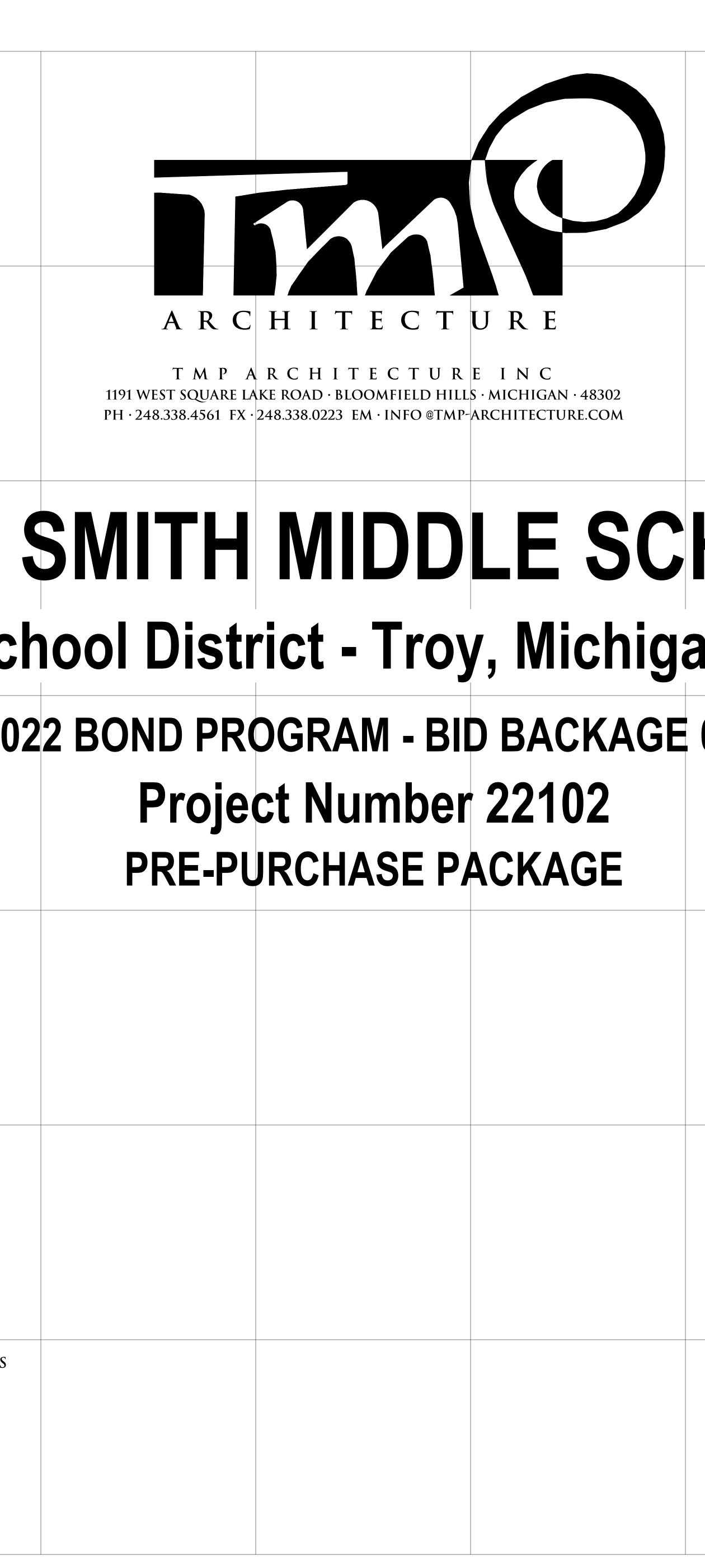
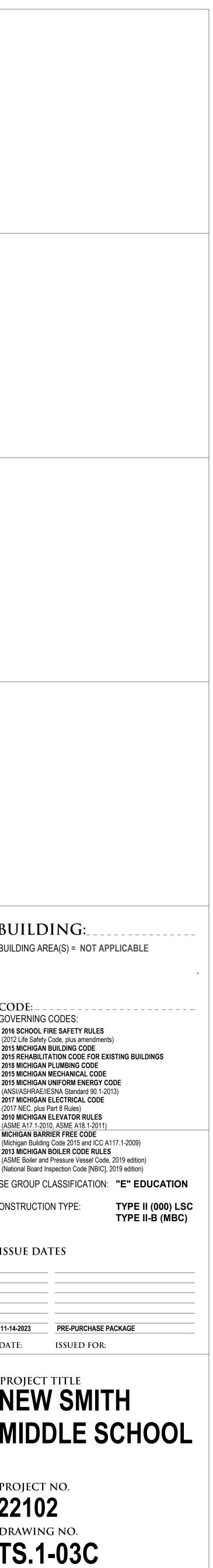
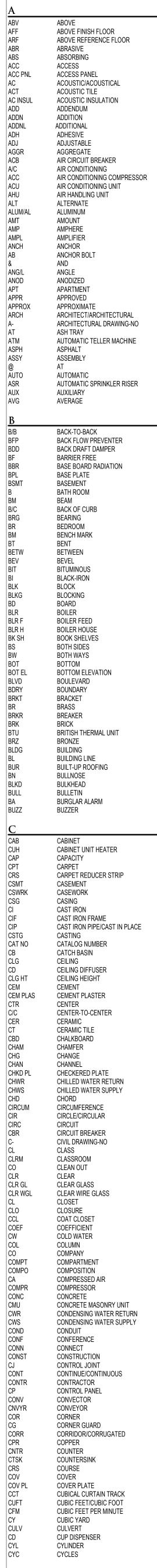
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CONSULTANTS: CIVIL ENGINEER PEA GROUP 1849 POND RUN AUBURN HILLS, MICHIGAN 48326 PHONE: (248) 689-9090 STRUCTURAL ENGINEER WILLIAM A. KIBBE & ASSOCIATES 1475 S. WASHINGTON AVE. SAGINAW, MICHIGAN 48601 PHONE: (989) 752-5000 FAX: (512) 752-5002 MECHANICAL ENGINEER PETER BASSO ASSOCIATES INC. 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48098-3276 PHONE: (248) 879-5666 FAX: (248) 879-0007 ELECTRICAL ENGINEER		<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
PETER BASSO ASSOCIATES INC. 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48098-3276 PHONE: (248) 879-5666 FAX: (248) 879-0007 UICENSEE'S STATEMENT: This Document has been prepared under the supervision of the firm of <u>TMP ARCHITECTURE. INC.</u> An original emboss: Architect is required and shall be affixed to any copy of this D approval or record. This is in conformance with the State of the Board of Architects. The Architect's seal provided hereon does not take responsil requiring the services of a licensed Professional Engineer or rubber stamp seal and original signature of the Professional this or other Document are listed above as Consultants.	ed or rubber stamp seal and original signature of the ocument submitted to a governmental agency for Michigan's PA 299, Article 20 and the General Rules of pility for certain portions of the Documentation or project other design professional. An original embossed or Engineer is required and shall be affixed to any copy of	REGISTRATION SEALS



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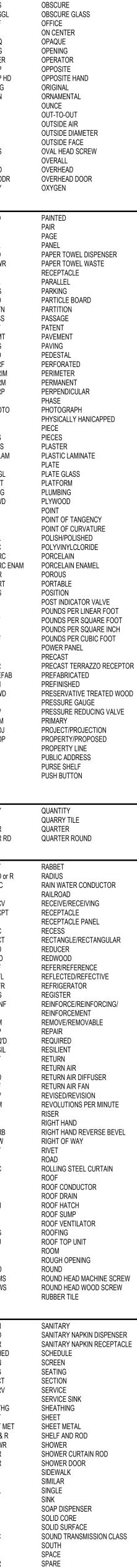


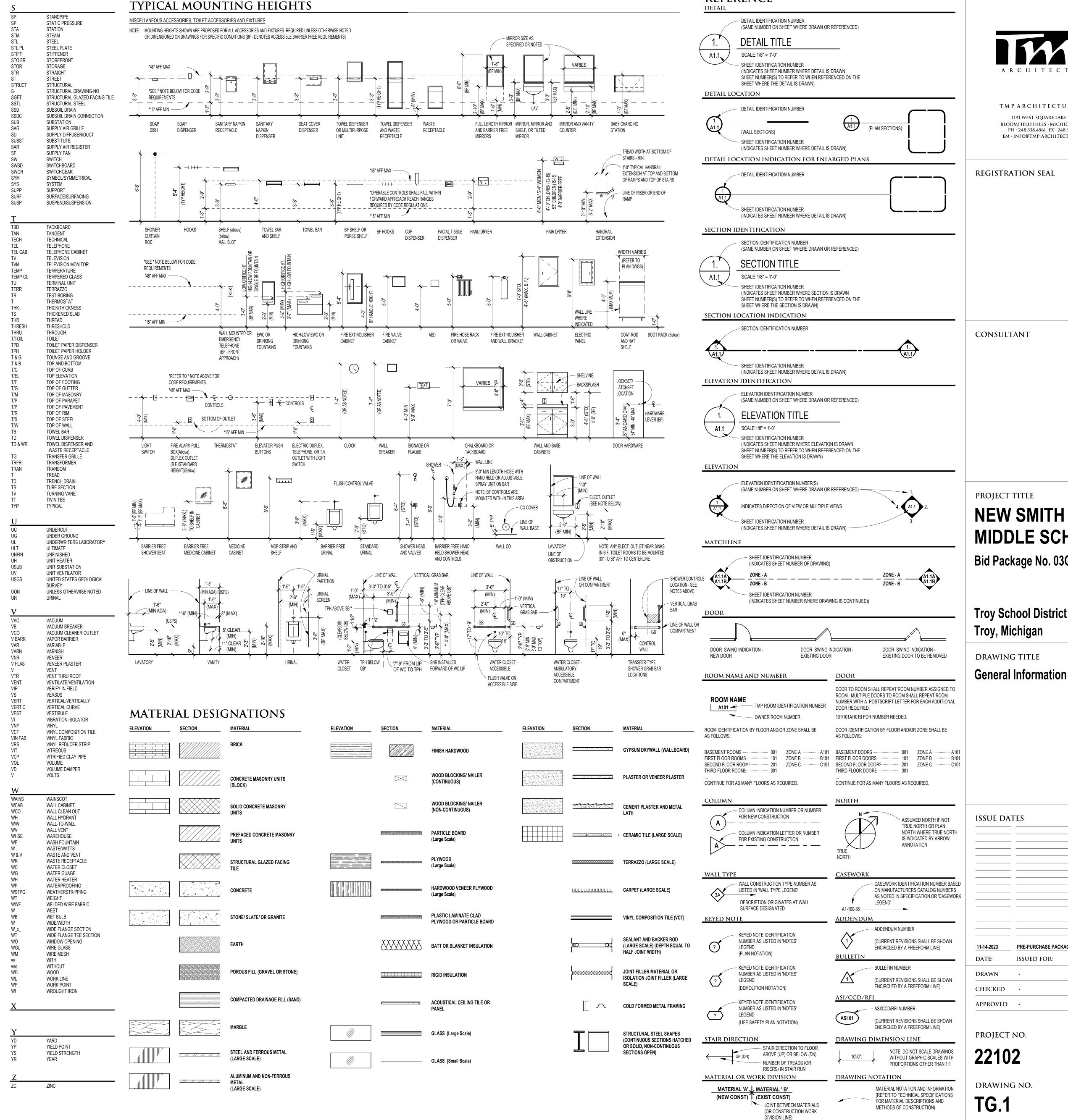
ABBREVIATIONS



D	
DMPR	DAMPER
DMPFG	DAMPPROOFING
DL	DEAD LOAD
DB	DECIBLE
D	DEEP
DGL	DOOR GLAZING
DWG	DRAWING
DMT PARTN	DEMOUNTABLE PARTITION
DEPT	DEPARTMENT
DEPR	DEPRESSED
DES	DESIGN
DET	DETAIL
DE CO	DETROIT EDISON COMPANY
DIAG	DIAGONAL
DGM	DIAGRAM
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DR	DINING ROOM
DIR	DIRECTORY
DISC	DISCONNECT
DISCONT	DISCONTINUOUS
DW	DISHWASHER
DISP	DISPENSER
DIST	DISTANCE
DP	DISTRIBUTION PANEL
DO	DITTO (DO OVER)
DIV	DIVIDER/DIVISION
DR	DOOR
DO DR OP	DOOR OPENING DOOR OPERATOR DOUBLE
DBL DA DH	DOUBLE ACTING DOUBLE HUNG
DWL	DOWEL
DN	DOWN
DS	DOWNSPOUT
DRN	DRAIN
DT	DRAIN TILE
DTC	DRAIN TILE CONNECTOR
DWR	DRAWER
DF	DRINKING FOUNTAIN
DB	DRY BULB
DSP	DRY STAND PIPE
DBWTR	DUMBWAITER
DUP	DUPLICATE
DDR	DUTCH DOOR
E EA EF	EACH EACH FACE
EW	EACH WAY
E	EAST
EIFS ELAST	EXTERIOR INSULATION FINISH SYSTEM ELASTOMERIC
ELAST FLASH	ELASTOMERIC FLASHING
ELAST WP	ELASTOMERIC WATERPROOFING
ESR	ELASTOMERIC SHEET ROOFING
ELEC	ELECTRIC/ELECTRICAL
ELEC CL	ELECTRICAL CLOSET
ELEC CAB	ELECTRICAL CABINET
EC	ELECTRICAL CONTRACTOR
E-	ELECTRICAL DRAWING-NO
EP	ELECTRICAL PANEL
EWC	ELECTRICAL WATER COOLER
ELEC OPER	ELECTRICALLY OPERATED
EL	ELEVATION
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
e/e	END-TO-END
Entr	ENTRANCE/ENTRY
Ep	EPOXY
EPDM EQ	ETHYLENE PROPYLENE DIENE MONOMER EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESC	ESCALATOR
EST	ESTIMATE
EXC	EXCAVATED
EXH	EXHAUST
ED	EXHAUST DUCT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXIST	EXISTING
EXP	EXPANSION
EXPB	EXPANSION BOLT
FI	
ej	EXPANSION JOINT
Explp	EXPLOSION PROOF
Exp'd	EXPOSED
EXPLP EXP'D EXT'N EXT EH	EXPLOSION PROOF
EXPLP EXP'D EXT'N EXT EH EXTR ESP	EXPLOSION PROOF EXPOSED EXTENSION EXTERIOR
EXPLP	EXPLOSION PROOF
EXP'D	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
EXPLP	EXPLOSION PROOF
EXP'D	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
FFIN	FACTORY FINISH
FCU	FAN COIL UNIT
FS	FAR SIDE
EXPLP	EXPLOSION PROOF
EXP'D	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
FFIN	FACTORY FINISH
FCU	FAN COIL UNIT
EXPLP	EXPLOSION PROOF
EXPD	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
FFIN	FACTORY FINISH
FCU	FAN COIL UNIT
FS	FAR SIDE
FAS	FASTENER
FDR	FEEDER
FT or '	FEET/FOOT
FPM	FEET PER MINUTE
FN	FENCE
EXPLP	EXPLOSION PROOF
EXPD	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
FFIN	FACTORY FINISH
FCU	FAN COIL UNIT
FS	FAR SIDE
FAS	FASTENER
FDR	FEEDER
FT or'	FEET/FOOT
FPM	FEET PER MINUTE
FN	FENCE
FBD	FOAM BOARD
FIG	FIGURE
FIN	FINISH/FINISHED
EXPLP	EXPLOSION PROOF
EXPD	EXPOSED
EXT'N	EXTENSION
EXT	EXTERIOR
EH	EXTRA HEAVY
EXTR	EXTRUDED
ESP	EXTERNAL STATIC PRESSURE
FAB	FABRICATED/FABRIC
F/F	FACE-TO-FACE
FFIN	FACTORY FINISH
FCU	FAN COIL UNIT
FS	FAR SIDE
FAS	FASTENER
FDR	FEEDER
FT or'	FEET/FOOT
FPM	FEET PER MINUTE
FN	FENCE
FBD	FOAM BOARD
FIG	FIGURE
FIN	FINISH/FINISHED
FIN FLR/FF	FINISHED FLOOR
FTR	FINNED TUBE RADIATION
FA	FIRE ALARM
EXPLP EXP'D EXT'N EXT EH EXTR ESP FAB F/F FFIN FCU FS FAS FDR FT or' FPM FN FBD FIG FIN FIN FLR/FF FTR FA FACP F BRK FD	EXPLOSION PROOF EXPOSED EXTENSION EXTERIOR EXTRA HEAVY EXTRUDED EXTERNAL STATIC PRESSURE FABRICATED/FABRIC FACE-TO-FACE FACTORY FINISH FAN COIL UNIT FAR SIDE FASTENER FEEDER FEET/FOOT FEET PER MINUTE FENCE FOAM BOARD FIGURE FINISH/FINISHED FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINNED TUBE RADIATION FIRE ALARM FIRE ALARM FIRE ALARM CONTROL PANEL FIRE BRICK FIRE DAMPER
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H HNDCP	HANDICAPPED	O OBS
HR HBD	HANDRAIL HARDBOARD	OBSGL OFF
HDWE HDWD HD	HARDWARE HARDWOOD HEAD	OC OPQ OPG
HDR HA GL	HEADER HEAT ABSORBING GLASS	OPER OPP
HRU HTR	HEAT RECOVERY UNIT HEATER	opp he Orig
HTG H/V	HEATING HEATING AND VENTILATING	ORN OZ
HVAC	HEATING, VENTILATING AND AIR CONDITIONING HEATING HOT WATER RETURN	O/O OA OD
HWS HGT	HEATING HOT WATER RETORN HEATING HOT WATER SUPPLY HEIGHT	OF OHS
HEX H	HEXAGON HIGH	OA OHD
HD HP	HIGH INTENSITY DISCHARGE HIGH POINT	OHDDR OXY
HPR HS	HIGH PRESSURE HIGH STRENGTH	Р
HSB HV HWY	HIGH STRENGTH BOLT HIGH VOLTAGE HIGHWAY	PTD PR
HSTWY HC	HOISTWAY HOLLOW CORE	PG PNL PTD
HM HNYCB	HOLLOW METAL HONEYCOMB	PTWR
HK HORIZ	HOOK HORIZONTAL	PRL PKG
HP HB	HORSEPOWER HOSE BIBB	PBD PRTN
HSP HVC HOSP	HOSE STAND PIPE HOSE VALVE CABINET HOSPITAL	PASS PAT
HW HWR	HOT WATER HOT WATER RETURN	PVMT PVG PED
HWS HR	HOT WATER SUPPLY HOUR	PERF
HO HYD	HUB OUTLET HYDRANT/HYDRAULIC	PERM
l T	HYDROGEN	p Photo
D	IDENTIFICATION	PH PC
NCAND N OR "	INCANDESCENT INCH/INCHES INCINERATOR	PCS PLAS PL LAM
NCIN NCL W	INCLUDE / INCLUDING INDIRECT WASTE	PL CAM PL PL GL
NFO D	INFORMATION INSIDE DIAMETER	PLAT PLBG
F NST'L	INSIDE FACE INSTALL/INSTALLATION	PLWD PT
NSUL NT	INSULATE/INSULATION INTERIOR	PT PC
NTER NV	INTERMEDIATE INVERT	POL PVC
E	INVERT ELEVATION	PORC PORC E POR
IC IT	JANITOR CLOSET JOINT	PORT POS
IST IB	JUNCTION BOX	PIV PLF
IR V	JUNIOR	PSF PSI
K (P	KICK PLATE	PCF PP
KV KVA	KILOVOLT KILOVOLT AMHERE	P/C PTR PREFAI
KW K KIT	KILOWATT KIP (100#) KITCHEN	PFN PFN PTWD
KS KD	KNEE SPACE KNOCK DOWN	PG PRV
KOP	KNOCK-OUT PANEL	PRIM PROJ
LBL	LABEL	PROP PL PA
_AB _AD _B	LABORATORY LADDER LAG BOLT	PS PB
_AM _DG	LAMINATE/LAMINATED	
 _GE	LANDSCAPE DRAWING-NO LARGE	Q QTY
_DRY _AV	LAUNDRY LAVATORY	QT QTR QTR RE
_H _HRB _GTH	LEFT HAND LEFT HAND REVERSE BEVEL LENGTH	R
_EV _IB	LEVEL LIBRARY	RBT RAD or
_T _PRF	LIGHT LIGHTPROOF	RWC RR
_TG _P	LIGHTING LIGHTING PANEL	RECV RECPT
_RP _TWT	LIGHTING RECEPTACLE PANEL LIGHTWEIGHT	RP REC RECT
_TWT CONC _MS _TL	LIGHTWEIGHT CONCRETE LIMESTONE LINTEL	RED RWD
_IN DIFF _F	LINTEL LINEAR DIFFUSER LINEAR FEET/FOOT	REF REFL
_IN SD _IQ	LINEAR SLOT DRAIN	REFR REG
_PG _PG	LIQUID PROPANE GAS LIQUID PETROLEUMM GAS	REINF
_L _R	LIVE LOAD LIVING ROOM	REM REP
LOC LKR	LOCATION	REQ'D RESIL RET
_G _LH _LV	LONG LONG LEG HORIZONTAL LONG LEG VERTICAL	PA RAD
_VR _O	LOUVER LOUVER OPENING	RAF REV
_P _PR	LOW POINT LOW PRESSURE	RPM R
_BR _BS OR #	LUMBER POUNDS	RH RHRB
M MACH	MACHINE	ROW RVT RD
MB MACH RM	MACHINE BOLT MACHINE ROOM	RSC RF
MAU MDP	MAKE-UP AIR UNIT MAIN DISTRIBUTION PANEL	RC RD
MSB MAINT MH	MAIN SWITCH BOARD MAINTENANCE MANHOLE	RFH RS RV
MFR MFR MAR	MANNOLE MANUFACTURER MARBLE	RFG RTU
MK MK MAS	MARK MASONRY	RM RO
MO MATL	MASONRY OPENING MATERIAL	RND RHMS
MAX MECH	MAXIMUM MECHANICAL	RHWS RT
M- MC	MECHANICAL DRAWING-NO MEDICINE CABINET	S
MED MEMB MET	MEDIUM MEMBRANE METAL	SAN SND SNR
MDS MES	METAL DIVIDER STRIP METAL EDGE STRIP	SNR SCHED SCN
ML ML & PLAS	METAL LATH METAL LATH AND PLASTER	STG SECT
MT MET WP	METAL THRESHOLD METALLIC WATERPROOFING	SERV SS
MEZZ MDOT	MEZZANINE MICHIGAN DEPARTMENT OF TRANSPORTATION	SHTHG SHT
MWK MIN	TRANSPORTATION MILLWORK MINIMUM	SHT ME SH & R SHWR
MIR M&S	MIRNOR MIRROR MIRROR AND SHELF	SHWR SCR SDR
MOD MLDG	MOTOR OPERATED DAMPER MOULDING	SDR SW SIM
MTD MTG	MOUNTED MEETING/MOUNTING	SGL SK
MOV MOV PARTN MULL	MOVEABLE MOVEABLE PARTITION MULLION	SD SC
MULL M	MULLION THOUSAND (1000)	SS STC S
N NAT	ΝΔΤΙΙΡΔΙ	S SP SPR
NAT NS NEUT	NATURAL NEAR SIDE NEUTRAL	SPKR SPEC
NRC NOM	NOISE REDUCTION COEFFICIENT NOMINAL	SD SPRYD
NOR	NORMAL NORTH	SPKLR SQ SE
NOS NIC	NOSING	SF
170	NOT-IN-CONTRACT	STAG
NTS NO OR #		STAG STSTL STD





SPEAKER

SPRAYED

SQUARE

SPRINKLER

STAGGERED STAINLESS STEEL

STANDARD

SPECIFICATIONS

SPLITTER DAMPER

REFERENCE





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4-2023	PRE-PURCHASE PACKAGE
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PROJECT TITLE NEW SMITH MIDDLE SCHOOL Bid Package No. 03C

CONSULTANT

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	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION	<u>SY</u>
X (NL)	X DENOTES FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	
	LIGHTING FIXTURE	TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER	/
	DIRECT/INDIRECT LIGHTING FIXTURE	TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL	N
/•	FILL DENOTES EMERGENCY LIGHTING FIXTURE	TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP	
	LIGHTING FIXTURE	TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP	
е / / Ю	WALL MOUNTED LIGHTING FIXTURE			
0/□	LIGHTING FIXTURE	RGP ATS	REMOTE GENERATOR ANNUNCIATOR PANEL	
(\bigcirc / \square)	RECESSED OR SURFACE MOUNTED	UPS	UNINTERRUPTIBLE POWER SUPPLY	
,	DIRECTIONAL LIGHTING FIXTURE	CSX	LOW VOLTAGE CONTROL STATION	
Ō	PENDANT LIGHTING FIXTURE WALL SCONCE		"X" INDICATES TYPE SINGLE / DUPLEX RECEPTACLE OUTLET	
	LIGHTING TRACK	Φ / Φ _{"X"}	"X" INDICATES TYPE SINGLE / DUPLEX RECEPTACLE OUTLET CONTROLLED	
∇	TRACK LIGHTING FIXTURE	ዋ/ዋ	BY AUTOMATIC CONTROL DEVICE / SYSTEM	
●[]	POLE MOUNTED LIGHTING FIXTURE	8	QUAD RECEPTACLE OUTLET	
	POLE MOUNTED LIGHTING FIXTURE - POST TOP	+	ABOVE COUNTER DUPLEX RECEPTACLE OUTLET (SIMILAR FOR TAMPER RESISTANT, CONTROLLED, QUAD	
	BOLLARD LIGHTING FIXTURE	.11.	ÈMERGENCY, UPS, USB, AND GFCI RECEPTACLE OUTLE	15) F
\square	EMERGENCY LIGHTING UNIT	ф	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET	
×	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)		DEAD FRONT GROUND FAULT CIRCUIT INTERRUPTER	
∱ ;€	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	\$	DUPLEX EMERGENCY RECEPTACLE OUTLET	
HXX _	EXIT LIGHTING FIXTURE - WALL MOUNTED	\diamond	DUPLEX TAMPER RESISTANT RECEPTACLE OUTLET	
HACK I	EXIT/EMERGENCY LIGHTING COMBO	₼	QUAD TAMPER RESISTANT RECEPTACLE OUTLET	,
ALCR	AUTOMATIC LOAD CONTROL RELAY	*	QUAD TAMPER RESISTANT RECEPTAGLE OUTLET	(
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	4	DUPLEX UPS RECEPTACLE OUTLET	•
LC	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE	\$	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS	
(XX)	ROOM CONTROL DESIGNATION - REFER TO	٩F	USB 4 PORT CHARGING STATION	•
S	LIGHTING CONTROL SCHEDULE SINGLE POLE TOGGLE SWITCH	⊕ / ⊛	CEILING MOUNTED DUPLEX / QUAD RECEPTACLE OUTLE	T (
\$2	TWO POLE TOGGLE SWITCH	φφφ	MULTI-OUTLET SURFACE RACEWAY	
\$3	3 WAY TOGGLE SWITCH			⊢1
S4	4 WAY TOGGLE SWITCH		POWER POLE	-TI
K	KEY OPERATED SWITCH	[∞]/	WALL / CEILING MOUNTED SPECIAL RECEPTACLE OUTLET - REFER TO ELECTRICAL STANDARD SCHEDULE	
K3	3 WAY KEY OPERATED SWITCH	• • **	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET	(
K4 D	4 WAY KEY OPERATED SWITCH DIMMER SWITCH	Τ "X"	"X" INDICATES TYPE	Ц
Do	DIMMER OCCUPANCY SENSOR SWITCH	PTX	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE	, ,]
DL	LOW VOLTAGE DIMMER SWITCH	FBX	FLOOR SERVICE FITTING "X" INDICATES TYPE	L
D3	3 WAY DIMMER SWITCH	AFX	ACCESS FLOOR SERVICE FITTING	
SP	PILOT SWITCH		"X" INDICATES TYPE CORD REEL	
51		RX	"X" INDICATES TYPE	

\$3\$3

\$4\$4

Sт

SO

SO2

os _x

OF FLUORESCENT LIGHT FIXTURES

DIGITAL TIME SWITCH

SWITCH IS IN "OFF" POSITION

LOW VOLTAGE SWITCH

OCCUPANCY SENSOR

3-WAY DUAL SWITCHING FOR INNER/OUTER

LAMPS OF FLUORESCENT LIGHT FIXTURES

4-WAY DUAL SWITCHING FOR INNER/OUTER

ILLUMINATED TOGGLE SWITCH FOR CONTROL OF

OCCUPANCY SENSOR - REFER TO ELECTRICAL

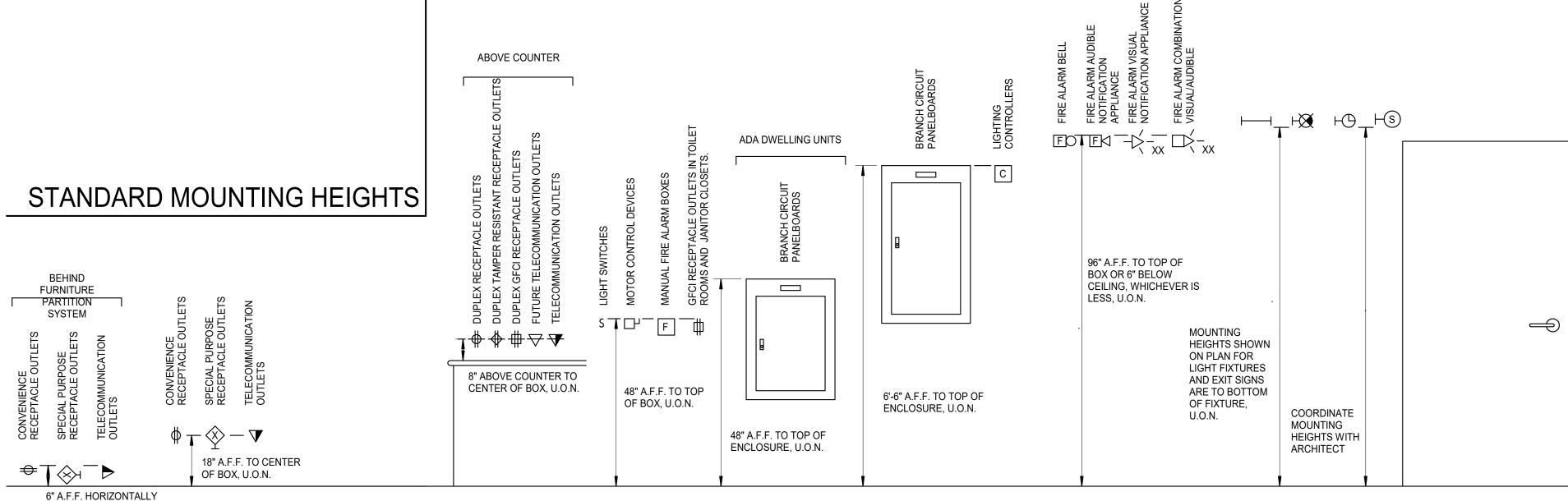
OCCUPANCY SENSOR - REFER TO ELECTRICAL

STANDARD SCHEDULES - "X" INDICATES TYPE

STANDARD SCHEDULE

LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN

LAMPS OF FLUORESCENT LIGHT FIXTURES



TO TOP OF BOX, U.O.N.

EVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.)	

<u>SYMBOL</u>	DESCRIPTION	<u>SYMBOL</u>
CP	CONTROL PANEL	
\mathcal{N}	MOTOR	MD
VFC	VARIABLE FREQUENCY CONTROLLER	ĸ
	MANUAL CONTROLLER	DC
\boxtimes	MAGNETIC CONTROLLER	KP
$\boxtimes^{\!$	COMBINATION MAGNETIC CONTROLLER	CR
C	NON-FUSIBLE DISCONNECT SWITCH	DB
	FUSIBLE DISCONNECT SWITCH	DE
СВЧ	ENCLOSED CIRCUIT BREAKER	REX
	PUSH BUTTON STATION	PP
(\mathbf{J})	JUNCTION BOX	DO
lacksquare	HARD WIRE POWER CONNECTION	DA
۲	GROUND ROD	
	GROUND CONNECTION	ACCP
НН	HANDHOLE	ACPS
) — x	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE	٦) أر
o	CONDUIT UP	ر پ
•	CONDUIT DOWN	©)
\triangleleft	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET	ţ
\triangleleft	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET MOUNTED 8" ABOVE COUNTERTOP	°/ ۱۹۰۱
\bigcirc	EMPTY BOX FOR FUTURE CEILING MOUNTEDTYTELECOMMUNICATION OUTLETTELECOMMUNICATION OUTLET"X" INDICATES TYPEDIATON OUTLET MOUNTED8" ABOVE COUNTERTOPHILL"X" INDICATES TYPEHILL"X" INDICATES TYPEHILL	
\triangleleft_{x}	TELECOMMUNICATION OUTLET 비 것 "X" INDICATES TYPE 비 요구	ů m
₄x	TELECOMMUNICATION OUTLET MOUNTED Image: Constraint of the second sec	_} }{
	TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE	→ • - ·
	TELECOMMUNICATION BACKBOARD	x
⊢т <u></u> в –	TELECOMMUNICATION GROUNDING BUS BAR	Ţ
HTMGB -	TELECOMMUNICATION MAIN GROUNDING BUS BAR	¥
	INTERCOM OUTLET	К
(s)	SPEAKER	G
H(s)	SPEAKER - WALL MOUNTED	(M)
MIC	MICROPHONE	EMU
	VOLUME CONTROL	A
BD T	SIGNALING BELL	\heartsuit
G	SINGLE FACE CLOCK - CEILING MOUNTED	AS
ю	SINGLE FACE CLOCK - WALL MOUNTED	VS
	DOUBLE FACE CLOCK - CEILING MOUNTED	SPD (CR)
(S) (D)	DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED	PRM
HG G	DOUBLE FACE CLOCK - WALL MOUNTED	$\textcircled{\bullet}$
LS LS	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED	\bigcirc
1/2	TIME CLOCK	
C	CONTACTOR	
P	PHOTOCELL	
	TWIST TIMER	• <u></u> \ <u>+</u> •
EVSE	ELECTRICAL VEHICLE SUPPLY EQUIPMENT	° °
DCFC	DC FAST CHARGER - STANDALONE	
DCPM	DC FAST CHARGER - POWER MODULE	о _{х-х}
DCDP	DC FAST CHARGER - DISPENSER	

DESCRIPTION	
SECURITY CAMERA	F
MOTION DETECTOR	SD
SECURITY KEY SWITCH	DD
DOOR CONTACT	CO
KEY PAD	RT
CARD READER	TD
DURESS PUSH BUTTON STATION	BD
DELAYED EGRESS	Ē
REQUEST TO EXIT STATION	EK
AUTOMATIC DOOR PUSH PAD OPERATOR	<u> </u>
DOOR OPERATOR	5
DOOR ACTUATOR	Ľ
ACCESS CONTROL STATION	、
ACCESS CONTROL CONTROL PANEL	-F
ACCESS CONTROL POWER SUPPLY	,
CIRCUIT BREAKER	
DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED	F
	◀
DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED	FACE
SWITCH	FAA
AUTOMATIC OR MANUAL	NAC
TRANSFER SWITCH	IM
FUSE	СМ
TRANSFORMER	TS
CURRENT TRANSFORMER	FS
POTENTIAL TRANSFORMER	DR
LIGHTNING ARRESTOR	
PANELBOARD "X" INDICATES PANELBOARD NAME	
GROUND	
STRESS CONE TERMINATION	Т
SECURITY KEY INTERLOCK	
ENGINE GENERATOR	⊢gb-
UTILITY METER	⊢-РВ
ELECTRONIC METERING UNIT	, ⊢_FB -
AMMETER	
VOLTMETER	
AMMETER SWITCH	
VOLTMETER SWITCH	
SURGE PROTECTIVE DEVICE	
CONTROL RELAY	
PHASE ROTATION MONITOR	
CAMLOK - MALE	
CAMLOK - FEMALE	
TIME DELAY RELAY	
THERMAL OVERLOAD RELAY	
NORMALLY OPEN CONTACTS	
NORMALLY CLOSED CONTACTS	
N.O. PUSH BUTTON SINGLE CIRCUIT	
N.C. PUSH BUTTON SINGLE CIRCUIT	
CABLE VAULT	
"X-X" INDICATES TYPE	

	SYMBOL 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
	PROJECTED BEAM DETECTOR
FO	FIRE ALARM BELL
ΕK	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
DR −b, - _{XX}	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
	FIRE ALARM COMBINATION VISUAL/ AUDIBLE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
-È, 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 PANE
IM	ADDRESSABLE MONITORING MODULE
СМ	ADDRESSABLE CONTROL MODULE
TS	TAMPER SWITCH
FS	FLOW SWITCH
DR	MAGNETIC DOOR RELEASE
	BRANCH CIRCUIT PANEL BOARD
4	LOAD CENTER
	MOTOR CONTROL CENTER
Т	TRANSFORMER
	DISTRIBUTION PANEL
⊢gb⊣	ELECTRICAL GROUNDING BUS BAR
┝─₽В╶─┤	PLUG IN BUSWAY
├── FB ──	FEEDER BUSWAY

HV

ΗZ

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ELECTRICAL DRAWING INDEX

<u>SHEET NO.</u> E0.1 E5.1

SHEET TITLE ELECTRICAL STANDARDS AND DRAWING INDEX ONE LINE DIAGRAM

ELECTRICAL ABBREVIATION LIST

ABBREVIATION DESCRIPTION AMPERES ARC ENERGY REDUCTION AMPERES FRAME (BREAKER RATING) KA ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISH FLOOR AMPS INTERRUPTING CAPACITY AUDIENCE LEFT AUTOMATIC LOAD CONTROL RELAY ALCR AUDIENCE RIGHT AMPERES TRIP (BREAKER SETTING) AUTOMATIC TRANSFER SWITCH AUXILIARY BCELTS BRANCH CIRCUIT EMERGENCY LIGHTING MCA TRANSFER SWITCH BREAKER BOLTED PRESSURE SWITCH CONDUIT CIRCUIT BREAKER CIRCUIT CURRENT TRANSFORMER DEMO DIM DEMOLITION DIMENSION DISCONNECT DISTRIBUTION PANEL DOWNSTAGE DRAWING EMERGENCY BATTERY UNIT ELECTRICAL CONTRACTOR ELECTRONICALLY COMMUTATED MOTOR NO ELECTRICAL EM/ EMERG EMERGENCY ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EMERGENCY POWER OFF ELECTRIC WATER COOLER EXISTING FIRE ALARM FULL LOAD AMPS FLOOR

FRONT OF HOUSE FOOD SERVICE EQUIPMENT CONTRACTOR FUSE

GROUND GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION

HAND-OFF-AUTO HORSEPOWER HIGH VOLTAGE HERTZ

ISOLATED GROUND

JUNCTION BOX PB THOUSAND AMP KILOVOLT **KILOVOLT - AMPERES** KILOWATT KILOWATT - HOURS LIGHTING ARRESTOR LIGHTING PANEL LIGHTING DISTRIBUTION PANEL MAXIMUM MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MECHANICAL MINIMUM MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION TR MOUNTED MOUNTING MOTOR NEUTRAL NORMALLY CLOSED NATIONAL ELECTRICAL CODE NON-FUSIBLE NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE ON CENTER OWNER FURNISHED,

ABBREVIATION DESCRIPTION

KV

KVA

KW

LA

LP

LDP

MAX

MCB

MCC MDP

MECH

MIN

MISC

MLO

MOP

MTD

MTG MTR

NC

NEC

NTS

00

OFCI

OFOI

KWH

RDP RP RSC SCCR SCHED SPD SW SWBD SWGR TTP TYP U.O.N. US V WAP WG WP WR XFMR

CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED

E7.1

SHEET E1.0 SHEET E1.1

E3.1

TELECOM XP

PH PT PDP RECEPT.

ABBREVIATION DESCRIPTION

POLE

PHASE

RECEPTACLE

SCHEDULE

SWITCH

TYPICAL

UPSTAGE

WIRE OR WATTS

WEATHERPROOF

WEATHER RESISTANT

WIRE GUARD

VOLTS

SHUNT TRIP

SWITCHBOARD

SWITCHGEAR

TERMINAL BOX

TELECOMMUNICATIONS

UNLESS OTHERWISE NOTED

WIRELESS ACCESS POINT

TELEPHONE TERMINAL BACKBOARD

TAMPER RESISTANT

RECEPTACLE PANEL

RIGID STEEL CONDUIT

PUSHBUTTON STATION

POTENTIAL TRANSFORMER

POWER DISTRIBUTION PANEL

RECEPTACLE DISTRIBUTION PANEL

SHORT CIRCUIT CURRENT RATING

SURGE PROTECTION DEVICE

TRANSFORMER EXPLOSION PROOF EXISTING RELOCATED

STANDARD METHODS OF NOTATION - CONSTRUCTION KEY NOTE (NUMBER) OR

DEMOLITION KEY NOTE (LETTER) EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1) - FOOD SERVICE EQUIPMENT TAG

- SHEET ON WHICH SECTION IS DRAWN - AREA OF ENLARGEMENT

PLAN NUMBER

— SECTION NUMBER

E6.1 SHEET ON WHICH ENLARGED PLAN IS DRAWN — SECTION OR PLAN NUMBER

SECTION OR ENLARGED PLAN SCALE: 1/8" = 1' - 0" - SHEET ON WHICH SECTION IS DRAWN

(ENLARGED PARTIAL PLAN SIMILAR) MATCH LINE

HEAVY LINE WEIGHT INDICATES NEW WORK LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION GRAY LINE INDICATES BACKGROUND INFORMATION

THIN GRAY LINE INDICATES CEILING GRID

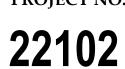
DASHED LINES INDICATE CONDUIT ROUTED IN OR BELOW SLAB OR GRADE

HATCH MARKS INDICATE EQUIPMENT OR MATERIALS TO BE DISCONNECTED AND REMOVED.

CIRCUIT HOMERUN

DUCT BANK - CONCRETE ENCASED / DIRECT BURIED • IN USE • SPARE





PROJECT NO.

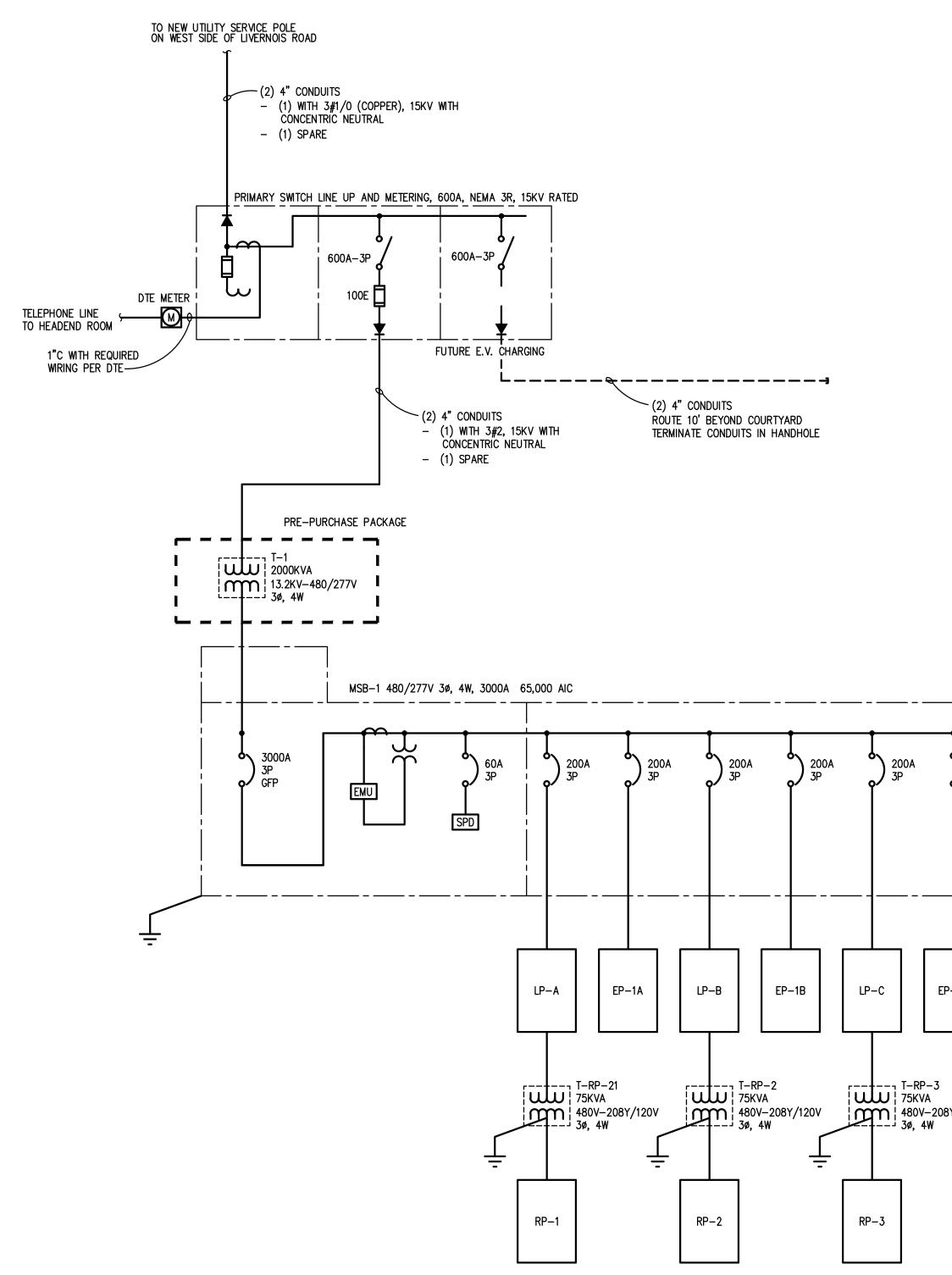
DRAWING TITLE

ELECTRICAL STANDARDS

AND DRAWING INDEX

ISSUE DAT	ΓES
11-14-2023	PRE-PURCHASE PACKAGE
DATE:	ISSUED FOR:
DRAWN	BAG
CHECKED	BAG
APPROVED	STP





CONNECTED PRIMARY LOAD CALCULATIONS

CONNECTED LOAD CALCULATION

XFMR T1: MSB XFMR T2: FUTURE E.V. CHARGING TOTAL CONNECTED PRIMARY LOAD

100 KVA XXXX KVA

XXXX KVA

XX KVA LP-A EP-1A XX KVA LP-B XX KVA EP-1B XX KVA LP-C XX KVA EP-1C XX KVA LP-D XX KVA EP-1D XX KVA LP-2A XX KVA XX KVA EP-2A LP-EM XX KVA PP-SB XX KVA TOTAL CONNECTED LOAD XXX KVA

NOTE: REFER TO E0.2 FOR FEEDERS AND BRANCH CIRCUIT SIZES, MOTOR STARTER SIZES, VOLTAGE DROP AND TRANSFORMER CIRCUIT SIZES.

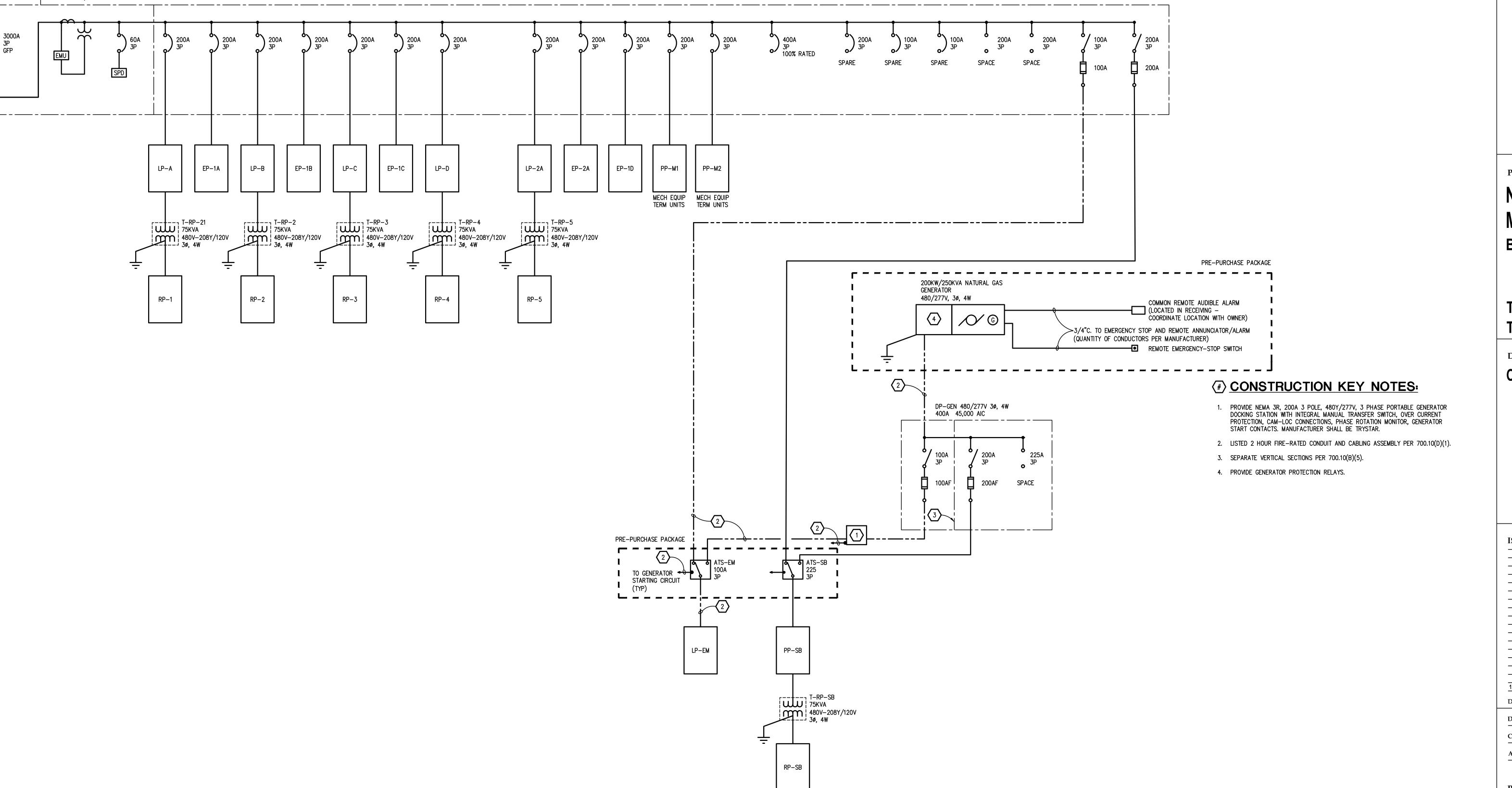


DIAGRAM GENERAL NOTES

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- 2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE -3 "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE. 5. BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER
- SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.
- 6. SELECTIVE COORDINATION (PER NEC ARTICLES 517.31(G), 700.32 AND 701.27) IS BASED ON SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RECEIVE APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3-CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

