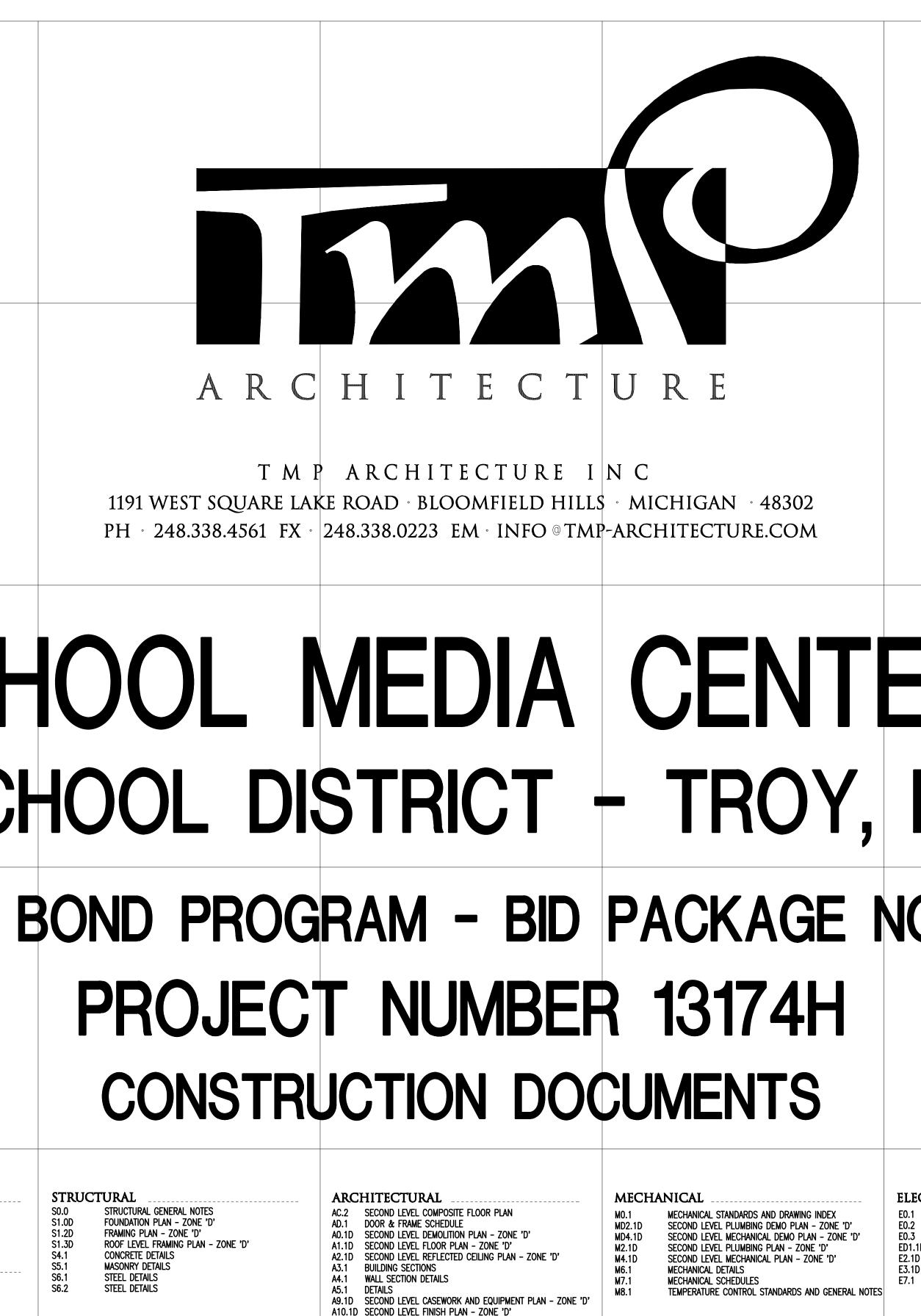
TRO				
				/ SC
				2013
CONSULTANTS: civil engineer			LIST OF D GENERAL INI TS.1 COVER SHEET TG.1 GENERAL INFO CIVIL NOT USED	
STRUCTURAL ENGINEER WILLIAM A. KIBBBE & ASSOCIATES, NC. CONSULTING ENGINEERS 1475 S. WASHINGTON AVE. SAGINAW, MI 48601 PHONE: (989) 752-5000 FAX: (989) 752-5002 MECHANICAL ENGINEER			LANDSCAPE NOT USED	
PETER BASSO ASSOCIATES NC. ELECTRICAL ENGINEERS 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48098-3276 PHONE: (248) 879-5666 FAX: (248) 879-0007 ELECTRICAL ENGINEER PETER BASSO ASSOCIATES NC. ELECTRICAL ENGINEERS 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48098-3276 PHONE: (248) 879-5666 FAX: (248) 879-5666 FAX: (248) 879-0007			FOOD SERVIC	CE EQUIPMENT
LICENSEE'S STATEMENT: This Document has been prepared under the su Responsible Charge with the firm of <u>TMP ARCHI</u> rubber stamp seal and original signature of the any copy of this Document submitted to a gove This is in conformance with the State of Michig of the Board of Architects. The Architect's seal provided hereon does not t Documentation or project requiring the services design professional. An original embossed or reference	<u>TECTURE. INC.</u> An e Architect is requernmental agency jan's PA 299, Arti take responsibility s of a licensed Pr	n original embossed or lired and shall be affixed to for approval or record. cle 20 and the General Rule for certain portions of the rofessional Engineer or other	S	TION SEALS
the Professional Engineer is required and shall Document submitted to a governmental agency firms associated with this document are listed	be affixed to any for approval or	copy of this or other record. The engineering		



A12.1D SECOND LEVEL FURNITURE PLAN - ZONE 'D' - FOR REFERENCE ONLY

		Peter Basso Associates Inc CONSULTING ENGINEERS 5145 Livernois, Suite 100 Troy, Michigan 48098-3276 Tel: 248-879-5666 Fax: 248-879-0007 www.PeterBassoAssociates.com
ER REMODE		
MICHIGAN O. 32		
2LECTRICAL 0.1 ELECTRICAL STANDARDS AND DRAWING INDEX 0.2 ELECTRICAL STANDARD SCHEDULES 0.3 SECOND LEVEL ELECTRICAL COMPOSITE PLAN 0.10 SECOND LEVEL ELECTRICAL COMPOSITE PLAN 2.10 SECOND LEVEL ELECTRICAL COMPOSITE PLAN 3.10 SECOND LEVEL ELECTRICAL COMPOSITE PLAN - ZONE 'D' 3.10 SECOND LEVEL UCHTING PLAN - ZONE 'D' 7.1 ELECTRICAL DETAILS AND DIAGRAMS	PROJECT DATA: LOCATION MAP Image: tree tree tree tree tree tree tree tr	BUILDING: CODE: <u>GOVERNING CODES :</u> - 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments) - 2015 MICHIGAN BUILDING CODE - 2015 MICHIGAN BUILDING CODE - 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN NEUHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN NENHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN MECHANICAL CODE - 2015 MICHIGAN MECHANICAL CODE - 2015 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/IESNA Standard 90.1-2007) - 2017 MICHIGAN ELECTRICAL RULES (2017 NEC, plus Part 8 Rules) - 2010 MICHIGAN ELECTRICAL RULES (2017 NEC, plus Part 8 Rules) - 2010 MICHIGAN ELECTRICAL RULES (2017 NEC, plus Part 8 Rules) - 2010 MICHIGAN BOILER FREE CODE (Michigan Building Code 2015 and ICC A117.1-2009) - 2013 MICHIGAN BOILER CODE RULES (ASME Boiler and Pressure Vessel Code, 2010 edition, plus 2011a addenda) (National Board Inspection Code [NBIC], 2011 edition) CONSTRUCTION CLASSIFICATION: II-B(MBC)/11(000)NFPA USE GROUP CLASSIFICATION: E-EDUCATION
	TROY SCHOOL DISTRICT ADMINISTRATIVE BUILDING 4400 LIVERNOIS TROY, MICHIGAN 48098 COPYRIGHT (C) The "architectural work" displayed on these documents is owned exclusively by TMP Architecture, Inc. and may not be used for any purpose without their involvement or express written consent.	USE GROUP CLASSIFICATION: E-EDUCATION

ABBREVIATIONS

\BV. \.F.F.	ABOVE ABOVE FINISH FLOOR	DMPR DMPFG	DAMPER DAMPPROOFING	HNDCP H.R.	HANDICAPPED HANDRAIL	OBS. OBS.GL.	OBSCURE OBSCURE GLASS
.R.F. BR. BS.	ABOVE REFERENCE FLOOR ABRASIVE ABSORBING	D.L. DB D.	DEAD LOAD DECIBLE DEEP	H.BD HDWE HDWD	HARDBOARD HARDWARE HARDWOOD	OFF. O.C. OPQ.	OFFICE ON CENTER OPAQUE
CC. CC. PNL	ABSORBING ACCESS ACCESS PANEL	D. DWG. DMT. PARTN	DEEP DRAWING DEMOUNTABLE PARTITION	HDWD HD HDR	HARDWOOD HEAD HEADER	OPQ. OPG. OPER.	OPAQUE OPENING OPERATOR
С. СТ	ACOUSTIC/ACOUSTICAL ACOUSTIC TILE	DEPT. DEPR.	DEPARTMENT DEPRESSED	H.A. GL. H.R.U.	HEAT ABSORBING GLASS HEAT RECOVERY UNIT	OPP. OPP.HD.	opposite Opposite hand
C. INSUL. DD.	ACOUSTIC INSULATION ADDENDUM	DES. DET.	DESIGN DETAIL	HTR HTG	HEATER HEATING	ORIG. ORN.	ORIGINAL ORNAMENTAL
DDN. DDNL. DH.	ADDITION ADDITIONAL ADHESIVE	D.E. CO. DIAG. DGM	DETROIT EDISON COMPANY DIAGONAL DIAGRAM	H/V H.V.A.C.	HEATING AND VENTILATING HEATING, VENTILATING AND AIR CONDITIONING	0Z. 0/0 0.A.	ounce out-to-out outside air
DJ. GGR.	ADJUSTIBLE AGGREGATE	DIA. DIFF.	DIAGRAM DIAMETER DIFFUSER	HHWR HHWS	HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN	0.A. 0.D. 0.F.	OUTSIDE DIAMETER OUTSIDE FACE
C.B. ⁄C	AIR CIRCUIT BREAKER AIR CONDITIONING	DIM. D.R.	DIMENSION DINING ROOM	HGT HEX.	HEIGHT HEXAGON	0.H.S. 0.A.	OVAL HEAD SCREW OVERALL
C.C. C.U.	AIR CONDITIONING COMPRESSOR AIR CONDITIONING UNIT	DIR. DISC.	DIRECTORY DISCONNECT DISCONTINUEUUS	H. H.I.D.	HIGH HIGH INTENSITY DISCHARGE	OHD OHD.DR	OVERHEAD OVERHEAD DOOR
.H.U. LT. LUM./AL	AIR HANDLING UNIT ALTERNATE ALUMINUM	DISCONT. DW DISP.	DISCONTINUOUS DISHWASHER DISPENSER	H.P. H.PR. H.S.	high point High pressure High strength	OXY.	OXYGEN
MT MP	AMOUNT	DISF. DIST. D.P.	DISFENSER DISTANCE DISTRIBUTION PANEL	н.з. H.S.B. H.V.	HIGH STRENGTH BOLT HIGH VOLTAGE	<u>P</u>	
MPL. NCH.	AMPLIFIER ANCHOR	DO DIV.	DITTO (DO OVER) DIVIDER/DIVISION	HWY HSTWY	HIGHWAY HOISTWAY	PTD PR	PAINTED PAIR
.B.	ANCHOR BOLT AND	DR. D.O.	DOOR DOOR OPENING	H.C. H.M.	HOLLOW CORE HOLLOW METAL	PG. PNL	PAGE PANEL
NG.∕Lor∠ NOD.	ANGLE ANODIZED	DR. OP. DBL.		HNYCB HK	HONEYCOMB HOOK	P.T.D. P.T.W.R.	PAPER TOWEL DISPENSER PAPER TOWEL WASTE
PT. PPR. PPROX.	APARTMENT APPROVED APPROXIMATE	D.A. D.H. DWL.	DOUBLE ACTING DOUBLE HUNG DOWEL	HORIZ. HP H.B.	Horizontal Horsepower Hose Bibb	PRL PKG	RECEPTACLE PARALLEL PARKING
RCH.	ARCHITECT/ARCHITECTURAL ARCHITECTURAL DRAWING-NO.	DWL. DN D.S.	DOWN DOWNSPOUT	H.S.P. H.V.C.	HOSE STAND PIPE HOSE VALVE CABINET	P.BD PRTN	PARTICLE BOARD PARTITION
.т. ТМ	ASH TRAY AUTOMATIC TELLER MACHINE	DRN D.T.	DRAIN DRAIN TILE	HOSP. H.W.	HOSPITAL HOT WATER	PASS. PAT.	PASSAGE PATENT
SPH. SSY.	ASPHALT ASSEMBLY	D.T.C. DWR	DRAIN TILE CONNECTOR DRAWER	HWR HWS	HOT WATER RETURN HOT WATER SUPPLY	PVMT PVG	PAVEMENT PAVING
) UTO. .S.R.	at Automatic Automatic sprinkler riser	DWG D.F. D.B.	DRAWING DRINKING FOUNTAIN DRY BULB	HR. H.O. HYD.	HOUR HUB OUTLET HYDRANT/HYDRAULIC	PED. PERF. PERIM.	PEDESTAL PERFORATED PERIMETER
UX. VG.	AUXILIARY AVERAGE	D.S.P. DBWTR	DRY STAND PIPE DUMBWAITER	H H	HYDROGEN	PERM. PERM. PERP.	PERMANENT PERPENDICULAR
		DUP. D.DR.	DUPLICATE DUTCH DOOR			P. or Ø PHOTO.	PHASE PHOTOGRAPH
				-		P.H. PC.	PHYSICALLY HANDICAPPED PIECE
•		E				PCS. PLAS.	PIECES PLASTER
/B .F.P.	BACK-TO-BACK BACK FLOW PREVENTER BACK DRAFT DAMPER	EA E.F. E.W	EACH EACH FACE EACH WAX	I.D. INCAND.	IDENTIFICATION INCANDESCENT	PL. LAM. PL. PL.	PLASTIC LAMINATE PLATE PLATE CLASS
.D.D. .F. BR	BACK DRAFT DAMPER BARRIER FREE BASE BOARD RADIATION	E.W. E FIFS	EACH WAY EAST EXTERIOR INSULATION FINISH SYSTEM	IN. or " INCIN. INCI	INCH/INCHES INCINERATOR INCLUDE/INCLUDING	PL. GL. PLAT. PLBC	PLATE GLASS PLATFORM PLUMBING
.B.R. .PL SMT	BASE BOARD RADIATION BASE PLATE BASEMENT	E.I.F.S. ELAST. ELAST. FLASH.	Exterior insulation finish system Elastomeric Elastomeric flashing	INCL. I.W. INFO.	INCLUDE/INCLUDING INDIRECT WASTE INFORMATION	PLBG PLWD PT	Plumbing Plywood Point
ыл М	BASEMENT BATH ROOM BEAM	ELAST. FLASH. ELAST. W.P. E.S.R.	ELASTOMERIC FLASHING ELASTOMERIC WATERPROOFING ELASTOMERIC SHEET ROOFING	INFO. I.D. I.F.	INFORMATION INSIDE DIAMETER INSIDE FACE	РТ Р.Т. Р.С.	POINT OF TANGENCY POINT OF CURVATURE
/C RG	BACK OF CURB BEARING	ELEC. ELEC. CL.	ELECTRIC/ELECTRICAL ELECTRICAL CLOSET	INST'L. INSUL.	INSTALL/INSTALLATION INSULATE/INSULATION	POL. PVC	Polish/polished Polyvinylcloride
.R. .M.	BEDROOM BENCH MARK	ELEC. CAB. E.C.	ELECTRICAL CABINET ELECTRICAL CONTRACTOR	INT. INTER.	INTERIOR INTERMEDIATE	PORC. PORC. ENAM.	PORCELAIN PORCELAIN ENAMEL
T ETW. EV.	BENT BETWEEN BEVEL	E- E.P. EWC	ELECTRICAL DRAWING-NO. ELECTRICAL PANEL ELECTRIC WATER COOLER	INV. I.E.	INVERT INVERT ELEVATION	POR. PORT. POS.	POROUS PORTABLE POSITION
LV. T. I.	BEVEL BITUMINOUS BLACK-IRON	EWC ELEC. OPER. EL.	ELECTRIC WATER COOLER ELECTRICALLY OPERATED ELEVATION			PUS. P.I.V. PLF	POST INDICATOR VALVE POUNDS PER LINEAR FOOT
LK LKG	BLOCK BLOCKING	ELEV. EMERG.	ELEVATOR EMERGENCY	J		PSF PSI	POUNDS PER SQUARE FOO POUNDS PER SQUARE INC
D LR	BOARD BOILER	ENCL. ENGR	ENCLOSURE ENGINEER	J.C.	JANITOR CLOSET	PCF P.P	POUNDS PER CUBIC FOOT POWER PANEL
LR. F. LR. H.	Boiler Feed Boiler House	E/E ENTR.	END-TO-END ENTRANCE/ENTRY	JT JST	JOINT JOIST	P/C P.T.R.	PRECAST PRECAST TERRAZZO RECEN
K. SH. .S. .W.	Book Shelves Both Sides Both Ways	EP. EPDM	EPOXY ETHYLENE PROPYLENE DIENE MONOMER	J.B. JR	JUNCTION BOX JUNIOR	PREFAB. PFN. P.T.WD	PREFABRICATED PREFINISHED PRESERVATIVE TREATED WO
8.W. 10T. 10T. EL.	BOTTOM BOTTOM BOTTOM ELEVATION	EQ. EQUIP.	EQUAL EQUIPMENT			P.T.WD P.G. P.R.V.	PRESERVATIVE TREATED WO PRESSURE GAUGE PRESSURE REDUCING VALV
LVD DRY	BOULEVARD BOUNDARY	EQUIV. ESC.	EQUIVALENT ESCALATOR	К		PRIM. PROJ.	PRIMARY PROJECT/PROJECTION
RKT R.	BRACKET BRASS	EST. EXC.	ESTIMATE EXCAVATED	K.P.	KICK PLATE	PROP. P.L.	PROPERTY/PROPOSED PROPERTY LINE
RKR RK	BREAKER BRICK	EXH. E.D.	EXHAUST EXHAUST DUCT	KV KVA	KILOVOLT KILOVOLT AMPHERE	P.A. P.S.	PUBLIC ADDRESS PURSE SHELF
TU RZ LDG.	British Thermal Unit Bronze Building	E.F. E.G. E.R.	EXHAUST FAN EXHAUST GRILLE EXHAUST REGISTER	KW K KIT.	KILOWATT KIP (1000#) KITCHEN	P.B.	PUSH BUTTON
.L. .U.R.	BUILDING LINE BUILT-UP ROOFING	EXIST. EXP.	EXISTING EXPANSION	K.S. K.D.	KNEE SPACE KNOCK DOWN	0	
I.N. ILKD	BULLNOSE BULKHEAD	EXP.B. E.J.	EXPANSION BOLT EXPANSION JOINT	K.O.P.	KNOCK-OUT PANEL	<u>Q</u>	
ULL. .A.	BULLETIN BURGLAR ALARM	EXPL.P. EXP'D	EXPLOSION PROOF EXPOSED	Ŧ		QTY Q.T. QTR	QUANTITY QUARRY TILE QUARTER
UZZ.	BUZZER	EXT'N EXT.	EXTENSION EXTERIOR			QTR. RD	QUARTER ROUND
3		E.I.F.S. E.H.	Exterior insulation finish System Extra heavy	LBL. LAB. LAD.	LABEL LABORATORY LADDER		
AB.	CABINET	EXTR. E.S.P.	EXTRUDED EXTERNAL STATIC PRESSURE	L.B. LAM.	LAG BOLT LAMINATE/LAMINATED	R	
.U.H. AP.	CABINET UNIT HEATER CAPACITY			LDG L-	LANDING LANDSCAPE DRAWING-NO.	RBT RAD. or R.	RABBET RADIUS
PT .R.S.	CARPET CARPET REDUCER STRIP	F		LGE LDRY		R.W.C. R.R.	RAIN WATER CONDUCTOR RAILROAD
SMT SWRK	CASMENT CASEWORK CASENIC	FAB. F/F		LAV. L.H.	LAVATORY LEFT HAND	RECV. RECPT.	RECEIVE/RECEIVING RECEPTACLE
SG .I. .I.F.	CASING CAST IRON CAST IRON FRAME	F/F F. FIN. F.C.U.	FACE-TO-FACE FACTORY FINISH FAN COIL UNIT	L.H.R.B. LGTH LEV.	left hand reverse bevel Length Level	R.P. REC.	RECEPTACLE PANEL RECESS
.I.P. STG	CAST IRON PIPE/CAST-IN-PLACE CASTING	F.S. FAS.	FAR SIDE FASTENER	LEV. LIB. LT.	LIBRARY LIGHT	RECT. RED.	RECTANGLE/RECTANGULAR REDUCER
AT. NO. .B.	CATALOG NUMBER CATCH BASIN	FDR FT or '	FEEDER FEET/FOOT	LPRF LTG	LIGHTPROOF LIGHTING	RWD REF. REFL.	REDWOOD REFER/REFERENCE REFLECTED/REFLECTIVE
LG. .D.	CEILING CEILING DIFFUSER	FPM FN	FEET PER MINUTE FENCE	L.P. L.R.P.	LIGHTING PANEL LIGHTING RECEPTACLE PANEL	REFR. REG.	REFLECTED/REFLECTIVE REFRIGERATOR REGISTER
LG. HT. EM.	CEILING HEIGHT CEMENT	F.BD. FIG.	FORM BOARD FIGURE	LTWT LTWT. CONC.	LIGHTWEIGHT LIGHTWEIGHT CONCRETE	REINF.	REINFORCE/REINFORCING/ REINFORCEMENT
em. plas. Tr	CEMENT PLASTER CENTER CENTERI INF	FIN. FIN. FLR/F.F.	FINISH/FINISHED FINISH FLOOR FINISH TUBE BADIATION	LMS LTL	LIMESTONE LINTEL LINEAR DIFFUSER	REM. REP.	REMOVE/REMOVABLE REPAIR
/C ER.	CENTERLINE CENTER-TO-CENTER CERAMIC	F.T.R. F.A. F.A.C.P.	FINNED TUBE RADIATION FIRE ALARM FIRE ALARM CONTROL PANEL	LIN. DIFF. L.F. LIQ	Linear Diffuser Linear Feet/foot Liquid	REQ'D. RESIL.	REQUIRED RESILIENT
.T. .BD.	CERAMIC TILE CHALKBOARD	F. BRK F.D.	FIRE BRICK FIRE DAMPER	LPG L.P.G.	LIQUID PROPANE GAS LIQUID PETROLEUM GAS	RET. R.A. R.A.D.	return Return Air Return Air Diffuser
HAM. HG.	CHAMFER CHANGE	F.E. F.E.C.	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	L.L. L.R.	LIVE LOAD LIVING ROOM	R.A.D. R.A.F. REV.	RETURN AIR DIFFUSER RETURN AIR FAN REVISED/REVISION
HAN. or E HKD. PL. HWR	CHANNEL CHECKERED PLATE CHILLED WATER RETURN	F.H.C. F.H. F.L.	FIRE HOSE CABINET FIRE HYDRANT FIRE LINE	LOC. LKR LG	LOCATION LOCKER LONG	RPM R.	REVOLUTIONS PER MINUTE
HWS HD	CHILLED WATER RETORN CHILLED WATER SUPPLY CHORD	F.L. F.R. F.R.T.WD	FIRE RETARDANT/FIRE RATED FIRE RETARDANT TREATED WOOD	LG L.L.H. L.L.V.	LONG LONG LEG HORIZONTAL LONG LEG VERTICAL	R.H. R.H.R.B.	RIGHT HAND RIGHT HAND REVERSE BEV
RCUM. R.	CIRCUMFERENCE CIRCLE/CIRCULAR	F.V.C. FP.	FIRE VALVE CABINET FIREPLACE	LVR L.O.	LOUVER LOUVER OPENING	R.O.W. RVT RD	RIGHT OF WAY RIVET ROAD
RC. .BR	CIRCUIT CIRCUIT BREAKER	FPRFG. FIXT.	FIREPROOFING FIXTURE	L.P. L.PR.	Low Point Low Pressure	RD R.S.C. RF	ROAD ROLLING STEEL CURTAIN ROOF
- _RM	CIVIL DRAWING-NO. CLASS CLASSROOM	FLASH. FHMS FHWS	FLASHING FLAT HEAD MACHINE SCREW FLAT HEAD WOOD SCREW	LBR LBS. or #	LUMBER POUNDS	R.C. R.D.	ROOF CONDUCTOR ROOF DRAIN
_RM _R	CLASSROOM CLEAN OUT CLEAR	FHWS F.C. FLR	FLAT HEAD WOOD SCREW FLEXIBLE CONNECTION FLOOR			RF.H. R.S.	ROOF HATCH ROOF SUMP
LR GL LR W.GL	CLEAR GLASS CLEAR WIRE GLASS	F.C.O. F.D.	FLOOR CLEAN OUT FLOOR DRAIN			R.V. RFG	ROOF VENTILATOR ROOFING
 _0.	CLOSET CLOSURE	FLR. FIN. FLUOR.	FLOOR FINISH FLUORESCENT	<u>M</u>		R.T.U. RM	ROOF TOP UNIT ROOM BOUCH OPENING
.CL. DEF.	COAT CLOSET COEFFICIENT	FLDG FTG	FOLDING FOOTING	MACH. M.B.	MACHINE MACHINE BOLT	R.O. RND or Ø RHMS	Rough opening Round Round Head Machine Sc
N DL.	COLD WATER COLUMN COMPANY	FM. BD FDN	FORMBOARD FOUNDATION	MACH. RM M.A.U.	MACHINE ROOM MAKE-UP AIR UNIT MAIN DISTRIBUTION DANEL	RHWS R.T.	ROUND HEAD MACHINE SC ROUND HEAD WOOD SCRE RUBBER TILE
0. OMPT. OMPO.	COMPANY COMPARTMENT COMPOSITION	FR. FR/COV. FRMG	FRAME FRAME AND COVER FRAMING	M.D.P. M.S.B. MAINT.	MAIN DISTRIBUTION PANEL MAIN SWITCH BOARD MAINTENANCE		
A OMPR.	COMPRESSED AIR COMPRESSOR	FRZR F.S.	FREEZER FULL SIZE	MH. MFR	MANHOLE MANUFACTURER	S	
ONC. .M.U.	CONCRETE CONCRETE MASONRY UNIT	FURN. FURR.	FURNISH/FURNISHED FURRING/FURRED	MAR. MK	MARBLE MARK	SAN. S.N.D.	SANITARY SANITARY NAPKIN DISPENS
N R	CONDENSING WATER RETURN CONDENSING WATER SUPPLY	FUT.	FUTURE	MAS. M.O.	MASONRY MASONRY OPENING	S.N.D. S.N.R. SCHED.	SANITARY NAPKIN DISPENS SANITARY NAPKIN RECEPT/ SCHEDULE
NS DND	CONDUIT CONFERENCE	G		MATL MAX. MECH.	MATERIAL MAXIMUM MECHANICAL	SCN STG	SCREEN SEATING
OND. ONF.		<u> </u>	GAUGE	MECH. M- M.C.	MECHANICAL MECHANICAL DRAWING-NO. MEDICINE CABINET	SECT. SERV.	SECTION SERVICE
OND. ONF. ONN. ONST.	CONNECT CONSTRUCTION	GA.		MED.	MEDIUM MEMBRANE	S.S. SHTHG	SERVICE SINK SHEATHING SHEET
OND. ONF. ONN. ONST. J. ONT. ONTR.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR	GA. GAL. GPH	GALLON GALLONS PER HOUR	MEMB.		SHT	SHEET
OND. ONF. ONN. ONST. J. ONT. ONTR. .P. ONV.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR	GAL. GPH GPM GALV.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED	MET. M.D.S.	METAL METAL DIVIDER STRIP	SHT. MET.	SHEET METAL SHELE AND ROD
ond. onf. onst. J. ont. ontr. .P. onv. NVyr or.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER	GAL. GPH GPM GALV. GALV. I. G	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS	MET. M.D.S. M.E.S. M.L.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH	SHT. MET. SH.& R. SHWR	SHELF AND ROD SHOWER
ond. onf. onst. J. ont. ont. .P. onv. nvyr or. .g. orr.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER CORNER CORNER CORNER GUARD CORRIDOR/CORRUGATED	GAL. GPH GPM GALV. GALV. I. G GSKT G.V.& B.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX	MET. M.D.S. M.E.S. M.L. M.L.& PLAS. M.T.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W.	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK
OND. ONF. ONF. ONST. J. ONTR. ONTR. ONV. NVYR OR. ORR. PR NTR	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER CORNER CORNER CORNER GUARD CORRIDOR/CORRUGATED COPPER COUNTER	GAL. GPH GPM GALV. GALV. I. G SKT G.V.& B. GEN'L. GL.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL GLASS	MET. M.D.S. M.E.S. M.L. M.L.& PLAS. M.T. MET. W.P. MEZZ.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING MEZZANINE	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL.	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE
ond. onf. onst. J. ont. ontr. .P. ontr. onv. Nvyr or. .G. R orr. tsk rs.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER CONTROL DOINT CONTROL DOINT CONTROL DOINT CONTROL DOINT CONTROL PANEL CONTROL DOINT CONTROL PANEL CONTROL DOINT CONTROL PANEL CONTROL PANEL CONTROL CONTROL PANEL CONTROL PANEL CONTROL CONTROL PANEL CONTROL CONTROL PANEL CONTROL CONTROL PANEL CONTROL CONTROL PANEL CONTROL CONTROL PANEL CONTROL CONTROL PANEL CONTROL PANEL	GAL. GPH GPM GALV. GALV. I. G GSKT G.V.& B. GEN'L.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL	MET. M.D.S. M.E.S. M.L. M.L.& PLAS. M.T. MET. W.P.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL. SK S.D.	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER
ond. onf. onst. J. ontr. ontr. P. onv. NVYR or. G. ORR. PR NTR KSK. OV. PL. .C.T.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONVECTOR CONVECTOR CORNER CORNER CORNER GUARD CORRIDOR/CORRUGATED COPPER COUNTER COUNTER COUNTER COUNTERSINK COURSE COVER COVER COVER COVER PLATE CUBICAL CURTAIN TRACK	GAL. GPH GALV. GALV. I. G GSKT G.V.& B. GEN'L. GL. GL. GLZ G.H.T. GR. GR. GB	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL GLASS GLAZING GLAZED HOLLOW TILE GRAB BAR GRADE/GRILLE GRADE BEAM	MET. M.D.S. M.L. M.L.& PLAS. M.T. MET. W.P. MEZZ. MDOT MWK MIN. MIR.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING MEZZANINE MICHIGAN DEPARTMENT OF TRANSPORTATION MILLWORK MINIMUM MIRROR	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL. SK S.D. S.C. STC	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER SOLID CORE SOUND TRANSMISSION CLA
DND. DNF. DNN. DNST. J. DNT. DNTR. P. DNV. VVYR DR. G. DORR. PR VTR FSK RS. DV. PL. C.T. J.FT. FM	CONNECT CONSTRUCTION CONTROL JOINT CONTROL JOINT CONTRACTOR CONTRACTOR CONVECTOR CONVEYOR CORNER CORNER CORNER CORNER CORNER CORRIDOR/CORRUGATED COPPER COUNTER COUNTERSINK COUNTERSINK COURSE COVER COUNTER COVER COUNTER COURSE COURSE COURTER COURCE PLATE CUBIC FEET CUBIC FEET COUNTER COUNTE	GAL. GPH GPM GALV. I. GALV. I. GSKT G.V.& B. GEN'L. GL. GL. G.J. G.H.T. G.B. GR. GB GRAT. G.L.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL GLASS GLAZING GLAZED HOLLOW TILE GRAB BAR GRADE/GRILLE GRADE BEAM GRATING GRID LINE	MET. M.D.S. M.E.S. M.L.& PLAS. M.T. MET. W.P. MEZZ. MDOT MWK MIN. MIR. M.& S. MISC.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING MEZZANINE MICHIGAN DEPARTMENT OF TRANSPORTATION MILLWORK MINIMUM MIRROR MIRROR AND SHELF MISCELLANEOUS	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL. SK S.D. S.C. STC S SP.	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER SOLID CORE SOUID TRANSMISSION CLA SOUTH SPACE
OND. ONF. ONF. ONF. J. ONT. J. ONTR. J. ONTR. J. ONV. NVYR OR. J. ORR. NTR SS. OV. PL. J. C.T. J. FM Y ULV.	CONNECT CONSTRUCTION CONTROL JOINT CONTROL JOINT CONTRACTOR CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER CORNER CORNER CORRIDOR/CORRUGATED COPPER COUNTER COUNTER COUNTER COUNTERSINK COURSE COVER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COV	GAL. GPH GPM GALV. I. G GSKT G.V.& B. GEN'L. GL. GL. GL. G.H.T. G.B. GR. GR. GB GRAT. G.L. GRN G.S.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL GLASS GLAZING GLAZED HOLLOW TILE GRAD BAR GRADE/GRILLE GRADE BEAM GRATING GRID LINE GRANITE GREASE SEPARATOR	MET. M.D.S. M.E.S. M.L. M.L.& PLAS. M.T. MET. W.P. MEZZ. MDOT MWK MIN. MIN. MIR. MIR. MISC. M.I. MOD.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING MEZZANINE MICHIGAN DEPARTMENT OF TRANSPORTATION MILLWORK MINIMUM MIRROR MIRROR AND SHELF MISCELLANEOUS IRON MODEL	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL. SK S.D. S.C. STC SP. SPR. SPKR	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER SOLID CORE SOUND TRANSMISSION CLA SOUTH
WS OND. ONF. ONST. JONTR. JONTR. JONTR. JONTR. JONTR. JONTR. JORR. SCR. PR NTR SS. OV. PL. JOR. JULV. JULV. JULV. JULV. JULV. JULV. JULV. JULV. JULV.	CONNECT CONSTRUCTION CONTROL JOINT CONTINUE/CONTINUOUS CONTRACTOR CONTROL PANEL CONVECTOR CONVEYOR CORNER CORNER CORNER CORNER CORRIDOR/CORRUGATED COPPER COUNTER COUNTER COUNTER COUNTERSINK COURSE COVER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COUNTER COVER COVER COVER COVER COVER COVER COUNTER COUNTER COUNTER COVER COUNTER COUNTER COUNTER COVER COVER COVER COVER COUNTER COUNTER COUNTER COVER COVER COVER COVER COUNTER COUNTER COUNTER COUNTER COVER	GAL. GPH GPM GALV. I. GSKT G.V.& B. GEN'L. GL. GL. GL. G.H.T. G.B. GR. GR. GR. GR. GR.	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GALVANIZED IRON GAS GASKET GATE VALVE AND BOX GENERAL GLASS GLAZING GLAZED HOLLOW TILE GRAB BAR GRADE/GRILLE GRADE BEAM GRATING GRID LINE GRANITE	MET. M.D.S. M.E.S. M.L. M.L.& PLAS. M.T. MET. W.P. MEZZ. MDOT MWK MIN. MIR. M.& S. MISC. M.I.	METAL DIVIDER STRIP METAL EDGE STRIP METAL LATH METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING MEZZANINE MICHIGAN DEPARTMENT OF TRANSPORTATION MILLWORK MINIMUM MIRROR MIRROR AND SHELF MISCELLANEOUS MISCELLANEOUS IRON	SHT. MET. SH.& R. SHWR S.C.R. S.DR S.W. SIM. SGL. SK S.D. S.C. STC SP. SPR.	SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER SOLID CORE SOUND TRANSMISSION CLA SOUTH SPACE SPARE SPEAKER

GROUND FAULT INTERRUPTOR GROUT GUTTER ELEVATION GYPSUM GYPSUM BOARD

G. GYP. GYP.BD.

M.S.&S. MOP STRIP AND SHELF M.O.D. MOTOR OPERATED DAMPER MLDG MOULDING MTD MOUNTED MTG MEETING/MOUNTING MOV. MOVEABLE MOV. PARTN. MOVEABLE PARTITION MULL MULLION M THOUSAND (1000) STAG. ST.STL STL STL. PL. STIFF. STO. FR. STOR. STR.

S.P. STA.

STM

STRUCT.

S-S.G.F.T. S.STL SS.D. SUB. S.A.G. S.D. SUBST. S.A.R. S.F.

NATURAL NEAR SIDE NEUTRAL NOISE REDUCTION COEFFICIENT NOMINAL NORMAL NORTH NOSING NOT-IN-CONTRACT NOT-TO-SCALE NUMBER NAT. N.S. NEUT. NOM. NOR. N NOS. N.I.C. N.T.S. NO. or #

SPRATED SPRINKLER SQUARE SQUARE FEET/SQUARE FOOT STAGGERED STAINLESS STEEL STANDARD STANDPIPE STANDPIPE STAND PESSURE STANDPIPE STATIC PRESSURE STATION STEAM STEEL STEEL PLATE STOREFRONT STORAGE STRAIGHT STREET STRUCTURAL STRUCTURAL DRAWING-NO. STRUCTURAL GLAZED FACING TILE STRUCTURAL STEEL SUBSOIL DRAIN

SUBSOIL DRAIN SUBSOIL DRAIN CONNECTION

SUBSILE DRAIN CONNECTIO SUBSTATION SUPPLY AIR GRILLE SUPPLY DIFFUSER/ DUCT SUSTITUTE SUPPLY AIR REGISTER SUPPLY FAN

TYPICAL MOUNTING HEIGHTS

SW.

SWBD SWGR SYM

SYS. SUPP.

SURF. SUSP.

T.BD

TECH.

TV.M

TERR

TEL. CAB

TEMP. TEMP. GL

THRESH. THRU

T./ TOIL.

T.P.D. T.P.H.

T & G

Т&В

T/F

T/S

T.B.

T.G.

TRFR TRAN

TYP.

IJ

U.C

U.G

UNFIN. U.H. U.SUB.

U.V.

USGS

U.O.N.

VAC.

V.B. V.C.O.

V. BARR VAR. VARN. VNR

VTR

VENT **V.I.F.**

VS. VERT. VERT. C

VEST.

VIN. FAB.

V.R.S.

VIT.

VCP VOL. V.D.

WAINS. W.CAB. W.C.O.

W.H.

W/W

WHSE

V & W

W.R. W.C.

W.G.

W.H.

W.PRFG. W.STPG.

W.W.F.

W.B.

W_x_

W.O.

W.M.

YD Y.P.

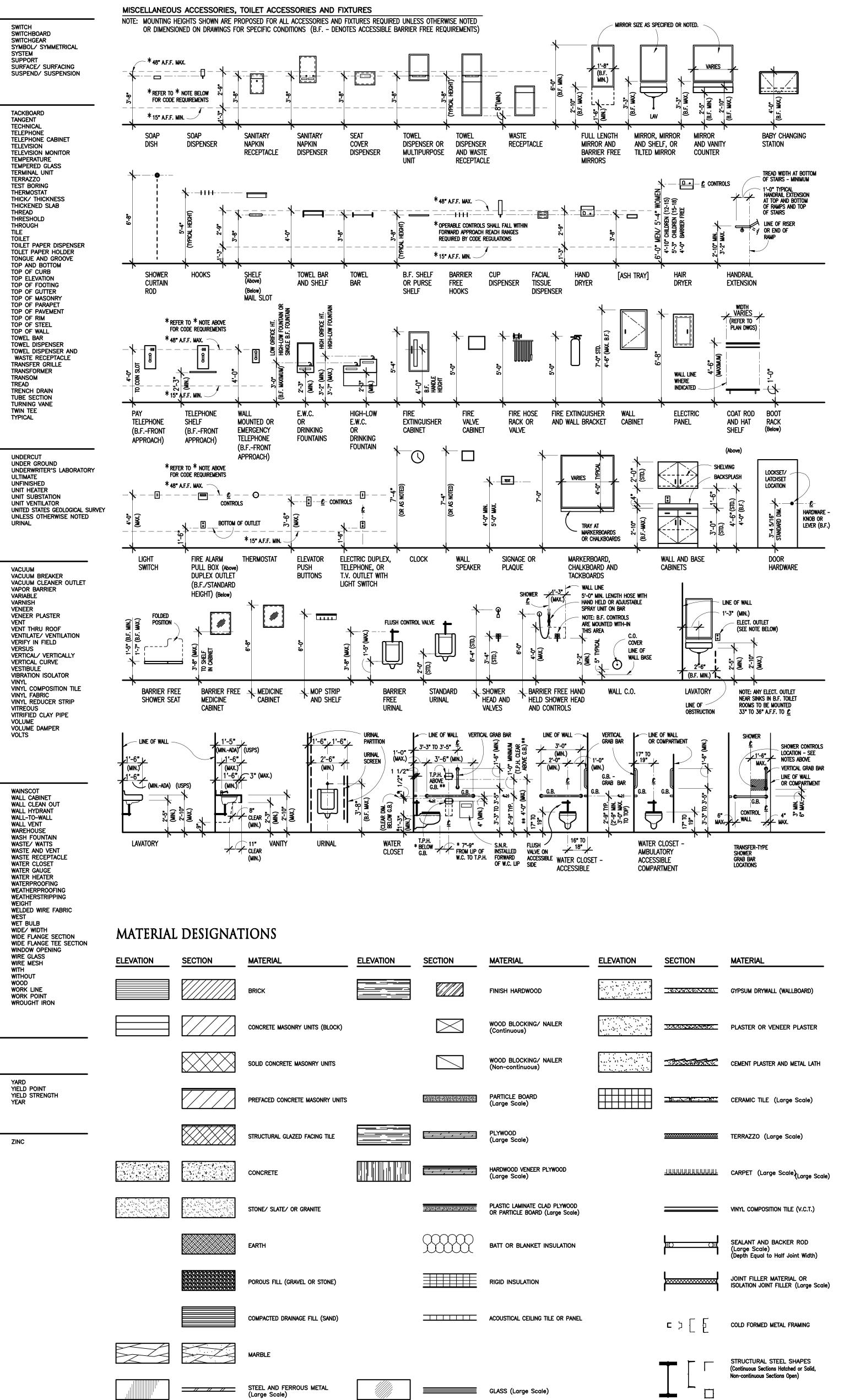
Y.S.

ZC

W.GL.

V. PLAS.

TD & WR



ALUMINUM AND NON-FERROUS METAL (Large Scale)

GLASS (Small Scale)



DETAIL IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DI	RAWN OR REFERENCED)
1. DETAIL TITLE	
A1.1 SCALE: 1/8" = 1'-0" SHEET IDENTIFICATION NUMBER	
(INDICATES SHEET NUMBER WHERE D SHEET NUMBER(S) TO REFER TO WH SHEET WHERE THE DETAIL IS DRAWN	EN REFERENCED ON THE
DETAIL LOCATION INDICATION	
DETAIL IDENTIFICATION NUMBER	
A1.1 (WALL SECTIONS)	A1.1 (PLAN SECTIONS)
SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE D	DETAIL IS DRAWN)
DETAIL LOCATION INDICATION FOR ENLARGE	D PLANS
DETAIL IDENTIFICATION NUMBER	$\left(\begin{array}{c} \end{array} \right)$
	j
SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE D	DETAIL IS DRAWN)
(SAME NUMBER ON SHEET WHERE DI	RAWN OR REFERENCED)
$\begin{array}{c} (1,) \\ \hline A1,1 \end{array} \xrightarrow{\text{SECTION TITLE}} \\ \hline SCALE: 1/8" = 1'-0" \end{array}$	
SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE S	SECTION IS DRAWN OR
SHEET NUMBER(S) TO REFER TO WH SHEET WHERE THE SECTION IS DRAW	EN REFERENCED ON THE N)
SECTION LOCATION INDICATION	
(INDICATES SHEET NUMBER WHERE S	
ELEVATION IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DI	RAWN OR REFERENCED)
1. ELEVATION TITLE	
A1.1 SCALE: 1/8" = 1'-0"	
SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE E SHEET NUMBER(S) TO REFER TO WH	EN REFERENCED ON THE
SHEET WHERE THE ELEVATION IS DRA	wn)
ELEVATION IDENTIFICATION NUMBER(S (SAME LETTER ON SHEET WHERE DR/	S) AWN OR REFERENCED) 1.
1. A1.1 INDICATES DIRECTION OF VIEW OR MU	JLTIPLE VIEWS 4. A1.1 2.
SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE E	CLEVATION IS DRAWN)
MATCH LINE INDICATION	
SHEET IDENTIFICATION NUMBER	
(INDICATES SHEET NUMBER OF DRAW	ZONE 'A' A1.1
A1.2 ZONE 'B' SHEET IDENTIFICATION NUMBER	ZONE 'B' A1.2
(INDICATES SHEET NUMBER WHERE D	RAWING IS CONTINUED)
DOOR SWING INDICATION- NEW DOOR DOOR SWING IN EXISTING DOOR	
NEW DOOR EXISTING DOOR	EXISTING DOOR TO BE REMOVED
NEW DOOR EXISTING DOOR	
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A
NEW DOOR EXISTING DOOR	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS:
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS
NEW DOOR EXISTING DOOR EXISTING EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING EXISTING DOOR EXISTING EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING DOOR EXISTING EXISTING EXISTING DOOR EXISTING EXISTING EXISTING DOOR EXISTING EXIS EXISTING EXIS EXISTING EXISTING EXISTING EXISTING EXISTING	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS
NEW DOOR EXISTING DOOR	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS
NEW DOOR EXISTING DOOR	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER SIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. DOR IDENTIFICATION BY FLOOR AND/OR COR IDENTIFICATION BY FLOOR AND/OR CONS SHALL BE AS FOLLOWS: MIST FLOOR DOORS (MONT) ZONE C * C101 IT ZONE C * C101 IT<
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION NUMBER TOOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A A101 FIRST FLOOR DOORS 001 ZONE C C101 THIRD FLOOR DOORS 001 ZONE C C101 It CONTINUES FOR AS MANY FLOORS REQUIRED. COLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION A COLUMN IDENTIFICATION LETTER OR COLUMN IDENTIFICATION LETTER OR COLUMN IDENTIFICATION LETTER OR	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 01 ZONE A * A101 HIST FLOOR DOORS 01 ZONE A * A101 ITIND FLOOR DOORS 01 ZONE C * C101 ITIND TONTINUES FOR AS MANY FLOORS REQUIRED. MANT FLOOR STERVER DOTTINUES FOR AS MANY FLOORS REQUIRED. MANT FLOOR NORTH IF NOT TO BUS NORTH IF NOT TO BUS NORTH IF NOT TO BUS NORTH IF NOT SUP
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A A101 FIRST FLOOR DOORS 001 ZONE A A101 FIRST FLOOR DOORS 001 ZONE A A101 FIRST FLOOR DOORS 001 ZONE C C101 IND ECOND FLOOR DOORS 201 CONTINUES FOR AS MANY FLOORS REQUIRED. ECOLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION Image: Column IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION COLUMN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. D1 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: MARCENT DOORS (MORE) MARCENT DOORS (MORE) </td
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NUMBE 101 ROOM IDENTIFICATION NUMBER IDI ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A *** A101 MEXT FLOOR DOORS 001 ZONE A **** A101 MEXT FLOOR DOORS 001 ZONE C **** C101 MEXT FLOOR DOORS 001 ZONE C **** C101 MEXT FLOOR DOORS 001 ZONE C ***** C101 MEXT FLOOR DOORS 001 ZONE C ***** MEXT FLOOR DOORS COLUMN IDENTIFICATION LETTER OR MUMBER FOR NEW CONSTRUCTION COLUMN IDENTIFICATION LETTER OR MUMBER FOR EXISTING CONSTRUCTION A	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM NAME 101 ROOM IDENTIFICATION NUMBER TOOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A ** A101 FIRST FLOOR DOORS 001 ZONE A ** A101 FIRST FLOOR DOORS 001 ZONE A ** A101 SECOND FLOOR DOORS 001 ZONE A ** A101 WILL TUPE NOTATION COLUMN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION WALL CONSTRUCTION TYPE NUMBER	<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE TOT TOT TOT TOT TOT TOT TOT TOT TOT TO	<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NUMBER 101 ROOM IDENTIFICATION BY FLOOR AND/OR CONM IDENTIFICATION BY FLOOR AND/OR SAMPLE SOM IDENTIFICATION BY FLOOR AND/OR CONS SHALL BE AS FOLLOWS: BASEMENT DOORS MELLOOR DOORS SECOND FLOOR DOORS THEOR DOORS CONTINUES FOR AS MANY FLOORS REQUIRED. CONTINUES FOR AS MANY FLOORS REQUIRED. COLUMN IDENTIFICATION LETTER OR MUMBER FOR NEW CONSTRUCTION MALL CONSTRUCTION LETTER OR NUMBER FOR REW CONSTRUCTION MUMBER FOR REW CONSTRUCTION	<section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header>
NEW DOOR EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NAME 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A *** A101 FIRST FLOOR DOORS 001 ZONE A *** A101 FIRST FLOOR DOORS 001 ZONE A *** A101 FIRST FLOOR DOORS 001 ZONE A **** A101 SECOND FLOOR DOORS 001 ZONE A ***********************************	<section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header>
NEW DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM INAME 101 ROOM IDENTIFICATION NUMBER TOOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS OINT ZONE A *** A101 FIRST FLOOR DOORS FIRST FLOOR DOORS OINT ZONE A *** A101 FIRST FLOOR DOORS THIRD FLOOR DOORS OINT ZONE A *** A101 FIRST FLOOR DOORS COLOND DOORS OINT ZONE A *** A101 FIRST FLOOR DOORS CONTINUES FOR AS MANY FLOORS REQUIRED. COLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION A COLUMIN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION A COLUMIN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION A COLUMIN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION A WALL CONSTRUCTION TYPE NUMBER AS LISTED IN WALL TYPE LEGEND' BESCRIPTION ORIGINATES AT WALL SURFACE DESIGNATED CEYED NOTE IDENTIFICATION NUMBER AS LISTED IN 'NOTES' LEGEND. (PLAN NOTATION) CONTE IDENTIFICATION NUMBER AS LISTED IN 'NOTES' LEGEND.	<section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header>
NEW DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	<section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header>
NEW DOOR ROOM NAME AND NUMBER INDICATION SAMPLE ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: MARE AND NUMBER AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	EXISTING DOOR TO BE REMOVED DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROSSIGNED TO ROOM. MULTIPLE DOORS TO SOUTH A TOTAL FOR EACH ADDITIONAL DOOR TO ROUTH INTERPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOR REQUIRED. DI / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE DENTIFICATION DOORS TO ZONE A TO TO CONTINUES FOR AS MANY FLOORS REQUIRED. ONTINUES FOR AS MANY FLOORS
EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NOM IDENTIFICATION NUMBER INDICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: MAME ZONE A A101 FIRE FLOOR DOORS	<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>
EXISTING DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NAME 101 ROOM IDENTIFICATION NUMBER TOOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS 001 ZONE A ··· A101 FIRST FLOOR DOORS 101 ZONE A ··· A101 FIRST FLOOR DOORS 101 ZONE A ··· A101 SECOND FLOOR DOORS 201 ZONE A ··· A101 INTRO FLOOR DOORS 101 ZONE A ··· A101 SECOND FLOOR DOORS 201 ZONE A ··· A101 INTRO FLOOR DOORS 201 ZONE C ··· C101 INTRO FLOOR DOORS 201 ZONE C ··· C101 INTRO FLOOR DOORS 201 ZONE C ··· C101 INTRO FLOOR DOORS COLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION MUMEER FOR NEW CONSTRUCTION STRUCTION MUMBER FOR NEW CONSTRUCTION MUMBER MUMBER FOR NEW CONSTRUCTION TYPE NUMBER AS LISTED IN 'WALL TYPE LEGEND. MUL CONSTRUCTION TYPE NUMBER MUL CONSTRUCTION ORGINATES AT WALL SURFACE DESIGNATES AT WALL SURFACE DESIGNATES AT WALL SURFACE DESIGNATES AT WALL SURFACE DESIGNATES. MUL CONSTRUCTION NUMBER	<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>
NEW DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NUMBE 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: BASEMENT DOORS	<section-header><section-header></section-header></section-header>
NEW DOOR ROOM NAME AND NUMBER INDICATION SAMPLE NUMBE 101 ROOM IDENTIFICATION NUMBER ROOM IDENTIFICATION BY FLOOR AND/OR CONTINUES SHALL BE AS FOLLOWS: BASEMENT DOORS	<section-header><section-header></section-header></section-header>



DRAWING NO.



PROJECT NO.

ISSUE DAT	ΓES	
	•	
•	•	
	•	
	•	
·		
	·	
1-15-2021	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN	JRB	
CHECKED		
APPROVED	JRR	

General Information

DRAWING TITLE

Troy School Diustrict Troy, Michigan

Troy High School Media Center Remodeling **Bid Package No.32**

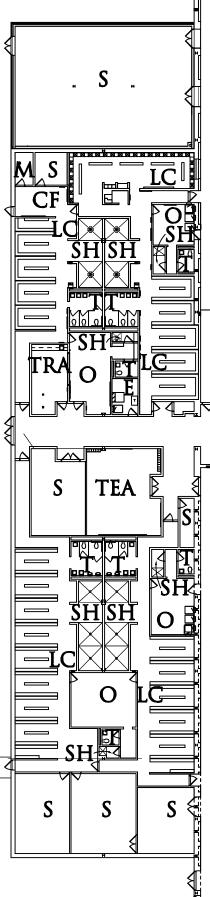
PROJECT TITLE

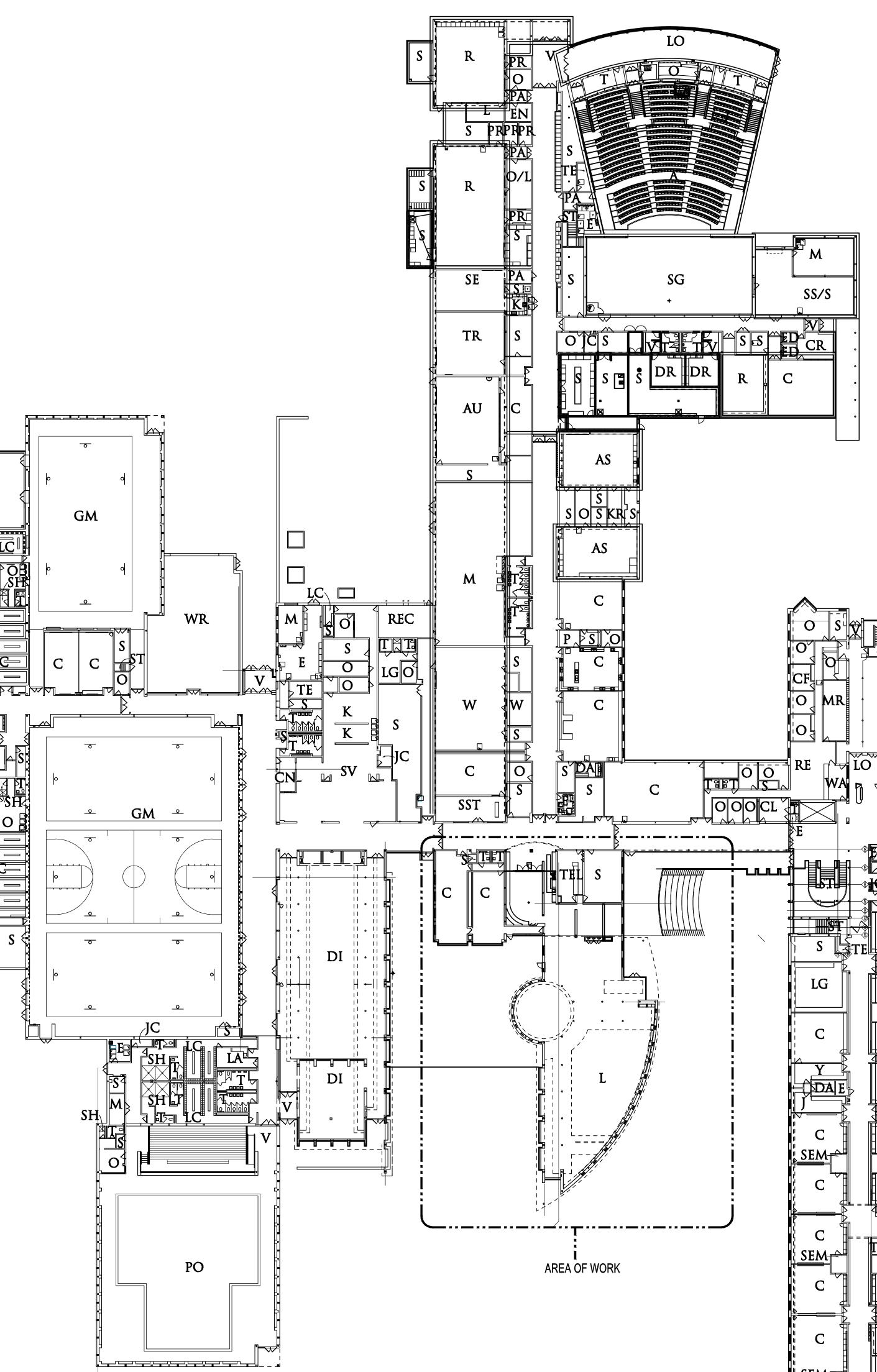
CONSULTANT

REGISTRATION SEAL

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM









2. CONSTRUCTION CLASSIFICATION TYPE II-000 (NFPA) & II-B (MBC)

3. USE CLASSIFICATION "E"

LO CCR W SE TO -TO С SE С С С SEM≓ [⊥]→SEM С С С С С С SEM 🚘 SEM С **HSEM** С ੶ਁ੶੶੶੶੶੶੶੶੶ੑੑੑੑੑੑੑੑੑੑੑੑੑ੶੶ Μ С С SEM SEM С

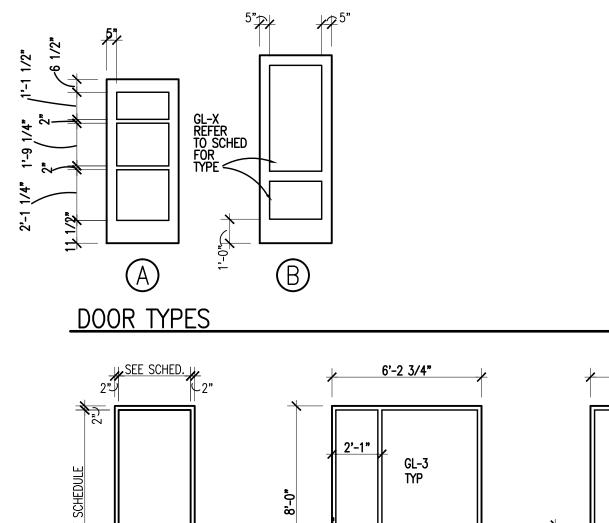
SECOND LEVEL COMPOSITE FLOOR PLAN SCALE: 1/32" = 1'-0"

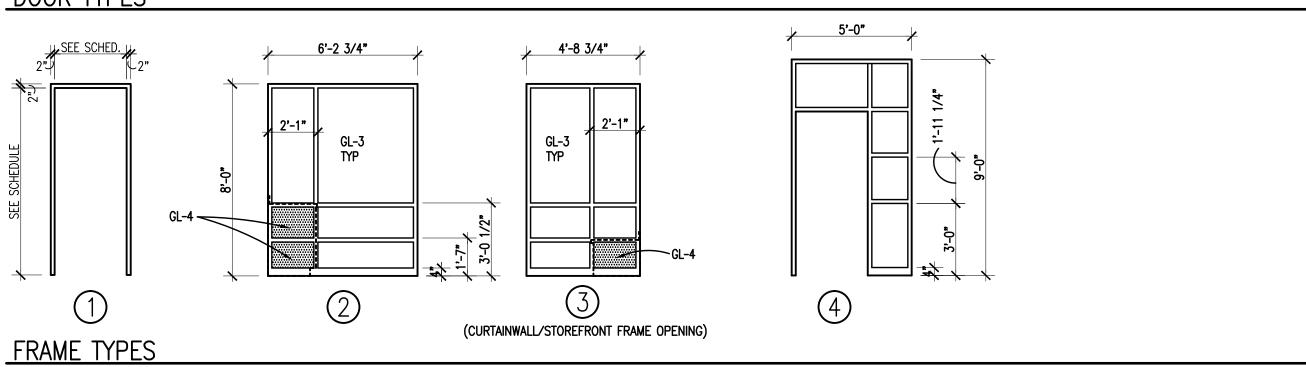
•



AR	CHITECTURE
ТМР	ARCHITECTURE INC
BLOG	1191 WEST SQUARE LAKE ROAD DMFIELD HILLS • MICHIGAN • 48302
	H • 248.338.4561 FX • 248.338.0223 • INFO ®TMP-ARCHITECTURE.COM
REGISTRA	TION SEAL
CONSULT	ANT
PROJECT	ſIŢĪ.Ē
•	High School
_	a Center
Remo	odeling
	odeling Package No.32
Bid F	
Bid F	Package No.32
Bid F Troy S Troy, I	Package No.32 School District Michigan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan FITTLE d Level osite Floor Plan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F Troy S Troy, I DRAWING Second	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F	Package No.32 School District Michigan TITLE d Level Site Floor Plan Content of the second sec
Bid F	Package No.32 School District Michigan FITTLE d Level Site Floor Plan Contempted Co
Bid F Troy S Troy, I DRAWING Second Compo I SSUE DAT	Package No.32 School District Michigan FTITLE d Level Site Floor Plan Construction Documents
Bid F Troy S Troy, I DRAWING Second Compo I	Package No.32 School District Michigan TITLE d Level osite Floor Plan Construction documents ISSUED FOR:
Bid F Troy S Troy, C DRAWING Second Compo ISSUE DAT	Package No.32 School District Michigan STITLE d Level osite Floor Plan Fis
Bid F Troy S Troy, C DRAWING Second Compo Second Compo Co	Package No.32 School District Michigan TITLE d Level osite Floor Plan
Bid F Troy S Troy S Troy S Compo Second Second Compo Second Second Compo Second Se	Package No.32 School District Michigan TITLE d Level osite Floor Plan
Bid F Troy S Troy, C DRAWING Second Compo Second Compo Co	Package No.32 School District Michigan TITLE d Level Diste Floor Plan Construction Documents ISSUED FOR: JPW JPW JPW JC

Opening No. Opening Size (Width x Height) Door Frame Vo. Opening Size (Width x Height) 0		DOOR &	F	R/	\M	Ε	S	CH	ED)
Image: Image in the second systemImage i	Oper	ning	D	oor	I		F	ram	e	
D217A (2) 3'-0"x 7'-10" B AL PFN GL-3 1 AL PFN D217B (2) 3'-0"x 7'-10" B AL PFN GL-3 1 AL PFN D217C - - - - 2 AL PFN D217D - - - - 3 AL PFN	No.	Opening Size (Width x Height)	Type	Material	Finish	Glass	Type	Material	Finish	
D217B (2) 3'-0"x 7'-10" B AL PFN GL-3 1 AL PFN D217C - - - - 2 AL PFN D217D - - - - 3 AL PFN	First	Level - Zone	; 'C)'		•	-			
D217C - - - - 2 AL PFN D217D - - - - - 3 AL PFN	D217A	(2) 3'-0"x 7'-10"	В	AL	PFN	GL-3	1	AL	PFN	I
D217D 3 AL PFN		(2) 3'-0"x 7'-10"	В	AL	PFN	GL-3				\downarrow
		-	-	-	-	•				╀
		- 3'-0"× 6'-10"	-				-			╀
Image: sector of the sector	0219	5-0 x 0-10	\uparrow	<u></u>		02-5		<u></u>		t
										t
Image: sector of the sector										Į
			 							╞
										╀
										╀
										t
										Ī
Image: sector of the sector										1
Image: sector of the sector										╀
										╀
										t
Image: sector of the sector										t
										ļ
Image: sector of the sector										╞
										╀
Image: sector of the sector										╉
										t
Image: sector of the sector										I
										╡
			┨──				 			╀
										╀
										t
Image: state stat										Ī
Image: state of the state										╞
										╀
										╀
										t
										ţ
										ĺ
										╞
										╀
										╀
										╉
										ţ
										ļ





DOOR SCHEDULE ABBREVIATIONS AND NOTES

(REFER TO SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION)

- DOOR SCHEDULE ABBREVIATIONS ALUMINUM AI ALUMINUM AND GLASS ALGL EX EXISTING FRAF FIRE RATED ALUMINUM FRAMING FRP FIBERGLASS REINFORCED POLYESTER Hollow Metal Plastic Laminate Clad HM LAM MET METAL THRESHOLD NATURAL FINISHED WOODWORK NAT Prefinished by manufacturer PFN PTD PAINTED SDSF Solid Surface Threshold STL STSTL WD STEEL STAINLESS STEEL SOLID CORE HARDWOOD
- DOOR SCHEDULE GENERAL NOTES 1. GALVANIZED METAL TO BE PROVIDED FOR H AND/OR FRAME AT EXTERIOR LOCATION.
- 2. DOORS ARE 1-3/4" THICK UNLESS OTHER
- DETAIL NUMBERS NOTED SIM. REFER TO DE JAMB, AND/ OR SILL DETAILS THAT REPRES SIMILAR TO THOSE NOTED.
- 4. HOLLOW METAL FRAMES SET IN MASONRY WALLS ARE 5 3/4" WIDE (U.O.N.). 5. HOLLOW METAL FRAMES, SET IN GYPSUM BD. /METAL STUD PARTITIONS,
- SHALL BE "DOUBLE BACK-BEND" FRAMES WITH A THROAT DIMENSION EQUAL TO THE PARTITION THICKNESS PLUS 9/16" RETURNS ON EACH SIDE OF THE PARTITION. PROVIDE EQUAL RABBETS.
- 6. AN ASTERISK (*) CALLS ATTENTION TO THE REMARKS COLUMN of the schedule.

	ULE							
		Details			q	e	Set	Remarks
	Glass	Head	Jamb	Sill	Threshold	U.L. Label	Hdwe. Se	
╈	-				•	•	2	
+	- GL-3				•	•	2	• •
	GL-3		•	•	•	•	•	•
+	GL-10						1	
╀								
t								
+								
╀								
T								
ļ								
╀								
╈								
İ								
╀								
t								
+								
+								
T								
+								
╈								
Ţ								
+								
╉								
Ţ								
\downarrow								
+								
╉								
ļ								
+								
╀								
╈								
Ţ								
+								

S	U.L. DOOR	LABEL DESIGNATIONS:
R HOLLOW METAL DOOR	<u>U.L. LABEL**</u> 180	MIN. OPENING PROTECTION ASSEMBLY 3 HR. FIRE RATING
	90	1–1/2 HR. FIRE RATING
ERWISE NOTED.	60	1 HR. FIRE RATING
	45	3/4 HR. FIRE RATING
DETAILS SHOWING HEAD,	20	1/3 HR. FIRE RATING
RESENT CONDITIONS		ed doors shall be smoke and draft Ed in addition to U.L. Labels indicated.

13174H



•	<u>• </u>	
•	_ <u>•</u>	
•		
•	_ <u>•</u>	
1-15-2021	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN		
CHECKED		
APPROVED		



Troy High School Media Center Remodeling Bid Package No.32

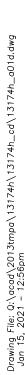
CONSULTANT

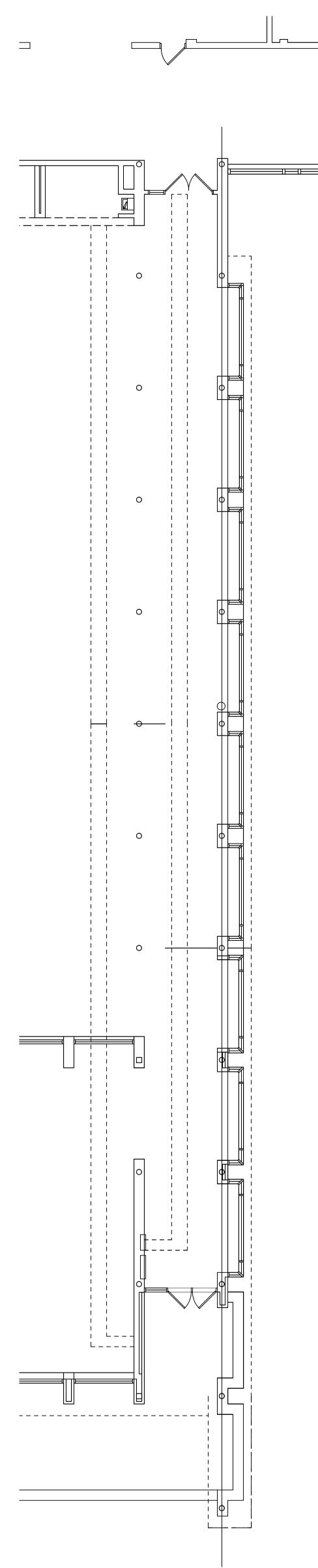
PROJECT TITLE

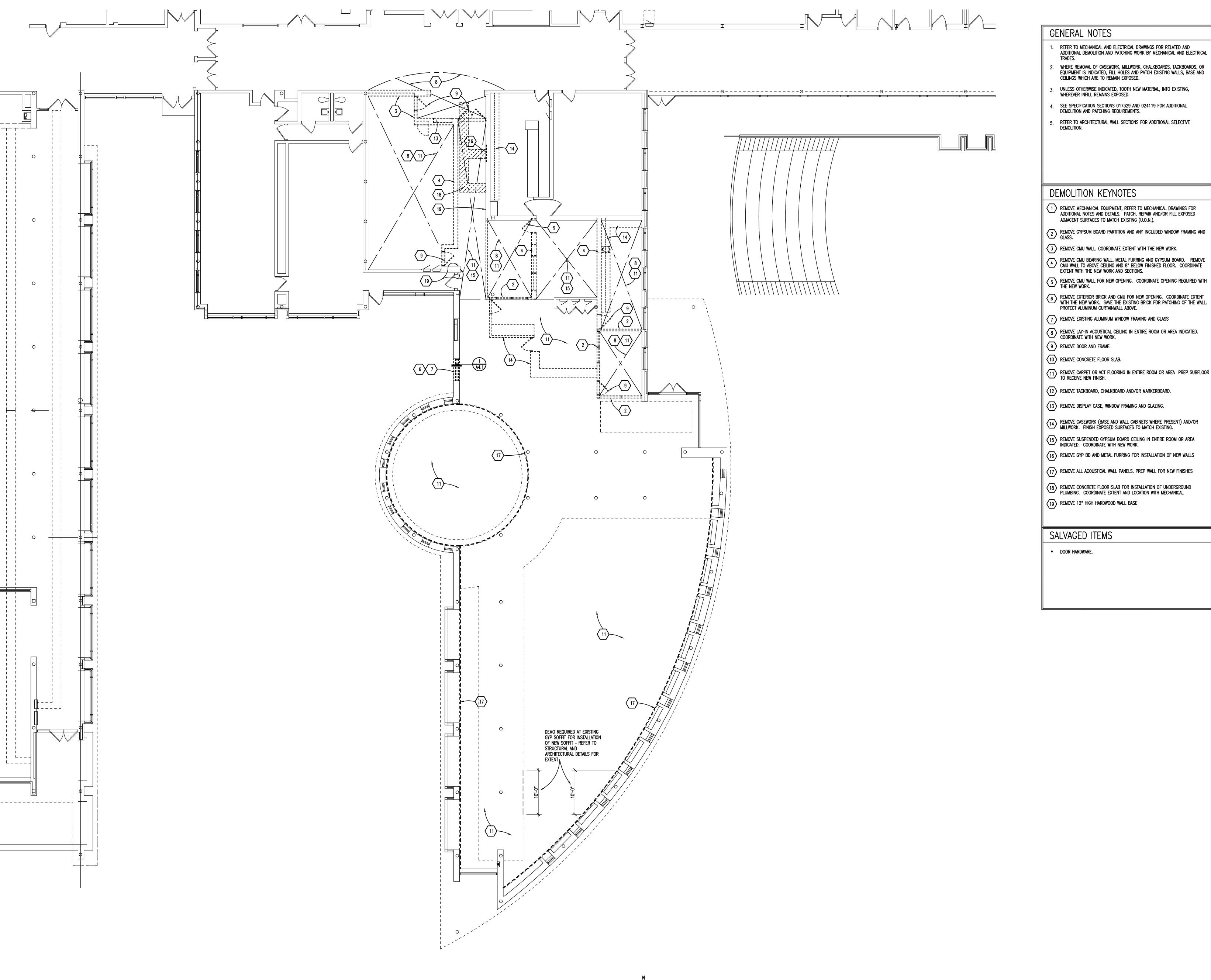
REGISTRATION SEAL

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM





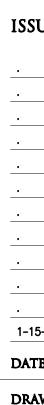






4.	SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.
5.	REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.
	MOLITION KEYNOTES
	WOLITION RETNUTES
	REMOVE MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).
$\langle 2 \rangle$	REMOVE GYPSUM BOARD PARTITION AND ANY INCLUDED WINDOW FRAMING AND GLASS.
$\langle 3 \rangle$	REMOVE CMU WALL. COORDINATE EXTENT WITH THE NEW WORK.
4	REMOVE CMU BEARING WALL, METAL FURRING AND GYPSUM BOARD. REMOVE CMU WALL TO ABOVE CEILING AND 8" BELOW FINISHED FLOOR. COORDINATE EXTENT WITH THE NEW WORK AND SECTIONS.
5	REMOVE CMU WALL FOR NEW OPENING. COORDINATE OPENING REQUIRED WITH THE NEW WORK.
6	REMOVE EXTERIOR BRICK AND CMU FOR NEW OPENING. COORDINATE EXTENT WITH THE NEW WORK. SAVE THE EXISTING BRICK FOR PATCHING OF THE WALL. PROTECT ALUMINUM CURTAINWALL ABOVE.
$\langle 7 \rangle$	REMOVE EXISTING ALUMINUM WINDOW FRAMING AND GLASS
8	REMOVE LAY-IN ACOUSTICAL CEILING IN ENTIRE ROOM OR AREA INDICATED. COORDINATE WITH NEW WORK.
9	REMOVE DOOR AND FRAME.
(10)	REMOVE CONCRETE FLOOR SLAB.
(11)	REMOVE CARPET OR VCT FLOORING IN ENTIRE ROOM OR AREA PREP SUBFLOOR TO RECEIVE NEW FINISH.
(12)	REMOVE TACKBOARD, CHALKBOARD AND/OR MARKERBOARD.
(13)	REMOVE DISPLAY CASE, WINDOW FRAMING AND GLAZING.
(14)	REMOVE CASEWORK (BASE AND WALL CABINETS WHERE PRESENT) AND/OR MILLWORK. FINISH EXPOSED SURFACES TO MATCH EXISTING.
(15)	REMOVE SUSPENDED GYPSUM BOARD CEILING IN ENTIRE ROOM OR AREA INDICATED. COORDINATE WITH NEW WORK.
$\left< 16 \right>$	REMOVE GYP BD AND METAL FURRING FOR INSTALLATION OF NEW WALLS
(17)	REMOVE ALL ACOUSTICAL WALL PANELS. PREP WALL FOR NEW FINISHES
(18)	REMOVE CONCRETE FLOOR SLAB FOR INSTALLATION OF UNDERGROUND PLUMBING. COORDINATE EXTENT AND LOCATION WITH MECHANICAL
(19)	REMOVE 12" HIGH HARDWOOD WALL BASE
SA	LVAGED ITEMS
•	DOOR HARDWARE.



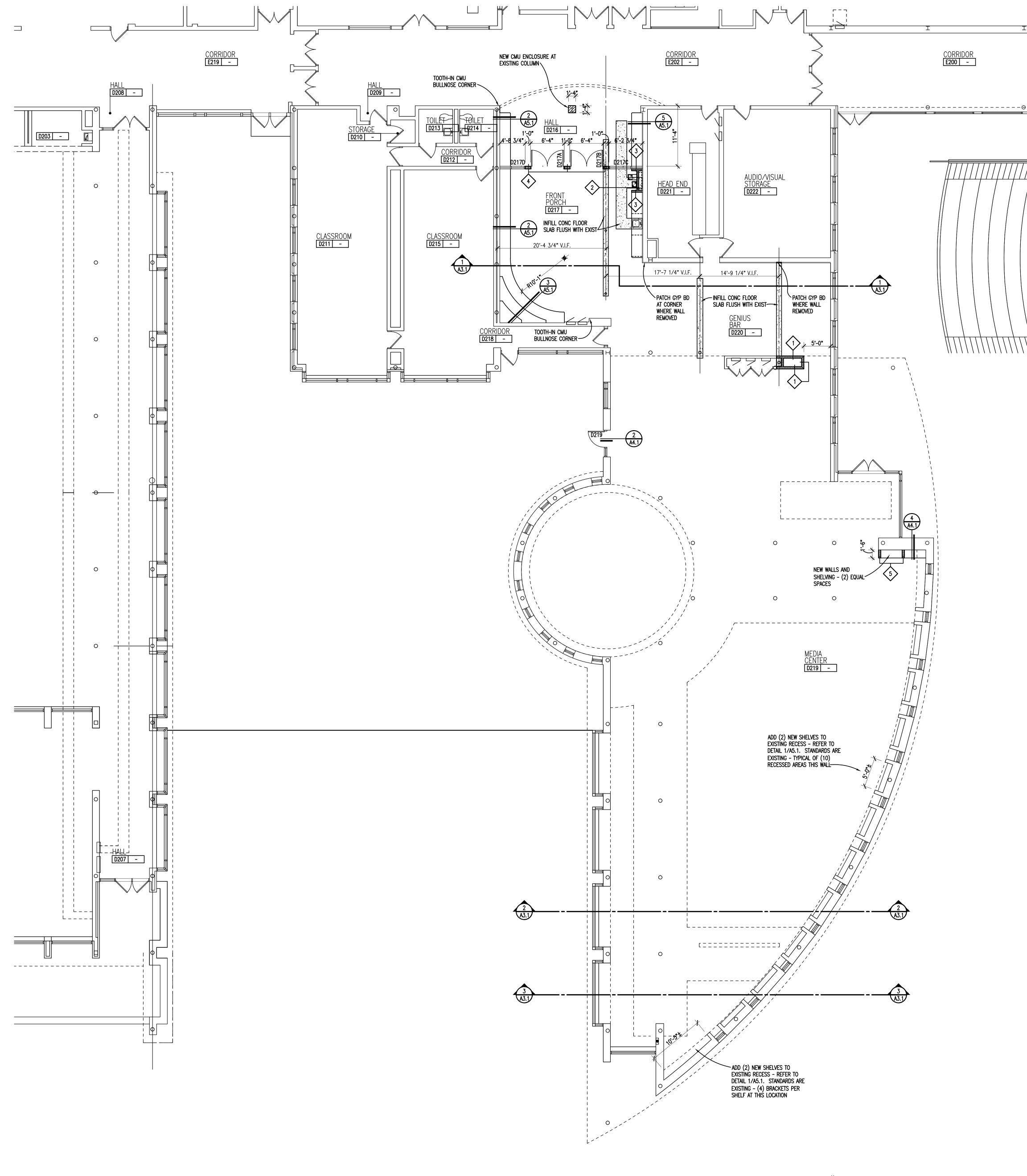




PROJECT NO. 13174H

TMP A BLOC PH	C H I T E C T U R E I N C A R C H I T E C T U R E I N C I I WEST SQUARE LAKE ROAD MITELD HILLS · MICHIGAN · 48302 · 248.338.4561 FX · 248.338.0223 INFO ®TMP-ARCHITECTURE.COM
CONSULT	NT
Medi	TTLE High School a Center odeling
	ackage No.32
Troy, I drawing Second	d Level tion Plan -
ISSUE DAT	ES
• •	·
· · ·	· · ·
· ·	·
•	·
1-15-2021	CONSTRUCTION DOCUMENTS
DATE:	JPW
CHECKED APPROVED	JPW JPW
	10.



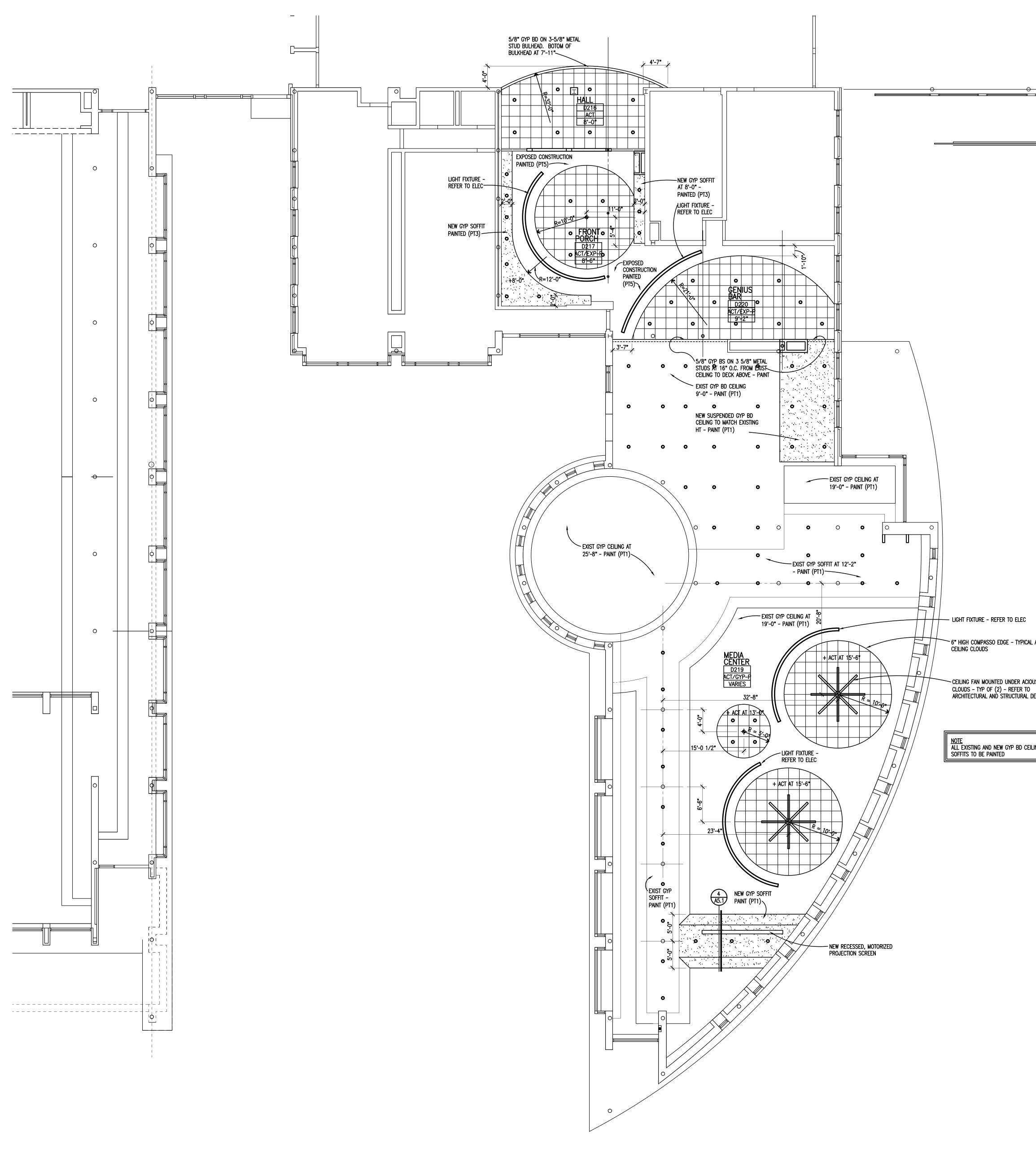




SECOND LEVEL FLOOR PLAN - ZONE 'D'

CORRIDOR L237 -	CORRID	WALL / PARTITION KEY EXISTING WALL CONSTRUCTION METAL STUD PARTITION
		CONCRETE MASONRY UNIT WALL w/ HORIZONTAL JOINT REINFORCEMENT AT 16" O.C CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS)
		WALL / PARTITION LEGEND
		3 5/8" METAL STUDS AT 16" O.C. (MAX.) WITH 5/8" GYPSUM BOARD ONE SIDE. <u>HEIGHT:</u> FROM FLOOR TO DECK ABOVE. COPE AROUND STRUCTURE, SEAL ALL
		GAPS AND PENETRATIONS. NOMINAL WIDTH 4" (ACTUAL: 4 1/4") TILE BACKER BOARD ONE SIDE ON GALV. 3 5/8" METAL STUD FRAMING AT 16" O.C. WITH 3 5/8" GALV. METAL BRACING TO C.M.U. WALL. EXTEND BACKER BOARD FROM FLOOR TO 8'-0" WITH 5/8" GYP BD TO STRUCTURE ABOVE.
		3 3 5/8" METAL STUDS AT 16" O.C. (MAX.) WITH 1 LAYER 5/8" GYPSUM BOARD EACH SIDE. <u>HEIGHT:</u> FROM FLOOR TO DECK ABOVE. COPE AROUND STRUCTURE, SEAL ALL GAPS AND PENETRATIONS. NOMINAL WIDTH: 5" (ACTUAL: 4 7/8").
		6" METAL STUDS AT 16" O.C. (MAX.) WITH 1 LAYER 5/8" GYPSUM BOARD EACH SIDE. <u>HEIGHT:</u> FROM FLOOR TO DECK ABOVE. COPE AROUND STRUCTURE, SEAL ALL GAPS AND PENETRATIONS. NOMINAL WIDTH: 7" (ACTUAL: 7 1/4").
		6" METAL STUDS AT 16" O.C. (MAX.) WITH 1 LAYER 5/8" GYPSUM BOARD EACH SIDE. <u>HEIGHT:</u> FROM FLOOR TO UNDERSIDE OF EXISTING SOFFIT (12'-2"±). NOMINAL WIDTH: 7" (ACTUAL: 7 1/4").
		 NOTES: COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WALLS, WALLS WHICH EXTEND UP TO THE STRUCTURE ABOVE AND WALLS WHICH EXTEND ONLY A MINIMUM OF 4" ABOVE THE ADJACENT HIGHEST CEILING. DIMENSIONS OF WALLS ARE SHOWN NOMINAL IN PLAN FOR DETERMINING THE CMU THICKNESS. REFER TO BUILDING SECTIONS, WALL SECTIONS AND INTERIOR ELEVATIONS FOR BANDING OF SPECIAL CMU TYPES OR ANY OTHER SPECIAL CONDITIONS. PARTIAL HEIGHT CMU WALLS WILL BE NOTED AS SUCH ON THE FLOOR PLANS. REFER TO MASONRY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL PRACING NOT INDICATED ON DRAWINGS
		 BRACING NOT INDICATED ON DRAWINGS. 3. AT FIRE-RATED AND SMOKE-RESISTING WALLS (MASONRY OR GYPSUM BOARD), PROVIDE U.L. APPROVED, FIRE-RATED, HEAD-OF-WALL TERMINATIONS AS INDICATED. IF NOT INDICATED, PROVIDE "BASIS OF DESIGN", HEAD-OF-WALL FIRESTOP JOINT SYSTEM AS INDICATED IN SPECIFICATION SECTION 078446 (1 OR 2 HOUR AS APPROPRIATE). PROVIDE MINIMUM 1 HOUR TERMINATION AT SMOKE-RESISTING WALLS. 4. ALL CMU IS 8" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE.
		 PROVIDE BULLNOSE CMU UNITS AT ALL OUTSIDE CORNERS WHEN CORNERS ARE EXPOSED IN FINAL CONSTRUCTION. DO NOT BULLNOSE CORNERS WHEN ABUTTING CONSTRUCTION (i.e. GYPSUM BOARD) IS INTENDED TO BE FLUSH WITH CMU.
		GENERAL NOTES
		2. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT'S FIELD REPRESENTATIVE.
		3. CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.
		 4. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL. 5. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES
		 ARISE BEFORE PROCEEDING WITH THE WORK. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL
		JOINTS, AS SPECIFIED. 7. PROVIDE CONTROL JOINTS WHERE INTERIOR CMU (ON SLAB) ABUTS EXTERIOR/INTERIOR MASONRY (ON FOUNDATIONS OR FOOTINGS).
		 VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER
		 REFER TO REFLECTED CEILING PLANS FOR EXTENSION OF PARTITION WALLS TO FLOOR OR ROOF CONSTRUCTION ABOVE AND WALL FIRE RESISTANCE RATING REQUIREMENTS.
		11. REFER TO STRUCTURAL DRAWINGS FOR ALL WIND FRAME LOCATIONS AT INTERIOR AND EXTERIOR WALLS.
		12. REFER TO A10 SERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES.
		13. REFER TO STRUCTURAL DRAWINGS FOR ORIENTATION AND SIZES OF ALL STRUCTURAL COLUMNS.
		14. REFER TO DRAWING A8.1 FOR TYPICAL DETAILS PERTAINING TO WALL TERMINATIONS AT STRUCTURE ABOVE AND MASONRY CONTROL JOINT DETAILS.
		 VERIFY ALL DIMENSIONS IN FIELD. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9 SERIES AND A6 SERIES DRAWINGS.
		PATCHING NOTES
		 REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES. FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW
		 FINISHES, WILL REQUIRE FLOOR PREPARATION. 3. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH
		MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT. 4. MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.
		 AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR. TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND
		6. TOUTH-IN MASUNKY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER OPENINGS.

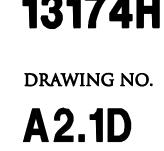


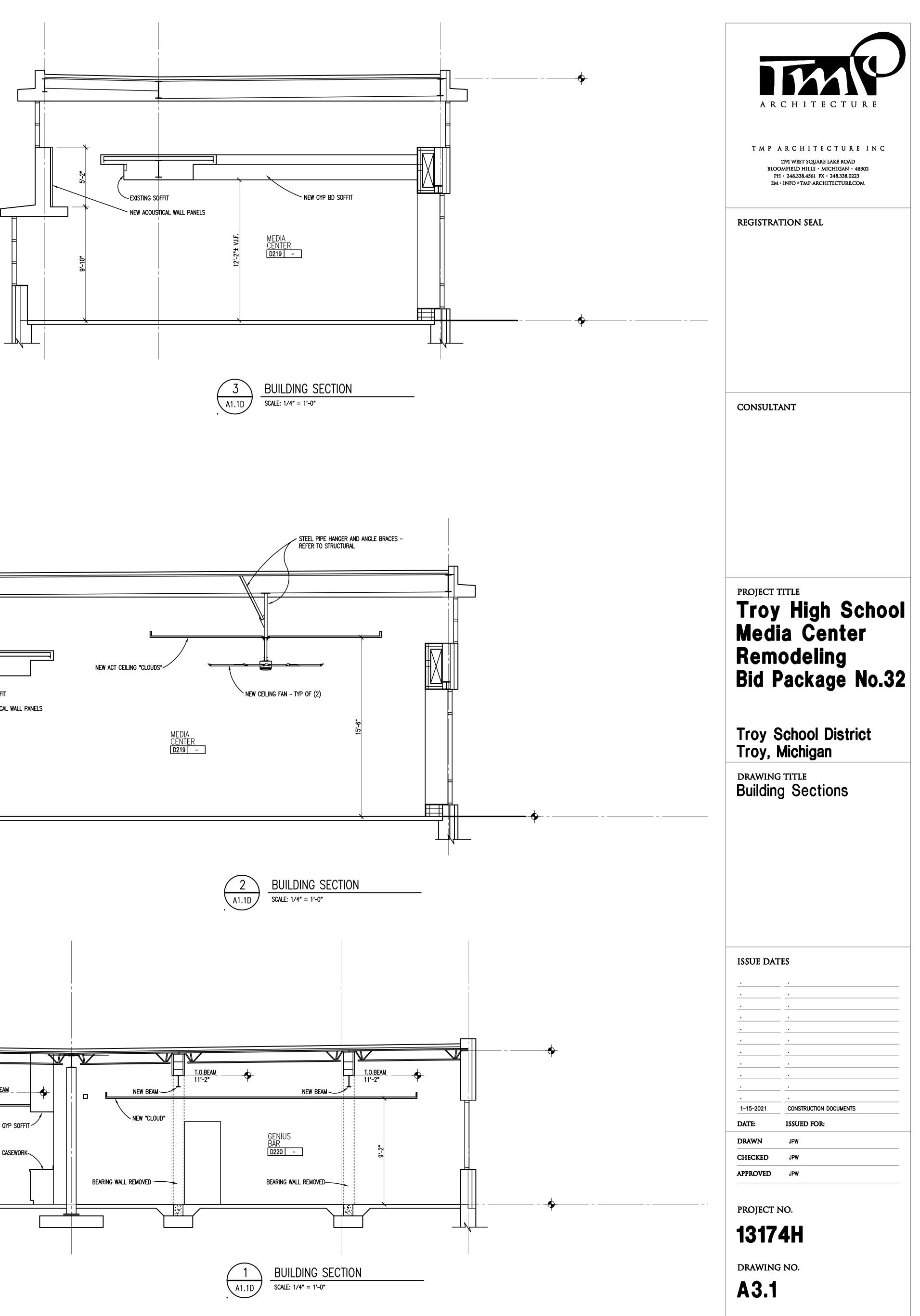


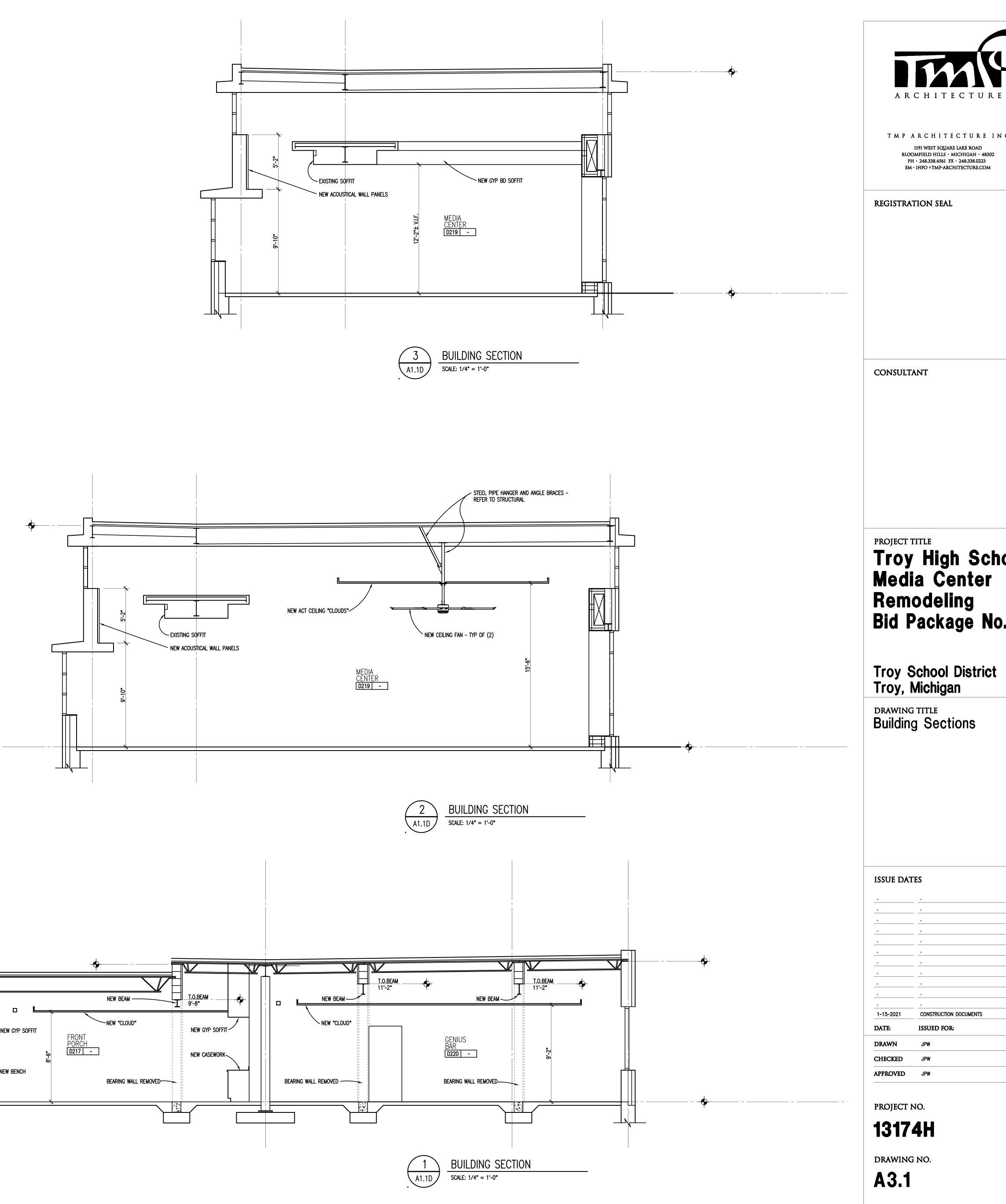


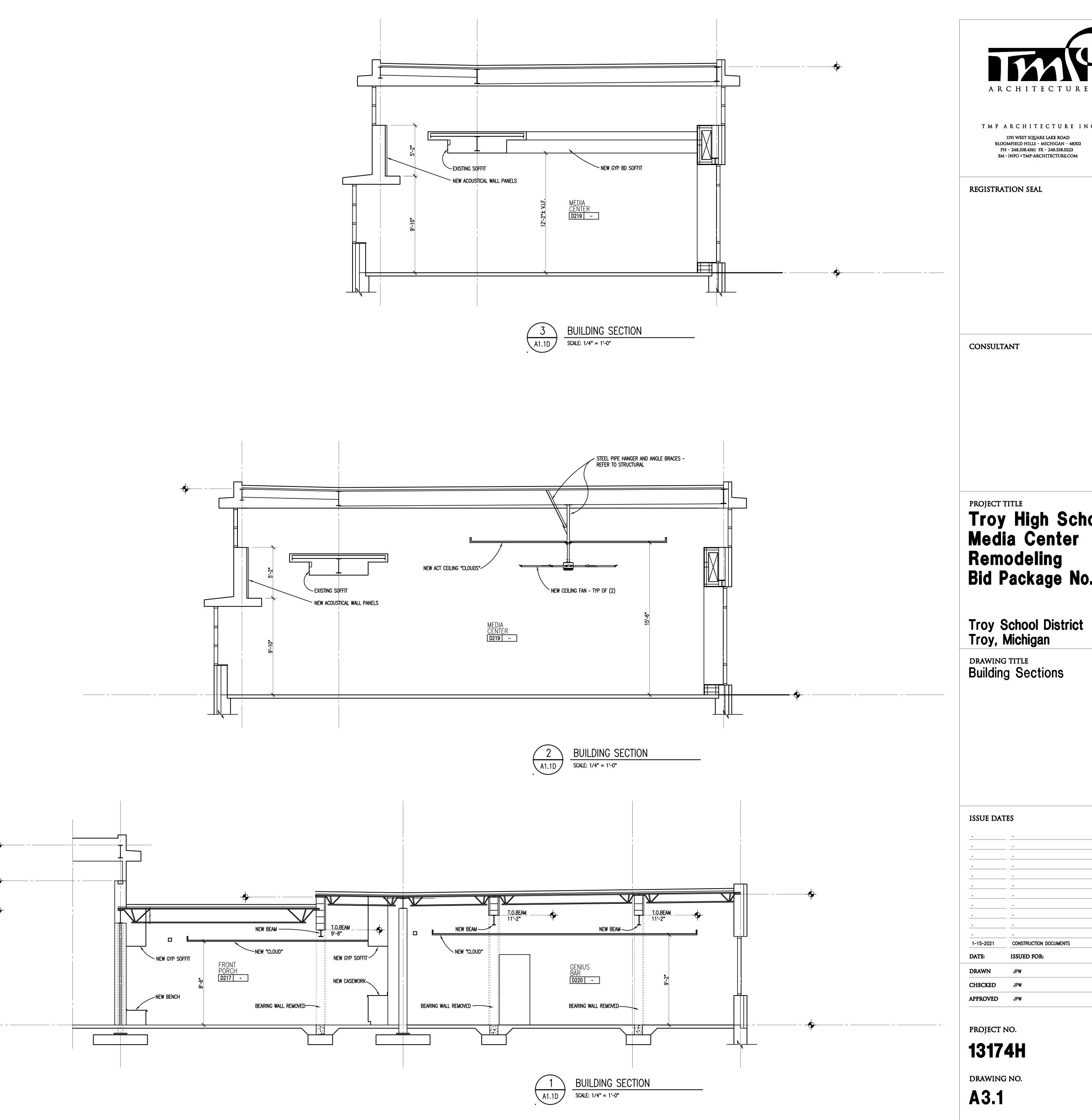
IL AT ALL DUSTICAL		
DETAILS		
ILINGS AND		

FIXTURE	LEGEND		
	RECESSED FLUORESCENT TROFFER (2'x4'/ 1'x4')		
	FLUORESCENT COVE LIGHTING		r
	FLUORESCENT INDUSTRIAL FIXTURE		
-0-0-	L.E.D. DOWNLIGHTS, CABLE MOUNTED TO TRACK SYSTEM (TRACK SUSPENDED @ _'" A.F.F.)	ARCHITECTURE	
	(BOTTOM OF FIXTURES @ _'" A.F.F.)		
	SURFACE MOUNTED L.E.D. TRACK LIGHTING SURFACE MOUNTED FLUORESCENT FIXTURE	TMP ARCHITECTURE INC	
o o	PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE	1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302	
	EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE	PH • 248.338.4561 FX • 248.338.0223 EM • INFO ©TMP-ARCHITECTURE.COM	
\frown	(_'" A.F.F. TO CENTER) PENDANT-HUNG FLUORESCENT/L.E.D. FIXTURE		
(\cdot)	(_'" A.F.F. TO BOTTOM)	REGISTRATION SEAL	
0	RECESSED DOWNLIGHT		
8	exit sign / light Smoke detector		
	CEILING MOUNTED CABINET UNIT HEATER		
	RECESSED RADIANT CEILING PANEL		
	EXHAUST GRILLE		
\ge	SUPPLY DIFFUSER		
	RETURN-AIR GRILLE		
\$ +	SPEAKER PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE)		
X	SIDEWALL SPRINKLER HEAD		
		_ CONSULTANT	
CEILING I			
	GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT		
	24" x 48" SUSPENDED LAY-IN ACOUSTICAL CEILING		
	24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING		
	3" THICK ACOUSTIC BLANKET INSULATION ABOVE GYPSUM BOARD AND/OR LAY-IN CEILINGS (4'-0" WIDE U.O.N.)		
	· , ,		
$\begin{array}{c} + & + & + & + & + & + & + \\ + & + & + &$	ALUMINUM PANEL SOFFIT		
	LINEAR PVC CEILING	PROJECT TITLE	
		Troy High School	
	EXPOSED OR EXISTING CONSTRUCTION TO REMAIN (PAINTED, U.O.N.)	Media Center	J
CEILING I	LEGEND	Remodeling	
ROOM/CEILING TA		Bid Package No.32)
<u>Room/Ceiling ta</u> Room name and Ceiling finish ai	gs <u>ceiling finish tag</u>)
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 € ROOM NAME ROOM NUMBER ROOM NUMBER	Bid Package No.32)
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 ← ROOM NAME	Bid Package No.32 Troy School District	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROON 101 ACT 9'-0"	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 ← ROOM NAME	Bid Package No.32	•
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 8 CLASSROOM 9'-0" CEILING FIN ACT ACOUST	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 ← ROOM NAME	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACUST ALUM ALUM ACOUST	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) > ALUM 8'-10" VISH ABBREVIATIONS	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 € ACT € 9'-0" € CEILING FIN ACT ACOUST ALUM ALUMINI AWP ACOUST AB ACOUST EX EXISTIN EXP-P EXPOSE	GS CEILING FINISH TAG NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE ND HEIGHT UNLESS VARYING FROM GENERAL D CEILING FINISH TAGS. ROOM/CEILING TAGS. 1 ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) ▲ ALUM 8'-10" VISH ABBREVIATIONS 8'-10" VISH ABBREVIATION TILE 8'-10" VISH ABBREVIATION TILE 1000000000000000000000000000000000000	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan -	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ALUM ALUM ALUM AWP ACOUST AB ACOUST EX EXP-P EXPOSE FB FABRIC GYP-P GYPSUN GYP-EP GYPSUN	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. 1 M ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) Image: Ceiling finish abbreviation (SEE BELOW) ALUM CEILING HEIGHT (A.F.F.) Image: Ceiling finish abbreviation (SEE BELOW) Image: Ceiling finish abbreviation (A.F.F.) Image: Ceiling finish abbreviation (SEE BELOW) Image: Ceiling finish abbreviation (Ceiling finish abbreviation) Image: Ceiling finish	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ALUM ALUM AWP ACOUST AB AC AC AC AC AC AC AC AC AC AC AC AC AC	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. 1 M ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) Image: Ceiling finish abbreviation (SEE BELOW) ▲ ALUM CEILING HEIGHT (A.F.F.) ▲ Image: Ceiling finish abbreviation (SEE BELOW) ▲ Image: Ceiling finish	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan -	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM /CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ISH ABBREVIATION (SEE BELOW) → ALUM 8'-10" ISH ABBREVIATION SEE NCAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE EPOXY PAINTED PVC SYSTEM TIC VENEER PLASTER	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan -	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM /CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ISH ABBREVIATION (SEE BELOW) → ALUM 8'-10" ISH ABBREVIATION SEE NCAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE EPOXY PAINTED PVC SYSTEM TIC VENEER PLASTER	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan -	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACT ACU 9'-0" CEILING FIN ACT ACU 9'-0" CEILING FIN ACT ACU 9'-0" CEILING FIN ACT ACU COUST ACU ACU ACU ACU ACU ACU ACU ACU	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) → ALUM 8'-10" ISH ABBREVIATION (SEE BELOW) → ALUM 8'-10" ICAL LAY-IN CEILING TILE UM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D'	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 € ACT 9'-0" € CEILING FIN ACT ACT ACT ACT ACU 9'-0" € CEILING FIN ACT ACT ACUST	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM NAME I ← ROOM NAME ROOM NUMBER CEILING FINISH TAGS. ROOM/CEILING TAGS. I ← ROOM NAME ALUM CEILING FINISH ABBREVIATION (SEE BELOW) ALUM CEILING FINISH ABBREVIATION (SEE BELOW) ALUM CEILING HEIGHT (A.F.F.) B'-10" IISH ABBREVIATIONS B'-10" IICAL LAY-IN CEILING TILE B'-10" M PANEL ICAL WALL PANEL ICAL BAFFLE G J C CONSTRUCTION - TO BE PAINTED BANNER BOARD - TO BE PAINTED I BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D'	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 € ACT € 9'-0" € CEILING FIN ACT ACOUST ALUM ALUMINI AWP ACOUST ALUM ALUMINI AWP ACOUST AB ACOUST EX EXISTINIE EXP-P EXPOSE FB FABRIC GYP-P GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN IN LINEAR PT PAINT SVP SYNTHE UF UNFINIS HOTES: 1. REFER TO AF INFORMATION 3. WHERE EXPC	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM 8'-10' ISH ABBREVIATIONS BELOW) → ALUM 8'-10' ICAL LAY-IN CEILING TILE UM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED HOARD - TO BE PAINTED HOARD - TO BE PAINTED NISH PLANS FOR INFORMATION ON ROOM FINISHES. NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. DSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D'	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 € ACT € 9'-0" € CEILING FIN ACT ACOUST ALUM ALUMINI AWP ACOUST ALUM ALUMINI AWP ACOUST AB ACOUST EX EXISTINIE EXP-P EXPOSE FB FABRIC GYP-P GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN GYP-EP GYPSUN IN LINEAR PT PAINT SVP SYNTHE UF UNFINIS HOTES: 1. REFER TO AF INFORMATION 3. WHERE EXPC	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. 1 ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM 8'-10' 1 SH ABBREVIATIONS ALUM 8'-10' INSH ABBREVIATION (SEE BELOW) → ALUM 8'-10' ALUM 8'-10' INSH ABBREVIATIONS INSH ABBREVIATIONS ICAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED PVC SYSTEM IC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. DSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.)	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D'	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACU SP-0" CEILING FIN ACT ACT ACU ACT ACU ACT ACU ACT ACU ACT ACU ACT ACU ACU ACU ACU ACU ACU ACU ACU ACU ACU	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. Image: Construction of the system CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM B*-10* ISH ABBREVIATIONS ALUM B*-10* ICAL LAY-IN CEILING TILE UM PANEL ICAL BAFFLE G B ICAL LAY-IN CEILING TILE UM PANEL ICAL BAFFLE G B ICAL LAY-IN CEILING TILE UM PANEL ICAL BAFFLE G B ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. SED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL .STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDECS ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL MICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D'	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL NO HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL D CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM 8'-10" ISH ABBREVIATIONS ISH ABBREVIATIONS ICAL LAY-IN CEILING TILE UM PANEL ICAL BAFFLE G ALUM 8'-10" ICAL LAY-IN CEILING TILE UM PANEL ICAL BAFFLE G BANKER ICAL BAFFLE G BOARD - TO BE PAINTED BANKER I BOARD - TO BE PAINTED HOORD - TO BE PAINTED PVC SYSTEM BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. SED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL INCAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL INCAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL INCAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK.	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACT ACUM ALUM	GS CEILING FINISH TAG NUMBER PLUS GENERAL D HEIGHT UNLESS D CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL D CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM B'-10" ISH ABBREVIATIONS ILLIM B'-10" ICAL LAY-IN CEILING TILE JM PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. ISED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDEL ICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL IACAL DRAWINGS FOR TADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL W	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTE CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM AL	GS CEILING FINISH TAG NUMBER PLUS GENERAL NO HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. I ← ROOM NAME ROOM NUMBER ALUM BOM/CEILING FINISH ABBREVIATION (SEE BELOW) I ← CEILING FINISH ABBREVIATION (SEE BELOW) ▲ ALUM BOM/CEILING FINISH ABBREVIATIONS I/CAL VALIPANEL ICAL UAY-IN CEILING TILE JM PANEL ICAL BAFFLE G D CONSTRUCTION - TO BE PAINTED BANNER ALUM BOARD - TO BE PAINTED H BOARD - TO BE PAINTED PVC SYSTEM IC VENEER PLASTER HED IC VENEER PLASTER HED INISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. VSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL INCAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED ARD CEILINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S SENTATIVE BEFORE PLACEMENT.	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACT ACT ACOUST ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUM ALUMINA ACOUST AC EX EX EX EX EX EX EX EX EX EX	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FINISH TAGS. 1 ← ROOM NAME ROOM NUMBER CEILING FINISH TAGS. SPECIFIC FINISH TAGS. 1 ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM B'-10* IISH ABBREVIATIONS B'-10* IISH ABBREVIATIONS B'-10* IISH ABBREVIATIONS B'-10* ICAL LAY-IN CEILING TILE M PANEL ICAL BAFILE G B'-10* ICAL WALL PANEL ICAL BAFILE G BOARD - TO BE PAINTED BANKER IBOARD - TO BE PAINTED BOARD - TO BE PAINTED I BOARD - TO BE PAINTED BANKER BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. SED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDEC SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ED TO BE PROVIDED BY TRADE. SPOT ALL LOCATION SWITHIN FIXED RND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ED TO BE PROVIDED BY TRADE. SPOT ALL LOCATION SWITHIN FIXED RND CELINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S SENTATIVE BEFORE PLACEMENT. <th>Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' Issue DATES </th> <th></th>	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' Issue DATES	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL NO HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM AUMBER I ← ROOM NAME ROOM NUMBER SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FINISH ABBREVIATION (SEE BELOW) I ← ROOM NAME ROOM NUMBER ALUM CEILING FINISH ABBREVIATION (SEE BELOW) I ← ROOM NAME ROOM NUMBER ALUM B'-10* I ← ROOM NAME ROOM NUMBER ALUM B'-10* I ← ROOM NAME ROOM NUMBER ALUM B'-10* I ← ROOM NAME ROOM NUMBER BELOW) I ← ROOM NAME ROOM NUMBER BELOW) I ← ROOM NAME ROOM NUMBER BELOW I ← ROOM NAME ROOM NUMBER BELOW I ← ROOM NAME ROOM NUMBER BELOW I ← ROOM NEILING TILE M PANEL ICAL BAFILE G D CONSTRUCTION - TO BE PAINTED HE BOARD - TO BE PAINTED HE BOARD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASER HED HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. NSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL ICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' Issue DATES	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DD EIGHT UNLESS VARYING FROM GENERAL DD CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL DD CEILING FINISH ABBREVATION (SEE BELOW) → ALUM CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (AF.F.) INSH ABBREVIATIONS ICAL LAY-IN CEILING TILE JM PANEL CAL BAFTLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED HOADD - TO BE PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. ISED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED RD DE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED WENT SUPPORTS. BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN YALL EXTEND 4* MINMUM ABOVE LAY-IN CEILINGS. TROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFTIS IN	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' Issue DATES	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 € ACT 9'-0" € CEILING FIN ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL ND HEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FINISH TAGS. I ← ROOM NAME COLLING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS. I ← ROOM NAME CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM B-10* ISH ABBREVIATIONS B-10* ICAL LAY-IN CEILING TILE IM PANEL ICAL WALL PANEL ICAL BAFTLE G D CONSTRUCTION - TO BE PAINTED BANNER BE POXY PAINTED BANNER I BOARD - TO BE POXY PAINTED PVC SYSTEM BOARD - TO BE POXY PAINTED PVC SYSTEM TIC VENEER PLASTER HED NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL 0 N MATERIALS AND CONSTRUCTION. SED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL ICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED ROD CEILINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S SENTATIVE BEFORE PLACEMENT. CEILING SUSPENSION SYSTEMS WITH OTHER CEILING MENT SUPPORTS. BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN ALL EXTEND 4* MINMUM ABOVE LAY-IN CEILINGS.	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT 9'-0" CEILING FIN ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DO DEIGHT UNLESS DO CEILING FINISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM // CEILING FINISH TAGS. Image: Ceiling Finish tags. COM/CEILING TAGS. Image: Ceiling Finish tags. Ceiling Finish abbreviation (SEE BELOW) → ALUM CEILING HEIGHT (AF.F.) Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM CEILING HEIGHT (AF.F.) Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM CEILING HEIGHT (AF.F.) Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEC BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEE BELOW) → ALUM B'-10* Image: Ceiling Finish abbreviation (SEC Entition (SEC BELOW) → ALUM B'-10* Imag	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' ISSUE DATES .	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DO DEIGHT UNLESS SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM NUMBER ROOM NUMBER CEILING FINISH TAGS. VARYING FROM GENERAL ROOM/CEILING TAGS. I ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM CEILING HEIGHT (A.F.F.) ALUM 8'-10' ISH ABBREVIATIONS 8'-10' ICAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAFFLE G ICAL SAFE D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED PVC SYSTEM TC VENEER PLASTER HED INSH PLANS FOR INFORMATION ON ROOM FINISHES. NISH PLANS FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. ISED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) NOTES ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL ICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE HE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT DO TO EL PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED RMENT SUPPORTS. BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN AUL EXTEND 4* MINMUM ABOVE LAY-IN CEILINGS. BOARD FASCIAE @ SOFFITS, ADJACENT TO CLAY-IN AUL EXTEND 4* MINMUM ABOVE LAY-IN CEILINGS. BOARD FASCIAE @ SOFFITS, ADJACENT	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DO EICING FUNISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FROM GENERAL ROOM NUMBER CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → <u>ALUM</u> CEILING HIGHT (AF.F.) <u>ALUM</u> 8'-10' IISH ABBREVIATIONS IISH ABBREVIATIONS ICAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAPFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. INSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOT DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDEL COLING SO FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT COLL DRAWINGS FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH ARCHITECT'S SENTIATIVE BEFORE PLACEMENT.	Bid Package No.32 Troy School District Troy, Michigan DRAWING TITLE Second Level Reflected Ceiling Plan - Zone 'D' ISSUE DATES .	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DO EICING FUNISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FROM GENERAL ROOM NUMBER CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → <u>ALUM</u> CEILING HIGHT (AF.F.) <u>ALUM</u> 8'-10' IISH ABBREVIATIONS IISH ABBREVIATIONS ICAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAPFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. INSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOT DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDEL COLING SO FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT COLL DRAWINGS FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH ARCHITECT'S SENTIATIVE BEFORE PLACEMENT.	Bid Package No.32	
ROOM/CEILING TA ROOM NAME AND CEILING FINISH AI OTHERWISE NOTEI CLASSROOM 101 ACT ACT ACT ACT ACT ACT ACT ACT	GS CEILING FINISH TAG NUMBER PLUS GENERAL DO EICING FUNISH TAGS. SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING FROM GENERAL ROOM NUMBER CEILING FINISH TAGS. I ← ROOM NAME ROOM NUMBER CEILING FINISH ABBREVIATION (SEE BELOW) → <u>ALUM</u> CEILING HIGHT (AF.F.) <u>ALUM</u> 8'-10' IISH ABBREVIATIONS IISH ABBREVIATIONS ICAL LAY-IN CEILING TILE JM PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL WALL PANEL ICAL BAPFLE G D CONSTRUCTION - TO BE PAINTED BANNER I BOARD - TO BE PAINTED I BOARD FOR INFORMATION ON ROOM FINISHES. RCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL I ON MATERIALS AND CONSTRUCTION. INSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL STRUCTURAL MEMBERS, ROOF/FLOOT DECK, DUCTWORK, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.) INDEL COLING SO FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT COLL DRAWINGS FOR ADTIONAL INFORMATION PERTAINING TO AND MECHANICAL WORK. SIZE AND LOCATION OF ALL ACCESS PANELS WITH ARCHITECT'S SENTIATIVE BEFORE PLACEMENT.	Bid Package No.32	





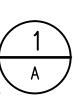


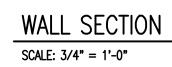


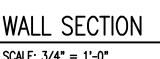
SUE DAT	ſES	
	•	_
	<u> </u>	
	_ <u>•</u>	_
	•	
	_ ·	_
	<u>·</u>	
		—
	•	_
15-2021	CONSTRUCTION DOCUMENTS	_
TE:	ISSUED FOR:	
AWN	JPW	
IECKED	JPW	
PROVED	JPW	

Troy High School Media Center

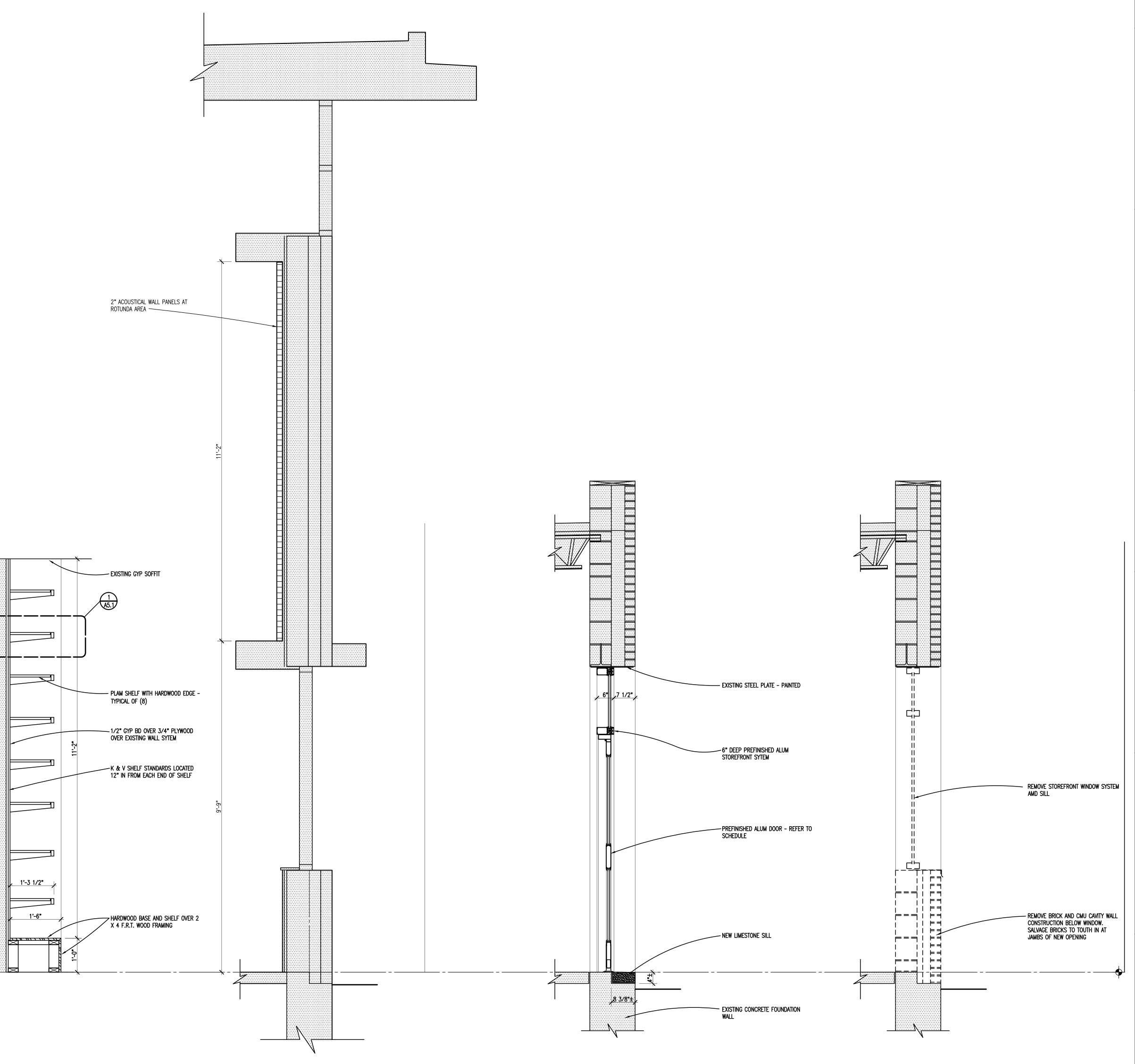
_ ____

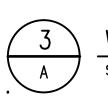
















WALL SECTION - DEMOLITION SCALE: 3/4" = 1'-0"

CONSULTANT

BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM

REGISTRATION SEAL

Troy School District Troy, Michigan

DRAN CHE _____ APPR _____

> PRC 4

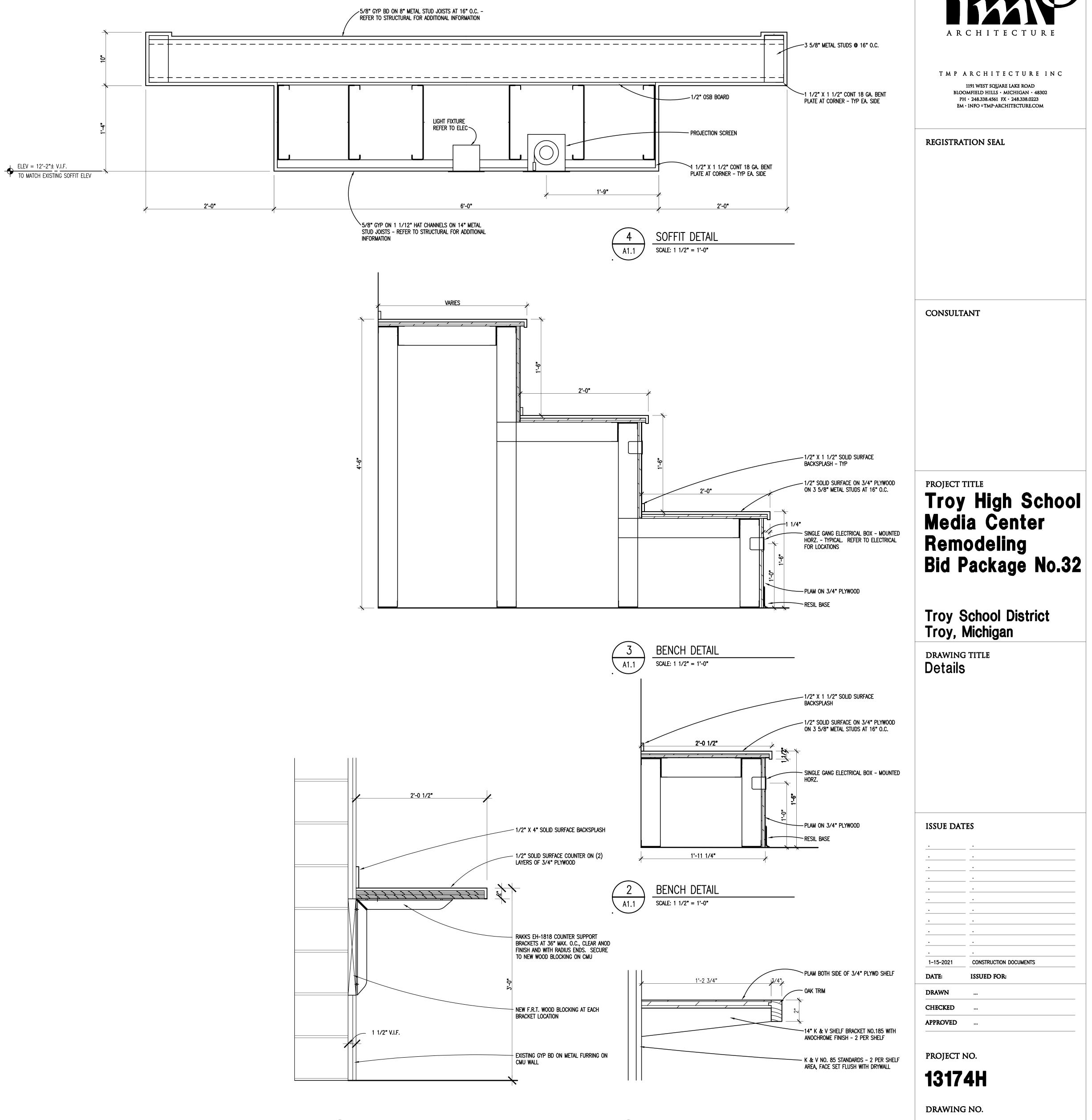


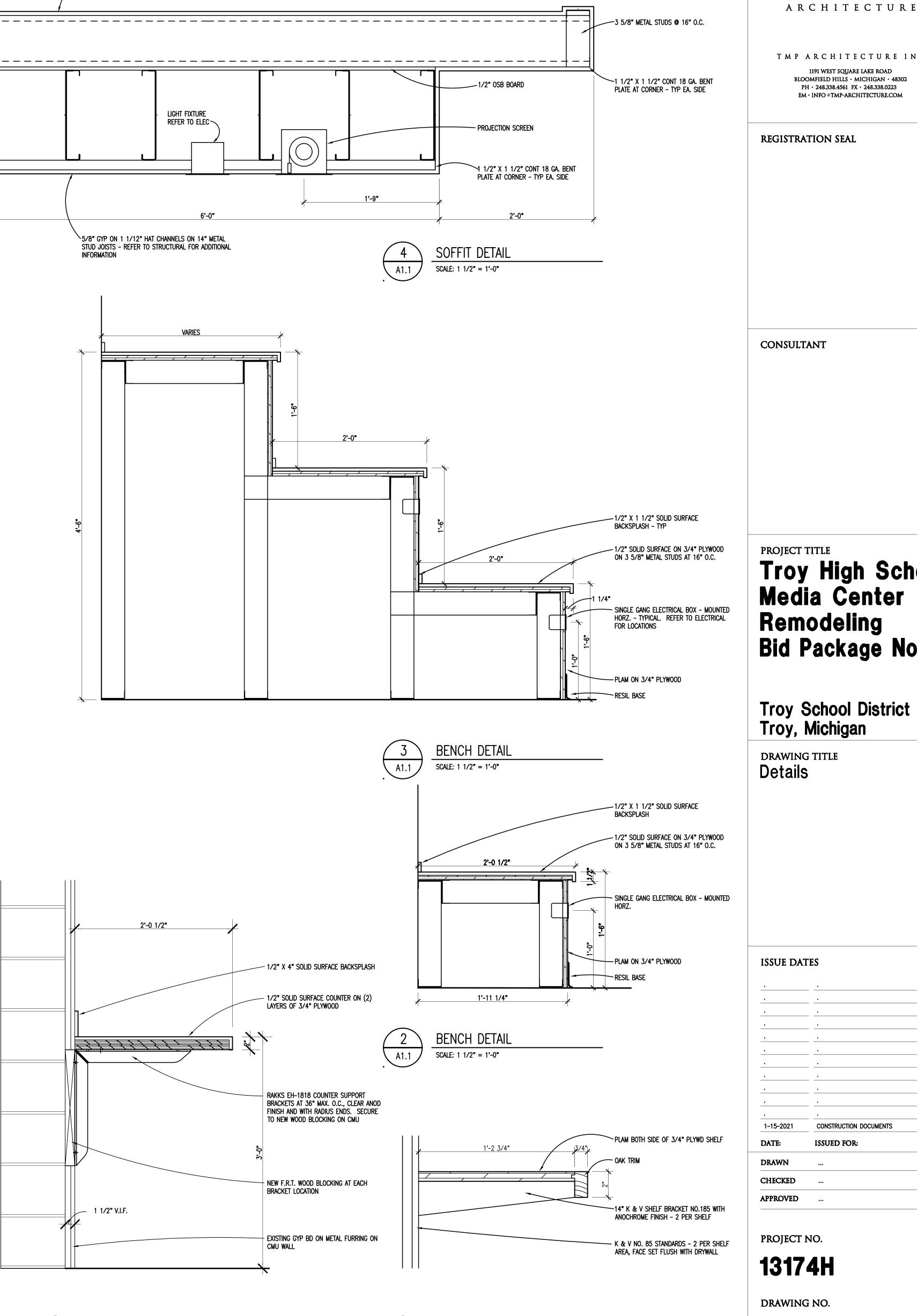
DRAWING	ections
SSUE DAT	ſES
•	
•	•
•	· ·
•	
•	_ <u>·</u>
•	· .
•	·
•	•
•	· ·
•	·
1-15-2021	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	
CHECKED	
SHECKED	
APPROVED	
APPROVED	 NO.
Approved PROJECT	

PROJECT TITLE Troy High School Media Center Remodeling Bid Package No.32

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD



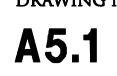




SCALE: 1 1/2" = 1'-0"

A1.1

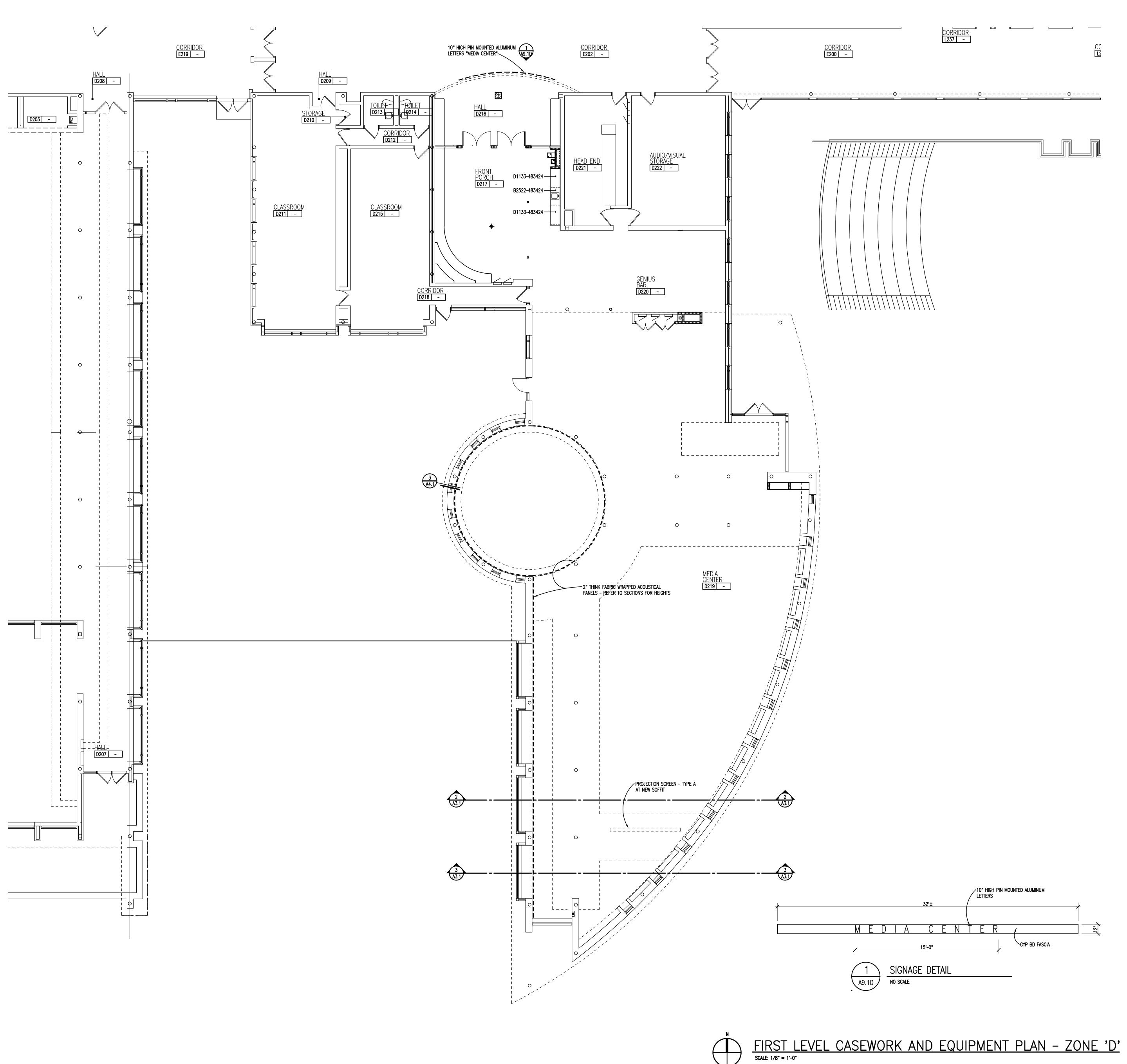
SHELF DETAIL SCALE: 3" = 1'-0"



UE DAT	`ES	
	•	
	_	
5-2021	CONSTRUCTION DOCUMENTS	
'E:	ISSUED FOR:	
WN		
CKED		

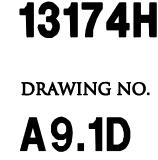
Troy High School Media Center





CORRIDOR L237 -		CC L2	LEGEND Image: Street
<u>- </u>	0-		SHORT-THROW PROJECTOR (N.I.C.) MOUNTED ABOVE MARKERBOARD (SEE TECHNOLOGY DRAWINGS)
	<u>1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</u>		 WALL MOUNTED PENCIL SHARPENER (P.S.) @ 48" A.F.F. (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR) FIRE EXTINGUISHER ON WALL BRACKET (F.E.)
			MARKERBOARD/TACKBOARD NOTES
			MOTES: TYPE OF BOARD 6'-O" T.B. WIDTH OF BOARD WIDTH OF BOARD 2. MOUNTING HEIGHTS OF T.B./M.B./C.B.: 2'-O" A.F.F. @ PRE/K-2ND CLASSROOMS 2'-6" A.F.F. @ JRD-5TH CLASSROOMS 2'-6" A.F.F. @ JRD-5TH CLASSROOMS 3'-0" A.F.F. @ GTH-12TH CLASSROOMS 3'-0" A.F.F. @ STAFF AREAS 3. HEIGHT OF ALL BOARDS ARE 4'-0" (U.O.N.). 4. MAP RAILS TO BE CONTINUOUS OVER MARKERBOARDS, CHALKBOARDS AND ADJACENT TACKBOARDS. 5. ALL MARKERBOARDS/CHALKBOARDS TO BE PROVIDED WITH TRAYS (EXCEPT WHERE INDICATED THUSLY (*)) CASEWORK NOTES 1. ALL PREFABRICATED CABINETS INDICATED ARE BASED ON TMI STORAGE SYSTEMS CORPORATION PRODUCTS. REFER TO TMI CATALOG FOR TYPICAL NUMBERING FORMAT.
			 ALL TWI CABINETS ARE DESIGNATED USING THE TYPICAL TWI ELEVEN 11 DIGIT NOTATION SYSTEM. THE FIRST FRU DIGITS ARE THE WODEL NUMBER FOLLOWED BY THREE SETS OF TWO DIGIT NUMBERS FOR THE WIDTH, HEIGHT AND DEPTH. WIDTH, HEIGHT AND DEPTH OF PREFABRICATED CABINETS IS INDICATED IN INCHES UNLESS NOTED OTHERWISE. MODEL DIMENSIONS ARE NOMINAL UNLESS SPECIFICALLY NOTED. "00000-00-00-00" INDICATES MODIFIED CASEWORK. PROVIDE SOLID SURFACE COUNTERTOPS (WITH BACK/END SPLASHES) AT ALL BASE CABINETS RADIUS ALL OUTSIDE CORNERS (U.O.N.). ALL EXPOSED SURFACES OF CASEWORK TO BE FINISHED-TYP. WALL CABINETS (OVER COUNTERS) ARE TYPICALLY MOUNTED AT 7"-0" A.F.F. TO TOP (U.O.N.). PROVIDE FINISHED END PANELS ON ALL EXPOSED CASEWORK ENDS. PROVIDE FINISHED END PANELS ON ALL EXPOSED CASEWORK ENDS. PROVIDE FINISHED END PANELS ON ALL END BASE AND WALL CABINET DOORS WHICH OPEN AGAINST PERPENDICULAR WALLS. WHERE CASEWORK IS HELD AWAY FROM WALLS, TO FLUSH-OUT WITH ADJACENT CABINETS, SCRIBE END/FILLER PANELS TO WALLS. PROVIDE FILLER PANELS WHERE SHOWN AND/OR OTHERWISE REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE FILLER PANELS WHERE SHOWN AND/OR OTHERWISE REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE LIER CASE CABINETS ARE UNDICATED, MODIFY CABINET CONSTRUCTION BY REDUCING THE HEIGHT OF ALL COMMADATE OVERSIZED SINKS (SEE MECHANICAL). MODIFY SINK BASE CABINETS AS REQUIRED TO ACCOMMADATE OVERSIZED SINKS (SEE MECHANICAL). MODIFY SINK BASE CABINETS AS REQUIRED TO ACCOMMADATE OVERSIZED SINKS (SEE MECHANICAL). MODIFY SINK BASE CABINETS AS REQUIRED TO ACCOMMATE CONSTRUCTION BY REDUCING THE HEIGHT OF ALL COMPARTMENTS EQUALLY (INDICATE ON SHOP DWES,). PROVIDE INTERMEDIATE LASTIC LAMINATE CLAD SUPPORT PANELS Ø 4"-0" O.C. MAXIMUM AT ALL UNSUPPORTED COUNTER TOPS (U.O.N.). PROVIDE GROMMETS AT ALL USUPPORTED COUNTER TOPS (U.O.N.). PR
			PROJECTOR SCREEN LEGEND
			A: 13'-4"W x 8'-4"H ELECTRICALLY OPERATED, RECESSED MOUNTED <u>NOTES:</u> 1. REFER TO ELECTRICAL PLANS FOR ALL ADDITIONAL INFORMATION.
10" HIGH PIN MOUNTE	ed aluminum		S HIS IS AN INTERIOR SIGNAGE IDENTIFICATION, REFER TO SPECIFICATIONS FOR INTERIOR SIGNAGE TYPE AND SCHEDULED INFORMATION
32'±			
IACENTER (·gyp BD Fascia	12"	
15'-0"			

PRO 13



CONSULT	٩
Medi Rem	High School a Center odeling ackage No.32
Troy, I DRAWING Second Casew	School District Vichigan
ISSUE DAT	ËS
· ·	· · · · · · · · · · · · · · · · · · ·
•	·
•	·
• •	· <u>· </u>
•	•
•	·
1-15-2021	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN CHECKED	
DATE:	ISSUED FOR:

ARCHITECTURE

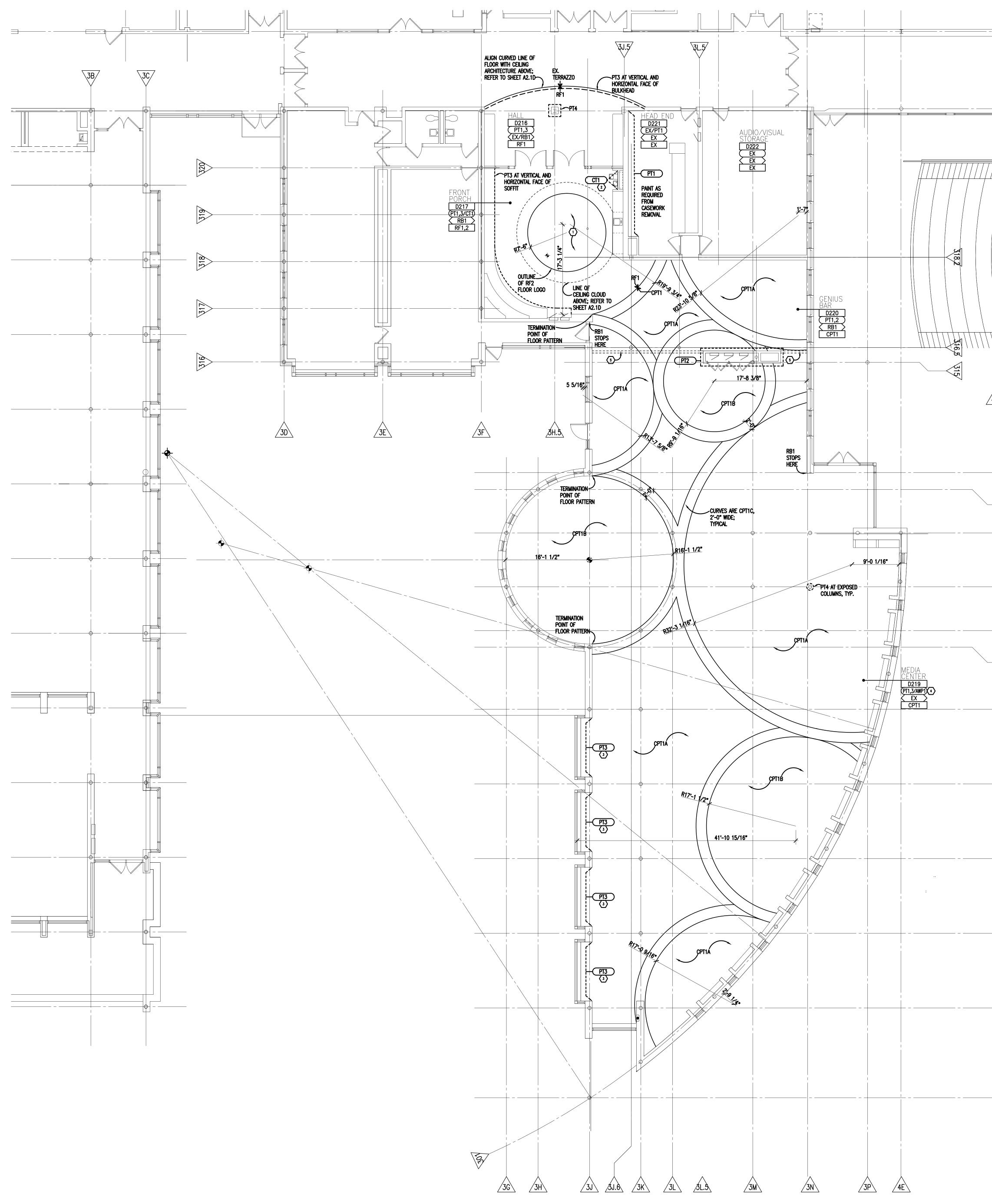
TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302

PH • 248.338.4561 FX • 248.338.0223

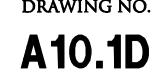
EM • INFO © TMP-ARCHITECTURE.COM

REGISTRATION SEAL

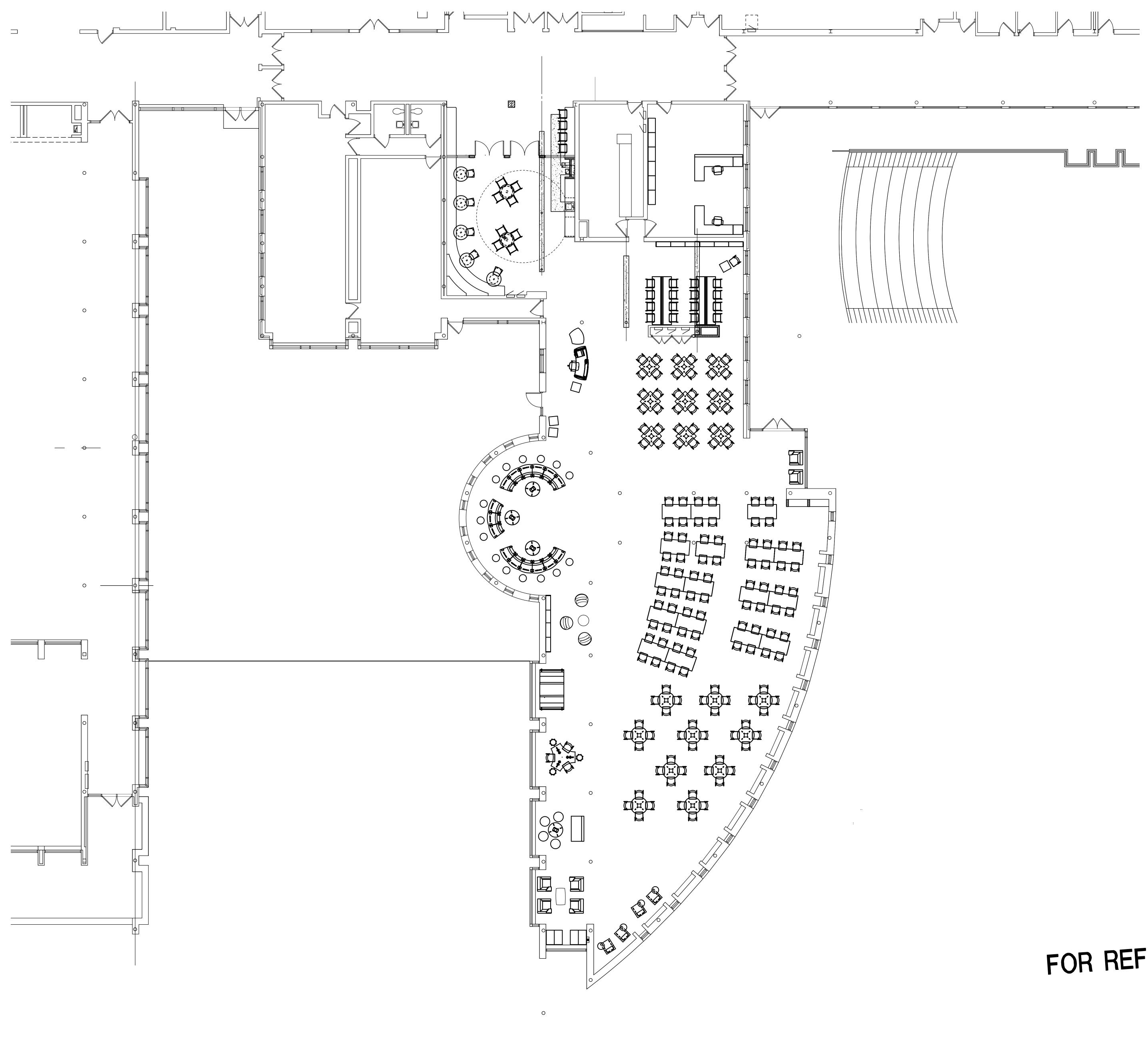


	FINISH LEGEND
	ROOM TAGSFINISH LEGENDROOM NAME AND NUMBER PLUS GENERAL ROOM FINISH INFORMATION.FINISH LEGEND IS GENERAL. REFER TO SPECIFICATIONS FOR SPECIFIC FINISH INFORMATION. MULTIPLE FINISH TYPES ARE DENOTED BY NUMBER FOLLOWING ABBREVIATION.
	CPT CPT-P_CF
	DENOTES PATTERN DETAIL REFER TO "SPECIFIC NOTES" BELOW PLASTIC LAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS AND/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.) WALL FINISH ABBREVIATIONS AWP ACOUSTICAL WALL PANEL CT CERAMIC TILE EX EXISTING (NO NEW FINISH) PT PAINT
	BASE FINISH ABBREVIATIONS EX EXISTING (NO NEW FINISH) NB NO BASE, WALL FINISH EXTENDS TO FLOOR RB RESILIENT BASE
	FLOOR FINISH ABBREVIATIONS CPT CARPET EX EXISTING (NO NEW FINISH) RF RUBBER FLOOR TILE
	GENERAL NOTES 1. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES.
1	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE
1	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM-SEALER. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF STAIR SHALL BE CARPETED.
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM-SEALER. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DEAL ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILES, ETC.) AND ELECTRICAL EQUIPMENT (PARELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM-SEALER. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF STAIR SHALL BE CARPETED. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PARELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPOPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INDE CONNET CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM-SEALER. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF STAIR SHALL BE CARPETED. FLOORING CONTRACTOR SHALL INSTALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED (PT4).
	 REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DEAIN ELEVATIONS AND LOCATIONS. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PARELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM-SEALER. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF STAIR SHALL BE CARPITED. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED (PT4). SPECIFIC NOTES WATERJET CUT FLOOR LOGO OF RF2. REFER TO SPECIFICATION SECTION 096500. LOGO SHALL BE CENTRED BENEATH CEILING ARCHITEOTURE. PROWIDE STAINLESS STEEL COVE WHERE CT1 WALL TILE MEET

SECOND LEVEL FINISH PLAN - ZONE 'D'



A R	CHITECTURE
BLOC PH	ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD OMFIELD HILLS • MICHIGAN • 48302 1 • 248.338.4561 FX • 248.338.0223 • INFO ®TMP-ARCHITECTURE.COM
REGISTRA	FION SEAL
CONSULTA	ANT
Medi Rem	High School a Center odeling ackage No. 32
Troy, M	d Level Plan - D'
L_	
ISSUE DAT	



FOR REFERENCE ONLY



SECOND LEVEL FURNITURE PLAN - ZONE 'D'

Tr Tr Fu Zc



	•
Troy S Troy, N	chool District Iichigan
DRAWING Second Furnitur Zone 'E	l Level re Plan -)'
ISSUE DATE	S
· · · · · · · · · · · · · · · · · · ·	
DRAWN CHECKED	KS
APPROVED	
project n 1317 4 DRAWING	\$H

PROJECT TITLE Troy High School Media Center Remodeling Bid Package No. 32

CONSULTANT

REGISTRATION SEAL

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO ® TMP-ARCHITECTURE.COM

STRUCTURAL GENERAL NOTES

GENERAL

- 1. THIS BUILDING HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2015 EDITION.
- 2. THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE, EXCEPT AS NOTED BELOW. SPECIAL INSPECTIONS WILL BE PERFORMED FOR THE FOLLOWING:
- A. SOILS. B. CONCRETE
- C. MASONRY. I. MASONRY SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402 & TMS 602 AND SHALL BE LEVEL B QUALITY ASSURANCE. D. STEEL.
- I. STEEL SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH AISC
- 3. WHEN "PROFESSIONAL ENGINEER" IS REFERRED TO IN THE FOLLOWING NOTES, IT DENOTES A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, QUALIFIED TO PERFORM THE WORK.
- 4. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE OWNERS REQUIREMENTS FOR ACCESS TO THE SITE AND CONTINUED OPERATIONS DURING CONSTRUCTION.
- 5. THE PLAN, DETAIL DIMENSIONS & ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM AVAILABLE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS, ELEVATIONS & DETAILS AS NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL.
- 6. THE CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND 6. BEFORE PLACING CONCRETE REFER TO ARCHITECTURAL. MECHANICAL AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.
- 7. THE STRUCTURE SHALL BE CONSIDERED TO BE IN AN UNSTABLE CONDITION UNTIL ALL FLOOR, WALL AND ROOF STRUCTURES ARE COMPLETED. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR STABILITY AND TO RESIST LATERAL LOADS DURING ERECTION.
- 8. ALL NON LOAD BEARING WALLS, EXCEPT INDICATED SHEAR WALLS, SHALL BE CONSTRUCTED TO ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE ABOVE.
- **DIVISION 2 DEMOLITION/SHORING**
- 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION. SHORING SHALL BE DESIGNED & DETAILED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. SHORING PROCEDURES, DESIGNS AND DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK, ALLOW (2) WEEKS FOR ENGINEER TO REVIEW.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ERECTION PROCEDURE AND SEQUENCING AND TO SUBMIT WRITTEN PROCEDURES TO ENSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENTS DURING ERECTION.
- 3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. IF CONDITIONS EXIST THAT ARE DIFFERENT FROM WHAT IS INDICATED ON THE DRAWINGS, NOTIFY ARCHITECT FOR DIRECTION BEFORE PROCEEDING.
- 4. DUE CARE MUST BE TAKEN NOT TO UNDERMINE OR DISTURB EXISTING SOIL AND FOUNDATIONS WHEN EXCAVATING ADJACENT TO EXISTING FOUNDATIONS. FIELD VERIFY THE DEPTH AND WIDTH OF ANY EXISTING FOOTINGS & NOTIFY ARCHITECT OF ANY INTERFERENCE'S WITH NEW WORK.

DIVISION 3 - CONCRETE

- 1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL REINFORCED CONCRETE: A. AMERICAN CONCRETE INSTITUTE (ACI) ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- B. ACI 315, DETAILS & DETAILING OF CONCRETE REINFORCEMENT. 2. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL SPECIFICATIONS.
- A. DEFORMED BAR REINFORCING: ASTM A615 GRADE 60. B. WELDED WIRE REINFORCEMENT: A1064 (FLAT SHEETS ONLY).
- 3. ALL EXTERIOR CONCRETE (INCLUDING FOUNDATION WALLS, PIERS & FOOTINGS) SHALL BE AS FOLLOWS:
- A. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) = 4500 PSI. B. SLUMP = 3" TO 5".
- C. WATER/CEMENTITIOUS RATIO = 0.45. D. AIR ENTRAINMENT = $6\% \pm 1\%$.
- E. EXPOSURE CLASSES = F3, S0, W1, & C2.
- 4. ALL INTERIOR CONCRETE SHALL BE AS FOLLOWS: A. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) = 4000 PSI. B. SLUMP = 3" TO 5". C. WATER/CEMENTITIOUS RATIO = 0.50. D. EXPOSURE CLASSES = F0, S0, W1, & C1.

BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318.

- 5. SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR
- ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPE SLEEVES, EMBEDDED ITEMS, OPENINGS, EQUIPMENT PADS, ELECTRICAL CONDUITS, RECESSES, DRAINS, ETC. ALL OPENINGS FOR PIPE, CONDUITS, ETC. SHALL BE SLEEVED. MINIMUM SLEEVE SPACING SHALL BE 3 SLEEVE DIAMETERS.
- 7. SUGGESTED CONSTRUCTION AND CONTROL JOINT LOCATIONS ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR MAY DEVIATE FROM SUGGESTED JOINT LOCATIONS WITH PRIOR APPROVAL OF THE ARCHITECT.
- 8. CONCRETE CONTROL JOINTS SHALL BE CUT AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT DISLODGMENT OF AGGREGATES. SAW A CONTINUOUS SLOT TO A DEPTH OF 1/4 THE THICKNESS OF THE SLAB BUT NOT LESS THAN 1". COMPLETE SAWING WITHIN 12 HOURS AFTER PLACEMENT.
- 9. CONCRETE SLAB ON GRADE CONSTRUCTION JOINT DOWELS SHALL CONSIST OF PLATE DOWELS SUCH AS THE DIAMOND DOWEL SYSTEM BY PNA CONSTRUCTION TECHNOLOGIES. INSTALL PER THE MANUFACTURES RECOMMENDATIONS.
- 10. PROVIDE A RECESS IN THE TOP OF FOUNDATION WALLS AT DOOR OPENINGS FOR SUPPORT OF THICKENED FLOOR SLABS AND TO RECEIVE DOOR JAMBS. DEPTH OF RECESS TO BE 2" GREATER THAN THICKNESS OF THE FLOOR SLABS, UNLESS NOTED OTHERWISE.
- 11. PROVIDE BENT CORNER BARS IN ALL WALLS AND FOOTINGS OF THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCEMENT. 12. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3)
- CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS OR EVERY 50 CUBIC YARDS OF CONCRETE CAST (MINIMUM OF (1) SET PER DAY OF CASTING). ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD. CONTRACTOR MADE CONCRETE TEST CYLINDERS ARE NOT ACCEPTABLE.

DIVISION 4 - MASONRY

1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING AND CONSTRUCTION OF ALL MASONRY: A. THE MASONRY SOCIETY (TMS) TMS 402, BUILDING CODE REQUIREMENTS FOR

MASONRY STRUCTURES. B. TMS 602, SPECIFICATIONS FOR MASONRY STRUCTURES. 2. ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'm = 2000 PSI.

3. ALL MORTAR SHALL BE TYPE S, PROPORTIONED BY VOLUME ACCORDING TO ASTM

4. ALL GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI AND SHALL BE PROPORTIONED BY VOLUME ACCORDING TO ASTM C476. 5. ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT ASTM C90, GRADE N,

UNITS UNLESS NOTED OTHERWISE. UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI.

6. ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT (9 GA, HOT DIPPED GALVANIZED) AT 16" O.C. PROVIDE PREFABRICATED CORNER PIECES AT ALL CORNERS AND INTERSECTIONS OF WALLS.

7. ALL DEFORMED BAR REINFORCING SHALL BE ASTM A615, GRADE 60. AT LOCATIONS WHERE REINFORCING IS TO BE WELDED, THE DEFORMED BAR REINFORCING SHALL BE ASTM A706, GRADE 60.

8. LAP SPLICES IN WALLS SHALL BE DETERMINED IN ACCORDANCE WITH TMS 402 AND ARE INDICATED IN THE TYPICAL DETAILS, THE MINIMUM SPLICE SHALL BE 48 BAR DIAMETERS.

9. ALL MASONRY REINFORCING SHALL BE SECURED IN PLACE WITH REBAR POSITIONERS AND SPACERS. 10. ALL VERTICAL MASONRY WALL REINFORCEMENT SHALL BE CENTERED ON THE WALL,

DOWELED INTO THE FOOTINGS, AND GROUTED SOLID, UNLESS NOTED OTHERWISE ON DFTAILS. 11. IN ADDITION TO ALL OTHER REINFORCING IN MASONRY WALLS PROVIDE A MINIMUM OF (1) #5 BAR AT EACH SIDE OF ALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AT

HEIGHT OF WALL. 12. ALL MASONRY WALLS SHALL HAVE A CONTINUOUSLY REINFORCED BOND BEAM NEAR THE TOP OF THE WALL, WITH (2) #5 BARS U.N.O. PROVIDE BENT CORNER BARS AT ALL BOND BEAM INTERSECTIONS. REFER TO APPROPRIATE DETAILS FOR LOCATION OF

CORNERS OR ENDS OF WALLS AND AT BEAM OR LINTEL BEARING. BAR TO BE FULL

BOND BEAM. 13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY WALL BRACING ADEQUATE TO RESIST LATERAL LOADS.

14. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALL CONTROL JOINTS AND EXPANSION JOINTS.

15. UNLESS NOTED OTHERWISE ON PLANS, LINTELS IN NON-LOAD BEARING MASONRY WALLS SHALL BE SIZED AS PER THE LOOSE LINTEL SCHEDULE ON THE DRAWINGS. 16. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR TYPE. SIZE.

LOCATION AND ATTACHMENT REQUIREMENTS FOR MASONRY VENEER AND OTHER CLADDING.

- **DIVISION 5 STRUCTURAL STEEL**
- 1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL. A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- B. AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL
- SPECIFICATIONS: A. W AND WT SHAPES: ASTM A992, GRADE 50 (Fy = 50 KSI). B. MISCELLANEOUS SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI). C. PIPE: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI).
- D. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B (Fy = 46 KSI). E. ALL COLUMN ANCHOR RODS SHALL BE ASTM F1554 (Fy = 36 KSI).
- 3. ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY (AWS) 5. ALL EXCAVATED MATERIAL SHALL BE TRANSPORTED TO A DISPOSAL AREA D1.1 "STRUCTURAL WELDING CODE". E70XX ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD & FX7-ECXX FLUX -ELECTRODE COMBINATION CONFORMING TO AWS A5.17 FOR SUBMERGED ARC METHOD
- 4. ALL BOLTS SHALL BE 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE N BOLTS. ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT BEARING TYPE BOLTS UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZES, DESIGN VALUES, MATERIALS, DIMENSIONS AND CONNECTIONS.
- 6. ALL CONNECTIONS NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED AND DETAILED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
- 7. PROVIDE "SLIP-CRITICAL" CONNECTIONS AT BRACING, WHERE BOLTS ARE IN TENSION AND AT MOMENT CONNECTIONS.
- 8. ALL BEAM CONNECTIONS ARE TO CONFORM TO AISC STANDARD TWO ANGLE WEB CONNECTIONS CAPABLE OF SUPPORTING 66% OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM OR FOR LOADS INDICATED ON DRAWING. NO CONNECTION SHALL CONSIST OF LESS THAN TWO 3/4" DIAMETER BOLTS OR A WELD DEVELOPING LESS THAN 10 KIPS.
- 9. DESIGN HORIZONTAL AND VERTICAL BRACING END CONNECTIONS FOR LOADS INDICATED ON THE DRAWINGS OR 50% OF THE TENSILE CAPACITY OF THE MEMBER WHICHEVER IS GREATER.
- 10. ALL FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE. FIELD WELDING IS NOT ALLOWED EXCEPT WHERE SPECIFICALLY INDICATED OR APPROVED. 11. PROVIDE 3/4" DIAMETER SHOULDER BOLTS WITH LOCK WASHERS AT ALL SLOTTED
- 12. ALL SHOP AND FIELD WELDS SHALL BE VISUALLY INSPECTED PER AWS D1.1. ALL DEFICIENT OR NON CONFORMING ITEMS SHALL BE REPORTED TO THE ENGINEER WHO WILL DETERMINE THE CORRECTIVE ACTION REQUIRED.
- 13. ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.

CONNECTIONS OF WIND COLUMNS OR AS NOTED.

- 14. GROUT REQUIRED UNDER COLUMN BASE PLATES AS SHOWN IN THE DETAILS SHALL BE A STANDARD NON-SHRINK GROUT SUCH AS "MASTERFLOW 100" BY MASTER BUILDERS.
- 15. PRIME PAINT ALL STRUCTURAL STEEL WITH FABRICATOR'S STANDARD LEAD AND CHROMATE- FREE, NONASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MASTER PAINTER INSTITUTE (MPI) #79. APPLY PRIMER ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 1.5 MILS. USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES. TOUCH-UP DAMAGED OR MISSING PAINT AFTER STEEL ERECTION IS COMPLETE. OMIT PAINT AT: HOLES FOR SLIP CRITICAL CONNECTIONS, AT STEEL TO BE FIRE PROOFED. AT STEEL ENCASED IN CONCRETE AND ON THE TOP FLANGE OF STEEL BEAMS WITH SHEAR CONNECTIONS.
- 16. PROVIDE AND HAVE IN PLACE ADEQUATE LATERAL BRACING AND VERTICAL SUPPORTS FOR THE SAFE ERECTION AND TRUE ALIGNMENT OF THE STRUCTURAL STEEL. THIS CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE SAFE ERECTION AND TEMPORARY BRACING OF STRUCTURAL STEEL.
- 17. VERIFY NUMBER AND SIZE OF OPENINGS IN ROOF, WALLS AND FLOOR WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. SEE DETAILS, AND SPECIFICATIONS, FOR STRUCTURAL REQUIREMENTS. VERIFY ALL INFORMATION WITH THE APPROPRIATE CONTRACTOR.
- 18. ALL DIMENSIONS RELATED TO STRUCTURAL STEEL USED TO SUPPORT EQUIPMENT OR FRAME OPENINGS SHALL BE VERIFIED WITH CERTIFIED AND APPROVED SHOP DRAWINGS OF PURCHASED EQUIPMENT PRIOR TO DETAILING AND FABRICATION. 19. PROVIDE L3x3x1/4 SHELF ANGLES AT TOPS OF COLUMNS AS REQUIRED TO SUPPORT
- ROOF DECK. 20. ALL EDGES OF METAL DECK SHALL BE SUPPORTED AT A CHANGE IN DECK SPAN
- WHETHER SHOWN ON DRAWINGS OR NOT. PROVIDE TUBE STEEL OR A DOUBLE ANGLE BETWEEN JOIST OR STRUCTURAL STEEL AND METAL DECK. 21. ALL FREE EDGES OF METAL DECK SHALL BE SUPPORTED WITH AN EDGE ANGLE
- L3x3x1/4 OR OTHER SUITABLE SUPPORT. THIS SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT. 22. ALL BEAMS, JOISTS, OR LINTELS BEARING ON MASONRY WALLS SHALL HAVE BEARING
- PLATES WITH ANCHOR BOLTS. IF NOT NOTED ON PLAN, SEE TYPICAL DETAILS. 23. ALL WF BEAMS SUPPORTING MASONRY AND WITH SPANS GREATER THAN 6'-0" SHALL HAVE 1/2" DIAMETER BY 6" LONG HEADED CONCRETE ANCHORS SPACED AT 2'-0" O.C.
- 24. ALL STEEL IN EXTERIOR MASONRY WALLS IS TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-193.

WELDED TO THE TOP FLANGE.

- **DIVISION 31 FOUNDATIONS/BACKFILI**
- THIS PROJECT. 2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING CAPACITY OF
- ENGINEERED FILL. LOCATIONS, IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT THE FOOTING
- LOWERED AT THE DIRECTION OF THE ENGINEER.
- THAT EXISTING UTILITIES ARE NOT DAMAGED. DESIGNATED BY THE OWNER ALL EXCAVATIONS SHALL CONFORM TO MI-OSHA REQUIREMENTS. ANY PERCHED GROUNDWATER ENTERING THE EXCAVATION SHALL BE PUMPED PRIOR TO PLACING CONCRETE.

LIFT (MINIMUM OF (3) TEST PER LIFT).

1.	CONTRACTOR SHALL REVIEW A COPY OF THE GEOTECHNICAL REPORT PREPARED FOR
	THIS PROJECT.

3000 PSF. FOUNDATIONS SHALL BEAR ON NATURAL UNDISTURBED SOILS OR ON

3. THE OWNER WILL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MONITOR THE FOUNDATION WORK AND DETERMINE THE QUALITY OF THE SOIL AT ALL FOOTING LOCATIONS, THE UNSUITABLE SHALL BE REMOVED AND REPLACED OR THE FOOTINGS

4. THE CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC. DUE CARE SHALL BE EXERCISED DURING EXCAVATION SUCH

6. ALL BACKFILL MATERIALS SHALL CONFORM TO MDOT CLASS II MATERIAL. ALL BACKFILL SHALL BE PLACED IN 9" LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR). FIELD DENSITY TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D-2922 OR D-1556 WITH A MINIMUM OF 1 TEST PER 1500 SQ FEET OF AREA PER 9"

DESIGN	I CRITERIA	

MICHIGAN BUILDING CODE 2015 (ASCE 7-10) RISK CATEGORY III. ROOF DEAD LOADS FPDM INSULATION 1 1/2" METAL DECK

 STRUCTURAL STEEL CEILING SAP MECHANICAL AND ELECTRICAL MISCELLANEOUS

ROOF LIVE LOADS MINIMUM LOAD

TOTAL

SNOW LOADS

 IMPORTANCE FACTOR GROUND SNOW LOAD SNOW EXPOSURE FACTOR

 THERMAL FACTOR FLAT USE SNOW SNOW DRIFT PER ASCE 7

WIND LOADS BASIC WIND SPEED EXPOSURE CATEGORY

 COMPONENTS AND CLADDING PER ASCE 7 SEISMIC DESIGN DATA

 SITE CLASS RESPONSE COEFFICIENTS

SEISMIC DESIGN CATEGORY

1 PSF 1 PSF 2 PSF 5 PSF 2 PSF 5 PSF <u>4 PSF</u> 20 PSF

 $|_{s} = 1.1$ Pa = 25 PSF C_e = 1.0 $C_{t} = 1.0$ P_f = 20 PSF (TYPICAL ROOF)

120 MPH (3 SEC GUST)

SD_S = 0.093 SD₁ = 0.072

AT ADDITIONAL BOTTOM CHORD BOTTOM OF
BOTTOM OF DECK BOTTOM OF FOOTING BOTTOM OF STEEL BOTTOM OF TRUSS BOTH SIDES
BEAM BOTTOM CENTER LINE CONTROL JOINT
COLUMN CONCRETE CONTINUOUS CONSTRUCTION JOINT DETAIL
DIAMETER DIAGONAL DIMENSION DEAD LOAD DRAWING
EACH EQUAL EXISTING FAR SIDE
FIELD VERIFY FINISH FLANGE FLOOR FOUNDATION
FOOT FOOTING GAGE GIRT LINE HIGH POINT
HORIZONTAL KIPS LOW POINT LIVE LOAD
LINE MAXIMUM MINIMUM NEAR SIDE NOT TO SCALE
NUMBER ON CENTER PIECE PLATE PLACES
POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH SECTION SIMILAR
SPACES STANDARD TOP OF TOP OF CONCRETE TOP OF FOOTING
TOP OF MASONRY TOP OF STEEL TYPICAL UNLESS NOTED OTHERWISE
VERTICAL WORK POINT WITH WELDED WIRE REINFORCMENT

ABBREVIATIONS

ADD'

B.O.

B.O.D.

B.O.S.

B.O.F

B.O.

B.S.

BM

C.L.

COL

CONC

CONT

CSJ

DIAG

FI G

FIR

FDN

FTG

ΗP

HORIZ

N.T.S.

SFC

SIM

SPA

T.O.0

T.O.F

T.O.M.

T.O.S.

TYP

U.N.O.

VERT

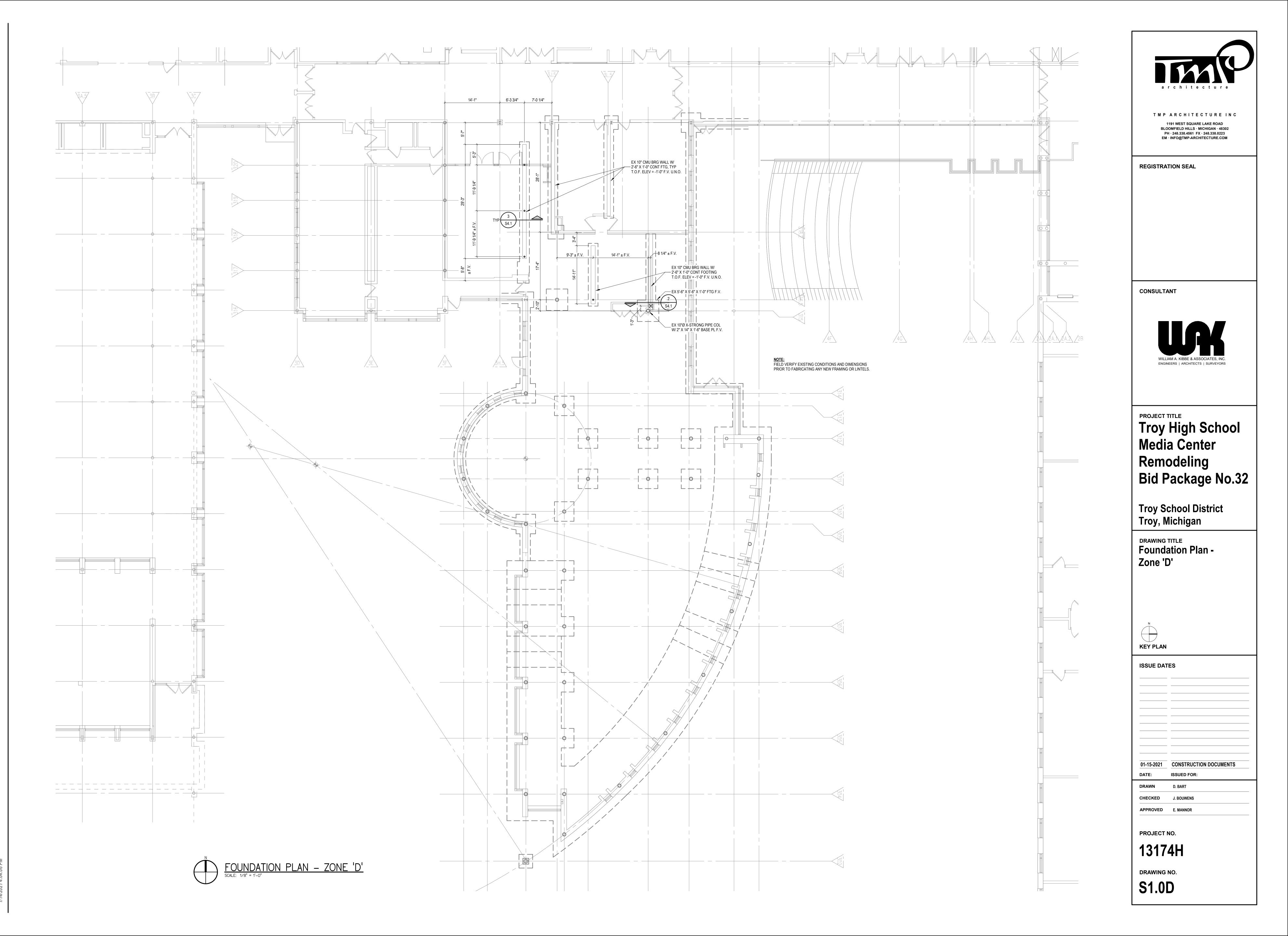
W.P.

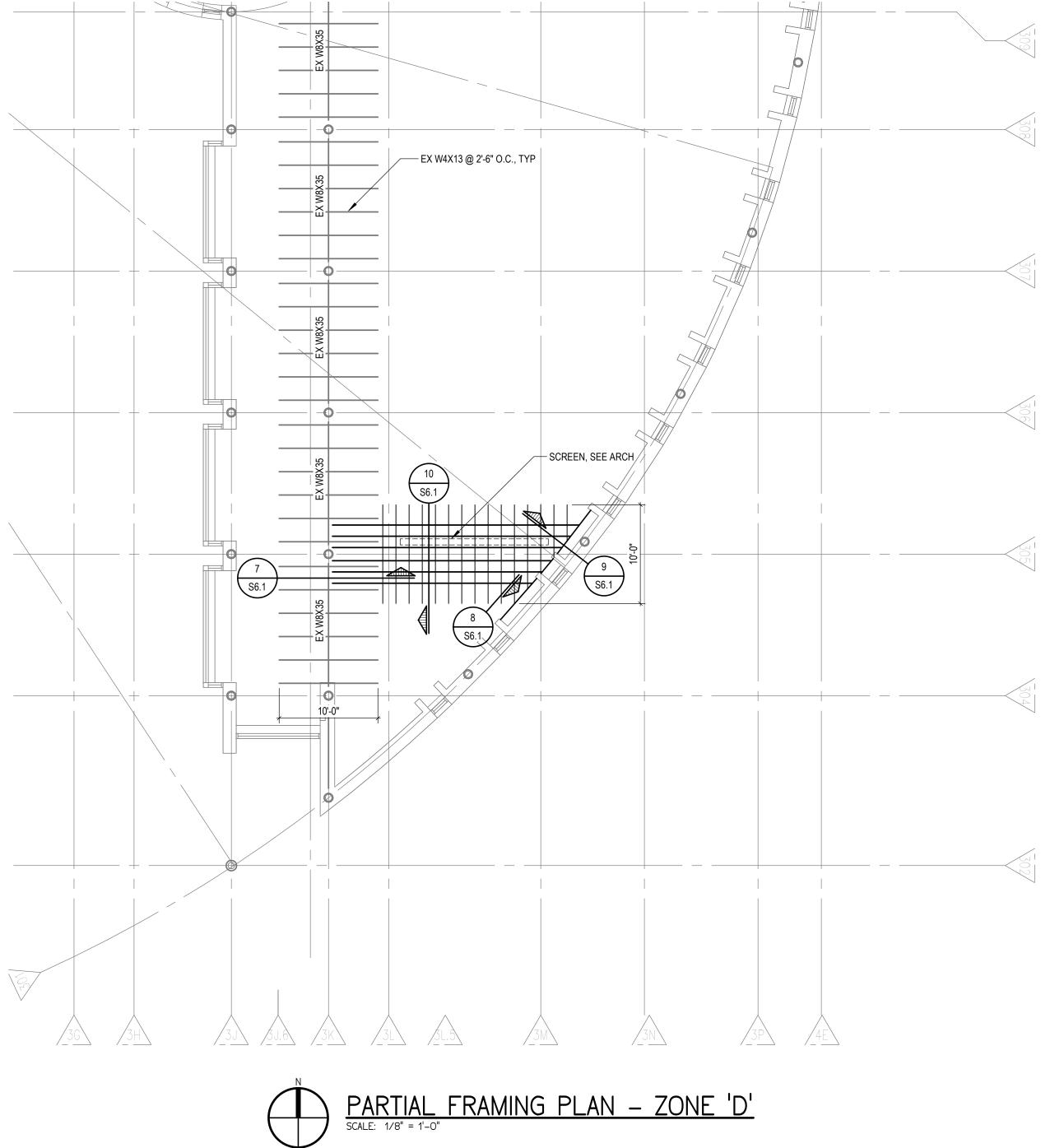
WWF

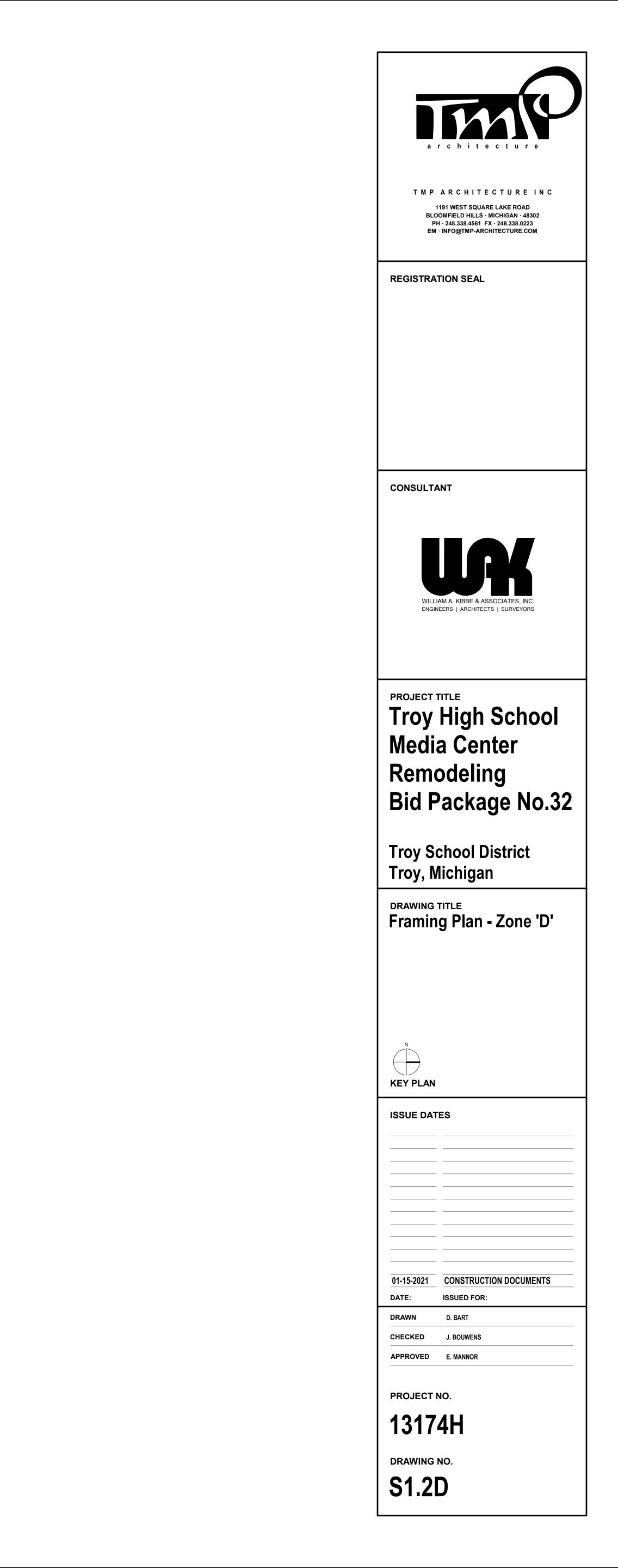
BOTT

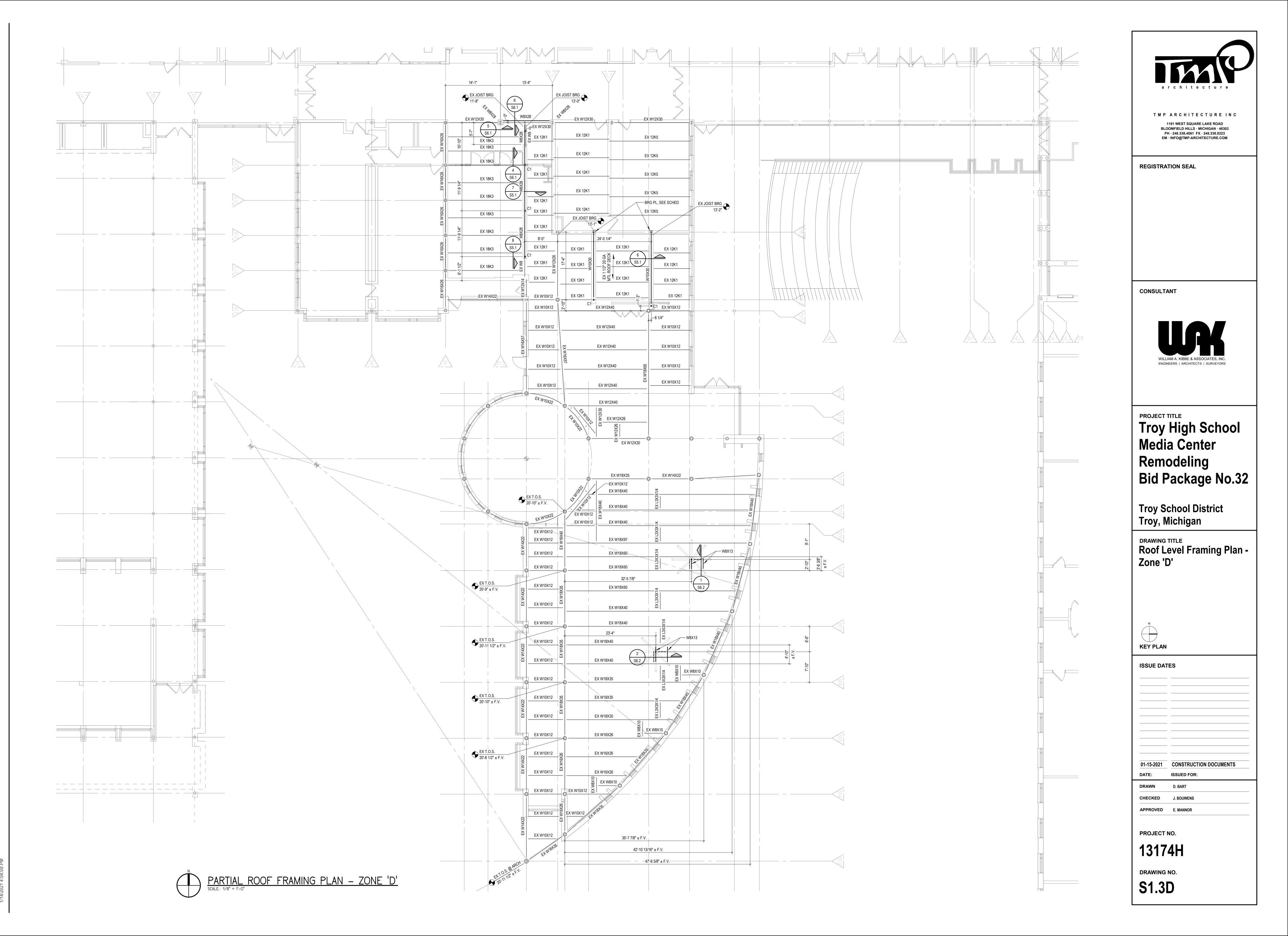
DATE:



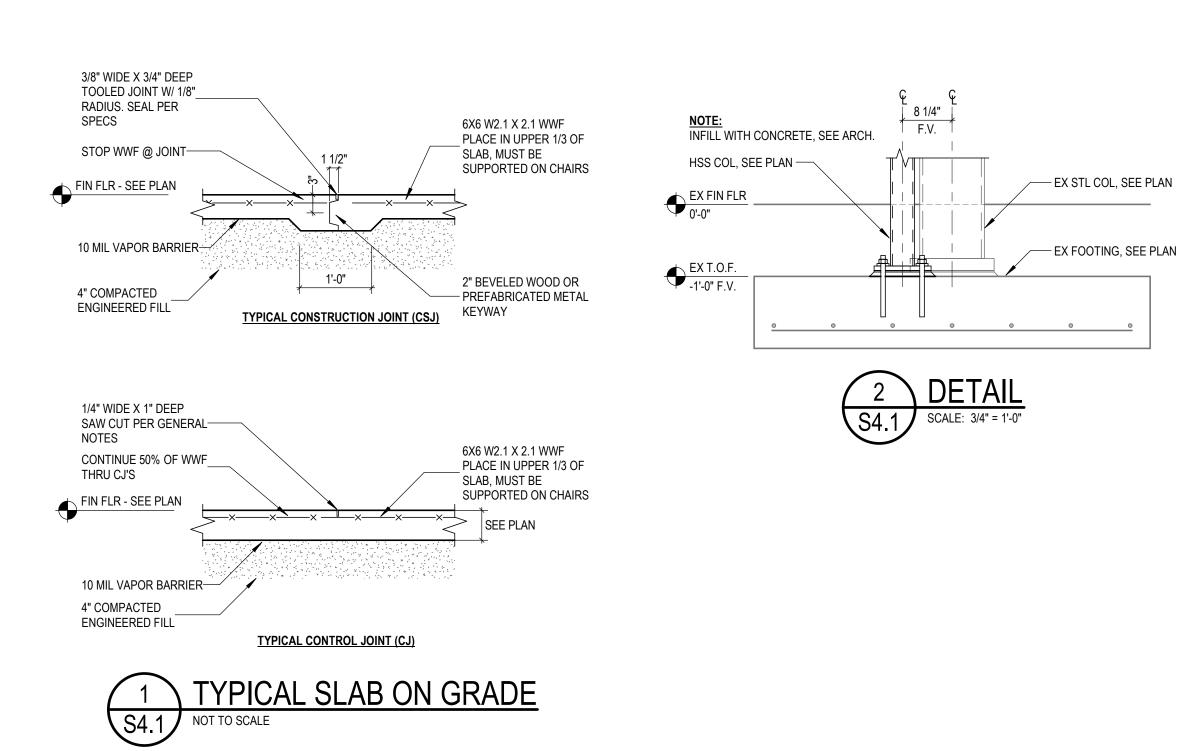


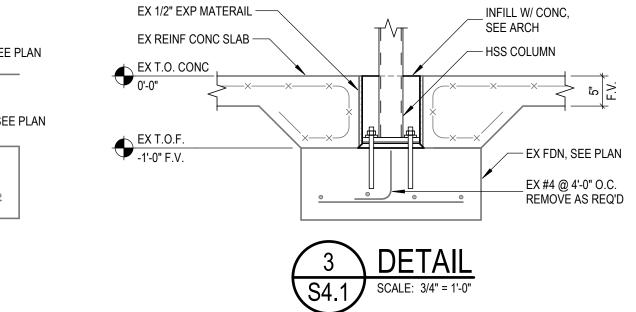




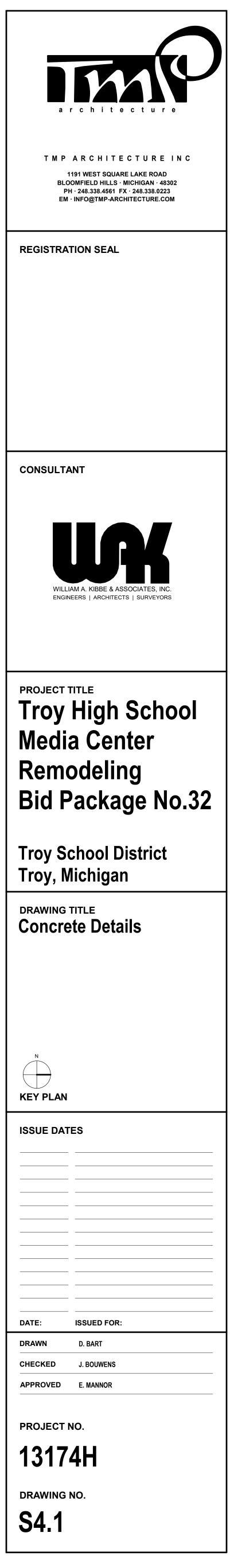


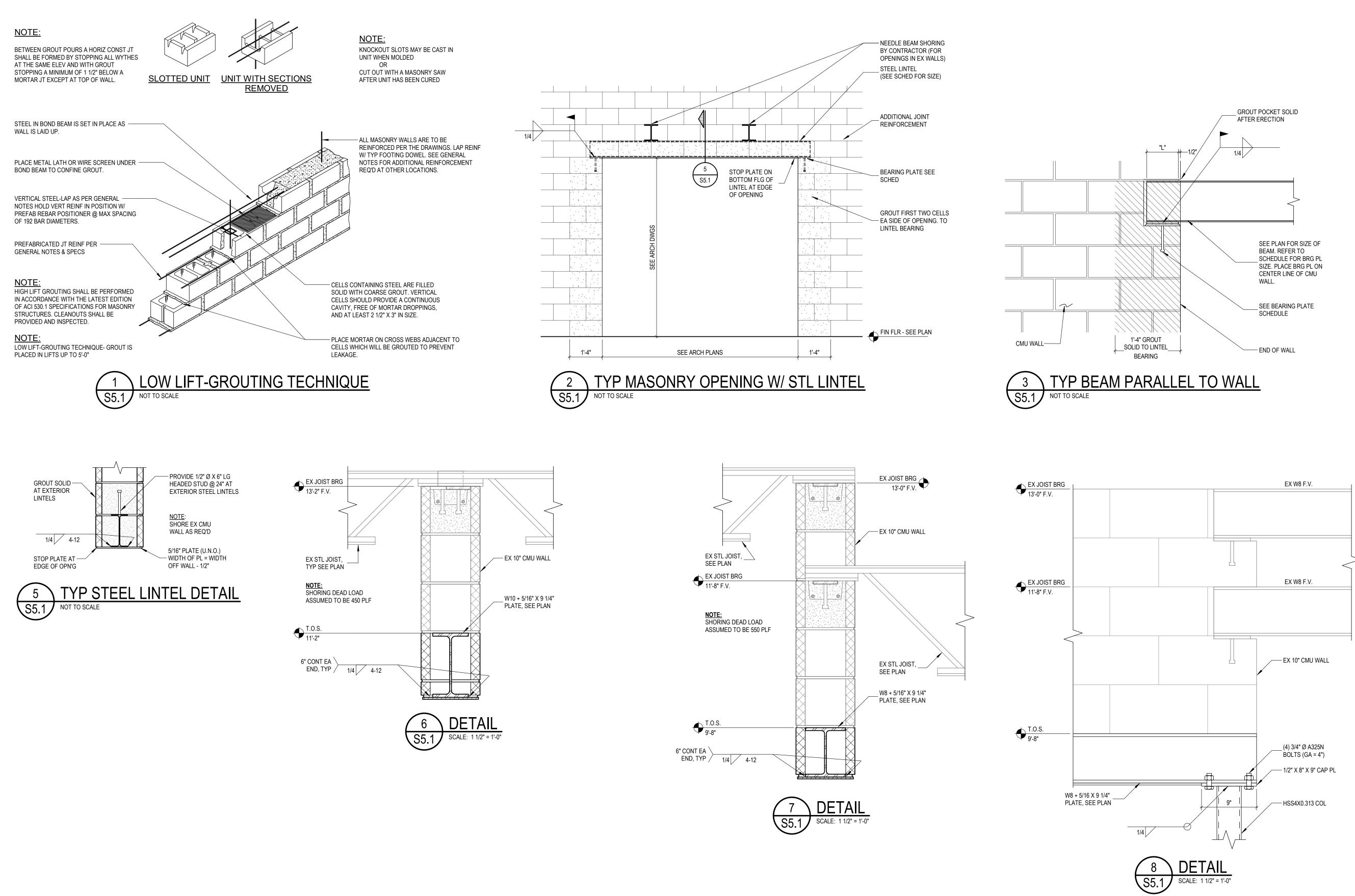
C:\Data\Revit\2014730309_Troy HS Bearing wall Removal_S_V2020_dbartJ8KYL. 1/14/2021 4:04:08 PM

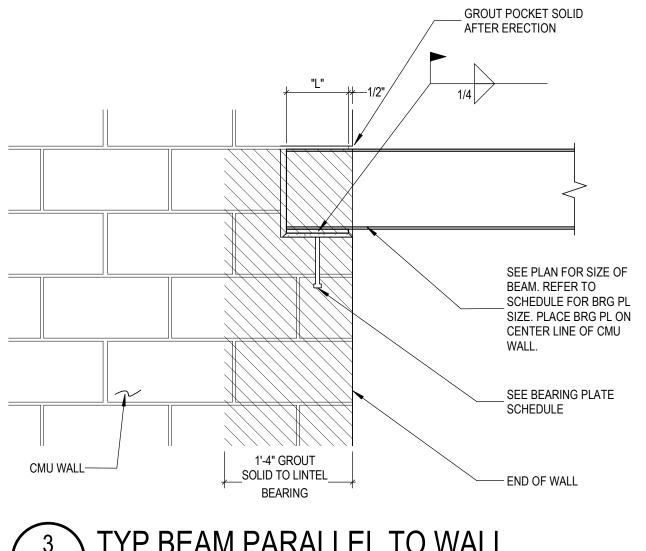


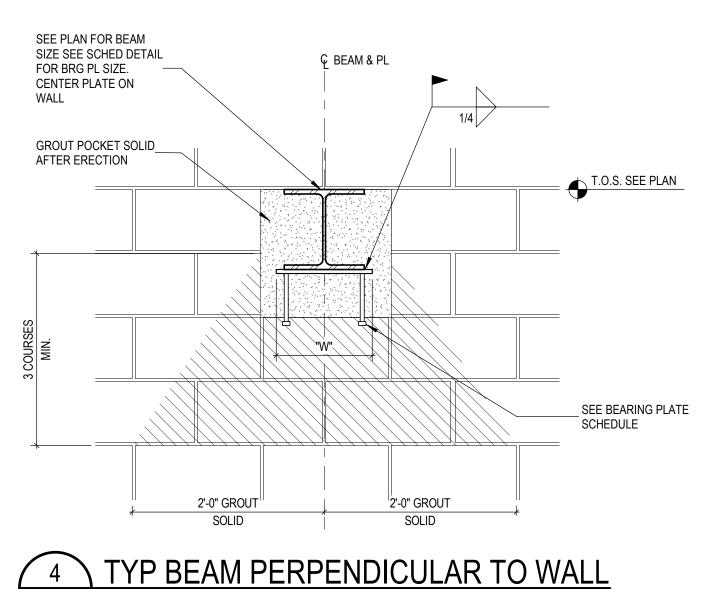


DATE:

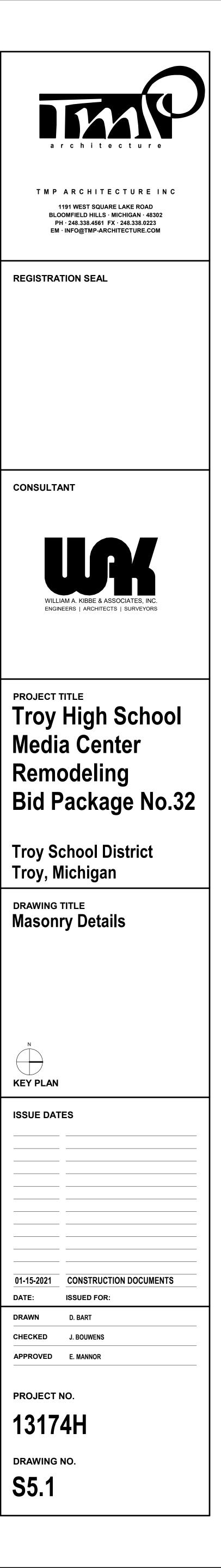


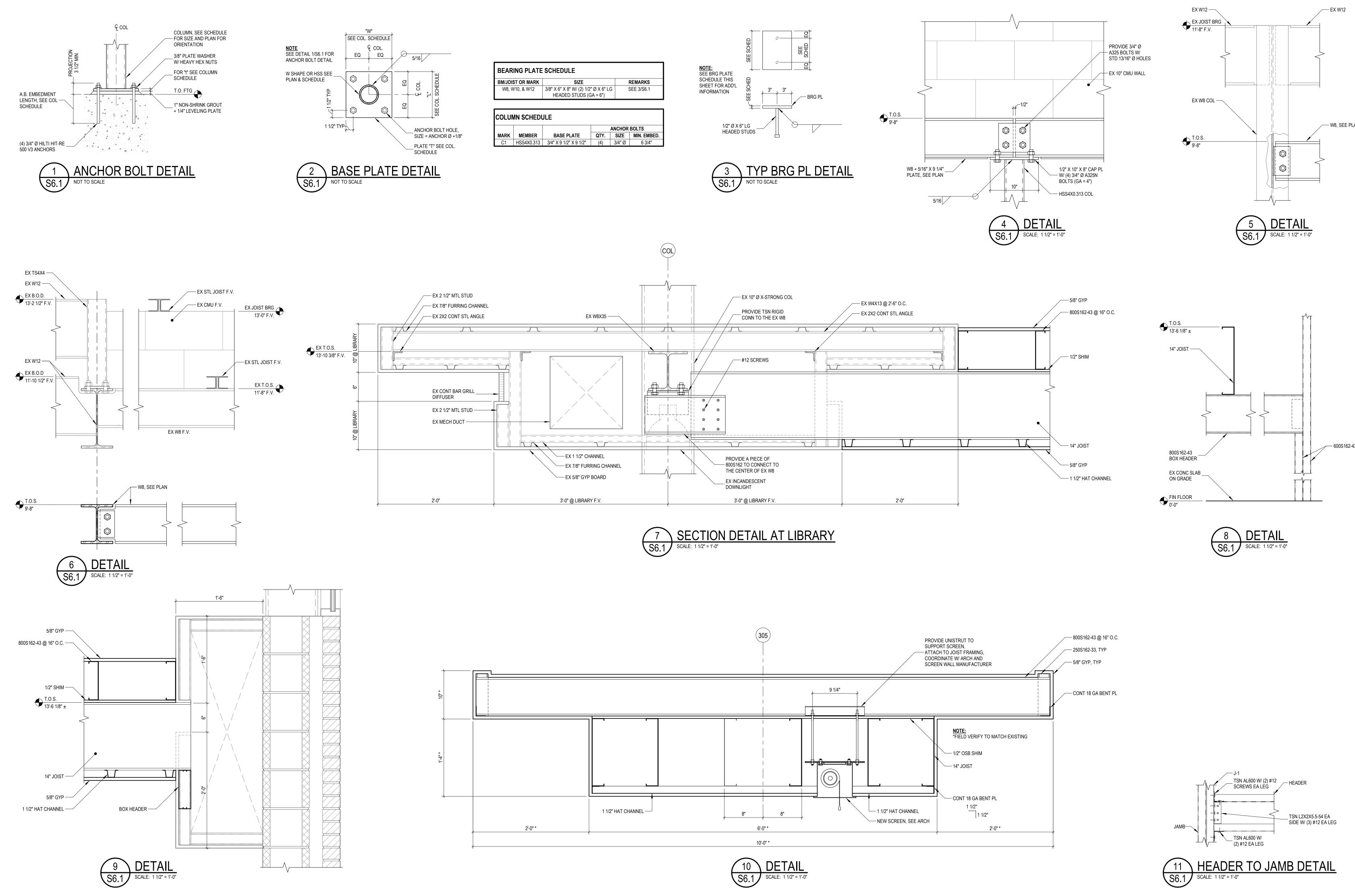


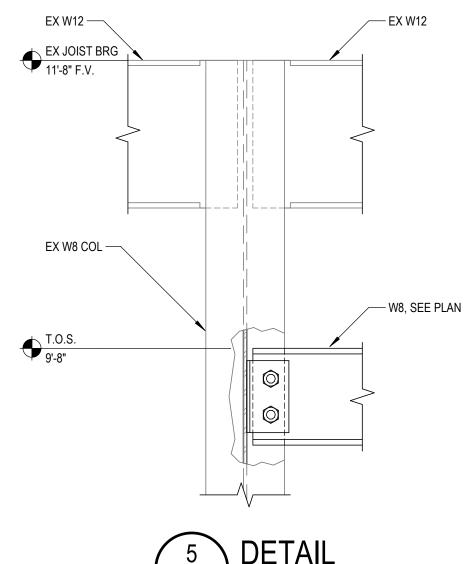




S5.1 NOT TO SCALE





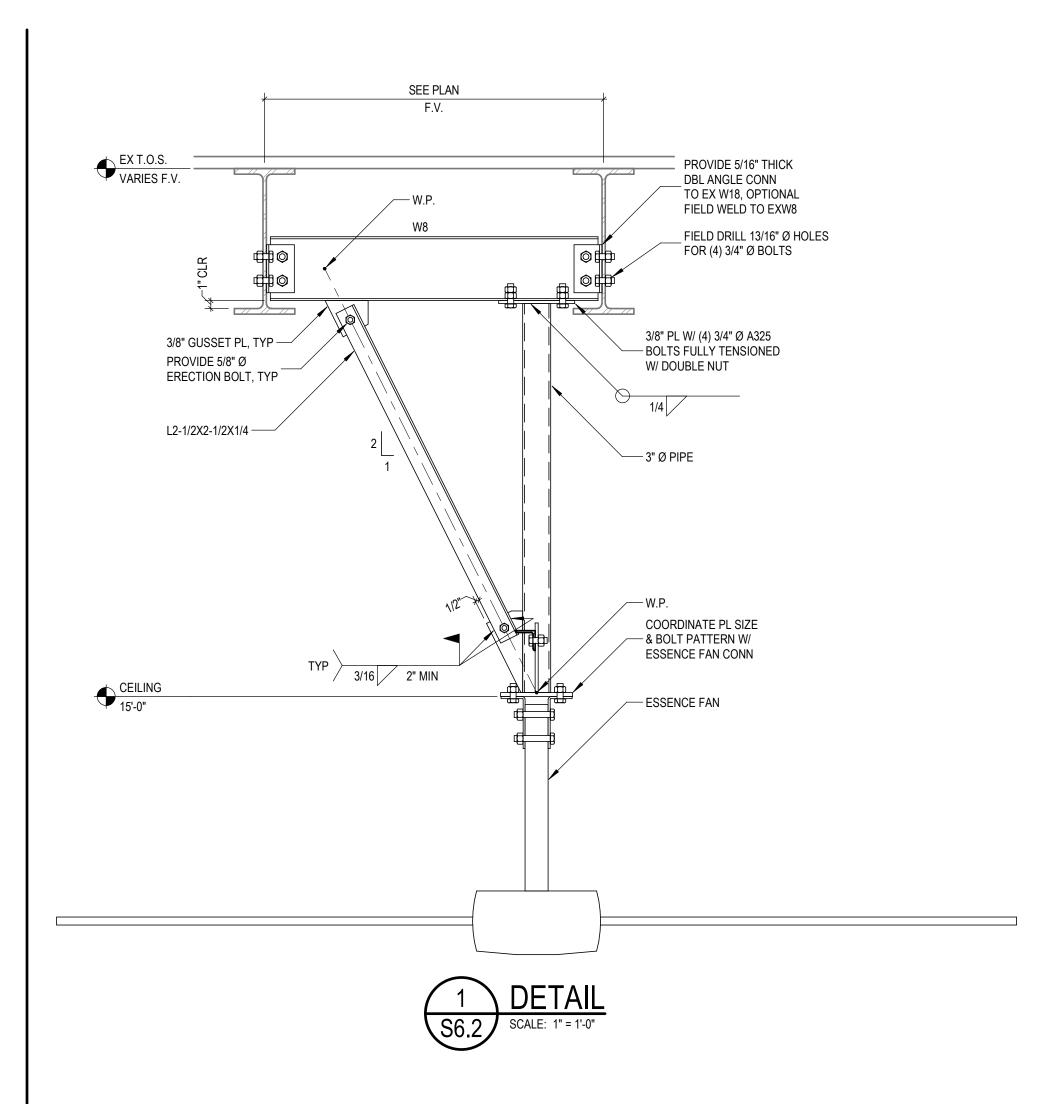


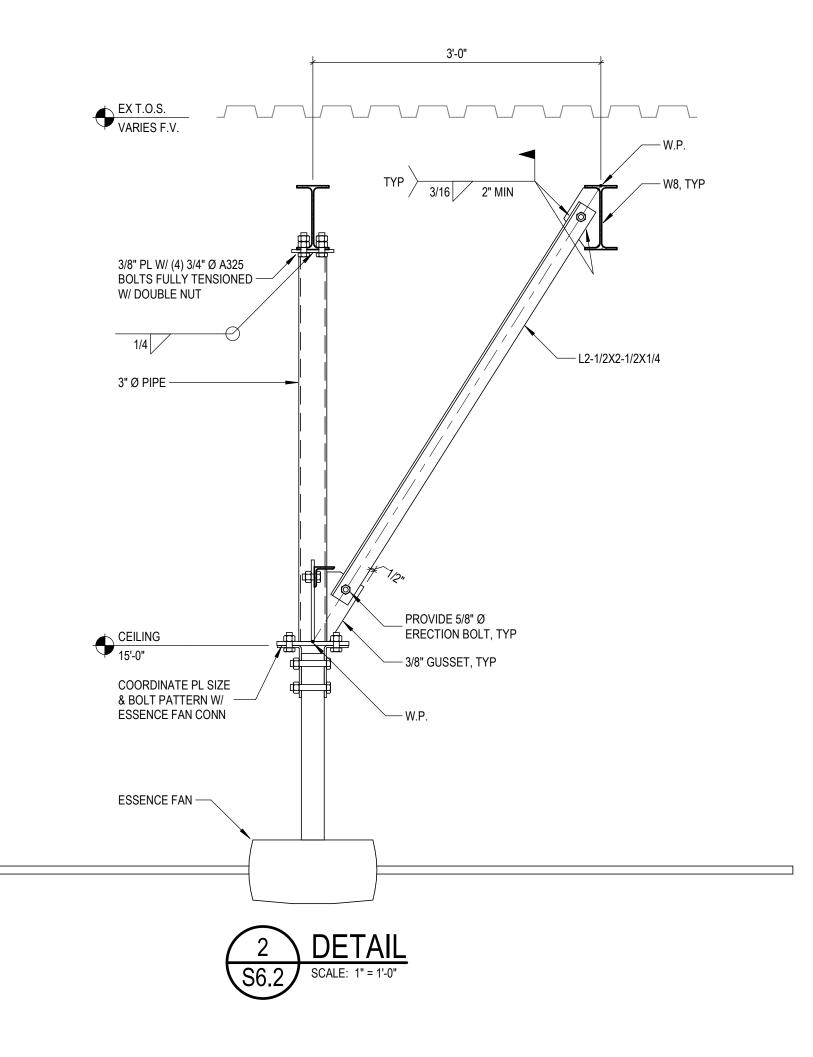












CONSULTANT **ISSUE DATES** DATE: PROJECT NO. 13174H



MECHANICAL ABBREVIATION LIST

	INICAL ABBREVIATION L	.101	
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A A(#)	COMPRESSED AIR COMPRESSED AIR (SPECIFIC PSIG)	FD FFD	FLOOR DRAIN FUNNEL FLOOR DRAIN
AAV	AUTOMATIC AIR VENT	FH	FIRE HYDRANT
ACC ACCU	AIR COOLED CONDENSER AIR COOLED CONDENSING UNIT	FHC FHR	FIRE HOSE CABINET FIRE HOSE RACK
AD	ACCESS DOOR	FHV	FIRE HOSE VALVE
AD AE	AREA DRAIN AIR EXTRACTOR	FLA FLR	FULL LOAD AMPS FLOOR
AFF	ABOVE FINISHED FLOOR	FM	FLOW METER
AHU ALT	AIR HANDLING UNIT ALTERNATE	FMS FPM	Flow measuring station Feet per minute
AMP	AMPERE	FP	FIRE PUMP
APD AR	AIR PRESSURE DROP ARGON	FPTU FS	FAN POWERED (AIR) TERMINAL UNIT FLOOR SINK
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION	FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
ASR	AND AIR-CONDITIONING ENGINEERS AUTOMATIC SPRINKLER RISER	FT FTR	FEET FINNED TUBE RADIATION
ATD	AUTOMATIC SPRINKLER RISER	FV	FACE VELOCITY
AUX AV	AUXILIARY ACID VENT	G	NATURAL GAS
AVTR	ACID VENT THROUGH ROOF	GA	GAUGE
AW	ACID WASTE	GAL	GALLON
BAS	BUILDING AUTOMATION SYSTEM	GRH GPH	GRAVITY RELIEF HOOD GALLONS PER HOUR
BCU	BLOWER COIL UNIT	GPM	GALLONS PER MINUTE
BDD BFF	BACKDRAFT DAMPER BELOW FINISHED FLOOR	GSAN	GREASE SANITARY WASTE
BFP	BACKFLOW PREVENTER	H	HYDROGEN
BHP BOD	BRAKE HORSEPOWER BOTTOM OF DUCT	HB HC	HOSE BIBB HEATING COIL
BOP	BOTTOM OF PIPE	HD	HOT DECK
btu Btuh	BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	HEPA HL	HIGH EFFICIENCY PARTICULATE ARRESTANCE HIGH LIMIT
BVC	BEVERAGE CONDUIT	HOA	HAND/OFF/AUTO
BWV	BACKWATER VALVE	HP HP	HEAT PUMP HORSEPOWER
С	COMMON	HPCW	HIGH PRESSURE DOMESTIC COLD WATER
CAP		HPHW	HIGH PRESSURE DOMESTIC HOT WATER
CAV CB	CONSTANT AIR VOLUME CATCH BASIN	HPHWR HPL	HIGH PRESSURE DOMESTIC HOT WATER RETUR HEAT PUMP LOOP
CC	COOLING COIL	HPLR	HEAT PUMP LOOP RETURN
CD CD	COLD DECK CONDENSATE DRAIN	HPLS HR	HEAT PUMP LOOP SUPPLY HOUR
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	HTG	HEATING
CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	HV HVAC	HEATING VENTILATING HEATING, VENTILATING, AIR CONDITIONING
СН	CHILLER	HWH	HOT WATER HEATING
CHW	CHILLED WATER	HWHR	HOT WATER HEATING RETURN
CHWR CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	HWHS HW	HOT WATER HEATING SUPPLY DOMESTIC HOT WATER
CLG	COOLING	HW()	DOMESTIC HOT WATER (SPECIFIC TEMP *F)
CNDS CNDS(#)	CONDENSATE CONDENSATE (SPECIFIC PSIG)	HWR HX	DOMESTIC HOT WATER RETURN HEAT EXCHANGER
CO	CLEAN OUT	HZ	HERTZ
CO2 CONT	CARBON DIOXIDE CONTINUATION OR CONTINUED	IAQ	INDOOR AIR QUALITY
CONTR	CONTRACTOR	ID	INSIDE DIAMETER
CONV COP	CONVECTOR COEFFICIENT OF PERFORMACE	IE IH	INVERT ELEVATION INTAKE HOOD
CP	CIRCULATING PUMP	IN	INCHES
CRU CSS	CONDENSATE RETURN UNIT CLINICAL SERVICE SINK	IR IW	INFRARED HEATER INDIRECT WASTE
CT	COOLING TOWER	IW	INDIRECT WASTE
CUH	CABINET UNIT HEATER	JC	JANITOR'S CLOSET
CW CWF	DOMESTIC COLD WATER DOMESTIC COLD WATER — FILTERED	JP	JOCKEY PUMP
CWR	CONDENSER WATER RETURN	КА	THOUSAND AMP
CWS	CONDENSER WATER SUPPLY	KW KWH	KILOWATT KILOWATT-HOUR
D&T	DRIP AND TRAP		
DA DAT	DISCHARGE AIR DISCHARGE AIR TEMPERATURE	LAT LAB	LEAVING AIR TEMPERATURE LABORATORY
DB	DRY BULB	LAV	LAVATORY
DDC DEG	DIRECT DIGITAL CONTROL DEGREE	LBS LDB	POUNDS LEAVING DRY BULB
DFU	DRAINAGE FIXTURE UNITS	LL	LOW LIMIT
dia DMPR	DIAMETER DAMPER	LPC LPS	LOW PRESSURE CONDENSATE LOW PRESSURE STEAM
DMFR D/N	DAMPER		LOCKED ROTOR AMPS
		LWB	LEAVING WET BULB
DNZ DS	DOWNSPOUT NOZZLE DUCT SILENCER	LWT	LEAVING WATER TEMPERATURE
DT	DRAIN TILE	MA	MIXED AIR
DTC DWH	DRAIN TILE CONNECTION DOMESTIC WATER HEATER	MAT MAU	MIXED AIR TEMPERATURE MAKE-UP AIR UNIT
DWG	DRAWING	MAX	MAXIMUM
(F)	EXISTING	MBH MCA	THOUSAND BRITISH THERMAL UNITS PER HOU MEDICAL COMPRESSED AIR
(E) E	EXHAUST GRILLE OR REGISTER	MCA	MINIMUM CIRCUIT AMPACITY
EA EA	EACH EXHAUST AIR	MCC MECH	MOTOR CONTROL CENTER MECHANICAL
EAT	ENTERING AIR TEMPERATURE	MEZZ	MEZIANINE
EC ECUH	EXPANSION COMPENSATOR ELECTRIC CABINET UNIT HEATER	MFR MH	MANUFACTURER MANHOLE
EDB	ENTERING DRY BULB	MIL	1/1000th INCH
EER EES	ENERGY EFFICIENCY RATIO EMERGENCY EYE WASH / SHOWER	MIN MISC	MINIMUM MISCELLANEOUS
EEW	EMERGENCY EYE WASH	MMBH	MILLION BRITISH THERMAL UNITS PER HOUR
EF	EXHAUST FAN	MOP	MAXIMUM OVERCURRENT PROTECTION
EFF EHC	EFFICIENCY ELECTRIC HEATING COIL	M/S MTD	MOTOR STARTER MOUNTED
EJ	EXPANSION JOINT	MTR	MOTOR
EL ELEC	ELEVATION ELECTRICAL	MV MVAC	MANUAL AIR VENT MEDICAL VACUUM
EMS	ENERGY MANAGEMENT SYSTEM		
ERL ERLR	ENERGY RECOVERY LOOP ENERGY RECOVERY LOOP RETURN	N N2O	NITROGEN NITROUS OXIDE
ERLS	ENERGY RECOVERY LOOP SUPPLY	NC	NOISE CRITERIA
eru Esh	ENERGY RECOVERY UNIT EMERGENCY SHOWER	NC NCTC	NORMALLY CLOSED NORMALLY CLOSED TIMED CLOSED
ESP	EXTERNAL STATIC PRESSURE	NCTO	NORMALLY CLOSED TIMED OPEN
EUH	ELECTRIC UNIT HEATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER	NOTC NOTO	NORMALLY OPEN TIMED CLOSED NORMALLY OPEN TIMED OPEN
EWT	ENTERING WATER TEMPERATURE	NIC	NOT IN CONTRACT
EXH	EXHAUST	NO NOM	NORMALLY OPEN NOMINAL
F	FIRE PROTECTION	NPCW	NOMINAL NON POTABLE COLD WATER
ዮ ₣ ራ ₿	DEGREES FAHRENHEIT FACE AND BYPASS	0	OXYGEN
F&B F&T	FACE AND BYPASS FLOAT AND THERMOSTATIC	0 OA	OXYGEN OUTSIDE AIR
FA	FACE AREA	OAT	OUTSIDE AIR TEMPERATURE
FCU	FAN COIL UNIT	OB OBD	OUTLET BOX OPPOSED BLADE DAMPER
		00	ON CENTER/CENTER TO CENTER
		OD OED	OUTSIDE DIAMETER OPEN ENDED DUCT
		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
		OFOI OL	OWNER FURNISHED, OWNER INSTALLED OVERLOAD
		ORC	OVERFLOW RAIN CONDUCTOR
		ORD	OVERFLOW ROOF DRAIN
		OS&Y OV	OUTSIDE SCREW AND YOKE OUTLET VELOCITY
		OWS	OPERATOR WORKSTATION

FIRE HOSE RACK FIRE HOSE VALVE FULL LOAD AMPS FLOW METER FLOW MEASURING STATION FEET PER MINUTE FIRE PUMP FAN POWERED (AIR) TERMINAL UNIT FLOOR SINK FOOD SERVICE EQUIPMENT CONTRACTOR FINNED TUBE RADIATION FACE VELOCITY NATURAL GAS GRAVITY RELIEF HOOD GALLONS PER HOUR GALLONS PER MINUTE GREASE SANITARY WASTE HEATING COIL HIGH EFFICIENCY PARTICULATE ARRESTANCE HAND/OFF/AUTO HEAT PUMP HORSEPOWER HIGH PRESSURE DOMESTIC COLD WATER HIGH PRESSURE DOMESTIC HOT WATER HIGH PRESSURE DOMESTIC HOT WATER RETURN HEAT PUMP LOOP HEAT PUMP LOOP RETURN HEAT PUMP LOOP SUPPLY HEATING VENTILATING HEATING, VENTILATING, AIR CONDITIONING HOT WATER HEATING HOT WATER HEATING RETURN HOT WATER HEATING SUPPLY DOMESTIC HOT WATER DOMESTIC HOT WATER (SPECIFIC TEMP *F) DOMESTIC HOT WATER RETURN HEAT EXCHANGER INDOOR AIR QUALITY INSIDE DIAMETER INVERT ELEVATION INTAKE HOOD INFRARED HEATER INDIRECT WASTE JANITOR'S CLOSET JOCKEY PUMP THOUSAND AMP KILOWATT-HOUR LEAVING AIR TEMPERATURE LABORATORY POUNDS LEAVING DRY BULB LOW PRESSURE CONDENSATE LOW PRESSURE STEAM LOCKED ROTOR AMPS LEAVING WET BULB LEAVING WATER TEMPERATURE Mixed Air Mixed Air Temperature MAKE-UP AIR UNIT THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL MANUFACTURER

ABBREVIATION

PACU

PCWR

PCWS

PD

PH PHR PHS

PNL PPM PRESS

PRV PSAN

PST

PSI

PSIA PSIG

PW

PWR

PWS

RA RAT

RC

RCP

RD

RF

RLFA

RPM RPDA RPZA

rtu

SA

SAN SAT

SECT

SCCR

SF

SK

SMR

SMS

SPEC SPKLR SQFT

s/s

ST

STD

STK

STM

S/WÌ

SW

STM(__#)

SP

REQD

PBD

PC PCW

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST DESCRIPTION

<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>SYMBOL</u>	DESCRIP IION
C02	CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
СО	CARBON MONOXIDE SENSOR	PT	PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FM	FLOW METER	R	VALVE - 2 WAY CONTROL VALVE
	GUARD FOR STAT OR SENSOR	£₩	VALVE - 3 WAY CONTROL VALVE
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)		THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

DESCRIPTION		NCAL SYMBOL LIST s	DUCTWORK SY	/MBOLS
PACKAGED AIR CONDITIONING UNIT	<u>SYMBOL</u>	DESCRIPTION	SYMBOL	DESCRIPTION
PARALLEL BLADE DAMPER PUMPED CONDENSATE	ΔAV	AIR VENT – AUTOMATIC	·	AIR TERMINAL UNIT
PROCESS COOLING WATER PROCESS COOLING WATER RETURN	¥v	AIR VENT - MANUAL	, <u> </u>	AIR TERMINAL UNIT WITH HEATING COIL
PROCESS COOLING WATER SUPPLY PRESSURE DROP (FEET OF WATER)		BACKFLOW PREVENTER CATCH BASIN		VENTURI AIR TERMINAL UNIT
PERIMETER HEAT PERIMETER HEAT RETURN		CATCH BASIN CIRCULATING PUMP		
PERIMETER HEAT SUPPLY PANEL	0	CLEAN OUT - IN FLOOR	√ <u>VTU-101</u>	VENTURI AIR TERMINAL UNIT WITH HEATING COIL
PARTS PER MILLION PRESSURE	I ^{co}	CLEAN OUT - FLANGE		DAMPER – HORIZONTAL FIRE (EXISTING, NEW)
PRESSURE REDUCING VALVE PUMPED SANITARY		DIRECTION OF FLOW		DAMPER – HORIZONTAL FIRE / SMOKE (EXISTING, NEW)
PUMPED STORM POUNDS PER SQUARE INCH		DIRECTION OF PITCH - DOWN FINNED TUBE RADIATION		DAMPER – SMOKE (EXISTING, NEW)
POUNDS PER SQUARE INCH – ABSOLUTE POUNDS PER SQUARE INCH – GAUGE		FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING		
PURIFIED WATER PURIFIED WATER RETURN	\rightarrow	FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED		DAMPER – VERTICAL FIRE (EXISTING, NEW)
PURIFIED WATER SUPPLY	•	FIRE PROTECTION - SPRINKLER HEAD, CONCEALED		DAMPER – VERTICAL FIRE / SMOKE (EXISTING, NEW)
RELOCATED	@	FIRE PROTECTION - SPRINKLER HEAD, PENDANT	BDD	DAMPER – BACK DRAFT
RETURN GRILLE OR REGISTER RETURN AIR		FIRE PROTECTION – SPRINKLER HEAD, UPRIGHT FIRE PROTECTION – SPRINKLER HEAD, SIDEWALL	M	DAMPER - MOTORIZED
RETURN AIR TEMPERATURE RAIN CONDUCTOR		FLOOR DRAIN	, 	DAMPER – VOLUME (MANUALLY ADJUSTABLE)
RADIANT CEILING PANEL ROOF DRAIN	_ ک	FLOOR DRAIN - ELEVATION		
REQUIRED ROOF EXHAUST FAN		FLOOR DRAIN - FUNNEL		DIFFUSER – BLANK OFF
RETURN FAN RELATIVE HUMIDITY	<u>م></u> 7	FLOOR DRAIN - FUNNEL, ELEVATION		DIFFUSER – LINEAR SLOT
REFRIGERANT LIQUID RELIEF AIR		FLOW MEASURING DEVICE (FOR TEST AND BALANCING)	X	DIFFUSER – SQUARE OR RECTANGULAR
REVOLUTIONS PER MINUTE REDUCED PRESSURE BACKFLOW PREVENTION DETECTION ASS		FLOW SWITCH FLOW METER		DUCT CROSS SECTION - SUPPLY
REDUCED PRESSURE BACKFLOW PREVENTION ZONE ASSY REFRIGERANT SUCTION	,Н ^{нв}	HOSE BIBB		
ROOFTOP UNIT		MANHOLE		DUCT CROSS SECTION - RETURN
SUPPLY AIR DIFFUSER OR GRILLE	O	OPEN SITE DRAIN	\square	DUCT CROSS SECTION - EXHAUST
SOUND ATTENUATOR SUPPLY AIR	—— <u>×</u>	PIPE - ANCHOR		DUCT - FLEXIBLE CONNECTION
SANITARY WASTE SUPPLY AIR TEMPERATURE	j	PIPE – CAP OR PLUG PIPE – ELBOW DOWN		DUCT - FLEXIBLE DUCT
SECTION SHORT CIRCUIT CURRENT RATING	0	PIPE - ELBOW UP	((
SUPPLY FAN SHOWER	— <u> </u>	PIPE - EXPANSION JOINT OR COMPENSATOR) Ţ	DUCT TAKE-OFF - ROUND CONICAL
SINK SNOW MELT RETURN	II	PIPE – FLANGE	۲ م ۱	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
SNOW MELT SUPPLY STATIC PRESSURE		PIPE - HOSE AND BRAID FLEXIBLE CONNECTION	ζ.	ELBOW – RECTANGULAR WITH TURNING VANES
SPECIFICATION SPRINKLER		PIPE - RUBBER FLEXIBLE CONNECTION PIPE - GUIDE	5	ELBOW – RECTANGULAR/ ROUND SMOOTH RADIUS
SQUARE FOOT/SQUARE FEET START/STOP		PIPE – TEE DOWN		,
SERVICE SINK STORM	U	PIPE - TEE UP	<u>}</u>	ELBOW DOWN - RECTANGULAR
STANDARD STACK		PIPE - UNION	$\subset \longrightarrow$	ELBOW DOWN - ROUND
STEAM STEAM (SPECIFIC PSIG)	ତ_ <u>¯^{₽/⊺}</u> ଫ	PRESSURE AND TEMPERATURE TEST PLUG	∽⊠	ELBOW UP - RECTANGULAR
SUMMER/WINTER SWITCH		PRESSURE GAUGE AND COCK	\sim	ELBOW UP - ROUND
TRANSFER GRILLE		REDUCER - CONCENTRIC		
TEMPERATURE CONTROL TEMPERING COIL		REDUCER - ECCENTRIC ROOF/OVERFLOW DRAIN		FAN — AXIAL
TEMPERATURE CONTROL PANEL		STEAM TRAP - FLOAT AND THERMOSTATIC	لر ن	FAN – CENTRIFUGAL (ELEVATION)
TRENCH DRAIN TEMPERATURE		– STEAM TRAP – BUCKET	∽	HEATING COIL
TEMPORARY TERMINAL HEATING		STRAINER	ς_ Ρς	INCLINED DROP IN DIRECTION OF AIRFLOW
TOTAL HEAT ABSORBED TERMINAL HEATING RETURN	The second secon	STRAINER WITH VALVE AND BLOW-OFF	(-R)	
TOTAL HEAT REJECTED TERMINAL HEATING SUPPLY	<u> </u>	THERMOMETER	<u>} -=</u> ,	INCLINED RISE IN DIRECTION OF AIRFLOW
TEPID WATER TOTAL STATIC PRESSURE	——————————————————————————————————————	TRAP		INTAKE OR RELIEF HOOD
(AIR) TERMINAL UNIT TURNING VANES		VALVE – ANGLE	, <u>∠</u>	REGISTER – RETURN OR EXHAUST
TEMPERED WATER TYPICAL	—— b ——	VALVE – BALL		REGISTER - RETURN WITH BOOT
UNIT HEATER	K	VALVE – BUTTERFLY VALVE – BALANCE (i.e. BALANCE VALVE TO 0.5 GPM)		REGISTER – TRANSFER GRILLE
UNDERWRITER'S LABORATORY UNLESS OTHERWISE NOTED				REGISTER - TRANSFER GRILLE
URINAL UNIT VENTILATOR	——————————————————————————————————————	VALVE – COMBINATION BALANCE & FLOW MEASURING (i.e. BALANCE VALVE TO 0.5 GPM)	$\langle \bigcirc \rangle$	ROOF EXHAUST FAN
VALVE		VALVE – CHECK VALVE – SPRING CHECK	∽	TRANSITION - CONCENTRIC
VENT VACUUM		VALVE – GAS (MANUAL)	<u>{D</u> {	TRANSITION - ECCENTRIC
VARIABLE AIR VOLUME VACUUM BREAKER	¤	VALVE – GLOBE	, , 	UNIT HEATER – HORIZONTAL THROW
VOLUME DAMPER (MANUALLY ADJUSTABLE) VOLUME	——————————————————————————————————————	VALVE - ISOLATION	[]→	UNIT HEATER - HURIZONTAL THROW
VARIABLE FREQUENCY CONTROLLER	₩ *	VALVE – NEEDLE	\bigcirc	UNIT HEATER – VERTICAL THROW
VENT THROUGH ROOF VENTURI TERMINAL UNIT		VALVE – OS&Y		DUCTWORK SYMBOLS
VERTICAL UNIT VENTILATOR	IVI	VALVE - PLUG	<u>SYMBOL</u>	DESCRIPTION
WASTE WASTE AND VENT		VALVE – PRESSURE REGULATING VALVE – PRESSURE REDUCING	آ جا	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
WASTE ANESTHETIC GAS DISPOSAL WET BULB				DUCT TAKE-OFF - ROUND CONICAL
WATER CLOSET WATER COLUMN		VALVE – PRESSURE RELIEF		SOUTHINE OF NOUND OUNIONE
WATER GAUGE WALL HYDRANT		VALVE – PRESSURE & TEMPERATURE RELIEF	 	ELBOW – RECTANGULAR WITH TURNING VANES
WASHING MACHINE SUPPLY AND DRAIN BOX WATER PRESSURE DROP	© ^{VTR}	VENT THROUGH ROOF		
WEIGHT		WALL HYDRANT	<u>₹₹</u>	ELBOW – RECTANGULAR SHORT RADIUS WITH SPLITTER VAN
TRANSFORMER	DOUBLE LINE P			ELBOW - ROUND
ZONE VALVE BOX	<u>SYMBOL</u>	DESCRIPTION FLANGE	سے ک ے	
	<u>م</u>	FLEX CONNECTION		ELBOW - RECTANGULAR SMOOTH RADIUS
		STRAINER – BASKET		
	╧──────────		Li`x1	FLBOW DOWN - RECTANGULAR

STRAINER – Y TYPE

VALVE - 2 WAY CONTROL

VALVE - 3 WAY CONTROL

VALVE – BUTTERFLY

VALVE – CHECK

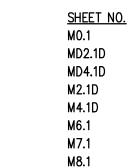
VALVE – OS&Y HORIZONTAL STEM

VALVE – OS&Y VERTICAL STEM

VALVE – DETECTOR CHECK

MECHANICAL DRAWING INDEX

<u>Sheet title</u>



MECHANICAL STANDARDS AND DRAWING INDEX FIRST LEVEL PLUMBING DEMOLITION PLAN - ZONE 'D' FIRST LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'D' FIRST LEVEL PLUMBING PLAN - ZONE 'D' FIRST LEVEL MECHANICAL PLAN - ZONE 'D' MECHANICAL DETAILS MECHANICAL SCHEDULES TEMPERATURE CONTROLS

STANDARD METHODS OF NOTATION

SHORT RADIUS WITH SPLITTER VANES

ELBOW DOWN - ROUND

ELBOW UP - ROUND

HEATING COIL

ELBOW UP - RECTANGULAR

TRANSITION - CONCENTRIC

TRANSITION - ECCENTRIC

 $\mathbf{\nabla}$

╞╴┻╴╡

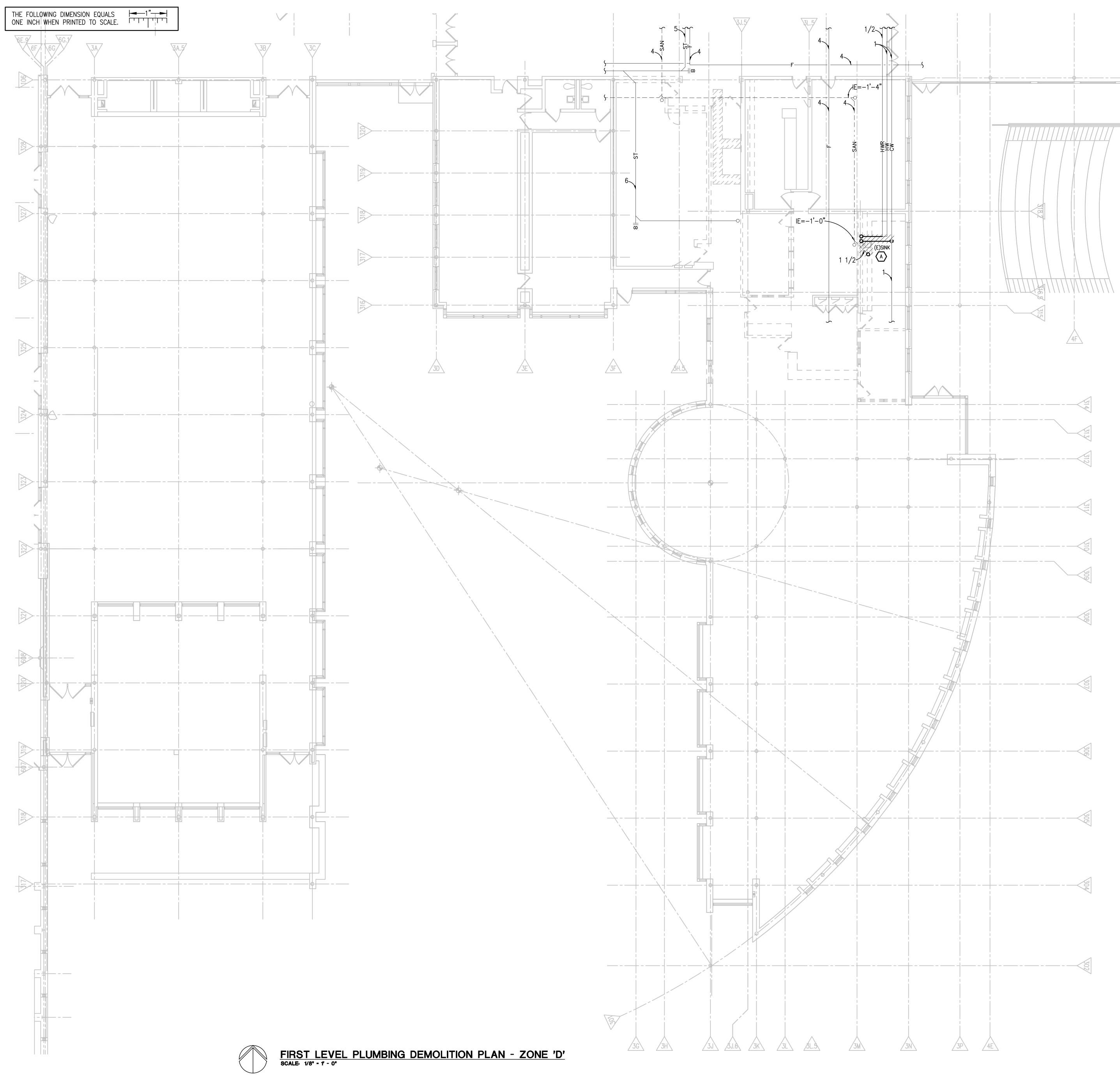
ELBOW DOWN - RECTANGULAR

INCLINED DROP IN DIRECTION OF AIRFLOW INCLINED RISE IN DIRECTION OF AIRFLOW

S-1 10ø 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4
R-1 22x22 640-2	RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR.
□ <u>1</u> <u>101</u> 	AIR TERMINAL UNIT WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
	VENTURI AIR TERMINAL WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
(2) <u>WC-1</u>	PLUMBING FIXTURE UNIT IDENTIFICATION TAG WATER CLOSET TYPE "1" TYPICAL FOR 2
8)	PIPE DIAMETER NOTATION ALL SIZES IN INCHES
8¢ 22x1018x14ø	DUCT SIZE NOTATION ALL SIZES IN INCHES
	— OVAL DUCT — RECTANGULAR DUCT
$\langle 1 \rangle$	CONSTRUCTION KEY NOTE (NUMBER) OR DEMOLITION KEY NOTE (LETTER)
$\left\langle \frac{\text{EF}}{1} \right\rangle$	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
HW-1	PIPING RISER DESIGNATION (i.e. HOT WATER RISER NUMBER 1)
	- POINT OF NEW CONNECTION SYMBOL
	SECTION OR PLAN NUMBER
	- SHEET WHERE SECTION IS DRAWN
	— PLAN NUMBER
1 1 M5.1	
	TION OR ENLARGED PLAN
	- SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED
SHEET_M1.0	MATCH LINE
	HEAVY LINE WEIGHT INDICATES NEW WORK
	LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION
	GRAY LINE INDICATES BACKGROUND INFORMATION
	DASHED LINES INDICATE PIPING ROUTED BELOW SLAB OR GRADE
<u></u>	HATCH MARKS INDICATE EQUIPMENT OR MATERIALS TO BE DISCONNECTED AND REMOVED.
	SYMBOLS AND ABBREVIATIONS NOT APPLY TO THIS PROJECT.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO@ TMP-ARCHITECTURE.COM

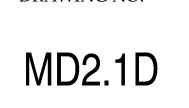


MECHANICAL GENERAL DEMOLITION NOTES:

- 1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES

A. REMOVE EXISTING SINK WITH ASSOCIATED ACCESSORIES AND PIPING COMPLETE. MAINTAIN EXISTING HW/HWR PIPING AS INDICATED. REFER TO NEW WORK PLANS. CAP SAN PIPING AND FLUSH AT FINISHED FLOOR. REMOVE AND CAP VENT PIPING AS NEEDED.



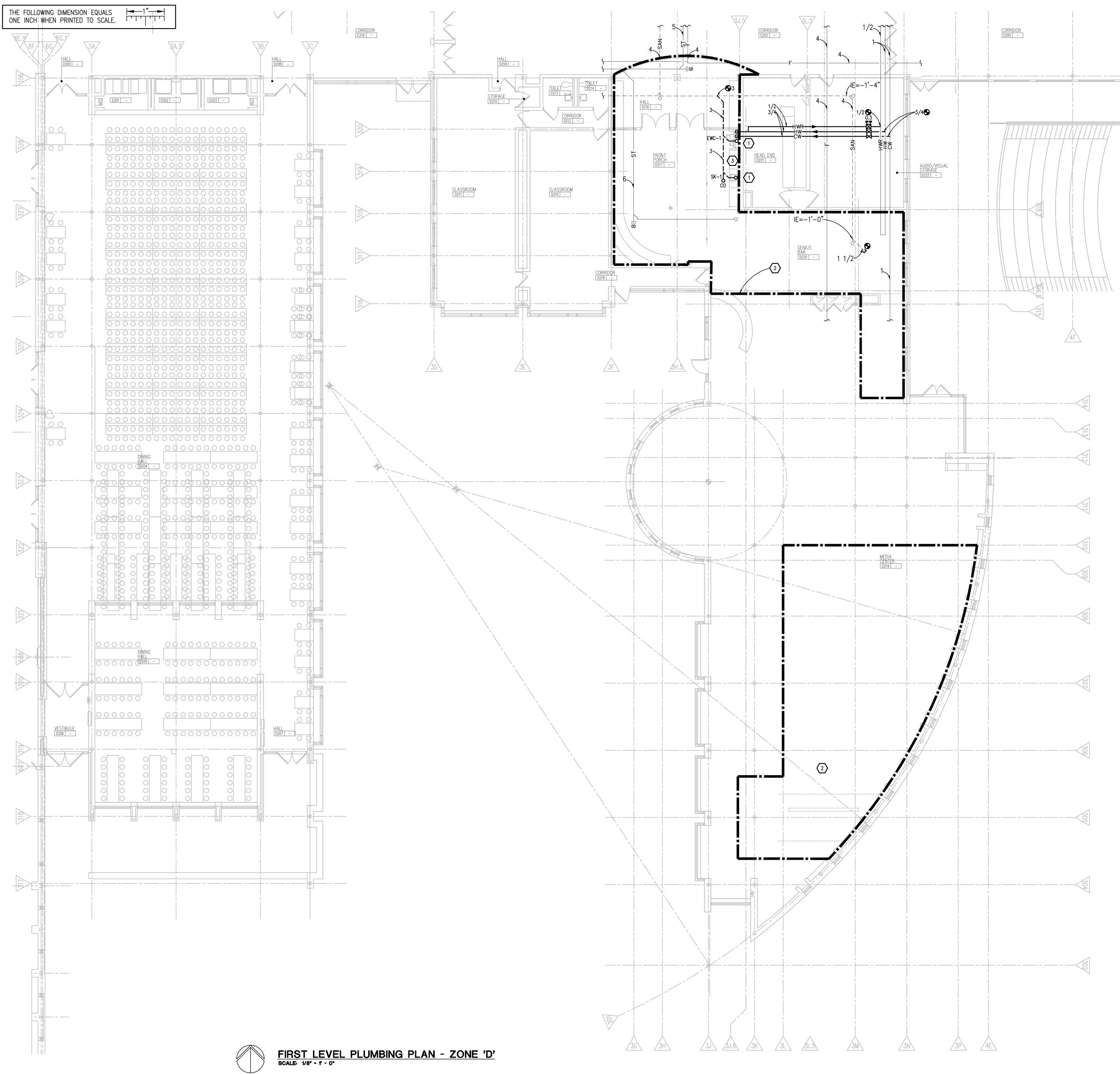
DRAWING NO.

13174H

CONSULTANT									
Consulting Engine5145 Livernois, Suite 100Troy, Michigan 48098-3276Ei: 248-879-5666Fax: 248-879-0007www.PeterBassoAssociates.comBa Project No.: 2013.0408									
PROJECT TITLE Troy High School Media Center Remodeling Bid Package No. 32									
Troy School District Troy, Michigan DRAWING TITLE FIRST LEVEL PLUMBING DEMOLITION PLAN - ZONE 'D'									
ISSUE DATES									
1-15-2021CONSTRUCTION DOCUMENTSDATE:ISSUED FOR:									
DRAWNAKCHECKEDKLHAPPROVEDSVM									
РРОЈЕСТ NO. 12171Ц									

REGISTRATION SEAL

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH•248.338.4561 FX•248.338.0223 EM • INFO® TMP-ARCHITECTURE.COM



FIRE PROTECTION GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. NO SPRINKLER PIPING SHALL BE ROUTED THROUGH ELECTRICAL EQUIPMENT ROOMS, TELECOMMUNICATION EQUIPMENT ROOMS. ELEVATOR EQUIPMENT ROOMS OR SIMILAR ROOMS. ONLY SPRINKLER PIPING SERVING SPRINKLERS HEADS IN THOSE ROOMS SHALL BE ALLOWED.
- 4. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 5. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
- 6. PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD CLASSIFICATION. HYDRAULIC CALCULATIONS SHALL BE BASED ON DENSITY OF 0.10 GPM/SQ FT. OVER THE MOST REMOTE 1500 SQ. FT.
- 7. THERE IS NO RECENT FLOW TEST INFORMATION. CONTRACTOR SHALL MAKE HIS OWN PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.
- 8. FIRE PROTECTION WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 72", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

PLUMBING GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
- 7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- 8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- 9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING. 10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
- 11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 72", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE NEW SK-1/EWC-1 WITH AIR ADMITTANCE DEVICE.
- 2. REWORK EXISTING WET PIPE SPRINKLER SYSTEM WHERE INDICATED PER NFPA 13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- 3. PROVIDE 3/4 CW/HW PIPING UNDER THE COUNTER TO THE NEW SK-1.



DRAWING NO.

13174H

DIG I dehage NO. 02
Troy School District Troy, Michigan
DRAWING TITLE FIRST LEVEL PLUMBING PLAN - ZONE 'D'
ISSUE DATES
1–15–2021 CONSTRUCTION DOCUMENTS
DATE: ISSUED FOR:
DRAWN AK
CHECKED KLH
APPROVED SVM
PROJECT NO.



CONSULTANT



Fax: 248-879-0007

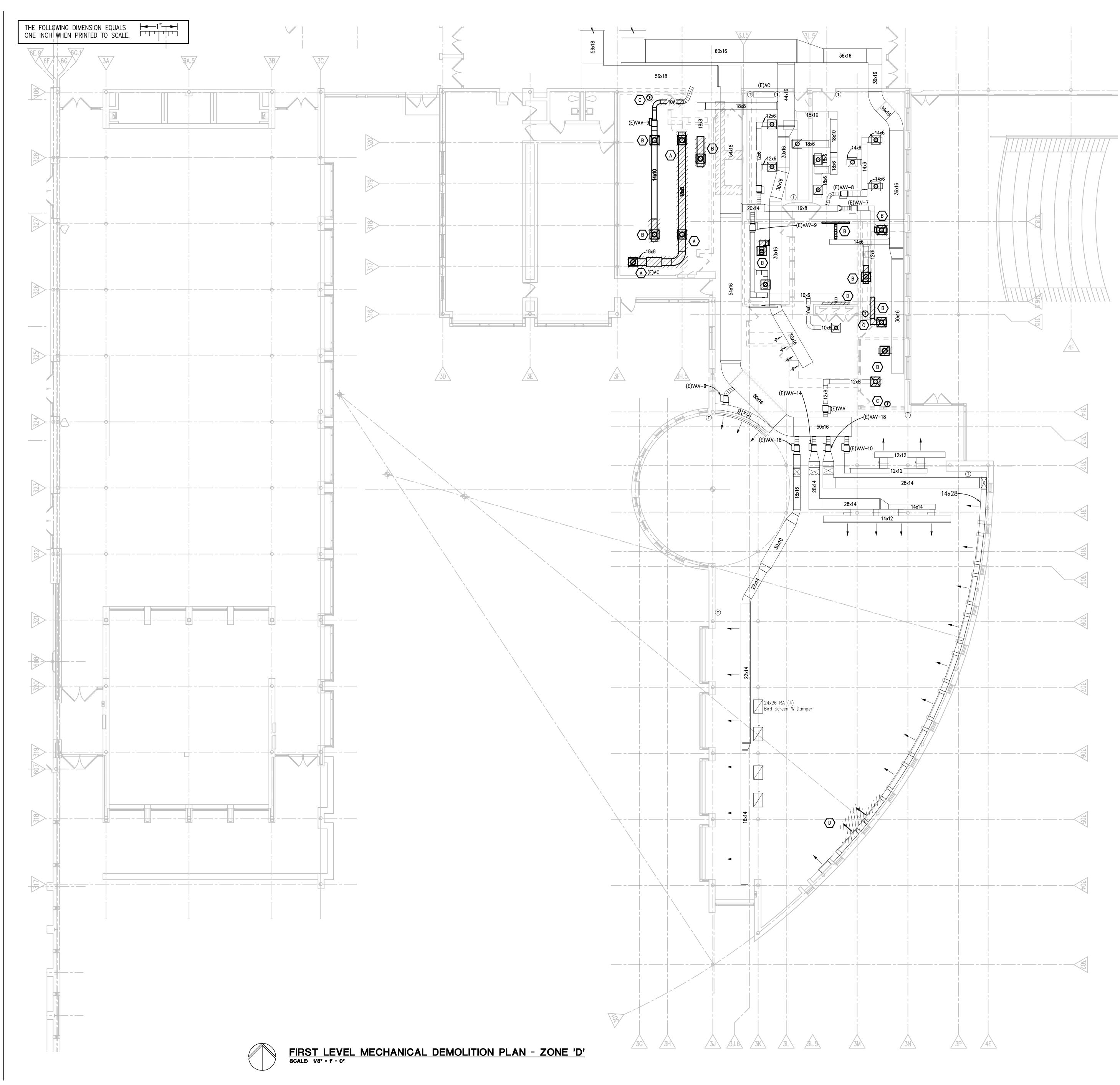
www.PeterBassoAssociates.com PBA Project No.: 2013.0408

REGISTRATION SEAL

BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO@ TMP-ARCHITECTURE.COM

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD



MECHANICAL GENERAL DEMOLITION NOTES:

- 1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK. 4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL

DEMOLITION KEY NOTES:

OPEN ENDED PIPES AND DUCTWORK.

- A. REMOVE EXISTING ABOVE THE CEILING AC UNIT WITH ASSOCIATED DUCTWORK, AIR DEVICES, AND CONTROL COMPLETE. REMOVE ASSOCIATED CONDENSING UNIT ON THE ROOF WITH ASSOCIATED REFRIGERANT PIPING COMPLETE AND CAP ROOF OPENING IN CONCEALED MANNER AND PER DETAIL.
- B. REMOVE EXISTING DUCTWORK WITH ASSOCIATED AIR DEVICE AS INDICATED. PREPARE DUCTWORK FOR NEW CONNECTIONS. REFER TO THE NEW WORK PLANS.
- C. REMOVE AND SALVAGE EXISTING THERMOSTAT OF EXISTING VAV IN ORDER TO BE REUSED. REFER TO THE NEW WORK PLANS.
- D. REMOVE EXISTING AIR DEVICES (SUPPLY AIR LOUVERS) AS INDICATED COMPLETE. REFER TO THE ARCHITECTURAL PLANS FOR COORDINATION. REPAIR AND SEAL EXISTING DUCTWORK AS NEEDED IN CONCEALED MANNER AND PREPARE FOR THE NEW WORK. REFER TO THE NEW WORK PLANS.



DRAWING NO.

13174H

PROJECT NO.

Troy School District Troy, Michigan
DRAWING TITLE FIRST LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'D'
ISSUE DATES
1-15-2021CONSTRUCTION DOCUMENTSDATE:ISSUED FOR:
DRAWN AK
CHECKED KLH
APPROVED SVM

PROJECT TITLE Troy High School Media Center Remodeling Bid Package No. 32

www.PeterBassoAssociates.com PBA Project No.: 2013.0408



CONSULTANT

PH•248.338.4561 FX•248.338.0223 EM • INFO® TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302



SHEET METAL GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT,
- AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. 5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

EXAMPLE 1 CONSTRUCTION KEY NOTES

- 1. REMOVE AN EQUIVALENT LENGTH OF THE EXISTING AIR DEVICES' BLANK-OFFS TO THE ACTIVE AIR DEVICES LENGTH THAT WAS REMOVED AND RE-BALANCE TOTAL AIR FLOW TO 5200 CFM.
- 2. EXISTING RELOCATED THERMOSTAT.



DRAWING NO.

13174H

Remodeling Bid Package No. 32									
Troy School District Troy, Michigan									
DRAWING TITLE FIRST LEVEL MECHANICAL PLAN - ZONE 'D'									
ISSUE DATES									
1–15–2021 CONSTRUCTION DOCUMENTS									
DATE: ISSUED FOR:									
DRAWN AK									
CHECKED KLH APPROVED SVM									
PROJECT NO.									

CONSULTANT

PROJECT TITLE



Fax: 248-879-0007

www.PeterBassoAssociates.com

PBA Project No.: 2013.0408

Troy High School Media Center

REGISTRATION SEAL

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH•248.338.4561 FX•248.338.0223 EM • INFO@ TMP-ARCHITECTURE.COM

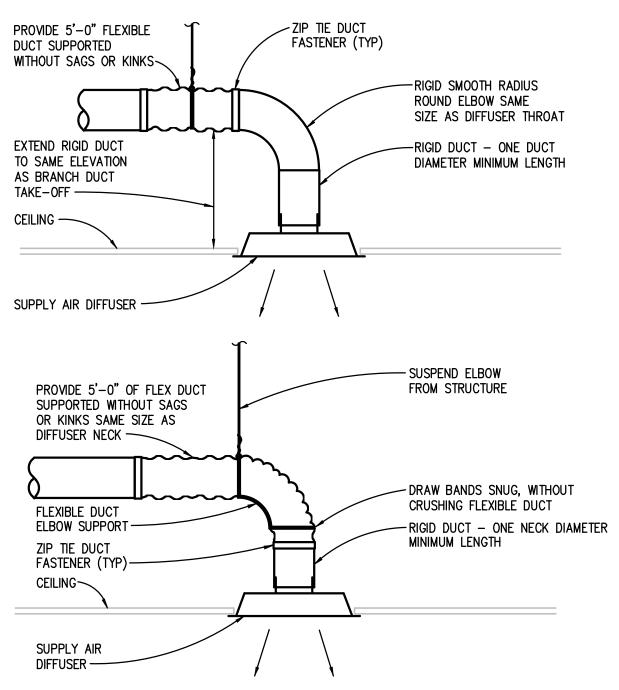
BRANCH CONNECTION OFF TOP APPLIES TO THE FOLLOWING SYSTEMS: DOMESTIC WATER STEAM & CONDENSATE LABORATORY GASES LABORATORY VACUUM

COMPRESSED AIR

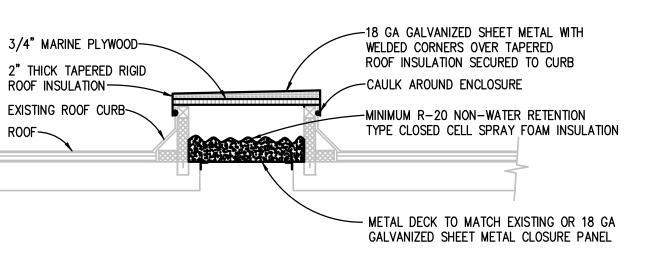
NATURAL GAS

BRANCH CONNECTION OFF BOTTOM APPLIES TO THE FOLLOWING SYSTEMS: HOT WATER HEATING CHILLED WATER CONDENSER WATER ENERGY RECOVERY PROCESS COOLING WATER NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.

TYPICAL BRANCH TAKE-OFF **CONNECTION PIPING DETAIL** NO SCALE

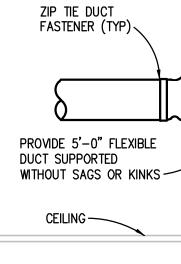


ROUND NECK SUPPLY AIR DIFFUSER DETAIL NO SCALE



NOTE: 1. FASTEN TOP CLOSURE, WITH SCREWS THROUGH SIDE. 2. NOT TO BE USED FOR CURBS GREATER THAN 24" IN ANY DIMENSION

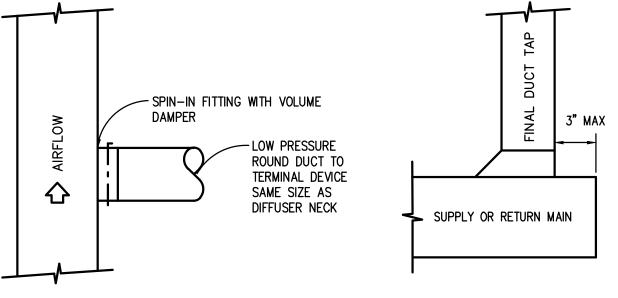
SMALL ROOF CURB CAP DETAIL NO SCALE

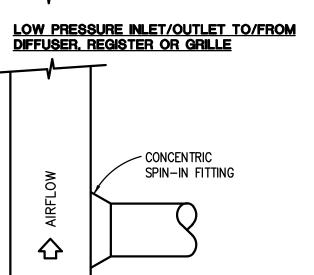


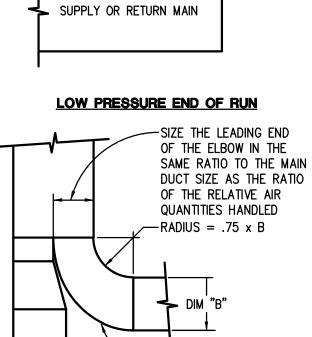
PROVIDE 5'-0" OF FLEX DUCT SUPPORTED WITHOUT SAGS OR KINKS SAME SIZE AS DIFFUSER NECK — FLEXIBLE DUCT ELBOW SUPPORT-ZIP TIE DUCT FASTENER (TYP)

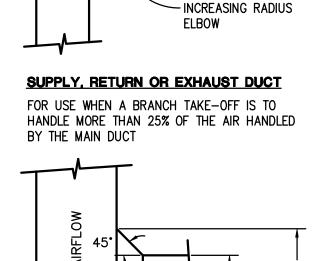
RETURN OR EXHAUST AIR DEVICE

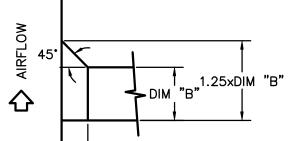
NU SUALE



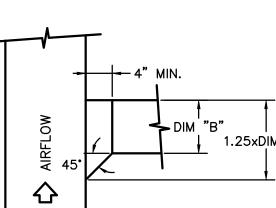




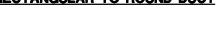


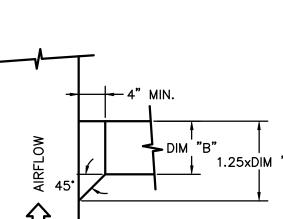




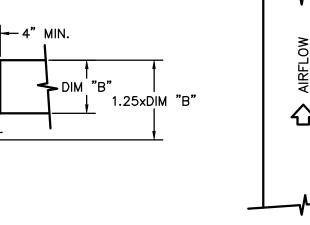


SUPPLY DUCT

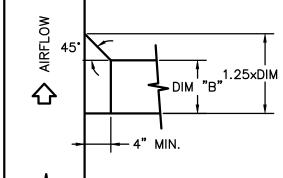




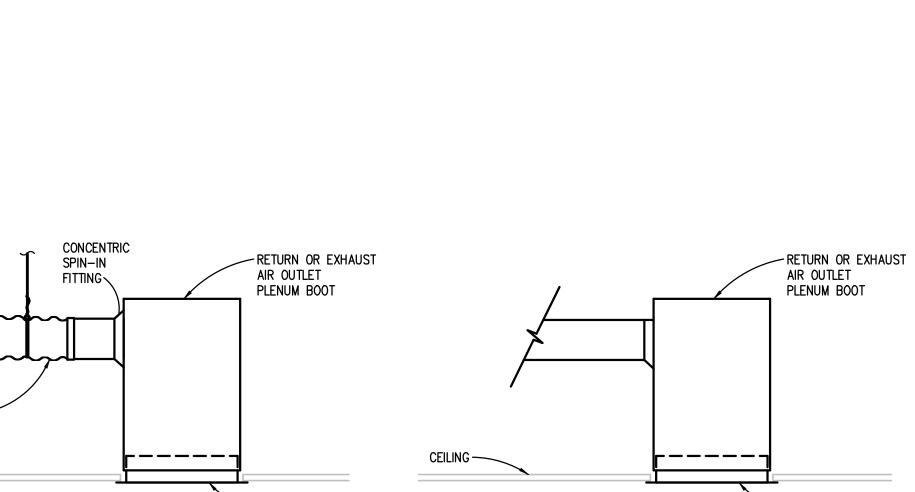


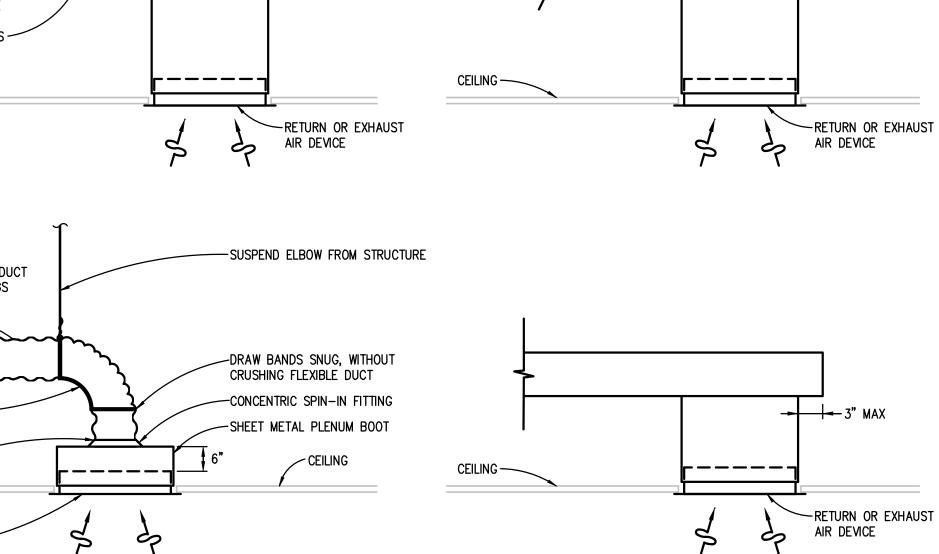


RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS









RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL

NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.



									Pl	LUN	٨BI	NG	ì P	IPI	NG	&	VA	LV	Έ		PLI	CA	ΤΙΟ)N	SC	HE	DL	JLE											
	MATERIAL											PRESSURE CONNECTIONS											GRAVITY DWV CONNECTIONS						ISOLA										
PIPE SIZE (INCHES) ABOVEGROUND DOME	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (STD.)	G (SCHED. 40)	A-C STEEL (SCHED. 10)	LEX T ABL I	e dife	PE SHEATHED CARBON STEEL PIPE	CSST CSST	NO-HUB CISP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	Soldered	Brazed	MELDED	THREADED	FLANGED	CLOOVED	INSERT & CRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON-JOINT	SOLVENT WELDED	SOLDERED	FUSION	CISP HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE	KEYED NOTES
UP TO 4		x															x	x			x	x			x	x								x		x			A
ABOVEGROUND SANIT	ARY	WAS	E & '	VENT	- MIN	I. WO	RKING) PRE	SS.: 1(0-FO(ot he	AD C	FW/	ATER																									
1-1/2 TO 15												Х																				Х							
UNDERGROUND SANIT	ARY	WAST	E & \	/ENT	- MIN	. woi	RKING	PRE	SS.: 10)-FOC	T HE	AD O	F WA	TER																					-				
3 TO 12												Х																					Х						
GENERAL NOTES	-		-	•	-	-	-	-							-				-	-	-			-	•	-	-	•		-			-			•	•	-	

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY

SELECT FROM THOSE INDICATED SELECTIONS. 2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.

a. NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY. b. NPS 2–1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS. 4. PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED

PIPING SYSTEM. 5. GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

<u>KEYED NOTES</u>

A. GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS ONLY FOR THIS PIPING SYSTEM. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.

B. JOINTS ARE NOT PERMITTED ON UNDERGROUND WATER PIPING. C. USE CAST IRON DRAINAGE PATTERN (DURHAM) FITTINGS.

D. INSTALL IN CONTAINMENT JACKET, REFER TO SPECIFICATIONS.

E. VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS. F. NO JOINTS ALLOWED UNDERGROUND.

ABOVEGROUND PLUMBI APPLIC								OR	Y	INS	SUL	.AT	10	N
	IN	ISULAT	10N M/ (ATERIA INCHES		IICKNE	SS	FIEL	.D—APf					
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYSOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR)	PVDC (OUTDOOR)	KEYED NOTES
INDOOR PIPE SYSTEM AND SIZE (INCHES)	_													
DOMESTIC COLD WATER	1	1						х		х				A
DOMESTIC HOT WATER SUPPLY & RETURN 140 DEG F AND LESS:														
NPS 1-1/4 AND SMALLER	1	1						х		х				A
STORM WATER AND OVERFLOW WHERE HEAT TRACING IS INSTALLED		2						х		х	х			В

UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:

FIRE SUPPRESSION PIPING UNDERGROUND PIPING

LABORATORY GAS AND VACUUM PIPING MEDICAL GAS AND VACUUM PIPING

FUEL GAS PIPING FUEL OIL PIPING

<u>GENERAL NOTES</u>

1. 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT

FROM THOSE INDICATED SELECTIONS. 2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

<u>KEYED NOTES</u>

A. PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE, WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR. B. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.

	GRILLE, REGISTER, AND DIFFUSER SCHEDULE									
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	REMARKS	
S–1	DIFFUSER	24x24	SEE PLANS	LAY-IN		STEEL	SELECTED BY ARCHITECT	SPD		
R–1	GRILLE	NECK SIZE + 1-3/4"	SEE PLANS	SEE PLANS		STEEL	SELECTED BY ARCHITECT	530		
R-2	GRILLE	24x24	SEE PLANS	LAY-IN		STEEL	SELECTED BY ARCHITECT	PDDR		

NOTE: 1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED

	FAN SCHEDULE															
UNIT IDENTIFICATION	SYSTEM SERVED	DIAMETER (FT)	# OF AIRFOILS	WEIGHT (LBS)	sound Level	MOTOR TYPE	RPM	MOTOR AMPS	CONTROL			ELECTRICAL			MODEL NUMBER	REMARKS
					(DBA)					VOLTS	PHASE	MCA	MOP	OPTIONS/ ACCESSORIES		
CF-1	MEDIA CENTER	10	8	81	<35	DIRECT DRIVE	107	10	VARIABLE SPEED DRIVE	120	1	10	20		ESSENCE 10FT	
CF-2	MEDIA CENTER	10	8	81	<35	DIRECT DRIVE	107	10	Variable Speed Drive	120	1	10	20		ESSENCE 10FT	

NOTE: 1. REFER TO SCHEDULES GENERAL NOTES. 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE BIG ASS FANS UNLESS OTHERWISE NOTED.

3. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.

4. PROVIDE BAFCON WALL MOUNTED CONTROL PANEL. 5. PROVIDE UNIT WITH INTEGRAL LED LIGHTING WITH 5,000 LUMENS OUTPUT, 4000K, 80 CRI, 0-10V TO 10% DIMMING, AND"BIG FAN PACKAGE".

PLUN	IBING	CONNE		I SCHE	EDULE
UNIT IDENTIFICATION	CW INCHES	HW INCHES	SAN INCHES	VENT INCHES	KEYED NOTES
SK-1	3/4	3/4	1 1/2	1 1/2	
EWC-1	1/2	_	1 1/2	1 1/2	

<u>GENERAL NOTES:</u> 1. INDIVIDUAL WATER LINE BRANCHES, WASTE LINES, VENTS, AND TRAPS FOR CONNECTION TO INDIVIDUAL FIXTURES, FIXTURE FITTINGS, AND SPECIALTIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

KEYED NOTES: 1. PROVIDE MIXING VALVE.

DUC	ΤS	SYS	STE	Μ	AP	PLI			DN	SC	CHE	EDI	JLE					
						DI	JCT M	ATERIA	L									
AIR SYSTEMS	G90 GALV. SHEET METAL	DOUBLE-WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	G90 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	Keyed Notes
SUPPLY AIR WITHOUT TERMINAL UNITS	x														+2	A	5	
SUPPLY AIR UPSTREAM OF TERMINAL UNITS	x														+6	A	5	
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	X														+2	A	5	
RETURN AIR WITHOUT TERMINAL UNITS	Х														-2	Α	5	
RETURN AIR UPSTREAM OF TERMINAL UNITS	Х														-2	Α	5	
RETURN AIR DOWNSTREAM OF TERMINAL UNITS	Х														-6	Α	5	

GENERAL NUIES

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS. 2. 4 X 1 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES.

3. 1 X 4 (4 X 1 REVERSE COATED) PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR

SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES. 4. 4 X 4 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

<u>KEYED NOTES</u>

A. SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED. B. DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS. C. ALL WELDED CONSTRUCTION.

DUCT SYSTEM INSULATI	ON APP	LIC	AT	101	1 8	SCH	IEC	DUL	.E	
	IN	INSULATION MATERIAL & THICKNESS (INCHES)					eld Plied			
						KET			CKET TERIAL	
	FIBERGLASS BLANKET 0.75 LB/CU FT	FIBERGLASS BLANKET 1.0 LB/CU FT	FIBERGLASS BOARD 2.25 LB/CU FT	FIBERGLASS BOARD 6.0 LB/CU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	2-Hour Fire Rated Blanket	ALUMINUM	Self-Adhesive (for outdoor Applications)	keyed notes
DUCT SYSTEMS LOCATED INDOORS										
SUPPLY AIR, EXCEPT AS NOTED BELOW		1.5								A, E

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION: FIBROUS-GLASS DUCTS DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013 METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013

FABRIC SUPPLY DUCTS

FACTORY-INSULATED FLEXIBLE DUCTS FACTORY-INSULATED PLENUMS AND CASINGS

FLEXIBLE CONNECTORS VIBRATION-CONTROL DEVICES FACTORY-INSULATED ACCESS PANELS AND DOORS

<u>GENERAL NOTES</u>

1. 'X' OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS. 2. REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT. 3. REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

<u>KEYED NOTES</u>

A. INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
B. NUMBER OF LAYERS AND TOTAL INSULATION THICKNESS AS RECOMMENDED BY SELECTED MANUE
C. DOES NOT APPLY TO PREFABRICATED, ZERO-CLEARANCE GREASE DUCT.
D. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC TH
E. EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE SERVED BY THAT SYSTEM IS NO

NUFACTURER. HERMAL DUCT INSULATION. NOT REQUIRED TO BE INSULATED.

SCHEDULES GENERAL NOTES

TYPICAL FOR ALL SCHEDULE SHEETS:

- 1. REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
- 2. PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
- A NON-FUSED DISCONNECT SWITCH B – UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
- C SERVICE RECEPTACLE D - FUSED DISCONNECT SWITCH
- E COMBINATION STARTER F – UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
- 3. FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- 4. IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT. VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- 5. WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- 6. WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
- WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- 8. WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN HE UNIT DISCONNECT IS IN THE OFF POSITION.
- 9. SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.



DRAWING NO.

13174H

PROJECT NO.

ISSUE DA	TES
1-15-2021	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	AK
CHECKED	KLH
APPROVED	SVM



PROJECT TITLE Troy High School Media Center Remodeling Bid Package No. 32



CONSULTANT



PH • 248.338.4561 FX • 248.338.0223



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 EM • INFO@ TMP-ARCHITECTURE.COM

REGISTRATION SEAL

TEMPEDATURE CONTROL - SVMPOLS LIST

TEMPER	ATURE CONTROL - SYMBOLS	LIST	
SCHEMATIC SYN	IBOLS	SCHEMATIC SYN	ABOLS (CONT.)
<u>SYMBOL</u>	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION
AFC	AIR FLOW CONTROLLER		SMOKE DETECTOR - DUCT MOUNTED
	AQUASTAT, STRAP ON BULB	SD	SMOKE DETECTOR - SPACE MOUNTED
C02	CARBON DIOXIDE SENSOR - WALL MOUNTED	s/s	START/STOP RELAY
C02	CARBON DIOXIDE SENSOR - DUCT MOUNTED	SPT	STATIC PRESSURE TRANSMITTER
со	CARBON MONOXIDE SENSOR - WALL MOUNTED	SP	STATIC PRESSURE SENSOR OR PROBE
CO	CARBON MONOXIDE SENSOR - DUCT MOUNTED	SW	SWITCH
CS	CURRENT SWITCH		TEMPERATURE SENSOR - RIGID ELEMENT IN WELL
СТ	CURRENT TRANSMITTER	T.	TEMPERATURE SENSOR - STRAP ON BULB
$\rightarrow \rightarrow $	DAMPER – OPPOSED BLADE	Ţ	TEMPERATURE SENSOR - DUCT MOUNTED AVG ELEMENT
-////	DAMPER – PARALLEL BLADE	T	TEMPERATURE SENSOR - DUCT MOUNTED RIGID ELEMENT
м	DAMPER MOTOR	T	THERMOSTAT OR TEMPERATURE SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER		(AS DEFINED ON TO DRAWINGS)
DPS	DIFFERENTIAL PRESSURE SWITCH	(T) _N	THERMOSTAT FOR NIGHT SETBACK
EP	ELECTRIC-PNEUMATIC RELAY	XF	TRANSFORMER
EPT	ELECTRIC TO PNEUMATIC TRANSDUCER	弘	VALVE - 2 WAY CONTROL VALVE
СМ	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE	及	VALVE – 3 WAY CONTROL VALVE
IM	FIRE ALARM SYSTEM, ADDRESSABLE INTERFACE MODULE	VSD	VARIABLE SPEED DRIVE
FMS	FLOW MEASURING STATION		VELOCITY SENSOR
FM	FLOW METER	VS	
	FLOW SWITCH	VIB	VIBRATION SWITCH
	FREEZESTAT	V	VOLTAGE SENSOR
 (F/)			
(P/)	GAUGE – PRESSURE	WIRING SYMBOL SYMBOL	<u>DESCRIPTION</u>
() ()	GAUGE – TEMPERATURE	Ъ	AUDIBLE DEVICE (AS DEFINED ON TC DRAWINGS)
	GUARD FOR STAT OR SENSOR	-(M/S)	COIL - MOTOR STARTER CONTACTOR
	HUMIDIFIER		COIL – RELAY
L (H)	HUMIDISTAT OR HUMIDITY SENSOR	-(TDR)	COIL - TIME DELAY RELAY
	(AS DEFINED ON TC DRAWINGS) HUMIDITY SENSOR, DUCT MOUNTED	-(VSD)	COIL - VARIABLE SPEED DRIVE CONTACTOR
	LEVEL SWITCH OR TRANSMITTER		COIL - EP OR SOLENOID VALVE
LS		┥┝╸	CONTACT – INSTANT OPERATING, NO
	LINE - ELECTRIC	o No	CONTACT – INSTANT OPERATING, NC
	LINE - PNEUMATIC		CONTACT – TIMED AFTER COIL IS ENERGIZED, NOTC
M	MAIN CONTROL AIR SUPPLY	~ ~	CONTACT – TIMED AFTER COIL IS ENERGIZED, NCTO
		° ↓ ↓ ↓	CONTACT – TIMED AFTER COIL IS DE-ENERGIZED, NOTO
	MOTOR STARTER	o ↓ o	CONTACT – TIMED AFTER COIL IS DE-ENERGIZED, NCTC
os	OCCUPANCY SENSOR	¥ م	
R	PILOT LIGHT OR BEACON R – RED LENS	<u> </u>	GROUND
	A — AMBER LENS B — BLUE LENS	6	MOTOR, SINGLE PHASE
<u> </u>	G – GREEN LENS	, ~~	PILOT LIGHT OR BEACON
PT	PRESSURE TRANSMITTER	R	R — RED LENS A — AMBER LENS
R	RELAY, ELECTRIC		B — BLUE LENS G — GREEN LENS
⊿ N	SELECTOR SWITCH, (N=NUMBER OF POSITIONS)		
\frown			PILOT LIGHT, WITH PUSH-TO-TEST
	SIGNAL – DDC/BAS, ANALOG INPUT		
(A0)	SIGNAL – DDC/BAS, ANALOG OUTPUT	 o o	PUSH BUTTON - MOMENTARY CONTACT, NO
	SIGNAL – DDC/BAS, DIGITAL INPUT	$\circ \mid \circ$	PUSH BUTTON - MOMENTARY CONTACT, NC
DO	SIGNAL – DDC/BAS, DIGITAL OUTPUT		
٨		<u>o l o</u> o o	PUSH BUTTON - MOMENTARY CONTACT, NO & NC
	SIGNAL – PACKAGED EQUIPMENT, ANALOG INPUT	<u> </u>	
	SIGNAL – PACKAGED EQUIPMENT, ANALOG OUTPUT	0 0	PUSH BUTTON - MOMENTARY, NO (MUSHROOM HEAD)
Α	SIGNAL – PACKAGED EQUIPMENT, DIGITAL INPUT	$\overline{\circ}$	PUSH BUTTON - MOMENTARY, NC (MUSHROOM HEAD)
DO	SIGNAL – PACKAGED EQUIPMENT, DIGITAL OUTPUT		

NOTE: REFER TO MECHANICAL STANDARDS ON DRAWING M0.1 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

<u>AB</u>

WIRING SYMBOL	<u>S (CONT.)</u>
SYMBOL	DESCRIPTION
1 2	
	SWITCH - 2 POSITION SELECTOR
H O A	SWITCH – 3 POSITION SELECTOR HAND/OFF/AUTO
°	SWITCH – FLOW (AIR, WATER, ETC.), NO
oto	SWITCH – FLOW (AIR, WATER, ETC.), NC
J° 1	SWITCH — LIMIT, NO
e d a	SWITCH - LIMIT, NO, HELD CLOSED
000	SWITCH - LIMIT, NC
000	SWITCH - LIMIT, NC, HELD OPEN
°°	SWITCH - LIQUID LEVEL, NO
Î	SWITCH - LIQUID LEVEL, NC
\sim	SWITCH – MANUAL SPST, NO
\sim \sim	SWITCH – MANUAL DPDT, NO
0-0	SWITCH - MANUAL SPST, NC
o <u>⊥</u> o	SWITCH - MANUAL DPDT, NC
0	SWITCH – MANUAL SPDT
	SWITCH – MANUAL DPDT
°°	SWITCH – PRESSURE & VACUUM, NO
Ĩ	SWITCH – PRESSURE & VACUUM, NC
<u>مر</u>	SWITCH – TEMPERATURE ACTUATED, NO
	SWITCH – TEMPERATURE ACTUATED, NC
-x-	THERMAL OVERLOAD, SINGLE PHASE
o∟'s +\+\+ ₩	THERMAL OVERLOAD CONTACTS – 3 PHASE TRANSFORMER
0	WIRE TERMINATION AT DEVICE
· ·	
-+	WIRE TO WIRE TERMINATION
	WIRING NOT CONNECTED

ABBREVIATION DESCRIPTION

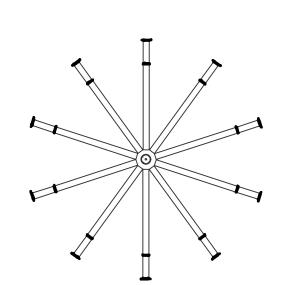
WIRING TERMS

SPST	SINGLE POLE SINGLE THROW
SPDT	SINGLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
ΝΟΤΟ	NORMALLY OPEN TIMED OPEN
NOTC	NORMALLY OPEN TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NCTC	NORMALLY CLOSED TIMED CLOSED

NOTE: SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

ABBRE	VIATION LIST		
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	ERCP	ELECTRIC RADIANT CEILING PANEL
ACC	AIR COOLED CONDENSER	ERU	ENERGY RECOVERY UNIT
ACCU	AIR COOLED CONDENSING UNIT	EUH	ELECTRIC UNIT HEATER
AD	ACCESS DOOR	EWB	ENTERING WET BULB
AFF	ABOVE FINISHED FLOOR	EWT	ENTERING WATER TEMPERATURE
AHU	AIR HANDLING UNIT	EXH	EXHAUST
ALT	ALTERNATE	LVU	EXTRUST
AMP	AMPERE	۴	DEGREES FAHRENHEIT
APD	AIR PRESSURE DROP	г F&B	
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION,	FAS	FACE AND BYPASS DAMPER
/ IOI III VILE	AND AIR CONDITIONING ENGINEERS	FCU	FIRE ALARM SYSTEM FAN COIL UNIT
AUX	AUXILIARY	FLR	FLOOR
		FM	FLOW MEASURING DEVICE
BAS	BUILDING AUTOMATION SYSTEM	FT	FEET
С	COMMON	FTR	FINNED TUBE RADIATION
ČFM	CUBIC FEET PER MINUTE	FIR	FINNED TODE RADIATION
CH	CHILLER		
CHWP	CHILLED WATER PUMP		
CHWR	CHILLED WATER RETURN		
CHWS	CHILLED WATER SUPPLY	GPM	GALLONS PER MINUTE
CLG	COOLING	GRH	GRAVITY RELIEF HOOD
		GKH	GRAVITI RELIEF HOOD
CLP	COMPUTER LOOP PUMP	HOA	HAND/OFF/AUTO
CLR	COMPUTER LOOP RETURN	HP	HEAT PUMP
CLS	COMPUTER LOOP SUPPLY	HP	HORSEPOWER
C02	CARBON DIOXIDE	HPLP	HEAT PUMP LOOP PUMP
COND	CONDENSATE	HPLR	HEAT PUMP LOOP RETURN
CONT CONTR	CONTINUATION OR CONTINUED CONTRACTOR	HPLS	HEAT PUMP LOOP SUPPLY
CONV	CONVECTOR	HR	HOUR
COS	CENTRAL OPERATOR STATION	HTG	HEATING
CP	CIRCULATING PUMP	HVAC	HEATING, VENTILATING, AIR CONDITIONING
CF	COOLING TOWER	HWH	HOT WATER HEATING
CUH	COOLING TOWER CABINET UNIT HEATER	HWHR	HOT WATER HEATING RETURN
CW	DOMESTIC COLD WATER	HWHS	HOT WATER HEATING SUPPLY
CWP	CONDENSER WATER PUMP	HW	DOMESTIC HOT WATER
CWR	CONDENSER WATER RETURN	HWR	DOMESTIC HOT WATER RETURN
CWS	CONDENSER WATER SUPPLY	HX	HEAT EXCHANGER
0115	CONDENSER WATER SOLLET	HV	HEATING VENTILATING
DA	DISCHARGE AIR	IAQ	INDOOR AIR QUALITY
DAT	DISCHARGE AIR TEMPERATURE	IN	INCHES
DB	DRY BULB TEMPERATURE	JC	JANITOR'S CLOSET
DDC	DIRECT DIGITAL CONTROL	кwн	KILOWATT-HOUR
DEG	DEGREES	KW	KILOWATT
DMPR	DAMPER		
D/N	DAY/NIGHT	LBS/HR	POUNDS PER HOUR
DN	DOWN	MA	MIXED AIR
DPR	DAMPER	MAT	MIXED AIR TEMPERATURE
DWG	DRAWING	MAU	MAKE-UP AIR UNIT
DWH	DOMESTIC WATER HEATER	MAX	MAXIMUM
DX	DIRECT EXPANSION	MBH	THOUSAND BTUS PER HOUR
	EV/OTINO	MCC	MOTOR CONTROL CENTER
(E)	EXISTING	MECH	MECHANICAL
EA	EACH	MEZZ	MEZZANINE
EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE	MFR	MANUFACTURER
ECUH	ELECTRIC CABINET UNIT HEATER	MIN	
EDB	ENTERING DRY BULB	MISC	MISCELLANEOUS
EF	EXHAUST FAN	MMBH M /s	MILLION BTUS PER HOUR
EFF	EFFICIENCY	M/S	MOTOR STARTER
EHC	ELECTRIC HEATING COIL	MR MTD	MANUAL RESET MOUNTED
ELEC	ELECTRICAL	MTR	MOTOR
		WE HX	MOTON

ANY USE OF EXPOSED WIRING WHETHER IN RACEWAY OR WIREMOLD IS PROHIBITED WITHOUT THE CONSENT OF THE ARCHITECT.



CF CIRCULATION FAN CONTROL

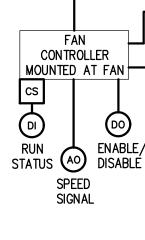
TYPICAL NOTES:

- 1. REFER TO MECHANICAL FLOOR PLANS FOR LOCATION.
- 2. FAN CONTROLLER PROVIDED BY MANUFACTURER.
- 3. TC CONTRACTOR SHALL PROVIDE DDC CONTROL DEVICES AND WIRING.
- 4. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM COMPONENTS AND WRING FROM FIRE ALARM PANEL TO CONTROL MODULE. TC CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL MODULE TO MOTOR STARTER CONTROL CIRCUIT.

SEQUENCE OF OPERATION

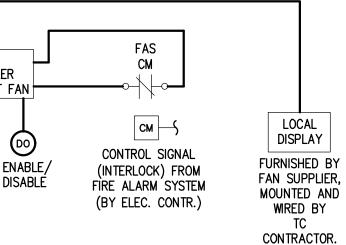
NOTE: ALL SETPOINTS, RESET SETPOINTS, TIME DELAYS, AND DEADBANDS DESCRIBED IN THE SEQUENCE OF OPERATION SHALL BE ADJUSTABLE BY BUILDING AUTOMATION SYSTEM OPERATORS. SEQUENCE OF OPERATION:

- 1. CIRCULATION FAN SHALL BE ENABLED/DISABLED FOR RUNNING BY DDC FROM BAS TIME OF DAY SCHEDULE FOR THE ASSOCIATED AIR HANDLING UNIT. 2. LOCAL CONTROLLER PROVIDED BY MANUFACTURER ALLOWS FOR USER SETTINGS AND
- IS WIRED BY ELECTRICAL CONTRACTOR. 3. DDC SHALL MONITOR EACH FAN'S RUNNING STATUS WITH A CURRENT SWITCH ON THE FAN MOTOR LEADS. CURRENT SENSOR PROVIDES STATUS, ALARM, AND RUN TIME
- HOURS FOR TOTALIZATION. 4. IN OCCUPIED MODE, DDC SHALL MONITOR THE ASSOCIATED AHU'S CONTROL STATUS AND SHALL COMMAND CIRCULATION FAN'S SPEED TO 40% SETPOINT WHEN AHU IN HEATING MODE AND 60% SETPOINT WHEN AHU IS IN COOLING MODE. SPEED CHANGES
- SHALL OCCUR OVER A TWO MINUTE PERIOD. 5. IN UNOCCUPIED MODE, DDC SHALL COMMAND FAN'S SPEED TO 15% TO DESTRATIFY THE SPACE.
- 6. UPON FIRE SUPPRESSION SYSTEM (SPRINKLER) ACTIVATION, A SIGNAL FROM THE FIRE ALARM SYSTEM SHALL LOCK-OUT CIRCULATION FAN FROM OPERATING.



GENERAL NOTES

- 1. THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TC DRAWINGS.
- 2. "PROVIDE" IS DEFINED AS "FURNISH AND INSTALL".
- 3. TC CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- 4. FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
- 5. ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS'S WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
- 6. TC CONTRACTOR SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM. 7. ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WIRING SHALL
- BE LABELED PER SPECIFICATIONS.
- 8. ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS. 9. VARIABLE FREQUENCY CONTROLLERS, FAN AND PUMP MOTOR STARTERS, STARTER
- WRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES. 10. DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND WIRED TO THE FIRE
- ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL SHALL PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR REQUIRED SAFETIES TO MOTOR STARTERS OR VSD'S AS INDICATED. CONTROL MODULES SHALL BE LOCATED NEAR RESPECTIVE MOTOR STARTERS OR VSD'S. TC CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM CONTROL MODULES TO MOTOR STARTERS OR VSD'S.
- 11. ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY TC CONTRACTOR UNLESS OTHERWISE NOTED. TC CONTRACTOR SHALL COORDINATE WITH VSD AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
- 12. ALL DDC AND CONTROL INTERLOCK WIRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
- 13. ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WIRING AND THE OTHER FOR 24V WIRING.
- 14. TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
- 15. TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS. 16. THERMOSTATS AND SPACE TEMPERATURE SENSORS SHALL BE MOUNTED 4'-0" ABOVE
- FINISHED FLOOR UNLESS NOTED OTHERWISE. PROVIDE GUARDS FOR SPACE TEMP SENSORS LOCATED IN PUBLIC AREAS. 17. TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC.
- AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. 18. REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR.
- 19. CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
- 20. FREEZESTATS SHALL BE MOUNTED ON UPSTREAM FACE OF COOLING COILS. FREEZESTAT QUANTITY SHALL BE ONE PER 20 SQ. FT OF CROSS SECTIONAL AREA.
- 21. CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
- 22. ALL CONTROL VALVES, CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
- 23. ALL CONTROL VALVES AND DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. ALL PIPE PENETRATIONS AND BASIC FITTINGS REQUIRED FOR SENSOR INSTALLATIONS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- 24. DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR UNLESS FACTORY INSTALLED. COORDINATE FACTORY INSTALLED EQUIPMENT WITH THE CONTRACTOR/MANUFACTURER.
- 25. ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY TC CONTRACTOR.
- 26. TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.



ABBREVIATION DESCRIPTION

NC

NIC

NO

NFPA

NOTC

NOTO

PACU

PD

PHR

PNL

PHS

PPM

PRV PSI

RA

RAT

RCP

RELA

REQD

RHWH

RHWHR

RHWHS

RTU

S/S

STE

STM

S/W

TCF

VAV

XFMR

TEMP

RF

RH

NSB

NCTC NCTO NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NIGHT SETBACK

OUTSIDE AIR

PANF

RETURN

RETURN AIR

RELIEF AIR

REQUIRED

RETURN FAN

RHWH RETURN

RHWH SUPPLY

SUPPLY AIR

SUPPLY FAN STATIC PRESSURE

START/STOP

SINGLE-ZONE

TEMPERATURE

ŤYPÍČAL

UNIT HEATER

UNIT VENTILATOR VARIABLE AIR VOLUME

WATER COLUMN

TRANSFORMER

VARIABLE SPEED DRIVE

VERTICAL UNIT VENTILATOR

SUMMER/WINTER

TEMPERATURE CONTROL

TEMPERATURE CONTROL PANEL

TERMINAL HEATING RETURN

TERMINAL HEATING SUPPLY

UNDERWRITER'S LABORATORY

TOTAL STATIC PRESSURE (AIR) TERMINAL UNIT

STANDARD

STEAM

SWITCH

ROOF TOP UNIT

NORMALLY CLOSED TIMED CLOSED

NATIONAL FIRE PROTECTION AGENCY

NORMALLY CLOSED TIMED OPEN

NORMALLY OPEN TIMED CLOSED

NORMALLY OPEN TIMED OPEN

OUTSIDE AIR TEMPERATURE

PERIMETER HEAT RETURN

PERIMETER HEAT SUPPLY

PRESSURE REDUCING VALVE

POUNDS PER SQUARE INCH

RETURN AIR TEMPERATURE

RADIANT CEILING PANEL

RELATIVE HUMIDITY

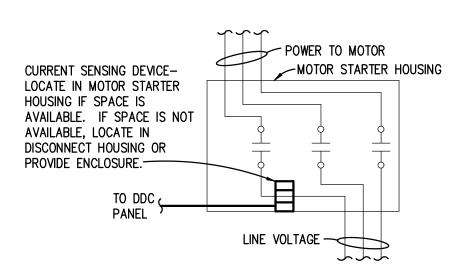
RADIANT HOT WATER HEATING

PARTS PER MILLION

PACKAGED AIR CONDITIONING UNIT

PRESSURE DROP (FEET OF WATER)

CF CONTROL WIRING



CURRENT SWITCH INSTALLATION DETAIL

1. ALL FAN AND PUMP MOTORS SHALL USE CURRENT SWITCHES FOR STATUS POINTS.

SEQUENCE OF OPERATION

CURRENT SWITCH INSTALLATION:

NOTES:

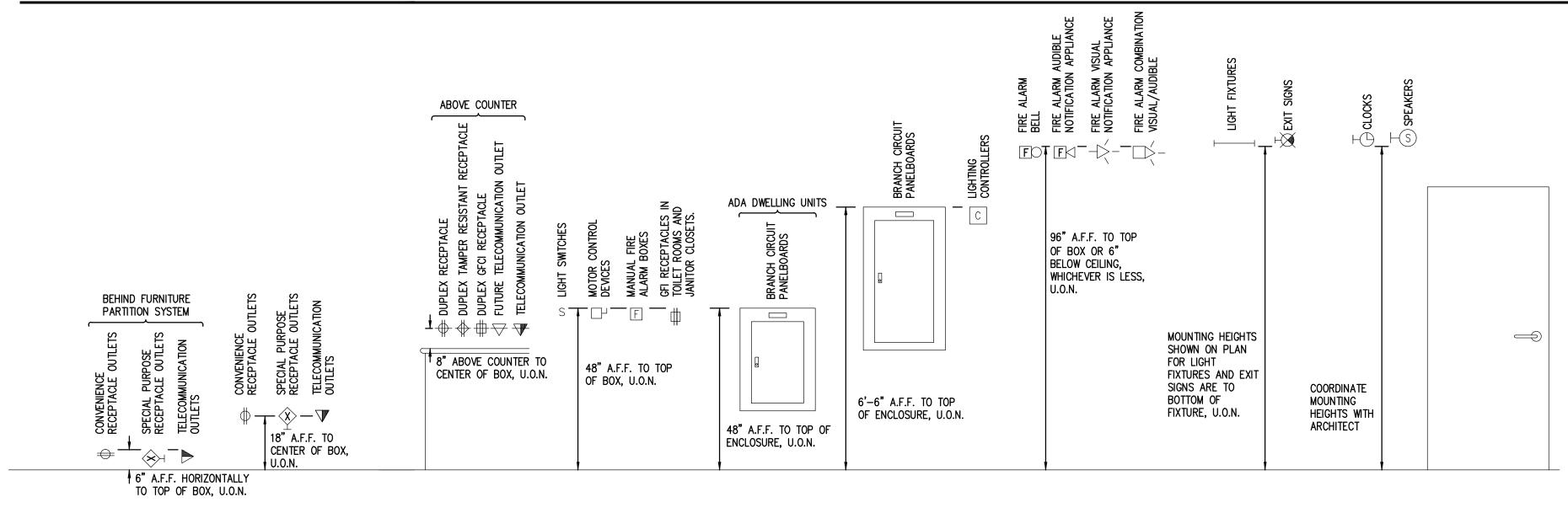
- 1. ALL DELAY TIMERS DESCRIBED IN THE SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).
- 2. INSTALL CURRENT SWITCH ON MOTOR LEADS. CURRENT SWITCH SHALL BE ADJUSTED TO MEET THE CURRENT DRAW REQUIRED TO DETECT FAN LOSS (OR VSD) OR PUMP COUPLING DETACHMENT.
- 3. UPON FAN OR PUMP MOTOR START AND AFTER 120 SECOND (ADJUSTABLE) DELAY BY DDC, IF THE CURRENT DRAW IS NOT APPROPRIATE, DDC SHALL ALARM THE MOTOR STATUS POINT. WHEN MOTOR IS ON AND NOT IN ALARM, DDC SHALL TOTALIZE RUN TIME HOURS FOR BAS USE.
- 4. UPON FAN OR PUMP MOTOR STOP AND AFTER 120 SECOND (ADJUSTABLE) DELAY BY DDC, IF THE CURRENT DRAW IS NOT ZERO, DDC SHALL ALARM THE MOTOR STATUS POINT.
- 5. ALL PUMP AND FAN MOTORS, NEW AND EXISTING, REQUIRE CURRENT SWITCHES (SEE DRAWINGS).



ELECTRICAL SYMBOL LIST

<u>SYMBOL</u>	DESCRIPTION	SYMBOL	DESCRIPTION TWO WAY COMMUNICATION SYSTEM	SYMBOL		-
FX (NL)	FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	CP	CONTROL PANEL	
	LIGHTING FIXTURE	TWCD	TWO-WAY COMMUNICATION SYSTEM			
	DIRECT/INDIRECT LIGHTING FIXTURE		AUTO DIALER TWO-WAY COMMUNICATION SYSTEM	VFC	VARIABLE FREQUENCY CONTROLLER. MANUAL CONTROLLER	
	EMERGENCY FIXTURE	TWCA	ANNUNCIATOR & COMMUNICATION PANEL		MAGNETIC CONTROLLER	
		TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP		COMBINATION MAGNETIC CONTROLLER	
	WALL MOUNTED LIGHTING FIXTURE		TWO-WAY COMMUNICATION SYSTEM AUTO DIALER		NON-FUSIBLE DISCONNECT SWITCH	
	LIGHTING FIXTURE	TWCDP	POWER SUPPLY WITH BATTERY BACK-UP			
, L		RGP	REMOTE GENERATOR ANNUCIATOR PANEL		FUSIBLE DISCONNECT SWITCH	
	DIRECTIONAL LIGHTING FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	CB	ENCLOSED CIRCUIT BREAKER	
\odot	PENDANT LIGHTING FIXTURE WALL SCONCE	UPS	UNINTERRUPTIBLE POWER SUPPLY		PUSH BUTTON STATION	
	LIGHTING TRACK	CSX	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE	(J)	JUNCTION BOX	
\bigtriangledown	TRACK LIGHTING FIXTURE	ϕ/ϕ	SINGLE / DUPLEX RECEPTACLE	lacksquare	HARD WIRE POWER CONNECTION	
• •	POLE MOUNTED LIGHTING FIXTURE	ф/Щ	SINGLE/DUPLEX RECEPTACLE CONTROLLED BY	۲	GROUND ROD	
	Pole mounted lighting fixture — post top	U/ U #	AUTOMATIC CONTROL DEVICE/SYSTEM	-•-	GROUND CONNECTION	
<u> </u>	BOLLARD LIGHTING FIXTURE	\mathbb{B}	QUAD RECEPTACLE	НН	HANDHOLE	
4.	EMERGENCY LIGHTING UNIT	+	ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS,		CONDUIT SLEEVE WITH BUSHINGS	
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL	 r#h	EMERGENCY AND GFI RECEPTACLES)	Х	LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE	
	ARROWS (SHADED AREA INDICATES FACE) EXIT LIGHTING FIXTURE WITH DIRECTIONAL	Щ	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER	0	CONDUIT UP	
↑ €€ ↑	ARROWS (SHADED AREA INDICATES FACE)	•	DUPLEX EMERGENCY RECEPTACLE	۲	CONDUIT DOWN	
HXX	EXIT LIGHTING FIXTURE - WALL MOUNTED	\diamondsuit	DUPLEX TAMPER RESISTANT RECEPTACLE	\triangleleft	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET]
H	EXIT/EMERGENCY LIGHTING COMBO		QUAD TAMPER RESISTANT RECEPTACLE	\triangleleft	ABOVE COUNTER EMPTY BOX FOR	
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH		ABOVE COUNTER DUPLEX		FUTURE TELECOMMUNICATION OUTLET	
ALCR	AUTOMATIC LOAD CONTROL RELAY LIGHTING CONTROL DEVICE - REFER TO	W	TAMPER RESISTANT RECEPTACLE	\bigcirc	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET	REFER TO
LC	LIGHTING CONTROL SCHEDULE	44 x#x	DUPLEX UPS RECEPTACLE		TELECOMMUNICATION OUTLET "X" INDICATES TYPE	ELECTRICAL STANDARD
XX	ROOM CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE	ф (DUPLEX RECEPTACLE WITH 2 USB PORTS	X	ABOVE COUNTER TELECOMMUNICATION	SCHEDULES
S	SINGLE POLE TOGGLE SWITCH	¥	4 PORT USB CHARGING STATION	×	OUTLET "X" INDICATES TYPE	
S2 S3	TWO POLE TOGGLE SWITCH 3 WAY TOGGLE SWITCH	\bigcirc	CEILING MOUNTED DUPLEX RECEPTACLE		TELECOMMUNICATION CEILING MOUNTED	
S4	4 WAY TOGGLE SWITCH		POWER POLE	X	OUTLET "X" INDICATES TYPE	J
K	KEY OPERATED SWITCH	X	SPECIAL RECEPTACLE – REFER TO ELECTRICAL	KXXXX	TELECOMMUNICATION BACKBOARD	
Кз	3 WAY KEY OPERATED SWITCH	т ж ж ж	STANDARD SCHEDULES	⊢TGB	TELECOMMUNICATION GROUNDING BUS B	AR
K4	4 WAY KEY OPERATED SWITCH	$\Psi \Psi \Psi$	MULTI-OUTLET RACEWAY	⊢TMGB-	TELECOMMUNICATION MAIN GROUNDING	BUS BAR
D	DIMMER SWITCH	⊷ "χ"	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET	IC	INTERCOM OUTLET	
D3 Do	3 WAY DIMMER SWITCH DIMMER OCCUPANCY SENSOR SWITCH		"X" INDICATES TYPE	S	SPEAKER	
DL	LOW VOLTAGE DIMMER SWITCH	PTX	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE	HS	SPEAKER - WALL MOUNTED	
Sp	PILOT SWITCH	FBX	FLOOR SERVICE FITTING "X" INDICATES TYPE	MIC	MICROPHONE	
			ACCESS FLOOR SERVICE FITTING	VC	VOLUME CONTROL/STATION SELECTOR	
		AFX	"X" INDICATES TYPE	BO	SIGNALING BELL	
		RX	CORD REEL "X" INDICATES TYPE	\bigcirc	SINGLE FACE CLOCK - CEILING MOUNTE	D
		SS	DUAL SWITCHING FOR INNER/OUTER LAMPS	Ю	SINGLE FACE CLOCK - WALL MOUNTED	
			OF FLUORESCENT LIGHT FIXTURES	-		
		5353	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	R	DOUBLE FACE CLOCK - CEILING MOUNT	ED
		5454	4-WAY DUAL SWITCHING FOR INNER/OUTER	S	DOUBLE FACE COMBINATION CLOCK/SPE CEILING MOUNTED	AKER
			LAMPS OF FLUORESCENT LIGHT FIXTURES	_		
		St	DIGITAL TIME SWITCH	Ŕ	DOUBLE FACE CLOCK - WALL MOUNTED	-
		Sı	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	S	DOUBLE FACE COMBINATION CLOCK/SPE WALL MOUNTED	
		SL	LOW VOLTAGE SWITCH	T⁄C	TIME CLOCK	
		So	OCCUPANCY SENSOR REFER TO ELECTRICAL	С	CONTACTOR	
		S02	STANDARD SCHEDULES OCCUPANCY SENSOR	P	PHOTOCELL	
			OCCUPANCY SENSOR		TWIST TIMER	
		<u>os</u> x	"X" INDICATES TYPE			

STANDARD MOUNTING HEIGHTS



IS PROJECT)

	SYMBOL	DESCRIPTION	<u>SYMBOL</u>
		SECURITY CAMERA	F
	MD	MOTION DETECTOR	SD
	K	SECURITY KEY SWITCH	DD
	DC	DOOR CONTACT	CO
	KP	KEY PAD	RT
	CR	CARD READER	TD
	DB	DURESS PUSH BUTTON STATION	BD
	DE	DELAYED EGRESS	FO
	REX	REQUEST TO EXIT STATION	F⊲
	PP	AUTOMATIC DOOR PUSH PAD OPERATOR	
	DO	DOOR OPERATOR	Ň
	DA	DOOR ACTUATOR	┌╱-
	AC	ACCESS CONTROL STATION	<u> </u>
	ACCP	ACCESS CONTROL CONTROL PANEL	\succ
	ACPS	ACCESS CONTROL POWER SUPPLY	-(F)-
	<u></u>	CIRCUIT BREAKER	_/
	_) ≩		
		DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED	
	Ŷ Ŷ		(F)
	E)	DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED	
	* °/	SWITCH	F
) AL	ہ ۲	AUTOMATIC OR MANUAL TRANSFER SWITCH	FACP
D ES		FUSE	FAA
	m	TRANSFORMER	NAC
	$ \ge $	CURRENT TRANSFORMER	
	38	POTENTIAL TRANSFORMER	IM
	● ● '	LIGHTNING ARRESTOR	CM
	X	PANELBOARD "X" INDICATES PANELBOARD NAME	TS
		GROUND	FS
	Ţ	STRESS CONE TERMINATION	DR
	K	SECURITY KEY INTERLOCK	
	G	ENGINE GENERATOR	
	M	UTILITY METER	
	EMU	ELECTRONIC METERING UNIT	
	A	AMMETER	
	V	VOLTMETER	
	AS	AMMETER SWITCH	
	VS	VOLTMETER SWITCH	
	SPD	SURGE PROTECTIVE DEVICE	
	CR	CONTROL RELAY	
	(TDR)	TIME DELAY RELAY	
		THERMAL OVERLOAD RELAY	
		NORMALLY OPEN CONTACTS	
	0/0	NORMALLY CLOSED CONTACTS	
		N.O. PUSH BUTTON SINGLE CIRCUIT	
	$\circ \perp \circ$	N.C. PUSH BUTTON SINGLE CIRCUIT	
	0	CABLE VAULT "X—X" INDICATES TYPE	
	<u> </u>	BRANCH CIRCUIT PANELBOARD	
		LOAD CENTER	
Γ		MOTOR CONTROL CENTER	
L	T	TRANSFORMER	
		DISTRIBUTION PANEL	
	⊢GB−-	GROUND BUS	
	⊢−PB−−∣	PLUG IN BUSWAY	
	⊢FB –	FEEDER BUSWAY	

<u>SYMBOL</u>	DESCRIPTION
F	MANUAL FIRE ALARM BOX
SD	SMOKE DETECTOR
DD	DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
TD	THERMAL DETECTOR
BD	PROJECTED BEAM DETECTOR
FO	FIRE ALARM BELL
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
-12- XX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
□ × _{xx}	FIRE ALARM COMBINATION VISUAL/ AUDIBLE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
-F-XX	FIRE ALARM COMBINATION VISUAL/ AUDIBLE NOTIFICATION APPLIANCE- CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
-\\\	FIRE ALARM VISUAL NOTIFICATION APPLIANCE CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED
◀ _F	FIREFIGHTERS PHONE JACK
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
IM	ADDRESSABLE MONITORING MODULE
CM	ADDRESSABLE CONTROL MODULE
TS	TAMPER SWITCH
FS	FLOW SWITCH
DR	MAGNETIC DOOR RELEASE

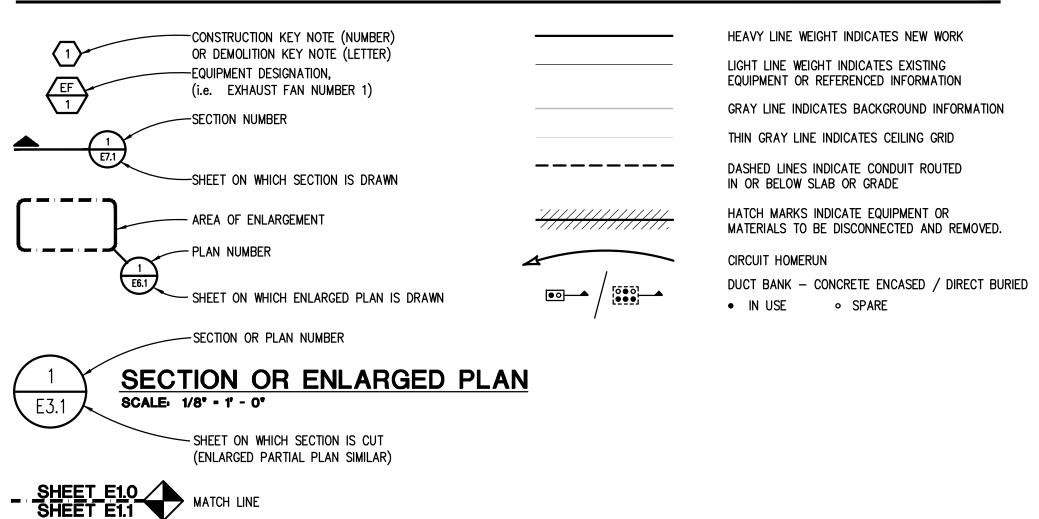
ELECTRICAL DRAWING INDEX

<u>SHEET NO.</u>	<u>SHEET_TITLE</u>
E0.1	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.2	ELECTRICAL STANDARD SCHEDULES
E0.3	FIRST LEVEL ELECTRICAL COMPOSITE PLAN
ED1.1D	FIRST LEVEL ELECTRICAL DEMOLITION PLAN – ZONE 'D'
E2.1D	FIRST LEVEL LIGHTING PLAN — ZONE 'D'
E3.1D	FIRST LEVEL POWER AND AUXILIARY SYSTEMS PLAN - ZONE 'D'
E7.1	ELECTRICAL DETAILS AND DIAGRAMS

ELECTRICAL ABBREVIATION LIST

<u>ABBREVIATION</u> A AER	<u>DESCRIPTION</u> AMPERES ARC ENERGY REDUCTION	<u>ABBREVIATION</u> G/GRD/EG GFCI	<u>Description</u> Ground Ground Fault Circuit Interrupter	<u>ABBREVIATION</u> OC OFCI	<u>DESCRIPTION</u> ON CENTER OWNER FURNISHED,
AF AFCI A.F.F.	AMPERES FRAME (BREAKER RATING) ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISH FLOOR	GFP HOA HP	GROUND FAULT PROTECTION HAND-OFF-AUTO HORSEPOWER	OFOI	CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED
AIC AL AR	AMPS INTERRUPTING CAPACITY AUDIENCE LEFT AUDIENCE RIGHT	HV HZ IG	HIGH VOLTAGE HERTZ ISOLATED GROUND	P PB PH	POLE PUSHBUTTON STATION PHASE
AT ATS AUX	AMPERES TRIP (BREAKER SETTING) AUTOMATIC TRANSFER SWITCH AUXILIARY	JB	JUNCTION BOX	PT PDP	POTENTIAL TRANSFORMER POWER DISTRIBUTION PANEL
BKR BPS	BREAKER BOLTED PRESSURE SWITCH	KA KV KVA	THOUSAND AMP KILOVOLT KILOVOLT - AMPERES	RECEPT. RDP RP	RECEPTACLE RECEPTACLE DISTRIBUTION PANEL RECEPTACLE PANEL
C CB CFCI	CONDUIT CIRCUIT BREAKER CONTRACTOR FURNISHED,	KW KWH	KILOWATT KILOWATT – HOURS	RSC	RIGID STEEL CONDUIT SHORT CIRCUIT CURRENT RATING
СКТ	CONTRACTOR INSTALLED	LA LP	LIGHTNING ARRESTOR LIGHTING PANEL	SCHED SPD SW	SCHEDULE SURGE PROTECTION DEVICE SWITCH
CT DEMO DIM	CURRENT TRANSFORMER DEMOLITION DIMENSION	LDP MAX MCA	LIGHTING DISTRIBUTION PANEL MAXIMUM MINIMUM CIRCUIT AMPACITY	SWBD SWGR	SWITCH SWITCHBOARD SWITCHGEAR
DISC DP DS	DISCONNECT DISTRIBUTION PANEL DOWNSTAGE	MCB MCC MDP	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL	tb Telecom Tr	TERMINAL BOX TELECOMMUNICATIONS TAMPER RESISTANT
DWG EBU	DRAWING EMERGENCY BATTERY UNIT	MECH MIN	MECHANICAL MINIMUM	ttb Typ	TELEPHONE TERMINAL BACKBOARD
EC ELEC	ELECTRICAL CONTRACTOR ELECTRICAL	MISC. MLO MOP	MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION	U.O.N. US	UNLESS OTHERWISE NOTED UPSTAGE
EM/ EMERG EMT EO	EMERGENCY ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED	MTD MTG MTR	MOUNTED MOUNTING MOTOR	V W	VOLTS WIRE OR WATTS
EPO EWC EXIST	EMERGENCY POWER OFF ELECTRIC WATER COOLER EXISTING	N NC	NEUTRAL NORMALLY CLOSED	WG WP WR	WIRE GUARD WEATHERPROOF WATER RESISTANT
FA FLA	FIRE ALARM FULL LOAD AMPS	NEC NF NIC	NATIONAL ELECTRICAL CODE NON-FUSIBLE	XFMR XP	TRANSFORMER EXPLOSION PROOF
FLR FOH FSEC FU	FLOOR FRONT OF HOUSE FOOD SERVICE EQUIPMENT CONTRACTOR FUSE	NIC NL NO NTS	NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE	(E) (R)	EXISTING RELOCATED

STANDARD METHODS OF NOTATION





INTERIOR LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	VOLTAGE	(QTY.) LAMPS	MANUFACTURERS					
L1	LED RECESSED 6 INCH DOWNLIGHT: LED WITH VENTILATED DIE CAST ALUMINUM HEAT SINK, SELF FLANGED WHITE TRIM RING WITH SEMI-SPECULAR REFLECTOR, DIFFUSED LENS, WIDE DISTRIBUTION. 0-10V 10% DIMMING.	MULTI	2,000 LUMENS 4000K 80CRI	1. GOTHAM EVO SERIES 2. ELITE HH6-LED SERIES 3. PORTFOLIO LD6B SERIES					
L2	LED 24'-0" DIAMETER DIRECT/INDIRECT CURVED PENDANT FIXTURE: 4" SQUARE ALUMINUM HOUSING DIE CAST ALUMINUM END CAPS. LENGTH AS INDICATED ON PLANS. FIXTURE SHALL HAVE 50% UP LIGHT AND 50% DOWNLIGHT. 0-10V 10% DIMMING. FINISH BY ARCHITECT.	MULTI	1,500 TOTAL LUMENS PER FOOT 4000K 80CRI	1. LUMOS RP SERIES 2. CAMMAN AVALON SERIES 3. BETA-CALCO KURL SERIES					
L3	LED 46'-0" DIAMETER DIRECT/INDIRECT CURVED PENDANT FIXTURE: 4" SQUARE ALUMINUM HOUSING DIE CAST ALUMINUM END CAPS. LENGTH AS INDICATED ON PLANS. FIXTURE SHALL HAVE 50% UP LIGHT AND 50% DOWNLIGHT. 0-10V 10% DIMMING. FINISH BY ARCHITECT.	MULTI	1,500 LUMENS PER FOOT 4000K 80CRI	1. LUMOS RP SERIES 2. CAMMAN AVALON SERIES 3. BETA-CALCO KURL SERIES					
L4	LED INDIRECT SURFACE MOUNT ASYMMETRIC LIGHT FIXTURE: ALUMINUM HOUSING, ASYMMETRIC FORWARD THROW DISTRIBUTION. FULLY ADJUSTABLE YOKE MOUNTING. 0–10V 10% DIMMING. PROVIDE ADDITIONAL STEEL U-CHANNEL SUPPORT AS REQUIRED.	MULTI	12,000 LUMENS 4000K 80CRI	1. SPI ECHO ROUND SERIES 2. ORGATEC ZIRO SERIES 3. COOPER AMETRIX SERIES					
L5	LED RECESSED 6 INCH DOWNLIGHT: LED WITH VENTILATED DIE CAST ALUMINUM HEAT SINK, SELF FLANGED WHITE TRIM RING WITH SEMI-SPECULAR REFLECTOR, DIFFUSED LENS, WIDE DISTRIBUTION. 0-10V 10% DIMMING.	MULTI	1,500 LUMENS 4000K 80CRI	1. GOTHAM EVO SERIES 2. ELITE HH6-LED SERIES 3. PORTFOLIO LD6B SERIES					
R1	LED 6 INCH RETROFIT DOWNLIGHT: LED WITH VENTILATED DIE CAST ALUMINUM HEAT SINK, SELF FLANGED WHITE TRIM RING WITH SEMI-SPECULAR REFLECTOR, DIFFUSED LENS, WIDE DISTRIBUTION. 0-10V 10% DIMMING.	MULTI	2,000 LUMENS 4000K 80CRI	1. GOTHAM EVO-R SERIES 2. ELITE HHJ6-LED SERIES 3. PORTFOLIA LDRT6B SERIES					
EXIT SIGN	LED EXIT SIGN: DIE CAST ALUMINUM WHITE HOUSING. HIGH OUTPUT LED DIFFUSE LIGHT PANEL, SINGLE OR DOUBLE STENCIL FACE AS INDICATED ON PLANS. REFER TO PLANS FOR MOUNTING HEIGHTS AND DIRECTIONAL ARROWS.	MULTI	HIGH OUTPUT LED LIGHT PANEL	1. LITHONIA SIGNATURE SERIES 2. DUAL-LITE SEMPRA SERIES 3. SURE-LITES CX SERIES					

1. FOR FIXTURES INDICATED AS MULTI-VOLT ON SCHEDULE, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND PROVIDE PROPER VOLTAGE. 2. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.

DTE LIGHTING INCENTIVES PROGR

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MEET REQUIREMENTS FOR THE OWNER TO PARTICIPATE IN THE CURRENT DTE ENERGY S PROGRAM. THE FOLLOWING ITEMS WILL BE REQUIRED BUT NOT LIMITED TO, FOR C PARTICIPATE IN THIS PROGRAM:

- 1. ON BEHALF OF THE OWNER, PROVIDE ALL REQUIRED INFORMATION FOR THE RES APPLICATION. REFER TO DTE ENERGY PROGRAM APPLICATION AT www.dtetradea 2. CONTRACTOR BUSINESS INFORMATION. 3. LIGHTING INCENTIVES WORKSHEET.
- 4. TYPE OF FIXTURES REMOVED, WATTAGE AND LAMP SIZE. 5. EASY TO READ ITEMIZED INVOICES WITH PART NUMBERS OF ALL LED LIGHT FIXTURES, AND CONTROLS.
- 6. MANUFACTURERS CUT SHEETS WITH HIGHLIGHTED FIGURES, TYPES OF LED FIXTURES, DRIVERS, AND CONTROLS, ETC. AS REQUIRED BY DTE. 7. MEASURES ARE COMPLETELY INSTALLED WITH 90 DAYS OF PROJECT APPROVAL.
- IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO CONTACT DTE'S ENERGY SAVINGS TEAM OR ASSIGNED REPRESENTATIVE IF A PROJECT IS DELAYED, OR SUBSTANTIALLY CHANGED.

THE ELECTRICAL CONTRACTOR SHALL WORK WITH AND COORDINATE WITH THE OWNER FOR THE RESERVATION PROCESS PRIOR TO SITE WORK BEING CONDUCTED AND POST REVIEW INSPECTION FOR REMOVAL AND INSTALLATION OF ALL EQUIPMENT RELATED TO THE INCENTIVE PROGRAM.

PLAN REFERENCE	ROOM TYPE	
		SWITCH
A	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOL
3. 4. 5. 6. 7. 8. 9.	NOTE: REFER TO PLANS FOR LOCATION OF LOCAL CONTROL. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGH PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (ALCR) P CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SEN REFER TO LUMINAIRE SCHEDULE FOR FIXTURE CHARACTERI LIGHTING SENSOR SHALL HAVE CONTACT FOR HVAC CONTF REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRA PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONT PERCENTAGE LIGHT OUTPUT REDUCTION IS FOR ALL FIXTUR	Per Switchin NSOR and Eq Istics. Rol When A MS For add Trol System

					EX
#	LOAD TYPE	DESCRIPTION	CB TYPE	СВ	VA
1	NC	EXISTING LOAD		20	500
3	NC				4000
5	NC	EXISTING LOAD		60	4000
7	NC				4000
9	NC	EXISTING LOAD		20	500
11	R	RECEPTACLE		20	360
	BUS AI MAIN T MINIMU MOUNT	GE: <u>208Y/120</u> MPACITY: <u>100A</u> YPE: <u>MLO</u> M A.I.C.: <u>10,000</u> ING: <u>FLUSH</u> FEED-THROUGH LUGS DOUBLE LUGS INTEGRAL SPD BOARD LOCATION	ELECTR NON-C KITCHEI RECEPT RECEPT LIGHTIN ADDITIC MOTORS MOTORS	IC HEAT ONTINUO N LOAD ACLE BA ACLE DE G LOAD ONAL TRA 5, HIGHE S, REMAI	US LOAD (K) ASE LOAD IMAND LO (L) ACK LIGHT ST LOAD NING LOA ID SIZING II
© Cop	yright 20	20 by Peter Basso Associates, Inc	CALCULA	IED FROM	CONNECTE

RAM	
TING ALL SAVINGS OWNER TO	
ESERVATION leally.com	
IXTURES,	

			COPPER CON	DUCTORS			KEYED NOTES		
OVERCURRENT		: Size R KCMIL)	CONDUIT SIZE						
DEVICE RATING (AMPERES)	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)			
15-20	12	12	3/4"	3/4"	3/4"	3/4"			
25-30	10	10	3/4"	3/4"	3/4"	3/4"			
35–40	8	10	3/4"	3/4"	3/4"	3/4"			
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1		
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1		
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"			
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1		
90–100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1		
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1		
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1		
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"			
175	2/0	6	-	2"	2"	2"			
200	3/0	6	-	2"	2"	2 1/2"			
225	4/0	4	-	2"	2"	2 1/2"			
250	250	4	-	2 1/2"	2 1/2"	2 1/2"			
300	350	4	-	2 1/2"	2 1/2"	3"			
350	500	3	-	3"	3"	3"			
400	500	3	-	3"	3"	3"			

<u>GENERAL NOTES:</u> 1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE. 2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION. 3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW. 4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT. 5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL

EQUIPMENT LUG SIZES. 6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE. 7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY. 8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER

CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER. KEYED NOTES: 1. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

FLOOR SERVICE FITTING ASSEMBLY SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER (SEE NOTE +2)	DEVICE CONFIGURATION	FLANGE/COVER MATERIAL & COLOR	SERVICE PLATE TYPE	MINIMUM DEPTH	MAXIMUM CONDUIT		
FB4A	MULTI FUNCTION FOUR GANG, MULTI SERVICE, STAMPED STEEL FOR ON GRADE APPLICATIONS, RECESSED FLOOR BOX. 2 DUPLEX RECEPTACLES AND 2 TELECOM OUTLETS, CARPET/TILE INSERT COVER.	WIREMOLD RFB4E-OG	2D / 2T	BS	F	3 1/2"	2"		

<u>GENERAL NOTES:</u> 1. PROVIDE 1 1/4"C. FROM EACH TELECOM FLOOR BOX (GANG) TO ACCESSIBLE LOCATION IN CEILING. 2. OTHER ACCEPTABLE MANUFACTURERS ARE STEEL CITY, OR HUBBELL-RACO. 3. ALL PRODUCTS IN THIS SCHEDULE SHALL MEET AND EXCEED THE UL514A or UL514C SCRUB WATER EXCLUSION REQUIREMENT. 4. COORDINATE ALL TELECOM AND A/V OUTLETS WITH COMMUNICATIONS AND A/V CONTRACTORS.

ABBREVIATIONS: $\overline{PF} = PARTITION FEED$ BS = BRASSD = DUPLEX RECEPTACLE AL = ALUMINUM

T = 2 TELECOM OPENINGS BK = BLACK GY = GRAY (CONCRETE)BZ = BRONZE NK = NICKEL

©Copyright 2020 by Peter Basso Associates, Inc

FR = FLIP LID/RECTANGULARSL = SLIDESF = FLIP COVER

INTERIOR LIGHTING CONTROL SCHEDULE

LOCAL CONTROL		CONTROL ON / OFF				DAYLIGHT		NO DETECTION FULL OFF	LIGHTING	CONTACT FOR HVAC	NOTES	
H TYPE	SWITCH CONTROL	ON / OFF		L TO %	CONTROL	side Light	top Light	MAINTAIN FC LEVEL	(MIN)	CIRCUIT CONTROL	CONTROL	
/OLTAGE	ON-OFF-DIM	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	Continuous dim	NA	YES	45	20	ALCR	YES	ALTERNATE: PROVIDE WIRELESS LIGHTING CONTROL SYSTEM

NA = NOT APPLICABLE

ING CIRCUIT AS REQUIRED. EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM.

A "YES" SELECTION IS MADE IN THE HVAC CONTROL COLUMN. DDITIONAL SENSOR REQUIREMENTS.

I THE DESIGNATED ROOM UNLESS OTHERWISE NOTED.

XISTING RP-20 LOAD TYPE ØC VA CB CB DESCRIPTION ØA ØB
 NC
 2

 NC
 4

 NC
 6

 NC
 8
 40 EXISTING LOAD 6400 2400 6400 2400 4500 EXISTING LOAD 500 20 NC 10 R 12 CF-1,2 1900 1400 20 RECEPTACLE 1080 20 7400 8300 ØA <u>FEEDER_AND</u> OVERCURRENT <u>SIZING</u> DEMAND CALCULATED FACTOR DEMAND ECTED LOAD <u>NOTES:</u> 100% 125% _____ _____ 100% 125% 22100 22100 (NC) 22100 100% 100% 100% 100% 1440 1440 1440) (R) 100% 100% .0AD (R) 100% 50% _____ _____ _____ 125% 100% HTING LOAD D (MH) DAD (M) ____ 100% 125% 100% _____ _____ _____ 100% 100% _____ TOTAL(KVA): 23.54 INFORMATION IS TOTAL (AMPS): 65 TOTAL (AMPS): 65 ted load

				EX	IST	ING	RP-	2N						
	OAD YPE DESCRIPTION	CB TYPE	СВ	VA	ØA	ØB	ØC	VA	СВ	CB TYPE	DESCRIPTION		LOAD TYPE	
1 N	NC EXISTING LOAD		20	500	1040			540	20		RECEPTACLE		R	2
3 N	NC EXISTING LOAD		20	500		680		180	20	GFCI	RECEPTACLE		R	
5 N	NC EXISTING LOAD		20	500			1220	720	20	GFCI	RECEPTACLE		R	6
7 N	NC EXISTING LOAD		20	500	650			150	20		FAN LIGHTING		L	8
) N	NC EXISTING LOAD		20	500		1000		500	20		EXISTING LOAD		NC	1
1 N	NC EXISTING LOAD		20	500			1000	500	20		EXISTING LOAD		NC	1
3 N	NC EXISTING LOAD		20	500	1000			500	20		EXISTING LOAD		NC	1
5 N	NC EXISTING LOAD		20	500		1000		500	20		EXISTING LOAD		NC	1
7 N	NC EXISTING LOAD		20	500			1000	500	20		EXISTING LOAD		NC	1
9 1	NC EXISTING LOAD		20	500	1000			500	20		EXISTING LOAD		NC	2
21 N	NC EXISTING LOAD		20	500		1000		500	20		EXISTING LOAD		NC	2
3	R RECEPTACLE		20	540			1040	500	20		EXISTING LOAD		NC	2
_				500	1000			500	20		EXISTING LOAD		NC	2
	NC EXISTING LOAD		20	500		1000		500	20		EXISTING LOAD		NC	2
	R RECEPTACLE	NEW	20	540			900	360	20	NEW	RECEPTACLE		R	3
V0 BU	ANELBOARD INFORMATION DLTAGE: 208Y/120 JS AMPACITY: <u>100A</u> AIN TYPE: <u>MLO</u>	CONTINU ELECTRI NON-CO	JOUS LO C HEAT ONTINUO	AD (C) (E) US LOAD	4690 ØA <u>CTED LO</u> / (NC)	<u>4680</u> ØB <u>AD</u> 			<u>CALCULA</u> <u>DEMAND</u> 	<u>TED</u>	FEEDER AND OVERCURRENT	<u>NOTES:</u>		-
MIN	NIMUM A.I.C.: 10,000	KITCHEN	LOAD	(К)			-	100%			100%			_
	OUNTING: SURFACE			SE LOAD	• •	2880	•	100%	2880		100% 2880			_
	□ FEED-THROUGH LUGS			MAND LO	DAD (R)			50%			100%			_
	DOUBLE LUGS	LIGHTIN	G LOAD	(L)		150		100%	150		125% 188			-
	□ INTEGRAL SPD	MOTORS	, HIGHES	ST LOAD		D		100%			100% 125%			-
_	ANELBOARD LOCATION ht 2020 by Peter Basso Associates, Inc	Motors Note: De	, REMAII	NING LOA	AD (M) NFORMATIC	DN IS	TOT	100%	<u>14.53</u> 40		125% 100% L (AMPS): <u>40</u>			-

	RACEWAY / CONDUCTOR / CABLE APPLI	CA	TIC	DN	SC	HE	EDL	JLE	E			
		W	RE								CABLE /CORD	
		COPPER, TYPE THHN/THWN-2	COPPER, TYPE XHHW-2	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-40	FLEXIBLE METAL CONDUIT (FMC)	LIQUID TICHT FLEXIBLE METAL CONDUIT (LFMC)	SURFACE RACEWAY	METAL CLAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)	POWER LIMITED CABLE
	CONCEALED, ACCESSIBLE CEILINGS	X		X	X						Х	
╘	CONCEALED, INACCESSIBLE CEILINGS	X		Х	X							
IRCU RS	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X		Х	Х			X			Х	
BRANCH CIRCUIT INTERIORS	CONCEALED IN CMU WALLS	X		Х	Х							
	EXPOSED, FINISHED SPACES	Х								Х		
	EMBEDDED IN ELEVATED CONCRETE SLAB	X					x					
	DAMP AND WET LOCATIONS	Х			X	Х	X		X			
SPECIAL APPLICATIONS	CLASS 1 CONTROL CIRCUITS	X		Х	Х	Х						
	CLASS 2 CONTROL CIRCUITS	X		Х	Х	Х						х
SPE(PLIC/	CLASS 3 CONTROL CIRCUITS	X		Х	Х	Х						х
API	CONNECTIONS TO TRANSFORMERS, MOTORS AND VIBRATING EQUIPMENT		x					x	x			
	GENERAL NOTES:											

1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.

2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION. 3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS												
BRANCH												
CKT Rating (A)	(AWG)	120V	208V	240V	277V	480V						
20A	12	83	143	165	191	331						
	10	128	222	256	295	511						
	8	201	348	402	464	804						
	6	313	542	625	721	1250						
30A	10	85	148	170	197	341						
	8	134	232	268	309	536						
	6	208	361	417	481	833						
	4	313	542	625	721	1250						

GENERAL NOTES: 1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9. 2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE

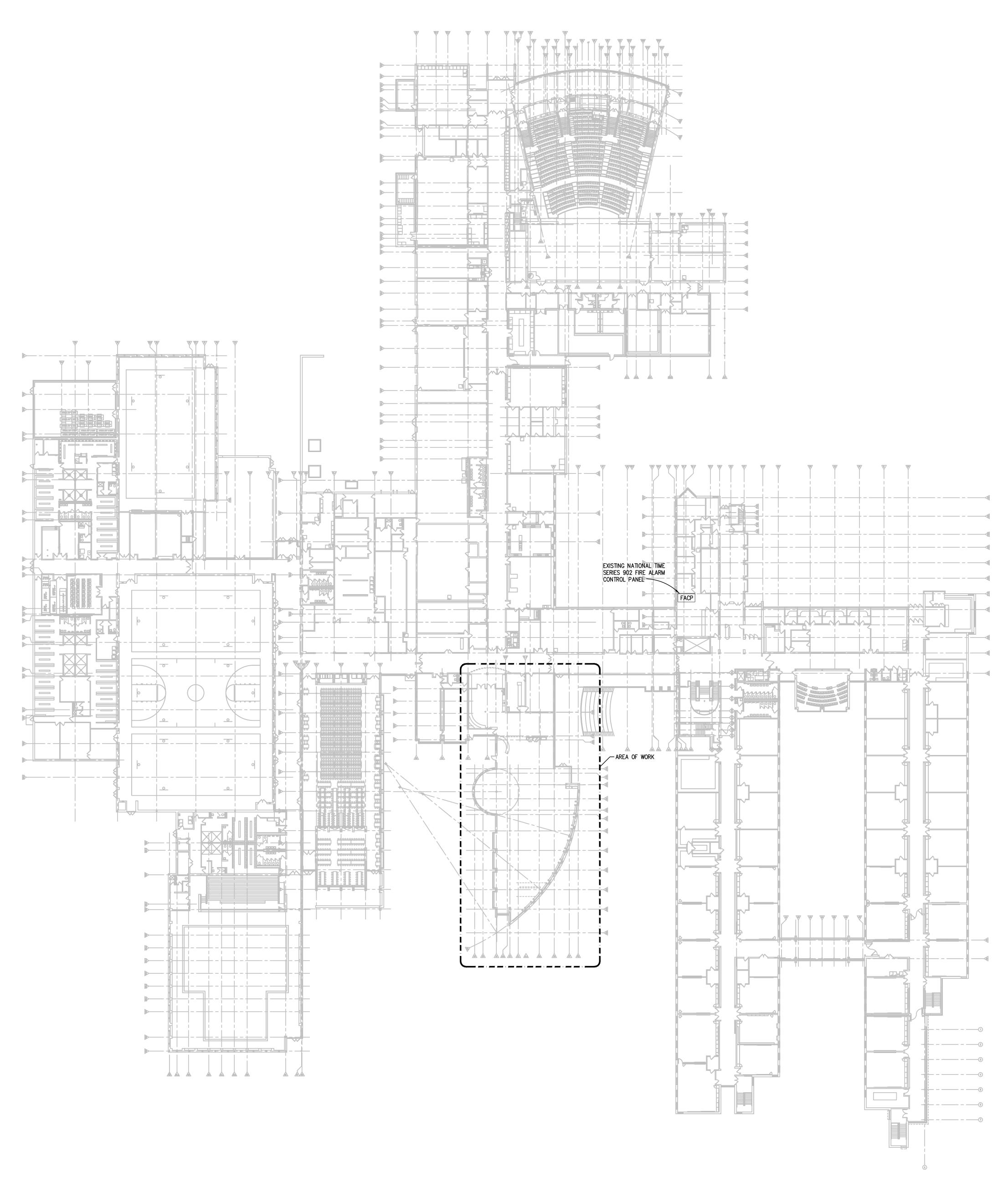
BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%. 3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.

4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.



E0.2

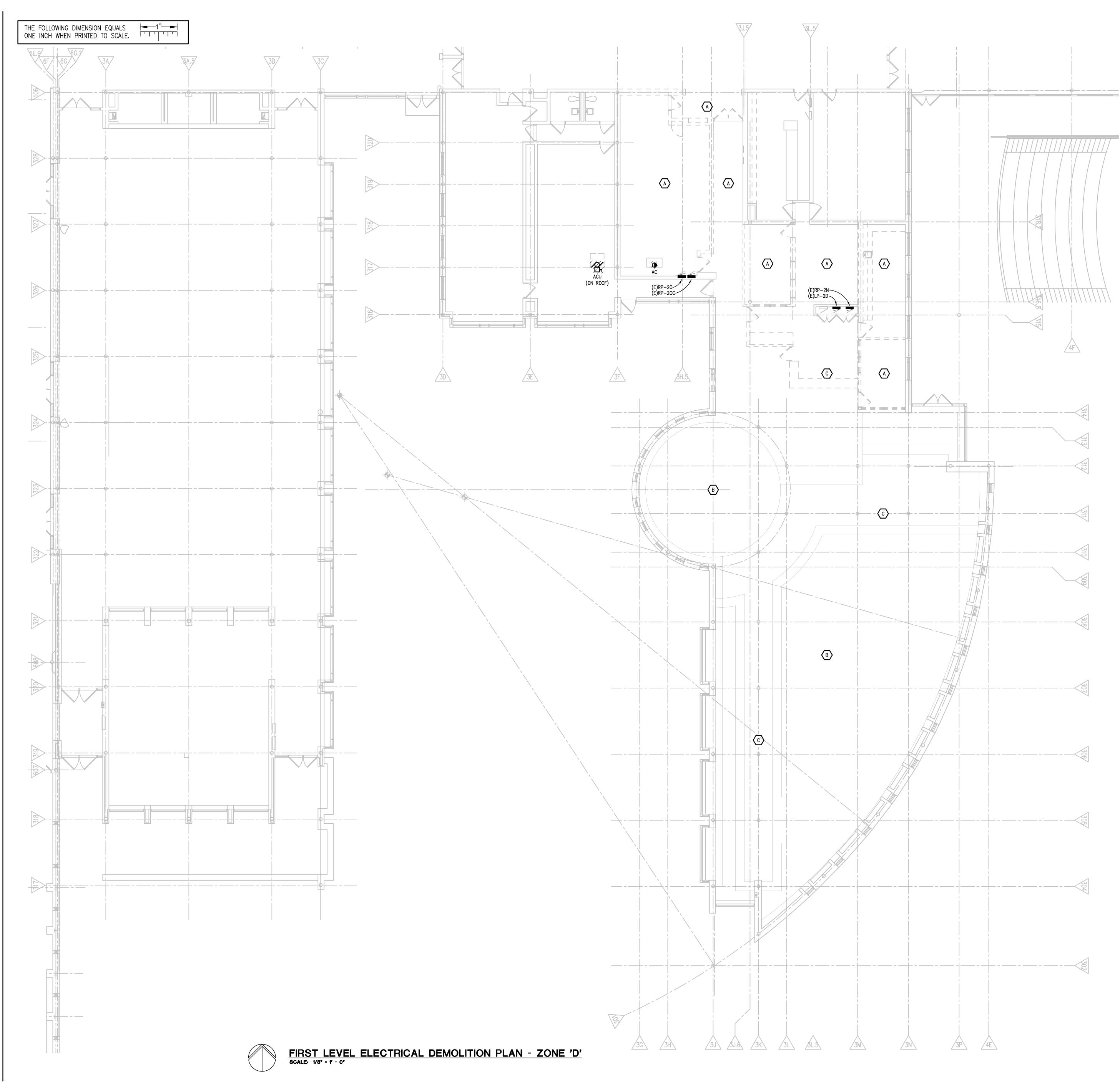
THE FOLLOWING DIMENSION EQUALS	 ⊸ 1" ─ ►
ONE INCH WHEN PRINTED TO SCALE.	











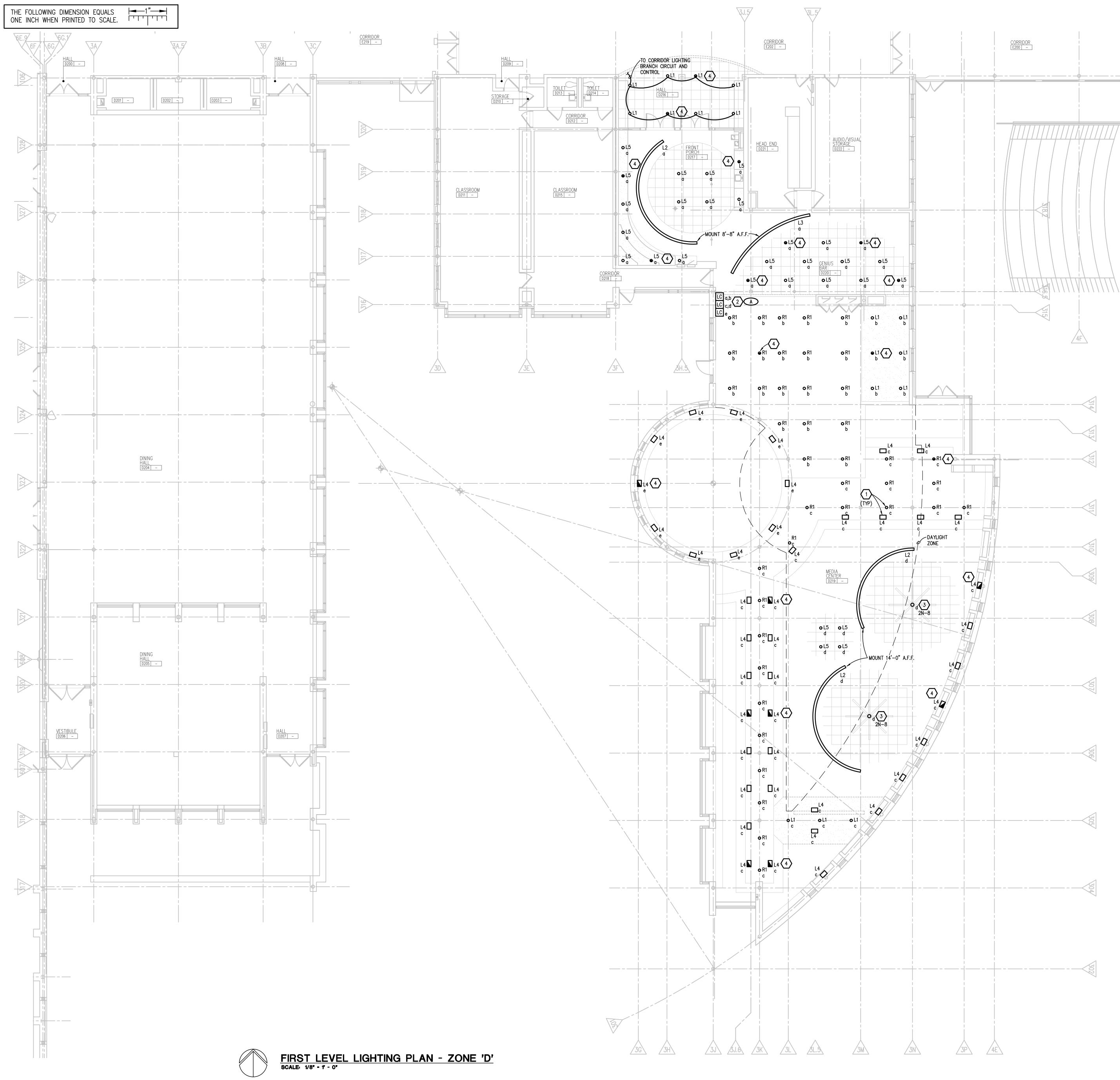
ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- 2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- 3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
- 4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- 5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- 6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- 7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- 8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- 9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- 10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- 11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- 12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- 13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

(#) DEMOLITION KEY NOTES:

- A. REMOVE ALL ELECTRICAL DEVICES ON WALLS AND CEILINGS TO BE DEMOLISHED (LIGHTING, POWER, FIRE ALARM, P/A, ETC.) MAINTAIN LIGHTING BRANCH CIRCUIT FOR REUSE. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN (WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO NEW WORK PLANS FOR EXTENT OF WORK.
- B. REMOVE INDIRECT LIGHT FIXTURES IN SPACE. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- C. LIGHTING IN EXISTING CEILING TO BE RETRO-FITTED. REFER TO NEW WORK PLANS.





ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS. 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT
- SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED. 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS
- AND THE TRADES INSTALLING THE WORK. 7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND
- POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS. 8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- 10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 11. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEY NOTES:

- 1. LOCATE WHERE EXISTING FIXTURE WAS REMOVED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. MODIFY SWITCHLEG AS REQUIRED FOR WORK INDICATED. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 2. CIRCUIT LIGHT FIXTURES TO MAINTAINED BRANCH CIRCUIT. MODIFY SWITCHLEG AS REQUIRED FOR WORK INDICATED. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CEILING FAN LIGHT. COORDINATE WITH MANUFACTURER WIRING DIAGRAMS. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL ELECTRICAL CONNECTIONS. LIGHTING SHALL BE CONTROLLED BY LIGHTING CONTROLS SYSTEM.
- 4. CIRCUIT TO NEAREST AVAILABLE EMERGENCY LIGHTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.



DRAWING NO.



PROJECT NO.

FIRST LEVEL LIGHTING PLAN - ZONE 'D'						
ISSUE DATES						
1–15–2021 CONSTRUCTION DOCUMENTS						
DATE: ISSUED FOR:						
DRAWN ZDB						
CHECKED ZDB						
APPROVED GJZ						

PROJECT TITLE Troy High School Media Center Remodeling Bid Package No. 32

Troy School District Troy, Michigan

DRAWING TITLE



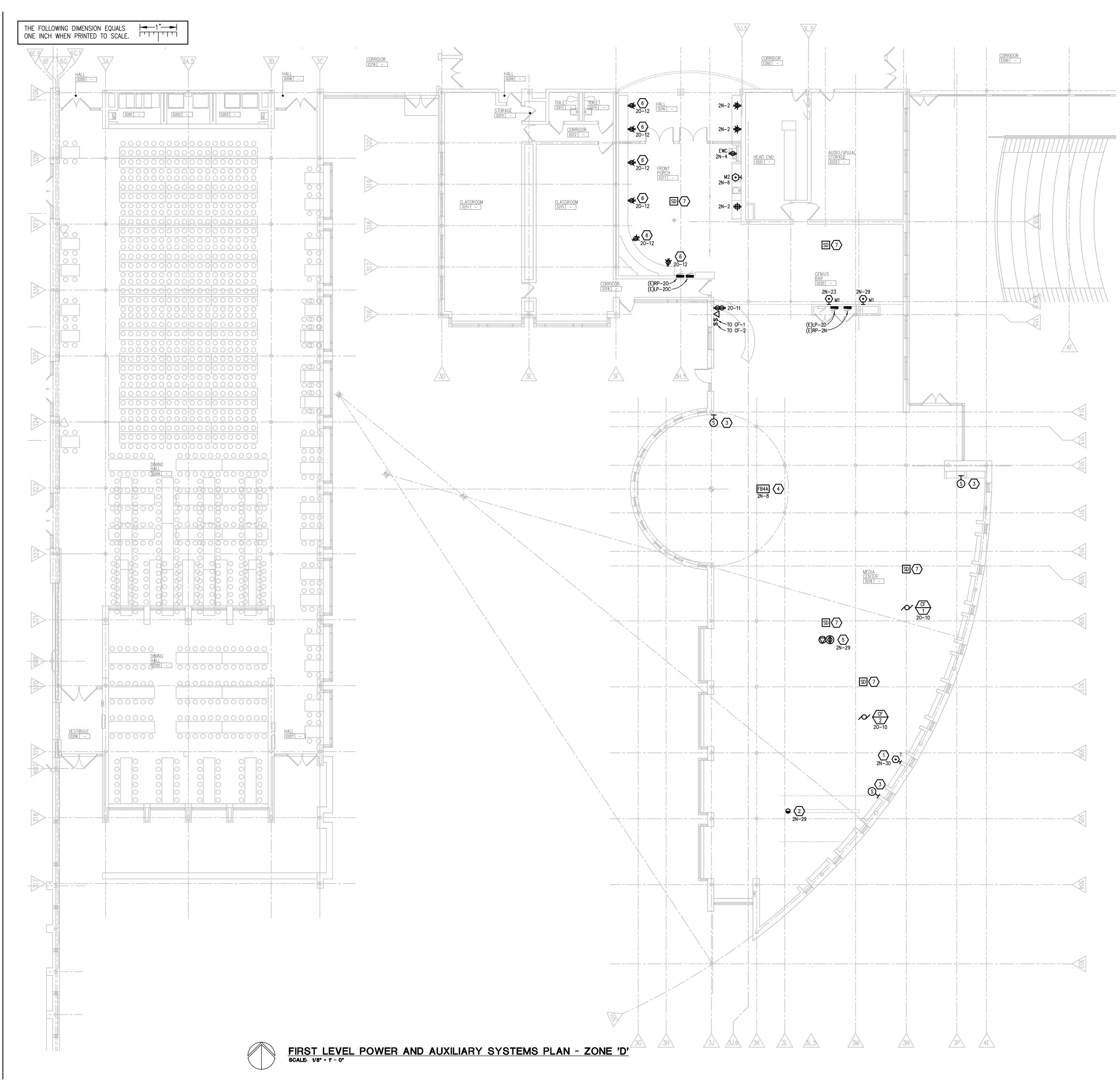
CONSULTANT



REGISTRATION SEAL

TMP ARCHITECTURE INC BLOOMFIELD HILLS • MICHIGAN • 48302 PH•248.338.4561 FX•248.338.0223 EM • INFO@ TMP-ARCHITECTURE.COM

1191 WEST SQUARE LAKE ROAD



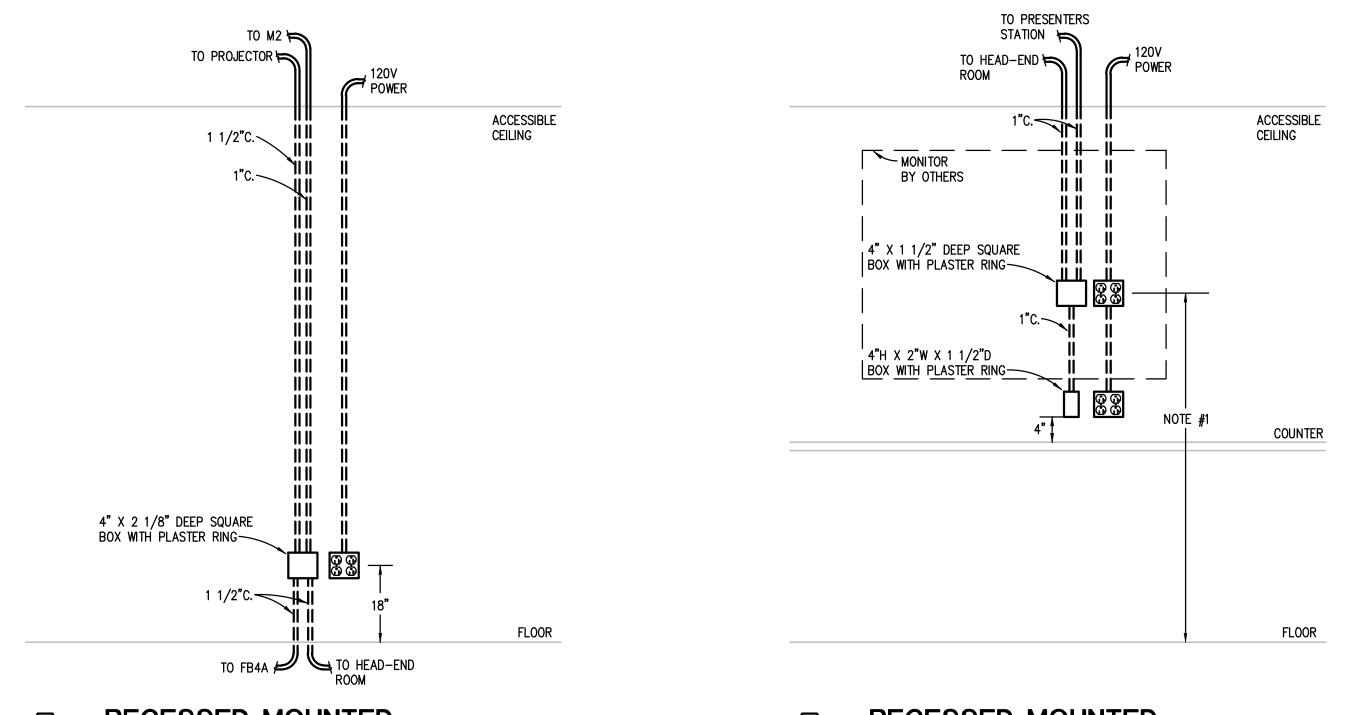
ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- SYSTEMS. 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT
- SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED. 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS
- AND THE TRADES INSTALLING THE WORK.
- 7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- 8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- 10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 11. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

(#) CONSTRUCTION KEY NOTES

- 1. PRESENTER LOCATION. COORDINATE FINAL LOCATION WITH OWNERS REPRESENTATIVE. REFER TO DETAIL ON E7 SERIES.
- POWERED PROJECTION SCREEN COORDINATE FINAL LOCATION WITH ARCHITECTURAL. COORDINATE FINAL LOCATION OF CONTROLLER WITH OWNERS REPRESENTATIVE PRIOR
- TO ROUGH IN. 3. FUTURE SPEAKER LOCATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" CONDUIT BACK TO PRESENTER LOCATION. COORDINATE FINAL LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN.
- 4. FLOOR BOX FOR MOBILE DISPLAY. PROVIDE (1) 1 1/2" C. TO PRESENTERS LOCATION. COORDINATE FINAL LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO
- 5. CEILING MOUNTED PROJECTOR. PROVIDE (1) 1 1/2"C. TO PRESENTERS LOCATION.
- 6. MOUNT RECEPTACLE HORIZONTAL 12" A.F.F. TO CENTER OF BOX.
- PROVIDE (2) SMOKE DETECTORS. PROVIDE (1) ABOVE DROP CEILING AND (1) BELOW. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.





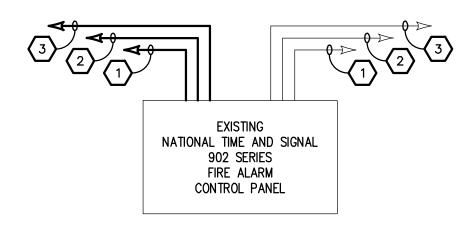
RECESSED MOUNTED MONITOR WORKSTATION DETAIL NO SCALE

<u>NOTES:</u>

- 1. COORDINATE FINAL LOCATION OF POWER/AV DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
- 2. AV DEVICES AND COVER PLATES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.
- 3. ALL BLANK COVER PLATES SHALL BE STAINLESS STEEL.
- 4. PROVIDE WIREMOLD ON EXISTING WALLS.



- CONTRACTOR PRIOR TO ROUGH IN.
- CONTRACTOR.
- 3. ALL BLANK COVER PLATES SHALL BE STAINLESS STEEL.

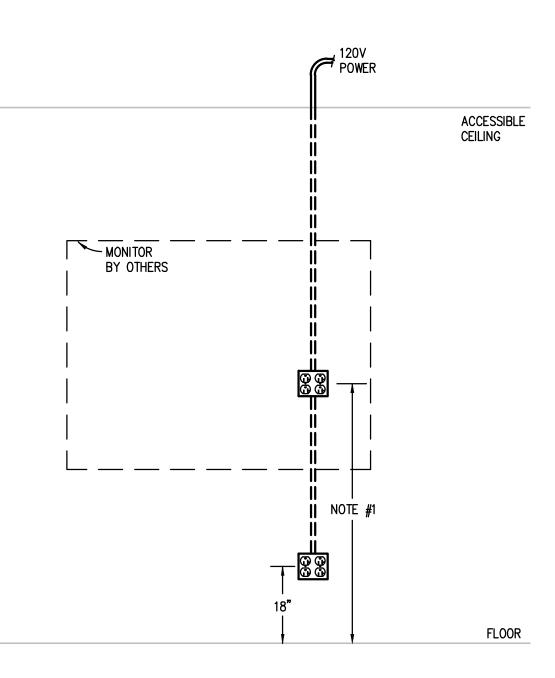


NO SCALE

- MANUFACTURER.
- CALCULATIONS.
- QUANTITIES. PROVIDE WIRING AS SPECIFIED BY SYSTEM MANUFACTURER.

1. COORDINATE FINAL LOCATION OF POWER/AV DEVICES WITH TECHNOLOGY

2. AV DEVICES AND COVER PLATES SHALL BE PROVIDED BY TECHNOLOGY



RECESSED MOUNTED MONITOR WORKSTATION DETAIL • M1 NO SCALE

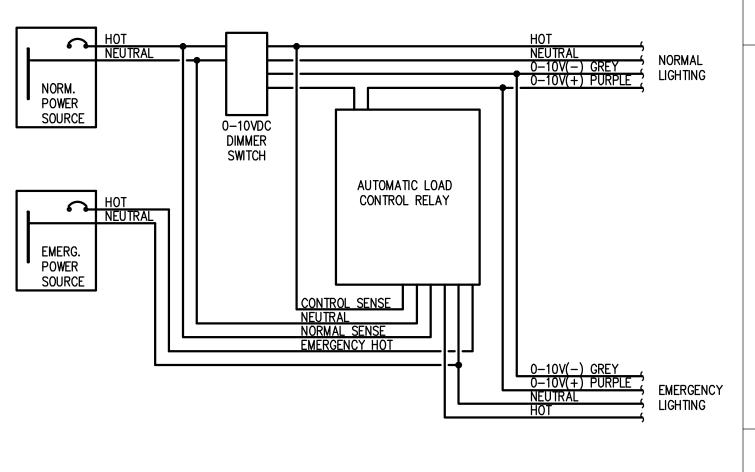
NOTES:

NOTES:

- 1. COORDINATE FINAL LOCATION OF POWER/AV DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
- 2. AV DEVICES AND COVER PLATES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.
- 3. ALL BLANK COVER PLATES SHALL BE STAINLESS STEEL.
- 4. PROVIDE WIREMOLD ON EXISTING WALLS.

FIRE ALARM RISER DIAGRAM

1. ADDRESSABLE INITIATING DEVICE LOOP (SIGNALING LINE CIRCUIT), CLASS B, STYLE 4 WIRING. INCLUDES MANUAL PULL STATIONS, SMOKE DETECTORS, THERMAL DETECTORS, WATER FLOW SWITCHES, TAMPER SWITCHES, ETC. SEE PLAN DRAWINGS FOR DEVICE LOCATIONS AND QUANTITIES. PROVIDE WIRING AS SPECIFIED BY SYSTEM 2. VISUAL NOTIFICATION APPLIANCE CIRCUIT, CLASS B, STYLE Y WIRING. SEE PLAN DRAWINGS FOR FOR DEVICE LOCATION AND QUANTITIES. PROVIDE WIRING AND NUMBER OF CIRCUITS AS REQUIRED BY SYSTEM MANUFACTURER BASED ON MANUFACTURERS CIRCUIT LOAD 3. AUDIBLE NOTIFICATION APPLIANCE CIRCUIT, CLASS B, STYLE Y WRING. SEE PLAN DRAWINGS FOR FOR DEVICE LOCATION AND



AUTOMATIC LOAD CONTROL RELAY FOR 0-10V DIMMING NO SCALE

1. BASIS OF DESIGN IS LVS CONTROLS EPC-2-D. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS. ADJUST WIRING AS NECESSARY FOR OTHER APPROVED MANUFACTURERS.

2. PROVIDE ONE AUTOMATIC LOAD CONTROL RELAY PER SWITCHING CIRCUIT.

