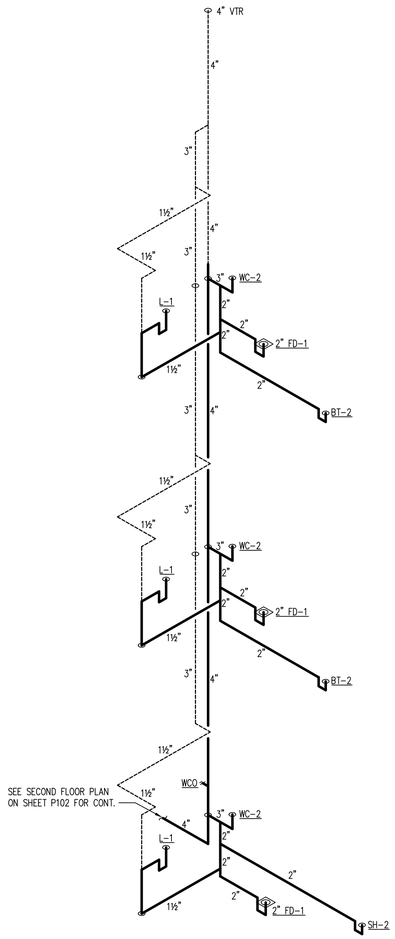

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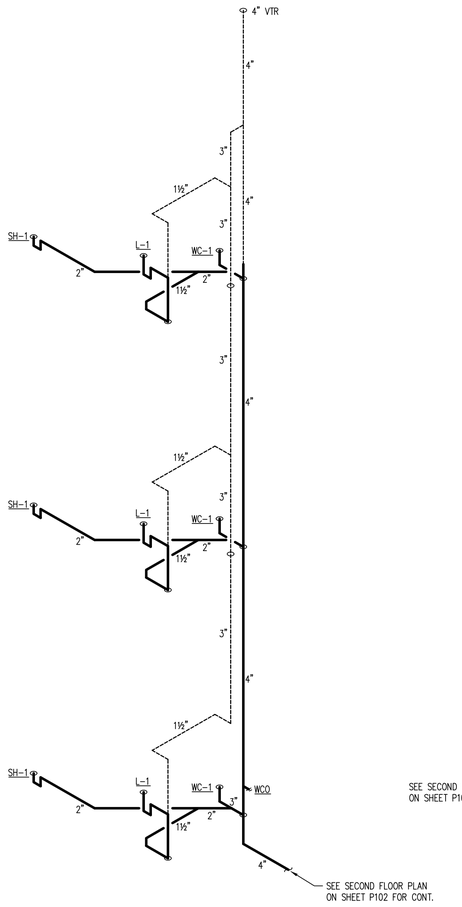

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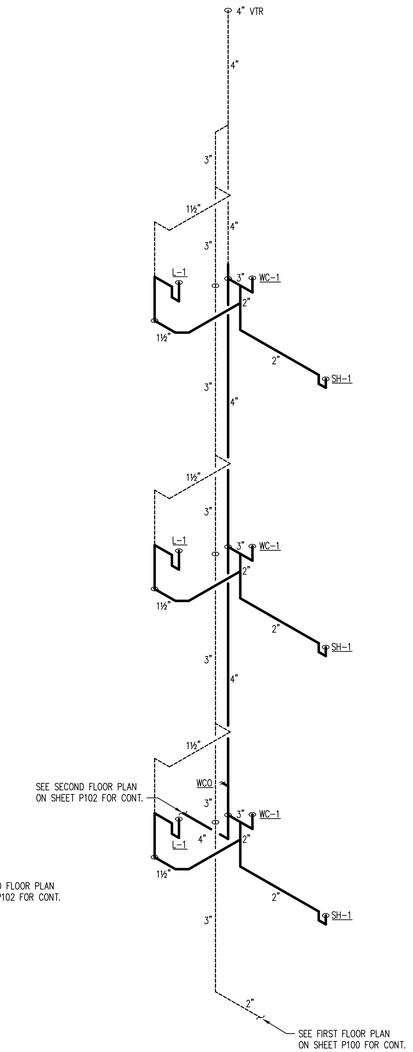
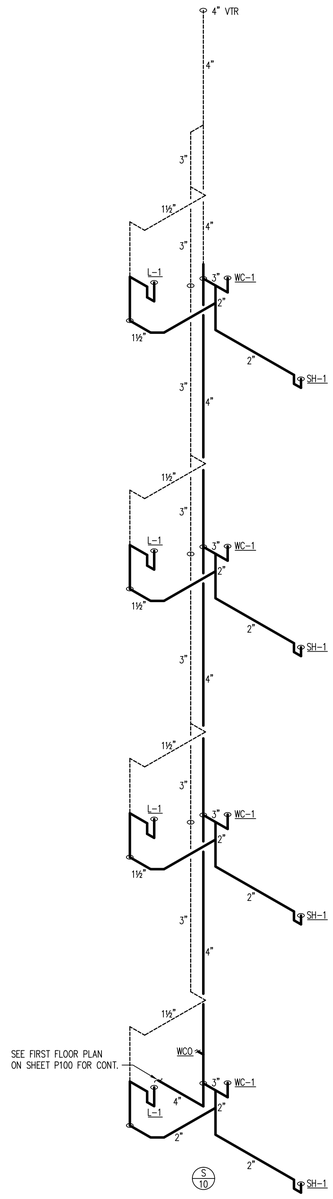


S 9



S 10

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

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No.	Date	Description
1		

EDWIN DEAN BERRY
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ENGINEER
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STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

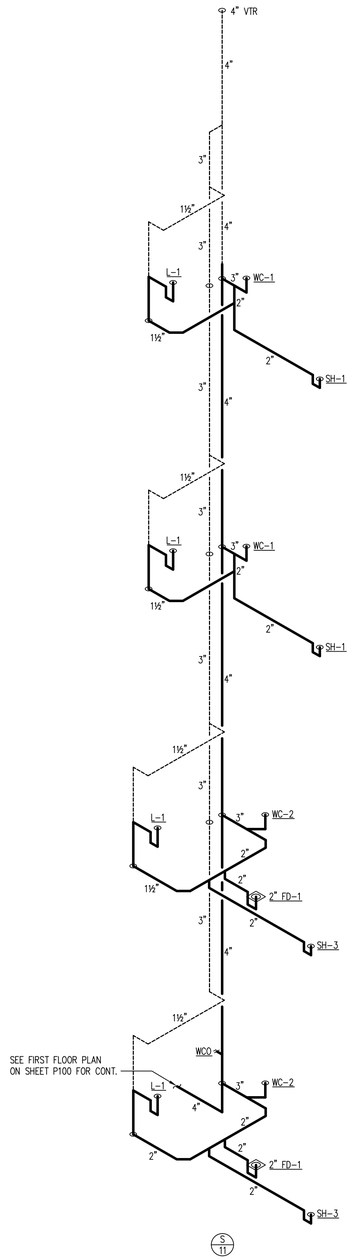
Drawing Title

Plumbing
Riser Diagrams
Sanitary

Phase
Construction Documents

Project No.	14-081	Sheet No.	P302
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites



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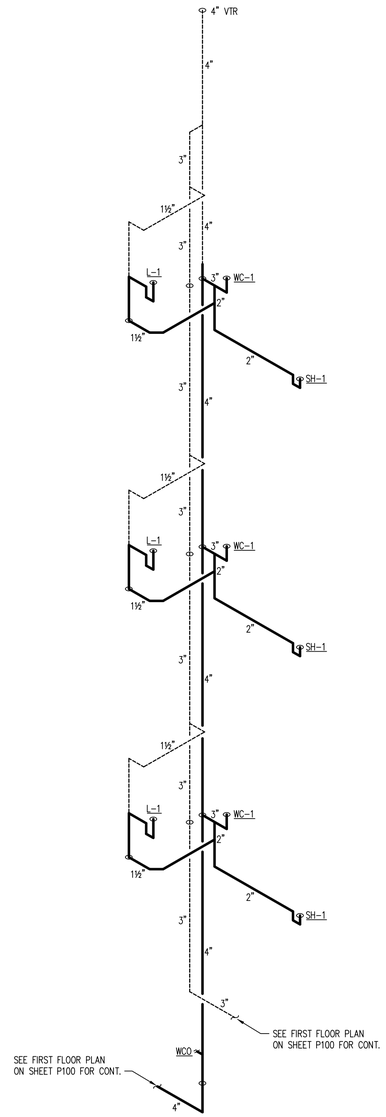
11



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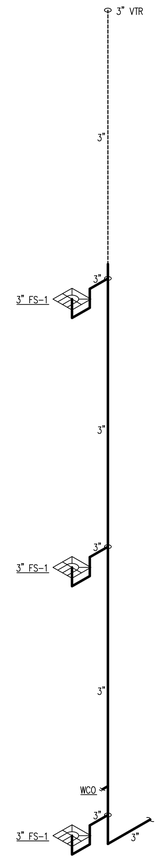
12



S
13

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

ALL RISER DIAGRAMS ARE SCHEMATIC AND ARE NOT TO SCALE. PROVIDE OFFSETS AS NECESSARY BETWEEN FLOORS.

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No.	Date	Description
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EDWIN DEAN BELK
LICENSED PROFESSIONAL
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20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

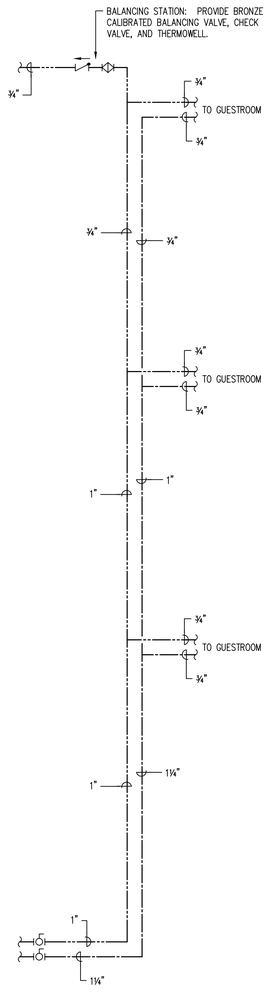
Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
Plumbing
Riser Diagrams
Sanitary

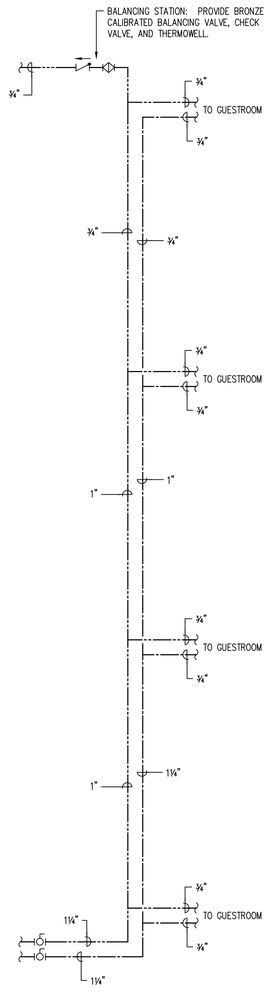
Phase
Construction Documents

Project No.	14-081	Sheet No.	P303
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

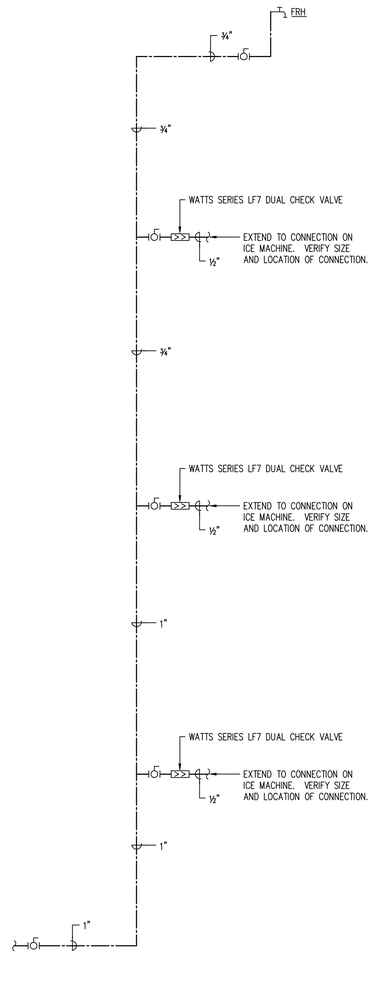
Holiday Inn Express & Suites



W 1



W 2



W 3

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P.203 AND P.204 FOR PIPING IN GUEST ROOMS.

SEE FIRST FLOOR PLAN ON SHEET P.101 AND FOURTH FLOOR PLAN ON SHEET P.104 FOR CONTINUATION OF ALL RISERS ON FIRST FLOOR AND FOURTH FLOOR.

ALL RISER DIAGRAMS ARE SCHEMATIC AND ARE NOT TO SCALE. PROVIDE OFFSETS AS NECESSARY BETWEEN FLOORS.

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No.	Date	Description
1		

EDWIN DEAN SIMS
REGISTERED PROFESSIONAL
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20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

Plumbing
Riser Diagrams
Water

Phase
Construction Documents

Project No.	14-081	Sheet No.	P304
Prepared by	MJS		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

ELECTRICAL SPECIFICATIONS

PART 1: GENERAL

A. PROVIDE ALL WORK AND MATERIALS FOR THE INSTALLATION OF COMPLETE WIRING SYSTEMS AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

B. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.

C. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.

D. THE ELECTRICAL CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS COMMERCIAL EXPERIENCE TO BE QUALIFIED TO PERFORM THE WORK HERE-IN. ANY CONTRACTOR THAT DOES NOT HAVE THE EXPERIENCE REQUIRED MAY BE REMOVED FROM THE PROJECT AT ANYTIME.

E. WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, OSHA, STATE BUILDING CODE AND ALL OTHER APPLICABLE LOCAL REQUIREMENTS. ALL WORK SHALL COMPLY WITH THE LATEST ADDITION OF NECA STANDARDS OF INSTALLATION.

F. ALL MATERIALS, DEVICES, AND APPLIANCES SHALL BE NEW, EXCEPT WHERE OTHERWISE NOTED, AND SHALL BE LISTED BY AN APPROVED TESTING AGENCY WHERE SUCH A LISTING IS AVAILABLE. FACTORY ASSEMBLED EQUIPMENT SHALL BE LISTED AND LABELED AS AN ASSEMBLY, ANY EQUIPMENT NOT LISTED SHALL HAVE PRIOR APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION. ALL MATERIALS SHALL COMPLY WITH APPLICABLE ANSI, IEEE AND NEMA STANDARDS.

G. PROVIDE ALL CUTTING, PATCHING, CHANNELING AND CHASING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE OF EXISTING OR NEW INSTALLATIONS AT THE CONTRACTORS EXPENSE.

H. SHOP DRAWINGS AND CATALOG DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING WORK. SUBMIT FOUR COPIES OF SHOP DRAWINGS FOR LIGHTING FIXTURES, LAMPS, BALLASTS AND PANELBOARDS. SUBMIT FOUR COPIED OF CATALOG DATA FOR DISCONNECT SWITCHES AND WIRING DEVICES.

I. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR PANELBOARDS, WIRING TROUGHS, AND FUSED SWITCHES, WHITE LETTERS ON BLACK FOR 120/208 VOLT SYSTEMS. LABEL ALL BREAKERS INSIDE THE PANEL NEXT TO THE BREAKER USING THE NUMBER SCHEME INDICATED ON THE DRAWINGS.

J. AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE ISSUED BY THE LOCAL INSPECTION AUTHORITIES BEFORE APPROVAL FOR FINAL PAYMENT.

K. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER N.E.C. ARTICLE 250 AND AS INDICATED ON THE DRAWINGS.

L. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

M. IF, DURING THE COURSE OF WORK, THE ELECTRICAL CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS OR NEC OR OTHER CODES, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.

N. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, UNLESS OTHERWISE NOTED, EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.

O. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(B) AND AS INDICATED ON THE DRAWINGS.

P. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY AND AS INDICATED ON THE DRAWINGS.

Q. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER.

PART 2: RACEWAY

A. CONDUIT SHALL BE ZINC-COATED EMT INDOORS. EMT FITTINGS SHALL BE STEEL SCREW. MINIMUM SIZE SHALL BE ½"C, UNLESS OTHERWISE NOTED. USE SCHEDULE 40 PVC OUTDOORS ABOVE 8'-0" OR BELOW GRADE. USE IMC WHERE REQUIRED BY CODE OR EXPOSED BELOW 8'-0".

B. SUPPORT ALL CONDUITS WITH STRAPS AND CLAMPS. RUN ALL CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING WALLS.

C. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED SHEET METAL.

D. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR EQUIPMENT CONNECTIONS, BUT NOT AS A WIRING METHOD OTHERWISE.

E. MC CABLE MAY BE USED AS A WIRING METHOD WHERE ALLOWED BY CODE.

F. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT CURB WHERE POSSIBLE.

G. CONDUIT INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATER-TIGHT BY USE OF POLYTETRA-FLUOROETHYLENE TAPE. AAPPROVED SEALS SHALL BE PROVIDED IN HAZARDOUS LOCATIONS AS REQUIRED BY THE N.E.C.

PART 3: CONDUCTORS

A. ALL CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER. THHN/THWN, SOLID FOR SIZES #14 THROUGH #10. THHN/THWN STRANDED FOR SIZES #8 AND LARGER.

B. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.

C. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY.

D. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.

E. ALL BRANCH CIRCUIT CONDUITS OR CABLE ASSEMBLIES SHALL CONTAIN AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER NEC 250-122.

F. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC ARTICLE 300-19.

G. ALL EQUIPMENT AND DEVICE TERMINATIONS SHALL BE UL LISTED FOR USE WITH 75°C INSULATED CONDUCTORS AT THEIR 75°C AMPACITY.

H. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR IN ALL BRANCH CIRCUITS.

PART 4: WIRING DEVICES

A. WIRING DEVICES SHALL BE ALMOND WITH MATCHING PLASTIC COVER PLATES, SPECIFICATION GRADE AS INDICATED BELOW, EQUAL TO THE COOPER QUALITY INDICATED.

TOGGLE SWITCHES SHALL BE AS FOLLOWS:

SINGLE POLE 20 AMP	COOPER 1221
DOUBLE POLE 20 AMP	COOPER 1222
THREE WAY 20 AMP	COOPER 1223
FOUR WAY 20 AMP	COOPER 1224
SINGLE POLE/KEY 20 AMP	COOPER 1221L
DOUBLE POLE/KEY 20 AMP	COOPER 1222L
THREE WAY/KEY 20 AMP	COOPER 1223L
FOUR WAY/KEY 20 AMP	COOPER 1224L

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5362
15 AMP DUPLEX-GFCI	COOPER GF5262
20 AMP DUPLEX-GFCI	COOPER GF5362
15 AMP DUPLEX-IG	COOPER IG5252
20 AMP DUPLEX-IG	COOPER IG5362
15 AMP DUPLEX-TVSS	COOPER 5262S
20 AMP DUPLEX-TVSS	COOPER 5362S

B. DUPLEX RECEPTACLES ON DEDICATED CIRCUIT SHALL BE 20 AMP. OTHER DUPLEX RECEPTACLES MAY BE 15 AMP, UNLESS OTHERWISE NOTED.

C. OUTLET BOXES SHALL NOT BE MOUNTED BACK-TO-BACK.

D. A MAXIMUM OF 10 RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.

E. WEATHERPROOF COVERS SHALL HAVE A LID SO THAT PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION, EQUAL TO INTERMATIC GUARDIAN ONE #WP1020C.

F. ALL OUTLETS (INCLUDING TELEPHONE, CABLE TV AND DATA) SHALL HAVE COVER PLATES, BLANK IF NOT USED.

PART 5: DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES (UNLESS OTHERWISE INDICATED), FUSED OR NON-FUSED AS INDICATED. FUSED SWITCHES SHALL HAVE REJECTION-TYPE FUSE CLIPS. SWITCHES SHALL BE SQUARE D, OR EQUAL. FUSES SHALL BE CLASS R-5, TIME DELAY. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER.

PART 6: PANELBOARDS

A. PANELBOARDS SHALL BE DEAD-FRONT SAFETY TYPE. ALL CIRCUIT BREAKERS SHALL BE MOLDED-CASE, BOLT-ON, AUTOMATIC THERMAL MAGNETIC TYPE, CALIBRATED FOR 40°C, OR AMBIENT COMPENSATION. CABINET SHALL BE 20 INCHES WIDE MINIMUM, WITH NOT LESS THAT 4-INCH WIRING GUTTERS AT TOP, SIDES, AND BOTTOM, SQUARE D "NF", "NQOD", OR EQUAL. BUS SHALL BE ALUMINUM WITH RATINGS AS INDICATED ON DRAWINGS. LUGS SHALL BE SIZED TO ACCOMMODATE CONDUCTORS INDICATED ON THE POWER RISER DIAGRAM.

B. PROVIDE HANDLE LOCK-ON DEVICES ON ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, AND NIGHT LIGHTING, FIRE ALARM, TELEPHONE AND SECURITY SYSTEMS.

C. CIRCUIT BREAKERS USED FOR SWITCHING OF LIGHTING OR SIGN CIRCUITS SHALL BE SWITCHING DUTY RATED AND SHALL BE MARKED "SWD".

PART 7: LIGHT FIXTURES

A. CATALOG NUMBERS GIVEN DENOTE MINIMUM QUALITY AND PERFORMANCE REQUIRED. EQUAL EQUIPMENT BY OTHER MANUFACTURERS IS ACCEPTABLE AS INDICATED ON THE LIGHT FIXTURE SCHEDULE.

B. H.I.D. BALLASTS SHALL BE HIGH POWER FACTOR WITH QUIETEST SOUND RATING.

C. LAY-IN FIXTURES SHALL BE SUSPENDED FROM STRUCTURE WITH 2 WIRES AT OPPOSITE CORNERS. DO NOT SUPPORT FROM CEILING GRID.

D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.

E. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED.

F. COMPACT FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH END OF LIFE PROTECTION.

PART 8: TELEPHONE/DATA SYSTEM

A. FURNISH AND INSTALL A COMPLETE TELEPHONE/DATA CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS. ALL OUTLET BOXES FOR TELEPHONE AND/OR DATA JACKS SHALL BE DOUBLE GANG WITH A SINGLE-GANG OPENING.

B. PULL AND LEAVE IN EACH CONDUIT ONE PULL CORD FOR PULLING IN CABLE. ALL WIRING, OUTLETS AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE OWNERS TELE/DATA SUPPLIER.

C. TELEPHONE SERVICE CONDUITS SHALL BE PROVIDED TO THE PROPERTY LINE OR AS INDICATED ON THE DRAWINGS.

D. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN COPPER WIRE IN A 3/4" CONDUIT FROM THE NEAREST COLD WATER METAL MAIN TO A LUG AT THE TELEPHONE/DATA BACKBOARD.

PART 9: LIGHTING CONTROLS

A. FURNISH AND INSTALL AN ELECTRONIC TIME CONTROLLER WHERE INDICATED. CONTROLLER SHALL BE CAPABLE OF SWITCHING 40 AMPERES PER POLE CONTINUOUSLY AT 120 VOLTS AND SHALL BE SPST (DPST, 3PST, DPTDT, SPDT, AS REQUIRED).

B. LIGHTING CONTACTORS SHALL SWITCH A LOAD AT 120 VOLTS, 60 HZ AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS. THE CONTACTOR SHALL BE CONTINUOUSLY RATED 20 AMPERES PER POLE FOR ALL TYPES OF BALLAST AND TUNGSTEN LIGHTING AND RESISTANCE LOADS.

C. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND HAVE A NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.

PART 10: FIRE ALARM SYSTEM

A. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLEX, NOTIFIER, EDWARDS OR EQUAL, AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP. OR NEW DEVICES SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. THE CONTRACTOR SHALL FIELD VERIFY EXACT SYSTEM MANUFACTURER AND TYPE. THE FIRE ALARM SUPPLIER SHALL VERIFY THE EXISTING SYSTEM CAN ACCOMMODATE THE NEW DEVICES PRIOR TO BID. WHEN THE EXISTING SYSTEM CAN NOT HANDLE THE DEVICES, THE FIRE ALARM SUPPLIER SHALL INCLUDE IN THEIR PRICE THE ADDITION OF NOTIFICATION APPLIANCE CIRCUITS (NAC) POWER EXTENDERS AS REQUIRED. SUPPLIER SHALL INCLUDE THE UPDATING OF EXISTING STROBES IN THE RENOVATED AREA SO THAT ALL STROBES, NEW AND EXISTING, ARE SYNCHRONIZED.

B. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ZONE ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL.

C. MANUAL STATIONS SHALL BE NON-CODED, WITH PULL LEVER AND GLASS ROD, SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN, THE USE OF PLENUM RATED CABLE IS NOT ALLOWED. ALL JUNCTION BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.

D. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL DISTINGUISH BETWEEN A CIRCUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIBLE-VISUAL DEVICES OR CAUSE A SIGNAL TO BE TRANSMITTED TO THE CENTRAL STATION.

E. WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION, THE FIRE ALARM SUPPLIER SHALL A SEPARATE SET OF PLANS FOR A SEPARATE FIRE ALARM PERMIT. THE ENGINEER IS NOT RESPONSIBLE FOR PRODUCING THESE DRAWINGS OR FOR SUBMITTING FOR THIS PERMIT, IT IS THE SOLE RESPONSIBILITY OF THE FIRE ALARM SUPPLIER.

F. ALL STROBES LOCATED WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.

PART 11: FIRE STOPPING

A. ALL PENETRATIONS OF NON-RATED PENETRATIONS SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814.

B. PROVIDE FIRE STOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

D. WHERE OPENINGS FOR INSTALLATION OF ELECTRICAL BOXES EXCEEDS 16 SQUARE INCHES IN RATED WALLS OR PARTITIONS, THE OPENING SHALL BE PROTECTED AS REQUIRED BY THE APPROPRIATE WALL LISTING TYPE.

SEISMIC RESTRAINT OF ELECTRICAL SYSTEMS – DESIGN/BUILD SPECIFICATION

THE ELECTRICAL CONTRACTOR SHALL RETAIN THE SERVICES OF A STRUCTURAL ENGINEER TO DETERMINE SITE CLASSIFICATION AND SEISMIC RESTRAINT REQUIREMENTS FOR ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ETC. REQUIRED FOR THIS PROJECT. WHERE REQUIRED, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RESTRAINTS TO RESIST THE EARTHQUAKE EFFECTS ON THE ELECTRICAL SYSTEM. THE REQUIREMENTS FOR THESE RESTRAINTS ARE FOUND IN THE INTERNATIONAL BUILDING CODE, 2006.

THE ELECTRICAL CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA TO DESIGN SEISMIC RESTRAINT ELEMENTS REQUIRED FOR THIS PROJECT. THE ENGINEER'S COMPUTATIONS, BEARING HIS PROFESSIONAL SEAL, SHALL ACCOMPANY SHOP DRAWINGS WHICH SHOW INTERNATIONAL BUILDING CODE, 2006 COMPLIANCE. COMPUTATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO THE PURCHASING OF MATERIALS, EQUIPMENT, SYSTEMS AND ASSEMBLIES.

THE ELECTRICAL CONTRACTOR SHALL INCLUDE SHOP DRAWINGS OF THE SPECIFIC METHODS OF SEISMIC RESTRAINT TO BE USED FOR THIS PROJECT PRIOR TO INSTALLATION OF PIPING, DUCTWORK AND EQUIPMENT.

INTERNAL SEISMIC RESTRAINT ELEMENTS OF MANUFACTURED EQUIPMENT SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER RETAINED BY THE MANUFACTURER. SUCH CERTIFICATE APPLIES ONLY TO INTERNAL ELEMENTS OF THE EQUIPMENT. ALL EQUIPMENT ANCHORAGE REQUIREMENTS SHALL BE COORDINATED WITH THE BUILDING STRUCTURE AND SHALL BE COMPATIBLE THERETO. ALL SUCH ANCHORAGE SHALL BE REVIEWED BY THE PROJECT'S ELECTRICAL ENGINEER PRIOR TO INSTALLATION.

THE PROFESSIONAL ENGINEER RETAINED BY THE ELECTRICAL CONTRACTOR FOR SEISMIC RESTRAINT CALCULATIONS AND DESIGN SHALL VISIT THE JOB SITE UPON COMPLETION OF THE SEISMIC RESTRAINT INSTALLATION. THIS ENGINEER SHALL PROVIDE IN WRITING, VERIFICATION OF COMPLIANCE WITH THE APPROVED SEISMIC SUBMITTAL. THIS ENGINEER SHALL ALSO PERFORM ANY SPECIAL INSPECTIONS REQUIRED BY THE INTERNATIONAL BUILDING CODE, 2006. THIS VERIFICATION SHALL BEAR THE ENGINEER'S PROFESSIONAL SEAL. JOB SITE INSPECTION BY OTHER THAN THIS ENGINEER IS NOT ACCEPTABLE.

REVIEW OF THE SEISMIC DESIGN AND SHOP DRAWINGS BY THE PROJECT'S ELECTRICAL ENGINEER, STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY WITH THE SEISMIC OR ANY OTHER REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006.

SURGE PROTECTION DEVICE SPECIFICATION

A. SPD SHALL COMPLY WITH THE FOLLOWING STANDARDS:
1. UNDERWRITERS LABORATORIES, INC. STANDARD NO. 1449, SECOND EDITION.
2. IEEE STANDARD C62.11-1987;C62.33-1982;C62.41-1991; AND C62.45-1987.
3. NATIONAL ELECTRICAL CODE ARTICLE 240-21 (EQUIPMENT COMPLYING WITH TAP CONDUCTOR RULES) AND ARTICLE 110-9 (INTERRUPTING CAPACITY).
4. NEMA LS-1,1992.

B. SPECIFICATIONS FOR THE LIFE OF THE UNIT SHALL BE INCLUDED IN TERMS OF THE NUMBER OF "HITS" EACH UNIT CAN WITHSTAND IN THE LINE-TO-NEUTRAL MODE AT SPECIFIC SURGE CURRENT LEVELS BEFORE UNIT FAILURE UTILIZING THE CATEGORY C2 8X20 MICROSECOND CURRENT WAVEFORM TEST.

C. JOULE RATINGS SHALL BE INCLUDED ON THE SUBMITTALS.

D. SUBMIT TEST RESULTS (GRAPHS) FOR THE APPROPRIATE NEMA LS1 TESTS FOR ALL MODELS SUBMITTED SHOWING ACTUAL LET THROUGH VOLTAGES (USING 6" LEAD LENGTH AS MEASURED FROM THE POINT WHERE THE CONNECTION CONDUCTORS EXIT THE SPD ENCLOSURE).
1. LEAD LENGTH MUST BE SPECIFIED AS WELL AS ALL APPLICABLE TEST PARAMETERS NECESSARY TO PERFORM A COMPLETE EVALUATION OF TEST RESULTS.
2. H1 & H2 UNITS SHALL BE STATIC TESTED.
3. L1 & L2 UNITS SHALL BE DYNAMIC TESTED @ 90 DEGREE PHASE ANGLE.

E. UNITS SHALL CONSIST OF PARALLEL CONNECTIONS ONLY. SERIES ELEMENTS ARE NOT ACCEPTABLE.

F. THE TRANSIENT SUPPRESSION DEVICE MUST BE UL LISTED UNDER THE UL 1449, JULY 1987 REVISION, AS A COMPLETE ENTITY. LISTED UL LET THROUGH VOLTAGE RATING MUST BE CLEARLY STATED.

G. UNIT SHALL EMPLOY METAL OXIDE VARISTORS AS THE PRIMARY SUPPRESSION TECHNOLOGY.

H. SYSTEM VOLTAGES:
1. 480Y/277V, 3ø, 4 WIRE
2. 208Y/120V, 3ø, 4 WIRE

I. THE FOLLOWING MODELS ARE ACCEPTABLE (OR APPROVED EQUAL):
1. TYPE L1(120/208V, 3ø,4 WIRE SERVICE PANEL DEVICE) (400kA PER PHASE 200kA MIN. PER MODE.)
   a. CURRENT TECHNOLOGY #TG 200 120/208 3GY L1
   b. PSP #H2C400-MHWID
   c. CUTLER HAMMER #CPS-S3-208Y-SD-RSX-CX
   d. LIEBERT #LM 200-120Y-ANSE
2. TYPE L2(120/208V, 3ø,4 WIRE BRANCH PANEL DEVICE) (160kA PER PHASE, 80kA MIN. PER MODE.)
   a. CURRENT TECHNOLOGY #TG 100 120/208 3GY
   b. PSP #H2C200-04-N
   c. CUTLER HAMMER #CPS-BX-208Y-SD-RSX-CX
   d. LIEBERT #LM 100-120Y-ANSE

J. ADDITIONAL FEATURES
1. UNLIMITED KVA OR AMPERE RATING OF PROTECTED LOAD.
2. LED INDICATORS SHALL BE UTILIZED TO INDICATE FAILURE OF PROTECTION MODULES.
3. ALL UNITS SHALL BE ENCLOSED IN A WALL MOUNTABLE HEAVY DUTY ENCLOSURE EQUIVALENT TO A NEMA 12 RATING.
4. 5 YEAR UNCONDITIONAL WARRANTY.

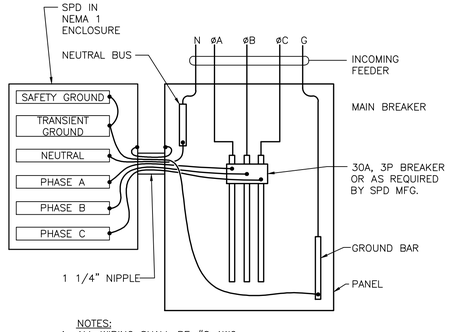
K. UNITS SHALL BE INSTALLED OF THE SAME VOLTAGE RATING AS THE INTENDED PROTECTED EQUIPMENT.

L. INSTALL UNITS WITH SHORTEST POSSIBLE LEAD LENGTH (MAXIMUM OF 18" FOR TYPE H1 AND H2 UNITS, MAXIMUM OF 6" FOR TYPE L1 AND L2 UNITS). WHERE CONDUIT IS NECESSARY TO INSTALL LEAD CONNECTION CONDUCTORS, LEADS SHALL BE INSTALLED IN RIGID NON-METALLIC CONDUIT AND SHALL NOT CONTAIN UNNECESSARY BENDS OR LOOPS.

M. INSTALL ALL H1 AND L1 UNITS ON OR IMMEDIATELY ADJACENT TO THE DISTRIBUTION SECTION OF THE SERVICE GEAR ENCLOSURES WHERE THE CONNECTION LEAD LENGTH CAN BE KEPT AS SHORT AS POSSIBLE BUT ALSO SO THAT THE INSTALLATION WILL NOT INTERFERE WITH REMOVAL OF SERVICE GEAR PANELS. PROVIDE A DEDICATED 30A,3-POLE CIRCUIT BREAKER IN SERVICE GEAR FOR CONNECTION TO EACH UNIT.

N. INSTALL ALL H2 AND L2 UNITS IMMEDIATELY ADJACENT TO THE PANEL ENCLOSURES.

O. SPD SHALL HAVE A SHORT CIRCUIT RATING EXCEEDING THE FAULT CURRENT AVAILABLE AT THE SERVICE ENTRANCE POINT.



NOTES:
1. ALL WIRING SHALL BE #8 AWG.
2. AVOID SHARP BENDS IN WIRES. ALL WIRE LENGTHS SHALL NOT EXCEED 18" (WHERE POSSIBLE).
3. SEE SPD SPECIFICATION FOR EXACT TYPE (H1, H2, L1, L2) FOR LOCATION AS INDICATED ON THE POWER RISER DIAGRAM.

1 E001 SPD CONNECTION DETAIL
NO SCALE

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REVISIONS		
No.	Date	Description
1		

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL SPEICIFICATIONS

Phase
Construction Documents

Project No.	14-081	Sheet No.	E001
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

Holiday Inn Express & Suites

SYMBOL SCHEDULE

CONDUIT AND/OR WIRING SYSTEM CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS. NUMBER OF TICKS INDICATED NUMBER OF CONDUCTORS, HOT AND NEUTRAL. NO TICKS INDICATES TWO CONDUCTORS (GROUND WIRES NOT SHOWN)

CONDUIT AND/OR WIRING SYSTEM CONCEALED BELOW FLOOR OR FLOOR SLAB.

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND.

BREAK IN CONDUIT, SEE PLAN FOR CONTINUATION.

NON-RIGID RACEWAY SYSTEM

BRANCH CIRCUIT HOMERUN TO PANEL.

JUNCTION BOX SIZED PER NEC.

S — SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1221, OR EQUAL.

S_3 — THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL.

S_D — DIMMER SWITCH, 1200W, 120V. LUTRON NT-SERIES, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG J-BOX FOR DIMMERS 1600W AND ABOVE.

S_M — FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH O.L.'S

S_{OC} — SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY MANUAL ON-AUTO OFF-30MIN. TIMEOUT.

S_{2OC} — SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY CAPABLE OF INBOARD/OUTBOARD SWITCHING. MANUAL ON-AUTO OFF-30MIN. TIMEOUT.

OC — SENSOR SWITCH OR EQUAL. CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY MANUAL VIA WALL SWITCH AUTO OFF-30MIN. TIMEOUT. 2000 SQFT COVERAGE. PROVIDE POWER PACKS AND LOW VOLTAGE CONNECTIONS AS REQUIRED.

DUPLEX RECEPTACLE, 15 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT.) MOUNT 18" A.F.F., U.O.N., COOPER 5252 OR EQUAL.

DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT 48" A.F.F. U.O.N., COOPER 5252 OR EQUAL.

DOUBLE DUPLEX RECEPTACLE MOUNT AT 18" A.F.F. TWO NEMA 5-15R DUPLEX RECEPTACLES IN A COMMON BOX AND COVER PLATE.

GFCI — GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.

EWC — GROUND FAULT NEMA 5-20R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER COORDINATE LOCATION WITH PLUMBING CONTRACTOR.

WP — WEATHERPROOF RECEPTACLE. NEMA 5-15R DUPLEX. COVER SHALL BE COOPER #1991 WHERE MOUNTED HORIZONTAL AND #4966 WHERE MOUNTED VERTICAL.

DUPLEX RECEPTACLE MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.

D — 125/250V, 30A, 3-POLE, 4-WIRE GROUNDING RECEPTACLE FOR DRYER BLACK WITH STAINLESS STEEL COVER, MOUNT 18" A.F.F., COOPER 5744N OR EQUAL.

(M) — FRACTIONAL HORSEPOWER MOTOR CONNECTION.

(3) — MOTOR CONNECTION, NUMBER INDICATES HORSEPOWER.

CONNECTION FOR WATER HEATER, VOLTAGE, PHASE AND SIZE AS INDICATED.

CONNECTION FOR WALL HEATER, VOLTAGE, PHASE AND SIZE AS INDICATED.

TV — TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 3/4" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.

TELEPHONE OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 3/4" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.

TELEPHONE OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.

TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 3/4" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.

TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.

TELE/DATA OUTLET MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.

LIGHTING AND/OR POWER PANEL BOARD, SURFACE MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

LIGHTING AND/OR POWER PANEL BOARD, RECESSED MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

DISTRIBUTION PANEL BOARD, SURFACE MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

DISTRIBUTION PANEL BOARD, RECESSED MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

PLYWOOD TELEPHONE OR DATA BACKBOARD. SIZE AS INDICATED ON THE RESPECTIVE RISER DIAGRAM.

WALL MOUNTED UTILITY METER.

ACRYLIC LENSED FLUORESCENT LIGHTING FIXTURE. LETTER IS FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE. SUSPEND TWO OPPOSITE CORNERS WITH #10 AWG WIRE TO STRUCTURE AND ATTACH THE REMAINING TWO CORNERS TO THOSE WIRES. GRID ALONE SHALL NOT SUPPORT FIXTURE.

STRIP FLUORESCENT LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS MOUNTED ON STRUCTURAL CEILING.

ROUND RECESSED OR SURFACE MOUNTED LIGHT FIXTURE. LETTER INDICATES FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS SURFACE MOUNTED TO A STRUCTURAL CEILING.

WALL MOUNTED ROUND LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

WALL MOUNTED LINEAR LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

ROUND, RECESSED OR SURFACE MOUNTED WALL WASH FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS SURFACE MOUNTED TO A STRUCTURAL CEILING.

DIRECTIONAL LIGHT FIXTURE, ARROW INDICATES DIRECTION OF AIMING. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. FIXTURE USUALLY MOUNTED ON TRACK, BUT IF NOT INDEPENENTLY SUPPORT TO STRUCTURE.

LIGHTING TRACK WITH NUMBER OF FIXTURES AS INDICATED. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

FIXTURE WITH INTEGRAL 1100 LUMEN BATTERY INVERTER AND/OR ON EMERGENCY LIGHTING CIRCUIT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE FOR TYPE AND FOR BATTERY REQUIREMENT. SUPPORT FIXTURES IN SAME MANNER AS LISTED ABOVE.

FIXTURE WITH INTEGRAL 600 LUMEN BATTERY INVERTER AND/OR ON EMERGENCY LIGHTING CIRCUIT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE FOR TYPE AND FOR BATTERY REQUIREMENT. SUPPORT FIXTURES IN SAME MANNER AS LISTED ABOVE.

WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK FIXTURE, SEE LIGHT FIXTURE SCHEDULE.

CEILING OR WALL MOUNTED EXIT SIGN RESPECTIVELY. SOLID SPACES INDICATE FACES. PROVIDE ARROWS AS INDICATED ON PLANS. SEE LIGHT FIXTURE SCHEDULE.

WALL MOUNTED COMBINATION EMERGENCY BATTERY PACK AND EXIT SIGN. SEE LIGHT FIXTURE SCHEDULE.

BOLLARD SITE LIGHT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SINGLE SQUARE LUMINAIRE POLE MOUNTED FIXTURE WITH ARM. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SIMILAR TO ABOVE EXCEPT TWIN LUMINAIRE FIXTURE.

SINGLE ROUND LUMINAIRE POST TOP MOUNTED FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

GROUND MOUNTED FLOOD LIGHT, SEE DETAIL FOR MOUNTING. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

PUSHBUTTON.

VISUAL DOORBELL

CR — CARD READER.

F — FIRE ALARM MANUAL STATION, MOUNT 48"A.F.F.

FH — FIRE ALARM HORN-STROBE COMBINATION, 15CD, MOUNT 80" TO BOTTOM.

S — FIRE ALARM STROBE, 15CD, MOUNT 80" TO BOTTOM.

S — FIRE ALARM SMOKE/CARBON MONOXIDE DETECTOR, CEILING MOUNTED.

S_D — FIRE ALARM DUCT SMOKE DETECTOR.

S_{SB} — FIRE ALARM SYSTEM WALL MOUNTED COMBINATION SMOKE/CO DETECTOR, MULTI-MODE SOUNDER BASE

H — FIRE ALARM HEAT DETECTOR, CEILING MOUNTED.

CO — FIRE ALARM CARBON MONOXIDE DETECTOR, CEILING MOUNTED.

FS — FIRE ALARM FLOW SWITCH ON SPRINKLER SYSTEM.

TS — FIRE ALARM TAMPER SWITCH ON SPRINKLER SYSTEM.

DH — FIRE ALARM DOOR HOLD OPEN DEVICE.

FIRE ALARM FIREMANS PHONE MOUNT 48"A.F.F.

SV — SOLENOID VALVE CONNECTION.

FIRE ALARM DUCT DETECTOR REMOTE INDICATING LIGHT.

D/FS — CONNECTION FOR FIRE/SMOKE DAMPER. PROVIDE 120V CONNECTION, RIB RELAY, AND FIRE ALARM CONNECTION AS REQUIRED FOR OPERATION.

PIV — CONNECTION TO SPRINKLER POST INDICATOR VALVE.

FACP — FIRE ALARM CONTROL PANEL

AN — FIRE ALARM ANNUNCIATOR PANEL

KB — KNOX BOX

NONFUSED DISCONNECT SWITCH, SIZE AS INDCIATED ON DRAWINGS, NEMA 1 ENCLOSURE U.O.N.

FUSED DISCONNECT SWITCH, SIZE AS INDICATED ON DRAWINGS, FUSE PER NAMEPLATE DATA OR AS INDICATED, NEMA 1 ENCLOSURE U.O.N.

ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED ON DRAWINGS, NEMA 1 ENCLOSURE U.O.N.

NOTES:
1. SEE DEVICE MOUNTING ELEVATION FOR MOUNTING HEIGHTS.
2. SEE SPECIFICATIONS FOR DEVICE COLOR AND COVER PLATE STYLE.

ABBREVIATIONS

A	AMPERE	NC	NORMALLY CLOSED
AF	AMP FRAME	NEC	NATIONAL ELECTRIC CODE
AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	#	NUMBER
CKT	CIRCUIT	NTS	NOT TO SCALE
EWC	ELECTRIC WATER COOLER	P	POLE
FLA	FULL LOAD AMPS	ø	PHASE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PNL	PANELBOARD
G	GROUND	SCWT	SCREW COVER WIRE TROUGH
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SPD	SURGE PROTECTION DEVICE
IG	ISOLATED GROUND	SW	SWITCH
KV	KILOVOLT	TELE/DATA	TELEPHONE/DATA
KVA	KILOVOLT AMPERE	TYP	TYPICAL
KCMIL	THOUSAND CIRCULAR MILS	UG	UNDERGROUND
KW	KILOWATT	V	VOLT
MCB	MAIN CIRCUIT BREAKER	UON	UNLESS OTHERWISE NOTED
MCC	MOTOR CONTROL CENTER	WP	WEATHERPROOF
MISC	MISCELLANEOUS	XFMR	TRANSFORMER
MLO	MAIN LUGS ONLY	3R	NEMA 3R ENCLOSURE
MTS	MANUAL TRANSFER SWITCH		
N/A	NOT APPLICABLE		

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	FIXTURE WATTAGE	VOLTAGE	DESCRIPTION
A	METALUX DAYBRITE LITHONIA HE WILLIAMS	WE232A CAN232R 1/2 EB SB 2 32 MV 23-4-232-A-EBLH2	2-FO32/835/XPS/ECO T8 OCTRON	OSRAM SYLVANIA QUICKTRONIC QTP2X32T8/UNV PSX-TC BALLAST. BALLAST FACTOR SHALL BE 0.71	47W	120V	4 FT. FLUORESCENT SURFACE MOUNTED WRAP. MATTE WHITE FINISH, ACRYLIC LENS.
B	SCOTT ARCHITECTURAL OR AS APPROVED BY HIX	S3780-2C18E-XX	2-18W CF QUAD	ELECTRONIC BALLAST	40W	120V	ADA WALL SCONCE MOUNTED NEXT TO VANITY MIRROR. SEE ARCHITECTURAL DETAILS FOR MOUNTING LOCATIONS. COORDINATE WITH ARCHITECT/INTERIORS FOR FINISH TYPE.
B2	SCOTT ARCHITECTURAL OR AS APPROVED BY HIX	S3755-1FP24-XX	1-BI-PIN T5-HO	ELECTRONIC BALLAST	30W	120V	ADA WALL SCONCE MOUNTED ABOVE VANITY MIRROR. SEE ARCHITECTURAL DETAILS FOR MOUNTING LOCATIONS. COORDINATE WITH ARCHITECT/INTERIORS FOR FINISH TYPE.
CE	LITHONIA	WC232-A12-EL	2-FO32/835/XPS/ECO T8 OCTRON	OSRAM SYLVANIA QUICKTRONIC QTP2X32T8/UNV PSX-TC BALLAST. BALLAST FACTOR SHALL BE 0.71	47W	120V	4' WALL MOUNTED FLUORESCENT WITH STEEL HOUSING CLEAR PRISMATIC #12 ACRYLIC LENS. WHITE BAKED ENAMEL FINISH. 90 MINUTE BATTERY BACK UP.
D	LITHONIA	2PM3N-G-B-332-18LD-MVOLT	3-F17/835/RS T8	OSRAM SYLVANIA QUICKTRONIC QTP3X F17T8/UNV PSN-F BALLAST. BALLAST TO FACTOR SHALL BE 0.78	51W	120V	RECESSED 2X2 PARABOLIC LAY-IN FLUORESCENT. 3 INCH DEEP, SEMI-SPECULAR NATURAL ANODIZED ALUMINUM LOUVERS. WHITE BAKED ENAMEL FINISH WITH BLACK REVEAL AROUND LOUVER.
E	SELECTED BY OWNER APPROVED BY HIX		LED/2600 LUMEN		30W	120V	6" APERATURE RECESSED FLUORESCENT DOWNLIGHT HORIZONTALLY MOUNTED LAMP. CLEAR ALZAK REFLECTOR.
F	SELECTED BY OWNER APPROVED BY HIX		LED/1600 LUMEN		24W	120V	6" APERATURE RECESSED FLUORESCENT DOWNLIGHT HORIZONTALLY MOUNTED LAMP. CLEAR ALZAK REFLECTOR. PROVIDE FIRE RATED ENCLOSURE AS REQUIRED IN RATED CEILINGS.
H	CANLET	6802FEF26H11 GSC	1-CF 26W TWT	ELECTRONIC BALLAST	30W	120V	VAPORTIGHT GLOBE IN ELEVATOR PIT, COMPACT FLUORESCENT.
J	SELECTED BY OWNER APPROVED BY HIX		LED/1600 LUMEN		24W	120V	4" APERATURE RECESSED FLUORESCENT DOWNLIGHT HORIZONTALLY MOUNTED LAMP. CLEAR ALZAK REFLECTOR. PROVIDE CLEAR LENS OVER FOOD PREP/SERVING AREAS.
K	SELECTED BY OWNER APPROVED BY HIX	.	LED/1500 LUMEN		24W	120V	LIGHT FIXTURE OVER TABLE. . .
L	SELECTED BY OWNER APPROVED BY HIX	.	LED/1500 LUMEN		24W	120V	ADA WALL SCONCE. .
M	SELECTED BY OWNER APPROVED BY HIX	.	LED/1500 LUMEN		24W	120V	PUBLIC RESTROOM VANITY WALL SCONCE. . .
N	GOTHAM		LED/1600 LUMEN		24W	120V	4" APERATURE RECESSED FLUORESCENT WALL WASH DOWNLIGHT .
P1	SELECTED BY OWNER APPROVED BY HIX	.	.	ELECTRONIC BALLASTS FIXTURE MUST BE DIMMABLE	200W	120V	UL LISTED PENDANT FIXTURE. SELECTED BY OTHERS AND INSTALLED BY THE CONTRACTOR. VERIFY MOUNTING HEIGHT AND OTHER OPTIONS WITH OWNER PRIOR TO ORDERING. FIXTURE MUST BE DIMMABLE
P2	SELECTED BY OWNER APPROVED BY HIX			ELECTRONIC DIMMING BALLAST .	95W	120V	UL LISTED PENDANT FIXTURE. SELECTED BY OTHERS AND INSTALLED BY THE CONTRACTOR. VERIFY MOUNTING HEIGHT AND OTHER OPTIONS WITH OWNER PRIOR TO ORDERING. FIXTURE MUST BE DIMMABLE
R	LITHONIA	LG7FWT73	52 MB/CAP HALOGEN	N/A	52W	120V	7" APERATURE. FLUSH PRISMATIC LENS. WHITE FINISH. WET LOCATION LABEL. SHOWER LIGHT. PROVIDE FIRE RATED ENCLOSURE AS REQUIRED IN RATED CEILINGS.
S	DAYBRITE PORTFOLIO GOTHAM SPECTRUM	OM670ED17PMH-CS MD6-670E-6701J AH 70M 6AR SP7MH70-ED-EX-7210-SG-BH27	1-MP70/C/U	OSRAM SYLVANIA QUICKTRONIC QTP1X70MH/UNV BALLAST.	80W	120V	6" APERATURE RECESSED METAL HALIDE DOWNLIGHT VERTICALLY MOUNTED LAMP. ALZAK REFLECTOR. DAMP LOCATION LABEL.
T	SELECTED BY OWNER APPROVED BY HIX	.	2-CF26W	ELECTRONIC BALLAST	58W	120V	SURFACE OR PENDANT COMPACT FLUORESCENT. PROVIDE FIRE RATED ENCLOSURE AS REQUIRED IN RATED CEILINGS.
U	LITHONIA	C 2 32 MVOLT ES	2-FO32/835/XPS/ECO T8 OCTRON	OSRAM SYLVANIA QUICKTRONIC QTP1X32T8/UNV PSX-TC BALLAST. BALLAST FACTOR SHALL BE 0.71	48W	120V	4 FT. FLUORESCENT STRIP WITH WIRE GUARD. .
W	USA ILLUMINATION	3340 CLRA4 8400 C1 3530	1-10W DRIVER	LED DRIVER - 0-10V DIMMING .	10W	120/277V	4.5" RECESSED DOWN LIGHTING, ADJ. 30° REF 40° BEAM PATTERN, NEW CONSTRUCTION INSTALLATION. .
X	LITHONIA	SELECTED BY OWNER	2-CF13W	ELECTRONIC BALLAST	28W	120V	GUESTROOM ENTRY FIXTURE. SURFACE MOUNTED OR RECESSED. COORDINATE WITH ARCHITECT/OWNEN. PROVIDE RATED ENCLOSURE AS DETERMINED NECESSARY.
Z	LITHONIA	2SP8 G 4 32 A12125	4-FO32/835/XPS/ECO T8 OCTRON	OSRAM SYLVANIA QUICKTRONIC 2-QTP2X32T8/UNV PSX-TC BALLAST 2-QTP2X32T8/UNV PSX-TC BALLAST BALLAST FACTOR SHALL BE 0.71	94W	120V	RECESSED 2X4 ACRYLIC LAY-IN FLUORESCENT. 0.125" THICK, #12 ACRYLIC LENS. FLAT WHITE STEEL DOOR. WHITE BAKED ENAMEL FINISH. NOTE 4.
UC	ALKCO	8UC-132-W-120	1-32W T8	ELECTRONIC BALLAST	35W	120V	UNDER COUNTER LIGHT. 48", WHITE LENS
OA	SELECTED BY OWNER APPROVED BY HIX		1-150W METAL HALIDE		165W	120V	BUILDING ACCENT LIGHTING, BLUE BRAND UP-LIGHTING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS.
OB	SELECTED BY OWNER APPROVED BY HIX	.	1-70W MH	ELECTRONIC BALLAST	80W	120V	WALL MOUNTED FLOOD FIXTURE, BRONZE FINISH, SUITABLE FOR WET LOCATION.
OD	INSIGHT LIGHTING	MQ1-70CMH	1-70W MH	OSRAM SYLVANIA QUICKTRONIC QTP1X70MH/UNV BALLAST.	80W	120V	BUILDING ACCENT LIGHTING, BLUE BRAND LIGHTING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS. .
Y	OWNER SELECTED		70W MAX	ELECTRONIC BALLAST	77W	120V	POOL AREA WALL SCONCE DAMP LOCATION LABEL .
	LITHONIA	LHQM SW R 120/277 EL N	LED		2.5W/FACE	120V	COMBINATION EXIT AND WALL MOUNTED SELF CONTAINED EMERGENCY LIGHT. POLYCARBONATE HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN. OPERATION. WHITE HOUSING.
	LITHONIA	LQM SW R 120/277 EL N	LED		2.5W/FACE	120V	PACK FOR 90MIN OPERATION. NICAD BATTERY. WHITE HOUSING. RED LETTERS.
	LITHONIA	ELM4 H 1212	2-12W HALOGEN		50W	120V	WALL MOUNTED SELF CONTAINED EMERGENCY LIGHT POLYCARBONATE HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN. OPERATION. WHITE HOUSING.
	LITHONIA	AFN SERIES	TWO LAMPS INCLUDED		20W MAX	120V	EXTERIOR EMERGENCY LIGHT WITH BATTERY BACKUP, TWO LAMPS AND UL WET LABEL, BLACK FINISH.

FIXTURE NOTES:

1. ALL FLUORESCENT LAMPS SHALL BE T8 OCTRON XPS/ECO 3500°K AS SPECIFIED. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC AS SPECIFIED. SUBMITTAL SHEETS SHALL BE SUBMITTED WITH FIXTURE SUBMITTALS. FLUORESCENT LAMP AND BALLAST WARRANTY SHALL BE COMPLETED BY CONTRACTOR AND TURNED OVER OWNER AT END OF PROJECT.
2. SUBSTITUTIONS MUST BE EQUAL IN CONSTRUCTION, FINISH, ENERGY USAGE AND PHOTOMETRY. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER, WITH CUTSHEETS AND PHOTOMETRY. THE ENGINEER MUST RECEIVE THESE WITH TIME ALLOWED TO REVIEW AND ISSUE A WRITTEN APPROVAL BACK TO THE SUBMITTING PARTY TEN(10) DAYS PRIOR TO BID. SUBSTITUTE FIXTURES SHALL BE LISTED SEPARATELY AND UNIT PRICED AT TIME OF BID, SO THAT THE ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER THE 10 DAY PRIOR BID PROCESS ENDED.
3. ALL INCANDESCENT LIGHT FIXTURES SHALL HAVE AN U.L. LABEL INDICATING THAT THE LAMP WATTAGE SPECIFIED ABOVE IS THE MAXIMUM ALLOWABLE IN FIXTURE.
4. ALL 3 AND 4 LAMP ELECTRONIC BALLASTS SHALL HAVE INBOARD/OUTBOARD SWITCHING AS INDICATED ON THE DRAWINGS. TANDEM FIXTURES ARE ALLOWED TO FACILITATE INBOARD/OUTBOARD SWITCHING.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
6. ALIGN ALL HORIZONTAL FLUORESCENT LIGHTS SO THAT THE LAMPS ARE ALIGNED IN THE SAME DIRECTION.
7. ALL METAL HALIDE LAMPS SHALL HAVE A CRI OF NOT LESS THAN 70.
8. ALL ELECTRONIC BALLAST FOR T5(5/8" DIAMETER) LAMPS AND BELOW SHALL HAVE END OF LIFE SHUTDOWN PROTECTION.
9. SUSPEND TWO OPPOSITE CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
10. WHERE FIXTURE IS INDICATED AS EMERGENCY PROVIDE AN 1100 LUMEN INVERTER BATTERY PACK AND CONNECT AS INDICATED ON DETAIL THIS SHEET.
11. FIXTURE FLANGES AND TRIMS SHALL MATCH CEILING TYPES.
12. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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REVISIONS		
No.	Date	Description
1		

JOHN DEAN BELK
STATE OF MISSISSIPPI
REGISTERED PROFESSIONAL
ENGINEER
20706
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

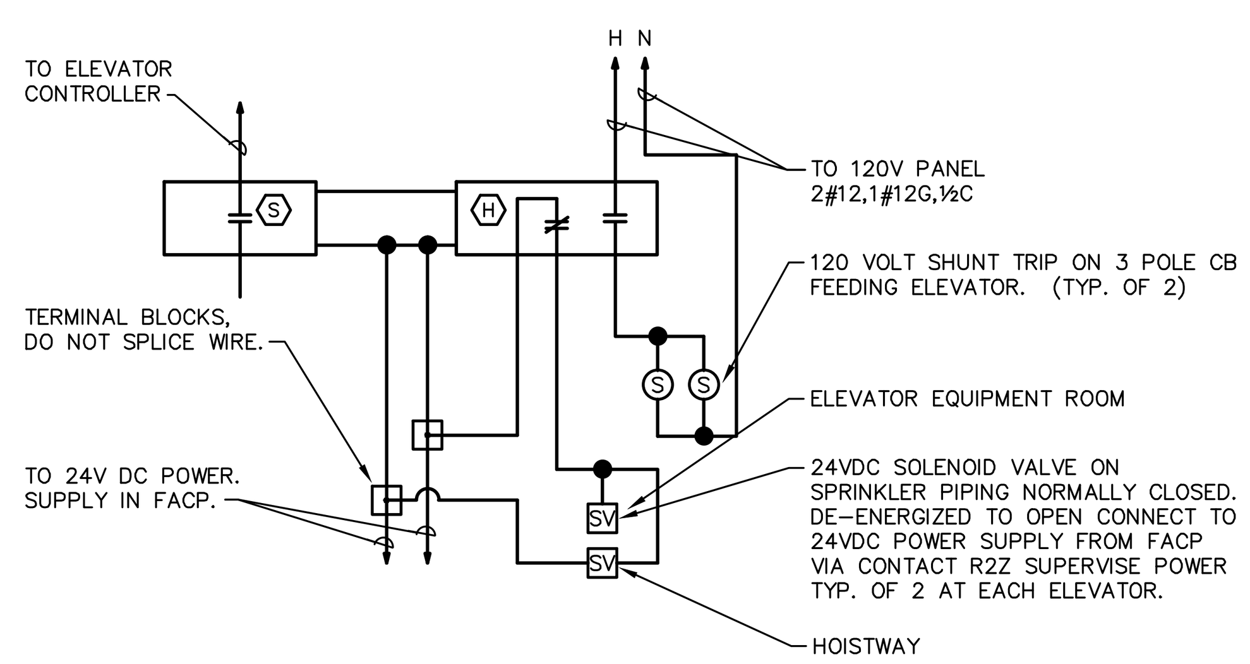
ELECTRICAL SCHEDULES

Phase

Construction Documents

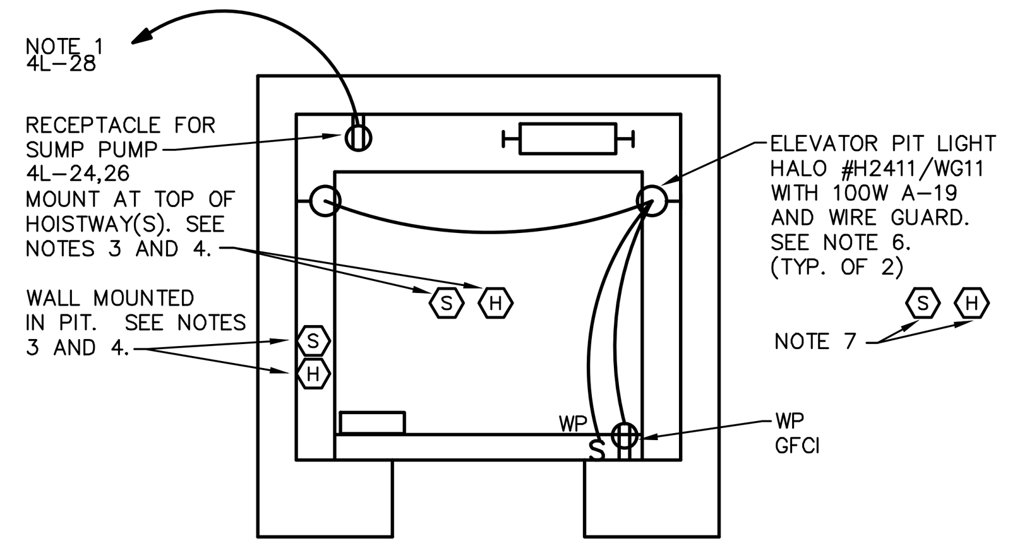
Project No.	14-081
Prepared by	MAH
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	E002

Holiday Inn Express & Suites



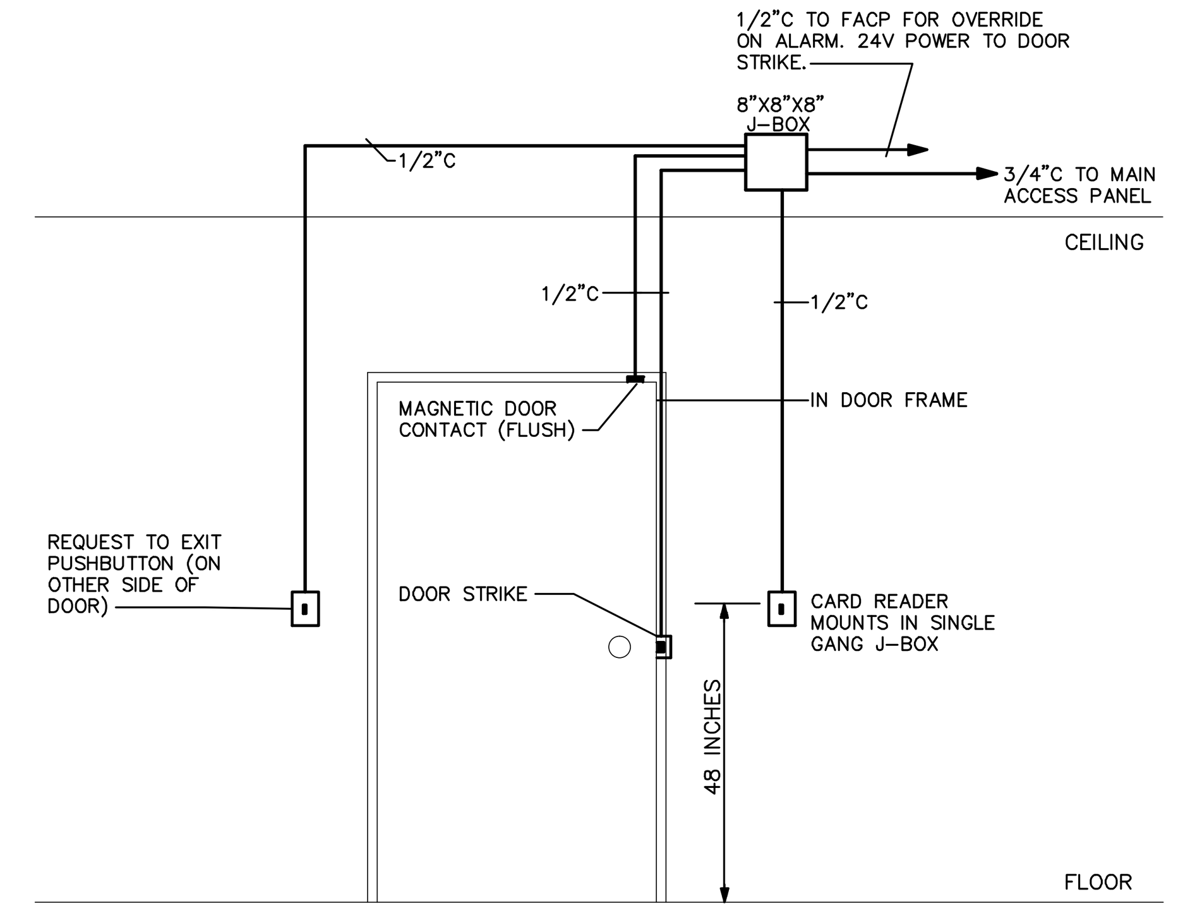
NOTES:
1. SMOKE DETECTOR SHALL, UPON ALARM, RECALL ELEVATOR TO THE DESIGNATED FIRST FLOOR, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTOR SHALL BE FIXED TYPE WITH 135° SETTING AND WHEN IN ALARM AND ACTIVATES 120V SHUNT–TRIP TO ELEVATOR FEEDER BREAKER WITHIN PANEL. ALL DISCONNECTS SERVING ELEVATOR MOTOR CONTROLLER AND ELEVATOR CAB LIGHTS SHALL BE NEMA 3R CONSTRUCTION WITH EMBOSSED CONDUIT HUBS.
2. HEAT DETECTOR WITHIN ELEVATOR EQUIPMENT ROOM SHALL BE CONNECTED TO A DEDICATED FIRE ALARM ZONE SERVING THIS ROOM ONLY. THE SMOKE DETECTOR SHALL BE CONNECTED TO A SEPARATE DEDICATED FIRE ALARM ZONE.

4 / E003 ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC
NO SCALE

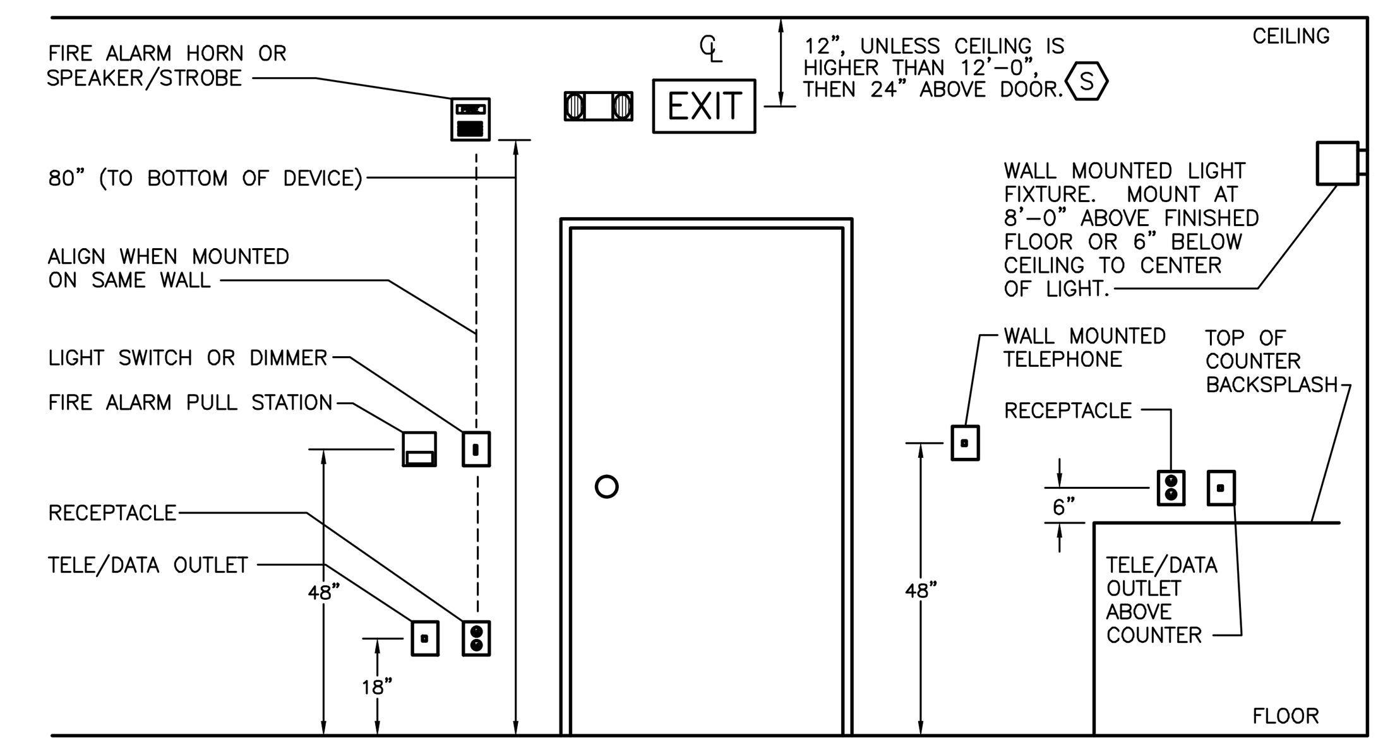


NOTES:
1. CONNECT TO 120V CIRCUIT. SEE PLANS FOR EXACT CIRCUIT DESIGNATION.
2. COORDINATE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR SHOP DRAWINGS.
3. MOUNT SMOKE AND HEAT DETECTORS WITHIN 2'–0" OF SPRINKLER HEADS. SMOKE DETECTORS SHALL, UPON ALARM, RECALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL MAIN ELEVATOR POWER. SEE ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME INDEX (135°F) COMPARED TO THE SPRINKLER HEADS IN THE HOISTWAY.
4. WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.
5. LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR.
6. LIGHTS SHALL NOT BE CONNECTED TO THE LOAD SIDE TERMINALS OF THE CONVENIENCE RECEPTACLE.
7. MOUNT CENTERED IN ELEVATOR MACHINE ROOM.
8. MOUNT IN ELEVATOR LOBBY AT EACH LEVEL WITHIN 15'–0" OF DOOR.
9. THE SMOKE DETECTOR(S) LOCATED IN THE DESIGNATED ELEVATOR RECALL LOBBY(S) SHALL ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE REMAINING ELEVATOR LOBBIES SHALL ACTUATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE HOISTWAY(S) AND ELEVATOR MACHINE ROOM(S) SHALL ACTUATE THE THIRD ELEVATOR CONTROL CIRCUIT, AND WHERE A MACHINE ROOM IS LOCATED AT THE DESIGNATED LEVEL. THAT ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL ALSO ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT.

3 / E003 ELEVATOR HOISTWAY DETAIL
NO SCALE

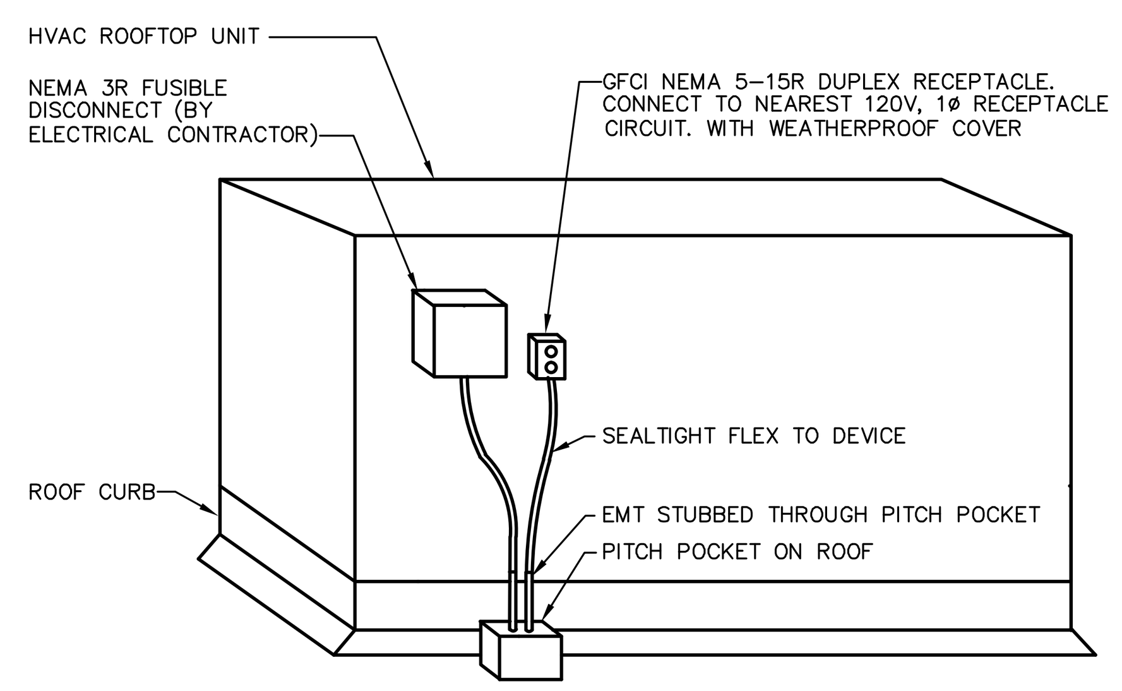


2 / E003 DOOR ACCESS CONTROL ELEVATION
NO SCALE



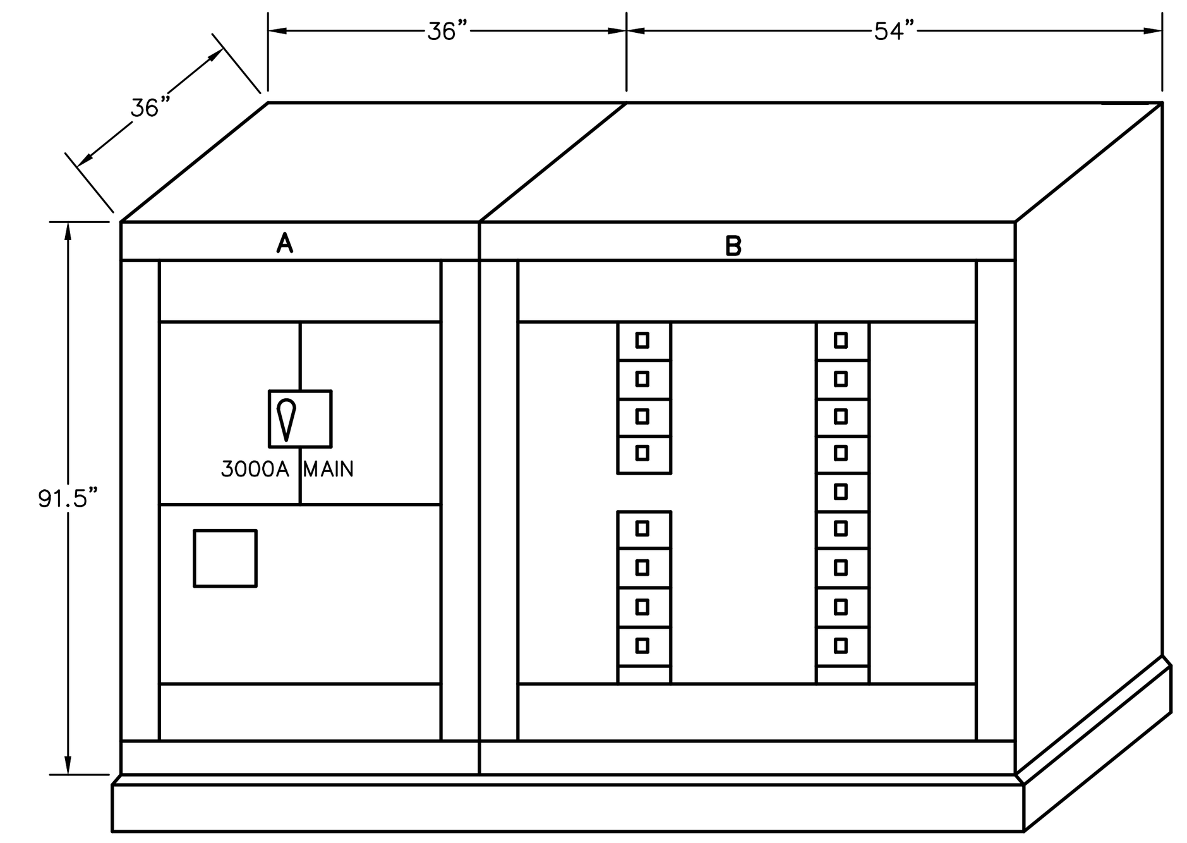
NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

1 / E003 DEVICE MOUNTING ELEVATION
NO SCALE



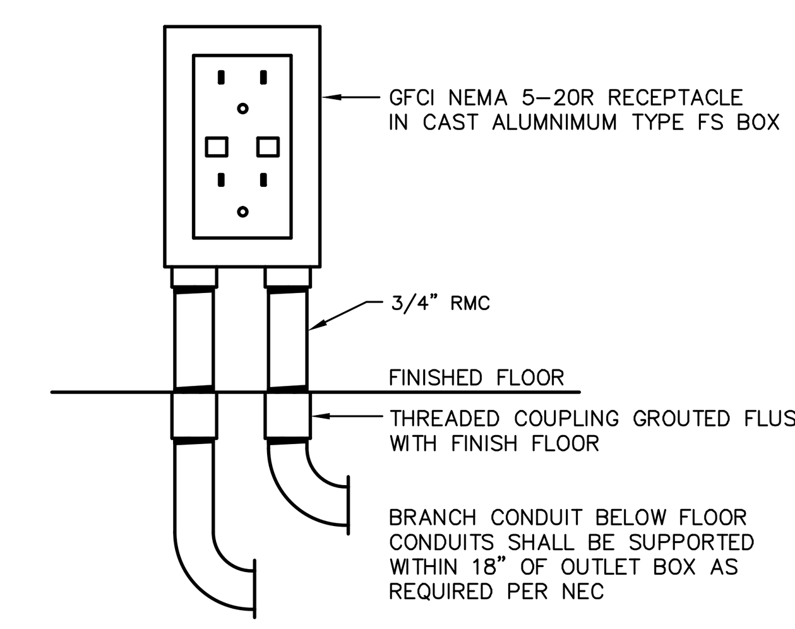
NOTE: TYPICAL FOR ALL ROOF MOUNTED HVAC EQUIPMENT.

7 / E003 ROOFTOP RECEPTACLE DETAIL
NO SCALE

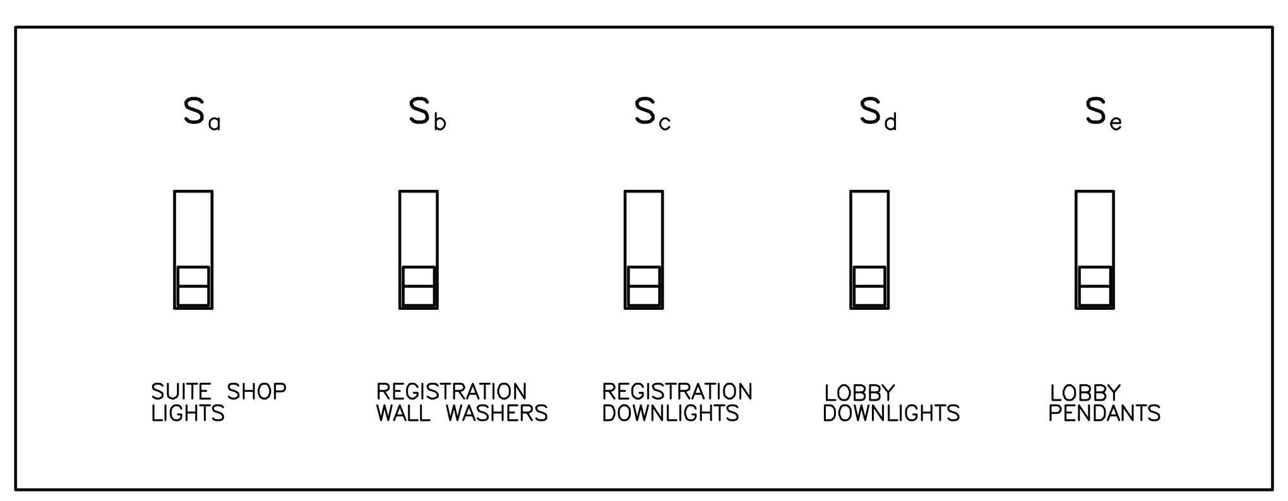


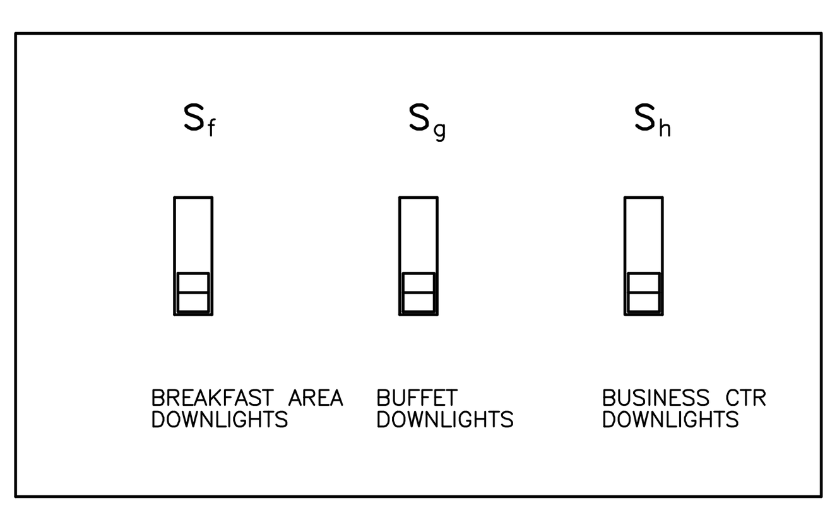
NOTE:
DIMENSIONS ARE BASED ON SQUARE D.

6 / E003 ELEVATION - MSB
NO SCALE

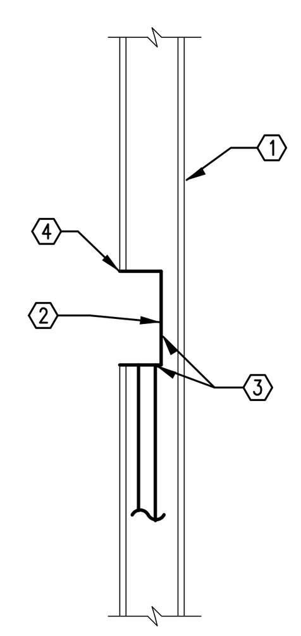


5 / E003 STUBBED UP RECEPTACLE DETAIL
NO SCALE





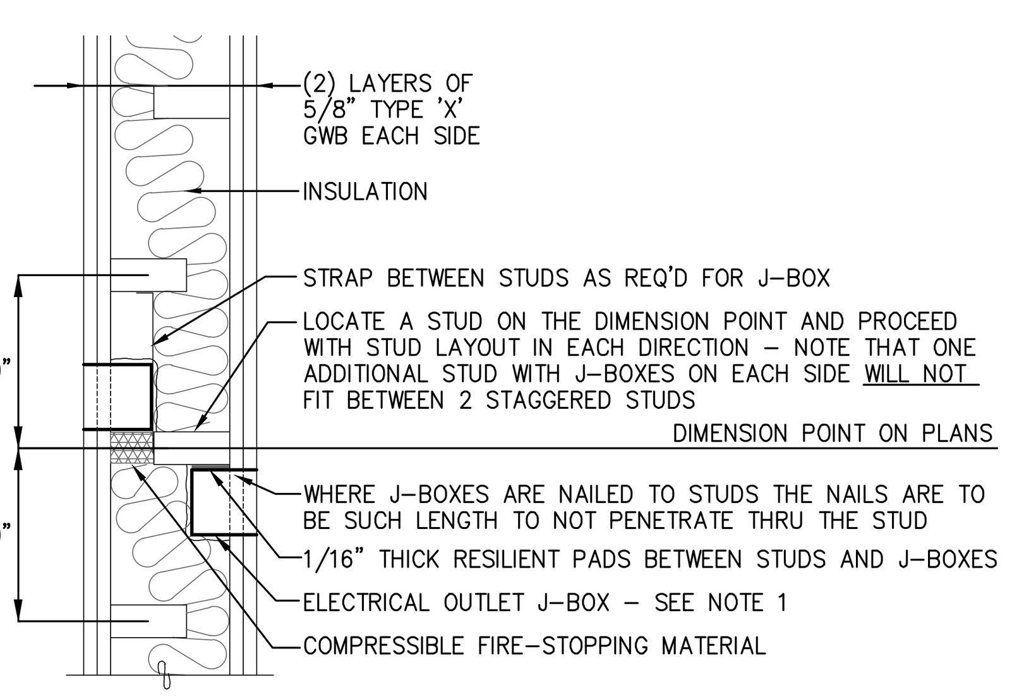
12 / E003 LOBBY SWITCH BANK DETAIL
NO SCALE



1. 1 OR 2 HOUR WALL ASSEMBLY EQUIVALENT TO UL300 OR UL400 SERIES.
2. ELECTRICAL OUTLET BOX, NOT MORE THAN 100 SQUARE INCHES PER 100 SQUARE FEET WALL AREA.
3. MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE BOX WITHIN THE STUD CAVITY WITH A BALL OF THE PUTTY MATERIAL USED TO PLUG THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOX.
4. PUTTY PAD EQUIVALENT TO 3M #MPP–4S. 1/8" THICK PADS REQUIRED FOR 1 HOUR WALLS 1/4" THICK PADS REQUIRED FOR 2 HOUR WALLS A MAXIMUM 1/8" GAP BETWEEN BOX AND WALLBOARD.

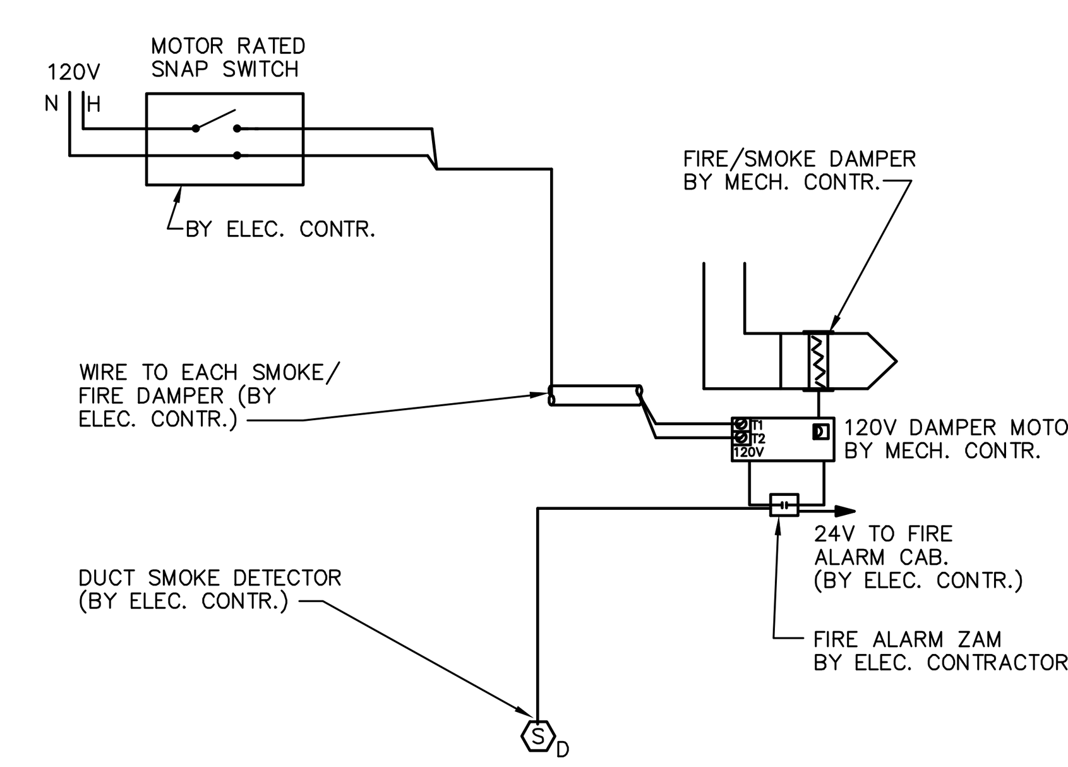
NOTE: THIS DETAIL APPLIES TO 1 AND 2 HOUR WALL ASSEMBLIES WITH 4"x4" FLUSH ELECTRICAL BOXES ON OPPOSITE SIDE OF WALLS THAT HAVE LESS THAN 24" SEPARATION BETWEEN THEM. BOXES NOT PERMITTED BACK–TO–BACK.

11 / E003 PENETRATION DETAIL
NO SCALE



NOTES:
1. ELECTRICAL OUTLET BOXES AND SIMILAR BOXES FOR T.V., PHONE, ETC. IN PARTY WALLS MUST BE STEEL AND NOT OVER 16" SQUARE. SUCH BOXES ARE TO BE SEALED WITH 3M MPP–4S FIRE BARRIER PUDDY PAD OR EQUAL. STACK MULTIPLE BOXES VERTICALLY WHEN ON SAME SIDE OF WALL.
2. CONTRACTOR TO VERIFY ACCEPTABILITY OF THIS DETAIL WITH LOCAL JURISDICTION'S BUILDING INSPECTOR.

10 / E003 OUTLET J-BOX OFFSET DETAIL
NO SCALE



NOTES:
1. ALL FIRE/SMOKE DAMPERS SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ALL FIRE ALARM WIRING INSTALLED BY ELECTRICAL CONTRACTOR. 120V WIRING TO DAMPER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

8 / E003 SMOKE/FIRE DAMPER WIRING DETAIL
NO SCALE

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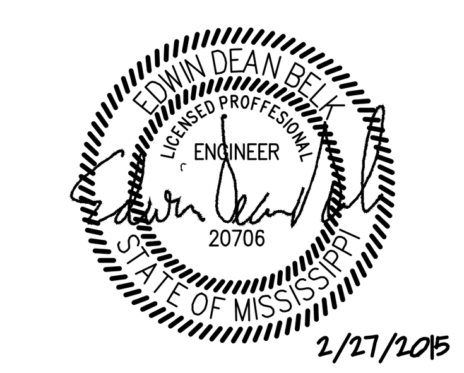
REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL DETAILS

Phase
Construction Documents

Project No. 14-081	Sheet No.	
Prepared by MAH	E003	
Checked by EDB		
Date Feb. 27, 2015		

Holiday Inn Express & Suites

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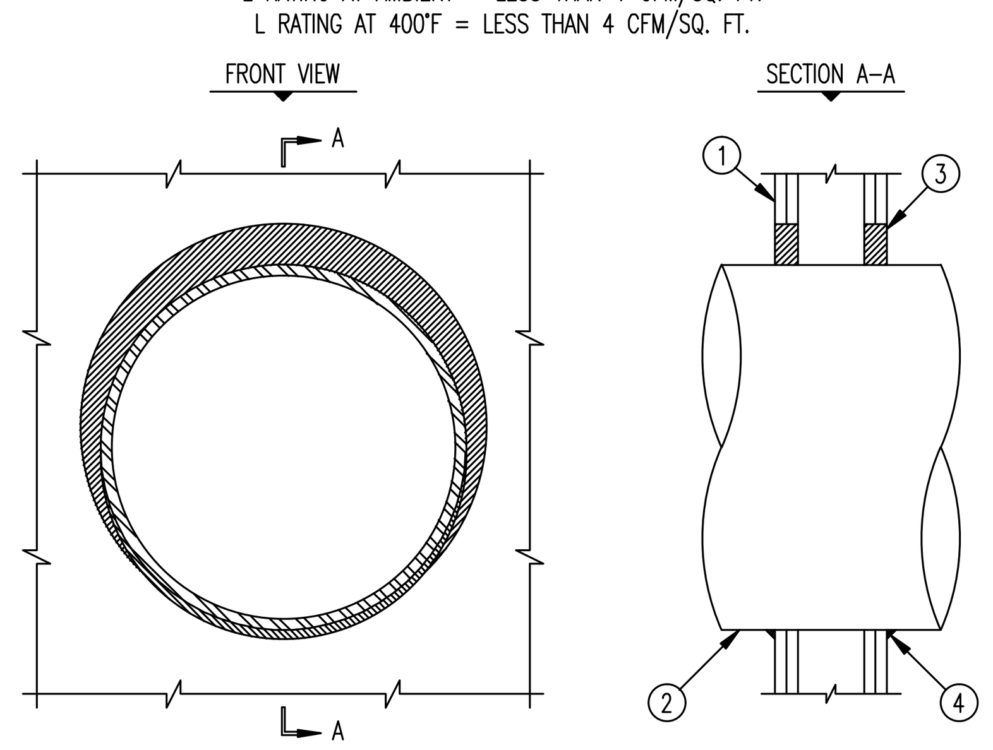
U.L. SYSTEM NO. WL1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 6" DIAMETER COPPER PIPE.
   C. MAXIMUM 6" DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" DIAMETER STEEL EMT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

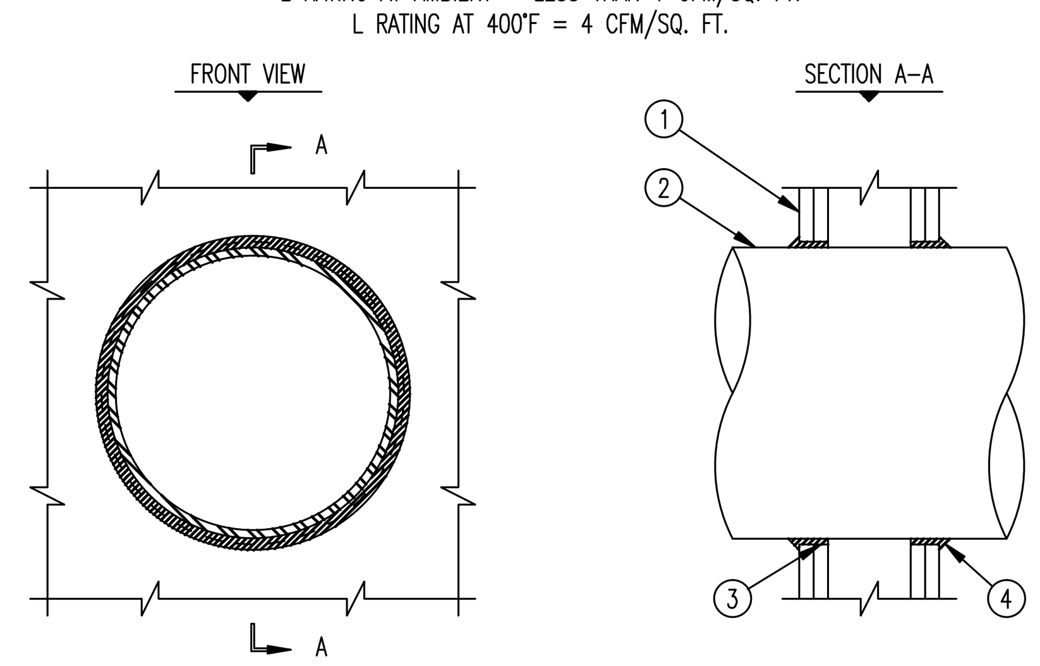
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 32-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1085

EMT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 12" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" DIAMETER COPPER PIPE.
   D. MAXIMUM 6" DIAMETER EMT.
   E. MAXIMUM 6" DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT PIPE/GYPSUM WALLBOARD INTERFACE.

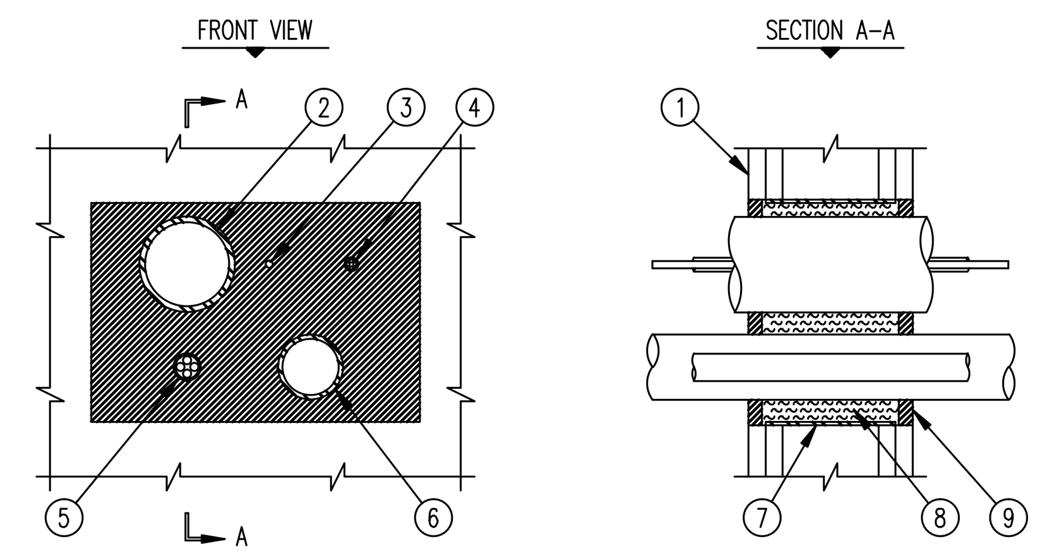
NOTE : ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8004

MULTIPLE METAL PIPE AND CABLE THROUGH 2-HR. GYPSUM WALL

F RATING = 2-HR.
T RATING = 1/4-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (2-HR. FIRE-RATING).
2. MAXIMUM 3" DIAMETER ELECTRICAL METALLIC TUBING (EMT).
3. MAXIMUM 25 PAIR NO. 24 AWG (OR SMALLER) TELEPHONE CABLES.
4. MAXIMUM 3/C NO. 10 AWG NM (WITH GROUND) POWER CABLE WITH PVC INSULATION.
5. MAXIMUM 300 KCMIL (OR SMALLER) POWER CABLE WITH PVC INSULATION & NYLON JACKET.
6. MAXIMUM 2" DIAMETER STEEL PIPE, COPPER PIPE, EMT, OR STEEL CONDUIT.
7. NO. 8 STEEL WIRE MESH, 4-3/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREWED SECURELY IN PLACE) CENTERED IN OPENING.
8. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
9. MIN. 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

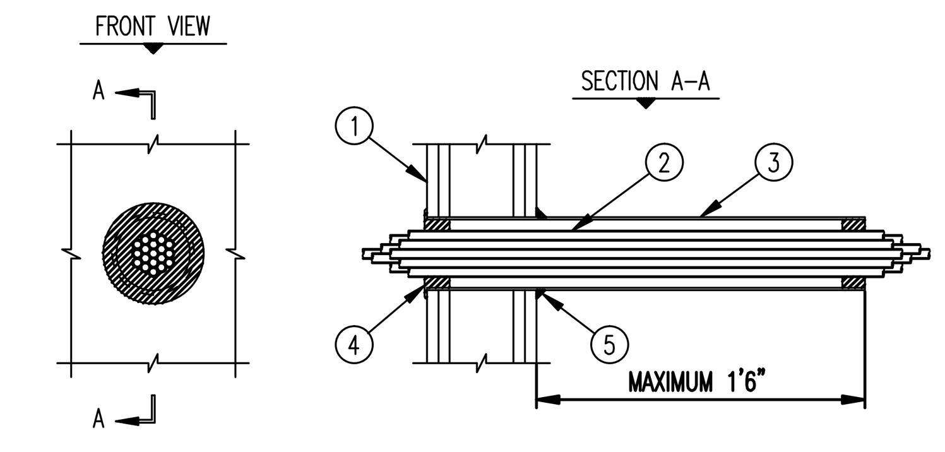
NOTES : 1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES WITH A MAX. DIM. OF 12".
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4", MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2", MAXIMUM 7". (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM EDGE OF OPENING.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL3065

CABLE BUNDLE THROUGH 1-HR. OR 2-HR. FIRE-RATED GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING :
   A. 7/C NO. 12 AWG CABLES.
   B. 12 PAIR 24 AWG PHONE CABLES.
   C. 25 PAIR 24 AWG PHONE CABLES.
   D. RG 59 COAXIAL CABLES.
   E. 2/C (+GND) NO. 14 AWG METAL-CLAD CABLES.
   F. 2/C NO. 8 AWG METAL-CLAD CABLES.
   G. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES.
3. OPTIONAL : MAX. 4" NOM. DIA. STEEL PIPE SLEEVE (SCH. 40 OR THINNER)(SEE NOTE NO. 4).
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. SEE NOTE NO. 4 BELOW.

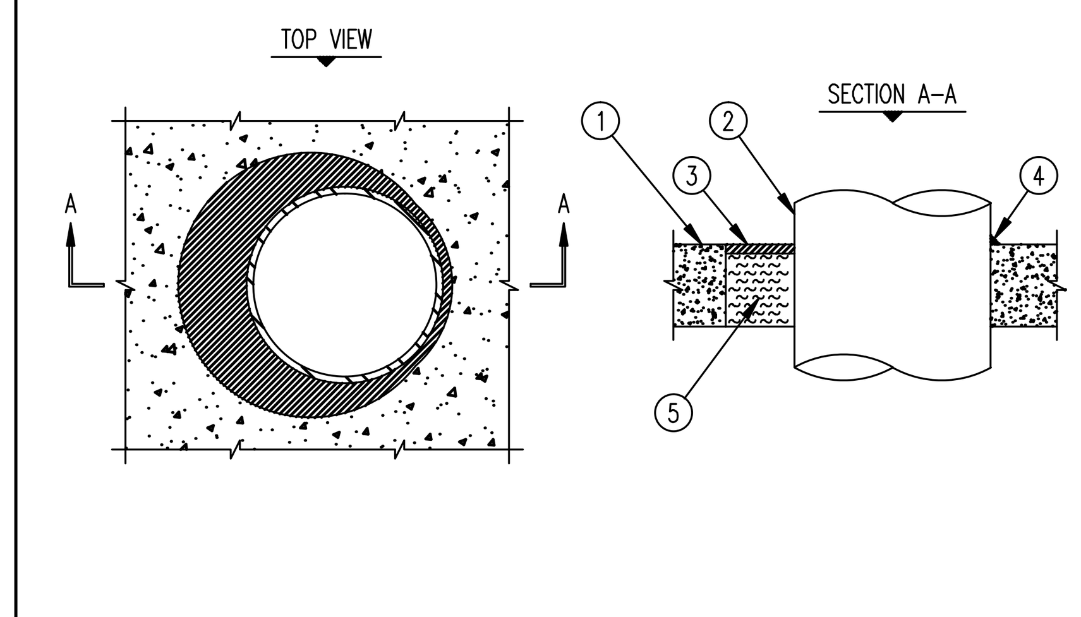
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 4-1/2".
2. CABLES TO FILL MAXIMUM 33% OF AREA OF OPENING.
3. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4".
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 18" BEYOND WALL SURFACE IN ANY COMBINATION. WHEN SLEEVE IS FLUSH WITH WALL, APPLY HILTI FS-ONE FIRESTOP SEALANT ONTO WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY 1/2" CROWN HILTI FS-ONE FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. CAJ1149

METAL PIPE THROUGH CONCRETE FLOOR, WALL, OR BLOCK WALL

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



1. CONCRETE FLOOR OR WALL ASSEMBLY :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 4-1/2" THICK).
   C. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. THROUGH PENETRANTS TO INCLUDE ANY OF THE FOLLOWING :
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE.
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER EMT.
   D. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
3. MIN. 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
4. MIN. 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 4" THICK MINERAL WOOL (MIN. 4 PCF DENSITY) (SEE NOTE NO. 4).

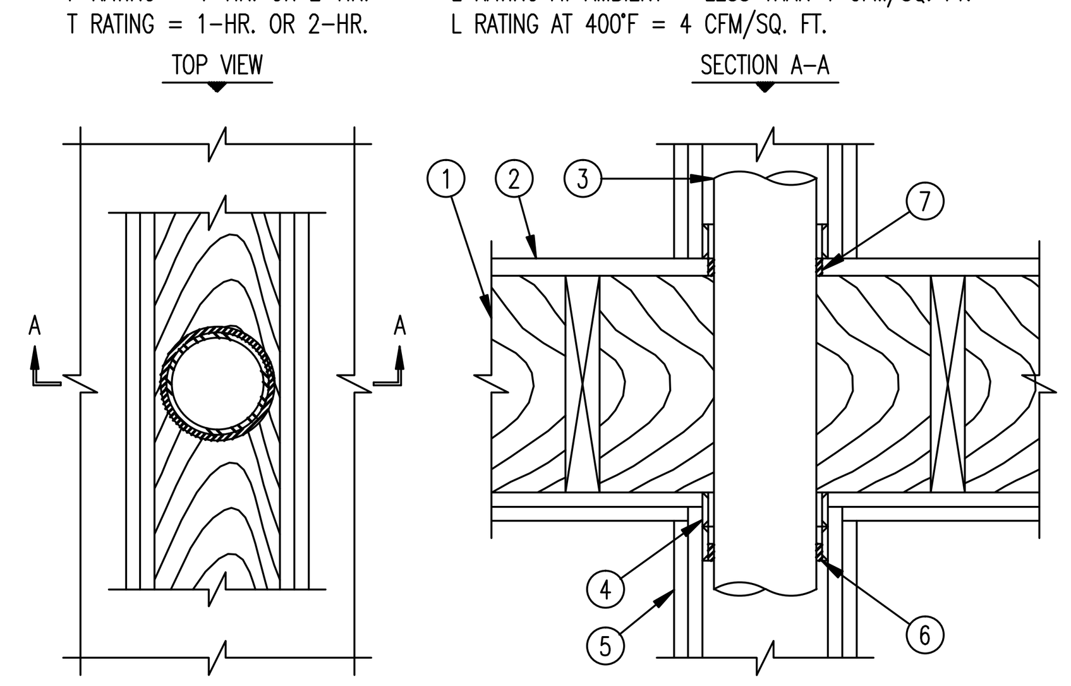
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 12".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2".
3. WALLS REQUIRE 1/2" DEPTH OF SEALANT FLUSH WITH BOTH SIDES.
4. IF MAXIMUM PIPE SIZE IS 4" NOM. DIA., A MINIMUM 3" THICKNESS OF MINERAL WOOL MAY BE USED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. FC1009

METAL PIPE/CONDUIT THROUGH 1-HR. OR 2-HR. WOOD FLOOR ASSEMBLY

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
T RATING = 1-HR. OR 2-HR. L RATING AT 400°F = 4 CFM/SQ. FT.



1. WOOD FLOOR ASSEMBLY : DESIGN NO. L500 SERIES IN THE U.L. FIRE RESISTANCE DIRECTORY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOP MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   C. MAX. 4" NOM. DIA. NOM. OR STANDARD COPPER WATER TUBE (TYPE L OR HEAVIER).
   D. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. TOP PLATE .
5. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
6. PROVIDE A GENEROUS BEAD OF HILTI FS 601 ELASTOMERIC FIRESTOP SEALANT OR HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT THE TOP PLATE.
7. MIN. 3/4" DEPTH HILTI FS 601 ELASTOMERIC FIRESTOP SEALANT OR FS-ONE FIRESTOP SEALANT.

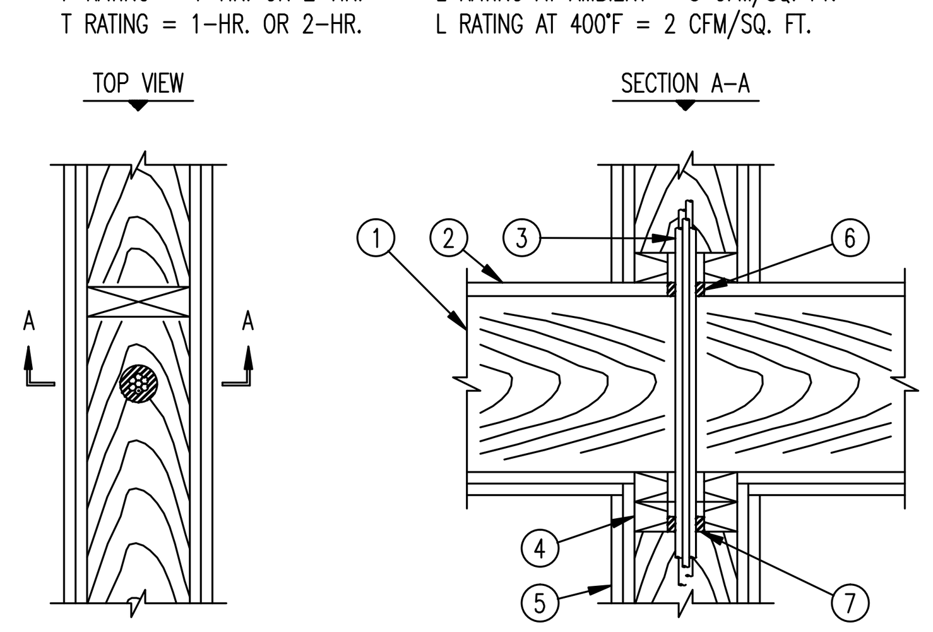
NOTE : ANNULAR SPACE = MINIMUM 1/8", MAXIMUM 3/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. FC3012

CABLE/CABLE BUNDLE THROUGH 1-HR. OR 2-HR. WOOD FLOOR ASSEMBLY

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 1-HR. OR 2-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. WOOD FLOOR ASSEMBLY : DESIGN NO. L500 SERIES IN THE U.L. FIRE RESISTANCE DIRECTORY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. MAXIMUM 2" DIAMETER CABLE BUNDLE MAY CONSIST OF ANY OF THE FOLLOWING :
   A. RG 59 COAXIAL CABLE.
   B. MAXIMUM 8/C NO. 22 AWG TELEPHONE CABLE.
   C. MAXIMUM 3/C NO. 10 AWG CABLE (ROMEX).
   D. MAXIMUM 3/C (+GRND) 2/0 AWG SER CABLE (ALUMINUM OR COPPER).
   E. MAXIMUM 2/C NO. 12 AWG CABLE.
4. TOP PLATE.
5. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
6. MINIMUM 3/4" DEPTH HILTI FS-ONE FIRESTOP SEALANT.
7. PROVIDE A GENEROUS BEAD OF HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT THE TOP PLATE.

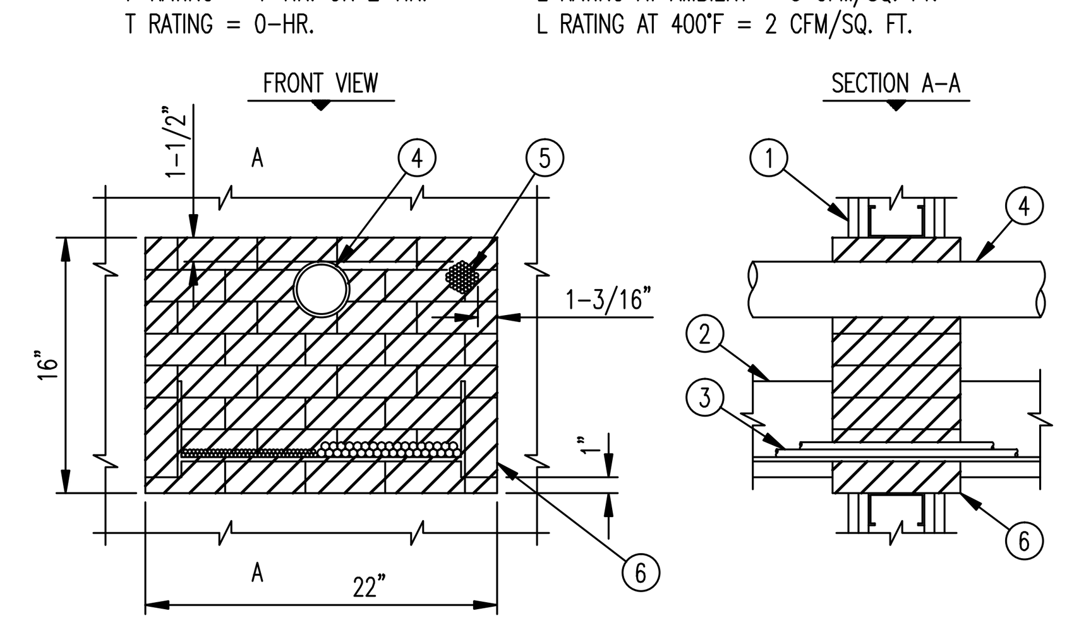
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".
2. ANNULAR SPACE BETWEEN CABLE BUNDLE AND OPENING = MIN. 0", MAX. 1/2".
3. CABLES TO FILL A MAXIMUM OF 45% OF CROSS-SECTIONAL AREA OF OPENING.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8013

MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 18" x 6").
3. ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAX. 30% FILL ON CABLE TRAY :
   A. 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. 300 PAIR NO. 24 AWG TELEPHONE CABLE.
4. MAXIMUM 3" DIAMETER PVC PLASTIC PIPE (SCHEDULE 40)(CLOSED OR VENTED PIPING SYSTEM).
5. CABLE BUNDLE (MAX. 2" DIA.) TO CONSIST OF ANY OF THE FOLLOWING:
   A. FIBER-OPTIC CABLE.
   B. RG 59 COAXIAL CABLE.
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   D. 7/C NO. 12 AWG COPPER CONDUCTOR.
6. HILTI FS 657 FIRESTOP BLOCKS (2" x 5" x 8" DEEP, REF: FRONT VIEW).

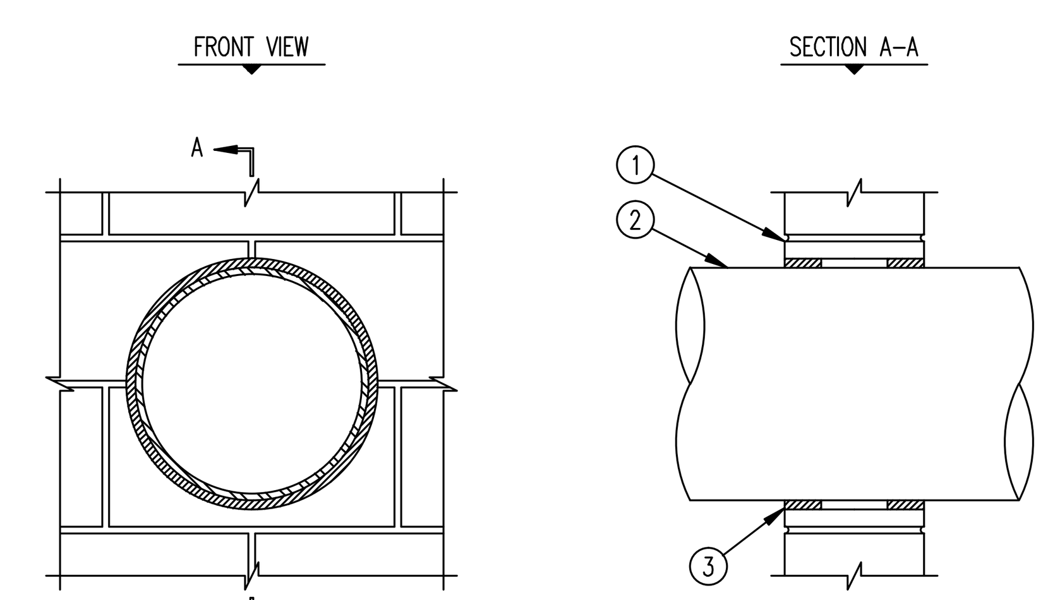
NOTES : 1. NOT SHOWN: PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 4" DIA. STEEL OR COPPER PIPE, EMT, OR STEEL CONDUIT WITH A MAX. 1-1/2" GLASS-FIBER PIPE INSULATION OR NON-INSULATED MAX. 4" STEEL PIPE, EMT, OR CONDUIT.
2. ANNULAR SPACE = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRATING ITEMS, OR BETWEEN BLOCKS).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ1042

METALLIC PIPE THROUGH 4-HR. CONCRETE OR CONCRETE BLOCK WALL

F RATING = 4-HR.
T RATING = 0-HR.



1. CONCRETE WALL ASSEMBLY (4-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL.
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL ASSEMBLY.
2. PENETRATING ITEM TO BE ANY ONE OF THE FOLLOWING :
   A. MAXIMUM 12" DIAMETER STEEL PIPE.
   B. MAXIMUM 6" DIAMETER COPPER PIPE.
   C. MAXIMUM 6" DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" DIAMETER EMT.
3. MIN. 2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

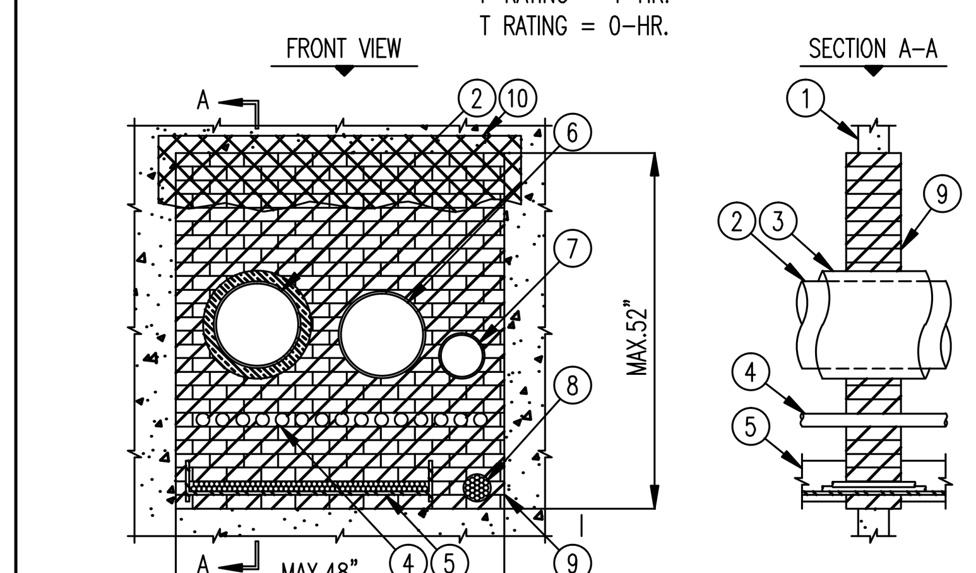
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 13-3/4".
2. ANNULAR SPACE = MINIMUM 3/8", MAXIMUM 1/2".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ8007

MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

F RATING = 4-HR.
T RATING = 0-HR.

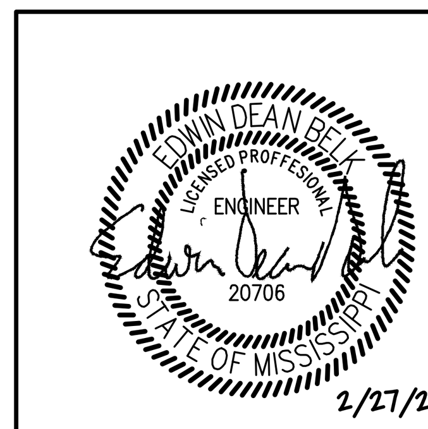


1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 4-1/2" THICK).
2. MAXIMUM 12" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15).
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 36" x 6") WITH ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES.
6. MAXIMUM 30" DIAMETER STEEL PIPE (12" DIAMETER PIPE SHOWN).
7. 6" DIAMETER STEEL PIPE.
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (MAX. 1/2" DIA). D. 7/C NO. 12 AWG CABLES.
   B. ROMEX (2/C NO. 10 +GROUND). E. RG 62A COAXIAL CABLES.
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLES. F. METAL CLAD CABLE (MAX. 3/4" DIA).
9. HILTI FS 657 INTUMESCENT FIRESTOP BLOCK (2" TALL x 5" WIDE x 8" DEEP, REF: FRONT VIEW).
10. SEE NOTE NO. 4 BELOW.

NOTES : 1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS).
4. IF THE ANNULAR SPACE IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG). INSTALL ON EACH SIDE OF WALL ASSEMBLY.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

ELECTRICAL DETAILS

Phase
Construction Documents

Project No. 14-081	Sheet No.	
Prepared by MAH	E004	
Checked by EDB		
Date Feb. 27, 2015		

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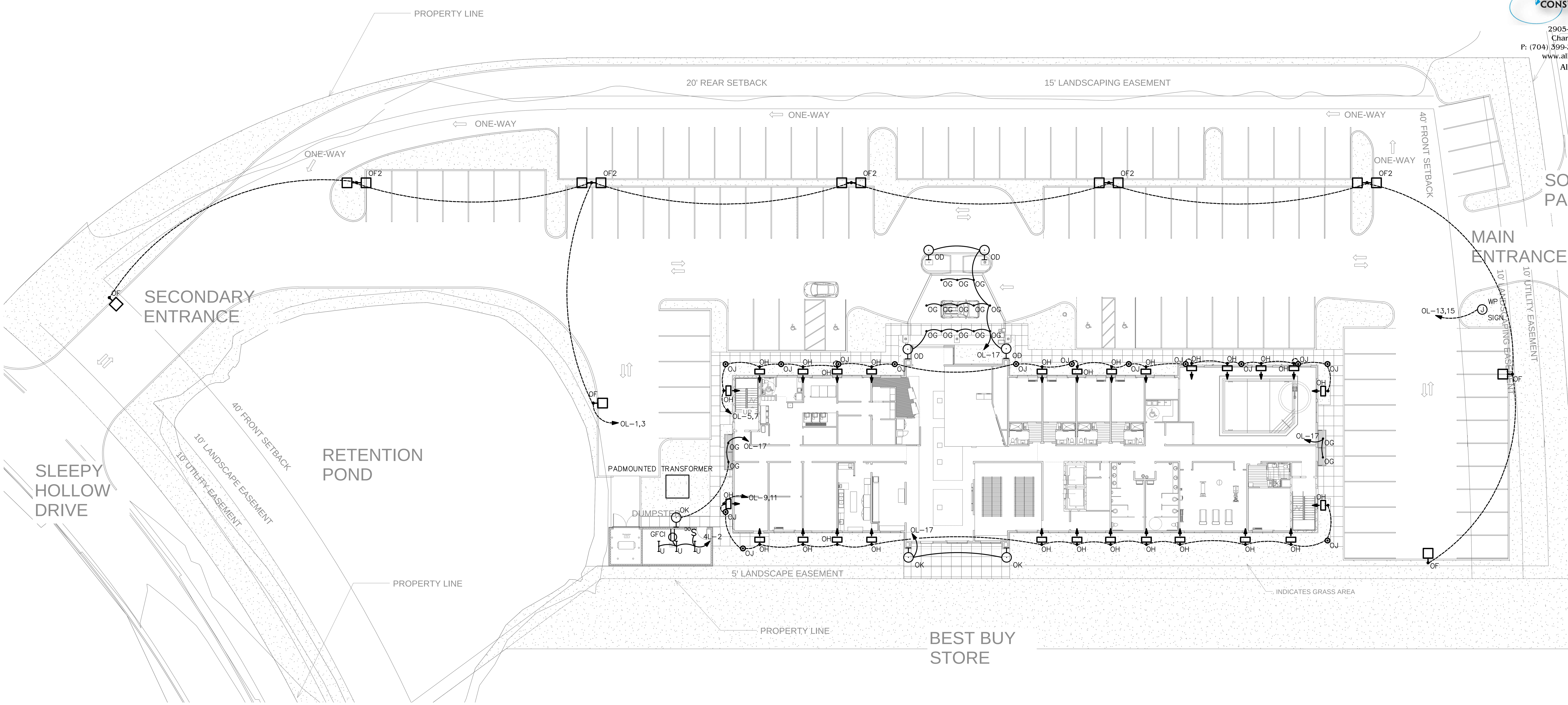
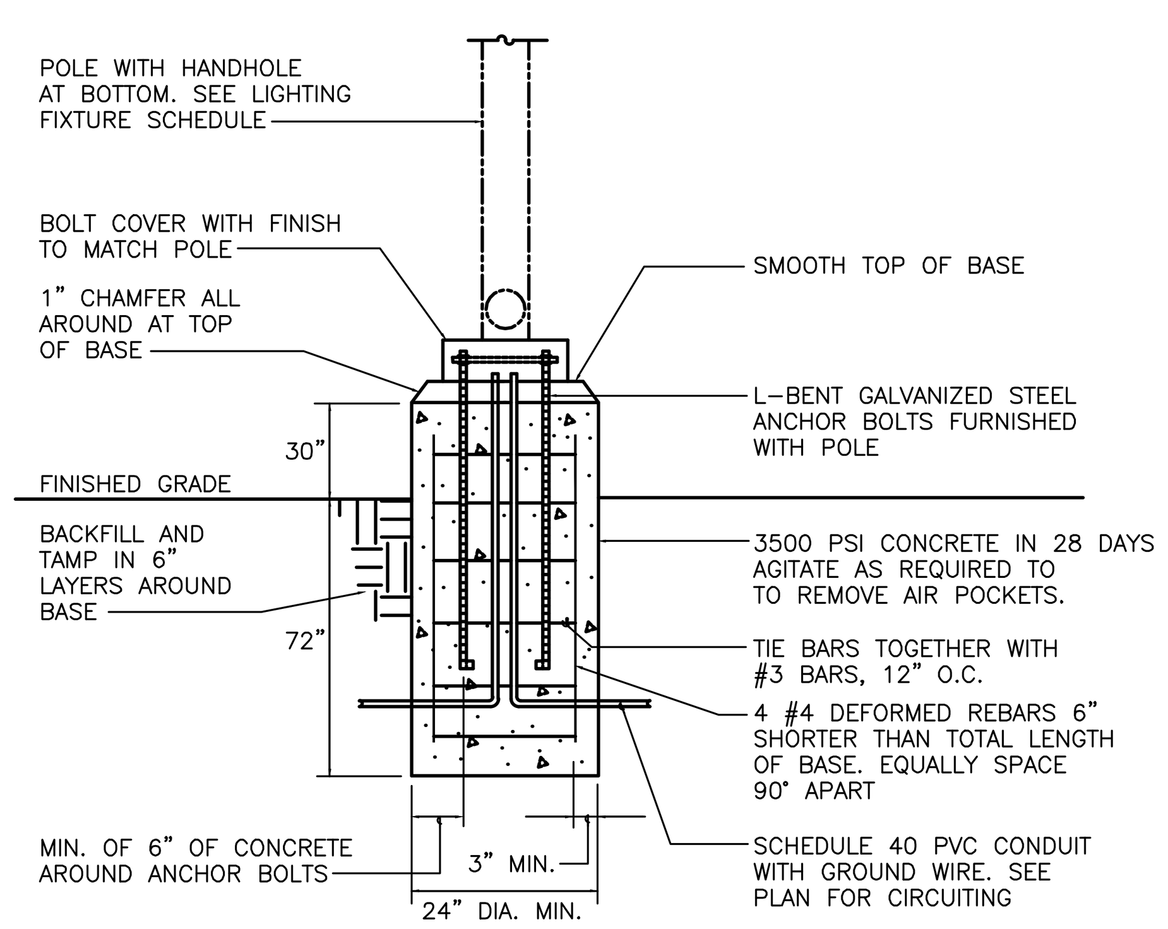
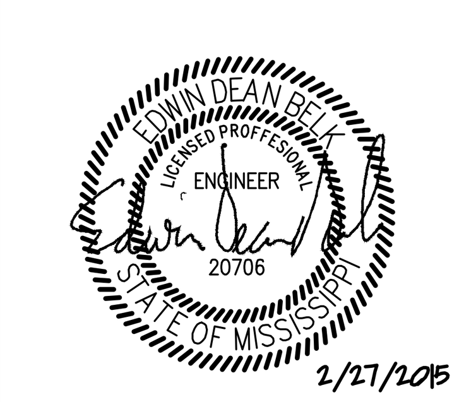


1 E100 **SITE PLAN - ELECTRICAL**
1" = 20'



2 E100 **POLE BASE DETAIL**
NO SCALE

REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
SITE PLAN - ELECTRICAL

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E100
Checked by	EDB	
Date	Feb. 27, 2015	

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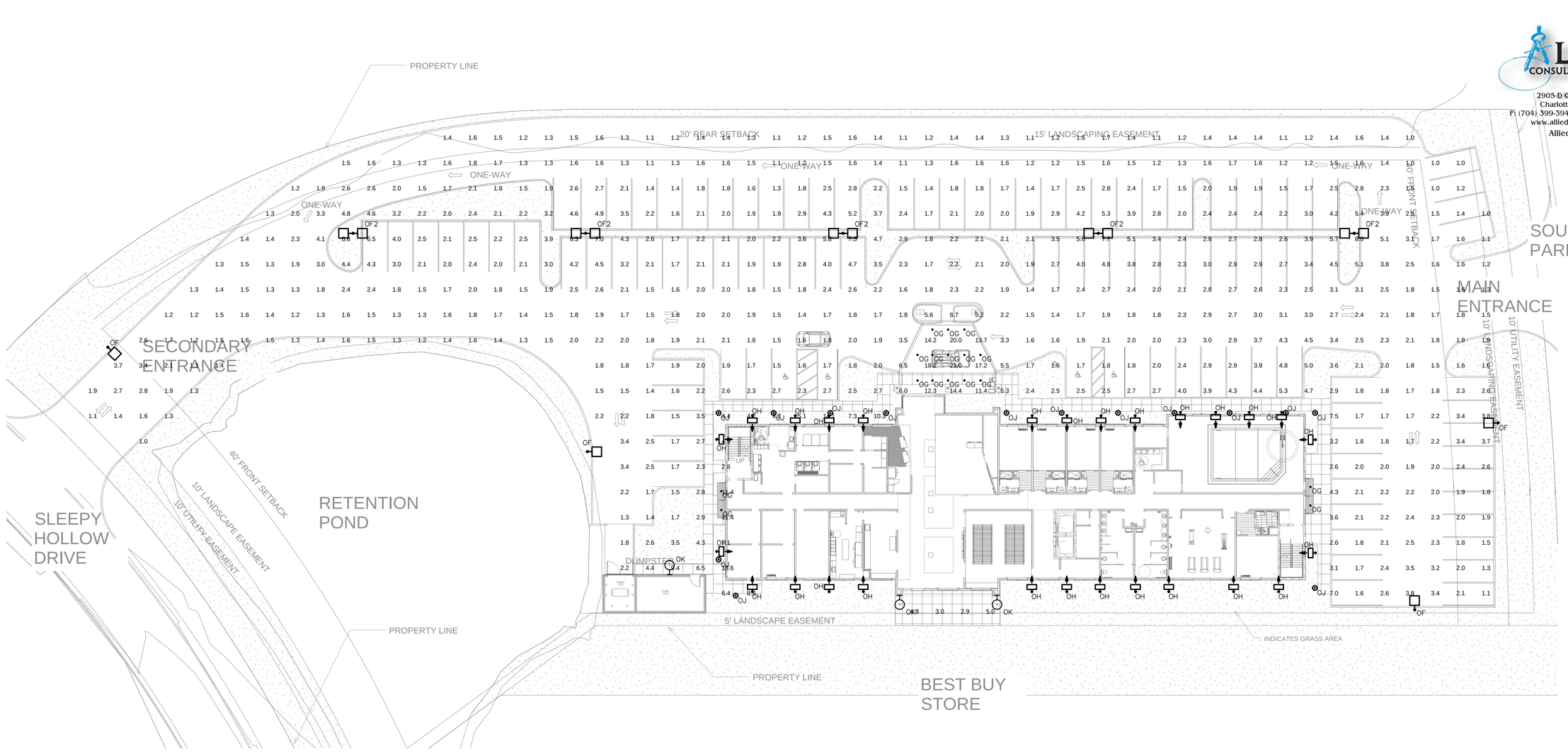

EXTERIOR LIGHT FIXTURE SCHEDULE											
Symbol	Label	Image	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	
	OF		5	TLM-B06-LED-E1-SL4 COOPER	TALON MEDIUM LED SITE LUMINAIRE (6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		126	94.05752	0.91	146	
	OF2		5	TLM-B06-LED-E1-SL4 COOPER	TALON MEDIUM LED SITE LUMINAIRE (6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		126	94.05752	0.91	292	
	OG		17	FFLD6A15D010TE FERM6A15835 FV6LM0LI FVBT682 COOPER	FAIL-SAFE 6INCH LED RECESSED VANDAL RESISTANT DOWNLIGHT MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM AND PRISMATIC POLYCARBONATE LENS	(1) 3500K CITIZEN LED	1	1449.474	0.91	21.9	
	OJ		14	DSXB LED 16C 700 30K SYM LITHONIA	D-SERIES BOLLARD WITH 16 3000K LEDS OPERATED AT 700mA AND SYMMETRIC DISTRIBUTION	LED	1	1633.567	0.91	39	
	OK		3	WSR LED 2 10A700/30K SR3 MVOLT COOPER	WSR LED WITH 1 MODULE, 20 LED's, 700mA DRIVER, 3000K COLOR TEMPERATURE, TYPE 3 LENS	LED	1	3422.5	0.91	47	
	OH		27	NFFLD-A40 COOPER	LED FLOOD LIGHT	LED	1	14683	0.91	129	

1 E100A **SITE PLAN - PHOTOMETRICS**
1" = 20'

Statistics						
Description	Avg	Max	Min	Max/Min	Avg/Min	
Parking Area	2.7 fc	21.0 fc	1.0 fc	21.0:1	2.7:1	

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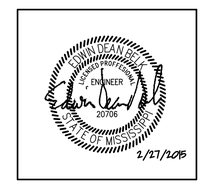
REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
SITE PLAN - PHOTOMETRICS

Phase
Construction Documents

Project No.	14-081	Sheet No.	E100A
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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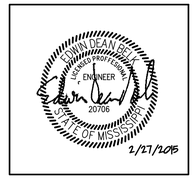

KEY PLAN

Shiva Southaven Inc.

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Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

1ST FLOOR PLAN - LIGHTING

Phase
Construction Documents

Project No.	14-081	Sheet No.	E101
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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1 E101 1ST FLOOR PLAN - LIGHTING

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

NOTES:
1. CONNECT EXIT/EMERGENCY LIGHTS TO NEAREST CIRCUIT AHEAD OF ALL CONTROLS.

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REVISIONS		
No.	Date	Description
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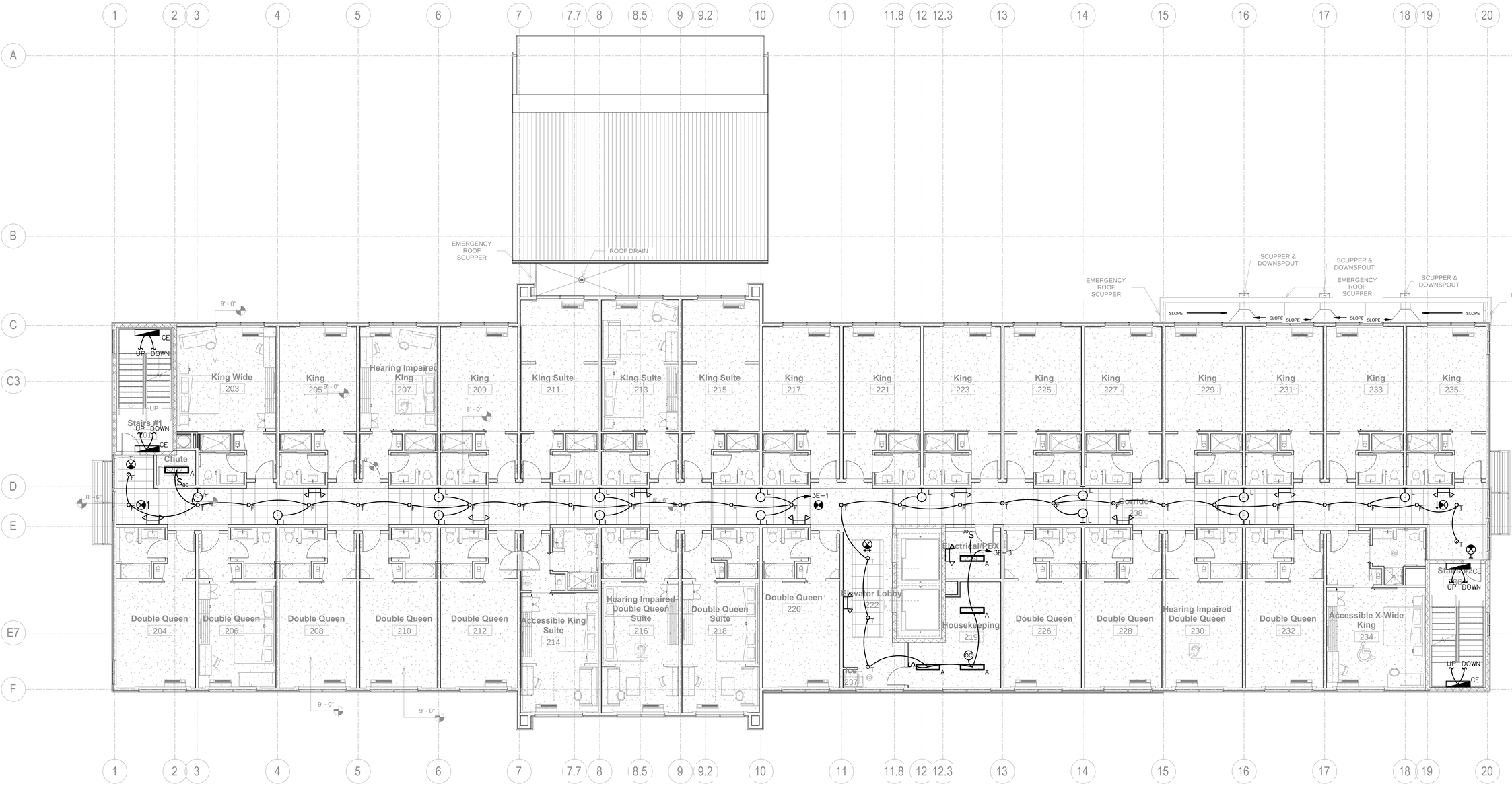
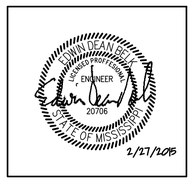


1 E102 2ND FLOOR PLAN - LIGHTING

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

NOTES:
1. CONNECT EXIT/EMERGENCY LIGHTS TO NEAREST CIRCUIT AHEAD OF ALL CONTROLS.



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
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Southaven, MS 38671

Drawing Title
2ND FLOOR PLAN - LIGHTING

Phase
Construction Documents

Project No.	14-081	Sheet No.	E102
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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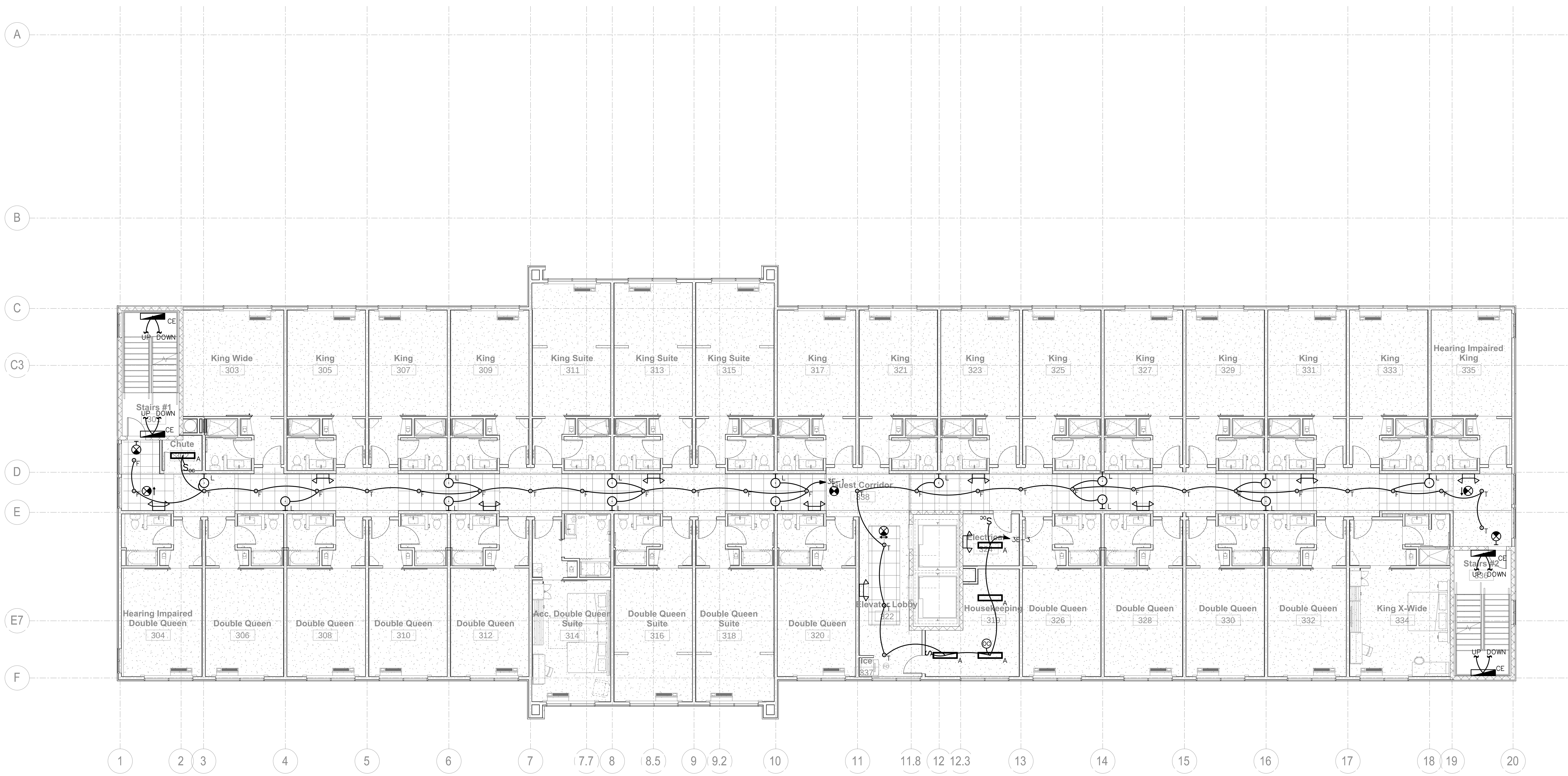

1 E103 3RD FLOOR PLAN - LIGHTING

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

NOTES:
1. CONNECT EXIT/EMERGENCY LIGHTS TO NEAREST CIRCUIT AHEAD OF ALL CONTROLS.

REVISIONS		
No.	Date	Description
1		

2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

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Southcrest Subdivision
Southaven, MS 38671

Drawing Title
3RD FLOOR PLAN - LIGHTING

Phase
Construction Documents

Project No.	14-081	Sheet No. E103
Prepared by	MAH	
Checked by	EDB	
Date	Feb. 27, 2015	

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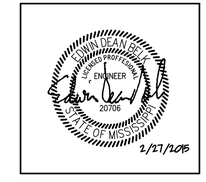
REVISIONS		
No.	Date	Description
1		

1 / E104 **4TH FLOOR PLAN - LIGHTING**

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

NOTES:
1. CONNECT EXIT/EMERGENCY LIGHTS TO NEAREST CIRCUIT AHEAD OF ALL CONTROLS.



KEY PLAN

Shiva Southaven Inc.

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Lot 16 (Rev Lot 3) Southcrest Pkwy.
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Drawing Title
4TH FLOOR PLAN - LIGHTING

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E104
Checked by	EDB	
Date	Feb. 27, 2015	

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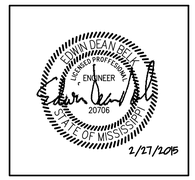

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

1ST FLOOR PLAN - POWER

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E201
Checked by	EDB	
Date	Feb. 27, 2015	

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1 E201 1ST FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

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REVISIONS		
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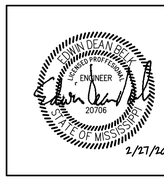

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
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Southaven, MS 38671

Drawing Title
2ND FLOOR PLAN - POWER

Phase
Construction Documents

Project No.	14-081	Sheet No.	E202
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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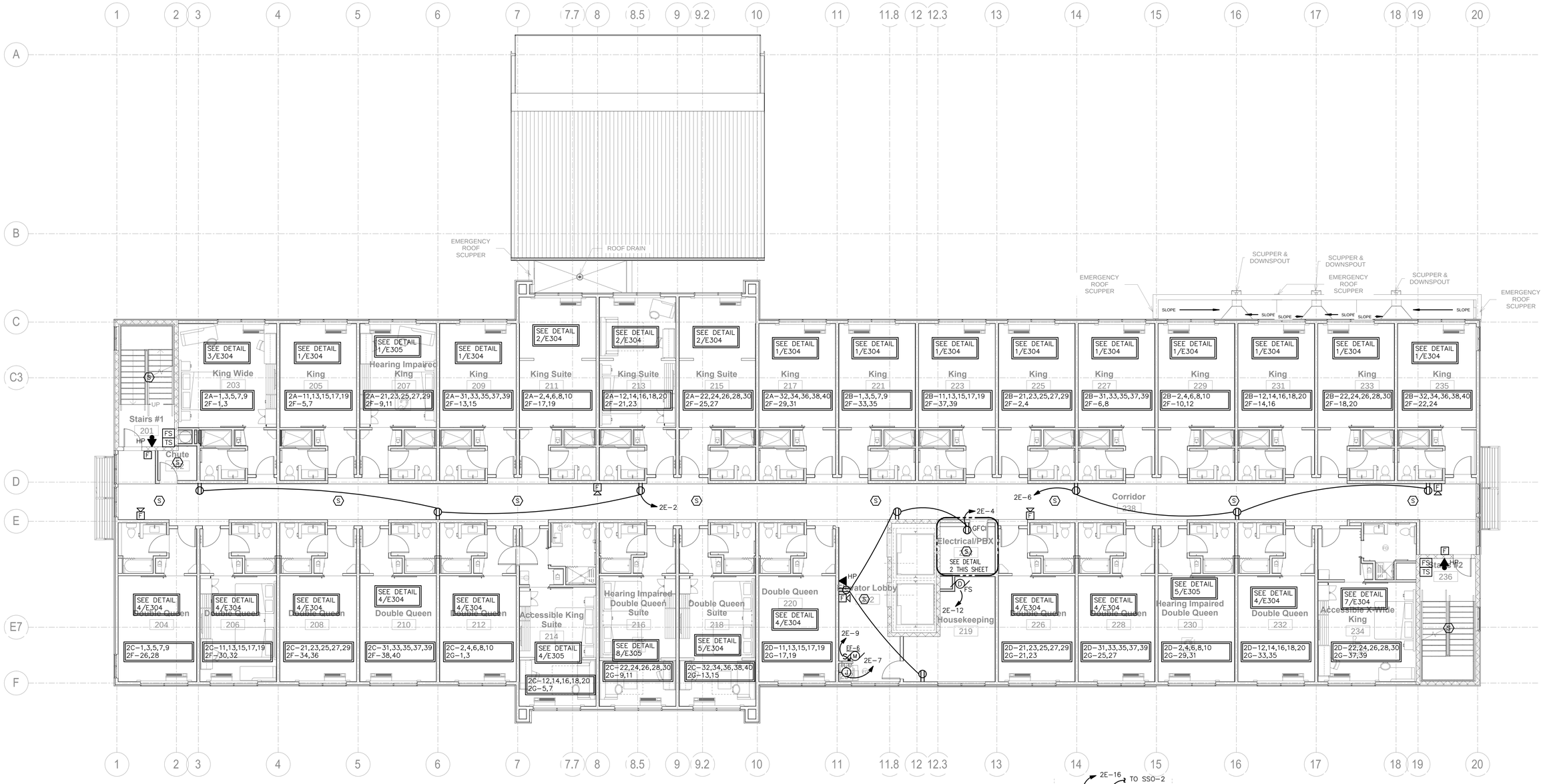
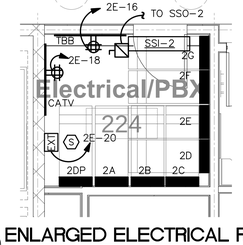


1 E202 2ND FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



2 E202 ENLARGED ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

NOTES:
FIELD COORDINATE THIS ROOM WITH OWNER'S IT REPRESENTATIVE PRIOR TO ANY ROUGH IN WORK. INSURE PROPER CLEARANCES ARE MET FOR WORKING SPACES OF ELECTRICAL PANELS.

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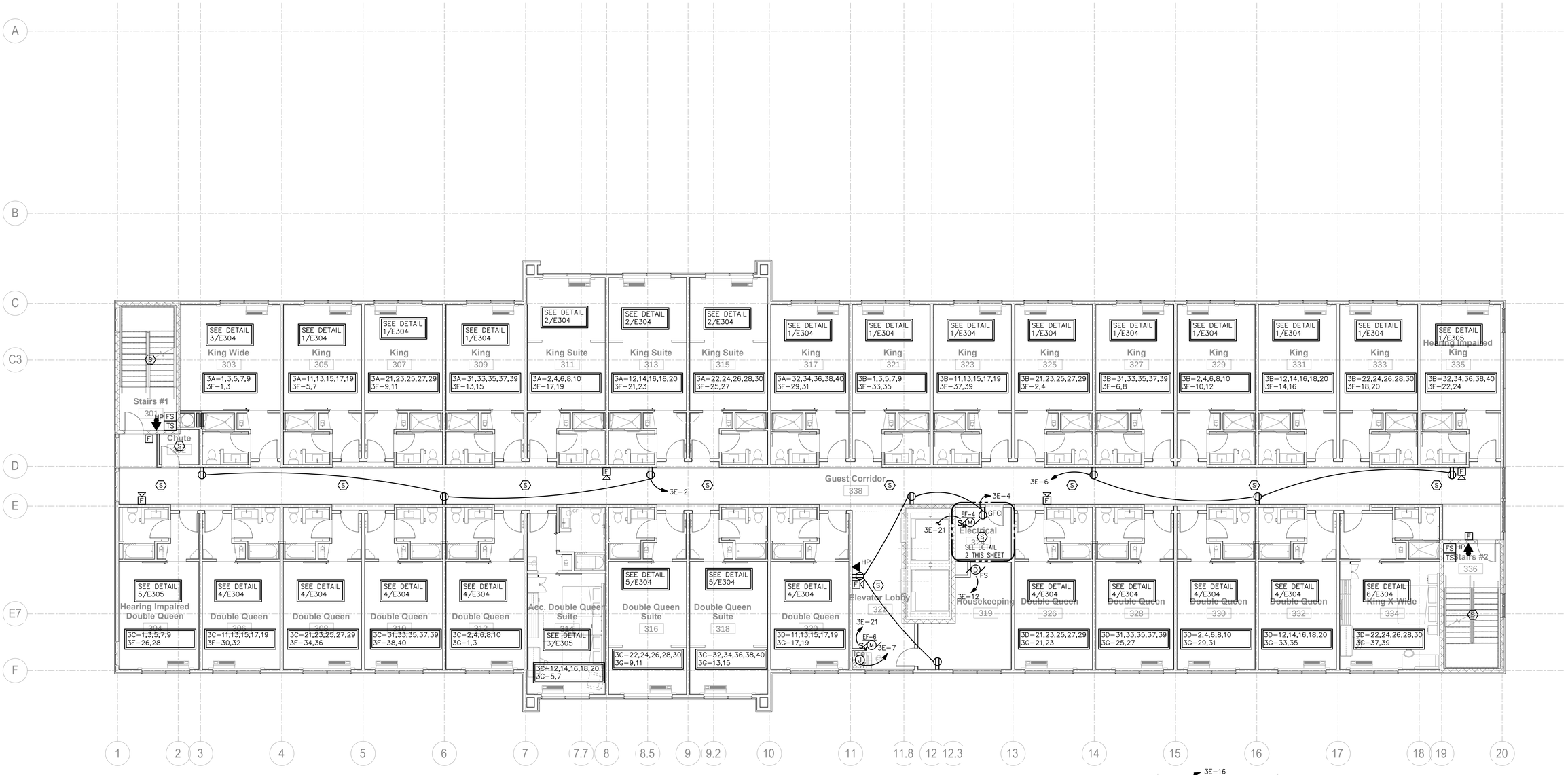
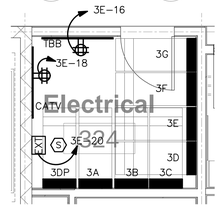
REVISIONS		
No.	Date	Description
1		

KEY PLAN



1 E203 **3RD FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"



2 E203 **ENLARGED ELECTRICAL ROOM**
SCALE: 1/4" = 1'-0"

Shiva Southaven Inc.

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Southaven, MS 38671

Drawing Title
3RD FLOOR PLAN - POWER

Phase
Construction Documents

Project No.	14-081
Prepared by	MAH
Checked by	EDB
Date	Feb. 27, 2015
Sheet No.	E203

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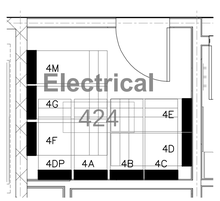
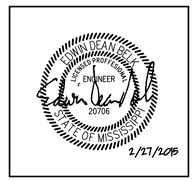
1 E204 4TH FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



2 E204 ENLARGED ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
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Drawing Title
4TH FLOOR PLAN - POWER

Phase
Construction Documents

Project No.	14-081	Sheet No.	E204
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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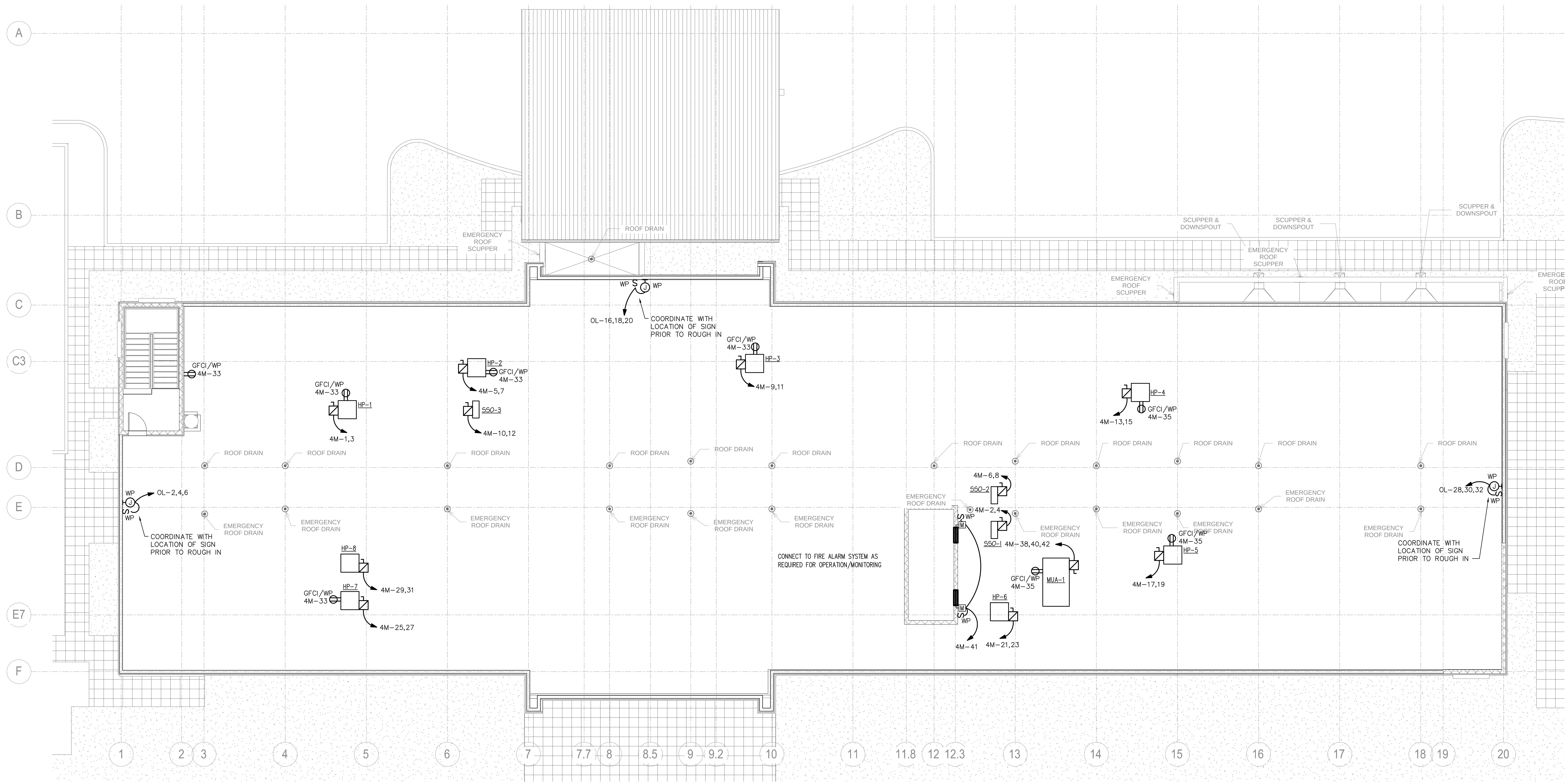
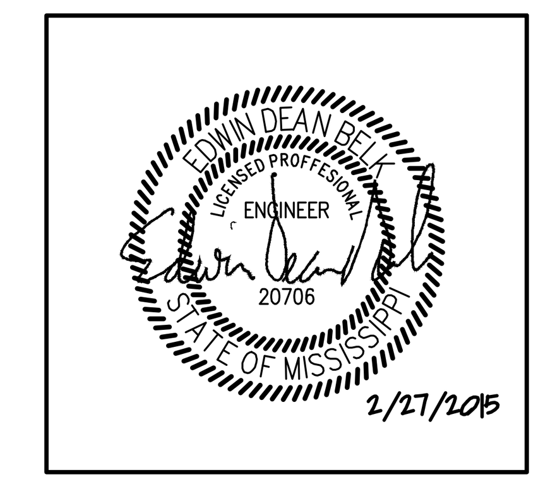


1 E205 ROOF PLAN - POWER
SCALE: 1/8" = 1'-0"

REVISIONS		
No.	Date	Description
1		



KEY PLAN

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Drawing Title
ROOF PLAN - POWER

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Construction Documents

Project No. 14-081		Sheet No.
Prepared by MAH		E205
Checked by EDB		
Date Feb. 27, 2015		

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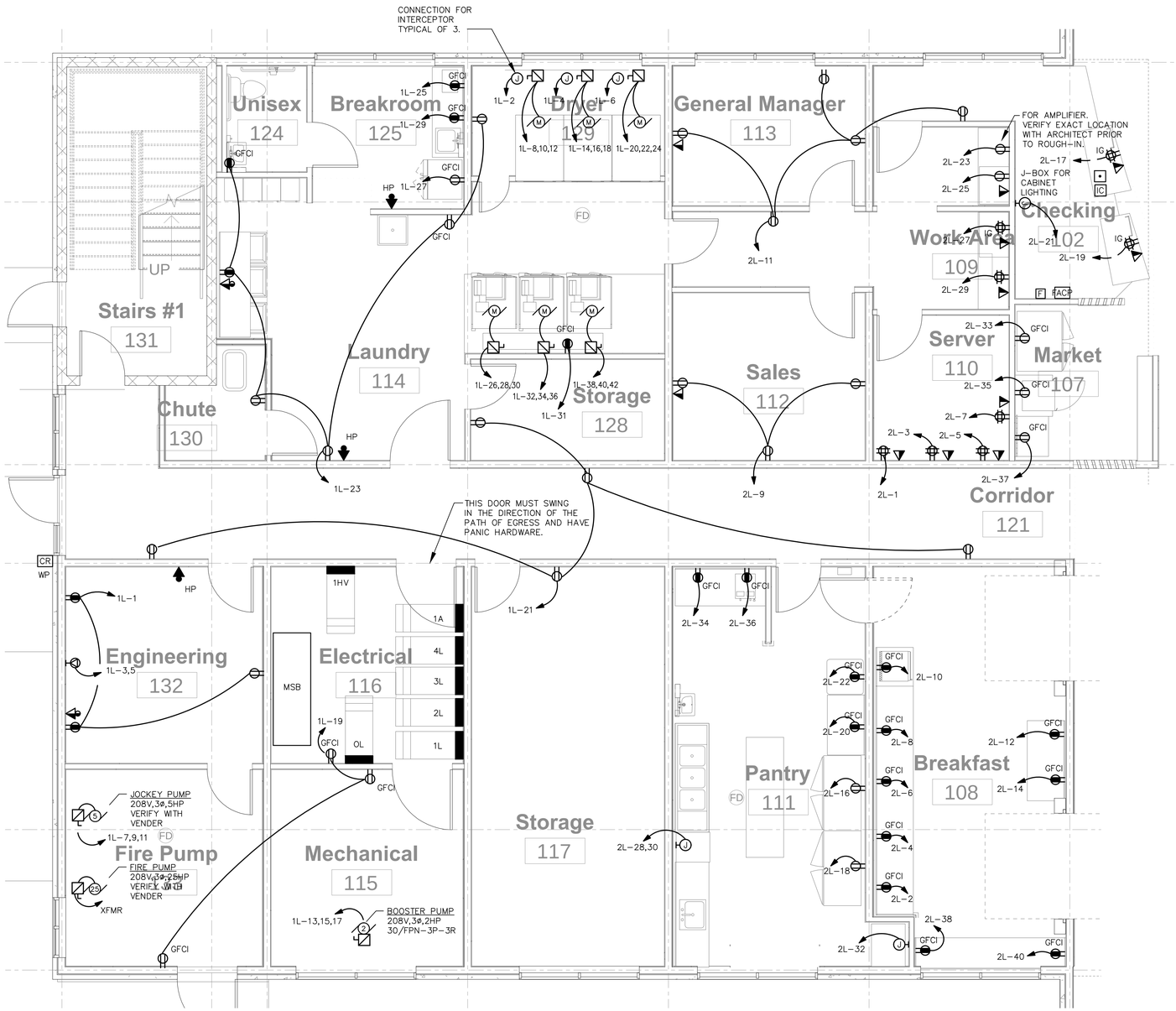

1 E301 ENLARGED PUBLIC AREA PLAN - POWER

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

NOTES:

1. COORDINATE EXACT LAYOUT OF THE EXERCISE ROOM WITH OWNER'S EQUIPMENT VENDOR PRIOR TO PROJECT START UP.
2. ALL 120V, 15 AND 20 AMP RECEPTACLES IN KITCHEN TO HAVE GFCI PROTECTION.
3. COORDINATE ALL FOOD PREP/SERVING EQUIPMENT WITH EQUIPMENT VENDOR. VERIFY ALL POWER REQUIREMENTS PRIOR TO ROUGH-IN.

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REVISIONS		
No.	Date	Description
1		

KEY PLAN

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Drawing Title

ENLARGED PUBLIC AREA PLAN - POWER

Phase
Construction Documents

Project No.	14-081	Sheet No.	E301
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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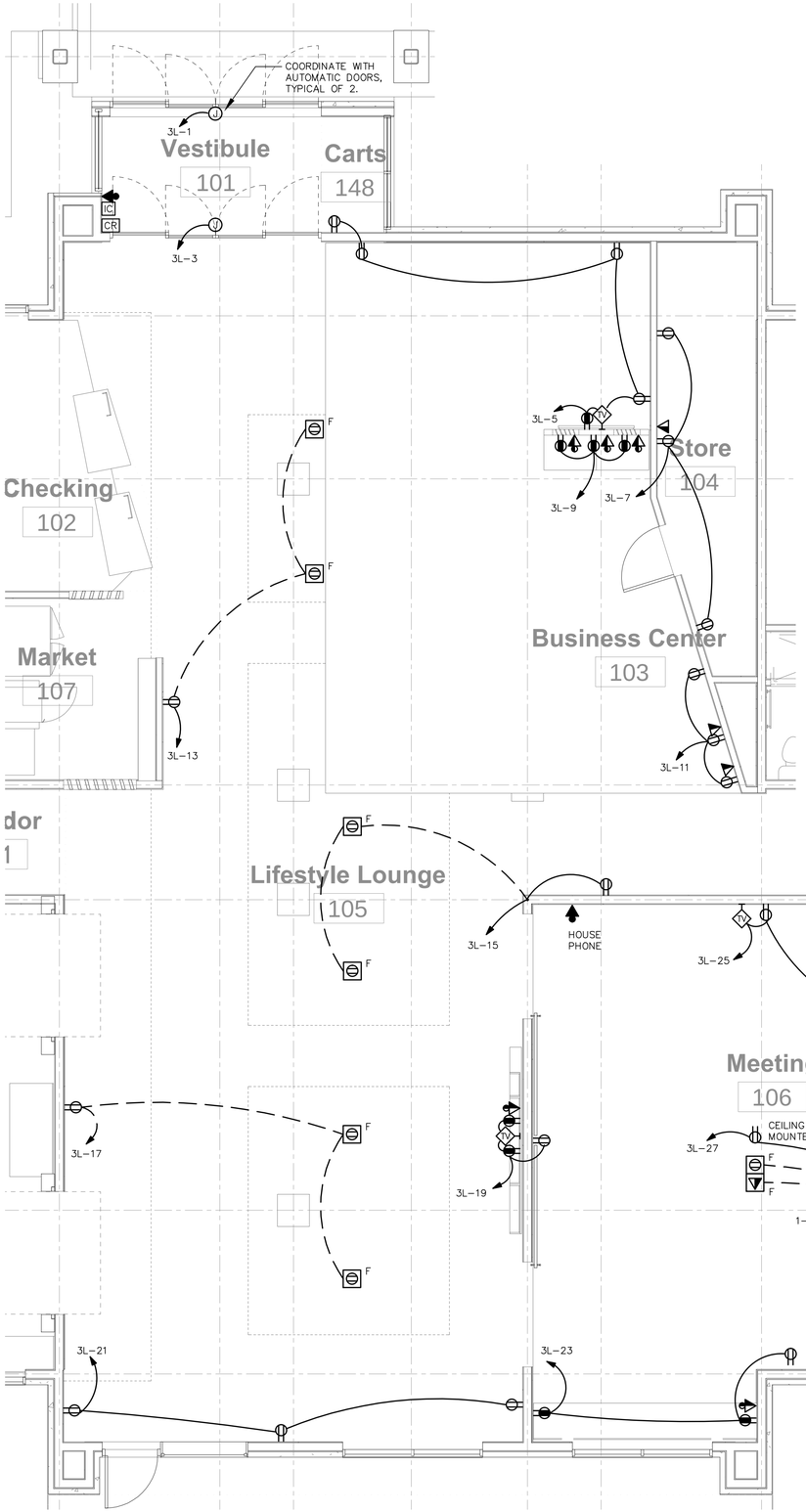
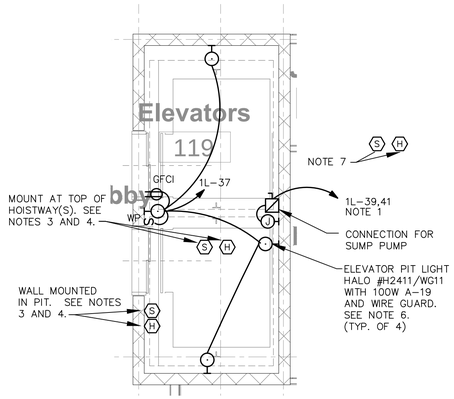


ENLARGED PUBLIC AREA PLAN - POWER

1 / E302 SCALE: 1/4" = 1'-0"

NOTES:

1. COORDINATE EXACT LAYOUT OF THIS ROOM WITH ALL OTHER TRADES PRIOR TO PROJECT START UP. ELECTRICAL CONTRACTOR TO LAY-OUT ALL ELECTRICAL EQUIPMENT LOCATIONS TO MAINTAIN NEC CODE CLEARANCES OF 36". NOTIFY G.C./OWNER IF THE REQUIRED 36" NEC CLEARANCE REQUIREMENT CAN NOT BE MET. ALL COORDINATION TO BE DONE PRIOR TO PROJECT START AND SLAB BEING POURED.
2. FIELD COORDINATE WITH G.C. TO PROVIDE 120V CONNECTION FOR AUTOMATIC DOORS.
3. COORDINATE WITH G.C./OWNER TO PROVIDE (2) CONNECTIONS FOR THE ELECTRIC STRIKE ON THE VESTIBULE DOORS. DOORS TO OPEN UPON RELEASE SWITCH ACTIVATION AT LOBBY DESK OR FIRE ALARM ACTIVATION.
4. PROVIDE RECESSED KNOX BOX WITH BUILDING AND ENCLOSURE KEYS PER LOCAL FIRE DEPARTMENT REQUIREMENTS.



ENLARGED ELEVATOR

2 / E302 SCALE: 1/4" = 1'-0"

NOTES:

1. CONNECTION FOR 208V CIRCUIT FOR SUMP PUMP. COORDINATE WITH PLUMBING DRAWINGS.
2. COORDINATE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR SHOP DRAWINGS.
3. MOUNT SMOKE AND HEAT DETECTORS WITHIN 2'-0" OF SPRINKLER HEADS. SMOKE DETECTORS SHALL, UPON ALARM, RECALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL MAIN ELEVATOR POWER. SEE ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME INDEX (135°F) COMPARED TO THE SPRINKLER HEADS IN THE HOISTWAY.
4. WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.
5. LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR.
6. LIGHTS SHALL NOT BE CONNECTED TO THE LOAD SIDE TERMINALS OF THE CONVENIENCE RECEPTACLE.
7. MOUNT CENTERED IN ELEVATOR MACHINE ROOM.
8. MOUNT IN ELEVATOR LOBBY AT EACH LEVEL WITHIN 15'-0" OF DOOR.
9. THE SMOKE DETECTOR(S) LOCATED IN THE DESIGNATED ELEVATOR RECALL LOBBY(S) SHALL ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE REMAINING ELEVATOR LOBBIES SHALL ACTUATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE HOISTWAY(S) AND ELEVATOR MACHINE ROOM(S) SHALL ACTUATE THE THIRD ELEVATOR CONTROL CIRCUIT, AND WHERE A MACHINE ROOM IS LOCATED AT THE DESIGNATED LEVEL. THAT ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL ALSO ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT.

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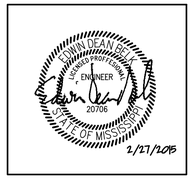

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

ENLARGED PUBLIC AREA PLAN - POWER

Phase
Construction Documents

Project No.	14-081	Sheet No.	E302
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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POOL NOTES

1. ALL ELECTRICAL EQUIPMENT IN POOL AREA SHALL BE BONDED TOGETHER WITH #8 CU. GND. PER N.E.C. #680-22.

2. ALL RECEPTACLES IN POOL AREA WITHIN 10' OF POOL AND IN POOL EQUIPMENT ROOM SHALL BE WEATHERPROOF G.F.C.I. TYPE.

3. ELECTRICAL INSTALLATION IS TO BE IN COMPLIANCE WITH ARTICLE 680 OF THE N.E.C.

4. THE FOLLOWING ITEMS ARE REQUIRED TO BE BONDED WITH INSULATED #8 COPPER WIRE, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
   - A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING STEEL, IN ALL CONCRETE SLABS.
   - B. UNDERWATER LIGHT FIXTURES, INCLUDING FORMING SHELLS, MOUNTING BRACKETS AND JUNCTION BOXES AS REQUIRED.
   - C. HANDRAILS.
   - D. LADDERS.
   - E. PUMP MOTORS, FOR ALL POOLS AND THE SLIDE.
   - F. WINDOW FRAMES, WHERE NOTED.
   - G. LIGHT FIXTURES ABOVE THE POOL OR SPA AND WITHIN 5 FEET HORIZONTALLY OF THE POOL OR SPA WALLS.
   - H. ALL METAL PARTS ASSOCIATED WITH THE SLIDE AND THE SPRAY AREA.
   - I. ANY OTHER METALLIC PARTS REQUIRED BY THE N.E.C.

5. THE FOLLOWING ITEMS ARE REQUIRED TO BE GROUNDED WITH INSULATED #12 COPPER WIRE MINIMUM, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
   - A. UNDERWATER LIGHTING FIXTURES.
   - B. ALL ELECTRIC EQUIPMENT WITHIN 5'-0" OF THE POOL OR SPA.
   - C. ALL ELECTRIC EQUIPMENT ASSOCIATED WITH THE CIRCULATION SYSTEM OF THE POOL OR SPA.
   - D. JUNCTION BOXES.
   - E. TRANSFORMER ENCLOSURES.
   - F. PANELBOARDS SUPPLYING POWER TO ANY EQUIPMENT ASSOCIATED WITH THE POOL OR SPA.
   - G. GROUND FAULT INTERRUPT CIRCUITS.

6. GROUNDING FOR POOL AND SPA LIGHTS AND FOR PUMP MOTORS IS TO BE IN CONDUIT.

7. ALL UNDERWATER LIGHT FIXTURES MUST BE SUBMERGED BEFORE BEING OPERATED.

8. UNDERWATER LIGHT FIXTURES MUST BE REMOVABLE FROM THE WATER FOR RELAMPING OR NORMAL MAINTENANCE WITHOUT REQUIRING DRAINAGE OF THE POOL.

9. NICHE LIGHT FIXTURES SHALL BE SUPPLIED WITH CORDS WHICH ARE 50 FEET LONG, EXCEPT AS NOTED. CONDUIT RUNS FROM EACH NICHE TO THE APPROPRIATE CONNECTION POINT (DECK BOX, SUBMERSIBLE JUNCTION BOX, ETC.) MUST BE AS DIRECT AS POSSIBLE AND A TOTAL LENGTH SHORTER THAN THE CORD WHEN PROPERLY INSTALLED. TO PROPERLY INSTALL FIXTURE AND CORD, LEAVE ENOUGH CORD IN THE NICHE SO THAT WHEN SERVICING IS REQUIRED THE FIXTURE CAN BE LIFTED ABOVE WATER LEVEL WITHOUT DRAINING THE POOL (WRAP EXTRA CORD LENGTH AROUND THE FIXTURE WHEN PLACING IN NICHE).

10. WHEN RESEALING A FIXTURE (SUCH AS AFTER RELAMPING, ETC.) CARE MUST BE TAKEN TO TIGHTEN THE SCREWS OR BOLTS IN SUCH A FASHION AS TO CREATE EQUAL PRESSURE ON THE GASKET ALL THE WAY AROUND THE FIXTURE.

11. ALL THREADED CONNECTIONS MUST BE MADE WITH NATIONAL TAPERED PIPE THREADS (N.P.T.) AND APPROVED THREAD SEALANT.

12. AN APPROVED POTTING COMPOUND (LOW MELTING PARAFFIN OR RTV SILASTIC) MUST BE USED TO FILL THE ENTRY OF THE JUNCTION BOX TO PREVENT MOISTURE MIGRATION INTO THE CONDUIT. AFTER POTTING THE JUNCTION BOX, ATTACH THE COVER PLATE SO THAT IT IS WATERTIGHT.

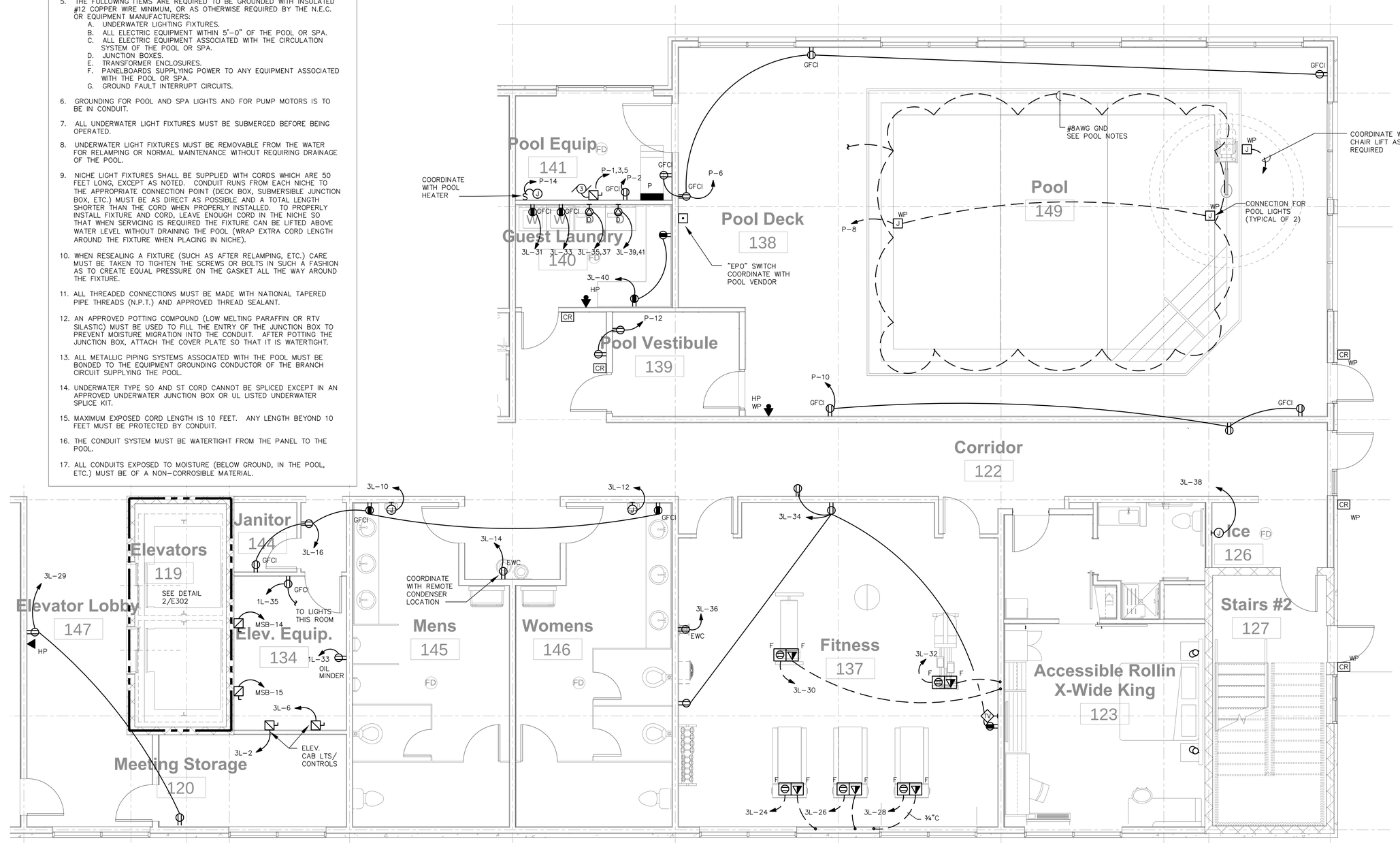
13. ALL METALLIC PIPING SYSTEMS ASSOCIATED WITH THE POOL MUST BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE POOL.

14. UNDERWATER TYPE SO AND ST CORD CANNOT BE SPLICED EXCEPT IN AN APPROVED UNDERWATER JUNCTION BOX OR UL LISTED UNDERWATER SPLICE KIT.

15. MAXIMUM EXPOSED CORD LENGTH IS 10 FEET. ANY LENGTH BEYOND 10 FEET MUST BE PROTECTED BY CONDUIT.

16. THE CONDUIT SYSTEM MUST BE WATERTIGHT FROM THE PANEL TO THE POOL.

17. ALL CONDUITS EXPOSED TO MOISTURE (BELOW GROUND, IN THE POOL, ETC.) MUST BE OF A NON-CORROSIBLE MATERIAL.



1 E303 ENLARGED PUBLIC AREA PLAN - POWER

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

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JOHN DEAN GERK
REGISTERED PROFESSIONAL ENGINEER
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STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

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Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ENLARGED PUBLIC AREA PLAN - POWER

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Project No.	14-081	Sheet No.	E303
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

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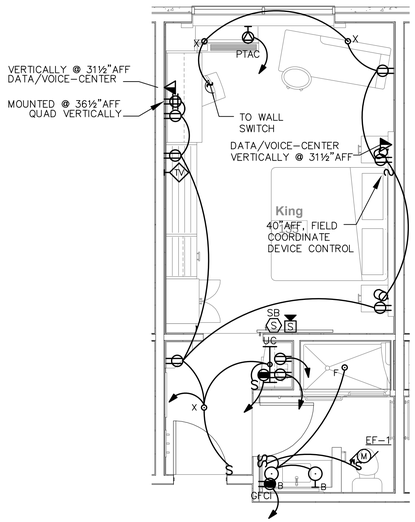
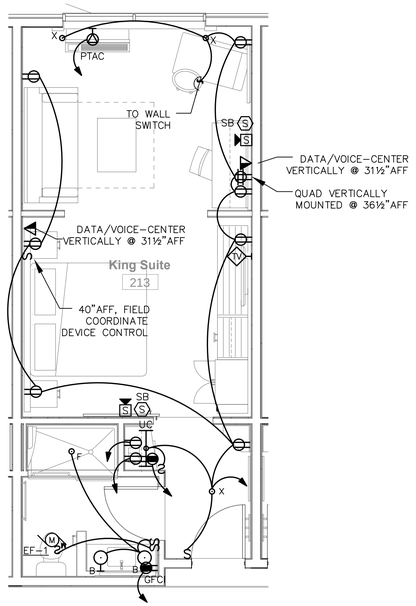
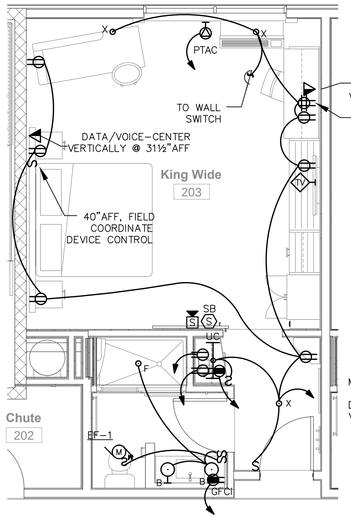


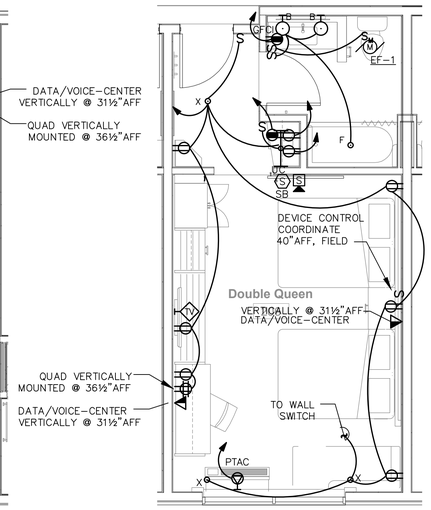
1 E304 **KING UNIT**
SCALE: 1/4" = 1'-0"



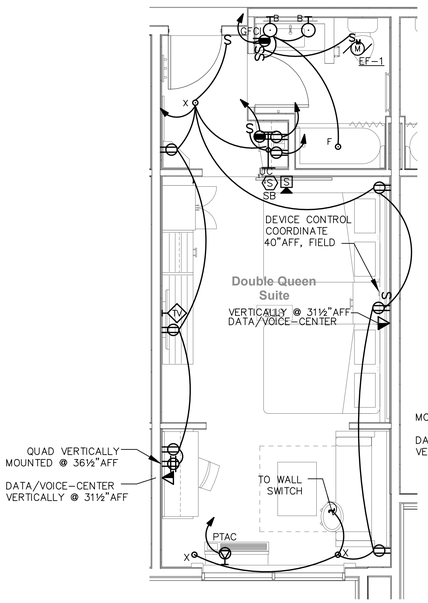
2 E304 **KING SUITE**
SCALE: 1/4" = 1'-0"



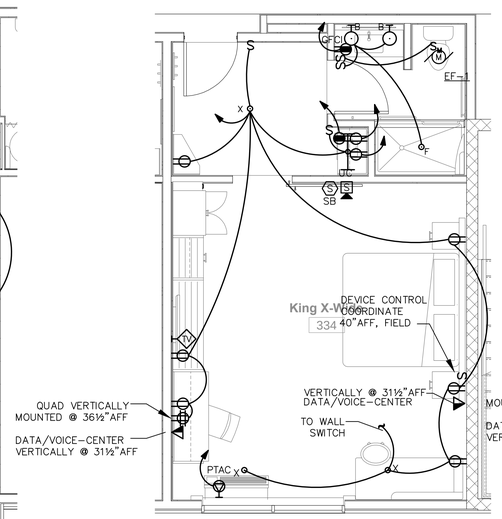
3 E304 **KING WIDE UNIT**
SCALE: 1/4" = 1'-0"



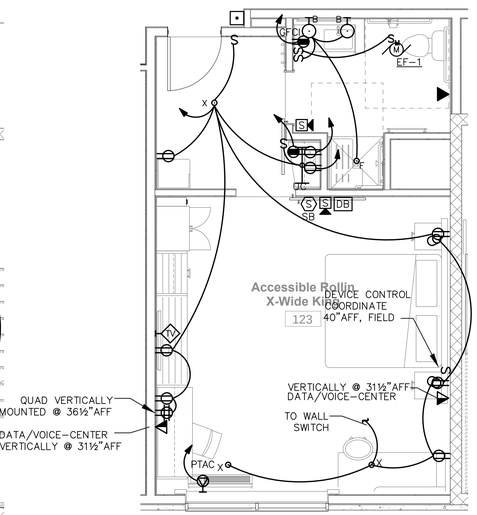
4 E304 **DOUBLE QUEEN UNIT**
SCALE: 1/4" = 1'-0"



5 E304 **DOUBLE QUEEN SUITE**
SCALE: 1/4" = 1'-0"



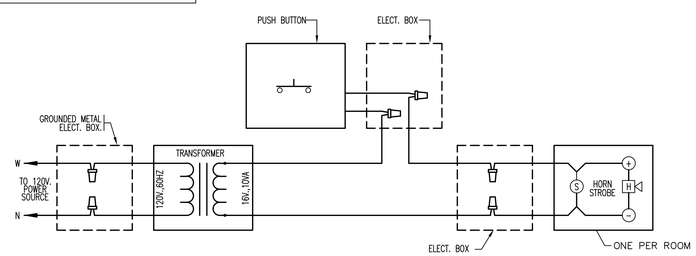
6 E304 **X-WIDE KING UNIT**
SCALE: 1/4" = 1'-0"



7 E304 **ACCESS. X-WIDE KING**
SCALE: 1/4" = 1'-0"

ALL 120 VOLT, 15 AND 20 AMP RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER RESISTANT PER NEC 2011 SECTION 406.13.

ELECTRICAL OUTLET HEIGHTS (U.N.O.)
TYPICAL WALL OUTLET – 12" A.F.F.
TYPICAL ACCESSIBLE WALL OUTLET – 18" A.F.F.
BATHROOM VANITY OUTLET – 48" A.F.F.
GUESTROOM STUDIO WET BAR – 48" A.F.F.
TYPICAL KITCHEN OUTLET – 42" A.F.F.
ACCESSIBLE KITCHEN OUTLET – 46" A.F.F. MAX.
ACCESSIBLE BATHROOM VANITY OUTLET – 44" A.F.F. MAX.



NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF DEVICES. COORDINATE THE LOCATIONS OF DEVICES WITH ARCHITECT

8 E304 **WIRING DIAGRAM OF VISUAL/AUDIBLE NOTIFICATION DEVICES FOR HEARING IMPAIRED AND ACCESSIBLE UNITS (10VA)**
NTS

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GUESTROOM GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES PRIOR TO ELECTRICAL ROUGH-IN.
2. SEE 1/8 SCALE PLANS FOR CIRCUIT NUMBERS. CONTRACTOR SHALL REFER TO PANEL SCHEDULES AND RISER DIAGRAM.
3. AT WALLS BETWEEN ADJACENT ROOMS, ELECTRICAL OUTLET LOCATIONS, INCLUDING TV AND TELEPHONE OUTLETS, SHALL BE OFFSET 6" MIN. HORIZONTALLY FOR INSTALLATION. ELECTRICAL CORDS SHOULD BE HIDDEN FROM VIEW. BACK TO BACK OUTLETS ARE NOT ALLOWED.
4. LIGHT SWITCH AND GFCI OUTLETS CAN BE MOUNTED IN A COMMON BOX WITH COVER PLATE. COORDINATE CLEARANCE WITH MIRROR.
5. HEIGHT OF ALL SWITCHES, OUTLETS, ETC., TO MEET ACCESSIBILITY STANDARDS FOR MAXIMUM AND MINIMUM REACH RANGE. FEDERAL AND LOCAL CODES APPLY AND THE MOST STRINGENT STANDARD PREVAILS. SWITCHES ON LAMPS MUST BE TOGGLE TYPE.
6. ELECTRICAL OUTLETS AT DESKS ARE TO BE COORDINATED WITH FRANCHISE STANDARDS. DEPENDING ON FF&E PROVIDED, CERTAIN OUTLETS MAY NOT BE REQUIRED.
7. CEILING MOUNTED LIGHT FIXTURE AND EXHAUST FAN AT ALL GUESTROOM BATHROOMS TO BE SWITCHED SEPARATELY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ELECTRICAL ROUGH-IN.
8. HEARING IMPAIRED ROOMS SHALL BE EQUIPPED WITH ACCESSIBLE DEVICES SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: FIRE ALARM STROBES, SMOKE DETECTOR STROBES AND DOOR BUZZER STROBES, TELEPHONES WITH VOLUME CONTROLS COMPATIBLE WITH THE PHONE SYSTEM. ALSO PROVIDE DOORBELL ON/OFF SWITCH WITH SIGNAGE AS REQUIRED.
9. AT ALL ADA AND HEARING IMPAIRED ROOMS:
   - A. 177CD FIRE ALARM HORN/STROBE IN ROOM.
   - B. FIRE ALARM STROBE IN BATH ROOM.
   - C. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
10. ALL NON-ADA GUESTROOMS:
    - A. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
    - B. MINI-HORN ON WALL.
11. ALL GUESTROOMS SHALL HAVE 70DBA MINIMUM AT PILLOW.
12. PTAC - PREFERRED MANUFACTURERS AS REFERENCED IN BRANDS STANDARDS MANUAL OR APPROVED EQUAL MUST BE PROVIDED.
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REVISIONS		
No.	Date	Description
1		

JOHN DEAN GERK
REGISTERED PROFESSIONAL
ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

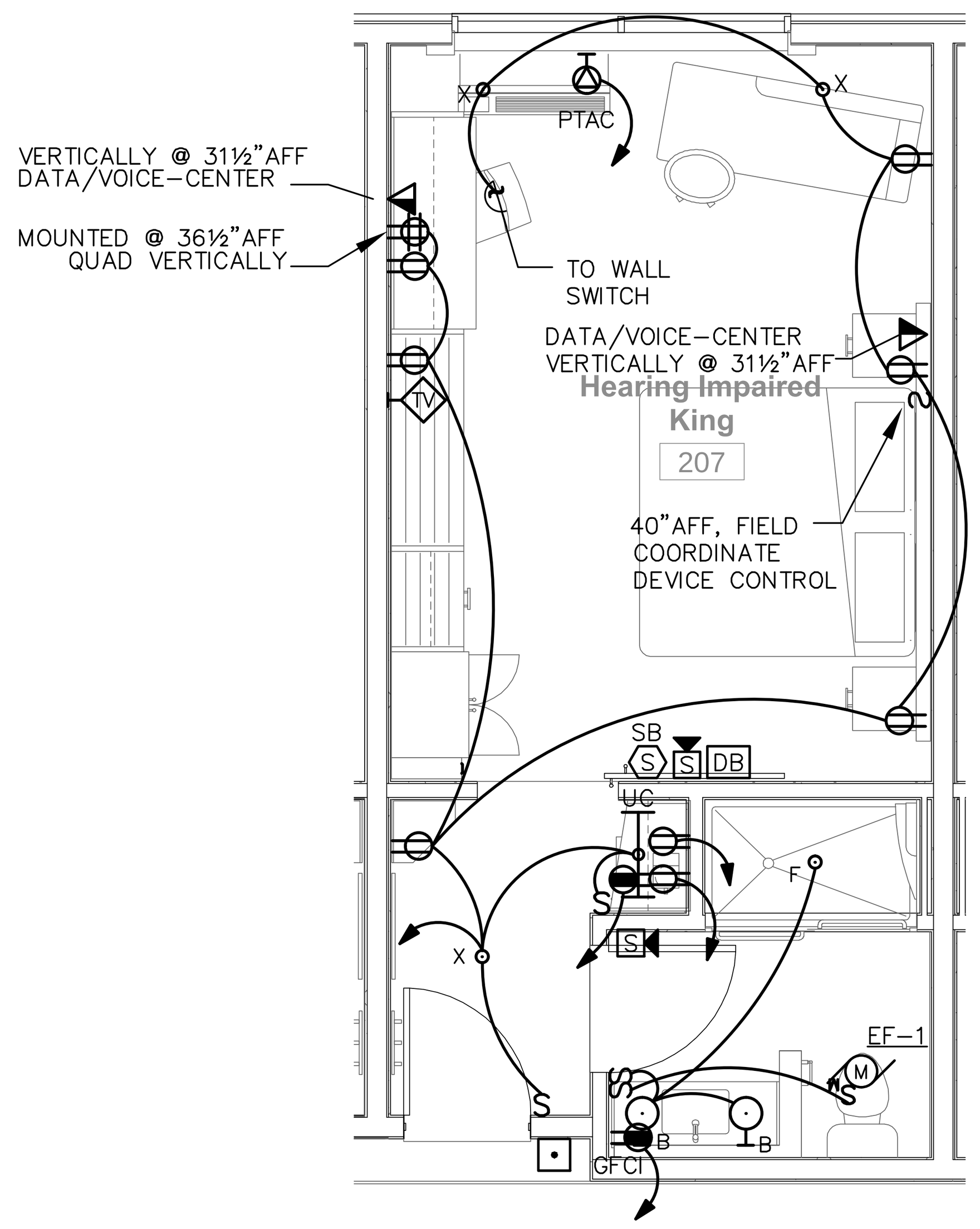
Drawing Title

ENLARGED GUESTROOM PLANS

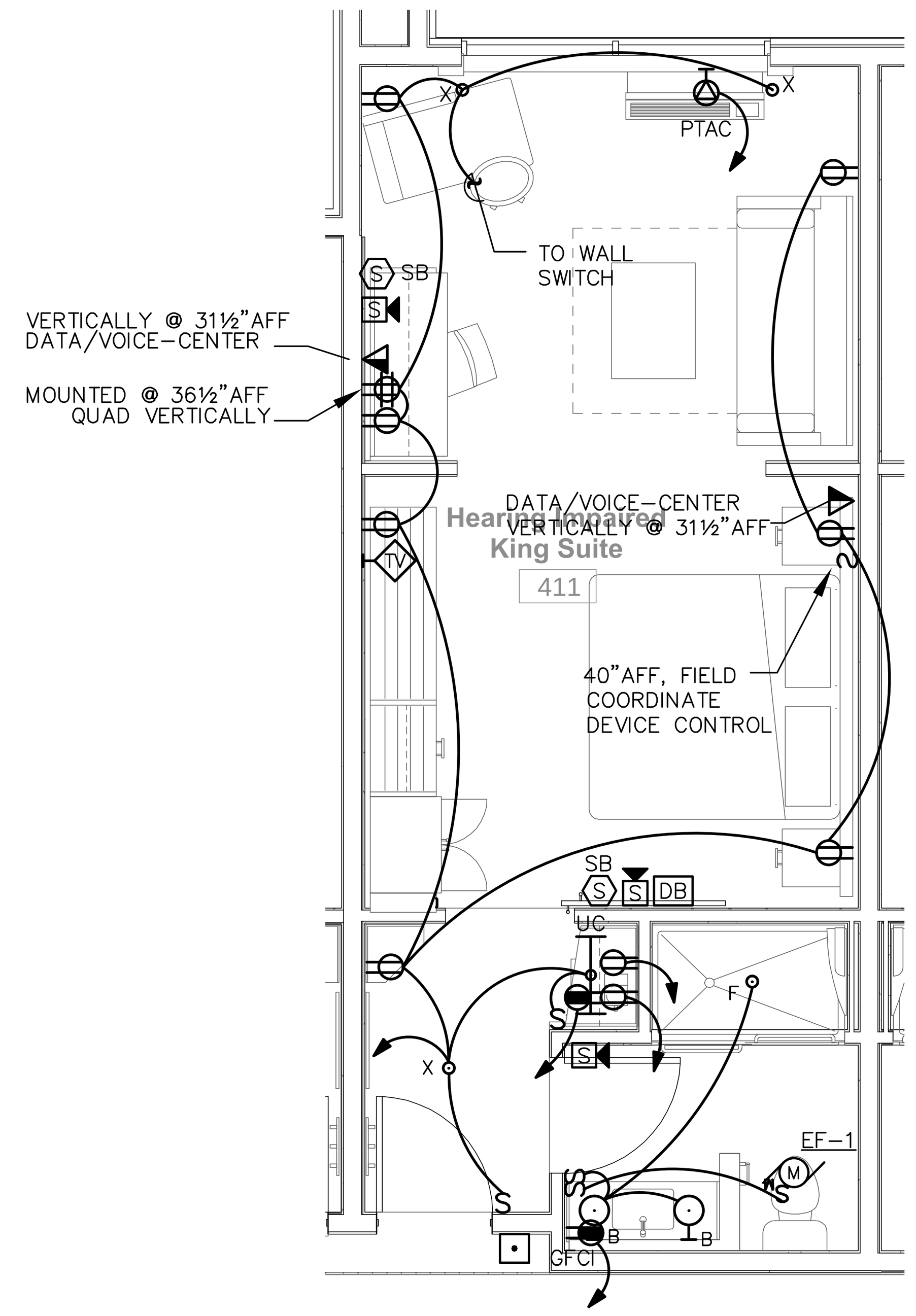
Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E304
Checked by	EDB	
Date	Feb. 27, 2015	

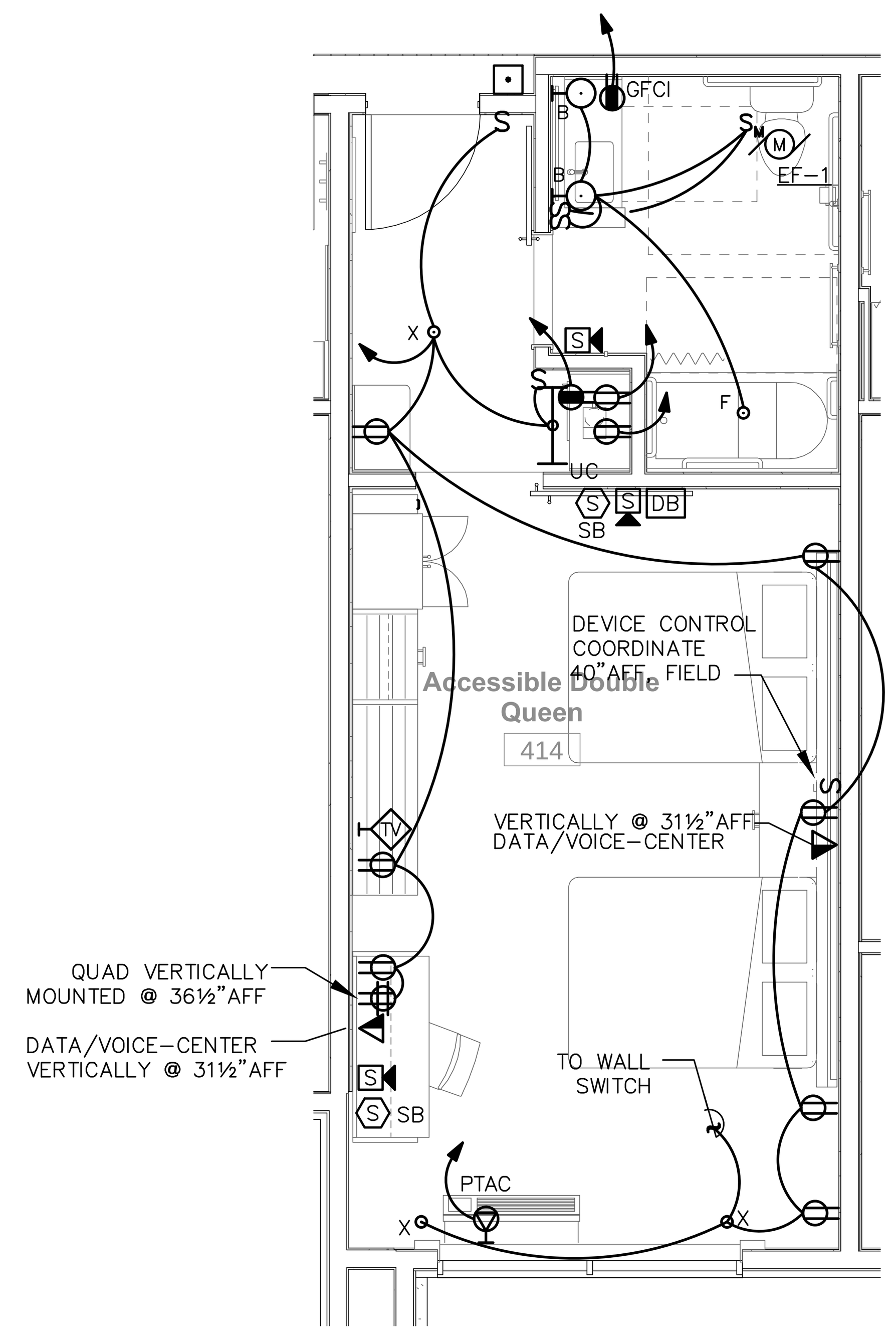
Holiday Inn Express & Suites



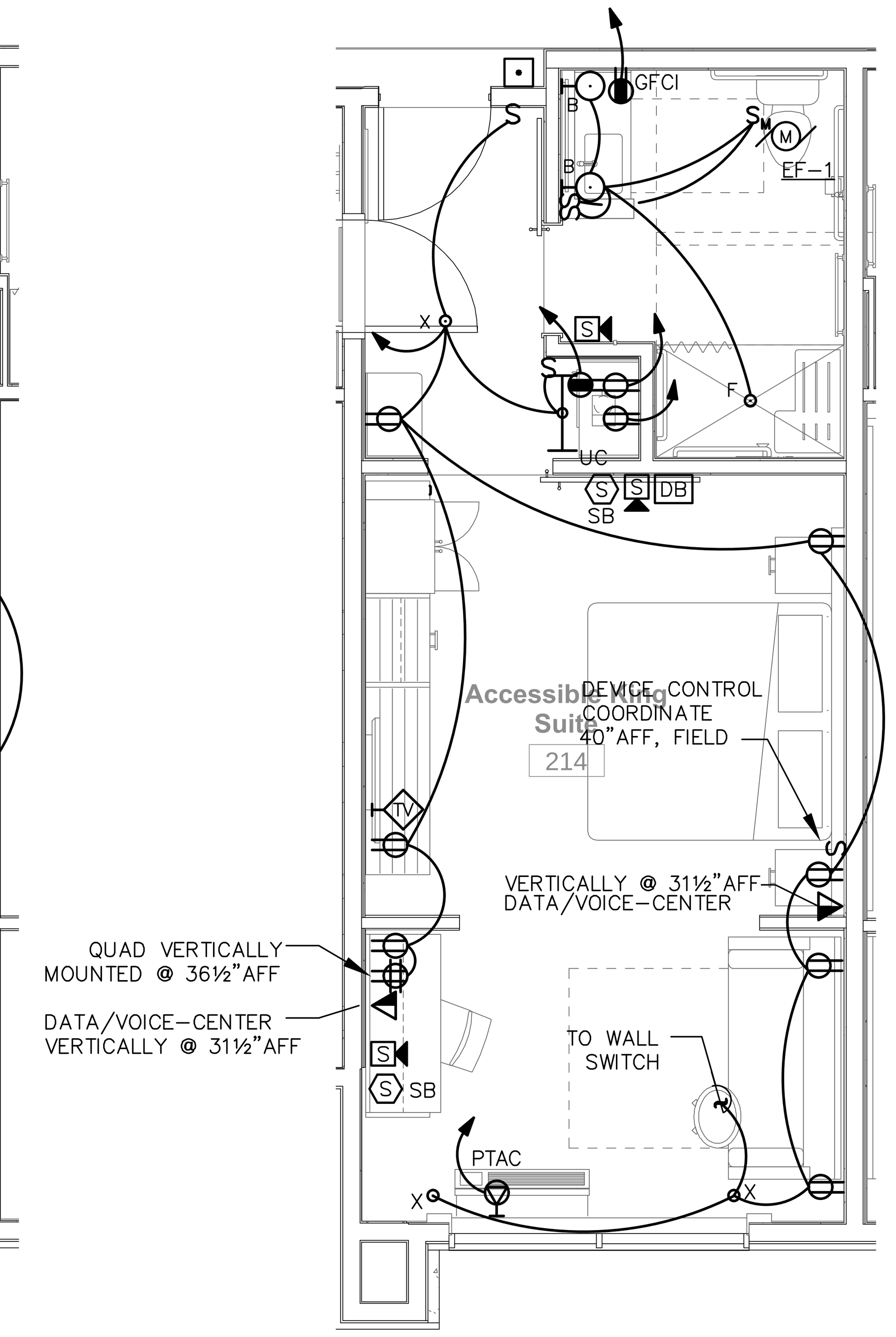
1 E305 **H.I. KING UNIT**
SCALE: 1/4" = 1'-0"



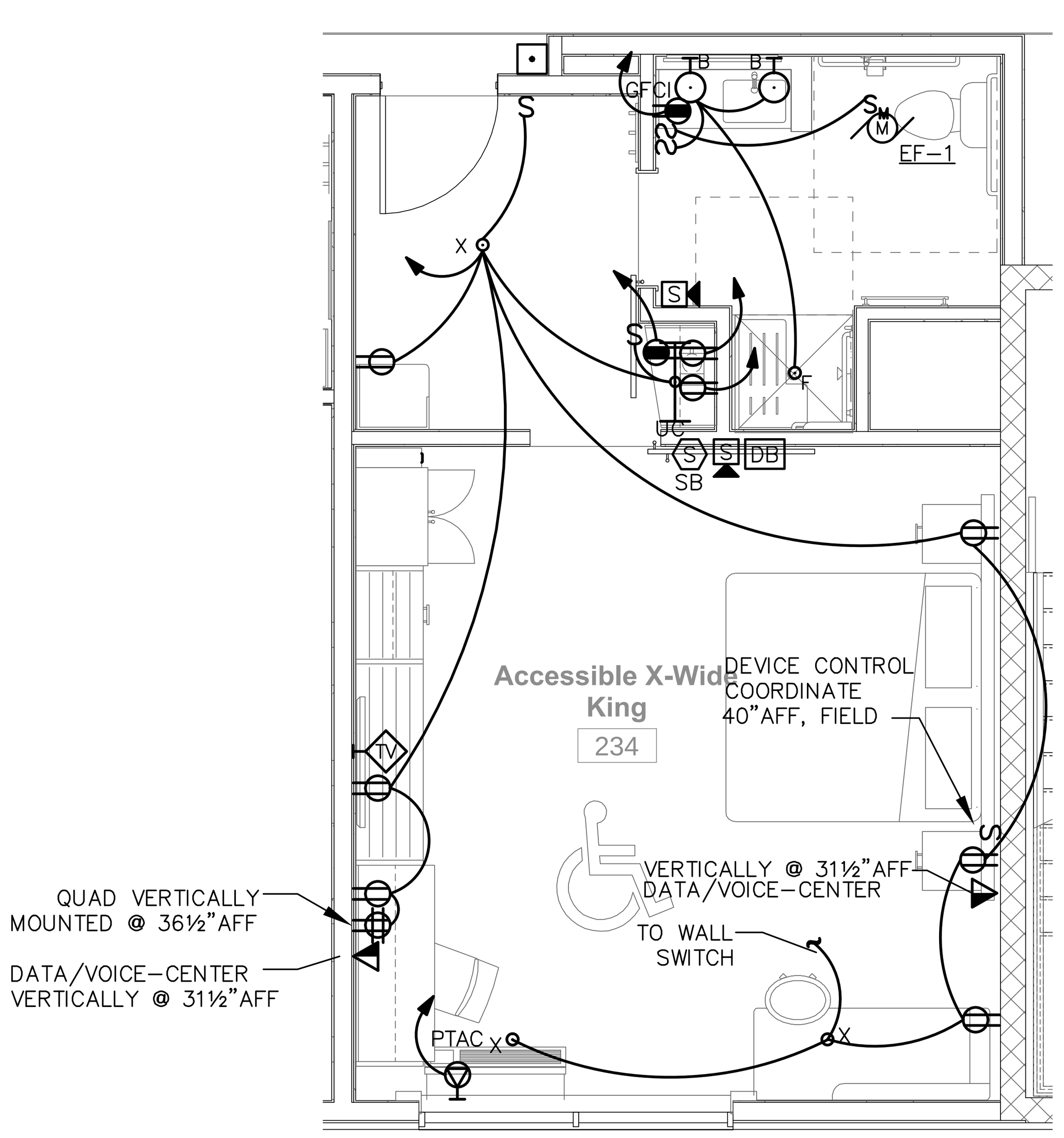
2 E305 **H.I. KING SUITE**
SCALE: 1/4" = 1'-0"



3 E305 **ACCESS. QUEEN SUITE**
SCALE: 1/4" = 1'-0"



4 E305 **ACCESS. KING SUITE**
SCALE: 1/4" = 1'-0"



4 E305 **ACCESS. X-WIDE KING**
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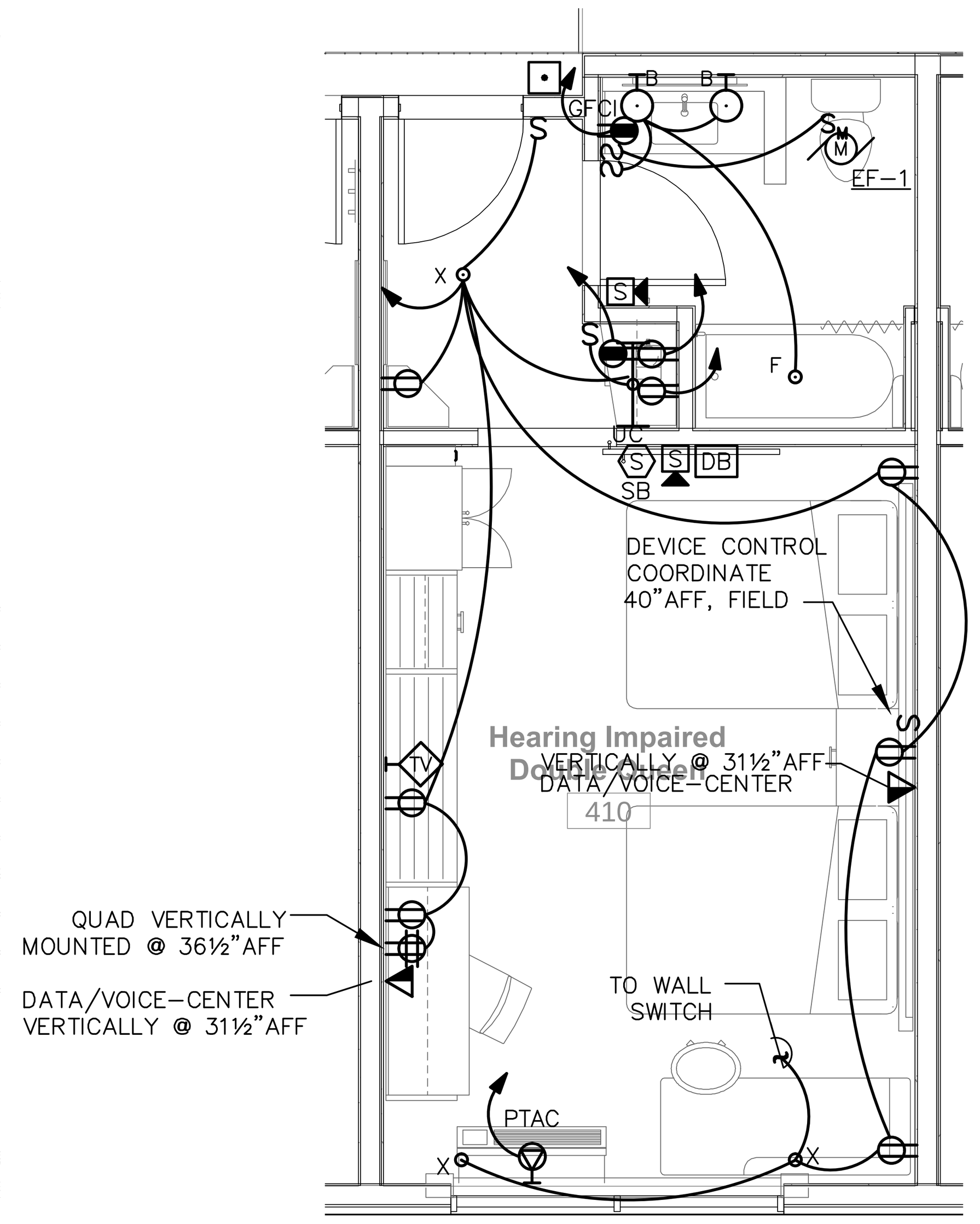
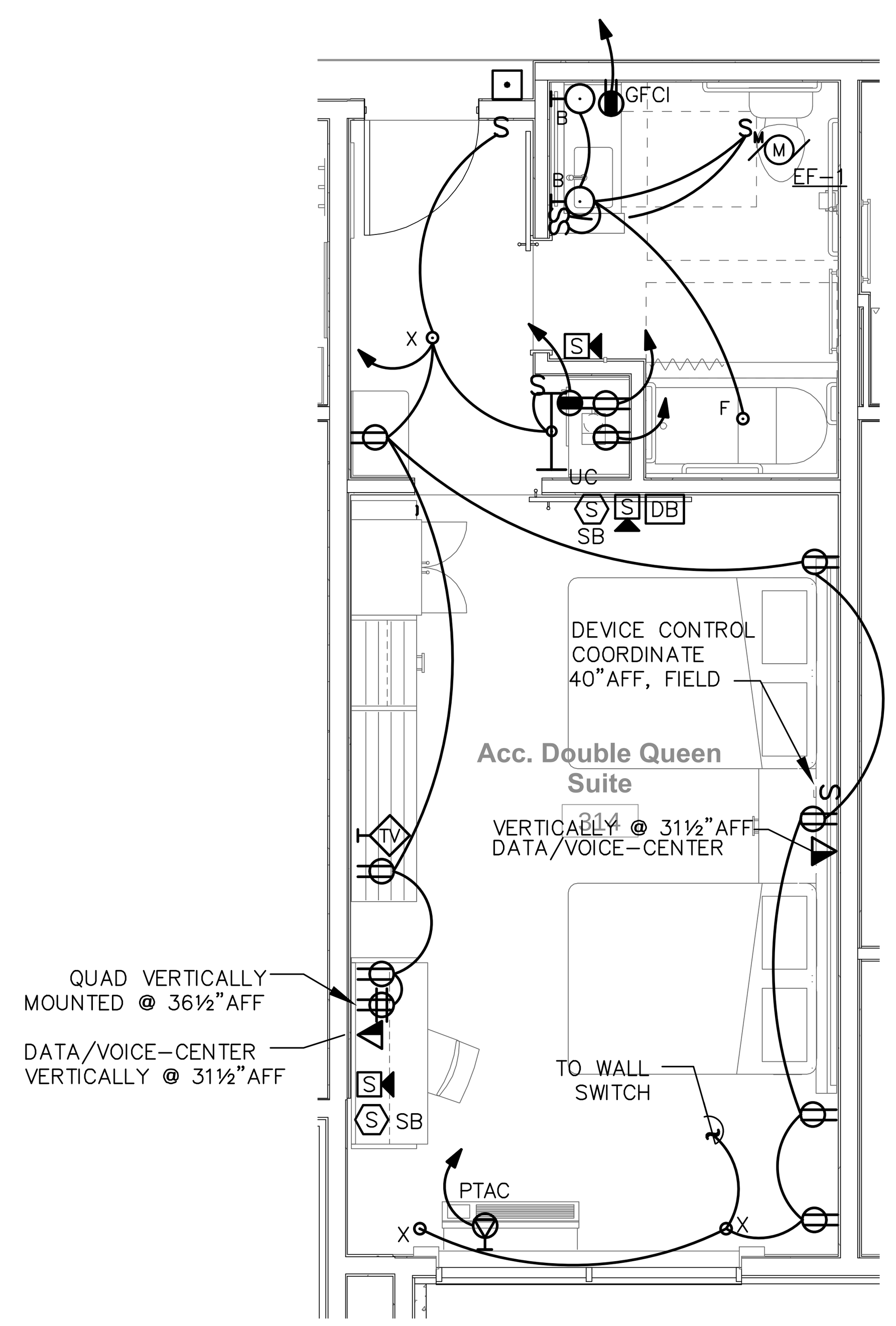


5 E305 **H.I. DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



7 E305 **ACCESS. DOUBLE QUEEN SUITE**
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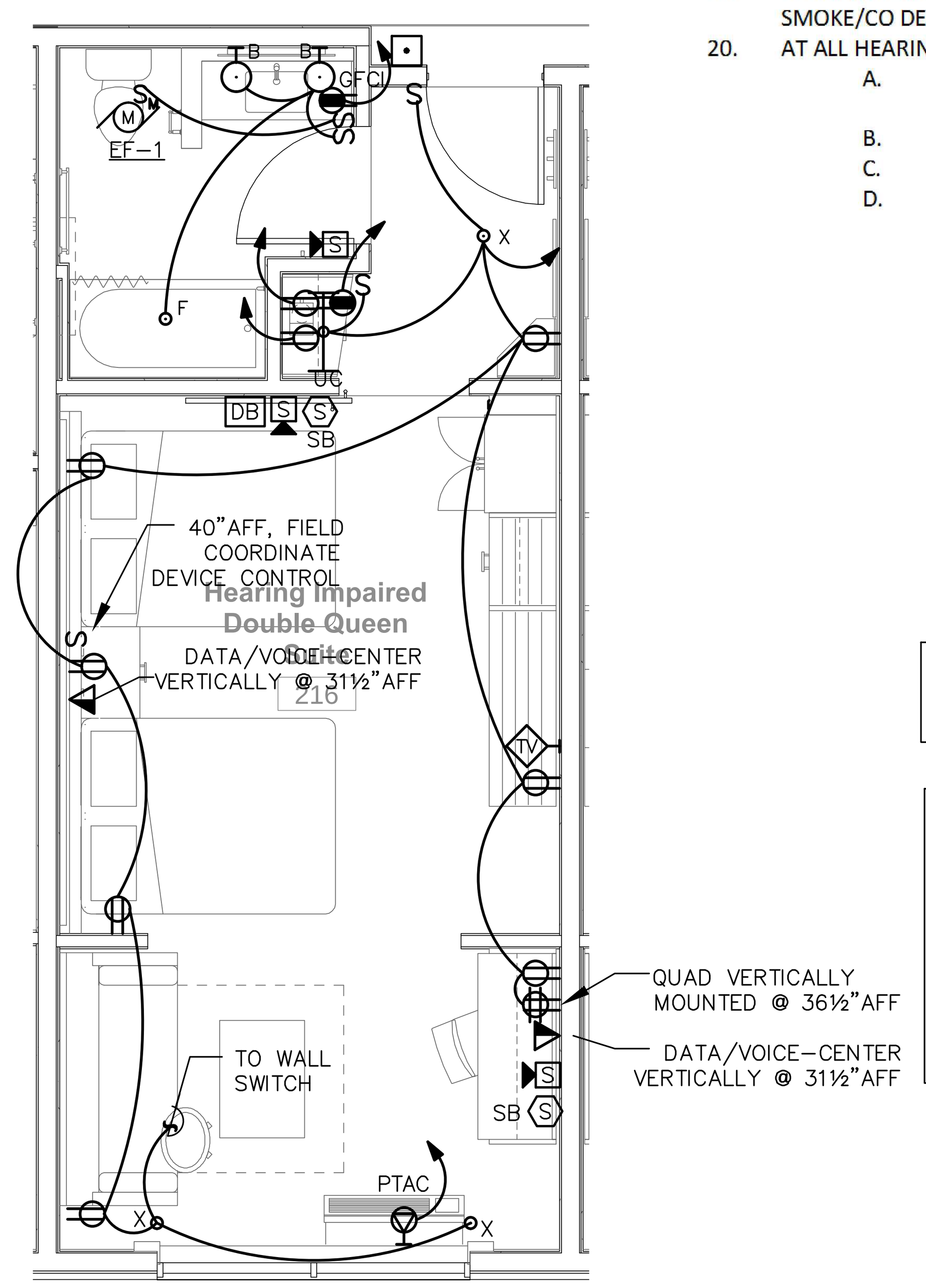

8 E305 **H.I. DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"

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GUESTROOM GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES PRIOR TO ELECTRICAL ROUGH-IN.
2. SEE 1/8 SCALE PLANS FOR CIRCUIT NUMBERS. CONTRACTOR SHALL REFER TO PANEL SCHEDULES AND RISER DIAGRAM.
3. AT WALLS BETWEEN ADJACENT ROOMS, ELECTRICAL OUTLET LOCATIONS, INCLUDING TV AND TELEPHONE OUTLETS, SHALL BE OFFSET 6" MIN. HORIZONTALLY FOR INSTALLATION. ELECTRICAL CORDS SHOULD BE HIDDEN FROM VIEW. BACK TO BACK OUTLETS ARE NOT ALLOWED.
4. LIGHT SWITCH AND GFCI OUTLETS CAN BE MOUNTED IN A COMMON BOX WITH COVER PLATE. COORDINATE CLEARANCE WITH MIRROR.
5. HEIGHT OF ALL SWITCHES, OUTLETS, ETC., TO MEET ACCESSIBILITY STANDARDS FOR MAXIMUM AND MINIMUM REACH RANGE. FEDERAL AND LOCAL CODES APPLY AND THE MOST STRINGENT STANDARD PREVAILS. SWITCHES ON LAMPS MUST BE TOGGLE TYPE.
6. ELECTRICAL OUTLETS AT DESKS ARE TO BE COORDINATED WITH FRANCHISE STANDARDS. DEPENDING ON FF&E PROVIDED, CERTAIN OUTLETS MAY NOT BE REQUIRED.
7. CEILING MOUNTED LIGHT FIXTURE AND EXHAUST FAN AT ALL GUESTROOM BATHROOMS TO BE SWITCHED SEPARATELY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ELECTRICAL ROUGH-IN.
8. HEARING IMPAIRED ROOMS SHALL BE EQUIPPED WITH ACCESSIBLE DEVICES SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: FIRE ALARM STROBES, SMOKE DETECTOR STROBES AND DOOR BUZZER STROBES, TELEPHONES WITH VOLUME CONTROLS COMPATIBLE WITH THE PHONE SYSTEM. ALSO PROVIDE DOORBELL ON/OFF SWITCH WITH SIGNAGE AS REQUIRED.
9. AT ALL ADA AND HEARING IMPAIRED ROOMS:
   - A. 177CD FIRE ALARM HORN/STROBE IN ROOM.
   - B. FIRE ALARM STROBE IN BATH ROOM.
   - C. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
10. ALL NON-ADA GUESTROOMS:
    - A. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
    - B. MINI-HORN ON WALL.
11. ALL GUESTROOMS SHALL HAVE 70DBA MINIMUM AT PILLOW.
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ALL 120 VOLT, 15 AND 20 AMP RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER RESISTANT PER NEC 2011 SECTION 406.13.

ELECTRICAL OUTLET HEIGHTS (U.N.O.)
TYPICAL WALL OUTLET – 12" A.F.F.
TYPICAL ACCESSIBLE WALL OUTLET – 18" A.F.F.
BATHROOM VANITY OUTLET – 48" A.F.F.
GUESTROOM STUDIO WET BAR – 48" A.F.F.
TYPICAL KITCHEN OUTLET – 42" A.F.F.
ACCESSIBLE KITCHEN OUTLET – 46" A.F.F. MAX.
ACCESSIBLE BATHROOM VANITY OUTLET – 44" A.F.F. MAX.

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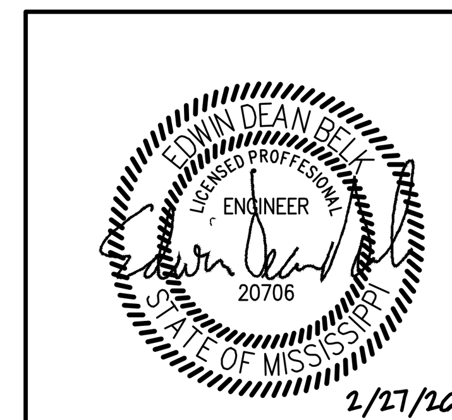

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ENLARGED GUESTROOM PLANS

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Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E305
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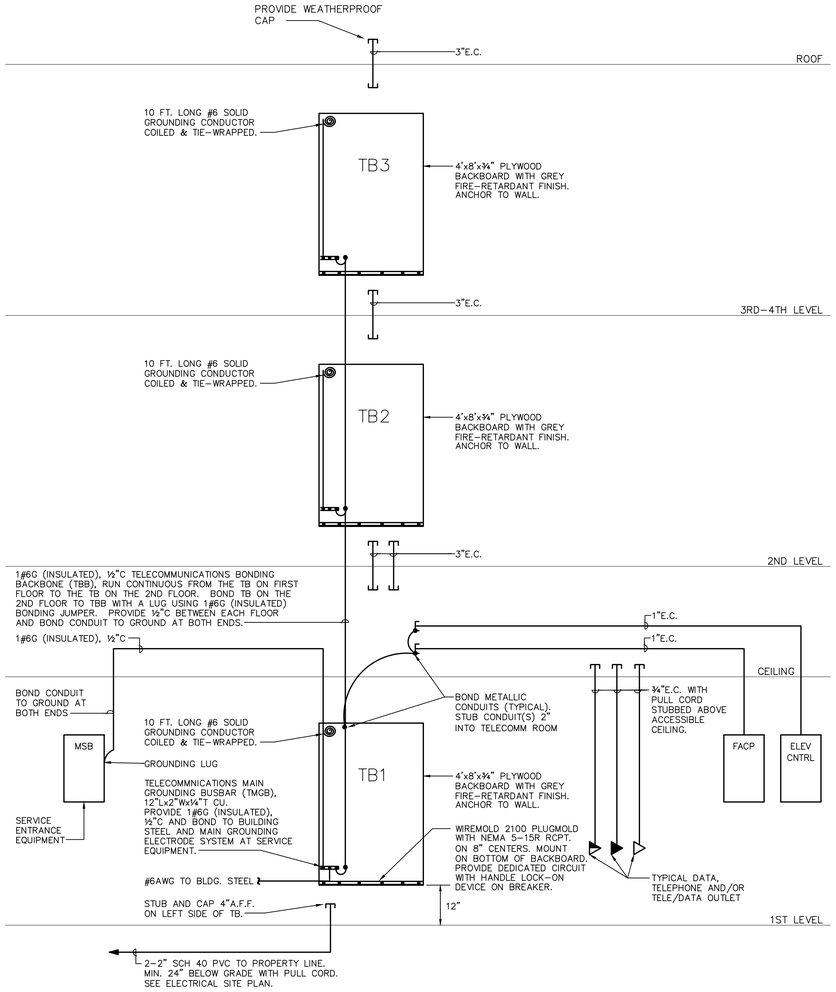
Holiday Inn Express & Suites



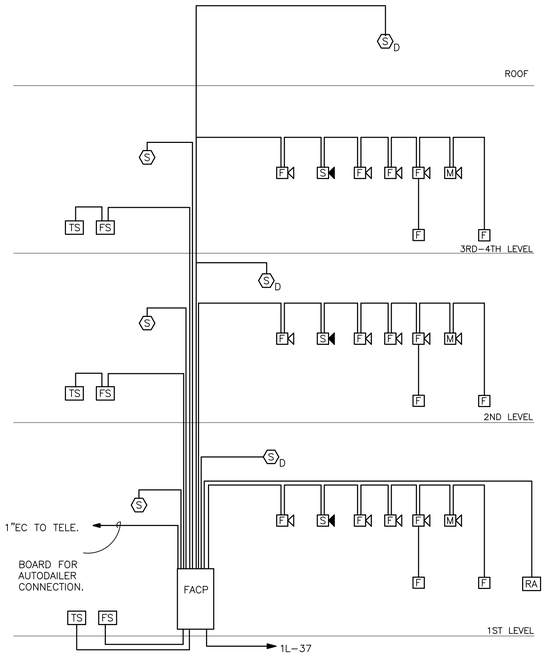
TELE/DATA RISER DIAGRAM NOTES:
1. FLOOR PLANS INDICATE THE EXACT QUANTITY AND LOCATION OF ALL TELEPHONE AND/OR DATA OUTLETS.
2. ALL TELEPHONE AND/OR DATA WIRING AND EQUIPMENT SHALL BE PROVIDED BY THE OWNER'S TELE/DATA SUPPLIER.

2 E401 TELEPHONE RISER DIAGRAM
NO SCALE

FIRE ALARM SEQUENCE

SEQUENCE OF OPERATIONS — ALARM SOURCE AND TYPE	BUILDING SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EXACTUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORN STROBE	TRANSMIT F.A. SIGNAL TO CENTRAL COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL COMM.	TRANSMIT TROUBLE SIGNAL TO CENTRAL COMM.	CENTRAL COMM.: SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
1. MANUAL PULL STATION ALARM	■	■					■	■	■	■			■	■	■		
2. BUILDING SMOKE DETECTOR	■	■					■	■	■	■			■	■	■		
3. DUCT DETECTOR ALARM			■	■			■				■		■	■		■	
4. SMOKE DETECTOR DIRTY/MALFUNCTION – ALL					■	■	■					■	■	■	■		■
5. SPRINKLER WATERFLOW	■	■					■	■	■	■			■	■	■		
6. SPRINKLER TAMPER			■	■			■				■		■	■		■	
7. FIRE ALARM AC POWER FAILURE					■	■	■					■	■	■	■		■
8. FIRE ALARM SYSTEM LOW BATTERY					■	■	■					■	■	■	■		■
9. OPEN CIRCUIT					■	■	■					■	■	■	■		■
10. GROUND FAULT					■	■	■					■	■	■	■		■
11. NOTIFICATION APPLIANCE CIRCUIT SHORT					■	■	■					■	■	■	■		■
12. SYSTEM RESET	(SEE NOTES 1 AND 2 BELOW FOR ACTIONS)																

NOTES:
1. 'SYSTEM RESET' SHALL CLEAR ALL DETECTOR AND MANUAL ALARM SIGNALS, STOP AND RESET THE PRE-DISCHARGE COUNTDOWN, AND STOP TRANSMISSION OF ALL ALARM SIGNALS TO THE MAIN PANEL
2. SYSTEM SHALL BE PROGRAMMED SUCH THAT THE SYSTEM CAN BE RESET WHILE THE MANUAL ABORT BUTTON IS ACTIVATED.
3. SYSTEM SHALL HAVE A 3 BEAT TEMPORAL SOUND PATTERN.



1 E401 FIRE ALARM RISER DIAGRAM
NO SCALE

FIRE ALARM RISER NOTES:
1. FACP SHALL HAVE A MINIMUM 24HR. BATTERY BACKUP.
2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
3. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.
4. SEE PLANS FOR EXACT DEVICE QUANTITY AND LOCATIONS.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE ANNUNCIATOR AS DIRECTED BY LOCAL OFFICIAL
7. ALL FIRE ALARM WIRING SHALL BE PLENUM-RATED.
8. FIRE ALARM DEVICES IN GUEST ROOMS SHALL COMPLY WITH I.B.C. 907.9.1.2 AND NFPA 72.
9. PROVIDE ELEVATOR RECALL

HVAC EQUIPMENT - ELECTRICAL

MARK	SUPPLY FAN HP OR WATTS	ELECTRICAL DATA VOLTAGE	HEAT KW	MCA	MAX FUSE	DISCONNECT
PDU-1		208/3	12.5	71.0	80	100/F80-3P-4X
PDCU-1		208/3		7.0	15	30/F15-3P-3R
SSI-1		208/1		1.0	15	30/F15-2P
SSO-1		208/1		14.0	15	30/F15-2P-3R
SSI-2		208/1		1.0	15	30/F15-2P
SSO-2		208/1		14.0	15	30/F15-2P-3R
SSI-3		208/1		1.0	15	30/F15-2P
SSO-3		208/1		14.0	15	30/F15-2P-3R
AH-1		208/1	7.7	38.0	40	60/F40-2P
AH-2		208/1	4.8	24.0	25	30/F25-2P
AH-3		208/1	9.6	53.0	60	60/F60-2P
AH-4		208/1	4.8	24.0	25	30/F25-2P
AH-5		208/1	7.7	38.0	40	60/F40-2P
AH-6		208/1	7.7	38.0	40	60/F40-2P
AH-7		208/1	7.7	38.0	40	60/F40-2P
AH-8		208/1	7.7	38.0	40	60/F40-2P
HP-1		208/1		26.0	45	60/F45-2P-3R
HP-2		208/1		9.0	15	30/F15-2P-3R
HP-3		208/1		34.0	60	60/F60-2P-3R
HP-4		208/1		9.0	15	30/F15-2P-3R
HP-5		208/1		15.0	25	30/25-2P-3R
HP-6		208/1		18.0	30	30/F30-2P-3R
HP-7		208/1		26.0	45	60/45-2P-3R
HP-8		208/1		15.0	25	30/F25-2P-3R
EF-1	45W	120/1				WALL SWITCH
EF-2	150W	120/1				S_{M}
EF-3	100W	120/1				WALL SWITCH
EF-4	100W	120/1				S_{M}
EF-5	150W	120/1				SWITCH WITH LIGHTS
EF-6	83W	120/1				S_{M}
EF-7	108W	120/1			S_{M}	SWITCH
EF-8	100W	120/1			S_{M}	INTERLOCKW/AH-1
EF-9	108W	120/1			S_{M}	INTERLOCKW/AH-4
EF-10	45W	120/1				S_{M}
EF-11	350W	120/1				S_{M}
EF-12	100W	120/1	1			SWITCH WITH LIGHTS
EWH-1		120/1	1			SWITCH
PTAC-A		208/1	2.1	14.1	15	30/15-2P (VERIFY)
MUA-1		208/3		51	60	60/F60-3P-3R

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TOWN DEAN BELL REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 2/27/2015

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TELEPHONE & FIRE ALARM RISER DIAGRAMS

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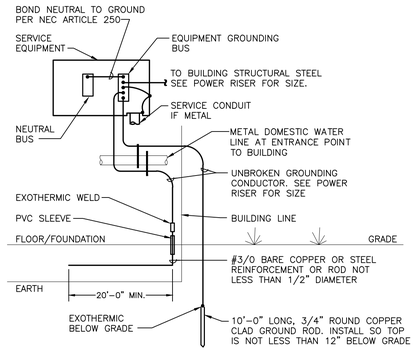
Holiday Inn Express & Suites

CU FEEDER SCHEDULE / AL FEEDERS

STD. FUSE OR C/B TRIP SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN – DRY TYPE THWN – WET	MINIMUM CONDUIT SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN – DRY TYPE THWN – WET	MINIMUM CONDUIT SIZE
30	1	4 #10, #10 G	1/2"	N/A	N/A	N/A
35	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
40	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
45	1	4 #6, #10 G	1"	N/A	N/A	N/A
50	1	4 #6, #10 G	1"	N/A	N/A	N/A
60A	1	3 #6, #10 G	1"	N/A	#2, #2, #2 W/ #4 G SER	N/A
60	1	4 #6, #10 G	1"	N/A	N/A	N/A
70	1	4 #4, #8 G	1 1/4"	N/A	N/A	N/A
80	1	4 #3, #8 G	1 1/4"	N/A	N/A	N/A
90	1	4 #2, #8 G	1 1/4"	N/A	N/A	N/A
100A	1	3 #1, #8 G	1 1/4"	1	1/0, 1/0, 1/0 W/ #2 G SER	N/A
100	1	4 #3, #8 G	1 1/4"	1	4 #1, #6 G	2"
110	1	4 #1, #6 G	1 1/2"	1	4 #1/0, #4 G	2"
125	1	4 #1, #6 G	1 1/2"	1	4 #2/0, #4 G	2"
150	1	4 #1/0, #6 G	2"	1	4 #3/0, #4 G	2 1/2"
175	1	4 #2/0, #6 G	2"	1	4 #4/0, #4 G	2 1/2"
200	1	4 #3/0, #6 G	2"	1	4 –250KCMIL, #4 G	3"
225	1	4 #4/0, #4 G	2 1/2"	1	4 –300KCMIL, #2 G	3"
250	1	4 – 250KCMIL, #4 G	2 1/2"	1	4 – 350KCMIL, #2 G	3"
300	1	4 – 350KCMIL, #4 G	2 1/2"	1	4 – 500KCMIL, #2 G	3 1/2"
350	2	4 #2/0, #3 G	2"	1	4 – 750KCMIL, #1 G	5"
400	2	4 – #3/0, #3 G	2 1/2"	2	4 – 250KCMIL, #1 G	3"
450	2	4 #4/0, #2 G	2 1/2"	2	4 – 300KCMIL, #1/0 G	3"
500	2	4 – 250KCMIL, #2 G	2 1/2"	2	4 – 350KCMIL, #1/0 G	3"
600	2	4 – 350KCMIL, #1 G	3"	2	4 – 500KCMIL, #2/0 G	3 1/2"
700	2	4 – 500KCMIL, #1/0 G	3"	2	4 – 700KCMIL, #3/0 G	4"
800	3	4 – 300KCMIL, #1/0 G	3"	3	4 – 400KCMIL, #3/0 G	3 1/2"
1000	3	4 – 400KCMIL, #2/0 G	3"	3	4 – 600KCMIL, #4/0 G	4"
1200	4	4 – 350KCMIL, #3/0 G	3"	4	4 – 500KCMIL, 250KCMIL G	3 1/2"
3000	8	4 – 600KCMIL, 500KCMIL G	4"	10	4 – 750KCMIL, 800KCMIL G	5"

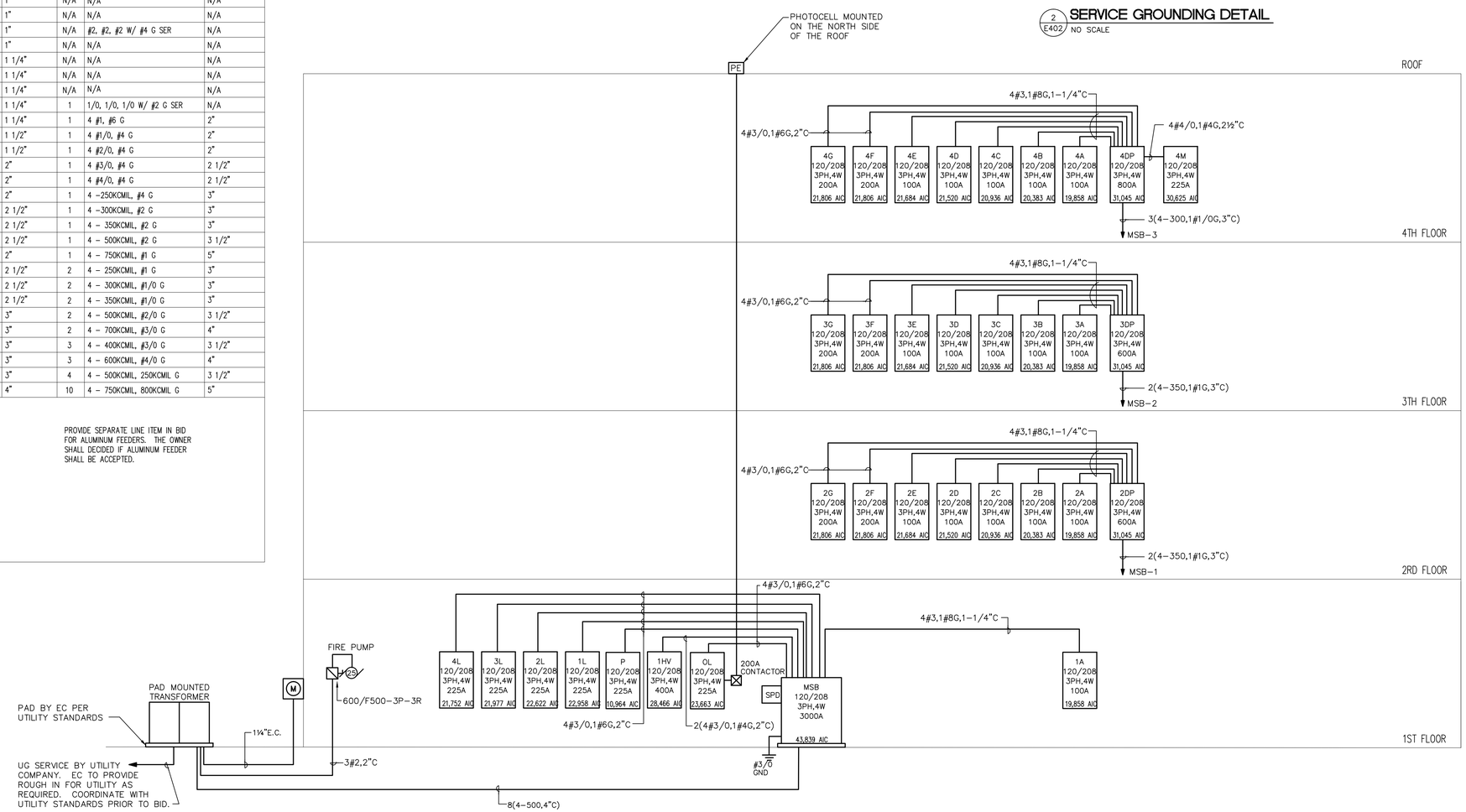
NOTES:
1. ALL FEEDER SIZES LISTED MAY NOT BE USED IN PROJECT RISER DIAGRAM.
2. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
3. REFER TO LATEST EDITION OF NEC FOR CONDUIT TYPES REQUIRED PER THEIR LOCATION. IF CONDUIT OTHER THAN 'EMT' IS REQUIRED USE SIZE PER MAXIMUM FILL TABLES.
4. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL ' D' ARE 3Ø, 3 WIRE FEEDERS, A NEUTRAL WIRE IS NOT REQUIRED.
5. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL ' F' ARE 1Ø, 3 WIRE FEEDERS.

PROVIDE SEPARATE LINE ITEM IN BID FOR ALUMINUM FEEDERS. THE OWNER SHALL DECIDED IF ALUMINUM FEEDER SHALL BE ACCEPTED.



RESISTANCE TO GROUND SHALL BE LESS THAN 25 OHMS

2 / E402 SERVICE GROUNDING DETAIL
NO SCALE



1 / E402 POWER RISER DIAGRAM
NTS

NOTE:
WHERE ELECTRICAL PANELS ARE PLACED IN STORAGE ROOMS, ALL NEC CLEARANCES MUST BE MAINTAINED.

ALLIED CONSULTING ENGINEERS
2905-D Queen City Dr.
Charlotte, NC 28208
P: (704) 399-3943 F: (704) 394-5648
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Allied #14417

MISHRA ARCHITECTURE PLLC
6800 S Creek Rd, Charlotte, NC 28277
Ph: (704) 625-6554 Fax: (704) 919-5822
EMAIL:ashish@mishraarch.com
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CIVIL:
Benchmark Engineering and Surveying
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Brandon, MS 39042
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2905-D Queen City Drive
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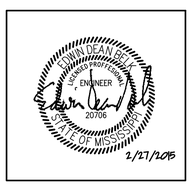
REVISIONS		
No.	Date	Description
1		



KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
POWER RISER DIAGRAM

Phase
Construction Documents

Project No.	14-081	Sheet No.
Prepared by	MAH	E402
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

SWITCHBOARD: **MSB**
120/208 VOLTS, 3 Ø 4 WIRE, TYPE: QED SWITCHBOARD AIC: 65,000
FLOOR MOUNTED, 3000A MAIN BREAKER 3000 AMPS
BY: SHEET:
JOB #: OF:
CHECKED: DB DATE: 2/27/2015

CIRCUIT NO.	CIRCUIT BREAKER FRAME	TRIP	POLE	LOAD SERVED	PHASE KVA A	B	C	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
1	65K	600	3	PANEL 2DP	86.3	83.4	73.6	2.0	1.8	0.1	88.0		4.5	147.0
2	65K	600	3	PANEL 3DP	86.3	83.4	73.6	2.0	1.8	0.1	88.0		4.5	147.0
3	65K	800	3	PANEL 4DP	105.7	104.9	93.1	2.0	3.1	59.2	88.0		4.5	147.0
4	65K	200	3	PANEL P	13.0	12.0	11.8	1.0	2.1	6.9	26.6		0.3	
5	65K	200	3	PANEL OL	9.1	8.6	8.0	22.4			3.0		0.2	
6	65K	200	3	PANEL 1L	15.0	16.3	15.7	0.6	2.7	37.6	2.8		3.3	
7	65K	200	3	PANEL 2L	11.7	12.5	12.5	0.3	3.2			15.2	18.0	
8	65K	200	3	PANEL 3L	11.5	10.7	12.5		10.4	2.4	12.0		9.9	
9	65K	200	3	PANEL 4L	5.7	3.9	4.4	13.9	0.0					
10	65K	400	3	PANEL 1HV	24.6	24.4	23.9	0.0	0.0	10.0	62.5	0.0	0.4	0.0
11	65K	100	3	PANEL 1A	13.7	13.0	11.9	0.0	0.0	0	14.0	0	0	24.5
12	65K	200	3	SPARE										
13	65K	200	3	SPARE										
14	65K	200	3	ELEVATOR *	18.0	18.0	18.0			54.0				
15	65K	200	3	ELEVATOR *	18.0	18.0	18.0			54.0				
16	65K	200		SPARE										
17	65K	200		SPARE										
				SUBTOTALS	418.4	409.2	377.0							
* - INDICATES SHUNT TRIP BREAKER				1204.7 TOTALS	1204.7			44.2	25.1	224.3	384.8	15.2	45.6	465.5

LOAD	KVA CONN.	D.F.	KVA NET
LIGHTING	44.2	1.25	55.2
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	15.1	0.50	7.5
MOTORS	224.3	1.00	224.3
LARGEST MOTOR	54.0	1.75	94.5
HEAT	384.8	1.00	384.8
KITCHEN	15.2	0.65	9.9
OTHER	45.6	1.00	45.6
GUESTROOMS	465.5	NEC	188.2
TOTAL	1258.7		1020.1

CALCULATIONS: 1020.1 / 0.36 2833.7 A

NOTES:

1	* - INDICATES SHUNT TRIP BREAKER	465500 FIRST 20000 AT 50%	10000.0
2	PANEL LISTED UL RATED FOR SERVICE ENTRANCE	UPTO 100,000 AT 40%	178200.0
3	** - PROVIDE ISOLATED GROUNDING BAR IN PANEL	REMAINDER AT 30%	0.0
4	DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42		188200

PANEL: **OL**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 30,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET: 3
JOB #: OF: 33
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	1.02			SITE LIGHTING *	8	20	2	1	2	1	20	10	BUILDING SIGN	1.20			L	2.22						
L		1.02						3	4	1	20	10	BUILDING SIGN		1.20		L	2.22						
L			1.54	SITE LIGHTING *	8	20	2	5	6	1	20	10	BUILDING SIGN			1.20	L	2.74						
L	1.54							7	8	1	20	8	BACKFLOW *	1.50			H	1.54			1.50			
L		1.27		SITE LIGHTING *	8	20	2	9	10	1	20	8	BACKFLOW *		1.50		H	1.27			1.50			
L			1.27					11	12	1	20	10	FLAG LIGHTING ***			0.70	L	1.97						
L	1.20			ENTRY SIGNAGE *	8	20	1	13	14	1	20	12	LIGHTING CONTROL *	0.20			O	1.20					0.20	
L		1.20		ENTRY SIGNAGE *	8	20	1	15	16	1	20	10	BUILDING SIGN		1.20		L	2.40						
L			0.87	PORT COCHERE LTS	10	20	1	17	18	1	20	10	BUILDING SIGN			1.20	L	2.07						
				SPARE		20	1	19	20	1	20	10	BUILDING SIGN	1.20			L	1.20						
				SPARE		20	1	21	22	1	20		SPARE											
				SPARE		20	1	23	24	1	20		SPARE											
				SPARE		20	1	25	26	1	20		SPARE											
				SPARE		20	1	27	28	1	20	10	BUILDING SIGN		1.20		L	1.20						
				SPARE		20	1	29	30	1	20	10	BUILDING SIGN			1.20	L	1.20						
				SPARE		20	1	31	32	1	20	10	BUILDING SIGN	1.20			L	1.20						
				SPARE		20	1	33	34	1	20		SPARE											
				SPARE		20	1	35	36	1	20		SPARE											
				SPARE		20	1	37	38	1	20		SPARE											
				SPARE		20	1	39	40	1	20		SPARE											
				SPARE		20	1	41	42	1	20		SPARE											
	3.76	3.49	3.68					SUBTOTALS						5.30	5.10	4.30								
													TOTALS			25.6		22.43			3.00		0.20	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	22.43	1.25	28.04
RECEPTACLES	0.00	1.00	0.00
RECEPTACLES	0.00	0.50	0.00
MOTORS	0.00	1.00	0.00
LARGEST MOTOR	0.00	1.75	0.00
HEAT	3.00	1.00	3.00
KITCHEN	0.00	0.65	0.00
OTHER	0.20	1.00	0.20
SPARE	0.00	1.00	0.00
TOTAL	25.63		31.24

CALCULATIONS: 31.2 / 0.36 86.8 A

NOTES:
1 CONTRACTOR TO FIELD VERIFY DISTANCE RUNS WITH TABLE ON SHEET E401 FOR VOLTAGE DROP.
2 * - CONTRACTOR SHALL VERIFY CONDUCTOR SIZE WITH ROUTING FOR VOLTAGE DROP.
3 *** - FLAG POLE LOCATION NOT INDICATED ON SITE PLAN. US THIS CIRCUIT ONCE LOCATION IS DETERMINED.

PANEL: **P**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD NEMA 4X AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
M	1.3							1	2	1	20	12	POOL CONTROLLER *	0.3			O			1.3			0.3	
M		1.3		POOL PUMP 3 HP *	12	20	3	3	4	1	20		SPARE							1.3				
M			1.3					5	6	1	20	12	POOL RECEPTS			0.8	R		0.8	1.3				
				SHUNT TRIP SPACE			1	7	8	1	20	12	POOL LIGHTS **	1.0			L	1.0						
				SPARE		20	1	9	10	1	20	12	POOL RECEPTS		0.9		R		0.9					
				SPARE		20	1	11	12	1	20	12	POOL RECEPTS			0.4	R		0.4					
H	8.5							13	14	1	20	12	HEATER	1.0			H				9.5			
H		8.5		PDU-1	4	80	3	15	16						0.8		M			0.8	8.5			
H			8.5					17	18	3	15	12	PDCU-1			0.8	M			0.8	8.5			
				SPACE ONLY			1	19	20					0.8			M			0.8				
				SPACE ONLY			1	21	22	1	15	12	EF-11		0.4		M			0.4				
				SPACE ONLY			1	23	24	1	20		SPARE											
				SPACE ONLY			1	25	26	1			SPACE ONLY											
				SPACE ONLY			1	27	28	1			SPACE ONLY											
				SPACE ONLY			1	29	30	1			SPACE ONLY											
	9.8	9.8	9.8					SUBTOTALS						3.1	2.1	2.0								
													TOTALS			36.8		1.0	2.1	6.9	26.6		0.3	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	1.0	1.25	1.3
RECEPTACLES	2.1	1.00	2.1
RECEPTACLES	0.0	0.50	0.0
MOTORS	6.9	1.00	6.9
LARGEST MOTOR	0.0	1.75	0.0
HEAT	26.6	1.00	26.6
KITCHEN	0.0	0.65	0.0
OTHER	0.3	1.00	0.3
SPARE	0.0	1.00	0.0
TOTAL	36.8		37.1

CALCULATIONS: 37.1 / 0.36 102.9 A

NOTES:
1 * - COORDINATE ALL EQUIPMENT WITH BREAKERS & WIRE SIZES PRIOR TO ANY ROUGH IN.
2 ** - INDICATES GFCI BREAKER

PANEL: **1L**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 30,000
SURFACE MOUNTED 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
R	0.5			ENGINEERING RECS.	12	20	1	1	2	1	20	12	LINT INTERCEPTOR	1.0			M		0.5	1.0				
H		1.4		ENGINEERING PTAC	12	15	2	3	4	1	20	12	LINT INTERCEPTOR		1.0		M			1.0	1.4			
H			1.4					5	6	1	20	12	LINT INTERCEPTOR			1.0	M			1.0	1.4			
M	2.1							7	8					1.2			M			3.3				
M		2.1		JOCKEY PUMP **	6	60	3	9	10	3	20	12	DRYER **		1.2		M			3.3				
M			2.1					11	12			12				1.2	M			3.3				
M	2.1							13	14					1.2			M			3.3				
M		2.1		BOOSTER PUMP **	6	60	3	15	16	3	20	12	DRYER **		1.2		M			3.3				
M			2.1					17	18							1.2	M			3.3				
R	0.5			GENERAL RECEPTS	12	20	1	19	20					1.2			M		0.5	1.2				
R		0.7		GENERAL RECEPTS	12	20	1	21	22	3	20	12	DRYER **		1.2		M		0.7	1.2				
R			0.9	GENERAL RECEPTS	12	20	1	23	24							1.2	M		0.9	1.2				
O	0.8			BREAK REFRIGE.	12	20	1	25	26					1.0			M			1.0			0.8	
O		1.0		BREAK MICROWAVE	12	20	1	27	28	3	20	12	WASHER **		1.0		M			1.0			1.0	
O			0.2	BREAK GENERAL REC	12	20	1	29	30							1.0	M			1.0			0.2	
O	1.0			ECO LAB RECEPTACLE	12	20	1	31	32					1.0			M			1.0			1.0	
O		0.3		OIL MINDER SYSTEM	12	20	1	33	34	3	20	12	WASHER **		1.0		M			1.0			0.3	
L			0.3	ELEV. MACHINE ROOM	12	20	1	35	36							1.0	M	0.3		1.0				
L	0.3			PIT LIGHT/REC	12	20	1	37	38					1.0			M	0.3		1.0				
M		1.1		SUMP PUMP	12	20	2	39	40	3	20	12	WASHER **		1.0		M			2.1				
M			1.1					41	42							1.0	M			2.1				
	7.4	8.7	8.1					SUBTOTALS						7.6	7.6	7.6								
													TOTALS			47.0		0.6	2.7	37.6	2.8		3.3	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.6	1.25	0.8
RECEPTACLES	2.7	1.00	2.7
RECEPTACLES	0.0	0.50	0.0
MOTORS	37.6	1.00	37.6
LARGEST MOTOR	0.0	1.75	0.0
HEAT	2.8	1.00	2.8
KITCHEN	0.0	0.65	0.0
OTHER	3.3	1.00	3.3
SPARE	0.0	1.00	0.0
TOTAL	47.0		47.1

CALCULATIONS: 47.1 / 0.36 130.9 A

NOTES:
1 ** - FIELD COORDINATE BREAKER AND WIRING SIZES WITH VENDOR PRIOR TO ANY ROUGH IN AND/OR ORDERING.
2

PANEL: **2L**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 30,000
SURFACE MOUNTED 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	1.5			SERVER RECEPT.	12	20	1	1	2	1	20	12	BREAKFAST RECEPT	1.0			O						2.5	
O		1.5		SERVER RECEPT.	12	20	1	3	4	1	20	12	BREAKFAST RECEPT		1.0		O						2.5	
O			1.5	SERVER RECEPT.	12	20	1	5	6	1	20	12	BREAKFAST RECEPT			1.0	O						2.5	
O	1.5			SERVER RECEPT.	12	20	1	7	8	1	20	12	BREAKFAST RECEPT	1.0			O						2.5	
R		0.8		OFFICE RECEPTS	12	20	1	9	10	1	20	12	BREAKFAST RECEPT		1.0		O		0.8				1.0	
R			0.8	OFFICE RECEPTS	12	20	1	11	12	1	20	12	BREAKFAST RECEPT			1.0	O		0.8				1.0	
				SPARE		20	1	13	14	1	20	12	BREAKFAST RECEPT	1.0			O						1.0	
				SPARE		20	1	15	16	1	20	12	REFRIGERATOR		1.0		K					1.0		
R			0.4	CHECK IN DESK	12	20	1	17	18	1	20	12	FREEZER			1.0	K		0.4			1.0		
R	0.4			CHECK IN DESK	12	20	1	19	20	1	20	12	PANTRY RECEPT	1.0			K		0.4			1.0		
L		0.3		CABINET LIGHTING	12	20	1	21	22	1	20	12	PANTRY RECEPT		1.0		K	0.3				1.0		
O			1.0	AMPLIFIER	12	20	1	23	24	1	20	12	PANTRY RECEPT			1.0	K					1.0	1.0	
R	0.2			WORK RECEPTACLE	12	20	1	25	26	1	20	12	PANTRY RECEPT	1.0			K		0.2			1.0		
R		0.4		WORK RECEPTACLE	12	20	1	27	28	2	40	8	PANTRY CIRCUIT **		2.5		K		0.4			2.5		
R			0.4	WORK RECEPTACLE	12	20	1	29	30							2.5	K		0.4			2.5		
				SPARE		20	1	31	32	1	20	12	ICE MACHINE **	1.2			K					1.2		
O		1.0		MARKET RECEPTACLE	12	20	1	33	34	1	20	12	PANTRY RECEPT		1.0		K					1.0	1.0	
O			1.0	MARKET RECEPTACLE	12	20	1	35	36	1	20	12	PANTRY RECEPT			1.0	K					1.0	1.0	
O	1.0			MARKET RECEPTACLE	12	20	1	37	38	1	20	12	BREAKFAST RECEPT	1.0			O						2.0	
				SPARE		20	1	39	40	1	20	12	BREAKFAST RECEPT		1.0		K					1.0		
				SPARE		20	1	41	42	1	20		SPARE											
	4.5	4.0	5.0					SUBTOTALS						7.2	8.5	7.5								
													TOTALS			36.7		0.3	3.2			15.2	18.0	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.3	1.25	0.4
RECEPTACLES	3.2	1.00	3.2
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	15.2	0.65	9.9
OTHER	18.0	1.00	18.0
SPARE	0.0	1.00	0.0
TOTAL	36.7		31.5

CALCULATIONS: 31.5 / 0.36 87.4 A

NOTES:
1 ** - COORDINATE WITH OWNER'S EQUIPMENT VENDOR PRIOR TO ANY ROUGH IN WORK.
PANEL.

PANEL: **3L**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	1.0			AUTODOOR	12	20	1	1	2	1	20	12	ELEV. CAB/CONTORLS	1.2			O						2.2	
O		1.0		AUTODOOR	12	20	1	3	4	1	20		SPARE										1.0	
R			0.9	LOBBY RECEPTS	12	20	1	5	6	1	20	12	ELEV. CAB/CONTORLS			1.2	O		0.9				1.2	
R	0.5			RECEPTS STORE	12	20	1	7	8	1	20		SPARE						0.5					
R		0.5		BUSINESS RECEPTS	12	20	1	9	10	1	20	12	HAND DRYER		1.5		H		0.5		1.5			
R			0.5	BUSINESS RECEPTS	12	20	1	11	12	1	20	12	HAND DRYER			1.5	H		0.5		1.5			
R	0.5			FLOOR RECEPTS	12	20	1	13	14	1	20	12	EWC.	0.3			O		0.5				0.3	
R		0.5		FLOOR RECEPTS	12	20	1	15	16	1	20	12	GENERAL RECEPTS		0.7		R		1.3					
R			0.5	FLOOR RECEPTS	12	20	1	17	18	1	20	10	EXTERIOR RECEPTS			0.8	R		1.3					
R	0.5			THEATER RECEPTS	12	20	1	19	20	1	20	10	EXTERIOR RECEPTS	0.8			R		1.3					
R		0.5		GENERAL RECEPTS	12	20	1	21	22	1	20		SPARE						0.5					
R			0.5	MEETING ROOM REC	12	20	1	23	24	1	20	12	TREADMILL			1.0	O		0.5				1.0	
R	0.5			MEETING ROOM REC	12	20	1	25	26	1	20	12	TREADMILL	1.0			O		0.5				1.0	
R		0.4		MEETING ROOM REC	12	20	1	27	28	1	20	12	TREADMILL		1.0		O		0.4				1.0	
R			0.4	GENERAL RECEPTS	12	20	1	29	30	1	20	12	FITNESS			0.4	O		0.4				0.4	
M	1.2			WASHER	12	20	1	31	32	1	20	12	FITNESS	0.4			O			1.2			0.4	
M		1.2		WASHER	12	20	1	33	34	1	20	12	RECEPTACLES		0.7		R		0.7	1.2				
H			2.3	DRYER	10	30	2	35	36	1	20	12	EWC.			0.3	O				2.3		0.3	
H	2.3							37	38	1	20	12	ICE MACHINE	1.2			O				2.3		1.2	
H		2.3		DRYER	10	30	2	39	40	1	20	12	GUEST LAUNDRY		0.4		R		0.4		2.3			
H			2.3					41	42	1	20		SPARE								2.3			
	6.6	6.4	7.4					SUBTOTALS						4.9	4.3	5.2								
													TOTALS			34.7			10.4	2.4	12.0		9.9	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	0.4	0.50	0.2
MOTORS	2.4	1.00	2.4
LARGEST MOTOR	0.0	1.75	0.0
HEAT	12.0	1.00	12.0
KITCHEN	0.0	0.65	0.0
OTHER	9.9	1.00	9.9
SPARE	0.0	1.00	0.0
TOTAL	34.7		34.5

CALCULATIONS: 34.5 / 0.36 95.9 A

NOTES:

PANEL: **4L**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	B	C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	B	C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	0.4			STAIR LIGHTS	12	20	1	1	2	1	20	10	STORAGE LTS/REC	0.3			L	0.7						
L		0.4		STAIR LIGHTS	12	20	1	3	4	1	20		SPARE					0.4						
L			0.5	CORRIDOR LIGHTS	12	20	1	5	6	1	20		SPARE					0.5						
L	0.8			CORRIDOR LIGHTS	12	20	1	7	8	1	20		SPARE					0.8						
L		1.1		STORAGE LIGHTS	12	20	1	9	10	1	20		SPARE					1.1						
L			0.5	BREAKFAST LIGHTS	12	20	1	11	12	1	20		SPARE					0.5						
L	1.4			LAUNDRY LIGHTS	12	20	1	13	14	1	20		SPARE					1.4						
L		0.7		REGISTRATION LIGHTS	12	20	1	15	16	1	20		SPARE					0.7						
L			1.4	LOBBY LIGHTS	12	20	1	17	18	1	20		SPARE					1.4						
L	0.9			LOBBY PENDANTS	12	20	1	19	20	1	20		SPARE					0.9						
L		0.3		BUS. CTR LIGHTS	12	20	1	21	22	1	20		SPARE					0.3						
L			1.0	MEETING RM LIGHTS	12	20	1	23	24	1	20		SPARE					1.0						
L	0.3			ELEV. RM LIGHTS	12	20	1	25	26	1	20		SPARE					0.3						
L		0.5		BATHROOM LIGHTS	12	20	1	27	28	1	20		SPARE					0.5						
L			1.0	FITNESS RM LIGHTS	12	20	1	29	30	1	20		SPARE					1.0						
L	1.5			POOL RM LIGHTS *	12	20	1	31	32	1	20		SPARE					1.5						
L		0.9		POOL RM LIGHTS *	12	20	1	33	34	1	20		SPARE					0.9						
L				SPARE	12	20	1	35	36	1	20		SPARE					0.0						
				SPARE		20	1	37	38	1	20		SPARE											
				SPARE		20	1	39	40	1	20		SPARE											
				SPARE		20	1	41	42	1	20		SPARE											
	5.3	3.9	4.4					SUBTOTALS						0.3	0.0	0.0								
													TOTALS			13.9		13.9	0.0					

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	13.9	1.25	17.4
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	0.0	1.00	0.0
SPARE	0.0	1.00	0.0
TOTAL	13.9		17.4

CALCULATIONS: 17.4 / 0.36 48.3 A

NOTES:
* DENOTES GFCI BREAKER

MSB	–	–
OL	P	1L
2L	3L	4L

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REVISIONS		
No.	Date	Description
1		

EDWIN DEAN BELK
20706
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL PANEL SCHEDULES

Phase
Construction Documents

Project No. 14-081
Prepared by MAH
Checked by EDB
Date Feb. 27, 2015
Sheet No. E501

Holiday Inn Express & Suites

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Phone: (704) 399-3943
Email: asoler@allied-engineers.com

PANEL: **1HV** — BY: GKG — SHEET:
120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 30,000 — JOB #: — OF:
SURFACE MOUNTED, 400 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 400 — CHECKED BY: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	4.0			A H-1	8	40	2	1	2	1	20	SPARE								4.0			
H		4.0						3	4	1	20	SPARE								4.0			
H			2.5	A H-2	10	25	2	5	6	1	20	12 EWH-1			1.0	H				3.5			
H	2.5							7	8	1	20	12 EWH-1	1.0			H				3.5			
H		5.5		A H-3	6	60	2	9	10	1	20	SPARE								5.5			
H			5.5					11	12	1	20	SPARE								5.5			
H	2.5			A H-4	10	25	2	13	14	1	20	12 ELEC RM FANS	0.2			M			0.2	2.5			
H		2.5						15	16	1	20	12 EXHAUST FANS EF7/3		0.2		M			0.2	2.5			
H			4.0	A H-5	8	40	2	17	18	1	20	12 EXHAUST FANS EF9/6			0.5	M			0.5	4.0			
H	4.0							19	20	1	20	12 EXHAUST FANS	0.4			M			0.4	4.0			
H		4.0		A H-6	8	40	2	21	22	2	25	8 SSO-1		2.2		M			2.2	4.0			
H			4.0					23	24		8				2.2	M			2.2	4.0			
H	4.0			A H-7	8	40	2	25	26	2	25	8 SSO-2	2.2			M			2.2	4.0			
H		4.0						27	28		8			2.2		M			2.2	4.0			
H			4.0	A H-8	8	40	2	29	30	1	20	SPARE								4.0			
H	4.0				8			31	32	1		SPACE ONLY								4.0			
				SPACE ONLY			1	33	34	1		SPACE ONLY											
				SPACE ONLY			1	35	36	1		SPACE ONLY											
				SPACE ONLY			1	37	38	1		SPACE ONLY											
				SPACE ONLY			1	39	40	1		SPACE ONLY											
O			0.4	BR RECEPTACLES	12	20	1	41	42	1		SPACE ONLY										0.4	
	20.8	19.9	20.3	SUBTOTALS									3.8	4.6	3.7								
				TOTALS											73.0		0.0	0.0	10.0	62.5	0.0	0.4	0.0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	10.0	1.00	10.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	62.5	1.00	62.5
KITCHEN	0.0	0.65	0.0
OTHER	0.4	1.00	0.4
SPARE	0.0	1.00	0.0
TOTAL	73.0		73.0

CALCULATIONS: 73.0 / 0.36 202.7 A

NOTES:
1 FIELD COORDINATE ALL ELECTRICAL CONNECTION LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH IN WORK.
2 * - INDICATES SHUNT TRIP RATED BREAKER.

PANEL: **1A** — BY: — SHEET:
120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000 — JOB #: — OF:
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100 — CHECKED BY: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOMS
S	1.2			KING 118 *	12	20	1	1	2	1	20	12 KING 142 *	1.2			S							2.3
S		1.0		KING 118	12	20	1	3	4	1	20	12 KING 142		1.0		S							2.0
S			1.0	KING 118	12	20	1	5	6	1	20	12 KING 142			1.0	S							2.0
S	1.0			KING 118	12	20	1	7	8	1	20	12 KING 142	1.0			S							2.0
S		0.8		KING 118	12	20	1	9	10	1	20	12 KING 142		0.8		S							1.5
H			1.4	KING 118 PTAC	12	15	2	11	12	2	15	12 KING 142 PTAC			1.4	H				2.8			
H	1.4							13	14				1.4			H				2.8			
S		1.2		KING 135 *	12	20	1	15	16	1	20	12 ACC ROLLIN WIKING *		1.2		S							2.3
S			1.0	KING 135	12	20	1	17	18	1	20	12 ACC ROLLIN WIKING			1.0	S							2.0
S	1.0			KING 135	12	20	1	19	20	1	20	12 ACC ROLLIN WIKING	1.0			S							2.0
S		1.0		KING 135	12	20	1	21	22	1	20	12 ACC ROLLIN WIKING		1.0		S							2.0
S			0.8	KING 135	12	20	1	23	24	1	20	12 ACC ROLLIN WIKING			0.8	S							1.5
H	1.4			KING 135 PTAC	12	15	2	25	26	2	15	12 XKING 123 PTAC	1.4			H				2.8			
H		1.4						27	28					1.4		H				2.8			
S			1.2	HI KING 136 *	12	20	1	29	30	1	20	SPARE											1.2
S	1.0			HI KING 136	12	20	1	31	32	1	20	SPARE											1.0
S		1.0		HI KING 136	12	20	1	33	34	1	20	SPARE											1.0
S			1.0	HI KING 136	12	20	1	35	36	1	20	SPARE											1.0
S	0.8			HI KING 136	12	20	1	37	38	1	20	SPARE											0.8
H		1.4		HI KING 136 PTAC	12	15	2	39	40	1	20	SPARE								1.4			
H			1.4					41	42	1	20	SPARE								1.4			
	7.7	7.7	7.7	SUBTOTALS									6.0	5.3	4.2								
				TOTALS											38.5		0.0	0.0	0	14.0	0	0	24.5

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	14.0	1.00	14.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	24.5	NEC	11.8
TOTAL	38.5		25.8

CALCULATIONS: 25.8 / 0.36 71.7 A

NOTES:
1 * - INDICATES ARC FAULT RATED BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

24500 FIRST 20000 AT 50%	10000.0	
UP TO 100,000 AT 40%	1800.0	
REMAINDER AT 30%	0	
	11800	

PANEL: **2DP** — BY: — SHEET:
120/208 V OLTS, 3 ∅ 4 WIRE, TYPE: NQOD AIC: 42,000 — JOB #: — OF:
SURFACE MOUNTED, PANEL SIZE: 600A MAIN LUG ONLY AMPS 600 — CHECKED: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
	14.1												14.1				0.0	0	0	0	0	0	39.2
		13.3		PANEL 2A	3	100	3	1	2	3	100	3 PANEL 2B		13.3			0	0	0	0	0	0	39.2
			11.8												11.8								
	14.1												9.8						0	0	0	0	39.2
		13.3		PANEL 2C	3	100	3	3	4	3	100	3 PANEL2D		9.8					0	0	0	0	29.4
			11.8												9.8								
	3.4												20.5				2.0	1.8	0.1			4.5	
		2.9		PANEL 2E	3	100	3	5	6	3	200	3/0 PANEL 2F		20.5			0	0	0	58.7	0	0	0
			2.0												17.6								
				SPARE		100	3	7	8	3	200	3/0 PANEL 2G	10.3				0	0.0	0	29.3	0	0	0
														10.3									
															8.8								
				SPARE		100	3	9	10	3		SPACE ONLY											
				SPACE ONLY			3	11	12	3		SPACE ONLY											
				SPACE ONLY			3	13	14	3		SPACE ONLY											
	31.6	29.5	25.6	SUBTOTALS									54.7	53.9	48.0								
				TOTALS											243.4		2.0	1.8	0.1	88.0	0	4.5	147.0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	1.8	1.00	1.8
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.1	1.00	0.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	88.0	1.00	88.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
GUESTROOMS	147.0	NEC	60.8
TOTAL	243.4		157.7

CALCULATIONS: 157.7 / 0.36 437.9 A

NOTES:
1. DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

147,000 FIRST 20000 AT 50%	10000.0	
UP TO 100,000 AT 40%	50800.0	
REMAINDER AT 30%	0.0	
	60800	

PANEL: **2A** — BY: — SHEET:
120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000 — JOB #: — OF:
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100 — CHECKED BY: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING WIDE 203 *	12	20	1	1	2	1	20	12 KING SUITE 211 *	1.2			S							2.3
S		1.0		KING WIDE 203	12	20	1	3	4	1	20	12 KING SUITE 211		1.0		S							2.0
S			1.0	KING WIDE 203	12	20	1	5	6	1	20	12 KING SUITE 211			1.0	S							2.0
S	1.0			KING WIDE 203	12	20	1	7	8	1	20	12 KING SUITE 211	1.0			S							2.0
S		0.8		KING WIDE 203	12	20	1	9	10	1	20	12 KING SUITE 211		0.8		S							1.5
S			1.2	KING 205 *	12	20	1	11	12	1	20	12 KING SUITE 213 *			1.2	S							2.3
S	1.0			KING 205	12	20	1	13	14	1	20	12 KING SUITE 213	1.0			S							2.0
S		1.0		KING 205	12	20	1	15	16	1	20	12 KING SUITE 213		1.0		S							2.0
S			1.0	KING 205	12	20	1	17	18	1	20	12 KING SUITE 213			1.0	S							2.0
S	0.8			KING 205	12	20	1	19	20	1	20	12 KING SUITE 213	0.8			S							1.5
S		1.2		KING 207 *	12	20	1	21	22	1	20	12 KING SUITE 215 *		1.2		S							2.3
S	1.0			KING 207	12	20	1	23	24	1	20	12 KING SUITE 215	1.0			S							2.0
S		1.0		KING 207	12	20	1	25	26	1	20	12 KING SUITE 215		1.0		S							2.0
S			0.8	KING 207	12	20	1	27	28	1	20	12 KING SUITE 215			0.8	S							1.5
S	1.2			KING 209 *	12	20	1	29	30	1	20	12 KING 217 *	1.2			S							2.3
S		1.0		KING 209	12	20	1	31	32	1	20	12 KING 217		1.0		S							2.0
S			1.0	KING 209	12	20	1	33	34	1	20	12 KING 217			1.0	S							2.0
S	1.0			KING 209	12	20	1	35	36	1	20	12 KING 217	1.0			S							2.0
S		0.8		KING 209	12	20	1	37	38	1	20	12 KING 217		0.8		S							1.5
				SPARE		20	1	39	40	1	20	SPARE											
									42	1	20	SPARE											
	7.1	6.7	5.9	SUBTOTALS				41					7.1	6.7	5.9								
				TOTALS											39.2		0.0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0	
UP TO 100,000 AT 40%	7680.0	
REMAINDER AT 30%	0	
	17680	

PANEL: **2B** — BY: — SHEET:
120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000 — JOB #: — OF:
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100 — CHECKED BY: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING 221 *	12	20	1	1	2	1	20	12 KING 229 *	1.2			S							2.3
S		1.0		KING 221	12	20	1	3	4	1	20	12 KING 229		1.0		S							2.0
S			1.0	KING 221	12	20	1	5	6	1	20	12 KING 229			1.0	S							2.0
S	1.0			KING 221	12	20	1	7	8	1	20	12 KING 229	1.0			S							2.0
S		0.8		KING 221	12	20	1	9	10	1	20	12 KING 229		0.8		S							1.5
S			1.2	KING 223 *	12	20	1	11	12	1	20	12 KING 231 *			1.2	S							2.3
S	1.0			KING 223	12	20	1	13	14	1	20	12 KING 231	1.0			S							2.0
S		1.0		KING 223	12	20	1	15	16	1	20	12 KING 231		1.0		S							2.0
S			1.0	KING 223	12	20	1	17	18	1	20	12 KING 231			1.0	S							2.0
S	0.8			KING 223	12	20	1	19	20	1	20	12 KING 233 *	0.8			S							1.5
S		1.2		KING 225 *	12	20	1	21	22	1	20	12 KING 233 *		1.2		S							2.3
S			1.0	KING 225	12	20	1	23	24	1	20	12 KING 233			1.0	S							2.0
S	1.0			KING 225	12	20	1	25	26	1	20	12 KING 233	1.0			S							2.0
S		1.0		KING 225	12	20	1	27	28	1	20	12 KING 233		1.0		S							2.0
S			0.8	KING 225	12	20	1	29	30	1	20	12 KING 233			0.8	S							1.5
S	1.2			KING 227 *	12	20	1	31	32	1	20	12 KING 235 *	1.2			S							2.3
S		1.0		KING 227	12	20	1	33	34	1	20	12 KING 235		1.0		S							2.0
S			1.0	KING 227	12	20	1	35	36	1	20	12 KING 235			1.0	S							2.0
S	1.0			KING 227	12	20	1	37	38	1	20	12 KING 235	1.0			S							2.0
S		0.8		KING 227	12	20	1	39	40	1	20	12 KING 235		0.8		S							1.5
				SPARE		20	1	41	42	1	20	SPARE											
	7.1	6.7	5.9	SUBTOTALS									7.1	6.7	5.9								
				TOTALS											39.2		0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0	
UP TO 100,000 AT 40%	7680.0	
REMAINDER AT 30%	0	
	17680	

PANEL: **2C** — BY: — SHEET:
120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000 — JOB #: — OF:
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100 — CHECKED BY: DB — DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			DOUBLE QUEEN 204 *	12	20	1	1	2	1	20	12 DOUBLE QUEEN 212 *	1.2			S							2.3
S		1.0		DOUBLE QUEEN 204	12	20	1	3	4	1	20	12 DOUBLE QUEEN 212		1.0		S							2.0
S			1.0	DOUBLE QUEEN 204	12	20	1	5	6	1	20	12 DOUBLE QUEEN 212			1.0	S							2.0
S	1.0			DOUBLE QUEEN 204	12	20	1	7	8	1	20	12 DOUBLE QUEEN 212	1.0			S							2.0
S		0.8		DOUBLE QUEEN 204	12	20	1	9	10	1	20	12 DOUBLE QUEEN 212		0.8		S							1.5
S			1.2	DOUBLE QUEEN 206 *	12	20	1	11	12	1	20	12 ACC. KING STE 214 *			1.2	S							2.3
S	1.0			DOUBLE QUEEN 206	12	20	1	13	14	1	20	12 ACC. KING STE 214	1.0			S							2.0
S		1.0		DOUBLE QUEEN 206	12	20	1	15	16	1	20	12 ACC. KING STE 214		1.0		S							2.0
S			1.0	DOUBLE QUEEN 206	12	20	1	17	18	1	20	12 ACC. KING STE 214			1.0	S							2.0
S	0.8			DOUBLE QUEEN 206	12	20	1	19	20	1	20	12 ACC. KING STE 214	0.8			S							1.5
S		1.2		DOUBLE QUEEN 208 *	12	20	1	21	22	1	20	12 HI DBL QQ STE 216 *		1.2		S							2.3
S			1.0	DOUBLE QUEEN 208	12	20	1	23	24	1	20	12 HI DBL QQ STE 216			1.0	S							2.0
S	1.0			DOUBLE QUEEN 208	12	20	1	25	26	1	20	12 HI DBL QQ STE 216	1.0			S							2.0
S		1.0		DOUBLE QUEEN 208	12	20	1	27	28	1	20	12 HI DBL QQ STE 216		1.0		S							2.0
S			0.8	DOUBLE QUEEN 208	12	20	1	29	30	1	20	12 HI DBL QQ STE 216			0.8	S							1.5
S	1.2			DOUBLE QUEEN 210 *	12	20	1	31	32	1	20	12 DBL QUEEN STE 218 *	1.2			S							2.3
S		1.0		DOUBLE QUEEN 210	12	20	1	33	34	1	20	12 DBL QUEEN STE 218		1.0		S							2.0
S			1.0	DOUBLE QUEEN 210	12	20	1	35	36	1	20	12 DBL QUEEN STE 218			1.0	S							2.0
S	1.0			DOUBLE QUEEN 210	12	20	1	37	38	1	20	12 DBL QUEEN STE 218	1.0			S							2.0
S		0.8		DOUBLE QUEEN 210	12	20	1	39	40	1	20	12 DBL QUEEN STE 218		0.8		S							1.5
				SPACE ONLY			1	41	42	1		SPACE ONLY											
	7.1	6.7	5.9	SUBTOTALS									7.1	6.7	5.9								
				TOTALS											39.2			0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0	
UP TO 100,000 AT 40%	7680.0	
REMAINDER AT 30%	0	
	17680	

1HV	1A	–
–	DP2	2A
2B	2C	–

REVISIONS

No.	Date	Description
1		

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JOHN DEAN BECK — REGISTERED PROFESSIONAL — ENGINEER — 20706 — STATE OF MISSISSIPPI — 2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL PANEL SCHEDULES

Phase
Construction Documents

Project No.	14-081	Sheet No. E502
Prepared by	MAH	
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

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PANEL: **2D**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
				SPARE		20	1	1	2	1	20	12	HI DBL QQ 230 *	1.2			S							1.2
				SPARE		20	1	3	4	1	20	12	HI DBL QQ 230		1.0		S							1.0
				SPARE		20	1	5	6	1	20	12	HI DBL QQ 230			1.0	S							1.0
				SPARE		20	1	7	8	1	20	12	HI DBL QQ 230	1.0			S							1.0
				SPARE		20	1	9	10	1	20	12	HI DBL QQ 230		0.8		S							0.8
S			1.2	DOUBLE QUEEN 220 *	12	20	1	11	12	1	20	12	DOUBLE QUEEN 232 *			1.2	S							2.3
S	1.0			DOUBLE QUEEN 220	12	20	1	13	14	1	20	12	DOUBLE QUEEN 232	1.0			S							2.0
S		1.0		DOUBLE QUEEN 220	12	20	1	15	16	1	20	12	DOUBLE QUEEN 232		1.0		S							2.0
S			1.0	DOUBLE QUEEN 220	12	20	1	17	18	1	20	12	DOUBLE QUEEN 232			1.0	S							2.0
S	0.8			DOUBLE QUEEN 220	12	20	1	19	20	1	20	12	DOUBLE QUEEN 232	0.8			S							1.5
S		1.2		DOUBLE QUEEN 226 *	12	20	1	21	22	1	20	12	KING X 234 *		1.2		S							2.3
S			1.0	DOUBLE QUEEN 226	12	20	1	23	24	1	20	12	KING X 234			1.0	S							2.0
S	1.0			DOUBLE QUEEN 226	12	20	1	25	26	1	20	12	KING X 234	1.0			S							2.0
S		1.0		DOUBLE QUEEN 226	12	20	1	27	28	1	20	12	KING X 234		1.0		S							2.0
S			0.8	DOUBLE QUEEN 226	12	20	1	29	30	1	20	12	KING X 234			0.8	S							1.5
S	1.2			DOUBLE QUEEN 228 *	12	20	1	31	32	1			SPACE ONLY											1.2
S		1.0		DOUBLE QUEEN 228	12	20	1	33	34	1			SPACE ONLY											1.0
S			1.0	DOUBLE QUEEN 228	12	20	1	35	36	1			SPACE ONLY											1.0
S	1.0			DOUBLE QUEEN 228	12	20	1	37	38	1			SPACE ONLY											1.0
S		0.8		DOUBLE QUEEN 228	12	20	1	39	40	1			SPACE ONLY											0.8
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	4.9	4.9	4.9	SUBTOTALS										4.9	4.9	4.9								
													TOTALS			29.4				0	0	0	0	29.4

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	29.4	NEC	13.8
TOTAL	29.4		13.8

CALCULATIONS: 13.8 / 0.36 38.2 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

29400 FIRST 20000 AT 50% 10000.0
UP TO 100,000 AT 40% 3760.0
REMAINDER AT 30% 0
13760

PANEL: **2E**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	0.9			CORRIDOR LIGHTS	12	20	1	1	2	1	20	12	RECEPTS - CORRIDOR	0.5			R	0.9	0.5					
L		1.1		CORRIDOR LIGHTS	12	20	1	3	4	1	20	12	RECEPTS - CORRIDOR		0.7		R	1.1	0.7					
L				SPARE		20	1	5	6	1	20	12	RECEPTS - CORRIDOR			0.5	R	0.0	0.5					
O	1.5			REC-ICE MACHINE *	12	20	1	7	8	1	20		SPARE										1.5	
M		0.1		EF-6	12	15	1	9	10	1	20		SPARE							0.1				
				SPARE		20	1	11	12	1	20	12	FIRE/SMOKES **			0.5	O						0.5	
				SPARE		20	1	13	14	1	20		SPARE											
				SPARE		20	1	15	16	1	20	12	RECEPT-CATV **		1.0		O						1.0	
				SPARE		20	1	17	18	1	20	12	RECEPT-TB **			1.0	O						1.0	
				SPARE		20	1	19	20	1	20	12	FACP EXTENDER **	0.5			O						0.5	
				SPARE		20	1	21	22	1	20		SPARE											
				SPARE		20	1	23	24	1	20		SPARE											
				SPARE		20	1	25	26	1	20		SPARE											
				SPARE		20	1	27	28	1	20		SPARE											
				SPARE		20	1	29	30	1	20		SPARE											
	2.4	1.2	0.0	SUBTOTALS										1.0	1.7	2.0								
													TOTALS			8.4		2.0	1.8	0.1			4.5	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	1.8	1.00	1.8
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.1	1.00	0.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
SPARE	0.0	1.00	0.0
TOTAL	8.4		8.9

CALCULATIONS: 8.9 / 0.36 24.7 A

NOTES:
1 ** - INDICATES BREAKER WITH LOCKING DEVICE.
2 * - INDICATES GFCI RATED BREAKER

PANEL: **2F**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	2	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						3	4						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	5	6	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							7	8					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	9	10	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					11	12							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	13	14	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						15	16						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	17	18	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							19	20					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	21	22	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					23	24							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	25	26	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						27	28						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	29	30	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							31	32					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	33	34	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					35	36							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	37	38	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						39	40						1.5		H				2.9			
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	10.3	10.3	8.8	SUBTOTALS										10.3	10.3	8.8								
													TOTALS			58.7		0	0	0	58.7	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	58.7	1.00	58.7
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	58.7		58.7

CALCULATIONS: 58.7 / 0.36 162.9 A

NOTES:

PANEL: **2G**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	3	1			SPACE ONLY								1.5			
H		1.5						3	5	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	5	7	1			SPACE ONLY								1.5			
H	1.5							7	9	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	9	11	1			SPACE ONLY								1.5			
H			1.5					11	13	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	13	15	1			SPACE ONLY								1.5			
H		1.5						15	17	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	17	19	1			SPACE ONLY								1.5			
H	1.5							19	21	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	21	23	1			SPACE ONLY								1.5			
H			1.5					23	25	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	25	27	1			SPACE ONLY								1.5			
H		1.5						27	29	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	29	31	1			SPACE ONLY								1.5			
H	1.5							31	33	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	33	35	1			SPACE ONLY								1.5			
H			1.5					35	37	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	37	39	1			SPACE ONLY								1.5			
H		1.5						39	41	1			SPACE ONLY								1.5			
				SPACE ONLY			1	41	43	1			SPACE ONLY											
	10.3	10.3	8.8	SUBTOTALS										0.0	0.0	0.0								
													TOTALS			29.3		0	0.0	0	29.3	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	29.3	1.00	29.3
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	29.3		29.3

CALCULATIONS: 29.3 / 0.36 81.5 A

NOTES:

PANEL: **3DP**
120/208 VOLTS, 3 Ø 4 WIRE, TYPE: NQOD AIC:
SURFACE MOUNTED, PANEL SIZE 600A MAIN LUG ONLY AMPS 600
BY: SHEET:
JOB #: OF:
CHECKED: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
	14.1													14.1				0.0	0	0	0	0	0	39.2
		13.3		PANEL 3A	3	100	3	1	2	3	100	3	PANEL 3B		13.3			0	0	0	0	0	0	39.2
			11.8													11.8								
	14.1													9.8						0	0	0	0	39.2
		13.3		PANEL 3C	3	100	3	3	4	3	100	3	PANEL3D		9.8					0	0	0	0	29.4
			11.8													9.8								
	3.4													20.5				2.0	1.8	0.1			4.5	
		2.9		PANEL 3E	3	100	3	5	6	3	200	3/0	PANEL 3F		20.5			0	0	0	58.7	0	0	0
			2.0													17.6								
														10.3										
				SPARE		100	3	7	8	3	200	3/0	PANEL 3G		10.3			0	0.0	0	29.3	0	0	0
																8.8								
				SPARE		100	3	9	10	3			SPACE ONLY											
				SPACE ONLY			3	11	12	3			SPACE ONLY											
				SPACE ONLY			3	13	14	3			SPACE ONLY											
	31.6	29.5	25.6	SUBTOTALS										54.7	53.9	48.0								
													TOTALS			243.4		2.0	1.8	0.1	88.0		4.5	147.0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	1.8	1.00	1.8
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.1	1.00	0.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	88.0	1.00	88.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
GUESTROOOMS	147.0	NEC	60.8
TOTAL	243.4		157.7

CALCULATIONS: 157.7 / 0.36 437.9 A

NOTES:
1. DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

147,000 FIRST 20000 AT 50% 10000.0
UP TO 100,000 AT 40% 50800.0
REMAINDER AT 30% 0.0
60800

PANEL: **3A**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING WIDE 303 *	12	20	1	1	2	1	20	12	KING SUITE 311 *	1.2			S							2.3
S		1.0		KING WIDE 303	12	20	1	3	4	1	20	12	KING SUITE 311		1.0		S							2.0
S			1.0	KING WIDE 303	12	20	1	5	6	1	20	12	KING SUITE 311			1.0	S							2.0
S	1.0			KING WIDE 303	12	20	1	7	8	1	20	12	KING SUITE 311	1.0			S							2.0
S		0.8		KING WIDE 303	12	20	1	9	10	1	20	12	KING SUITE 311		0.8		S							1.5
S			1.2	KING 305 *	12	20	1	11	12	1	20	12	KING SUITE 313 *			1.2	S							2.3
S	1.0			KING 305	12	20	1	13	14	1	20	12	KING SUITE 313	1.0			S							2.0
S		1.0		KING 305	12	20	1	15	16	1	20	12	KING SUITE 313		1.0		S							2.0
S			1.0	KING 305	12	20	1	17	18	1	20	12	KING SUITE 313			1.0	S							2.0
S	0.8			KING 305	12	20	1	19	20	1	20	12	KING SUITE 313	0.8			S							1.5
S		1.2		KING 307 *	12	20	1	21	22	1	20	12	KING SUITE 315 *		1.2		S							2.3
S			1.0	KING 307	12	20	1	23	24	1	20	12	KING SUITE 315			1.0	S							2.0
S	1.0			KING 307	12	20	1	25	26	1	20	12	KING SUITE 315	1.0			S							2.0
S		1.0		KING 307	12	20	1	27	28	1	20	12	KING SUITE 315		1.0		S							2.0
S			0.8	KING 307	12	20	1	29	30	1	20	12	KING SUITE 315			0.8	S							1.5
S	1.2			KING 309 *	12	20	1	31	32	1	20	12	KING 317 *	1.2			S							2.3
S		1.0		KING 309	12	20	1	33	34	1	20	12	KING 317		1.0		S							2.0
S			1.0	KING 309	12	20	1	35	36	1	20	12	KING 317			1.0	S							2.0
S	1.0			KING 309	12	20	1	37	38	1	20	12	KING 317	1.0			S							2.0
S		0.8		KING 309	12	20	1	39	40	1	20	12	KING 317		0.8		S							1.5
				SPARE		20	1	41	42	1	20		SPARE											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2		0.0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT RATED BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50% 10000.0
UP TO 100,000 AT 40% 7680.0
REMAINDER AT 30% 0
17680

PANEL: **3B**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING 321 *	12	20	1	1	2	1	20	12	KING 329 *	1.2			S							2.3
S		1.0		KING 321	12	20	1	3	4	1	20	12	KING 329		1.0		S							2.0
S			1.0	KING 321	12	20	1	5	6	1	20	12	KING 329			1.0	S							2.0
S	1.0			KING 321	12	20	1	7	8	1	20	12	KING 329	1.0			S							2.0
S		0.8		KING 321	12	20	1	9	10	1	20	12	KING 329		0.8		S							1.5
S			1.2	KING 323 *	12	20	1	11	12	1	20	12	KING 331 *			1.2	S							2.3
S	1.0			KING 323	12	20	1	13	14	1	20	12	KING 331	1.0			S							2.0
S		1.0		KING 323	12	20	1	15	16	1	20	12	KING 331		1.0		S							2.0
S			1.0	KING 323	12	20	1	17	18	1	20	12	KING 331			1.0	S							2.0
S	0.8			KING 323	12	20	1	19	20	1	20	12	KING 331	0.8			S							1.5
S		1.2		KING 325 *	12	20	1	21	22	1	20	12	KING 333 *		1.2		S							2.3
S			1.0	KING 325	12	20	1	23	24	1	20	12	KING 333			1.0	S							2.0
S	1.0			KING 325	12	20	1	25	26	1	20	12	KING 333	1.0			S							2.0
S		1.0		KING 325	12	20	1	27	28	1	20	12	KING 333		1.0		S							2.0
S			0.8	KING 325	12	20	1	29	30	1	20	12	KING 333			0.8	S							1.5
S	1.2			KING 327 *	12	20	1	31	32	1	20	12	HI KING 335 *	1.2			S							2.3
S		1.0		KING 327	12	20	1	33	34	1	20	12	HI KING 335		1.0		S							2.0
S			1.0	KING 327	12	20	1	35	36	1	20	12	HI KING 335			1.0	S							2.0
S	1.0			KING 327	12	20	1	37	38	1	20	12	HI KING 335	1.0			S							2.0
S		0.8		KING 327	12	20	1	39	40	1	20	12	HI KING 335		0.8		S							1.5
				SPARE		20	1	41	42	1	20		SPARE											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2		0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	1.00	39.2
TOTAL	39.2		39.2

CALCULATIONS: 39.2 / 0.36 108.9 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50% 10000.0
UP TO 100,000 AT 40% 7680.0
REMAINDER AT 30% 0
17680

PANEL: **3C**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			HI DOUB. QUEEN 304 *	12	20	1	1	2	1	20	12	DOUBLE QUEEN 312 *	1.2			S							2.3
S		1.0		HI DOUB. QUEEN 304	12	20	1	3	4	1	20	12	DOUBLE QUEEN 312		1.0		S							2.0
S			1.0	HI DOUB. QUEEN 304	12	20	1	5	6	1	20	12	DOUBLE QUEEN 312			1.0	S							2.0
S	1.0			HI DOUB. QUEEN 304	12	20	1	7	8	1	20	12	DOUBLE QUEEN 312	1.0			S							2.0
S		0.8		HI DOUB. QUEEN 304	12	20	1	9	10	1	20	12	DOUBLE QUEEN 312		0.8		S							1.5
S			1.2	DOUBLE QUEEN 306 *	12	20	1	11	12	1	20	12	ACC DBL QUEEN 314 *			1.2	S							2.3
S	1.0			DOUBLE QUEEN 306	12	20	1	13	14	1	20	12	ACC DBL QUEEN 314	1.0			S							2.0
S		1.0		DOUBLE QUEEN 306	12	20	1	15	16	1	20	12	ACC DBL QUEEN 314		1.0		S							2.0
S			1.0	DOUBLE QUEEN 306	12	20	1	17	18	1	20	12	ACC DBL QUEEN 314			1.0	S							2.0
S	0.8			DOUBLE QUEEN 306	12	20	1	19	20	1	20	12	ACC DBL QUEEN 314	0.8			S							1.5
S		1.2		DOUBLE QUEEN 308 *	12	20	1	21	22	1	20	12	DBL QUEEN STE 316 *		1.2		S							2.3
S			1.0	DOUBLE QUEEN 308	12	20	1	23	24	1	20	12	DBL QUEEN STE 316			1.0	S							2.0
S	1.0			DOUBLE QUEEN 308	12	20	1	25	26	1	20	12	DBL QUEEN STE 316	1.0			S							2.0
S		1.0		DOUBLE QUEEN 308	12	20	1	27	28	1	20	12	DBL QUEEN STE 316		1.0		S							2.0
S			0.8	DOUBLE QUEEN 308	12	20	1	29	30	1	20	12	DBL QUEEN STE 316			0.8	S							1.5
S	1.2			DOUBLE QUEEN 310 *	12	20	1	31	32	1	20	12	DBL QUEEN STE 318 *	1.2			S							2.3
S		1.0		DOUBLE QUEEN 310	12	20	1	33	34	1	20	12	DBL QUEEN STE 318		1.0		S							2.0
S			1.0	DOUBLE QUEEN 310	12	20	1	35	36	1	20	12	DBL QUEEN STE 318			1.0	S							2.0
S	1.0			DOUBLE QUEEN 310	12	20	1	37	38	1	20	12	DBL QUEEN STE 318	1.0			S							2.0
S		0.8		DOUBLE QUEEN 310	12	20	1	39	40	1	20	12	DBL QUEEN STE 318		0.8		S							1.5
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2				0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50% 10000.0
UP TO 100,000 AT 40% 7680.0
REMAINDER AT 30% 0
17680

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Phone: (704) 399-3943
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REVISIONS

No.	Date	Description
1		

EDWIN DEAN BELK
20706
2/27/2015

KEY PLAN

2D	2E	2F
2G	DP3	3A
3B	3C	–

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL PANEL SCHEDULES

Phase
Construction Documents

Project No. 14-081
Prepared by MAH
Checked by EDB
Date Feb. 27, 2015
Sheet No. E503

Holiday Inn Express & Suites

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PANEL: **3D**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOMS
				SPARE		20	1	1	2	1	20	12	DOUBLE QUEEN 330 *	1.2			S							1.2
				SPARE		20	1	3	4	1	20	12	DOUBLE QUEEN 330		1.0		S							1.0
				SPARE		20	1	5	6	1	20	12	DOUBLE QUEEN 330			1.0	S							1.0
				SPARE		20	1	7	8	1	20	12	DOUBLE QUEEN 330	1.0			S							1.0
				SPARE		20	1	9	10	1	20	12	DOUBLE QUEEN 330		0.8		S							0.8
S			1.2	DOUBLE QUEEN 320 *	12	20	1	11	12	1	20	12	DOUBLE QUEEN 332 *			1.2	S							2.3
S	1.0			DOUBLE QUEEN 320	12	20	1	13	14	1	20	12	DOUBLE QUEEN 332	1.0			S							2.0
S		1.0		DOUBLE QUEEN 320	12	20	1	15	16	1	20	12	DOUBLE QUEEN 332		1.0		S							2.0
S			1.0	DOUBLE QUEEN 320	12	20	1	17	18	1	20	12	DOUBLE QUEEN 332			1.0	S							2.0
S	0.8			DOUBLE QUEEN 320	12	20	1	19	20	1	20	12	DOUBLE QUEEN 332	0.8			S							1.5
S		1.2		DOUBLE QUEEN 326 *	12	20	1	21	22	1	20	12	KING X 334 *		1.2		S							2.3
S			1.0	DOUBLE QUEEN 326	12	20	1	23	24	1	20	12	KING X 334			1.0	S							2.0
S	1.0			DOUBLE QUEEN 326	12	20	1	25	26	1	20	12	KING X 334	1.0			S							2.0
S		1.0		DOUBLE QUEEN 326	12	20	1	27	28	1	20	12	KING X 334		1.0		S							2.0
S			0.8	DOUBLE QUEEN 326	12	20	1	29	30	1	20	12	KING X 334			0.8	S							1.5
S	1.2			DOUBLE QUEEN 328 *	12	20	1	31	32	1			SPACE ONLY											1.2
S		1.0		DOUBLE QUEEN 328	12	20	1	33	34	1			SPACE ONLY											1.0
S			1.0	DOUBLE QUEEN 328	12	20	1	35	36	1			SPACE ONLY											1.0
S	1.0			DOUBLE QUEEN 328	12	20	1	37	38	1			SPACE ONLY											1.0
S		0.8		DOUBLE QUEEN 328	12	20	1	39	40	1			SPACE ONLY											0.8
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	4.9	4.9	4.9	SUBTOTALS										4.9	4.9	4.9								
													TOTALS			29.4				0	0	0	0	29.4

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	29.4	NEC	13.8
TOTAL	29.4		13.8

CALCULATIONS: 13.8 / 0.36 38.2 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

29400 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	3760.0
REMAINDER AT 30%	0
	13760

PANEL: **3E**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	0.9			CORRIDOR LIGHTS	12	20	1	1	2	1	20	12	RECEPTS - CORRIDOR	0.5			R	0.9	0.5					
L		1.1		CORRIDOR LIGHTS	12	20	1	3	4	1	20	12	RECEPTS - CORRIDOR		0.7		R	1.1	0.7					
L				SPARE		20	1	5	6	1	20	12	RECEPTS - CORRIDOR			0.5	R	0.0	0.5					
O	1.5			REC-ICE MACHINE *	12	20	1	7	8	1	20		SPARE										1.5	
				SPARE		20	1	9	10	1	20		SPARE											
				SPARE		20	1	11	12	1	20	12	FIRE/SMOKES **			0.5	O						0.5	
				SPARE		20	1	13	14	1	20		SPARE											
				SPARE		20	1	15	16	1	20	12	RECEPT-CATV **		1.0		O						1.0	
				SPARE		20	1	17	18	1	20	12	RECEPT-TB **			1.0	O						1.0	
				SPARE		20	1	19	20	1	20	12	FACP EXTENDER **	0.5			O						0.5	
M		0.1		EF-6	12	15	1	21	22	1	20		SPARE							0.1				
				SPARE		20	1	23	24	1	20		SPARE											
				SPARE		20	1	25	26	1	20		SPARE											
				SPARE		20	1	27	28	1	20		SPARE											
				SPARE		20	1	29	30	1	20		SPARE											
	2.4	1.2	0.0	SUBTOTALS										1.0	1.7	2.0								
													TOTALS			8.4		2.0	1.8	0.1			4.5	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	1.8	1.00	1.8
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.1	1.00	0.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
SPARE	0.0	1.00	0.0
TOTAL	8.4		8.9

CALCULATIONS: 8.9 / 0.36 24.7 A

NOTES:
1 ** - INDICATES BREAKER WITH LOCKING DEVICE
2 * - INDICATES GFCI RATED BREAKER

PANEL: **3F**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	2	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						3	4						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	5	6	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							7	8					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	9	10	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					11	12							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	13	14	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						15	16						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	17	18	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							19	20					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	21	22	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					23	24							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	25	26	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						27	28						1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	29	30	2	15	12	PTAC-A			1.5	H				2.9			
H	1.5							31	32					1.5			H				2.9			
H		1.5		PTAC-A	12	15	2	33	34	2	15	12	PTAC-A		1.5		H				2.9			
H			1.5					35	36							1.5	H				2.9			
H	1.5			PTAC-A	12	15	2	37	38	2	15	12	PTAC-A	1.5			H				2.9			
H		1.5						39	40						1.5		H				2.9			
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	10.3	10.3	8.8	SUBTOTALS										10.3	10.3	8.8								
													TOTALS			58.7		0	0	0	58.7	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	58.7	1.00	58.7
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	58.7		58.7

CALCULATIONS: 58.7 / 0.36 162.9 A

NOTES:

PANEL: **3G**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	3	1			SPACE ONLY								1.5			
H		1.5						3	5	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	5	7	1			SPACE ONLY								1.5			
H	1.5							7	9	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	9	11	1			SPACE ONLY								1.5			
H			1.5					11	13	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	13	15	1			SPACE ONLY								1.5			
H		1.5						15	17	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	17	19	1			SPACE ONLY								1.5			
H	1.5							19	21	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	21	23	1			SPACE ONLY								1.5			
H			1.5					23	25	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	25	27	1			SPACE ONLY								1.5			
H		1.5						27	29	1			SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	29	31	1			SPACE ONLY								1.5			
H	1.5							31	33	1			SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	33	35	1			SPACE ONLY								1.5			
H			1.5					35	37	1			SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	37	39	1			SPACE ONLY								1.5			
H		1.5						39	41	1			SPACE ONLY								1.5			
				SPACE ONLY			1	41	43	1			SPACE ONLY											
	10.3	10.3	8.8	SUBTOTALS										0.0	0.0	0.0								
													TOTALS			29.3		0	0.0	0	29.3	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	29.3	1.00	29.3
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	29.3		29.3

CALCULATIONS: 29.3 / 0.36 81.5 A

NOTES:

PANEL: **4DP**
120/208 VOLTS, 3 Ø 4 WIRE, TYPE: NQOD AIC: 42,000
SURFACE MOUNTED, PANEL SIZE 800A MAIN LUG ONLY AMPS 800A
BY: SHEET:
JOB #: OF:
CHECKED: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
	14.1													14.1				0.0	0	0	0	0	0	39.2
		13.3		PANEL 4A	3	100	3	1	2	3	100	3	PANEL 4B		13.3			0	0	0	0	0	0	39.2
			11.8													11.8								
	14.1													9.8						0	0	0	0	39.2
		13.3		PANEL 4C	3	100	3	3	4	3	100	3	PANEL 4D		9.8					0	0	0	0	29.4
			11.8													9.8								
	3.4													20.5				2.0	1.8	0.1			4.5	
		2.9		PANEL 4E	3	100	3	5	6	3	200	3/0	PANEL 4F		20.5			0	0	0	58.7	0	0	0
			2.0													17.6								
	19.4													10.3				0	1.3	59.1	0.0	0	0.0	0
		21.5		PANEL 4M	4/0	225	3	7	8	3	200	3/0	PANEL 4G		10.3			0	0.0	0	29.3	0	0	0
			19.4													8.8								
				SPARE		100	3	9	10	3			SPACE ONLY											
				SPACE ONLY			3	11	12	3			SPACE ONLY											
				SPACE ONLY			3	13	14	3			SPACE ONLY											
	51.0	51.0	45.1	SUBTOTALS										54.7	53.9	48.0								
													TOTALS			303.7		2.0	3.1	59.2	88.0		4.5	147.0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	3.1	1.00	3.1
RECEPTACLES	0.0	0.50	0.0
MOTORS	59.2	1.00	59.2
LARGEST MOTOR	0.0	1.75	0.0
HEAT	88.0	1.00	88.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
GUESTROOMS	147.0	NEC	60.8
TOTAL	303.7		218.0

CALCULATIONS: 218.0 / 0.36 605.6 A

NOTES:
1. DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

147,000 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	50800.0
REMAINDER AT 30%	0.0
	60800

PANEL: **4A**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING WIDE 403 *	12	20	1	1	2	1	20	12	HI KING SUITE 411 *	1.2			S							2.3
S		1.0		KING WIDE 403	12	20	1	3	4	1	20	12	HI KING SUITE 411		1.0		S							2.0
S			1.0	KING WIDE 403	12	20	1	5	6	1	20	12	HI KING SUITE 411			1.0	S							2.0
S	1.0			KING WIDE 403	12	20	1	7	8	1	20	12	HI KING SUITE 411	1.0			S							2.0
S		0.8		KING WIDE 403	12	20	1	9	10	1	20	12	HI KING SUITE 411		0.8		S							1.5
S			1.2	KING 405 *	12	20	1	11	12	1	20	12	KING SUITE 413 *			1.2	S							2.3
S	1.0			KING 405	12	20	1	13	14	1	20	12	KING SUITE 413	1.0			S							2.0
S		1.0		KING 405	12	20	1	15	16	1	20	12	KING SUITE 413		1.0		S							2.0
S			1.0	KING 405	12	20	1	17	18	1	20	12	KING SUITE 413			1.0	S							2.0
S	0.8			KING 405	12	20	1	19	20	1	20	12	KING SUITE 413	0.8			S							1.5
S		1.2		HI KING 407 *	12	20	1	21	22	1	20	12	KING SUITE 415 *		1.2		S							2.3
S			1.0	HI KING 407	12	20	1	23	24	1	20	12	KING SUITE 415			1.0	S							2.0
S	1.0			HI KING 407	12	20	1	25	26	1	20	12	KING SUITE 415	1.0			S							2.0
S		1.0		HI KING 407	12	20	1	27	28	1	20	12	KING SUITE 415		1.0		S							2.0
S			0.8	HI KING 407	12	20	1	29	30	1	20	12	KING SUITE 415			0.8	S							1.5
S	1.2			KING 409 *	12	20	1	31	32	1	20	12	KING 417 *	1.2			S							2.3
S		1.0		KING 409	12	20	1	33	34	1	20	12	KING 417		1.0		S							2.0
S			1.0	KING 409	12	20	1	35	36	1	20	12	KING 417			1.0	S							2.0
S	1.0			KING 409	12	20	1	37	38	1	20	12	KING 417	1.0			S							2.0
S		0.8		KING 409	12	20	1	39	40	1	20	12	KING 417		0.8		S							1.5
				SPARE		20	1	41	42	1	20		SPARE											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2		0.0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT RATED BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	7680.0
REMAINDER AT 30%	0
	17680

PANEL: **4B**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			KING 421 *	12	20	1	1	2	1	20	12	KING 429 *	1.2			S							2.3
S		1.0		KING 421	12	20	1	3	4	1	20	12	KING 429		1.0		S							2.0
S			1.0	KING 421	12	20	1	5	6	1	20	12	KING 429			1.0	S							2.0
S	1.0			KING 421	12	20	1	7	8	1	20	12	KING 429	1.0			S							2.0
S		0.8		KING 421	12	20	1	9	10	1	20	12	KING 429		0.8		S							1.5
S			1.2	KING 423 *	12	20	1	11	12	1	20	12	KING 431 *			1.2	S							2.3
S	1.0			KING 423	12	20	1	13	14	1	20	12	KING 431	1.0			S							2.0
S		1.0		KING 423	12	20	1	15	16	1	20	12	KING 431		1.0		S							2.0
S			1.0	KING 423	12	20	1	17	18	1	20	12	KING 431			1.0	S							2.0
S	0.8			KING 423	12	20	1	19	20	1	20	12	KING 431	0.8			S							1.5
S		1.2		KING 425 *	12	20	1	21	22	1	20	12	KING 433 *		1.2		S							2.3
S			1.0	KING 425	12	20	1	23	24	1	20	12	KING 433			1.0	S							2.0
S	1.0			KING 425	12	20	1	25	26	1	20	12	KING 433	1.0			S							2.0
S		1.0		KING 425	12	20	1	27	28	1	20	12	KING 433		1.0		S							2.0
S			0.8	KING 425	12	20	1	29	30	1	20	12	KING 433			0.8	S							1.5
S	1.2			KING 427 *	12	20	1	31	32	1	20	12	KING 435 *	1.2			S							2.3
S		1.0		KING 427	12	20	1	33	34	1	20	12	KING 435		1.0		S							2.0
S			1.0	KING 427	12	20	1	35	36	1	20	12	KING 435			1.0	S							2.0
S	1.0			KING 427	12	20	1	37	38	1	20	12	KING 435	1.0			S							2.0
S		0.8		KING 427	12	20	1	39	40	1	20	12	KING 435		0.8		S							1.5
				SPARE		20	1	41	42	1	20		SPARE											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2		0	0	0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER.
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	7680.0
REMAINDER AT 30%	0
	17680

PANEL: **4C**
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
S	1.2			DOUBLE QUEEN 404 *	12	20	1	1	2	1	20	12	DOUBLE QUEEN 412 *	1.2			S							2.3
S		1.0		DOUBLE QUEEN 404	12	20	1	3	4	1	20	12	DOUBLE QUEEN 412		1.0		S							2.0
S			1.0	DOUBLE QUEEN 404	12	20	1	5	6	1	20	12	DOUBLE QUEEN 412			1.0	S							2.0
S	1.0			DOUBLE QUEEN 404	12	20	1	7	8	1	20	12	DOUBLE QUEEN 412	1.0			S							2.0
S		0.8		DOUBLE QUEEN 404	12	20	1	9	10	1	20	12	DOUBLE QUEEN 412		0.8		S							1.5
S			1.2	DOUBLE QUEEN 406 *	12	20	1	11	12	1	20	12	ACC DBL QUEEN 414 *			1.2	S							2.3
S	1.0			DOUBLE QUEEN 406	12	20	1	13	14	1	20	12	ACC DBL QUEEN 414	1.0			S							2.0
S		1.0		DOUBLE QUEEN 406	12	20	1	15	16	1	20	12	ACC DBL QUEEN 414		1.0		S							2.0
S			1.0	DOUBLE QUEEN 406	12	20	1	17	18	1	20	12	ACC DBL QUEEN 414			1.0	S							2.0
S	0.8			DOUBLE QUEEN 406	12	20	1	19	20	1	20	12	ACC DBL QUEEN 414	0.8			S							1.5
S		1.2		DOUBLE QUEEN 408 *	12	20	1	21	22	1	20	12	DBL QUEEN STE 416 *		1.2		S							2.3
S			1.0	DOUBLE QUEEN 408	12	20	1	23	24	1	20	12	DBL QUEEN STE 416			1.0	S							2.0
S	1.0			DOUBLE QUEEN 408	12	20	1	25	26	1	20	12	DBL QUEEN STE 416	1.0			S							2.0
S		1.0		DOUBLE QUEEN 408	12	20	1	27	28	1	20	12	DBL QUEEN STE 416		1.0		S							2.0
S			0.8	DOUBLE QUEEN 408	12	20	1	29	30	1	20	12	DBL QUEEN STE 418 *			0.8	S							1.5
S	1.2			HI DOUB. QUEEN 410 *	12	20	1	31	32	1	20	12	DBL QUEEN STE 418	1.2			S							2.3
S		1.0		HI DOUB. QUEEN 410	12	20	1	33	34	1	20	12	DBL QUEEN STE 418		1.0		S							2.0
S			1.0	HI DOUB. QUEEN 410	12	20	1	35	36	1	20	12	DBL QUEEN STE 418			1.0	S							2.0
S	1.0			HI DOUB. QUEEN 410	12	20	1	37	38	1	20	12	DBL QUEEN STE 418	1.0			S							2.0
S		0.8		HI DOUB. QUEEN 410	12	20	1	39	40	1	20	12	DBL QUEEN STE 418		0.8		S							1.5
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	7.1	6.7	5.9	SUBTOTALS										7.1	6.7	5.9								
													TOTALS			39.2				0	0	0	0	39.2

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	39.2	NEC	17.7
TOTAL	39.2		17.7

CALCULATIONS: 17.7 / 0.36 49.1 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

39200 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	7680.0
REMAINDER AT 30%	0
	17680

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REVISIONS

No.	Date	Description
1		

EDWIN DEAN BELK
20706
Edwin Dean Belk
2/27/2015

KEY PLAN

3D	3E	3F
3G	DP4	4A
4B	4C	—

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL PANEL SCHEDULES

Phase
Construction Documents

Project No.	14-081	Sheet No. E504
Prepared by	MAH	
Checked by	EDB	
Date	Feb. 27, 2015	

Holiday Inn Express & Suites

PANEL: 4D

120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
				SPARE	20	1	1	2	1	20	12	DOUBLE QUEEN 430 *	12	20	1	1.2			S							1.2
				SPARE	20	1	3	4	1	20	12	DOUBLE QUEEN 430					1.0		S							1.0
				SPARE	20	1	5	6	1	20	12	DOUBLE QUEEN 430						1.0	S							1.0
				SPARE	20	1	7	8	1	20	12	DOUBLE QUEEN 430				1.0			S							1.0
				SPARE	20	1	9	10	1	20	12	DOUBLE QUEEN 430					0.8		S							0.8
S			1.2	DOUBLE QUEEN 420 *	12	20	1	11	12	1	20	12	DOUBLE QUEEN 432 *	12	20	1			1.2	S							2.3
S	1.0			DOUBLE QUEEN 420	12	20	1	13	14	1	20	12	DOUBLE QUEEN 432				1.0			S							2.0
S		1.0		DOUBLE QUEEN 420	12	20	1	15	16	1	20	12	DOUBLE QUEEN 432					1.0		S							2.0
S			1.0	DOUBLE QUEEN 420	12	20	1	17	18	1	20	12	DOUBLE QUEEN 432						1.0	S							2.0
S	0.8			DOUBLE QUEEN 420	12	20	1	19	20	1	20	12	DOUBLE QUEEN 432	0.8						S							1.5
S		1.2		DOUBLE QUEEN 426 *	12	20	1	21	22	1	20	12	KING X 434 *		1.2					S							2.3
S			1.0	DOUBLE QUEEN 426	12	20	1	23	24	1	20	12	KING X 434					1.0		S							2.0
S	1.0			DOUBLE QUEEN 426	12	20	1	25	26	1	20	12	KING X 434	1.0						S							2.0
S		1.0		DOUBLE QUEEN 426	12	20	1	27	28	1	20	12	KING X 434		1.0					S							2.0
S			0.8	DOUBLE QUEEN 426	12	20	1	29	30	1	20	12	KING X 434					0.8		S							1.5
S	1.2			DOUBLE QUEEN 428 *	12	20	1	31	32	1			SPACE ONLY														1.2
S		1.0		DOUBLE QUEEN 428	12	20	1	33	34	1			SPACE ONLY														1.0
S			1.0	DOUBLE QUEEN 428	12	20	1	35	36	1			SPACE ONLY														1.0
S	1.0			DOUBLE QUEEN 428	12	20	1	37	38	1			SPACE ONLY														1.0
S		0.8		DOUBLE QUEEN 428	12	20	1	39	40	1			SPACE ONLY														0.8
				SPACE ONLY			1	41	42	1			SPACE ONLY														
	4.9	4.9	4.9	SUBTOTALS									SUBTOTALS				4.9	4.9	4.9								
				TOTALS									TOTALS						29.4			0	0	0	0	0	29.4

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
GUESTROOMS	29.4	NEC	13.8
TOTAL	29.4		13.8

CALCULATIONS: 13.8 / 0.36 38.2 A

NOTES:
1 * - INDICATES ARC FAULT BREAKER
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42

29400 FIRST 20000 AT 50%	10000.0
UP TO 100,000 AT 40%	3760.0
REMAINDER AT 30%	0
	13760

PANEL: 4E

120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 100 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 100
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	0.9			CORRIDOR LIGHTS	12	20	1	1	2	1	20	12	RECEPTS - CORRIDOR	0.5			R	0.9	0.5							
L		1.1		CORRIDOR LIGHTS	12	20	1	3	4	1	20	12	RECEPTS - CORRIDOR		0.7		R	1.1	0.7							
				SPARE		20	1	5	6	1	20	12	RECEPTS - CORRIDOR			0.5	R		0.5							
O	1.5			REC-KOE MACHINE *	12	20	1	7	8	1	20		SPARE												1.5	
M		0.1		EF-6	12	15	1	9	10	1	20		SPARE										0.1			
				SPARE		20	1	11	12	1	20	12	FIRE/SMOKES **			0.5	O							0.5	
				SPARE		20	1	13	14	1	20		SPARE													
				SPARE		20	1	15	16	1	20	12	RECEPT-CATV **		1.0		O							1.0	
				SPARE		20	1	17	18	1	20	12	RECEPT-TB **			1.0	O							1.0	
				SPARE		20	1	19	20	1	20	12	FACP EXTENDER **	0.5			O							0.5	
				SPARE		20	1	21	22	1	20		SPARE													
				SPARE		20	1	23	24	1	20		SPARE													
				SPARE		20	1	25	26	1	20		SPARE													
				SPARE		20	1	27	28	1	20		SPARE													
				SPARE		20	1	29	30	1	20		SPARE													
	2.4	1.2	0.0	SUBTOTALS									SUBTOTALS				1.0	1.7	2.0							
				TOTALS									TOTALS						8.4		2.0	1.8	0.1			4.5

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	2.0	1.25	2.5
RECEPTACLES	1.8	1.00	1.8
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.1	1.00	0.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	4.5	1.00	4.5
SPARE	0.0	1.00	0.0
TOTAL	8.4		8.9

CALCULATIONS: 8.9 / 0.36 24.7 A

NOTES:
1 ** - INDICATES BREAKER WITH LOCKING DEVICE.
2 * - INDICATES GFCI RATED BREAKER.

PANEL: 4F

120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	2	2	15	12	PTAC-A	1.5			H							2.9			
H		1.5						3	4								1.5		H				2.9			
H			1.5	PTAC-A	12	15	2	5	6	2	15	12	PTAC-A			1.5	H							2.9			
H	1.5							7	8					1.5					H				2.9			
H		1.5		PTAC-A	12	15	2	9	10	2	15	12	PTAC-A		1.5		H							2.9			
H			1.5					11	12							1.5	H							2.9			
H	1.5			PTAC-A	12	15	2	13	14	2	15	12	PTAC-A	1.5			H							2.9			
H		1.5						15	16						1.5		H							2.9			
H			1.5	PTAC-A	12	15	2	17	18	2	15	12	PTAC-A			1.5	H							2.9			
H	1.5							19	20					1.5			H							2.9			
H		1.5		PTAC-A	12	15	2	21	22	2	15	12	PTAC-A		1.5		H							2.9			
H			1.5					23	24							1.5	H							2.9			
H	1.5			PTAC-A	12	15	2	25	26	2	15	12	PTAC-A	1.5			H							2.9			
H		1.5						27	28						1.5		H							2.9			
H	1.5							31	32					1.5			H							2.9			
H		1.5		PTAC-A	12	15	2	33	34	2	15	12	PTAC-A		1.5		H							2.9			
H			1.5					35	36							1.5	H							2.9			
H	1.5			PTAC-A	12	15	2	37	38	2	15	12	PTAC-A	1.5			H							2.9			
H		1.5						39	40						1.5		H							2.9			
	10.3	10.3	8.8	SPACE ONLY			1	41	42	1			SPACE ONLY														
				SUBTOTALS									SUBTOTALS				10.3	10.3	8.8							
				TOTALS									TOTALS						58.7		0	0	0	58.7	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	58.7	1.00	58.7
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	58.7		58.7

CALCULATIONS: 58.7 / 0.36 162.9 A

NOTES:

PANEL: 4G

120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 22,000
SURFACE MOUNTED, 200 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 200
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	FRAME SIZE	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
H	1.5			PTAC-A	12	15	2	1	3	1		SPACE ONLY								1.5			
H		1.5						3	5	1		SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	5	7	1		SPACE ONLY								1.5			
H	1.5							7	9	1		SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	9	11	1		SPACE ONLY								1.5			
H			1.5					11	13	1		SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	13	15	1		SPACE ONLY								1.5			
H		1.5						15	17	1		SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	17	19	1		SPACE ONLY								1.5			
H	1.5							19	21	1		SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	21	23	1		SPACE ONLY								1.5			
H			1.5					23	25	1		SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	25	27	1		SPACE ONLY								1.5			
H		1.5						27	29	1		SPACE ONLY								1.5			
H			1.5	PTAC-A	12	15	2	29	31	1		SPACE ONLY								1.5			
H	1.5							31	33	1		SPACE ONLY								1.5			
H		1.5		PTAC-A	12	15	2	33	35	1		SPACE ONLY								1.5			
H			1.5					35	37	1		SPACE ONLY								1.5			
H	1.5			PTAC-A	12	15	2	37	39	1		SPACE ONLY								1.5			
H		1.5						39	41	1		SPACE ONLY								1.5			
				SPACE ONLY				1	41	43	1	SPACE ONLY											
	10.3	10.3	8.8	SUBTOTALS								SUBTOTALS	0.0	0.0	0.0								
				TOTALS								TOTALS			29.3		0	0.0	0	29.3	0	0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	29.3	1.00	29.3
KITCHEN	0	0.65	0.0
OTHER	0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	29.3		29.3

CALCULATIONS: 29.3 / 0.36 81.5 A

NOTES:

PANEL: 4M

120/208 V OLT: 3 ∅ 4 WIRE, TYPE: NQOD AIC: 42,000
SURFACE MOUNTED, 225 AMP MAIN LUG ONLY NEUTRAL SIZE AMPS 225
BY: SHEET:
JOB #: OF:
CHECKED BY: DB DATE: 2/27/2015

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.				REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
M	2.7			HP-1	8	45	2	1	2	2	15	12	SSO-1	1.5			M			4.2				
M		2.7						3	4					1.5		M			4.2				
M			0.9	HP-2	12	15	2	5	6	2	15	12	SSO-2		1.5		M			2.4				
M	0.9							7	8							1.5	M			2.4				
M		3.5		HP-3	6	60	2	9	10	2	15	12	SSO-3		1.5		M			5.0				
M			3.5					11	12							1.5	M			5.0				
M	0.9			HP-4	12	15	2	13	14	1	20		SPARE							0.9				
M		0.9						15	16	1	20		SPARE							0.9				
M			1.6	HP-5	10	25	2	17	18	1	20		SPARE							1.6				
M	1.6							19	20	1	20		SPARE							1.6				
M		1.9		HP-6	10	30	2	21	22	1			SPACE ONLY							1.9				
M			1.9					23	24	1			SPACE ONLY							1.9				
M	2.7			HP-7	8	45	2	25	26	1			SPACE ONLY							2.7				
M		2.7						27	28	1			SPACE ONLY							2.7				
M			1.6	HP-8	10	25	2	29	30	1			SPACE ONLY							1.6				
M	1.6							31	32	1			SPACE ONLY							1.6				
R		0.7		ROOF RECEPTS.	12	20	1	33	34	1			SPACE ONLY						0.7					
R			0.5	ROOF RECEPTS.	12	20	1	35	36	1			SPACE ONLY						0.5					
				SPARE		20	1	37	38					6.1			M			6.1				
				SPARE		20	1	39	40	3	60	6	MUA-1		6.1		M			6.1				
M			0.4	DAMPERS	12	20	1	41	42							6.1	M			6.5				
	10.4	12.5	10.4	SUBTOTALS									SUBTOTALS	9.0	9.0	9.0								
				TOTALS									TOTALS			60.4		0	1.3	59.1	0.0	0	0.0	0

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0	1.25	0.0
RECEPTACLES	1.3	1.00	1.3
RECEPTACLES	0.0	0.50	0.0
MOTORS	59.1	1.00	59.1
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0	0.65	0.0
OTHER	0.0	1.00	0.0
SPARE	0	1.00	0.0
TOTAL	60.4		60.4

CALCULATIONS: 60.4 / 0.36 167.7 A

NOTES:
1 * - COORDINATE REQUIREMENTS WITH SIGN VENDOR PRIOR TO ROUGH IN. PROVIDE AND INSTALL CONTACTOR FOR BUILDING MOUNTED SIGN LIGHTING. CONTACTOR CONTROLED BY TIME CLOCK.

4D	4E	4F
4G	4M	–
–	–	–

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REVISIONS		
No.	Date	Description
1		

EDWIN DEAN SIKES
REGISTERED PROFESSIONAL
ENGINEER
20706
STATE OF MISSISSIPPI
2/27/2015

KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title
ELECTRICAL PANEL SCHEDULES

Phase
Construction Documents

Project No. 14-081	Sheet No. E505
Prepared by MAH	
Checked by EDB	
Date Feb. 27, 2015	

Holiday Inn Express & Suites