LOWER LEVEL - SOUTH EAST

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR TRANSITIONS, OFFSETS, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTOR
B, BOTT	BOTTOM	SP-M	SPIN-IN FITTING
C, CP	CENTERLINE	SQ	SQUARE
CL, CPL	CEILING	SP	STATIC PRESSURE
CONN	DUCTMATE CONNECTOR	T	TOP
DM	DUCTMATE	TDC	TRANSVERSE DUCT CONNECTOR
F, FTM	FLANGE TO MATCH	TG	TURNING GUIDES
FI	FLANGE IN	TRANS	TRANSITION FITTING
FO	FLANGE OUT	TV	TURNING VANES
FOM	FLAT ON MINIMUM	V	VERTICAL
FOS	FLAT ON SIDE	VD	VOLUME DAMPER
FOT	FLAT ON TOP	W	WITH
H	HORIZONTAL	WG	WITH GAUGE
M	MIDDLE	MI	MALE INDICATOR
OS	OFFSET	FI	FEMALE INDICATOR
R	RADIUS		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH DIAL OR QUADRANT TYPE REGULATOR
	MOTORIZED VOLUME DAMPER CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO. INDICATOR
	SLOPE DIRECTION OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
28A	+2" WG SUPPLY DUCTWORK	W/S 1-26	5-25-10
28B	+2" WG EXHAUST DUCTWORK	W/S 1-2	5-25-10
28C	+2" WG SUPPLY DUCTWORK	W/S 1-7	5-25-10
28P	+2" WG PURCHASED ROUND DUCTWORK	W/S 1-3	5-25-10
28D	FLOOR SUPPORTS	W/S 1-1	5-25-10
28E	REVISED FCU FITTINGS	W/S 1-2	5-14-11
28F	NEW SCREEN FOR GENERATOR	W/S 1-2	5-24-11
28AC	ASRCAUS PCS 1-3		6-9-11

REVISIONS

NO.	DESCRIPTION	DATE
14	AS-BUILT RECORD DRAWING	5-4-12

HARRIS & HART INC.
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E-MAIL TO DETAILING DEPARTMENT:
ttaylor@harris-hart.com

JOB NO: 9507 PAY ITEM: 28

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA A
HVAC SYSTEM LAYOUT

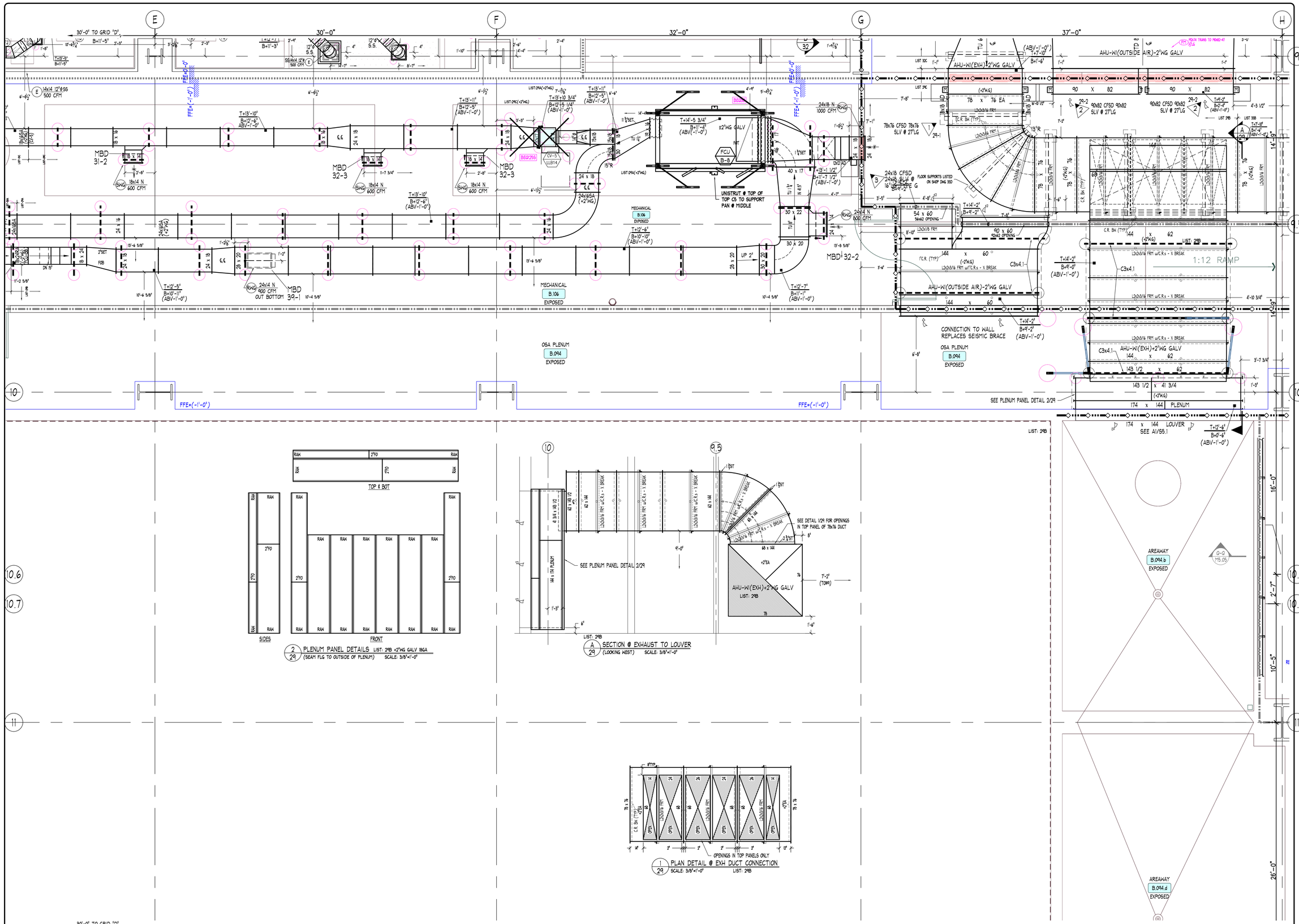
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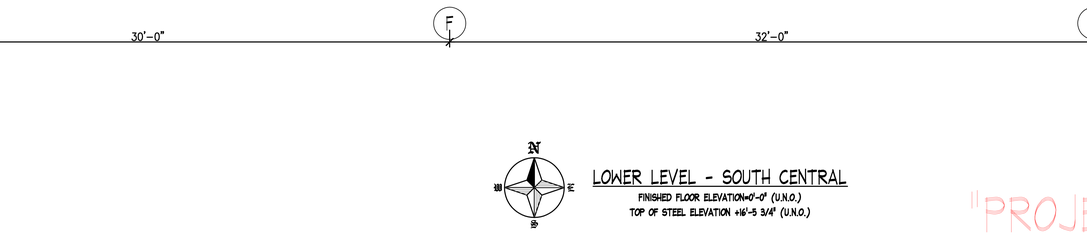
BY: R.F.
DATE: 1-27-10
SCALE: 3/8"=1'-0"

DRAWING NO.
28 OF 115

28P +2" W.G. PURCHASED ROUND NO'S 1-3

42	43		
41	40		
37	38	NIC	
36	35	39	
34			
31	32	33	
30	29	28	





2/29 PLENUM PANEL DETAILS LIST: 29B +2"WG GALV 18GA
(SEAM FLG TO OUTSIDE OF PLENUM) SCALE: 3/8"=1'-0"

A/29 SECTION @ EXHAUST TO LOUVER
(LOOKING WEST) SCALE: 3/8"=1'-0"

1/29 PLAN DETAIL @ EXH DUCT CONNECTION
SCALE: 3/8"=1'-0" LIST: 29B

NOTES

1. LEGENDS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR TRANSVERSE CONNECTORS, REINFORCING, AND INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S	SLOPE
B, BOTT	BOTTOM	S&P	SPIN-IN FITTING
C, CEN	CENTERLINE	SCV	SLIDE VOLUME DAMPER
D, DN	DOWN	SV	SLIDE VALVE
DM	DUCTMATE CONNECTOR	T	TOP
F, FTM	FEMALE	TDC	TRANSVERSE DUCT CONNECTOR
FD	FIRE DAMPER	TF	TRANSITION FITTING
FI	FLANGE IN	TRANS	TRANSITION
FO	FLANGE OUT	TV	TURNING VANES
FOB	FLAT ON BOTTOM	U	UP
FOS	FLAT ON SIDE	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WIDTH / GAGE
M	MALE	WG	WATER GAUGE
MS	MITER SHEET	WI	WATER INDICATOR
R	RADIUS	(*)	FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER W/ ACCESS DOOR
	FIRE/SMOKE DAMPER W/ACCESS DOOR
	MANUAL VOLUME DAMPER WITH DIAL
	OPPOSED BLADE DAMPER
	MANUAL VOLUME DAMPER W/ QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER W/ LOCKING QUADRANT REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS DOOR
	DUCTWORK PIECE NO.
	INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT
	SMOKE DETECTOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
29A	+2"WG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES 7CS-1/2	7-14-10
29B	+2"WG RETURN, OUTSIDE & EXHAUST AIR DUCTWORK 7CS-1/2	7-14-10
29C	+2"WG SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES 7CS-1/2	7-14-10
29D	+2"WG OA DUCT REFERED TO 5'-1"#	3-5-11
29E	+2"WG GALV 11-2, 2"WG 3-4	3-5-11

REVISIONS

NO.	DESCRIPTION	DATE
7	AS-BUILT RECORD DRAWING	5-2-12

HARRIS & HART INC.
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E-MAIL TO DETAILING DEPARTMENT:
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JOB NO: 9507 PAY ITEM: 29

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA B
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.0B STRUCT: S2.1A&B MECH:M3.0B

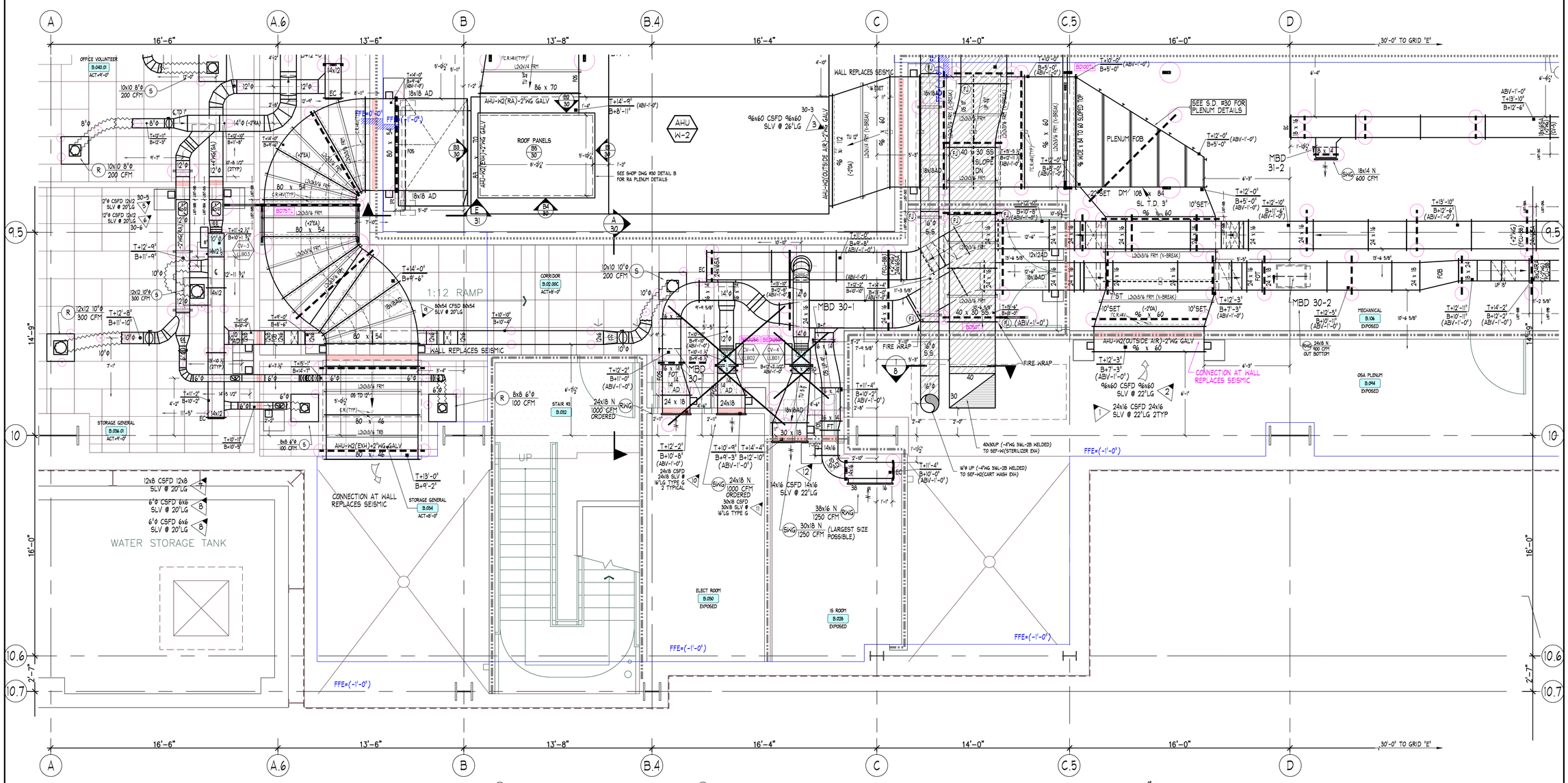
BY: B.P.
DATE: 1-27-10
SCALE: 3/8"=1'-0"

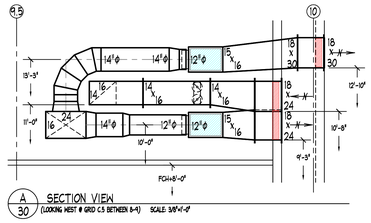
DRAWING NO.
29 OF 115

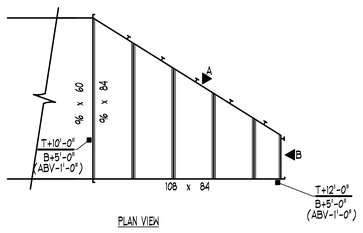
LOWER LEVEL - SOUTH CENTRAL
FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

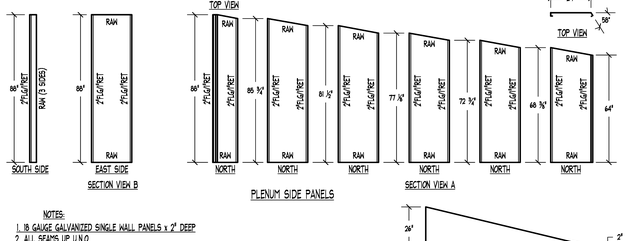
Key Plan N.T.S.







PLAN VIEW

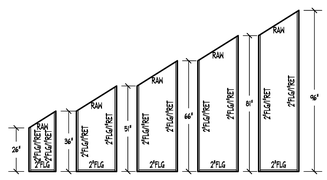


SECTION VIEW B

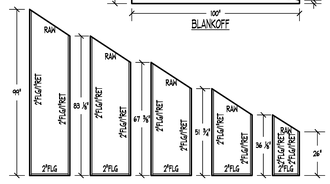
PLENUM SIDE PANELS

SECTION VIEW A

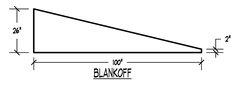
NOTES:
1. 18 GAUGE GALVANIZED SINGLE WALL PANELS x 2" DEEP
2. ALL SEAMS UP U.N.O.



PLENUM BOTTOM PANELS



PLENUM TOP- PANELS

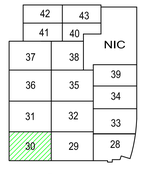




B 30 AHU-W2 RETURN AIR PLENUM PANELS DETAILS — LIST: 31G PCS: 1-7
CONSTRUCTION: -2"WG GALV (18GA GALV U.N.O.) 2"DEEP SINGLE WALL PANELS (SEAMS FORM UP)

N
LOWER LEVEL - SOUTH WEST
FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"



Key Plan

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR TRANSITIONS, OFFSETS, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTOR
B, BOTT	BOTTOM	STSP	STEEL SPIN-IN FITTING
D, DN	DOWN	SV	SQUARE VANE
DM	DUCTMATE CONNECTOR	SP	STATIC PRESSURE
EXH, FSM	EXHAUST, FIRE SMOKE DAMPER	T	TOP
FD	FIRE DAMPER	TDC	TRANSVERSE DUCT CONNECTION
FI	FLANGE IN	TH	THROAT
FO	FLANGE OUT	TRANS	TRANSITION FITTING
FOS	FLANGE ON SIDE	TV	TURNING VANES
FOT	FLAT ON TOP	U	UP
FOB	FLAT ON BOTTOM	V	VERTICAL
GV	GRILLE/VENT	VD	VOLUME DAMPER
M	MANUAL VOLUME DAMPER WITH DIAL	W	WALL
MVD	MANUAL VOLUME DAMPER WITH REMOTE DIAL	WG	WATER GAUGE
OFFSET	CEILING MOUNTED CONCEALED REGULATOR	WI	WALL INDICATOR
RADIUS	MOTORIZED DAMPER	⇉	FEMALE INDICATOR
		⇇	MALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION
FSD/SMOKE DAMPER NO.	FSD/SMOKE DAMPER NO.
MVD	MANUAL VOLUME DAMPER WITH DIAL
MVD-RM	MANUAL VOLUME DAMPER WITH REMOTE DIAL
CVR	CEILING MOUNTED CONCEALED REGULATOR
M	MOTORIZED DAMPER
AD	ACCESS PLATE
DUCTWORK PIECE NO.	DUCTWORK ACCESS DOOR OR ACCESS PLATE
24x18 N 600 CFM OUT BOTTOM	24x18 N 600 CFM OUT BOTTOM
7'-0 / 8'-0	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
30A	-4"WG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PCS=1-4	6-28-10
30B	-2"WG RA, OA & EA DUCTWORK PCS=1-37	6-28-10
30C	-2"WG SUPPLY AIR DUCTWORK DWNSTREAM OF BOXES PCS=1-13	6-28-10
31G	-2"WG 18GA GALV SINGLE WALL RA PLENUM PANELS PCS: 1-7	6-14-11
30P	PURCHASED SPIRAL & DUCTWORK PCS=P-25P	6-28-10
30AC	AIRCARE PCS: 1-6	6-15-11

REVISIONS

NO.	DESCRIPTION	DATE
9	AS-BUILT RECORD DRAWING	6-28-10

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JOB NO: 9507 PAY ITEM: 30

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA C
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.0C STRUCT: S2.1B MECH:M3.0C

BY: CRP
DRAWING NO.
DATE: 1-27-10
30 OF 115
SCALE: 3/8"=1'-0"

NOTES

1. ELEVATIONS INDICATED ON THE DRAWING ARE FINISHED FLOOR ELEVATIONS. ADJUSTMENTS MADE FOR TRANSVERSE CONNECTORS, REINFORCING AND EXTERIOR INSULATION WHEN CONSTRUCTION CONDITIONS REQUIRE.

ABBREVIATIONS

ACCESS DOOR/ ACCESS PLATE	AD	6 SPIRIC CONNECTION	6
BOTTOM	B	90° ELBOW FITTING	90
CENTERLINE	℄	SLEEVE	SLV
DIAMETER	Ø	STATIC PRESSURE	SP
DOWN	DN	TEMPERATURE	T
FLEXIBLE DUCT CONNECTION	FDC	TRANSVERSE DUCT CONNECTION	TDC
FURNACE	F	THROAT	TH
FIRE DAMPER	FD	TRANSITION FITTING	TRANS
FURNACE IN	FI	TURNING VANES	TV
FURNACE OUT	FO	UP	U
FLAT ON BOTTOM	FOB	VERTICAL	V
FLAT ON SIDE	FOS	VOLUME DAMPER WITH	VD
FLAT ON TOP	FOT	WITH	W
HORIZONTAL	H	WATER GAUGE	WG
INSIDE	IN	WALL REGISTER	WR
OFFSET	OFFSET	WALL REGISTER	WR
RISING	R		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION
	SMOKE/SMOKE DAMPER W/O FUSIBLE LINK
	SMOKE/SMOKE DAMPER W/O FUSIBLE LINK OR EQUIPMENT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH QUADRANT TYPE REGULATOR
	CEILING MOUNTED CONCEALED REGULATOR
	APPROVED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION
3IA	#14 G. SUPPLY AIR DUCTWORK UPSTREAM OF BOOS PCS-31
3IB	#14", 3'-1" & #24 G. RA, EA & OA DUCTWORK PCS-143
3IC	#24 G. SUPPLY AIR DUCTWORK DNSTREAM OF BOOS PCS-70
3ID	WELDED STAINLESS STEEL EXHAUST PCS-47
FM-4	#24 G. GALV PCI. #24 G. GALV PCI. DUCTWORK
3IE	GUAGED FITTINGS
FDP3A	PURCHASED SPIRAL & DUCTWORK
3IF	#24 G. WELDED EXHAUST AIR DUCTWORK PCS-3
3IG	#12" #16 G. RETURN PLENUM (1440×90) E BSH VDS (1), B-12
3IAC	#26 GAS FLEX. (14"Ø-6'-7")

REVISIONS

NO.	DESCRIPTION	DATE
1	AS-BUILT RECORD DRAWING	5-2-12

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JOB NO: 9507 PAY ITEM: 31

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA D
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.00 STRUCT: S2.1B MECH:M3.00

BY: CRP DRAWING NO.: 31 OF 115

DATE: 1-27-10

SCALE: 3/8"=1'-0"

LOWER LEVEL - SOUTH WEST

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

42	43	
41	40	NIC
37	38	39
36	35	34
31	32	33
30	29	28

Key Plan

A 31 SECTION VIEW (LOOKING WEST @ GRID C.5 BETWEEN 3-4) SCALE: 3/8"=1'-0"

B 31 SECTION VIEW (LOOKING EAST GRIDS C.5 BETWEEN 7-8) SCALE: 3/8"=1'-0"

C 31 SECTION VIEW @ DISHWASHER EXH (RM. B.004.00.E) (LOOKING WEST TOWARD GRID D) SCALE: 3/8" = 1'-0"

LOWER LEVEL - SOUTH CENTRAL

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE BOTTOM OF DUCT UNLESS OTHERWISE NOTED. MAKE FOR TRANSVERSE CONNECTORS, REINFORCING AND EXTERIOR INSULATION WHEN CONFORMING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S-DRIVE CONNECTION & DRIVE CLEAT
B, BOTT	BOTTOM	SA	SUPPLY AIR
℄	CENTERLINE	SL	SLEEVE
D, DN	DOWN	SP	STATIC PRESSURE
DC	DUCTWORK CONNECTOR	T	TRANSVERSE DUCT CONNECTOR
F, FEM	FEMALE	TH	THROAT
FD	FIRE DAMPER	TR	TRANSITION FITTING
FJ	FLANGE JOINT	TRANS	TRANSITION
FOB	FLAT ON BOTTOM	U	UP
FOS	FLAT ON SIDE	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WITH
MALE	MALE	WG	WATER GAUGE
OFFSET	OFFSET	↑	MALE INDICATOR
PAIRS	PAIRS	↓	FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	SMOKE DAMPER WITH SPRING OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

NO.	DESCRIPTION	DATE
9	AS-BUILT RECORD DRAWING	9-4-12

MATERIAL LISTS

NO.	DESCRIPTION	DATE
30A	4"W.G. SUPPLY AIR DUCTWORK UPSTREAM OF BOXES	7-14-10
30B	14" F.V. W.G. RETURN, OUTSIDE, TUNNER & EXHAUST AIR DUCTWORK	7-14-10
30C	+2"W.G. SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES	7-14-10
30D	STAINLESS STEEL FULL WELD EXHAUST	7-14-10
30E	STAINLESS STEEL FULL WELD EXHAUST CO WI	1-31-11
30F	CO WI ADDED GALV DUCTWORK	1-31-11
30F	PURCHASED SPIRAL & DUCTWORK	7-14-10
30F-ADD	PURCHASED SPIRAL & DUCTWORK	1-31-11
FM-4	CONDUIT FROM PCS 3-4	2-21-11
30AC	ANCHORS PCS 1-4 & 3-4	8-15-11

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JOB NO: 9507 PAY ITEM: 32

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

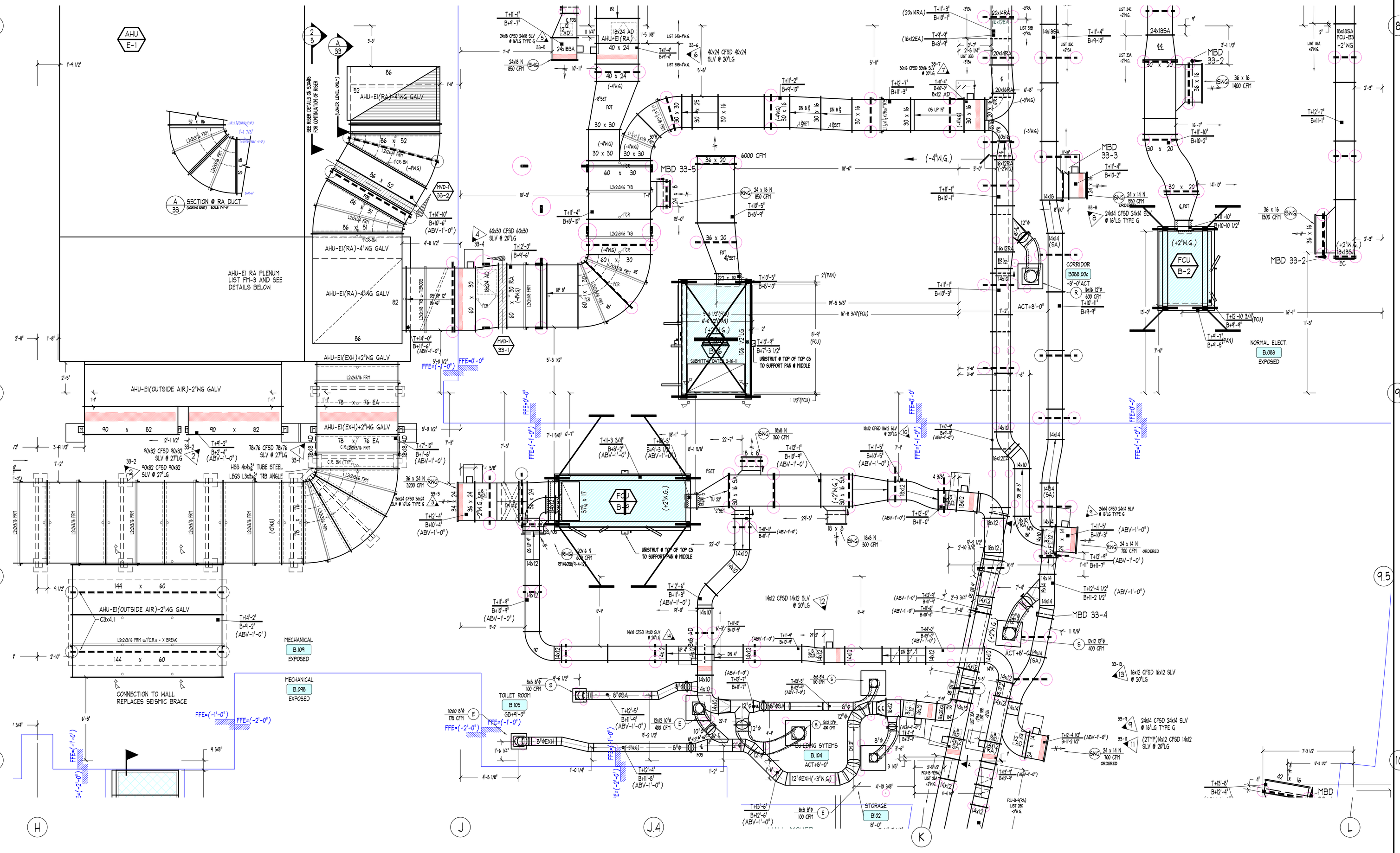
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LOWER LEVEL AREA E
HVAC SYSTEM LAYOUT

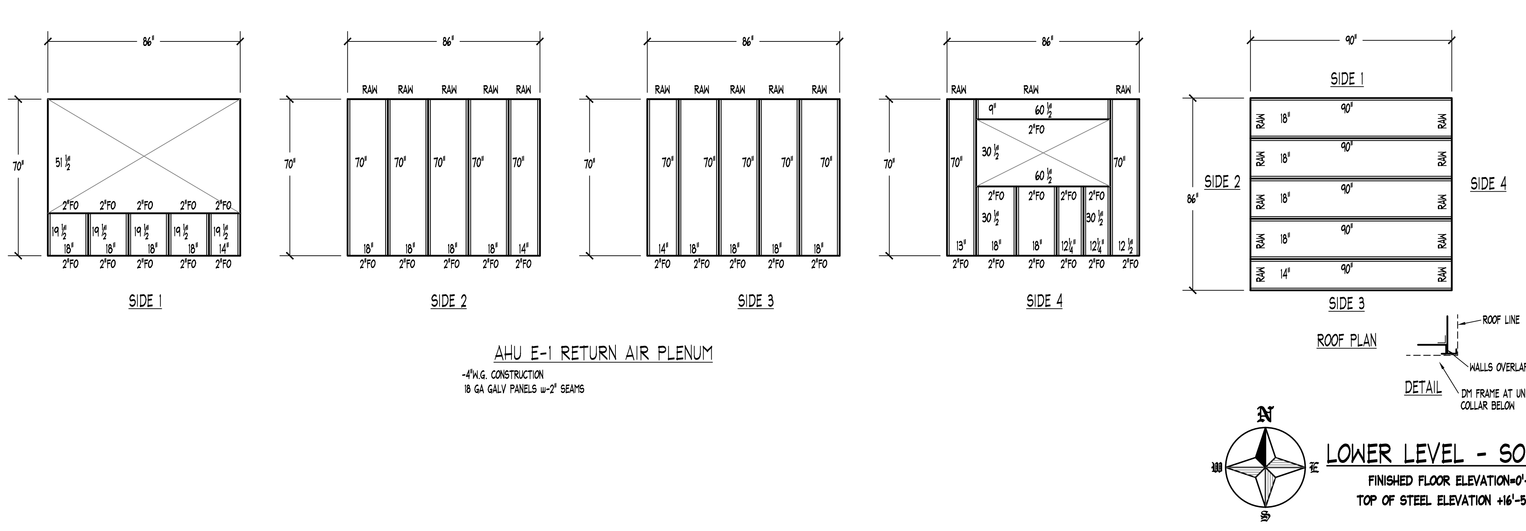
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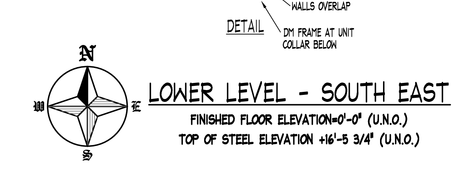
BY: B.P.
DATE: 1-27-10
SCALE: 3/8"=1'-0"

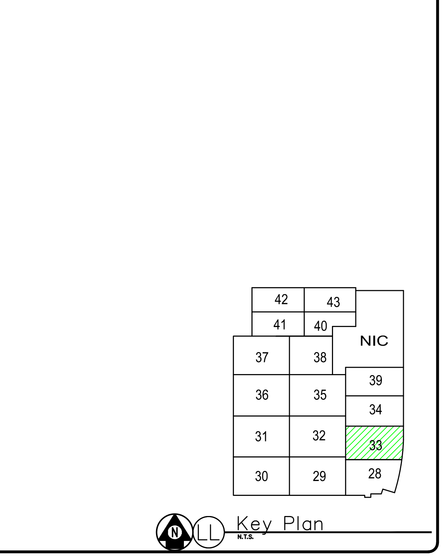
DRAWING NO.
32 OF 115

Key Plan N.T.S.









"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT ROOF. ALLOWANCES MUST BE MADE FOR DUCT DEPTH, SLOPES, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

ACCESS DOOR	AD	S & D DRVC CONNECTOR	S & D
ACCESS PLATE	AP	SPLIT FLEX FITTING	SFF
CENTERLINE	℄	SLEEVE	SLV
DOWN	D, DN	STATIC PRESSURE	SP
DUCTMATE CONNECTOR	DM	TOP	T
DUCTMATE	DM	TRANSVERSE DUCT CONNECTOR	TDC
FIRE DAMPER	FD	THROAT	TH
FLANGE IN	FI	TRANSITION FITTING	TRANS
FLAT OVAL	FOV	TURNING VANES	TV
FLAT ON BOTTOM	FOB	UP	U
FLAT ON SIDE	FOS	VERTICAL	V
FLAT ON TOP	FOT	VOLUME DAMPER	VD
FLEX DUCTWORK	FLEX	WATER GAUGE	WG
INCHES	"	WALL INDICATOR	WI
OFFSET	OS	FEMALE INDICATOR	<>
RISE	R		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION
	FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH DUAL BLADES AND LOCKING QUADRANT
	MANUAL VOLUME DAMPER WITH SINGLE BLADE
	CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	DUCT SIZE
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

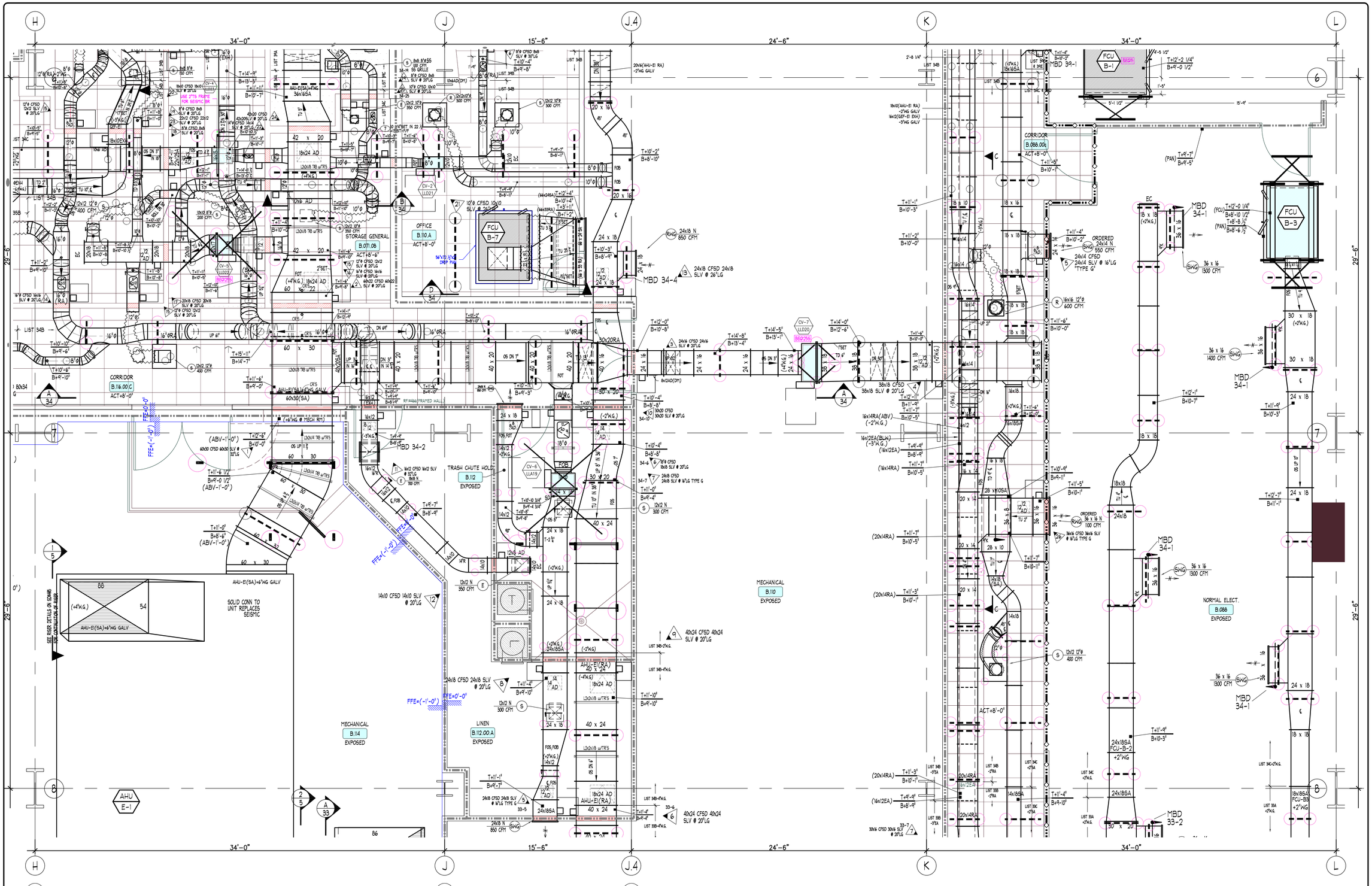
NO.	DATE	DESCRIPTION
11	5-2-12	AS-BUILT RECORD DRAWING
12	6-4-12	AS-BUILT RECORD DRAWING (RFI#008 INCORPORATED)

MATERIAL LISTS

NO.	DATE	DESCRIPTION
33A	8-9-10	42"W.G. SUPPLY FROM FCU UNITS
33B	8-9-10	14", 9", & 7" W.G. IN LIEU OF DUCTWORK
33C	8-9-10	42"W.G. SUPPLY FROM C/A
33D	1-31-11	42"W.G. SUPPLY FOR CO #1 SEE SO 30 ALSO
FM-3	2-10-11	RETURN PLENUM FOR AHU E-1
33E	3-14-11	FLOOR SUPPORTS
33F	3-14-11	FCU NEW FITTINGS
33AC	6-9-11	ADDITIONAL PCS. 1-7

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ttaylor@harris-hart.com

JOB NO:	9507 PAY ITEM: 33
PROJECT:	CHILDRENS HOSPITAL ORANGE, CA
TITLE:	LOWER LEVEL AREA F HVAC SYSTEM LAYOUT
REFERENCE DRAWINGS	ARCH:A3.0F STRUCT: S2.1A MECH:M3.0F
BY: R.F.	DRAWING NO. 33 OF 115
DATE: 1-27-10	
SCALE: 3/8"=1'-0"	


H
J
J.4
K
L
34'-0"
15'-6"
24'-6"
34'-0"
29'-6"
CORRIDOR
B.116.00 C
ACT+8'-0"
OFFICE
B.110.A
ACT+8'-0"
STORAGE GENERAL
B.071.08
CORRIDOR
B.088.00L
ACT+8'-0"
MECHANICAL
B.110
EXPOSED
TRASH CHUTE HOLD
B.112
EXPOSED
LINEN
B.112.00.A
EXPOSED
MECHANICAL
B.114
EXPOSED
NORMAL ELECT.
B.088
EXPOSED
FCU B-1
FCU B-3
FCU B-7
MBD 34-1
MBD 34-2
MBD 34-4
MBD 33-2
AHU E-1
AHU-E(SA)+6"WG GALV
36x16SA
SOLID CONN TO UNIT REPLACES SEISMIC
SEE ASSEM. DETAILS ON SEISMIC SUPPORTS AND BRACING SHEET
FFE=(-1'-0")
FFE=0'-0"
FFE=(-1'-10")
FFE=(-1'-0")
LIST 34B
LIST 34C
LIST 34A
LIST 33A
LIST 33B
LIST 34B-4"WG.
LIST 34C-2"WG.
LIST 33B-4"WG.
LIST 33A-2"WG.
LIST 34B-2"WG.
LIST 34C-2"WG.
LIST 33B-2"WG.
LIST 33A-2"WG.
LIST 34B-3"EA
LIST 34C-3"EA
LIST 33B-3"EA
LIST 33A-3"EA
LIST 34B-2"RA
LIST 34C-2"RA
LIST 33B-2"RA
LIST 33A-2"RA
LIST 34B-4"RA
LIST 34C-4"RA
LIST 33B-4"RA
LIST 33A-4"RA
LIST 34B-(-2"WG.)
LIST 34C-(-2"WG.)
LIST 33B-(-2"WG.)
LIST 33A-(-2"WG.)
LIST 34B-(+2"WG.)
LIST 34C-(+2"WG.)
LIST 33B-(+2"WG.)
LIST 33A-(+2"WG.)
LIST 34B-(-3"WG.)
LIST 34C-(-3"WG.)
LIST 33B-(-3"WG.)
LIST 33A-(-3"WG.)
LIST 34B-(+3"WG.)
LIST 34C-(+3"WG.)
LIST 33B-(+3"WG.)
LIST 33A-(+3"WG.)
LIST 34B-(-4"WG.)
LIST 34C-(-4"WG.)
LIST 33B-(-4"WG.)
LIST 33A-(-4"WG.)
LIST 34B-(+4"WG.)
LIST 34C-(+4"WG.)
LIST 33B-(+4"WG.)
LIST 33A-(+4"WG.)
LIST

LOWER LEVEL - NORTH CENTRAL

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

Key Plan

NOTES

1. LEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR TRANSVERSE CONNECTORS, TRANSITIONS AND OFFSETS AS REQUIRED WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE
B, BOTT	BOTTOM
CL	CENTERLINE
E, EN	ENTERING
DM	DUCTMATE CONNECTOR
F, FTM	FITMATE
FD	FIRE DAMPER
FI	FLANGE IN
FO	FLANGE OUT
FOB	FLAT ON BOTTOM
FOS	FLAT ON SIDE
FOT	FLAT ON TOP
H	HORIZONTAL
L	LENGTH
OS	OFFSET
R	RADIUS
S & SMC	S & SMC CONNECTOR
SI	SPIN-IN FITTING
SLD/C	SLIDE
SLV	SLIP & DRIVESMC
T	TOP
TDC	TRANSVERSE DUCT CONNECTOR
TF	TRANSITION FITTING
TRANS	TRANSITION
TV	TURNING VANES
U	UP
V	VERTICAL
VD	VOLUME DAMPER
W	WITH
WG	WIRE GAUGE
WI	WORK INDICATOR
WLF	WALL FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH DIAL OR QUADRANT TYPE REGULATOR
	MOTORIZED VOLUME DAMPER CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	ACCESS DOOR IN DUCT
	DUCTWORK PIECE NO.
	DUCTWORK SIZE INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

NO.	DATE	DESCRIPTION
8	9-2-10	AS-BUILT RECORD DRAWING

MATERIAL LISTS

NO.	DATE	DESCRIPTION
35A	7-30-10	+4"W.G. SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PQS1-49
35B	8-2-10	-3"W.G. EXHAUST AIR DUCTWORK PQS1-34
35C	8-4-10	+2"W.G. SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES PQS1-74
17H-4	2-21-11	+2"W.G. SUPPLY AIR DUCTWORK PQS1-79
38P	8-4-10	PURCHASED SPIRAL & DUCTWORK
39AC	8-5-11	AIRCANS PQS1-73-R1-R14

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JOB NO: 9507 PAY ITEM: 35

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA H
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.0H STRUCT: S2.1C&D MECH: M3.0H

BY: BP
DRAWING NO.
DATE: 1-27-10
35 OF 115
SCALE: 3/8"=1'-0"

LOWER LEVEL - NORTH WEST

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

Key Plan

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR DUCTWORK SLOPES, TRANSITIONS, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	SPIN-IN & DRIVE CONNECTOR
B, BOTT	BOTTOM	SF	SPIN-IN FITTING
CL, CLNG	CEILING	SV	STATIC PRESSURE
D, DN	DOWN	SP, -	STATIC PRESSURE
DM	DUCTMATE CONNECTOR	T	TOP
F, FTM	FLAT FLANGE	TDC	TRANSVERSE DUCT CONNECTOR
FI	FLANGE IN	TH	THROAT
FO	FLANGE OUT	TRANS	TRANSITION FITTING
FOB	FLAT ON BOTTOM	TV	TURNING VANES
FOS	FLAT ON SIDE	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WIDTH
M	MITER	WG	WATER GAUGE
OFFSET	OFFSET	WLI	WALL INDICATOR
OS	ACROSS	FI	FEMALE INDICATOR
R	RADIUS		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH DIAL
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT REGULATOR
	CEILING MOUNTED CONCEALED REGULATOR
M	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	INDICATOR
	DIRECTION OF FLOW/TOP OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
34A	HP+V, SUPPLY AIR DUCTWORK, DOWNSTREAM OF BOXES PCS1-40	7-20-10
34B	24" L (7"H), EXHAUST & RETURN AIR DUCTWORK PCS1-34A	7-26-10
34C	HP+V, SUPPLY AIR DUCTWORK, DOWNSTREAM OF BOXES PCS1-40	7-20-10
34D	WELDED STAINLESS STEEL LABORATORY EXHAUST PCS1-34	7-26-10
34P	PURCHASED SPIRAL & FLAT OVAL DUCTWORK PCS.P-39	7-20-10
34AC	AIRCARE PCS1-10 & 11 PCS.P-26	8-19-11

REVISIONS

NO.	DESCRIPTION	DATE
7	AS-BUILT RECORD DRAWING	5-4-12

SHEET METAL HARRIS & HART CONTRACTORS & FABRICATORS

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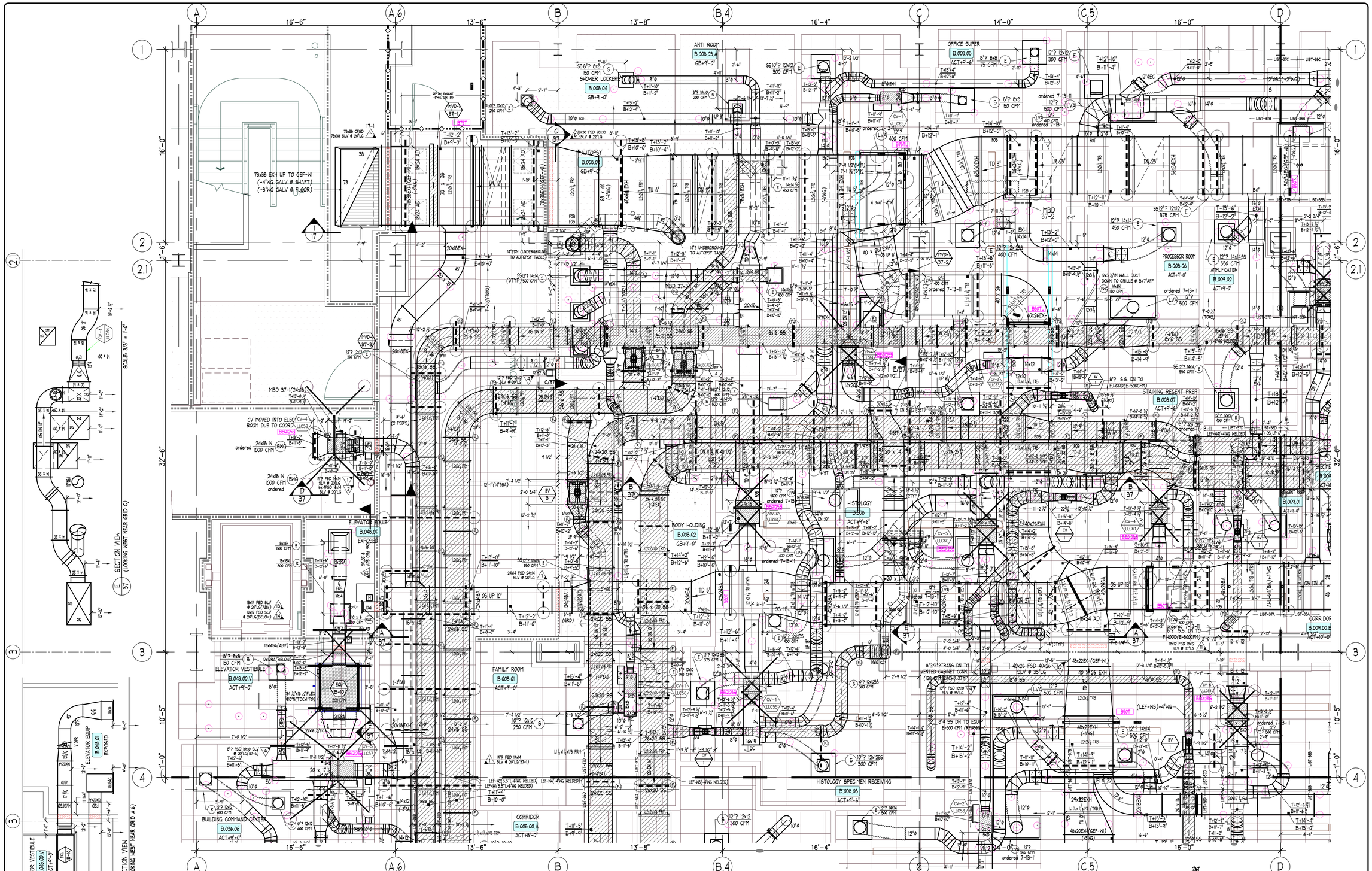
JOB NO: 9507 PAY ITEM: 36

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA J
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH: A3.0J STRUCT: S2.1C MECH: M3.0J

BY: BP
DRAWING NO.
36 OF 115
DATE: 1-27-10
SCALE: 3/8"=1'-0"



NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BOTTOM. ALLOWANCE MUST BE MADE FOR DUCT THICKNESS, REINFORCING AND OUTDOOR INSULATION WHEN COORDINATING CLEARANCES.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTION
B.O.	BOTTOM OF	SCD	SQUARE CHAMFER DUCT
C, CL	CENTERLINE	SLV	SLEEVE
D, DN	DOWN	SP	STATIC PRESSURE
DC	DUCTMATE CONNECTION	TDF	TRANSVERSE DUCT FORMER
EA	EACH	TDC	TRANSVERSE DUCT CONNECTOR
FD	FIRE DAMPER	TH	THROAT
FL	FLANGE (s)	TRANS	TRANSITION FITTING
FOB	FLAT OFF BOTTOM	TU	TURNING VANES
FOS	FLAT ON SIDE	UP	UP
FOT	FLAT ON TOP	V	VERTICAL
FU	FLEXIBLE UNION	VD	VOLUME DAMPER
GA	GAUGE	W	WATER GAUGE
M	MANUAL	WG	WALE INDICATOR
OS	OFFSET	↗↘	DIAGONAL INDICATOR
R	RISERS		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
S	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH SEAL
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
37A	4"WG SUPPLY AIR DUCTWORK	8-3-10
37B	3" & 2"WG EA # RA DUCTWORK	9-2-10
37C	3"WG SUPPLY AIR DUCTWORK	9-2-10
37D	4" & 2"WG WELDED STAINLESS	9-10-10
37P	PURCHASED SPIRAL & DUCTWORK	9-2-10
FP1-4	FOOTPRINT	2-22-11
PDR#4	PDR#4	4-18-11
37E	3"WG GALV PC 6	5-16-11
37F	3"WG GALV PC 1	5-16-11
37G	2"WG DUCT @ FGU-8-0 PCS: 1-5	6-15-11
	4"WG WELDED STAINLESS STEEL EA DUCTWORK PCS: 1-7,8-4,5-8	6-15-11
	AIRCANS PCS: 1-7,8-4,5-8	6-15-11

REVISIONS

NO.	DESCRIPTION	DATE
	AS-BUILT RECORD DRAWING	5-2-12

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LOWER LEVEL - NORTH WEST

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

37F HELDED STAINLESS STEEL
4"WG PCS: 1-2
-4"EXHAUST: 1-2

Key Plan N.T.S.

42	43	
41	40	NIC
37	38	39
36	35	34
31	32	33
30	29	28

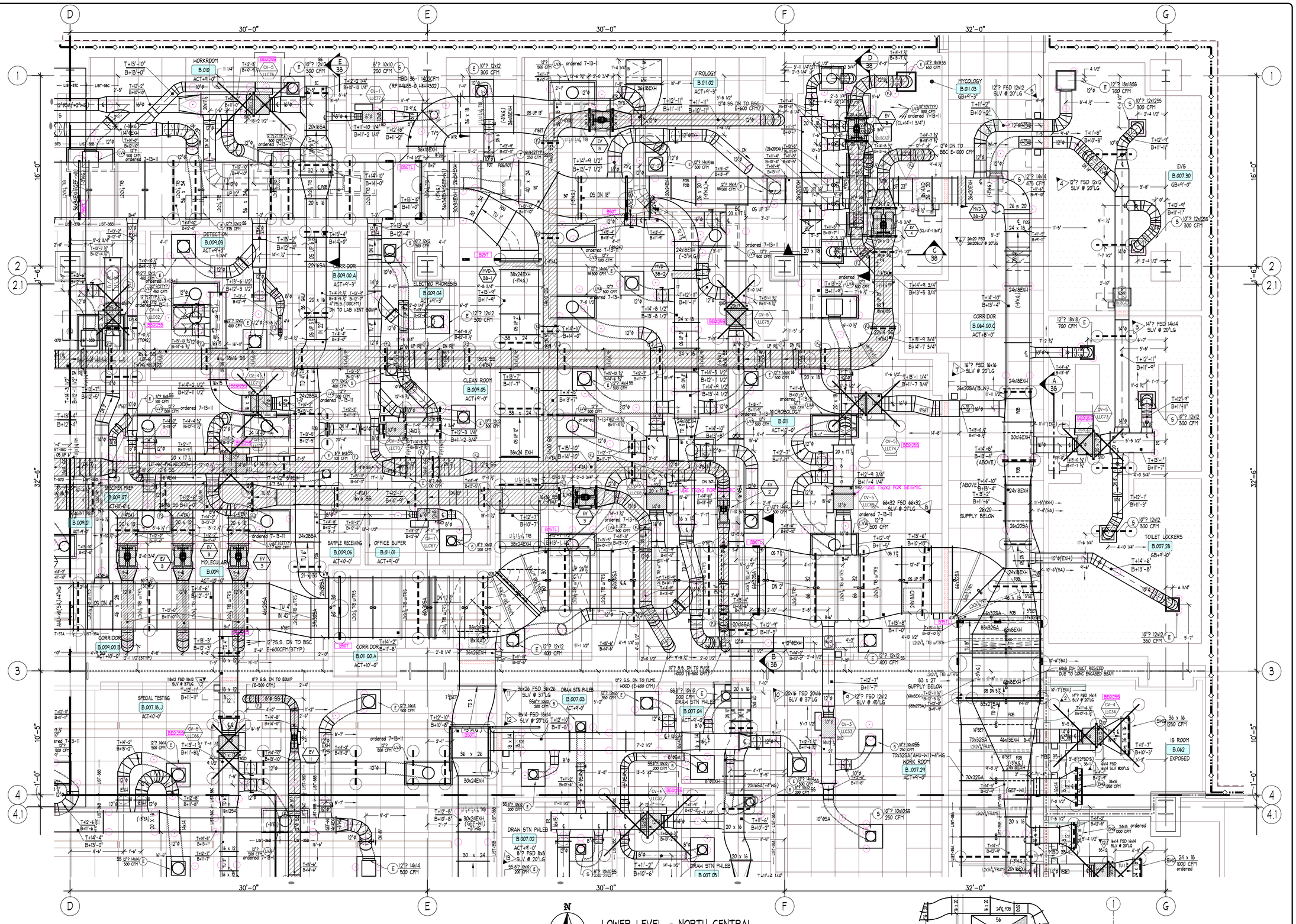
JOB NO: 9507 PAY ITEM: 37

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA K
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.0K STRUCT: S2.1C MECH:M3.0K

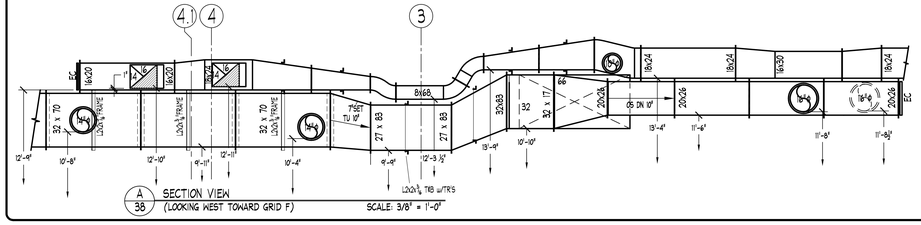
BY: BP
DRAWING NO.
DATE: 1-27-10
37 OF 115
SCALE: 3/8"=1'-0"



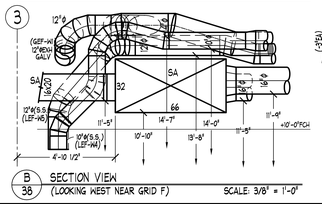
LOWER LEVEL - NORTH CENTRAL

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)
TOP OF STEEL ELEVATION +16'-5 3/4" (U.N.O.)

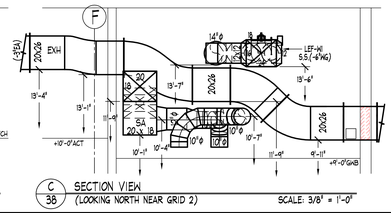
"PROJECT RECORD DRAWING"



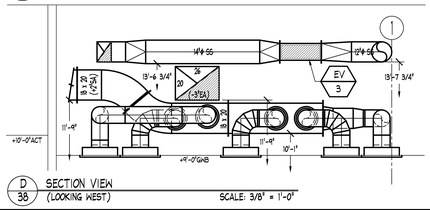
A 38 SECTION VIEW (LOOKING WEST TOWARD GRID F) SCALE: 3/8" = 1'-0"



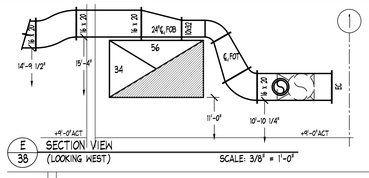
B 38 SECTION VIEW (LOOKING WEST NEAR GRID F) SCALE: 3/8" = 1'-0"



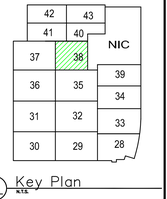
C 38 SECTION VIEW (LOOKING NORTH NEAR GRID 2) SCALE: 3/8" = 1'-0"



D 38 SECTION VIEW (LOOKING WEST) SCALE: 3/8" = 1'-0"



E 38 SECTION VIEW (LOOKING WEST) SCALE: 3/8" = 1'-0"



ALL Key Plan N.T.S.

NOTES

1. ELEVATIONS NOTED ON THE DRAWING ARE TO BOTTOM OF DUCT. ADJUSTMENTS MUST BE MADE FOR TRANSVERSE CONNECTORS, TRANSITIONS, AND DUCT INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & DRIVE CONNECTOR	S
B, BOTT	BOTTOM	SPIN-IN FITTING	SI
C, CNTRLINE	CENTERLINE	SLIDE	SLV
CD	CONDENSATE DRAIN	STATIC PRESSURE	SP
D, DN	DUCTMATE CONNECTOR	TOP	T
F, FEM	FEMALE	TRANSVERSE DUCT CONNECTOR	TDC
FD	FIRE DAMPER	THREAD	TH
FSD	FIRE/SMOKE DAMPER	TRANSITION FITTING	TRANS
FO	FLANGE OUT	TURNING VANES	TV
FOB	FLAT ON BOTTOM	UP	U
FOS	FLAT ON SIDE	VOLUME DAMPER	VD
FOT	FLAT ON TOP	WITH	W
H	HORIZONTAL	WATER GAUGE	WG
M	MALE	WEIGHT	WT
MD	MOTORIZED DAMPER	FEMALE INDICATOR	>F
P	PITOT TUBE	MALE INDICATOR	>M
RD	ROUND DUCT	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR	T= B=
R	RADIUS		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH DIAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT TYPE REGULATOR
MD	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR PANEL
	DUCTWORK FIELD NO. INDICATOR
	DUCTWORK WAIST

MATERIAL LISTS

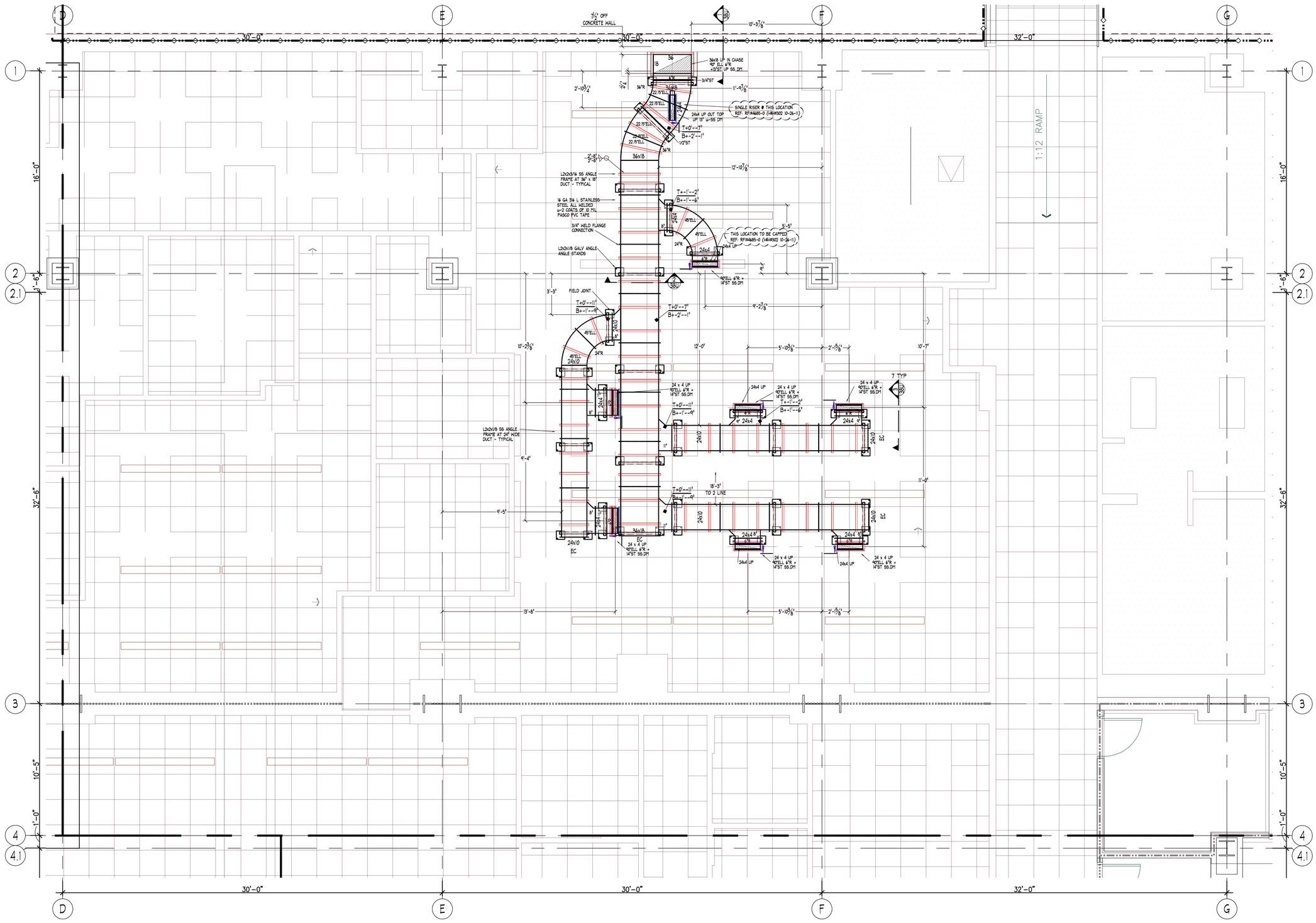
NO.	DESCRIPTION
38A	+4"WG SUPPLY AIR DUCTWORK (UPSTREAM OF BOXES M2S-1-7)
38B	+3"WG EXHAUST AIR DUCTWORK M2S-1-17
38C	+2"WG SUPPLY AIR DUCTWORK (DISTRIBUTION OF BOXES M2S-1-8)
38D	WELDED STAINLESS STEEL EXHAUST DUCTWORK M2S-1-24
38F	PURCHASED SPIRAL & DUCTWORK M2S-1-40F
38AS	ANCILLARIES M2S-1-4-1-5-1, 4-1-6

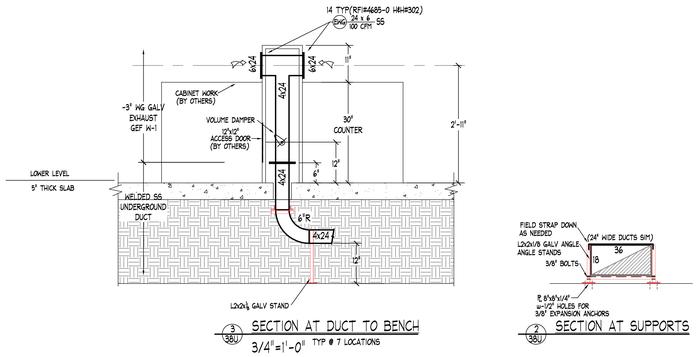
REVISIONS

DATE	NO.	DESCRIPTION
9-24-10	7	AS-BUILT RECORD DRAWING

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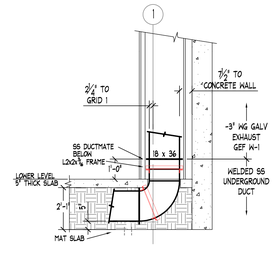
JOB NO: 9507	PAY ITEM: 38
PROJECT:	CHILDRENS HOSPITAL ORANGE, CA
TITLE:	LOWER LEVEL AREA L HVAC SYSTEM LAYOUT
REFERENCE DRAWINGS	ARCH:A3.0L STRUCT: S2.1C MECH: M3.0L
BY: BP	DRAWING NO. 38 OF 115
DATE: 1-27-10	
SCALE: 3/8"=1'-0"	





3/38U SECTION AT DUCT TO BENCH
3/4"=1'-0" TYP @ 7 LOCATIONS

2/38U SECTION AT SUPPORTS



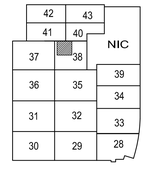
1/38U SECTION AT RISER UP

38U ¼ GA SS UNDERGROUND DUCTWORK NTS 1-9



BENCH UNDERGROUND - AREA L

FINISHED FLOOR ELEVATION=0'-0" (U.N.O.)



LL Key Plan N.T.S.

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE BOTTOM OF DUCT. ALLOWANCE MUST BE MADE FOR TRANSVERSE CONNECTORS, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD or AL	ACCESS DOOR/ ACCESS PLATE	S or D	8 x SPIRIC CONNECTOR SPIN-IN FITTING
BOTT	BOTTOM	SLV	SLEEVE
CL	CENTERLINE	SP	STATIC PRESSURE
DN	DOWN	TDF	TRANSVERSE DUCT FLANGE
DC	DUCTMATE CONNECTOR	TDC	TRANSVERSE DUCT CONNECTOR
F, FEM	FEMALE	TH	THROAT
FD	FIRE DAMPER	TRANS	TRANSITION FITTING
FL	FLANGE IN	TYP/NTS	TYPICAL/ NOTED
FO	FLANGE OUT	U	UP
FOB	FLAT ON BOTTOM	V	VERTICAL
FOS	FLAT ON SIDE	VD	VOLUME DAMPER
FOT	FLAT ON TOP	W	WITH
H	HORIZONTAL	WG	WATER GAUGE
M	MALE	¶	WALL ADDUCTION
NTS	OFFSET	¶	SMALL ADDUCTION
W	WALKS		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION
	MULTIBLADE DAMPER NO.
	MANUAL VOLUME DAMPER WITH SINGLE BLADE DAMPER FINAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH CEILING MOUNTED CONCEALED REGULATOR
	APPROVED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	ACCESS PIECE NO.
	ANCHOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

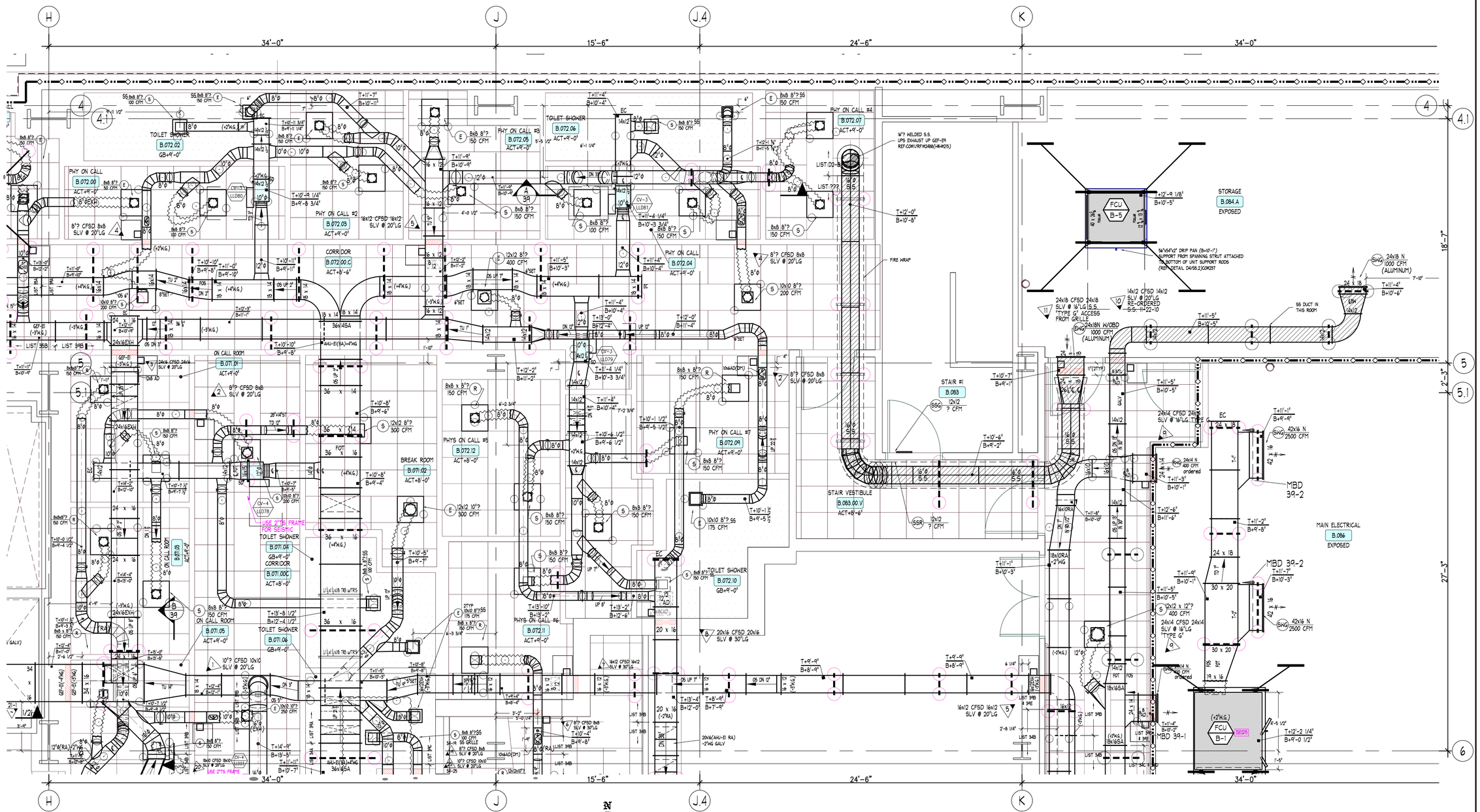
NO.	DESCRIPTION	DATE
4	AS-BUILT RECORD DRAWING	5-2-12

MATERIAL LISTS

NO.	DESCRIPTION	DATE
38U	16 GA 316 L SS WELDED UNDERGROUND DUCT PCS1-4	7-26-10

HARRIS & HART INC.
1759 WEST 1200 SOUTH
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ttaylor@harris-hart.com

JOB NO: 9507 PAY ITEM: 38
PROJECT: CHILDRENS HOSPITAL ORANGE, CA
TITLE: LOWER LEVEL AREA L UNDERGROUND EXHAUST
REFERENCE DRAWINGS
ARCH:A3.01 STRUCT: S2.1A&B MECH:M3.0L
BY: R.F.
DRAWING NO. 38U OF 115
DATE: 1-27-10
SCALE: 3/8"=1'-0"



NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO BOTTOM OF DUCT. DUCTWORK MUST BE SIZED FOR TRANSITIONS, CONNECTORS, REINFORCING AND EXTERIOR INSULATION WHEN ELEVATIONS ARE CRITICAL.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTOR
B	BOTTOM	SD	SMOKE DETECTOR
℄, CL	CENTERLINE	SLV	SLEEVE
D, DN	DOWN	SP	STATIC PRESSURE
DM	DAMPER MOTOR	T	TEMPERATURE
E, EC	ELECTRICAL CONNECTION	TDC	TRANSVERSE DUCT CONNECTOR
F, ITEM	FIRE DAMPER	TH	THROAT
FD	FLANGE IN	TR	TRANSITION FITTING
FI	FLANGE OUT	TRANS	TURNING VANES
FOB	FLAT ON BOTTOM	U	UP
FOS	FLAT ON SIDE	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WIDE
M	MALE	WG	WATER GAUGE
OS	OFFSET	↗	WALL INDICATOR
R	RISER	↗D	WALL INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER W/O DAL
	MANUAL VOLUME DAMPER WITH DAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
3M4	4"MG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES	9-13-10
3M3	-3" 1 2" MG EXHAUST & RETURN DUCTWORK	9-14-10
3M2	2"MG SUPPLY AIR DUCTWORK DWNSTREAM OF BOXES	9-17-10
3M0	WELDED 304-2B STAINLESS STEEL	1-28-11
3M2	GALV DUCT CHANGES DUE TO CORI	1-28-11
3M1	PURCHASED SPIRAL & DUCTWORK	9-7-10
3MF	GALV DUCT TO FCUS	5-26-11
3M4G	AREAS'S PCS: 14-7-20.21	6-15-11

REVISIONS:

NO.	DESCRIPTION	DATE
8	AS-BUILT RECORD DRAWING	9-2-12

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42	43				
41	40				
37	38	NIC			
36	35	39	34		
31	32		33		
30	29		28		

JOB NO: 9507 PAY ITEM: 39

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LOWER LEVEL AREA M
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.0M STRUCT: S2.1D MECH:M3.0M

BY: BP
DATE: 1-27-10
SCALE: 3/8"=1'-0"

DRAWING NO.
39 OF 115