Oak Brook Park District

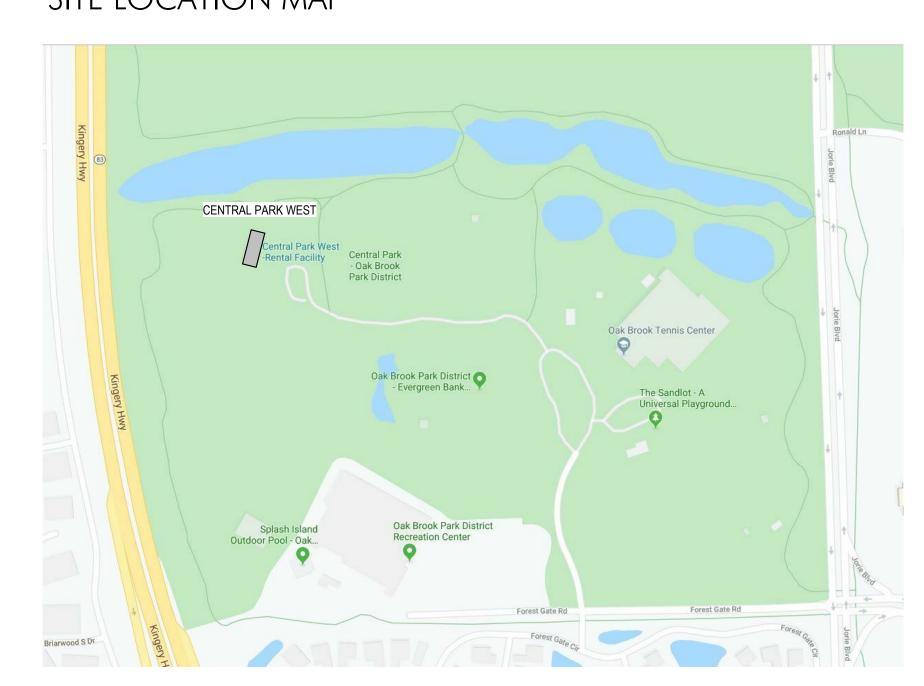
CENTRAL PARK WEST MECHANICAL RENOVATIONS

1500 Forest Gate Road

Oak Brook, IL 60523



SITE LOCATION MAP



LEGATARCHITECTS

DESIGN | PERFORMANCE | SUSTAINABILITY

BOARD OF COMMISSIONERS

SHARON KNITTER, President TOM TRUEDSON, Vice President LARA SULEIMAN, Commissioner FRANK TROMBETTA, Commissioner KEVIN TRAN, Treasurer RELEASE

ISSUED FOR BIDDING

DATE OF ISSUE

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ARCHITECT'S PROJECT NUMBER

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220005.00

SCHEDOLL OF DIVIVITY

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A-101.1 INTERIOR DEMOLITION AND NEW ELEVATIONS, DEMO AND NEW WALL SECTIONS A-102.1 INTERIOR DEMOLITION AND NEW ELEVATIONS

MECHANICAL DRAWINGS

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M-300 HVAC SPECIFICATIONS, ABBREV., & DETAILS

SCHEDULE OF DRAWINGS

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LEGATARCHITECT

Oak Brook

Park District

CENTRAL PARK

MECHANICAL

RENOVATIONS

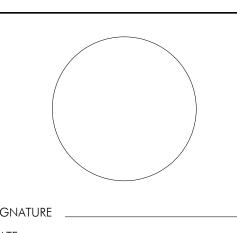
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TITLE SHEET

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ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS	
ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION
'C	AIR CONDITIONING	EP	ELECTRICAL PANEL	MD	MASONRY DIMENSION	RO	ROUGH OPENING
BV	ABOVE	EQ	EQUAL	MDF	MEDIUM DENSITY FIBERBOARD	ROW	RIGHT OF WAY
2	ARCHTECTURAL CONCRETE	EWC	ELECTRIC WATER COOLER	MECH	MECHANICAL	RP	RESIN PANEL
CM	ALUMINUM COMPOSITE MATERIAL	EWS	EYE WASH STATION	MED	MEDIUM	RSE	ROLLER SHADE - MOTORIZED
CT	ACOUSTIC CEILING TILE	EX / EXIST	EXISTING	MEZZ	MEZZANINE	RSES	SKYLIGHT ROLLER SHADE - MOTORIZED
DA DJ	AMERICANS WITH DISABILITIES ACT ADJACENT	EXP EXR	EXPOSED EXISTING TO REMAIN	MFR / MANUF	MANUFACTURER MANHOLE	RSL RSR	ROLLER SHADE LEFT CONTROL ROLLER SHADE RIGHT CONTROL
00	AUTOMATIC DOOR OPENER	F	FLUSH DOOR	MIN	MINIMUM / MINUTE	RT	RESILIENT TRANSITION
OOP	AUTOMATIC DOOR OPENER ON PEDESTAL	F/	FACE OF	MISC	MISCELLANEOUS	RTU	ROOF TOP UNIT
EC	ARCHITECTURALLY EXPOSED CONCRETE	FAAP	FIRE ALARM SYSTEM ANNUNCIATOR PANEL	ML	MATCH LINE	RUBR	RUBBER
D	AUTOMATED EXTERNAL DEFIBRILLATOR	FAB	FABRIC	MO	MASONRY OPENING	SC	SHOWER CURTAIN
ESS F	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL ABOVE FINISHED FLOOR	FACP FAP-X	FIRE ALARM CONTROL PANEL FABRIC WRAPPED ACOUSTIC PANEL - (X =	MP MST	METAL PANEL MOSAIC TILE	SD SECT	SOAP DISPENSER SECTION
-r -lU	AIR HANDLING UNIT	FAP-A	THICKNESS OF THE PANEL)	MSTB	MOSAIC TILE BASE	SHT	SHEET
B	AIR INFILTRATION BARRIER	FB	FACE BRICK	MT	METAL TRANSITION	SIM	SIMILAR
.T	ALTERNATE	FBN	FLIP BENCH	MTD	MOUNTED	SND	SANITARY NAPKIN DISPOSAL
LUM / AL	ALUMINUM	FBO	FURNISHED BY OWNER	MTL	METAL	SNV	SANITARY NAPKIN VENDOR
NOD	ANODIZED	FCO FD	FLOOR CLEAN OUT FLOOR DRAIN	MU	MECHANICAL UNIT	SPEC	SPECIFICATION
DR D	AREA OF REFUGE ACCESS PANEL	FE	FIRE EXTINGUISHER	MWL MWL	MICROWAVE METAL WARDROBE LOCKER	SPM SQ	SINGLE PLY MEMBRANE SQUARE
PROX	APPROXIMATELY	FEC	FIRE EXTINGUISHER CABINET	MX	MAILBOX UNIT	SS / ST STL	STAINLESS STEEL
RA	AREA OF RESCUE ASSISTANCE	FECB	FIRE EXTINGUISHER, CABINET AND BLANKET	NC NC	NOISE CRITERIA	SSF	SOLID SURFACE
RCH	ARCHITECTURAL	FF	FACTORY FINISH	NIC	NOT IN CONTRACT	SSG	SILICONE STRUCTURAL GLAZING
3	ACOUSTICAL SEALANT	FG 2	FULL GLASS DOOR	NL 	NARROW LIGHT DOOR	ST	SEALANT TAPE
SH	ADJUSTABLE SHOWER HEAD	FG-2 FH	FULL GLASS DOOR - PAIR FULL HEIGHT	NLR	NARROW LIGHT DOOR - RATED DAIR	ST	STEEL SOLIND TRANSMISSION COFFFICIENT
VP	ACOUSTIC WALL PANEL BASE CABINET	FL	FLUSH LOUVER DOOR	NLR-2 NO	NARROW LIGHT DOOR - RATED PAIR NUMBER	STC STD	SOUND TRANSMISSION COEFFICIENT STANDARD
	BOTTOM OF	FL-2	FLUSH LOUVER DOOR - PAIR	NOM	NOMINAL	STI	STEEL
BT	BIO-BASED TILE	FLR	FLOOR	NTS	NOT TO SCALE	STOR	STORAGE
)	BOARD	FOF	FACE OF FOUNDATION	OA	OVERALL	STRUCT	STRUCTURAL
	BOTTLE FILLER	FOM	FACE OF MASONRY	OC	ON CENTER	STT	STONE THRESHOLD
.K	BLOCKING	FOS FOW	FACE OF STUD FACE OF WALL	OCD	OVERHEAD COILING DOOR	STV	STOVE
o RZ	BY OWNER BRONZE	FT	FOOT / FEET	OD OH	OUTSIDE DIAMETER OPPOSITE HAND	SUSP	SUSPENDED SHEET VINYL
<u>\</u>	BOTH SIDES	GA	GAUGE	OPNG	OPENING		TREAD
SMT	BASEMENT	GALV	GALVANIZED	OPP	OPPOSITE	T T	TALL STORAGE CABINET
3	CATCH BASIN	GAS	GAS METER AND REGULATOR	ORD	OVERFLOW ROOF DRAIN	T/	TOP OF
)	CORNICE DRAIN	GB	GRAB BAR	OSB	ORIENTED STRAND BOARD	TB#	TACKBOARD (# DENOTES WIDTH; REFER TO
<u> </u>	CORNER GUARD	GC GL	GENERAL CONTRACTOR GLASS	OSD	OPEN SITE DRAIN	TBR	INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS) TOWEL BAR
H I	COAT HOOK CONTROL JOINT	GL BLK	GLASS BLOCK	PART	PHONE OUTLET PARTITION	TC	TOILET COMPARTMENT
_	CENTER LINE	GLZ	GLAZING	PATT	PATTERN	TD	TRENCH DRAIN
 _G	CEILING	GRND	GROUND	PC	PRECAST CONCRETE	TEL	TELEPHONE
_R	CLEAR(ANCE)	GWB	GYPSUM WALL BOARD	PCO	POLISHED CONCRETE	TFF	TOP OF FINISH FLOOR
MU	CONCRETE MASONRY UNIT	GYP	GYPSUM	PL	PROPERTY LINE	THK TP	THICK
NTR	COUNTER	HB HD	HOSE BIBB ELECTRIC HAND DRYER	PLAM	PLASTIC LAMINATE	TPD	TOILET PAPER TOILET PAPER DISPENSER
))L	CLEAN OUT COLUMN	HDS	HIGH DENSITY STORAGE	PLWD PNT	PLYWOOD PAINT	TPO	THERMOPLASTIC OLEFIN
ONC	CONCRETE	HDWR	HARDWARE	PR	PAIR	TRZ	TERRAZZO
DNST	CONSTRUCTION	HG	HALF GLASS DOOR	PREFAB	PREFABRICATED	TS#	TACK STRIP (# DENOTES WIDTH; REFER TO
ONT	CONTINUOUS	HG-2	HALF GLASS DOOR PAIR	PSE	MOTORIZED PROJECTION SCREEN		INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)
ONTR	CONTRACTOR	HM	HOLLOW METAL	PSF	POUNDS PER SQUARE FOOT	TV TYP	TELEVISION TYPICAL
ORR	CORRIDOR CENTER POINT	HORIZ HP	HORIZONTAL HIGH POINT	PSI	POUNDS PER SQUARE INCH	UC UC	UNDER COUNTER
PT	CENTER POINT CARPET (BROADLOOM)	HPC	HIGH PERFORMANCE COATING	PSM PT	MANUAL PROJECTION SCREEN PORCELAIN TILE	UNO	UNLESS NOTED OTHERWISE
PTT	CARPET (BROADLOOM) CARPET TILE	HR	HOUR	PTB	PORCELAIN TILE PORCELAIN TILE BASE	UR	URINAL
₹	CARD READER	НТ	HEIGHT	PTD	PAPER TOWEL DISPENSER	US	URINAL SCREEN
	CERAMIC TILE	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PTD	PAINTED	VB VB	VAPOR BARRIER
ГВ	CERAMIC TILE BASE	HWH	HOT WATER HEATER	PTF	PORCELAIN TILE FLOOR	VB VBFS	VINYL BASE RECESSED VOLLYBALL FLOOR SLEEVE
TF	CERAMIC TILE FLOOR	ID IN	INSIDE DIAMETER INCH	PTST	PORCELAIN TILE STAIR TREAD	VC VC	VOLUME CONTROL
ΓW	CERAMIC TILE WALL DATA OUTLET	INFO	INFORMATION	PTTWS PTW	PORCELAIN TILETACTILE WARNING STRIP PORCELAIN TILE WALL	VCT VCT	VINYL COMPOSITION TILE
.	DRINKING FOUNTAIN	INSUL	INSULATION	PVC	POLYVINYL CHLORIDE	VDB	VISUAL DISPLAY BOARD
A	DIAMETER	INT	INTERIOR	Q	QUAD POWER OUTLET	VEND	VENDING MACHINE
AG	DIAGONAL	IPS	INTERIOR PAINT SYSTEM	QT	QUARRY TILE	VERT	VESTIBLIE
M	DIMENSION	JC	JANITOR'S CLOSET	QTY	QUANTITY	VEST VIF	VESTIBULE VERIFY IN FIELD
SH .O	DISHWASHER DAYLITE OPENING	JT KB	JOINT KNOX BOX	RAD	RISER RADIUS	VP VP	VENT PIPE
<u>0</u> I	DOWN DOWN	KS	KNEE SPACE	RAL	ROOF LADDER	—	VINYL TILE
<u>' </u>	DOOR	LAM	LAMINATED	RB	RUBBER BASE	VWC	VINYL WALL COVERING
<u>, </u>	DOWNSPOUT	LAV	LAVATORY	RBST	RUBBER STAIR TREAD	W	WALL CABINET
V	DOMESTIC WATER	LIN	LINOLEUM	RD	ROOF DRAIN	W/D	WITH
VG	DRAWING	LP	LOW POINT	REF	REFERENCE / REFER TO	W/D W/O	WASHER / DRYER WITHOUT
\	EACH EVPOSED CONSTRUCTION	LTL LVR	LINTEL	REF	REFRIDGERATOR	WC WC	WATER CLOSET
; :	EXPOSED CONSTRUCTION EACH FACE	LVK	LUXURY VINYL TILE	REINF REQD	REINFORCED REQUIRED	- WCO	WALL CLEAN OUT
· 	EXHAUST HOOD	M	MIRROR	RES	RESINOUS FLOORING	WD	WOOD
HD	ELECTRIC HAIR DRYER	MAT'L	MATERIAL	RESB	RESINOUS INTEGRAL BASE	WM	WALKOFF MAT
	EXPANSION JOINT	MAX	MAXIMUM	REV	REVISION	WP	WATERPROOF
. / ELEV	ELEVATION	MB#	MARKERBOARD (#DENOTES WIDTH, REFER TO	RF	RUBBER FLOOR	WPNL	WOOD PANEL
EC.	ELECTRICAL	MCM	INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS METAL COMPOSITION MATERIAL	RFT	RUBBER FLOOR TILE	WPT WWF	WORK POINT WELDED WIRE FABRIC
1S	ENTRANCE MAT SYSTEMS	INICIAI	WILLIAL COM CONTON WATERIAL	RM	ROOM	YCO	YARD CLEAN OUT

GENERAL NOTES

ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT LOCATION. THE TRADE CONTRACTORS' PERSONNEL SHALL NOT BE ALLOWED ON THE PROJECT SITE WITHOUT COMPLYING WITH THE OWNER'S SECURITY

WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGENT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S) SHALL APPLY. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS; FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS; AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.

THE CONTRACT DOCUMENTS IDENTIFY THE MINIMUM AMOUNT OF WORK REQUIRED. TRADE CONTRACTORS SHALL PROVIDE THE EXTENT OF WORK NECESSARY FOR A COMPLETE INSTALLATION. REFER TO THE PROJECT MANUAL FOR PRODUCTS, MATERIALS, AND PROCEDURES NOT IDENTIFIED ON THE CONTRACT DRAWINGS. THE ACTUAL AREA(S) OF WORK SHALL BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.

DOCUMENTS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES PRIOR TO BIDDING, THE TRADE CONTRACTORS SHALL FIELD VERIFY THE EXTENT OF WORK REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. ADDITIONAL WORK THAT IS REQUIRED, WAS VISIBLE, AND COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO

EXISTING DIMENSIONS AND HATCHED AREAS INDICATED ON CONTRACT

THE TRADE CONTRACTORS SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OR CONSTRUCTION MANAGER OF ANY CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO PREPARING SUBMITTALS OR BEGINNING ANY WORK. . THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY

CONSTRUCTION AND/OR SHORING REQUIRED TO PROPERLY EXECUTE THE REQUIREMENTS OF THEIR CONTRACT. 0. ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK IS NOT BEING PERFORMED. THE TRADE CONTRACTORS SHALL NOT REMOVE EXISTING DOORS, FRAMES, WINDOWS. ETC. UNTIL REPLACEMENTS ARE ONSITE AND READY FOR INSTALLATION. IF INSTALLATION OF DOORS, FRAMES, WINDOWS, ETC. CANNOT BE COMPLETED BY THE END OF THE WORK DAY, THE RESPONSIBLE TRADE CONTRACTORS SHALL PROVIDE TEMPORARY WEATHERPROOF CONSTRUCTION AS REQUIRED TO SECURE THE BUILDING TO THE

THEIR ORIGINAL CONDITION. PATCHING, REPAIRING, AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE EXISTING ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE IN MATERIAL, FINISH, COLOR, TEXTURE AND SHEEN. REFER TO THE CONTRACT DRAWINGS FOR EXISTING BUILDING CONSTRUCTION TO

SATISFACTION OF THE OWNER AND RESTORE AFFECTED SURFACES TO

2. TRADE CONTRACTORS SHALL PROTECT THEIR WORK AND EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN TO PREVENT DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED DURING THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED, AND REFINISHED BY THE RESPONSIBLE TRADE CONTRACTOR TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF

3. THE ARCHITECT SHALL REVIEW AND APPROVE LOCATIONS FOR ALL JUNCTION BOXES AND RACEWAYS PRIOR TO INSTALLATION OF WIRING / 4. EXISTING SITE FEATURES, MATERIALS, AMENITIES, LANDSCAPING, ETC. DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED, REPAIRED, OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR(S)

THE OWNER AND ARCHITECT.

REGULATIONS.

AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT. **15.** CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE CONSTRUCTION CAN PROCEED SMOOTHLY, WITHOUT TRADE INTERFERENCE OR WASTE OF TIME AND MATERIAL. S. WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH

SPECIFICATIONS(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN

COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND

GENERAL CONSTRUCTION / RENOVATION NOTES AFTER REMOVAL OF ITEMS IDENTIFIED TO BE REMOVED, CLEAN AND REPAIR THE EXISTING SURFACES TO REMAIN TO MATCH THE

CONSTRUCTION MATERIALS AND METHODS, FINISHES TEXTURE, PATTERN, COLOR AND SHEEN OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED. WHERE EXISTING EQUIPMENT IS REMOVED AND NEW EQUIPMENT IS SMALLER AND INSTALLED IN THE SAME LOCATION, CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED. . EXISTING AND NEW FIRE RATED ASSEMBLIES ARE TO BE MAINTAINED AND BE IN CONFORMANCE WITH APPLICABLE CODES. PENETRATIONS SHALL BE CONSTRUCTED AND SEALED AS REQUIRED; NEW FIRE RATED ASSEMBLIES

SHALL BE INSPECTED, CERTIFIED, AND APPROPRIATELY LABELED ABOVE . ALL PENETRATIONS THROUGH ANY MATERIAL SHALL BE SEALED WITH A COMPATIBLE MATERIAL APPROVED BY THE ARCHITECT PRIOR TO 5. MASONRY INFILL AND/OR PATCHING SHALL MATCH THE MATERIAL, SIZE,

FINISH, COLOR, TEXTURE AND COURSING OF EXISTING MASONRY TO REMAIN. NEW MASONRY SHALL BE WHOLE UNITS TOOTHED IN TO THE EXISTING MASONRY. NO SAW CUT EDGES WILL BE ALLOWED. MORTAR JOINTS TO MATCH COLOR, TEXTURE AND PROFILE OF ADJACENT

STRUCTURAL LINTELS ARE REQUIRED AT ALL OPENINGS AND RECESSES IN LOAD BEARING AND NON-LOAD BEARING MASONRY WALLS. REFER TO STRUCTURAL DRAWINGS. 7. EXPOSED OUTSIDE CORNERS OF INTERIOR CONCRETE MASONRY UNITS SHALL BE ROUNDED, U.N.O. B. PROVIDE A CONTINUOUS BEAD OF SEALANT BETWEEN DISSIMILAR

9. PROVIDE GALVANIC PROTECTION SEPARATING DISSIMILAR METALS.

10. ALL EXPOSED PIPING AND CONDUIT SHALL BE KEPT AS CLOSE AS

POSSIBLE TO WALLS STRUCTURE, AND FLOOR/ROOF DECK.

11. ALL WALLS ABOVE DOORS/FRAMES TO EXTEND TO UNDERSIDE OF DECK, 12. ALL EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF FINISH 13. SLOPE ALL CONCRETE AND/OR TOPPING TO FLOOR DRAINS; COORDINATE WITH PLUMBING DRAWINGS. 14. CENTER SPRINKLER HEADS AND LIGHT FIXTURES, SECURITY DEVICES, WAP'S, EXIT SIGNS, & SIMILAR DEVICES IN ACT TILES, U.N.O.

GENERAL FINISH NOTES

15. INSTALL WOOD BLOCKING AS NEEDED FOR ALL WALL MOUNTED ITEMS.

I. EXISTING SIGHT-EXPOSED SURFACES OF EXISTING PARTITIONS AND SOFFITS SHALL BE FINISH PAINTED. 2. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE FINISH PLANS AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. NEW PARTITIONS AND SOFFITS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION OR SOFFIT. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISH

. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING: A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING PLASTER AND

CONCRETE BLOCK WALLS; B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT; AND C. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED

. IN OCCUPIED SPACES IN AREAS OF RENOVATION, ALL SIGHT-EXPOSED MEPFP COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DO NOT PAINT MOVING PARTS OR LABELS. 5. DO NOT PAINT EXISTING FACE BRICK, GROUND FACE CMU OR SGFT, UNO.

GENERAL REFLECTIVE CEILING NOTES

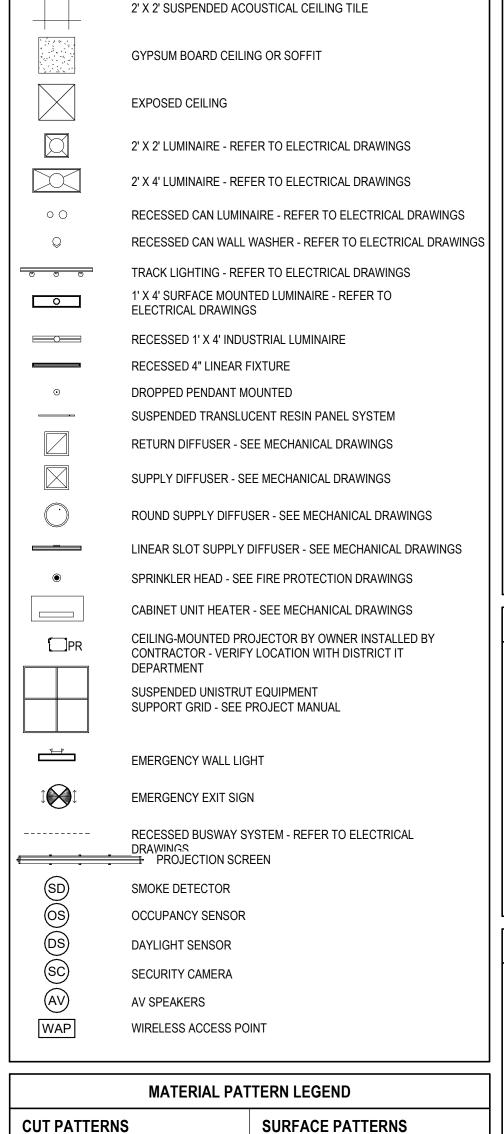
ALL CEILING ELEVATIONS IDENTIFIED DENOTE HEIGHT ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY DRAWINGS FOR CEILING MOUNTED EQUIPMENT AND COMPONENTS NOT IDENTIFIED ON ARCHITECTURAL DRAWINGS. B. IN AREAS WITH NO FINISHED CEILING SYSTEM REFER TO ELECTRICAL DRAWINGS FOR LUMINARIES AND SPACING.

4. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING: A. PAINTING OF CEILING COMPONENTS:

B. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM TYPES TO BE PROVIDED: C. CEILING HUNG WINDOW TREATMENTS PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF EXISTING CONDITIONS PREVENT NEW CEILING SYSTEMS FROM BEING INSTALLED AS DRAWN AND NOTED. PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS DOES NOT MATCH QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ARCHITECTURAL DRAWINGS. . LIGHT FIXTURES IN CORRIDORS ARE TO BE CENTERED IN THE WIDTH OF THE CORRIDOR UNLESS NOTED OTHERWISE. 3. ALL CEILING TILES SHALL BE TYPE 1 UNLESS NOTED OTHERWISE:

A. PROVIDE TYPE 2 CEILING TILES IN TOILET ROOMS.

. PAINT ALL GYPSUM CEILINGS



ALUMINUM

CONCRETE

UNIT / BLOCK

UNDISTURBED

EARTH - TOP SOIL /

GYPSUM BOARD

PLASTIC LAMINATE

LINE TYPES

---- HIDDEN

■ ■ ■ MATCHLINE

NEW (CUT)

---- OVERHEAD

NEW (PROJECTION)

FARTH -

BACKFILL

GRAVEL

GROUT

PLYWOOD

INSULATION

SOLID SURFACE

SPRAY FOAM

INSULATION

RIGID

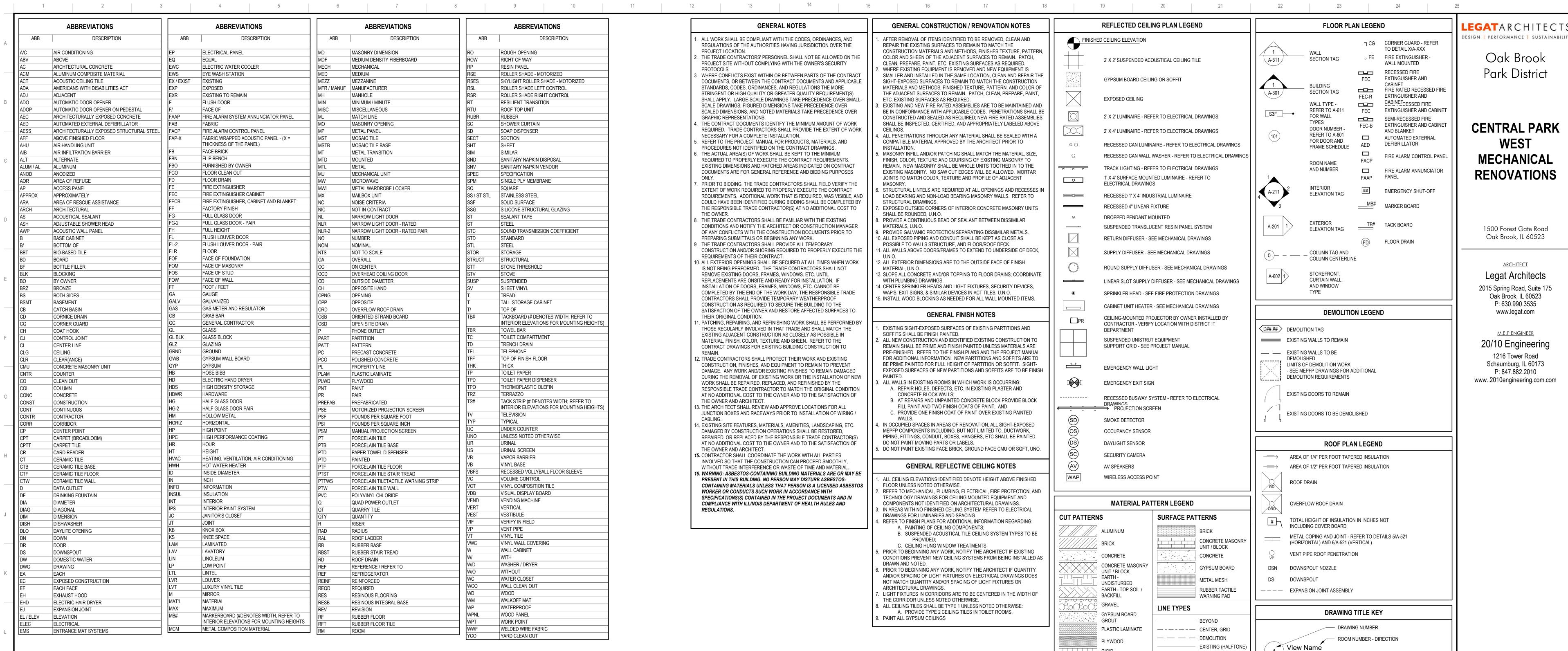
STEEL

CONCRETE MASONRY

BRICK

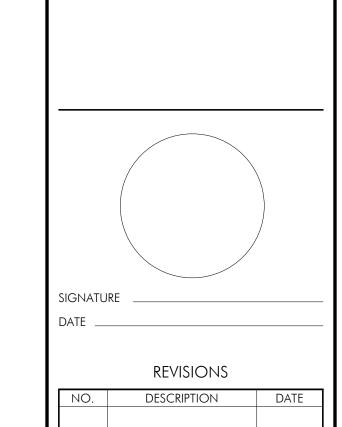
REFLECTED CEILING PLAN LEGEND

FINISHED CEILING ELEVATION



/ 1/8" = 1'-0<u>"</u>

REFERRING SHEET



A102

Oak Brook

Park District

MECHANICAL

RENOVATIONS

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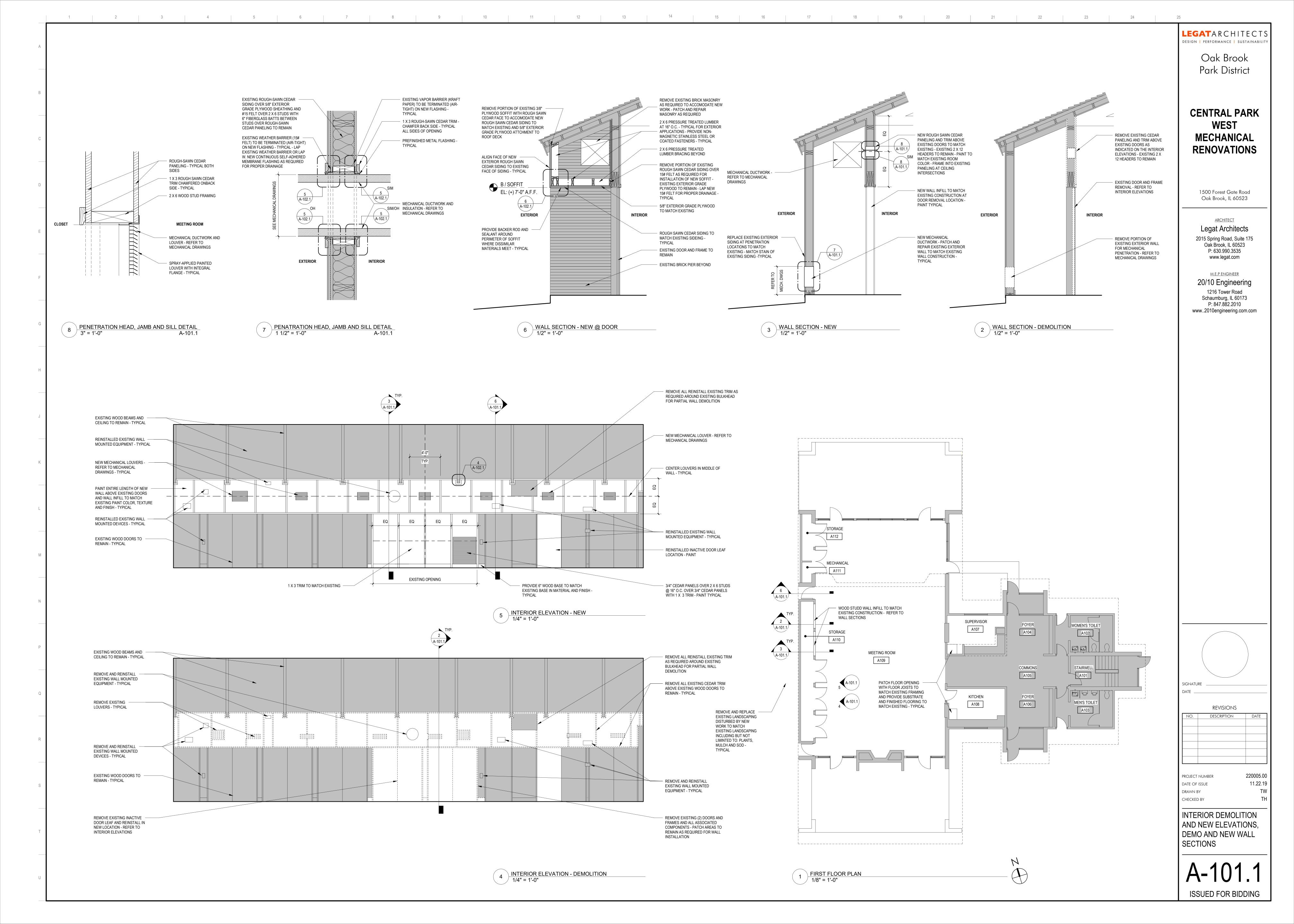
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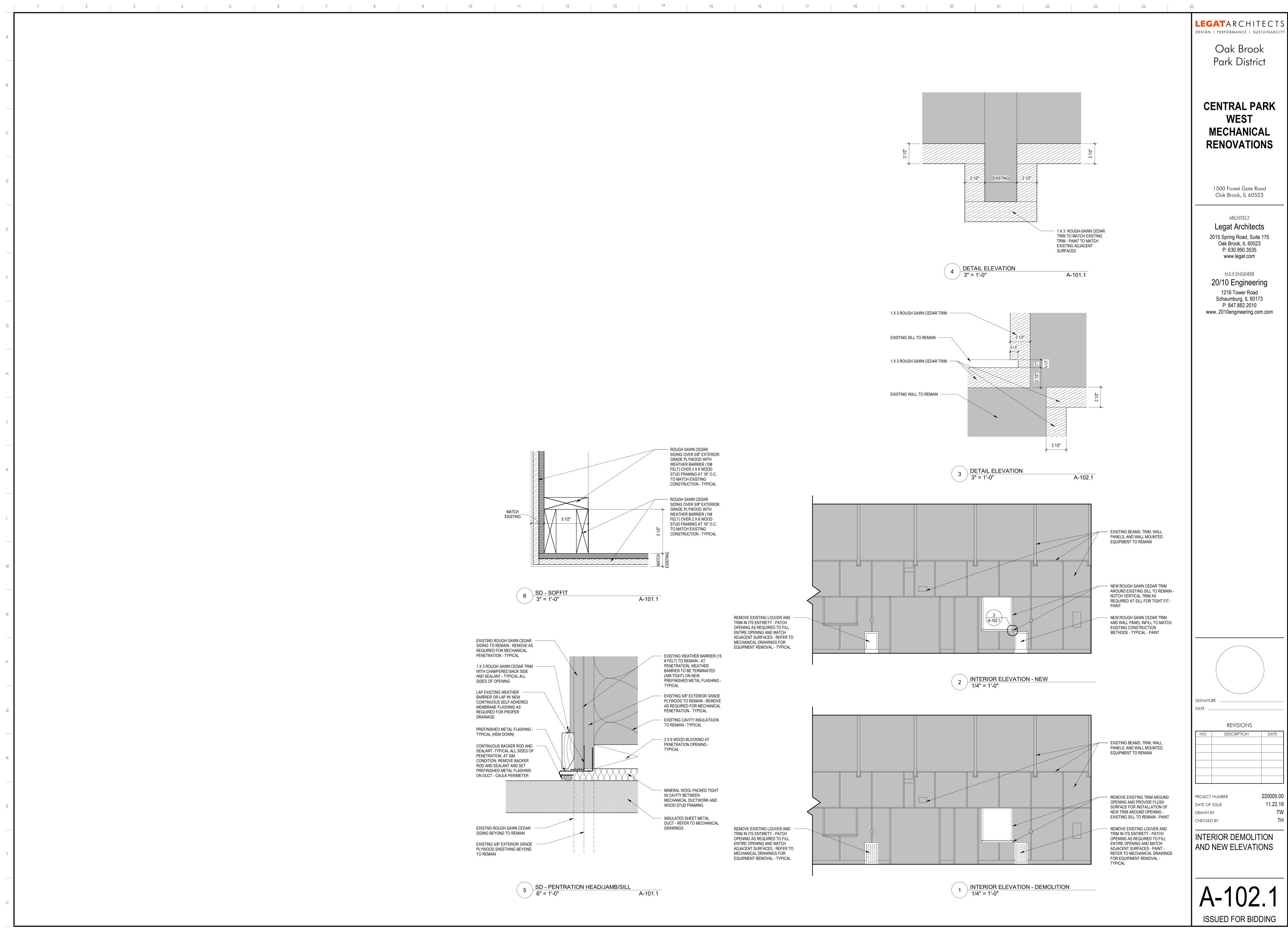
SYMBOLS AND PROJECT GENERAL NOTES

220005.00

11.22.19

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GENERAL NOTES - ALL CONTRACTORS

- 1. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- 2. IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESENTATION.
- 3. CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
- CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
- 6. CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
- 7. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNERS STIPULATION AS DIRECTED.
- 8. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- 9. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW BUILDING CONSTRUCTION ALREADY IN PLACE AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY PREVIOUSLY INSTALLED NEW BUILDING CONSTRUCTION. ANY PREVIOUSLY INSTALLED FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR WHO DAMAGED THEM TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER.
- II. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
- 12. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
- 13. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS OR VISQUIN. ALL PIPING AND DUCTWORK WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED OUTSIDE THE BUILDING ON THE SITE UNLESS IT IS SUPPORTED OFF THE GROUND AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.
- 14. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
- 15. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED. WHEN EQUIPMENT SUBMITTED FOR REVIEW REQUIRES MODIFICATIONS TO THE WORK OF OTHER CONTRACTORS, SUBMITTING CONTRACTOR SHALL PAY FOR ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT FUNCTION SAFELY AND PROPERLY.
- 16. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH CONSTRUCTION OF THE BUILDING, INCLUDING VERIFYING THE SIZE OF OPENINGS, WINDOWS, DOORS, CORRIDORS, ROOMS, ETC. FOR ACCESS OF HIS NEW EQUIPMENT INTO THE BUILDING AREAS WHICH WILL ALREADY BE CONSTRUCTED WHEN HIS EQUIPMENT IS READY TO BE INSTALLED. IF OPENINGS ARE TOO SMALL FOR ACCESS THEN CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE NEW OR ENLARGED OPENINGS AND RESTORE SAME TO PREVIOUS SIZE AND CONDITION. CONTRACTOR MAY ELECT TO ORDER THE EQUIPMENT DISASSEMBLED AND/OR WITH SPLIT HOUSING FOR ENTRANCE INTO THE SPACE OR BUILDING. CONTRACTOR SHALL REASSEMBLE EQUIPMENT AFTER IT IS IN THE SPACE AT HIS OWN EXPENSE.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- 18. CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, DIFFUSERS, REGISTERS, TEMPERATURE CONTROL SYSTEM, ELECTRICAL DEVICES, AND 1/4" = 1'-0" SCALE DETAILED DUCT LAYOUT DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK.
- 19. CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY HIS WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK.
- 20. AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, SHOP DRAWINGS, EQUIPMENT PARTS LISTS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS.
- 21. CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY HIM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.
- 22. CONTRACTOR SHALL MAINTAIN A CURRENT CITY OF OAK BROOK LICENSE THROUGHOUT ALL PHASES OF CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE CITY OF OAK BROOK. THE CITY OF OAK BROOK REQUIRES MINIMUM ONE DAY PRIOR NOTICE FOR ALL INSPECTIONS.

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Oak Brook Park District

CENTRAL PARK
WEST
MECHANICAL
RENOVATIONS

1500 Forest Gate Road Oak Brook, IL 60523

ARCHITECT

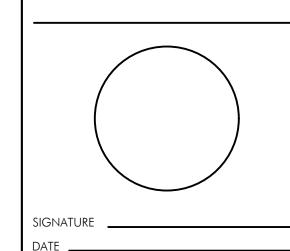
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11.22.19

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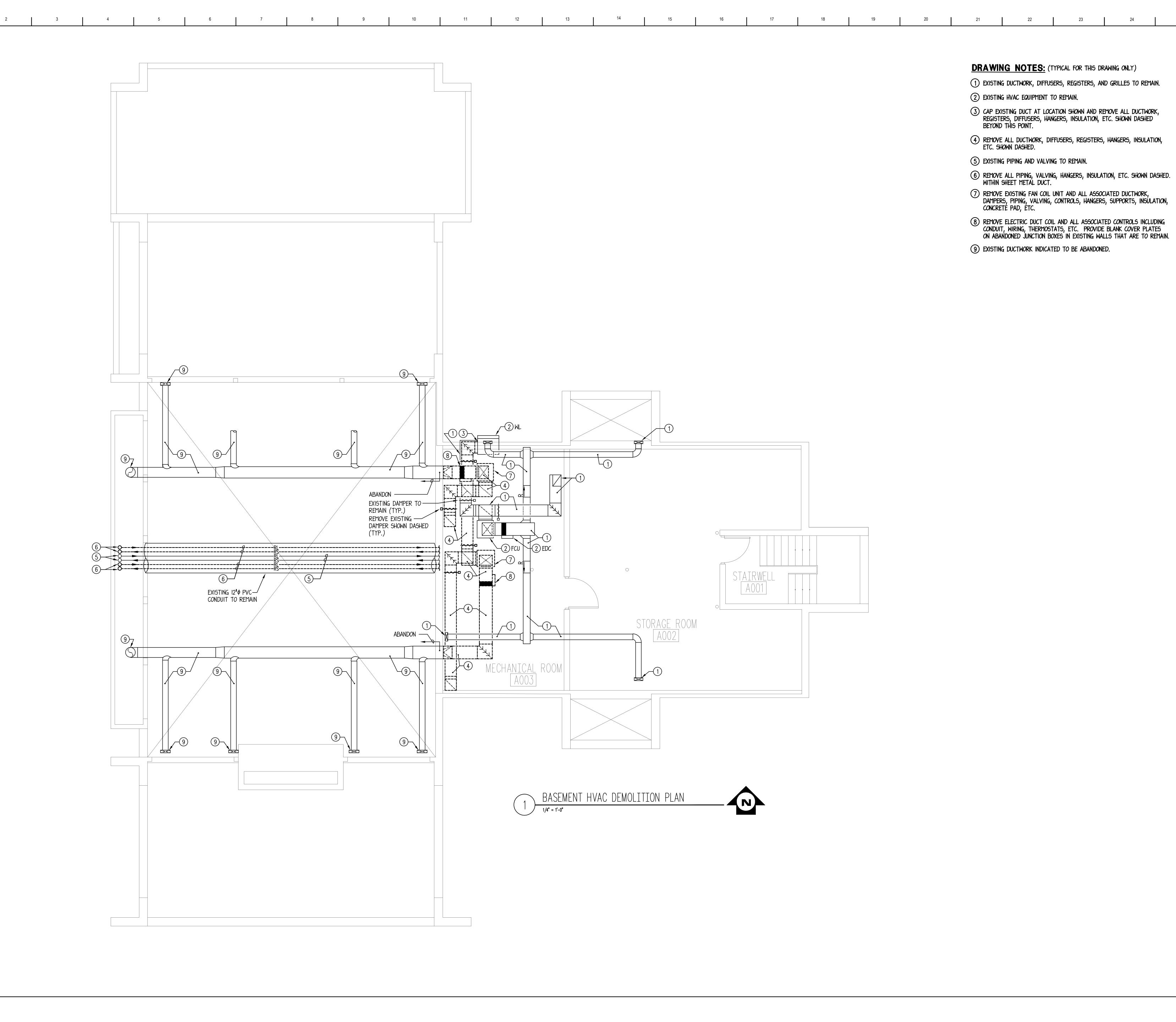
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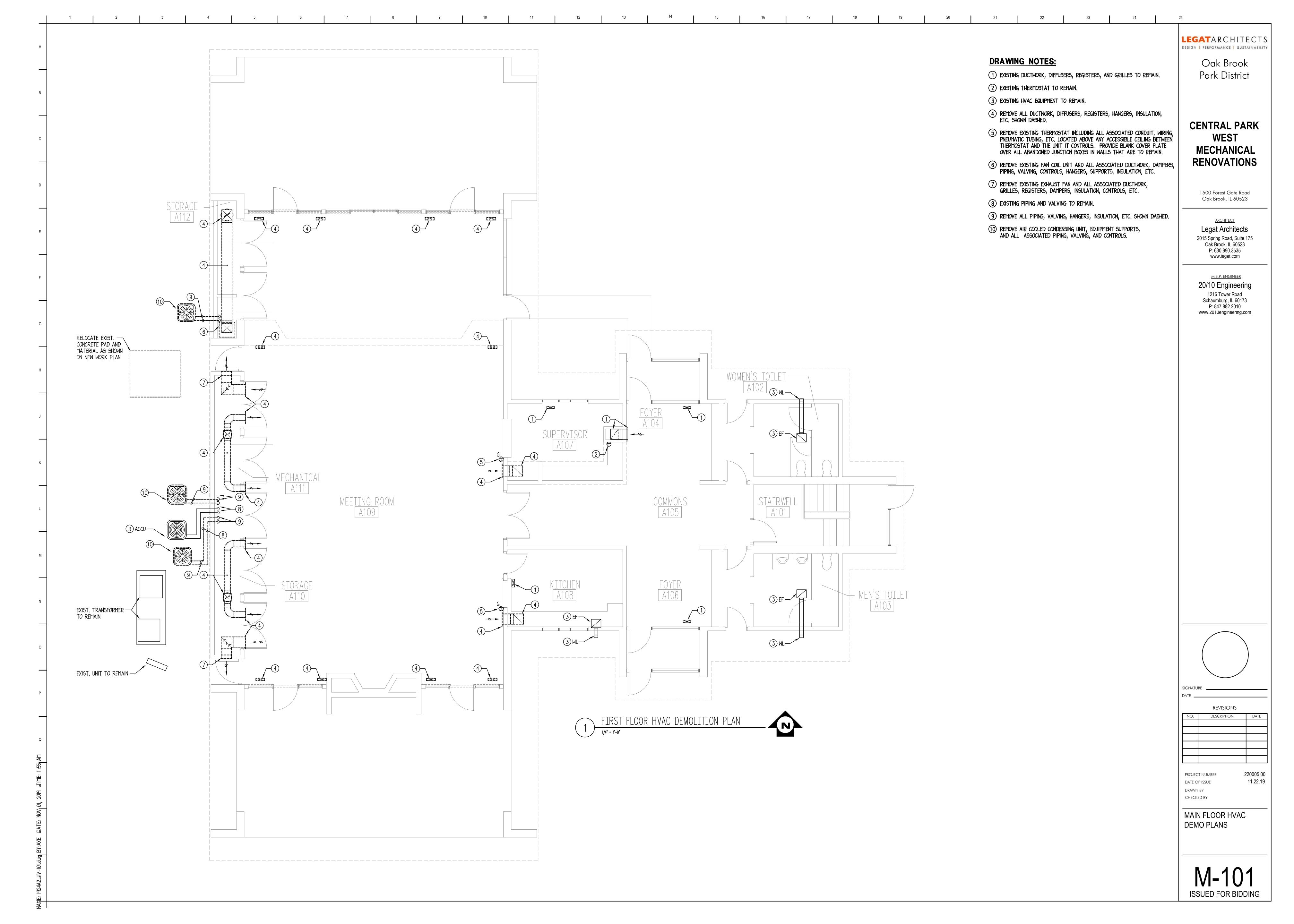
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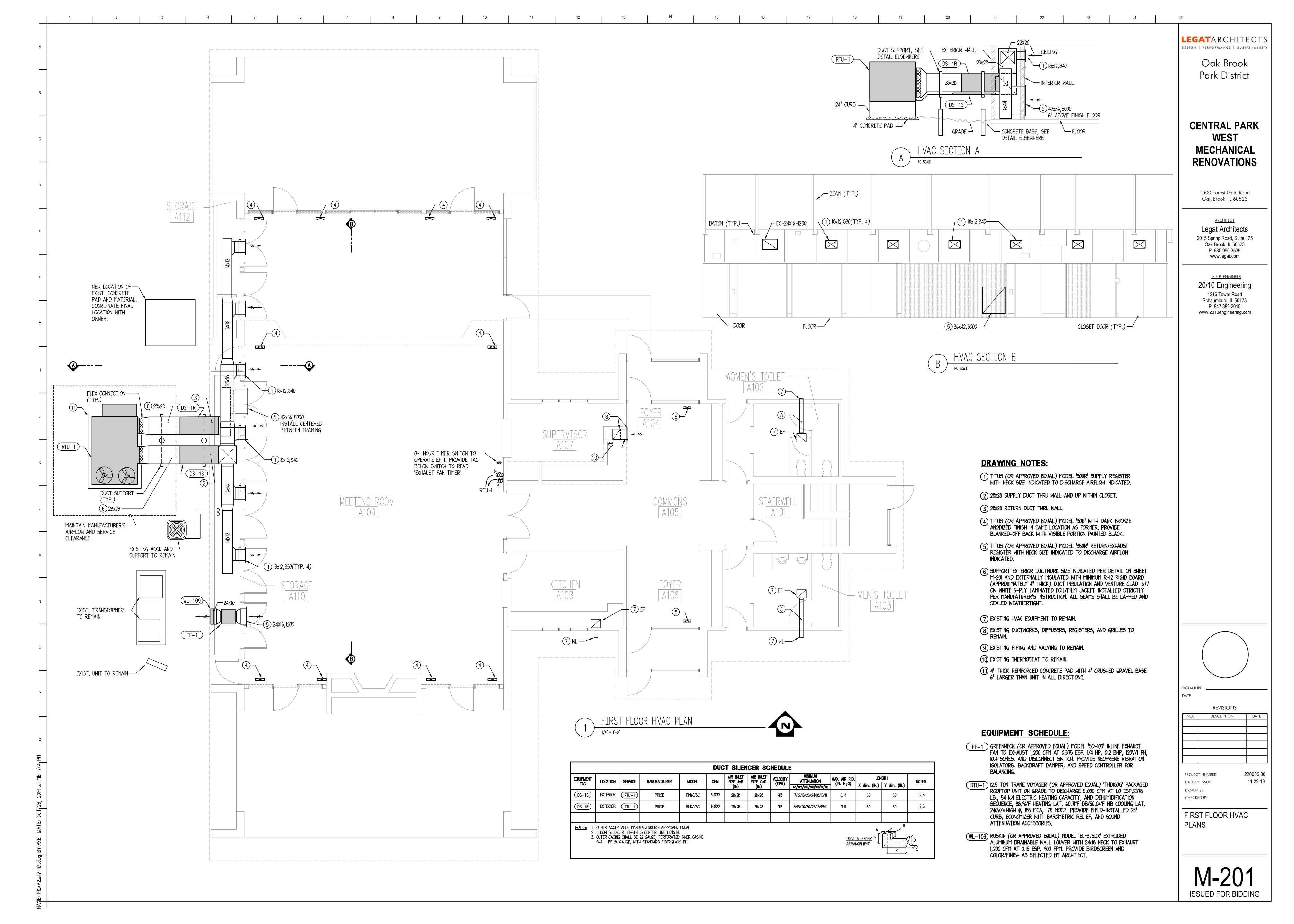
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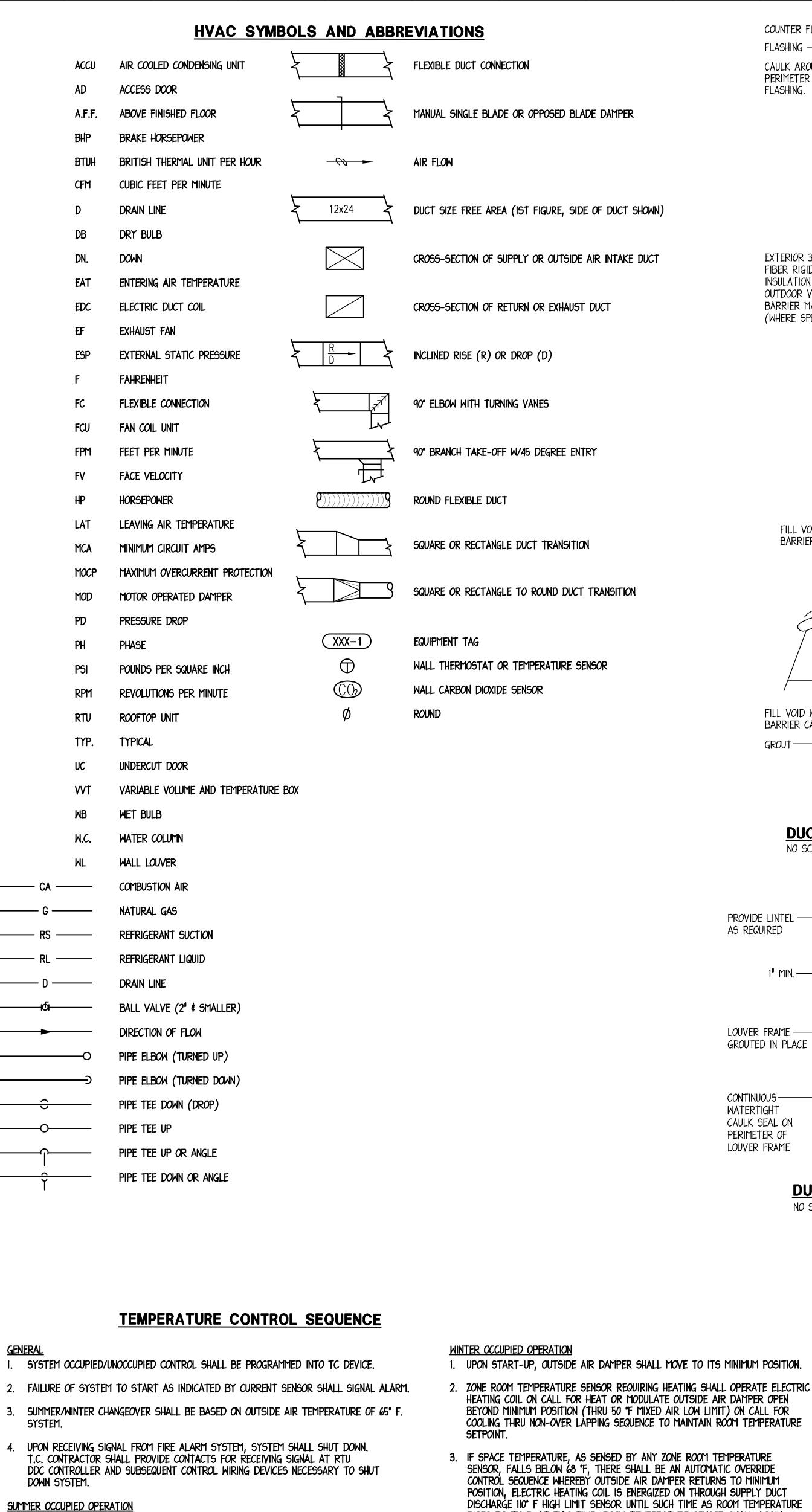
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BASEMENT HVAC DEMO PLANS

M-100







I. FAN SHALL OPERATE CONTINUOUSLY.

COMPRESSOR TO MAINTAIN SETPOINT.

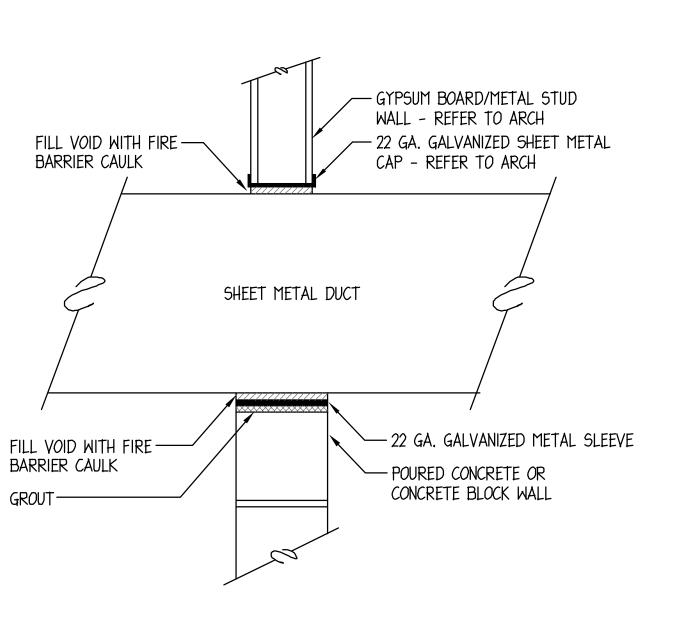
SUMMER UNOCCUPIED OPERATION

. FAN SHALL BE OFF.

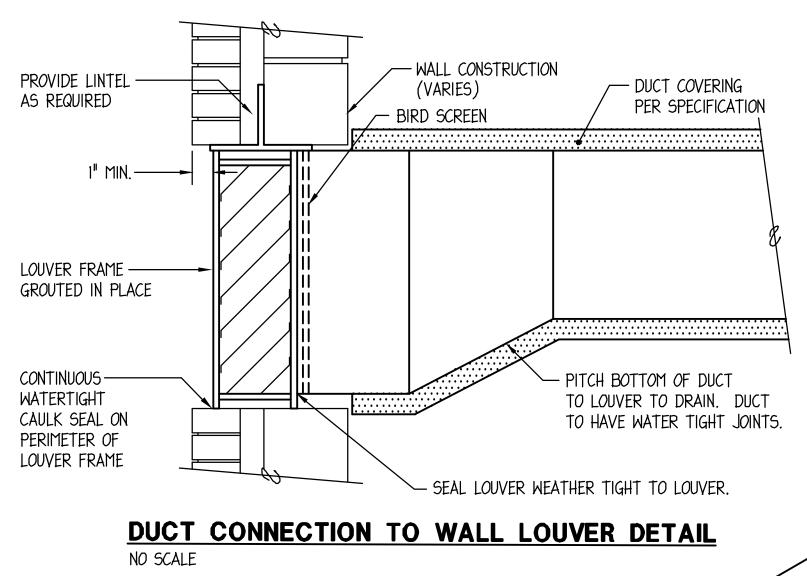
2. OUTSIDE AIR DAMPER SHALL REMAIN AT MINIMUM POSITION.

3. ROOM TEMPERATURE SENSOR FOR ZONE REQUIRING COOLING SHALL OPERATE RTU

COUNTER FLASHING-FLASHING ---- PACK TIGHT WITH OAKUM, LEAD CAULK AROUND ENTIRE-WOOL OR FIBERGLASS ROPE. PERIMETER OF ALL - CAULK TIGHT WITH SILICONE. FLASHING. DUCT FLEXIBLE NON-COMBUSTIBLE BLANKET INSULATION WITH VAPOR BARRIER JACKET (WHERE SPECIFIED) — EXTERIOR -4" WIDE ESCUTCHEON SHEET METAL EXTERIOR 31b. GLASS-FLANGE AROUND ENTIRE DUCT FIBER RIGID BOARD INSULATION WITH -INTERIOR WALL EXTERIOR WALL -OUTDOOR VAPOR GRADE-BARRIER MASTIC. (WHERE SPECIFIED) TYPICAL EXTERIOR TO INTERIOR **DUCT PENETRATION** NO SCALE



DUCT SLEEVE THRU INTERIOR WALL DETAIL



CROWN TOP OF DUCT

FOR WATER DISPERSION VENTURE CLAD 1577CW WHITE 5-PLY-LAMINATED FOIL/FILM JACKET INSTALLED STRICTLY PER MANUFACTURER'S INSTRUCTIONS 3.0 PCF RIGID — BOARD INSULATION SHEET METAL DUCTWORK MIN 2'-0" -

RISES TO 75° F. AT THIS TIME, ROOM TEMPERATURE SENSOR SHALL AGAIN

ASSUME CONTROL AS SPECIFIED PREVIOUSLY. THIS SHALL ALSO ACT AS A

2. IF ANY ZONE ROOM TEMPERATURE SENSOR SENSES A TEMPERATURE BELOW THE

CYCLE UNTIL SUCH TIME AS ROOM TEMPERATURE SENSOR IS SATISFIED.

NIGHT SETBACK TEMPERATURE SETPOINT, SYSTEM SHALL START IN "WARM-UP"

"WARM-UP" CYCLE.

UNOCCUPIED OPERATION

I. FAN SHALL BE OFF.

- GRADE
 - 1. PROVIDE QUANTITY OF DUCT SUPPORTS AS REQUIRED SUCH THAT INSTALLED WEIGHT DOES NOT EXCEED 300 LBS.
 - PER DUCT SUPPORT OR 150 LBS. ON EACH BASE. 2. SPACING NOT TO EXCEED 6'-0" CENTERS.
 - 3. CROSSBRACE TWO PIPESTANDS EVERY FOURTH (4TH) PIPESTAND FOR ELEVATIONS 24" AND HIGHER. 4. IT IS NOT ACCEPTABLE FOR DUCT SUPPORT TO PENETRATE VENTURE CLAD JACKET.

EXTERIOR DUCT SUPPORT DETAIL

GENERAL NOTES - HVAC WORK:

- I. ALL NEW WORK AND MATERIALS SHALL CONFORM TO CITY OF OAK BROOK CODE BUILDING STANDARDS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND PAYING THEIR ASSOCIATED FEES.
- 3. NOISE AND VIBRATION WILL NOT BE TOLERATED. CONTRACTOR SHALL BID ON FURNISHING
- EVERY DETAIL TO ASSURE THIS END. 4. PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING DUCTWORK, PIPING AND ASSOCIATED FITTINGS TO MATCH EXISTING WHERE NEW CONNECTIONS ARE BEING
- CONTRACTORS SHALL PROVIDE A ONE YEAR WARRANTY ON ALL MATERIALS, EQUIPMENT AND LABOR FROM DATE OF SUBSTANTIAL COMPLETION OF WORK EXCEPT AS FOLLOWS: PROVIDE A 5 YEAR PARTS AND LABOR WARRANTY FOR ROOFTOP UNIT COMPRESSOR; PROVIDE A 10 YEAR PARTS AND LABOR WARRANTY FOR ROOFTOP UNIT HEAT EXCHANGER.
- CONTRACTORS SHALL PROVIDE IN WARRANTY LABOR AND MANUFACTURER WILL PROVIDE IN WARRANTY PARTS FOR EQUIPMENT WHICH HAS BEEN PRE-PURCHASED BY THE OWNER. CONTRACTOR SHALL RECEIVE THIS EQUIPMENT FROM THE OWNER AT THE PROJECT SITE. THEN COMPLETE REQUIRED ASSEMBLY WORK AND PROVIDE LABOR AND PROPER INSTALLATION.
- THE LOCATIONS SHOWN FOR ALL DIFFUSERS, REGISTERS AND GRILLES, ETC. ARE DIAGRAMMATIC. EXACT LOCATION SHALL BE DETERMINED FROM THE REFLECTED CEILING

PLANS AND/OR ON THE JOB SITE BY THE ARCHITECT/ENGINEER REPRESENTATIVES.

- EXCEPT AS NOTED OTHERWISE, ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH SEALED JOINTS CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA MANUAL. SIZES SHOWN ARE INSIDE FACE TO INSIDE FACE.
- 9. THE GAUGES OF IRON FOR DUCTS AND CASINGS AND SIZE OF STRUCTURAL REINFORCING ANGLES FOR DUCTS AND CASING SHALL BE SUCH AS TO PROVIDE ABSOLUTELY AIR TIGHT CONSTRUCTION FREE FROM PULSATION, DEFORMATION, OR VIBRATION AT NORMAL OPERATING PRESSURES.
- IO. ALL NEW CONCEALED SUPPLY DUCTWORK OUTSIDE OF MECHANICAL/BOILER ROOM AND ALL RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED 1 1/2" THICK WITH FLEXIBLE FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET.
- II. ALL SUPPLY AND RETURN DUCTWORK, OUTSIDE/MIXED/COMBUSTION AIR DUCTWORK, OR EXHAUST DUCTWORK BETWEEN THE LOUVER AND THE DAMPER SHALL BE EXTERNALLY INSULATED WITH 3 LB. DENSITY RIGID BOARD FIBERGLASS DUCT INSULATION WITH ALL SERVICE JACKET. OUTSIDE AIR AND MIXED AIR DUCTWORK TO BE INSULATED 2" THICK, SUPPLY DUCTWORK TO BE INSULATED 1 1/2" THICK.

MIRO 8-D5-HDG DUCT SUPPORT.

(800-768-6978) FOR PURCHASING

BENEATH VENTURE CLAD 1577CW

JACKET AT ALL DUCT SUPPORTS

CONTACT MIRO INDUSTRIES

12" WIDE SHEET ALUMINUM

INFORMATION

BRACED STRUT ASSEMBLY

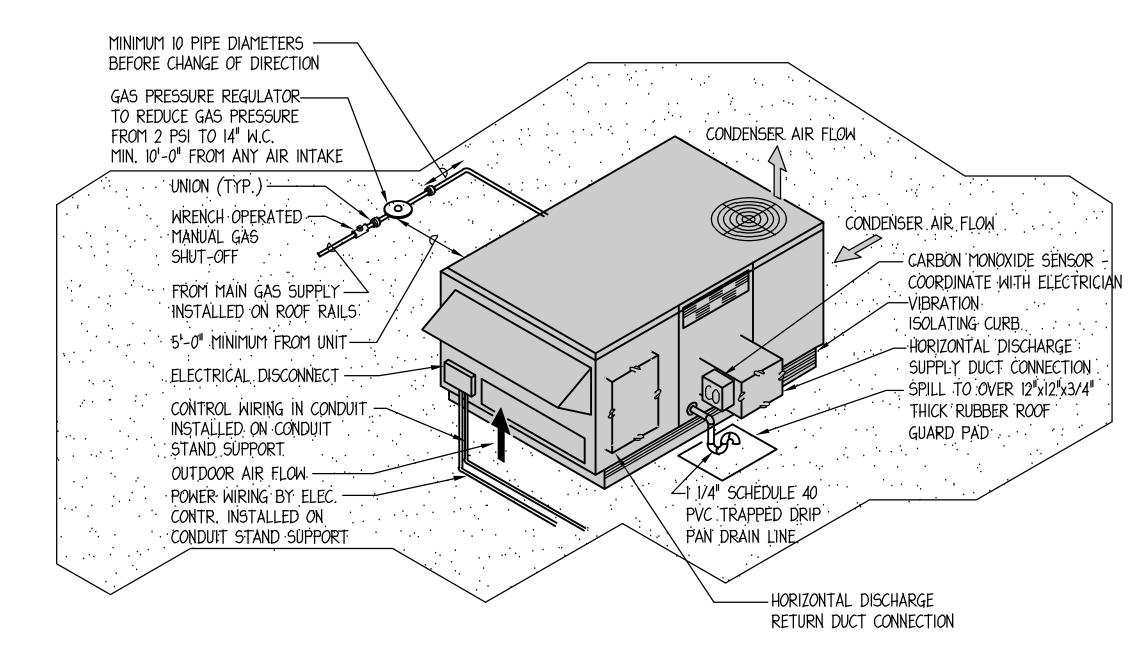
WITH FIELD ADJUSTABLE

CONCRETE BASE

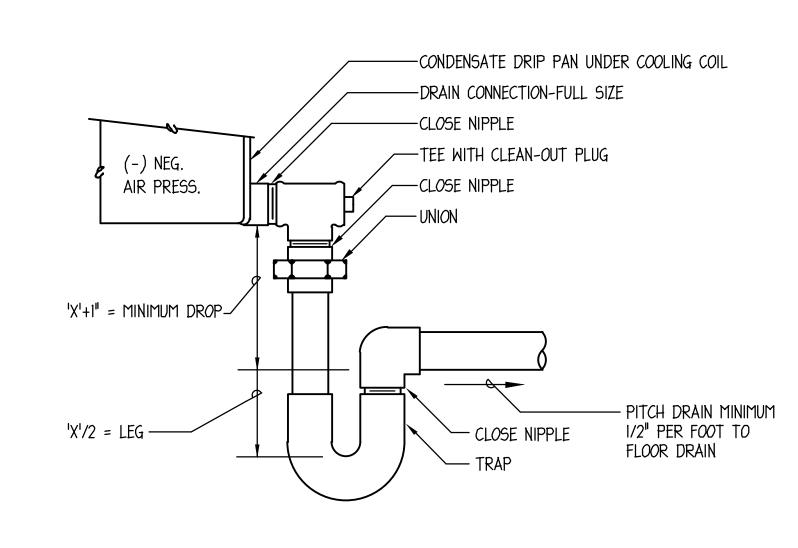
MINIMUM 6" BELOW

FROST LINE

- 12. ALL NEW RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED I THICK WITH MATT FACED FIBERGLASS DUCT LINER.
- 13. PROVIDE MANUAL VOLUME DAMPERS AT EACH BRANCH DUCT TAKEOFF IN SUPPLY DUCTWORK AND IN RETURN/EXHAUST DUCTWORK. PROVIDE TURNING VANES IN ALL SQUARE DUCT
- 14. PAINT ALL INTERIOR DUCTWORK VISIBLE THROUGH AIR INLETS OR OUTLETS FLAT BLACK.
- 15. BALANCE DUCT SYSTEMS TO ACCOMPLISH AIR QUANTITIES SHOWN AT ALL INLETS/OUTLETS (NEW AND EXISTING) AS SHOWN ON DRAWING AND SUBMIT TEST REPORT FOR REVIEW BY OWNER AND ENGINEER.
- 16. ALL REFRIGERANT PIPING SHALL BE TYPE "K" COPPER WITH WROUGHT COPPER SOLDER FITTINGS AND BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. INSULATE REFRIGERANT SUCTION AND HOT GAS LINES WITH 3/4" THICK AP/ARMAFLEX. PROVIDE EXTERIOR INSULATION WITH 2 COATS UV RESISTANT FINISH.
- 17. DRIP PAN DRAIN PIPING SHALL BE SCHEDULE 40 PVC.
- 18. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK AND CONFORM WITH ASTM STANDARDS WELDED FOR PIPE SIZES 2 1/2" AND OVER AND SCREWED FOR PIPE SIZES 2" AND UNDER.
- 19. ALL PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. INSULATED PIPING SHALL REST ON SHEET METAL INSULATION SHIELDS.
- 20. FLUSH, CLEAN, PRESSURE TEST AND CHARGE ALL NEW PIPING SYSTEMS AND EXTENSION TO PIPING SYSTEMS. TESTING SHALL BE MINIMUM 50 PSI HIGHER THAN NORMAL OPERATING PRESSURE OF SYSTEM. CLEANING OF SYSTEM SHALL BE ACCOMPLISHED WITH H-O-H C-312 (OR EQUAL) CHEMICAL SOLUTION MULTIPURPOSE CLEANER UTILIZED IN STRICT ACCORDANCE WITH CHEMICAL TREATMENT SUPPLIER'S INSTRUCTION.
- 21. BALL VALVES SHALL BE STOCKHAM, MILWAUKEE, OR NIBCO MSS SP 110, 400 PSI WOG, ONE PIECE BRONZE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS, BLOW-OUT PROOF STEM, SOLDER ENDS, LEVER HANDLE.
- 22. PROVIDE GAS SHUT-OFF VALVE AT EACH PIECE OF EQUIPMENT AND PRESSURE REGULATORS WHERE REQUIRED. VENT ALL PRESSURE REGULATORS WITHIN THE BUILDING FULL SIZE TO BUILDING EXTERIOR.
- 23. ALL TEMPERATURE CONTROL WORK SHALL MATCH JCI SYSTEM CURRENTLY INSTALLED IN BUILDING.
- 24. ALL ROOFTOP UNIT THERMOSTATS TO BE WHITE-ROGERS IF95 SERIES 7 DAY PROGRAMMABLE WITH ECONOMIZER OPERATION. THERMOSTAT SELECTION SHALL BE MATCHED TO UNIT HEATING/COOLING STAGES. PROVIDE WHITE ROGER'S LOCKABLE THERMOSTAT GUARD SERIES F29 WITH TRANSPARENT COVER.
- 25. LOW VOLTAGE WIRING SHALL BE U/L LISTED AND PLENUM RATED (LOW SMOKE PRODUCING). WIRING SHALL BE CONCEALED IN WALLS AND MAY BE INSTALLED WITHOUT CONDUIT ABOVE ACCESSIBLE LAY-IN CEILING SPACES ONLY.



ON GRADE PACKED ROOFTOP UNIT INSTALLATION DETAIL



I. 'X' = SUCTION PRESSURE AT FAN INLET (NEGATIVE INTERNAL S.P.)

DRAW-THRU COOLING COIL DRIP PAN DRAIN DETAIL

DESIGN | PERFORMANCE | SUSTAINABILIT Oak Brook

LEGATARCHITECTS

Park District

CENTRAL PARK WES1 **MECHANICAL RENOVATIONS**

> 1500 Forest Gate Road Oak Brook, IL 60523

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HVAC SPECIFCATIONS, ABBREV., & DETAILS

ISSUED FOR BIDDING