GENERAL NOTES

1 ALL CIRCUITS SHALL BE A MINIMUM OF ¾"C W/ 2#12 & 1#12G UNLESS NOTED OTHERWISE ON THE DRAWINGS OR AS REQUIRED TO MEET THE LATEST EDITION OF NFPA 70 BASED ON THE LOAD AND OVERCURRENT PROTECTION.

2 GENERALLY ALL RACEWAYS AND OUTLET BOXES SHALL BE INSTALLED CONCEALED IN ALL AREAS OF THE BUILDING. EXPOSED CONDUIT AND BOXES WILL BE PERMITTED IN EXPOSED CEILING OR WHERE CONCEALMENT OF CONDUIT AND BOXES IS NOT PRACTICAL AS DETERMINED BY THE ARCHITECT. COORDINATE LOCATIONS OF EXPOSED/SURFACE MOUNTED BOXES/CONDUIT/RACEWAY PRIOR TO PROCEEDING.

3 THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL FIRE RATED WALLS, FLOORS AND CEILINGS. THE MATERIAL USED FOR MAINTAINING THE FIRE RATING MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE WALL, FLOOR OR CEILING. ALL MATERIAL USED FOR MAINTAINING THE FIRE RATING MUST BE APPROVED BY THE ENGINEER.

4 PROVIDE A FISH LINE IN ALL EMPTY CONDUIT INCLUDING FLEXIBLE CONDUIT.

5 ALL CIRCUIT BREAKER POLES IN PANELBOARDS THAT ARE NOT USED SHALL BE EQUIPPED WITH CLOSURE COVERS, IF KNOCKOUT PIECE HAS BEEN REMOVED.

6 THE CONTRACTOR SHALL INSURE THAT FEEDER AND BRANCH CIRCUIT WIRING LENGTHS ARE KEPT AS SHORT AS PRACTICAL. THE CONTRACTOR SHALL REVIEW WIRING METHODS WITH THE PROFESSIONAL PRIOR TO EXECUTION OF THE WORK.

7 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS BEFORE ROUGHING IN FOR THE OUTLET. THE ARCHITECT OR OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLET ON THE PROJECT TEN (10) FEET FROM THE LOCATION INDICATED ON THE PLANS, PRIOR TO ROUGHING IN FOR THE OUTLET.

8 THE CONTRACTOR SHALL VERIFY ADEQUATE RECESSED DEPTH REQUIREMENTS FOR ALL RECESSED LIGHT FIXTURES WITH THE VARIOUS TRADES PRIOR TO ANY ROUGH–IN WORK TO BE DONE FOR THESE LIGHT FIXTURES.

9 THE CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO VERIFY ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF ALL WORK.

10 THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL DRAWINGS AND THE GENERAL CONTRACTOR PRIOR TO ANY ROUGH–IN WORK TO DETERMINE EXACT LOCATIONS AND ELEVATIONS.

11 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL OUTLET LOCATIONS SHOWN ON THE DRAWINGS FOR THE DATA/TELEPHONE/COMMUNICATIONS SYSTEMS WITH THE RESPECTIVE SYSTEM INSTALLER PRIOR TO THE EXECUTION OF ANY ROUGH–IN WORK.

12 NEW FIRE ALARM DEVICES INDICATED SHALL BE COMPATIBLE WITH AND BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM. FIELD VERIFY DURING BIDDING ALL MODIFICATIONS AND/OR ADDITIONAL HARDWARE/SOFTWARE REQUIRED TO CONNECT DEVICES INDICATED.

GENERAL ELECTRICAL NOTES

G1. PATCH, REPAIR AND COMPLETE REMAINING WORK DAMAGED BY OR DISTURBED BY THIS WORK, WITH IN–KIND MATERIAL TECHNIQUES AND FINISHES

G2. ALL WORK SHALL BE IN COMPLIANCE WITH NEC AND ALL OTHER APPLICABLE CODES.

G3. THE DRAWINGS ARE INDICATIVE OF THE WORK TO BE INSTALLED. ALL OUTLET LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK. PROVIDE ALL WORK AS SHOWN REQUIRED AND INFERRED BY THE DRAWINGS.

G4. ALL WIRING THAT IS RUN IN CONDUIT SHALL USE EMT WITH COMPRESSION CONNECTORS. MC CABLE IS ACCEPTABLE FOR USE IN EXISTING WALLS AND FOR FIXTURE WHIPS. CONDUITS SHALL BE SIZED PER NEC REQUIREMENTS (3/4"C MIN.).

G5. ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO CONDUIT, WIRE, BOXES, AND FITTINGS, SHALL BE NEW AND FREE OF DEFECTS, AND SHALL BEAR THE UL LABEL, AND SHALL MEET NEMA AND ANSI STANDARDS.

G6. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.

G7. APPLY FIRE STOPPING TO ELECTRICAL PENETRATIONS OF FIRE–RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE–RESISTANCE RATING OF ASSEMBLY. CORRIDOR WALLS SHALL BE CONSIDERED FIRE RATED.

G8. CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARDS SHALL MEET OR EXCEED EXISTING "AIC" RATINGS OF BREAKERS.

G9. CONTRACTOR SHALL IDENTIFY W/ LABELS ON THE BACK OF OUTLET AND SWITCH COVERS FROM WHICH ELECTRICAL PANEL SERVICE IS BEING PROVIDED.

G10. EC IS RESPONSIBLE FOR ALL TELECOMMUNICATION ROUGH–IN WORK. PROVIDE JUNCTION BOX AND 3/4" CONDUIT(S) TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL CORD IN EACH CONDUIT FOR FUTURE USE.

ELECTRICAL SYMBOLS

		MTG. (AFF)
LIGHTING		
A	LIGHTING FIXTURE TYPE	----
	NEW FLUORESCENT LIGHTING FIXTURE	AS NOTED
	EXISTING FLUORESCENT LIGHTING FIXTURE	----
	WALL MOUNTED LIGHT FIXTURE	6" ABOVE MIRROR
	EXIT SIGN	----
	DOWN LIGHT RECESSED LIGHTING FIXTURE	CLG
	NEW EMERGENCY LIGHTING FIXTURE	CLG
OS M	OCCUPANCY SENSOR (MOTION DETECTION)	CLG
SWITCHES		
S	20A SINGLE POLE LIGHTING SWITCH	46"
S_{OC}	SINGLE POLE LIGHTING SWITCH W/ OCCUPANCY SENSOR	46"
POWER		
	NEW 20A DUPLEX RECEPTACLE (DR) TYP.	18"
	EXISTING DUPLEX RECEPTACLE (DR) TYP.	18"
	DUPLEX RECEPTACLE (DR) TO BE DEMOLISHED TYP.	18"
GFI	DUPLEX RECEPTACLE (DR) – GFI TYPE	18"
	DUPLEX RECEPTACLE – CEILING	CLG
	EXISTING ELECTRICAL PANEL	----
FIRE ALARM		
	SMOKE DETECTOR	CLG
SI	COMBINATION FIRE ALARM HORN/STROBE	80" AFF OR 6" BELOW CLG (WHICHEVER) IS LOWER)
	FIRE ALARM STROBE	80" AFF OR 6" BELOW CLG (WHICHEVER) IS LOWER)
TELECOMMUNICATIONS		
	TELECOMMUNICATIONS OUTLET. PROVIDE DOUBLE GANG BOX WITH BLANK COVERPLATE AND (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING.	18" UNO
S	WALL MOUNTED SPEAKER	MATCH EXISTING
CB	CALL BUTTON	MATCH EXISTING

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
BD	BUSDUCT
BFC	BELOW FINISHED CEILING
C	CONDUIT
CGS	COX GRAAE & SPACK
CIRC	CIRCULATION
CLG	CEILING
CO	CONTACTOR
COMP	COMPRESSOR
CR	CONSOLE RECEPTACLE
CS	CONTROL STATION
DR	DUPLEX RECEPTACLE
DS	DAYLIGHT SENSOR
DWG	DRAWING
EBM	EXISTING TO BE MODIFIED
EBR	EXISTING TO BE REMOVED
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ER	EXISTING REMAINED
ERR	EXISTING TO BE RELOCATED
ERV–XX	ENERGY RECOVERY VENTILATOR XX – DENOTES UNIT NUMBER
ETR	EXISTING TO REMAIN
EXTG	EXISTING
FBO	FURNISHED BY OTHERS INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR
FC	FLUORESCENT CONTROL
FDBI	FLUORESCENT DIMMING BALLAST INTERFACE
FLA	FULL LOAD AMPERE
G	GROUND WIRE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HT	HEIGHT
ID	IDENTIFICATION
INTC	INTERCOM
JB	JUNCTION BOX
LTG	LIGHT, LIGHTING
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MECRP	MASTER EQUIPMENT CONTROL RELAY PANEL
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MPB	MULTI–PURPOSE BUILDING
MTD	MOUNTED
MTG	MOUNTING
MU	MAIN UNIT
NEC	NATIONAL ELECTRIC CODE
NF	NON FUSED
P	POLE
PC	PHOTOCELL
PDC	PORTABLE DIMMING CONSOLE
PH	PHASE
R	RELAY
REC	RECEPTACLE
RMC	RIGID METALLIC CONDUIT
RTU	ROOFTOP UNIT
SMR	SURFACE MOUNTED RACEWAY
TBB	TELEPHONE BACK BOARD
TC	TIME CLOCK
TSP	TWISTED SHIELDED PAIR
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHERPROOF

NOTE:
SEE ARCHITECTURAL INTERIOR ELEVATIONS, FLOOR PLANS, AND / OR REFLECTED CEILING PLANS (AS APPROPRIATE) FOR SPECIFIC LOCATIONS OF PANELS, FIXTURES, CONTROLS, OUTLETS, SWITCHES, DRAINS, DEVICES, DIFFUSERS, ETC. ANY LOCATIONS SHOWN FOR THESE OR SIMILAR ITEMS ON THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER LOCATIONS SHOWN ON THE MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS. CONTACT THE ARCHITECT FOR EXACT LOCATIONS OF ANY VISIBLE ITEMS INDICATED ON THE MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS THAT ARE NOT SPECIFICALLY SHOWN ON THE ARCHITECTURAL INTERIOR ELEVATIONS, FLOOR PLANS, AND / OR REFLECTED CEILING PLANS. THE LOCATION OF ALL SUCH MECHANICAL, PLUMBING, OR ELECTRICAL DEVICES SHOULD BE COORDINATED/CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGH–IN.

ELECTRICAL DEMOLITION NOTES:

1. CONTRACTOR SHALL RESTORE ALL AREAS AND SYSTEM AND ASSOCIATED DEVICES, COMPONENTS, ETC., DISTURBED BY HIS WORK TO THE SATISFACTION OF THE OWNER.
2. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO ASCERTAIN CONDITIONS WHICH MAY EFFECT HIS BID AND WORK, AND HE SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL REQUIRED DEMOLITION AND AREAS UNDERGOING MODIFICATION WHETHER OR NOT SUCH WORK IS INDICATED ON PLANS OR SCHEDULES.
3. ALL MATERIAL TO BE REMOVED SHALL BE REMOVED FROM THE JOB SITE COMPLETELY.
4. THE CONTRACTOR SHALL TAKE A CAREFUL LOOK AT ALL OF THE EXISTING ELECTRICAL POWER AND SYSTEMS PRIOR TO DEMOLITION OF THE EXISTING SPACE OR EQUIPMENT/SYSTEMS. VERIFY ALL EXISTING CIRCUITS AND THEIR EXISTING COORDINATING PANELBOARD OVERCURRENT PROTECTION DEVICE SIZE AND LOCATIONS. DO NOT ASSUME WHERE EXISTING CIRCUITS MAY BE LOCATED OR WHICH CIRCUIT BREAKERS ARE PROTECTING WHICH LOADS WITHIN THE EXISTING SPACE.
5. WHERE ELECTRICAL DEVICES AND EQUIPMENT(RECEPTACLES, LIGHTING FIXTURES, SWITCHES, ETC.) ARE EXISTING TO REMAIN, CONTRACTOR SHALL MAINTAIN EXISTING CIRCUITING TO THOSE DEVICES. WHERE CIRCUITING TO EXISTING DEVICES AND EQUIPMENT IS DISCONNECTED BY WORK IN ADJACENT SPACES, THE CONTRACTOR SHALL RECONNECT THE REMAINING EXISTING DEVICES AND EQUIPMENT TO NEW DEVICES AS INDICATED OR TO THE REMAINING UNDISTURBED PORTION OF EXISTING CIRCUIT.
6. EC TO REMOVE DEVICES AS NOTED. THIS WORK WILL INCLUDE THE CONDUIT AND WIRING FOR DEVICES. TAKE DOWN CONDUIT TO A POINT WHERE PRACTICAL. DO NOT DISTURB EXISTING SYSTEM.

GRACE

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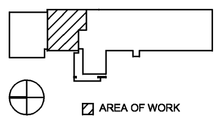
KEY PLAN NORTH BUILDING



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NOTES SYMBOLS AND ABBREVIATIONS

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