SPECIFICATIONS

GENERAL:

PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES, ORDINANCES AND GOVERNMENTAL AGENCIES WHICH HAVE PROPER LEGAL JURISDICTION, INCLUDING THE 2003 INTERNATIONAL BUILDING CODE AND THE ILLINOIS ACCESSIBILITY CODE, DATED APRIL 24, 1997.

IF THERE IS A DISCREPANCY BETWEEN THE CODES AND REGULATIONS HAVING JURISDICTION OVER THE INSTALLATION AND THESE DRAWINGS AND SPECIFICATIONS, THE CODES AND REGULATIONS SHALL BE FOLLOWED.

CONFORM TO DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.

ALL EXISTING CONDITIONS SHOULD BE FIELD VERIFIED PRIOR TO THE COMMENCEMENT OF THE WORK.

THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION OBSERVATION AND CONTRACT ADMINISTRATION.

EARTHWORK:

SUBBASE MATERIAL: CRUSHED STONE CA-6, TYPE B.

COMMON FILL: MINERAL SOIL SUBSTANTIALLY FREE FROM ORGANIC AND UNSUITABLE MATERIALS, AND FREE FROM ROCK OR GRAVEL LARGER THAN 2" IN DIAMETER; 60 PERCENT PASSING NO. 40 SIEVE AND NOT MORE THAN 50 PERCENT PASSING NO. 200 SIEVE.

STRUCTURAL FILL: GRAVEL OR SANDY GRAVEL FREE OF ORGANIC AND UNSUITABLE MATERIALS AND WITHIN THE FOLLOWING GRADATION LIMITS: 4" SIEVE, 100 PERCENT PASS BY WEIGHT; 1" SIEVE, 60 TO 100 PERCENT; NO. 4 SIEVE, 25 TO 85 PERCENT; NO.30 SIEVE, 10 TO 60 PERCENT; NO. 50 SIEVE, 4 TO 35 PERCENT; NO. 200 SIEVE, 0 TO 5 PERCENT.

COMPACTION: COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 BY AERATION OR WETTING TO THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY:

STRUCTURE, PAVEMENT, WALKWAYS: SUBGRADE AND EACH FILL LAYER TO 95% OF MAXIMUM DRY DENSITY TO SUITABLE DEPTH.
UNPAVED AREAS: TOP 6" OF SUBGRADE AND EACH FILL LAYER TO 90% MAXIMUM DRY DENSITY.

PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT. TO SUBGRADES INDICATED AS FOLLOWS:

STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.
COMMON FILL: USE UNDER UNPAVED AREAS.
SUBBASE MATERIAL: USE UNDER PAVEMENT, WALKS, STEPS, PIPING AND CONDUIT.

CONCRETE:

FORMWORK: APA RATED 15-15 PLYTORY FORMS SUFFICIENT FOR STRUCTURAL AND VISUAL REQUIREMENTS OR APPROVED EQUAL.

REINFORCEMENT.

BARS: DEFORMED STEEL, ASTM A 615, GRADE 60.
MESH: WELDED STEEL WIRE FABRIC, ASTM A 185.

CONCRETE MATERIALS:

CEMENT: PORTLAND CEMENT, ASTM C 150, TYPE I.
AGGREGATE: NORMAL-WEIGHT AGGREGATES, ASTM C 33.

ADMIXTURES, ALL WITH LESS THAN 1% CHLORIDE IONS:

WATER-REDUCING TYPE AND SUPERPLASTICIZER AS REQUIRED FOR WORKABILITY: EUCLID, SIKA, L&M OR APPROVED EQUAL.
AIR-ENTRAINING TYPE FOR USE IN EXTERIOR CONCRETE AND FOUNDATIONS EXPOSED TO FREEZE-THAW: EUCLID, SIKA, L&M OR APPROVED EQUAL.

MISCELLANEOUS MATERIALS.

VAPOR BARRIER UNDER SLABS ON GRADE: 6 MIL POLYETHYLENE.
HARDENER: NON-METALLIC, QUARTZ-SILICA, INTERIOR/EXTERIOR TYPE; EUCLID SURPLEX OR APPROVED EQUAL.
GROUT: NON-METALLIC, NON-SHRINK TYPE.
WATERSTOPS: DUMBBELL SHAPED; RUBBER OR PVC WATERSTOPS.
NON-SLIP FINISH: ALUMINUM OXIDE GRIT.

CONCRETE MIXES:

4000 PSI FOR PIERS AND FOUNDATION WALLS.
3000 PSI FOR PLACING ON METAL DECK AND FOR FOOTINGS.
3000 PSI FOR PAVING AND PAVING BASE.

COMPLY WITH ACI 301, 304, 305, 306, 311, 318, 347, CRSI 'MANUAL OF STANDARD PRACTICE', AND ASTM C94. DO NOT CHANGE MIX DESIGN WITHOUT APPROVAL. CALCIUM CHLORIDE ADMIXTURES ARE NOT PERMITTED.

CONSTRUCTION JOINTS: USE KEYWAYS, CONTINUE REINFORCEMENT THROUGH JOINT.

EXPANSION JOINTS: FOR EXTERIOR WORK LOCATE 30' O.C. AT APPROVED LOCATIONS. PROVIDE SMOOTH DOWELS ACROSS JOINT WHICH PERMIT 1" HORIZONTAL MOVEMENT AND NO VERTICAL SHEAR MOVEMENT.

ISOLATION JOINTS: PROVIDE BETWEEN SLABS AND VERTICAL ELEMENTS SUCH AS COLUMNS AND STRUCTURAL WALLS.

CONTROL JOINTS: PROVIDE SAWN OR TOOLED JOINTS OR REMOVEABLE INSERT STRIPS; DEPTH EQUAL TO 1/4 SLAB THICKNESS. SPACING AS REQUIRED AND APPROVED.

WALL FINISHES: AS-CAST AND PATCHED FOR CONCEALED WORK; RUBBED SMOOTH, FILLED AND CEMENT PASTE COATED FOR EXPOSED WORK.

SLAB FINISHES

SCRATCH: FOR SURFACES TO RECEIVE MORTAR SETTING BEDS OR CEMENTITIOUS FLOORING MATERIALS.
TROWEL: HARD, SMOOTH, UNIFORM SURFACE FOR AREAS TO RECEIVE RESILIENT FLOORING, CARPET, OR OTHER THIN FINISH MATERIAL.
BROOM: AFTER TROWEL FINISHING, ROUGHEN SURFACE BY FINE BROOMING PERPENDICULAR TO TRAFFIC DIRECTION FOR EXPOSED EXTERIOR WALKS, STEPS AND RAMPS.

UNIT MASONRY:

CONCRETE BLOCK: NORMAL-WEIGHT, ASTM C 145 AND C 90 TYPE I, GRADE N; 7-5/8" BY 15-5/8" FACE SIZE. SPECIAL SHAPES AS REQUIRED.

DECORATIVE CONCRETE MASONRY UNITS: NORMAL-WEIGHT, ASTM C 90 TYPE I, UNIT COMPRESSIVE STRENGTH(MINIMUM) AVERAGE NET-AREA COMPRESSIVE STRENGTH PER ASTM C 90 IS 1900 PSI (13.1 MPa).
1900 PSI. FINISH: SCORED STANDARD FINISH (SCORED VERTICALLY TO APPEAR AS SQUARE UNITS LAID IN STACKED BOND) AS INDICATED. COLOR AS SELECTED BY OWNER.

MORTAR: ASTM C 270, PORTLAND CEMENT-LIME MORTAR, TYPE N ABOVE GRADE; TYPE M BELOW GRADE; OTHER TYPES AS REQUIRED BY APPLICATION. INORGANIC OXIDE MORTAR PIGMENTS, COLOR AS SELECTED; DAVIS, SOLOMON GRIND-CHEM OR APPROVED EQUAL.

REINFORCING:

TIES AND REINFORCING: HOT-DIPPED GALVANIZED, ASTM A 153.
HORIZONTAL REINFORCING: WELDED TRUSS TYPE, 9 GAGE WIRE WITH DEFORMED SIDE RODS.
MASONRY TO CONCRETE TIES: 24 GAGE STEEL DOVETAIL SLOTS, FILLERS, AND 1" WIDE, 16 GAGE CORRUGATED STEEL ANCHORS, LENGTH AS REQUIRED.
REINFORCING BARS: DEFORMED BARS, ASTM A 615, GRADE 60.

COMPLY WITH PCA 'RECOMMENDED PRACTICES FOR LAYING CONCRETE BLOCK' AND BIA TECH NOTES 11, 11A, 11B, 11C, 11D, AND 11E, AND NCMA TEK BULLETINS.

BOND: LAY EXPOSED FACE BRICK IN RUNNING BOND EXCEPT AT AREAS OF SPECIAL COURSING, PATTERNS AND BONDING AS INDICATED ON DRAWINGS.

JOINTS: MAINTAIN UNIFORM 3/8" WIDTH; TOOL CONCAVE. PROVIDE FULL BED, HEAD AND COLLAR JOINTS EXCEPT AT WEEPHOLES; KEEP CAVITY CLEAN AT CAVITY WALLS.

INSTALL STEEL LINTELS AND PROVIDE REINFORCED MASONRY LINTELS WHERE INDICATED.

TIES AND HORIZONTAL REINFORCING: COMPLY WITH CODES; SPACE TIES NOT MORE THAN 24" O.C. VERTICALLY AND HORIZONTALLY.

PROVIDE EXPANSION JOINTS NO GREATER THAN 30' O.C. AT APPROVED LOCATIONS.

STRUCTURAL STEEL:

STEEL SHAPES, PLATES AND BARS: ASTM A 36, OR ASTM A 572, GRADE 50.
STEEL PIPE: ASTM A 53.
GALVANIZED LINTELS: HOT DIP GALVANIZED ASTM A 123.

COMPLY WITH AISC CODES AND SPECIFICATIONS, AND WITH AWS 'STRUCTURAL WELDING CODE'.

STANDARD STEEL DOORS AND FRAMES:

DOORS: 1-3/4" THICK FLUSH DOORS.

INTERIOR DOORS: SDI-100 GRADE II, HEAVY-DUTY, MODEL 3 OR 4 SEAMLESS CONSTRUCTION, 18 GAGE ASTM A 366 OR A 568 COLD-ROLLED STEEL. FINISH: RUST-INHIBITING PRIMER.

EXTERIOR DOORS: SDI-100 GRADE III, EXTRA HEAVY-DUTY, MODEL 3 OR 4 SEAMLESS CONSTRUCTION, INSULATED 16 GAGE ASTM A 526 STEEL WITH ASTM A 525 G60 GALVANIZING.

FRAMES: COLD-ROLLED STEEL SHEET, GAGE AS FOLLOWS:

INTERIOR FRAMES: 16 GAGE UP TO 5' HIDE, 14 GAGE OVER 5' HIDE.
EXTERIOR FRAMES: 14 GAGE ASTM A 526 STEEL WITH ASTM A 525 G60 GALVANIZING.
FRAME CONSTRUCTION: FULLY WELDED, MITERED CORNERS.
FINISH: RUST-INHIBITING PRIMER.

FIRE RATING: UL LABELED, FIRE-RATED ASSEMBLY WHERE REQUIRED.

FABRICATE WORK TO BE RIGID, NEAT AND FREE FROM SEAMS, DEFECTS, DENTS, HARP, BUCKLE, AND EXPOSED FASTENERS. INSTALL DOORS AND FRAMES IN COMPLIANCE WITH SDI-100, NFPA 80, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

PROVIDE THERMALLY IMPROVED DOORS WITH MAXIMUM U-VALUE OF 0.24 BTU/HR/SQ.FT./DEGREE F (ASTM C236) FOR ALL EXTERIOR DOORS AND ELSEWHERE AS NOTED.

HARDWARE: PREPARE DOORS AND FRAMES TO RECEIVE HARDWARE ON FINAL SCHEDULE. PROVIDE FOR 3 SILENCERS ON SINGLE DOOR FRAMES, 2 ON DOUBLE DOOR FRAMES.

SHOP FINISH: CLEAN, TREAT AND PRIME PAINT ALL WORK WITH RUST-INHIBITING PRIMER COMPARABLE WITH FINISH PAINT SPECIFIED IN PAINTING SECTION. PROVIDE ASPHALT EMULSION SOUND DEADENING COATING ON CONCEALED FRAME INTERIORS.

STONE MASONRY VENEER:

STONE: MATCH EXISTING.

MORTAR: ASTM C 270, PORTLAND CEMENT-LIME MORTAR, ASTM C 150, COLOR FOR POINTING MORTAR AS SELECTED.

TIES AND REINFORCING: HOT-DIPPED GALVANIZED, ASTM A 153.

ADJUSTABLE STONE MASONRY-VENEER ANCHORS: PROVIDE 3-PIECE ASSEMBLIES ALLOWING VERTICAL OR HORIZONTAL DIFFERENTIAL MOVEMENT BETWEEN VENEER AND WALL FRAMING PARALLEL TO PLANE OF WALL BUT RESISTING TENSION AND COMPRESSION FORCES PERPENDICULAR TO IT, FOR ATTACHMENT OVER SHEATHING TO METAL STUDS, AND WITH THE FOLLOWING STRUCTURAL PERFORMANCE CHARACTERISTICS: STRUCTURAL PERFORMANCE CHARACTERISTICS: CAPABLE OF WITHSTANDING A 100-LBF (445-N) LOAD IN EITHER TENSION OR COMPRESSION WITHOUT DEVELOPING PLAY OR DEFORMING MORE THAN 0.05 INCH (1.3 MM).

WEEP BAFFLE AT BASE OF CAVITY: CLEAN, ROUNDED GRAVEL.

DRAINAGE: OPEN HEAD JOINTS OR ROPE WICKS AS INDICATED.

WEATHER PROTECTION: COLD WEATHER: HEAT MORTAR WATER AND SAND; ENCLOSE WALLS AND PROVIDE TEMPORARY HEAT AS RECOMMENDED BY BIA TECH NOTES 1, 1A, 1B, AND 1C. HOT WEATHER, USE MORTAR WITHIN 1-1/2" HOURS AFTER MIXING FOR AMBIENT 80 DEGREES F OR ABOVE.

TOLERANCES: FROM DIMENSIONS AND LOCATIONS IN CONTRACT DOCUMENTS FOR PLUMB, LEVEL AND ALIGNMENT, PLUS OR MINUS 1/8 IN 20'.

FIRE-RATING: WHERE INDICATED, PROVIDE ASSEMBLIES IDENTICAL TO TESTED ASSEMBLIES AND ACCEPTED BY AUTHORITIES HAVING JURISDICTION.

JOINTS: MAINTAIN UNIFORM 3/8" WIDTH; TOOL CONCAVE. PROVIDE FULL BED, HEAD AND COLLAR JOINTS EXCEPT AT WEEPHOLES; KEEP CAVITY CLEAN AT CAVITY WALLS.

WEEPHOLES: PROVIDE FULLY OPEN HEAD JOINTS AT 24" O.C. FOR BRICK AT 32" O.C. FOR BLOCK ABOVE ALL LEDGES, FLASHINGS AND LINTELS. FILL CAVITY 8" HIGH WITH WEEP BAFFLE MATERIAL.

INSTALL STEEL LINTELS AND PROVIDE REINFORCED MASONRY LINTELS WHERE INDICATED.

COORDINATE INSTALLATION OF FLASHINGS. PREPARE MASONRY SURFACES SMOOTH AND BED FLASHINGS IN MORTAR.

TIES AND HORIZONTAL REINFORCING: COMPLY WITH CODES; SPACE TIES NOT MORE THAN 24" O.C. VERTICALLY AND HORIZONTALLY.

PROVIDE EXPANSION JOINTS NO GREATER THAN 30' O.C. AT APPROVED LOCATIONS.

REMOVE AND REPLACE DAMAGED UNITS. ENLARGE HOLES IN MORTAR AND RE-POINT. PREPARE JOINTS TO RECEIVE SEALANTS

BUILDING INSULATION:

BLANKET/BATT TYPE INSULATION: UNFACED, PAPER-FACED (VAPOR BARRIER), AND FOIL-FACED (VAPOR BARRIER) GLASS FIBER BLANKET INSULATION TYPES; OWENS CORNING FIBERGLASS CORP OR APPROVED EQUAL.

BOARD TYPE INSULATION: EXTRUDED POLYSTYRENE BOARD; COMPRESSIVE STRENGTH 30 PSI AT FOUNDATIONS AND UNDER SLABS-ON-GRADE; STYROFOAM BY DOW CHEMICAL OR FOAMULAR BY UC INDUSTRIES OR APPROVED EQUAL.

LOOSE FILL TYPE INSULATION: LOOSE, GRANULAR PERLITE OR VERMICULITE.

VAPOR BARRIER: 6 MIL CLEAR POLYETHYLENE SHEET.

INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION. COORDINATE WITH WORK OF OTHER SECTIONS. PROVIDE FULL THICKNESS IN ONE LAYER OVER ENTIRE AREA; TIGHTLY FITTING AROUND PENETRATIONS.

FOUR LOOSE INSULATION INTO CAVITIES INDICATED; TAKE GREAT CARE TO PROVIDE UNIFORM COVERAGE AT CORRECT DENSITY AND THICKNESS TO OBTAIN SPECIFIED R-VALUE.

INSTALL VAPOR BARRIER OVER ENTIRE AREA OF INSIDE FACE OF EXTERIOR WALLS AND ELSEWHERE AS INDICATED. SEAL ALL SEAMS AND AROUND PERIMETER AND PENETRATIONS WITH DUCT TAPE TO FORM A CONTINUOUS VAPOR BARRIER FREE OF HOLES.

PROTECT INSTALLED INSULATION AND VAPOR BARRIER.

FLASHING:

EXTERIOR FLASHING: PRE-PAINTED STEEL: 24 GAGE GALVANIZED STEEL, G90 GALVANIZING, ASTM 525, PRIMED AND FINISHED ONE SIDE WITH KYNAR FLUOROPOLYMER COATING. COLORCLAD, FOREMOST OR APPROVED EQUAL. COLOR AS SELECTED BY OWNER.
INTERIOR FLASHING: 20 GAGE GALVANIZED STEEL, G90 GALVANIZING, ASTM A 525.

FOLLOW INSTALLATION RECOMMENDATIONS OF SMACNA 'SHEET METAL MANUAL'. ALLOW FOR EXPANSION. ISOLATE DISSIMILAR MATERIALS.

JOINT SEALANTS:

EXTERIOR JOINTS ON VERTICAL SURFACES: NON-SAG POLYURETHANE; PECORA DYNATROL II OR TREMCO DYMERIC OR APPROVED EQUAL.
INTERIOR JOINTS: ACRYLIC LATEX; TREMCO ACRYLIC LATEX OR APPROVED EQUAL.

INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS. CLEAN AND PRIME JOINTS, AND INSTALL BOND BREAKERS, BACKER RODS AND SEALANT AS RECOMMENDED BY MANUFACTURERS. DEPTH SHALL EQUAL WIDTH UP TO 1/2" WIDE; DEPTH SHALL EQUAL 1/2 WIDTH FOR JOINTS OVER 1/2" WIDE.

WOOD DOORS:

INTERIOR DOORS: SOLID CORE FLUSH WOOD DOORS WITH AHA PC-5 OR PC-7 PARTICLEBOARD CORE FOR INTERIOR LSD; AHA PREMIUM GRADE.

FACE FOR TRANSPARENT FINISH: RIFT CUT RED OAK VENEER, BOOK MATCHED FOR TRANSPARENT FINISH.

COMPLY WITH WDMA I.S.-1 AND AHA QUALITY STANDARD. PREFIT DOORS TO FRAMES. PREMACHINE DOORS FOR HARDWARE LISTED ON FINAL SCHEDULES. FACTORY BEVEL DOORS.

INSTALL DOORS WITH NOT MORE THAN 1/8" CLEARANCE AT TOP AND SIDES, 1/4" AT BOTTOM.

SHOP FINISH: SAND AND PROVIDE FIRST COAT OF FINISH SYSTEM SPECIFIED IN PAINTING SECTION. WRAP AND PROTECT.

ADJUST, CLEAN, AND PROTECT.

ALUMINUM ENTRANCES AND STOREFRONTS:

SUBMIT FOR APPROVAL SHOP DRAWINGS, PRODUCT DATA, WARRANTY.

FRAMING SYSTEM: UNITS FABRICATED FROM ALUMINUM EXTRUSIONS, ASTM B 221, AND SHEET, ASTM B 209, WITH THERMAL BREAK; EFCO SYSTEM 403.

METAL FINISH: MATCH EXISTING.

GLAZING: INSULATED GLAZING.

DOOR HARDWARE:

HINGES, BUTTS AND PIVOTS: FULL-MORTISE, 5 KNUCKLE BALL-BEARING TYPE; STANLEY OR APPROVED EQUAL.

LOCKSETS AND LATCHSETS: HEAVY DUTY (COMMERCIAL AND INSTITUTIONAL); SCHLAGE D SERIES OR APPROVED EQUAL.

LOCK CYLINDERS AND KEYING: INTERCHANGEABLE-CORE PIN TUMBLER LOCK CYLINDERS AND NICKEL SILVER KEYS.

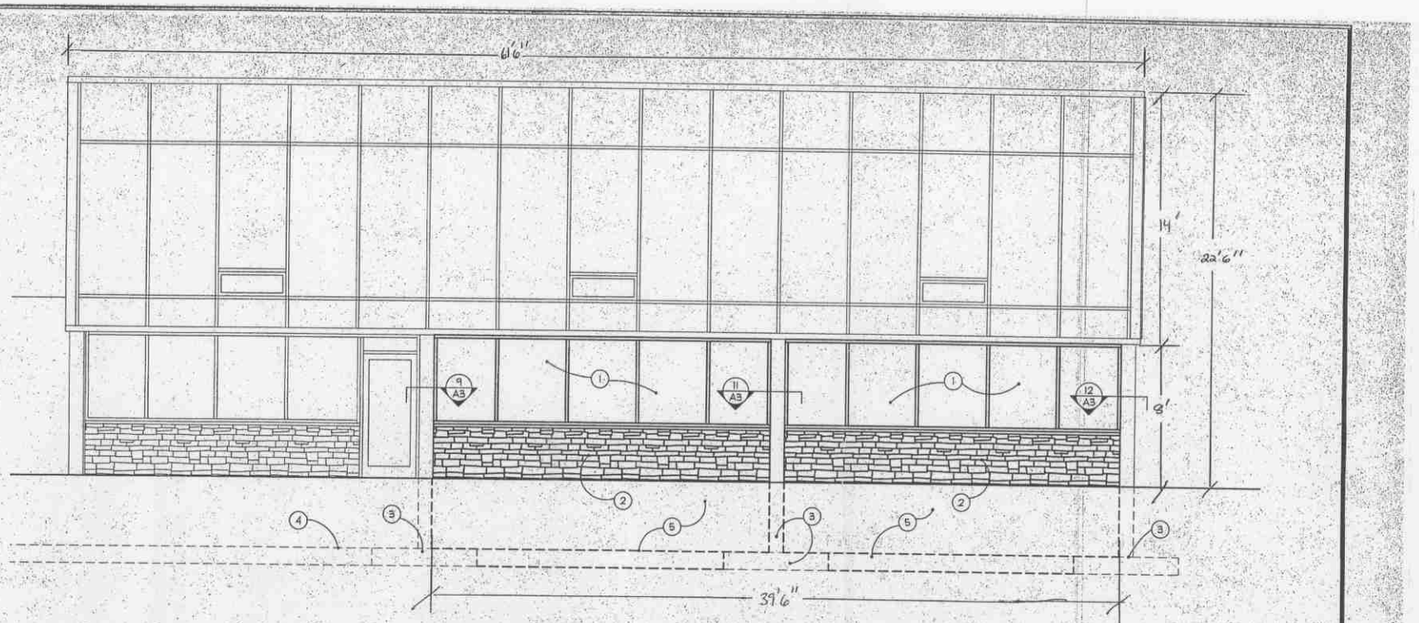
FINISH: AS SELECTED BY OWNER.

FOLLOW GUIDELINES OF DHI 'RECOMMENDED LOCATIONS FOR BUILDER'S HARDWARE FOR STANDARD STEEL DOORS AND FRAMES' AND HARDWARE MANUFACTURERS' INSTRUCTIONS.

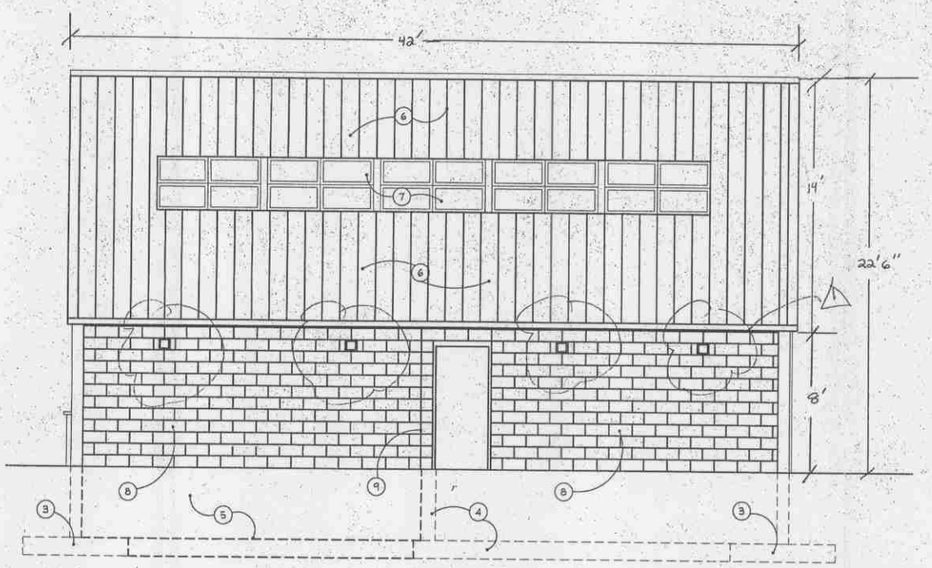
INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

GYPSUM BOARD ASSEMBLIES:

GYPSUM BOARD: ASTM C 36, 5/8" THICK REGULAR, WATER RESISTANT, FIRE RESISTANT, AND FOIL-BACKED TYPES AS REQUIRED; U. S. GYPSUM, GOLD BOND DIV., NATIONAL GYPSUM, DOMTAR GYPSUM OR APPROVED EQUAL.



NORTH ELEVATION
SCALE: 1/4" = 1'-0"



WEST ELEVATION
SCALE: 1/4" = 1'-0"

ELEVATION KEY NOTES

1. NEW ALUMINUM WINDOWS. FIELD DETERMINE DIMENSIONS TO ALIGN MULLIONS WITH EXISTING MULLIONS ABOVE.
2. NEW STONE VENEER AND SILL TO MATCH EXISTING.
3. EXISTING SPREAD FOOTING. FIELD VERIFY.
4. EXISTING FOUNDATION WALL AND FOOTING. FIELD VERIFY.
5. NEW FOUNDATION WALL AND FOOTING. BOTTOM OF FOOTING TO MATCH ELEVATION OF BOTTOM OF EXISTING SPREAD FOOTING.
6. REMOVE EXISTING METAL SIDING AND PROVIDE NEW TO MATCH EXISTING.
7. EXISTING WINDOWS TO REMAIN.
8. NEW CONCRETE MASONRY.
9. NEW MASONRY CONTROL JOINT.

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