PIMA COMMUNITY COLLEGE TRANSPORTATION CENTER ADDITIONAL EQUIPMENT

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1255 N STONE AVE TUCSON, AZ **CONSTRUCTION DOCUMENTS - 100%**







GENERAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
ADA	AMERICANS WITH DISABILITY ACT
ADDN	ADDITION OR ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BSMT	BASEMENT
CL CLG CM CONC CONN(S) CONST CONT CONTR CONTR CTR	CENTER LINE CEILING CENTIMETER CONCRETE CONNECTION(S) CONSTRUCTION CONTINUOUS CONTRACT(OR) CENTER
D	DEPTH
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIV	SPECIFICATION DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EXST	EXISTING
EXT	EXTERIOR
FIN	FINISHED
FL	FLOOR
FT	FEET
FUT	FUTURE
GC GOVT	GENERAL CONTRACTOR
H	HEIGHT
HORIZ	HORIZONTAL
HT	HEIGHT
i.e.	THAT IS
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
M	METER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
oc	ON CENTER
opp	OPPOSITE
ovhd	OVERHEAD
PAR	PARALLEL
PENT	PENTHOUSE
PLYWD	PLYWOOD
QTY	QUANTITY
REQ(D)	REQUIRE(D)
REV	REVISION(S)
RM	ROOM
RND	ROUND
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SYM	SYMETRICAL
TEMP	TEMPORARY
TYP	TYPICAL
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT

GENERAL NOTES

GENERAL SYMBOLS

?	DETAIL NUMBER CROSS REFERENCE		EARTH
	SHEET NUMBER		GRAVEL
<x (a4.xx)<="" th=""><th>BUILDING ELEVATION</th><th></th><th>SAND</th></x>	BUILDING ELEVATION		SAND
XX		Å Å	CONCRET
XX A12.X XX	INTERIOR ELEVATION	# * *	PRECAST
XX			STEEL
•	SIMILAR OR TYPICAL		STONE
2 SIM	REFERENCE	$\left[\right]$	CONCRET
2777	WALL SECTION		BRICK VEI
?	DETAIL REFERENCE		GYM FLOO
???			WOOD
? ?			(NON-CON
111 111	BUILDING SECTION		WOOD (TF
X	SHEET NOTE		GLASS
?	REFERENCE KEYNOTE		SHINGLES
			PLYWOOD
?	COLUMN GRID LINE	- 1- 1 ² - 1 <u>-</u> 1 - 1- 1 ² - 1 <u>-</u> 1 - 1 - 1	GYPSUM \
	ROOM NUMBER/NAME		BLANKET
			RIGID INSU
x <u>xx-x</u> x	REVISION NUMBER		SPRAY FO
	LEVEL ELEVATION		MINERAL
XXX-XX [*] •			PROTECT
TYP FF EL=	FINISH FLOOR		CARPET (I
100'-0"	ELEVATION		ACOUSTIC
100'-0"	SPOT ELEVATION		TILE (LARC

ို္ပ္ပံု	GRAVEL
	SAND
▼	CONCRETE
	PRECAST CONCRETE
	STEEL
$\overline{\mathbf{x}}$	STONE
	CONCRETE MASONRY UNIT
	BRICK VENEER
\square	GYM FLOOR
<	WOOD (CONTINUOUS BLOCKING)
	WOOD (NON-CONTINUOUS BLOCKING)
	WOOD (TRIM/FINISH)
, di	GLASS
	SHINGLES
	PLYWOOD (LARGE SCALE)
17 - 1 - 1 - 1 - 1	GYPSUM WALL BOARD
\mathbf{X}	BLANKET INSULATION
\sum	RIGID INSULATION
	SPRAY FOAM INSULATION
	MINERAL WOOL INSULATION
	PROTECTION BOARD
	CARPET (LARGE SCALE)
	ACOUSTIC TILE (LARGE SCALE)
	TILE (LARGE SCALE)

SITE SYMBOLS

	PROPE
	LOT LIN
	EASME
	BUILDIN
	BUILDIN OPENIN
	PRIMAR
100	PRIMAR
99	SECON
99	SECON
1% SLOPE	SLOPE,
	DRAINA
·	STREET
	CURB, 1
	CURB, E
	CURB, 1
	PAVING
KCJ	PAVING
— <u> </u>	PAVING
EJ	PAVING
- xx - xx - xx - xx -	FENCE,
- x x x x	FENCE,
-000	FENCE,
	FENCE,
	SEED L
	SOD LIN
	FOUND
 FD 	FOUND
— — — PSD — — —	SUBDR
S	SANITA
FM	FORCE
	WATER
F	FIRE
G	GAS
HPS	HIGH PI
MPS	MEDIUN
LPS	LOW PF
UGE/UGT	UNDER
— - — OHP— - —	OVERH
——— НОТ ———	LAWN S
LAT	LAWN S

5		
PROPERTY LINE		AREA INLET
LOT LINE	0	CURB INLET
EASMENT LINE	•	MANHOLE
BUILDING LINE, EXISTING	(HEAD WALL
BUILDING LINE, NEW W/DOOR OPENING AND STRUCTURAL STOOP		FLARED END
PRIMARY CONTOUR, EXISTING	•	CLEAN OUT
PRIMARY CONTOUR, NEW]	CAP
SECONDARY CONTOUR, EXISTING		THRUST BLOCK
SECONDARY CONTOUR, NEW	►◀ PIV	VALVE
SLOPE, PAVEMENT	M	POST INDICATOR VALVE
DRAINAGE DITCH OR SWALE	\square	REDUCER
STREET CENTERLINE	FH	FIRE HYDRANT
CURB, THICKENED EDGE	۶	POWER POLE
CURB, EXISTING	□●	LIGHT POLE
CURB. NEW	•	TELEPHONE MANHOLE
PAVING CONTRACTION JOINT		TELEPHONE BOX
PAVING KEYED CONSTRUCTION JOINT	٠	SPRINKLER HEAD, 360°
PAVING TIED CONSTRUCTION JOINT	•	SPRINKLER HEAD, 270°
	•	SPRINKLER HEAD, 180°
FENCE SECURITY	O	SPRINKLER HEAD, 90°
	⊗ ^{QC}	QUICK COUPLING
	$\oslash^{X^{w}}$	TREE, EXISTING DECIDUOUS
	\oslash^{X}	TREE, EXISTING CONIFER
SEED LIMIT	for the second	SHADE TREE
SOD LIMIT	L. J	
FOUNDATION DRAIN, NON-PERFORATED	CHANNEL MAN	ORNAMENTAL TREE
FOUNDATION DRAIN, PERFORATED	\mathbf{X}	DECIDUOUS TREE
SUBDRAIN, PERFORATED	< <u></u> </td <td>SHRUB</td>	SHRUB
SANITARY SEWER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
FORCE MAIN	()	
WATER		
FIRE		
GAS		
HIGH PRESSURE STEAM		
MEDIUM PRESSURE STEAM		
LOW PRESSURE STEAM		
UNDERGROUND ELEC/TELEPHONE		
OVERHEAD POWER		
LAWN SPRINKLER HOT LINE		
LAWN SPRINKLER LATERAL		

H. COORDINATE WITH MECHANICAL AND ELECTRICAL J. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT INDICATED IN THE CONTRACTOR'S BID. K. GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.

ON THIS PROJECT. DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

A. GENERAL NOTES APPLY TO ALL SHEETS.B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. C. THE OWNER SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS: 1.???, 2. ??? D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR. F. ARCHITECTURAL FINISH FLOOR ELEVATION 0'-0" EQUALS EXISTING FINISH FLOOR ELEVATION. G. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413. CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK. SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND

.. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED M. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY. N. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM



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COLLEGE	AL EQUIPMENT
MMUNITY	NN CENTER ADDITION
PIMA CC	TRANSPORTATIC

CONSTRUCTION DOCUMENTS -100% 03/29/2024 REVISIONS

30-19128-04



G1.1

ARCHITECTURAL ABBREVIATIONS

GFA

GROSS FLOOR AREA

٨/٢		GL	GLUE LAMINATED
AB	AIR BARRIER	GMP	GUARANTEED MAXIMUM PRICE
ABS	ASBESTOS	GR	GUARD RAIL
ACC	ADA ACCESSIBLE ACRYLIC	GR GRS	GRADE GALVANIZED RIGID STEEL
ACT	ACOUSTIC CEILING TILE	GWB	GYPSUM WALL BOARD
AD	ACCESS DOOR	GYP	GYPSUM
ADJ ADJT	ADJOSTABLE	HC	HOLLOW CORE
ADMIN	ADMINISTRATION	HD	HAND DRYER
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS	HDF	HIGH DENSITY FIBERBOARD
ALUM	ALUMINUM	HDWD	HARDWOOD
AP	ACCESS PANEL	HDWR	HARDWARE
	ACOUSTIC PANEL CEILING	HM HR	HOLLOW METAL
AUTO	AUTOMATIC	HR	HANDRAIL
AVG	AVERAGE	HS	HARDWARE SET
AWP	ACOUSTIC WALL PANEL	HSS	HOLLOW STRUCTURAL SHAPE
В.О.	BOTTOM OF	IIIAO	
BCS	BABY CHANGING STATION	IAW	IN ACCORDANCE WITH
BD BLK	BLOCK	ID IE	INSIDE DIAMETER
BLKG	BLOCKING	 IIP	INSULATED INFILL PANEL GLASS
BLKHD	BULKHEAD	IJ	ISOLATION JOINT
BM(S) BOT	BEAM(S) BOTTOM	IJS INC	IN JOIST SPACE
BRDG	BRIDGING	INSUL	INSULATION
BRG	BEARING		
BRKT	BRACKET BATHTUB	JAN JBF	JANHOR JOIST BEARING ELEVATION
BTWN	BETWEEN	JBX	JUNCTION BOX
		JCT	JUNCTION
CAB CBD	CABINE I CHAI KBOARD	JFB JST	JOINT FILLER BOARD JOIST
CER	CERAMIC	JT	JOINT
CF			
CFCI CEME	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	KCJ KD	KEYED CONSTRUCTION JOINT KNOCKDOWN
CG	CLEAR FLOAT GLASS	KH	KITCHEN HOOD
CGD	CORNER GUARD	KIT	KITCHEN
CIG	CAST IRON CLEAR INSULATING GLASS	I	ANGI F
CIP	CAST IN PLACE	LAB	LABORATORY
CJ	CONTROL JOINT	LAM	LAMINATED
CJA	CONTROL JOINT ABOVE	LAV I RP	
CLR	CLEAR		LOADING
CMU	CONCRETE MASONRY UNIT	LF	LINEAR FOOT
COL	COLUMN	LG	LENGTH (LONG)
COMB		LG L IN	LAMINATED GLASS
COMM	COMMUNICATIONS	LINO	LINOLEUM
COMPR	COMPRESSIBLE	LKR	LOCKER
CONFIC			
CORR	CORRIDOR	LONG	LIFE SAFETY CODE
CP	COVER PLATE	LTG	LIGHTING
CPT	CARPET	LV	LOUVER
CR		LVT	LUXURY VINYL TILE
CSTJ	CONSTRUCTION JOINT	MAG	MAGNETIC
CSWK	CASEWORK	MAINT	MAINTENANCE
CT		MAN	MANUAL
CTIG	CLEAR TEMPERED FLOAT GLASS	MAS	MASONRY
CU	COPPER	MB	MOP BASIN
CU		MBD	MARKER BOARD
CV		MBH MC	MOP/BROOM HOLDER MEDICINE CABINET
CYL	CYLINDER	MEMB	MEMBRANE
		MH	MANHOLE
DB	DECIBEL	MH MR/S	MANHOLE MIRROR WITH SHELF
DB DBL DC	DECIBEL DOUBLE DUST COLLECTOR	MH MR/S MTD MTG	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING
DB DBL DC DEPR	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED)	MH MR/S MTD MTG MUL	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION
DB DBL DC DEPR DEPT	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT	MH MR/S MTD MTG MUL	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION
DB DBL DC DEPR DEPT DET	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION	MH MR/S MTD MTG MUL NC	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA
DB DBL DC DEPR DEPT DET DF DG	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE	MH MR/S MTD MTG MUL NC NFPA NOM	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL
DB DBL DC DEPR DEPT DET DF DG DIAG	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL	MH MR/S MTD MTG MUL NC NFPA NOM	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL
DB DBL DC DEPR DEPT DET DF DG DIAG DPFG	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING	MH MR/S MTD MTG MUL NC NFPA NOM O to O	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL
DB DBL DC DEPR DEPT DET DF DG DIAG DPFG DR DSN	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZI E	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OECI	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED
DB DBL DC DEPR DEPT DET DF DG DIAG DPFG DR DSN DW	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE
DB DBL DC DEPR DEPT DET DF DG DIAG DPFG DR DSN DW DWL(S)	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S)	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OH OPG(S)	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OPENING(S)
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OH OPG(S) OSHA	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWL(S) DWR	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OFFICE OPPOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW
DB DBL DC DEPR DEPT DET DF DG DIAG DPFG DR DSN DW DWL(S) DWL(S) DWR EB EE EE	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB OVFL	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR EB EE EE EEW EEWS EFF	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFICIENCY	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OH OPG(S) OSHA OTB OVFL	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWL(S) DWR EB EE EE EEW EEWS EFF EJ	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFICIENCY EXPANSION JOINT	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB OVFL P PAN B	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPFOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT PANIC BOLT
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR EB EE EE EE EE EE EE EE EE EE EE EE EE	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFICIENCY EXPANSION JOINT ELASTOMERIC	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB OVFL P PAN B PB	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPFOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT PANIC BOLT PARTICLE BOARD DEECAST CONCEPTS
DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR EB EE EE EEW EEWS EFF EJ ELAS ELEV EMFR	DECIBEL DOUBLE DUST COLLECTOR DEPRESS(ION)(ED) DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFICIENCY EXPANSION JOINT ELASTOMERIC ELEVATOR EMERGENCY	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB OVFL P PAN B PB PC PCD	MANHOLE MIRROR WITH SHELF MOUNTED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OFFICE OVERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT PANIC BOLT PARTICLE BOARD PRECAST CONCRETE PAPER CUP DISPENSER
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DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DSN DW DWL(S) DWR EB EE EEW EEWS EFF EJ ELAS ELEV EMER ENCL ENTR ERF EUI EW EWC EXP EXP F F.O. FAB FB FD FDN FE FC FF FH FHC FIG FLASH FLUOR FOC FOC FOC FOC FOC FOC FOC FOC FOC FOC	DECIBEL DUST COLLECTOR DUST COLLECTOR DEPARTMENT DETENTION DEPARTMENT DETENTION DRINKING FOUNTAIN DOOR GRILLE DIAGONAL DAMPROOFING DOOR DOWNSPOUT NOZZLE DISHWASHER DOWEL(S) DRAWER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFCIENCY EXPANSION JOINT ELASTOMERIC ELEVATOR EMERGENCY EYE WASH SHOWER EFFCIENCY EXPANSION JOINT ELASTOMERIC ELEVATOR EMERGENCY EYE WASH SHOWER EFFCIENCY EXPANSION JOINT ELASTOMERIC ELEVATOR EMERGENCY USE INTENSITY EACH WAY ELECTRIC WATER COOLER EXPANSION EXPOSED FABRIC FACE OF FABRIC FACE OF FABRIC FACE OF FARICATE(D) FACE BRICK FACE OF FARICATE(D) FACE BRICK FACE OF FARICATE(D) FACE BRICK FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER CABINET FIRE HOR FUNCIESCENT FIRE HYDRANT FIRE EXTINGUISHER CABINET FIRE HYDRANT FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER CABINET FIRE HYDRANT FIRE EXTINGUISHER CABINET FIRE FLINGUISHER CABINET FIRE FLINGUISHER CABINET FIRE FLINGUISHER CABINET FIRE FLINGUISHER CABINET FIRE FLINGUISHER CABINET FIRE CORNING FULL LENGTH MIRROR FLUORESCENT FINISH FLOOR FIRE HYDRANT FIRE RESISTANT FIRERGLASS REINFORCED PANEL FIRE RESISTANT FIRERGLASS REINFORCED PANEL FIRERGLASS	MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OFF OFOI OH OPG(S) OSHA OTB OVFL P PAN B PB PC PCD PCT PD PERF PERP PG PIC PIG PL PL PL PL PL PL PL PL PL PL PL PL PL	MANHOLE MIRROR WITH SHELF MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OPENING(S) OPERATIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT PANIC BOLT PARTICLE BOARD PRECAST CONCRETE PAPER CUP DISPENSER PORCELAIN CERAMIC TILE PANIC DEVICE PERFORATED PERFENDICULAR PATTERN INSULATING GLASS PLATE PROPERTY LINE PLASTIC LAMINATE PLASTIC LAMINATE PLICE OUAD GAS VALVE QUARY TILE QUARTER ROUND RISER RADUS RUBBER BASE REMOTE CONTROL REFLECTED REMOVABLE RESULENT FLOORING RUBBER BASE REMOTE CONTROL REFLECTED REMOVABLE RESULENT FLOORING RUBBER FLOOR RCCESSED FLOOR MAT ROOF DCAN
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DB DBL DC DEPR DEPT DF DG DIAG DPFG DR DN DW DWL(S) DWR EB EE EEW EEWS EFF EJ ELAS ELEV EMER ENCL ENTR ERF EUI EW EWC EXP EXP F F.O. FAB FB FD FDN FE FEC FF FH FHC FLOR FLOR FC FOF FOC FOF FON FE FC FC FC FC FC FC FC FC FC FC FC FC FC	DECIBEL DUST COLLECTOR DEPRESS(ION)(ED) DEPARTIMENT DETENTION DERINKING FOUNTAIN DOOR CRILLE DIAGONAL DAMPROOFING DOOR OWNSPOUT NOZZLE DISHWASHER EXPANSION BOLT EACH END EMERGENCY EYE WASH EMERGENCY EYE WASH EMERGENCY EYE WASH SHOWER EFFICIENCY EXPANSION JOINT ELASTOMERIC ELEVATOR EMERGENCY EYE WASH SHOWER EFFICIENCY ENCLOSURE ELEVATOR EMERGENCY ELEVATOR ELEVATOR ELEVATOR ELEVATOR ELEVATOR ENTRANCE EPOXY RESIN FLOORING ENERGY USE INTENSITY ELECTRIC WATER COOLER EXPANSION EXPOSED FABRIC FACE OF FABRICATE(D) FACE DF FABRICATE(D) FACE OF FABRICATE(D) FACE OF FABRICATE(D) FACE OF FABRICATE(D) FACE OF FABRICATE(D) FACE OF FABRICATE(D) FIRE EXTINGUISHER CABINET FINSIN FLOOR FIRE EXTINGUISHER CABINET FINSIN FLOOR FULL LENGTH MIRROR FLUORESCENT FINSIN FLOOR FULL ENGTH MIRROR FLUORESCENT FINSIN FLOOR FIRE RESISTANT FOLDING SREINFORCED PANEL FIRE RESISTANT FOLDING SREINFORCED PANEL FIRE RESISTANT FOLDING SREINFORCED PANEL FIRE RESISTANT FACE OF MASOINRY FACE OF WALL FREMENDERS FACE OF FINSI FACE OF FINSI FACE OF FINSI FACE OF FINSI FACE OF FINSI FIRE RESISTANT FIRE RESIS	 MH MR/S MTD MTG MUL NC NFPA NOM O to O OA OFCI OFF OFOI OH OPG(S) OSHA OTB OVFL P PAN B PB PC PCD PCT PD PERF PERP PG PIC PIG PL PL PLAM PLBG PR PREFAB PROJ PS PT PTD PTD/R PTN PVC PWL QGV QT QTR RND R RAD REF REFI REF REFI REM RESIL RF RFM RH RI&C S SAT SAW SB SC SC SC 	MARNOLE MIRROR WITH SHELF MOUNTIED MOUNTING MULLION NOISE CRITERIA NATIONAL FIRE PROTECTION ASSOCIATION NOMINAL OUT TO OUT OVERALL OWNER FURNISHED CONTRACTOR INSTALLED OFFICE OWNER FURNISHED CONTRACTOR INSTALLED OPFORT OPENTIONAL SAFETY AND HEALTH ADMINISTRATION OPEN TO BELOW OVERFLOW PAINT PANIC BOLT PARTICLE BOARD PRECAST CONCRETE PAPER CUP DISPENSER PORCELAIN CERAMIC TILE PANIC DEVICE PERFENDICULAR PATTERN INSULATING GLASS PLATE PROPERTY LINE PLASTIC LAMINATE PLASTIC LAMINAT

UL

WWF

YD

SHOWER CURTAIN HOOK SHOWER CURTAIN ROD

SCH

SCR

SCT

SD

SF SG

SG

SGL

SGV

SECY

STRUCTURAL CLAY TILE

SOAP DISPENSER SECRETARY

SQUARE FEET SPANDREL GLASS

SPECIALTY GLASS SINGLE

SINGLE GAS VALVE

SHOWER SECURITY HOLLOW METAL

SEALANT

SHEET METAL SANITARY NAPKIN DISPOSAL

SANITARY NAPKIN VENDOR

SENSOR OPERATED SOUND PRESSURE LEVEL

SQUARE

SURFACE MOUNTED ELECTRICAL RACEWAY SOLID SURFACE

STORM SHELTER AREA

SOLID SURFACE STAINLESS STEEL SHELF

STAINLESS STEEL

STONE STAIR

STAGGERED

SOUND TRANSMISSION CLASS STRINGER

SUBFLOOR

SULPHUR SURFACE

SUSPENDED

SHEET VINYL FLOORING SERVICE FIXTURE

SERVICE FIXTURE GROUP

TREAD TONGUE AND GROOVE

TOP OF

TANGENT

TOWEL BAR

TACK BOARD TOILET COMPARTMENT PARTITION

TERRAZZO

TINTED FLOAT GLASS TEMPERED GLASS

THRESHOLD THICK(NESS)

TENANT IMPROVEMENT

TINTED INSULATING GLASS

TILT MIRROR UNIT

TOILET TOP OF PAVING

TRANSVERSE

TERRAZZO TILE

TOILET TISSUE DISPENSER TINTED TEMPERED FLOAT GLASS

TINTED TEMPERED INSULATING GLASS TACK WALL

UNDERWRITERS LABORATORIES

URINAL UTILITY SHELF

UTILITY

VAPOR BARRIER

VINYL BASE

VENTED COVE BASE

VINYL FLOOR VOLITILE ORGANIC COMPOUND

VOLUME

VENEER PLASTER VINYL TILE

VINYL WALL COVERING

WIDE

WALL BASE WATER CLOSET

WALL COVERING WATER CLOSET/LAVATORY COMBINATION

WOOD

WOOD FLOORING WINDOW

POLISHED WIRE GLASS

WROUGHT IRON WALK OFF MAT

WASTE RECEPTACLE

WEATHER RESISTANT BARRIER WARM WHITE

WELDED WIRE FABRIC

YARD

ARCHITECTURAL SYMBOLS

XX XX/A11.X XX XX/A11.X XX	CASEWORK ELEVATION
Α110 Π	DOOR NUMBER
A124	INTERIOR WINDOW NUMBER
?	Exterior Window / Curtain Wall Number
(XX. X. XX)	WALL TYPE
APC-1 - CEILING TYPE 9' - 0" - CEILING HEIGHT	CEILING TYPE





GENERAL	ARCH
	AINOTI

REFERENCE KEYNOTES

10.02 10.03

10.01





desk Docs://30-19128-04 Pima CC-Transportation Building/30-19128-00 PCC Transportation Bldg_AR_2

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	New Equipment Schedule										
Туре	Description	Manufacturer	Model	Voltage	Amperage	Phase	Required Gasses	Count	Data	OI/CI	Comments
EQ115	2-POST LIFT	FORWARD	DP10A	208 V	30 A	1	-	2	-	OFOI	DEDICATED DOUBLE POLE BREAKER, DISCONNECT
EQ124A	TRANSMISSION DYNO	MAE MUSTANG	LDU-40	208 V	110 A	3	-	1	-	OFOI	DYNO MOTOR
EQ124B	TRANSMISSION DYNO	MAE MUSTANG	LDU-40	208 V	110 A	3	-	1	-	OFOI	DYNO DYNE CONTROL
EQ132	SCISSOR LIFT	HUNTER	RX16KLFIS	208 V	26 A	1	AIR 125 - 150 PSI	2	-	OFOI	
EQ133	TIRE CHANGER	HUNTER	MAVERICK	208 V	0 A	1	AIR 100 - 150 PSI	2	-	OFOI	NEMA L6-20 PROVIDED
EQ134	TIRE BALANCER	HUNTER	ROAD FORCE ELITE	208 V	0 A	1	AIR 100 - 175 PSI	2	YES	OFOI	NEMA L6-20 PROVIDED
EQ135	ALIGNER	HUNTER	WINALIGN WA600	120 V	0 A	1	-	1	YES	OFOI	
EQ136	N TIRE BALANCING UNIT	SNAP-ON	-	120 V	0 A	1	AIR	1	-	OFOI	INSTALL IN SNAP ON CAB
EQ137	CENTER AISLE UNIT	SNAP-ON	-	120 V	0 A	1	AIR	10	-	OFOI	INSTALL IN EXISTING SNAP ON CAB, ALSO 208-230V 17A LIFT POWER
EQ138	S WALL UNIT	SNAP-ON	-	120 V	0 A	1	AIR	4	-	OFOI	INSTALL IN EXISTING SNAP ON CAB, PROVIDE USB
EQ139	N OEM BAY UNIT	SNAP-ON	-	208 V	17 A	1	AIR	2	-	OFOI	INSTALL IN SNAP ON CAB
EQ140	OEM 115 UNIT	SNAP-ON	-	120 V	0 A	1	AIR	1	-	OFOI	INSTALL IN SNAP ON CAB, PROVIDE LED LIGHTING, USB

REFERENCE KEYNOTES







- 1 (E) EXISTING 6" CONCRETE SLAB-ON-GRADE WITH SYNTHETIC FIBERS AND #4 @1'-6" OC E.W. (MID DEPTH) OVER VAPOR RETARDER ON 4" AGGREGATE BASE COURSE (ABC). FINISH FLOOR=100'-0". SEE ARCH. PLANS FOR DEPRESSED SLAB LOCATIONS.
- 2 NEW VEHICLE LIFT FOUNDATON AND SLAB-ON-GRADE REPAIR. SEE DETAIL 5B/S1.1 AND SEE ARCH DRAWING FOR LOCATION. VERIFY SIZE AND DEPTH OF FLOOR RECESS WITH MNFR PRIOR TO INSTALLATION.
- 3 SHELVING UNITS ANCHORED TO EXISTING SLAB-ON-GRADE. VERIFICATION OF (E) SLAB-ON-GRADE TO SUPPORT SHELVING UNITS TO OCCUR UPON SUBMISSION OF OF FINAL PRODUCT INFORMATION AND ENGINEERING FOR APPLIED LOADING. (BASIS OF DESIGN: RAPISTAK SHELVING)
- 4 GENERAL AREA FOR BELOW SLAB UTILITY ROUTING. SAWCUT AND REMOVE EXISTING SLAB-ON-GRADE AS REQUIRED. COORDINATE WITH PLUMBING AND ELECTRICAL DRAWINGS FOR SPECIFIC LOCATIONS AND ROUTING. PATCH RENOVATED AREA PER DETAIL 5A/S1.1
- 5 NEW VEHICLE LIFT FOUNDATON AT EXTERIOR SITE PAVING. SEE DETAIL 5C/S1.1 AND ARCH DRAWING FOR LOCATION. BASIS OF DESIGN PER "ROTARY FORWARDLIFT - DP10A". FOUNDATON DESIGN LIMITED TO BASE REACTIONS PER POST OF 5,500 LB AXIAL, 1,250 LB SHEAR AND 10,000 #-FT MOMENT. INFORMATION AND VALUES TO BE VERIFIED / CONFIRMED BY OWNER PRIOR TO INSTALLATION.

SPECIAL STRUCTURAL INSPECTIONS:

- 1. IN ACCORD WITH IBC, SECTION 1704, AS NOTED BELOW. TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THIS ENGINEER SHALL BE DEEMED THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS PERFORMED BY HIS FIRM OR HIS CONSULTANTS. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 2. THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL, AND TO ATTEND THE PRE-CONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.
- 3. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY IBC SECTION 110 OF THE INTERNATIONAL BUILDING CODE.
- 4. CONCRETE: PER IBC SECTION 1705.3 AND TABLE 1705.3 WITH EXCEPTIONS. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION: ALL CONCRETE, EXCEPT; SLAB-ON-GRADES, SIDE WALKS, AND DRIVEWAYS.
- 5. GRADING, EXCAVATION AND FILLING: PER IBC SECTION 1705.6 AND TABLE 1705.6. SEE CIVIL DRAWINGS AND SPECIFICATION DIVISION 2.
- 6. EXPANSION BOLT, SCREW ANCHOR AND ADHESIVE ANCHOR: INSTALLATION TO VERIFY INSTALLATION IN ACCORD WITH ICBO REPORTS NOTED PREVIOUSLY OR APPROVED EQUAL.
- 7. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO VERIFY CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- 8. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL.
- 9. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

TABLE 1705.3							
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION							
VERIFICATION AND	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE			
INSPECTION							
4. Increase as information to a location of		v		1000.4			
1. Inspect reinforcement, including	-	×	ACI 318: CII. 20, 25.2,	1908.4			
prestressing tendons, and verily			25.3,20.0.1-20.0.3				
2 Inspection of roinforcing bar wolding:		v					
 Nerify weldability of reinforcing 	-		AWS DI.4	-			
bars other than ASTM A706			ACI 318: 26.6.4				
b Inspect single-pass fillet welds			7101 0 10. 20.0. 1				
maximum 5/16": and							
c. Inspect all other welds							
3. Inspect anchors cast in concrete	-	X	ACI 318: 17.8.2	-			
4. Inspect anchors post-installed in	-	X	ACI 318: 17.8.2.4	-			
hardened concrete members. 2							
a. Adhesive anchors installed							
horizontally or upwardly inclined							
orientations to resiste tension loads.							
b. Mechanical anchors and adhesive							
anchors not defined in 4.a.		V	4.01.240	4004 4 4004 0			
5. Verity use of required design mix.	-	X	ACI 318:	1904.1,1904.2,			
6 Drier to concrete placement			Cn. 19, 20.4.3, 20.4.4	1908.2,1908.3			
fabricate specimens for strength tests	x		ASTM C 172	1908 10			
perform slump and air content tests			ASTM C 31	1000.10			
and determine the temperature of			ACI 318 26 5 26 12				
the concrete.			,				
7. Inspect concrete and shotcrete	Х	-	ACI 318: 26.5	1908.6, 1908.7,			
placement for proper application				1908.8			
techniques.							
8. Verify maintenance of	-	X	ACI 318: 26.5.3-26.5.5	1908.9			
specified curing temperature and							
techniques.							
9. Inspect prestressed concrete for:	N N		101 240, 00 40				
a. Application of prestressing forces.	X	-	ACI 318: 26.10	-			
b. Grouting of bonded prestressing							
10 Inspect erection of precast concrete		X	ACI 318: 26.9				
members.			7101 0 10: 20:0				
11. Verify in-situ concrete strength,							
prior to stressing of tendons in post-	-	X	ACI 318: 26.11.2	-			
tensioned concrete and prior to							
removal of shores and forms from							
beams and structural slabs.							
12. Inspect formwork for shape,							
location, and dimensions of the	-	X	ACI 318: 26.11.1.2(b)	-			
concrete member being formed.							
FUI SI: I INCH = 25.4 MM.	05 12 Special i	nenactions fo	r sojemic resistance				
a. where applicable, see also Section 17 b. Specific requirements for special inspe	ection shall he in	cluded in the	research report for the anchor is	sued by an approved			

source in accordance with 17.8.2 in ACI 318 or other gualification procedures. Where specific regi special inspection requirements shall be specified by the registered design professional and shall official prior to the commencement of the work.

			
TABLE 1705.6			
TYPE	TYPE CONTINUOUS SPECIAL INSPECTION PERIODIC SPECIAL INSPECTION		
 Verify materials below shallow foundations are adequate to achieve the design bearing capacity. 	-	x	
 Verify excavations are extended to proper depth and have reached proper material. 	-	x	
 Perform classification and testing of compacted fill materials. 	-	x	
 Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. 	X	-	
 Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly. 	-	X	

STRUCTURAL NOTES	GEOTECHNICAL INVESTIGATION:	•
	 GEOTECHNICAL INVESTIGATION FOR ORIGINAL DESIGN DOCUMENTS WAS PERFORMED BY TERRACON CONSULTANTS, INC, PROJECT NO. 63195041, DATED JULY 12, 2019. COPY OF GEOTECHNICAL INVESTIGATION IS INCLUDED IN SPECIFICATIONS 	
INTERNATIONAL BUILDING CODE, 2018 EDITION WITH CITY OF TUCSON, AZ AMENDMENTS.	A. ALLOWABLE BEARING PRESSURE	
 GENERAL NOTES: THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT- ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. 	 2,000 PSF (BEARING ON MINIMUM 6'-0" COMPACTED, ENGINEERED FILL). MINIMUM DEPTH FROM GRADE TO BOTTOM OF FOOTING IS 1'-6" 2,500 PSF (BEARING ON MINIMUM 6'-0" COMPACTED, ENGINEERED FILL). MINIMUM DEPTH FROM GRADE TO BOTTOM OF FOOTING IS 2'-0" 3,000 PSF (BEARING ON MINIMUM 6'-0" COMPACTED, ENGINEERED FILL). MINIMUM DEPTH FROM GRADE TO BOTTOM OF FOOTING IS 2'-6" B. EQUIVALENT ACTIVE FLUID PRESSURE (DOES NOT INCLUDE SAFETY FACTOR) 45 PSF/FT 	GRO
 CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON TRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT 	 C. EQUIVALENT PASSIVE FLUID PRESSURE (DOES NOT INCLUDE SAFETY FACTOR) 345 PSF/FT D. EQUIVALENT AT-REST FLUID PRESSURE (DOES NOT INCLUDE SAFETY FACTOR) 65 PSF/FT 	l L
ALL. 5. STRUCTURAL DRAWINGS SHALL NOT BE CONSTRUCTED AS STAND-ALONE DRWINGS AND ARE DEPENDENT UPN INFORMATION COMMUNICATED THROUGHOUT THE OVERALL DRAWING SET. CONTRACTOR SHALL COORDINATE AND CROSS REFERENCE INFORMATION ACCORDINGLY.	 E. COEFFICIENT OF FRICTION (DOES NOT INCLUDE SAFETY FACTOR) 0.45 CONCRETE TO SOIL 0.30 WHEN USED IN CONJUNCTION WITH PASSIVE PRESSURE 	DLR Group
STRUCTURAL RENOVATION SCOPE 1. PROJECT STRUCTURAL SCOPE IS LIMITED TO THE FOLLOWING: A. NEW FOUNDATIONS FOR VEHICLE LIFTS WHERE INDICATED ON PLANS B. EXISTING SLAB-ON-GRADE SUPPORT FOR NEW PREMANUFACTURED SHELVING UNITS	 CAST-IN PLACE CONCRETE: 1. THESE NOTES APPLY TO CONCRETE USED IN BUILDING CONSTRUCTION ONLY. SEE SITE WORK DRAWINGS AND SPECIFICATIONS FOR CONCRETE REQUIREMENTS OUTSIDE OF BUILDING. 	©
C. PATCH AND REPAIR OF EXISTING SLAB-ON-GRADE FOR NEW UTILITY ROUTING AND VEHICLE LIFT INSTALLATIONS. EXISTING CONDITIONS: 1. CONTRACTOR IS TO FIELD VERIEX EXISTING CONDITIONS PRIOR TO BIDDING. ALL WORK AND	LOCATION 28-DAY F'c AIR MAX W/C RATIO MAX SLUMP FOOTINGS 3000 PSI - 0.63 4" SLABS ON GRADE 3500 PSI - 0.45* 4" ALL OTHER BLDG ITEMS 3500 PSI - 0.58 4"	
 MATERIALS NECESSARY TO INSTALL NEW WORK IN EXISTING BUILDING(S) SHALL BE INCLUDED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND SHALL CONTACT THE ENGINEER IF ANY DISCREPANCIES ARE FOUND REFORE PROCEEDING. 	*LOW W/C RATIOS ARE SPECIFIED TO REDUCE AMOUNT OF WATER IN THE CONCRETE TO MINIMIZE SHRINKAGE CRACKING. CONSIDER LOWER WATER CONTENT IN COMBINATION OF SUPER-PLASTICIZERS AND OTHER ADMIXTURES TO MAINTAIN WORKABILITY. 2. CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT	ACCOUNT OF A COUNT OF
 DIMENSIONS INDICATED ON PLAN AS FIELD VERIFY, OR "FV", ARE DIMENSIONS THAT MAY BE 	EXCEEDING 3" PRIOR TO ADDING ADMIXTURE AND NOT EXCEEDING 8" AT PLACEMENT.3. THE ADDITION OF WATER TO A CONCRETE BATCH WITH INSUFFICIENT SLUMP SHALL NOT BE PERMITTED.	
 4. CONTRACTOR TO PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND 	 CONCRETE CONSTRUCTION: CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301 AND ACI 318. 2 PROVIDE A FORMED CONSTRUCTION KEYWAY BER TYPICAL DETAIL AT ALL HORIZONTAL 	
 EQUIPMENT TO REMAIN FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION OPERATIONS PERFORMED UNDER THIS CONTRACT. 5. THE SEQUENCE OF CONSTRUCTION SHALL BE THE RESPONSIBILITY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY GUYS. BRACING 	 2. PROVIDE A FORMED CONSTRUCTION REYWAY PER TYPICAL DETAIL AT ALL HORIZONTAL AND VERTICAL POUR EDGES EXCEPT CONCRETE TOPPING SLABS. 3. CONCRETE SHALL BE MECHANICALLY CONSOLIDATED IN ACCORD WITH ACI 309. 	
 AND OTHER SUPPORTS AS NEEDED TO SAFELY RESIST ALL GRAVITY AND LATERAL LOADS TO WHICH THE EXISTING OR PROPOSED STRUCTURE MAY BE SUBJECTED, INCLUDING LOADS FROM ERECTION EQUIPMENT AND ERECTION OPERATIONS, AND WIND OR SEISMIC FORCES COMPARABLE IN INTENSITY FOR WHICH THE STRUCTURE IS DESIGNED. LOAD VERIFICATION OF EXISTING MEMBERS TO RECEIVE TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER. ALL ERECTION AND CONSTRUCTION PROCEDURES SHALL MEET THE REQUIREMENTS OF ALL 	4. CONTROL (CONTRACTION OR CONSTRUCTION) JOINTS SHALL BOUND ALL CONCRETE SLABS ON GRADE AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN ON THE DRAWINGS, CONTROL JOINTS SHALL BE LOCATED SUCH THAT THE ENCLOSED AREA IS RELATIVELY SQUARE AND DOES NOT EXCEED 150 SQUARE FEET. KEYED JOINTS NEED ONLY OCCUR AT CONSTRUCTION JOINTS. ALL CONTRACTION JOINTS MAY BE SAWCUT. DO NOT PROVIDE CONTROL JOINTS IN STRUCTURAL CONCRETE SLABS AND CONCRETE TOPPINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.	
APPLICABLE CODES AND ORDINANCES.	 CONCRETE REINFORCEMENT: 1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, GRADE 60. 	TT Z
 SHOP DRAWING PRODUCTION AND FABRICATION. FIELD VERIFIED DIMENSIONS SHALL BE INCLUDED ON FIRST SHOP DRAWING SUBMITTAL AND NOTED AS SUCH. 8. EXISTING UTILITY LINES SHALL BE PROBED PRIOR TO CONSTRUCTION OF FOUNDATIONS. NOTES ENDINGER IN THE TOP OF ANY UTILITY FIRE CONFORMULTION OF FUE DOTTOM OF THE POTTOM OF THE POTTOM OF THE POTTOM. 	 CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, NON-PRESTRESSED CONCRETE UNLESS OTHERWISE NOTED ON DETAILS: a. CONCRETE CAST AGAINST AND 	MECHANICAL ENGINEERING, L.L.C.
ANY FOUNDATION. DETERMINE THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE, PROTECT, AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.	 PERMANENTLY EXPOSED TO EARTH: 3" b. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER: 2" 	
9. EXCAVATION UNDER OR NEAR IN-PLACE FOOTINGS WHICH DISTURBS THE COMPACTED SOIL BENEATH THE FOOTINGS IS NOT PERMITTED.	 #3 BARS AND SMALLER. I-1/2 c. CONCRETE NOT EXPOSED TO WEATHER OP IN CONTACT WITH EAPTH: 	
10. CONTRACTOR SHALL LOCATE REBAR IN EXIST. CONSTRUCTION PRIOR TO DRILLING OF HOLES AND SHALL TAKE CARE NOT TO DAMAGE EXIST. BARS. IF DAMAGE TO EXIST. REBAR OCCURS DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE. REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS WILL REQUIRE PREPARATION BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE	SLABS, WALLS, JOISTS: #14 AND #18 BARS: 1-1/2" #11 BARS AND SMALLER: 3/4" BEAMS, COLUMNS: PRIMARY REINFORCEMENT: 2"	
STATE IN WHICH THE PROJECT IS LOCATED AND MUST BE APPROVED BY THE ENGINEER. 11. CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALL WORK AND	 REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE DEINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS 	
 MATERIALS NECESSARY TO INSTALL NEW WORK IN EXISTING BUILDING(S) SHALL BE INCLUDED. 12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND SHALL CONTACT THE ENGINEER IF ANY DISCREPANCIES ARE FOUND BEFORE PROCEEDING. 	 WHERE INDICATED, INSTALL WELDED WIRE REINFORCEMENT AT VERTICAL POSITION AS INDICATED ON DRAWINGS. SUPPORT ON CHAIRS OR BAR SUPPORTS SPACED TO MINIMIZE SAGGING. 	
 NOTIFY ENGINEER IMMEDIATELY IF EXISTING CONDITIONS DO NOT MATCH, OR SEEM IN CONFLICT WITH, INFORMATION SHOWN ON DRAWINGS. 13. DIMENSIONS INDICATED ON PLAN AS FIELD VERIFY, OR "FV", ARE DIMENSIONS THAT MAY BE REQUIRED FOR FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR 	 <u>POST-INSTALLED ANCHORS</u> 1. UNO, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORAGE INTO HARDENED CONCRETE OR MASONRY WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE / EPOXY, SHOT-PIN, SCREW AND UNDERCUT. 	
 VERIFICATION OF DIMENSIONS IN THE FIELD NECESSARY FOR FABRICATION OF MEMBERS AND PRIOR TO SUBMISSION OF SHOP DRAWINGS. 14. CONTRACTOR TO PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT TO REMAIN FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION 	 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING, DAMAGED OR MISPLACED CAST-IN- PLACE ANCHORS 	
OPERATIONS PERFORMED UNDER THIS CONTRACT. 15. THE SEQUENCE OF CONSTRUCTION SHALL BE THE RESPONSIBILITY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY GUYS, BRACING, AND OTHER SUPPORTS AS NEEDED TO SAFELY RESIST ALL CRAVITY AND LATERAL LOADS	 CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR OR EMBEDDED CONDUIT WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. 	С Ш ₋
TO WHICH THE EXISTING OR PROPOSED STRUCTURE MAY BE SUBJECTED, INCLUDING LOADS FROM ERECTION EQUIPMENT AND ERECTION OPERATIONS, AND WIND OR SEISMIC FORCES COMPARABLE IN INTENSITY FOR WHICH THE STRUCTURE IS DESIGNED. LOAD VERIFICATION OF EXISTING MEMBERS TO RECEIVE TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER.	5. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING REINFORCEMENT, CONDUIT, POST- TENSIONING (WHERE OCCURS), ETC. USE NON-DESTRUCTIVE TESTING TO LOCATE PRIOR TO DRILLING, CORING OR SHOOTING PINS INTO THE EXISTING CONCRETE OR MASONRY. FOR INSTALLATION DEEPER THAN 3 INCHES USE GROUND PENETRATING RADAR OR X- RAY METHODS.	
 ALL ERECTION AND CONSTRUCTION PROCEDURES SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES AND ORDINANCES. ALL FRAMING CONNECTIONS TO EXISTING STRUCTURE SHALL BE FIELD VERIFIED PRIOR TO SHOP DRAWING PRODUCTION AND EARDICATION. FIELD VERIFIED DIMENSIONS SHALL BE 	 ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE ICC-ES REPORTS, INCLUDING, BUT NOT LIMITED TO, ALL ANCHOR SPACINGS, EMBEDMENTS AND EDGE DISTANCES. 	
 18. EXISTING UTILITY LINES SHALL BE PROBED PRIOR TO CONSTRUCTION OF FOUNDATIONS. 	7. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE	
NOTIFY ENGINEER IF THE TOP OF ANY UTILITY PIPE COMES WITHIN 3'-0" OF THE BOTTOM OF ANY FOUNDATION. DETERMINE THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE, PROTECT, AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES	PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE AND INSTALLATION TEMPERATURES.	
 EXCAVATION UNDER OR NEAR IN-PLACE FOOTINGS WHICH DISTURBS THE COMPACTED SOIL BENEATH THE FOOTINGS IS NOT PERMITTED. CONTRACTOR SUBJECT OF S	 EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "Hef". ALL ANCHORS SHALL HAVE EMBEDMENT NOTED OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER. 	
HOLES AND SHALL TAKE CARE NOT TO DAMAGE EXIST. BARS. IF DAMAGE TO EXIST. REBAR OCCURS DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE. REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS WILL REQUIRE PREPARATION BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE	 IF THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE ACHIEVED, NOTIFY THE ENGINEER. STEEL ANCHORING ELEMENTS SHALL BE THE SIZE AND GRADE SHOWN ON THE DRAWINGS AND MUST BE CLEAN DRY AND ERFE OF ANY OF CONTAMINANTS. DO NOT 	NSPOR U STONE AV
EXISTING DOCUMENTATION	INCREASE OR DECREASE SIZE OF ANCHOR WITHOUT APPROVAL OF ENGINEER. 11. ALL PERSONNEL INSTALLING POST-INSTALLED ANCHORS SHALL BE TRAINED BY THE	TRA TUCS
 THE FOLLOWING DOCUMENTS WERE USED TO REPRESENT EXISTING STRUCTURE IN THE CONSTRUCTION DOCUMENTS. NOT ALL ELEMENTS AND INFORMATION HAS BEEN PROVIDED. COPIES OF THE EXISTING DRAWINGS MAY BE AVAILABLE AT THE CONTRACTOR'S REQUEST. A. ORIGINAL DESIGN DOCUMENTS LABELED "PIMA COMMUNITY COLLEGE, DOWNTOWN CAMPUS - TRANSPORTATION CENTER, DATED SEPTEMBER 13, 2019 BY DLR GROUP. 	 MANUFACTURER ON PROPER INSTALLATION TECHNIQUE. TRAINING DOCUMENTATION FROM THE MANUFACTURER SHALL BE AVAILABLE UPON REQUEST. a. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER 	CONSTRUCTION DOCUMENTS -
ABBREVIATIONS: ABBREVIATIONS ARE AS SHOWN IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING EXCEPTIONS:	FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION. 12. EXPANSION BOLTS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: a. HILTI KWIK BOLT TZ2 CONCRETE ANCHORS (ICC ESR-4266) b. DEWALT POWER STUD+SD1 (ICC ESR-2818), POWER STUD +SD2 (ICC ESR-2502)	100% 03/29/2024 REVISIONS
 UNO UNLESS NOTED OTHERWISE HS HEADED ANCHOR STUD CP COMPLETE PENETRATION WELD ABC AGGREGATE BASE COURSE TOS TOP OF STEEL 	 a. HILTI HUS-EZ SCREW ANCHORS (ICC ESR-3027) b. DEWALT FOWERCHORS (ICC ESR-3037) 	
 a. BOS BOTTOW OF STEEL 7. TYP TYPICAL 8. EOD EDGE OF DECK 9. BFF BELOW FINISH FLOOR 10. AFF ABOVE FINISH FLOOR 11. PLE POUNDS DEPLINEAL FOOT 	 c. SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS (ICC ESR-2713) 14. ADHESIVE ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: a. HILTI HIT-HY 200 V3 ADHESIVE ANCHORING SYSTEM WITH SAFESET (ESR-4868) (FAST CURE APPLICATIONS) IIII TI DE 500 V6 ADHEON/C ANCHORING ON (CERTING) 	
11. PLFPOUNDS PER LINEAL FOOT12. PRSPER ROOF SLOPE13. SIMSIMILAR14. TOFTOP OF FOOTING15. BOFBOTTOM OF FOOTING	 b. HIL I I RE-500 V3 ADHESIVE ANCHORING SYSTEM (ESR-3814) c. DEWALT AC200+ ADHESIVE ANCHORING SYSTEM (ICC ESR-4027) (FAST CURE APPLICATIONS) d. SIMPSON STRONG-TIE AT-XP ADHESIVE ANCHORING SYSTEM (IAPMO UES ER-263) 	20 40400 04
16. FV FIELD VERIFY 17. WP WORK POINT 18. BOD BOTTOM OF DECK 19. ARIS ANCHOR POINTS	15. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED IT'S DESIGN STRENGTH. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE WITH A MIN. AGE OF 21 DAYS.	LEVEL 1 -
19. AD S AINCHUR BULTS 20. EOS EDGE OF SLAB 21. SOG SLAB ON GRADE 22. FIN FINISHED	16. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT CORE DRILL FOR ANCHOR HOLES WITHOUT ENGINEER APPROVAL.	FOUNDATION PLAN
23. FLR FLOOR 24. EL ELEVATION 25. WF WIDE FLANGE	17. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS-STEEL TYPE 304 OR 316 AT EXTERIOR / DAMP INTERIOR LOCATIONS. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.	
26. CLCENTERLINE27. TOCTOP OF COLUMN28. CJCONTROL JOINT	18. PATCH ABANDONED HOLES AND SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. ANCHORS PENETRATING THROUGH WATERPROOFING OR	Q1 1
29. BOTT BOTTOM 30. ABV ABOVE 31. (E) EXISTING	VAPOR MEMBRANES SHALL BE SEALED OR FLASHED. 19. ADHESIVE / EPOXY ANCHORS ON THIS PROJECT ARE NOT DESIGNED TO SUPPORT OR	

INTENDED TO RESIST SUSTAINED TENSION LOADS.

quirements are not provided,	
all be approved by the building	



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MECHANICAL GENERAL REQUIREMENTS

CODES: CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FOLLOWING CODES: INTERNATIONAL BUILDING CODE (2018 EDITION), INTERNATIONAL PLUMBING CODE (2018 EDITION), AND INTERNATIONAL FUEL GAS CODE (2018 EDITION).

GENERAL: THE WORK COVERED BY THIS SPECIFICATION SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, LABOR, TRANSPORTATION, TOOLS, PERMITS, FEES, INSPECTIONS, UTILITIES AND INCIDENTALS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL WORK REQUIRED BY THE CONTRACT DRAWINGS.

DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND CANNOT SHOW EVERY CONNECTION IN DETAIL OR EVERY PIPE IN ITS EXACT LOCATION. THESE DETAILS ARE SUBJECT TO THE REQUIREMENTS OF ORDINANCES AND ALSO STRUCTURAL AND ARCHITECTURAL CONDITIONS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AND SHALL COORDINATE WITH THE SEPARATE TRADES IN ORDER TO AVOID INTERFERENCE BETWEEN THE VARIOUS PHASES OF WORK. WORK SHALL BE LAID OUT SO THAT IT WILL BE CONCEALED IN FURRED CHASES OR ABOVE CEILINGS, ETC., IN FINISHED PORTIONS OF THE BUILDING, UNLESS SPECIFICALLY NOTED OR INDICATED TO BE EXPOSED. WORK SHALL BE INSTALLED TO AVOID CRIPPLING OF STRUCTURAL MEMBERS. ALL WORK SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS OTHERWISE NOTED. THE APPROXIMATE LOCATION OF EACH ITEM IS INDICATED ON THE DRAWINGS. THESE DRAWINGS ARE NOT INTENDED TO GIVE COMPLETE AND EXACT DETAILS IN REGARD TO LOCATION. EXACT LOCATIONS ARE TO BE DETERMINED BY ACTUAL MEASUREMENTS OF THE BUILDING.

EQUIPMENT INSTALLATION: PROVIDE AND INSTALL UNIONS AT PROPER POINTS TO PERMIT REMOVAL OF PIPE AND EQUIPMENT WITHOUT DAMAGE TO OTHER PARTS OF THE SYSTEM. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT ACCESS TO PARTS REQUIRING SERVICE WITHOUT DISASSEMBLY OF OTHER EQUIPMENT.

EXCAVATION AND BACKFILL: THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION REQUIRED FOR THE INSTALLATION OF THE WORK. CONTRACTOR SHALL BACKFILL, COMPACT AND REPAIR CONCRETE OR PAVING TO MATCH EXISTING FINISH AS CLOSELY AS POSSIBLE.

EXISTING FACILITIES: LOSS OR DAMAGE TO EXISTING FACILITY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED IN EXISTING AREAS WITH THE OWNER AND SHALL ARRANGE FOR ALL TEMPORARY UTILITY SERVICES, PROTECTION OF THE FACILITY AND ITS CONTENTS, BARRICADES, SAFETY DEVICES, ETC., REQUIRED TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CONSTRUCTION IF REQUIRED TO ACCOMPLISH THE WORK. NOTIFY THE OWNER AT LEAST TWO DAYS IN ADVANCE OF ALL REQUIRED SERVICE OUTAGES.

SUBSTITUTIONS: EQUIPMENT OF EQUAL QUALITY TO THAT SPECIFIED MAY BE SUBSTITUTED PROVIDED IT MEETS OR EXCEEDS THE CAPACITY SCHEDULED, IS OF SIMILAR CONSTRUCTION, AND WILL FIT IN THE SPACE ALLOTTED WITH AMPLE SERVICE CLEARANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH ALL OTHER TRADES (SUCH AS ELECTRICAL AND STRUCTURAL) OF ANY PRODUCT REQUIRING A CHANGE IN THE WORK OF THAT TRADE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY ADDITIONAL COSTS ASSOCIATED WITH SUCH A CHANGE. MATERIALS OF CONSTRUCTION SHALL BE AS SPECIFIED.

SUPPORTS, ANCHORS AND SLEEVES: SUPPORT HORIZONTAL PIPING WITH STEEL CLEVIS HANGERS AND VERTICAL PIPING WITH RISER CLAMPS. PROVIDE COPPER PLATED HANGERS AND CLAMPS FOR COPPER PIPING OR WRAP THE COPPER PIPE AT HANGERS WITH TWO LAYERS OF PVC TAPE OR EQUIVALENT. HANGER SPACING AND ROD SIZE SHALL BE IN ACCORDANCE WITH THE LOCAL CODE AND/OR ASHRAE STANDARDS. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS. THROUGH PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE PER MANUFACTURER'S UL LISTED DETAILS AND INSTRUCTIONS, EQUAL OF HILTI. PIPING SHALL BE PROVIDED WITH STANDARD WEIGHT STEEL PIPE OF SIZE TO PASS PIPE AND INSULATION. PIPE SLEEVES ARE NOT REQUIRED IF PENETRATIONS ARE CORE DRILLED. PIPING SHALL NOT BE SUPPORTED FROM PENETRATION.

SHOP DRAWINGS: PROVIDE SHOP DRAWINGS AND MANUFACTURER'S DATA ON ALL PLUMBING ITEMS FOR APPROVAL.

WARRANTY: PROVIDE TWO YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE ON ALL LABOR AND MATERIALS PROVIDED UNDER THIS CONTRACT.

CLEAN-UP: CONTRACTOR SHALL MAINTAIN PREMISES IN CLEAN CONDITION AT END OF EACH DAY AND THOROUGHLY CLEAN-UP AT END OF CONSTRUCTION.

PLUMBING: PIPING:

COMPRESSED AIR PIPING ABOVE GRADE SHALL BE TYPE "L" HARD TEMPER COPPER PIPE WITH WROUGHT FITTINGS AND 95-5 LEAD FREE SOLDER JOINTS.

COMPRESSED AIR PIPING BELOW SLAB SHALL BE TYPE "K" SOFT TEMPER COPPER PIPE WITH NO JOINTS WHERE POSSIBLE OR WROUGHT COPPER FITTINGS AND SILVER BRAZED JOINTS.

PIPE IDENTIFICATION SHALL BE PROVIDED FOR ALL NEW PIPING. PROVIDE SEATON, BRADY OR EQUAL PIPE MARKERS PER ANSI STANDARDS. PIPING SPECIALTIES: CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS OR FLANGES AT ALL LOCATIONS WHERE COPPER OR BRASS PIPING CONNECTS TO FERROUS PIPING OR EQUIPMENT.

VALVES: VALVES FOR COMPRESSED AIR PIPING SHALL BE LEAD-FREE AND AS MANUFACTURED BY KITZ, STOCKHAM, NIBCO, APOLLO, MILWAUKEE OR JENKINS.

BALL VALVES SHALL BE BRONZE, TWO PIECE BODY, FULL PORT FORGED BRASS BALL, SILICON BRONZE STEM, PTFE OR HDPE SEAT, PACKING AND GASKET; THREADED OR SOLDERED ENDS. VALVES SHALL CONFORM TO MSS SP-110

ALL PIPING SHALL BE INSTALLED AT RIGHT ANGLES TO THE BUILDING LINES AND PLUMB.

WRAP METALLIC PIPE IN CONTACT WITH CONCRETE BLOCK, SLABS OR STUCCO WITH 10 MIL THICK PVC TAPE TO PREVENT CORROSION.

FLUSH PIPING CLEAN WITH WATER AFTER INSTALLATION.

TEST ALL PIPING PRIOR TO COVERING OR BACKFILLING.

TEST COMPRESSED AIR PIPING AT 30 PSIG FOR A CONTINUOUS PERIOD OF NOT LESS THAN FOUR (4) HOURS. DURING THIS TIME, CAREFULLY INSPECT THE SYSTEM FOR LEAKS. CONTRACTOR SHALL REPAIR ALL LEAKS IF NECESSARY AND TEST AGAIN UNTIL NO LEAKAGE IS DETECTED.



ABBREVIATIONS

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Ø	PHASE
A AMP	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME (CIRCUIT BREAKER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AP	WIRELESS ACCESS POINT
AT	AMP TRIP (CIRCUIT BREAKER OR FUSE)
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VIDEO, AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	BREAKER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CLG	CEILING
CU	COPPER
DB	DECIBEL
DC	DIRECT CURRENT
DISC	DISCONNECT
DIV	SPECIFICATION DIVISION
DP	DISTRIBUTION PANELBOARD
DW	DISHWASHER
ECS	EMERGENCY COMMUNICATION SYSTEM
EGB	ELECTRICAL GROUNDING BUSBAR
ELEC	ELECTRICAL
EMD	ESTIMATED MAXIMUM DEMAND
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EP	EXPLOSION PROOF
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXISTING (TO BE) RELOCATED
ERMIS	EINERGY REDUCTION MAINTENANCE SWITCH
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPS
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
FT	EEET
G	EQUIPMENT GROUNDING CONDUCTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
GND	EQUIPMENT GROUNDING CONDUCTOR
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IC	INTERCOM
IG	ISOLATED GROUND
IN	INCH
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CIRCUIT
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LT	LIGHT
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRTS	MOTOR RATED TOGGLE SWITCH
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TRANSFER SWITCH
N	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE SCREW AND YOKE
P	POLE(S)
PA	PUBLIC ADDRESS
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PWR	POWER
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REF	REFERENCE
REV	REVISION(S)
RM	ROOM
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
STD	STANDARD
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TGB	TELECOMMUNICATIONS GRONDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GRONDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TS	TAMPER SWITCH
TV	TELEVISION
TVP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WA	TELECOMMUNICATIONS WORK AREA
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)

GENERAL LIGHTING NOTES

- (TYPICAL ALL LIGHTING SHEETS) 1. SEE LIGHT FIXTURE SCHEDULE AND SYMBOLS LEGEND FOR
- MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE. 2. PROVIDE #10AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR
- LIGHTING CIRCUITS. 3. SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF
- BUILDING MOUNTED EXTERIOR LIGHT FIXTURES. 4. PROVIDE BEAD OF SILICON SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS.
- 5. CIRCUIT FIXTURES DENOTED WITH 'NL' AS UNSWITCHED NIGHT LIGHTS.
- 6. FIXTURES DENOTED WITH LOWER CASE LETTERS SHALL BE CONTROLLED BY SWITCHES DENOTED WITH THE SAME LOWER CASE LETTER IN EACH ROOM. 7. FOR EXACT LOCATION OF RECESSED LUMINAIRES, SEE
- ARCHITECTURAL REFLECTED CEILING PLANS AND FOR EXACT LOCATION OF WALL MTD. LUMINAIRES, SEE ARCHITECTURAL ELEVATIONS AND DETAILS.
- 8. ALL EXIT SIGNS AND GENERATOR TRANSFER DEVICES ON NORMAL POWER CIRCUITS SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHING. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES ON ANY CIRCUIT CONTAINING EMERGENCY LOADS.
- 9. PROVIDE CONTROL WIRING BETWEEN OCCUPANCY SENSORS AND POWER PACKS PER MANUFACTURER'S RECOMMENDATIONS.
- 10. PROVIDE WIRING BETWEEN OCCUPANCY SENSOR POWER PACK RELAY AND MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL PROVIDE WIRING AND TERMINATIONS BETWEEN OCCUPANCY SENSOR POWER PACK RELAY AND MECHANICAL EQUIPMENT.
- 11. INSTALL SURFACE MOUNTED EMERGENCY LIGHTING FIXTURES AND/OR EXIT SIGNS ON EITHER WALL OR CEILING SURFACE AS DIRECTED BY THE ARCHITECT. FIELD VERIFY MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 12. SHADED SYMBOL INDICATES EMERGENCY LUMINAIRE CONNECTED TO EMERGENCY POWER SOURCE. WIRE AHEAD OF ANY LOCAL SWITCHING PER NEC ART. 700.
- 13. NL INDICATES AN UNSWITCHED LUMINAIRE SERVING AS A NIGHT LIGHT. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR CIRCUITS CONTAINING NIGHT LIGHTS. 14. PROVIDE LUMINAIRES AS SHOWN ON THE ELECTRICAL AND
- ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATIONS OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LUMINAIRE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR VARIOUS CEILING TYPES.
- 15. LIGHTING CONTROLS SHALL BE LOCATED AT OR NEAR DOORS. INSTALL ON SIDE OPPOSITE HINGE. REFER TO ARCHITECTURAL DETAILS FOR EXACT LOCATION. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO INSTALLATION.
- 16. ALL FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE, 4100K COLOR TEMPERATURE, PHILLIPS, G.E. OR OSRAM-SYLVANIA, WATTAGES AND TYPES AS LISTED IN LUMINAIRE SCHEDULE.
- 17. ALL FLUORESCENT BALLASTS SHALL BE ENERGY SAVING, HIGH POWER FACTOR. TOTAL HARMONIC DISTORTION OF LESS THAN 10%. U.L. LISTED, CLASS P, ELECTRONIC TYPE, ADVANCE, PHILLIPS, MAGNETEK, MOTOROLA OR APPROVED EQUAL.
- 18. SUPPORT GRID TYPE LUMINAIRES INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM, WITH A MINIMUM OF TWO (2) RODS OF WIRE PER LUMINAIRE, LOCATED NOT MORE THAN SIX (6) INCHES FROM LUMINAIRE OPPOSITE CORNERS.
- 19. FIXTURES OF SIZES LESS THAN CEILING GRID SHALL BE INSTALLED AS INDICATED ON REFLECTED CEILING PLANS OR CENTERED IN ACOUSTICAL PANEL. SUPPORT LUMINAIRES INDEPENDENTLY WITH AT LEAST TWO(2)3/4-INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES. PROVIDE 1- SUPPORT WIRE FROM STRUCTURE FOR SMALLER FIXTURES.
- 20. FASTEN SUPPORT CLIPS TO LUMINAIRES AND TO CEILING GRID MEMBERS AT OR NEAR EACH LUMINAIRE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION.
- 21. LUMINAIRE SUBSTITUTIONS SHALL INCLUDE THE FOLLOWING INFORMATION FOR ENGINEER'S APPROVAL: LUMINAIRE PRODUCT DATA SHEETS, PHOTOMETRIC DATA, POINT BY POINT CALCULATIONS OF FOOT-CANDLE LEVELS ON A PER ROOM BASIS.
- 22. EXIT SIGNS ARE NORMALLY ILLUMINATED AT ALL TIMES AND PROVIDED WITH AN EMERGENCY ELECTRICAL SYSTEM FROM STORAGE BATTERIES, UNIT EQUIPMENT, OR AN ON-SITE GENERATOR SET TO INSURE CONTINUED ILLUMINATION FOR AT LEAST 1.5 HOURS IN CASE OF PRIMARY POWER LOSS.

SITE NOTES

- . VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES IN AREA OF WORK AND COORDINATE SAME WITH NEW UNDERGROUND WORK AS REQUIRED.
- 2. ALL WORK ASSOCIATED WITH THE UNDERGROUND INCOMING ELECTRIC SERVICE SHALL BE COORDINATED AND SCHEDULED WITH UNR FACILITIES REPRESENTATIVE.
- ALL WORK ASSOCIATED WITH THE UNDERGROUND INCOMING TELEPHONE SERVICE SHALL BE COORDINATED AND SCHEDULED WITH UNR FACILITIES REPRESENTATIVE.
- 4. ALL UNDERGROUND BRANCH CIRCUITS SHALL BE ROUTED WITHIN MINIMUM 1" SCHEDULE 40 PVC CONDUIT AND #10 AWG WIRE SIZE, COVER REQUIREMENTS PER NEC TABLE 300.5.
- 5. ALL SITE UNDERGROUND CONDUIT PENETRATIONS THRU BUILDING FOUNDATION WALLS SHALL BE SLEEVED AND SEALED WITH A WATERPROOF UL LISTED SEALANT.
- 6. ALL SITE UNDERGROUND CONDUITS SHALL PASS ABOVE AND CLEAR OTHER SITE UTILITIES OR OBSTRUCTIONS INCLUDING STORM, SEWER, GAS BY 12" MINIMUM, UNLESS OTHERWISE NOTED.
- 7. PROVIDE TRENCHING, BACKFILL, AND EQUIPMENT FOUNDATIONS FOR SITE EQUIPMENT PER UNR STANDARDS AND SPECIFICATIONS.
- TRENCH BOTTOMS SHALL BE SMOOTH, FLAT, AND WITHOUT SURFACE IRREGULARITIES, OTHERWISE PROVIDE A SUFFICIENT QUANTITY OF BEDDING MATERIAL TO PROVIDE THE REQUIRED SURFACE. BEDDING MATERIAL SHALL BE SAND. BEDDING MATERIAL SHALL FILL ALL VOIDS AND BE CLEAR OF ANY DEBRIS AND ORGANIC MATERIAL.
- REFER TO ELECTRICAL SITE PLAN FOR LOCATIONS OF TRANSFORMERS AND PRIMARY CABLE ROUTING. CONFIRM EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND EQUIPMENT WITH UNR REPRESENTATIVES PRIOR TO BID.

GENERAL POWER NOTES (TYPICAL ALL POWER SHEETS)

- WIRES REQUIRED ON 1Ø OR 3Ø MECHANICAL UNITS FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.
- 2. PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 LOAD BEING SERVED.
- 3. FOR MECHANICAL EQUIPMENT TYPE, ELECTRICAL REQUIREMENTS AND CIRCUIT INFORMATION, REFER TO MECHANICAL EQUIPMENT SCHEDULE.
- 4. IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS
- 5. FIELD VERIFY EXACT LOCATION OF ALL MECHANICAL AND
- REQUIREMENTS, INCLUDING EXACT LOCATION OF POINT OF CONNECTION, WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN
- 6. LOCATE SWITCHES FOR CONTROL OF FANS IN TWO-GANG BOX WITH LIGHT SWITCH WHERE APPLICABLE.
- 7. PROVIDE #10AWG CONDUCTORS FOR ALL WARM AIR DRYER CIRCUITS. PROVIDE LOCKOUT DEVICE AT ALL BREAKERS SERVING WARM AIR DRYERS.
- KITCHEN EQUIPMENT.1. FOR EXACT LOCATION OF ELECTRICAL EQUIPMENT, SEE ARCHITECTURAL ELEVATIONS AND DETAILS.
- CLEARANCES IN FRONT OF AND AROUND ALL ELECTRICAL PANELS AND DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.26.
- 10. PROVIDE RELATED DISCONNECT SWITCHES AND FINAL POWER CONNECTIONS FOR ELEVATOR MACHINE AND CAB LIGHTING PER MFR'S REQUIREMENTS AS WELL AS LOCAL, STATE AND NATIONAL CODES. IN ADDITION, ALL RELATED ELECTRICAL EQUIPMENT LOCATED LESS THAN 4 FT. ABOVE PIT FLOORS SHALL BE WEATHERPROOF AND IDENTIFIED FOR USE IN WET LOCATIONS PER LATEST EDITION OF ASME A17.1 INCLUDING ADDENDA AND ANY AMENDMENTS.
- 11. MOUNT EQUIPMENT SAFETY SWITCHES DIRECTLY ON UNIT SERVED WHERE REQUIRED. SWITCHES SHALL BE ACCESSIBLE AND MTD. SUCH THAT DOOR HINGE OPENS AT LEAST 90 DEGREES WITHOUT OBSTRUCTION.
- 12. PROVIDE NEW TYPE WRITTEN DIRECTORIES FOR ALL PANELBOARDS INSTALLED OR MODIFIED UNDER THIS CONTRACT.
- 13. VERIFY EQUIPMENT FAULT CURRENT INTERRUPTING CAPACITY REQUIREMENTS PRIOR TO ORDERING ANY RELATED ELECTRICAL DISTRIBUTION EQUIPMENT.
- CONDUCTORS SHALL NOT BE PERMITTED ON THIS PROJECT
- 15. WHERE NEW CIRCUIT BREAKERS ARE INDICATED ON THE DRAWINGS TO BE PROVIDED IN EXISTING PANELBOARDS, CIRCUIT BREAKERS SHALL MATCH EXISTING PANELBOARD MANUFACTURER, STYLE AND INTERRUPTING RATING.
- 16. SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE AS NOTED, NEMA 1 OR NEMA 3R AS INDICATED, HEAVY DUTY, EXTERNALLY OPERATED WHERE NOT FURNISHED WITH CURRENT LIMITING TYPE, MINIMUM 200,000 AIC. CIRCUIT SYSTEMS AND A MINIMUM OF 14,000 AIC FOR 480Y/277V SYSTEMS UNLESS OTHERWISE NOTED.
- DEVICE BOX NOTES 1. SEE SYMBOLS LEGEND THIS SHEET FOR MOUNTING HEIGHTS UNLESS NOTED OTHERWISE ON DRAWINGS.
- 2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF BOXES
- UNLESS NOTES OTHERWISE. 3. PROVIDE BOX EXTENDER FOR FLUSH INSTALLATION OF DEVICES LOCATED IN ARCHITECTURAL CASEWORK THAT IS FLUSH WITH ADJACENT WALL (SUCH AS RECEPTACLES FOR GARBAGE DISPOSERS).
- 4. FLOOR BOXES: OBTAIN OWNER APPROVAL OF ALL BOX LOCATIONS PRIOR TO ROUGH IN. PROVIDE DEVICE PLATES AT DEVICES AND BLANK PLATES AT ALL UNUSED COMPARTMENTS.

STRUCTURE APPLICATIONS.

- COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH MARKERBOARDS. ADJUST BOX LOCATIONS TO AVOID MARKERBOARDS.
- 6. COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH TACKBOARDS. ADJUST BOX LOCATIONS TO AVOID TACKBOARDS. PROVIDE BOX EXTENDER FOR A FLUSH INSTALLATION WHERE DEVICES MUST BE MOUNTED AT TACKBOARD/TACKWALL.
- 7. CEILING MOUNTED RECEPTACLES: AT SUSPENDED CEILINGS, ROUTE POWER TO RECEPTACLE VIA FLEXIBLE METALLIC CONDUIT WITH 6-FOOT SERVICE LOOP. FEED FMC FROM A J-BOX RIGIDLY SUPPORTED A MAXIMUM OF 24-INCHES ABOVE SUSPENDED CEILING OR AT BOTTOM OF STRUCTURE ABOVE, WHICHEVER IS LOWER. LOCATE J-BOX DIRECTLY ABOVE RECEPTACLE AND SUPPORT VIA STRUCTURE, OR VIA THREAD ROD AND UNISTRUT HUNG FROM STRUCTURE ABOVE IN HIGH
- 8. DEVICES RECESSED IN MULLIONS: BACK BOXES TO BE RECESSED FOR FLUSH NSTALLATION OF DEVICE AND WALLPLATE. EXTEND CONCEALED CONDUIT IN MULLION UP TO WALL ABOVE AND STUB OUT ABOVE ACCESSIBLE CEILING. IN AREAS WITH NO CEILING, EXTEND CONDUIT TOWARDS CABLING SOURCE TO ABOVE NEAREST ACCESSIBLE CEILING.

XFMR

TRANSFORMER

1. REVIEW MECHANICAL SUBMITTALS AND VERIFY ANY NEUTRAL

BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO

- FOR CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- PLUMBING EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE INSTALLATION AND WIRING
- 8. PROVIDE GFCI PROTECTION FOR ALL CIRCUITS SERVING
- PROVIDE AND MAINTAIN ELECTRICAL SAFETY AND WORKING
- 14. MULTIWIRE BRANCH CIRCUITS WITH SHARED NEUTRAL
- STARTING EQUIPMENT AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE BREAKERS SHALL HAVE A MINIMUM 10,000 AIC FOR 208Y/120V

GENERAL SYSTEMS NOTES DIVISION 26 WORK

- (TYPICAL ALL SPECIAL SYSTEMS PLANS) TELECOMMUNICATIONS OUTLETS: PROVIDE FOUR-GANG BOX (2.75-INCH DEEP MINIMUM) WITH SINGLE-GANG STRAP MOUNT PLASTER RING AND 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING (EXCEPTION: VOICE-ONLY OR VIDEO-ONLY OUTLETS PER NOTE BELOW).
- 2. TELECOMMUNICATIONS OUTLET INDICATED AS ROUGH IN ONLY (NO SUBSCRIPTS): INSTALL PER NOTE ABOVE, WITH BLANK 302SS SINGLE-GANG WALLPLATE.
- 3. VOICE-ONLY OR VIDEO-ONLY TELECOMMUNICATIONS OUTLET: PROVIDE SINGLE-GANG BOX WITH 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.
- 4. MISCELLANEOUS LOW VOLTAGE OUTLETS (CALL STATIONS, HANDSETS, VOLUME CONTROL, MICROPHONE OUTLETS, SURFACE-MOUNT WALL SPEAKERS AND FIRE ALARM DEVICES): PROVIDE SINGLE-GANG BOX WITH 3/4-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.
- INSULATED BUSHINGS: PROVIDE BUSHINGS ON ALL CONDUIT STUB UPS, INCLUDING BUT NOT LIMITED TO, OUTLETS FOR TELECOMMUNICATIONS, FIRE ALARM, SECURITY, ACCESS CONTROL, MASS NOTIFICATION, PUBLIC ADDRESS, ALL OTHER LOW VOLTAGE INTERCOMMUNICATIONS AND UNUSED STUB-UPS OR STUB-UPS INDICATED FOR FUTURE USE.
- FLOOR BOXES CONTAINING TELECOMMUNICATIONS OUTLETS: FOR EACH LOW-VOLTAGE COMPARTMENT, ROUTE 1-INCH CONDUIT WITH PULL STRING UNDERFLOOR, UP NEAREST WALL, AND STUB INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING. LABEL CONDUIT END 'FLOOR BOX'
- SLEEVES FOR LOW VOLTAGE CABLES: PROVIDE 2-INCH SLEEVES UNLESS NOTED OTHERWISE. COORDINATE WITH PATH OF DUCTWORK AND GWB CEILING TO ENSURE ACCESSIBILITY, EXTEND SLEEVES AS REQUIRED. INSTALL ALL SLEEVES 4-INCHES ABOVE HIGHER CEILING OF TWO ADJACENT SPACES. REFER TO ROOM FINISH SCHEDULES AND REFLECTED CEILING PLANS FOR CEILING HEIGHTS. STUB SLEEVES INTO JOIST SPACE OF FINISHED ROOMS WITH EXPOSED STRUCTURE. PROVIDE INSULATED BUSHINGS ON BOTH ENDS OF ALL SLEEVES, INCLUDING UNUSED SLEEVES. PROVIDE GROUT OR ESCUTCHEONS TO SECURE SLEEVES TO WALL. PROVIDE FIRE-RATED SLEEVES AT ALL FIRE-RATED WALLS.
- 8. PROVIDE ADDITIONAL CONDUIT, BOXES, CONDUCTORS AND OVERCURRENT PROTECTION FOR 120-VOLT BRANCH CIRCUITS NOT SPECIFICALLY COVERED UNDER DIVISION 26 WORK, BUT REQUIRED TO COMPLETE DIVISION 08 AND 28 WORK. DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLIES FOR DOOR HARDWARE, ACCESS CONTROL, FIRE ALARM AND VIDEO SURVEILLANCE.
- 9. CARD READERS: PROVIDE RECESSED SINGLE-GANG BOX WITH GASKETED BLANK COVERPLATE AND EMPTY 1-INCH CONDUIT STUBBED INTO NEAREST ACCESSIBLE SPACE ABOVE FINISHED CEILING OR JOIST SPACE OF ADJACENT EXPOSED STRUCTURE. LABEL CONDUIT END 'CARD READER'.
- 10. PROVIDE WATERFALL DROPOUTS AT ALL CABLE TRAY LOCATIONS ABOVE RUNWAYS, WALL/FLOOR MOUNTED RACKS, AND EQUIPMENT ENCLOSURES.
- 11. AUDIO VISUAL (AV) SYSTEMS: PROVIDE RECESSED BOXES, CONDUIT AND PULL STRINGS FOR ALL SYSTEM COMPONENTS.

GENERAL SYSTEMS NOTES DIVISION 28 WORK

- (TYPICAL ALL SPECIAL SYSTEMS PLANS) 1. PROVIDE MINIMUM CANDELA RATINGS FOR ROOMS WITH WALL MOUNTED VISUAL NOTIFICATION APPLIANCES AS FOLLOWS: <20'x20' = 15cd
- <28'x28' = 30cd <40'x40' = 60cd >40'x40' = 110cd
- 2. PROVIDE MINIMUM CANDELA RATINGS FOR ROOMS WITH CEILING MOUNTED VISUAL NOTIFICATION APPLIANCES ON MAXIMUM 10' HIGH CEILING AS FOLLOWS: <20'x20' = 15cd <30'x30' = 30cd
- <40'x40' = 60cd >40'x40' = 110cd
- INCREASE DEVICE RATINGS/SETTINGS WHEN LOCATED OFF-CENTER IN ROOMS TO MAINTAIN NFPA COVERAGE.
- 4. VISUAL DEVICES IN CORRIDORS SHALL BE 15cd. VISUAL DEVICES LOCATED IN OTHER AREAS SHALL BE 110cd UNLESS NOTED OTHERWISE. 5. IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS
- FOR FIRE ALARM SYSTEM DEVICES CONNECTIONS TO MECHANICAL EQUIPMENT. 6. PROVIDE FIRE ALARM MONITORING OF ALL FLOW AND
- TAMPER SWITCHES. CONFIRM QUANTITIES AND LOCATION WITH DIVISION 21.
- 7. UTILIZE SLEEVES AND FIRE RATED SLEEVES AT RATED WALLS PROVIDED UNDER DIVISION 26 FOR INSTALLATION OF ALL LOW VOLTAGE CABLING. FOLLOW INDUSTRY STANDARDS TO MAINTAIN 40% FILL REQUIREMENTS IN ALL SLEEVES (SUPERSEDES NEC - DO NOT FILL SLEEVES TO CAPACITY) PROVIDE ADDITIONAL SLEEVES MEETING DIVISION 26 REQUIREMENTS AS REQUIRED.
- 8. SYSTEM PANEL LOCATIONS: AUXILIARY SYSTEM PANELS, POWER SUPPLIES OR OTHER EQUIPMENT ENCLOSURES SHALL NOT BE LOCATED IN TELECOM ROOMS UNLESS NOTED OTHERWISE. IF DRAWINGS DO NOT DEPICT LOCATIONS FOR AUXILIARY COMPONENTS, CONSULT OWNER OR A/E PRIOR TO EQUIPMENT INSTALLATION.
- 9. DUCT SMOKE DETECTION: DETERMINE QUANTITY AND PLACEMENT OF DETECTORS REQUIRED FOR COVERAGE OF DUCTWORK BASED ON NFPA REQUIREMENTS. PROVIDE MECHANICAL EQUIPMENT FAN SHUTDOWN RELAY AT ALL DUCT DETECTORS. SEE HVAC PLANS FOR EQUIPMENT LOCATIONS. COORDINATE SHUTDOWN CONTROL WITH
- DIVISION 23. 10. SMOKE DAMPERS AND FIRE-SMOKE DAMPERS: PROVIDE FIRE ALARM CONNECTION AND 120-VOLT POWER TO EACH FIRE/SMOKE DAMPER SHOWN ON HVAC PLANS. PROVIDE DEDICATED CIRCUIT TO DAMPERS, ROUTED THROUGH NORMALLY CLOSED FIRE ALARM RELAY, MOUNTED ON WALL IN NEAREST ELECTRICAL ROOM. COORDINATE WITH DAMPER MANUFACTURER FOR SPECIFIC DAMPER LOAD REQUIREMENTS. RELAY SHALL BE CONTROLLED BY FACP, SUCH THAT, ON GENERAL ALARM DAMPERS CLOSE. FIRE ALARM CONNECTION TO DAMPER SHALL BE A SUPERVISORY CIRCUIT MONITORING STATUS OF INTEGRAL SMOKE DETECTOR, AND SHALL PROVIDE REMOTE FIRE/SMOKE DAMPER RESET. FACP SHALL INITIATE A SUPERVISORY SIGNAL WHEN INTEGRAL DETECTOR GOES INTO ALARM. FIRE/SMOKE DAMPERS MAY BE GROUPED TOGETHER ON SUPERVISORY CIRCUITS TO SIMPLIFY WIRING. COORDINATE REQUIREMENTS WITH FIRE/SMOKE DAMPER MANUFACTURER. UTILIZE SPARE 20/1 BREAKERS. LABEL TYPED PANEL
- 11. PROVIDE WIREGUARDS ON ALL FIRE ALARM STROBES AND HORN/STROBES IN GYMNASIUMS.

DIRECTORY 'FIRE/SMOKE DAMPERS - (INDICATE AREA

SERVED)'.

GENERAL SYMBOLS

DETAIL NUMBER ? ~ SIM

、??? / \ ??? (?)_____ - _____ ROOM NAME <u>???</u>

DESCRIPTION



CROSS REFERENCE

SHEET NUMBER

KEYED NOTE COLUMN GRID LINE

ROOM NAME / ROOM NUMBER DOOR NUMBER

EQUIPMENT TAG

REVISION NUMBER

XXX-X 🛰 LIGHTING FIXTURES LIGHTING FIXTURE └──── LIGHTING FIXTURE WALL MOUNTED LIGHTING FIXTURE WALL WASHER HIGH BAY LIGHTING FIXTURE → WALL MOUNTED LIGHTING FIXTURE

<u>AREA LIGHTING</u>

ARROW(S)

0	SITE LIGHTING
-	POLE MOUNT
-	POLE WITH PO
-	WALL MOUNT
0	IN GRADE LIG
⊗	BOLLARD LIG

LIGHTING CONTROL DEVICES

<u>RPx</u>	LIGHTING CO
<u>CVx</u>	CENTRAL INV
R	LOW VOLTAG
PC	PHOTOELECT
LC	LIGHTING CO
BAT	REMOTE EME

GENERAL SYSTEMS NOTES DIVISION 27 WORK (TYPICAL ALL SPECIAL SYSTEMS PLANS)

- 1. ALL SPEAKERS AND HORN-TYPE SPEAKERS ARE PART OF THE
- INTERCOM SYSTEM, UNLESS NOTED OTHERWISE. 2. PROVIDE SURFACE MOUNT ENCLOSURE AND BAFFLE FOR ALL
- SPEAKERS IN FINISHED SPACES WITH NO CEILINGS (EXPOSED STRUCTURE).
- 3. UTILIZE SLEEVES AND FIRE RATED SLEEVES AT RATED AND VAPOR BARRIER WALLS PROVIDED UNDER DIVISION 26 FOR INSTALLATION OF ALL LOW VOLTAGE CABLING. FOLLOW INDUSTRY STANDARDS TO MAINTAIN 40% FILL REQUIREMENTS IN ALL SLEEVES (SUPERSEDES NEC - DO NOT FILL SLEEVES TO CAPACITY). PROVIDE ADDITIONAL SLEEVES MEETING **DIVISION 26 REQUIREMENTS AS REQUIRED.**
- 4. SYSTEM PANEL LOCATIONS: AUXILIARY SYSTEM PANELS, POWER SUPPLIES OR OTHER EQUIPMENT ENCLOSURES SHALL NOT BE LOCATED IN TELECOM ROOMS UNLESS NOTED OTHERWISE. IF DRAWINGS DO NOT DEPICT LOCATIONS FOR AUXILIARY COMPONENTS, CONSULT OWNER OR A/E FOR APPROVED LOCATIONS PRIOR TO EQUIPMENT INSTALL.
- 5. CONTRACTOR SHALL SUBMIT CONDUIT ROUTING PLAN FOR ALL EXPOSED AREAS. ALL CONDUIT AND JUNCTION BOXES SHALL BE ROUTED AS CLOSE TO THE CEILING AS POSSIBLE. CONDUITS AND BOXES EXITING FROM AN AREA WITH A LOWER CEILING SHALL ENTER THE EXPOSED CEILING SPACE AS CLOSE AS POSSIBLE TO THE ROOF DECK. CONTRACTOR SHALL PAINT SUPPORTS, BOXES, CONDUITS AND ALL ASSOCIATED EQUIPMENT PER THE ARCHITECTS DIRECTION COORDINATE COLORS AND ROUTING WITH ARCHITECT AND

OWNER PRIOR TO INSTALLATION.

	CONDUIT STUB-UP
E3	CONDUIT SLEEVE
	CONDUIT SEAL
\frown	CONDUIT CONCEALE
*	CONDUIT CONCEALE OTHER (* = SEE ABB
	CONDUIT CONCEALE
*	CONDUIT CONCEALE OTHER (* = SEE ABB
I	EXPOSED CONDUIT,
 ا	EXPOSED CONDUIT, OTHER (= SEE ABB
E-FRS-3	FIRE RATED SLEEVE
Т	TRANSFORMER
XXX	BRANCH CIRCUIT PA MOUNT 72-INCHES T
XXX Z	DISTRIBUTION PANE 72-INCHES TO TOP
	EQUIPMENT CABINE
	SWITCHBOARD
\boxtimes	MOTOR STARTER O
	DISCONNECT SWITC
\boxtimes	COMBINATION STAR
CT	CURRENT TRANSFO
M	METER
GEN	GENERATOR
ATS	AUTOMATIC TRANSF
_ <u>_</u>	SYSTEM GROUND E
- HD	THERMOSTAT
Ŷ	MUSHROOM SWITCH
-	

L	
1H	
IH	ELECTRICAL H
Ø	MOTOR CONN
SF	FUSE AND SW
ST	MANUAL CON
S _M	MANUAL CON
В	CIRCUIT BREA
ΡB	PULL BOX
	EQUIPMENT C
Ħ	CABLE TRAY,
	CABLE TRAY

	CAE
<u></u>	MUI MO WH

PUSHBUT	TON STATIO
•	SWITCH,
•	SWITCH,
000	SWITCH,

LIGHTING FIXTURE TAG

LIGHTING

SWITCHES AND WALL-BOX CONTROLS

- FIXTURE TYPE ____ XXX-X-
 - LOCAL SWITCH DESIGNATION
- LIGHTING FIXTURE ON EMERGENCY SYSTEM
- O CEILING FIXTURE, SURFACE, RECESSED OR PENDANT
- LIGHTING FIXTURE ON EMERGENCY SYSTEM
- **↓ ∇ ↓** LIGHTING TRACK, TRACK MOUNTED LIGHT FIXTURES

- SELF CONTAINED EMERGENCY LIGHTING UNIT
- MOUNT 94-INCHES AFF, UNO EXIT SIGN, CEILING MOUNTED,
- DIRECTIONAL ARROW(S) AS INDICATED ► EXIT SIGN, WALL MOUNTED, DIRECTIONAL
 - AS INDICATED. MOUNT 94-INCHES AFF, UNO
- SITE I IGHTING POLE
 - TED AREA LIGHTING FIXTURE POLE MOUNTED AREA LIGHTING FIXTURE TED AREA LIGHTING FIXTURE IGHT FIXTURE
 - GHT FIXTURE

 - ONTROL PANEL VERTER
 - TRIC CELL
 - ONTACTOR
 - ERGENCY BATTERY PACK
- CIRCUIT HOME RUN ———
 — CONDUIT TURNING UP CONDUIT TURNING DOWN

 - EALED IN CEILING OR WALLS, POWER EALED IN CEILING OR WALLS, ABBREVIATIONS)
 - EALED IN FLOOR OR UNDERGROUND, POWE EALED IN FLOOR OR UNDERGROUND, ABBREVIATIONS)
 - UIT, POWER ABBREVIATIONS)
 - FVF

 - PANELBOARD ES TO TOP ANELBOARD MOUNT
 - BINET, AS NOTED

 - R OR DRIVE
 - VITCH
 - TARTER / DISCONNECT SWITCH
 - SFORMER ENCLOSURE
 - NSFER SWITCH
 - ND ELECTRODE
 - /ITCH
 - MANHOLE HAND HOLE
 - NNECTION, HORSEPOWER AS INDICATED
 - WITCH ASSEMBLY NTROLLER WITH THERMAL OVERLOAD
 - NTROLLER W/O THERMAL OVERLOAD EAKER ENCLOSURE
 - CONNECTION
 - , LADDER TYPE OR RUNWAY
 - LTI-OUTLET ASSEMBLIES DUNT 18-INCHES AFF, UNO
- HERE DENOTED 'AC', MOUNT ABOVE COUNTER ______ DIVIDED SURFACE RACEWAY MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER ION: MOUNT 42-INCHES AFF UNO
 - PUSH BUTTON, SINGLE PUSH BUTTON, DOUBLE
 - PUSH BUTTON, TRIPLE

	SWITCHES: MOUNT 42-INCHES AFF UNO
<i>k</i>	SUPERSCRIPT , SWITCH SHALL CONTROL FIXURE DENOTED WITH SAME LOWER CASE LETTER
ş _x	SWITCH SYMBOL
	SUBSCRIPT, SWITCH TYPE - SEE BELOW
	LINE THRU SWITCH INDICATES A KEY OPERATED SWITCH
S	SWITCH, SINGLE POLE
S ₂	SWITCH, DOUBLE POLE
s ₃	SWITCH, 3-WAY
S ₄	SWITCH, 4-WAY
SD	SWITCH, DIMMER
S _E	SWITCH, EMERGENCY
SL	SWITCH, LOW VOLTAGE
S _M	SWITCH, MASTER
s _o	SWITCH, WALL-BOX OCCUPANCY SENSOR
S _{O2}	SWITCH, WALL-BOX OCCUPANCY SENSOR, 2-POLE
S _P	SWITCH WITH PILOT LIGHT
S _R	SWITCH, LOW VOLTAGE, ASSOCIATED WITH RELAY PANEL
ST	SWITCH, TIMER
S_V	SWITCH, WALL-BOX VACANCY SENSOR
S _X	SWITCH, EXPLOSION-PROOF
<u>CEILING</u> MAXIMU	MOUNTED LIGHTING CONTROL DEVICES
OS	OCCUPANCY SENSOR
VS	VACANCY SENSOR

WALL MOUNTED LIGHTING CONTROL DEVICES:

MOUNT	94-INCHES AFF, UNO
⊤ OS	OCCUPANCY SENSOR
VS	VACANCY SENSOR
THEAT	RICAL LIGHTING DEVICES:
LCD	THEATRICAL LIGHTING LCD STATION MOUNT 50-INCHES AFF, UNO
E	THEATRICAL LIGHTING ENTRY STAT

- MOUNT 42-INCHES AFF, UNO THEATRICAL OUTLET BOX
- MOUNT 18-INCHES AFF, UNO THEATRICAL NETWORK OUTLET TN
- MOUNT 18-INCHES AFF, UNO THEATRICAL CONTROL CONSOLE OUTLET TC MOUNT 18-INCHES AFF, UNO
- POWER

RECEPTACLES: MOUNT 18-INCHES AFF, UNO DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOVE COUNTER. WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS.

LARELS SHALL BE MACHINE PRINTED LINO

	LINDLLO	
ER	1年後山山 5	SIMPLEX RECEPTACLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE, GFI TYPE DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	₩₩	FOURPLEX RECEPTACLE FOURPLEX RECEPTACLE, GFI TYPE FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	÷	DUPLEX RECEPTACLE, FLUSH IN CEILING
	₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽	DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE DUPLEX RECEPTACLE, HORIZ. MTD, ABOVE COUNTER DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE, MOUNT ABOVE COUNTER
	=∃ _R	WEATHER RESISTANT GFI DUPLEX RECEPTACLE, ROOF MOUNT 18-INCHES ABOVE ADJACENT STRUCTURE WITH A WEATHERPROOF, IN-USE COVER
		WEATHER RESISTANT GFI DUPLEX RECEPTACLE, MOUNT 18-INCHES AFF WITH A WEATHERPROOF, IN-USE COVER
	⇒ _{ewc}	STD DUPLEX RECEPTACLE TO SERVE ELECTRIC WATER COOLER, MOUNT AT HEIGHT PER EQUIPMENT MANUFACTURER'S INSTALLATION GUIDELINES. WIRE TO GFCI BKR IN PANELBOARD.
	€	DUPLEX RECEPTACLE TO SERVE TELEVISION, MOUNT AT SAME HEIGHT AND WITHIN 8-INCHES OF ADJACENT TV OUTLET
	-	DUPLEX RECEPTACLE, EMERGENCY
	-	FOURPLEX RECEPTACLE, EMERGENCY
	-	DUPLEX RECEPTACLE, LOWER SWITCH
	-	DUPLEX RECEPTACLE, SWITCHED
	€	RANGE RECEPTACLE, MOUNT 8-INCHES AFF
	H	SPECIAL RECEPTACLE, DEEP WELL BOX
	۲	FLUSH FLOOR OUTLET BOX UNO
	⊛⊕	FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE UNO
	×O=⊖	MULTI-DEVICE FLOOR BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS OUTLETS
	⊢© =©	USB ONLY RECEPTACLE RECEPTACLE WITH USB PORTS
	J	FLUSH JUNCTION BOX, CEILING MOUNTED
	0 _P	JUNCTION BOX FOR FUTURE PROJECTOR POWER MOUNT 24-INCHES ABOVE SUSPENDED CEILING MOUNT TIGHT TO CEILING AT EXPOSED STRUCTURE

- LABEL BOX COVER 'PROJECTOR POWER' JUNCTION BOX ABOVE SUSPENDED CEILING WITH FLEX CONNECTION
- FLUSH JUNCTION BOX, WALL MOUNTED нIJ SURFACE JUNCTION BOX, WALL MOUNTED
- SURFACE JUNCTION BOX, CEILING MOUNTED
- HAND DRYER, INSTALL HAND DRYER SPECIFIED IN DIV. 11

COMMUNICATIONS

<u>TELE</u> UNO	COMMUNICATIONS OUTLETS: MOUNT 18-INCHES AFF, AND WITHIN 8-INCHES OF ADJACENT RECEPTACLE		<u>BELLS, BUZZERS, CHIN</u> MOUNT 94-INCHES AFF
WHE	RE DENOTED 'AC', MOUNT ABOVE COUNTER RE DENOTED 'C', MOUNT FLUSH IN CEILING	Do	CLASS PROGRAM BEL
\triangleleft	TELECOMMUNICATIONS OUTLET PROVIDE JACKS UNDER A COMMON FACEPLATE: TWO CAT6A DATA		BUZZER
\triangleleft_1	TELECOMMUNICATIONS OUTLET PROVIDE JACKS UNDER A COMMON FACEPLATE: TWO CAT6A DATA/ ONE CAT6A VOICE	ı⊂ı⁄ ⊢⊗́>	SPEAKER,
\triangleleft_2	TELECOMMUNICATIONS OUTLET PROVIDE JACKS UNDER A COMMON FACEPLATE: TWO CAT6A DATA/ TWO CAT6A VOICE	\$	WALL SPEAKER, FLUSH IN CI BACKBOX WHERE EXP
•	TELECOMMUNICATIONS OUTLET MOUNTED IN FLOOR BOX	\$ PA	PUBLIC ADDRESS (A/V IN CEILING
æ	WIRELESS ACCESS POINT (ONE CAT6A)	$\vdash \!$	SPEAKER/HORN, WALL
æ2	WIRELESS ACCESS POINT (TWO CAT6A)	$\vdash \bigcirc$	INTERCOM CALLBACK MOUNT 42-INCHES AFF
⊢♠₽	WIRELESS ACCESS POINT, WALL MOUNTED (TWO CAT6A)	$\vdash \bigcirc_2$	TWO-WAY INTERCOM/ UNIT MOUNT 42-INCHE
4	ANALOG VOICE ONLY TELECOM OUTLET (TELEPHONE OUTLET)	$\vdash \!$	INTERCOM MASTER ST MOUNT 18-INCHES AFF
	MOUNT 18-INCHES AFF, UNO. EQUIVALENT TO WHERE DENOTED 'W' MOUNT 50-INCHES AFF	$\overline{\mathbb{A}}$	INTERCOM HANDSET MOUNT 50-INCHES AFF
нŵ	VIDEO ONLY TELECOM OUTLET (TELEVISION OUTLET)	$\vdash \!\!\!\! \bigtriangledown$	VOLUME CONTROL, WA MOUNT 42-INCHES AFF
$\widehat{\mathbb{V}}$	TELEVISION OUTLET, FLUSH IN CEILING	$\vdash \hspace{-1.5mm} \bigstar$	MICROPHONE OUTLET MOUNT 18-INCHES AFF
HÀV	AV OUTLET. PROVIDE TWO BOXES PER DETAIL 23 / E6.03.	•M>	FLUSH FLOOR BOX WI
	FLOOR MOUNTED TELECOMMUNICATIONS RACK	НÔ	DIRECTORS HEADSET
	CLOCKS: MOUNT 94-INCHES AFF, UNO	$\vdash\!$	CLOCK - MASTER
Ю	CLOCK - WALL MOUNT	$\bigcirc_{_{\rm DS}}$	CLOCK - CEILING MOUN
HOns	CLOCK - DOUBLE FACE		
1.61			

SAFETY

FACP	MOUNT CENTER OF DISPLAY 54-INCHES AFF	So	SPRINKLER SYSTEMS
FAA	FIRE ALARM ANNUNCIATOR PANEL MOUNT CENTER OF DISPLAY 54-INCHES AFF	D	FIRE ALARM MAGNETIC HOLDER MOUNT 74-INC
LOC	LOCAL OPERATOR'S CONSOLE MOUNT CENTER OF DISPLAY 54-INCHES AFF	L	REMOTE INDICATOR LA
NAC	NOTIFICATION APPLIANCE CIRCUIT CABINET	OSY	OS&Y VALVE
		FS	WATER FLOW ALARM S
F	MANUAL FIRE ALARM PULL STATION MOUNT 42-INCHES AFF	TS	TAMPER SWITCH
		ΗŢ	BEAM TRANSMITTER
HIGHER, L	INO	⊢®	BEAM RECEIVER
Fþ	FIRE ALARM BELL	FF	FIRE FIGHTERS TELEP
F⊲	FIRE ALARM HORN		MOUNT 54-INCHES AFF
Ē	FIRE ALARM VISUAL WARNING SIGNAL	$\vdash \leftarrow$	DAS ANTENNA
Fp	FIRE ALARM BELL WITH VISUAL WARNING SIGNAL		
€Þ	FIRE ALARM HORN WITH VISUAL WARNING SIGNAL		
Ē	MINI FIRE ALARM HORN WITH VISUAL WARNING SIGNAL	⊡D	SMOKE DETECTOR - IC
Ēþ	FIRE ALARM SPEAKER WITH VISUAL WARNING SIGNAL	P	SMOKE DETECTOR - PI (D = DUCT)
_			SMOKE DETECTOR - IC
<f></f>	FIRE ALARM SPEAKER, FLUSH IN CEILING	$\langle \mathbb{P} \rangle$	SMOKE DETECTOR - PI
₹ F	FIRE ALARM SPEAKER WITH VISUAL WARNING SIGNAL, CEILING	_	

135 F

ACCESS CONTROL

)	FIRE ALARM VISUAL WARNING SIGNAL, CEILING
>	ECS SPEAKER, FLUSH IN CEILING
∢	ECS SPEAKER WITH VISUAL WARNING SIGNAL, CEILING

ECS VISUAL WARNING SIGNAL, CEILING

SECURITY

	INTRUSION DETECTOR, CEILING	(xxx)	DOOR TAG
	INTRUSION DETECTOR, WALL	ACP	ACCESS CONTROL SYS
MD LR	MOTION DETECTOR - LONG RANGE	Ρ	DOOR POSITION SWITC
MD BR	MOTION DETECTOR - BROAD RANGE	PS	POWER SUPPLY, 120V
MD 360	MOTION DETECTOR - 360 DEGREES	CR	CARD READER MOUNT 36-INCHES AFF
GB	GLASS BREAK DETECTOR	EL	DOOR WITH ELECTRIFI
- k	SECURITY KEYPAD MOUNT 48-INCHES AFF		REFER TO DOOR HARD

VIDEO SURVEILLANCE

SPD

 $\Delta \mid XX$

UU

XXX/X

XXX/3 XXX

LSIG

INTRUSION DETECTION

⊢⊖_C CLOCK - OUTLET

FIRE ALARM CONTROL PANE

- XXX VIDEO CAMERA CEILING (2) CAT6A BLUE CABLES
- HXXX VIDEO CAMERA WALL (2) CAT6A BLUE CABLES

ONE-LINE DIAGRAM ENCLOSED CONTROLLER (ACROSS-THE-LINE UNO) MOUNT 60-INCHES AFF TO TOP X = STARTER NEMA SIZE ENCLOSED SWITCH; MOUNT 60-INCHES AFF TO TOP XX/X = AMP RATING / NO. OF POLES XXAF = FUSE SIZE; AF=AMP FUSE; NF=NO FUSE X = STARTER NEMA SIZE COMBINATION CONTROLLER \ DISCONNECT: MOUNT 60-INCHES AFF TO TOP XX/X = AMP RATING / NO. OF POLES XXAF = FUSE SIZE; AF=AMP FUSE; NF=NO FUSE XX = ENCLOSURE NEMA RATING; BLANK=NEMA 1; WP=NEMA 3R METER SOCKET/METER SURGE PROTECTION DEVICE TRANSFORMER T = TRANSFORMER ID XX = SIZE



GROUNDING ELECTRODE SYSTEM

BUZZERS, CHIMES AND WALL SPEAKERS: 94-INCHES AFF, UNO PROGRAM BELL ER, FLUSH IN CEILING, ENCLOSED IN OX WHERE EXPOSED ADDRESS (A/V) SYSTEM SPEAKER, FLUSH ER/HORN, WALL OM CALLBACK STATION 42-INCHES AFF AY INTERCOM/CALL STATION COMBINATION OUNT 42-INCHES AFF OM MASTER STATION OUTLET 18-INCHES AFF 50-INCHES AFF E CONTROL, WALL 42-INCHES AFF PHONE OUTLET, WALL 18-INCHES AFF FLOOR BOX WITH MICROPHONE OUTLET CEILING MOUNT, DOUBLE FACE ELECTRIC BELL ALARM C DOOR CHES AFF AMP SWITCH HONE DNIZATION TYPE (D = DUCT) HOTOELECTRIC TYPE ONIZATION TYPE PHOTOELECTRIC TYPE HEAT DETECTOR RATE-OF-RISE AND FIXED TEMPERATURE, 135 F HEAT DETECTOR, RATE-OF-RISE AND FIXEDTEMPERATURE, 200 F HEAT DETECTOR, FIXED TEMPERATURE ONLY, (HEAT DETECTOR, FIXED TEMPERATURE ONLY, STEM CONTROL PANEL INPUT (2) CAT6A CABLES ED DOOR HARDWARE. WARE SPECIFICATIONS.





MECHANICAL ENGINEERING, L.L.O Ο -----

> CONSTRUCTION DOCUMENTS -100% 03/29/2024 REVISIONS

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30-19128-04

ELECTRICAL SYMBOLS AND ABBREVIATIONS

E0.

GENERAL

ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE CURRENTLY EFFECTIVE EDITION OF THE NEC AS ADOPTED BY THE LOCAL JURISDICTION INCLUDING ANY LOCAL AMENDMENTS, ORDINANCES, AND INTERPRETATIONS. ELECTRICAL WORK SHALL ALSO COMPLY WITH ANY APPLICABLE FEDERAL AND STATE REGULATIONS. AS A QUALITY ASSURANCE, PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION (NECA) "STANDARD OF INSTALLATION." ALL EQUIPMENT SHALL BE NEW, U.L. LISTED AND APPROVED.

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE BUT, MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND SHALL COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS, AND SHALL THOROUGHLY FAMILIARIZE ONESELF WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF THE WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS BID.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES AND FOR ALL ELECTRICAL REFERENCES INDICATING ADDITIONAL WORK ON ARCHITECTURAL DRAWINGS

DISCREPANCIES BETWEEN DIFFERENT DESIGN DRAWINGS, ACTUAL EXISTING CONDITIONS AND THE CONTRACT DRAWINGS, OR DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING FINAL BID.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACIES RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING". AS USED HEREIN. INCLUDES FURNISHING AND INSTALLING CONDUIT. WIRE. JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CHECK ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE FOUIPMENT

INSTALL BLACK PHENOLIC NAMEPLATES WITH WHITE ENGRAVED DESIGNATIONS FOR PANEL BOARDS, PANEL BOARD FEEDER DEVICES, JUNCTION BOXES AND PULL BOXES. SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK SHOWN ON THESE DRAWINGS.

TEMPORARY ELECTRICAL SERVICE, LIGHTING, AND RELATED WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR TO OSHA REQUIREMENTS FOR THE USE OF ALL TRADES DURING CONSTRUCTION. TEMPORARY POWER MAY BE EXTENDED FROM THE OWNER'S EXISTING ELECTRICAL SERVICE. THE POINT OF CONNECTION AND METHOD OF EXTENSION SHALL BE APPROVED BY THE OWNER.

THE EXISTING ELECTRICAL DISTRIBUTION SHALL REMAIN ACTIVE FOR THE DURATION OF CONSTRUCTION. IF SHUTDOWN TIME IS REQUIRED. IT SHALL BE AT THE CONTRACTOR'S EXPENSE AND AT A TIME DIRECTED BY THE OWNER. DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT IS A PART OF THE ELECTRICAL WORK AND IS DESCRIBED ON THE DRAWINGS.

THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THE SITE. DISCONNECT AND REMOVE ALL TEMPORARY POWER INCLUDING BUT, NOT NECESSARILY LIMITED TO PANELS, FIXTURES, BOXES AND WIRING.

DISTRIBUTION EQUIPMENT

ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, INSTEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, ALL KEYED ALIKE. APPROVED MANUFACTURES SHALL BE SQUARE D, CUTLER-HAMMER, GENERAL ELECTRIC OR SIEMENS.

ALL BUSING, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 98% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIN-PLATED JOINTS, AND SIZED ON THE BASIS OF 1000 AMPERES PER SQUARE INCH CROSS-SECTIONAL AREA. BUSING SHALL BE ARRANGED FOR SEQUENCING PHASING.

PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON, MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AND INTERRUPTING RATINGS AS SHOWN ON THE DRAWINGS. EQUIPMENT INTERRUPTING RATINGS INDICATED ON THE DRAWINGS ARE BASED ON

PRELIMINARY INFORMATION AND ARE SHOWN FOR BIDDING PURPOSES ONLY. VERIFY EQUIPMENT INTERRUPTING CAPACITY REQUIREMENTS PRIOR TO ORDERING ANY RELATED ELECTRICAL DISTRIBUTION EQUIPMENT. CABINETS SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER SPACE OF AT LEAST 6" ON

SIDES, TOP AND BOTTOM. BACK BOXES SHALL BE CONSTRUCTED OF CODE GAUGE SHEET STEEL. GALVANIZED TRIMS SHALL BE PRIMED FOR FINISH PAINTING BY OTHERS.

DOORS AND TRIMS SHALL EACH BE IN ONE PIECE SO DESIGNATED THAT DOORS WILL OPEN 180[^]. TRIMS SHALL BE FASTENED TO BACK BOXES BY SCREWS. SEAL ALL EXISTING PANEL KNOCKOUTS NOT BEING UTILIZED.

WHERE CIRCUIT BREAKERS ARE INDICATED ON THE DRAWINGS TO BE PROVIDED IN EXISTING PANELBOARDS, CIRCUIT BREAKERS SHALL MATCH EXISTING PANELBOARD MANUFACTURER, CIRCUIT BREAKER STYLE AND PANEL INTERRUPTING RATING (AIC).

SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE (AS NOTED OR AS REQUIRED) NEMA 1, HEAVY DUTY, EXTERNALLY OPERATED WHERE NOT FURNISHED WITH STARTING EQUIPMENT AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE CURRENT LIMITING TYPE, MINIMUM 200,000 AIC. CIRCUIT BREAKERS SHALL HAVE A MINIMUM 10,000 AIC FOR 208Y/120V SYSTEMS AND A MINIMUM OF 14,000 AIC FOR 480Y/277V SYSTEMS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

TRANSFORMERS SHALL BE INDOOR, DRY-TYPE, VENTILATED, AND SOUND LEVELS NOT TO EXCEED NEMA STANDARDS. APPROVED MANUFACTURERS SHALL BE SQUARE D, ACME, CUTLER-HAMMER, GENERAL ELECTRIC OR SIEMENS.

POWER SYSTEM STUDY

A REPORT CONTAINING THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND SHALL BE SECURED BEFORE EQUIPMENT IN QUESTION IS ORDERED, BUILT OR INSTALLED:

FAULT CURRENT STUDY - USE COMPUTER BASED SOFTWARE COMPLYING WITH IEEE 399. HAND CALCULATIONS ARE NOT ACCEPTABLE. CALCULATE MAXIMUM SHORT CIRCUIT CURRENT AVAILABLE AT EACH SYSTEM NODE. CALCULATIONS SHALL BE BASED UPON A THREE-PHASE BOLTED FAULT AT EACH NODE. MOTOR FAULT CURRENT CONTRIBUTION SHALL BE INCLUDED. NORMAL AND ALTERNATE POWER SYSTEMS SHALL BE INCLUDED. CALCULATIONS SHALL COMPLY WITH IEEE AND ANSI STANDARDS FOR A FAULT CURRENT STUDY

COORDINATION STUDY - USE COMPUTER BASED SOFTWARE COMPLYING WITH IEEE 399. HAND CALCULATIONS ARE NOT ACCEPTABLE. CALCULATE HALF-CYCLE, 5-CYCLE AND 2 SECOND MAXIMUM AND MINIMUM SHORT CIRCUIT CURRENTS AND GROUND FAULT CURRENTS. PROVIDE SETTINGS SELECTED FOR OVER CURRENT PROTECTIVE DEVICES. PROVIDE COORDINATION CURVES IN FULL COLOR FORMAT. CALCULATIONS SHALL COMPLY WITH IEEE AND ICEA.

ARC FLASH STUDY - USE COMPUTER BASED SOFTWARE COMPLYING WITH IEEE 399. HAND CALCULATIONS ARE NOT ACCEPTABLE. DETERMINE APPROPRIATE FIELD MARKING OF SUBSTATIONS, SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, CONTROL PANELS AND MOTOR CONTROL PANELS. PROVIDE A WRITTEN REPORT INDICATING DEVICE TAG, APPROPRIATE PPE LEVEL, FLASH HAZARD BOUNDARY, CAL/SQ. CM FLASH HAZARD VALUE AT 18 INCHES AND KV AVAILABLE WHEN COVER IS REMOVED. PROVIDE 3 INCH WIDE BY 2 INCH HIGH BLACK ON YELLOW, WARNING PLACARD ON EQUIPMENT INDICATING INCH FLASH HAZARD BOUNDARY, CAL/SQ. CM. FLASH HAZARD AT 18 INCHES, PPE LEVEL, (PPE EQUIPMENT DESCRIPTION), KV SHOCK HAZARD WHEN COVER IS REMOVED, KA BOLTED FAULT CURRENT AND EQUIPMENT NAME CALCULATIONS SHALL COMPLY WITH IEEE 1584.

LUMINAIRES

FURNISH AND INSTALL LUMINAIRES AS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATIONS OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LUMINAIRE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES

SUPPORT GRID TYPE LUMINAIRES FROM SUSPENDED CEILING SYSTEM AND WITH A MINIMUM OF FOUR (4) RODS OF WIRE PER LUMINAIRE, LOCATED NOT MORE THAN SIX (6) INCHES FROM LUMINAIRE CORNERS. LUMINAIRE SUBSTITUTIONS SHALL INCLUDE THE FOLLOWING INFORMATION FOR ENGINEER'S APPROVAL: LUMINAIRE PRODUCT DATA SHEETS, PHOTOMETRIC DATA, POINT BY POINT CALCULATIONS OF FOOT-CANDLE LEVELS ON A PER ROOM BASIS.

ALL LUMINAIRE TYPES DENOTED AS "EMERGENCY" LUMINAIRES SHALL BE FURNISHED WITH EMERGENCY BATTERY PACKS INTEGRAL TO THE LUMINAIRE, OR CIRCUITED THROUGH AN INVERTER, AS REQUIRED FOR EMERGENCY EGRESS ILLUMINATION PER IBC.

WIRING DEVICES

SPECIFICATION GRADE DUPLEX RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE, 20 AMPERE NEMA 5-20R TAMPER-RESISTANT AS MANUFACTURED BY ONE OF THE FOLLOWING: HUBBEL

 ARROW-HART BRYANT PASS & SEYMOUR

SINGLE POLE TOGGLE SWITCHES SHALL BE 20 AMPERE, 120/277 VAC AS MANUFACTURED BY ONE OF THE FOLLOWING:

 HUBBEL ARROW-HART BRYANT

PASS & SEYMOUR

TOGGLE SWITCHES WITH OVERLOAD PROTECTION AND INDICATOR LIGHT SHALL BE PROVIDED FOR EXHAUST FANS, WITH HEATER ELEMENT SIZE AS REQUIRED, UNLESS OTHERWISE NOTED. WHERE MULTIPLE DEVICES ARE INDICATED IN A COMMON LOCATION, GANG INTO A SINGLE COVER PLATE. COLORS OF ALL WIRING DEVICES AND ASSOCIATED COVER PLATES SHALL BE PER ARCHITECT'S DIRECTION. DEVICE COVERPLATES SHALL BE STEEL, WHITE, PAINTED AS DIRECTED BY ARCHITECT. RECEPTACLES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE LISTED WEATHERPROOF, TAMPER

RESISTENT AND SHALL BE INSTALLED WITH AMETALLIC, HEAVY-DUTY, WP WHILE-IN-USE COVER. LIGHTED TOGGLE SWITCHES SHALL BE FURNISHED WITH LIGHT-ON/LOAD-OFF AND PILOT LIGHT TOGGLE SWITCHES SHALL BE FURNISHED WITH LIGHT-ON/LOAD-ON. RECEPTACLES AND SWITCHES CONNECTED TO OR CONTROLLING EMERGENCY CIRCUITS SHALL BE RED COLOR WITH COVER PLATE AS DIRECTED BY ARCHITECT.

RACEWAYS

RACEWAYS SHALL BE HEAVY WALL RIGID GALVANIZED STEEL CONDUIT IN CONCRETE, UNDER THE LOWEST FLOOR SLABS OF BUILDINGS, IN WET/DAMP LOCATIONS, AND ALL EXPOSED AREAS. GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN DRY LOCATIONS, WALLS AND

CONCEALED CEILING SPACES. FLEXIBLE METALLIC CONDUIT SHALL BE USED FROM OUTLET BOX TO RECESSED LIGHT FIXTURES IN

SUSPENDED CEILINGS. PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR EXTERIOR UNDERGROUND APPLICATIONS 3/4" MINIMUM SIZE. ENCASE SUCH CONDUITS IN 3" OF CONCRETE IF BELOW PARKING OR DRIVE AREAS, MINIMUM COVER REQUIREMENTS PER NEC

RUN RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1" FROM PIPE COVER.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS. HORIZONTAL OR CROSS RUNS IN FULL HEIGHT PARTITIONS AND WALLS SHALL NOT BE PERMITTED.

RUN ALL CONDUIT CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. IF SPACE LIMITATION IS ENCOUNTERED IN ROUTING OF EMT CONDUITS, TYPE "MC" CABLE WITH GREEN INSULATED GROUNDING CONDUCTOR MAY BE USED WITH SPECIFIC APPROVAL FROM LOCAL AUTHORITIES,

OWNER'S PROJECT MANAGER AND BUILDING OWNER. CONNECT RACEWAY TO MOTOR TERMINAL BOXES WITH FLEXIBLE CONDUIT. MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

SURFACE MOUNT METAL RACEWAY IN REMODELED AREAS WHERE CONDUIT CANNOT BE CONCEALED. ROUTING AND LOCATIONS TO BE APPROVED BY AND COORDINATED WITH ARCHITECT BEFORE ROUGH IN. TELEPHONE. DATA AND TELEVISION CONDUITS SHALL BE 1" MINIMUM IN SIZE.

FIRE ALARM CONDUITS SHALL BE PAINTED WITH A RED ONE INCH BAND EVERY 25 FEET OF RUN, MINIMUM ONE (1) BAND PER STRAIGHT RUN. RACEWAY FITTINGS SHALL BE STEEL, THREADED OR COMPRESSION, LISTED FOR USE IN ENVIROMENT USED.

CONDUCTORS

CONDUCTORS SHALL BE COPPER, SIZES AS INDICATED ON DRAWINGS AND SHALL NOT BE LESS THAN NO. 12 AWG. ALL NO. 8 AWG WIRE AND LARGER SHALL BE STRANDED. ALL NO. 10 AWG WIRE AND SMALLER SHALL BE SOLID OR STRANDED. VOLTAGE RATING OF INSULATION SHALL BE 600 VOLTS. TYPE THHN/THWN-2 INSULATION SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING. THE AMPACITIES OF THHN WIRE SHALL BE BASED ON THE ALLOWABLE AMPACITIES OF THW WIRE.

CONDUCTORS SERVING EQUIPMENT ON ROOFS SHALL HAVE XHHW-2 INSULATION. RECESSED LUMINAIRES IN HUNG CEILING SHALL BE SUPPLIED WITH TYPE "AF" INSULATED WIRE IN FLEXIBLE METALLIC CONDUIT, LENGTHS NOT EXCEEDING 6 FEET FROM ADJACENT JUNCTION BOXES. COLOR CODING OF BRANCH CIRCUIT CABLES SHALL BE TO MATCH THE COLORS USED IN THE EXISTING BUILDING (CURRENT BUILDING STANDARD).

ALL GROUNDING CONDUCTORS SHALL BE GREEN COLORED. REQUEST IN WRITING PERMISSION FOR OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6') IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAYS OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH NYLON PULL STRINGS. RECEPTACLES AND EQUIPMENT 120 VOLT BRANCH CIRCUIT HOMERUN WIRING LESS THAN 100 FEET SHALL BE #12 AWG., AND GREATER THAN 100 FEET SHALL BE #10 AWG. OR LARGER TO ALLOW FOR VOLTAGE DROP.

LIGHTING 120 VOLT BRANCH CIRCUIT HOMERUN WIRING LESS THAN 40 FEET SHALL BE #12 AWG., 40 TO 100 FEET SHALL BE #10 AWG. AND GREATER THAN 100 FEET SHALL BE #8 AWG. OR LARGER TO ALLOW FOR VOLTAGE DROP.

ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING TROUGHS, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATION POINTS, ETC.

OUTLET, JUNCTION AND PULL BOXES ALL OUTLET BOXES SHALL BE CODE GAUGE, HOT DIPPED GALVANIZED STAMPED STEEL UNLESS OTHERWISE NOTED.

OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITIONS SHALL BE 4" SQUARE, 2-1/8" MINIMUM DEPTH UNLESS WALL CONSTRUCTION DICTATES OTHERWISE AND SHALL BE FITTED WITH SQUARE CORNERED DEVICE COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT ACCEPTABLE.

JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACE. WHERE NECESSARY, REROUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHERE EVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ROUGH-IN WALL AND SWITCH OUTLET BOXES IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, IN SIDE OPPOSITE HINGE, VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES, CONTROLLERS, RECEPTACLES, ETC.

ARE SUBJECT TO MODIFICATIONS. HEIGHTS OF OUTLETS ARE DEFINED FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS, AS PER ARCHITECTURAL DRAWINGS. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, MOLDING, BREAK IN WALL SURFACE, MASONRY GROUT LINES, OR IN VIOLATION OF CODE REQUIREMENTS.

OFFSET BACK-TO-BACK OUTLETS TO MAINTAIN INTEGRITY OF WALL ACOUSTICS AND FIRE RATING. THROUGH THE WALL TYPE, SHALL NOT BE PERMITTED. THE INSIDE COVER OF ALL RECEPTACLE OUTLET COVER PLATES, PULL BOXES, AND JUNCTION BOXES SHALL BE PERMANENTLY MARKED TO INDICATE THE PANEL AND CIRCUIT NUMBER.

GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT MAY APPLY. GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH FEEDER AND BRANCH CIRCUIT CONDUCTORS IN ALL CONDUITS WHETHER OR NOT INDICATED ON THE DRAWINGS. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 250, TABLE 250.122.

SUPPORTING DEVICES

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. DO NOT SUPPORT FROM CEILING HANGERS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL CONSTRUCTION. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAY. ALL ANCHORS, FASTENERS, CLAMPS, ETC. SHALL BE MADE OF STEEL AND SHALL NOT CONTAIN ANY LEAD, WOOD, PLASTIC, ETC.

SLEEVES

PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY NEC ARTICLE #300.21. FIRE STOPPING MATERIALS SHALL CONFORM TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST

AGENCIES PER ASTM E-814 OR UL 1479 FIRE TESTS IN A CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. THE (F) RATING SHALL BE A MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN THE FIRE RESISTANCE OF THE ASSEMBLY BEING PENETRATED.

CIRCUITING

NO MORE THAN EIGHT (8) GENERAL POWER RECEPTACLES SHALL BE CONNECTED TO A CIRCUIT, UNLESS OTHERWISE NOTED. NO MORE THAN FOUR (4) ISOLATED GROUND POWER RECEPTACLES SHALL BE CONNECTED TO A CIRCUIT, UNLESS OTHERWISE NOTED. LIGHTING AND CONVENIENCE RECEPTACLE CIRCUITS MAY BE GROUPED FOR HOMERUNS TO PANELBOARDS WITH A MAXIMUM OF THREE (3) CIRCUITS PER HOMERUN.

TELEPHONE/DATA SYSTEM

OUTLET BOXES FOR TELEPHONE AND DATA RECEPTACLES IN DRY WALL PARTITIONS SHALL BE 4-11/16" SQ x 2-1/8" MINIMUM DEPTH UNLESS WALL CONSTRUCTION DICTATES OTHERWISE AND SHALL BE FITTED WITH SQUARE CORNERED DEVICE COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT ACCEPTABLE. PROVIDE BLANK COVER PLATE.

CONDUIT SIZES SHALL BE AS DETAILED ON DRAWING STUBBED AND TERMINATED INTO ACCESSIBLE CEILING SPACE MINIMUM 6" AND TERMINATED WITH INSULATED THROAT CONNECTOR. PROVIDE PULL WIRE TO FACILITATE COMMUNICATION CABLING BY OTHERS.

REMOVE CONDUCTORS FROM EXISTING RACEWAYS TO BE RE-WIRED. CLEAN RACEWAY AS REQUIRED PRIOR TO RE-WIRING. ALARM, LIFE SAFETY AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. TEMPORARY SHUTDOWNS WHEN REQUIRED SHALL BE MADE ONLY WITH WRITTEN CONSENT OF OWNER AND SHALL OCCUR AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION AND AT NO ADDITIONAL CHARGE. ALL REQUIRED WORK FOR TIE-IN TO THE EXISTING EQUIPMENT SHALL BE ACCOMPLISHED AFTER HOURS. THE EXACT DAY AND TIME SHALL BE AS DIRECTED BY OWNER, AND AT NO ADDITIONAL CHARGE. TESTS AND GUARANTEES UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY LINE VOLTAGE POWER

PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE

MINIMUM INTERFACE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM

WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS

SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER.

CONNECT NEW WORK TO EXISTING IN NEAT AND APPROVED MANNER. RESTORE EXISTING

DISCONNECT. REMOVE. OR RELOCATE ELECTRICAL MATERIALS AND EQUIPMENT AS NOTED

CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC

WIRING WITH SAFETY SWITCHES AS SHOWN ON THE ELECTRICAL DRAWINGS.

CONNECTION TO EXISTING WORK

AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. DEMONSTRATE TO THE OWNER'S SATISFACTION, THE PROPER OPERATION OF EACH SYSTEM COMPRISING THIS CONTRACT BEFORE FINAL PAYMENT. GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED. EQUIPMENT AND MATERIAL SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR UNTIL FORMALLY ACCEPTED BY THE OWNER.

LOAD BALANCING

HVAC CONTROLS

DETERMINED BY BUILDING OWNER.

AND AS REQUIRED BY CHANGES IN CONSTRUCTION.

EQUIPMENT, UNLESS OTHERWISE NOTED.

ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD WITH AMMETER ON ALL PANELS AFFECTED UNDER THIS CONTRACT, SUBSEQUENT TO COMPLETION OF INSTALLATION, WITH ALL EQUIPMENT OPERATING SIMULTANEOUSLY. ELECTRICAL CONTRACTOR SHALL SUBMIT LOAD BALANCING REPORT TO THE ENGINEER FOR APPROVAL.

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY WITH AMMETER THAT NEW EQUIPMENT CAN BE ADDED TO EXISTING BRANCH CIRCUITS SUCH THAT CONTINUOUS LOADS AS DEFINED IN NEC, ARTICLE 100 DO NOT EXCEED 80% OF EXISTING OVERCURRENT DEVICE RATING PROTECTING CIRCUIT CONDUCTORS.

FIRE ALARM SYSTEM

OBTAIN APPROVAL ON SYSTEM LAYOUT AND OPERATION FROM THE LOCAL FIRE DEPARTMENT AND OTHER AUTHORITIES HAVING JURISDICTION, AS REQUIRED, PRIOR TO COMMENCING WORK. PREPARE AND SUBMIT PROPER DOCUMENTATION IN THE QUANTITY DESIRED BY THE AUTHORITIES, WITH ONE (1) COPY EACH TO OWNER AND ARCHITECT.

EXISTING FIRE ALARM EQUIPMENT (PULL STATIONS, SMOKE/HEAT DETECTORS, A/V APPLIANCES, FIREMAN PHONE JACKS, ETC.) SHALL REMAIN OR BE RELOCATED TO ACCOMMODATE NEW CONDITIONS. ALL WORK SHALL BE COORDINATED WITH BUILDING AUTHORITIES. FINAL CONNECTIONS TO BUILDING FIRE ALARM SYSTEM SHALL BE DONE BY BUILDING APPROVED CONTRACTOR. INSTALL NEW FIRE ALARM DEVICES AS INDICATED ON FLOOR PLANS AND RISER DIAGRAMS.

THE BASE BUILDING FIRE ALARM CONTROL PANEL SHALL BE UPGRADED TO HANDLE THE NEW FIRE ALARM DEVICES AS SHOWN ON THE PLANS. PROVIDE ADDITIONAL POWER SUPPLIES AND ASSOCIATED CONTROL PANELS TO ASSURE ADEQUATE POWER IS AVAILABLE FOR SYSTEM. PROVIDE A 20 AMPERE, 120 VOLT CIRCUIT FROM EMERGENCY POWER PANELS (IF APPLICABLE) TO NEW FIRE ALARM EQUIPMENT.

ALL WORK AFFECTING THE EXISTING BUILDING FIRE ALARM SYSTEM SHALL BE PERFORMED IN STRICT ACCORDANCE WITH BUILDING RULES AND REGULATIONS. ALL DEVICES SHALL MEET ADA CRITERIA AND SHALL BE REPLACED IF THEY DO NOT.

SUBMITTALS

MANUFACTURER'S PRODUCT DATA SHEETS AND SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT, GIVING FULL DESCRIPTION AND OTHER PERTINENT FACTS, SHALL BE SUBMITTED TO ARCHITECT/ENGINEER FOR APPROVAL AND SHALL BE SECURED BEFORE EQUIPMENT IS ORDERED, BUILT OR INSTALLED:

LUMINAIRES, LAMPS, BALLASTS. DISTRIBUTION EQUIPMENT, PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, AND RELATED POWER SYSTEM STUDY INCLUDING SHORT CIRCUIT, COORDINATION, ARC FLASH COMPONENTS. WIRING DEVICES, TOGGLE SWITCHES, RECEPTACLES, DIMMERS, COVER PLATES.

FIRE ALARM, NURSE CALL, SECURITY, INTERCOM, OTHER SPECIALTY SYSTEMS. ADDITIONAL EQUIPMENT AS REQUESTED BY OWNER, ARCHITECT, ENGINEER. CONFORM TO SUBMITTAL REQUIREMENTS OUTLINED IN THE ARCHITECTURAL

SPECIFICATIONS. WHERE CONTENTS OF SUBMITTAL LITERATURE INCLUDES DATA NOT PERTINENT TO THE SUBMITTAL, CLEARLY INDICATE WHICH PORTION OF CONTENT IS BEING SUBMITTED FOR REVIEW. WHERE ONLY ONE MAKE OF EQUIPMENT IS NAMED, IT SHALL BE PROVIDED AS SPECIFIED. SHOULD CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED, SUBMIT WRITTEN REQUEST FOR SUBSTITUTIONS TO ARCHITECT TEN (10) DAYS PRIOR TO BID OPENING. REQUEST SHALL BE AN ALTERNATIVE TO THE ORIGINAL BID

AND SHALL BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE AND TECHNICAL DATA FOR ALL ITEMS (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) INDICATING ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE. VERBAL REQUESTS OR APPROVALS FOR ANY SUBSTITUTIONS SHALL NOT BE BINDING ON THE OWNER, ARCHITECT, OR FNGINFFR

A MINIMUM OF ONE (1) SET OF RECORD DRAWINGS SHALL BE GIVEN TO THE ARCHITECT OR OWNER AT THE COMPLETION OF THE WORK. THESE DRAWINGS SHALL SHOW EXACT EQUIPMENT LOCATIONS, CONCEALED FEEDER ROUTINGS, AND SHALL INDICATE THE "AS-BUILT" CONDITION.

ADDITIONAL SPECIFICATION REQUIREMENTS ALL LABOR AND MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS AS WELL AS THE RELATED UNIVERSITY HOSPITAL, BANNER HOSPITAL, CLEVELAND CLINIC FOUNDATION FACILITIES DEPARTMENT MASTER SPECIFICATIONS AND GENERAL CONDITIONS.







ED001	DEMO CONNECTIONS TO REUSE CIRCUIT VIJ LOCATIONS. AREA AR REPOURED. CONTRAC AREA OF SLAB CUT AN INFRASTRUCTURE BE PROXIMITY TO NEW LI CONDITIONS. CONTRA CONDITION OF EXISTI RESUSE OR REQUIRES INADEQUATE FOR REU REPLACEMENT.
ED002	DISCONNECT EXISTIN EQUIPMENT. KEEP CO FUTURE USE.
ED003	DEMO EXISTING DOUE EXISTING CIRCUIT FO
ED004	DISCONNECT EXISTIN EQUIPMENT. DEMO CI NEAREST UPSTREAM
ED005	DISCONNECT EXISTIN EQUIPMENT. DEMO CI SOURCE.
ED006	DISCONNECT FROM C TO NEAREST UPSTRE

NS TO EXISTING LIFTS. DESIGN INTENT IS VIA HANDHOLES TO NEW LIFTS AT NEW AROUND LIFTS TO BE SAW CUT AND RACTOR TO REMOVE CIRCUIT WITHIN AND MAINTAIN EXISTING BEYOND. REINSTALL HANDHOLE IN V LIFT LOCATION SIMILAR TO EXISTING IRACTOR TO VERIFY WHETHER STING HANDHOLE IS SUITABLE FOR STING HANDHOLE IS SUITABLE FOR RES REPLACEMENT. IF CONDITION IS REUSE, DEMO HANDHOLE TO ALLOW FOR

ING CIRCUIT FEEDING EXISTING CONTINUITY OF EXISTING CIRCUIT FOR

UBLE DUPLEX. KEEP CONTINUITY OF FOR FUTURE WORK.

ING CIRCUIT FEEDING EXISTING CIRCUIT AND CONDUCTORS BACK TO A JUNCTION BOX.

ING CIRCUIT FEEDING EXISTING CIRCUIT AND CONDUCTORS BACK TO

I CIRCUIT. REMOVE CONDUCTORS BACK REAM JUNCTION BOX ED009 APPROXIMATE AREA OF WHERE AREA OF SLAB IS REMOVED.





ED1.2A



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ED003	DEMO EXISTING DOUBLE DUPLEX. KEEP CONTINUITY OF EXISTING CIRCUIT FOR FUTURE WORK.
ED005	DISCONNECT EXISTING CIRCUIT FEEDING EXISTING EQUIPMENT. DEMO CIRCUIT AND CONDUCTORS BACK TO SOURCE.
ED007	DEMO EXISTING DOUBLE DUPLEX. REMOVE CONDUIT BACK TO UPSTREAM JUNCTION BOX. REMOVE CONDUCTORS BACK TO SOURCE.
ED008	RECEPTACLE IS TO BE RELOCATED PER E2.1 DISCONNECT CIRCUIT MAINTAIN CONTINUITY FOR NEW LOCATION.
ED009	APPROXIMATE AREA OF WHERE AREA OF SLAB IS REMOVED.

4.5 AUTO7 - 29,31 3 #6 CU ,1 #10 CU G in 1"C AUTO5 - 2

AUTO7 - 25,27 3 #6 CU ,1 #10 CU G in 1"C

AUTO7 - 21,23 3 #6 CU ,1 #10 CU G in 1"C

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BLE DUPLEX. KEEP CONTINUITY OF R FUTURE WORK.
G CIRCUIT FEEDING EXISTING RCUIT AND CONDUCTORS BACK TO
BLE DUPLEX. REMOVE CONDUIT BACK ION BOX. REMOVE CONDUCTORS BAC

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Ř C R MECHANICAL ENGINEERING, L.L.C. PIMA COMMUNITY TRANSPORTATION CENTER ADDITIONA

CONSTRUCTION DOCUMENTS -100% 03/29/2024 REVISIONS ASI001 11/22/19 PR 02 01/24/2020 PR 11 09/22/2022



ED1.2B



GENERAL POWER NOTES (TYPICAL ALL POWER SHEETS)

- 1. FOR AUTO AND MECHANICAL POWER REQUIREMENT. REFER TO SHEET E7.2 FOR MORE INFORMATION.
- FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.

3. PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY LOAD BEING SERVED.

4. REFER TO STRUCTURAL DRAWINGS FOR ALL SLAB CUT LOCATIONS.

SHEET NOTES

E344	IF EXISTING HAND HOLE IS IN GREAT CONDITION, REUSE AND REINSTALL IN NEW CONCRETE. IF NOT PROVIDE NEW HAND HOLE. EXTEND EXISTING CIRCUIT
E390	CURRENT UNDERSTANDING IS THAT UNIT IS DUAL RATED FOR 208/230V. CONTRACTOR TO VERIFY UNIT VOLTAGE WILL ACCEPT 208V. IF NOT, PROVIDE BUCK BOOST TRANSFORMER AS REQUIRED.
E411	REROUTE EXISTING CIRCUIT TO UNDERGROUND IN SAME TRENCH AS AIR TO THE DISCONNECT FEEDING LIFT. REFER TO STRUCTURAL FOR SLAB CUT LOCATION.
E412	EXTEND EXISTING CIRCUIT TO NEW RECEPTACLE MOUNTED IN NEW EQUIPMENT.
E413	PROVIDE RECEPTACLE AT A MINIMUM OF 6" FROM NEW RECEPTACLE.
E414	PROVIDE NEW RECEPTACLE MOUNTED NEXT TO EXISTING RECEPTACLE.
E415	PROVIDE NEW RECEPTACLE FOR THE DYNO CONTROLLER. COORDINATE WITH OWNER FOR EXACT NEMA CONFIGURATION OF THE DYNAMO PLUG PRIOR TO

2. REVIEW MECHANICAL SUBMITTALS AND VERIFY ANY NEUTRAL WIRES REQUIRED ON 1Ø OR 3Ø MECHANICAL UNITS

WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO









E2.1A1





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C2.



REFER TO STRUCTURAL DRAWINGS FOR ALL SLAB CUT LOCATIONS.

	SHEET NOTES
E413	PROVIDE RECEPTACLE AT A MINIMUM OF 6" FRO RECEPTACLE.
E416	PROVIDE RECEPTACLE FOR NEW TIRE CHANGE COORDINATE WITH RESPECTIVE VENDOR ON PO REQUIREMENTS AND PROVIDE AS NEEDED
E417	PROVIDE RECEPTACLE FOR NEW TIRE BALANCE COORDINATE WITH RESPECTIVE VENDORS ON REQUIREMENTS AND PROVIDE AS NEEDED.
E418	PROVIDE 208V/1PH RECEPTACLE TO FEED NEW BENCH. COORDINATE WITH SYSTEM MANUFACT CORRECT POWER REQUIREMENTS PRIOR TO R
E419	EXTEND EXISTING CIRCUIT TO NEW LOCATION.
E420	PROVIDE DEDICATED CIRCUIT TO EQUIPMENT.

NOTES

AT A MINIMUM OF 6" FROM NEW

FOR NEW TIRE CHANGERS. SPECTIVE VENDOR ON POWER ROVIDE AS NEEDED

FOR NEW TIRE BALANCERS. SPECTIVE VENDORS ON POWER ROVIDE AS NEEDED.

EPTACLE TO FEED NEW SNAP ON VITH SYSTEM MANUFACTURER FOR UIREMENTS PRIOR TO ROUGH-IN.





	EL-AUIO EQUIPIVIENI SCHEDULE ADDITION- PIMACC																						
	CIRCUIT			DUADE	DISC	FUSED DISC	COMB			RECEPTACL	MOTOR RATED	COMB STARTER	DISC SW	DISC SW	DISC SW	PHASE & NEUTRAL	PHASE & NEUTRAL	PHASE & NEUTRAL	GND	GND AWG-T	CONDUIT	CONDUIT SIZE-TEX	
EL	NUMBER	POWER	VOLTAGE	PHASE	500	500	STARTER	VED	JB	E	SWIICH	NEMA SIZE	AMP	POLE	FUSE	SEI	NO.	AWG-TEXT	NO.	EXI	SEI	I	SPECIFIC NOTES
04	4,6	6240 VA	208 V	1	No	No	No	No	Yes	No	No	0	30 A	2	25 A	1	2	#8	1	#10	1	3/4"	DEDICATED DOUBLE POLE BREAKER, DISCONNECT
)4	8,10	6240 VA	208 V	1	No	No	No	No	Yes	No	No	0	30 A	2	25 A	1	2	#8	1	#10	1	3/4"	DEDICATED DOUBLE POLE BREAKER, DISCONNECT
22	38,40,42	43212 VA	480 V	3	No	Yes	No	No	No	No	No	0	110 A	3	110 A	1	3	#4	1	#8	1	1"	
23	30,32,34	14440 VA	208 V	3	No	Yes	No	No	No	No	No	0	110 A	3	110 A	1	3	#6	1	#10	1	3/4"	
)2	10	1000 VA	120 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
)4	11,13	5408 VA	208 V	1	No	Yes	No	No	No	No	No	0	110 A	2	110 A	1	2	#8	1	#10	1	3/4"	
)4	15,17	5408 VA	208 V	1	No	Yes	No	No	No	No	No	0	110 A	2	110 A	1	2	#8	1	#10	1	3/4"	
06	28,30	3000 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
06	32,34	3000 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
06	36,38	2080 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
06	40,42	2080 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
:1	30	1440 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
D1	1	1800 VA	120 V	1	No	No	No	No	Yes	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
)5	14	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	3	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
05	7	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	16	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	18	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	9	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	22	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	20	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	17	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)5	24	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	40	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)1	25	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	42	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	27	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	31	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
01	44	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)1	48	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	46	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
)2	6	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	37	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	MOUNT AT 24" AFF
D1	41	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
06	1	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
D1	43	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
06	3	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
D1	49	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
:1	36	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
1	42	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
:1	41	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
)3	4,6	3536 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#10	1	3/4"	NEMA L6-20R
)3	8,10	3536 VA	208 V	1	No	No	No	No	No	No	No	0	0 A	2	0 A	1	2	#10	1	#10	1	3/4"	NEMA L6-20R
)3	12	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
)3	14	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	
)3	18	1800 VA	120 V	1	No	No	No	No	No	Yes	No	0	0 A	2	0 A	1	2	#10	1	#12	1	3/4"	

E601 EXISTING PANEL WITH MODIFIED CIRCUITS OR LOADS.



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	SW		: SES		v	OLTAGE:	480Y / 2	77			
		BUS RATING	G 1600 A			PHASES:	3				
		MAIN BREAKER	R 1600A			WIRES: SCCR:	4 65000				
кт		CII	RCUIT DESC	CRIPTION		BKR TRIP	Р	BKR TYPE	LOAD TYPE	LOAD (kVA)	NOTES
T	Κ-1					225 A	3		0	96	
: T	<-2					225 A	3		0	107	
6 T	K-3					125 A	3		0	64	
T	<-4					175 A	3		0	80	
5 T	<-5					125 A	3		0	41	
<u>;</u> Η	VAC1					400 A	3		M	260	
H						400 A	3		M	287	
3 A						100 A	3		0	6	
						100 A	3		IVI M	44	
0 Е 1 Т		ER (ELEV-I)				100 A	3		M	45	
2 9						125 A	1		0	40	
2 0						120 A	1			0	
4											
5											
16											
7											
8											
9											
0											
								TOT	AL LOAD:	1,076 kVA	
								1017	AL AMPS:	1294 A	
LOAD	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D	ESTIMATED DEMAND (VA)	DEMANI	D FACTO	R NOTES			BKR TYPE	PANEL TOTALS
	LIGHTING	41949 VA	125.00%	52437 VA	CONTINUOUS LOAD @ 125%	0				G = GFCI (5mA)	
	RECEPTACLES	205602 VA	52.43%	107801 VA	FIRST 10KVA @ 100%, REMA	AINDER @) 50%			GP = GFCI (30mA)	CONNECTED LOAD: 1,076 kVA
	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN EC	QUIPMEN	T, NEC A	RT. 220		ST = SHUNT TRIP	ESTIMATED DEMAND: 989 kVA
	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART	. 430				LO = LOCK OUT	CONNECTED CURRENT: 1294 A
	MOTOR	577184 VA	100.00%	577184 VA							EMD CURRENT: 1189 A
	COOLING	0 VA	0.00%	0 VA							
		0 VA	0.00%	U VA							
		010501 114		1/1/581 V/A							
	OTHER	242581 VA	100.00%	242301 VA							

	*Evicting last	io hos	of 10/14/0010		ingo
**Per pe	ak damand fro	om meter	#157598215 s	supplied by TEP is	ings. s 275.75kW.
Existing load:					
		kVA	A		
	**SES		430.86	518.48	
	*HVAC3		26	72.02	
	*AUTO2		62	171.75	
	*AUTO3		56	155.12	
	*AUTO6		23	63.71	
	*MISC1		24	66.48	
	*AUTO1		24	66.48	
	*AUTO4		66	182.83	
	*HVAC2		243	292.42	
	*AUTO5		13	36.01	
Domo Locati					
Jenio Load:			C	F 51	
	AUTO		16.09	5.54	
			10.20	45.10	
			0.52	23.05	
	AUTOS		4.5	12.47	
	AUOT3		10	49.80 27.70	
Added Load:					
	HVAC3		17	47.09	
	AUTO2		0	0.00	
	AUTO3		6	16.62	
	AUTO6		18	49.86	
	MISC1		11.6	32.13	
	AUTO1		27.28	76.03	
	HVAC2		44	52.95	
	AUTO5		10.5	29.09	
Total Load					
	HVAC3		41	113.57	
	AUTO2		44	121.88	
	AUTO3		52	144.04	
	AUTO6		39	108.03	
	MISC1		35.6	98.61	
	AUTO1		35	97.41	
	HVAC2		287	345.37	
	AUTO5		19	52.63	
	SES		849.08	1,021.76	
	NET LOA	LD HAS II	NCREASED B 1.600A BOAF	y 503.27 Amps (Rd.	ON A

						-							-			
	PA	NEL: HVAC2														
	LOCA BUS RA MAIN BREA				VOLTS: PHASES: WIRES: SCCR:	480Y / 27 3 4 35000	7			LL	IN1 JG AC	Moun Fed Fi Tegral Cessoi	TING: SURFACE Rom: Ses SPD: No Ries: None			
скт	CIRCUIT DESCRIPTION	BKR TRIP	Р	BKR TYPE	LOAD TYPE	PHASE	A (VA)	PHASE	B (VA)	PHASE	C (VA)	LOAD TYPE	BKR TYPE	Ρ	BKR TRIP	CIRC
1	DOAS-1	100	3		М	24.930	3.324					М		3	15	AC-2.3 - ROOF - A
3							-,	24.930	3.324							
5	-							,	-,	24.930	3.324					
7	DOAS-2	100	3		М	24.930	3.324			,	- , -	М		3	15	AC-2.4 - ROOF - A
9	-						,	24.930	3.324							
11								,	,	24,930	3.324					
13	SPACE ONLY		1				3,324			,	,	М		3	15	AC-2.5 - ROOF - A
15	SPACE ONLY		1						3,324							
17	SPACE ONLY		1								3,324					
19	SPACE ONLY		1				0					Spare		1	20	SPARE
21	SPACE ONLY		1						0			Spare		1	20	SPARE
23	SPACE ONLY		1								0	Spare		1	20	SPARE
25	SPACE ONLY		1				0					Spare		1	20	SPARE
27	SPACE ONLY		1						0			Spare		1	20	SPARE
29	SPACE ONLY		1								0	Spare		1	20	SPARE
31	EC-6 - ROOF AREA B	15	3		М	21,329	0					Spare		1	20	SPARE
33								21,329	0			Spare		1	20	SPARE
35										21,329	0	Spare		1	20	SPARE
37	SPACE ONLY		1				14,404					0		3	80	EQ124A DYNOME
39	SPACE ONLY		1						14,404							
41	SPACE ONLY		1								14,404					
		AL LOAD: Al Amps	9556 345	5 VA 5 A	9556 34	5 VA 5 A	9556 34	5 VA 5 A								

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PA
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACLES	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECT
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED C
М	MOTOR	243483 VA	100.00%	243483 VA			EMD C
С	COOLING	0 VA	0.00%	0 VA			
Н	HEATING	0 VA	0.00%	0 VA			
0	OTHER	43212 VA	100.00%	43212 VA			
Spare	SPARE	0 VA	0.00%	0 VA			

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| скт | CIRCUIT D | ESCRIPTION
 | BKR | P BKR

 | LOAD | PHASE | A (VA) | PHASE | B (VA) | PHASE | E C (VA) | LOAD
TYPE | BKR | Р
 | BKR | CIRCUIT DESCRIPTION | CKI | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 15 | AC-2.3 - ROOF - AREA A | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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-6 - ROOF AREA B |
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 | | TINUOUS L | LOAD @ | | 2 @ 50% | | | G = GFCI | (5mA) | | | | | | | | | | | | | | | | | | | | | | |
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 | NON | I-DWELLING | g Kitche | EN LOADS, | NEC ART. | 220 | | ST = SHU | NT TRIP | | | | | | | | | | | | | | | | | | | | | | |
 | | ESTIMATED DEMAND: 287 kVA | | | | |
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| LM | LARGEST MOTOR | 0 VA
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 | LAR | GEST MOT | OR, NEC | ART. 430 | | | | LO = LOC | K OUT | | | | | | | | | | | | | | | | | | | | | | |
 | | CONNECTED CURRENT: 345 A | | | | |
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CIRCUIT DESCRIPTION
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ROM: TX-5
SPD: NO
RIES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
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35 | ING: SURFACE
ROM: TX-5
SPD: NO
RIES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-3 - ROOF A

CU-4 - ROOF A

CU-1 - ROOF A | CK1
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60 | ING: SURFACE
ROM: TX-5
SPD: NO
RIES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

CU-4 - ROOF A

CU-1 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX | CKT
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 | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX
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</td><td>ING: SURFACE
ROM: TX-5
SPD: NO
RIES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

CU-4 - ROOF A

CU-1 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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-2, FC-4 IDF 102, EL
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2,496
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PHASES:
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2,496
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TYPE
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Spare
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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
SPACE ONLY
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SPACE ONLY
CU-3 - ROOF A

CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

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BUS RATING: 225
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SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-4 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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-3, FC-4 IDF 102, EL
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-2.1 - ROOF - AREA
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PANEL: HV
LOCATION:
BUS RATING: 225
MAIN BREAKER: 225
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SCCR:
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</td><td>ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
SPACE ONLY
SPACE ONLY
SPACE ONLY
SPACE ONLY
CU-3 - ROOF A

CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

SPARE
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A3212 VA
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PANEL: HV
LOCATION:
BUS RATING: 225
MAIN BREAKER: 225
ESCRIPTION
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CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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ROM: TX-5
SPD: NO
RIES:
NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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SPACE ONLY
CU-3 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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OTHER
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OF RECEPTACLES
-1, FC-2 ELECTRICA
-3, FC-4 IDF 102, EL
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-2.3 - ROOF - AREA
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14961
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110KVA @
FDWELLING
GEST MOT</td><td>180

2,496
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G KITCHE
OR, NEC</td><td>VOLTS:
PHASES:
WIRES:
SCCR:
416
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1415:
121
ND FACTC
125%
REMAINDEF
EN LOADS,
ART. 430</td><td>208Y / 12
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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
SPACE ONLY
SPACE ONLY
SPACE ONLY
CU-3 -
ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

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15 SP
17 SP
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21 SP
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29 SP
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33 SP
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OTHER
SPARE
OF RECEPTACLES
-1, FC-2 ELECTRICA
-3, FC-4 IDF 102, EL
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720
416
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14961
128
1100US I
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I-DWELLING
GEST MOT</td><td>180

2,496
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1 VA
3 A
DEMA
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1 00%, F
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OR, NEC</td><td>VOLTS:
PHASES:
WIRES:
SCCR:
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756
1415:
121
ND FACTC
125%
REMAINDEF
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CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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 | ING: SURFACE
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SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-4 - ROOF A

CU-2 - ROOF A

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EQ124B - DYNNO CONTROL BOX

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 | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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LOCATION:
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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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RIES: NONE
CIRCUIT DESCRIPTION
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RECEPTACLE ELEVATOR
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SPD: NO
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CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

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SPD: NO
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RECEPTACLE ELEVATOR
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CU-3 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
SPACE ONLY
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SPACE ONLY
CU-3 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

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ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-3 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

CU-2 - ROOF A

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 | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-4 - ROOF A

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EQ124B - DYNNO CONTROL
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MAIN BREAKER: 225
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 | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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- | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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SPACE ONLY
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SPACE ONLY
CU-3 - ROOF A

CU-4 - ROOF A

CU-4 - ROOF A

CU-2 - ROOF A

EQ124B - DYNNO CONTROL BOX

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EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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ROM: TX-5
SPD: NO
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CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
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 | ING: SURFACE
ROM: TX-5
SPD: NO
RES: NONE
CIRCUIT DESCRIPTION
EMCS PANEL - ELETRICAL 108
RECEPTACLE ELEVATOR
SPACE ONLY
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CU-3 - ROOF A

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		PANEL: MI	SC1				-			-											
		LOCATION: BUS RATING: 225 MAIN BREAKER: 150	5 A) A						VOLTS: PHASES: WIRES: SCCR:	: 208Y / 12 : 3 : 4 : 10,000	0		MOUNTING: SURFACE FED FROM: TX-4 INTEGRAL SPD: NO LUG ACCESSORIES: NONE								
скт	CIRCUIT DE	SCRIPTION	bkr Trip	Р	BKR LO TYPE T	OAD YPE	PHASE	A (VA)	PHASE	B (VA)	PHAS	E C (VA)	LOAD TYPE	BKR TYPE P	BKR TRIP	CIRCUIT DESCRIPTION	скт				
1	GEN. RECEPTACLE - TO	OOL CRIB 110/109/108	20	1		R	720	540					R	1	20	GEN. RECEPTACLE - TOOL CRIB 110	2				
3	TAMPER SWITCH - FIRE	E RISER 112	20	1		0			500	1,200			R	1	20	4PLEX RECPT IDF 102 RACK #1	4				
5	GEN. RECEPT - CORR		20	1		R	1 100				1,080	1,200	R	1	20	4PLEX RECPT IDF 102 RACK #2	6				
/	HAND DRYER - WOMEN	IS RR 106	20	1		0	1,400	/20	1 400	E40			R	1	20		8				
9	HAND DRYER - MENS R DRINKING EQUTAIN		20	1					1,400	540	450	360	R	1	20		10				
13	DRINKING FOUTAIN - C	ORRIDOR 104	20	1		R	450	540			430	300	R	1	20	RECEPTACIE - ELECTRICAL 108	12				
15	GEN. RECEPTACLE - CI	LASSROOM 103	20	1		R	-100	010	1.080	360			R	1	20	VIDEO DISPALY 2 - SCHD/CHECK-IN 100A	14				
17	SPARE		20	1	S	pare			.,		0	360	R	1	20	VIDEO DISPALY 3 - SCHD/CHECK-IN 100A	18				
19	SPARE		20	1	S	pare	0	360					R	1	20	VIDEO DISPALY 1- SCHD/CHECK-IN 100A	20				
21	SCHEDULING/CHECK-IN	N 100A,109	20	1		R			360	360			R	1	20	VIDEO DISPALY 2 - SCHD/CHECK-IN 100A	22				
23	ACCESS CONTROL PAN	NEL - ELEV. MAIN. 101	20	1		R					180	360	R	1	20	4PLEX RECPT DESK - SCHD/CHECK-IN 100A.	24				
25	AUTO DOOR ACTUATO	R - LOBBY/GALLERY	20	1		0	1,140	1,800					0	1	20	CAMERA - CLASSROOM 103	26				
27	SPARE		20	1	S	pare			0	1,200	400	4.440	R	1	20	4PLEX RECPT IDF 102 RACK #3	28				
29			20	1			260	100			180	1,440	R	1	20		30				
31			20	1			300	100	1 000	0			Snaro	1	20	SDARE	3/				
35	FURNITURE #1 - CLASS	ROOM 103	20	1		R			1,000	0	1 080	1.800	R	1	20	FQ138C1 - SNAP ON BENCH	36				
37	FURNITURE #2 - CLASS	ROOM 103	20	1		R	1.080	0			1,000	1,000	Spare	1	20	SPARE	38				
39	FURNITURE #3 - CLASS	ROOM 103	20	1		R	,	-	1,080	0			Spare	1	20	SPARE	40				
41	EQ138D1 - SNAP ON BE	ENCH	20	1		R					1,800	1,800	R	1	20	EQ138D - SNAP ON BENCH	42				
43	HAND DRYER - MENS R	RR 105	20	1		0	1,400	0					Spare	1	20	SPARE	44				
45	HAND DRYER - WOMEN	IS RR 106	20	1		0			1,400	0	400	-	Spare	1	20	SPARE	46				
4/	VIDEO DISPLAY 1 - CLA	SSROOM 103 (NORTH) 20	1		<u>к</u>	260	0			180	0	Spare	1	20	SPARE	48				
49 51	VIDEO DISPLATZ - CLA	ASSROOM 103 (NORTH	1) <u>20</u> 1) 20	1		R R	300	0	360				Spare	1	20		52				
53	VIDEO DISPLAY 4 - CLA	ASSROOM 103 (SOUTH	1) <u>20</u> 1) 20	1		R			000		360			1		SPACE ONLY	54				
55	VIDEO DISPLAY 5 - CLA	ASSROOM 103 (SOUTH	1) 20	1		R	360							1		SPACE ONLY	56				
57	VIDEO DISPLAY 6 - CLA	ASSROOM 103 (SOUTH	í) 20	1		R			360					1		SPACE ONLY	58				
59	VIDEO DISPALY 1 - SCH	ID/CHECK-IN 100A	20	1		R					360			1		SPACE ONLY	60				
					TOTAL L TOTAL A	OAD:	<u>11410</u> 95	O VA A	<u> 1120</u> 93	0 VA 5 A	1299	90 VA 19 A									
TYP	E DESCRIPTION	(VA)	DEMAN D	DE	MAND (VA)			DEMA	AND FACTO	OR NOTES			В	KR TYPE		PANEL TOTALS					
L	LIGHTING	0 VA	0.00%		0 VA	CON	TINUOUS	LOAD @	125%				G = GFCI ((5mA)							
R	RECEPTACLES	26560 VA	68.83%		18280 VA	FIRS	T 10KVA @) 100%, F	REMAINDE	R @ 50%			GP = GFP	(30mA)		CONNECTED LOAD: 36 kVA					
K	KITCHEN	0 VA	0.00%		0 VA	NON	-DWELLIN	G KITCHE	EN LOADS,	NEC ART.	220		ST = SHUN	NT TRIP		ESTIMATED DEMAND: 27 kVA					
LM	LARGEST MOTOR	0 VA	0.00%		0 VA	LAR	GEST MOT	OR, NEC	ART. 430				LO = LOCK	(OUT		CONNECTED CURRENT: 99 A					
М	MOTOR	0 VA	0.00%		0 VA											EMD CURRENT: 76 A					
С	COOLING	0 VA	0.00%		0 VA	1															
Н	HEATING	0 VA	0.00%		0 VA																
0	OTHER	8660 VA	100.00%		8660 VA	1															
Spar	e SPARE	0 VA	0.00%		0 VA																
NEW	OR REVISED LOADS S	Shown in Bold.				·															



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	Ν	PANEL: A LOCATION: BUS RATING: 23 MAIN BREAKER: 20	AUTO1 225 A 200 A - CONF	IRIMED		F	VOLTS: 208Y / 1 PHASES: 3 WIRES: 4 SCCR: 10,000	120			LUG	Moun Fed I Integrai Accesso	INTING: SU FROM: TX AL SPD: NO SORIES: NO	JRFACE (-1) DNE				PANEL: A LOCATION: BUS RATING: 22 MAIN BREAKER: 20	JTO2 5 A 0 A				VOLTS: 208Y / PHASES: 3 WIRES: 4 SCCR: 10,000	120		Mounting: Fed From: Integral SPD: Lug Accessories:			JRFACE (-1) ONE
скт	CIRCUIT DESC	CRIPTION	BKR TRIP	P BKR L TYPE T	OAD YPE PHASE	E A (VA)	PHASE B (VA)	PHASE	E C (VA)	LOAD E TYPE T	SKR YPE P	BKR TRIP	R P	CIRCUIT DESCRIPTION	скт	скт	CIRCUIT DI	ESCRIPTION	BKR TRIP	P BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE (C (VA)	LOAD BKR TYPE TYPE F	, BKR TRIP	R P	CIRCL
1 EQ	136 RECEPT	FI - LIGHT DIESEI	20	1	R 1,800	1,040	800 1.040			R 		2 20	RECEP	T. 208V - AUTO LAB 109 (NORTH	EAST) 2	1 LIFT - 3	IN GROUND (EQ	2101-1) - AUTO LAB 109	30	2	0	2,060 0	2.060 0			Spare 2	20	SPARE	
5 QL	JAD RECEPTACLE BEN	CH - LIGHT DIESEL	20	1	R			1,000	1,040	R	2	2 20	RECEP	TACLE 208V - OUTDOOR BAY 128	8 6	5 LIFT -	IN GROUND (EQ	2101-2) - AUTO LAB 109	30	2	0			2,060	1,800	R 1	20	EQ137J	J1 SNAP O
7 RE	CEPTACLE POWER RE	EEL -ALIGNMENT LI	IFT 20	1	O 800	1,040		,	,						8	7						2,060 0				Spare	20	SPARE	
9 QL	JAD RECEPTACLE BEN	CH - LIGHT DIESEL	_ 20	1	R		1,000 0			R	2	2 20	RECEP	T. 208V - AUTO LAB 109 (NORTH '	WEST) 10	9 LIFT -	IN GROUND (EQ	Q101-3) - AUTO LAB 109	30	2	0		2,060 1,000			R	20	EQ1240	COMPUT
11 QL	JAD RECEPTACLE BEN	CH - LIGHT DIESEL	_ 20	1	R			1,000	0						12	11								2,060	0	Spare	20	SPARE	<u>. </u>
13 QL	JAD RECEPTACLE BEN	CH - LIGHT DIESEL	_ 20	1	R 1,000	360				R	1	1 20	GEN. R	ECEPTACLE - AUTO LAB 109 (NO	NRTH 14	13 LIFT -	IN GROUND (EQ	2101-4) - AUTO LAB 109	30	2	0	2,060 0				Spare	20	SPARE	<u>.</u>
15 GE	N. RECEPTACLE - AUT	O LAB 109	20	1	R		360 360	000	000	R	1	1 20	GEN. R	ECEPTACLE - AUTO LAB 109 (NO	RTH 16	15							2,060 0	0.000	0	Spare	20	SPARE	
1/ GE	N. RECEPTACLE - AUT	O LAB 109	20	1	R 200	1.040		360	360	R	1	1 20	GEN. R	ECEPTACLE - AUTO LAB 109 (NO	18 NFOT	17 2-POS	T LIFT (EQ102-1)) - AUTO LAB 109	30	2	0	0.000		2,060	0	Spare	20	SPARE	
19 GE			20	1	R 360	1,040	1 000 1 040			R	2	2 20	RECEP	1. 208V - AUTO LAB 109 (NORTH	VVEST) 20	19						2,060 0	2,060 0			Spare	20	SPARE	
21 QU			9 20		R		1,000 1,040	400	360	 D		 1 20	CEN D		22	21 2-PUS	1 LIFT (EQ102-2)) - AUTU LAB 109	30	2	0		2,000 0	2.060	0	Spare	20	SPARE	
25 FC	137E SNAD ON BENCH	<u> </u>	20	1	P 1800	1 0/0		400	300	P	2	2 20			24 WEST) 26	25 2-POS	T LIFT (E0102-3)			2		2 060 0		2,000	0	Spare 2	20	SPARE	
27 EQ	137G SNAP ON BENCH	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	20	1	R 1,000	1,040	1 800 1 040								28	27	$\frac{1}{2} \ln \left(\log \left(02^{-3} \right) \right)$) - AUTO LAD 103				2,000 0	2 060					SPACE	
29 RF	CEPTACLE POWER RE	FL - AUTO LAB 109	9 20		0		1,000 1,040	800	540	R	1	1 20	RECEP	TACLE OUTDOOR BAY - 31 32 33	30	29 LIFT -	IN GROUND (FO)104-1) - AUTO I AB 109	30	2	0		2,000	2 060				SPACE	
31 FQ	137H SNAP ON BENCH	- <u></u>	20	1	R 1.800	900		000	010	R	1	1 20	RECEP	TACLE OUTDOOR BAY - 28.30	32	31						2 060		2,000				SPACE	
33 RE	CEPTACLE POWER RE	EEL - AUTO LAB 109	9 20	1	0		800 800			0	1	1 20	RECEP	TACLE POWER REEL - EV BAY. C	DEM 34	33 LIFT -	IN GROUND (EQ	0104-2) - AUTO LAB 109	30	2	0	2,000	2.060					SPACE	
35 GE	N. RECEPTACLES - AU	JTO LAB 109	20	1	R			540	1,040	R	2	2 20	RECEP	T. 208V - AUTO LAB 109 (NORTH	WEST) 36	35								2,060				SPACE	ONLY
37 EQ	137J SNAP ON BENCH	1	20	1	R 1,800	1,040			,						38	37 LIFT -	IN GROUND (EQ	2104-3) - AUTO LAB 109	30	2	0	2,060		,				SPACE	ONLY
39 RE	CEPTACLE POWER RE	EL - AUTO LAB 109	9 20	1	0		800 1,800			R	1	1 20	EQ137F	1 SNAP ON BENCH	40	39	, v	/					2,060					SPACE	ONLY
41 EQ	138A SNAP ON BENCH	4	20	1	R			1,800	1,800	R	1	1 20	EQ1370	G1 SNAP ON BENCH	42	41												SPACE	ONLY
43 EQ 45 PC 47 QL	138B SNAP ON BENCH WER REEL - AUTO LAE JAD RECEPTACI E BENI	1 3 109 ICH - AUTO I AB 109	20 20 9 20	1 1 1	R 1,800 O R	1,800	800 1,800	1.000	1.800	R R R	1	1 20 1 20 1 20	EQ137H EQ137H EQ137I	11 SNAP ON BENCH 1 SNAP ON BENCH SNAP ON BENCH	44 46 48					ΤΟΤΑ ΤΟΤΑ	L LOAD:	14420 VA 121 A	15420 VA 129 A	14160 118	A A				
49 EQ	138C SNAP ON BENCH	1	20	1	R 1.800			.,	.,		1	1	SPACE	ONLY	50														
51 QL 53 RE	IAD RECEPTACLE BEN CEPTACLE POWER RE	ich - Auto Lab 109 Eel - Auto Lab 109	9 20 9 20		R O	00.1/4	1,000	800			1	1 1	SPACE SPACE	ONLY ONLY	52 54	LOAD TYPE	LOAD Description	CONNECTED LOAD (VA)	DEMAN D	ESTIMATED DEMAND (VA	.)	DEMA	AND FACTOR NOTE	ES		BKR TYPE			P/
						20 VA	10240 VA	1464	+U VA							L LI	GHTING	0 VA	0.00%	0 VA	CONT	INUOUS LOAD @	125%		(G = GFCI (5mA)			
				IUIAL		IJΠ	137 A	12	.2 17							R R	CEPTACLES	2800 \/A	100 00%	2800 \/A	FIRST	10KVA @ 100% F		r 0	(GP = GFP (30mA)			CONNECT
																K KI		Λ./Δ	0.00%	0.1/4				ст. 220				E	STIMATED
																			0.00%	0.1/4			ART 120						
						DEMAN	ID FACTOR NOTE	S		BKR	R TYPE			PANEL TOTALS				0 VA	0.00%	0 VA	LANG	LOT MOTOR, NEC	AITI. 450		L			CON	
							200			0 050: /=	•							UVA	0.00%	0 VA									END
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS	S LOAD @ 12	25%			G = GFCI (5m	nA)					C CC	DOLING	0 VA	0.00%	0 VA									
R	RECEPTACLES	45300 VA	61.04%	27650 VA	FIRST 10KVA	@ 100%, RE	MAINDER @ 50%)		GP = GFP (30	0mA)			CONNECTED LOAD: 52 kVA		H HE	EATING	0 VA	0.00%	0 VA									
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLIN	NG KITCHEN	LOADS, NEC AR	T. 220		ST = SHUNT	TRIP		E	STIMATED DEMAND: 34 kVA		0 0	THER	41200 VA	100.00%	41200 VA									
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MO	TOR, NEC A	RT. 430			LO = LOCK C	DUT		CON	INECTED CURRENT: 145 A		Spare SF	PARE	0 VA	0.00%	0 VA									
М	MOTOR	0 VA	0.00%	0 VA										EMD CURRENT: 96 A		• · · · · ·		ı			1				I		I		
C	COOLING	0 VA	0.00%	0 V/A																									
Ц		0.1/0	0.00%	0.1/0																									
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		0000 VA	100.00%	0000 VA																									
Spare	SPARE	0 VA	0.00%	0 VA																									

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		PANEL: A	AUTO3											PANEL: A	AUTO4												
		LOCATION: BUS RATING: 2 MAIN BREAKER: 2	25 A 100 A				VOLTS: 208Y / 1 PHASES: 3 WIRES: 4 SCCR: 10,000	120	LL	MOUN FED F INTEGRAL IG ACCESSC	ITING: SURFACE FROM: TX-2 . SPD: NO DRIES: NONE			LOCATION: BUS RATING: 2 MAIN BREAKER: 2	225 A 200 A				VOLTS: 2 PHASES: 2 WIRES: 4 SCCR: 7	208Y / 120 3 4 10,000)			IN LUG A	MOUNTI FED FR ITEGRAL S ICCESSOR	NG: SURFACE OM: TX-2 IPD: NO IES: NONE	
скт	CIRCUIT DE	SCRIPTION	BKR TRIP	P BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD BKR TYPE TYPE	P BKR TRIP	CIRCUIT DESCRIPTION	скт скт	CIRCUIT	DESCRIPTION	BKR TRIP	P BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B	8 (VA)	PHASE C ((VA) L T	.OAD TYPE	BKR TYPE P	BKR TRIP	CIRCUIT DESCRIPTION	скт
1	LIFT - IN GROUND (EQ1	04-4) - AUTO LAB 10	9 30	2	0	2,060 1,440			0	1 15	A/C MACHINE 1234YF (EQ111-2) - TOOL CRI	B 2 1 A	LIGNMENT LIFT (EQ	(103) - AUTO LAB 109	40	2	0	2,060 1,664	1				0	1	20	BRAKE LATHE (EQ108) - AUTO LAB 109	2
3.							2,060 1,768		R	2 20	EQ139A - SNAP ON BENCH - 114	4 3							2,060	3,120			0	2	40	2-POST LIFT (EQ115-3) - AUTO BAY 31	4
5	LIFT - IN GROUND (EQ1	04-5) - AUTO LAB 10	9 30	2	0			2,060 1,768				6 5 F	RESS (EQ109) - AUT	TO LAB 109	20	1	0				1,080 3	3,120					6
7						2,060 1,768	0.000 4.700		R	2 20	EQ139B - SNAP ON BENCH - 115		RILL PRESS (EQ112	2) - AUTO LAB 109	45	2	0	3,120 3,120)	2,400			0	2	40	2-POST LIFT (EQ115-4) FUTURE - AUTO B	<u>AY</u> 8
9	LIFT - IN GROUND (EQT	04-6)- AUTO LAB 10	19 30	2	0		2,060 1,768	2,060 1,900	 D			10 9 -		IET 112					3,120	3,120	2 704 1	000	 D				10 AV 21 12
13	 LIFT - IN GROUND (FO1	04-7) - AUTOLAB 10	19 30	2		2 060 1 800		2,000 1,000	R	1 20	EQ140A - SNAP ON BENCH - 115	14 13 -	Q132A - 301330K L	161 113	40	Z		2 704 1 000			2,704	,000	R	1	20	QUAD RECEPTACLE (FUTURE) - AUTO BA	AY 32 14
15						2,000 1,000	2.060 0		Spare	1 20	SPARE	16 15 E	Q132B - SCISSOR L	IFT 114	40	2	0	2,104 1,000	2.704	800			0	1	20	RCPT POWER REE L(FUTURE)-AUTO BAY	Y 16
17	LIFT - IN GROUND (EQ1	04-8) - AUTO LAB 10	9 30	2	0			2,060 1,800	R	1 20	EQ140C - SNAP ON BENCH - 115	18 17 -									2.704	0 5	Spare	1	20	SPARE	18
19 ·		,				2,060 0			Spare	1 20	SPARE	20 19 S	PARE		40	2	Spare	0 0			, -	S	Spare	1	20	SPARE	20
21	LIFT - IN GROUND (EQ1	04-9) - AUTO LAB 10	9 30	2	0		2,060 0		Spare	1 20	SPARE	22 21							0	0		S	Spare	1	20	SPARE	22
23 ·								2,060 0	Spare	1 20	SPARE	24 23 S	PARE		40	2	Spare				0	0 5	Spare	1	20	SPARE	24
25	LIFT - IN GROUND (EQ1	04-10) - AUTO LAB 1	09 30	2	0	2,060				1	SPACE ONLY	26 25 -						0 0				S	Spare	1	20	SPARE	26
27							2,060	1.001		1	SPACE ONLY	28 27 F	LUSH MOUNT ALIGN	N. LIFT (EQ116) - AUTO.	40	2	0		3,120	0		8	Spare	1	20	SPARE	28
29	TIRE CHANGER (EQ106) - AUTO LAB 109	15	2	0	4.004		1,664		1	SPACE ONLY	30 29						004			3,120	0 5	Spare	1	20	SPARE	30
31						1,664	4 500			1		32 31 E	XHAUST FAN (EQ11	8-1) - AUTO LAB 109	20	1	0	264	2,000					1			32
33	WHEEL BALANCER (EQ	107)- AUTO LAB 109	15	2	0		1,000	1.560 1.440	0	I 1 15		34 33 U	HUP SAW (EQTI9) -	AUTO LAB 109	25	2	0		2,080		2.080			1			34
30	 SPACE ONLY			1				1,500 1,440	0	1 10	ACTINACTINE R134A (EQTID-1) - TOOL ORID	30 38 37 F	YHALIST FAN (FO11		20	1		264			2,000			1			38
39	SPACE ONLY			1			1 440		0	1	A/C MACHINE R134A (E0110-2) - TOOL CRIB	40 39 A	LIGNER (E0120-2) -		20	1	0	204	1 800					1		SPACE ONLY	40
41	A/C MACHINE 1234YE (F	Q111-1) - TOOL CRIF	B 15		0		1,110	1.440	Ŭ	1	SPACE ONLY	42 41 A	LIGNER (EQ120-2)	AUTO I AB109	20		0		1,000		1.800			1		SPACE ONLY	42
		- ,		тот то ⁻	TAL LOAD: TAL AMPS	: 16972 VA 5 142 A	16836 VA 140 A	19712 VA 164 A								TOTAL TOTA	l load: L Amps	14196 VA 118 A	21924 1877	VA A	17608 V 151 A	/Α					
LOA TYPI	AD LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D	ESTIMATE DEMAND (\	ED VA)	DEM	AND FACTOR NOTE	S	BKR TYPE		PANEL TOTALS	LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D	ESTIMATED DEMAND (VA))	DE	MAND FACTOR	RNOTES			Bł	KR TYPE		PANEL TOTALS	
L	LIGHTING	0 VA	0.00%	0 V/	A CON	NTINUOUS LOAD @	125%		G = GFCI (5mA)				LIGHTING	0 VA	0.00%	0 VA	CONT	FINUOUS LOAD (@ 125%			G	= GFCI (5	(5mA)			
R	RECEPTACLES	12472 VA	90.09%	11236 V/	A FIRS	ST 10KVA @ 100%,	REMAINDER @ 50%		GP = GFP (30mA)		CONNECTED LOAD: 54 kVA	R	RECEPTACLES	2000 VA	100.00%	2000 VA	FIRST	T 10KVA @ 100%	, REMAINDER	@ 50%		GF	P = GFP ((30mA)		CONNECTED LOAD: 54 kVA	
K	KITCHEN	0 VA	0.00%	0 V/		N-DWELLING KITCH	EN LOADS, NEC AR	T. 220	ST = SHUNT TRIP		ESTIMATED DEMAND: 52 kVA	К	KITCHEN	0 VA	0.00%	0 VA	NON-	DWELLING KITC	HEN LOADS, N	IEC ART. 2	220	ST	= SHUN			ESTIMATED DEMAND: 54 kVA	
LM	I LARGEST MOTOR	0 VA	0.00%	0 V/	A LAR	RGEST MOTOR, NEO	C ART. 430		LO = LOCK OUT		CONNECTED CURRENT: 149 A	LM	LARGEST MOTOR	R 0 VA	0.00%	0 VA	LARG	EST MOTOR, NE	EC ART. 430			LO) = LOCK	(OUT		CONNECTED CURRENT: 149 A	
M	MOTOR	0 VA	0.00%	0 V/	A	- ,					EMD CURRENT: 145 A	M	MOTOR	0 VA	0.00%	0 VA		- ,								EMD CURRENT: 149 A	
C C	COOLING	0.1/4	0.00%	0.1/2	Δ								COOLING	0 \/Δ	0.00%	0 \/A											
		0 V/	0.00%		Λ										0.0070												
		A1010 VA	100.00/	11010										E1700 \/A	100 000/	51700 \/A											
		4 1040 VA	0.000/	4 1040 V/										31/20 VA	0.000/	01/20 VA											
Spar	re SPARE	U VA	0.00%	U V/	A				1			Spare	SPARE	U VA	0.00%	U VA						1			1		

PAN	iel: auto	5									PANEL: A	UTO6							
LOCATION: VOLTS: 208Y / 120						MO	UNTING: SURFACE		LOCATION:				VOLTS: 208Y / 1	20		MOUNTI	NG: SURFACE		
BUS RAT	FING: 125 A				PHASES: 3			FEI	D FROM: TX-3		BUS RATING: 2	25 A			PHASES: 3			FED FR	OM: TX-4
MAIN BREA	KER: 100A				WIRES: 4			INTEGR	AL SPD: NO		MAIN BREAKER: 2	00 A			WIRES: 4			INTEGRAL S	PD: NO
					SCCR: 10,000			LUG ACCES	SORIES: NONE						SCCR: 10,000		LL	JG ACCESSORI	ES: NONE
CKT CIRCUIT DESCRIPTION	B	KR RIP P	BKR LOAD TYPE TYPE	A	В	с	LOAD BKR TYPE TYPE	P BK TRI	IP CIRCUIT DESCRIPTION CKT	CKT CIRCUIT DI	SCRIPTION	BKR TRIP	P BKR LOA TYPE TYP	AD A	В	С	LOAD BKR TYPE TYPE	P BKR TRIP	CIRCUIT DESCRIPTION CK
1 GEN. RECEPTACLE - AUTO LAB 109		20 1	R	360 540	4 000		R	1 20	O GEN. RECEPTACLE (EXTERIOR) NORTH EAST 2	1 EQ138A1 - SNAP ON B	INCH	20	1 R	1,800 1,65			0	1 20	OVERHEAD DOOR - AUTO LAB 109 (SOUTH 2
3 EQ13/A SNAP ON BENCH 5 RECEPTACLE POWER REFL - OLIICK		20 1 20 1	R		1,800 0	800 0	Spare	3 20	J SPARE 4	3 EQ138B1 - SNAP ON B 5 GEN RECEPTACIE - C	ENCH EM 113	20	1 R		1,800 1,656	360 1.656		1 20	OVERHEAD DOOR - OEM 113 4 OVERHEAD DOOR - OEM 114 6
7 EQ137B SNAP ON BENCH		20 1	R	1.800 0		0000 0			· 8	7 RECEPTACLE - 208V -	DEM 113	20	2 R	540 1,65	6		0	1 20	OVERHEAD DOOR - OEM 115 8
9 EQ137C SNAP ON BENCH		20 1	R		1,800 900		0	2 20	ALIGNMENT MACHINE (EQ125) - AUTO LAB 10	9					540 720		R	1 20	RECEPTACLE EXTERIOR - SOUTH SIDE 10
11 RECEPTACLE POWER REEL - QUICK	SERVI	20 1	0			400 900			12	11 GEN. RECEPTACLE - C	EM 113	20	1 R			360 1,040	D M	2 20	AD-1 - AUTO BAY 109 12
13 GEN. RECEPTACLES - AUTO LAB 10		20 1	R	720 1,800	<u> </u>		R	1 20	D EQ137A1 SNAP ON BENCH 14	13 GEN. RECEPTACLE - C	EM 114	20	1 R	360 1,04) 1,000 1,656				14 OVERHEAD DOOD (SOLITH WEST) OFM 112 16
17 EO137E SNAP ON BENCH	SERVI	20 1	R R		000 1,800	1 800 1 800		1 20	D EQ137B1 SNAP ON BENCH 10 D EQ137C1 SNAP ON BENCH 18	13 POWER REEL - DEWIT	3	20	1 Sna	ro	1,000 1,000	0 1.656	0 3 0	1 20	OVERHEAD DOOR (SOUTH WEST) - OEM 113 18
19 LANDSCAPE CONTROLLER - SOUTH	EAST	20 1	R	180 1.800		1,000 1,000	R	1 20	D EQ137D1 SNAP BENCH 20	19 RECEPTACLE BENCH	OEM 113. 114	20	1 C	800 1.65	6	0 1,000	0	1 20	OVERHEAD DOOR (SOUTH WEST) - OEM 114 20
21 SPARE		20 1	Spare		0 1,800		R	1 20	EQ137D SNAP ON BENCH 22	21 GEN. RECEPTACLE - C	EM 114	20	1 R		360 1,656		0	1 20	OVERHEAD DOOR (SOUTH EAST) - OEM 114 22
23 SPARE		20 1	Spare			0 1,800) R	1 20	D EQ137E1 SNAP ON BENCH 24	23 RECEPTACLE - 208V -	DEM 114	20	2 R			540 1,656	6 O	1 20	OVERHEAD DOOR (SOUTH WEST) - OEM 115 24
25 SPARE		20 1	Spare	0 0			Spare	1 20	D SPARE 26					540 1,65	<u>}</u>		0	1 20	OVERHEAD DOOR (SOUTH EAST) - OEM 115 26
27 SPARE		20 1	Spare		0 0	0 0	Spare	1 20	J SPARE 28	27 GEN. RECEPTACLE - C	EM 115 EM 115	20	1 R		360 1,500	360 1 50		2 20	EQ133A TIRE CHANGE - 113 28
31 SPARE		20 1	Spare	0 0		0 0	Spare	1 20) SPARE 30	31 RECEPTACIE - 208V -	DFM 115	20	2 R	0 1.50)	300 1,30	R	2 20	50 FQ133B TIRE CHNAGE - 113 32
33 SPARE		20 1	Spare	0 0	0 0		Spare	1 20	D SPARE 34	33				1,00	0 1,500				34
35 SPACE ONLY		1						1	SPACE ONLY 36	35 SPARE		20	1 Spa	re		0 1,040) R	2 20	EQ134A BALANCER - 113 36
37 SPACE ONLY		1						1	SPACE ONLY 38	37 OVERHEAD DOOR - AU	TO ALB 109 (NORTH)	20	1 C	1,656 1,04)				38
39 SPACE ONLY		1						1	· SPACE ONLY 40	39 OVERHEAD DOOR - AL	TO ALB 109 (NORTH)	30	1 C		1,656 1,040	1.050 1.04	R	2 20	EQ134B BALANCER - 113 40
				7200 VA	8900 VA	7500 VA			SPACE UNLT 42	41 OVERHEAD DOOR - AU	TO ALD 109 (NORTH.	20		AD: 15900 VA	15444 VA	12864 VA	J		42
			TOTAL AMPS	60 A	75 A	63 A							TOTAL AN	IPS 136 A	132 A	107 A			
												DEMAN							
TYPE DESCRIPTION (VA)		Di	EMAND (VA)	DEM	AND FACTOR NOTES	S	BKR TY	PE	PANEL TOTALS	TYPE DESCRIPTION	(VA)	DEMAN	DEMAND (VA)	DE	MAND FACTOR NOTE	S	BKR TYPE		PANEL TOTALS
L LIGHTING	0 VA 0.0	0%	0 VA COM	TINUOUS LOAD @	. 125%		G = GFCI (5mA)			L LIGHTING	0 VA	0.00%	0 VA 0	CONTINUOUS LOAD	@ 125%		G = GFCI (5mA)		
R RECEPTACLES 1980	00 VA 75.2	25%	14900 VA FIRS	ST 10KVA @ 100%,	REMAINDER @ 50%		GP = GFP (30mA)	CONNECTED LOAD: 24 kVA	R RECEPTACLES	19800 VA	75.25%	14900 VA F	IRST 10KVA @ 100%	, REMAINDER @ 50%		GP = GFP (30mA)		CONNECTED LOAD: 44 kVA
K KITCHEN	0 VA 0.0	0%	0 VA NOM	I-DWELLING KITCH	EN LOADS, NEC ART	Г. 220	ST = SHUNT TRI	P	ESTIMATED DEMAND: 19 kVA	K KITCHEN	0 VA	0.00%	0 VA 🛛	ION-DWELLING KITC	HEN LOADS, NEC AR	. 220	ST = SHUNT TRIP		ESTIMATED DEMAND: 39 kVA
LM LARGEST MOTOR	0 VA 0.0	0%	0 VA LAR	GEST MOTOR, NEC	C ART. 430		LO = LOCK OUT		CONNECTED CURRENT: 66 A	LM LARGEST MOTOR	0 VA	0.00%	0 VA 🛛 L	ARGEST MOTOR, N	EC ART. 430		LO = LOCK OUT		CONNECTED CURRENT: 123 A
M MOTOR	0 VA 0.0	0%	0 VA						EMD CURRENT: 52 A	M MOTOR	2080 VA	100.00%	2080 VA						EMD CURRENT: 109 A
C COOLING	0 VA 0.0	0%	0 VA							C COOLING	0 VA	0.00%	0 VA						
H HEATING	0 VA 0.0	0%	0 VA							H HEATING	0 VA	0.00%	0 VA						
O OTHER 380	00 VA 100.	00%	3800 VA							O OTHER	20672 VA	100.00%	20672 VA						
Spare SPARE	0 VA 0.0	0%	0 VA							Spare SPARE	0 VA	0.00%	0 VA						
										L									

		PANEL: AL	JTO4															
		LOCATION: BUS RATING: 225 MAIN BREAKER: 200	i A I A						VOLTS PHASES WIRES SCCR	: 208Y / 12 : 3 : 4 : 10,000	20			Ľ	IN UG A	MOUN FED F TEGRAL CCESSO	TING: SURFACE ROM: TX-2 . SPD: NO RIES: NONE	
Т	CIRCUIT DE	ESCRIPTION	BKR TRIP	Р	BKR TYPE	LOAD TYPE	PHASE	A (VA)	PHASE	EB (VA)	PHASI	E C (VA)	LOAD TYPE	BKR TYPE	Р	BKR TRIP	CIRCUIT DESCRIPTION	СКТ
	ALIGNMENT LIET (EQ1(03) - AUTO I AB 109	40	2		0	2 060	1 664					0		1	20	BRAKE LATHE (EQ108) - AUTO LAB 109	2
							2,000	1,001	2.060	3.120			0	-	2	40	2-POST LIFT (EQ115-3) - AUTO BAY 31	4
	PRESS (EQ109) - AUTO	LAB 109	20	1		0			,		1,080	3,120						6
	DRILL PRESS (EQ112) -	- AUTO LAB 109	45	2		0	3,120	3,120					0		2	40	2-POST LIFT (EQ115-4) FUTURE - AUTO BAY	8
									3,120	3,120								10
	EQ132A - SCISSOR LIF	T 113	40	2		0					2,704	1,000	R		1	20	QUAD RECEPTACLE (FUTURE) - AUTO BAY 31	12
}							2,704	1,000					R	<u> </u>	1	20	QUAD RECEPTACLE (FUTURE) - AUTO BAY 32	2 14
)	EQ132B - SCISSOR LIF	T 114	40	2		0			2,704	800	0.704	0	0		1	20	RCPT POWER REE L(FUTURE)-AUTO BAY	16
<u> </u>						 Spore		0	<u> </u>	<u> </u>	2,704	0	Spare		1	20	SPARE	18
	SPARE		40	2		Spare	<u>;</u> U	0	0	0			Spare		1	20		20
2	 SPARF		40	2		Spare			0		0	0	Spare		1	20	SPARE	22
;							0	0		<u> </u>		U	Snare		1	20	SPARE	26
,	FLUSH MOUNT ALIGN.	LIFT (FQ116) - AUTO	40	2		0			3.120	0			Spare		1	20	SPARE	28
)									0,120		3.120	0	Spare		1	20	SPARE	30
	EXHAUST FAN (EQ118-	-1) - AUTO LAB 109	20	1		0	264					-			1		SPACE ONLY	32
}	CHOP SAW (EQ119) - A	ÚTO LAB 109	25	2		0			2,080						1		SPACE ONLY	34
;											2,080				1		SPACE ONLY	36
'	EXHAUST FAN (EQ118-	2) - TOOL CRIB 110	20	1		0	264								1		SPACE ONLY	38
)	ALIGNER (EQ120-2) - AI	UTO ALB109	20	1		0			1,800						1		SPACE ONLY	40
	ALIGNER (EQ120-1) - Al	UTO LAB109	20	1		0					1,800				1		SPACE ONLY	42
					TOTA	al amp	S 118	<u>b VA</u> 3 A	18	<u>'4 VA</u> 7 A	176	58 VA 51 A						
) Yf	AD LOAD PE DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D	ES DE	STIMATED MAND (V/) 4)		DEM/		OR NOTES	6			BKR TYPI	E		PANEL TOTALS	
L	LIGHTING	0 VA	0.00%		0 VA	CC	NTINUOUS	LOAD @	125%				G = GFC	I (5mA)				
R	RECEPTACLES	2000 VA	100.00%	-	2000 VA	FIF	RST 10KVA (@ 100%. F	REMAINDE	R @ 50%			GP = GF	P (30mA)			CONNECTED LOAD: 54 kVA	
K	KITCHEN	0 VA	0.00%		0 VA	NC	N-DWELLIN	G KITCH	EN LOADS	NEC ART	220		ST = SHL	JNT TRIP			ESTIMATED DEMAND: 54 kVA	
LN	LARGEST MOTOR	0 VA	0.00%	<u> </u>	0 VA		RGEST MOT	OR. NFC	ART. 430				LO = 1.00	CK OUT			CONNECTED CURRENT: 149 A	
M		0 VA	0.00%	<u> </u>													FMD CURRENT: 149 A	
<u>ارا</u>			0.00%	+	0 1/4	—												
			0.00%	+	0 VA													
H		U VA	0.00%	<u> </u>	U VA													
U		51/28 VA	100.00%		51/28 VA													
		<u>^\/^</u>	· 0 000/ '		O \ / A	1							1			1		

ACE	
CIRCUIT DESCRIPTION	скт
	2
	4
NAP ON BENCH	6
	8
MPUTER ROLLAROUND CABINET	10
	12
	14
	16
	18
	20
	22
	24
	26
Y	28
_Y	30
_Y	32
Y	34
_Y	36
_Y	38
Y	40
Y	42
PANEL TOTALS	
NNECTED LOAD: 44 kVA	
IATED DEMAND: 44 kVA	
CTED CURRENT: 122 A	
EMD CURRENT: 122 A	

