LRHSD PROJECT NO. REF21-34-8241 LENAPE HIGH SCHOOL 235 HARTFORD ROAD MEDFORD, NJ 08055 LENAPE REGIONAL HIGH SCHOOL SCHOOL DISTRICT PREPARED FOR THE

PROPOSED SCIENCE CLASSROOM RENOVATIONS LENAPE REGIONAL HIGH SCHOOL DISTRICT BOARD OF EDUCATION

ARCHITECT THE DESIGN COLLABORATIVE ARCHITECTS AND PLANNERS, P.A. 1940 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210

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I. CONCRETE MASONRY UN R. COUNTER IC. CONCRETE ISTR. CONSTRUCTION ITR CONTRACTOR RR CORRIDOR IT. CONTINUOUS DEEP DETAIL DIA. DIAMETER I. DISTRIBUTION (TOR) DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT a(6). DRAWING (5) EACH ELECTRIC PANEL VI. ELEVATION ELECTRIC PANEL MONOMER D. EQUIPMENT EACH SIDE EQUAL IV. EQUIPMENT EACH SIDE EQUAL IV. EQUIPMENT EACH SIDE EXTRUDED POLYSTYRE EQUAL EXTRUDED POLYSTYRE EQUAL EXC. IV. EQUIPMENT EACH SIDE EXERTIOR A. / EXIST. EXISTING P. EXTERIOR FIRE ALARM FIRE ALARM	JB.	JAMB	STRUCT.	STRUCTURAL	 K. (NJAC) NEW JERSEY ADMINISTRATIVE CODE, TITLE 6[±] CHAPTER 22, L. ICC / ANSI A117.1, 2017
R. COUNTER AC. CONCRETE ASTR CONSTRUCTION ATR CONTRACTOR ATR CONTRACTOR ATR CONTINUOUS DEEP C. DETAIL DIA DIAMETER T. DISTRIBUTION (TOR) DOUBLE DATE BOARD DOOR DOUN SPOUT G(S). DRAWING (S) EACH ACCH ACCH ACCH ACCH ACCN EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER B. EXTRUDED POLYSTYRE EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. EXTERIOR FIRE ALARM	UNIT JT.	JOINT	SUSP'D.	SUSPENDED	M. INTERNATIONAL FUEL GAS CODE, 2021, AS APPLICABLE
IV. CONSTRUCTION INTR CONSTRUCTION INTR CONTRACTOR RR CORRIDOR IT. CONTINUOUS DEEP DETAIL DIA. DIAMETER T. DISTRIBUTION (TOR) DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(S). DRAWING (S) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER 6. EXTRUDED POLYSTYRE EQUAL IV. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G./ EXIST. EXISTING P. EXPANSION EXTERIOR FIRE ALARM	KII.	KITCHEN	5.W. +	SHORT WAY	0. SEI/ASCE (AMERICAN SOCIETY OF CIVIL ENGINEERS) CURRENT EDIT
 NTR CONTRACTOR RR CONTINUOUS DEEP I. DETAIL DIA DIAMETER T. DISTRIBUTION (TOR) L. DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(S) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER EACH S. EXTRUDED POLYSTYRE EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING EXTERIOR FIRE ALARM 	LG. I AM		. †p	TREAD / THICKNESS / TOP	P. ASTM E1886-02 / ASTM E1996-02 WIND ZONE AND MISSILE TESTING.
RR CORRIDOR IT. CONTINUOUS DEEP DETAIL DIA. DIAMETER T. DISTRIBUTION (TOR) DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(S). DRAWING (S) EACH ELECTRIC PANEL M. ETHYLENE PROPYLENE MONOMER EQUAL IV. EQUIPMENT EACH SIDE EXTRUDED POLYSTYRE EQUAL EXTRUDED ROLYSTYRE EQUAL EXTRUDED ROLYSTYRE EQUAL EXTRUDED ROLYSTYRE EQUAL EXTRUDED ROLYSTYRE EACH SIDE EXC. ELECTRIC WATER COOLI EXTERIOR FIRE ALARM EXTERIOR FIRE ALARM EXTERIOR	LAB.		i.p. T≰B	TAUN BUARD TOP AND BOTTOM	
NT. CONTINUOUS DEEP I. DETAIL DIA. DIAMETER T. DISTRIBUTION (TOR) L. DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(S). DRAWING (S) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER 6. EXTRUDED POLYSTYRE EQUAL IIV. EQUIVALENT IIP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION I. EXTERIOR FIRE ALARM	LAV.	LAVATORY	TEL.	TELEPHONE	GENERAL NOTES:
DEEP DETAIL DIA. DIAMETER DISTRIBUTION (TOR) DOUBLE DOUBLE DOUR DOUR DOUN SPOUT G(S). DRAWING (S) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER 6. EXTRUDED POLYSTYRE EQUAL IV. EQUIVALENT IIP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION I. EXTERIOR FIRE ALARM	L L.H.	LONG LEG HORIZONTAL	th K .	THICK	FOR SELECTIVE DEMOLITION WORK TO ARCHITECT FOR REVIEW PRIOR
DETAIL DIA. DIA. DIAMETER I. DISTRIBUTION (TOR) DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT a(6). DRAWING (5) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELECTRIC PANEL PM. ETHYLENE PROPYLENE MONOMER B. EXTRUDED POLYSTYRE EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. EXPANSION C. EXPANSION A. / EXIST. EXIGTING P. EXIGTING P. EXTERIOR FIRE ALARM	LL.V.	LONG LEG VERTICAL	tlt.	TOILET	INCLUDE COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION (REQUIRED, TOGETHER W/ DETAILS FOR DUST AND NOISE CONTROL. PI
 DIA. DIAPIETER T. DISTRIBUTION (TOR) DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(S). DRAWING (S) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER EAUIVALENT IIP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. EXTERIOR FIRE ALARM 	L.P.	LOW POINT	Ť. <i>O.</i>	TOP OF	DEMOLITION AND REMOVAL WORK TO ENSURE OWNER'S ONSITE OPER-
I. DININIZATION (1010) L. DOUBLE B DRY MARKER BOARD DOOR DOUN SPOUT G(5). DRAWING (5) EACH EACH (IC) EFFICIENCY EXPANSION JOINT / / ELEY. ELEVATION ELECTRIC PANEL DMONOMER 6. EXTRUDED POLYSTYRE EQUIVALENT IIP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION I. EXTERIOR FIRE ALARM	LWC. MACH	LIGHTWEIGHT CONCRETE	T.O.5. T.C	TOP OF STEEL / TOP OF SLAB	2. OCCUPANCY: OWNER WILL BE CONTINUOUSLY OCCUPYING AREAS OF
 DRY MARKER BOARD DOOR DOUN SPOUT SPOUT G(5). DRAWING (5) EACH EACH EFFICIENCY EXPANSION JOINT ELEVATION ELECTRIC PANEL M. ETHYLENE PROPYLENE MONOMER EXTRUDED POLYSTYRE EQUAL EQUIVALENT EQUIPMENT EACH SIDE ELECTRIC WATER COOLI A. / EXIST. EXISTING EXTERIOR FIRE ALARM 	MAS,	MAGONRY	1.9. T <i>O</i> III	TRANSITION STRIP I CARPET TO VINTL TOP OF INDE	ADJACENT TO AREAS OF SELECTIVE DEMOLITION. CONDUCT SELECTIV THAT WILL MINIMIZE NEED FOR DIGRUPTION OF OWNER'S NORMAL OPER
DOOR DOUN SPOUT G(5). DRAWING (5) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER S. EXTRUDED POLYSTYRE EQUAL JIV. EQUIVALENT JIP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION I. EXTERIOR FIRE ALARM	D MAX.	MAXIMUM	typ,		12 HOURS ADVANCE NOTICE TO OWNER OF DEMOLITION ACTIVITIES WHI
DOUN SPOUT G(5). DRAWING (5) EACH (IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL DM. ETHYLENE PROPYLENE MONOMER 6. EXTRUDED POLYSTYRE EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. EXIST. EXISTING P. EXIST. EXISTING P. EXPANSION I. EXTERIOR FIRE ALARM	MBSR	MODIFIED BITUMEN SHEET ROOFING	UC.	UTILITY CLOSET	WHICH COULD DISTURB THE OWNER'S NORMAL OPERATIONS WILL BE S
a(5). DRAWING (5) EACH 'IC) EFFICIENCY EXPANSION JOINT / ELEV. ELEVATION ELECTRIC PANEL MM. ETHYLENE PROPYLENE MONOMER B. EXTRUDED POLYSTYRE EQUIVALENT IP. EQUIVALENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXISTING	MDO.	MARINE DENSITY OVERLAY	uL.	UNDERWRITER'S LABORATORIES	THE OWNER'S OFF-PEAK OPERATION PERIOD, AS SPECIFIED BY THE C 3. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMIT
EACH EACH EACH EACH EACH EACH EACH EXPANSION JOINT ELEV. ELEVATION ELECTRIC PANEL MONOMER EACH PROPYLENE MONOMER EQUIAL V. EQUIVALENT P. EQUIVALENT EACH SIDE ELECTRIC WATER COOLI EXISTING EXPANSION EXTERIOR FIRE ALARM	MECH.	MECHANICAL	UN <i>O</i>	UNLESS NOTED OTHERWISE	4. PROTECTIONS: PROVIDE TEMPORARY BARRICADES AND OTHER FOR
EXPANSION JOINT EXPANSION JOINT ELEVATION ELECTRIC PANEL M. ETHYLENE PROPYLENE MONOMER EQUIAL IV. EQUIVALENT EQUIVALENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING EXPANSION EXTERIOR FIRE ALARM	MEGID	MANUFACTURER	U.S.	UNDER SIDE	REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC DEMOLITION WORK.
Y ELEV. ELEVATION ELECTRIC PANEL M. ETHYLENE PROPYLENE MONOMER 6. EXTRUDED POLYSTYRE EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE 2. ELECTRIC WATER COOLI 3. / EXIST. EXISTING 2. EXPANSION EXTERIOR FIRE ALARM	MFS	MONOLITUIC EPOVY	uba. Ilv	UNIEU STATES GIFSUM INIT VENTILATOR	 PROVIDE PROTECTIVE MEASURES AS REQUIRED TO PROVIDE FREE A PERSONNEL TO AND FROM OCCUPIED PORTIONS OF BUILDING.
ELECTRIC PANEL ETHYLENE PROPYLENE MONOMER EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING EXPANSION EXTERIOR FIRE ALARM		FLOOR SYSTEM	v.r. VCT.	VINYL COMPOSITION TILE	6. PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN EXPOSED
M. ETHYLENE PROPYLENE MONOMER EXTRUDED POLYSTYRE EQUAL V. EQUIVALENT P. EQUIPMENT EACH SIDE ELECTRIC WATER COOLI X. EXIST. EXISTING EXPANSION EXTERIOR FIRE ALARM	MIN.	MINIMUM	VERT.	VERTICAL	1. CONSTRUCT TEMPORARY INSULATED SOLID DUSTPROOF PARTITIONS (
MONOMER EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION EXTERIOR FIRE ALARM	NE DIENE- M.O.	MASONRY OPENING	V.H.I.F.R.	VERY HIGH IMPACT FIBERGLASS	AREAS WHERE NOISY OR EXTENSIVE DIRT OR DUST OPERATIONS ARE PARTITIONS WITH DUSTPROOF DOORS AND SECURITY LOCKS IF REQUI
5. EXTRUDED POLYSTYRE EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE C. ELECTRIC WATER COOLI 3. / EXIST. EXISTING P. EXPANSION . EXTERIOR FIRE ALARM	M.T.	MARBLE THRESHOLD		REINFORCED	REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION
EQUAL IV. EQUIVALENT IP. EQUIPMENT EACH SIDE EACH S	RENE MID.	MOUNTED	V.I.F.	VERIFY IN FIELD	 UTILITY SERVICES: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO N
IP. EQUIPALLIN IP. EQUIPMENT EACH SIDE ELECTRIC WATER COOLI A. / EXIST. EXISTING EXPANSION EXTERIOR FIRE ALARM	I'IIL. Mill	METAL	VTR	VENT THRU ROOF	SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED HAVING JURISDICTION PROVIDE TEMPORARY SERVICES DURING INTE
EACH SIDE C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION . EXTERIOR FIRE ALARM	N.C.	MICROWAYE	Y.₩1*1. 111	VERIFT WITH MANUFACTURER	UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
C. ELECTRIC WATER COOLI G. / EXIST. EXISTING P. EXPANSION EXTERIOR FIRE ALARM	N.I.C.	NOT IN CONTRACT	w. WD.	WOOD	 ENVIRONMENTAL CONTROLS: USE WATER SPRINKLING, TEMPORART EN SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING
G. / EXIST. EXISTING P. EXPANSION P. EXTERIOR FIRE ALARM	OLER NO.	NUMBER	W/	WITH	LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVI NOT LISE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONARI
P. EXPANSION 7. EXTERIOR FIRE ALARM	NTS.	NOT TO SCALE	W/R	WATER REGISTANT	FLOODING, AND POLLUTION.
I. EXTERIOR FIRE ALARM	O.C.	ON CENTER	W.W.F.	WELDED WIRE FABRIC	
	OPER.	OPERATOR / TION	W.P.	WATER PROOF	
FIRE EVTINGIIIGUER	U.U. PAPT	OUISIDE DIAMETER	W.C.		
FINISH FLOOR	PC	MARIIIUN PRE-CAST	W.H. YD	WALL HIVKANI YARD DRAIN	
, FINISH	1,000		وممياد ا		



ROJECT SCOPE

IECT INCLUDES INTERIOR RENOVATIONS TO THE EXISTING IM AREAS:

ROOM, GYM OFFICES, STORAGE, CORRIDORS, VESTIBULES RY ROOMS. IDES INTERIOR RENOVATIONS, PROVISION OF NEW WALLS, FLOORS, LOCKERS, SHOWER ROOMS, TOILET ROOMS, DORS, AND VESTIBULES INCLUDING LOOSE AND FIXED T, HVAC, PLUMBING, ELECTRICAL AND FIRE SUPPRESSION

DE INFORMATION

2 HOUR FLAME SPREAD, INTERIOR FINISH (ROOMS & ENCLOSED SPACES, IBC TABLE 803.9) CLASS C, INTERIOR FLOOR FINISH EDUCATIONAL. NO CHANGE IN USE IS PROPOSED UNDER THE SCOPE 2 STORY (EXISTING - NO CHANGE PROPOSED) NO CHANGE IN USE OR AREA PROPOSED

LICABLE TO THIS PROJECT: TRUCTION CODE, 5:23, AS AMENDED, NEW JERSEY DEPARTMENT OF GOVERN THE WORK OF THIS PROJECT: EXCEPT AS NOTED HEREIN.

= OUBLOODE; 5:23-1; AS AI IENDED. ODE -NJ ED., 2021, AS AMENDED. INGERVATION CODE / 2021 (REGIDENTIAL) AND AGHRAE 90. 1-2019 AL CODE COUNCIL, INC. (ICC). SING CODE, 2021, AS AMENDED. ONAL ELECTRICAL CODE / NATIONAL FIRE PROTECTION ASSOCIATION

LICABLE. ies Act.), AS APPLICABLE. TRATIVE CODE, TITLE 6± CHAPTER 22, AS APPLICABLE.

NDICATING PROPOSED METHODS AND SEQUENCE OF OPERATIONS IK TO ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF WORK. UTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS LS FOR DUST AND NOISE CONTROL. PROVIDE DETAILED SEQUENCE OF RK TO ENGURE OUNER'S ONSITE OPERATIONS ARE NOT UNINTERRUPTED. TINUING OCCUPATION OF PORTIONS OF EXISTING BUILDING.

ONTINUOUSLY OCCUPYING AREAS OF THE BUILDING IMMEDIATELY TIVE DEMOLITION. CONDUCT SELECTIVE DEMOLITION WORK IN MANNER ISRUPTION OF OUNER'S NORMAL OPERATIONS. PROVIDE MINIMUM OF OWNER OF DEMOLITION ACTIVITIES WHICH WILL IMPACT OWNER'S NOTE: TO THE GREATEST EXTENT POSSIBLE, DEMOLITION WORK IRE'S NORMAL OPERATIONS WILL BE SCHEDULED TO OCCUR DURING TION PERIOD, AS SPECIFIED BY THE OWNER. D ITEMS ON SITE WILL NOT BE PERMITTED. ORARY BARRICADES AND OTHER FORMS OF PROTECTION AS

B PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO S AS REQUIRED TO PROVIDE FREE AND SAFE PASSAGE OF OWNER UPIED PORTIONS OF BUILDING. ING FINISH WORK THAT IS TO REMAIN IN PLACE AND BECOMES TED SOLID DUSTPROOF PARTITIONS WHERE REQUIRED TO SEPARATE GIVE DIRT OR DUST OPERATIONS ARE PERFORMED. EQUIP OORS AND SECURITY LOCKS IF REQUIRED, DAMAGES: PROMPTLY ADJACENT FACILITIES BY DEMOLITION WORK AT NO COST TO OWNER. ISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE, AND RING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES CILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES DE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING O GOVERNING AUTHORITIES. USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER DUST AND DIRT RISING AND SCATTERING IN AIR TO LOUEST PRACTICAL NING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE,

SYMBOLS ELEVATION No. SHEET No. WALL SECTION NO. 🛛 SHEET No. BUILDING SECTION No. 1 SHEET NO. DETAIL SECTION No. SHEET No. DETAIL No. SHEET NO. / O'-O" / DIMENSION ●<u>∅'-∅"</u>● Ç DIMENSI*O*N (A) (B) ECOLUMN TO ECOLUMN TO 0'-0")----() ENLARGEMENT CMU W/ FIRE RATING (PLAN) BRICK WOOD BLOCKING 10/11 FINISH WOOD CONCRETE INSULATION RIGID/SEMI-RIGID $\neg \neg \neg \neg \neg \neg \neg$. INSULATION BIT PLYWOOD LARGE SCALE

STEEL





N.T.S.

SITE LOCATION PLAN

AERIAL VIEW

N.T.S.









COMMENIS	
FOR SCIENCE ROOM: A2Ø9 A2Ø5	ROOM AREAS ARE BEING ENLARGED AS A PER U.C.C. 6.6(h), 6.18 (b) APPLIES. SINCE EGRESS LENGTH IS IN EXCESS OF 15', TWO EGRESS DOORS FOR THESE SPACES HA
HARDWARE FOR THE FOLLOWING DOORS: A205-1 A209-1	OCCUPANT LOAD LESS THAN 50 - NO EXIT OPERATION: STANDARD CLASSROOM LOCKSET, EGRESS



BASE CABINETS

	1							
ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS			2	01 & 203	BIOLOG	δY		
DIM.: W X H X D	EXT.2.1	EXT.2.2 (ADA)	LIN.2.1	LIN.2.2	LIN.2.3 (ADJACENT TO ADA STATION)	BAS.2.1	BAS.2.3	DEM.2
COUNTER TOP, BACKSPLASH, END SPLASH	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK
DESCRIPTION	PLAIN APRON TWO DOORS	PLAIN APRON TWO DOORS	REAR CHASE LINE CABINETS, FILLER, CABINETS W/DOORS	BASE CABINET, LEFT HINGE DOOR, CHASE BEHIND	BASE CABINET, RIGHT HINGE DOOR, CHASE AT LEFT SIDE WITH FILLER	BASE CABINET, RIGHT HINGE DOOR, CHASE BEHIND	BASE CABINET, (2) DOORS	INSTRUCTOR ISLAND, H&C WATER, NO GAS.
MODEL NUMBER	48802 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48817 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48903	41121	41120	41120	41181	48305 MODIFIED FOR DEVICES
SIZE	66 36 42	66 33 42	90 36 24	24 35 17	17 35 24	17 35 17	46 35 17	84 36 29
DESCRIPTION	ADDITIONAL WOOD LEGS AND CHASE FOR SINK END FILLER, (2) 91035	ADDITIONAL WOOD LEGS AND CHASE FOR SINK END FILLER (2) 91035		PERIMETER BASE INSERT, APRON HEIGHT	PERIMETER BASE INSERT, FULL HEIGHT			INSTRUCTOR ISLAND EXTENSION
ADDITIONAL MODEL NUMBER	(2) 91005.000	(2) 91005.000		91026 MOD FOR WIDTH	91025 MOD FOR WIDTH			48351.000
SIZE	2 35 2	2 33 2		24 24 08	24 24 08			46 30 29
DESCRIPTION	PIPE CHASE FILLER	PIPE CHASE FILLER (ADA)		BASE CABINET, RIGHT HINGE DOOR, CHASE AT RIGHT SIDE WITH FILLER	BASE CABINET, LEFT HINGE DOOR, CHASE BEHIND			PROVIDE (2) KNEE SPACES W/ REMOVAL ACCESS PANEL
ADDITIONAL MODEL NUMBER	(2) 91035 MOD FOR HT.	(2) 91035 MOD FOR HT.		41120.000	41121.000			
SIZE	32 35 00	32 33 00		17 35 24	24 35 17			
POWER, EACH	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	NO	NO	NO			(1) DUPLEX GFI 52366G
GAS	NO	NO	NO	NO	NO	NO	NO	NO
SINK IN EXTENSION OR ISLAND	NO	NO	NO	NO	NO	NO	NO	(1) 52D05 EPOXY SINK
END SINK	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	NO	NO	NO	NO	NO	NO
LINE SINK	NO	NO	NO	NO	NO	NO	NO	NO
FAUCET	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9WB (ADA)	NO	NO	NO	NO	NO	52244-6 WB HW-CW GOOSENECK W/ VB, SERRATED TIP

WALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	201 & 203 BIOLOGY				
DIM.: W X H X D	WAL.1.6	WAL.1.1	WAL.2.3	WAL.2.4	
DESCRIPTION	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	BLIND CORNER, DISPLAY GLASS, (1) RH DOOR, (2) SHELVES	DISPLAY GLASS, (1) LH DOOR, (2) SHELVES	
MODEL NUMBER	45136	45136	45202	45131	
SIZE	36 36 14	30 36 14	33 36 14	18 36 14	

TALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	201 & 203 BIOLOGY				
DIM.: W X H X D	TAL.1.1	TAL.2.2	TAL.2.3	TAL.2.4	
DESCRIPTION	TEACHER WARDROBE CABINET, LOCKED DOORS, DIVIDER, LEFT - (5) ADJ. SHELVES, RIGHT- ADJ. SHELF, WARDROBE HOOK, MIRROR.	DISPLAY GLASS DOORS, CENTER DIVIDER, (10) ADJ. SHELVES	MICROSCOPE CABINET, DISPLAY GLASS DOORS, 20 COMPARTMENTS, LOCKS	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS	
MODEL NUMBER	47618	47137	47733	47342	
SIZE	36 90 24	48 90 19	36 90 19	48 90 19	

MISCELLANEOUS CABINETS

ALL MODEL NUMBERS WITH MFGRS NOTED	201 & 203 BIOLOGY			
PLAN NOTATION	EYEWASH	GOG		
MANUFACT URER AND DESCRIPTIO N	BRADLEY PORTABLE ON-SITE GRAVITY-FED EYEWASH AND ON-SITE WASTE CART W/56 GALLON CAPACITY. ANSI Z358.1 COMPLIANT.	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED		
MODEL NUMBER	S19-921 & S19-399	52192		
SIZE	22W X 19D X 24H 30W X 22D X 33H	24 W X 9-1/2 D X32 H		

BASE CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	200 STORAGE		
DIM.: W X H X D	BAS.7.2	BAS.7.1	
COUNTER TOP, BACKSPLASH, END SPLASH	ESO2 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	
DESCRIPTION	SINK BASE, FALSE FRONT, DOORS, REMOVABLE BACK	BASE CABINET, LEFT HINGE DOOR, DRAWER	
MODEL NUMBER	41012	41436	
SIZE	36 35 23	15 35 23	
GAS		NO	
LINE SINK	(1) 52D55 EPOXY, 26X16X11" DEEP	NO	
FAUCET	DECK MOUNTED MIXING FAUCET, SWING SPOUT (1) 52248-9	NO	

WALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	200 Storage				
DIM.: W X H X D	WAL.7.1	WAL.3.1	WAL.7.2		
DESCRIPTION	DISPLAY GLASS, (1) LH DOOR, (2) SHELVES	DISPLAY GLASS DOOR, (1) RH DOOR, (2) SHELVES	OPEN STORAGE, NO DOORS		
MODEL NUMBER	45131	45130	45101		
SIZE	15 36 14	24 36 14	36 18 14		

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	204 BIOLOGY								
DIM.: W X H X D	ISL.4.1	ISL.4.2	BAS.4.1	BAS.4.2	BAS.4.3	BAS.4.4			
COUNTER TOP, BACKSPLASH, END SPLASH	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ESO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ESO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ESO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK			
DESCRIPTION	OCTAGON STUDENT ISLAND NO CABINETS	ADA OCTAGON STUDENT ISLAND NO CABINETS	DRAWER/DOOR, (2) DRAWER, (2) DOORS, CENTER DIVIDER, (2)	DRAWER/DOOR, (1) DRAWER, (1) LH DOOR, (1) ADJ. SHELVES	TRAY STORAGE, (15) SA901 MOLDED TRAYS	DRAWER/DOOR, (1) DRAWER, (1) RH DOOR, (1) ADJ. SHELVES			
MODEL NUMBER	NUMBER 49448 MOD 49448 MOD 41443 41352 41274		41274	41435					
SIZE	48 36 48	48 33 48	36 35 19	30 35 17 EXTEND COUNTER	48 29 23	12 35 23			
				24" DEEP					
ADDITIONAL MODEL NUMBER									
SIZE									
DESCRIPTION									
ADDITIONAL MODEL NUMBER									
SIZE									
POWER, EACH	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).							
GAS	NO	NO	NO	NO	NO	NO			
SINK IN EXTENSION OR ISLAND	NO	NO	NO	NO	NO	NO			
END SINK	NO	NO	NO	NO	NO	NO			
LINE SINK	NO	NO	NO	NO	NO	NO			
FAUCET	NO	NO	NO	NO	NO	NO			

ALL MODEL	
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ALL MODEL IUMBERS ADVANTAGE ICIENTIFIC BY ITEVENS	204 BI	204 BIOLOGY			
DIM.: W X H X D	WAL.1.6	WAL.1.1	WAL.4.1		
DESCRIPTION	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	REAGENT III WALL SHELVING WITH ACID RESISTANT PHENOLIC SHELVES, WHITE		
IODEL NUMBER	45136	45136	45432		
IZE	36 36 14	30 36 14	42 48 14		

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	205 CHEMISTRY								
DIM.: W X H X D	WAL.1.5	WAL.1.6	WAL.2.1	WAL.2.2	CUSTOM	FH.1			
DESCRIPTION	SOLID DOOR, (1) RH DOOR, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	OPEN CABINET, NO DOORS, 3 SHELVES	FUME HOOD HIGH SIGHT LINE GEN II VERTICAL SASH, WITH DIGIAL AIRFLOW MONITOI AND GAS CONNECTION. FAN AND DUCTWORK NOT INCLUDED			
MODEL NUMBER	45120	45136	45182	45182	0	51835 48GAS REQUIRED			
SIZE	12 36 14	36 36 14	48 36 14	42 36 14	24 36 8	48 57.25 33.75			

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	204 BIOLOGY						
DIM.: W X H X D	TAL.1.1	TAL.2.3	TAL.4.1				
DESCRIPTION	TEACHER WARDROBE CABINET, LOCKED DOORS, DIVIDER, LEFT - (5) ADJ. SHELVES, RIGHT- ADJ. SHELF, WARDROBE HOOK, MIRROR.	MICROSCOPE CABINET, DISPLAY GLASS DOORS, LOCKING, 20 COMPARTMENTS	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS				
MODEL NUMBER	47618	47733	47342				
SIZE	36 90 23	36 90 19	36 90 19				

205 CHEMISTRY									
TAL.1.6									
) TRAY STORAGE, (48) SA902 MOLDED TRAYS, NO DOORS									
47270 & 25824									
36 84 23 & 36 6 23									

ALL MODEL NUMBERS WITH MFGRS NOTED	ALL MODEL NUMBERS WITH MFGRS NOTED 204 BIOLOGY		ALL MODEL NUMBERS WITH MFGRS NOTED		205 CHE	EMISTRY	
PLAN NOTATION	COAT	GOG	PLAN NOTATION	EYEWASH SHOWER	GOG	FLAM.	ACID
MANUFACTURER AND DESCRIPTION	GOWNRITE COAT RACK SIX HOOKS, STAINLESS STEEL	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED	MANUFACTURER AND DESCRIPTION	ADVANTAGE SCIENTIFIC ADA ACCESSIBLE BARRIER FREE EYE / FACE WASH AND SHOWER	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED	ADVANTAGE SCIENTIFIC FLAMMABLE CABINET, STAND ALON, YELLOW, TWO DOORS, 45 GAL., LOCK	ADVANTAGE SCIENTIFIC ACID/CORROSIVES CAB., STAND-ALONG, 30 GAL, SELF CLOSING DOORS, LEVER HANDLE, LOCK
MODEL NUMBER	GAT-LAB-CT-HOOKS-244-WM	52192	MODEL NUMBER	52GBF1909	52192	52125FY	52122AB
SIZE	24W X 4D X 4H	24 W X 9-1/2 D X32 H	SIZE	VARIABLE	24 W X 9-1/2 D X32 H	43W X 18D X 65H	43W X 18D X 44H

TALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	200 STORAGE					
DIM.: W X H X D	TAL.7.2	TAL.1.3	TAL.7.1			
DESCRIPTION	CHEMICAL STORAGE, (2) HINGED DOORS, CENTER DIVIDER, (10) A-TECH SHELVE W/ FRONT RETAINING LIP, INCLUDE SOFFIT EXTENSION TO MEET HEIGHT OF 90". PROVIDE LOCK.	"DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS"	DISPLAY GLASS DOORS, CENTER DIVIDER, (10) ADJ. SHELVES			
MODEL NUMBER	47737 & 25824	47342	47137			
SIZE	36 84 23 & 36 6 23	36 90 23	36 90 24			

MISCELLANEOUS CABINETS

ALL MODEL NUMBERS WITH MFGRS NOTED	200 STORAGE						
PLAN NOTATION	FLAM	COR. CAB.	EYEWASH				
MANFACTURER AND DESCRIPTION	SCIMATCO, FLINN SCIENTIFIC, FLAMMABLE CABINET, STACKING, YELLOW, TWO DOORS, LOCK CYLINDER W/KEYS	SCIMATCO, FLINN SCIENTIFIC, CORROSIVE CABINET, STACKING, BLUE, TWO DOORS, PADLOCK W/ KEYS	BRADLEY PORTABLE ON-SITE GRAVITY-FED EYEWASH AND ON-SITE WASTE CART W/56 GALLON CAPACITY. ANSI Z358.1 COMPLIANT.				
MODEL NUMBER	SC 8079	SC 8083	S19-921 & S19-399				
SIZE	30'W X 18.5"D X 32.5"H	30'W X 18.5"D X 32.5"H	"22W X 19D X 24H 30W X 22D X 33H"				

				205 CHE	EMISTRY				
EXT.1.1	EXT.1.2 (ADA)	ISL.1	LIN.1.1	LIN.1.2	LIN.1.3 (ADA)	BAS.1.1	BAS.1.2	FH BAS.1	DEM.1
2 - EPOXY, BLACK EL MARINE EDGE, DRIP, 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 1" THICK	ESO2 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ESO2 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES02 - EPOXY, BLACI BEVEL MARINE EDGI DRIP, 4" H BACKSPLASH 1" THICK
PLAIN APRON DR AND DRAWER	PLAIN APRON DOOR AND DRAWER	PLAIN APRON DOOR AND DRAWER	SINK BASE, FALSE FRONT, DOORS, REMOVABLE BACK	PERIMETER BASE INSERT, APRON HEIGHT	SINK BASE, ADA, ACCESS PANEL, POCKET DOORS	DRAWER BASE, 5 DRAWER	(2) DOORS, (1) ADJ. SHELF	ADA HEIGHT, POWDER COATED STEEL W/ CHASE EACH SIDE	INSTRUCTOR ISLAND W/ GAS AND WATE
48809 MOD O SINK WITHIN TOP. M GROUP VARIES.	48815 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48703 MOD TRIM GROUP VARIES.	41012	91026	41472	41054	41129	51930	48305
66 36 42	66 33 42	66 36 42	48 35 23	42 24 08	42 32 23	42 35 23	30 35 14	48 32 24	84 36 29
					AT RIGHT SIDE OF CABINET, CABINET DEPTH PEDESTAL, LEFT FINISHED END, WIRE CHASE CUTOUT				INSTRUCTOR ISLANI EXTENSION
					10913.000				48351
					01 35 23				46 30 29
PE CHASE FILLER	PIPE CHASE FILLER (ADA)								PROVIDE (2) KNEE SPACES W/ REMOVA ACCESS PANEL
(2) 91035	(2) 91035								
32 35 00	32 33 00								
RON MOUNTED DUPLEX 52366D DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).							(1) DUPLEX GFI 52366G
ECK MOUNTED (2) DBLE, 180 DEGREES 52208	DECK MOUNTED (2) DBLE, 180 DEGREES 52208	W/ FAUCET							52206 STANDARD, SINGLE GAS VALVE
NO	NO	EPOXY ROUND CUP SINK (1) 52TS07, 6X6X6 WITH OUTLET AND STOPPER							52D05 14X10X6D W OUTLET AND STOPPER
NO	NO	NO							NO
NO	NO	NO DECK MOUNTED COMBINATION NON-MIXING FAUCET W/GAS	(1) 52A55 EPOXY, 26X16X5.8 DEEP DECK MOUNTED MIXING FAUCET, SWING SPOUT		(1) 52A55 EPOXY 26X16X5.8 DEEP DECK MOUNTED MIXING FAUCET, SWING SPOUT				ND 52244-6 WB HW-CW GOOSENEC W/ VB, SERRATED TI
		(1) 52286-6 CW (1) 52286-6 HW	(1) 52248-9		(1) 52248-9WB (ADA)				

LAB. CASEWORK TO THE PROVIDED WITH LOCK/KEY IN THE FOLLOWING LOCATIONS. ALL TEACHER WARDROBE CABINETS - TAL.1.1, ALL MICROSCOPE CABINETS - TAL.2.3, TAL.3.2 ALL FLAMMABLE STO. CAB. - FLAM. ALL CORROSIVE CHEMICLE CAB. - COR. CAB.





BASE CABINETS

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ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS		20	7 GENER	AL AND A	STRONON	ΛY	
DIM.: W X H X D	ISL.6.1	ISL.6.2 (ADA)	DEM.2	BAS.4.1	BAS.6.1	BAS.6.2	BAS.6.3
COUNTER TOP, BACKSPLASH, END SPLASH	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ESO2 - EPOXY, BLACK BEVEL MARINE EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ESO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, NO BACK SPLASH 1" THICK
DESCRIPTION	PENTAGON STUDENT ISLAND	PENTAGON STUDENT ISLAND	INSTRUCTOR ISLAND, H&C WATER, NO GAS.	DRAWER/DOOR, (2) DRAWER, (2) DOORS, CENTER DIVIDER, (2) ADJ. SHELVES	BASE CABINET, RIGHT HINGE DOOR	BASE CABINET, LEFT HINGE DOOR	BASE CABINET, NO DOOR, ADJUSTABLE SHELF.
MODEL NUMBER	49481 MOD MOD. FOR DEVICES AND CABINETS	49481 MOD MOD. FOR DEVICES AND CABINETS	48305 MODIFIED FOR DEVICES	41443	41120	41121	41101
SIZE	48 36 48	48 33 48	84 36 29	36 35 19	24 35 23	24 35 23	36 29 14
DESCRIPTION	END CLOSURE @ SINK	END CLOSURE @ SINK	INSTRUCTOR ISLAND EXTENSION				
ADDITIONAL MODEL NUMBER	(2) 91035	(2) 91035	48351.000				
SIZE			46 30 29				
DESCRIPTION			PROVIDE (2) KNEE SPACES W/ REMOVAL ACCESS PANEL				
ADDITIONAL MODEL NUMBER							
SIZE							
POWER, EACH	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	(1) DUPLEX GFI 52366G				
GAS	NO	NO	NO	NO	NO	NO	NO
SINK IN EXTENSION OR ISLAND	NO	NO	52D05 14X10X6D W/ OUTLET AND STOPPER	NO	NO	NO	NO
END SINK	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	NO	NO	NO	NO	NO
LINE SINK	NO	NO	NO	NO	NO	NO	NO
FAUCET	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9WB	52244-6 WB HW-CW GOOSENECK W/ VB, SERRATED TIP	NO	NO	NO	NO

WALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	207 GENERAL AND ASTRONOMY			
DIM.: W X H X D	WAL.1.6	WAL.1.2	WAL.1.3	CUSTOM
DESCRIPTION	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (1) LH DOOR, (2) SHELVES	DISPLAY GLASS, (1) RH DOOR, (2) SHELVES	OPEN CAB, NO DOOR, 2 SHELVES
MODEL NUMBER	45136	45131	45130	0
SIZE	36 36 14	24 36 14	24 36 14	22 36 8

TALL CABINETS

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	207 GENERAL AND ASTRONOMY									
DIM.: W X H X D	TAL.1.1	TAL.1.2	TAL.1.3	TAL.6.1						
DESCRIPTION	TEACHER WARDROBE CABINET, LOCKED DOORS, DIVIDER, LEFT - (5) ADJ. SHELVES, RIGHT- ADJ. SHELF, WARDROBE HOOK, MIRROR.	BLIND CORNER, RH DOOR AT LEFT SIDE, (5) SHELVES	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS						
MODEL NUMBER	47618	47200	47342	47342						
SIZE	36 90 24	48 90 23	36 90 23	36 90 19						

MISCELLANEOUS CABINETS

ALL MODEL NUMBERS WITH MFGRS NOTED	207 GENERAL AND ASTRONOMY	
PLAN NOTATION	EYEWASH	GOG
MANUFACTURER AND DESCRIPTION	BRADLEY PORTABLE ON-SITE GRAVITY-FED EYEWASH AND ON-SITE WASTE CART W/56 GALLON CAPACITY. ANSI Z358.1 COMPLIANT.	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED
MODEL NUMBER	S19-921 & S19-399	52192
SIZE	22W X 19D X 24H 30W X 22D X 33H	24 W X 9-1/2 D X32 H

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS			20	08 BIOLO	GY			ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	209	PHYSICA	L SCIENCI	E (P.R. PU	LLOUT RE	PLACEME	ENT)
DIM.: W X H X D	EXT.2.1	EXT.2.2 (ADA)	LIN.2.1	LIN.2.2	LIN.2.3 (ADJACENT TO ADA STATION)	BAS.3.1	DEM.2	DIM.: W X H X D	EXT.2.1	EXT.2.2 (ADA)	LIN.2.1	LIN.2.2	LIN.2.3 (ADJACENT TO ADA EXTENSION)	BAS.2.1	DEM.1
COUNTER TOP, BACKSPLASH, END SPLASH	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ESO02 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ESO02 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ESOO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ESOO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ESO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACKSPLASH 1" THICK	COUNTER TOP, BACKSPLASH, END SPLASH	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 1" THICK	ESOO2 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ESO02 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES002 - EPOXY, BLACK BEVEL EDGE, DRIP, 4" H BACK SPLASH 1" THICK	ES02 - EPOXY, BLACK BEVEL MARINE EDGE DRIP, 4" H BACKSPLAS 1" THICK
DESCRIPTION	PLAIN APRON TWO DOORS	PLAIN APRON TWO DOORS	REAR CHASE LINE CABINETS, FILLER, CABINETS W/DOORS	BASE CABINET, LEFT HINGE DOOR, CHASE BEHIND	BASE CABINET, RIGHT HINGE DOOR, CHASE AT LEFT SIDE WITH FILLER	BASE CABINET, RIGHT HINGE DOOR	INSTRUCTOR ISLAND, H&C WATER, NO GAS.	DESCRIPTION	PLAIN APRON TWO DOORS	PLAIN APRON TWO DOORS	REAR CHASE LINE CABINETS, FILLER, CABINETS W/DOORS	BASE CABINET, LEFT HINGE DOOR, CHASE BEHIND	BASE CABINET, LEFT HINGE DOOR, CHASE AT LEFT SIDE WITH FILLER	BASE CABINET, RIGHT HINGE DOOR, CHASE BEHIND	INSTRUCTOR ISLAND V GAS AND WATER
MODEL NUMBER	48802 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48817 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48903	41121	41120	41120	48305 MODIFIED FOR DEVICES	MODEL NUMBER	48802 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48817 MOD NO SINK WITHIN TOP. TRIM GROUP VARIES.	48902	41121	41121	41120	48305
SIZE	66 36 42	66 33 42	90 36 24	24 35 17	17 35 24	18 35 24	84 36 29	SIZE	66 36 42	66 33 42	90 36 24	24 35 17	17 35 24	17 35 17	84 36 29
DESCRIPTION	ADDITIONAL WOOD LEGS AND CHASE FOR SINK END FILLER,	ADDITIONAL WOOD LEGS AND CHASE FOR SINK END FILLER,		PERIMETER BASE INSERT, APRON HEIGHT	PERIMETER BASE INSERT, FULL HEIGHT		INSTRUCTOR ISLAND EXTENSION	DESCRIPTION	ADDITIONAL WOOD LEG FOR SINK END FILLER, (2) 91035	ADDITIONAL WOOD LEG FOR SINK END FILLER. (2) 91035		PERIMETER BASE INSERT, APRON HEIGHT	PERIMETER BASE INSERT, FULL HEIGHT		INSTRUCTOR ISLAND EXTENSION
ADDITIONAL	(2) 91035	(2) 91035					48351	ADDITIONAL MODEL NUMBER	91005	91005		91026 MOD FOR WIDTH	91025 MOD FOR WIDTH		48351
	2 25 2	2 22 2		24.24.00	24.24.08		46.20.20	SIZE	2 35 2	2 33 2		24 24 08	24 24 08		46 30 29
SIZE	2 35 2	2 33 2		24 24 08	24 24 08		46 30 29								
DESCRIPTION	PIPE CHASE FILLER	PIPE CHASE FILLER (ADA))	BASE CABINET, RIGHT HINGE DOOR, CHASE AT RIGHT SIDE WITH FILLER	BASE CABINET, LEFT HINGE DOOR, CHASE BEHIND		PROVIDE (2) KNEE SPACES W/ REMOVAL	DESCRIPTION	PIPE CHASE FILLER	PIPE CHASE FILLER (ADA)		BASE CABINET, RIGHT HINGE DOOR, CHASE AT RIGHT SIDE WITH FILLER	BASE CABINET, RIGHT HINGE DOOR, CHASE BEHIND		PROVIDE (2) KNEE SPACES W/ REMOVAI ACCESS PANEL
ADDITIONAL MODEL NUMBER	(2) 91035 MOD FOR HT.	(2) 91035 MOD FOR HT.		41120.000	41121.000			MODEL NUMBER	(2) 91035	(2) 91035		41120	41120		
SIZE	32 35 00	32 33 00		17 35 24	24 35 17			SIZE	32 20 00	32 18 00		17 35 24	24 35 17		
POWER, EACH	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GFCI).	NO	NO	NO		(1) DUPLEX GFI 52366G	POWER, EACH	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GECI)	APRON MOUNTED (3) DUPLEX 52366D (1) DUPLEX 52366G (GECI)	NO	NO	NO		(1) DUPLEX GFI 52366G
GAS	NO	NO	NO	NO	NO	NO	NO	GAS	NO	NO	NO	NO	NO	NO	52206 STANDARD,
SINK IN EXTENSION OR ISLAND	NO	NO	NO	NO	NO	NO	52D05 14X10X6D W/ OUTLET AND STOPPER	SINK IN EXTENSION OR ISLAND	NO	NO	NO	NO	NO	NO	SINGLE GAS VALVE 52D05 14X10X6D W/ OUTLET AND STOPPE
	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	NO	NO	NO	NO	NO	END SINK	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	(1) CUSTOM WOOD STAND FOR EPOXY SINK 52E46 22WX13LX12D WITH OUTLET AND STOPPER	NO	NO	NO	NO	NO
			NU		NU	NU	NU	LINE SINK	NO	NO	NO	NO	NO	NO	NO
FAUCET	MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9	MIXING FAUCET, H&C WATER, SWING SPOUT (1) 52248-9WB (ADA)	NO	NO	NO	NO	52244-6 WB HW-CW GOOSENECK W/ VB, SERRATED TIP	FAUCET	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT	DECK MOUNTED MIXING FAUCET, H&C WATER, SWING SPOUT	NO	NO	NO	NO	52244-6 WB HW-CW GOOSENECK W/ VB, SERRATED TIF

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	20	08 BIOLOG	δY		
DIM.: W X H X D	WAL.2.1	WAL.1.6	WAL.8.1		
DESCRIPTION	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS DOOR, (1) RH DOOR, (2) SHELVES		
MODEL NUMBER	45182	45136	45130		
SIZE	48 36 14	36 36 14	18 36 14		

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	20	08 BIOLOGY					
DIM.: W X H X D	TAL.1.1	TAL.3.1	TAL.3.2				
DESCRIPTION	TEACHER WARDROBE CABINET, LOCKED DOORS, DIVIDER, LEFT - (5) ADJ. SHELVES, RIGHT- ADJ. SHELF, WARDROBE HOOK, MIRROR.	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS	MICROSCOPE CABINET, DISPLAY GLASS DOOR, 15 COMPARTMENTS, LOCK				
MODEL NUMBER	47618	47342	47730				
SIZE	36 90 24	36 90 23	24 90 19				

ALL MODEL NUMBERS WITH MFGRS NOTED	208 BIOLOGY
PLAN NOTATION	GOG
MANUFACTURER AND DESCRIPTION	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED
MODEL NUMBER	52192
SIZE	24 W X 9-1/2 D X32 H

ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	2 P.R.	09 PHYSIC	AL. SCIENC REPLACEM	E ENT	
DIM.: W X H X D	WAL.1.6	WAL.2.1	WAL.2.3	WAL.5.1	
DESCRIPTION	DISPLAY GLASS, (2) DOORS, (2) SHELVES	DISPLAY GLASS, (2) DOORS, (2) SHELVES	BLIND CORNER, DISPLAY GLASS, (1) RH DOOR, (2) SHELVES	DISPLAY GLASS DOOR, (1) LH DOOR, (2) SHELVES	
MODEL NUMBER	45136	45182	45202	45131	
SIZE	36 36 14	48 36 14	33 36 14	15 36 14	

·										
ALL MODEL NUMBERS ADVANTAGE SCIENTIFIC BY STEVENS	209 PHYSICAL. SCIENCE P.R. PULLOUT REPLACEMENT									
DIM.: W X H X D	TAL.1.1	TAL.2.2	TAL.2.3	TAL.4.1						
DESCRIPTION	TEACHER WARDROBE CABINET, LOCKED DOORS, DIVIDER, LEFT - (5) ADJ. SHELVES, RIGHT- ADJ. SHELF, WARDROBE HOOK, MIRROR.	DISPLAY GLASS DOORS, CENTER DIVIDER, (10) ADJ. SHELVES	MICROSCOPE CABINET, DISPLAY GLASS DOORS, 20 COMPARTMENTS, LOCKS	DISPLAY GLASS, (2) SLIDING DOORS, (6) ADJ. SHELVES, (3) FULL LENGTH DRAWERS						
MODEL NUMBER	47618	47137	47733	47342						
SIZE	36 90 23	42 90 19	36 90 19	36 90 19						

ALL MODEL NUMBERS WITH MFGRS NOTED	209 PHYSICA P.R. PULLOUT R	AL. SCIENCE REPLACEMENT
PLAN NOTATION	EYEWASH SHOWER	GOG
MANUFACTURER AND DESCRIPTION	ADVANTAGE SCIENTIFIC ADA ACCESSIBLE BARRIER FREE EYE / FACE WASH AND SHOWER	ADVANTAGE SCIENTIFIC GERMICIDAL GOGGLE CABINET REQUIRE DUPLEX RECEPTACLE. CAPACITY 40 GOGGLES, WALL MOUNTED
MODEL NUMBER	52GBF1909	52192
SIZE	VARIABLE	24 W X 9-1/2 D X32 H











DRAWING KEY NOTES

- 2.1.1 CONCRETE MASONRY: REMOVE CONCRETE MASONRY WALL IN ITS ENTIRETY.
- 2.1.2 <u>CONCRETE MASONRY</u>: REMOVE CONCRETE MASONRY WALL AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. TOOTH IN NEW MASONRY, PROVIDE NEW STRUCTURAL LINTEL WHERE INDICATED.
- 2.1.3 VISION PANELS, DOORS AND FRAMES: REMOVE EXISTING DOOR AND FRAME, SALVAGE HARDWARE,
- 2.1.5 <u>STUD WALL CONSTRUCTION</u>: REMOVE WALL IN ITS ENTIRETY TO ACCOMMODATE NEW CONSTRUCTION.
- 2.2.1 EXISTING DRY MARKER / TACK / DISPLAY BOARDS: WALL OR CASEWORK MOUNTED, TO BE REMOVED AND DISPOSED OF. REMOVE ANCHORS, ADHESIVES, REPAIR WALL CONSTRUCTION,
- 2.2.2 EXISTING WALL MOUNTED MONITOR: TO BE REMOVED, SALVAGED AND TURNED OWNER TO THE OWNER. REMOVE ANCHORS, REPAIR WALL CONSTRUCTION, PREPARE TO NEW FINISHES.
- 2.2.3 EXISTING LOOSE MATERIALS: TO BE REMOVED BY THE OWNER.
- EXISTING MISC. EQUIP: TO BE REMOVED INCLUDING FIRST AID CABINET, BLANKET CABINET, GOGGLE CABINETS, 2.2.4 EXISTING MISC. EQUIP: TO BE REMOVED INCLUDING FIRST AIL SOAP AND TOWEL DISPENSERS AND LAB. COAT STORAGE.
- 2.3.1 EXISTING LAB. CASEWORK: TO BE REMOVED. ALL EX'G COUNTERS, BASE, WALL, AND TALL CABINETS. INCLUDED ARE EX'G SINKS, DOMESTIC WATER, SANITARY, RECEPTACLES, AND GAS FITTINGS WHICH ARE INTEGRATED WITH THE LAB. CASEWORK. SEE MPE DRAWINGS FOR ADDITIONAL INFORMATION ON PLUMBING AND ELECTRICAL DEMO. WORK.
- 2.3.2 EXISTING EYEWASH AND SHOWER: TO BE REMOVED. CAP. ALL LINES. REMOVE EX'G FL. DRAIN.
- 2.3.3 EXISTING FUME HOOD: REMOVE EXISTING FUME HOOD, SUPPORT CABINETS, DUCTS, AND EXHAUST THROUGH ROOF. REMOVE VENTING THROUGH ROOF. PATCH IN ACCORDANCE WITH ROOF MEGR'S REQUIREMENTS. SEE MPE DRAWINGS FOR ADDITIONAL INFORMATION ON PLUMBING AND ELECTRICAL DEMO. WORK.
- 2.4.1 EXISTING FLOOR FINISHES: REMOVAL ALL EX'G FLOOR FINISH AND WALL BASE.
- 2.4.2 EXISTING ASBESTOS TILE FLOOR: REMOVAL SHALL BE VIA A SEPARATE CONTRACT.

22.1.1 PLUMBING DEMOLITION: REMOVE PLUMBING SYSTEMS, DEVICES, AND ASSOCIATED PIPING AND FIXTURES INDICATED. REFER TO THE CONTRACT PLUMBING DRAWINGS.

- 23.1.1 <u>MECHANICAL DEMOLITION</u>: REMOVE MECHANICAL SYSTEMS INCLUDING MECHANICAL EQUIPMENT, DUCTWORK, DIFFUSERS AND ASSOCIATED PUMPS AND PIPING INDICATED. REFER TO THE CONTRACT MECHANICAL DRAWINGS.
- ELECTRICAL DEMOLITION: REMOVE ELECTRICAL DEVICES INCLUDING RECEPTACLES, DISCONNECTS, LIGHTING







OM NAME		FL00	R			BASE WALL				CEILING					
	MAT.	FINISH	TYPE	COLOR	MAT.	HT.	COLOR	MAT.	FINISH	COLOR	MAT.	FINISH	COLOR	HT.	SPECIFIC" FO
E STORAGE	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
ENCE RM	CONC.	VCŤ	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
Ť	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
Ť	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
TRY	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
TRONOMY	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	
Ť	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-2	PRE-FIN	WHITE	SEE RCP	
-	CONC.	VCT	N/A	BY OWNER	VCB	4" \$ 6"	BY OWNER	CMU	SP. COATING	BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP	

	DOOR SCHEDULE - LENAPE HIGH SCHOOL SCIENCE LABS															
OR	FRAME	FRAME		DO	OR		FRAME		GLASS		DETAIL		THRHLD	HRDWR.	REMARKS	
ΈΕ	TYPE	DEPTH	MAT.	FIN.	LABEL	MAT.	FIN.	LABEL		HEAD	JAMB	SILL		SET		
٧	1	4-7/8"	S.C. WD	†PF	N/A	H.M.	PTD	N/A	G-A	7H/A1.2	TJ/A1.2	76/A1.2	N/A	HDWRE 1.0	DOOR FIN. TO MATCH EX'G, PATCH SURROUNDING COM	
N	1	4-7/8"	5.C. WD	TPF	N/A	H.M.	PTD	N/A	G-A	7H/A1.2	7J/A1.2	75/A1.2	N/A	HDWRE 1.0	DOOR FIN. TO MATCH EX'G, PATCH SURROUNDING COM	
	1			•	•		•	1				G 17	ING NOTES,			

INFILL EX'G ROOF OPENINGS. SEE NOTE 5 M-101 SEE 4/5-200, SIM. TO, FOR STRUCTURAL INFILL.

<u>LEGEND</u>

C L L L	EX'G EF & DUCT PENETRATION
	EX'G ROOFTOP RELIEF VENT
	EX'G WALKWAY AREA WITH COL COLOR SLIP REGISTANT COATI
	EX'G ROOFTOP EXHAUST FAN
	NEW ROOFTOP EXHAUST FAN
	EX'G ROOFTOP EXHAUST FAN 1 REMOVED AND NEW E.F. IN ITS
0	EX'G VENT STACK, TO BE REMO
*	EX'G ROOF DRAIN AND SUMP

EX'G E.F. & DUCT PENETRATION EX'G ROOFTOP RELIEF VENT EX'G WALKWAY AREA WITH CONTRASTING COLOR SLIP RESISTANT COATING EX'G ROOFTOP EXHAUST FAN NEW ROOFTOP EXHAUST FAN

EX'G ROOFTOP EXHAUST FAN TO BE REMOVED AND NEW E.F. IN ITS PLACE EX'G VENT STACK, TO BE REMOVED.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE ROOF AND VERIFYING THE CONDITION OF THE EXISTING ROOF MEMBRANE AND ROOF DAMAGE, INCLUDING BUT NOT LIMITED TO CUTS, TEARS, AND FISSURES IN LOCATION OF NEW WORK. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING AND

- VERIFYING THE LOCATION AND EXTENT OF ROOF MOUNTED EQUIPMENT, PIPING, CONDUIT AND THEIR ASSOCIATED SUPPORTS. 3. THE SCOPE OF THE WORK SHALL INCLUDE CUTTING AND PATCHING OF EX'G ROOF STRUCTURE AND FINISH ROOFING SYSTEM INCLUDING
- DECKING, INSULATION , MEMBRANE AND ROOF COATING AS REQUIRED FOR DEMO. OF EX'G EQUIPMENT AND SUPPORTS AND PROVISIONS OF NEW EQUIPMENT AND SUPPORTS.
- 4. THE SCOPE OF THE WORK SHALL INCLUDE ROOF COATING RESTORATION AT: A. ALL NEW CURBS AND REUSED EX'G CURBS
- B. NEW VENT PENETRATIONS AND RE-WORKED PENETRATIONS.
- C. NEW ROOFED OVER AREAS OF REMOVED EQUIPMENT.

ARMSTRONG 51880 MARASCHINO STANDARD EXCELON

TAND

_EXTEND SINK BACKSPLASH TO

DRAWING KEY NOTES

DEMOLITION NOTES:

- CEILINGS: REMOVE I'XI' ACOUSTICAL CEILING SYSTEMS AS REQUIRED TO ACCOMMODATE NEW CEILING SYSTEMS. REMOVE CEILING MOUNTED LIGHTING, FIXTURES AND EQUIPMENT. INCLUDE REMOVAL OF ALL VENTS, DIFFUSERS AND SIM. HVAC DEVICES, AND ANY ELECTRICAL SYSTEMS AND 2.5.1 DEVICES.
- CEILINGS: REMOVE 2'X4' ACOUSTICAL CEILING SYSTEMS IN THEIR ENTIRETY INCLUDING FINISH 2.5.2 PANELS, GRID, SUSPENSION MEMBERS, AND CEILING MOUNTED LIGHTING, FIXTURES AND EQUIPMENT. INCLUDE REMOVAL OF ALL VENTS, DIFFUSERS AND SIM. HVAC DEVICES, AND ANY ELECTRICAL SYSTEMS AND DEVICES.
- CEILINGS: REMOVE HARD SURFACE CEILINGS THROUGHOUT, INCLUDING UNEXPOSED HARD CEILING. 2.5.3 INCLUDE ENTIRE SYSTEM INCLUDING FINISH SURFACE, SUPORTS AND HANGERS. INCLUDE REMOVAL OF ALL VENTS, DIFFUSERS AND SIM. HVAC DEVICES, AND ANY ELECTRICAL SYSTEMS AND DEVICES.
- 2.5.4 SOFFIT: REMOVE EX'G SOFFIT SYSTEM AS REQUIRED FOR INSTALLATION OF NEW SOFFIT SYSTEM.
- 2.5.5 <u>SOFFIT:</u> REMOVE EX'G SOFFIT SYSTEM IN TOTAL.
- 2.5.6 <u>CEILING MOUNT: REMOVE EX'G CEILING MOUNTED (C.M.) PROJECTOR PLATE.</u> OWNER TO REMOVE PROJECTOR. CEILING MOUNT MAY BE REUSED IF IN LIKE NEW CONDITION.

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		2-1					
	8	-67		$\begin{pmatrix} 3\\ \Delta 52 \end{pmatrix}$		$\frac{1}{1}$	
						Γ	
_					0		

KEY - REFLECTED CEILING PLAN

<u>CEILING TILE SIZES</u>

- AP-1 = 24" x 48"
- 2' x 4' LIGHT FIXTURE
- 2' x 2' LIGHT FIXTURE

-DESIGNATES CEILING FINISHES TO REMAIN, CEILING FINISHES ARE TO BE MAINTAINED EXG. AND PROTECTED. PATCH AND REPAIR EX'G UNFINISHED CONSTRUCTION. THE GENERAL EXG. CONSTRUCTION CONTRACTOR SHALL REPLACE ALL EXISTING CEILINGS DAMAGED BY CONSTRUCTION OF THEIR WORK INCLUDING THE DAMAGES RESULTING FROM WORK

PERFORMED BY OTHER TRADES, TYPICAL

GWB M-E. - DESIGNATES HEIGHT OF NEW GWB TO MATCH EXISTING CEILING HEIGHT

CEILING MOUNT FOR PROJECTOR. PROVIDE 2' X 2' PROJECTOR MOUNT PLATE BY PEERLESS AS SPECIFIED. IF IN LIKE NEW CONDITION, EXISTING CEILING MOUNTED PROJECTOR PLATES MAY BE SALVAGED AND REINSTALLED. EXTENSION POLES ARE TO BE PROVIDED BY THE OWNER.

PROJECT NORTH NORTH

	PROJECT CODES		
APPLICABLE	CODES		A.F.
internation Rehabilitat National Ei	IAL BUILDING CODE — NJ EDITION 2021 ION SUBCODE — NJAC 5:23—6 LECTRIC CODE 2020		ADC C., B.C.
N	MISC. DWG. SYMBOLS		Disc DWG E
•	POINT OF CONNECTION		EWC ETR
•			G., GEN
-	KEYED NEW WORK NOTE		GFC K.E.
_			KW KVA N.E.
	SYMBOLS		PVC R
÷	DUPLEX RECEPTACLE 125V 20A - MOUNTED 18" A F.E. UNLESS OTHERWISE NOTED		RE S
Ē	PEDESTAL MOUNTED QUAD RECEPTACLE (GFI) LEGRAND #LBP2-LBP-MAAP-LBPB4A OR APPROVED EQUAL		S _{MV} TVS
▼	PROVIDE, INSTALL, TERMINATE AND TEST SINGLE CAT 6 WIRE TO BE RUN TO DOUBLE GANG SURFACE MOUNTED BACK BOX W/ SINGLE GANG FLANGE W/ SURFACE MOUNTED WIREMOLD 700 SERIES RACEWAY RAN UP TO 6" ABOVE DROP CEILING		U.O. UG, W/
▼ 2	PROVIDE, INSTALL, TERMINATE AND TEST SINGLE CAT 6 WIRE TO BE RUN TO DOUBLE GANG SURFACE MOUNTED BACK BOX W/ SINGLE GANG FLANGE W/ SURFACE MOUNTED WIREMOLD 700 SERIES RACEWAY RAN UP TO 6 ABOVE DOP CEILING. DEVICES TO BE INSTALLED		WG WP
Ø	JUNCTION BOX		PH V
S	SINGLE POLE SWITCH - MOUNTED 42" AFF UNLESS NOTED OTHERWISE		4w 25A
53 50	THREE WAY SWITCH - MOUNTED 42" AFF UNLESS NOTED OTHERWISE		
50	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR		
	BRANCH CIRCUIT WIRING - CONCEALED		ELE(
	HOME RUN TO PANELBOARD		
	FUSED SAFETY SWITCH - SWITCH & FUSE SIZE AS INDICATED	1.	NOTES AI DEMOLITIO EXAMINE
30/15	TRANSFORMER		REQUIRE
	MOLDED CASE CIRCUIT BREAKER	2.	ALL WOR
	FUSE		ALTERATIO STANDARI
5	MOTOR - 5 INDICATES MOTOR HORSE POWER	3.	any equ Prior to
\bigtriangleup	DELTA CONNECTION	4.	EQUIPMEN DISPOSED
Ϋ́	GROUNDED WYE CONNECTION		REGULATI SHALL BI
O	CONNECTION TO MAIN METAL WATER PIPING	5.	PROCEDU REMOVE
(GF)	GROUND FAULT CURRENT PROTECTION		NEW WOF WITH PAN
		6.	ALL WOR PANEL S
	480/277V PANELBOARD - SURFACE MOUNTED		
	TRANSIENT VOLTAGE SUPPRESSOR - AS SPECIFIED		
	CONNECTION TO GROUND (GND). PER APPLICABLE SECTION OF ARTICLE 250. N.E.C.		
-	FIRE ALARM CONTROL PANEL, WALL MOUNTED		
MOD	MONITOR MODULE. SINGLE INPUT		
СМ	CONTROL MODULE, SINGLE POLE 120V AC RATED CONTACT		
—— K ——	KIRK KEY INTERLOCK		
\$	SMOKE DETECTOR		
Œ	HEAT DETECTOR		
\bigcirc	CARBON MONOXIDE DETECTOR		
Ľ¤¢	FIRE ALARM COMBINATION HORN/STROBE		
ĒX	FIRE ALARM STROBE		
E E	FIRE ALARM MANUAL PULL STATION		
● ^{LPU}	EMERGENCY POWER OFF STOP STATION WITH KEY RESET MOUNTED AT 42" AFF UNLESS NOTED OTHERWISE. (COORDINATE FINAL LOCATION IN ROOM OR ON INSTRUCTOR TABLE WITH ARCHITECT/DISTRICT APPROVAL)		

A[BREVIATIONS	GENERAL ELECTRICAL NOTES		м	DUNTING HEIGHT CHART - ELECTRICAL EQUIPMENT	
 CND	ABOVE FINISHED FLOOR ABOVE DROP CEILING CONDUIT	 SOME LEGEND SYMBOLS AND ELECTRICAL PROJECT NOTES MAY NOT BE USED. SEE PLANS FOR APPLICABLE DEVICES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE SPECIFICATION. 	MOUNTING HEIGHT (AFF)	EQUIPMENT SYMBOL (OR REFER TO DESCRIPTION, NEXT COLUMN)	DESCRIPTION OF EQUIPMENT (DEVICES, OUTLETS, ETC.)	REMARKS
).	BELOW CEILING DISCONNECT DRAWING	 ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE 	12'-0" U.O.N.	ю	EXTERIOR WALL MOUNTED LIGHTING FIXTURES	SEE ARCHITECTURAL FLEVATIONS
;	EXISTING ELECTRIC WATER COOLER	DETERMINED BY CONTRACTOR SUBJECT TO ENGINEER APPROVAL. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW FOLUENENT MOTORS FEE DEFORE INSTALLING CARLING AND BACEWAY IF THERE ARE ANY DISCREPANCIES	10'-0"/8'-6"	1 → + 8	BATTERY OPERATED EMERGENCY LIGHTING UNITS OR REMOTE MOUNTED HEADS	OR 1' BELOW CEILING WHICH EVER HEIGHT IS LOWER
C. GND	EXISTING TO REMAIN FIRE PROTECTION CONTRACTOR GROUND GENERATOR	 6. ALL EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED. 7. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS ON SITE. IN 	ELECTRICAL CONTRACTOR SHALL MOUNT LIGHT FIXTURES IN NEW WORK PHASE OF PROJECT TO MATCH THE EXISTING FIXTURE HEIGHT IN ROOM D104.	⊢	PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIXTURES	
I C.	GROUND FAULT CIRCUIT INTERRUPTER KITCHEN EQUIPMENT CONTRACTOR	ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. 8. ALL PANELS, WIRING DEVICES, BOXES, AND ENCLOSURES LOCATED OUTDOORS SHALL BE NEMA 3R. ALL PANELS, WIRING DEVICES, DOXES, AND ENCLOSURES LOCATED INDOORS SHALL BE NEMA 3R. ALL PANELS,	8'-4"	нsрФ.	WALL MOUNTED CLOCKS AND SPEAKERS	OR 9" BELOW CEILING WHICH EVER HEIGHT IS LOWER
0	KILOWATTS KILOVOLT AMPERES	9. ALL FUSES IN DISCONNECT SWITCHES SHOWN SHALL BE CLASS RK-1, FAST ACTING, UNLESS RECOMMENDED OTHERWISE BY THE EQUIPMENT SUPPLIER/MANUFACTURER.	7'-6"	⊢⊖	TOP OF EXIT SIGNS (NOT MOUNTED ABOVE A DOOR)	
U .	POLYVINAL CHLORIDE CONDUIT, SCHEDULE 40	10. THE ELECTRICAL CONTRACTOR TO PROVIDE MOUNTING SUPPORTS FOR ALL DISCONNECT SWITCHES. USE P1000 UNISTRUT FOR ALL INDOOR SUPPORTS AND GALVANIZED P1000 UNISTRUT FOR ALL OUTDOOR SUPPORTS.	80"& NOT GREATER THAN 96"AFF	XEN EN HX	FIRE ALARM NOTIFICATION DEVICES	
	EXISTING TO BE RELOCATED	11. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.	6'-6"	Ч-ч ю	MAXIMUM ELEVATION OF DISCONNECT SWITCHES, STARTERS	
5	SWITCH MOTOR RATED SWITCH TRANSIENT VOLTAGE SURGE SUPRESSOR	12. THE ELECTRICAL CONTRACTOR SHALL SECURE FROM OTHER CONTRACTORS ON THE PROJECT: SHOP DRAWINGS TO VERIFY CHARACTERISTICS OF ALL EQUIPMENT TO BE WIRED. IF THE CONTRACTOR FINDS DISCREPANCIES BETWEEN THE SHOP DRAWINGS AND THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIONS TO THE ELECTRICAL	6'-0" 4'-6"		AND CONTACTORS MAXIMUM ELEVATION OF WALL MOUNTED PHONES	3'-6" FOR ADA DEVICES
N. U/G	UNLESS OTHERWISE NOTED UNDERGROUND	INSTALLATION IF THE DRAWING REVIEW IS NOT COMPLETED BY THE CONTRACTOR. 13. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION ACCOUNT FROM COMPLETION OF FLECTRICAL	4'-0"		WALL MOUNTED PLUGMOLD	PLUG 24" ON CENTER
	WITH WIRE GUARD	14. THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED FOR PROPER GROUNDING AND OPERATION. TEST SHALL VERIFY THAT THE SYSTEM HAS NO SHORT CIRCUITS, OPENS, OVERLOADS, OR PANEL IMBALANCES. THE	3'-6"	■ _{EPO} S S ₃	WALL MOUNTED ELECTRICAL CONTROL DEVICES, SWITCHES, MANUAL MOTOR STARTERS	
	PHASE	CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND TEST INSTRUMENTS. ALL EQUIPMENT AND WIRING SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.	OPERABLE PART OF PULL STATION NOT LESS THAN 3'-6" NOR MORE THAN 4'-0" AFF	Ē	WALL MOUNTED FIRE ALARM PULL STATION	
	FOUR WIRE 25 AMPERES	OWNER A WRITTEN STATEMENT GUARANTEEING ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT. UPON WRITTEN NOTICE TO THE CONTRACTOR DURING THE WARRANTY PERIOD, THE CONTRACTOR NO EXPENSE TO THE OWNER, SHALL REPAIR OR REPLACE	3'-0"		WALL MOUNTED RECEPTACLE IN MECHANICAL, ELECTRICAL, AND ELEVATOR ROOMS AND ON BUILDING EXTERIORS	
		ALL DEFECTIVE MATERIALS OR WORKMANSHIP. 16. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS. SUBJECT TO THE APPROVAL OF THE			OUTLET OR SPECIAL RECEPTACLE	F
CTRICA	L DEMOLITION NOTES	ENGINEER. 17. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL. 18. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES WHERE REQUIRED.	ADJUSTED TO FIELD CONDITIONS 2. MOUNTING HEIGHT INDICATED FO UNLESS NOTED OTHERWISE. HEIG 3. RECEPTACLES OUTLETS SHALL B LAYOUTS AND DETAILS. 4. THIS CHART, INCLUDING THE NO	TESTED STALL DE AS INDIGATE , INCLUDING THE WALL CONSTRU R THE CENTERLINE OF THE DEVI GHTS INDICATED ARE APPLICABLE E 4" ABOVE COUNTERTOP, 6" AU ITES, IS APPLICABLE EVEN IF THI	JOTION ELEMENTS (BLOCKS, ETC.). ICE OR OUTLET, OR TO THE CENTER OF THE OPERATING CONTROL DEVICE, OVER GRADE, PLATFORM AND OTHER OPERATING LEVELS BOVE TABLE OR DESKTOP, OR AS NOTED ON ELECTRICAL OR ARCHITECTURA E MOUNTING HEIGHT IS SPECIFIED ON THE SYMBOL LIST.	L
ND GRAPHIC RE In Required. Existing cond	PRESENTATIONS SHALL NOT LIMIT THE EXTENT OF CONTRACTOR SHALL VISIT THE SITE, CAREFULLY ITIONS AND SHALL PERFORM ALL DEMOLITION	 ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS & 250 VOLT RATING FOR 208 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED. 				
TO ACHIEVE I DOCUMENTS. TED WITH THE	HE FINAL DESIGN INTENT AS REQUIRED BY THE EXTENT OF ALL DEMOLITION WORK SHALL BE OWNER & ENGINEER.	20. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY ELECTRICAL LIGHT AND POWER AS REQUIRED FOR THE PROJECT WORK OF ALL TRADES DURING CONSTRUCTION.				
k required to INS shall be IS of this co	REMAIN IN SERVICE BUT INTERFERING WITH THE RELOCATED AND RECONNECTED USING MATERIALS AND NTRACT.	21. PROVIDE MODIFICATION OF THE FIRE ALARM SYSTEM TO ACCEPT NEW DEVICE OR FOR RELOCATION OF EXISTING DEVICES. WIRE TO NEAREST INITIATING DEVICE CIRCUIT. PROVIDE PROGRAMMING OF FIRE ALARM SYSTEM TO ACCEPT NEW DEVICE(S) AS NECESSARY.				
Pment and Wi Any Demoliti	RING TO BE REMOVED SHALL BE DE-ENERGIZED ON WORK.	21.1. CONTRACTOR TO ENSURE THAT NEW DEVICE(S) SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM			Maximum Wire Distances vs. Wir	e Size for 20A, 1 Phase Brand
T INDICATED T OF IN ACCOR DNS. EQUIPMEN PLACED IN A	D BE REMOVED SHALL BE TAKEN FROM THE SITE AND DANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL T REQUIRED TO BE TURNED OVER TO THE OWNER MUTUALLY ACCEPTABLE LOCATION.	21.2. PROVIDE FIRE ALARM CABLE IN CONDUIT AS NECESSARY IN ACCORDANCE WITH MANUFACTURER STANDARDS 21.3. FIRE ALARM SYSTEM SHALL UNDERGO A 100% RE-ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 72			Voltage Load #12 # (V) Amps Run 120V 14 50 8	Size (Copper) 10 #8 Distance (Ft)* 30 125 215
re for feede Conduit and V K. Install Jui Iel and Circu	RS AND BRANCH CIRCUITS TO BE RE-USED - /IRING TO LOCATIONS WHICH AVOID CONFLICTS WITH ICTION BOXES, TAPE OFF CONDUCTORS AND IDENTIFY T NUMBER.				120V 11 50 0 120V 12 55 1 120V 10 65 1 120V 5 125 2	120 210 00 150 225 25 175 250 00 - -
< shall be pi ;hedules to f	ROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL REFLECT EQUIPMENT AND CIRCUIT REMOVALS.				277V 14 110 20 277V 12 125 20 277V 10 150 20 277V 5 300	00 25 50

ELEC

- 1. NOTES AN DEMOLITION EXAMINE E) REQUIRED T CONTRACT D COORDINATEL
- 2. All Work Alteration: Standards
- 3. ANY EQUIP PRIOR TO
- 4. Equipment Disposed Regulation Shall be f
- 5. PROCEDUR: REMOVE CC NEW WORK. WITH PANEL
- 6. ALL WORK PANEL SCH

* The above wire lengths are provided for reference only. Electrica Contractor is responsible to confirm voltage drop is less than 3% for the actual branch circuit routing.

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

REPRESENTATIVE.

- $\langle E \rangle$ all existing electrical and low voltage devices within space to be REMOVED UNLESS OTHERWISE NOTED. DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND ASSOCIATED ELECTRICAL EQUIPMENT BACK TO SOURCE. ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONTROLS WITHIN AREA OF WORK. ELECTRICAL CONTRACTOR TO REMOVE EXISTING WIRING AND CONDUIT ASSOCIATED WITH DEMOLISHED LIGHTING FIXTURES AND CONTROLS TO BE REMOVED BACK TO PANEL OF ORIGIN.
- D EXISTING FCU TO BE REMOVED AND RELOCATED. ELECTRICAL CONTRACTOR SHALL RE-INSTALL ANY ASSOCIATED DISCONNECTS OR SWITCHES AND SHALL EXTEND EXISTING WIRING AND CONDUIT AS NECESSARY TO FACILITATE UNIT RELOCATION.
- ELECTRIC POWER AND ASSOCIATED ELECTRICAL EQUIPMENT BACK TO SOURCE.
- $\langle c \rangle$ existing FCU to be demolished and removed. Disconnect and remove all
- $\langle B \rangle$ existing fume hood to be demolished and removed. Disconnect and remove ALL ELECTRIC POWER AND ASSOCIATED ELECTRICAL EQUIPMENT BACK TO SOURCE.
- NUMBERED AS FOLLOWS: $\langle A \rangle$ existing rooftop exhaust fan to be demolished and removed. Disconnect AND REMOVE ALL ELECTRIC POWER AND ASSOCIATED ELECTRICAL EQUIPMENT BACK TO SOURCE.
- DEMOLITION KEYED NOTES: <u>General</u>: Demolition notes are indicated with the following symbol $\langle - \rangle$ and are

 $\langle A \rangle$ (R)EF-10

EXISTING WIRELESS ACCESS POINT TO REMAIN TO BE RELOCATED. ELECTRICAL CONTRACTOR TO PROTECT WAP AND ASSOCIATED WIRING DURING CONSTRUCTION. SEE NEW WORK PLANS FOR RELOCATION DETAILS.

 $\langle A \rangle$ (R)EF–2

- $\langle G \rangle$ existing fire alarm device to be removed and relocated. Electrical CONTRACTOR TO EXTEND WIRING AND CONDUIT AS NECESSARY TO FACILITATE RELOCATION. SEE NOTE 21 ON ELECTRICAL LEAD SHEET FOR FIRE ALARM DEVICE DEMOLITION AND RELOCATION NOTES.
- $\langle H \rangle$ refer to panel replacement notes on sheet e302 for panelboard RELACEMENT REQUIREMENTS.

– <u>(E)UNIT VENTILATOR</u>

G

A203

- <u>(E)UNIT_VENTILATOR</u>

3

B (R)FUME HOOD -

DRAWN BY: DATE:

<image/>	GENERAL CLASSROOM A216	GENERAL CLASSROOM A214		GENERAL CLASSROOM A212
NEW YORK SYSTEM NOTES: 1. GATER, MOTES: 1. GAT	STARWELL S-4 GENERAL CLASSRO A213		GENERAL CLASSROOM A211	(E)PANEL '12A' 100A MLO, 208Y/120V, 3¢, FPO SCIENCE SCIENCE SCIENCE (T) (T) (T) (T) (E)UNIT VENTILATOR
NEW WORK SISTEM NOTES: 1. <u>ORVERAL NOTES:</u> 1. <u>ORVERAL HOTES:</u> 1. <u>ORVERAL:</u> 1. <u>ORVERA:</u> 1. <u>ORVERAL:</u> 1. <u></u>				
 NEW WORK SYSTEM NOTES: <u>RENERAL NOTES:</u> <u>RENERAL NOTES:</u> <u>RENERAL NOTES:</u> <u>REPERT TO BLOCKTORS SHALL EAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROVED.</u> <u>REPERT TO BLOCKTORS SHALL EAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROVED.</u> <u>REPERT TO BLOCKTORS SHALL EAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROVED.</u> <u>REPERT TO BLOCKTORS SHALL EXCORDANCE WITH THE VARIANCE SHEETS AND EXCOUNTING LECTRICAL CODE.</u> <u>ALL WORK SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL WORK.</u> <u>ALL WORK SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL WORK.</u> <u>ALL WORK SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL CONDUCTOR SHALL ELECTRCAL CODE.</u> <u>CONTRACTOR SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL WORK.</u> <u>ALL WORK SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL CONDUCTOR SHALL ELECTRCAL CONDUCT.</u> <u>E CONTRACTOR SHALL BROURED CONDUITS, RACEWARS, CONDUCTORS, AND OFFAR. MINOR DEVAILORS FROM THE PLAN.</u> <u>ALL WORK SHALL EPERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE ELECTRCAL CONTRACTOR SHALL USE MAXIMUM OF O' OF FEDERE CONDUIT FOR FOR ELECTRCAL CONTRACTOR SHALL BE CONDUIT TO THE APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRCAL CONTRACTOR SHALL BE CONDUIT TO THE APPROVED ACCONDUCTION FOR ALL SUBJECT TO VIBERTON, NOSE TRANSMISSION, OR MORTMENT AND FOR ALL SEPARTE GROUND CONDUCTOR SHALL BE CONDUIT FOR DAMP LOCATIONS INSTALL SUBJECT TO VIBERTON, NOSE TRANSMISSION, OR MORTMENT AND FOR ALL SEPARTE GROUND CONDUCTOR SHALL BE USED TOR NUMBER TO A AND FOR ALL SEPARTE GROUND CONDUCTOR SHALL BE USED TOR NUMBER TO A AND FOR ALL SEPARTE GROUND CONDUCTOR SHALL BE USED TOR NUMBER TO A AND FOR ALL SEPARTE GROUND CONDUCTOR SHALL BE USED TOR NUMBER TO A AND FOR ALL SEPARTE GROUND CONDUCTO</u>				S 12

ROOF

2/4/6

1 New rooftop exhaust fan. Electrical contractor to provide and install 30A frame disconnect switch with 20A fuses. Coordinate exact location of 2 NEW 24KW HOT WATER HEATER. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 100A FRAME DISCONNECT SWITCH WITH 90A FUSES. COORDINATE EXACT LOCATION OF SWITCH IN FIELD WITH OWNER PRIOR TO ROUGH-IN. (3) existing FCU shown in New Location. See demolition plan for relocation notes. 4 NEW RECEPTACLES PRE-WIRED WITHIN FURNITURE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW JUNCTION BOX TO FACILITATE POWERING OF FURNITURE MOUNTED DEVICES. 5 NEW RECEPTACLES TO BE MOUNTED WITHIN NEW FURNITURE. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT MOUNTING DETAILS. 6 NEW SINGLE CHANNEL PLUGMOLD TO BE MOUNTED ALONG WALL. COORDINATE WITH 7 EXISTING FIRE ALARM DEVICE SHOWN IN NEW LOCATION. SEE LEAD SHEET FOR GENERAL NOTES RELATING TO DEMOLITION, RELOCATION AND INSTALLATION OF NEW FIRE ALARM DEVICES. (8) existing panel 'l2e' to be replaced. See E-302 for details and notes (9) NEW CONDENSATE PUMP. EC TO PROVIDE AND INSTALL NEW NEMA KS 1, TYPE HD NONFUSIBLE MOTOR-RATED SWITCH WITH LOCKABLE HANDLE TO ACCOMMODATE INSTALLATION OF NEW CONDENSING UNIT. COORDINATE EXACT LOCATION OF SWITCH 10 NEW RECEPTACLES TO BE MOUNTED WITHIN NEW 3-STATION SINK. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (3) NEW GFCI RECEPTACLES WITHIN NEW

DATE:

13 New pedestal mounted LAB bench quad receptacle. Coordinate exact location W/ arch/owner. Provide all wiring as necessary concealed in

NEW WORK SYSTEM NOTES:

- A. REFER TO ELECTRICAL LEAD SHEET, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO BOOK SPECIFICATIONS FOR EXECUTION REQUIREMENTS.
- C. REFER TO DETAILS ON DRAWING E-301.
- D. REFER TO PANEL SCHEDULES ON DRAWING E-401.
- E. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL
- F. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
- G. CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN
- H. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- I. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING, SEE DRAWING E-301 SUBMIT UL APPROVED METHODS FOR FIRESTOPPING AT EACH SPECIFIC LOCATION.
- J. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- L. ALL DUCT MOUNTED SMOKE OR HEAT DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DUCT MOUNTED DETECTORS TO INSURE A COMPLETE OPERATING SYSTEM. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATIONS OF ALL DUCT MOUNTED DETECTORS. ALL DUCT MOUNTED DETECTORS AND THEIR ASSOCIATED WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE.

NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL \bigcirc and are numbered as FOLLOWS:

- (1) E.C. SHALL PROVIDE AND INSTALL (1) 200A 3 POLE CIRCUIT BREAKER IN EXISTING 1,600A, 208/120V 3PH 4 WIRE SWITCHBOARD LOCATED IN SOUTH ELECTRICAL ROOM. NEW BREAKERS SHALL MATCH EXISTING MANUFACTURER TYPE AND RATING. COORDINATE SHUT DOWN OF SERVICE TO ACCOMMODATE INSTALLATION OF NEW BREAKERS WITH SCHOOL DISTRICT ACCORDINGLY TO LIMIT DISRUPTION TO STUDENTS AND STAFF.
- (2) E.C. SHALL PROVIDE AND INSTALL NEW FEEDER FROM NEW 200A BREAKER IN EXISTING SWITCHBOARD TO NEW 225A PANEL 'SL2' LOCATED ON 2ND FLOOR. CONTRACTOR SHALL ROUTE CONDUIT THROUGH CEILING OF EXISTING CORRIDORS TO ACCESS NEW PANEL LOCATION. PROVIDE APPROPRIATE SUPPORT OF CONDUIT ON 6' CENTERS IN ACCORDANCE WITH NEC. CONTRACTOR MAY UTILIZE METAL CLAD MULTI-CONDUCTOR CABLE WHERE POSSIBLE TO ACCOMPLISH INSTALLATION ABOVE CEILINGS.

Π

NEW WORK SYSTEM NOTES: 1. <u>GENERAL NOTES</u> : A. REFER TO ELECTRICAL LEAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. C. REFER TO DRAWING E-003 & E-004 FOR PANEL SCHEDULES. D. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.	 M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTFIED. N. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER. P. THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR FOR
 E. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM. F. ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. G. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR. 	 EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS. Q. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THHN, OR THWN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12; STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE CONCEALED METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION. R. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
H. ALL MAGENTATS FENETRATING FIRE RATED FARTITIONS, WALLS, AND GEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.	S. THE CUNTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.

I. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S

REPRESENTATIVE.

- THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- K. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'.
- RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT APPROVAL.
- SERVED. J. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE U. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS

T. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR

480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT

- REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS. L. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND V. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON
 - EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.

NEW WORK KEYED NOTES:

1 NEW LIGHT FIXTURES TO BE SUPPLIED AND INSTALLED BY OTHERS UNDER SEPARATE CONTRACT. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW JUNCTION IN EACH ROOM WITHIN AREA OF WORK AS WELL AS (2)#12 CU & (1)#12 CU GRD IN 3/4" C. TO EXISTING PANELS, UTILIZING EXISTING BREAKERS ASSOCIATED WITH EXISTING LIGHTING REMOVED DURING DEMOLITION PHASE, TO FACILITATE INSTALLATION OF NEW LIGHTING.

(2) EXISTING FIRE ALARM DEVICE SHOWN IN NEW LOCATION. SEE LEAD SHEET FOR GENERAL NOTES RELATING TO DEMOLITION, RELOCATION AND INSTALLATION OF NEW FIRE ALARM DEVICES.

(3) NEW CO DETECTOR TO BE INTEGRATED INTO EXISTING BUILDING FIRE ALARM SYSTEMS. SEE GENERAL NOTE 21 ON ELECTRICAL LEAD SHEET E-001 FOR FIRE ALARM NOTES.

4 existing wireless access point shown in New Location. Electrical to provide and extend existing wiring as necessary to accomodate wap RELOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF NEW DEVICE.

(5) NEW PROJECTOR PLATE MOUNT LOCATION. NEW PROJECTOR TO RE-UTILIZE EXISTING PROJECTOR FEED MADE SPARE DURING DEMOLITION PHASE. COORDINATE EXACT LOCATION IN FIELD.

1. REFER TO SPEC SHEET SPECIFICATIONS FOR QUALITY CONTROL REQUIREMENTS 2. DETAILS SHOWN ON THIS DRAWING ARE TYPICAL DETAILS. IF FIELD CONDITIONS DO NOT MATCH REQUIREMENTS OF TYPICAL DETAILS, APPROVED ALTERNATE DETAILS SHALL BE UTILIZED. FIELD CONDITIONS AND DIMENSIONS NEED TO BE VERIFIED FOR COMPLIANCE WITH THE DETAILS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: • MINIMUM AND MAXIMUM WIDTH OF JOINTS. • REFER TO DRAWING E-003 & E-004 FOR PANEL SCHEDULES. 3. IF ALTERNATE DETAILS MATCHING THE FIELD CONDITIONS ARE NOT AVAILABLE, MANUFACTURER'S ENGINEERING JUDGEMENT DRAWINGS ARE ACCEPTABLE. DRAWINGS SHALL FOLLOW THE INTERNATIONAL FIRESTOP COUNCIL (IFC) GUIDELINES FOR EVALUATING FIRESTOP SYSTEMS ENGINEERING JUDGEMENTS. • 2002 UNDERWRITER'S LABORATORIES FIRE RESISTANCE DIRECTORY, VOLUMES 1 & 2 • NFPA 70 - NATIONAL ELECTRIC CODE 2021 ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES 4. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION 5. ALL RATED THROUGH-PENETRATION ASSEMBLIES SHALL BE PROMINENTLY LABELED WITH • ATTENTION: FIRE RATED ASSEMBLY

PANEL REPLACEMENT NOTES

THE INTENT OF THE PROJECT IS TO UTILIZE EXISTING PANEL BACKBOX TO THE MAXIMUM EXTENT POSSIBLE AND PROVIDE NEW PANEL INTERIOR AND BREAKERS AS NECESSARY TO MEET THE NEEDS OF THE PANEL IDENTIFIED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INCLUDING BUT NOT LIMITED TO NEUTRAL/GROUNDING BUS BARS, GUTTER POSTS, HOT BUSSES, MAIN BREAKER (WHERE APPLICABLE), LOCKABLE PANEL COVER, CIRCUIT ID CARD, ETC... TO ACCOMPLISH A COMPLETE INSTALLATION.

THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE PROJECT SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS RELATED TO THE PANEL SCHEDULED FOR REPLACEMENT/RETROFIT. THE ELECTRICAL CONTRACTOR SHALL UTILIZE PLANS DEVELOPED FOR THE PROJECT AND VERIFY EXISTING BREAKER SIZES IN THE PANEL PRIOR TO ASSEMBLY OF SHOP DRAWINGS BEING UTILIZED TO PROCURE MATERIAL NECESSARY FOR REPLACEMENT.

THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING PANEL BRANCH WIRE SIZE AND ADJUST NEW BREAKERS AS NEEDED TO MEET NEC REQUIREMENTS OF TABLE 310.15(B)(16). THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING PANEL FEEDER ENTRY LOCATION IN PANEL AND COORDINATE

PROCUREMENT OF NEW PANEL WITH FINDINGS TO MITIGATE NEED FOR FEEDER EXTENSION WHERE POSSIBLE WITHIN EXISTING PANELS.

THE ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING BRANCH WIRE AND FEEDERS AS NECESSARY IN PANELS TO ACCOMMODATE INSTALLATION OF NEW PANEL INTERIORS. UTILIZE 3M STYLE SPLICE KITS OR EQUAL WHERE REQUIRED TO FACILITATE FINAL TERMINATIONS IN NEW PANEL INTERIORS

THE ELECTRICAL CONTRACTOR SHALL ADVISE ENGINEER OF RECORD WHEN ENCOUNTERING CLOTH COVERED CABLING THAT IS COMPROMISED FROM AN INSULATION STANDPOINT AND MAY REQUIRE REPAIR REPLACEMENT. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING PANEL BACK BOX DEPTH AND PROVIDE BOX EXTENSION RINGS

AS NECESSARY TO MEET THE MINIMUM DEPTH REQUIREMENTS NEEDED TO INSTALL THE NEW PANEL INTERIORS. WHERE EXISTING RECESSED PANELS LOCATED IN COMMON AREAS OF THE BUILDINGS NEED TO BE EXTENDED TO ACCOMMODATE NEW INTERIORS THE CONTRACTOR SHALL PROVIDE A TAPERED PANEL COVER AND/OR ADDITIONAL MILLWORK PAINTED TO MATCH SURROUNDING SURFACES TO MITIGATE ANY AREAS WHERE OCCUPANTS OF THE BUILDING WOULD BE ABLE TO DAMAGE/VANDALIZE THE PANEL OR CAUSE HARM TO THEMSELVES OR OTHERS.

THE ELECTRICAL CONTRACTOR SHALL PERFORM WORK ASSOCIATED WITH THE PANEL RETROFITS DURING HOURS THAT WILL NOT AFFECT THE STUDENTS/STAFF OR LEARNING ENVIRONMENT/EDUCATIONAL SPACES. CONTRACTOR SHALL COORDINATE SHUT DOWNS OF AFFECTED PANELS WITH DISTRICT FACILITIES STAFF. PANELS THAT ARE IDENTIFIED AS AN EMERGENCY SOURCE THAT REQUIRE REPLACEMENT AND ARE FED FROM AN AUTOMATIC TRANSFER SWITCH SHALL BE COORDINATED WITH FACILITIES WHEN PERFORMING WORK THAT AFFECTS BUILDING EMERGENCY SOURCE.

1. THE SCOPE OF WORK FOR THE PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: 1.1. FIELD VERIFICATION OF PANEL LOCATION AND ASSOCIATED BACK BOX DEPTH/SIZE FIELD VERIFICATION OF PANEL BRANCH FEEDER ENTRY LOCATION 1.2. 1.3. FIELD VERIFICATION OF BRANCH WIRE CONDITION AND INSULATION INTEGRITY 1.4. FIELD VERIFICATION OF EXISTING BRANCH BREAKER SIZES REMOVAL AND DISPOSAL OF EXISTING PANEL 1.5. PROVISION AND INSTALLATION OF BOX EXTENSION RINGS AS NECESARY 1.6. 1.7. REPLACEMENT OF PANEL INTERIOR EXTENSION OF EXISTING FEEDER CABLES AS REQUIRED 1.8. TERMINATION OF EXISTING BRANCH WIRE ON NEW BRANCH BREAKERS 1.9.

1.10. PROVISION OF NEW TYPEWRITTEN PANEL SCHEDULE 1.11. TESTING AND INSPECTIONS

HAVE TO BE CENTERED ON EQUIPMENT.

ON- PANEL Y			
OT RQD.			
ETTERS/BLACK BACKGROUND			
	CUSTONER:	Bonn	
	END USER: Eckliphent:	ABetter Power Generation *	
	DOOR AND TRIM	Marco (1968) (700 Nov (1960) (200 Ro, Sao 1964, Million Am. Callingdoli, Ris 1902) (49) manganaganifana Bradi Integrampanifana Cadam Designed Blackis Paner Spaljement Brass (19	
	21005404	DATU: PAGE: 06-09-2021 DRAWNEY:	
		AJN	

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

								(De	mand Calculation of	loes no	tinclu	ude sub-	panel loads	5)		
Panel: SL2		NO	TE*	Main Bkr SCA					Category	C	onn.	D.F.	Demand	Conn.	D.F.	Demand
Location: A200	- T			Branch Bkr SCA					Lighting:		0	1.25	0			
Fed From: S SWITCHBOARD	7 F			Branch Bkr Series SCA					Receptacles:		0	1.00	0	0	0.50	0
Voltage: 208Y/120V, 3P4W)	< 1(00% N	eutral Bus					General:		0	1.25	0	0	1.00	0
Main Config: MLO Main Amps:	225A >	K E	quipm	ent Ground Bus					Motors:		0	1.00	0	0	0.25	0
Bus Rating: 225		ls	olated	I Ground Bus					Electric Space Htg:		0	1.00	0			0
Bus Matt: LV		S	ub-Fe	ed Lugs					Kitchen:		0	1.00	0	1st	& 2nd:	0
NEMA: 1	Г	S	ub-Fe	ed Breaker Amps					Noncoincident:		0	0.00	0			0
Mounting: RECESSED	Г	S	ervice	Entrance Rated					HVAC:		0	1.00	0	0	0.25	0
Panel Info:	_								Demand VA:		0	Dema	nd Amps	0		
					_				Demana V/I.		•	Denie	na / inpo.	v	I	
	Load	Bre	aker		Phase	Phase	Phase			Break	er	Load				
Load Description	VA	Ρ	Trip	Wiring	A	В	С	Win	ng	Trip	Ρ	VA	Load Des	cription		
·	8,000	3	90	4#2, 1#8G, 1-1/4"C	8,183	0	0	4#12, 1#12G, 3/4"C		20	3	183				-
(N) HOT WATER HEATER	8,000	-			0	8,183	0				-	183	(N) EF-7			
	8,000	-			0	0	8,183				-	183				
(N) CART CHARGER - A200	1,200	1	20	2#12, 1#12G, 3/4"C	1,728	0	0	2#12, 1#12G, 3/4"C		20	1	528	(N) EF-1			-
(N) CART CHARGER - A200	1,200	1	20	2#12, 1#12G, 3/4"C	0	1,896	0	2#12, 1#12G, 3/4"C		20	1	696	(N) EF-4			
(N) DISHWASHER - A200	1,680	1	20	2#12, 1#12G, 3/4"C	0	0	2,208	2#12, 1#12G, 3/4"C		20	1	528	(N) EF-6			
(N) REFRIGERATOR - A200	960	1	20	2#12, 1#12G, 3/4"C	1,960	0	0	2#12, 1#12G, 3/4"C		20	1	1,000	(N) FUME	HOOD - A2	205	
(N) TEACHER TABLE - A209	360	1	20	2#12, 1#12G, 3/4"C	0	900	0	2#12, 1#12G, 3/4"C		20	1	540	(N) GOGO	ALE SAN - A	201/20	3/205
(N) STUDENT TABLES - A209	1,440	1	20	2#12, 1#12G, 3/4"C	0	0	1,800	2#12, 1#12G, 3/4"C		20	1	360	(N) TEAC	HER TABL	E - A20	5
(N) STUDENT TABLES - A209	1,440	1	20	2#12, 1#12G, 3/4"C	2,880	0	0	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	205
(N) PEDESTAL RECEPT - A209	720	1	20	2#12, 1#12G, 3/4"C	0	2,160	0	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	205
(N) PLUGMOLD - A209	360	1	20	2#12, 1#12G, 3/4"C	0	0	1,800	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	205
(N) GOGGLE SANITIZING - A209/A207	360	1	20	2#12, 1#12G, 3/4"C	720	0	0	2#12, 1#12G, 3/4"C		20	1	360	(N) TEAC	HER TABL	E - A20	3
(N) TEACHER TABLE - A207	360	1	20	2#12, 1#12G, 3/4"C	0	1,800	0	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	203
(N) STUDENT TABLES - A207	1,440	1	20	2#12, 1#12G, 3/4"C	0	0	2,880	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	203
(N) STUDENT TABLES - A207	1,440	1	20	2#12, 1#12G, 3/4"C	2,880	0	0	2#12, 1#12G, 3/4"C		20	1	1,440	(N) STUD	ENT TABL	ES-A2	203
(N) STUDENT TABLES - A207	1,440	1	20	2#12, 1#12G, 3/4"C	0	2,340	0	2#12, 1#12G, 3/4"C		20	1	900	(N) PLUG	MOLD - A20	03	
(N) PLUGMOLD - A207	1,080	1	20	2#12, 1#12G, 3/4"C	0	0	2,160	2#12, 1#12G, 3/4"C		20	1	1,080	(N) PEDE	STAL REC	EPT - A	1203
(N) PLUGMOLD - A207	720	1	20	2#12, 1#12G, 3/4"C	960	0	0	2#12, 1#12G, 3/4"C		20	1	240	(N) COND	ENSATE P	PUMP	
(N) PLUGMOLD - A205	720	1	20	2#12, 1#12G, 3/4"C	0	720	0				1		(N) SPAR	E		
(N) PLUGMOLD - A205	1,080	1	20	2#12, 1#12G, 3/4"C	0	0	1,080				1		(N) SPAR	E		
					19,311	17,999	20,111	VA								
Total C	onnected I	Load:		57,421 VA				VA (Sub-Feed)	Notes:ELECT	RICAL	CON	TRACTO	OR TO MAT	CH EXISTIN	IG PAN	IELBOAR
Total C	onnected A	mps:		159 A	19,311	17,999	20,111	VA (Total)	RATING							
rning:The load category information has	not been e	ntered	foral	l circuits.	161	150	167	Amperage								

										(Demand Calculation	loes no	tinclu	de sub-	-panel loads)			
Panel: SL1			1	Main Bkr SCA						Category	C	onn.	D.F.	Demand	Conn.	D.F.	Demand	
Location: A100a CORR			F	Branch Bkr SCA						Lighting		0	1.25	0				
Fed From: S SWITCHBOARD			F	Branch Bkr Serie	s SCA				Γ	Receptacles		0	1.00	0	0	0.50	0	
Voltage: 208Y/120V, 3P4W)	X 10	0% Neutra	al Bus						General		0	1.25	0	0	1.00	0	
Main Config: MLO Main Amps:	125A	X Ed	quipment C	Ground Bus						Motors		0	1.00	0	0	0.25	0	
Bus Rating:		Is	olated Gro	ound Bus						Electric Space Htg		0	1.00	0			0	
Bus Mati:		S	ub-Feed Li	ugs						Kitchen		0	1.00	0	1st	& 2nd:	0	
NEMA:		S	ub-Feed B	Breaker	Amps				Γ	Noncoincident		0	0.00	0			0	
Mounting:		Se	ervice Entr	rance Rated						HVAC		0	1.00	0	0	0.25	0	
Panel Info:	_								Γ	Demand VA		0	Dema	and Amps:	0			i
						_			L									
Ckt	Load	Brea	aker			Phase	Phase	Phase			Break	er	Load					Ckt
# Load Description	VA	Ρ	Trip	Wi	ing	A	В	С		Wiring	Trip	Ρ	VA	Load Des	cription			#
1 (E) LTG - A200/204		1				0	0	0				1		(E) LTG - A	205			2
3 (E) LTG - A200/204		1				0	0	0				1		(E) LTG - A	1206			4
5 (E) LTG - A208		1				0	0	0				1		(E) RECE	PT INST. T	ABLES		6
7 (E)LTG - A208		1				720	0	0	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	8
9 (N) TEACHER TABLE - A208	360	1	20 2#1	12, 1#12G, 3/4"C		0	1,080	0	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	10
11 (E) RECEPT TABLE - A200/202		1				0	0	720	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	12
13 (N) STUDENT TABLES - A208	1,440	1	20 2#1	12, 1#12G, 3/4"C		1,440	0	0				1		(E) ROOF	GFI			14
15 (E) RECEPT TABLE - A206/208		1				0	720	0	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	16
17 (E) RECEPT TABLE - A206/208		1				0	0	720	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	18
19 (E) RECEPT TABLE - A206/208 GFI		1				720	0	0	2#12, 1#12G, 3/	4"C	20	1	720	(N) STU	DENT TA	BLES -	A204	20
21 (N) STUDENT TABLES - A208	1,440	1	20 2#1	12, 1#12G, 3/4"C		0	3,120	0	2#12, 1#12G, 3/	4"C	20	1	1,680	(N) DISH	WASHER	- A204	4	22
23 (N) STUDENT TABLES - A208	1,440	1	20 2#1	12, 1#12G, 3/4"C		0	0	2,400	2#12, 1#12G, 3/	4"C	20	1	960	(N) REF	RIGERAT	OR - A	204	24
25 (N) PLUGMOLD - A208	540	1	20 2#1	12, 1#12G, 3/4"C		1,620	0	0	2#12, 1#12G, 3/	4"C	20	1	1,080	(N) PLUC	MOLD - /	1204		26
27 (E) EF-3 - A206		1				0	900	0	2#12, 1#12G, 3/	4"C	20	1	900	(N) PED	ESTAL RE	CEPT	- A204	28
29 (N) PLUGMOLD - A208	720	1	20 2#1	12, 1#12G, 3/4"C		0	0	720				1		(E) GAS S	OLENOIDS	6		30
31 (E) RECEPT TV		1	└──┤ ──			360	0	0	2#12, 1#12G, 3/	4"C	20	1	360	(N) TEAC	CHER RE	CEPT -	A204	32
33 (E) HORN STROBE BOOSTER		1	⊢−−			0	360	0	2#12, 1#12G, 3/	4"C	20	1	360	(N) GOG	GLE SAN	- A204	/A206	34
35 (E) UV - A204		1	⊢−−			0	0	540	2#12, 1#12G, 3/	4"C	20	1	540	(N) 3-ST	ATION SI	NK - A2	204	36
37 (E) UV - A206		1				0	0	0				1		(E) UV - A	201			38
39 (N) PEDESTAL RECEPT - A208	540	1	20 2#1	12, 1#12G, 3/4"C		0	540	0				1		(E) UV - A	205			40
41 (N) SPARE		1				0	0	0				1		(N) SPA	RE			42
						4,860	6,720	5,100	VA									-
Total	onnected	Load:	16,6	,680 VA		4.000	0.700	E 400	VA (Sub-Fee	Notes:								
Total C	onnected A	Amps:	4	16 A		4,860	6,/20	5,100	VA (I otal)									
Varning: The load category information has	not been e	ntered	I for all circ	1 HVAC Projecto		40	56 Science L	42	Amperage	Panel Schedules view1/	1)011							
		sienut	in mase	The second secon	100 - Drawings (02-L	enape loza i	Collence Li		canochedules									

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d)
and

<u>6 PANEL 'L2C' SCHEDULE – MODIFIED</u> E-401 SCALE: NONE

NEW WORK SYSTEM NOTES:

1. <u>GENERAL NOTES</u>:

APPROVAL.

- A. REFER TO ELECTRICAL LEAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- C. REFER TO DRAWING E-003 & E-004 FOR PANEL SCHEDULES.
- D. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 EDITION OF THE NATIONAL ELECTRICAL CODE.
- E. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
- F. ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- G. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- H. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.
- I. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- J. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- K. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'. L. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT
- M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.
- N. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.
- O. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- P. THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- Q. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THHN, OR THWN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12; STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION.
- R. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
- S. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.
- T. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.
- U. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS.
- V. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.
- W. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS FOR NEW CIRCUITS AS REQUIRED. NEW CIRCUIT BREAKERS IN ALL MODIFIED PANELS SHALL MATCH EXISTING TYPES AND RATINGS.

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

	ABBRE	/IATION	NS .	DU(CTWORK SYMBOLS
AC ACR	AIR CONDITIONING UNIT AIR CURTAIN	HRU HUM	HEAT RECOVERY UNIT HUMIDITY OR HUMIDIFIER	<u>SYMBOL</u>	DESCRIPTION
AD AF	ACCESS DOOR AIRFOIL	HV HW	HEATING & VENTILATING UNIT HOT WATER		SUPPLY/OUTSIDE AIR DUCT
aff Ahu	ABOVE FINISHED FLOOR AIR HANDLING UNIT	HWR HWS	HOT WATER RETURN HOT WATER SUPPLY		RETURN/EXHAUST AIR DUCT
al Amd	ACOUSTICAL LINING AIR MEASURING DEVICE	HX Hz	HEAT EXCHANGER HERTZ	<u>ب ۲</u>	RECTANGULAR
AP AS	ACCESS PANEL AIR SEPARATOR	ID I/L	INSIDE DIAMETER INTERLOCK	<u>ب ب</u>	90° TAKEOFF, RECTANGULAR TO ROUND, STRAIGHT
ATC B	AUTOMATIC TEMPERATURE CONTROL BOILER	IN IN/WG	INCH INCHES WATER GALIGE	۲ ۲ ۲	90° TAKEOFF, RECTANGULAR TO ROUND BELLMOUTH W/ MANUAL VOLUME DAMPER
BAS	BUILDING AUTOMATION SYSTEM	KW	KILOWATT	<u>ب الم</u>	90° TAKEOFF, ROUND TO ROUND, STRAIGH
BD	BACKDRAFT DAMPER BOILER FEED LINIT		POUND(S)	, <u>→</u> ,	90° CONICAL TAKEOFF, ROUND TO ROUND
BFP	BACK FLOW PREVENTER	LD	LINEAR DIFFUSER		45° CONICAL LATERAL, ROUND TO ROUND
BFWP	BOILER FEEDWATER PUMP		LINEAR FEET LATENT HEAT	ک ب	
BI	BRAKE HORSEPOWER BACKWARD INCLINE	LPC LPD	LOW PRESSURE CONDENSATE LOW PRESSURE DRIP	, ,,	45 HAVE ROLLING TO ROLLING
BOD BOP	BOTTOM OF PIPE	LPS LR	LOW PRESSURE STEAM LINEAR RETURN		45 WYE, ROUND TO ROUND
BOS BPD	BOTTOM OF STEEL BYPASS AIR DAMPER	LRA LVR	LOCKED ROTOR AMPS LOUVER	, , ,	END OF DUCT (CAPPED)
btu Btuh	British Thermal Unit British Thermal Unit Per Hour	LWT MAU	LEAVING WATER TEMPERATURE MAKEUP AIR UNIT		SIDEWALL AIR TERMINAL W/VD (ARROWS DENOTE THROW DIRECTION)
BV ©	BUTTERFLY VALVE CENTER LINE	MB MBH	MIXING BOX 1000 BTU PER HOUR		LINEAR DIFFUSER
CBD CC	CONTINUOUS BOILER BLOWDOWN	MOD	MOTOR OPERATED DAMPER	FD_	
CD CF	CEILING DIFFUSER	MPS	MEDIUM PRESSURE STEAM SUPPLY	<u>}</u> ,,	FIRE DAMPER - VERTICAL POSITION
CFH	CUBIC FEET PER HOUR	MU (N)	MAKE UP WATER NEW	⋈	FIRE DAMPER - HORIZONTAL POSITION
CH	CHILLER CHILLER	NC NG	NORMALLY CLOSED NATURAL GAS	کے ل	FLEXIBLE CONNECTION
CHWR	CHILLED WATER SUPPLY	NO NTS	NORMALLY OPEN NOT TO SCALE	<u>۲</u>	MANUAL VOLUME DAMPER
CIP	CLEAN IN PLACE	OA OAD	OUTSIDE AIR OUTSIDE AIR DAMPER	MOD	
COMP	COMPRESSOR	oai Obd	OUTSIDE AIR INTAKE OPPOSED BLADE DAMPER		MOTOR OPERATED DAMPER
COND CP	CONDENSATE CONDENSATE PUMP	OCC OD	occupied Outside diameter	(SP)	
CRU	COMPUTER ROOM AIR CONDITIONING UNIT	OED OP	OPEN END DUCT ORIFICE PLATE		SMOKE DETECTOR (DUCT-MOUNTED)
CS – CT	CLEAN STEAM – PSIG COOLING TOWER	OV P	OUTLET VELOCITY		EXHAUST AIR DESIGNATION
CU CUH	CONDENSING UNIT CABINET UNIT HFATFR	r PBD	PARALLEL BLADE DAMPER		RETURN AIR DESIGNATION
CV	CONSTANT VOLUME / CONTROL VALVE	PC PD	PUMPED CONDENSATE - PSIG PRESSURE DROP		
CWR	CONDENSER WATER RETURN	PERF PH	PERFORATED PHASE	P	PIPING SYMBOLS
DA	DIRECT ACTING	PHC PNEU	PREHEAT COIL PNEUMATIC		
DB DC	DRY BULB DUST COLLECTOR	PRV PSF	PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT	SYMBOL	
ddc Deh	DIRECT DIGITAL CONTROLS DEHUMIDIFIER	PSIA PSIG	POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE		SEE SPECIFICATIONS FOR TYPE
dhws/r dia./ø	DOMESTIC HOT WATER SUPPLY / RETURN DIAMETER	PT PVC	PRESSURE TRANSMITTER		BALL VALVE GATE VALVE
DIFF DISCH	DIFFERENTIAL DISCHARGE	(R)	REMOVE EXISTING		GLOBE VALVE
DL DN	DOOR LOUVER DOWN	RAD	RADIATION RADIATION	—и́я—	BUTTERFLY VALVE
DR		RCP RD	RADIANT CEILING PANEL RETURN AIR DAMPER		PLUG VALVE
DWDI DX	DOUBLE WIDTH DOUBLE INLET DIRECT EXPANSION	(RE) RE	RELOCATE EXISTING RELIEF AIR	之	VACUUM BREAKER
D/L (E)	DRILLING AND LOOPING EXISTING TO REMAIN	REFR RELD	REFRIGERANT RELIEF DAMPER		CHECK VALVE
eat Ebb	ENTERING AIR TEMPERATURE ELECTRIC BASEBOARD RADIATION	RF RG	RETURN AIR FAN RETURN AIR GRILLE		ANGLE SHUTOFF VALVE SEE SPECIFICATIONS FOR TYPE
ec Ecc	EVAPORATIVE CONDENSOR ECCENTRIC	RH	RELATIVE HUMIDITY		ANGLE BALANCING/SHUTOFF VALVE
EDH FDR	ELECTRIC DUCT HEATER	RHG	REFRIGERANT HOT GAS		
EF	EXHAUST FAN	RO	ROOF OPENING		COMBINATION BALANCING/SHUTOFF VA
GE	EMERGENCY GENERATOR EXHAUST	RPM RR	REVOLUTIONS PER MINUTE RETURN AIR REGISTER		
EU EU	EXPANSION JOINT	rs Rtu	REFRIGERANT SUCTION		SAFETY/RELIEF VALVE - PLAN AND F
EP	EINERGT MUNITURING CONTROL SYSTEM	RV S –	REFRIGERANT VENT STEAM – PSIG		
lr Eru	EXHAUST REGISTER ENERGY RECOVERY UNIT	SA SD	SUPPLY AIR SMOKE DAMPER OR SUPPLY DIFFUSER		PUMP - GENERIC
es Esp	END SWITCH EXTERNAL STATIC PRESSURE	SDA	SOUND ATTENUATOR SMOKE EXHAUST FAN		PUMP - END SUCTION
et Euh	EXPANSION TANK ELECTRIC UNIT HEATER	SF			BASKET STRAINER -
EWT FX	ENTERING WATER TEMPERATURE	SG SH	SUPPLI AIR GRILLE SENSIBLE HEAT		LLEVATION AND PLAN
(F) •F	FUTURE DEGREES FAHRENHEIT	SMD SP	SMOKE DETECTOR STATIC PRESSURE		
F FC	FILTER	SQ FT SR	SQUARE FEET SUPPLY AIR REGISTER	אל' ס	
FCU	FAN COLL UNIT	SRD SRV	SAFETY RELIEF VALVE DISCHARGE SAFETY RELIEF VALVE	<u> </u>	PRESSURE GAUGE WITH GAUGE COCK
FCV FD	FLOW CUNTROL VALVE FLOOR DRAIN OR FIRE DAMPER	SS STM	STAINLESS STEEL STEAM		AND BOURDON TUBE
fg FH	FIBERGLASS FUME HOOD	SUCT SWSI	SUCTION SINGLE WIDTH SINGLE INLET		THERMOMETED
fhe Fla	FUME HOOD EXHAUST FULL LOAD AMPS	S/R T	SUPPLY AND RETURN THERMOSTAT	<u>т</u> Р/Т	
FM FOB	FLOW METER FLAT ON BOTTOM	tab Tad	TESTING AND BALANCING TRANSFER AIR DUCT		PRESSURE/TEMPERATURE TEST FITTIN
FOR		tf TEMP	TERMINAL AIR FILTER TEMPERATURE		
FOT	FLAT ON TOP	TH	TOTAL HEAT THERMOMETER		
FPB	FAN POWERED BOX		TOP OF DUCT		ILE CONNECTION - STRAIGHT, DOWN
FPM FPS	FEET PER SECOND	TOP	TOP OF STEEL		UNIUN END CAP
frp Fs	FIBERGLASS REINFORCED PIPE FLOW SWITCH	TSP	TOTAL PRESSURE		BLIND FLANGE
FT FT/WG	FEET OR FLASH TANK FEET WATER GAUGE	Π UC	ILMPERATURE TRANSMITTER UNDERCUT	~~···	PIPE BELLOWS
F&T FTR	FLOAT & THERMOSTATIC TRAP FINNED TUBE RADIATION	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE	—×—	PIPE ANCHOR
FV FZ	FACE VELOCITY FREEZESTAT	UNOCC UV	UNOCCUPIED UNIT VENTILATOR		PIPE GUIDE (SLIDING)
GPH	GALLONS PER HOUR	V VAC	VENT OR VOLTS		FIFE GUIDE (MUMENT)
GR GR	GRILLE OR GLYCOL RETURN	VAV	VARIABLE AIR VOLUME	4	electrically mean traced piping AIR VENT - (MANUAL)
GRAV GS	GRAVITY GLYCOL SUPPLY	VB VD	MANUAL VOLUME DAMPER		
GV H	GATE VALVE HUMIDISTAT	VEL VF	VELOCIT VENTILATING FAN		
HC HD	HEATING COIL HEAD	VFD VI	VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR		ECCENTRIC REDUCER
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE FILTER	VIB VIV	VIBRATION VARIABLE INLET VANES	—_F	STEAM TRAP - FLOAT AND THERMOS
HL HOA	HIGH LIMIT HAND-OFF ALITOMATIC SELECTOR SWITCH	VP VTR	VACUUM PUMP VENT THROUGH ROOF		STEAM TRAP - BUCKET
Н/О	HAND-OFF SELECTOR SWITCH	WB	WET BULB WATER COLUMN		STEAM TRAP - THERMOSTATIC
HP	HORSEPOWER OR HEAT PUMP	WG WMS	WATER GAUGE WIRF MESH SCREEN		STEAM TRAP - THERMODYNAMIC
HPD	HIGH PRESSURE DRIP	WP	WATERPROOF	$\frac{P - R}{W}$	PLICH OF PIPE, RISE (R) DROP (D)
hps Hps	HEAT PUMP SUPPLY HEAT PUMP RETURN	XP	EXPLOSION PROOF	<u>_</u> H	EXPANSION LOOP AND SIZE
				1	

		+
5	LINE DESIGNATIONS	APPLICABLE CODES & STANDARDS
	— CHWS CHILLED WATER SUPPLY — CHWR CHILLED WATER RETURN — CWS CONDENSER WATER SUPPLY — CWR CONDENSER WATER RETURN — CWR HOT WATER SUPPLY — HWS HOT WATER RETURN — HWR HOT WATER RETURN — HPS HEAT PUMP SUPPLY — HPR HEAT PUMP RETURN	THE FOLLOWING CODES AND STANDARDS APPLY TO THIS PROJECT: 1. INTERNATIONAL BUILDING CODE (IBC) 2021, NJ EDITION. 2. NJAC REHABILITATION SUB-CODE 5:23-6 3. INTERNATIONAL MECHANICAL CODE (IMC) 2021. 4. INTERNATIONAL FUEL GAS CODE (IFGC) 2021. 5. NATIONAL STANDARD PLUMBING CODE (NSPC) 2021 6. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) 2020
e HT	GLICOL SUPPLY	GENERAL PROJECT NOTES
)	FOR FOR FUEL OIL VENT 	 THE FOLLOWING NOTES APPLY TO ALL "M" MECHANICAL DRAWINGS: 1. ALL WORK SHALL FOLLOW THE REFERENCED APPLICABLE CODES AS ADOPTED AND MODIFIED BY THE STATE OF NEW JERSEY. 2. ALL WORK CONTAINED WITHIN THE MECHANICAL DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE SINGLE PRIME CONTRACTOR UNLESS OTHERWISE NOTED. 3. NOT ALL SYMBOLS, ABBREVIATIONS AND LINE DESIGNATIONS ARE NECESSARILY USED ON THIS PROJECT. 4. ALL HVAC EQUIPMENT, DUCTWORK, PIPING, SUPPORTS AND ACCESSORY LOCATIONS AND ROUTING SHALL BE COORDINATED WITH ALL OTHER TRADES AND FIELD VERIFIED PRIOR TO INSTALLATION TO PROVIDE REQUIRED CLEARANCES FOR ALL OTHER SYSTEMS. 5. SUPPLY, RETURN AND EXHAUST AIR OPENING LOCATIONS AND SIZES FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE SHOWN FOR DUCTWORK ROUTING ONLY. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL SIZES OF DUCT CONNECTIONS AND THE REQUIRED ROOF OPENING SIZES FOR THE ROOF MOUNTED MECHANICAL SIZES OF DUCT CONNECTIONS AND THE REQUIRED ROOF OPENING SIZES FOR THE ROOF MOUNTED ADD COORDINATE THE FINAL LOCATION OF ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
	Image: Sym. AUTOMATIC CONTROL DAMPER SYMBOLS: Image: Sym. OA = OUTSIDE AIR SA = SUPPLY AIR RA = RETURN AIR SD = SMOKE DAMPER EA = EXHAUST AIR FS = FIRE/SMOKE RE = RELIEF AIR BD = BACKDRAFT DAMPER Image: Thermostat - Duct mounted Image: Thermostat - Duct mounted <td> THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK STALL INSTALL ALL ROOF MOUNTED MECHANICAL EQUIPMENT CURBS AND FLASHING AND COORDINATE WITH THE CONTRACTOR PROVIDING GENERAL TRADES PRIOR TO THE APPLICATION OF THE BUILDING ROOFING. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL ALSO INSTALL ALL NECESSARY ROOF CURB COUNTER-FLASHING TO ACHIEVE A WATERTIGHT ROOFING SEAL. DUCTWORK MAINS AND BRANCHES ARE SHOWN DIAGRAMMATICALLY AND FOR DESIGN CLARITY AND AT THE ROOM LEVEL ROUTING AND ARRANGEMENT IS SHOWN TO MINIMIZE NOISE CARRYOVER FROM MECHANICAL EQUIPMENT AND ADJOINING SPACES. CONTRACTOR MAY PROPOSE REROUTING, OFFSETS, RISES AND DROPS AS NECESSARY TO CLEAR INSTALLED TRUSSES, JOISTS AND OTHER INTERFERENCES. FINAL DUCTWORK LAYOUT WILL BE APPROVED IN REQUIRED DUCTWORK SHOP DRAWING SUBMITTAL REVIEW PRIOR TO INSTALLATION. DEVATIONS FROM APPROVED DUCTWORK SHOP DRAWING TO SUIT FIELD CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. ALL PIPING/DUCTWORK/CONTROLS PENETRATING FIRE RATED PARTITIONS, WALLS AND CEILINGS SHALL BE SEALED ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATING. WHERE A PIPE/DUCT/CONTROL CONDUIT HAS BEEN REMOVED THAT PREVIOUSLY PENETRATED A FIRE RATED PARTITION, WALL OR CEILING, THE CONTRACTOR SHALL PATCH AND SEAL THE PREVIATION ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATION SFOR ADDITIONAL INFORMATION. CONTRACTOR SHALL RE-APPLY FIREPROOFING IN TYPE AND THICKNESS TO MATCH EXISTING IN ANY AREAS WHERE EXISTING FIREPROOFING IS DAMAGED DO TO DEMOLITION OR NEW WORK ACTIVITIES. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. </td>	 THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK STALL INSTALL ALL ROOF MOUNTED MECHANICAL EQUIPMENT CURBS AND FLASHING AND COORDINATE WITH THE CONTRACTOR PROVIDING GENERAL TRADES PRIOR TO THE APPLICATION OF THE BUILDING ROOFING. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL ALSO INSTALL ALL NECESSARY ROOF CURB COUNTER-FLASHING TO ACHIEVE A WATERTIGHT ROOFING SEAL. DUCTWORK MAINS AND BRANCHES ARE SHOWN DIAGRAMMATICALLY AND FOR DESIGN CLARITY AND AT THE ROOM LEVEL ROUTING AND ARRANGEMENT IS SHOWN TO MINIMIZE NOISE CARRYOVER FROM MECHANICAL EQUIPMENT AND ADJOINING SPACES. CONTRACTOR MAY PROPOSE REROUTING, OFFSETS, RISES AND DROPS AS NECESSARY TO CLEAR INSTALLED TRUSSES, JOISTS AND OTHER INTERFERENCES. FINAL DUCTWORK LAYOUT WILL BE APPROVED IN REQUIRED DUCTWORK SHOP DRAWING SUBMITTAL REVIEW PRIOR TO INSTALLATION. DEVATIONS FROM APPROVED DUCTWORK SHOP DRAWING TO SUIT FIELD CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. ALL PIPING/DUCTWORK/CONTROLS PENETRATING FIRE RATED PARTITIONS, WALLS AND CEILINGS SHALL BE SEALED ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATING. WHERE A PIPE/DUCT/CONTROL CONDUIT HAS BEEN REMOVED THAT PREVIOUSLY PENETRATED A FIRE RATED PARTITION, WALL OR CEILING, THE CONTRACTOR SHALL PATCH AND SEAL THE PREVIATION ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATION SFOR ADDITIONAL INFORMATION. CONTRACTOR SHALL RE-APPLY FIREPROOFING IN TYPE AND THICKNESS TO MATCH EXISTING IN ANY AREAS WHERE EXISTING FIREPROOFING IS DAMAGED DO TO DEMOLITION OR NEW WORK ACTIVITIES. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	(SP) SPACE STATIC PRESSURE SENSOR ーズー AUTOMATIC CONTROL VALVE (2 - WAY)	10. CONTRACTOR SHALL COORDINATE THE REPLACEMENT OF MECHANICAL EQUIPMENT WITH THE FACILITIES STAFF AND THE OWNER IN ADDITION TO ALL OTHER WORK BEING COMPLETED UNDER SEPARATE CONTRACTS. ALL ITEMS BEING REMOVED AS PART OF THE UPGRADES SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
SSURE TAPS ALVE ELEVATION	→R SOLENOID VALVE FS FLOW SWITCH CO2 CO CO2 CO CO2 CO CO3 CO CO4 CO2 SWITCH SWITCH MISCC. DWG. SYMTCH MISC. MISC. DWG. SYMTCH POINT OF CONNECTION POINT OF DISCONNECT POINT OF DISCONNECT POINT OF CONNECTION FOR FUTURE WORK POINT OF CONNECTION FOR FLOW (GPM,CFM,ETC.) POINT OF CONNECTION FOR FLOW (GPM,CFM,ETC.) DETAIL NUMBER POINT OF CONNECTION NUMBER SECTION NUMBER PLAN NUMBER PLAN NUMBER PLAN NUMBER PLAN NUMBER PLAN NUMBER PLAN NUMBER	 In Incommutate controlocing shall coordinate initial electricate and/or repraced in-kind as indicated on the contract documents. MECHANICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES FOR INSTALLATION AND WIRING BY THE ELECTRICAL CONTRACTOR. HECHANICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES FOR INSTALLATION AND WIRING BY THE ELECTRICAL CONTRACTOR. PROVIDING MECHANICAL TRADE WORK SHALL COORDINATE VOLTAGES FOR EACH PIECE OF EQUIPMENT BEFORE PURCHASING EQUIPMENT WITH CONTRACTOR PROVIDING ELECTRICAL TRADE WORK. HVAC TESTING & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACTOR STOR DETAILS. CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS FOR DETAILS. CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTION TO EQUIPMENT. IF DUCT CONNECTION TO EQUIPMENT CANNOT BE MADE WITHOUT A HARD CONNECTION (E.G. MIXING BOX/FILTER RACK ASSEMBLY), CONTRACTOR SHALL PROVIDE FLEX CONNECTION TO BOULPMENT. ALL EXISTING WALLS, CELLINGS, ROOF, FLOORS AND OTHER FINISHED SURFACES DAMAGED OR MODIFIED SHALL BE REPARED TO MATCH ADJACENT UNDISTURBED AREA APATCH AND REPAR SHALL MATCH EXISTING ADJACENT UNDERCES ASS TO THICKNESS, TEXTURE, MATERIALS AND COLOR. ALL ABANDONED OPENINGS SHALL BE PERFORMED SUCH THAT WARRANTY IS MAINTAINED. CONTRACTOR SHALL REMOVE, STORE AND RE-INSTALL AL CELLING TILES AS REQUIRED TO ACCESS ABOVE CELLING AREAS TO THICKNESS, TEXTURE,
G I, AND UP	- KEYED NEW WORK NOTE	 CONTRACTOR SHALL TEMPORARITY RELOCATE ALL PIPING, ELECTRICAL CONDUITS, LIGHTING, CONTROLS, EIC., TO OF WORK. EXISTING PIPING IN WORK AREA SMALLER THAN 2" AND CONDUITS SMALLER THAN 1" ARE NOT EXPLICITLY SHOWN. CONDUCT FIELD SURVEY AS REQUIRED TO DETERMINE EXISTING CONDITIONS. PROVIDE VALVED DRAINS ON ALL WATER PIPING SYSTEM LOW POINTS AND AS REQUIRED ON NEW EQUIPMENT. PROVIDE AR VENTS AT PIPING SYSTEM HIGH POINTS AS REQUIRED FOR RELEASING AIR DURING STARTUP. NO PIPING SMALLER THAN 3/4" EXCEPT AS NOTED. PROVIDE WIRING AND RACEWAYS RELATED TO CONTROL OF MECHANICAL EQUIPMENT. RACEWAYS TO BE MINIMUM 3/4" RIGID CONDUIT. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR MATERIAL PIPE SIZE & MATERIAL TYPE BY SYSTEM. FOR SYSTEMS REQUIRING DISISMILAR METALS CONTRACTOR SHALL PROVIDE GALVANIC CORROSION AND CATHODIC PROTECTION (DIELECTRIC UNION, DIELECTRIC FITTING, ETC.) IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR SHALL REFER TO CONDUCTING WALK-THROUGH OF SITE PRIOR TO SUBMITTING BID TO BE FAMILIAR WITH SITE CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS (SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE SITE CONDITIONS AND REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS (SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE SITE OF NEW JERSEY) AND INSTALLATION INFORMATION TO SHOW COMPLIANCE WITH SEISMIC AND WIND FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021, NJ EDITION. INFORMATION SHALL BE MADE AVAILABLE OF NEW JERSEY) AND AND RASULLATION NERORATION TO SHOW COMPLIANCE WITH SEISMIC AND WIND FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021, NJ EDITION. INFORMATION SHALL BE MADE AVAILABLE OF REVEW AND ALSO, MADE AVAILABLE UPON REQUEST FOR SUBMISSION SHALL BE MADE AVAILABLE OF REVEW AND ALSO, MADE AVAILABLE UPON REQUEST AND ENGINEERING DOCUMENTATION NECESSARY TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM.
TATIC		 <u>PROJECT SCOPE OF WORK</u>: 1. ALL WORK CONTAINED WITHIN THE DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE SINGLE PRIME CONTRACTOR, UNLESS OTHERWISE NOTED. REFER TO INDIVIDUAL DRAWING SHEETS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. 2. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS OF THE PROJECT. 3. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC MECHANICAL REQUIREMENTS AND COORDINATION. 4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ARCHITECTURAL REQUIREMENTS AND COORDINATION. 5. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ELECTRICAL REQUIREMENTS AND COORDINATION. 6. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC STRUCTURAL REQUIREMENTS AND COORDINATION.

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PRIME CONTRACTOR, REQUIREMENTS.

				ISSUE	ISSUED FOR BID	
SHEET NO.	DRAWING NUMBER	DRAWING TITLE	SCALE	DATE	12/8/23	
1	M-001	MECHANICAL LEAD SHEET	NTS			
2	MD-101	MECHANICAL DEMOLITION FLOOR AND ROOF PLANS	1/8"=1'-0"		x	
3	M101	MECHANICAL NEW WORK FLOOR AND ROOF PLANS	1/8"=1'-0"		x	
4	M-301	MECHANICAL SCHEDULES AND DETAILS	N.T.S.		x	

DRAWING SHEET INDEX (PROJECT 8267)

- WITH THE OWNER AND OTHER WORK BEING COMPLETED UNDER SEPARATE CONTRACTS. ALL ITEMS REMOVED FROM THE EQUIPMENT AS PART OF THE REPLACEMENT SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN

- MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES
- ITEMS THAT ARE TO BE INCLUDED IN THE REPLACEMENT FOR REVIEW PRIOR TO
- 7. CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT TO REMAIN CLEANING PRIOR TO TURNOVER OF THE SPACES TO THE OWNER.

- SPECIFICATIONS. FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE CURB
- SPECIFICATIONS. PROVIDE NEW CURB AND ROOF OPENING. COORDINATE ALL ROOF WORK WITH EXISTING ROOF MANUFACTURER TO ENSURE AIR A WATER TIGHT
- AND WITH CAPACITIES AND CHARACTERISTICS AS NOTED WITHIN THE EQUIPMENT PENETRATION THRU ROOF TO CONNECT TO NEW LAB FUME HOOD. FAN SHALL BE CONTROLLED VIA SWITCH ON HOOD. COORDINATE WIRING AND ANY REQUIRED INTERLOCKS WITH ELECTRICAL CONTRACTOR. COORDINATE ALL ROOF WORK WITH
- EXISTING ROOF MANUFACTURER TO ENSURE AIR A WATER TIGHT INSTALLATION. INDICATED. RE-USE TO THE GREATEST EXTENT POSSIBLE ALL DUCTWORK, REGISTERS, GRILLS, AND FITTINGS. PROVIDE NEW DUCTWORK, DUCT ACCESSORIES, AND HANGERS AS NECESSARY. EXTEND CHWS/R PIPING AND CONDENSATE PIPING

	VENTILATION SCHEDULE														
			BREAT	HNG ZONE VBZ= (Rp*l	OA CALCULATIO Pz)+(Ra*Az)	N	ZONE OA CA VOZ = \	ALCULATION /BZ / EZ	E	XHAUST CALCUL	DESIGN AIRFLOWS				
ROOM NUMBER	ROOM NAME	Az FLOOR AREA (SF)	R₄ AREA OA RATE (CFM / SF)	Pz NO. OF PEOPLE (QTY)	R _P PEOPLE OA RATE (CFM / PERSON)	V _{BZ} BREATHING ZONE OA (CFM)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS	V _{oz} ZONE OUTDOOR AIRFLOW (CFM)	NO. OF FIXTURES (QTY)	EA RATE (CFM / FIXTURE) OR (CFM/SF)	CALCULATED EXHAUST AIRFLOW (CFM)	SUPPLY AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	NOTES
A200	SCIENCE STORAGE	219	0.18	-	10	39	1	39	-	-	-	285	-	40	-
A201	CHEMISTRY ROOM	1153	0.18	28	10	488	1	488	-	-	-	1500	500	500	-
A203	BIOLOGY ROOM	1146	0.18	28	10	486	1	486	-	-	-	1500	-	500	-
A204	BIOLOGY ROOM	1177	0.18	20	10	412	1	412	-	-	-	1500	500	500	-
A205	CHEMISTRY ROOM	1227	0.18	28	10	501	1	501	-	1	1227	1500	1230	500	-
A207	ASTRONOMY/BIOLOGY ROOM	998	0.18	30	10	480	1	480	-	-	-	1500	500	500	-
A208	BIOLOGY ROOM	1126	0.18	28	10	483	1	483	-	-	-	1500	500	500	-
A209	SCIENCE CLASSROOM	1009	0.18	28	10	462	1	462	-	-	-	1500	500	500	-
TOTALS:		8055										10785	3730	3540	

	EXHAUST FAN SCHEDULE												
					EAN	MOTOR	ELECTRICAL	OPER	BASIS OF	DESIGN			
SYMBOL	SERVICE	LOCATION	CFM	ESP	RPM	HP	V/PH/HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES		
EF-1	A207	ROOF	500	0.125	973	1/6	120/1/60	30	GREENHECK	G-095VG	1-5		
EF-4	A205	ROOF	1230	0.125	749	1/4	120/1/60	50	GREENHECK	G-140VG	1,3,4,5,7		
EF-6	A209	ROOF	500	0.125	973	1/6	120/1/60	30	GREENHECK	G-095VG	1-5		
EF-7	A205 FUME HOOD	ROOF	760	0.5	1309	1/3	208/3/60	184	GREENHECK	USF-12-B7	1,3,4,5,6,8,9		

NOTES:

1. PROVIDE BIRDSCREEN 2. MOUNT ON NEW ROOF CURB

3. PROVIDE MOTORIZED BACKDRAFT DAMPER. INTERLOCK DAMPER OPERATION WITH EXHAUST FAN OPERATION. MOTORIZED DAMPER TO HAVE SAME VOLTAGE AS FAN 4. PROVIDE PREMIUM EFFICIENCY MOTOR

5. PROVIDE FACTORY MOUNTED PREWIRED DISCONNECT SWITCH 6. PROVIDE WITH FACTORY MOUNTED VFD.

7. PROVIDE CURB ADAPTER. VERIFY DIMENSIONS OF EXISTING CURB AND ROOF OPENING IN FIELD PRIOR TO RELEASE.

8. EF-7 SHALL BE OPERATED VIA FUME HOOD SWITCH. COORDINATE WIRING WITH ELECTRICAL CONTRACTOR. 9. PROVIDE EQUIPMENT SUPPORTS WITH VIBRATION ISOLATION RAILS.

	AIR TERMINAL DEVICE SCHEDULE												
							BA						
SYMBOL	SERVICE	TYPE	CFM RANGE	NECK SIZE	N.C	FACE OVERALL DIMENSIONS WxL (IN.)	MANUFACTURE						
ER-1	EXHAUST	LAY-IN	500	10x10	30	12x12	PRICE						
ER-2	EXHAUST	LAY-IN	1230	16x16	30	18x18	PRICE						

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.

2. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH THE CEILING/WALL CONSTRUCTION TYPE.

2. CONTRACTOR SHALL PROVIDE REQUIRED DUCT SUPPORTS BELOW ROOF AND FASTEN TO DUCTWORK AND DECKING TO SUPPORT VERTICAL WEIGHT.

LEGEND

	EXISTING COLD WATER PIPING
	NEW COLD WATER PIPING
	NFW HOT WATER PIPING
	EXISTING SANITARY WASTE PIPING
	NEW SANITARY WASTE PIPING
	EXISTING SANITARY VENT PIPING
	NEW SANITARY VENT PIPING
GW	EXISTING GREASE WASTE PIPING
	NEW GREASE WASTE PIPING
C	NEW GAS PIPING
	CRADE & FLOOR CLEANOLIT
	PLOW DIRECTION
	PIPING DOWN/DROP @ TEF
	PIPING RISE/LIP @ FI BOW
	PIPING RISE/UP @ TEE
<u> </u>	, P-TRAP
\	CONCENTRIC REDUCER
— <u>N</u>	ECCENTRIC REDUCER
· ·	UNION
	CAPPED OFF PIPE
Ħ	RALL VALVE
553	BACKELOW PREVENTER
Ģ	
	SHUCK ABSURBER
	CHECK VALVE
	PRESSURE REGULATING/REDUCING VALVE
f	BALANCING VALVE
	GAS COCK
S rtr	
	SOLENOID OPERATED AUTOMATIC GAS SHUT OFF VALVE
(M)	WATER METER
M	GAS METER
	MIXING VALVE
۲	FLOOR DRAIN
	FLOOR SINK
\blacklozenge	POINT OF DEMOLITION TO EXISTING
\bullet	POINT OF CONNECTION TO EXISTING
$\langle I\!\!I \rangle$	FOOD SERVICE EQUIPMENT IDENTIFICATION
	TROUGH DRAIN

PLUMBING DEMOLITION NOTES

- IT IS THE INTENT THAT ALL EXISTING PIPING, DUCTWORK, FIXTURES AND OTHER EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED OR ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUI THAT ARE TO BE REMOVED, RELOCATED, REROUTED OR ABANDONED BY EACH TRADE. IT IS NOT POSSIBLE TO INI ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS. HOWEVER, THEIR REMOVAL, RELOCATIONS, RERO OR ABANDONMENT SHALL ALSO BE INCLUDED IN THIS CONTRACT AND SHALL BE DONE AT NO ADDITIONAL COST OWNER.
- EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WOR SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SU
- . ALL EXISTING PIPING TO BE DEMOLISHED MAY NOT BE SHOWN. CONTRACTOR SHALL DURING PRE-BID SITE VISIT DETERMINE EXTENT OF DEMOLITION AND INCLUDE COST OF THIS WORK IN BID. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS. UNKNOWN BELOW SLAB PIPING ENCOUNTERED DURING INSTALLATION OF NEW WORK SHALL BE REMOVED AND CAPP AT ACTIVE MAIN OR BRANCH. ALLOWANCE SHALL BE MADE FOR THESE ITEMS IN BID PRICE.
- EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN, BUT BECOME EXPOSED DUE TO NEW WORK, SHALL BE RELOCATED AND RECONNECTED AS DIRECTED BY ARCHITECT.
- . ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT AND MATERIALS SHALL BE REVIEWED WITH ARCHITECT AND OWNER BEFORE BEGINNING WORK.
- REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND S PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRA TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.
- THE CONTRACTOR MUST SURVEY AND VERIFY LOCATIONS AND PHYSICAL SIZES OF ALL EXISTING ITEMS AND DETERI WHETHER RELOCATION OR REROUTING WILL BE REQUIRED. IF RELOCATION OR REROUTING IS REQUIRED, INCLUDIN OF ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS, THE CONTRACTOR SHALL INCLUDE ALL NEC WORK AS PART OF HIS CONTRACT AND IT SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- . PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND CAPPING OF THE BUILDING'S EXISTING DOMEST WATER, SANITARY SEWER AND NATURAL GAS SERVICES AS SHOWN ON THE CONTRACT DRAWINGS. ALL REMAINING PLUMBING SYSTEMS INCLUDING PIPING, FIXTURE, EQUIPMENT, ETC., SHALL BE DEMOLISHED AND REMOVED BY OTH
- 9. PRIOR TO TERMINATION OF THE BUILDING'S EXISTING DOMESTIC WATER, SANITARY SEWER AND NATURAL GAS SERVIC PLUMBING CONTRACTOR SHALL NOTIFY AND COORDINATE THIS WORK WITH EACH RESPECTIVE UTILITY COMPANY. 10. PRIOR TO BID, CONTRACTOR SHALL FIELD INSPECT AND VERIFY SCOPE OF DEMOLITION WORK AND INCLUDE IN BID
- COSTS ASSOCIATED WITH THE DISCONNECTION AND SAFING-OFF OF THE BUILDING'S EXISTING DOMESTIC WATER, SA SEWER AND NATURAL GAS SERVICES.

	GENERAL SPECIFICATIONS			ABBREVIATIONS
1. 2. 3. 4. 5. 7. 3. 9. 10. 11.	GENERAL SPECIFICATIONS ALL PLUMBING SHALL COMPLY WITH THE 2021 EDITION OF THE NATIONAL STANDARD PLUMBING CODE AS ADOPTED BY THE STATE OF NEW JERSEY. CONTRACTOR SHALL PROVIDE AND PAY ALL FEES AND PERMITS. THE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EACT POSITIONS AND CLEARANCES. BECAUSE OF DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL RISES, DROPS, OFFSETS, VENTS, TRAPS AND RELATED SPECIAL TIES DRAWINGS AND ILSCHE PURCHANICS SNILLES AND PERMITS. THE DRAWINGS ANE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EACT POSITIONS AND CLEARANCES. BECAUSE OF DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL RISES, DROPS, OFFSETS, VENTS, TRAPS AND RELATED SPECIAL TIES AND RELATED. PROVIDE ALL SUCH PURCH, THING, HTITINS, VALUES AND SPECIALTES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA COST TO OWNER. WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN PARTICULAR TRADE INVOLVED, THAT IS, PLUMBING WORK SHALL BE PERFORMED BY MECHANICS SKILLED WORK SHALL BE PERFORMED BY ELECTRICIANS, MECHANICAL WORKED PERFORMED BY STEAM FITTERS AND SHEET METAL MECHANICS. ALL WORK SHALL BE INSTALLED THROUGH FLOORS AND FIRE RATED WALLS, SLEVES SHALL BE 2 PIPE SIZES LARGER THAN PIPE PASSING THRU AND SHALL BE SCHEDULE 40 STEEL PIPE. PROVIDE FIRE PROOF SLA BETWEEN PIPES AND SLEVES WHEN PASSING THRU FIRE RATED WALLS/FLOORS. SLEEVES PASSING THRU FLOORS SHALL BE EXTENDED 4" ABOVE FLOOR. ESCUTCHEON PLATES SHALL BE ONE PIECE, CHROME FINISHED BRONZE. COREDRILLING SHALL BE ACCOMPLISHED BY MECHANICAL MEANS IN A MAINER THAT WILL NOT AFFECT THE INTEGRITY OF THE STRUCTURE. AFTER INSTALLATION OF PIPING THRU THE COREDRILL, PACK THE ANNULAR SPACE WITH A TIRE BARRIER" MATERIAL EQUAL TO 3M "PENERTRITION SEALING SYSTEMS" SUCH AS "CP-25 CAULK", "303 PUTTY" OR 'TS-193 WRAP". APPLICATI		ABV CLG BF BLW FLR BT BFP CI CO CW CONT CWFU DF DFU DF DFU DN EC EWC E FCO FD FM FNL FPC FS FSEC G GC GI GPM GW HB HC HW HWFU HWFU HWFU HWR IW LAV MC MR MS MV N	ABBREVIATIONS ABOVE CEILING BARRIER-FREE BELOW FLOOR BATHTUB BACKFLOW PREVENTER CAST IRON CLEANOUT COLD WATER CONTINUE COLD WATER FIXTURE UNIT DRINKING FOUNTAIN DRAINAGE FIXTURE UNIT DOWN ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL WATER COOLER EXISTING FLOOR CLEAN OUT FLOOR DRAIN FORCE MAIN FUNNEL FIRE PROTECTION CONTRACTOR FLOOR SINK FOOD SERVICE CONTRACTOR GALLONS PER MINUTE GREASE INTERCEPTOR GALLONS PER MINUTE GREASE INTERCEPTOR GALLONS PER MINUTE GREASE WASTE HOSE BIBB HANDICAPPED ACCESSIBLE HOT WATER FIXTURE UNIT HOT WATER RETURN INDIRECT WASTE LAVATORY SINK MECHANICAL CONTRACTOR MOP SINK MIXING VALVE NEW
12. 13.	CUNTRACTORS PRIOR TO INSTALLATION. IF CONFLICT ARISES BETWEEN ITEMS SHOWN ON DRAWINGS AND ITEMS SPECIFIED, THE MOST STRINGENT ITEM SHALL BE USED. THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMAN-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS		PC PRV RAC RD/ORD SAN SH SK	Plumbing contractor Pressure regulating/reducing valve Run Above ceiling Roof drain/overflow Roof drain Sanitary Shower Sink
14. 15. 16. 17.	FOR SERVICE INTENDED. ALL NEW PLUMBING FIXTURES SHALL MEET THE APPROPRIATE "ANSI" STANDARDS LISTED IN THE PLUMBING SUBCODE. USE OF SUBSTANDARD AND NON-CONFORMING FOREIGN MADE PRODUCTS IS PROHIBITED. ALL PLUMBING SYSTEMS AND VALVES SHALL BE LABELED FOR PROPER IDENTIFICATION. NAMEPLATES, METAL TAGS, & PLASTIC PIPE MARKERS SHALL BE IN ACCORDANCE WITH BRIMAR IDENTIFICATION & SAFETY PRODUCTS, BRIMAR INDUSTRIES, INC. INSULATE EXPOSED WASTE & WATER PIPING BELOW HANDICAPPED LAVATORIES WITH PLUMBEREX "PRO-EXTREME" FORM FIT INSULATING COVERS. HANDICAPPED FIXTURE HEIGHTS SHALL BE IN ACCORDANCE WITH ICC/ANSI A-117.1. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH CHROME PLATED SHUT OFF VALVES (ANGLE STOPS), CHROME PLATED SUPPLIES AND P-TRAPS.		SF S/S T & P TD TW UG UNO UR V VTR V VTR W/ WB WC WCO W/D WH	SQUARE FOOT STAINLESS STEEL TEMPERATURE & PRESSURE TRENCH DRAIN / TROUGH DRAIN TEMPERED WATER UNDERGROUND UNLESS NOTED OTHERWISE URINAL VENT VENT THRU ROOF WITH WASHING MACHINE SUPPLY & WASTE BOX WATER CLOSET WALL CLEAN OUT WASHER/DRYER WALL HYDRANT
1.	HANGERS & SUPPORTS HANGERS AND ANCHORS SHALL BE SECURELY ATTACHED TO BUILDING CONSTRUCTION AT SUFFICIENTLY CLOSE INTERVALS TO SUPPORT PIPING AND ITS CONTENTS.	1. 2. 1. 2.	CONTRACTOR SH SPECIFICATIONS. CONTRACTOR SH 1 ABOVE. CONTRACTOR SH THE COMPLETIO THE COMPLETIO TWO (2) SETS ARCHITECT'S AN	ALL PROVIDE SUBMITTALS FOR ALL PIPING, VALVES, EQUIP NO WORK SHALL BEGIN UNTIL APPROVAL HAS BEEN OBT ALL SUBMIT COORDINATION DRAWINGS 1/4" SCALE MINIMU UILT" CONSTRUCTION D HALL PROVIDE (1) SET OF "AS-BUILT" DRAWINGS ON DIS N OF PROJECT. OF "AS-BUILT" DRAWINGS ON BLACKLINE PRINTS SHALL I ID ENGINEER'S USE AT THE PROJECT COMPLETION.
	 (A) VERTICAL PIPING FOR CAST IRON SHALL BE SUPPORTED AT BASE AND AT EACH STORY HEIGHT BUT NOT MORE THAN 15 FOOT INTERVALS. (B) VERTICAL PIPING FOR COPPER SHALL BE SUPPORTED AT EACH STORY HEIGHT BUT NOT MORE THAN 10 FOOT INTERVALS. (C) VERTICAL PIPING FOR STEEL SHALL BE SUPPORTED AT BASE AND AT EVERY OTHER STORY HEIGHT BUT NOT MORE THAN 15 FOOT INTERVALS. (D) HORIZONTAL PIPING FOR CAST IRON SHALL BE SUPPORTED WITH MINIMUM ONE HANGER LOCATED WITHIN 18" OF EACH JOINT, AT CHANGES IN DIRECTION, AND AT EACH BRANCH CONNECTION. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. (E) HORIZONTAL PIPING FOR COPPER SHALL BE SUPPORTED AT 6 FOOT INTERVALS FOR PIPE SIZES 1-1/4" AND SMALLER AND AT 10 FOOT INTERVALS FOR PIPE SIZES 1-1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. (F) HORIZONTAL PIPING FOR STEEL SHALL BE SUPPORTED AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/4" AND SMALLER AND AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. (F) HORIZONTAL PIPING FOR STEEL SHALL BE SUPPORTED AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/4" AND SMALLER AND AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. (G) PLASTIC PIPE SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 4 FEET, AT END OF BRANCHES, AND CHANGES OF DIRECTION OR ELEVATION. SUPPORTS SHALL ALLOW FOR FREE MOVEMENT. VERTICAL PIPE SHALL BE MAINTAINED IN STRAIGHT ALIGNMENT. TRAP ARMS IN EXCESS OF 3 FEET SHALL BE SUPPORTED AS CLOSE TO TRAP AS POSSIBLE. CARE SHALL BE TAKEN NOT TO COMPRESS, DISTORT, CUT OR ABRADE PIPING. 	1. 2. 3. 4. 5.	C C ALL WORK SHALL MAINTENANCE AN OF ALL THE BUIL THESE CONDITION FULLY COORDINAT INTERRUPTION OF SHUT-DOWN OF PERFORMED IN A THIS WORK SHAL EXISTING SYSTEM BE PERMANENTLY FULLY COORDINAT	NTINUITY OF EXISTING BE PERFORMED AT SUCH TIME AND IN SUCH MANNER D OPERATION OF OWNER'S ACTIVITIES. PROVISIONS SHALL DING AND OF EXISTING SYSTEMS AT ALL TIMES. PROVIDE NS. REMOVE TEMPORARY FACILITIES WHEN PERMANENT WO TE WITH ARCHITECT, OWNER AND ALL OTHER TRADES, ALL EXISTING SERVICES WHERE REQUIRED TO INSTALL NEW S MANNER THAT WILL NOT INTERFERE WITH OWNER'S OPEI L BE BORNE BY THE CONTRACTOR AND WITHOUT "EXTRA S AND SERVICES THAT ARE TEMPORARILY DISCONNECTED, RECONNECTED AND RETURNED TO PROPER OPERATION. TE WITH ARCHITECT, OWNER AND OTHER TRADES TO ENSI-
 2. 3. 4. 5. 6. 7. 8. 9. 	 ALL SUPPORTS COMING IN CONTACT WITH COPPER PIPING SHALL BE PLASTIC COATED. INSTALL METAL SHIELDS ON HANGERS SUPPORTING INSULATED PIPE. PROVIDE HANGERS THAT ARE U.L. LISTED AND LABELED. ALL DOMESTIC WATER, STORM & SANITARY WASTE PIPE SUPPORTS SHALL BE IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE 2021 AS ADOPTED BY THE STATE OF NEW JERSEY. PLUMBING SYSTEMS SHALL BE INSTALLED SO AS TO PREVENT STRAINS & STRESSES WHICH WILL EXCEED STRUCTURAL STRENGTH OF PIPE. PROVISIONS SHALL BE MADE FOR EXPANSION & CONTRACTION OF PIPING. ALL HANGERS IOCATED OUTSIDE OR IN CORROSIVE AREAS SHALL BE GALVANIZED. ALL HANGERS ON GALVANIZED PIPE SHALL BE GALVANIZED. MINIMUM ROD DIAMETER FOR SINGLE RIGID SUPPORTS SHALL BE AS FOLLOWS: (A) FOR 1/4" THRU 2" PIPE: 3/8"DIAMETER (B) FOR 2 1/2" AND 3" PIPE: 1/2"DIAMETER (C) FOR 4" AND 5" PIPE: 5/8"DIAMETER (E) FOR 8" THRU 12"PIPE: 7/8"DIAMETER (E) FOR 8" THRU 12"PIPE: 7/8"DIAMETER (F) FOR 14" THRU 18"PIPE: 1"DIAMETER (F) FOR ST HRU 12"PIPE: 7/8"DIAMETER (F) FOR 14" THRU 18"PIPE: 1"DIAMETER (F) RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS (3/8"DIA MIN). LONG RUNS OF DOMESTIC WATER PIPING SHALL BE SECURED TO AVOID MOVEMENT DUE TO PRESSURE FLUCTUATIONS (WATER HAMMER). 		SYSTEMS AND SE	ERVICES.

	DRA	WING SHEET INDEX (PROJECT	<u>8241)</u>	
				ISSUE
SHEET NO.	DRAWING NUMBER	DRAWING TITLE	SCALE	DATE
1	P-001	PLUMBING LEAD SHEET	N.T.S.	
2	P-002	PLUMBING DETAILS AND SCHEDULES	N.T.S.	
	PD-101	PLUMBING 2ND FLOOR DEMOLITION PLAN	1/8"=1'-0"	
3				
3 4	P-101	PLUMBING 2ND FLOOR NEW WORK PLAN - DRAINAGE	1/8"=1'-0"	
3 4 5	P-101 P-102	PLUMBING 2ND FLOOR NEW WORK PLAN - DRAINAGE PLUMBING 2ND FLOOR NEW WORK PLAN - SERVICE	1/8"=1'-0" 1/8"=1'-0"	
3 4 5 6	P-101 P-102 P-201	PLUMBING 2ND FLOOR NEW WORK PLAN - DRAINAGE PLUMBING 2ND FLOOR NEW WORK PLAN - SERVICE PLUMBING SANITARY RISER DIAGRAMS	1/8"=1'-0" 1/8"=1'-0" N.T.S.	

NOTE: LVES, EQUIPMENT, ETC IN ACCORDANCE WITH ARCHITECTURAL S BEEN OBTAINED FROM ARCHITECT/ENGINEER. CALE MINIMUM FOR REVIEW AND APPROVAL AS STATED IN NOTE

ON DRAWINGS NOTES:

NGS ON DISC IN PDF FORMAT TO ARCHITECT AND OWNER AT NTS SHALL BE SUPPLIED TO THE ARCHITECT FOR THE TION

ING SYSTEMS

MANNER AS WILL LEAST INTERFERE WITH IONS SHALL BE MADE TO PERMIT OWNER'S USE S. PROVIDE TEMPORARY FACILITIES TO SECURE RMANENT WORK HAS BEEN PLACED INTO SERVICE. TRADES, ALL WORK INVOLVING SHUT-DOWN AND

TALL NEW SYSTEMS OR ALTER EXISTING SHALL BE WNER'S OPERATIONS. ALL COSTS FOR PERFORMING

OUT "EXTRA" COST TO THE OWNER. CONNECTED, BUT ARE TO REMAIN IN USE, SHALL

ES TO ENSURE COMPLETE CONTINUITY OF ALL

	PLUMBING FIXTURE SCHEDULE													
		BASIS OF DESIGN			CONNECTION SIZE				FAUCET/FLUSHOMETER					
SYMBOL	FIXTURE	MFGR	MODEL	WASTE	VENT	CW	HW	MOUNT	MFGR	MODEL	REMARKS			
SK-1	3-STATION SINK	SLOAN	#ESS-2300	2''	1-1/2''	1/2''	1/2''	WALL	SLOAN	#OPTIMA	STAINLESS STEEL WALL MOUNTED 3-STATION SINK, PRE-PLUMBED WITH FAUCETS INCLUDED.			
SK-2	SINK	ELKAY	#LRAD221965	2''	1-1/2"	1/2"	1/2''	DROP-IN	ELKAY	#800GN08T4	STAINLESS STEEL SINK, 22" X 19.5" X 6.5", 3 HOLE CONFIGURATION. PROVIDE WITH LK99 DRAIN. 8" GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES.			
EEW/SH	EMERGENCY EYEWASH/SHOWER	ADVANTAGE SCIENTIFIC	#52GBF1909	2''	2''	-	1-1/4''	FLOOR	-	-	ADA ACCESSIBLE EMERGENCY EYEWASH/SHOWER, PROVIDE WITH EMERGENCY SHOWER MIXING VALVE - BRADLEY S19-2350 OR APPROVED EQUAL.			
FD	FLOOR DRAIN	ZURN	#Z415B	2''	-	-	-	FLOOR	-	-	6" DIA NICKEL BRONZE STRAINER, WITH PROSET WATERLESS TRAP PRIMER.			
AAV	AIR ADMITTANCE VALVE	STUDOR	#REDI-VENT	-	1-1/2''	-	-	-	-	-	LOCATE ACCESSIBLE WITHIN CASEWORK.			
TBV	THERMOSTATIC BALANCING VALVE		#CSUAS-1/2-110-CV1	-	-	-	1/2''	-	-	-	AUTOMATIC BALANCING VALVE W/ SHUTOFFS AND STRAINER, 110°F CLOSING TEMPERATURE AND OPTIONAL CHECK VALVE INSERTS.			

	ELECTRIC WATER HEATER SCHEDULE												
SYMBOL	CAPACITY (GALLONS)	WATER ENT (°F)	WATER LVG (°F)	RECOVERY (100°F RISE) (GAL/HR)	kW INPUT	# OF ELEMENTS	V/PH/HZ	FLA	OPER WEIGHT (LBS)	BASIS			
EWH-1	80	40	140	99	24	6 (4,000 WATTS EA.)	208/3/60	66.7	900	BRADFORD WHITE - MODEL CEHD80A-24-3CF			
NOTES:													

1. SEE PLUMBING SPECIFICATIONS FOR ACCESSORIES AND FURTHER REQUIREMENTS.

2. PROVIDE DRAIN PAN AND LEAK SENSOR

		A
SYMBOL	LOCATION	
ANT-1	CHEMISTRY A205	

SYMBOL	LOCATION	(
MV-1	SCIENCE STORAGE A200	

SYMBOL	LOCATION	Η
ET-1	SCIENCE STORAGE A200	
NOTES:		

1. NSF CERTIFIED FOR POTABLE SYSTEMS 2. 7 YEAR WARRANTY

SYMBOL	LOCATION	
	SCIENCE	
	STORAGE A200	
1. FURNISH WITH EXTERNAL		

PLUMBING 2ND FLOOR DEMOLITION PLAN SCALE:

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

PLUMBING DEMOLITION NOTES:

GENERAL NOTES:

- 1. REFER TO PLUMBING LEAD SHEET, P-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. 2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME
- ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.
- 3. WHERE PIPING PENETRATES AN EXISTING WALL OR SURFACE AND IS BEING ABANDONED IN PLACE, THE PIPING SHALL BE CUT BEYOND THE EXTERIOR SURFACE OF THE MATERIAL AND CAPPED. ONCE CAPPED, THE SURFACE SHALL BE PATCHED TO MATCH EXISTING SURFACES.
- 4. IN THE REMOVAL OF ANY PART OF A DRAINAGE OR WATER SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.
- 5. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND ROUTING OF ALL PIPING PRIOR TO DEMOLITION. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND MAY NOT BE AN EXACT REPRESENTATION OF FIELD CONDITIONS. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING SHUTOFF
- VALVES FOR DOMESTIC AND NATURAL GAS PIPING TO ISOLATE THE AREA OF WORK PRIOR TO DEMOLITION. 7. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME
- PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE LOCATION DESIGNATED BY OWNER.

DEMOLITION KEYED NOTES:

NUMBERED AS FOLLOWS: (A) ALL PLUMBING FIXTURES AND THEIR RELATED PIPING, ACCESSORIES, AND APPURTENANCES WITHIN CLASSROOM SHALL BE DEMOLISHED AND REMOVED UNLESS NOTED OTHERWISE. EXACT LOCATION OF ALL PIPING AND POINTS OF DISCONNECT Shall be verified in field.

<u>General</u>: Demolition notes are indicated with the following symbol $\langle \# \rangle$ and are

- $\langle B \rangle$ approximate point of disconnect to main located within 1st floor ceiling. CONTRACTOR SHALL VERIFY EXACT LOCATION IN FIELD. CAP PIPING BACK AT MAIN.
- $\langle c \rangle$ demolish and remove sink including all piping and accessories. Remove ALL COLD WATER, HOT WATER, GAS, SANITARY, AND VENT PIPING BACK TO THEIR RESPECTIVE MAINS.
- $\langle D \rangle$ demolish and remove fume hood including all piping and accessories. REMOVE SPRINKLER AND COLD WATER PIPING FEEDING SPRINKLER BACK TO MAIN.
- $\langle E \rangle$ demolish and remove sanitary piping from plumbing fixtures to point of DISCONNECT INDICATED ON DRAWINGS. EXACT LOCATION OF EXISTING SANITARY RISER AND POINT OF DISCONNECT SHALL BE VERIFIED IN FIELD.
- $\langle F \rangle$ demolish and remove emergency shower & eyewash including all piping AND ACCESSORIES. REMOVE FLOOR DRAIN AND ANY ASSOCIATED TRAP PRIMING.
- G EXISTING VENT RISER MAY BE DEMOLISHED IF THERE ARE NO EXISTING TO REMAIN PLUMBING FIXTURES BEING SERVED BY THE VENT RISER. CONTRACTOR SHALL CONFIRM IN FIELD VENT RISER IS SERVING ANY EXISTING TO REMAIN FIXTURES. CONTRACTOR MAY RE-USE VENT CONNECTION ABOVE CEILING IN NEW WORK. REMOVE SANITARY PIPING CONNECTED TO 4" SANITARY RISER AND CAP. EXISTING SANITARY LINE TO BE ABANDONED IN PLACE.

GENERAL CLASS A212	ROOM	GENERAL CLASSF A210	ROOM	BOYS TOILET R A200-c/A200-
(N)EEW/SH 5 (N)2"SAN DN 2"V RISE (EXPOSED)	(N)2 [*] VENT RISE TO (N)3 [*] VTR	(E)2"SAN DN	ALL SANITARY PIPIN THE CEILING BELC SHOWN IS LOCAT CEILING UNLES	NG SHOWN IS LOCATED IN WAND ALL VENT PIPING TED IN THE 2ND FLOOR SS NOTED OTHERWISE
(N)CO		2 [*] SAN W FLR)	(N)2"SA (BLW F (N)2"SA 1-1/2"V RISE	AN FLR) IN DN & TO AAV
	2 (N)SBO	(N)SB0 (TYP 4) 2	DISHWA	ISHER 8
	1-1 SCIENCE CLAS A209	(N)2"SAN DN & /2"V RISE TO AAV (TYP)	N)CO	
				(N)coP (1-1/2"

<u> PLUMBING 2ND FLOOR NEW WORK PLAN – DRAINAGE</u> P-101 SCALE: 1/8" = 1'-0"SCALE BAR: 1/8"=1'-0"

PLUMBING NEW WORK NOTES:

GENERAL NOTES:

- 1. REFER TO PLUMBING LEAD SHEET, P-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- 2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND
- MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES. 3. WHERE PIPING PENETRATES AN EXISTING WALL OR SURFACE AND IS BEING ABANDONED IN PLACE, THE PIPING SHALL BE CUT BEYOND THE EXTERIOR SURFACE OF THE MATERIAL AND CAPPED. ONCE CAPPED, THE SURFACE SHALL BE PATCHED TO MATCH EXISTING SURFACES.
- 4. IN THE REMOVAL OF ANY PART OF A DRAINAGE OR WATER SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.
- 5. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND ROUTING OF ALL PIPING PRIOR TO DEMOLITION. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND MAY NOT BE AN EXACT REPRESENTATION OF FIELD CONDITIONS. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING SHUTOFF
- VALVES FOR DOMESTIC AND NATURAL GAS PIPING TO ISOLATE THE AREA OF WORK PRIOR TO DEMOLITION. 7. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME
- PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE LOCATION DESIGNATED BY OWNER.

NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (-) AND ARE NUMBERED AS FOLLOWS:

- 1 CONNECT NEW SANITARY PIPING TO EXISTING SANITARY MAIN LOCATED IN 1ST FLOOR CEILING AT APPROXIMATE LOCATION.
- (2) PROVIDE NEW 2"SAN UP THROUGH FLOOR TO NEW SINK BY OTHERS. CONTRACTOR TO PROVIDE TRAP, TAILPIECE, AND OTHER ACCESSORIES AS NEEDED. INSTALL 1-1/2"SAN TO SINK AND 1-1/2"VENT RISE IN CASEWORK TO AIR ADMITTANCE VALVE (AAV). REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR SINK INFORMATION.
- (3) PROVIDE NEW 2"SAN UP THROUGH FLOOR TO NEW SINK BY OTHERS. CONTRACTOR TO PROVIDE TRAP, TAILPIECE, AND OTHER ACCESSORIES AS NEEDED. INSTALL NEW ACID NEUTRALIZATION TANK (ANT-1) BELOW SINK IN CASEWORK. REFER TO DETAIL 2/P-002 FOR PIPING DIAGRAM. CONTRACTOR SHALL UTILIZE CHEMICAL WASTE PIPING AND FITTINGS FOR AW PIPING BETWEEN SINK AND ANT-1. REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR SINK INFORMATION.
- (4) PROVIDE NEW 2"SAN UP THROUGH FLOOR TO NEW SINK (SK-1). CONTRACTOR TO PROVIDE DRAIN, FAUCET, TRAP, TAILPIECE, AND OTHER ACCESSORIES AS NEEDED. INSTALL 2"SAN TO SINK AND 1–1/2"VENT RISE IN WALL.
- (5) PROVIDE NEW 2"SAN UP THROUGH FLOOR TO NEW EMERGENCY EYEWASH/SHOWER (EEW/SH). INSTALL 2"VENT FROM EEW/SH.
- (6) provide New Floor Drain (FD). Install 2"San from FD. provide waterless TRAP GUARD.
- (7) INSTALL NEW 3" VENT THROUGH ROOF. UPSIZE VENT PIPING TO 3" BEFORE PENETRATING ROOF. CONTRACTOR MAY RE-USE EXISTING VTR LOCATIONS. ALL VTR LOCATIONS THAT NOT USED IN NEW SYSTEM SHALL BE REMOVED AND PATCHED WATERTIGHT.
- (8) NEW DISHWASHER BY OTHERS. PROVIDE NEW DRAIN LINE FROM DISHWASHER TO TAILPIECE OF ADJACENT SINK. PROVIDE AIR GAP FITTING OR LOOPED HOSE PER PLUMBING CODE.
- (9) provide New 2"SAN UP THROUGH FLOOR TO NEW SINK (SK-2). CONTRACTOR TO PROVIDE DRAIN, FAUCET, TRAP, TAILPIECE, AND OTHER ACCESSORIES AS NEEDED. INSTALL 1–1/2"SAN TO SINK AND 1–1/2"VENT RISE IN CASEWORK TO AIR ADMITTANCE VALVE (AAV).
- (10) PROVIDE NEW 2"SAN UP THROUGH FLOOR TO FUME HOOD BY OTHERS. CONTRACTOR TO PROVIDE TRAP, TAILPIECE, AND OTHER ACCESSORIES AS NEEDED. INSTALL NEW ACID NEUTRALIZATION TANK (ANT-1) IN ROOM A200. REFER TO DETAIL 4/P-002 FOR PIPING DIAGRAM. CONTRACTOR SHALL UTILIZE CHEMICAL WASTE PIPING AND FITTINGS FOR AW PIPING BETWEEN SINK AND ANT-1. REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR FUME HOOD INFORMATION.

<u> PLUMBING 2ND FLOOR NEW WORK PLAN - SERVICE</u> SCALE:

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

PLUMBING NEW WORK NOTES:

GENERAL NOTES:

- 1. REFER TO PLUMBING LEAD SHEET, P-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- 2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND
- MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES. 3. WHERE PIPING PENETRATES AN EXISTING WALL OR SURFACE AND IS BEING ABANDONED IN PLACE, THE PIPING SHALL BE CUT BEYOND THE EXTERIOR SURFACE OF THE MATERIAL AND CAPPED. ONCE CAPPED, THE SURFACE SHALL BE PATCHED TO MATCH EXISTING SURFACES.
- 4. IN THE REMOVAL OF ANY PART OF A DRAINAGE OR WATER SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.
- 5. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND ROUTING OF ALL PIPING PRIOR TO DEMOLITION. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND MAY NOT BE AN EXACT REPRESENTATION OF FIELD CONDITIONS. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING SHUTOFF
- VALVES FOR DOMESTIC AND NATURAL GAS PIPING TO ISOLATE THE AREA OF WORK PRIOR TO DEMOLITION. 7. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME
- PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE LOCATION DESIGNATED BY OWNER.

NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (-) AND ARE NUMBERED AS FOLLOWS:

- (1) CONNECT NEW COLD WATER PIPING TO EXISTING 3"CW LOCATED IN 1ST FLOOR CEILING AT APPROXIMATE LOCATION. NEW CW PIPE SIZE AS INDICATED ON DRAWING.
- (2) CONNECT NEW GAS PIPING TO EXISTING 2" GAS PIPING LOCATED IN 1ST FLOOR CEILING AT APPROXIMATE LOCATION. NEW GAS PIPE SIZE AS INDICATED ON DRAWING. PROVIDE EMERGENCY GAS SOLENOID SHUTOFF VALVE IN CEILING BELOW. EMERGENCY SHUTOFF SWITCH AND WIRING BY OTHERS.
- (3) PROVIDE NEW ELECTRIC WATER HEATER (EWH-1). INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE HOT WATER RECIRCULATING PUMP (HWRP-1), EXPANSION TANK (ET-1), AND MIXING VALVE (MV-1). REFER TO DETAIL 1/P-002. PROVIDE 1-1/2"CW, 1-1/2"HW, & 3/4" HWR ÙP THROUGH FLOOR TO EWH-1. PROVIDE DRAIN PAN WITH LEAK SENSOR.
- (4) INSTALL NEW 1/2"CW & HW UP THROUGH FLOOR TO NEW SINK BY OTHERS. CONTRACTOR TO PROVIDE STOP VALVES, ESCUTCHEONS, AND OTHER ACCESSORIES AS NEEDED. REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR SINK AND FAUCET INFORMATION.
- (5) INSTALL NEW 1/2"CW, HW, & GAS UP THROUGH FLOOR TO NEW SINK BY OTHERS. CONTRACTOR TO PROVIDE STOP VALVES, ESCUTCHEONS, AND OTHER ACCESSORIES AS NEEDED. REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR SINK, FAUCET, AND GAS TURRET INFORMATION.
- (6) INSTALL NEW 1/2"GAS UP THROUGH FLOOR TO NEW GAS TURRETS BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR GAS TURRET INFORMATION.
- (7) INSTALL NEW 1/2"CW & GAS UP THROUGH FLOOR TO NEW FUME HOOD BY OTHERS. (8) INSTALL NEW EMERGENCY EYEWASH/SHOWER (EEW/SH). CONNECT 1" CW & HW TO
- EMERGENCY SHOWER MIXING VALVE IN CEILING BELOW. PROVIDE NEW 1-1/4" TEMPERED WATER FROM MIXING VALVE UP THROUGH FLOOR TO EEW/SH.
- (9) INSTALL NEW THERMOSTATIC BALANCING VALVE (TBV). PROVIDE NEW AUTOMATIC BALANCING VALVE WITH 1/2" CONNECTIONS, STRAINER, AND SHUTOFF VALVES.
- (10) INSTALL NEW SINK (SK-1/SK-2). INSTALL NEW 1/2" CW & HW UP THROUGH FLOOR TO SINK FAUCET WITH STOP VALVES & ESCUTCHEONS.
- (11) NEW DISHWASHER BY OTHERS. PROVIDE NEW 1/2" HW LINE FROM ADJACENT SINK TO DISHWASHER.

STRUCTURAL NOTES

GENERAL NOTES:

- 1. THIS PROJECT HAS BEEN DESIGNED USING THE 2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION. 2. STRUCTURAL SPECIAL INSPECTIONS ARE A REQUIREMENT FOR THIS PROJECT. A QUALIFIED
- INDEPENDENT INSPECTION AGENCY SHALL BE SELECTED TO PERFORM THIS SERVICE. ALL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (SEE THE FOLLOWING TABULAR REFERENCES) ARE REQUIRED AT A MINIMUM. FOR STEEL CONSTRUCTION REFER TO TABLE 1704.3, FOR CONCRETE CONSTRUCTION SEE TABLE 1704.4, FOR MASONRY
- CONSTRUCTION SEE TABLE 1704.5.3, FOR SOILS SEE TABLE 1704.7. SEE THE NOTES ON THIS DRAWING FOR ANY ADDITIONAL INSPECTIONS REQUIRED. 3. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS INDICATED IN THE NOTES FOR THIS JOB. FAILURE OF THE CONTRACTOR TO READ THE STRUCTURAL NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR
- REQUIREMENTS. 4. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE
- TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS. 5. ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES INCLUDING ALL OSHA REGULATIONS. 6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE
- ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA. 7. CONTRACTOR IS FULLY RESPONSIBLE FOR HIS WORKERS' SAFETY, SAFETY EQUIPMENT, FIRST AID,
- AND EMERGENCY HANDLING PROCEDURES. 8. CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK AND SHALL BE PRESENT AT THE WORK SITE AT ALL TIMES DURING CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
- 9. THESE DRAWINGS SHALL NOT BE SCALED FOR PURPOSES OF CONSTRUCTION. 10. TYPICAL DETAILS ARE NOT NECESSARILY REFERENCED ON EVERY DRAWING SHEET AND SHALL BE USED BY THE CONTRACTOR AS REQUIRED FOR ALL CONDITIONS WHERE APPLICABLE. 11. IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND OTHER DRAWINGS OF THIS PROJECT,
- CONTRACTOR SHALL IMMEDIATELY CONTACT THE MECHANICAL ENGINEER FOR CLARIFICATION PRIOR TO START OF WORK.
- 12. ALL COLUMN LINE AND WALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE AND SHALL FIRST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE START OF THE PROJECT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING WALLS
- AND FRAMING 14. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND TEMPORARY SHORING OF THE EXCAVATIONS AND BUILDING STRUCTURE AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHEETING, SHORING, SCAFFOLDING, FORM WORK, AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.
- 15. SECTIONS SHOWN ON PLANS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING. 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS FOR THE PROJECT FOR THE FOLLOWING INFORMATION
- A. LOCATION OF ALL REQUIRED OPENINGS IN WALLS, FLOORS, ROOF, ETC. ALL OPENINGS MAY NOT BE INDICATED ON STRUCTURAL DRAWINGS. B. SIZE AND LOCATION OF ALL SLEEVES, INSERTS, AND DEPRESSIONS. C. LOCATION AND SIZE OF ALL EQUIPMENT HOUSE KEEPING PADS.

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 360-16 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS), AND WITH AISC 303-16 (CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES). QUALITY CONTROL AND QUALITY ASSURANCE DURING STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CHAPTER N OF AISC 360.
- 2. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992 (Fy = 50 KSI MIN.). ALL HSS RECTANGULAR SHAPES SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C (Fy = 50 KSI). ALL HSS ROUND SHAPES SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C (Fy = 46 KSI). ALL STEEL PIPE (STANDARD, EXTRA STRONG, DOUBLE EXTRA STRONG) SHALL CONFORM TO ASTM A53 GRADE B (Fy = 35 KSI). ALL CHANNELS, ANGLES AND PLATE
- MATERIAL SHALL CONFORM TO ASTM A36. 3. ALL BOLTS SHALL BE 3/4" DIAMETER ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS, UNLESS
- OTHERWISE NOTED. 4. ALL ANCHOR RODS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM F1554. ALL ANCHOR RODS
- SHALL BE 36 KSI UNLESS OTHERWISE NOTED. 5. ALL STEEL SHALL BE THOROUGHLY CLEANED BY POWER TOOL CLEANING (SSPC SP3) PRIOR TO
- APPLYING PRIMER OR GALVANIZING. 6. ALL STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PRIMER UNLESS OTHERWISE NOTED. ALI
- PRIMER THAT IS DAMAGED IN THE FIELD AND ALL FIELD WELDS SHALL BE TOUCHED UP WITH FIELD APPLIED PRIMER 7. ALL CONNECTIONS SHALL BE BOLTED OR WELDED. FULL DEPTH CONNECTIONS ARE TO BE USED
- ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS TO BE AT 3 INCH O/C VERTICAL PROVIDE A MINIMUM 3/8" THICK FULL DEPTH TAB PLATE FOR ALL TUBE COLUMN CONNECTIONS. 8. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE BOLTED "SNUG-TIGHT"
- UNLESS NOTED OTHERWISE. 9. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.
- 10. ALL STEEL WELDING RODS SHALL BE E70XX. 11. THE MINIMUM SIZE OF ALL FILLET WELDS SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL TABLE J2.4 UNLESS NOTED OTHERWISE. 12. STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING
- CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
- 3. THE STEEL CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO RESIST WIND LOADS, CONSTRUCTION LOADS, ETC. DURING CONSTRUCTION. BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE IS CAPABLE OF SUSTAINING ALL DESIGN LOADS
- 14. SUBMIT CHECKED STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION. 15. PERFORM INSPECTIONS OF STEEL CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

CONCRETE

- 1. THE PROVISIONS OF ACI 318-19 HAVE BEEN UTILIZED FOR THE DESIGN OF CONCRETE ELEMENTS ON THIS PROJECT. 2. FLOOR FINISH TOLERANCES FOR THE SLAB ON GRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 117. FLOOR FINISH TOLERANCE SHALL BE MEASURED USING A 10 FOOT STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 72 HOURS AFTER SLAB PLACEMENT. THE GAP AT ANY POINT BETWEEN THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4".
- 3. ALL CONCRETE SHALL BE NORMAL WEIGHT, READY-MIX. ALL CONCRETE MIX DESIGNS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONCRETE SUPPLIER ACCORDING TO THE CRITERIA CONTAINED WITHIN THESE NOTES AND AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT ALL CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTED MIX DESIGNS SHALL INCLUDE SAMPLE CYLINDER BREAK TEST
- RESULTS CONFIRMING COMPRESSIVE STRENGTH OF EACH MIX DESIGN. 4. ALL CONCRETE SHALL HAVE A WATER REDUCING ADMIXTURE AS REQUIRED TO INCREASE WORKABILITY. WORKABILITY SHALL NOT BE ACHIEVED THROUGH THE ADDITION OF WATER TO THE MIX. CONCRETE SLUMP PRIOR TO ADMIXTURE ADDITION SHALL BE A MAXIMUM OF 3 INCHES. PROPORTIONS OF CONCRETE ADMIXTURES SHALL BE DETERMINED BY THE CONCRETE MIX DESIGNER.
- 5. DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES. FLY ASH OR OTHER POZZOLANS SHALL NOT BE USED IN ANY CONCRETE UNLESS APPROVED BY THE ENGINEER. 6. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS: ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS), ACI 302.1R (GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION), ACI 304 (GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE), ACI 311.4 (GUIDE FOR CONCRETE INSPECTION), ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT), ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE), ACI 347R (GUIDE TO FORMWORK FOR CONCRETE), AND ACI 546R (GUIDE TO CONCRETE REPAIR). IN ADDITION, REFER TO THE CRSI - MANUAL OF STANDARD PRACTICE FOR DETAILS ON THE FABRICATION AND PLACEMENT OF CONCRETE REINFORCING.
- . ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHALL BE COMPRISED OF CARBON
- STEEL PLAIN WIRES FABRICATED INTO SHEETS OR ROLLS IN ACCORDANCE WITH ASTM A1064. 8. CONTRACTOR SHALL PROVIDE ALL BOLSTERS, CHAIRS, BAR POSITIONERS, ETC. AS REQUIRED TO
- SET REBAR AND SLAB WWF TO REQUIRED DIMENSIONS INDICATED ON DRAWINGS. 9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS. 10. ALL CONCRETE PLACED AT TEMPERATURES BELOW 50 DEGREES F. SHALL CONFORM TO THE REQUIREMENTS OF ACI 306R "GUIDE TO COLD WEATHER CONCRETING". ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 305R " GUIDE TO HOT WEATHER
- CONCRETING". 1. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLEEVES, INSERTS, ANCHOR BOLTS,
- AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES. 12. ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED THROUGH THE USE OF VIBRATORS. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE ALONG FORMWORK. 13. CONTRACTOR SHALL FOLLOW THE GUIDELINES IN ACI 303 - GUIDE TO CAST-IN-PLACE ARCHITECTURAL CONCRETE PRACTICE TO ACHIEVE SPECIFIED SURFACE FINISHES OF EXPOSED CONCRETE. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS ON
- 14. UNLESS OTHERWISE SPECIFIED, A TESTING AGENCY SHALL BE EMPLOYED FOR EVALUATION AND QUALITY CONTROL OF CONCRETE PLACED. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1077. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318. FREQUENCY OF CONCRETE TESTING SHALL MEET THE REQUIREMENTS OF ACI 318 AT A MINIMUM UNLESS REQUIRED OTHERWISE BY THE APPLICABLE BUILDING CODE.

- 8. "L4" DENOTES L4x4x3/8 ANGLE TO FRAME NEW OR EXISTING FLOOR OPENING.
- SEE SECTION X ON SHEET S-X FOR CONNECTION DETAILS.
- 9. DENOTES INFILL EXIST OPENING W/ METAL DECK TO MATCH EXISTING. SEE SECTIONS 4/S-200 FOR OPENINGS SMALLER THAN 8", AND
- SEE MECHANICAL DRAWINGS FO LOCATION. SEE TYPICAL DETAILS ON S-200 FOR INFORMATION.
- SECTION 1/S-200 FOR ALL OTHER NEW OPENINGS. 10. SEE MECHANICAL & PLUMBING DRAWINGS FOR ALL EQUIPMENT & PIPING LOCATIONS, SIZES, AND ATTACHMENT TO STRUCTURE.

- 6. (E) DENOTES EXISTING MEMBER.
- 7. SEE DRAWING S-100 FOR STRUCTURAL NOTES.
- 8. "L4" DENOTES L4x4x3/8 ANGLE TO FRAME NEW OR EXISTING FLOOR OPENING. SEE SECTION x ON SHEET S-x FOR CONNECTION DETAILS.
- 9. DENOTES INFILL EXIST OPENING w/ METAL DECK TO MATCH EXISTING.
- SEE SECTIONS 4/S-200 FOR OPENINGS SMALLER THAN 8", AND SECTION 1/S-200 FOR ALL OTHER NEW OPENINGS.
- 10. SEE MECHANICAL & PLUMBING DRAWINGS FOR ALL EQUIPMENT & PIPING LOCATIONS, SIZES, AND ATTACHMENT TO STRUCTURE.

DATE:

3 TYPICAL FLOOR DRAIN SUPPORT DETAIL S-200 NOT TO SCALE

STEEL/PRECAST CONCRETE LINTEL SCHEDULE (NON-LOAD BEARING WALLS & BRICK LINTELS NOT SHOWN ON PLAN)			
WIDTH OF OPENING	STEEL FOR EACH 4" OF WALL THICKNESS	REINF CONC FOR EACH 4" OF WALL THICKNESS	REINF CONC FOR EACH 6" OF WALL THICKNESS
UP TO 2'-11"	∠3 1/2 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	(1) #4 TOP & BOTTOM
3'-0" TO 3"-11"	L4 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	(1) #4 TOP & BOTTOM
4'-0" TO 4'-11"	∠5 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	(1) #4 TOP & BOTTOM
5'-0" TO 7'-0"	∠6 x 3 1/2 x 5/16	(1) #5 TOP & BOTTOM	(1) #5 TOP & BOTTOM
9'-0"	∠6 x 3 1/2 x 5/16		
NOTES FOR LINTEL SCHEDULE:			

1. ALL LINTELS SHALL HAVE 8" MINIMUM BEARING UNO. 2. PRECAST CONCRETE LINTELS SHALL HAVE A CONCRETE STRENGTH OF 3000 PSI & SHALL BE REINFORCED WITH GRADE 60 REINFORCING. 3. ALL STEEL ANGLES IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.

3/16 TYP

- EXIST STEEL JOIST (VIF - TYP)

3/16 TYP

DATE:

