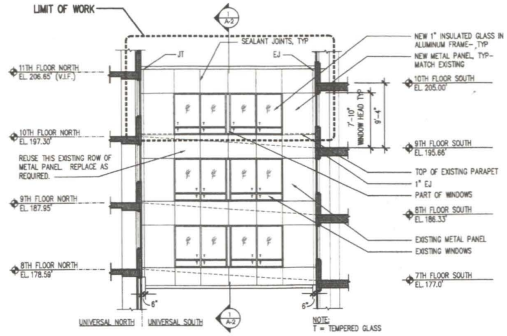
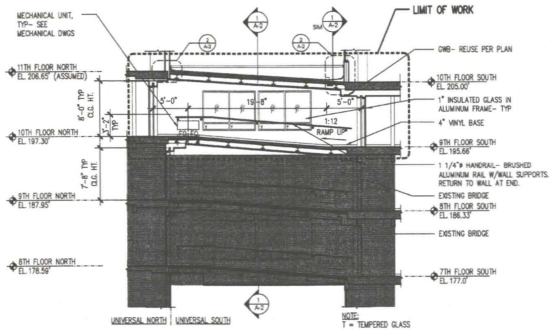
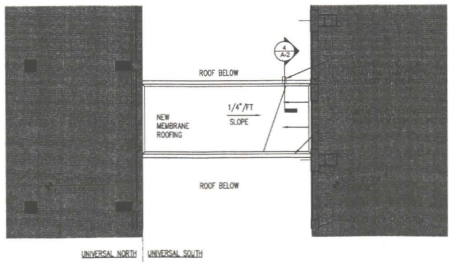


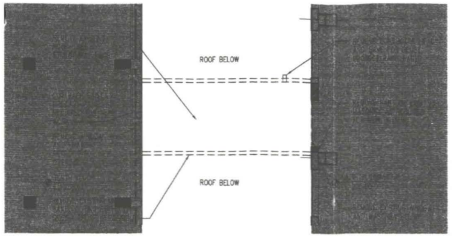
9 ELEVATION AT ELEVATED WALKWAY
SCALE: 1/8"=1'-0"



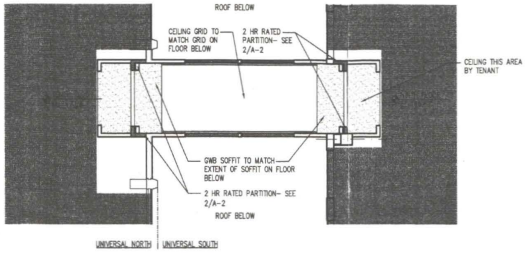
8 SECTION AT ELEVATED WALKWAY
SCALE: 1/8"=1'-0"



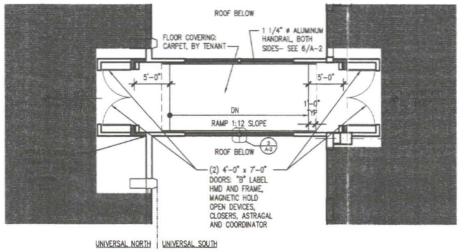
7 WALKWAY ROOF PLAN
SCALE: 1/8"=1'-0"



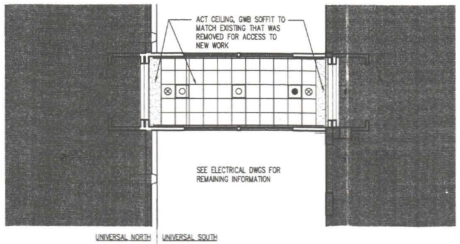
6 9TH FLOOR DEMOLITION PLAN- EXISTING WALKWAY ROOF
SCALE: 1/8"=1'-0"



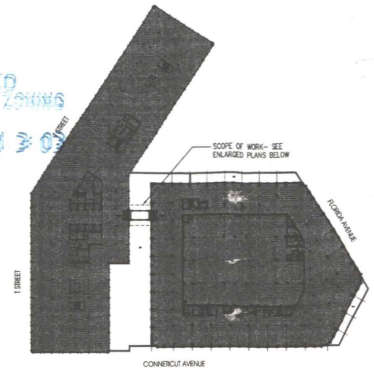
5 9TH FLOOR CEILING PLAN
SCALE: 1/8"=1'-0"



4 NEW 9TH FLOOR ELEVATED WALKWAY PLAN
SCALE: 1/8"=1'-0"



3 8TH FLOOR CEILING PLAN- EXISTING WALKWAY LEVEL
SCALE: 1/8"=1'-0"



1 KEY PLAN
SCALE: 1/64"=1'-0"

D.C. RECEIVED
D.C. OFFICE OF ZONING
2004 OCT 28 PM 3:03

ZONING CODE INFORMATION

LOCATION:	LOT 831, SQUARE 2535
DISTRICT:	C-3-C
SITE AREA:	53,590 SQ. FT- EXISTING
FAR*	

*NOTE: THIS BUILDING WAS CONSTRUCTED PRIOR TO 1957 WHEN BUILDINGS WERE CONTROLLED BY HEIGHT AND OCCUPANCY RATHER THAN GROSS FLOOR AREA AND F.A.R.

GROSS AREA ADDED BY NEW ENCLOSED BRIDGE - 264.25 SQUARE FEET
VOLUME ADDED BY NEW ENCLOSED BRIDGE - 2,422 CU FEET

FIRE RATING OF OF STRUCTURAL ELEMENTS (BC 2000, TABLE 601)**

BUILDING ELEMENT	TYPE 1A
STRUCTURAL FRAME: Including columns, girders, trusses	3 HR
BEARING WALLS- Exterior / Interior	3 HR / 3 HR
NONBEARING WALLS AND PARTITIONS- Exterior / Interior	1 HR / 0
FLOOR CONSTRUCTION- Including supporting beams and joists	2 HR
ROOF CONSTRUCTION- Including supporting beams and joists	1 1/2 HR

**NOTE: PROVIDE FIREPROOFING ON ALL STRUCTURAL MEMBERS AND FLOOR AND ROOF ASSEMBLIES TO COMPLY WITH TABLE 601.

GENERAL NOTES

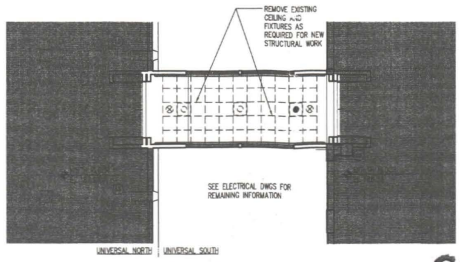
1. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND FLOOR ELEVATIONS IN FIELD.
2. PROTECT DURING CONSTRUCTION EXISTING FINISHES AND MATERIALS THAT ARE TO REMAIN.
3. ALL NEW FINISHES TO MATCH EXISTING FINISHES OF EXISTING BRIDGE.
4. AREAS OUTSIDE MAIN SCOPE OF WORK SHADED.

BUILDING CODE INFORMATION

DCMR	2003, IBC 2000	
	EXISTING	PROPOSED
USE GROUP:	B	B
	M	M
	S-2	S-2
CONSTRUCTION TYPE:	1B BOCA	1A IBC (APPROX.)
HEIGHT:	90'-0" EXISTING	90'-0"
NO. OF STORIES:	10	10
HIGH-RISE:	YES	YES
FULLY SPRINKLERED:	YES	YES
ALARM SYSTEM:	YES	YES
HANDICAPPED ACCESS:	YES	YES

DRAWING INDEX

A-1	ELEVATED WALKWAY PLANS, SECTION AND ELEVATION
A-2	ELEVATED WALKWAY ELEVATION AND DETAILS
S1.1	FRAMING PLANS
S2.1	SECTIONS/DETAILS
S2.2	DETAILS
S2.3	STRUCTURAL NOTES/LEGEND
M-1	SYMBOLS, NOTES AND ABBREVIATIONS- MECHANICAL
M-2	8TH TO 9TH FLOOR BRIDGE, 9TH TO 10TH FLOOR BRIDGE, EXISTING AND NEW WORK, AND SCHEDULES- MECHANICAL
E-1	NOTES, SYMBOL LISTS, ABBREVIATIONS, SCHEDULE- ELECTRICAL
E-2	PARTIAL 9TH TO 10TH FLOOR PLANS, DEMOLITION AND NEW WORK, PARTIAL POWER RISER DIAGRAM, SCHEDULE- ELECTRICAL



2 8TH FLOOR DEMOLITION PLAN- EXISTING WALKWAY LEVEL
SCALE: 1/8"=1'-0"

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PROJECT
UNIVERSAL SOUTH ELEVATED WALKWAY
1825 CONNECTICUT AVENUE, NW WASHINGTON, DC 20009
UNIVERSAL BUILDING, INC.

REVISIONS

DRAWING TITLE
ELEVATED WALKWAY PLANS, SECTION, AND ELEVATION

PROJECT NO. 04078.00
DRAWN BY: SFS/JAM
SCALE: AS NOTED
DATE: 31 AUGUST 2004
DWG. NO.

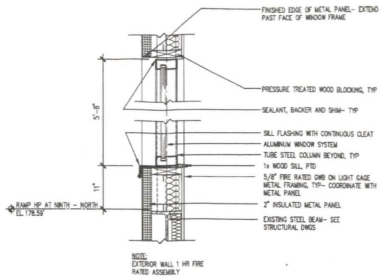
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BZA
Case No. 17265
Exhibit No. 9 A-1

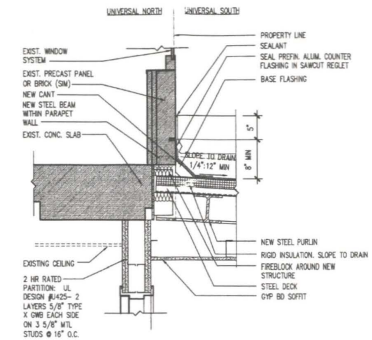
Board of Zoning Adjustment
District of Columbia
CASE NO. 17265
EXHIBIT NO. 9

GENERAL NOTES

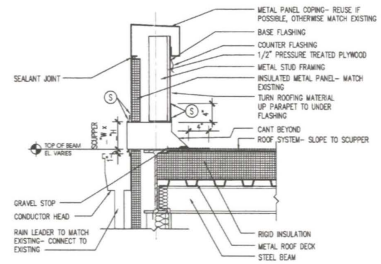
1. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND FLOOR ELEVATIONS IN FIELD.
2. PROTECT DURING CONSTRUCTION EXISTING FINISHES AND MATERIALS THAT ARE TO REMAIN.
3. ALL NEW FINISHES TO MATCH EXISTING FINISHES OF EXISTING BRIDGE.
4. AREAS OUTSIDE SCOPE OF WORK SHADED.
5. METAL PANEL AT EXTERIOR WALLS TO PROVIDE 1 HR FIRE RATING.



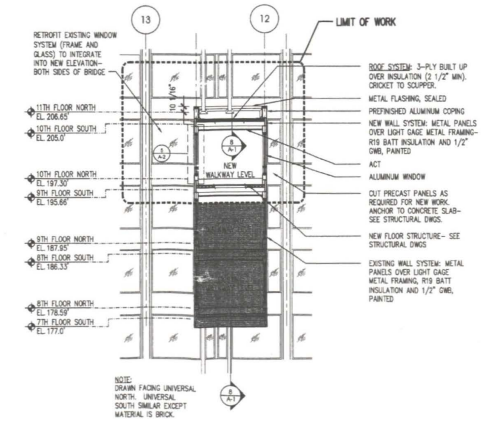
5 HEAD AND SILL DETAIL AT ELEVATED WALKWAY
SCALE: 1"=1'-0"



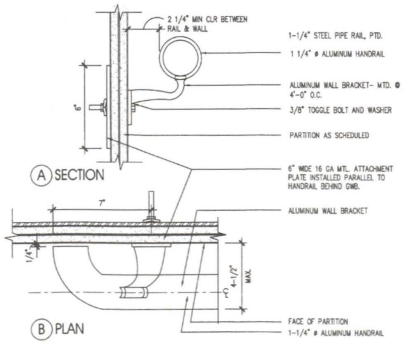
2 ROOF BEAM AT ELEVATED WALKWAY
SCALE: 1"=1'-0"



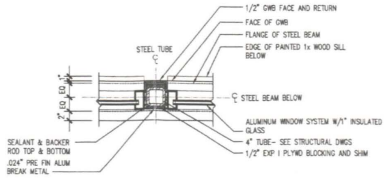
4 SCUPPER DETAIL AT ELEVATED WALKWAY
SCALE: 1"=1'-0"



1 ELEVATION AT ELEVATED WALKWAY
SCALE: 1/8"=1'-0"



6 HANDRAIL DETAIL
SCALE: 3"=1'-0"



3 PLAN DETAIL AT MULLION
SCALE: 1"=1'-0"

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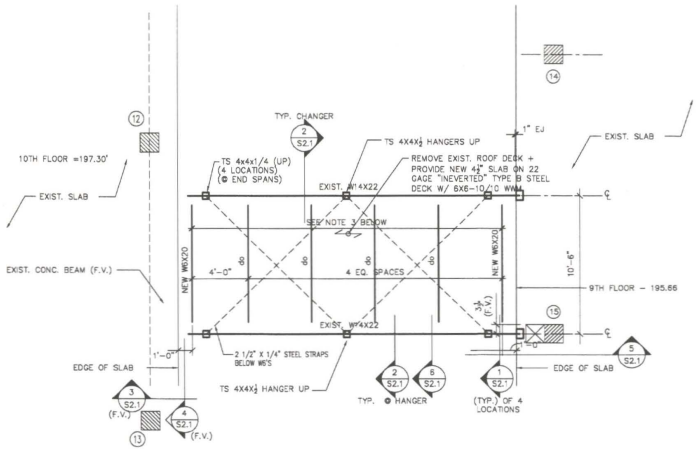
PROJECT
UNIVERSAL SOUTH
ELEVATED WALKWAY
1825 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20009
UNIVERSAL BUILDING, INC.

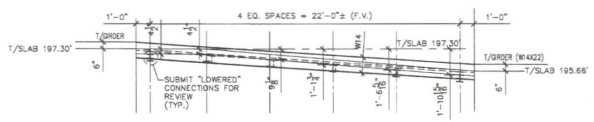
REVISIONS

DRAWING TITLE
ELEVATED WALKWAY
ELEVATION AND DETAILS

PROJECT NO.
04078.00
DRAWN BY:
SFS/JAM
SCALE:
AS NOTED
DATE:
31 AUGUST 2004
DWG. NO.
A-2

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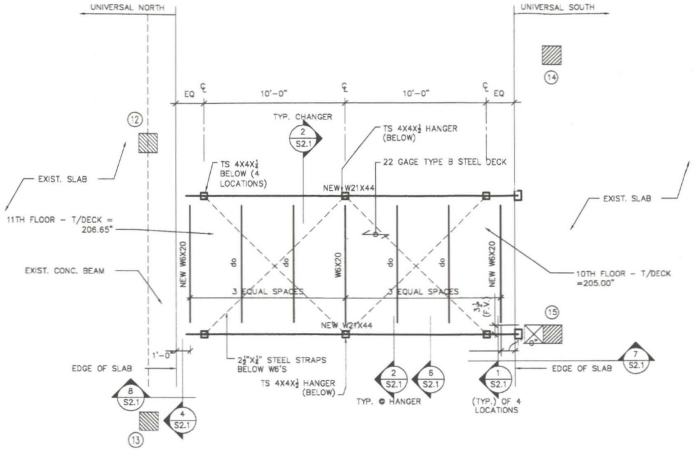
ELEVATION @ NEW FLOOR LEVEL (OLD ROOF)

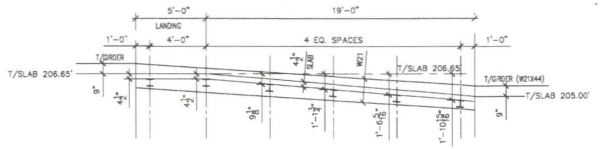
1 9TH FLOOR SOUTH / 10TH FLOOR NORTH WALKWAY FRAMING PLAN

SCALE: 1/4" = 1'-0

PLAN NOTES

1. EXISTING CONDITIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
2. ROTATE NEW STEEL FILLER BEAMS AS REQUIRED FOR PROPER DECK BEARING.
3. REMOVE EXIST. W8X20 FILLER BEAMS & REPLACE W/ NEW W8X20 BEAMS @ LOCATIONS SHOWN





ELEVATION @ NEW ROOF

2 10TH FLOOR SOUTH / 11TH FLOOR NORTH ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0

PLAN NOTES

1. EXISTING CONDITIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
2. ROTATE NEW STEEL FILLER BEAMS AS REQUIRED FOR PROPER DECK BEARING.

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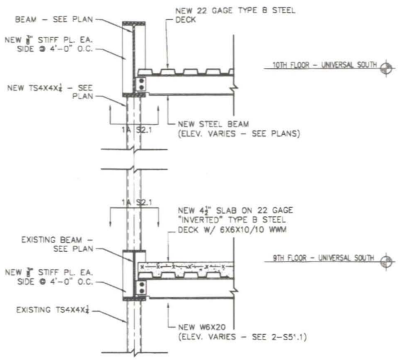
Structural Design Group, Limited
Consulting Structural Engineers
12 North Forest Avenue Suite 110, Gaithersburg, MD 20877
Telephone (301) 947-6224 Fax (301) 947-6227

PROJECT
UNIVERSAL SOUTH
ELEVATED WALKWAY
1825 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20009
UNIVERSAL BUILDING, NO.

REVISIONS
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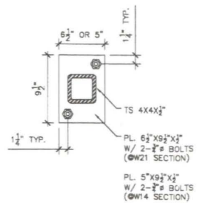
DRAWING TITLE
FRAMING PLANS

PROJECT NO.
D04136.00
DRAWN BY:
SVS/JC
SCALE:
AS NOTED
DATE:
AUGUST 31, 2004
DWG. NO.
S1.1

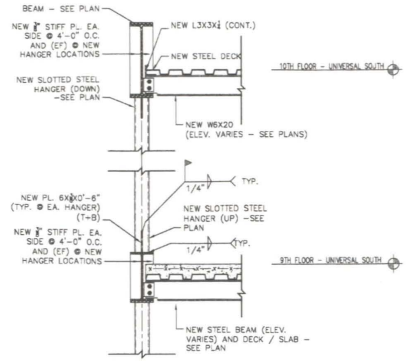


1 / s2.1 SECTION
SCALE: 3/4" = 1'-0

NOTES:
1) STEEL NOT SHOWN FOR CLARITY

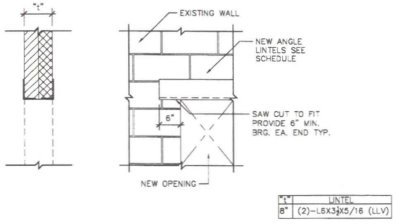


1A / S2.1 SECTION
SCALE: 1-1/2" = 1'-0



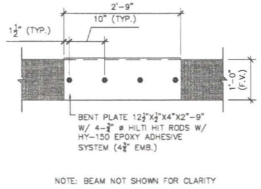
2 / S2.1 SECTION
SCALE: 3/4" = 1'-0

NOTES:
1) STEEL STRAPS NOT SHOWN FOR CALRITY



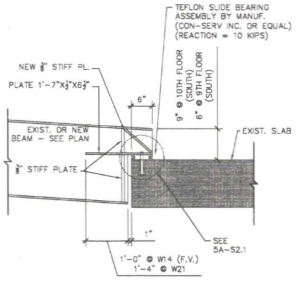
TYPICAL ANGLE LINTEL FOR NEW WALL OPENINGS @ELEVATED WALKWAY (10TH FLOOR SOUTH)

3 / S2.1 SECTION
SCALE: 3/4" = 1'-0

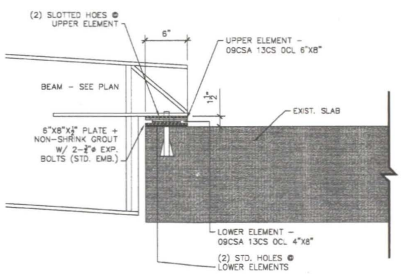


NOTE: BEAM NOT SHOWN FOR CLARITY

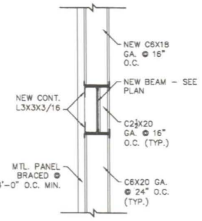
4 / S2.1 SECTION
SCALE: 3/4" = 1'-0



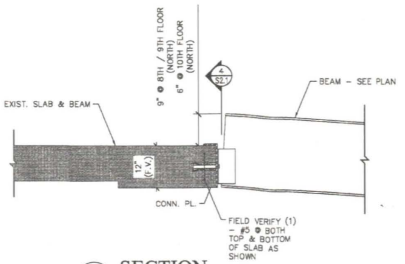
5 / S2.1 SECTION
SCALE: 1-1/2" = 1'-0



5A / S2.1 SECTION
SCALE: 3/4" = 1'-0



6 / S2.1 SECTION
SCALE: 3/4" = 1'-0



7 / S2.1 SECTION
SCALE: 3/4" = 1'-0

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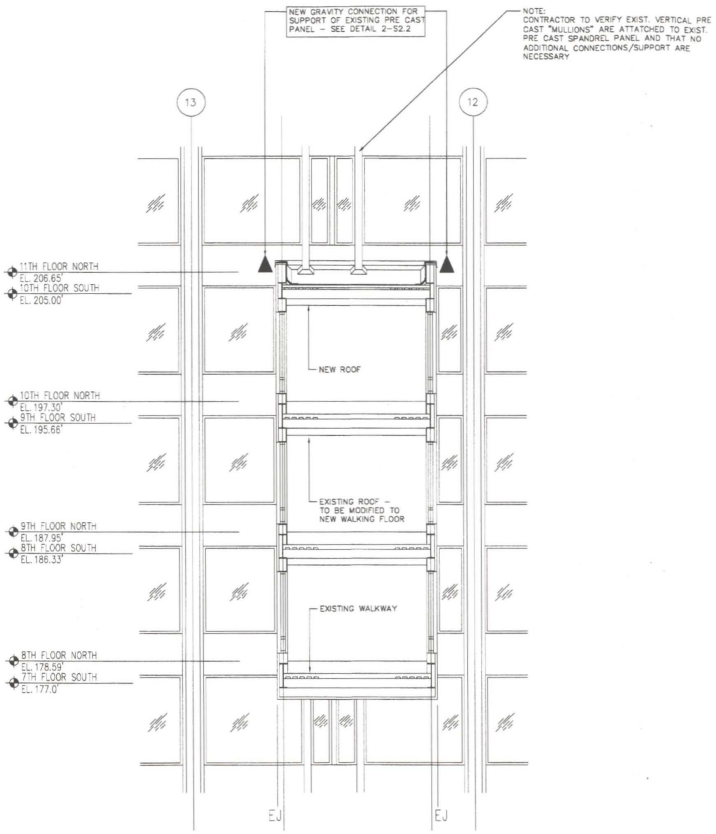
sdg Structural Design Group, Limited
Consulting Structural Engineers
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PROJECT
UNIVERSAL SOUTH
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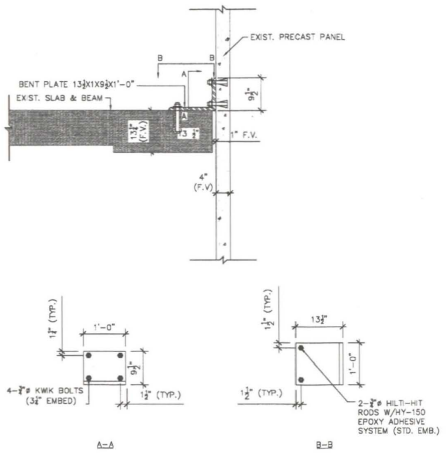
DRAWING TITLE
SECTIONS/DETAILS

PROJECT NO.
D04136.00
DRAWN BY:
SVS/JC
SCALE:
AS NOTED
DATE:
AUGUST 31, 2004
DWG. NO.
S2.1



1 S2.2 ELEVATION - UNIVERSAL NORTH

SCALE: 1/4" = 1'-0



2 S2.2 SECTION

SCALE: 3/4" = 1'-0

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PROJECT
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ELEVATED WALKWAY
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UNIVERSAL BUILDING, INC.

REVISIONS
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DRAWING TITLE
DETAILS

PROJECT NO.
D0436.00
DRAWN BY:
SVS/JC
SCALE:
AS NOTED
DATE:
AUGUST 31, 2004
DWG. NO.
S2.2

'A'

AB	Anchor bolt
ALT	Alternate
ARCH	Architectural
APPROX	Approximate
AFF	Above finished floor

'B'

B	Beam mark
BF	Bottom of foundation elevation
BLK	Blocking
BLDG	Building
BM	Beam
BOD	Bottom of deck
BOT	Bottom
BP	Bearing plate mark
BRG	Bearing
BSMT	Basment
BTWN	Between
BALC	Balcony

'C'

C	Column mark
CANT	Cantilever
CJ	Control joint
CLR	Clear(ance)
CMU	Concrete masonry unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continuous
CIP	Cast in place
COMP	Composite
CNTR	Center

'D'

DTL	Detail
DIAM	Diameter
DIAG	Diagonal
DN	Down
DWG	Drawing
DBL	Double
DL	Dead load
DEMO	Demolish(ed)
DIM	Dimension

'E'

EA	Each
ES	Each side
EL	Elevation
EQ	Equal
EW	Each way
EXIST	Existing
EXP	Expansion
EXT	Exterior
ELEV	Elevator
EF	Each face
ENCL	Enclosure
EOS	Edge of slab

'F'

F	Footing mark
FD	Floor drain
FND	Foundation
FTG	Footing
FUT	Future
FS	Footing step
FV	Field verify
FMG	Framing
FIN	Finish(ed)
FLR	Floor
FO	Face of

'G'

GA	Gauge
GALV	Galvanized
GC	General Contractor(s)
GYP	Gypcrete/gypsum
GWB	Gypsum wall board

'H'

HORIZ	Horizontal
HGT	Height
HP	High point

'I'

INFO	Information
IF	Inside face
ID	Inside diameter
INSUL	Insulation

'J'

JBE	Joist bearing elevation
JST	Joist
JNT	Joint
J	Jack stud

'K'

K	Kip (kilopound)
KO	Knock out
KSI	Kips per square inch
KSF	Kips per square foot

'L'

L	Lintel mark
LLH	Long leg horizontal
LLV	Long leg vertical
LL	Live load
LP	Low point
LSH	Long side horizontal
LSV	Long side vertical
LVL	Laminated veneer lumber

'M'

MIN	Minimum
MSY	Masonry
MAX	Maximum
MISC	Miscellaneous
MO	Masonry opening
MATL	Material
MTL	Metal
MECH	Mechanical
MFR	Manufacturer

'N'

NTS	Not to scale
NS	Near side
NIC	Not in contract

'O'

OC	On center(s)
OPNG	Opening
OPP	Opposite
OF	Outside face
OH	Opposite hand
OD	Outside diameter

'P'

P	Pier Mark
PC	Precast concrete
PEB	Pre-engineered building
PERIM	Perimeter
PL	Plate
PLF	Pounds per linear foot
PP	Precast plank mark
PROJ	Projection
PSF	Pounds per square foot
PSI	Pounds per square inch
PT	Post tension/pressure treated
PLYWD	Plywood
PSL	Parallel strand lumber

'Q'

QTY	Quantity
QLTY	Quality

'R'

RAD	Radius
RD	Roof drain
REV	Revised/revision
REINF	Reinforcement/reinforcing
REQ'D	Required

'S'

SB	Soil bearing
SIM	Similar
SQ	Square
STD	Standard
STL	Steel
STRUCT	Structural
SPC	Space(s)
SL	Snow load
SCH	Schedule
SECT	Section
SPEC	Specification(s)
SHT	Sheet
SS	Stainless steel
SAD	See Architectural Drawings

'T'

TEMP	Temporary/temporarily
TF	Top of foundation elevation
TOC	Top of concrete
TOP	Top of pier elevation
TOS	Top of steel elevation
TOW	Top of wall elevation
TYP	Typical
T	Top of
T&G	Tongue and groove
THK	Thick

'U'

UNEXC	Unexcavated
UNO	Unless noted otherwise
UON	Unless otherwise noted
UMD	Underside of metal deck
UTIL	Utility

'V'

VERT	Vertical
VIF	Verify in field

'W'

W/	With
WF	Wind frame
WP	Working point/water proof
WWF	Welded wire fabric
WWM	Welded wire mesh
WT	Weight

LIVE LOADS - Roof . . . . . 30 psf
Pg = 25 psf
I = 1.0
Ce = 0.7
Bridge Walkway 80psf

WIND LOAD - Section 1609.0 1996 BOCA Code:
V = 80 mph
Pv = 16.4 psf
I = 1.0
Exposure: B

GENERAL

1. Provide all labor, material, equipment and miscellaneous items including but not limited to clips, inserts, ties, anchor straps, hangers, bolts, and other fasteners required to complete the work.

2. Verify all floor and roof openings with the architectural and MEP drawings . Verify all depressions, dimensions, and slopes from the architectural drawings. Any discrepancy shall be brought to the attention of the Architect.

3. The contractor shall be solely responsible for site safety, and the stability of all new, temporary, and existing structures, walls, slabs, etc during the construction phase.

POST INSTALLED MECHANICAL AND CHEMICAL ANCHORS

1. All mechanical and chemical anchors indicated within these documents shall be provided by Hilti, Inc. or an SDG-approved equivalent. Alternate anchors shall submitted to SDG for approval-submittal must include all relevant technical information including allowable load values.

2. All anchors shall be installed in accordance with the anchor manufacturer's specifications.

3. UON, all anchors shall have standard embedment depth as defined by the anchor manufacturer.

4. When anchors are to be installed into existing masonry, the Contractor shall be responsible for field-testing the anchors prior to the fabrication of any materials to verify that the allowable loads as published by the anchor manufacturer, or those indicated on the Structural Drawings, are obtainable. The GC shall submit results of these tests to SDG for review and approval. The anchor sizes and spacings as shown in these documents are subject to change based on the results of the field tests.

STRUCTURAL STEEL

1. Structural steel shall be fabricated and erected in accordance with the latest AISC "Specifications for Design, Fabrication and Erection of Structural Steel for Buildings".

2. Structural steel shapes shall conform to the following:
W-shapes - ASTM A572 (Grade 50) or ASTM A992
Plates, Channels, Angles, Bars - ASTM A36 or ASTM A992
Pipes - ASTM A53 (Grade B)
Structural Tubes - ASTM A500 (Grade B)

3. Shop and field connections shall be welded or made with 3/4" diameter high strength bolts conforming to ASTM A325 or ASTM A490.

4. All welding shall conform to AWS Specifications.

5. No holes shall be located in flanges of beams or columns unless approved by the engineer. No field cutting of the steel members shall be permitted without prior authorization of the structural engineer.

6. Steel beams bearing on masonry or concrete walls shall have standard angle wall anchors.

7. Contractor shall submit shop drawings which adequately depict the structural elements in the contract documents. Provide standard AISC framed beam connections typical. Connections shall be designed for the service load reactions values shown on the structural drawings. For steel members whose reactions are not shown, the design reaction should be half of the allowable beam load found in AISC Tables (minimum of 10k).

8. The owner shall retain the services of a qualified inspector to inspect erected steel and connections.

9. Structural steel exposed to weather shall be galvanized.

10. Structural Steel members shall be shop painted / coated per project specifications. In the absence of project specifications, provide one coat of primer in compliance with manufacturer's instructions to surfaces except those to be galvanized, areas to be field welded, concealed by fireproofing, or embedded in concrete.

11. Splicing of structural steel members is prohibited without approval of location and splice design by the structural engineer.

WELDING

1. Shall be performed in accordance with the American Welding Society "Standard Code for ARC and Gas Welding in Building Construction" (AWS D1.1), latest edition, and shall be performed by certified welders only.

2. All welds shall be 3/16" fillet welds unless otherwise noted. All partial and full penetration welds shall performed by welders certified to perform such welds. All partial and full penetration welds are subject to testing as directed by Engineer.

ROOF DECK

1. Shall be 1 1/2", 22 gage (or as otherwise indicated on the structural drawings), type B, painted, steel deck (unless project specifications indicate that roof deck shall be galvanized). Fasten roof deck by welding to structural members 12" oc at supports or as indicated on drawings. Lap deck 2" minimum. Weld side laps @ 18" o.c. or as shown on structural drawings. Side lap connections may be made with #10 self-tapping screws in lieu of welding unless indicated otherwise on the structural drawings. All welds shall be 5/8" diameter puddle welds. Provide welding washers if puddle welds are not achieving adequate connection to supporting members.

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REVISIONS
08/21/04 - PERMIT

DRAWING TITLE
STRUCTURAL
NOTES / LEGEND

PROJECT NO.
D04136.00
DRAWN BY:
SVS/JC
SCALE:
AS NOTED
DATE:
AUGUST 31, 2004
DWG. NO.
S2.3

MECHANICAL NOTES

1. GENERAL

A. THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND APPLICABLE PROVISIONS OF OTHER DIVISIONS, FORM A PART OF THIS SPECIFICATION AND CONTRACT, AND SHALL BE CAREFULLY EXAMINED BY EACH BIDDER BEFORE SUBMITTING HIS PROPOSAL.

B. COMPLIANCE WITH LOCAL JURISDICTIONS: ALL WORK PERFORMED UNDER THIS SECTION SHALL CONFORM TO THE REQUIREMENTS OF DRAWINGS, SPECIFICATIONS AND TO THE CODES, ORDINANCES AND STANDARDS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES FOR INSPECTIONS RELATED TO HIS WORK.

D. INSTALLATIONS SHALL BE GUARANTEED FOR WORKMANSHIP, MATERIALS AND EQUIPMENT AGAINST DEFECTS, LEAKS AND SYSTEM NON-OPERATION FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF WORK BY OWNER. WHERE MANUFACTURER'S STANDARD WARRANTY IS LONGER THAN ONE YEAR, THE LONGER WARRANTY PERIOD SHALL TAKE PRECEDENCE. FOR REFRIGERATION COMPONENTS, PROVIDE EXTENDED 100% PARTS AND LABOR WARRANTY FOR YEARS 2-5. CONTRACTOR SHALL PAY ALL COSTS INVOLVING THE GUARANTEE OF ALL SYSTEMS.

E. THE WORD "PROVIDE", AS USED IN SPECIFICATIONS AND ON PLANS, SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.

F. ALL WORK SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.

G. IN GENERAL, DRAWINGS FOR WORK ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION, TYPE AND SIZE OF PIPING, EQUIPMENT, DUCTWORK, AND ACCESSORY EQUIPMENT.

H. THE CONTRACTOR SHALL FIELD VERIFY ALL NECESSARY DIMENSIONS BEFORE INSTALLING ANY OF THE WORK, AND SHALL CHECK HIS LAYOUTS TO ALLOW CLEARANCE REQUIRED FOR OTHER WORK AS SHOWN ON THE DRAWINGS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL ALERT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

I. THE SCOPE OF WORK CONSISTS GENERALLY OF PROVIDING A COMPLETE SYSTEM FOR HEATING, VENTILATING AND AIR CONDITIONING AS INDICATED, AUTOMATIC TEMPERATURE CONTROLS AND FINAL TESTING, ADJUSTING, AND BALANCING OF ALL SYSTEMS AND EQUIPMENT. PROVIDE ALL MATERIALS, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO ACCOMPLISH THE WORK.

J. CONTRACTOR SHALL EXAMINE ALL DRAWINGS, SPECIFICATIONS AND ADDENDA, AND VISIT THE SITE PRIOR TO ISSUING BID. ANY QUESTIONS OR CLARIFICATIONS SHALL BE REFERRED TO THE ENGINEER AT LEAST 7 WORKING DAYS PRIOR TO BIDDING. ANY REQUEST BY THE CONTRACTOR FOR ADDITIONAL COSTS RELATED TO THE INSTALLATION, RELOCATION, MODIFICATION OR ADDITION OF EQUIPMENT REQUIRED TO SATISFY THE INTENT OF THIS PROJECT, DUE TO A LACK OF CLEAR UNDERSTANDING OF THE PROJECT REQUIREMENTS, WILL NOT BE ACCEPTED.

K. IN THE EVENT OF A CONFLICT BETWEEN CODES, DRAWINGS, AND/OR SPECIFICATIONS, THE MORE STRINGENT OR DEMANDING REQUIREMENT SHALL TAKE PRECEDENCE.

L. SUBMIT 7 SETS OF EQUIPMENT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION OF EQUIPMENT. SUBMIT DATA SHEETS TO ALLOW ADEQUATE TIME FOR REVIEW, INCLUDING RE-REVIEW OF ITEMS NOT APPROVED UPON FIRST SUBMISSION.

2. PRODUCTS AND INSTALLATION:

A. ALL PRODUCTS SHALL BE FIRST QUALITY, SUITABLE FOR THE INTENDED INSTALLATION, AND SHALL BE PROVIDED COMPLETE WITH ALL NECESSARY APPURTENANCES FOR A COMPLETE SYSTEM, READY FOR BENEFICIAL USE.

B. ALL ELECTRICAL EQUIPMENT SHALL BE UL LABELED, OR EQUIVALENT BY COMPARABLE TESTING LAB.

3. EXECUTION:

A. ALL WORK SHALL BE ACCOMPLISHED BY EXPERIENCED MECHANICS, SPECIALIZING IN THE PARTICULAR TRADE, UTILIZING APPROPRIATE TOOLS AND TECHNIQUES. ALL WORK SHALL BE FIRST QUALITY, CONSISTENT WITH INDUSTRY'S BEST STANDARDS. WORK DEEMED TO BE SUBSTANDARD SHALL BE REMOVED AND REMADE AT CONTRACTOR'S EXPENSE.

B. PERFORM ALL OPERATIONS REQUIRED AND INSTALL ALL UNITS, EQUIPMENT, AND CONTROLS WITH ALL REQUIRED ACCESSORIES, TO PRODUCE A COMPLETE INSTALLATION, READY FOR USE.

C. TESTS: BEFORE ACCEPTANCE OF HVAC SYSTEM, THE SYSTEM SHALL BE TESTED, ADJUSTED. SUBMIT FOR REVIEW 6 COPIES OF THE CERTIFIED FINAL REPORT. EQUIPMENT AND CONTROLS ARE TO BE TESTED AND DETERMINED THAT ALL SYSTEMS AND OPERATIONS ARE SATISFACTORY AND PERFORMING AS INTENDED AND THAT CLEAN FILTERS AND STRAINERS ARE IN PLACE PRIOR TO BALANCING. ADJUST/REPLACE DRIVE SHEAVES AS REQUIRED TO ACHIEVE DESIRED AIRFLOW.

D. ALL EQUIPMENT, DUCTWORK, CONTROLS AND PIPING SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION. ANY DAMAGED EQUIPMENT SHALL BE REPLACED AT NO EXTRA COST TO THE OWNER.

E. SUBMIT ONE COMPLETE SET OF PLANS AND RELATED DOCUMENTS, APPROVED BY THE CITY, TO THE OWNER.

F. PROVIDE TO OWNER 3 SETS OF MAINTENANCE AND OPERATING MANUALS AND MANUFACTURER'S WARRANTY DOCUMENTS FOR ALL EQUIPMENT IN INDEXED 3 RING BINDER.

G. PROVIDE AS-BUILT DRAWINGS TO OWNER UPON COMPLETION OF THE PROJECT. SUBMIT ONE ELECTRONIC COPY (CD) AND TWO SETS OF HARD COPIES (BLUE PRINTS) OF THE AS-BUILT DRAWINGS, CORRECTED TO SHOW ALL FIELD MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS.

H. PROTECT AGAINST INJURY TO PERSONS AND DAMAGE TO PROPERTY AT ALL TIMES.

I. CONTRACTOR SHALL CLEAN THE WORK SITE AFTER EACH DAY'S WORK.

J. FOLLOWING COMPLETION OF CONSTRUCTION PROVIDE NEW FILTERS IN ALL FAN COIL AND AIR HANDLING UNITS.

K. DEMONSTRATE OPERATION OF SYSTEM TO OWNER.

SYMBOL LIST AND ABBREVIATIONS

100	24x24 CEILING SUPPLY AIR DEVICE WITH SHADED AREA INDICATING BLANK-OFF PORTION
100	24x24 CEILING SUPPLY AIR DEVICE WITH DESIGN CFM QUANTITY
	24x24 CEILING RETURN AIR DEVICE
	EXISTING EQUIPMENT
	DUCT WITH 1" ACOUSTIC LINER. DIMENSIONS GIVEN ARE INSIDE FREE AREA
	EXISTING EQUIPMENT TO BE REMOVED
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	DUCT WITH SPIN-IN FITTING WITH INTEGRAL DAMPER.
	DUCT WITH MANUAL VOLUME DAMPER.
	DUCT TRANSITION, RECTANGULAR TO ROUND
	SQUARE ELBOW WITH DOUBLE THICKNESS TURNING VANES
R	RADIUS ELBOW. MIN RADIUS EQUALS 1.5 x DUCT WIDTH
—CWS—	CONDENSER WATER SUPPLY PIPING
—CWR—	CONDENSER WATER RETURN PIPING
	BALL VALVE SHUT-OFF
	GATE VALVE SHUT-OFF
	"Y" - TYPE STRAINER
	PIPE UNION
—CD—	CONDENSATE DRAIN PIPING
T	THERMOSTAT, MOUNT @ 48" AFF.
S	SWITCH, MOUNT @ 48" AFF.
	POINT OF CONNECTION, NEW WORK TO EXISTING
	TERMINATION POINT OF DEMOLITION
1/2" —U/C—	DOOR UNDERCUT, SIZE AS SHOWN
	RETURN/EXHUAST AIR FLOW ARROW
CFM	CUBIC FEET (AIR) PER MINUTE
CD	CEILING DIFFUSER
CLG.	CEILING.
EG	EXHAUST GRILLE.
(E)	EXISTING EQUIPMENT
FD	FIRE DAMPER
(N)	NEW EQUIPMENT
(R)	NEW LOCATION OF EXISTING EQUIPMENT DESIGNATED TO BE RELOCATED
RG	RETURN GRILLE
SG	SUPPLY GRILLE
VD	VOLUME DAMPER
(XXX)	RETURN OR EXHAUST AIR CFM
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
GPM	GALLONS PER MINUTE
WPD	WATER PRESSURE DROP, IN. W.G.
LRA	LOCKED ROTOR AMPS
RLA	RATED LOAD AMPS
FLA	FULL LOAD AMPS
HP	HORSEPOWER
E.S.P.	EXTERNAL STATIC PRESSURE
TAD	TRANSFER AIR DUCT
(RE)	RELOCATED (EXISTING) EQUIPMENT
BFP	BACK FLOW PREVENTER
P.O.C.	POINT OF CONNECTION
R&R	REMOVE AND REINSTALL

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REVISIONS
08-31-04 FOR PERMIT

DRAWING TITLE
SYMBOLS, NOTES AND ABBREVIATIONS - MECHANICAL

PROJECT NO.

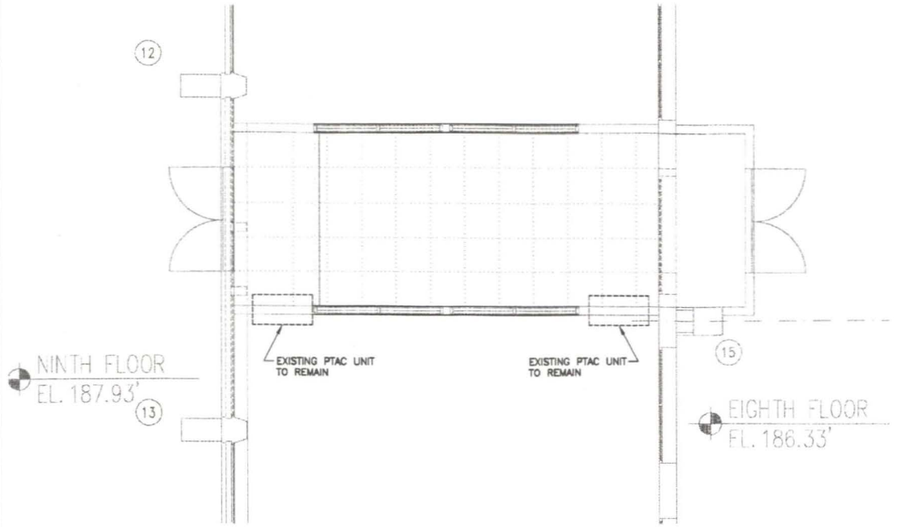
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SCALE: AS INDICATED

DATE: 08-31-04

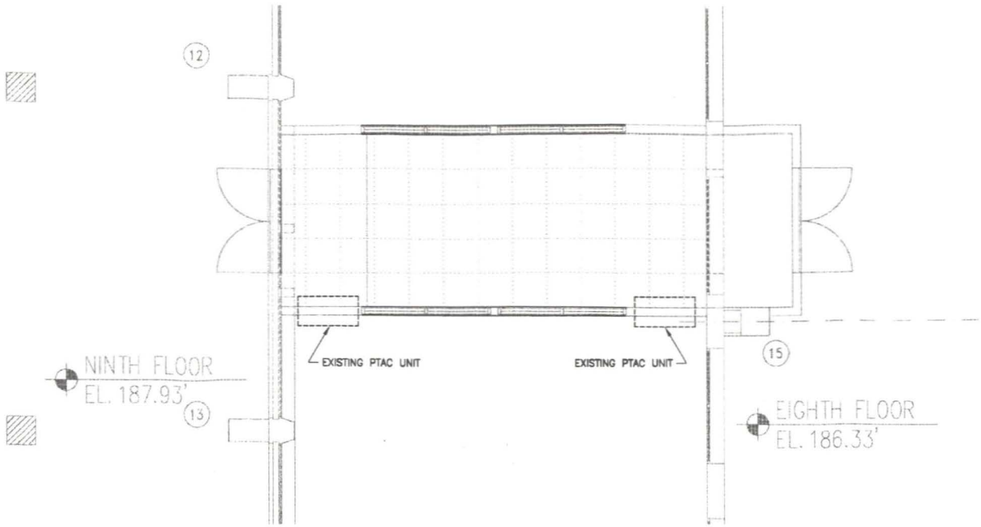
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M-1

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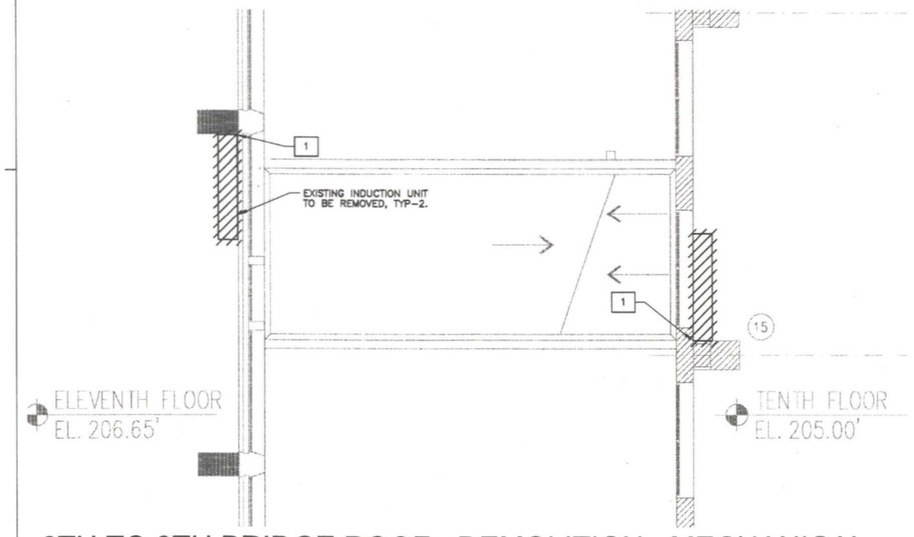
8TH TO 9TH FLOOR BRIDGE - EXISTING - MECHANICAL

SCALE: 1/4" – 1'–0"



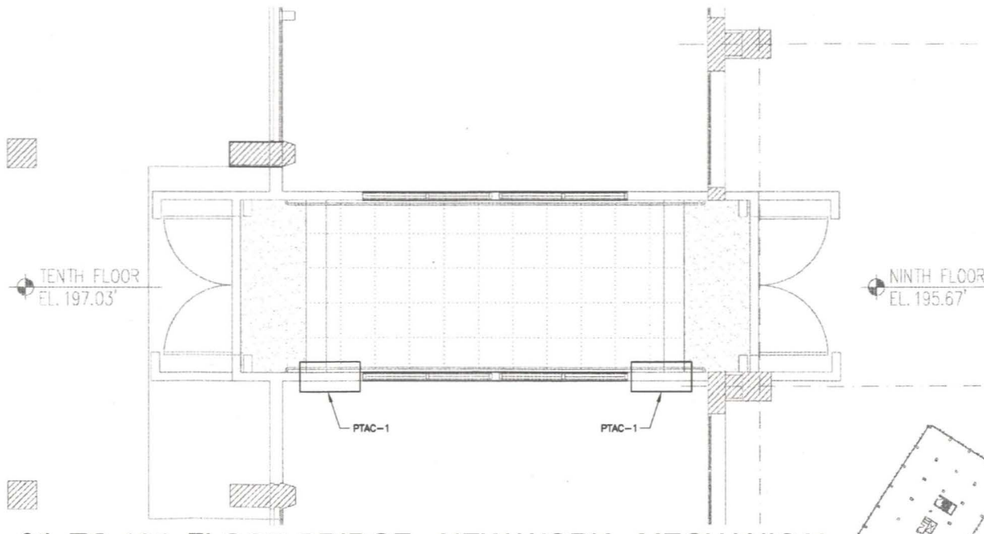
8TH TO 9TH FLOOR BRIDGE - NEW WORK - MECHANICAL

SCALE: 1/4" – 1'–0"



8TH TO 9TH BRIDGE ROOF - DEMOLITION - MECHANICAL

SCALE: 1/4" – 1'–0"



9th TO 10th FLOOR BRIDGE - NEW WORK - MECHANICAL

SCALE: 1/4" – 1'–0"

DEMOLITION KEY NOTES

1 CAP PIPING AND HIGH PRESSURE DUCT TO INDUCTION UNIT AT RISER.

DEMOLITION NOTES

1. ACTUAL INSTALLED CONDITIONS MAY VARY SLIGHTLY FROM THAT PORTRAYED. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO ACCOMMODATE EXISTING CONDITIONS.
2. UNDER NO CIRCUMSTANCE SHALL THE WORK PERFORMED UNDER THIS CONTRACT ADVERSELY AFFECT ADJACENT AREAS, NOT PART OF THIS WORK.
3. IN THE EVENT THAT SUSPECTED ASBESTOS CONTAINING MATERIALS ARE ENCOUNTERED IN THE COURSE OF THE WORK, THE CONTRACTOR SHALL CEASE WORK WITH THE SUSPECT MATERIALS AND SHALL REQUEST DIRECTION FROM THE OWNER BEFORE PROCEEDING FURTHER.
4. CONFIRM OPERATION OF ALL EXISTING PTAC UNITS. MAKE ANY ADJUSTMENTS/REPAIRS AS MAY BE REQUIRED.

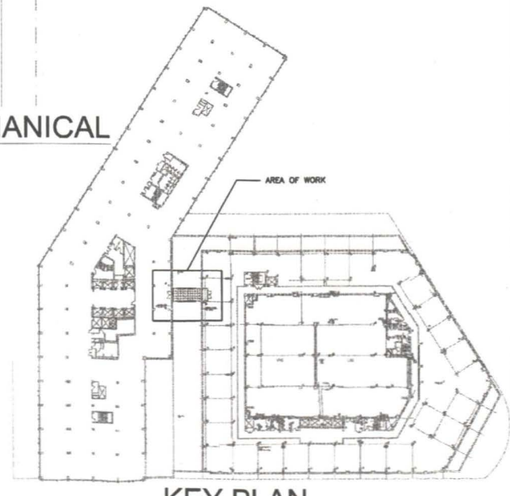
PTAC SCHEDULE

DESIGNATION	SERVING	COOLING		HEATING			ELECTRICAL		BASIS OF DESIGN	REMARKS
		CAPACITY BTUH TOTAL	EER	REV. CYCLE BTUH	SUPPLEMENTAL KW	COP	VOLTS	PHASE		
PTAC–1	9TH TO 10TH FLOOR BRIDGE	11800	10.8	10600	2.9	3.1	208	1	AMANA PTAC MOD. #PTH123B35AE	SEE NOTE 1

1. INCLUDE ALL NECESSARY ACCESSORIES NEEDED FOR COMPLETE INSTALLATION INCLUDING: WALL SLEEVE, FEILD MOUNTED KIT MOD# CDP302 FOR CONDENSATE REMOVAL.

NEW WORK NOTES

1. INSTALL NEW PTAC UNITS PER MANUFACTURER'S RECOMMENDATIONS.
2. DISCHARGE AUXILIARY CONDENSATE TO ATMOSPHERE.



KEY PLAN

SCALE: NONE

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REVISIONS
08-31-04 FOR PERMIT

DRAWING TITLE
8TH TO 9TH FLOOR BRIDGE, 9TH TO 10TH FLOOR BRIDGE, EXISTING AND NEW WORK, AND SCHEDULES - MECHANICAL

PROJECT NO.

DRAWN BY: AK / NP

SCALE: AS INDICATED

DATE: 08-31-04

DWG. NO.

M-2

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SYMBOL LIST

- 2'x2' RECESSED FLUORESCENT LIGHTING FIXTURES. NORMAL POWER. (SEE LIGHTING FIXTURE SCHEDULE). (E) INDICATES EXISTING FIXTURE TO REMAIN.
- 2'x2' RECESSED FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT.
- EXIT LIGHTING FIXTURE – CEILING OR WALL MOUNTED – ARROWS INDICATE DIRECTION NEW LIGHTS TO MATCH EXISTING.
- RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE. WALL WASHER OR DOWN LIGHT.
- LETTER INDICATES TYPE OF LIGHTING FIXTURE. SEE "LIGHTING FIXTURE SCHEDULE"
- S — SINGLE POLE FLUSH TOGGLE SWITCH, 20A, 120/277V 48" A.F.F., U.O.N. LETTER INDICATES OUTLET CONTROLLED.
- S_3 — 3-WAY FLUSH TUMBLER SWITCH, 20A, 120/277V, 48" A.F.F.
- DUPLEX RECEPTACLE – 2P, 3W, 125V, 20 AMP, GROUNDING TYPE, 18" A.F.F. U.O.N. (GFI: INDICATES GROUND FAULT PROTECTED CKT. BKR.) (E) INDICATES EXISTING TO REMAIN N : INDICATES NEW TO MATCH EXISTING
- QUAD RECEPTACLE – 2P, 3W, 125V, 20 AMP, 18" A.F.F., U.O.N. GROUNDING TYPE – MOUNT 18" A.F.F. U.O.N.
- 3W, 125/250V, 20 AMP, HEAT PUMP RECEPTACLE. VERIFY CONFIGURATION WITH EQUIPMENT SUPPLIED.
- TELEPHONE/DATA OUTLET. CONTRACTOR TO PROVIDE A SINGLE GANG RING AND 2–PULL STRINGS, IN WALL WITH INSULATION. PROVIDE (1) 3/4"C STUBBED 6" ABOVE CEILING. CABLING AND COVER PLATES BY TENANTS VENDOR. (E) INDICATES EXISTING TO REMAIN
- WALL / PNL — PANELBOARD RECESSED OR SURFACE MOUNTED.
- BRANCH CIRCUIT HOMERUN TO DESIGNATED ELECTRICAL PANELBOARD. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUIT IN RUN. NUMBER OF CROSSMARKS INDICATES NUMBER OF CONDUCTORS WHEN MORE THAN TWO. PROVIDE GROUND CONDUCTOR WITH ALL HOMERUNS.
- CONDUIT CONCEALED IN WALL OR CEILING.
- GROUND. CONNECTED TO BUILDING GROUND.
- DISCONNECT SWITCH, MINIMUM SIZE, 30A, 3P, 240V, U.O.N.
- MAGNETIC STARTER RATED TO PROTECT MOTOR.
- J, J — JUNCTION BOX IN WALL OR CEILING.
- MOTOR CONNECTION.
- SD — SMOKE DETECTOR – IONIZATION TYPE. (NEW TO MATCH EXISTING).
- F — FIRE ALARM MANUAL STATION WITH INSTRUCTION CARD. (NEW OR EXISTING TO BE RELOCATED TO SATISFY ADA REQUIREMENTS).
- V — FIRE ALARM STROBE. PROVIDE NEW ADA COMPLIANT. TO MATCH EXISTING MODIFY EXISTING FA SYSTEM AS NEEDED. PROVIDE POWER EXTENDERS AS NEEDED. COORDINATE INSTALLATION WITH BUILDING ENGINEER.
- F — FIRE ALARM BELL TO MATCH EXISTING SYSTEM. RELOCATE EXISTING AS NECESSARY TO ACCOMMODATE THE NEW CONSTRUCTION. (SOUTH BUILDING).
- V — FIRE ALARM STROBE. PROVIDE NEW ADA COMPLIANT. TO MATCH EXISTING MODIFY EXISTING FA SYSTEM AS NEEDED. PROVIDE POWER EXTENDERS AS NEEDED. COORDINATE INSTALLATION WITH BUILDING ENGINEER.
- SF — FIRE ALARM SPEAKER TO MATCH SYSTEM UNDER CONSTRUCTION IN THE NORTH BUILDING.
- TS (E), FS (E) — EXISTING FLOW AND TAMPER SWITCH.
- DH — DOOR HOLDER TO MATCH EXISTING. INTERLOCK WITH SMOKE DETECTORS AND F.A. CONTROL PANEL.

LIGHTING FIXTURE NOTES

1. ALL FLUORESCENT FIXTURES SHALL HAVE BALLASTS WIRED FOR 277 VOLTS UNLESS OTHERWISE NOTED AND/OR INDICATED.
2. CONTRACTOR SHALL PROVIDE ALL PLASTER RINGS, PLASTER FRAMES, TRIM RINGS, SLEEVES, CANOPIES, STEM SETS, SLOPE ADAPTERS, ACCESSORIES, AND ASSOCIATED MATERIALS FOR A COMPLETE INSTALLATION FOR ALL FIXTURE TYPES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL FLUORESCENT FIXTURES SHALL BE SUPPLIED WITH ENERGY SAVING ELECTRONIC BALLASTS AND OCTOROON TB, 32 WATT LAMPS, UNLESS NOTED OTHERWISE.
4. ALL INCANDESCENT REFLECTOR LAMPS SHALL HAVE 2500 HOUR LONG–LIFE RATINGS AT 130 VOLTS.

ELECTRICAL NOTES

1. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS OF STRUCTURE. VERIFY DOOR SWINGS BEFORE INSTALLING LIGHT SWITCHES. LOCATE AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. HOMERUNS WITHOUT BRANCH CIRCUIT BREAKER INFORMATION SHALL HAVE 1P, 20A, C/B'S. WHERE CONDUIT SIZE, AND NUMBER AND SIZE OF WIRES IS NOT GIVEN, THE FOLLOWING SHALL APPLY:
   - ONE BRANCH CIRCUIT — 2 #12, 1/2"C.
   - TWO BRANCH CIRCUITS — 3 #12, 1/2"C.
   - THREE BRANCH CIRCUITS — 4 #12, 1/2"C.

   TYPE "MC" IS PERMITTED ABOVE DROP CEILINGS AND IN FRAMED PARTITIONS, NOT PERMITTED, EXPOSED ON WALLS OR CEILING OR EXTERIOR LOCATIONS.
3. THE CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL.
4. PROVIDE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS FOR ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, SWITCHES, STARTERS, TRANSFORMERS, ETC..
5. ALL RECEPTACLE OUTLET LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO PLACEMENT OF SAME.
6. CONTRACTOR SHALL COORDINATE LOCATION AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO SUIT ACTUAL EQUIPMENT BEING PROVIDED.
7. PROVIDE ALL ADDITIONAL WIRES REQUIRED FOR SWITCHING AND CONTROL FUNCTIONS INDICATED OR REQUIRED. INCREASE ASSOCIATED CONDUIT SIZE ACCORDINGLY.
8. ALL WORK SHALL BE CONCEALED UNLESS OTHERWISE INDICATED.
9. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED WORK PERMITS.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH WORK OF OTHER TRADES TO AVOID PHYSICAL INTERFERENCES OR IMPROPER INSTALLATION. FAILURE TO DO SO MAY CAUSE THE CONTRACTOR TO REMOVE AND REINSTALL HIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. BIDDERS SHALL VERIFY LOCAL CODE REQUIREMENTS PRIOR TO BID SUBMITTAL AND SHALL INCLUDE ALL COSTS FOR COMPLETE COMPLIANCE WITH SAME.
12. DO NOT SCALE THE DRAWINGS.
13. CONSULT ARCHITECTURAL PLANS AND DETAILS FOR CONSTRUCTION, HEAD ROOM, ROOM FINISHES, FURRED CEILINGS, EXACT LOCATIONS OF FIXTURES, EQUIPMENT, OUTLETS, ETC.
14. FOR 120 VOLT CIRCUITS 100' OR OVER CONTRACTOR SHALL PROVIDE AND INSTALL #10 AWG WIRING THROUGHOUT CIRCUIT. FOR RUNS OVER 175', INSTALL #8 AWG WIRING. REVISE WIRE SIZES AS NEEDED SO THAT THE VOLTAGE DROP DOES NOT EXCEED 3% OF THE RATED VOLTAGE.
15. DEDICATED CIRCUIT RECEPTACLES SHALL BE LABELED AS SUCH. ALL RECEPTACLES SHALL BE IDENTIFIED BY PANEL AND THE CIRCUIT NO. THEY ARE SUPPLIED FROM. ADHESIVE TAGS TO BE APPROVED BY ARCHITECT.
16. IDENTIFY ALL JUNCTION BOXES ON THE PLATE, INDICATE PANEL, CIRCUIT OR SYSTEM SUPPLIED.

BASIC MATERIALS AND METHODS

1. THE ELECTRICAL RACEWAY SHALL BE CONDUIT WITH A MINIMUM TRADE SIZE OF 1/2 INCH (UON).
2. MOTORS AND VIBRATING EQUIPMENT SHALL BE CONNECTED WITH A SHORT (APPROXIMATELY TWO (2) FEET) LENGTH OF FLEXIBLE METAL CONDUIT OR LIQUID–TIGHT FLEXIBLE METAL CONDUIT (UON).
3. FITTINGS, COUPLINGS AND ACCESSORIES SHALL BE COMPATIBLE WITH THE CONDUIT MATERIAL. FITTINGS AND COUPLINGS FOR ELECTRIC METALLIC TUBING SHALL BE OF STEEL AND SHALL BE OF THE COMPRESSION TYPE.
4. PULL AND JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED AND REQUIRED OF THE TYPE AND SIZE FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM AND SHALL BE ACCESSIBLE.
5. OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL OF THE TYPE AND SIZE APPROVED FOR THE INTENDED USE.
6. DEVICE PLATES SHALL BE AS DIRECTED BY ARCHITECT.
7. IN EMPTY CONDUITS (EC) INSTALL A No.12 THHN OR NYLON PULL WIRE.
8. FLEXIBLE METAL CONDUIT USED FOR CONNECTION OF LIGHTING FIXTURES, RECEPTACLE OUTLETS, AND AS OTHERWISE SHOWN ON DRAWINGS, SHALL BE SUPPORTED AND BONDED IN ACCORDANCE WITH N.E.C. ARTICLE 350 AND 518.
9. ALL CIRCUIT CONDUCTORS SHALL BE MARKED OR TAGGED IN THE PANELBOARDS TO IDENTIFY ITEMS SERVED AND THEIR LOCATION.
10. ALL THE BOXES AND CONDUCTORS SHALL BE MARKED TO INDICATE THE VOLTAGE AND CIRCUIT NUMBERS.
11. MOTOR STARTERS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE N.E.C. THE STARTERS SHALL BE MOUNTED APPROXIMATELY 60 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CHECK THE MOTOR FOR PROPER ROTATION AND PROVIDE OVERLOAD THERMAL UNITS OF PROPER RATING. ABBREVIATIONS, ALL STARTERS, CONTROLLERS, ETC., SHALL BE FURNISHED AND INSTALLED UNDER DIV. 15 AND WIRED AND CONNECTED UNDER DIV. 16.
12. EQUIPMENT, ELECTRICAL ITEMS AND APPURTANCES REQUIRING INSPECTION, MAINTENANCE OR MANUAL OPERATION SHALL NOT BE INSTALLED IN INACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS AS NEEDED.
13. TEST ALL EQUIPMENT, DEVICES, APPURTANCES, SYSTEMS, WIRING, ETC., USED. REPLACE ANY AND ALL DEFECTIVE EQUIPMENT, DEVICES, APPURTANCES, SYSTEMS, WIRING, ETC., BEFORE COMPLETION OF PROJECT.
14. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE CONDITION WHICH MAY AFFECT THE BID.
15. ALL NEW EQUIPMENT AND MATERIAL SHALL BE LABELED BY U.L. OR OTHER ACCREDITED AUTHORITATIVE AGENCIES AND TESTING ORGANIZATIONS.

SPECIFICATIONS

1. SCOPE:
   WORK INCLUDED UNDER THIS SECTION SHALL CONSIST OF ALL MATERIAL LABOR, EQUIPMENT, AND SERVICE INCIDENTAL TO THE INSTALLATION AND TESTING OF A COMPLETE ELECTRICAL SYSTEM, INCLUDING ALL WORK AS HEREIN AFTER SPECIFIED, AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE SYSTEM.
2. GENERAL CONDITIONS:
   A. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL ELECTRICAL CODES AND ALL OTHER APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JUISDICTION.
   B. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR HIS WORK AND SHALL INCLUDE THE COST FOR SAME IN HIS BID.
   C. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE THE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS, AND TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK.
   D. ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS' LABORATORIES, INC., AS CONFORMING IT ITS STANDARDS.
   E. DETAILED AND COORDINATED 1/4" SCALE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR HIS REPRESENTATIVE FOR ALL WORK AND EQUIPMENT TO BE INSTALLED. MODIFY WORK AS NECESSARY TO ACCOMMODATE ALL JOB CONDITIONS AND ALL DISCIPLINES.
   F. IF THE CONTRACTOR FINDS DISCREPANCIES AND/OR ERRORS IN THESE DOCUMENTS, HE SHALL CONTACT THE ARCHITECT AND ENGINEER BEFORE REDDENING HIS BID, AND HIS BID SHALL INCLUDE ALL MATERIAL AND LABOR NECESSARY TO RECTIFY THE PROBLEM.
   G. REVIEW ALL CONTRACT DOCUMENTS AND COORDINATE WITH ALL TRADES. NECESSARY MODIFICATIONS SHALL BE INCLUDED IN THE ORIGINAL BID PROPOSAL.
3. CUTTING AND PATCHING:
   A. WHERE IT IS NECESSARY TO CUT FLOORS, WALLS OR CEILINGS FOR INSTALLATION OF ANY ELECTRICAL WORK, SUCH CUTTING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED BY THE ELECTRICAL CONTRACTOR TO MATCH ORIGINAL CONDITION AND APPEARANCE. BEFORE ANY CUTTING OR PATCHING, THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ARCHITECT.
4. WIRING METHODS:
   A. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM CONDUCTORS WILL NOT BE PERMITTED. INSULATION SHALL BE 600 VOLT TYPE THWN. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG. WIRES SHALL BE COLOR CODED PER NEC.
   B. ALL WIRING SHALL BE INSTALLED IN RIGID STEEL CONDUIT OR EMT. MINIMUM CONDUIT SHALL BE 1/2". ALL EMERGENCY LIGHTING WIRING SHALL BE RUN IN EMT STEEL CONDUIT. FINAL CONNECTIONS TO MOTORS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE CONDUIT. FINAL CONNECTION TO WALL HEATERS SHALL BE MADE WITH TYPE THHN WIRE. TYPE "MC" CABLE WILL BE PERMITTED FOR BRANCH CIRCUITS ABOVE DROP CEILINGS AND IN STUD PARTITIONS. WHERE ALLOWED BY THE CURRENT CODES, PROVIDE CONDUITS OTHERWISE.
   C. ALL CONDUITS AND WIRING SHALL BE RUN CONCEALED IN CEILINGS OR WALLS UNLESS SPECIFICALLY NOTED OTHERWISE.
   D. GROUNDING OF THE ENTIRE ELECTRICAL SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
   E. WRITTEN APPROVAL SHALL BE OBTAINED FROM THE STRUCTURAL ENGINEER BEFORE ANY CORE DRILLING IS BEGUN.
   F. SUPPORT CONDUITS AND CABLES FROM BUILDING STRUCTURE IN A WORKMANLIKE MANNER.
   G. EACH HOMERUN SHALL NOT CONTAIN MORE THAN 3 PHASE GROUND AND NEUTRAL CONDUCTORS.
5. LIGHT FIXTURES:
   A. FIXTURES SHALL BE PROVIDED COMPLETE WITH ALL LAMPS, STRAPS, SUPPORTS, TO BUILDING STRUCTURE, HANGERS, ETC. INSTALL FIXTURES IN A SATISFACTORY MANNER. SUPPORT THE 2'x2' FLUORESCENTS FROM 4 CORNERS FROM STRUCTURE ABOVE.
   B. RELOCATE LIGHTING AS NECESSARY TO ACCOMMODATE JOB CONDITIONS. COORDINATE NEW LOCATION WITH ARCHITECT.
   C. MAINTAIN WIRING TO EXISTING LIGHTING AS NEEDED.
6. CONNECTIONS:
   A. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT. VERIFY EXACT LOCATION AND TYPE OF CONNECTION. COORDINATE EXACT JUNCTION BOX AND POWER REQUIREMENTS FOR NEW EQUIPMENT WITH THE RESPECTIVE CONTRACTORS FURNISHING EQUIPMENT. SECURE CATALOG CUTS FOR EACH ITEM OF EQUIPMENT TO ENSURE CORRECT ROUGH–IN. REVISE CONNECTORS, RECEPTACLES, ETC. AS NEEDED TO SATISFY ALL REQUIREMENTS.
7. GUARANTEE:
   A. THE CONTRACTOR SHALL SERVICE AND GUARANTEE ALL WORKMANSHIP AND MATERIALS TO BE AS REQUIRED BY PLANS AND SPECIFICATIONS AND AS REPRESENTED BY HIM AND SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY PART THERE OF WHICH MAY BECOME DEFECTIVE, EXCEPT FOR NORMAL WEAR AND TEAR, WITHIN A PERIOD OF ONE (1) YEAR AFTER THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT.
   B. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.
   C. PROVIDE AS–BUILT DRAWINGS, MAINTENANCE AND OPERATING MANUAL, WARRANTIES FOR ALL EQUIPMENT, ETC. TO THE OWNER AT THE TIME OF COMPLETION OF THE PROJECT.
8. CERTIFICATE OF COMPLIANCE:
   A. THE CONTRACTOR SHALL ARRANGE AND COORDINATE HIS INSPECTION WITH BRANCHES ASSOCIATED WITH THIS PROJECT. PROVIDE THE OWNER WITH ALL CERTIFICATES OF COMPLIANCE REQUIRED FOR OCCUPANCY PERMIT.
9. DISTRIBUTION SYSTEM AND PANELBOARDS:
   A. THE CONTRACTOR SHALL MODIFY EXISTING PANELBOARDS AND BREAKERS AS NECESSARY.
   B. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY AND NEW TYPE WRITTEN DIRECTORIES.
   C. NEW PANELS TO HAVE COPPER BUS, BOLT–ON CKT BKRS, DIRECTORIES ETC.
10. DEMOLITION:
    A. REMOVE ALL EXISTING OBSOLETE WORK INCLUDING FEEDERS, LIGHTING, BRANCH CIRCUITS, DEVICES, ETC., FROM WITHIN THE AREA OF WORK.
    B. RELOCATE EXISTING EQUIPMENT AS NECESSARY TO ACCOMMODATE THE REQUIRED WORK.
11. WIRING DEVICES:
    A. ALL WIRING DEVICES INCLUDING SWITCHES, RECEPTACLES, AND TELEPHONE/DATA OUTLETS SHALLMATCH EXISTING GREY COVER PLATES AND BODIES.
    B. PROVIDE COMMON PLATE FOR ALL GROUP–MOUNTED RECEPTACLES, SWITCHES, DIMMERS, ETC. PROVIDE DIVIDED BOXES AS NEEDED AND REQUIRED BY CODES.
    C. ALL NEW OUTLETS SHALL BE INSTALLED ON CLEAR WALL SPACES. ITEM IMPROPERLY LOCATED SHALL BE RELOCATED AS DIRECTED BY ARCHITECT/ENGINEER AT CONTRACTOR'S EXPENSE.
12. GROUNDING:
    A. GROUNDING SHALL BE PROVIDED AS REQUIRED BY ALL APPLICABLE CODES AND AS INDICATED ON THE DRAWINGS.
    B. PROVIDE ALL WIRING, ELECTRODES, EQUIPMENT AND ACCESSORIES AS REQUIRED.
13. FIRE ALARM SYSTEM:
    A. PROVIDE NEW F.A. EQUIPMENT AS NECESSARY.
    B. FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE CODES AND SATISFY ALL FIRE MARSHAL'S REQUIREMENTS. RELOCATE EQUIPMENT AS NEEDED.
    C. SUBMIT COMPLETE SHOP DWGS TO THE FIRE MARSHAL AND ENGINEER FOR APPROVAL.
    D. NEW F.A. EQUIPMENT TO MATCH EXISTING SYSTEM.
    E. MODIFY EXISTING EQUIPMENT AS NEEDED. PROVIDE POWER EXTENDERS AND MODIFY THE EXISTING F.A. CONTROL AND ANNUNCIATOR PANELS AS NEEDED. TO ACCOMMODATE THE NEW FIRE ALARM DEVICES.
    F. FINAL CONNECTION OF THE NEW F.A. DEVICES MAY BE PROVIDED BY A BLDG DESIGNATED F.A. INSTALLER BUT AT CONTRACTOR'S EXPENSE.
    G. COORDINATE WITH THE NEW F.A. SYSTEM OF THE NORTH BLDG. AND WITH THE EXISTING F.A. SYSTEM OF THE SOUTH BLDG.
14. TEMPORARY POWER AND LIGHTING:
    A. PROVIDE ALL REQUIRED TEMPORARY POWER AND LIGHTING TO SATISFY THE PROJECT CONDITIONS AND ALL SAFETY STANDARDS.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMP TYPE	LAMPS	MTG	REMARKS
A	LITHONIA	2PM3–G–B–2U31–9LD GEB	FLUOR.	2–U 31W 3500 K	RECESSED	
B	LITHONIA	LE–S–W1R–120/277 ELNSD WITH DIRECTIONAL ARROW AS NEEDED	LED	INCLUDED		TO SATISFY ALL APPLICABLE CODES AND MATCH EXISTING.
C	EXISTING 2'x2' PARABOLIC LENS FLUORESCENT LIGHTING FIXTURE TO BE REMOVED AND RELOCATED AS INDICATED TO ACCOMMODATE THE ROOF REMOVAL CLEAN, REPAIR AND RELAMP AS NEEDED. REWIRE AS REQUIRED. SUPPORT FIXTURE FROM STRUCTURE ABOVE.					
D	EXISTING EXIT LIGHTING FIXTURE TO BE REMOVED AND RELOCATED AS INDICATED TO ACCOMMODATE THE ROOF REMOVAL CLEAN, REPAIR AND RELAMP AS NEEDED. REWIRE AS REQUIRED. SUPPORT FIXTURE FROM STRUCTURE ABOVE.					

NOTE: (ELECTRICIAN TO VERIFY REQUIRED VOLTAGE FOR ALL FIXTURES PRIOR TO ORDERING).

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	FACP	FIRE ALARM CONTROL PANEL	NFSS	NON–FUSED (SAFETY SWITCHES)
A/C	AIR CONDITIONING (UNIT)	FLUOR.	FLUORESCENT	N.I.C.	NOT IN CONTRACT
A.H.U.	AIR HANDLING UNIT	F.S.S.	FUSED SAFETY SWITCH	PNL.	PANEL
A.W.G.	AMERICAN WIRE GAUGE	GFI	GROUND FAULT INTERRUPTER	PH.	PHASE
A.I.C.	AMPS INTERRUPTING CAPACITY	H.D.	HEAVY DUTY MPE	P	POLE(S)
CLG.	CEILING	LTG.	LIGHTING	(R)	EXISTING ITEM TO BE REMOVED
CKT.	CIRCUIT	HP	HORSEPOWER	RECPT.	RECEPTACLE
C/B	CIRCUIT BREAKER	HWH	HOT WATER (HEATER)	R.L.A.	RUNNING LOAD AMPERES
C	CONDUIT	IG	ISOLATED GROUND	(RR)	EXISTING ITEM TO BE REMOVED AND RELOCATED
CU.	COPPER	KW	KILOWATTS	SW.	SWITCH
DEMO.	DEMOLITION	MH	MANHOLE	SWB.	SWITCHBOARD
DISC.	DISCONNECT	MCA	MAIN CIRCUITS AMPS	TELE.	TELEPHONE
DWG.	DRAWING	MCB	MAIN CIRCUIT BREATER	U.H.	UNIT HEATER
E (E)	EXISTING TO REMAIN	MDP	MAIN DISTRIBUTION PANEL	U.O.N.	UNLESS OTHERWISE NOTED
E.W.C.	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	XFMR	TRANSFORMER
ELEC.	ELECTRICAL	M	MOUNTED	XFMR SW	TRANSFER SWITCH
EMERG.	EMERGENCY	N.E.C.	NATIONAL ELECTRICAL CODE		
E.C.	EMPTY CONDUIT				
E.F.	EXHAUST FAN				

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REVISIONS
08-31-04 FOR PERMIT

DRAWING TITLE
NOTES, SYMBOL LISTS ABBREVIATIONS SCHEDULE ELECTRICAL

PROJECT NO.

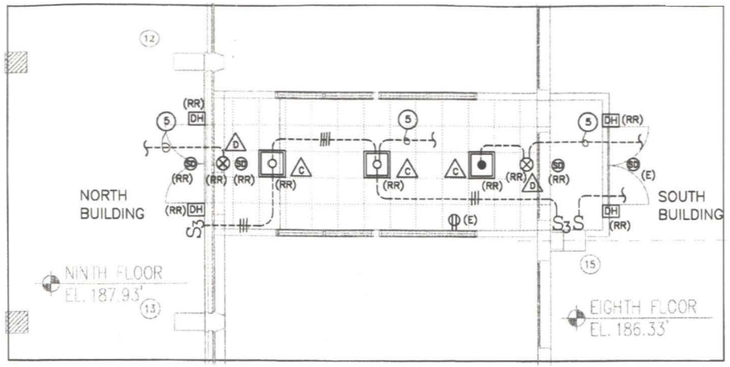
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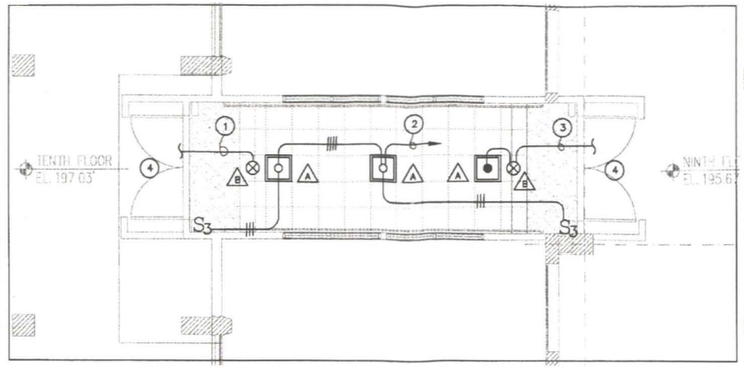


9th TO 10th FLOOR BRIDGE - EXISTING - ELECTRICAL

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

NOTES

1. REMOVE AND RELOCATE THE EXISTING ELECTRICAL WORK AT THE CEILING OF THE BRIDGE TO ACCOMMODATE THE PROVISION OF THE NEW FLOOR.
2. MODIFY WIRING AS NEEDED.
3. AFTER THE INSTALLATION OF THE NEW FLOOR REINSTALL LIGHTS, FIRE ALARM DEVICES WIRING AND OTHER WORK TO MATCH ORGINAL WORK.
4. COORDINATE WORK WITH THE UNIVERSALNORTH FIRE INSTALLER AND INTERLOCK NEW "EDWARDS" FIRE ALARM SMOKE DETECTORS WITH THE DOOR HOLDERS FOR AUTOMATIC DOOR RELEASE UPON ACTIVATION OF THE SMOKE DETECTORS.
5. EXISTING CIRCUIT TO BE REMOVED AND BE PROVIDE WITH NEW WHEN THE CEILING IS REINSTALLED.

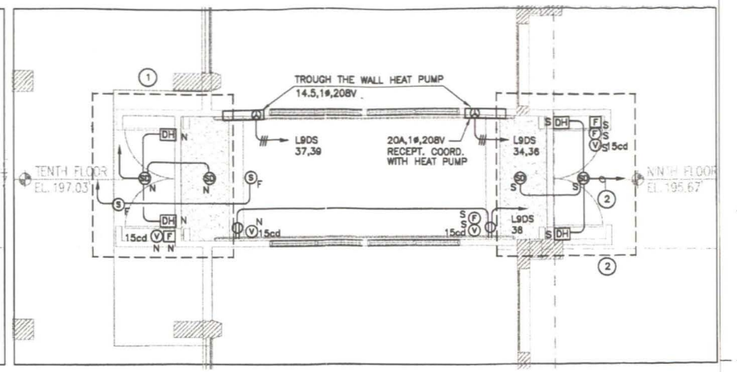


9th TO 10th FLOOR BRIDGE - NEW WORK - LIGHTING

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

NOTES

1. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT OF THE 9th FLOOR WITH 2#12+1#12G-1/2"C
2. TO A 1P-20A CIRCUIT BREAKER IN EXISTING 277/480V PANEL "H9D" WITH 2#12+1#12G-1/2"C.
3. TO THE EXISTING EMERGENCY CIRCUIT OF THE 9th FLOOR OF THE SOUTH BUILDING.
4. THE MODIFICATION OF THE EXISTING TENANT SPACE INCLUDING RELOCATION OF WALL RADIANT HEATERS, INDUCTION UNITS, LIGHTING, RECEPTACLES, ETC. SHALL BE PERFORMED UNDER THE TENANT UPGRADE. SMOKE DETECTORS.

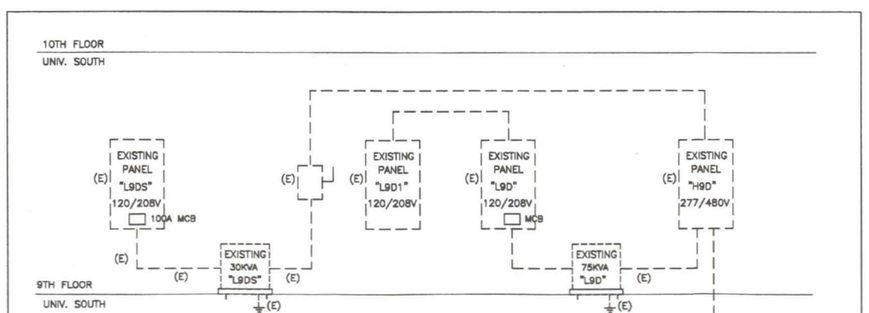


9th TO 10th FLOOR BRIDGE - NEW WORK - POWER

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

NOTES

1. PROVIDE NEW FIRE ALARM DEVICES TO MATCH THE NEW HIGHT RISE F.A. SYSTEM (EDWARDS) PRESENTLY INSTALLED IN THE NORTH BUILDING COORDINATE WITH THE NEW F.A. INSTALLER. PROVIDE NEW SMOKE DETECTORS, DOOR HOLDERS, PULL STATIONS, STROBES AND AUDIABLE DEVICES AS INDICATED AND REQUIRED.
2. PROVIDE NEW FIRE ALARM DEVICES TO MATCH THE EXISTING "GAMEWELL" FIRE ALARM SYSTEM OF THE UNIVERSAL BLDG.
3. MODIFY EXIT F.A. PANELS AS NEEDED TO ACCOMMODATE THE NEW DEVICES PROVIDE NEW EQUIPMENT AS NEEDED. REVISE F.A. ANNUNCIATOR PANELS TO INDICATE THE NEW BRIDGE LEVEL.
4. REFER TO THE 9th FLOOR KEY PLAN TO FOR APPROXIMATE LOCATION OF PANELBOARDS.
5. UPON ACTIVATION OF THE F.A. SMOKE DETECTOR OR PULL STATION OF ANY BLDG THE DOORS HOLDERS OF THAT BUILDING WILL RELEASE THE DOORS AND THE ALARM ON THAT BUILDING WILL BE ACTIVATED. PROVIDE AN INDICATING LIGHT IN THE ANNUNCIATOR PANEL OF BOTH BUILDINGS THAT WILL BE ACTIVATED UPON ACTIVATION OF THE FIRE ALARM SYSTEM OF THE ADJACENT BLDG. COORDINATE WITH THE WORK PROVIDED IN THE LOWER BRIDGES.



EXISTING PARTIAL POWER RISER DIAGRAM

NOT TO SCALE

EXISTING PANEL TO BE MODIFIED

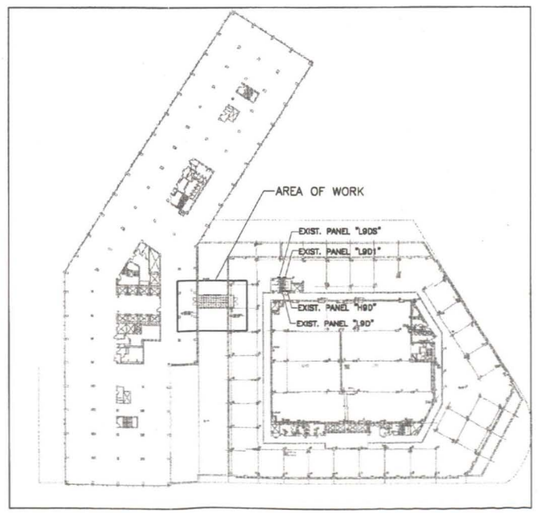
PANELBOARD SCHEDULE

PANEL: "L9DS" | LOCATION: 9TH FLOOR ELECTRICAL | FEEDER: EXISTING | MAINS: EXIST. 125A MCB | A.I.C.: 22K
VOLTAGE: 120/208V | PHASE: 3 | WIRE: 4W | BUSSING: 100A | FED FROM: XFMR "T9D1" | MOUNTING: SURFACE

DESCRIPTION	WIRING	COND.	KVA A@	KVA B@	KVA C@	BRANCH BREAKER AMPS	CKT NO.	ABC	CKT NO.	BRANCH BREAKER AMPS	KVA A@	KVA B@	KVA C@	WIRING	COND.	DESCRIPTION
EXISTING	EXIST.	EXIST.	(E)			1/20	1		2	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	3		4	1/20		(E)		EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.			(E)	1/20	5		6	1/20			(E)	EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.	(E)			1/20	7		8	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	9		10	1/20		(E)		EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.			(E)	1/20	11		12	1/20			(E)	EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.	(E)			1/20	13		14	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	15		16	1/20		(E)		EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.			(E)	1/20	17		18	1/20			(E)	EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.	(E)			1/20	19		20	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	21		22	1/20		(E)		EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.			(E)	1/20	23		24	1/20			(E)	EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.	(E)			1/20	25		26	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	27		28	1/20		(E)		EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.			(E)	1/20	29		30	1/20			(E)	EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.	(E)			1/20	31		32	1/20	(E)			EXIST.	EXIST.	EXISTING
EXISTING	EXIST.	EXIST.		(E)		1/20	33		34	2/20(H)		1.0		2#12+1#12G	1/2"	HEAT PUMP 1
EXISTING	EXIST.	EXIST.			(E)	1/20	35		36				1.0	2#12+1#12G	1/2"	RECEPTACLES
HEAT PUMP 1	2#12+1#12G	1/2"	1.0			2/20(H)	37	A	38	3/20(H)	A					
SPARE	--	1/2"		1.0			39		40	1/20						
			--		--	1/20	41		42	1/20						
		SUBTOTALS:	5.0	5.0	4.0						SUBTOTALS:	5.0	5.0	5.0		

"A" PHASE TOTAL: 10.0 | "B" PHASE TOTAL: 10.0 | "C" PHASE TOTAL: 0.9
TOTAL LOAD: 29.0 KVA AT | VOLTS, 3 PHASE, 4 WIRE 80A AMPS
HIGH PHASE: 10.0 KVA AT 120V | VOLTS, 1 PHASE 83.3 AMPS

(83.3Ax1.25 (SF) = 104A PANEL IS RATED FOR 125A)



KEY PLAN 9th TO 10th FLOOR

SCALE: NTS

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REVISIONS
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DRAWING TITLE
PART. 9TH TO 10TH FLOOR PLANS
DEMOLITION AND NEW WORK
PART. POWER RISER DIAGRAM
SCHEDULE
ELECTRICAL

PROJECT NO.

DRAWN BY:
AK / NP

SCALE
AS INDICATED

DATE:
08-31-04

DWG. NO.
E-2

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