

Y GARDENS APARTMENTS 1255 E. CHESTNUT SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

MHDC PROJECT # 18-073





GENERAL PROJECT

NOTES

- A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY & LIFE SAFETY CODES & REQUIREMENTS. B. THE GENERAL CONTRACTOR & ALL SUBCONTRACTORS
- SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL BUILDING SPECIFIC REQUIREMENTS & EXTENTS OF THE WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNIBLE FROM THE DRAWINGS.
- . DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EX. CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. PRIOR TO ORDERING, FABRICATION, ETC ..
- D. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PROJECT DOCUMENTS & EX. CONDITIONS REFERENCE ARCHITECTURAL, CIVIL, STRUCTURAL,
- MECHANICAL, ELECTRICAL & PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- INSTALL NON-EXPANDING SPRAY FOAM INSULATION AT WINDOW & EXTERIOR DOOR BLOCKING. SEAL ALL CRACKS, GAPS & HOLES (FLOOR / WALL JOINT, WALL TOP PLATE, ELEC. OUTLET BOXES, MEP PENETRATING ITEMS, HVAC SUPPLY & RETURN BOOTS, ETC.) IN THE GYP. BD. BUILDING ENVELOPE (WALLS & CEILING) WITH CAULK OR EXPANDING FOAM. ALL UNITS WILL BE REQUIRED TO MEET A MAX. BLOWER DOOR SCORE OF 4ACH50.
- 6. PARTICLE BOARD & MDF TO BE CERTIFIED COMPLIANT WITH ANSI A208.1 & A208.2, UREA FORMALDEHYDE-FREE COMPOSITE WOOD
- H. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERPROOF, WATERPROOF, AIRTIGHT, ETC. PERFORMANCE.
- ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
- REFER TO DOOR SCHEDULE FOR DOOR & HARDWARE REQUIREMENTS. THE HINGE SIDE OF THE DOOR JAMB SHALL BE 4" FROM THE ADJACENT WALL, UNLESS SHOWN OTHERWISE
- REFER TO SHEET AO.I FOR TYPICAL FIRESTOPPING DETAILS. 078413.
- THIS PROJECT WAS DESIGNED USING THE NATIONAL GREEN BUILDING STANDARD. RE: SPECIFICATION FOR CHECKLIST. A THIRD PARTY CONSULTANT WILL VISIT THE SITE FOR ROUGH IN-SITE OBSERVATION TO CHECK FOR INCLUSION / INSTALLATION OF SUSTAINABLE FEATURES.
- M. TERMITE TREATMENT SHALL BE INSTALLED PRIOR TO INSTALLING BUILDING SLAB.

SHEET SCHEDULE

COVERSHEET

SURVEY

- CIVIL DRAWINGS:
- CI.I SITE LAYOUT & DIMENSION PLAN CI.2 SITE DETAILS CI.3 SITE GRADING PLAN CI.4 SITE GRADING DETAILS CI.5 SITE UTILITY PLAN CI.6 STORMWATER POLLUTION PREVENTION PLAN CI.7 STORMWATER POLLUTION PREVENTION DETAILS LI.I LANDSCAPE PLAN ARCHITECTURAL DRAWINGS: SPI.I SITE PLAN SPI.2 SITE DETAILS AO.I CODE ANALYSIS AO.2 UL DETAILS AO.3 UL DETAILS
- AI.I IST FLOOR PLAN AI.ID IST FLOOR DIMENSION PLAN AI.2 2ND FLOOR PLAN AL2 2ND FLOOR DIMENSION PLAN AI.3 3RD FLOOR PLAN AI.3 3RD FLOOR DIMENSION PLAN AI.4 ROOF PLAN A2.I BUILDING ELEVATIONS A2.2 BUILDING ELEVATIONS A2.3 BUILDING SECTIONS A3.I ENLARGED STAIR & RAMP PLANS A3.2 STAIR SECTIONS & DETAILS A3.3 WALL SECTIONS A3.4 WALL SECTIONS A3.5 DETAILS A3.6 DETAILS A4.I ENLARGED FLOOR PLANS A4.2 ENLARGED FLOOR PLANS A4.3 INTERIOR ELEVATIONS A4.4 INTERIOR ELEVATIONS A4.5 INTERIOR ELEVATIONS A5.I IST FLOOR REFLECTED CEILING PLAN
- A5.2 2ND FLOOR REFLECTED CEILING PLAN
- 3RD FLOOR REFLECTED CEILING PLAN A5.3
- A6.I DOOR SCHEDULE
- DOOR SCHEDULE A6.2
- FI.I ROOM FINISH SCHEDULE ROOM FINISH SCHEUDLE / MATERIAL SCHEDULE FI.2
- F2.1 FLOOR FINISH PLANS

STRUCTURAL DRAMING

STRUCTURAL DRAWINGS:	<i>D</i> . 1
STRUTURAL DIVERTINOS:	<u>4. PERCE</u>
SO, I STRUCTURAL GENERAL NOTES	A. 9
SO.2 SCHEDULES	B. C
SO.3 SHEAR WALL SCHEDULE	SUR WAL
SO.4 TYPICAL SECTIONS	
SI, FIRST FLOOR FOUNDATION PLAN	C. C AD
SI.2 SECOND FLOOR FRAMING PLAN	D. C
SI.3 THIRD FLOOR FRAMING PLAN	E. M
SI.4 ROOF FRAMING PLAN	F. C
S2.1 FOUNDATION SECTIONS	SUR
S2.2 FOUNDATION SECTIONS	G. C
S3.1 SECTIONS	H. C
S3.2 SECTIONS	1. 00
S3.3 SECTIONS	<u>5. TOLER</u>
	A. 9
MEP DRAWINGS:	B. P
	C. V
MPEO.I SYMBOLS LEGEND	D. L
MPELO MPE ROOF PLAN	<u>6. LOW F</u>
MPELI MPE SITE PLAN	A. F
MI,I FIRST FLOOR MECHANICAL PLAN	B. C
MI.2 SECOND & THIRD FLOOR MECHANICAL PLAN	C.S ENF
M4.1 ENLARGED MECHANICAL PLANS	
M4.2 ENLARGED MECHANICAL PLANS	D. N <u>7. SIZE </u> \$
M5.1 MECHANICAL DETAILS	<u>7. 512L 4</u> A. 3
M6.1 MECHANICAL SCHEDULES	А В. 6
PO.I FIRST FLOOR BELOW GRADE PLUMBING PLAN	ACC
PI.I FIRST FLOOR ABOVE GRADE PLUMBING PLAN	С. 4
PI.2 SECOND & THIRD FLOOR PLUMBING PLAN	D. F
P4.1 ENLARGED PLUMBING PLANS	E. 2
P4.2 ENLARGED PLUMBING PLANS	F. B
P5.1 PLUMBING SCHEDULES & DETAILS	G. A
P6.1 PLUMBING RISER DIAGRAMS	WOF
FPI.I FIRE PROTECTION PLANS	H. T
EI.I FIRST FLOOR LIGHTING PLAN	48"
EL2 SECOND FLOOR LIGHTING PLAN	I. S I EXC
	2/0

TO THE BEST OF MY KNOWLEDGE THIS PROJECT COMPLIES THE WITH INTERNATIONAL ENERGY CODE AS APPLIED TO THIS STRUCTURE.

SWD ARCHITECTS INC

- 315 NICHOLS RD., SUITE 228 KANSAS CITY, MO 64112 CREASON DEVELOPMENT TAMMI CREASON 1900 LARK LANE NIXA, MO 65714 OLYMPUS CONSTRUCTION INC.
- TONY PARDEW 2506 W. WASHINGTON JONESBORO, AR 72401
- MHDC 920 MAIN, SUITE 1400 KANSAS CITY, MO 64105

ARCHITECT - SIGNATURE - - DATE

OWNER - SIGNATURE - - DATE

CONTRACTOR - SIGNATURE - - DATE

SIGNATURE - - DATE

TIM WILSON AIA

E2.I FIRST FLOOR POWER PLAN E2.2 SECOND & THIRD FLOOR POWER PLAN

- E3.1 FIRST FLOOR SPECIAL SYSTEMS PLAN
- E3.2 SECOND & THIRD FLOOR SPECIAL SYSTEMS PLAN
- E4.1 ENLARGED LIGHTING PLANS
- E4.2 ENLARGED LIGHTING PLANS
- E4.3 ENLARGED POWER PLANS
- E4.4 ENLARGED POWER PLANS
- E5.I ELECTRICAL RISER DIAGRAM & DETAILS
- E6.1 ELECTRICAL SCHEDULES
- E6.2 ELECTRICAL SCHEDULES

THIS PROJECT COMPLIES W/ THE FOLLOWING MHDC UNIVERSAL DESIGN:

I. EQUITABLE USE:

A. MINIMUM 36" DOOR W/ A NO-STEP ENTRY @ ACCESSIBLE ENTRIES. B. PROVIDE 60" ROTATION MANEUVERING SPACE ON EXTERIOR & INTERIOR LATCH SIDE OF ACCESSIBLE ENTRIES, W/ 18" MIN. FRONT APPROACH CLEARANCE AT LATCH SIDE.

C. FLAT LANDING SURFACES LEADING TO DOORWAYS & AT BOTH SIDES OF ALL ACCESSIBLE ENTRY DOORWAYS. D. NO THRESHOLDS AND/OR CHANGE OF WALKING SURFACE GREATER THAN 1/2" RISE.

E. CONTINUOUS ACCESSIBLE PATH, MIN. 42" WIDTH FROM PARKING & PUBLIC ACCESS TO THE UNIT, MAX. 1:20 SLOPE.

F. PATIO OR DECK LANDING @ THE SAME LEVEL AS INTERIOR FLOOR @ ACCESSIBLE ENTRY DOORS. G. MAIL BOXES TO BE AT AN ACCESSIBLE LOCATION ON THE ACCESSIBLE ROUTE. H. LEVER ACTION DOOR HARDWARE.

2. FLEXIBILITY IN USE:

A. 24" BLOCKING OR PLYWOOD SUBSTRATE IN BATHROOMS FOR FUTURE GRAB BARS WHERE NEEDED, HORIZONTAL & VERTICAL @ ALL TOILETS, SHOWERS & TUBS, AROUND TOILETS, SUBSTRATE UP TO 42" AFF. ALL SHOWERS HAVE INTEGRAL BLOCKING FOR THE LATER ADDITION OF GRAB BARS. B. ALL ELECTRICAL DEVICES & ENVIRONMENTAL CONTROLS TO BE MOUNTED BETWEEN 15" & 48" AFF.

3. SIMPLE & INTUITIVE: A. LEVER ACTION OR GRIP FRIENDLY PLUMBING FIXTURES, TRIM, CONTROLS, DOOR & CABINET HARDWARE.

B. BUTTONS ON CONTROL PANELS THAT CAN BE DISTINGUISHED BY TOUCH. C. FRONT MOUNTED CONTROLS ON APPLIANCES, 15" - 48" AFF.

D. THERMOSTAT CONTROLS THAT ARE USER FRIENDLY TO ADJUST BY FEEL & READ EASILY. CEPTIBLE INFORMATION:

SIGNAGE WITH COLOR CONTRASTING PRINT IN ADDITION TO GENERALLY RECOGNIZED ICONS. CREATE COLOR OR TEXTURE CONTRAST BETWEEN LIGHT SWITCHES / WALL OUTLETS \$ RROUNDING SURFACES AS WELL AS CONTRASTING COLORS BETWEEN COUNTERTOPS & FLOORING &

, COLOR CONTRAST OR TEXTURE CHANGE BETWEEN WET ROOMS (BATH, LAUNDRY, KITCHEN) \sharp JOINING SPACES.

CONTRASTING LIT DOORBELL OR INTERNAL LIGHT WHEN A DOORBELL IS INSTALLED. MIN. 4" HIGH HOUSE NUMBERS POSTED IN CONTRASTING COLORS.

CONTRASTING COLORS BETWEEN WIRING DEVICES (RECEPTACLES & LIGHT SWITCHES) & RROUNDING SURFACES . CONTRASTING COLORS BETWEEN STEPS, LANDING OR LIVING SPACE.

. CONTRASTING COLORS BETWEEN DIFFERENT FLOOR COVERING. CONTRASTING COLORS BETWEEN PLUMBING FIXTURES & FLOORING/COUNTERTOPS.

ERANCE FOR ERROR:

. SLIP-RESISTANT SURFACES, ESPECIALLY IN BATHROOMS, KITCHENS & ENTRY AREAS. PROVIDE FOR EASE OF MAINTENANCE OF ALL FLOORING VENTILATION TO MEET CURRENT ASHRAE 62.2 STANDARD WHERE APPLICABLE.

. LIGHT SWITCHES W/ LARGE FLAT PADS.

NPHYSICAL EFFORT: PROVIDE MIN. OF ONE LOW THRESHOLD SHOWER ON PRIMARY LEVEL. . ONE OPERABLE WINDOW IN EACH BEDROOM & LIVING ROOM W. 36" MAXIMUM SILL HEIGHT.

. SELF-CLOSING FIRE RATED DOORS MUST BE ON LOWEST SETTING WHILE COMPLYING WITH FORCED BUILDING CODE. . NO INTERIOR RAMPS.

E & SPACE FOR APPROACH & USE:

A. 36" MIN. WIDTH DOORS. 3. 60: CLEAR TURNING SPACE PROVIDED IN AT LEAST ONE BATHROOM \$ IN KITCHEN; 60" T-TURNS CCEPTABLE WHERE CONDITIONS WARRANT.

2. 42" WIDE RESIDENTIAL UNIT IN COMMON HALLWAYS.

PROVIDE FOR PARALLEL OR FRONT APPROACH TO ALL SINKS & APPLIANCES.

. 20% OF STORAGE SPACE WITHIN 15"-48" REACH AFF.

. BOTTOM OF BATHROOM MIRROR WITHIN 40" AFF.

ALLOW KNEE CLEARANCE BELOW ONE LAVATORY & BELOW 30"-32" HEIGHT KITCHEN ORKSTATION WHICH MAY BE A PULL-OUT ACCESSORY

TOILET SET A MIN. OF 18" OFF ONE SIDEWALL FROM TOILET CENTER IN A SPACE THAT IS AT LEAST "WIDE ON ACCESSIBLE UNITS ONLY.

SHOWER CONTROLS ON NEAREST WALL TO OPENING AT 15"-48" AFF, CONTROLS SETBACK NOT TO (CEED 15".

ARCHITECT ACKNOWLEDGES AND COMPLIES WITH THE MHDC FORM 1200 FOR DESIGN/CONSTRUCTION

UNIT TABULATION

IST FLOOR: 6 IB-Ib 5_2B-2b 2ND FLOOR: 6 IB-Ib 9.2B-2b 3RD FLOOR: 6 IB-Ib 9.2B-2b TOTAL UNITS: 41 UNITS

IB-Ib = 628 NSF EACH 2B-2b = 953 NSF / 960 NSF EACH

TOTAL UNIT NSF = 33,349 NSF

TOTAL OFFICE NSF = 858 NSF 2 UNITS ARE TYPE 'A' COMPLIANT 39 UNITS ARE ADAPTABLE TYPE 'B' COMPLIANT TOTAL PARKING = 74, UNCOVERED \$ 2 ARE ACCESSIBLE

PROJECT TEAM

ARCHITECT

STARK WILSON DUNCAN ARCHITECTS INC. 315 NICHOLS ROAD, SUITE 228 KANSAS CITY, MISSOURI 64112 TEL 816 531 1698 FAX 816 531 1978

STRUCTURAL

BOB D. CAMPBELL 4338 BELLEVIEW KANSAS CITY, MO 64111 TEL 816 531 4144 FAX 816 531 8572

MECHANICAL, ELECTRICAL & PLUMBING ENGINEER

HOSS & BROWN ENGINEERS INC. 11205 WEST 79TH STREET LENEXA, KANSAS 66214 TEL 913 362 9090 FAX 913 362 9696

CIVIL

ANDERSON ENGINEERING, INC. 2045 W. WOODLAND. SPRINGFILED, MO 65807 TEL 417 866 2741

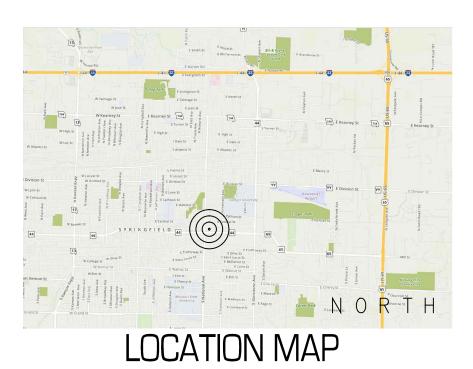
DEVELOPER

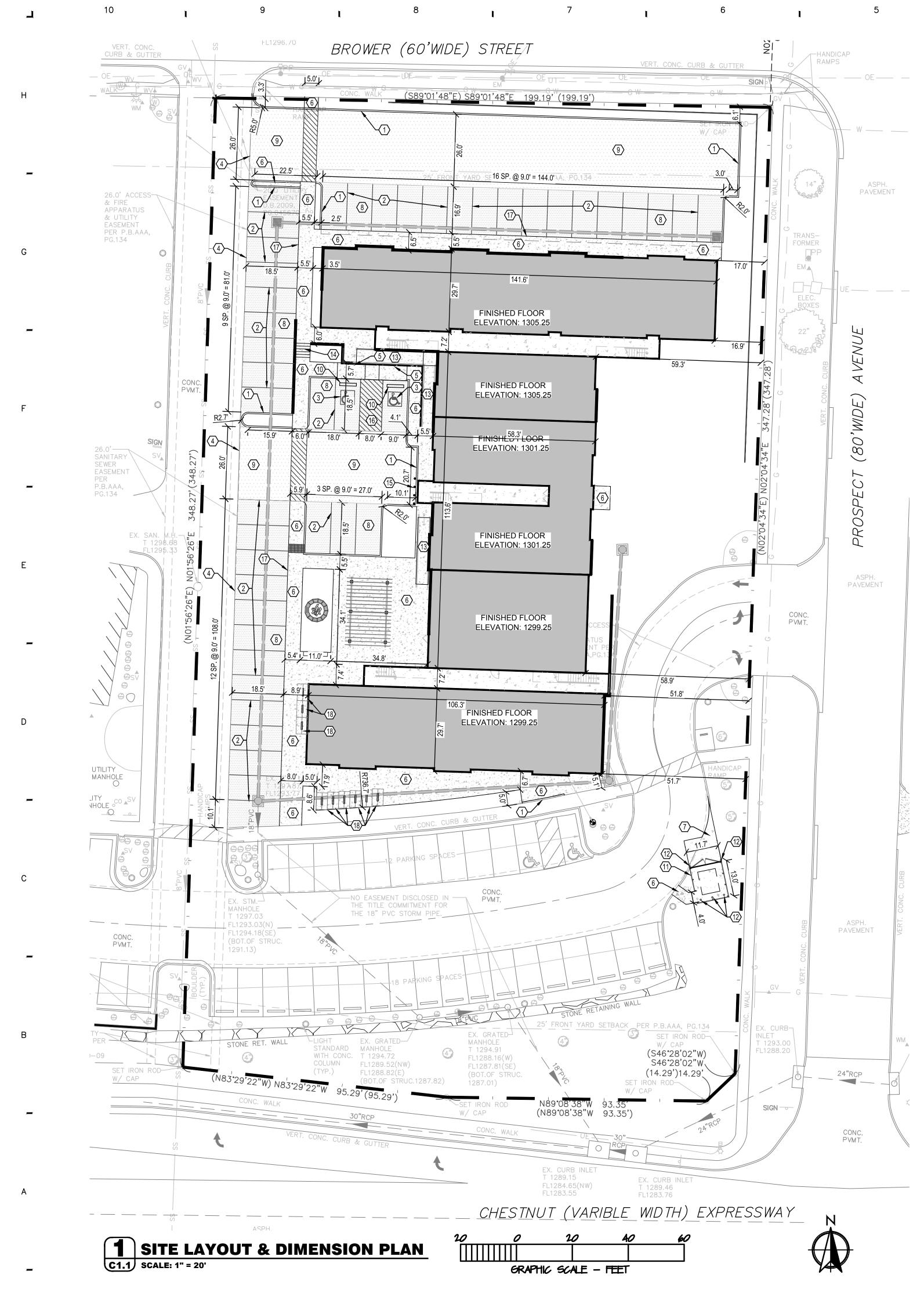
CREASON DEVELOPMENT 1900 E. LARK LANE NIXA, MISSOURI 65714 TEL 417 224 3035

GENERAL CONTRACTOR

OLYMPUS CONSTRUCTION, INC. 2506 W. WASHINGTON JONESBORO, ARKANSAS 7240 TEL 870 932 6670 FAX 870 932 0856

ISSUE DATE: 02.04.2019





GENERAL NOTES:

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SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.

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- THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY
- CONSTRUCTION 4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
- ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
- THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
- 10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS 11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM

CAUTION:

NECESSARY TO AVOID DAMAGE THERETO.

FACE OF DOOR. 12. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

OPEN SPACE REQUIREMENT:

TOTAL SITE AREA = 1.62 ACRES IMPERVIOUS AREA = 1.21 ACRES

PERVIOUS = 0.41 ACRES

OPEN SPACE PERCENTAGE = 25% > 20% REQUIREMENT

KEY NOTES:

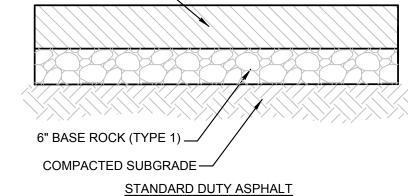
- $\langle 1 \rangle$ NEW CURB AND GUTTER PER DETAIL 3/C1.2.
- $\langle 2 \rangle$ STRIPING TO BE 4" HI-VIS WHITE PER CITY OF SPRINGFIELD STANDARDS AND SPECS.
- 3 INSTALL ADA ACCESSIBLE SYMBOL PER DETAIL 4/C1.2.
- $\langle 4 \rangle$ MATCH NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
- 5 INSTALL ADA WALL MOUNTED SIGNAGE OR ADA POLE MOUNTED SIGNAGE PER DETAIL 7/C1.2 AND 8/C1.2. TO BE DETERMINED BY OWNER.
- $\overline{6}$ NEW SIDEWALK REFER TO DETAIL 2/C1.2.
- $\langle 7 \rangle$ NEW HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 1/C1.2.
- $\langle 8 \rangle$ NEW STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 2/C1.1.
- $\langle 9 \rangle$ NEW HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 3/C1.1.
- (10) INSTALL CONCRETE PARKING BLOCK PER DETAIL 6/C1.2.
- COMPOSITE TRASH PAD ENCLOSURE PER OWNER. REFER TO DETAILS 10/C1.2 AND 11/C1.2.
- (12) INSTALL 5 BOLLARDS IN TRASH PAD ENCLOSURE PER DETAIL 9/C1.2.
- (13) PROPOSED RAMP WITH HANDRAILS. REFER TO ARCHITECTURAL PLANS.
- (14) PROPOSED STAIRS. REFER TO ARCHITECTURAL PLANS.
- (15) INSTALL BOLLARD PER DETAIL 9/C1.2.
- HANDICAP ACCESS UNLOADING ZONE: HANDICAP ACCESS UNLOADING ZONE. SLOPE 2% MAX. EACH WAY (ADA COMPLIANT) AND STRIPE AS SHOWN 4" STRIPES @ 24" O.C. AT 45 DEGREES. PAINT COLOR TO BE PER THE AUTHORITY HAVING JURISDICTION.
- (17) TURNDOWN SIDEWALK ADJACENT TO PAVEMENT. REFER TO DETAIL 5/C1.2.
- (18) INSTALL BIKE RACK PER DETAIL 7/C1.4.

REQUIRED PARKING:

REQUIRED SPACES FROM 10% PARKING REDUCTION

PROVIDED PARKING: BIKE PARKING PROVIDED

3.0" SURFACE MIX, BP-2 BITUMINOUS PAVEMENT



GENERAL NOTES:

- 1. A CBR VALUE OF 3.0 WAS USED IN THE DESIGN OF THE PAVEMENT SECTION. THE CONTRACTOR SHALL CONTACT ANDERSON ENGINEERING TO TEST THE SOILS TO CONFIRM A CBR=3 IS PRESENT FOR THE MATERIALS USED.
- 2. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK. 3. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY
- DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8". 4. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF BASE ROCK
- MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR). 5. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT BASE MIX SHALL BE BETWEEN 3" AND 4 1/4" WITH EACH LAYER
- COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY (ASTM D1559) 6. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT SURFACE MIX SHALL NOT EXCEED 2 INCHES FOR THE SURFACE COURSE WITH EACH LAYER COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY
- (ASTM D1559). 7. A MAINTENANCE PROGRAM THAT INCLUDES SURFACE SEALING, JOINT CLEANING AND SEALING AND TIMELY REPAIR OF CRACKS AND DETERIORATED AREAS WILL
- HELP PRESERVE THE PAVEMENT LIFE. CARE MUST BE TAKEN TO DEVELOP POSITIVE DRAINAGE ACROSS AND FROM AROUND THE PAVEMENT EDGES. WATER ALLOWED TO POND ON OR ADJACENT TO PAVEMENTS WOULD INCREASE THE POTENTIAL FOR MOSTURE INTRUSTION INTO
- THE SUBGRADE SOILS AND COULD RESULT IN PREMATURE PAVEMENT FAILURE. THE PLANT MIX BITUMINOUS PAVEMENT SURFACE & BASE MIXES SHOULD MEET THE REQUIREMENTS OF SECTION 401 OF THE MODOT STANDARD SPECIFICATIONS.
- 10. THE BASE ROCK SHOULD MEET SECTION 1007 FOR TYPE 1 AGGREGATE OF THE MODOT STANDARD SPECIFICATIONS.



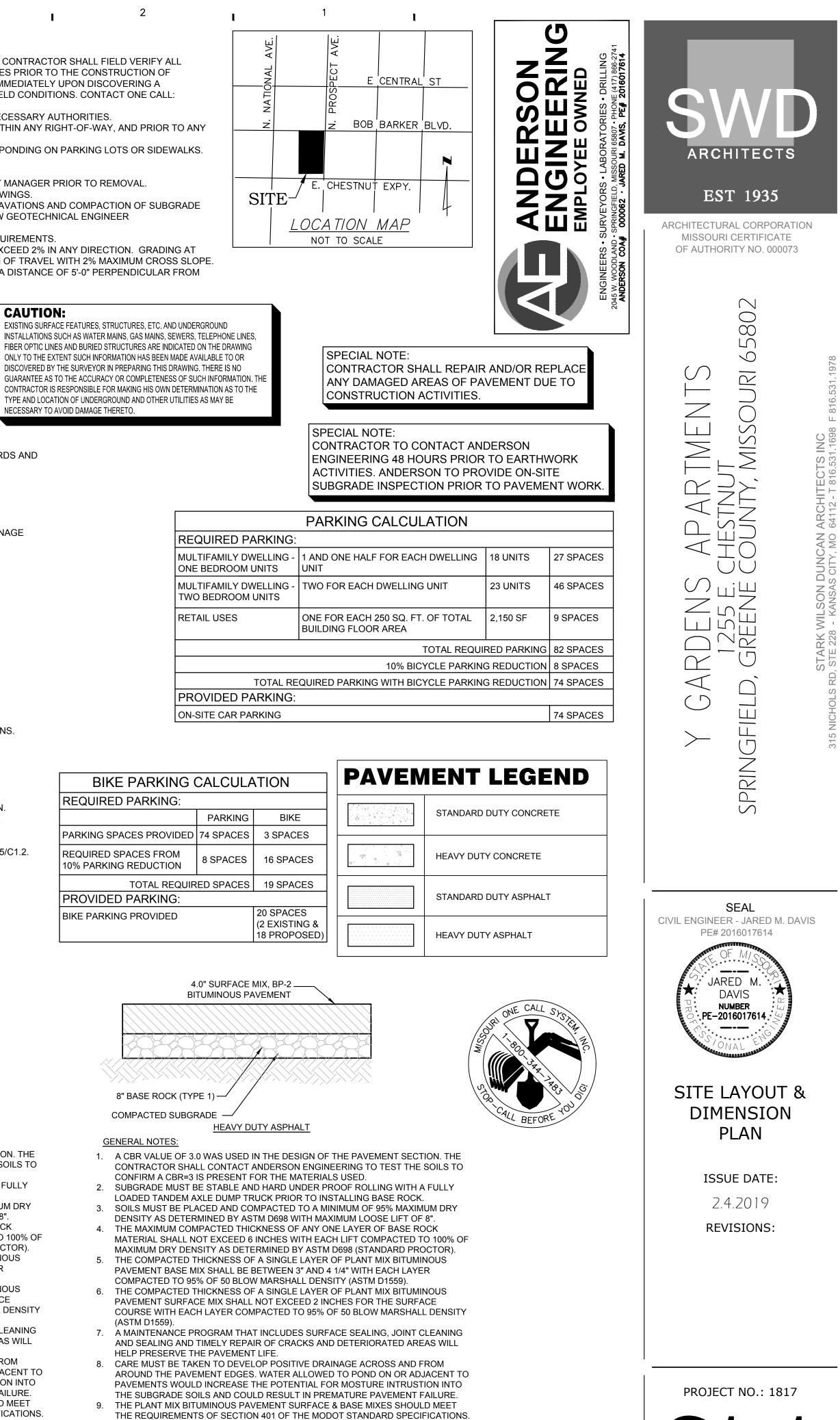
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- 10. THE BASE ROCK SHOULD MEET SECTION 1007 FOR TYPE 1 AGGREGATE OF THE MODOT STANDARD SPECIFICATIONS.



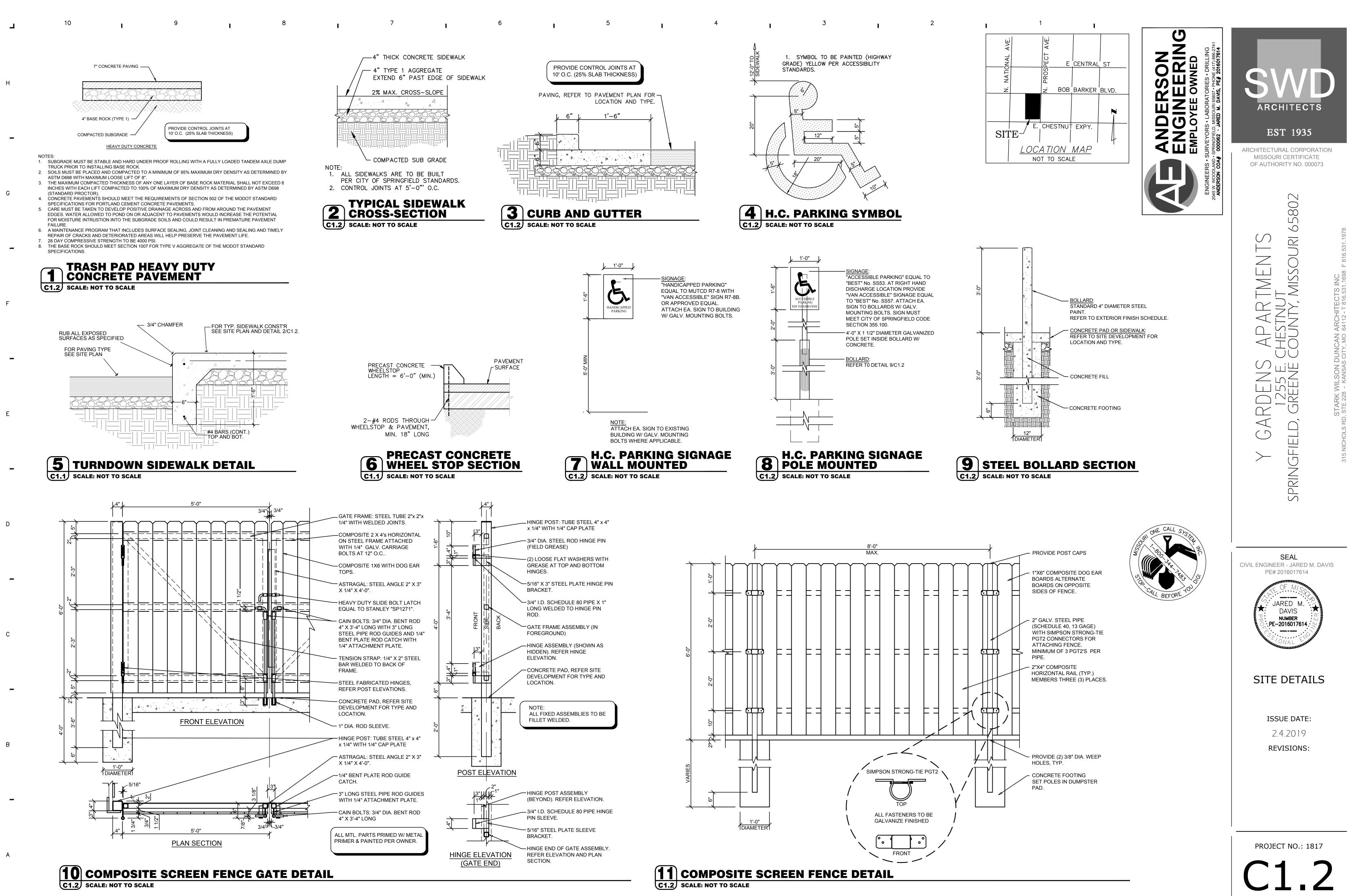


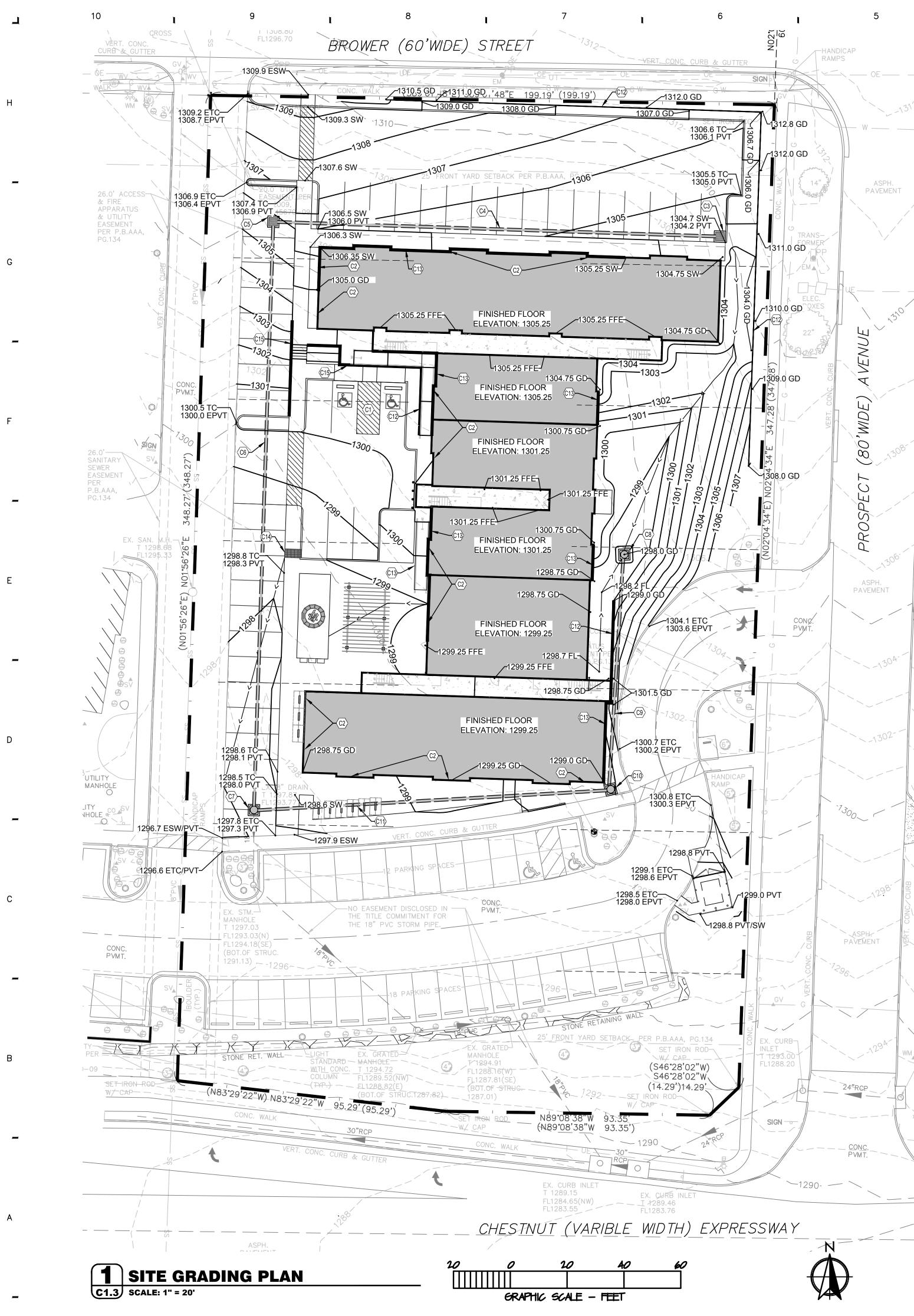


3 HEAVY DUTY ASPHALT

C1.1 SCALE: NOT TO SCALE







GENERAL NOTES:

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1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483. 2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES. 3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY

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- CONSTRUCTION. 4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS. 5. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
- 6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.

- 7. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL. 8. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- 9. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
- 10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS 11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.

SAFETY NOTES:

- 1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

STAGES OF CONSTRUCTION:

- 1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED
- IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER
- WITH ANY CONFLICTS.
- 2. INSTALLATION OF CONSTRUCTION ENTRANCE 3. INSTALLATION OF EROSION CONTROL FENCE.
- 4. IMPLEMENTATION OF STORMWATER POLLUTION PREVENTION PLAN.
- 5. DEMOLITION OF EXISTING SITE IMPROVEMENTS, IF REQUIRED.
- 6. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS. 7. ROUGH GRADING.
- 8. CONSTRUCTION OF NEW SITE IMPROVEMENTS.
- 9. FINAL GRADING.
- 10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD. 11. REMOVAL OF EROSION AND SEDIMENT CONTROL ITEMS.

KEY NOTES:

- (1) ADA PARKING AND SIDEWALK. REFER TO DETAIL 1/C1.4 FOR DETAILED GRADING PLAN.
- (2) TIE ALL DOWNSPOUTS TO ADJACENT STORM PIPE AT FLOW LINE. REFER TO DETAIL 2/C1.4.
- (C3) INSTALL 4' X 4' GRATED INLET. RIM = 1304.2', INV = 1301.2' REFER TO DETAIL 3/C1.4.
- (A) INSTALL 156 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
- (C5) INSTALL 4' X 4' JUNCTION BOX. RIM = 1305.9', INV = 1300.4' REFER TO DETAIL 4/C1.4.
- C6 INSTALL 206 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
- REMOVE EXISTING 8" DRAIN AND INSTALL 4' X 4' JUNCTION BOX ON EXISTING 18"Ø PIPE. RIM = 1297.2', EXISTING PIPE INV = 1293.77' PIPE C6 / C11 INV = 1293.8' REFER TO DETAIL 4/C1.4.
- (B) INSTALL 4' X 4' AREA INLET. RIM = 1299.25', GRADE = 1298.0' INV = 1295.0' REFER TO DETAIL 5/C1.4.
- (INSTALL 82 LF OF 18"Ø PIPE. REFER TO PIPE NOTES.
- (1) INSTALL 4' X 4' JUNCTION BOX. RIM = 1300.0', INV = 1294.5' REFER TO DETAIL 4/C1.4.
- INSTALL 124 LF OF 18"Ø PIPE. (1) REFER TO PIPE NOTES.
- (1) MODULAR BLOCK RETAINING WALL TO BE DESIGNED/BUILD BY RETAINING WALL CONTRACTOR. GLOBAL STABILIZATION / **GEO-GRID DESIGN / INSTALLATION BY** SUBCONTRACTOR AS REQUIRED.
- STEM WALL BY OTHERS. REFER TO STRUCTURAL.
- INSTALL 3' WIDE CONCRETE FLUME WITH 4' WIDE STEEL TREADPLATE THROUGH SIDEWALK. REFER TO DETAIL 6/C1.4.
- CONCRETE RETAINING WALL BY OTHERS. ^{C15} REFER TO STRUCTURAL.

CAUTION:

EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS O SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:

CONNECTIONS INTO PUBLIC STORMWATER

SPECIAL NOTE:

ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

SPECIAL NOTE:

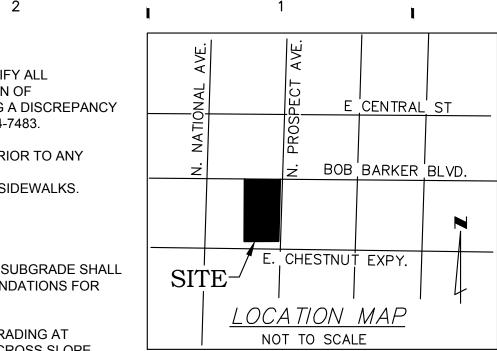
GRADES MATCH EXISTING PAVEMENT AT AND ALL CONNECTION POINTS PRIOR TO NOTIFY ENGINEER IF DISCREPANCY OCCURS.

SPECIAL NOTE:

CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.

SPECIAL NOTE:

CONTRACTOR TO OBTAIN A STORMWATER DETENTION PERMIT PRIOR TO BEGINNING WORK. PERMIT CAN BE OBTAINED THROUGH BUILDING DEVELOPMENT SERVICES.



PIPES NOTES:

- 1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), CORRUGATED METAL PIPE (CMP), OR HIGH DENSITY POLYETHYLENE (HDPE) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
- 2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER. REFER TO MANUFACTURER FOR MATERIAL SPECIFICATIONS FOR TRAFFIC LOADING AND INSTALLATION REQUIREMENTS.

STORMWATER SUMMARY:

TOTAL PROPERTY AREA = 1.62 ACRES TOTAL DISTURBED AREA = 0.98 ACRES < 1.0 ACRES, THEREFORE NO WATER QUALITY OR CITY/STATE LAND DISTURBANCE PERMIT REQUIRED.

EXISTING DRAINAGE AREA SUMMARY: PERVIOUS AREA: 1.21 ACRES **IMPERVIOUS AREA: 0.41 ACRES**

DEVELOPED DRAINAGE AREA SUMMARY: PERVIOUS AREA: 0.41 ACRES **IMPERVIOUS AREA: 1.21 ACRES**

DEVELOPED SITE IMPERVIOUS AREA > EXISTING SITE IMPERVIOUS AREA, THEREFORE A STORMWATER DETENTION BUYOUT HAS BEEN OBTAINED.

BENCHMARK

CUT SQUARE ON TOP OF NORTH SIDE OF CONC. COLUMN FOR LIGHT STANDARD. ELEV.=1300.05 FT. VERTICAL DATUM = NAVD 1988.

CONTRACTOR MUST OBTAIN AN EXCAVATION PERMIT FROM TRAFFIC ENGINEERING FOR DIRECT FACILITIES PRIOR TO PERFORMING THE WORK

FIELD VERIFY SANITARY SEWER AND STORM SEWER CONNECTION INVERT PRIOR TO

CONTRACTOR SHALL FIELD VERIFY PROPOSED DRIVEWAY ENTRANCES, SIDEWALK CONNECTIONS, BEGINNING CONSTRUCTION. CONTRACTOR SHAL

SYMB	OLS LEG	END
	RVEY FOR EXISTING CON EGEND AND SITE CONTR	
—1301—	EXISTING GRADE LINES	
<u> </u>	PROPOSED NEW GRADE	LINES
	NEW BUILDING CON	ISTRUCTION
-	FLOW DIRECTION A	RROW
	DRAINAGE SWALE	
* 1301.0 PVT	NEW SPOT ELEVATIONS LIST GRADE SIDEWALK TOP OF WALL TOP OF CURB TOP OF PAVEMENT NEW GRADE CONCRETE EXISTING TOP OF CURB EXISTING GRADE EXISTING GRADE EXISTING PAVEMENT EXISTING SIDEWALK LADOT PAVEMENT (+3.5") FLOW LINE TOP OF BERM	ABBREVIATION NONE SW TW TC PVT GD CONC ETC EGD EPVT ESW NPVT FL TOP



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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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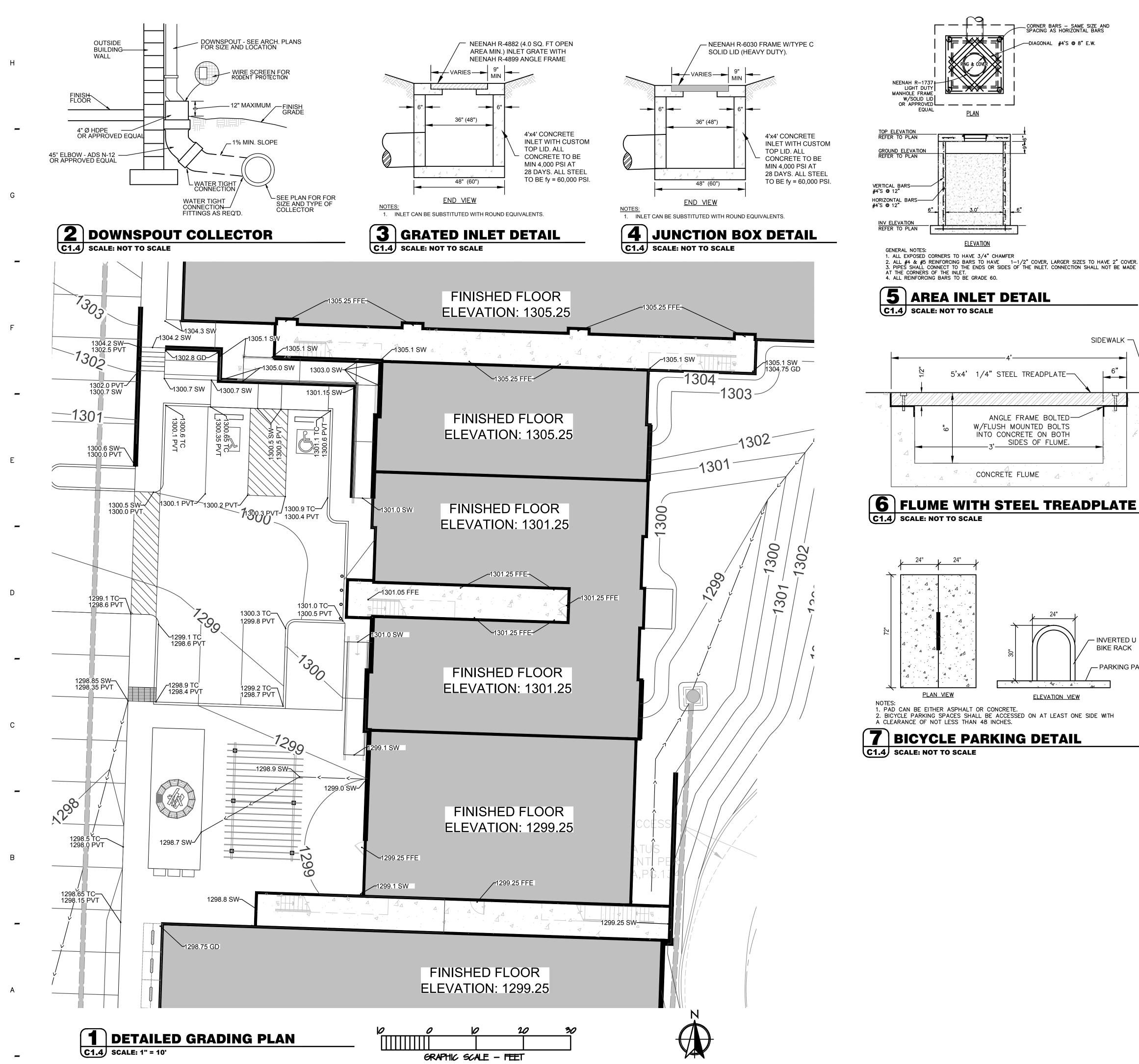
SEAL CIVIL ENGINEER - JARED M. DAVIS PE# 2016017614



SITE GRADING PLAN

> **ISSUE DATE:** 2.4.2019 **REVISIONS:**





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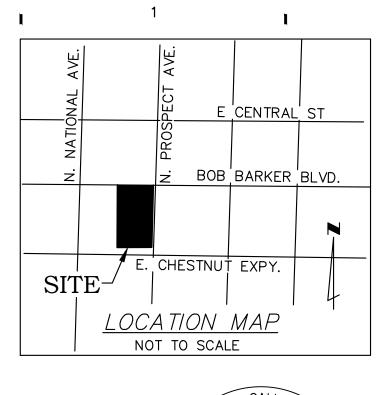
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ARCHITECTURAL CORPORATION

MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



ON DUNCAN ARCHITECTS INC VSAS CITY, MO 64112 - T 816.531.169

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SEAL CIVIL ENGINEER - JARED M. DAVIS PE# 2016017614 _---JARED M. DAVIS NUMBER



SITE GRADING DETAILS

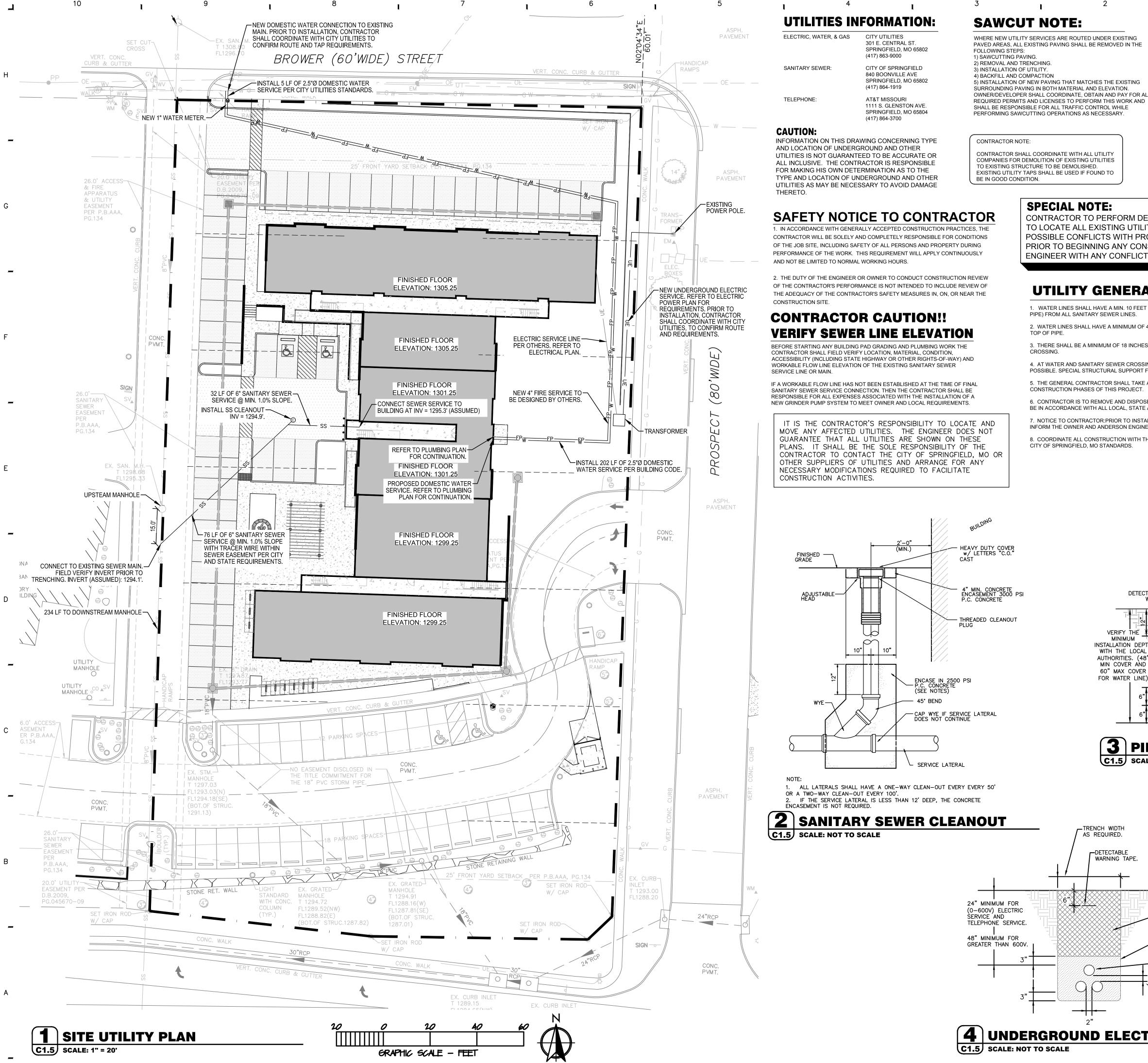
> **ISSUE DATE:** 2.4.2019 **REVISIONS:**



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– PARKING PAD





WHERE NEW UTILITY SERVICES ARE ROUTED UNDER EXISTING PAVED AREAS, ALL EXISTING PAVING SHALL BE REMOVED IN THE

5) INSTALLATION OF NEW PAVING THAT MATCHES THE EXISTING SURROUNDING PAVING IN BOTH MATERIAL AND ELEVATION. OWNER/DEVELOPER SHALL COORDINATE, OBTAIN AND PAY FOR ALL

SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL WHILE PERFORMING SAWCUTTING OPERATIONS AS NECESSARY.

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR DEMOLITION OF EXISTING UTILITIES TO EXISTING STRUCTURE TO BE DEMOLISHED. EXISTING UTILITY TAPS SHALL BE USED IF FOUND TO

> **SPECIAL NOTE:** CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.

1. WATER LINES SHALL HAVE A MIN. 10 FEET HORIZONTAL CLEARANCE AND 18 INCHES VERTICAL CLEARANCE (MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE) FROM ALL SANITARY SEWER LINES. 2. WATER LINES SHALL HAVE A MINIMUM OF 48 INCHES OF COVER, UNLESS OTHERWISE NOTED, MEASURED FROM THE TOP OF FINISHED GROUND TO THE

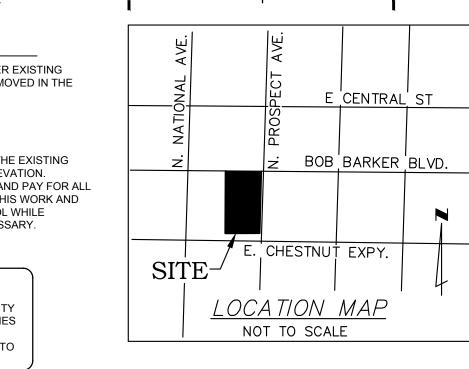
3. THERE SHALL BE A MINIMUM OF 18 INCHES CLEARANCE MEASURED FROM THE BOTTOM OF ANY STORMWATER PIPE TO THE TOP OF WATER LINES AT ALL

4. AT WATER AND SANITARY SEWER CROSSINGS, THE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

5. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

6. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND /OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

CITY OF SPRINGFIELD, MO STANDARDS.







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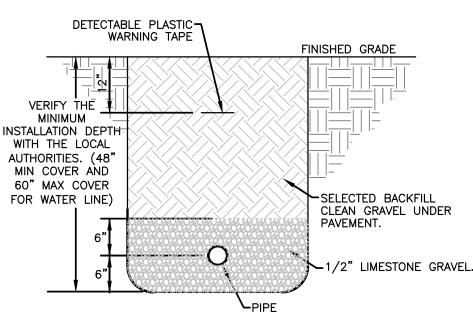
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UTILITY GENERAL NOTES

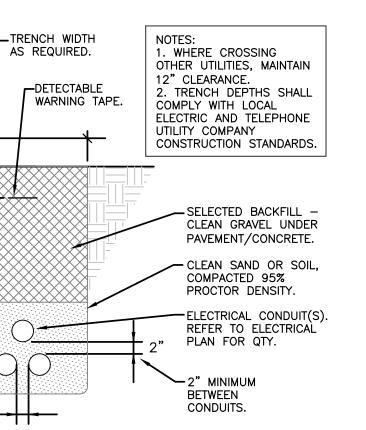
7. NOTICE TO CONTRACTOR: PRIOR TO INSTALLATION OF WATER LINE, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND ANDERSON ENGINEERING OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

8. COORDINATE ALL CONSTRUCTION WITH THE CITY OF SPRINGFIELD. ALL SANITARY SEWER AND WATER LINE CONSTRUCTION MUST COMPLY WITH THE





3 **PIPE INSTALLATION DETAIL** C1.5 SCALE: NOT TO SCALE



UNDERGROUND ELECTRICAL CONDUITS

NEW UTILITIES SYMBOLS (SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)						
G	GAS SERVICE					
w	WATER SERVICE					
FS	FIRE SERVICE					
ss	SANITARY SEWER SERVICE					
	U/G ELECTRIC					
UT	U/G PHONE					
T	U/G PHONE (BY PHONE CO.)					
OHE	OVERHEAD ELECTRIC					
—— ОНТ ——	OVERHEAD PHONE					
FO	FIBER OPTIC CABLE					
	SAW CUT					
41111111	BORE					
P.O.C. = POINT OF CONNECTION BETWEEN SITE PIPING (SPEC 33 00 00) AND BUILDING PIPING (SPEC 22 00 00, 21 13 13). AS NECESSARY - SPEC 22 00 00 DENOTES LANDSCAPE IRRIGATION.						

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SEAL CIVIL ENGINEER - JARED M. DAVIS PE# 2016017614



SITE UTILITY PLAN

> **ISSUE DATE:** 2.4.2019 **REVISIONS:**





LAND DISTURBANCE SUMMARY:

TOTAL PROPERTY AREA= 1.62 ACRES TOTAL DISTURBED AREA = 0.98 ACRES

OWNER:

TAMMI CREASON CREASON DEVELOPMENT 1900 E LARK LANE NIXA, MO 65714 P: (417) 224-3035



EROSION CONTROL & MAINTENANCE PLAN NOTES:

- CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE. 2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF
- EROSION CONTROL MEASURES. 3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION
- 4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE. 5. CARE SHALL BE TAKEN TO ELIMINATE TO THE MAXIMUM EXTENT POSSIBLE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED . REMOVE SEDIMENT DEPOSITS AS NECESSARY AFTER EACH STORM TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. CARE NEEDS TO BE TAKEN TO AVOID UNDERMINING THE FENCE WHEN
- REMOVING SEDIMENT. SEDIMENT IS TO BE REAPPLIED TO THE SITE AND STABILIZED. 7 ALL GRASS SLOPES WHICH EXCEED 3:1 (H-V) AND SELECT PIPE OUTEALLS SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURE REINFORCEMENT MATS 450 OR APPROVED FOUAL MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS, CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER. 8. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARD GENERAL CONIDTIONS AND TECHNICAL SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION FOR THE C
- 9. APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION. 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS. 11. THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SUBDIVISION NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED. 12. IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY FOR THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN
- DURING ALL CONSTRUCTION. 13 ALL DISTURBED AREAS ARE TO BE RESERVED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE CITY OF SPRINGFIELD DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS 14. PROVIDE TEMPORARY EROSION CONTROL TO CONTAIN ALL SOILS ON SITE, COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION
- 15. THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS (PIPES) SHALL BE FUNCTIONING PRIOR TO STARTING ANY OTHER CONSTRUCTION ACTIVITIES. I.E., ONLY CONSTRUCTION ACTIVITIES REQUIRED TO INSTALL THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) ARE ALLOWED UNTIL THESE ITEMS ARE INSTALLED AND APPROVED. 16 CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN
- 17. PRIOR TO CONSTRUCTION, THE OWNER SHALL CONVENE A PRE-CONSTRUCTION MEETING BETWEEN THE CITY OF SPRINGFIELD, CONSULTING ENGINEER, CONTRACTOR(S) AND ANY OTHER AFFECTED PARTIES. 18. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
- 19. CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT 20. CONTRACTOR TO TAKE CARE NOT TO DAMAGE ANY EXISTING STREET. CURB AND GUTTER. SIDEWALK AND DRIVEWAYS 21. THE CONTRACTOR SHALL HAVE A SET OF PLANS FILED WITH THE CITY OF SPRINGFIELD ON SITE. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERINTENDENT CAPABLE OF READING AND THOROUGHLY UNDERSTAND THE PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCE IN THE TYPE WORK BEING PERFORMED WHO SHALL RECEIVE INSTRUCTIONS FROMTHE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- 22. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR OF ANY NEW SINKHOLES DISCOVERED DURING CONSTRUCTION. 23. TEMPORARY CONSTRUCTION ENTRANCE TO HAVE SHOT ROCK FOR ITS SURFACE. 24. THE INSTALLATION OF SILT FENCE FOR CONSTRUCTION IS TO BE INSTALLED BY THE CONTRACTOR AND IN PLACE BEFORE BEGINNING SITE CONSTRUCTION. SIMILAR DEVICES MAY BE USED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF THE ENGINEER. DEVICES TO BE IN PLACE AS SHOWN ON THE PLANS. ADJUSTMENT OF THE LOCATION BY THE CONTRACTOR MAY BE DONE TO MEET EXISTING FIELD CONDITIONS. ALL CONTROLS ARE TO BE LACED WITHIN OWNER'S PROPERTY. ACCUMULATED

25. SILT FENCE SHALL BE PLACED AROUND ALL SOIL SPOIL PILES TO PREVENT EROSION. **SEEDING AND MULCHING NOTES**

INSTALL UPSTREAM BMPS TO PROTECT AREA TO BE SEEDED. COMPLETE GRADING AND REMOVE ALL DEBRIS LARGER THAN 1 INCH. LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. GROOVE OR FURROW ON THE CONTOUR IF NECESSARY. SPREAD LOOSE TOPSOIL AT A DEPTH OF 4 INCHES. MIX SOIL AMENDMENTS (LIME, FERTILIZER, ETC.) INTO THE TOP 4 INCHES OF SOIL. PLANT SEED 1/4 TO 1/2 INCHES DEEP USING A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER. ROLL LIGHTLY TO FIRM SURFACE. COVER SEEDED AREA WITH MULCH. INSTALL ADDITIONAL STABILIZATION (EROSION CONTROL BLANKETS, NETTING, BONDED FIBER MATRIX, ETC.) ON SLOPES STEEPER THAN 3:1 AND IN AREAS OF CONCENTRATED FLOW. WATER IMMEDIATELY-ENOUGH TO SOAK 4 INCHES INTO THE SOIL WITHOUT CAUSING RUNOFF.

TOPSOIL REQUIREMENTS

PERMANENT AND TEMPORARY SEEDING: LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. IF RAINFALL CAUSES SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING. SLOPES STEEPER THAN 33 PERCENT (3:1) GRADE SHOULD BE GROOVED OR FURROWED ON THE CONTOUR BEFORE SEEDING. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE AND UNIFORM. PERMANENT SEEDING: A MINIMUM OF 4 INCHES OF LOOSE TOPSOIL SHOULD BE SPREAD ON AREAS TO BE SEEDED

LIME REQUIREMENTS PERMANENT AND TEMPORARY SEEDING: LIME SHOULD BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH OF THE SOIL IS UNKNOWN, LIME SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT A RATE OF 1500 POUNDS EFFECTIVE NEUTRALIZING MATERIAL (ENM) PER ACRES. SOILS WITH A pH OF SIX OR HIGHER NEED NOT BE LIMED.

FERTILIZER REQUIREMENTS PERMANENT SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE A 13-13-13 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 500 POUNDS PER ACRE. TEMPORARY SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, A 10-10-10 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 200 POUNDS PER ACRE

PERMANENT SEEDING: SEED MIX SHALL CONSIST OF NINETY PERCENT (90%) TALL FESCUE AND TEN PERCENT (10%) ANNUAL RYEGRASS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 400 POUNDS PER ACRE. TEMPORARY SEEDING: SEED MIX SHALL CONSIST OF ANY COMBINATION OF TALL FESCUE, ANNUAL RYEGRASS, SUDAN, MILLET, WHEAT OR OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 200 POUNDS PER ACRE. DORMANT SEASON SEEDING: SEED MIX SHALL CONSIST OF 80 PERCENT (80%) TALL FESCUE, TEN PERCENT (10%) ANNUAL RYEGRASS AND TEN PERCENT (10%) SPRING OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE.

PERMANENT AND TEMPORARY SEEDING: WHERE SLOPES ARE LESS THAN 25 PERCENT (4:1) GRADE, CEREAL GRAIN MULCH IS REQUIRED AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET (4,500 LBS/ACRE). CEREAL GRAIN MULCH SHALL MEET THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI STATE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR TYPE I MULCH. WHERE SLOPES ARE 25 PERCENT (4:1) OR GREATER GRADE, TYPE 3 MULCH (HYDROMULCH) MEETING THE REQUIREMENTS OF SECTION 802 OF THE STATE SPECIFICATIONS SHALL BE USED. TYPE 3 MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 LBS/ACRE.

PERMANENT SEEDING: MARCH 1 TO JUNE 1 AND AUGUST 15 TO NOVEMBER 1

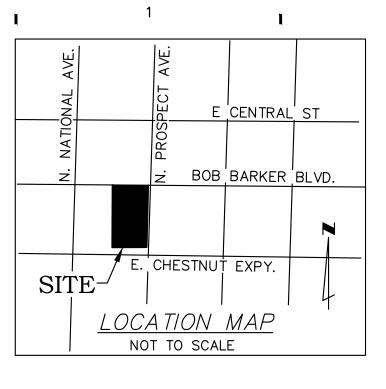
TEMPORARY SEEDING: CAN OCCUR DURING ANY SEASON, HOWEVER WINTER IS THE LEAST TOLERANT. DORMANT SEASON SEEDING: DECEMBER 15 TO FEBRUARY 29

TO SELECT APPROPRIATE HYDROSEEDING MIXTURES, AN EVALUATION OF SITE CONDITIONS SHALL BE PERFORMED WITH RESPECT TO: SOIL CONDITIONS, SITE TOPOGRAPHY, SEASON AND CLIMATE, VEGETATION TYPES, MAINTENANCE REQUIREMENTS, SENSITIVE ADJACENT AREAS, WATER AVAILABILITY, AND PLANS FOR PERMANENT VEGETATION. HYDROSEEDING CAN BE ACCOMPLISHED USING A MULTIPLE-STEP OR ONE-STEP PROCESS. THE MULTIPLE-STEP PROCESS ENSURES MAXIMUM DIRECT CONTACT OF THE SEEDS TO SOIL. WHEN THE ONE-STEP PROCESS IS USED TO APPLY THE MIXTURE OF SEED, FIBER, ETC., THE SEED RATE SHALL BE INCREASED TO COMPENSATE FOR ALL SEEDS NOT HAVING DIRECT CONTACT WITH THE SOIL. FOLLOW-UP APPLICATIONS SHALL BE MADE AS NEEDED TO COVER WEAK SPOTS.

KEY NOTES:

- $\underbrace{\text{E1}}_{\text{AREA} = 0.98 \text{ ACRES}} \underbrace{\text{LIMITS OF LAND DISTURBANCE. PERMITTED DISTURBED}}_{\text{AREA} = 0.98 \text{ ACRES}}$
- E2 INSTALL 12" COMPOST FILTER SOCK: OR APPROVED EQUAL. SEE DETAIL 1/C1.7.
- (E3) INSTALL TEMPORARY CONSTRUCTION EGRESS: COORDINATE LOCATION WITH CONTRACTOR. EGRESS REQUIRED AT ALL POINTS OF EGRESS FROM SITE TO PUBLIC RIGHT-OF-WAY. CONTRACTOR TO ADD ADDITIONAL EGRESS AS REQUIRED. SEE DETAIL 2/C1.7.
- AREAS TO BE VEGETATED: ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SEED AND STRAW MULCH, UNLESS OTHERWISE NOTED OVER MIN. 4" TOPSOIL STOCKPILED HAULED IN AS APPROVED BY THE PROJECT MANAGER. SEE SEEDING NOTES.
- (E5) INSTALL 10' X 10' CONCRETE WASHOUT AREA: VERIFY LOCATION WITH CONTRACTOR. SEE DETAIL 3/C1.7.
- INSTALL DUMPSTER AND CONTACT TRASH COMPANY (E6) FOR PICK UP
- ⟨ET⟩ INSTALL PORTABLE TOILET AND STAKE FIRMLY TO GROUND

- (E8) INSTALL INLET SEDIMENT FILTER PER DETAIL 4/C1.7.
- E9 LOCATION OF OUTFALL 001.
- ED TEMPORARY STOCKPILE LOCATION TO BE SURROUNDED BY 12" COMPOST FILTER SOCK. REFER TO DETAIL 1/C1.7.







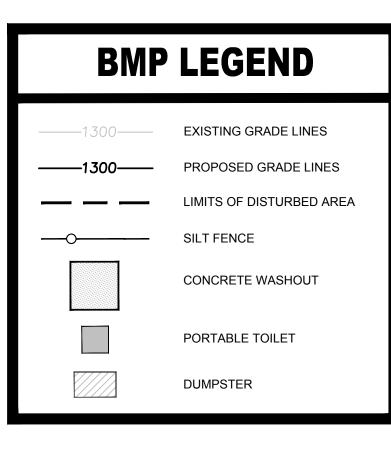


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1. CONTRACTOR TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP

SEDIMENT IN BASINS WILL REQUIRE REMOVAL DURING CONSTRUCTION OR AFTER EACH RAIN EVENT AND AT THE END OF CONSTRUCTION. EACH BASIN SHALL BE CHECKED AFTER EACH RAIN EVENT. CONTRACTOR TO MINIMIZE THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES AT ANY ONE TIME AND TO PROMPTLY REVEGETATE (OR MECHANICALLY STABILIZE) ARE DISTURBED BY CONSTRUCTION ACTIVITY.



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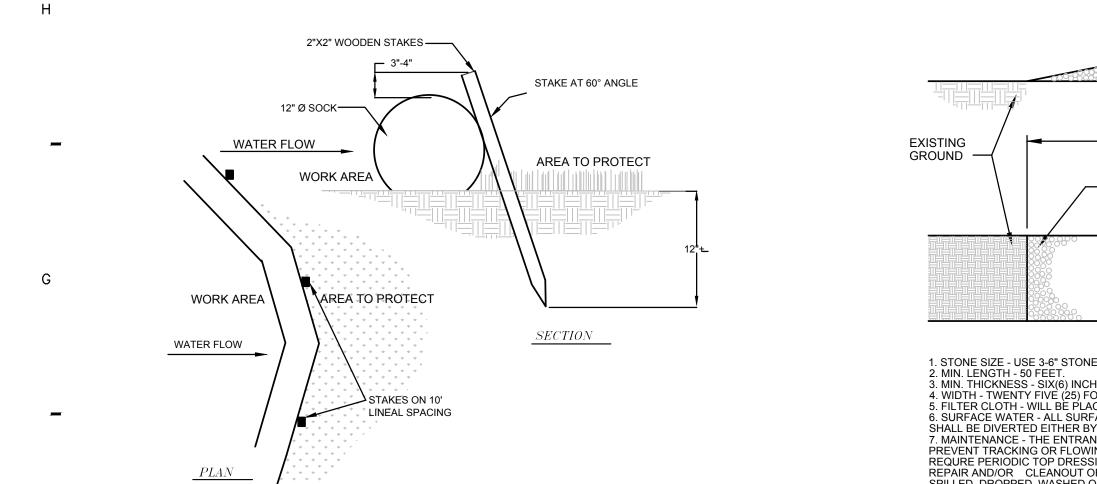
SEAL CIVIL ENGINEER - JARED M. DAVIS PE# 2016017614



STORMWATER POLLUTION PREVENTION PLAN

> **ISSUE DATE:** 2.4.2019 **REVISIONS:**





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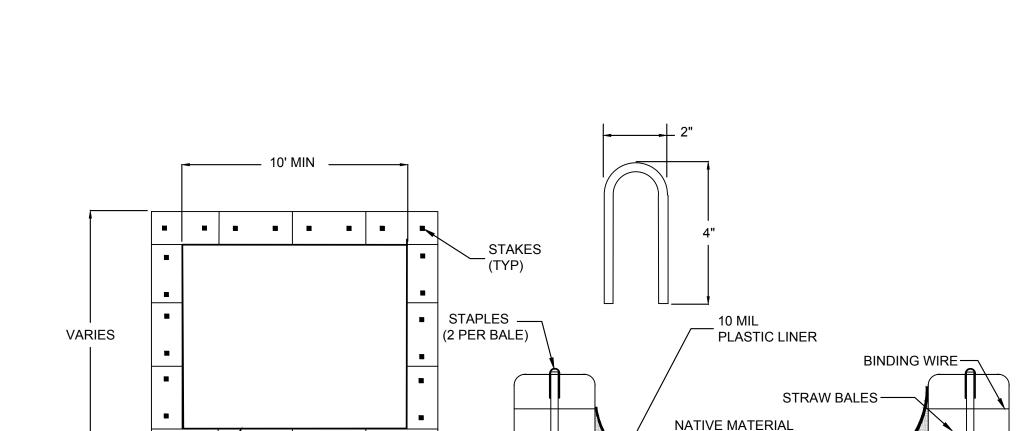


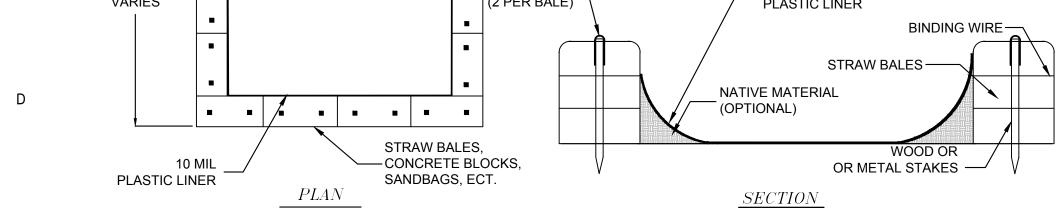
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1 COMPOST FILTER SOCK

C1.7 SCALE: NOT TO SCALE





NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY

3 CONCRETE WASHOUT

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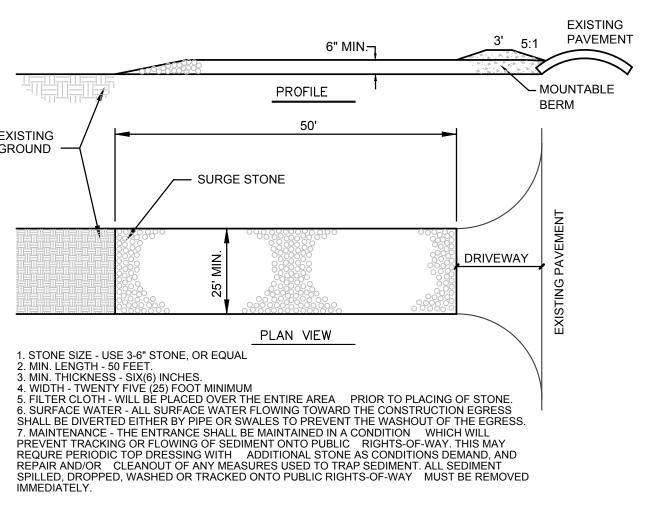
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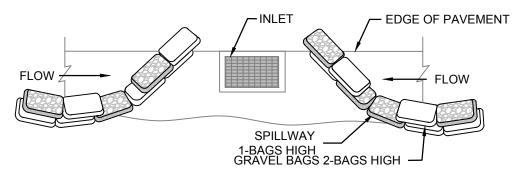
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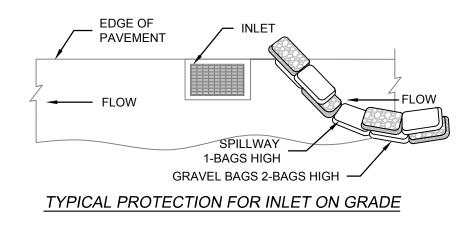
C1.7 SCALE: NOT TO SCALE



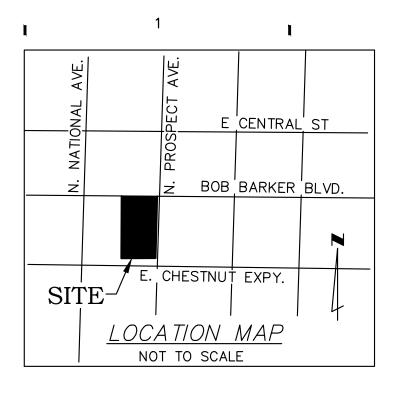
2 CONSTRUCTION EGRESS DETAIL C1.7 SCALE: NOT TO SCALE



TYPICAL PROTECTION FOR INLET ON SUMP





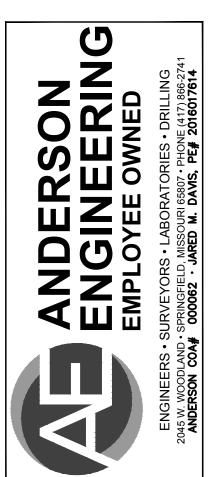


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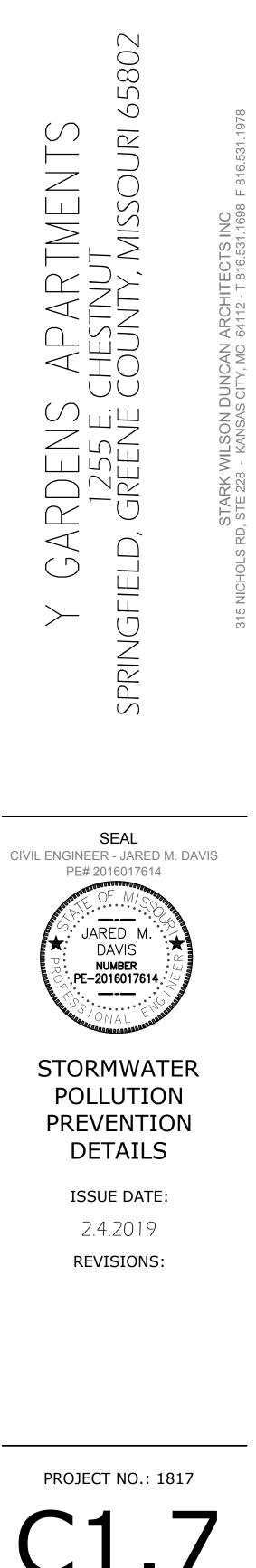
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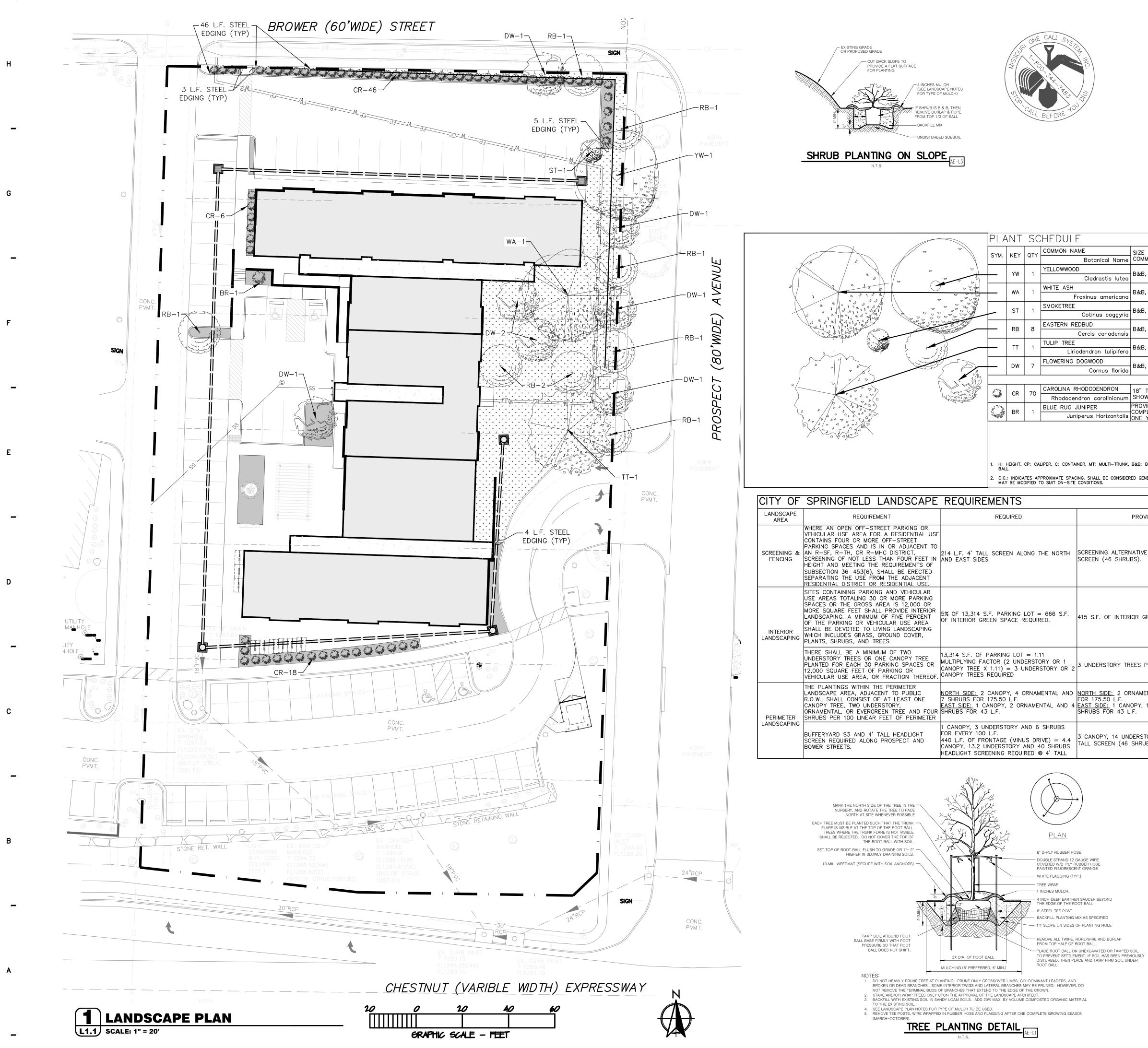






ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073





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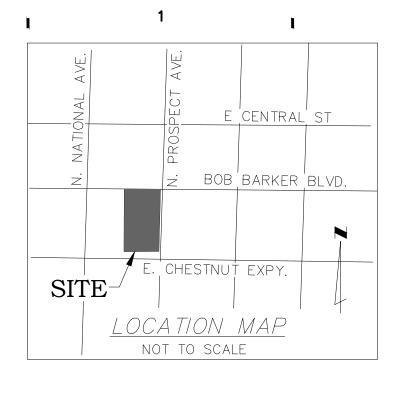
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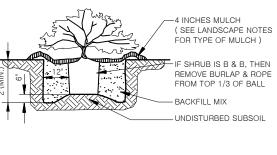
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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073

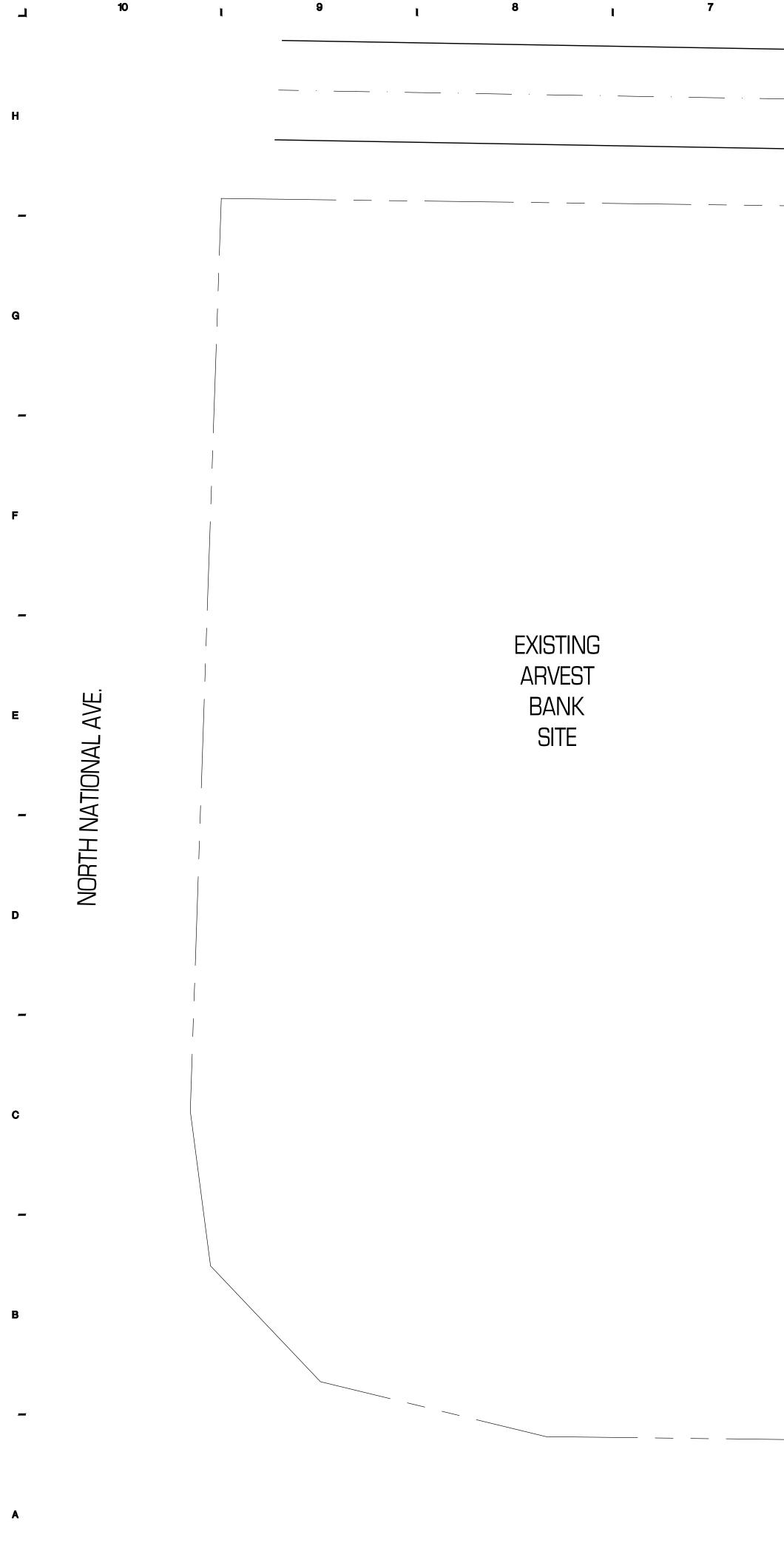
PROJECT NO.: 1817

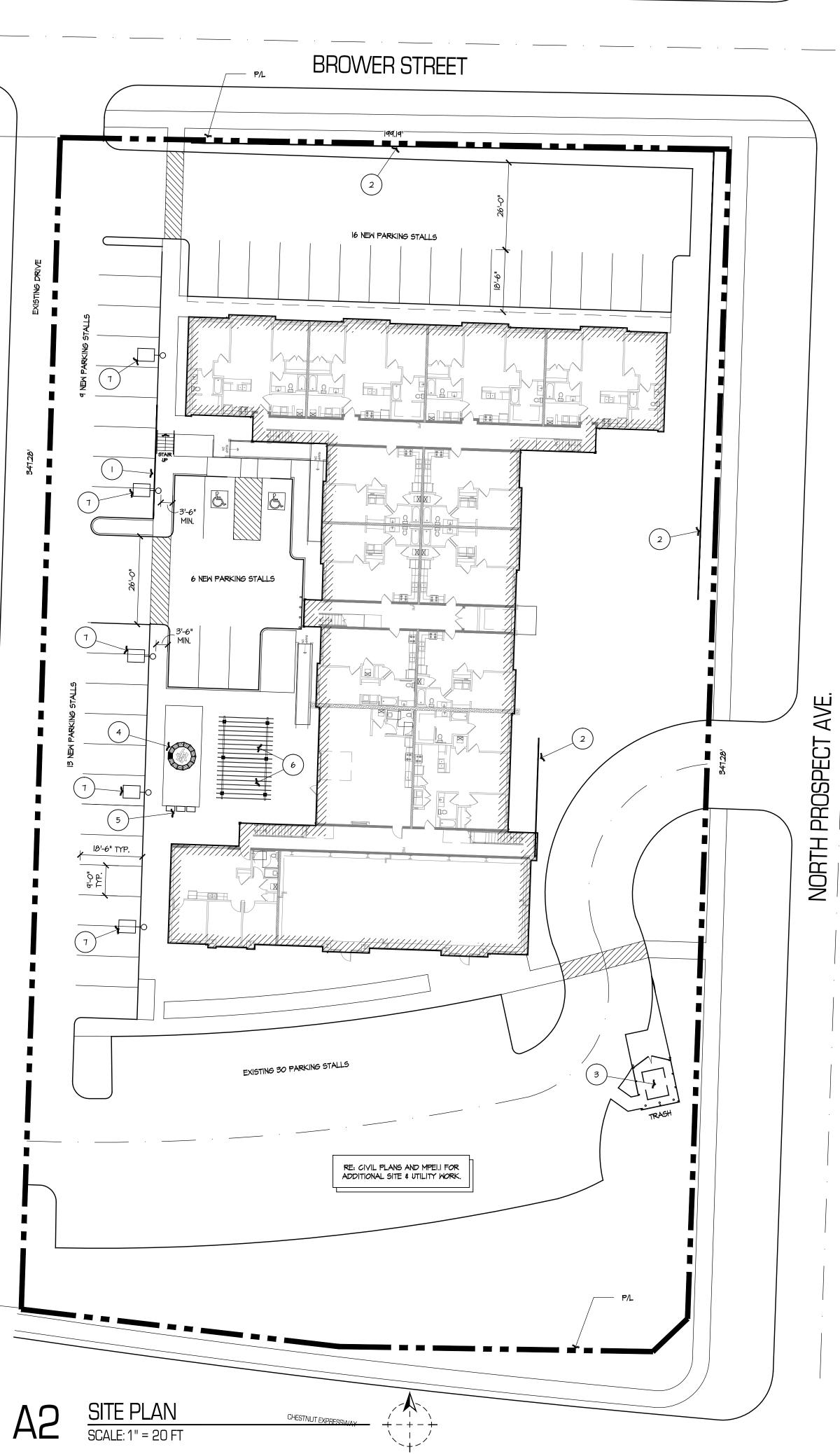
	2045 M	5802
	PROPOSED LANDSCAPE FEATURES	· · · · · · · · · · · · · · · · · · ·
IE SIZE SPACING Botanical Name COMMENTS	STEEL EDGING	
Cladrastis lutea B&B, 1.5" CAL	HARDWOOD MULCHED AREA.	ZŌ
axinus americana B&B, 1.5" CAL	NATIVE, DROUGHT TOLERANT, SODDED TURF AREA.	
Cotinus coggyria B&B, 1" CAL	GENERAL NOTES	
DBUD Cercis canadensis B&B, 1" CAL	1. THE CONTRACTOR SHALL FOLLOW ALL LOCAL CODES THAT PERTAIN TO LANDSCAPE INSTALLATION, AND SHALL NOTIFY THE LANDSCAPE ARCHITECT (LA) OR DESIGNATED REPRESENTATIVE (DR) REGARDING ANY DISCREPANCIES BETWEEN LOCAL CODES, PLANS, AND	
dendron tulipifera B&B, 1.5" CAL	SPECIFICATIONS. 2. THE CONTRACTOR SHALL NOTIFY (LA) OR (DR) OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING. 3. THE CONTRACTOR SHALL VERIFY DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES,	
Cornus florida B&B, 1" CAL	STRUCTURES, UNDERGROUND UTILITIES AND SITE LIGHTING CONDUITS WITHIN THE PROJECT SITE BEFORE LANDSCAPE CONSTRUCTION BEGINS. 4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS ASSOCIATED WITH THE WORK AT ALL TIMES. ALL UNUSED MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE SITE	
ODODENDRON 18" TALL, SPACED AS Aron carolinianum SHOWN INIPER PROVIDE REASONABLY COMPLETE COVERAGE WITHIN Perus Horizontalis ONE YEAR OF PLANTING	 THE SITE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A WATER PERMEABILITY TEST TO DETERMINE SOIL QUALITY. TEST IS PERFORMED BY DIGGING A SHARP SHOOTER SPADE 18" (INCHES) INTO THE GROUND. FILL THE HOLE WITH WATER. RETURN TO THE TEST SITE AFTER 18 HOURS TO VISUALLY CONFIRM IF THE HOLE STILL RETAINS WATER. IF THE HOLE RETAINS WATER, THE SOIL IS DETERMINED TO BE TO POOR FOR PLANTING CONDITIONS. TO REMEDY POOR SOIL CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO OVER EXCAVATE THE SOIL TO THE DEPTH OF THE ROOT BALL AND REPLACE THE SOIL WITH QUALITY PLANTING SOIL AS SPECIFIED ON THE PLANS PRIOR TO PLANTING TREES OR SHRUBS. ALL LANDSCAPE MATERIALS TO BE WATERED BY CONTRACTOR UNTIL ESTABLISHED. PLANT MATERIAL: SHALL BE INSTALLED BY THE CONTRACTOR PER DETAILS (REFER TO DETAIL SHEETS) AND CLIENT'S SPECIFICATION OR REQUIREMENTS OF THE REGULATORY AUTHORITY HAVING JURISDICTION WHICHEVER IS MORE STRINGENT. THE CONTRACTOR ACCEPTS ALL LIABILITY FOR THE INSTALLATION LANDSCAPING DEPICTED ON THESE PLANS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER 	RDENS 1255 E. O GREENE (
ER, MT: MULTI-TRUNK, B&B: BALLED & BURLAPPED ROOT G. SHALL BE CONSIDERED GENERAL GUIDELINE ONLY AND ONDITIONS.	 SUBSTANTIAL COMPLETION LETTER IS ISSUED AND/OR ACCEPTANCE OF FINISHED JOB. ALL DEAD OR DAMAGED PLANT MATERIAL SHALL BE REPLACED ONE TIME WHEN DISCOVERED AT THE CONTRACTOR'S EXPENSE. c. QUALITY SHALL COMPLY TO THE HIGHEST STANDARDS IN THE NURSERY INDUSTRY. GRASS SOD AND PLANTS SHALL BE REASONABLY CLEAN AND FREE OF WEEDS, PESTS, DISEASES. d. SHALL NOT BE PLANTED IN FROZEN GROUND. 8. ANY EXISTING TREES DESIGNATED TO BE SAVED MUST BE PRESERVED DURING CONSTRUCTION. 9. ALL PLANTING BEDS AND TREE PLANTING PITS TO BE FILLED WITH A MIXTURE OF 30% COMPOST (COW, MUSHROOM OR COTTON BUR), 20% PEAT MOSS AND 50% TOPSOIL BY VOLUME. ALSO, MIX IN 1LB 10-20-10 SLOW RELEASE PLANT FERTILIZER PER 10 SQ FT. OR AS RECOMMENDED 	r GAI FIELD,
PROVIDED	BY THE SOIL ANALYSIS. 10. STAKES FOR TREE SUPPORT SHALL BE STEEL "T" BAR FENCE POST, 6' LONG, PAINTED DARK GREEN WITH TOP 6" PAINTED WHITE. TREE TIE SYSTEMS SHALL BE EASILY ADJUSTABLE, STRONG	
CREENING ALTERNATIVE D: 214 L.F. 4' TALL CREEN (46 SHRUBS).	 IN ALL WEATHER, AND EASILY ATTACHED AND REMOVED. HOSE AND WIRE ARE NOT ACCEPTABLE FOR STAKED TREES. TREE TIE SYSTEMS SHALL BE 20" DEWITT (BLACK) TREE STRAP/SLING TSL-BX (60 PER CASE) OR APPROVED EQUAL-NO PLASTIC TIES ALLOWED. WIRE: 14 GAUGE ELECT. FENCE WIRE. 11. ALL PLANTING BEDS AS DESIGNATED ON THESE PLANS SHALL BE BORDERED BY ½" × 4" PAINTED BROWN STEEL EDGING AND RYERSON OR APPROVED EQUAL WITH INTEGRATED STAKES THROUGH SLOTS IN THE EDGING. (REFER TO DETAIL SHEETS FOR ACCEPTED EDGING MATERIAL) 12. MULCH ALL TREE PLANTINGS AND PLANTING BEDS WITH 4" OF EITHER SHREDDED HARDWOOD BARK MULCH OR CYPRESS MULCH. IN THE SEASONAL FLOWER BEDS USE EITHER CYPRESS OR PINE BARK MULCH; DO NOT USE HARDWOOD MULCH IN SEASONAL FLOWER BEDS. 13. ALL PLANTING AREAS SHALL RECEIVE A THREE INCH (3") TOP DRESSING OF MULCH OVER A 10 MIL WEED MAT EQUAL TO "WEEDBLOCK" FABRIC BY "EASY GARDENER" OR DEWITT WEED BARRIER. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND (REFER TO PLANTING DETAILS). 14. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION, EXCEPT THOSE OCCUPIED BY BUILDINGS, STRUCTURES, OR PAVING SHALL BE GRADED SMOOTH AND 4" (INCHES) OF TOPSOIL APPLIED. (REFER TO THE EROSION CONTROL DETAIL SHEET(S) FOR TOPSOIL AND SEEDING SPECIFICATIONS). 15. CONTRACTOR SHALL FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH 10-10-10 TIME RELEASE FERTILIZER. 	SPRIN
15 S.F. OF INTERIOR GREEN SPACE PROVIDED	 16. IF REQUIRED BY THE CLIENT'S SPECIFICATIONS OR REQUIREMENTS OF THE REGULATORY AUTHORITY HAVING JURISDICTION WHICHEVER IS MORE STRINGENT, THE CONTRACTOR SHALL REPAIR, REPLACE AND/OR AUGMENT EXISTING IRRIGATION SYSTEM AS NECESSARY THAT PROVIDES SEPARATE ZONES AND HEAD PLACEMENT FOR SHRUB AREAS AND TURF AREAS. 100% HEAD TO HEAD COVERAGE WILL BE REQUIRED. THE CONTRACTOR WILL SUBMIT AS-BUILT DRAWINGS FOR THE LANDSCAPE IRRIGATION SYSTEM AND WILL ACCEPT RESPONSIBILITY FOR THE THE IRRIGATION SYSTEM. PROVIDE SUBMITTALS AS REQUIRED. 17. ALL PLANTING TYPES SHALL COMPLY WITH LOCAL GOVENING CODES AND REGULATIONS. CONFORM TO REQUIREMENTS OF PLANT LIST AND TO THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARD OF NURSERY STOCK" AND "HORTICULTURAL STANDARDS" AS 	NATHANIEL C. ROBERTS
UNDERSTORY TREES PROVIDED	 NONSERTIMEN AMERICAN STANDARD OF NONSERT STANDARDS AS TO SPECIES, AGE, SIZE, AND PLANTING RECOMMENDATIONS 18. LANDSCAPE CONTRACTOR SHALL OBTAIN AN ORIGINAL PRINT OF THIS PLAN TO ENSURE THAT ALL LINE WEIGHTS, LINE TYPES AND SHADED COLORS ARE COMPLETELY LEGIBLE AS ORIGINALLY PRINTED. 19. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE ARCHITECT'S PRIOR WRITTEN APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED. 	NUMBER PLA-2018016630
I <u>ORTH SIDE:</u> 2 ORNAMENTAL AND 41 SHRUBS OR 175.50 L.F. <u>AST SIDE:</u> 1 CANOPY, 1 ORNAMENTAL AND 5 HRUBS FOR 43 L.F.	20. PLANT LOCATIONS ARE APPROXIMATE. ADJUST AS NECESSARY TO AVOID CONFLICTS. 21. QUANTITIES OF MATERIALS SHOWN ON LANDSCAPING PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON PLANTING SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON LANDSCAPING PLAN.	Math L. Alla 2-1-19
G CANOPY, 14 UNDERSTORY AND 214 L.F. 4' ALL SCREEN (46 SHRUBS).	NOTE TO CONTRACTOR CONTRACTOR SHALL INSTALL AN AUTOMATIC POP-UP AND/OR DRIP IRRIGATION SYSTEM THAT PROVIDES SUFFICIENT WATERING FOR ALL PLANTS AND TURF TO SUSTAIN HEALTHY GROWTH. THE IRRIGATION SYSTEM SHALL BE IN COMPLIANCE WITH ALL CITY, COUNTY AND/OR STATE REQUIREMENTS. CONTRACTOR SHALL ENSURE ALL PLANTS AND TURF ARE MAINTAINED IN HEALTHY GROWING CONDITION FOR ONE FULL GROWING SEASON.	LANDSCAPE PLAN
	THIS LANDSCAPE PLAN WAS CREATED BY: NATHANIEL C. ROBERTS, PLA, LICENSE NO. 2018016630, ANDERSON ENGINEERING INC., 5311 W. VILLAGE PKWY, ROGERS, AR 72758, 479–286–8181	ISSUE DATE: 2.4.2019 REVISIONS:
E UGE WIRE BER HOSE ORANGE)		



SHRUB PLANTING







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NORTH

KEY NOTES

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- CONCRETE STEPS. RE: C&/SPI.2
 RETAINING WALL. RE: CIVIL
 TRASH ENCLOSURE. RE: CIVIL 4. FIRE PIT. RE: EIO/SPI.2 5. MAILBOXES. RE: AIO/SPI.2
- 6. WOOD TRELLIS. RE: A2/SPI.2 7. LIGHT POLE. RE: ELECTRICAL.





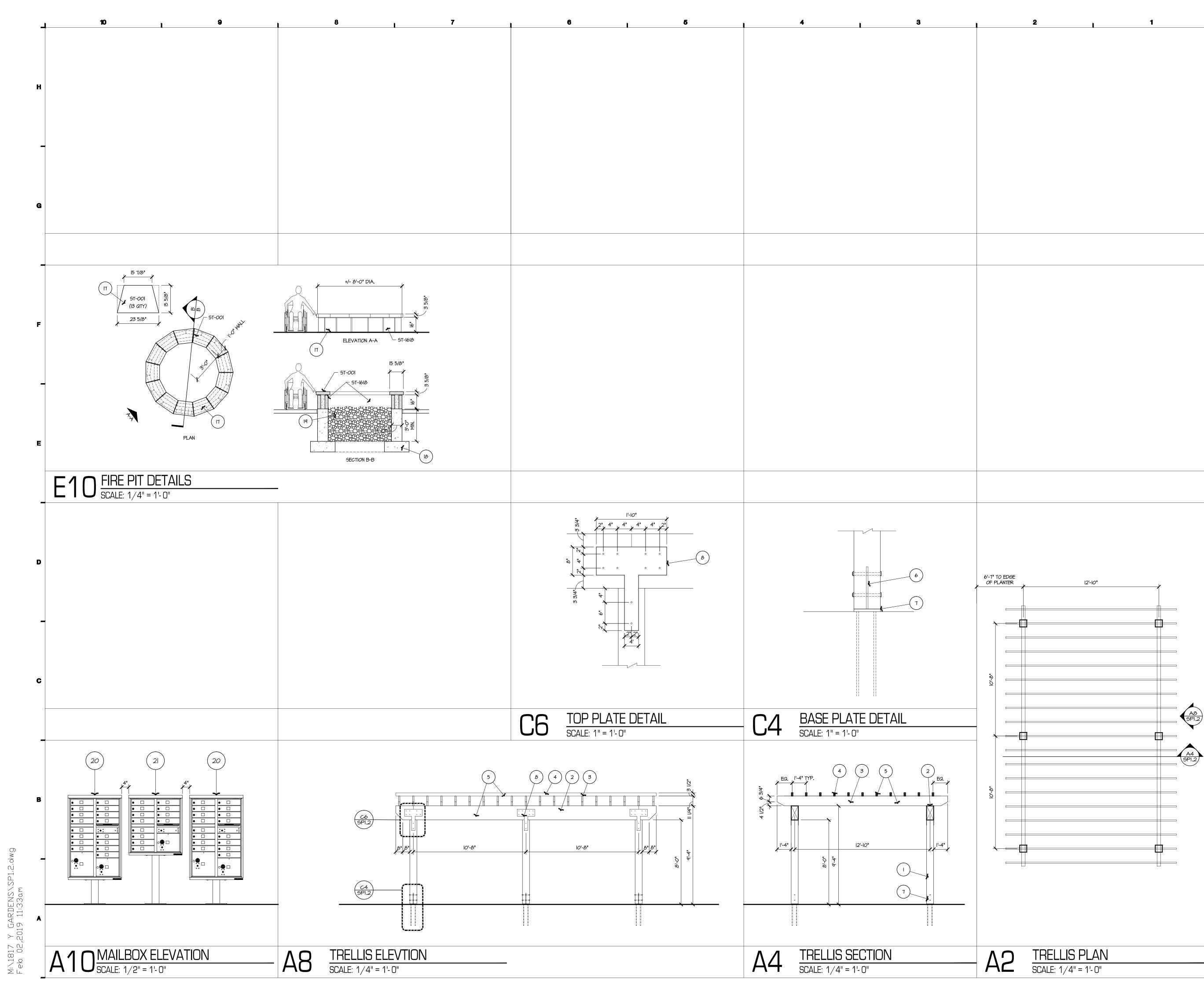
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SITE PLAN

ISSUE DATE: 02.04.2019 **REVISIONS**:





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KEY NOTES

. 8"X8" CEDAR COLUMN. 2. 8"XI6" CEDAR BEAM.

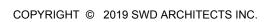
- 3. 2"XI2" CEDAR @ 16" O.C., TOE NAIL INTO BEAM W/ GALV. NAILS
- 4. 2"X4" CEDAR @ 16" O.C., TOE NAIL INTO 2 X 12 W/ GALV.
- NAILS. 5. INSTALL CLEAR SEALER ON ALL CEDAR MEMBERS.
- 6. 1/2" X 7 1/2" X 12" GALV. PLATE. SHOP WELD TO TOP OF BASE PLATE W/ (2) 3/4" DIA. GALV. THRU BOLTS
- 3/4" X 7 I/2" X 7 I/2" GALV. BASE PLATE W (4) 5/8" DIA.
 X 2'-0" LONG THREADED ROD ANCHORS WELDED TO BOTTOM OF PLATE. EMBED IN FOUNDATION FOOTING.
- I/4" GALVANIZED STEEL 'T' PLATE EACH SIDE W 3/4" DIA. GALV. THRU BOLT. TYP.
- 9. 16" TALL CANE BOLT, PROVIDE HOLE IN CONCRETE. PROVIDE I FOR EACH GATE PAINT.
- 10. 6" DIA. CONCRETE FILLED STEEL BOLLARD @ 4'-0" TALL. PAINT. EMBED 3'-0" DEEP CONCRETE CONCRETE.
- II. 6'-0" TALL VINYL FENCING SCREWED TO FRAMING. COLOR AS SELECTED BY ARCHITECT.
- 12. 2X4 TREATED WOOD FENCE FRAMING. 13. HSS | 1/2" X | 1/2" X 3/16" STEEL TUBE GATE FRAMING. ALL CONNECTIONS FULLY WELDED, GRIND WELDS SMOOTH. PAINT. SCREW VINYL FENCING TO STEEL TUBING W 2" SELF DRILLING TEK #5 SCREWS. PROVIDE & INSTALL 3
- HEAVY DUTY HINGES ON EACH GATE. 14. HSS 3 1/2" X 3 1/2" X 3/16" TUBE STEEL POST SET IN MIN. 3'-0" DEEP CONCRETE. CAP POST W/ STEEL PLATE. PAINT. SCREW FRAMING TO STEEL POST W/ 3" SELF DRILLING TEK #5 SCREWS. PAINT.
- 15. REINFORCED CONCRETE SLAB. RE: CIVIL.
- 16. MODIFY EXISTING CURBING. RE: CIVIL. 17. MASONRY FIRE PIT WALLS \$ WALL CAPS. DIMENSIONAL STONE (MACHINE MADE) UNITS AS MEG. BY ROCKCAST. COLOR AS SELECTED BY ARCHITECT. FIELD CUT UNITS AS NECESSARY TO PRODUCE INDICATED GEOMETRY. FILL SOLID ALL VOIDS W MORTAR CREATED BY MASONRY UNITS.
- 18. CONCRETE FOOTING. RE: STRUCTURAL.
- 19. GRAVEL BASE. 20. FLORENCE CORPORATION CLUSTER MAIL BOX - VITAL 1570-16. COLOR POSTAL GREY. NUMBERING OF MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE
- 21. FLORENCE CORPORATION CLUSTER MAILBOX VITAL 1570-12. COLOR POSTAL GREY. NUMBERING OF THE MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE.

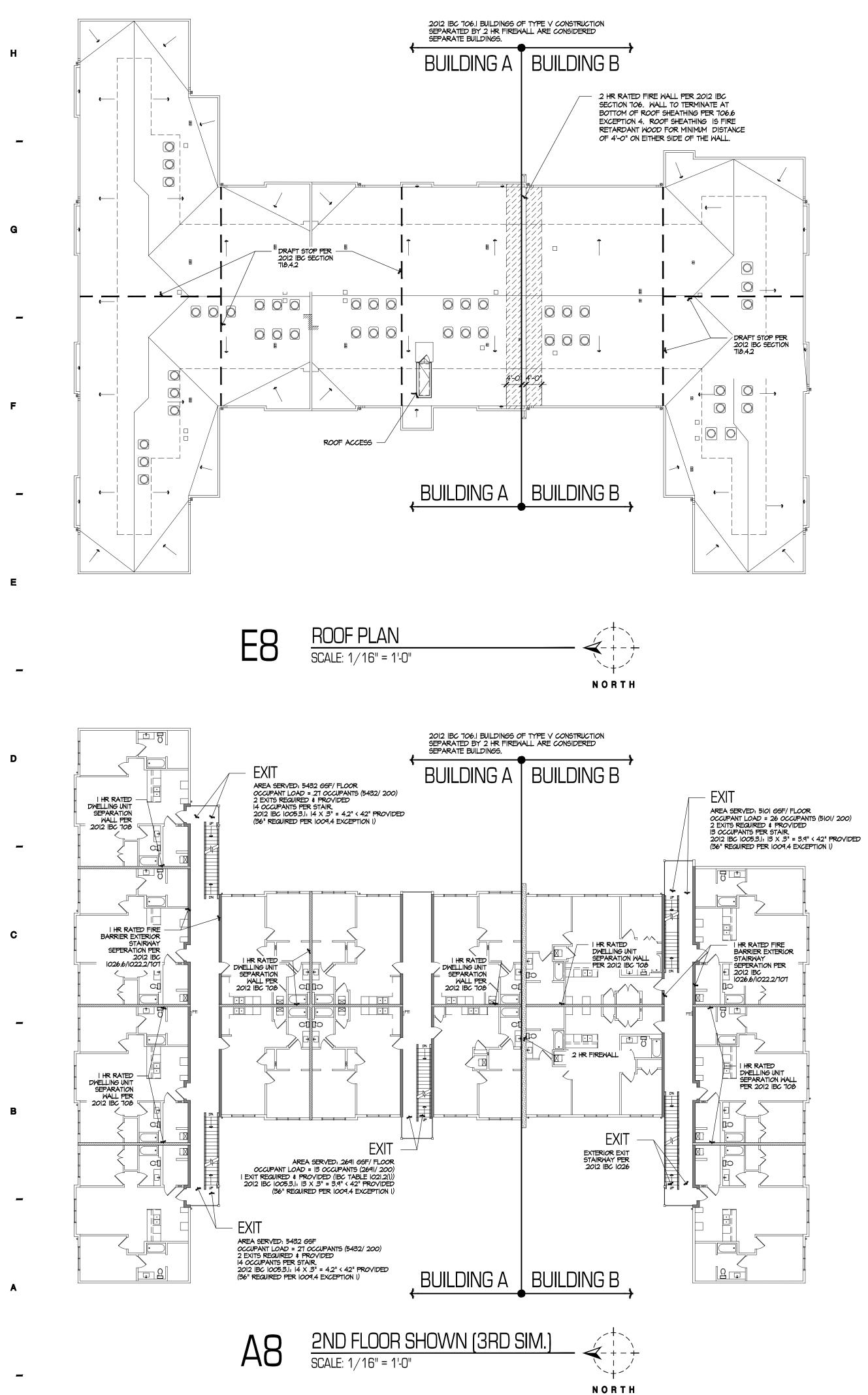


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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073







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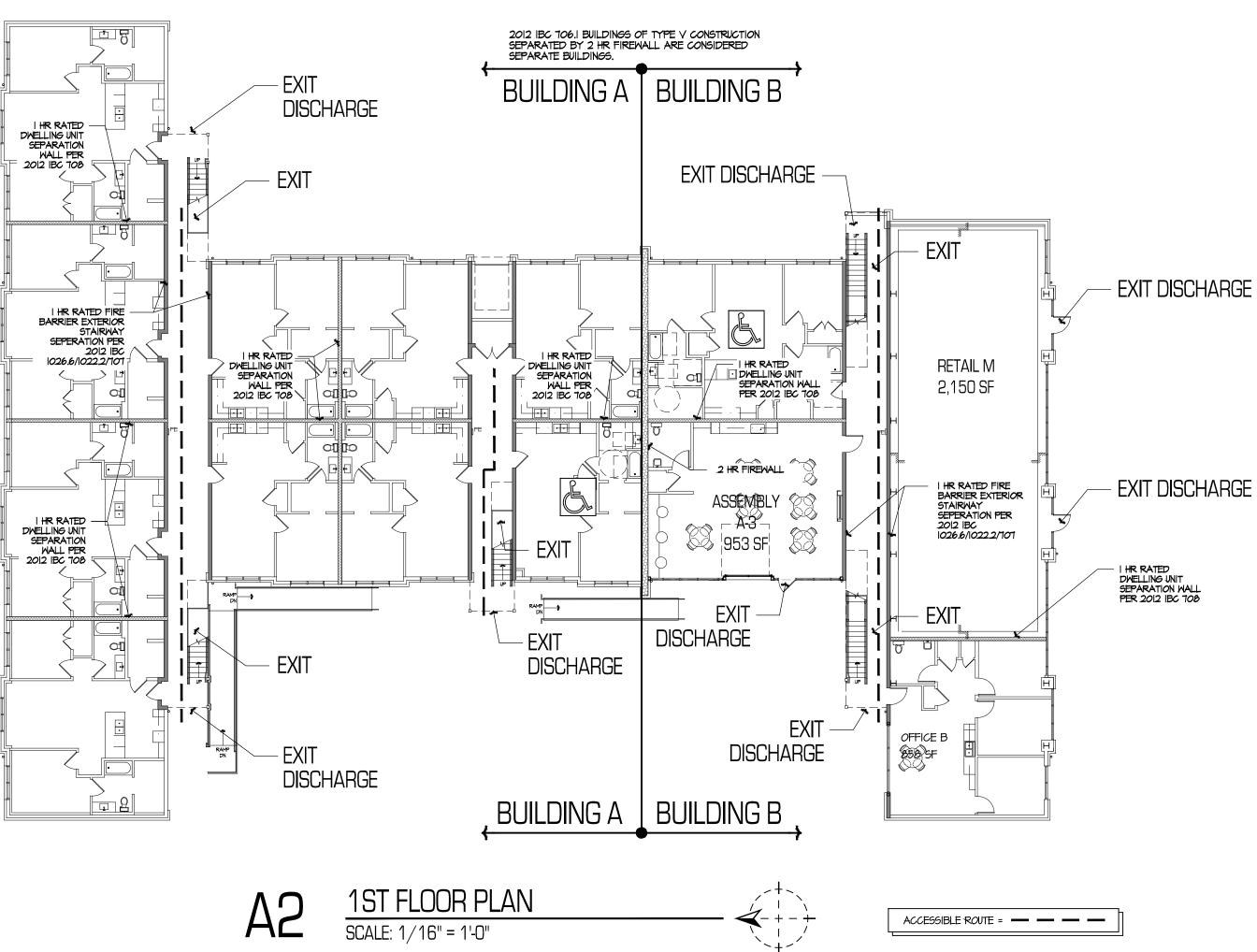
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6	I	5	1	4	1	3	I	2
		CODE AN					SECOND FLOOR THIRD FLOOR:	: 9304 65F 9304 65F
		BUILDING: MECHANICA PLUMBING: ELECTRICAI FIRE: ACCESSIBIL	IBC 2012 IN L: IMC 2012 IN IPC 2012 IN IPC 2012 IN .: NEC 2011 NF 2012 INTERN	ITERNATIONAL BUILI ITERNATIONAL MECI TERNATIONAL PLUM PA 70 NATIONAL E NATIONAL FIRE COI ACCESSIBLE & USA	HANICAL CODE 1BING CODE ELECTRICAL CODE	ACILITIES	TOTAL: <u>BUILDING B</u> ALLOMABLE AR FRONTAGE INCR	27,912 GSF EA PER FLOOR (IBC 506.1): EASE (IBC 506.2): (MOST RESTRICTED USE)
		<u>zoning:</u> GRW/C	OD #139				ALLOWABLE AR	EA (Aa): 11,130 GSF
		PARKING REQUIRE 41 APARTMENT UN (18) BEDROOM X (23) 2 BEDROOM 73 REQUIRED PAR	ITS: 1.5 = 27 STALLS X 2 = 46 STALLS				FIRST FLOOR: SECOND FLOOR THIRD FLOOR: TOTAL:	5715 GSF 5715 GSF 5715 GSF 17325 GSF
		RETAIL - 2,150 SF BICYCLE PARKING 82 X 10% = 8 PAI 8 X 2 = 16 BICYC	7 / 250 = 9 STALLS 3 REDUCTION ALLOWANC	E: 10% AT 2 BICYC	CLE SPACES PER F	PARKING STALL	<u>OCCUPANT LOAI</u> BUILDING A: IST FLOOR:	<u>D PER BUILDING</u> R-2: 9304 <i>G</i> SF / 200 (R
		74 ON SITE PARK <u>SITE ACREAGE -</u>	ING STALLS PROVIDED +/- 1.62 ACRES				2ND FLOOR: 3RD FLOOR: TOTAL:	R-2: 9304 65F / 200 (R R-2: 9304 65F / 200 (R
		<u>OCCUPANCY CLAS</u> BUILDING A: IST - 3RD FLOOR	SSIFICATION: APARTMENTS R-2				<u>BUILDING B:</u> IST FLOOR:	M: 2150 GSF/ 30 (MERCA B: 858 GSF/ 100 (BUSINE A-2: 953 GSF/ 15 (UNCON R-2: 3390 GSF/ 200 (RE
		-	ARATED OCCUPANCIES): R: APARTMENTS R-2	: APARTMENTS R-2	2, RETAIL M, OFFICE	B, ASSEMBLY A-3	2ND FLOOR: 3RD FLOOR: TOTAL:	R-2: 5575 65F/ 200 (RE R-2: 5575 65F/ 200 (RE
STOP PER IC SECTION		TYPE OF CONSTRU	<u>JCTION</u> : TYPE VB (IBC)	TABLE 503).			EGRESS REQUIR	
		THE BUILDINGS AF <u>BUILDING HEIGHT:</u> ALLOWABLE: ACTUAL:	2E FULLY SPRINKLED W/ 40' (IBC TABLE 503) + 2 43'-3"				OCCUPAN COF OCCUPAN EXIT ACC	&RIDOR EXIT WIDTH: IST FL(CY OF 38 X 2" = 8" < 36" 1 &RIDORS EXIT WIDTH: 2ND - CY OF 27 X 2" = 5.6" < 36" ESS TRAVEL DISTANCE IS L PATH OF EGRESS TRAVEL (
			2 STORIES (IBC TABLE 5 3 STORIES	503) + I STORY (IB	C 504.2) = 3 STORI	ES	100' 1 DEAD ENI EXIT SEPA BUILDING	MAX. R-2 = 125' MAX. MAX. CORRIDORS ALLOWED (18 RTION DISTANCE: A: OVERALL DIAGONAL 15
		ACTUAL:	STORY + STORY = 2 STORY (IST FLOOR ON				IS 40'.	B: OVERALL DIAGONAL IS REQUIREMENTS (MINIMUMS)
		ACTUAL:	2 STORIES + STORY = STORY (IST FLOOR ON	NLY)			STRUCTURAL FR EXTERIOR BEAR INTERIOR BEARI EXTERIOR NONE	RING WALLS O NG WALLS O
			STORY + ISTORY = 2 8 STORY (IST FLOOR ON				INTERIOR NONBE FLOOR CONSTRUCT ROOF CONSTRUCT	EARING WALLS O UCTION O
		<u>BUILDING A</u> ALLOWABLE ARE, FRONTAGE INCRE	A PER FLOOR (IBC 506.1) ASE (IBC 506.2):	• •	(At) + [7000(At) X 0 (537'(P) - 0.25] X 30	9.64(1f)] = 11,480 GSF O(W)/30 = 0.64		
		ALLOWABLE ARE,	A (Aa): 11,480 GSF				ACCESSIBILITY REA	QUIREMENTS AT AREAS OF WOR

9304 GSF

FIRST FLOOR:

ACCESSIBILITY REQUIREMENTS AT AREAS OF WORK: PUBLIC SPACES TO BE ACCESSIBLE PER THE 2012 IBC # 2010 ADA. 2% OF UNITS REQUIRED TO BE TYPE 'A' PER 1107.6.2.1.1. 41 UNITS X .02% = 1 TYPE 'A' UNIT REQUIRED. 2 PROVIDED. TYPE 'B' UNITS REQUIRED ON FIRST FLOOR ONLY PER IBC 1107.7.1.





L.

Aa = 7000(At) + [7000(At) X 0.59(If)] = 11,130 GSF (IBC 506.I): If = [306'(F)/ 364'(P) - 0.25] X 30(W)/30 = 0.59 TED USE) 11,130 GSF

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SSF / 200 (RESIDENTIAL) = SSF / 200 (RESIDENTIAL) = - 46 SSF / 200 (RESIDENTIAL) = 46 138 OCCUPANTS / 30 (MERCANTILE AT GRADE) = 100 (BUSINESS) =

F/ 15 (UNCONCENTRATED TABLES & CHAIRS = 63 SF/ 200 (RESIDENTIAL) = - 16 SF/ 200 (RESIDENTIAL) = 27 SF/200 (RESIDENTIAL) = 27 212 OCCUPANTS

DTH: IST FLOOR (SOUTH CORRIDOR ASSUMED WORST CASE) - MAX. = 8" < 36" MINIMUM REQUIRED. 42" PROVIDED. WIDTH: 2ND - 3RD (NORTH CORRIDOR ASSUMED WORST CASE) - MAX. = 5.6" < 36" MINIMUM REQUIRED. 42" PROVIDED. STANCE IS LESS THAN THE MAX. 250' ALLOWED (IBC TABLE 1016.2). 65 TRAVEL (IBC TABLE 1014.3): M = 75' MAX. A-2 = 75' MAX. B = 'MAX. MAX. OF 59' COMMON PATH TYP. AT 2 BED APARTMENT. ALLOWED (IBC 1018.4): A-2 = 20' MAX. R-2 = 50' MAX.

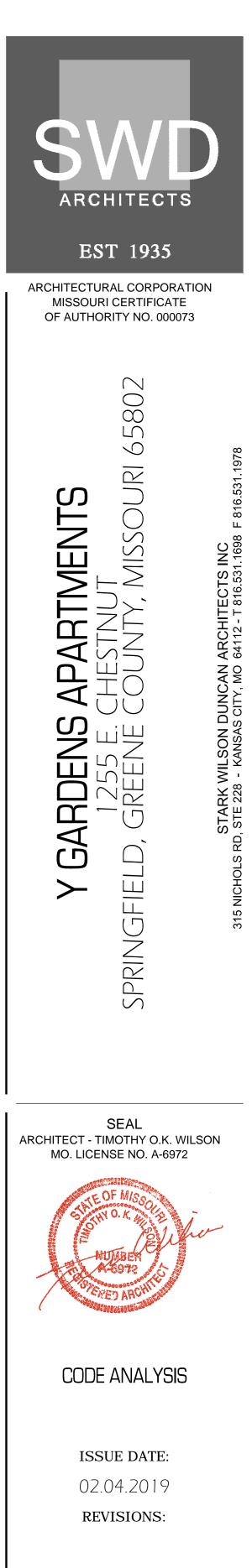
IAGONAL IS 142'-6" / 3 = 47'-6" MIN. ACTUAL PER IBC 1015.2.1 EXC. 1 IS AGONAL IS 108'-6" / 3 = 36'-2" MIN. ACTUAL PER IBC 1015.2.1 EXC. 1

(MINIMUMS) FOR TYPE VB (PER IBC TABLE 601):

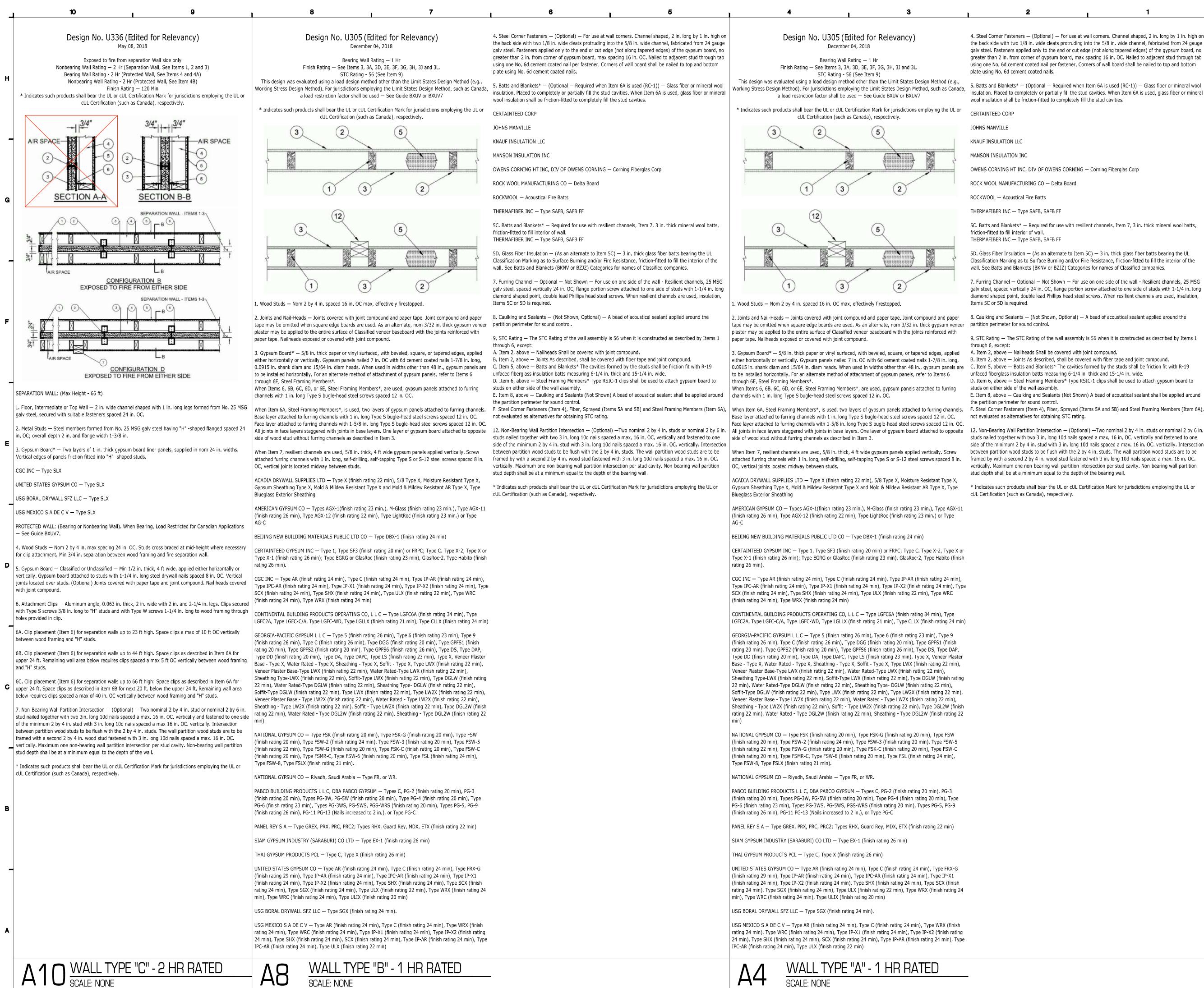
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NORTH



PROJECT NO.: 1817



WALL TYPE "B" - 1 HR RATED

SCALE: NONE

4. Steel Corner Fasteners - (Optional) - For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* – (Optional – Required when Item 6A is used (RC-1)) – Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

OWENS CORNING HT INC, DIV OF OWENS CORNING — Corning Fiberglas Corp

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC - Type SAFB, SAFB FF

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in, thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF 5D. Glass Fiber Insulation - (As an alternate to Item 5C) - 3 in. thick glass fiber batts bearing the UL

Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in, OC, flange portion screw attached to one side of studs with 1-1/4 in, long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper 8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

- A. Item 2, above Nailheads Shall be covered with joint compound.
- B. Item 2, above Joints As described, shall be covered with fiber tape and joint compound.
- unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
- D. Item 6, above Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
- the partition perimeter for sound control.

studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of wood stud without furring channels as described in Item 3. side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be | When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

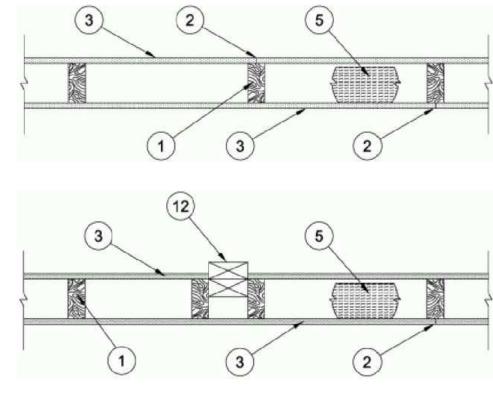


Bearing Wall Rating — 1 Hr Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Vorking Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper 8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer partition perimeter for sound control. plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. Gypsum Board* - 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E, Steel Framing Members*.

When Items 6, 6B, 6C, 6D, or 6E, Steel Framing Members*, are used, gypsum panels attached to furring E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around | channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

> Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. not evaluated as alternatives for obtaining STC rating. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC.

attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C. Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C – Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)





4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* - (Optional - Required when Item 6A is used (RC-1)) - Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC - Type SAFB, SAFB FF

5C. Batts and Blankets* – Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

5D. Glass Fiber Insulation — (As an alternate to Item 5C) - 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

Items 5C or 5D is required.

through 6, except:

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

OWENS CORNING HT INC, DIV OF OWENS CORNING - Corning Fiberglas Corp ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

A. Item 2, above — Nailheads Shall be covered with joint compound. B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound. unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide. D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around

the partition perimeter for sound control.

All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite 12. Non-Bearing Wall Partition Intersection – (Optional) – Two nominal 2 by 6 in. studs or nominal 2 by 6 in. studs or nominal 2 by 6 in. All joints in base layers. One layer of gypsum board attached to opposite 12. Non-Bearing Wall Partition Intersection – (Optional) – Two nominal 2 by 6 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation,

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1



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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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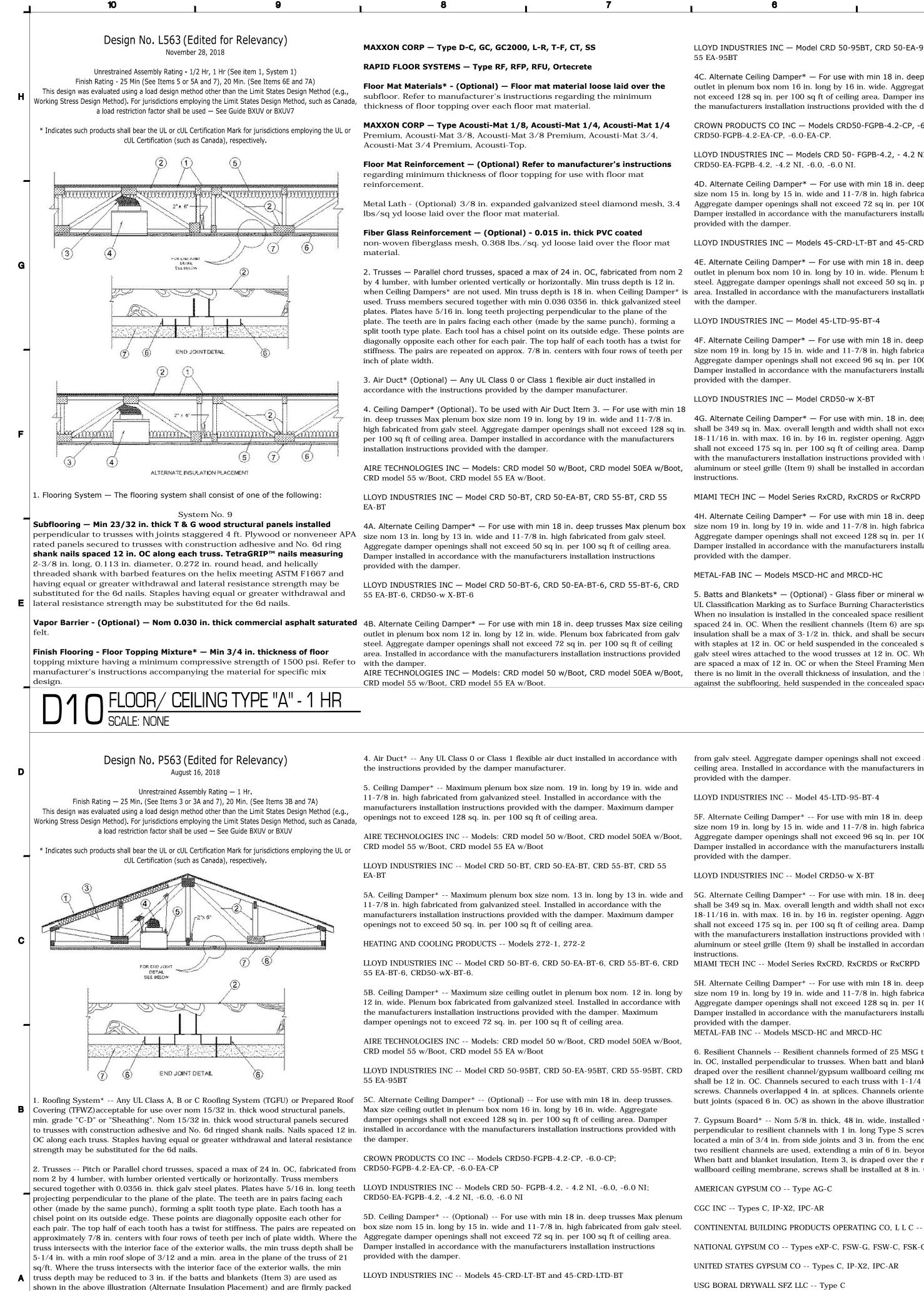


FIRE RATED ASSEMBLIES

> **ISSUE DATE:** 02.04.2019 REVISIONS







against the intersection of the bottom chords and the plywood sheathing.

A10 $\frac{\text{ROOF}/\text{CEILING TYPE "A" - 1 HR}}{\text{SCALE: NONF}}$

LLOYD INDUSTRIES INC — Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT

4C. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max size ceiling 6. Resilient Channels — Formed from min 25 MSG galv steel installed perpendicular to outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall the trusses. When insulation (Item 5) is secured to the underside of the subfloor, the not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with resilient channels are spaced 16 in. OC. When insulation (Items 5 or 5A) is applied over each gypsum board shall be supported by a single length of furring channel equal to the manufacturers installation instructions provided with the damper.

CROWN PRODUCTS CO INC — Models CRD50-FGPB-4.2-CP, -6.0-CP; CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP.

LLOYD INDUSTRIES INC — Models CRD 50- FGPB-4.2, - 4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI.

4D. Alternate Ceiling Damper* – For use with min 18 in. deep trusses Max plenum box deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Models 45-CRD-LT-BT and 45-CRD-LTD-BT

4E. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max size ceiling 2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling when Ceiling Dampers* are not used. Min truss depth is 18 in. when Ceiling Damper* is area. Installed in accordance with the manufacturers installation instructions provided

LLOYD INDUSTRIES INC — Model 45-LTD-95-BT-4

diagonally opposite each other for each pair. The top half of each tooth has a twist for 4F. Alternate Ceiling Damper* – For use with min 18 in. deep trusses Max plenum box PLITEQ INC – Type Genie Clip stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC - Model CRD50-w X-BT

high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

4H. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box 4A. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC — Models MSCD-HC and MRCD-HC

5. Batts and Blankets* – (Optional) - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When no insulation is installed in the concealed space resilient channels (Item 6) are spaced 24 in. OC. When the resilient channels (Item 6) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6A) are used, against the subflooring, held suspended in the concealed space or draped over the

from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of 8. Finishing System -- (Not Shown) -- Vinyl, dry or premixed joint compound, applied ceiling area. Installed in accordance with the manufacturers installation instructions in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer provided with the damper.

LLOYD INDUSTRIES INC -- Model 45-LTD-95-BT-4

5F. Alternate Ceiling Damper* -- For use with min 18 in. deep trusses Max plenum box instructions provided with the ceiling damper. size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Model CRD50-w X-BT

5G. Alternate Ceiling Damper* -- For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

5H. Alternate Ceiling Damper* -- For use with min 18 in. deep trusses Max plenum box 5B. Ceiling Damper* -- Maximum size ceiling outlet in plenum box nom. 12 in. long by size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC -- Models MSCD-HC and MRCD-HC

6. Resilient Channels -- Resilient channels formed of 25 MSG thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.

7. Gypsum Board* -- Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 3/4 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.

AMERICAN GYPSUM CO -- Type AG-C

CGC INC -- Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC-C/A

NATIONAL GYPSUM CO -- Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C

UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC -- Type C

USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR

resilient channels (or Steel Framing Members) and gypsum panel membrane. The finished rating has only been determined when the insulation is secured to the subflooring

the resilient channel/gypsum panel ceiling membrane, the resilient channels are spaced the width of the gypsum board plus 3 in. on each end joint. The two support furring 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6B. Steel Framing Members^{*} - (Not Shown) - As an alternate to Items 6 and 6A. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with be staggered minimum 48 in. and centered over main furring channels. At the gypsum double strand of No. 18 AWG galvanized steel wire near each end of overlap. b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet. When sections of furring channel shall extend one truss beyond the width of the gypsum insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped AMERICAN GYPSUM CO – Type AG-C 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular UNITED STATES GYPSUM CO – Types C, IP-X2, IPC-AR to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane the screw spacing shall be reduced to 8 in. 4G. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max. nom area OC. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 6A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head screws spaced 8 in. OC in the field and along end joints. Panels fastened to main runners with 1 in. long Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from board edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 2 ft OC. When Steel Framing Members (Item 6B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Screw spacing is reduced to 8 in. OC when insulation is applied over the furring channel/gypsum panel ceiling membrane. Gypsum board butted end joints shall be staggered minimum 16 in. within the assembly. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6B. Screw spacing along the gypsum board butt joint shall be 6 in. OC. When Steel Framing Members (Item 6C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within

the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels there is no limit in the overall thickness of insulation, and the insulation can be secured shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss

with one clip at each end of the channel. When Steel Framing Members (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. When Steel Framing Members (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter panel and be attached to the adjacent trusses with one SonusClip at every truss

involved with the butt joint.

CGC INC — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

8. Finishing System - (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

instructions provided with the ceiling damper.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

9. Grille -- Aluminum or Steel grille, installed in accordance with the installation

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Type LGFC-C/A

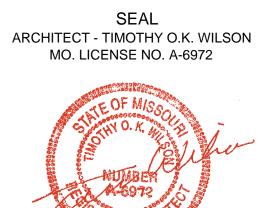
NATIONAL GYPSUM CO — Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C.

9. Grille — Aluminum or Steel grille, installed in accordance with the installation



ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073





FIRE RATED ASSEMBLIES

> **ISSUE DATE:** 02.04.2019 REVISIONS

PROJECT NO.: 1817



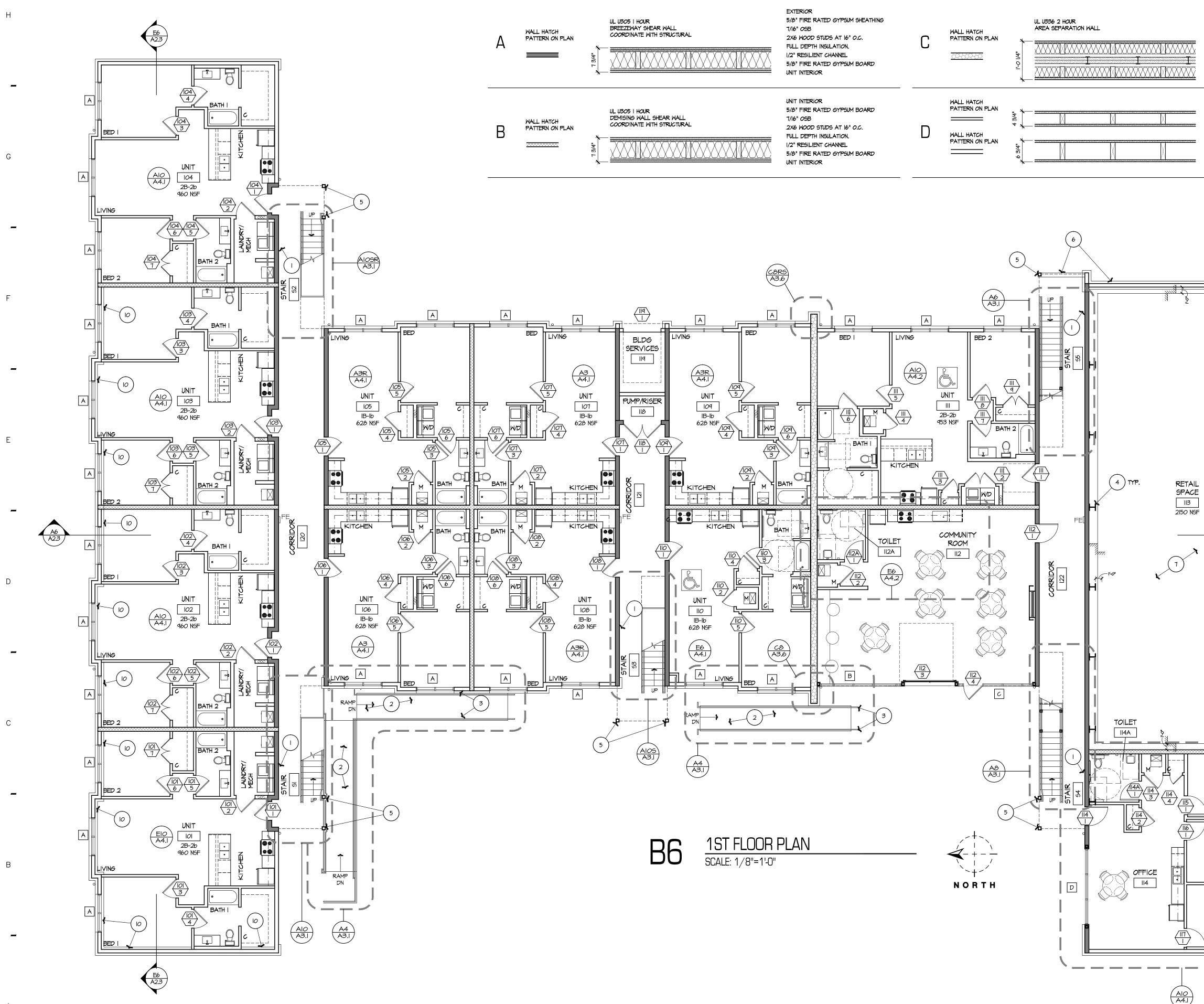
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¥ 13/4" ¥	UL USOS I HOUR BREEZEWAY SHEAR WALL COORDINATE WITH STRUCTURAL	EXTERIOR 5/8" FIRE RATED GYPSUM SHEATHING 7/16" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR	С	WALL HATCH PATTERN ON PLAN	UL U336 2 HOUR AREA SEPARATION WALL
<u>+</u> 13/4" ★	UL U305 HOUR DEMISING WALL SHEAR WALL COORDINATE WITH STRUCTURAL	UNIT INTERIOR 5/8" FIRE RATED GYPSUM BOARD 7/16" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR	D	WALL HATCH PATTERN ON PLAN WALL HATCH PATTERN ON PLAN	

UNIT INTERIOR

2

5/8" FIRE RATED GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. 2 LAYERS I" FIRE RATED GYPSUM INSERTED BETWEEN METAL H STUDS

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2X4 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION (EACH WALL FACE)

1

5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR

- UNIT INTERIOR 5/8" GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C.
- 5/8" GYPSUM BOARD UNIT INTERIOR
- UNIT INTERIOR

5/8" GYPSUM BOARD

- 2X6 WOOD STUDS AT 16" O.C. 5/8" GYPSUM BOARD
- UNIT INTERIOR

KEY NOTES

L.

- I. SEMI-RECESSED FIRE EXTINGUISHER CABINET. 104413 \$ 104416. 2. CONCRETE RAMP. RE: STRUCTURAL.
- 3. I I/2" DIA. GALVANIZED STEEL HANDRAIL. HANDRAIL SHALL EXTEND 12" BEYOND TOP & BOTTOM OF RAMP. TOP OF HANDRAIL SHALL BE MOUNTED 36" A.F.F. ABOVE RAMP. HANDRAIL SHALL RETURN TO WALL OR FLOOR AS INDICATED ON PLAN. MOUNT 2" OFF FACE OF WALL. CONTRACTOR SHALL USE CIRCULAR MOUNTING PLATES AT THE WALL. 055123.
- 4. STEEL COLUMN. PAINT. RE: STRUCTURAL. 5. TREATED TIMBER COLUMN. STAIN. RE: STRUCTURAL.
- 6. CONCRETE RETAINING WALL. RE: STRUCTURAL.
- 7. NO CONCRETE SLAB THIS AREA. RE: STRUCTURAL. 3/4" GYPSUM CEMENT UNDERLAYMENT. TYPICAL 2ND \$ 3RD FLOORS. 05413
- 9. COMPOSITE WOOD DECKING. 061533 10. CONCRETE STEM WALL WITH 2X2 TREATED WOOD FURRING AND 5/8" GYP. BD. WITH WOOD CAP. PAINT.



EST 1935

ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073

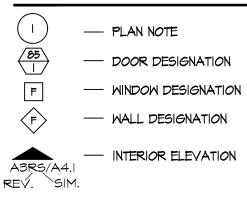


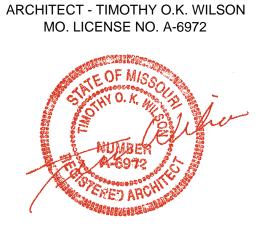


GENERAL NOTES

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- C. PROVIDE AND INSTALL INSULATION FULL HEIGHT OF ALL INTERIOR WALLS THAT REQUIRE INSULATION AND EXTERIOR WALLS. 072100.
- D. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD.
- E. EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR SHEATHING, FACE OF CONCRETE SLAB IS LOCATED AT THE FACE OF THE EXTERIOR SHEATHING.

LEGEND



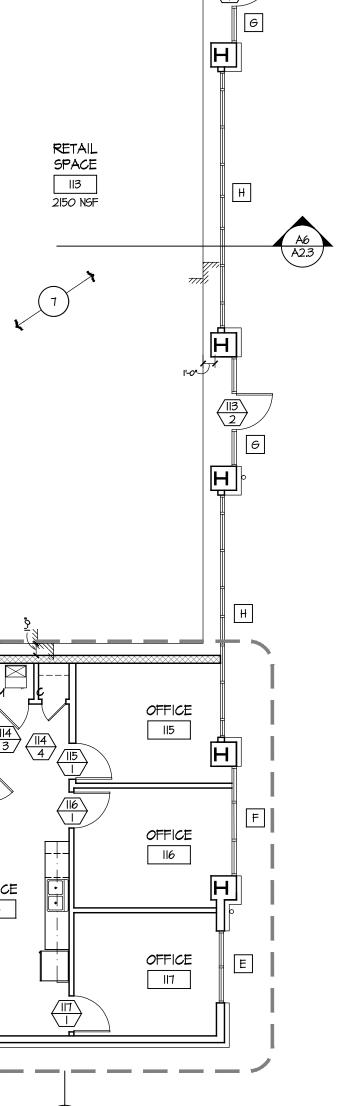


SEAL

1ST FLOOR PLAN

ISSUE DATE: 02.04.2019 **REVISIONS**:

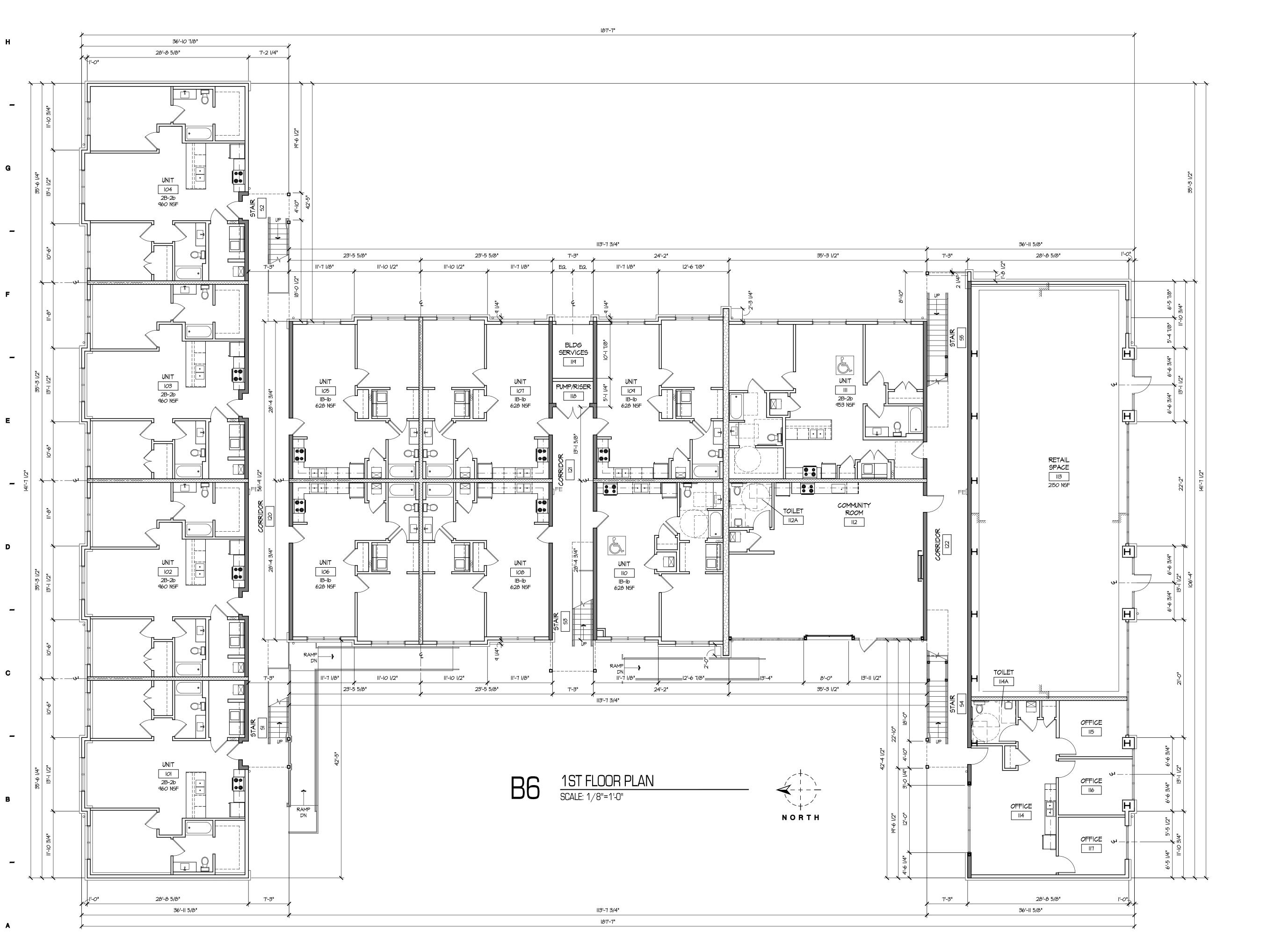
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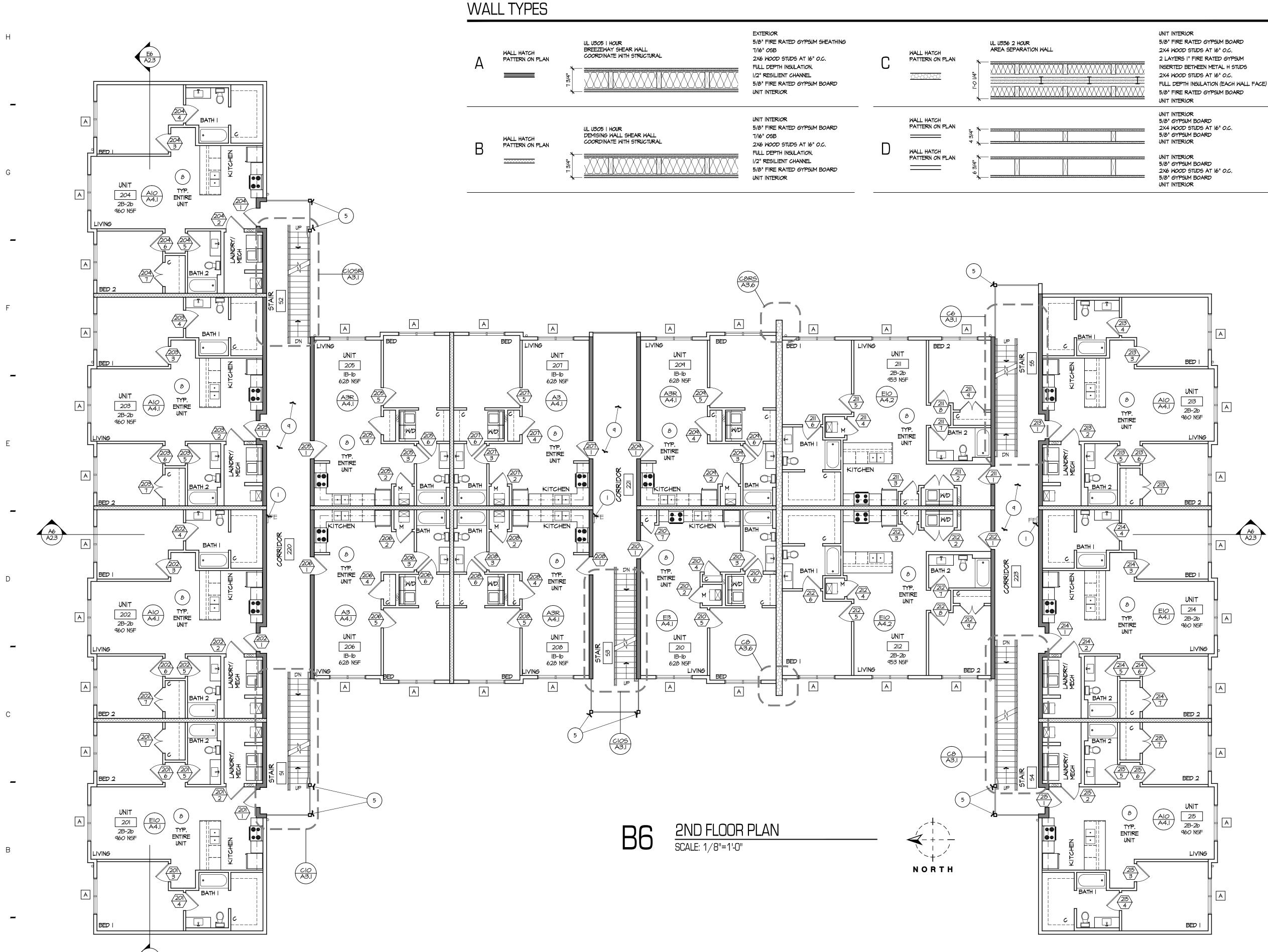


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* 13/4" *	UL U305 I HOUR BREEZEWAY SHEAR WALL COORDINATE WITH STRUCTURAL	EXTERIOR 5/8" FIRE RATED GYPSUM SHEATHING 7/16" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR		WALL HATCH PATTERN ON PLAN	UL U336 2 HOUR AREA SEPARATION WALL
* 13/4" *	UL U305 I HOUR DEMISING WALL SHEAR WALL COORDINATE WITH STRUCTURAL	UNIT INTERIOR 5/8" FIRE RATED GYPSUM BOARD 7/16" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR	D	WALL HATCH PATTERN ON PLAN WALL HATCH PATTERN ON PLAN	6 3/4" 4 3/4"

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EST 1935

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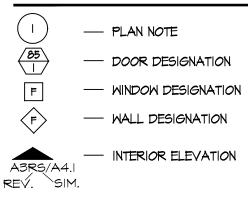


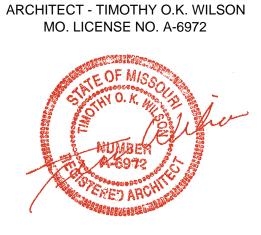
ILSON DUNCAN ARCHITECTS INC KANSAS CITY, MO 64112 - T 816.531.165 RK 228 ₹₽

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- A. THIS PROJECT IS A SUSTAINABLE DESIGN. IT WILL ACHIEVE BRONZE LEVEL CERTIFICATION THOUGH THE NATIONAL GREEN BUILDING STANDARD. REFER TO THE PROJECT MANUAL FOR SPECIFIC SUSTAINABLE RATING SYSTEM REQUIREMENTS FOR MATERIALS AND INSTALLATIONS.
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LEGEND





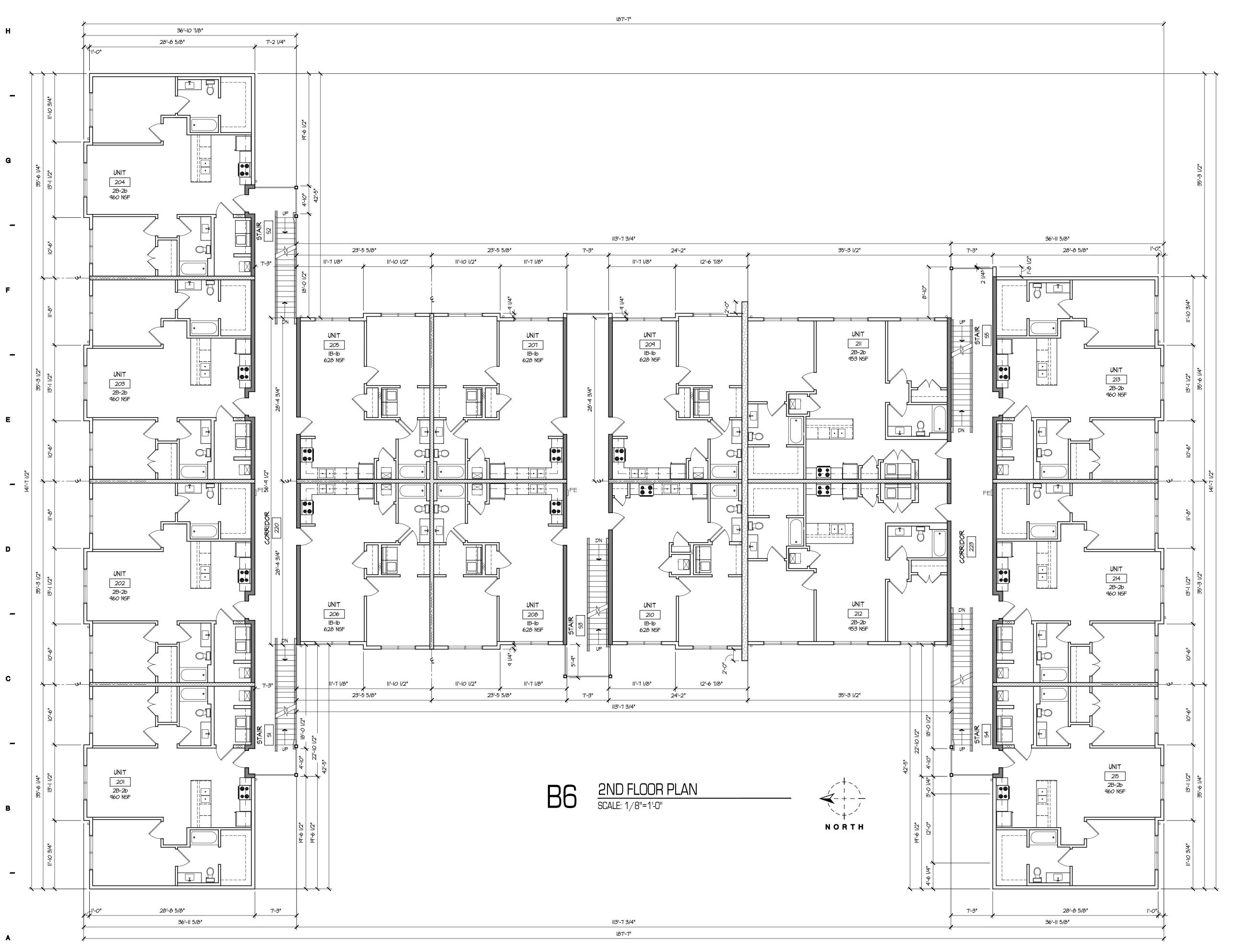
SEAL

2ND FLOOR PLAN

ISSUE DATE: 02.04.2019 **REVISIONS**:

PROJECT NO.: 1817





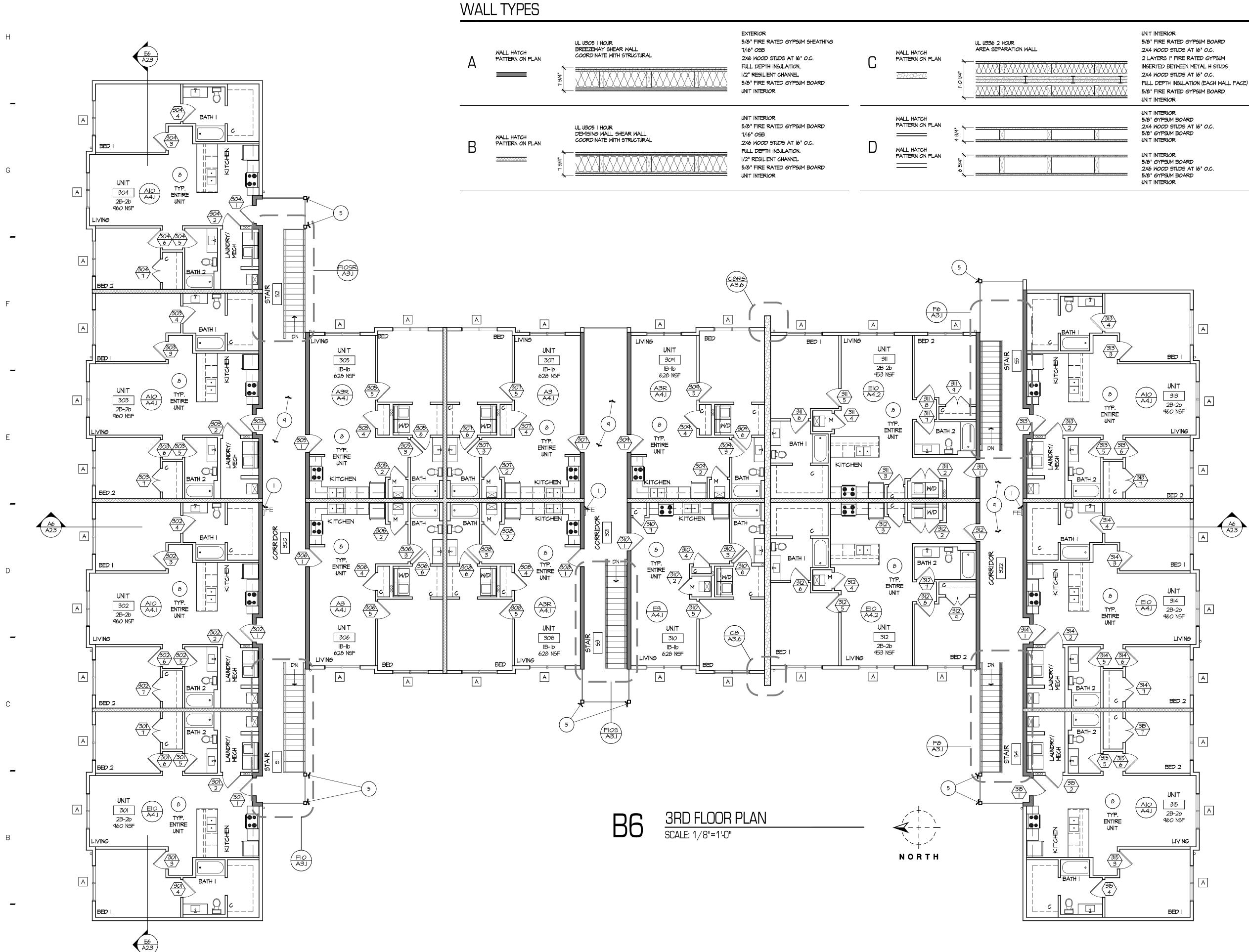
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UL USOS I HOUR BREEZEWAY SHEAR WALL COORDINATE WITH STRUCTURAL	EXTERIOR 5/8" FIRE RATED GYPSUM SHEATHING 7/16" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR	С	WALL HATCH PATTERN ON PLAN	UL U336 2 HOUR AREA SEPARATION WALL
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EST 1935

ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972



3RD FLOOR PLAN

ISSUE DATE: 02.04.2019

REVISIONS:

MANUAL FOR SPECIFIC SUSTAINABLE RATING SYSTEM REQUIREMENTS FOR MATERIALS AND INSTALLATIONS.

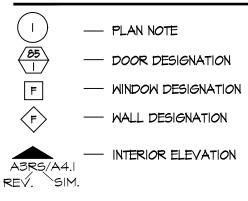
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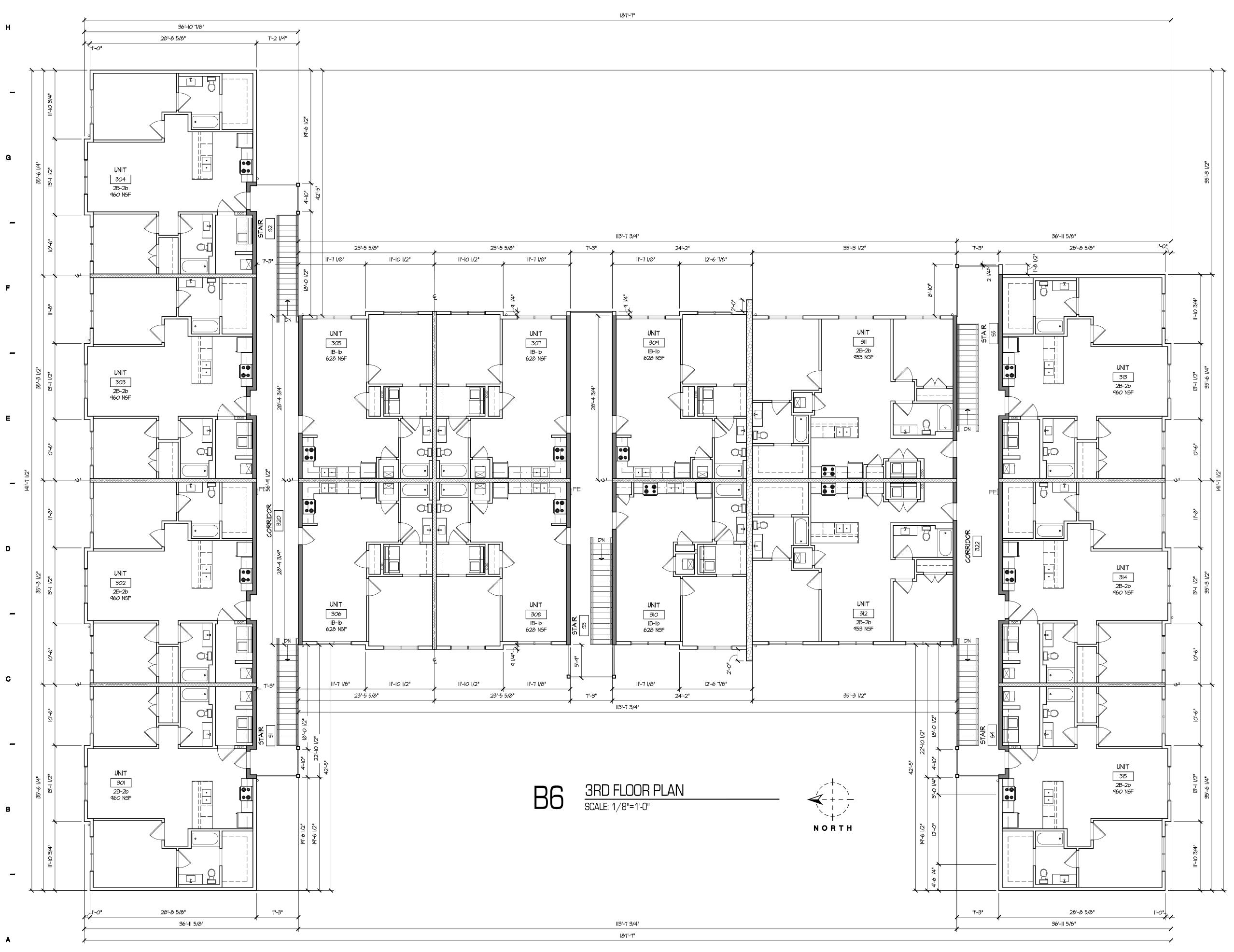
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LEGEND



PROJECT NO.: 1817





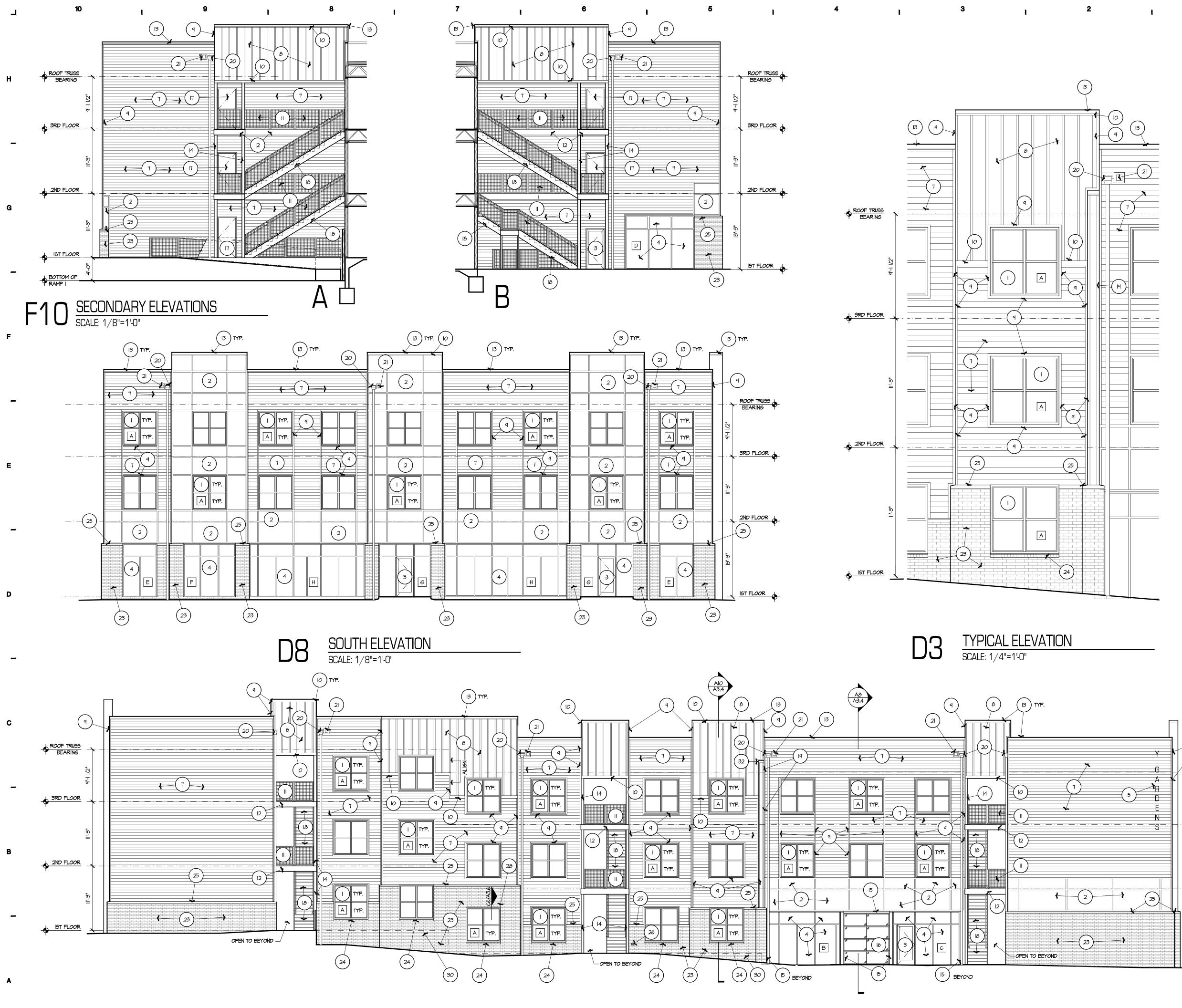
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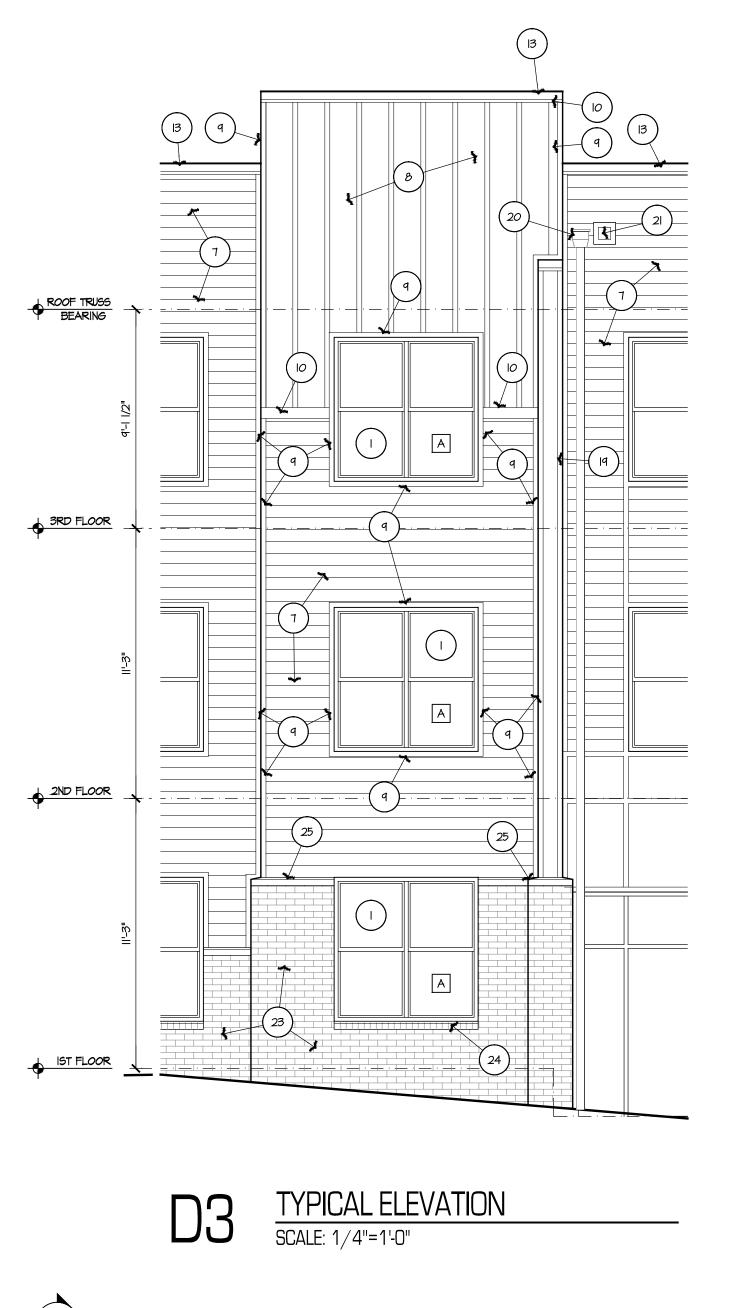
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COURTYARD / WEST ELEVATION SCALE: 1/8"=1'-0"

A6



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- VINYL WINDOW PER SCHEDULE, QUAKER ADVANTEDGE SERIES BASIS OF DESIGN, 085313
- 2. CEMENT FIBER VERTICAL SIDING PANEL W/2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
- 3. ALUMINUM STOREFRONT ENTRANCE. 084113 4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT

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ARCHITECT - TIMOTHY O.K. WILSON

MO. LICENSE NO. A-6972

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ISSUE DATE:

02.04.2019

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PROJECT NO.: 1817

COPYRIGHT © 2019 SWD ARCHITECTS INC.

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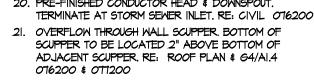
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- BASIS OF DESIGN. 084113 5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
- 6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL 7. CEMENT FIBER BOARD LAP SIDING, 6" EXPOSURE.
- SMOOTH TEXTURE, PAINT COLOR AS INDICATED. 074646 8. CEMENT FIBER VERTICAL SIDING W BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS
- INDICATED. 074646 9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO
- MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646 IO. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
- II. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213. 12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK
- FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061533 13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR
- TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
- 14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
- 15. PRE-FINISHED BREAK METAL INFILL PANEL. OTTIOO 16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
- 17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR
- SCHEDULE. 081113
- 18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6
- NOMINAL COMPOSITE WOOD PLANK. 061533
- 19. KYNAR 500 PREFINISHED I HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESW-400 AS

- MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR
- AS SELECTED FROM MANUFACTURES STANDARD COLOR
- 20. PRE-FINISHED CONDUCTOR HEAD & DOWNSPOUT. TERMINATE AT STORM SEWER INLET. RE: CIVIL 076200



- 076200 \$ 077200
- 22. SIMILAR TO NOTE 20 EXCEPT TERMINATE AT GRADE. PROVIDE CONCRETE SPLASH BLOCK. 076200
- 23. FACE BRICK MASONRY VENEER. 042113 24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED
- ENDS. 042113
- .25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON
- ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
- 26. FIRE DEPARTMENT CONNECTION. RE: MEP
- 27. INSULATED STEEL SECTIONAL DOOR. 083613
- 28. BRICK HEADER COURSE WINDOW HEADER. 042113

- 29. CONCRETE STEM WALL. RE: STRUCTURAL. INSTALL COLD

- FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY \$/ OR FINISH GRADING. 071416
- 30. SAME AS NOTE 29 EXCEPT SHOWN BEYOND AS DASHED. RE: STRUCTURAL.
- 31. BLOCK RETAINING WALL SHOWN AS DASHED FOR CLARITY, RE: CIVIL

- 32. PRE-FINISHED SHEET METAL CAP. RE: ROOF PLAN

A. INSTALL COMPLETE SIDING SYSTEM ON SHEATHING.

SIDING SYSTEM MANUFACTURED BY 'JAMES HARDIE BUILDING PRODUCTS.' INSTALL SIDING, TRIM, CAULK & FLASHING PER MANUFACTURER'S INSTRUCTIONS. SMOOTH

FINISH. ALL DETAILS SHALL BE AS REQ'D BY THE

B. CAULK ALL WINDOW FRAMES, DOOR FRAMES, DOOR SILLS,

TRIM & EXTERIOR WALL PENETRATIONS AS REQUIRED FOR WATERPROOF PERFORMANCE. COLOR TO MATCH ADJACENT TRIM / WALL SURFACE COLOR. USE CAULK

TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC

D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE

FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

CEMENT FIBER VERTICAL SIDING W/ 2 1/2"

CEMENT FIBER BORDER TRIM: JAMES HARDIE. SMOOTH TEXTURE. COLOR: EXTERIOR PAINT I (EXT-PI) (TBD).

FACE BRICK VENEER. KING SIZE. COLOR TO

CEMENT FIBER VERTICAL SIDING W/ BATTEN

CEMENT FIBER LAP SIDING (6" EXPOSURE): JAMES HARDIE. TEXTURE: SMOOTH. COLOR:

CONTRACTOR TO ALLOW FOR TWO COLOR

BOARDS AT 16 O.C.: JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P2 (TBD).

EXT-P3 (TBD) OR EXT-P4 (TBD).

SCHEMES AT ALL LAP SIDING.

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MANUFACTURER.

JOINT MATERIAL & CONDITION.

MANUFACTURER'S FULL RANGE.

EXTERIOR FINISHES

TBD.

ROOF TRUSS

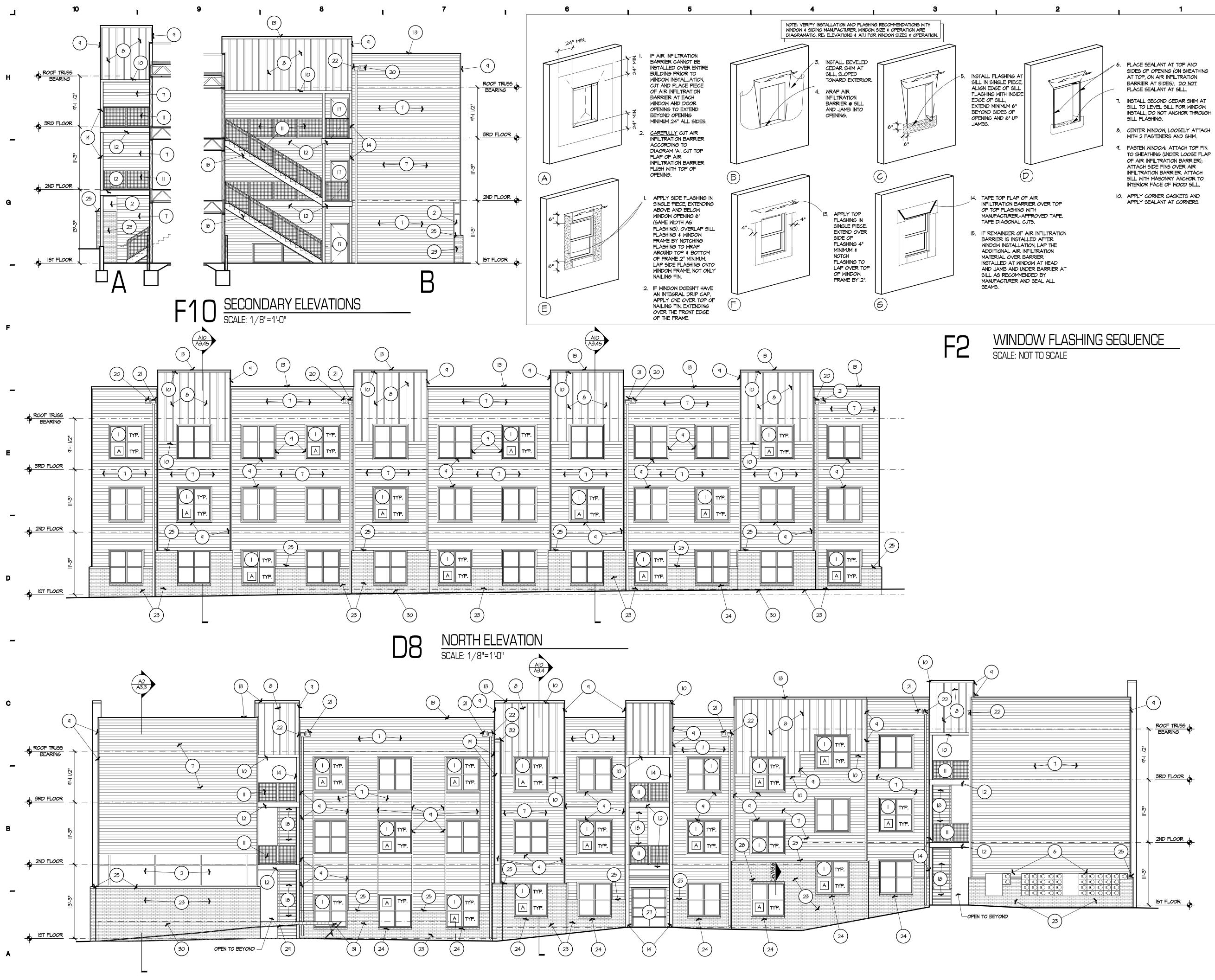
3RD FLOOR

2ND FLOOR

IST FLOOR

C. ALL COLOR SELECTIONS BY ARCHITECT FROM

- ELEVATION GENERAL NOTES



Y GARDENS ,2019 1:22pm M:\1817 Feb 02,

EAST ELEVATION SCALE: 1/8"=1'-0"

A6

SIDES OF OPENING (ON SHEATHING

- INSTALL SECOND CEDAR SHIM AT SILL TO LEVEL SILL FOR WINDOW INSTALL, DO NOT ANCHOR THROUGH
- FASTEN WINDOW: ATTACH TOP FIN TO SHEATHING (UNDER LOOSE FLAP OF AIR INFILTRATION BARRIER);

KEY NOTES

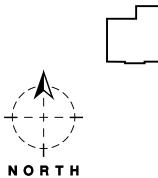
- VINYL WINDOW PER SCHEDULE, QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085313
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- TERMINATE AT STORM SEWER INLET. RE: CIVIL 076200 21. OVERFLOW THROUGH WALL SCUPPER. BOTTOM OF
- SCUPPER TO BE LOCATED 2" ABOVE BOTTOM OF ADJACENT SCUPPER. RE: ROOF PLAN & 64/AL4 076200 \$ 077200
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32. PRE-FINISHED SHEET METAL CAP. RE: ROOF PLAN ELEVATION GENERAL NOTES

- A. INSTALL COMPLETE SIDING SYSTEM ON SHEATHING. SIDING SYSTEM MANUFACTURED BY 'JAMES HARDIE BUILDING PRODUCTS.' INSTALL SIDING, TRIM, CAULK & FLASHING PER MANUFACTURER'S INSTRUCTIONS. SMOOTH
- FINISH. ALL DETAILS SHALL BE AS REQ'D BY THE MANUFACTURER. B. CAULK ALL WINDOW FRAMES, DOOR FRAMES, DOOR SILLS, TRIM & EXTERIOR WALL PENETRATIONS AS REQUIRED FOR WATERPROOF PERFORMANCE. COLOR TO MATCH
- ADJACENT TRIM / WALL SURFACE COLOR. USE CAULK TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC JOINT MATERIAL & CONDITION.
- C. ALL COLOR SELECTIONS BY ARCHITECT FROM
- MANUFACTURER'S FULL RANGE. D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

EXTERIOR FINISHES

- CEMENT FIBER VERTICAL SIDING W/ 2 1/2"
- CEMENT FIBER BORDER TRIM: JAMES HARDIE. SMOOTH TEXTURE. COLOR:
- FACE BRICK VENEER. KING SIZE. COLOR TO
- CEMENT FIBER VERTICAL SIDING W/ BATTEN BOARDS AT 16 O.C.: JAMES HARDIE.
- TEXTURE: SMOOTH. COLOR: EXT-P2 (TBD).
- CEMENT FIBER LAP SIDING (6" EXPOSURE): JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P3 (TBD) OR EXT-P4 (TBD).
- CONTRACTOR TO ALLOW FOR TWO COLOR
- A2.2 F8B A2.2 A6 FBA A2.2





ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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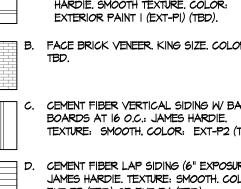


ELEVATION

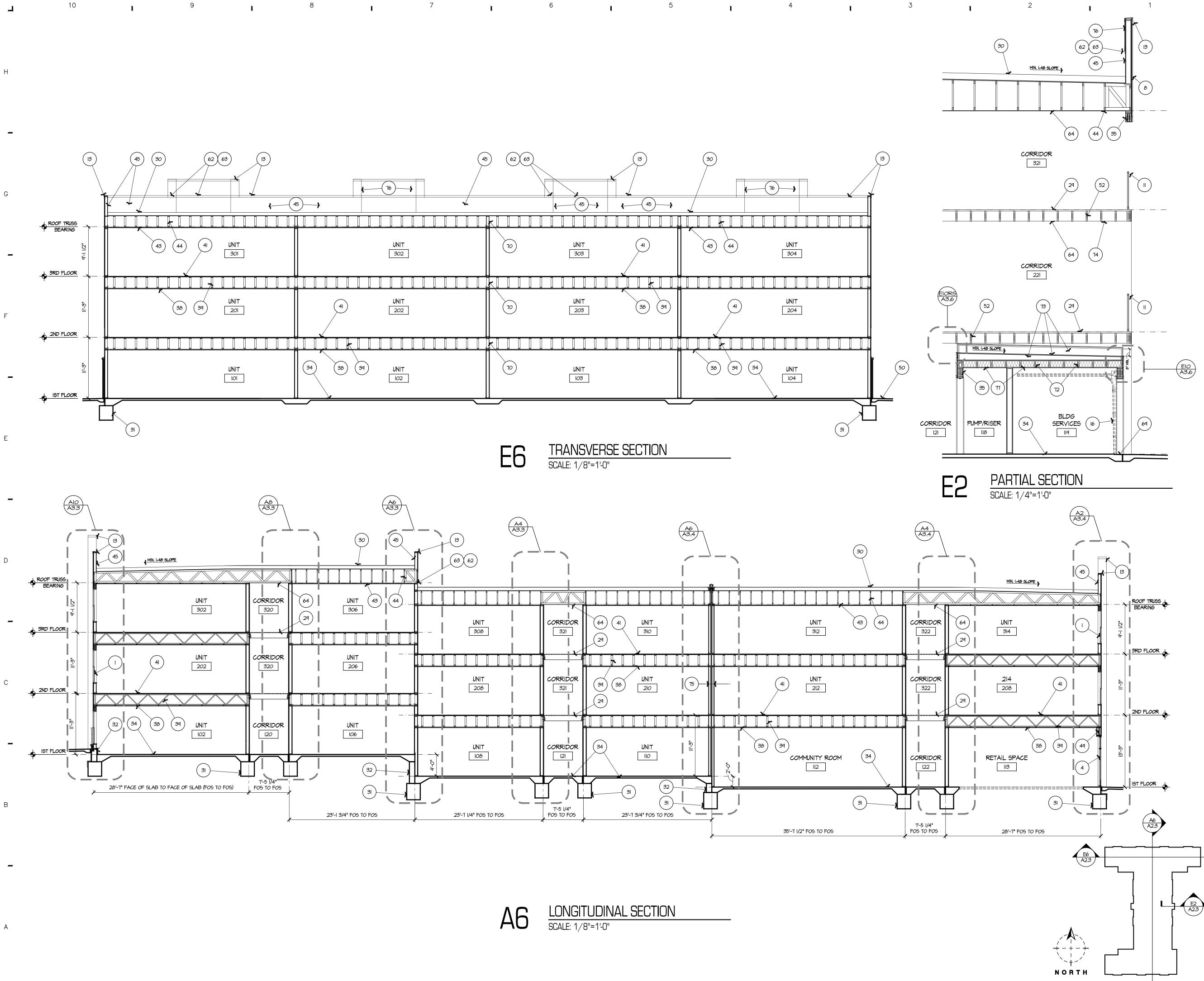
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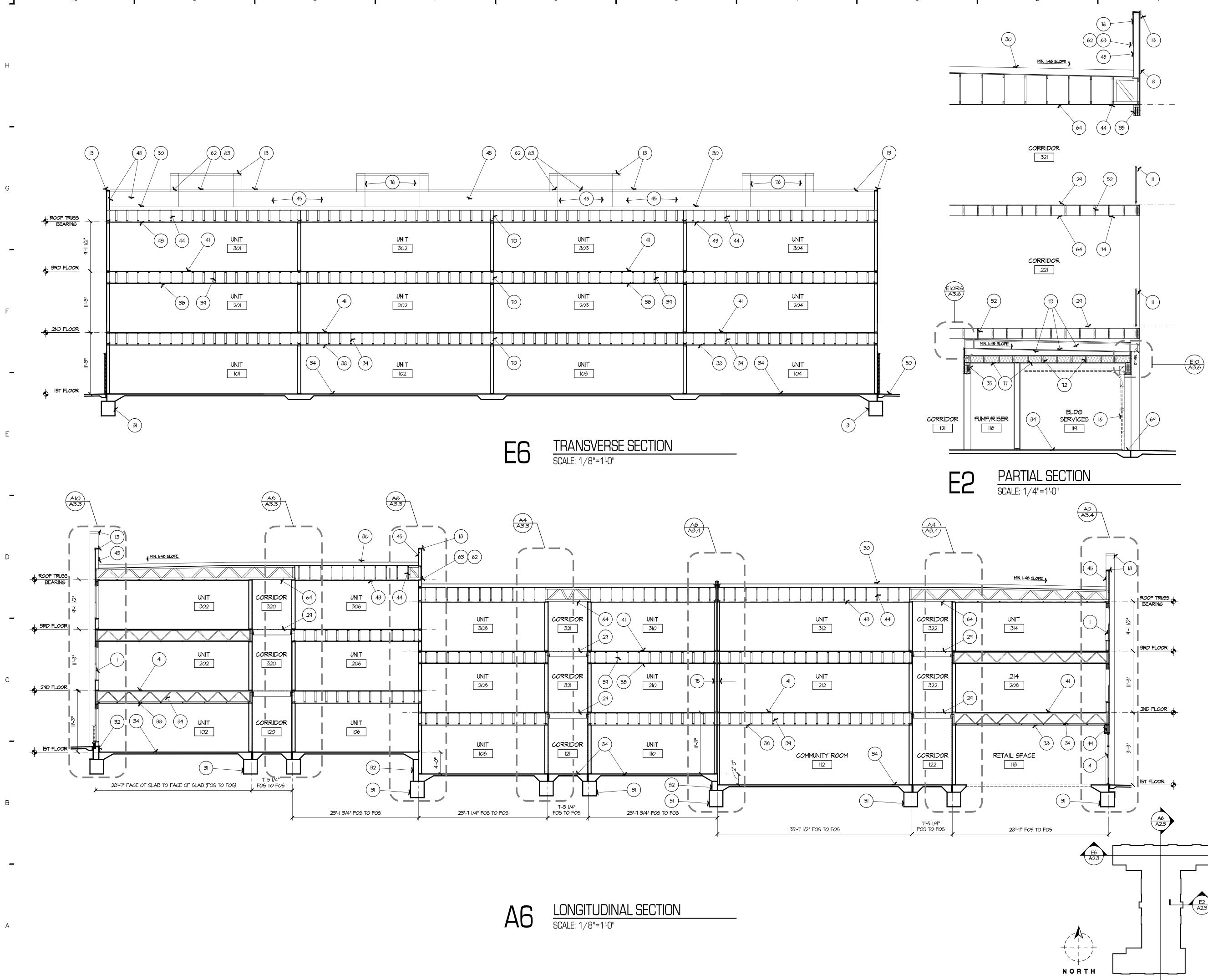
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KEY NOTES

- I. VINYL WINDOW PER SCHEDULE, QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085313
- CEMENT FIBER VERTICAL SIDING PANEL W 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646 3. ALUMINUM STOREFRONT ENTRANCE. 084113
- 4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 45/UT BASIS OF DESIGN. 084113 5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL
- LETTERS. FONT TO BE SELECTED BY OWNER. 101400 6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
- 7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
- 8. CEMENT FIBER VERTICAL SIDING W BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
- 9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646 IO. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
- II. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213. 12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK
- FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 06|533 13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.
- 011100 14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE
- DECKING. RE: STRUCTURAL. 15. PRE-FINISHED BREAK METAL INFILL PANEL. OTTIOO 16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
- 17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE, 081113 18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES
- BOLTED TO MC CHANNEL STEEL STRINGERS, RE: STRUCTURAL, TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061533
- 19. KYNAR 500 PREFINISHED I HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESM-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES, COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR 20. 1/2" RC-I RESILIENT CHANNEL.
- 21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING. 061600
- 22. NOT USED 23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
- 24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS 042113
- 25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113 26. FIRE DEPARTMENT CONNECTION, RE: MEP
- 27. INSULATED STEEL SECTIONAL DOOR. 083613 28. GALVANIZED STEEL ANGLE LINTEL. RE: STRUCTURAL. 29. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE
- 06|533 30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF INSULATION ON PLYWOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1:48. RE: ROOF
- PLANS. RE: STRUCTURAL. 075423 31. CONCRETE FOUNDATION. RE: STRUCTURAL.
- 32. CONCRETE STEM WALL, RE: STRUCTURAL, INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY \$/OR FINISH GRADING. 071416 33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW
- TOP OF SLAB. 072100 34. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER, RE: STRUCTURAL.
- 35. WOOD HEADER. RE: STRUCTURAL. 36. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN. PAINT.
- 37. I X EASED EDGE WOOD WINDOW STOOL \$ 3/4" QUARTER ROUND APRON. PAINT. 062023 38. 5/8" FIRE RATED (GYP BD) ON 7/8" HAT CHANNEL & SOUND ISOLATION CLIP (I-5/8" TOTAL) PER FLOOR/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
- 39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
- 40. 3 1/2" BATT INSULATION. 072100 41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD, 035413
- 42. MIN. R-20 BATT INSULATION. 072100 43. I HR FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
- 44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM 1:48 TOWARDS PARAPET WALLS/ THRU-WALL SCUPPERS. RE: STRUCTURAL.
- 45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING. 46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT.
- 47. 7/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER. RE: STRUCTURAL. 012500 48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE.
- PROVIDE DRIP EDGE WHERE REQUIRED. OTTIOO 49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL.
- 50. EXTERIOR CONCRETE WALK. RE: CIVIL.
- 51. PRE-ENGINEERED WOOD BEAM. RE: STRUCTURAL. 52. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL.
- 53. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER, TERMITE SHIELD, & ANCHOR BOLT. RE: STRUCTURAL 313116
- 54. MASONRY THRU WALL FLASHING W/ WEEPS AT 24" O.C. 042113 55. MINIMUM 1/4" GAP. DO NOT CAULK.
- 56. ADA COMPLIANT ALUMINUM DOOR THRESHOLD. SET IN BED OF SEALANT.
- 57. DOOR THRESHOLD TO COMPLETELY COVER SLAB EDGE INSULATION.
- 58. 1/4" CONCRETE EXPANSION MATERIAL. 59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W
- ELASTOMERIC SEALANT. 019200 60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE "ALUMINUM" WHERE ADJACENT TO CLEAR ANODIZED FINISHES. 019200
- 61. MASONRY TIES AT 16" O.C. VERTICAL \$ 32" O.C HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE. 042113 62. PRE-FINISHED METAL TERMINATION BAR. 076200
- 63. PRE-FINISHED METAL COUNTER FLASHING. 076200 64. CEMENT FIBER BOARD SOFFIT. SMOOTH TEXTURE. PAINT.
- 074646 65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB. 077100 \$ 083613
- 66. HOLLOW METAL DOOR & FRAME PER DOOR SCHEDULE. PAINT. OBIII3
- 67. DOUBLE STUD AT JAMB CONDITION. TYPICAL. 68. WOOD BLOCKING/ NAILER AS REQUIRED. 69. RECESS CONCRETE SLAB AT OVERHEAD SECTIONAL DOOR
- THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS. TO. 1/2" MIN. GYP BD OR 3/8" MIN WOOD SHEATHING
- DRAFTSTOPPING ALIGNED W/ UNIT DEMISING WALLS. RE: ROOF PLAN FOR LOCATIONS. NOTE: CONTINUOUS SHEATHING PER STRUCTURAL CAN DOUBLE AS DRAFTSTOPPING. UNDERGROUND STORM WATER PIPE. RE: CIVIL. RE: STRUCTURAL FOR REQUIREMENTS ON CONCRETE TRENCH BACKFILL.
- 72. 2X WOOD CEILING JOIST. RE: STRUCTURAL 73. TPO SINGLE PLY ROOFING ON 3/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 3/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR. TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" & TERMINATE W TERMINATION BAR.
- TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL. PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE 75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL
- TYPE 'C.' RE: AO.2 76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
- TT. MIN. R-30 BATT INSULATION. 012100



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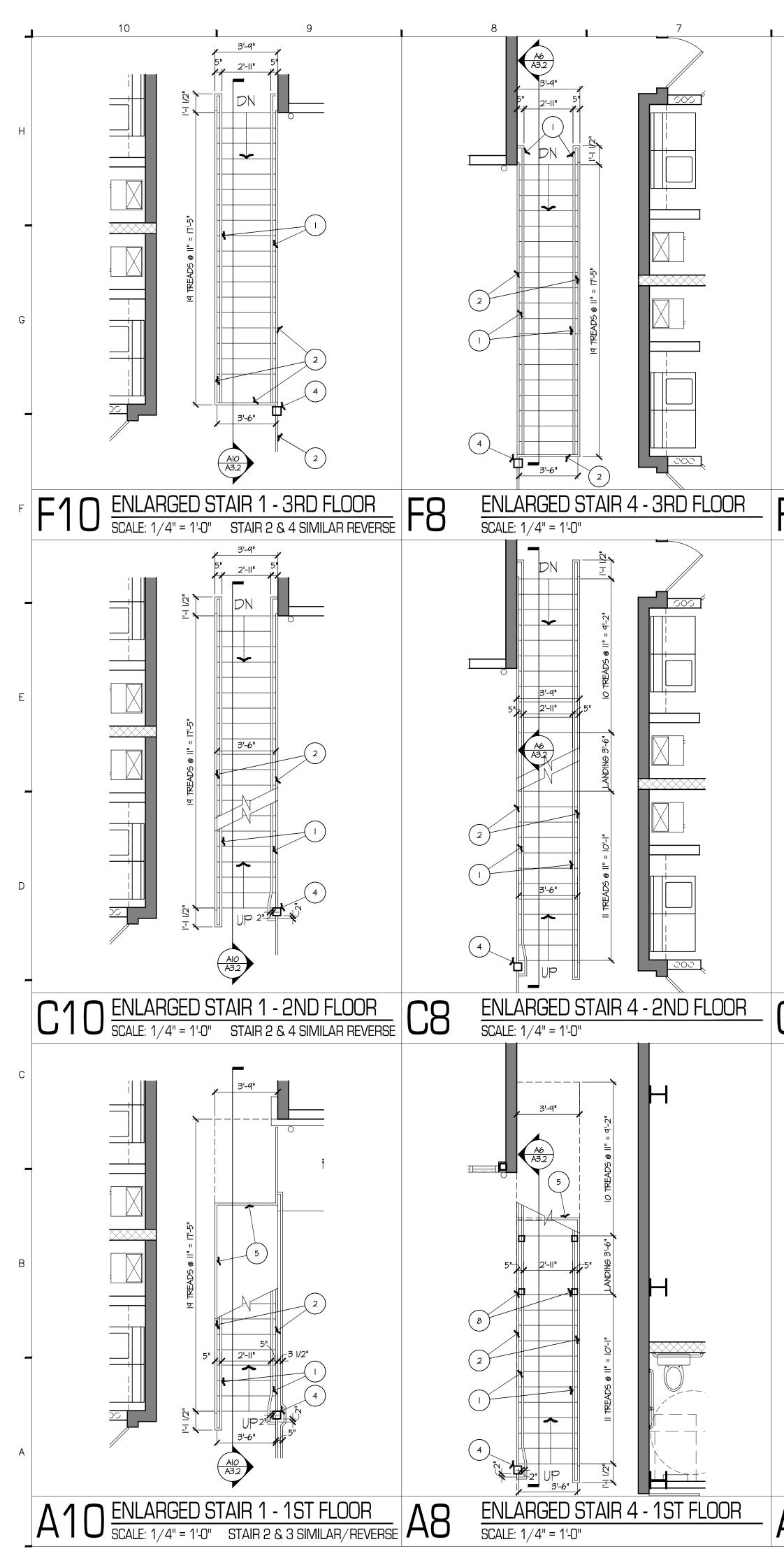


BUILDING SECTIONS

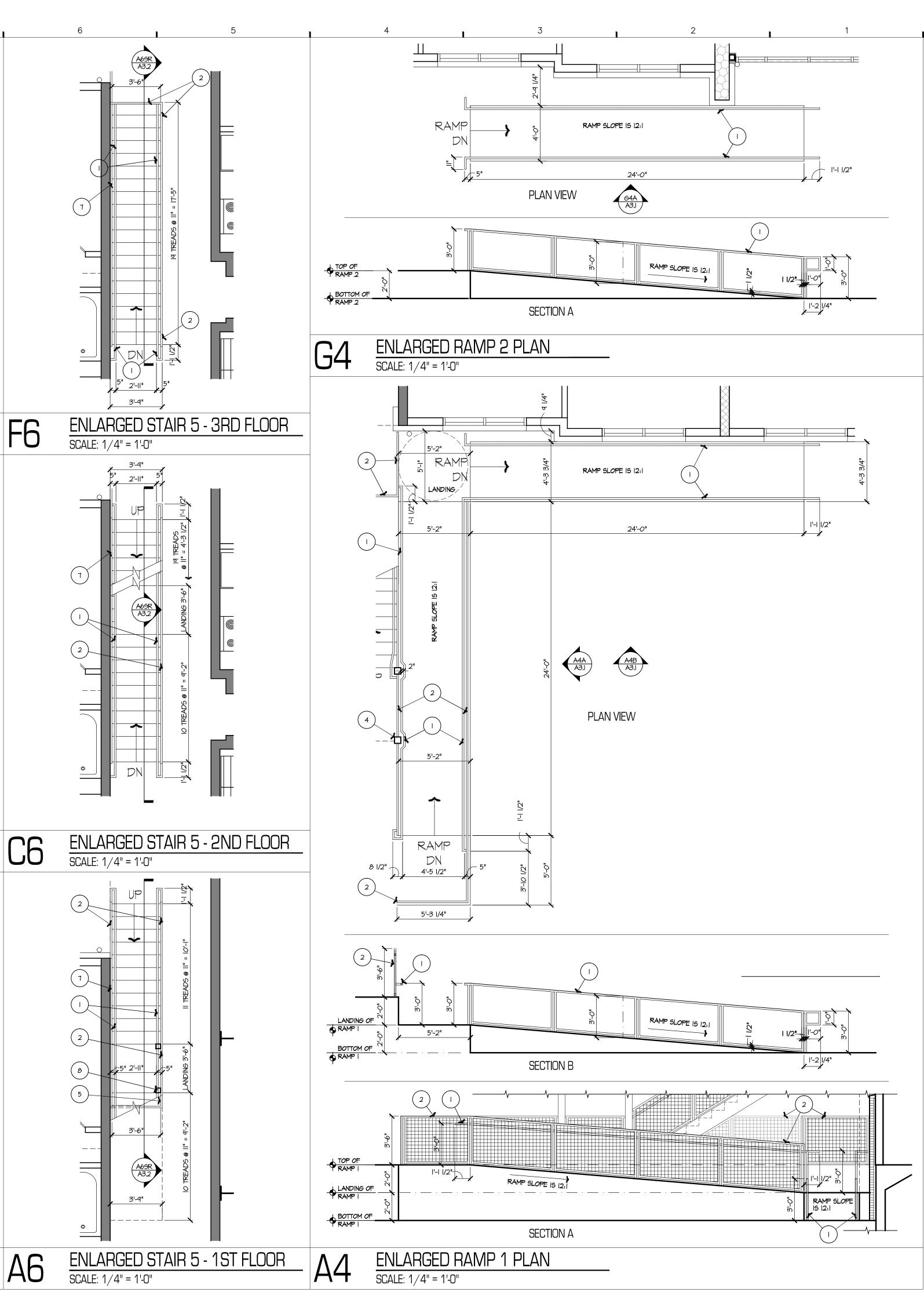
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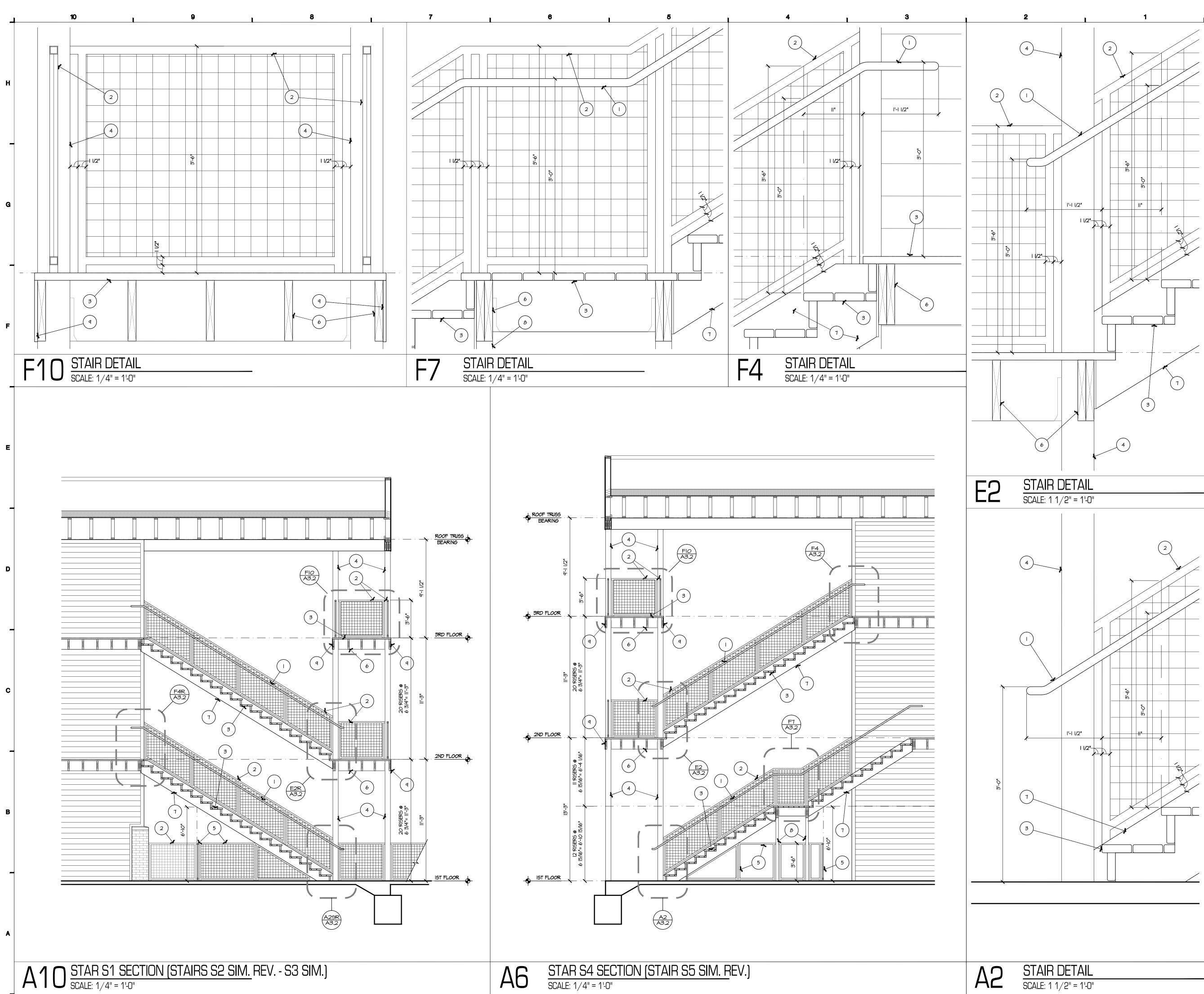
- I. I I/2" DIA. GALV. STEEL HANDRAIL, CONTINUOUS. MOUNT 2" OFF GUARDRAIL / WALL. EXTEND I'-I I/2" PAST TOP & BOTTOM RISER. TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL. RETURN HANDRAIL TO WALL / GAURDRAIL OR GROUND. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. TYP. AT RAMP LOCATIONS WHERE ADJACENT DROP OFF IS 24" OR LESS ADD I I/2" BOTTOM BAR I I/2" A.F.F.
- 2. 42" HIGH | 1/2" SQ. GALV. STEEL GUARDRAIL W/ BOTTOM BAR | 1/2" A.F.F., W/ GALV. WIRE MESH BETWEEN BARS. MOUNT TO DECK W/ GALV. STEEL PLATE & BOLTS. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. AT STEEL STAIR STRINGER WELD TO STRINGER. TYP.
- 3. COMPOSITE DECKING.
- TREATED WOOD COLUMN. REFER TO STRUCTURAL.
 INSTALL GUARDRAIL UNDER STAIR WHERE BOTTOM OF
- STAIR CONSTRUCTION IS BELOW 6'-10" A.F.F... 6. 2X TREATED WOOD FRAMING. REFER TO STRUCTURAL.
- GALVANIZED STEEL STAIR STRINGER. REFER TO STRUCTURAL.
 TREATED WOOD POST FOR LANDING SUPPORT. REFER TO STRUCTURAL.
- 9. I"XI2" CEMENT BOARD FACIA.



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STAR S4 SECTION (STAIR S5 SIM. REV.) SCALE: 1/4" = 1'-0"

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KEYNOTES

- I I/2" DIA. GALV. STEEL HANDRAIL, CONTINUOUS. MOUNT 2" OFF GUARDRAIL / WALL. EXTEND I'-I I/2" PAST TOP \$ BOTTOM RISER. TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL. RETURN HANDRAIL TO WALL / GAURDRAIL OR GROUND. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. TYP. AT RAMP LOCATIONS WHERE ADJACENT DROP OFF IS 24" OR LESS ADD | 1/2" BOTTOM BAR | 1/2" A.F.F.
- 42" HIGH I 1/2" SQ. GALV. STEEL GUARDRAIL W/ BOTTOM BAR | 1/2" A.F.F., W GALV. SILLE COARCIAL IN DOTION BAR | 1/2" A.F.F., W GALV. WIRE MESH BETWEEN BARS. MOUNT TO DECK W GALV. STEEL PLATE & BOLTS. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. AT STEEL STAIR STRINGER WELD TO STRINGER.
- 3. COMPOSITE DECKING. 061533
- 4. TREATED WOOD COLUMN. REFER TO STRUCTURAL. INSTALL GUARDRAIL UNDER STAIR WHERE BOTTOM OF STAIR CONSTRUCTION IS BELOW 6'-10" A.F.F.. WHERE THERE IS NO ADJACENT DROP OFF THE WIRE MESH IS NOT REQUIRED.
- 6. 2X TREATED WOOD FRAMING. REFER TO STRUCTURAL.
- GALVANIZED STEEL STAIR STRINGER. REFER TO STRUCTURAL.
- TREATED WOOD POST FOR LANDING SUPPORT. REFER TO STRUCTURAL. 9. I"XI2" CEMENT BOARD FACIA.

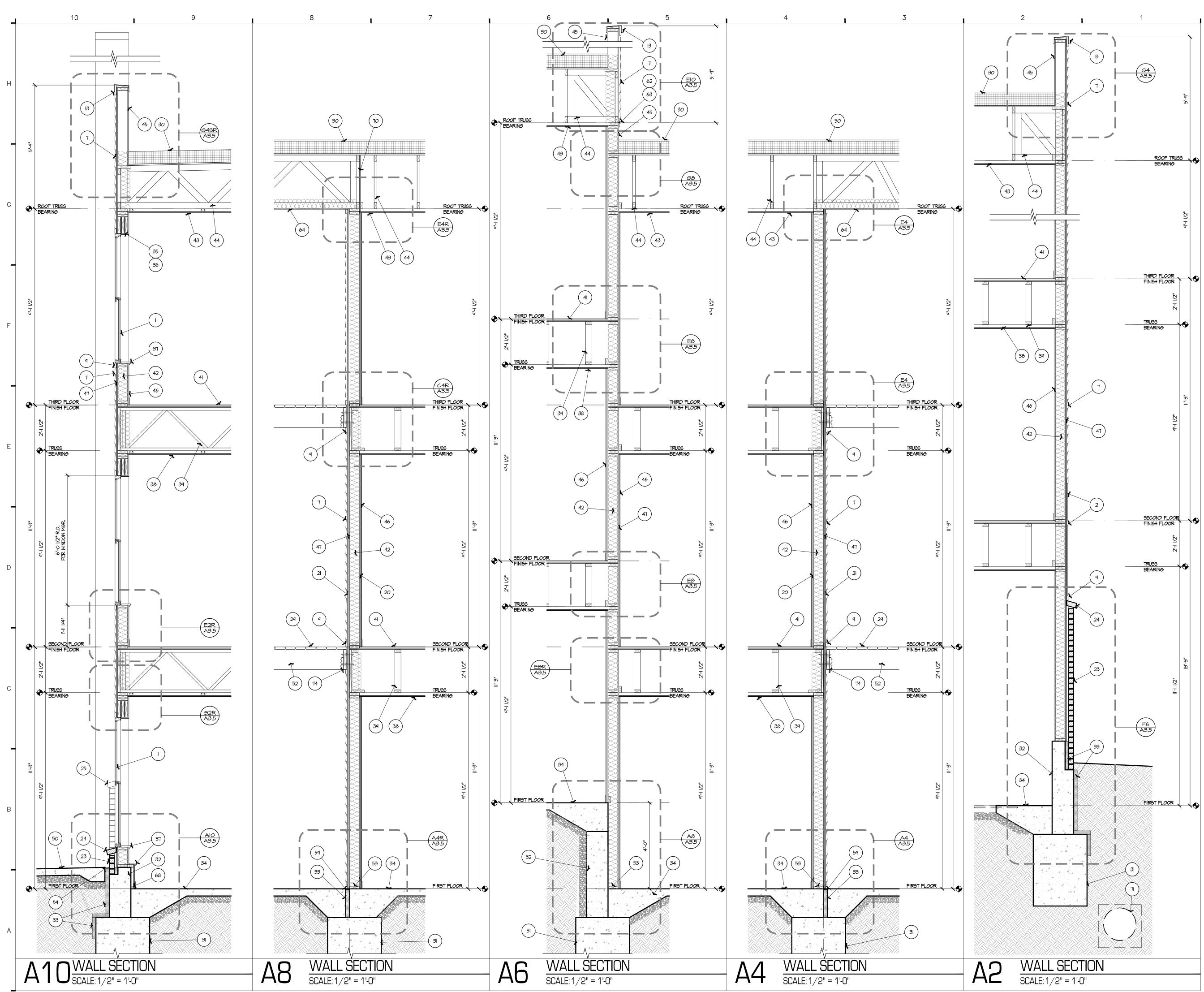


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KEY NOTES

- VINYL WINDOW PER SCHEDULE, QUAKER ADVANTEDGE SERIES BASIS OF DESIGN, 085313
- 2. CEMENT FIBER VERTICAL SIDING PANEL W/2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
- ALUMINUM STOREFRONT ENTRANCE. 084113 ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
- 5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
- 6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
- CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
- 8. CEMENT FIBER VERTICAL SIDING W BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
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 - 10. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
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 - 011100 14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
 - 15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100 16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613 17. EXTERIOR HOLLOW METAL DOOR, PAINT, RE: DOOR SCHEDULE, 081113
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 - EXPANSION JOINT COVER MODEL ESW-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR
 - 20. 1/2" RC-1 RESILIENT CHANNEL. 21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING, 061600
 - 22. NOT USED
 - 23. FACE BRICK MASONRY VENEER, USE SOLID UNITS AT EXPOSED ENDS. 042113 24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS.
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 - 30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF INSULATION ON PLYMOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1:48. RE: ROOF PLANS. RE: STRUCTURAL. 075423
 - 31. CONCRETE FOUNDATION. RE: STRUCTURAL. 32. CONCRETE STEM WALL, RE: STRUCTURAL, INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY \$/OR FINISH GRADING. 071416 33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION
 - PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW TOP OF SLAB. 012100 REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
 - 35. WOOD HEADER. RE: STRUCTURAL.
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 - ASSEMBLY TYPE 'A'. RE: AO.3 39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL. 40. 3 1/2" BATT INSULATION. 072100
 - 41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. 035413 42. MIN. R-20 BATT INSULATION. 072100
 - 43. I HR FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A', RE: A0.3 44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM 1:48 TOWARDS PARAPET WALLS/ THRU-WALL SCUPPERS. RE: STRUCTURAL.
 - 45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING.
 - 46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT. 47. 7/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER, RE: STRUCTURAL, 072500
 - 48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 077100 49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL.
 - 50. EXTERIOR CONCRETE WALK. RE: CIVIL.
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 - 59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W ELASTOMERIC SEALANT. 079200
 - 60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE "ALUMINUM" WHERE ADJACENT TO CLEAR ANODIZED FINISHES, 079200
 - 61. MASONRY TIES AT 16" O.C. VERTICAL \$ 32" O.C. HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE.
 - 62. PRE-FINISHED METAL TERMINATION BAR. 076200 63. PRE-FINISHED METAL COUNTER FLASHING. 016200
 - 64. CEMENT FIBER BOARD SOFFIT. SMOOTH TEXTURE. PAINT.
 - 65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB OTTIOO \$ 083613
 - 66. HOLLOW METAL DOOR \$ FRAME PER DOOR SCHEDULE. PAINT. 081113
- 68. WOOD BLOCKING/ NAILER AS REQUIRED.
 - 69. RECESS CONCRETE SLAB AT OVERHEAD SECTIONAL DOOR THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS.
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 - BACKFILL. 72. 2X WOOD CEILING JOIST. RE: STRUCTURAL
 - 73. TPO SINGLE PLY ROOFING ON 3/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 3/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR, TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" \$ TERMINATE W/ TERMINATION BAR. 74. TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL.
 - PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE 75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C.' RE: AO.2
 - CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
 - 77. MIN. R-30 BATT INSULATION. 072100



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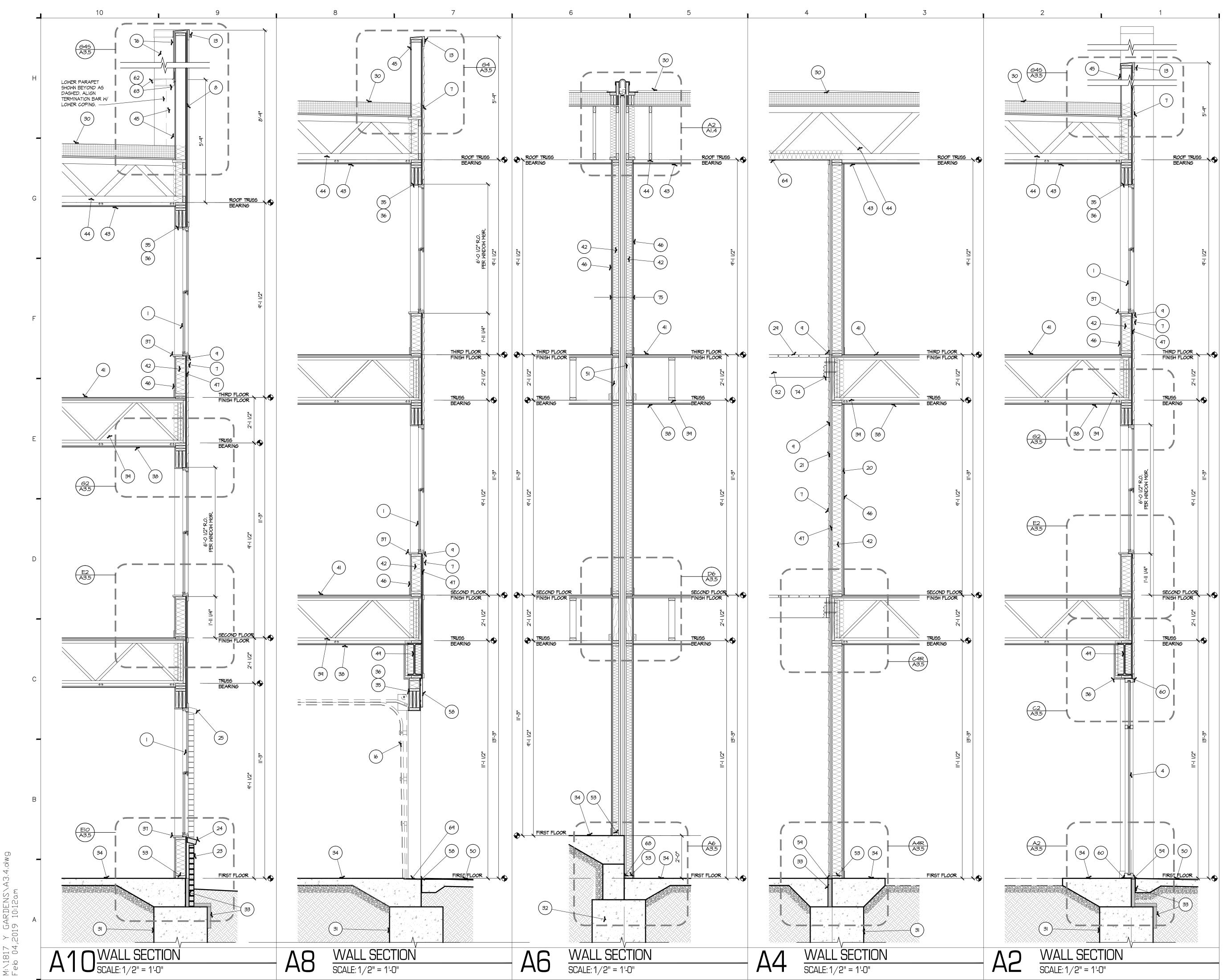


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WALL SECTIONS

ISSUE DATE: 02.04.2019 **REVISIONS**:



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KEY NOTES

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- ALUMINUM STOREFRONT ENTRANCE. 084113 ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
- BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400 WALL MOUNTED ELECTRICAL EQUIPMENT, RE: ELECTRICAL
- CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
- CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE, PAINT COLOR AS INDICATED. 074646
- 2 I/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646 IO. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
- GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213.
- 12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061535 13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.
- 14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL. 15. PRE-FINISHED BREAK METAL INFILL PANEL. OTTIOO
- 16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613 1. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
- 18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES
- BOLTED TO MC CHANNEL STEEL STRINGERS, RE: STRUCTURAL, TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK, 061533 19. KYNAR 500 PREFINISHED I HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESW-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR
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- 23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
- 24. BRICK ROWLOCK SILL, USE SOLID UNITS AT EXPOSED ENDS.
- 25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS, USE SOLID UNITS AT EXPOSED ENDS. 042113 26. FIRE DEPARTMENT CONNECTION. RE: MEP
- 27. INSULATED STEEL SECTIONAL DOOR. 083613 28. GALVANIZED STEEL ANGLE LINTEL. RE: STRUCTURAL.
- 29. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE. 30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF
- INSULATION ON PLYMOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1:48. RE: ROOF PLANS. RE: STRUCTURAL. 075423 31. CONCRETE FOUNDATION. RE: STRUCTURAL.
- 32. CONCRETE STEM WALL, RE: STRUCTURAL, INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY \$/OR FINISH GRADING. 071416 33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW TOP OF SLAB. 012100
- 34. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
- 35. WOOD HEADER. RE: STRUCTURAL.
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- 39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL. 40. 3 1/2" BATT INSULATION. 072100
- 41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE \$ GROOVE PLYWOOD. 035413 42. MIN. R-20 BATT INSULATION. 072100
- 43. I HR FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3 44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM I:48 TOWARDS PARAPET WALLS/
- THRU-WALL SCUPPERS. RE: STRUCTURAL. 45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING.
- 46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT. 47. 1/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER. RE: STRUCTURAL. 012500
- 48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 071100
- 49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL. 50. EXTERIOR CONCRETE WALK. RE: CIVIL.
- 51. PRE-ENGINEERED WOOD BEAM. RE: STRUCTURAL 52. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL
- 53. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER, TERMITE SHIELD, & ANCHOR BOLT. RE: STRUCTURAL 313116 54. MASONRY THRU WALL FLASHING W/ WEEPS AT 24" O.C. 042113
- 55. MINIMUM 1/4" GAP. DO NOT CAULK. 56. ADA COMPLIANT ALUMINUM DOOR THRESHOLD. SET IN BED OF SEALANT.
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- 59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W ELASTOMERIC SEALANT. 079200
- 60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE "ALUMINUM" WHERE ADJACENT TO CLEAR ANODIZED FINISHES. 079200
- 61. MASONRY TIES AT 16" O.C. VERTICAL & 32" O.C. HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W/ EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE. 62. PRE-FINISHED METAL TERMINATION BAR. 076200
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- 65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB. 077100 \$ 083613
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- 75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C.' RE: A0.2 76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
- 77. MIN. R-30 BATT INSULATION. 072100



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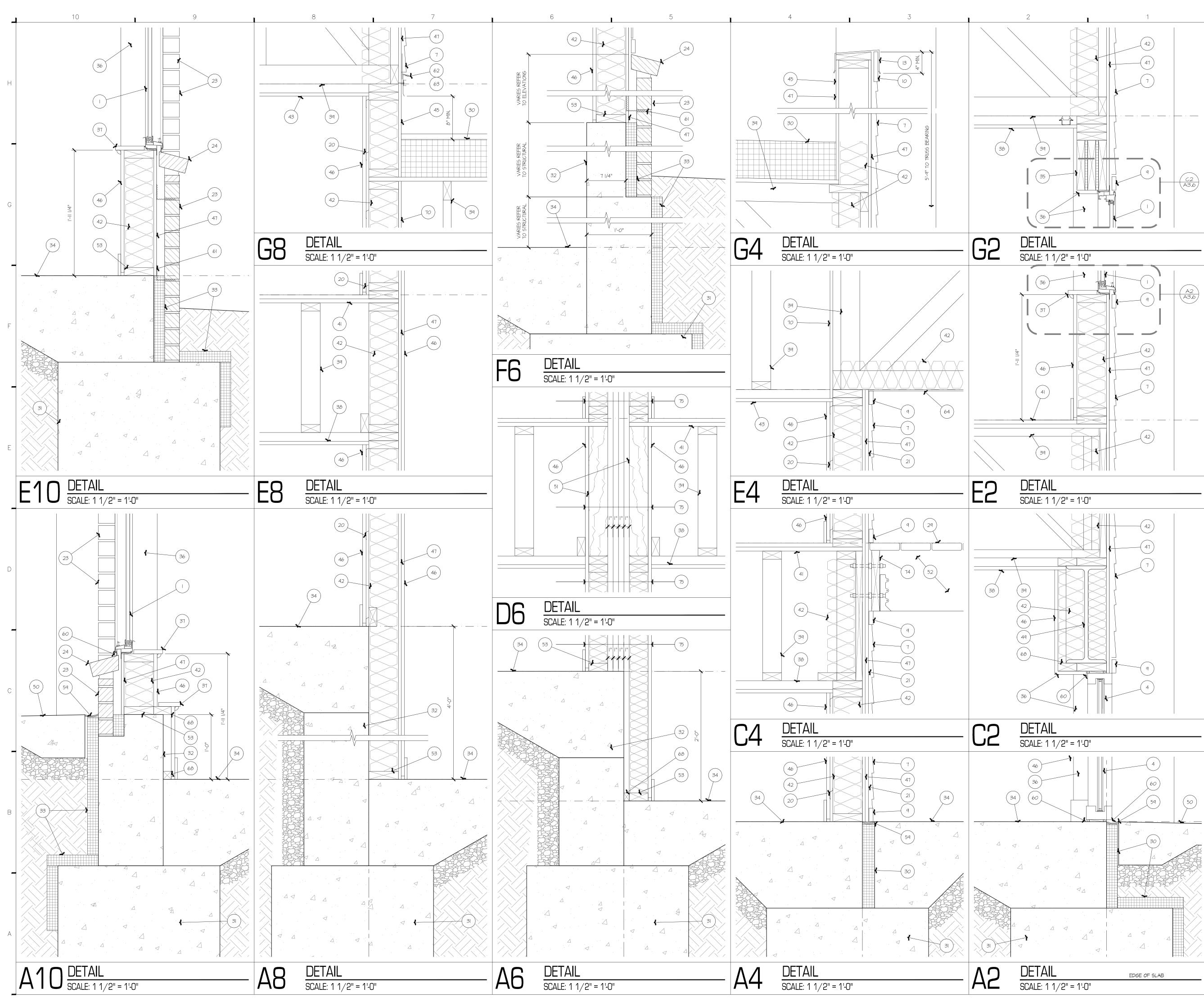
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WALL SECTIONS

ISSUE DATE: 02.04.2019

REVISIONS:



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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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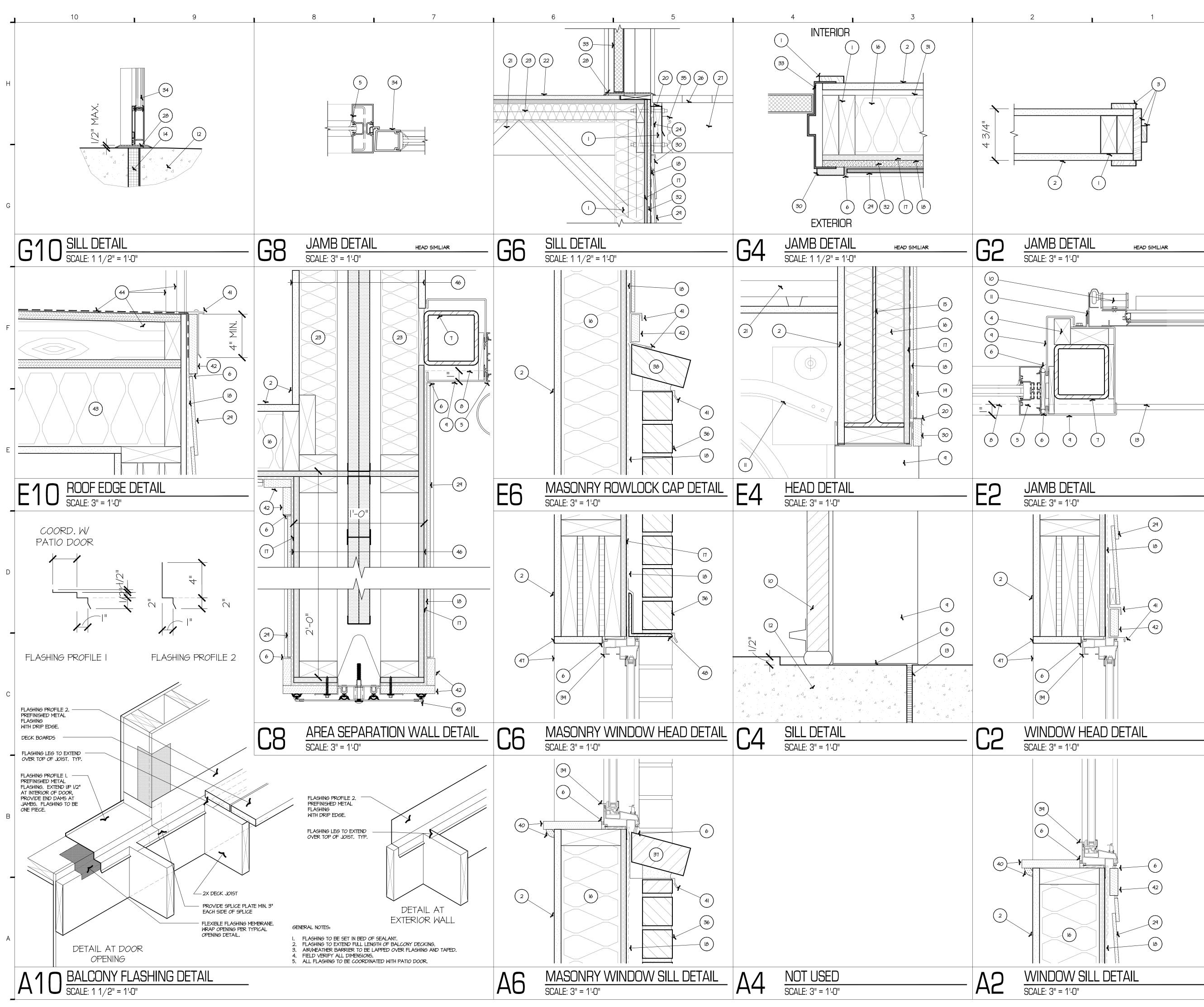
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DETAILS

ISSUE DATE: 02.04.2019 **REVISIONS**:



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KEYNOTES

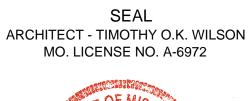
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- 5. ALUMINUM STOREFRONT SYSTEM. RE: BUILDING ELEVATIONS. 6. SEALANT CONTINUOUS.
- 7. STEEL TUBE COLUMN. RE: STRUCTURAL.
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- 9. PREFINISHED SHEET METAL WRAP. IO. SECTIONAL DOOR. 083613.
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- PAINT 48. HOT DIPPED GALVANIZED L5X5X5/16" LINTEL. & BEARING AT EACH END. MAXIMUM SPAN FOR LOOSE LINTEL IS 6'-&".



ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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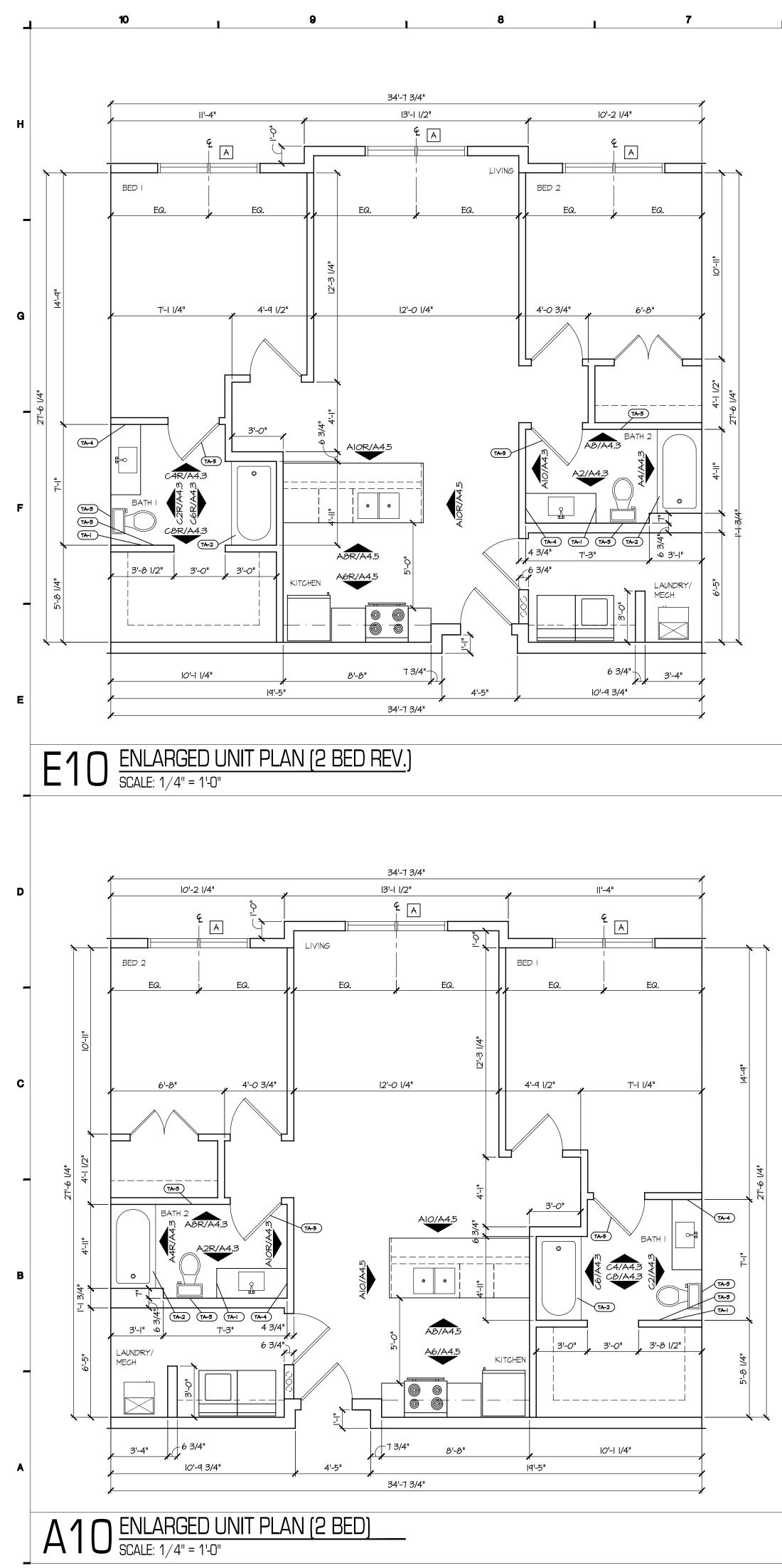




DETAILS

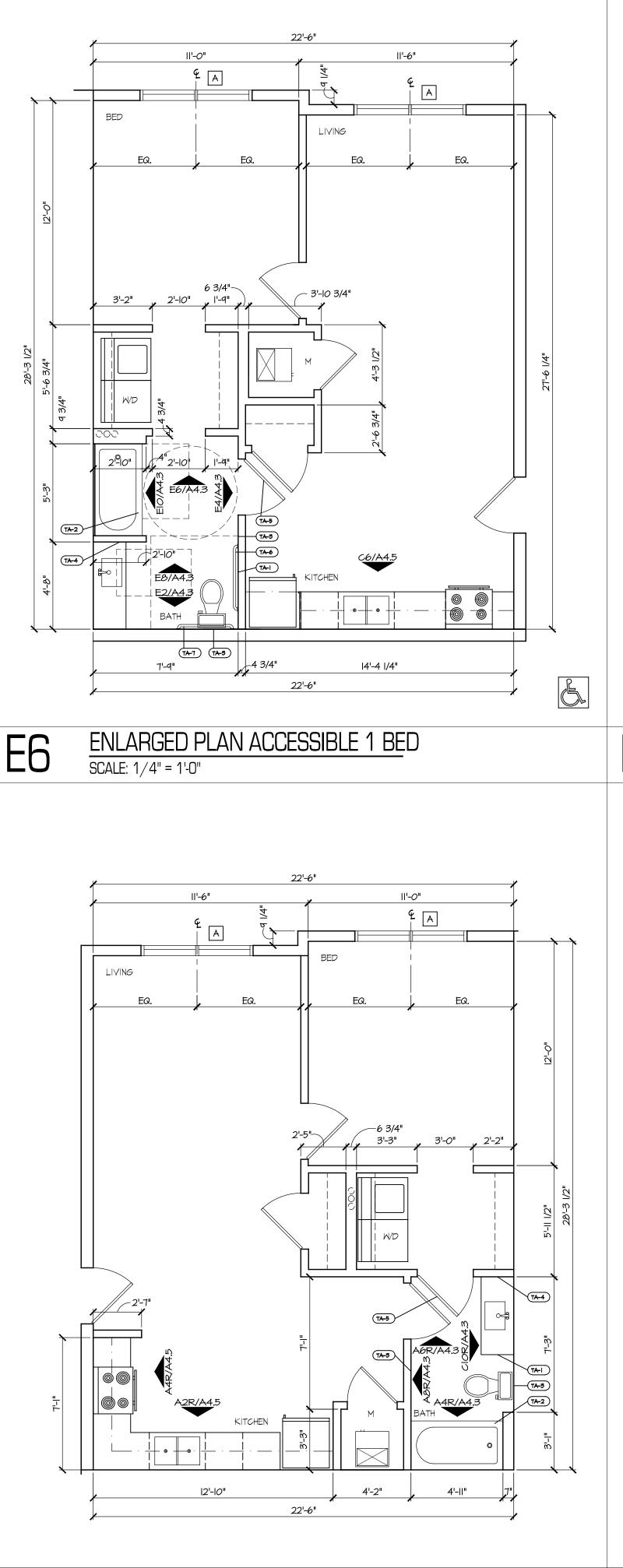
ISSUE DATE: 02.04.2019 **REVISIONS:**





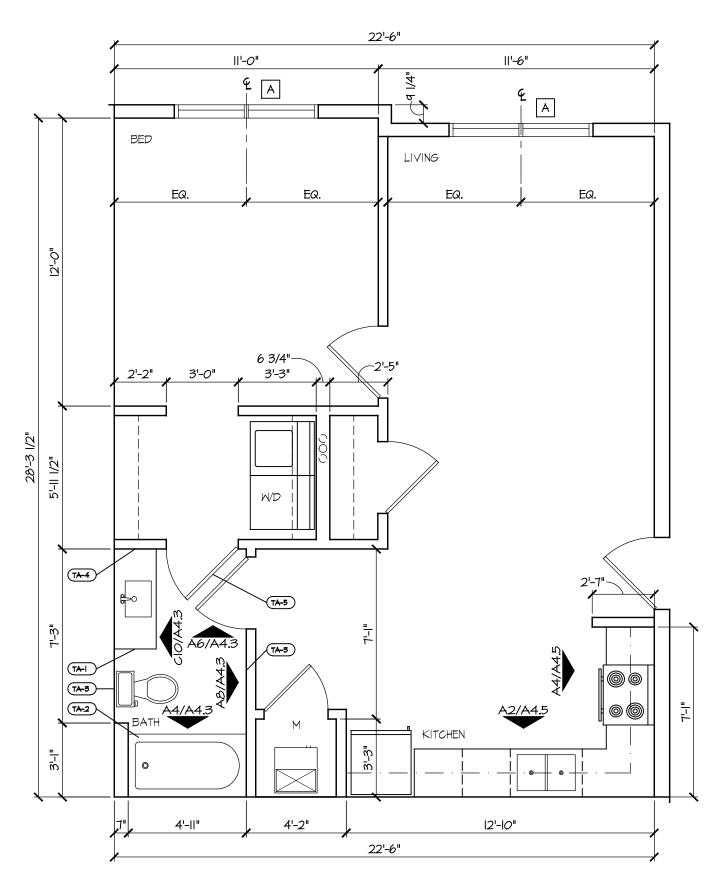
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€ A BED EQ. EQ. 6 3/4"— 3'-3" 3'-0" (TA-4) (TA-I) (TA-3)-(TA-2) A4/A4.3 KITCHEN -4 3/4" 4'-||" 22'-6" E3 ENLARGED UNIT PLAN (1 BED MOD.) SCALE: 1/4" = 1'-0"

||**'-**0"



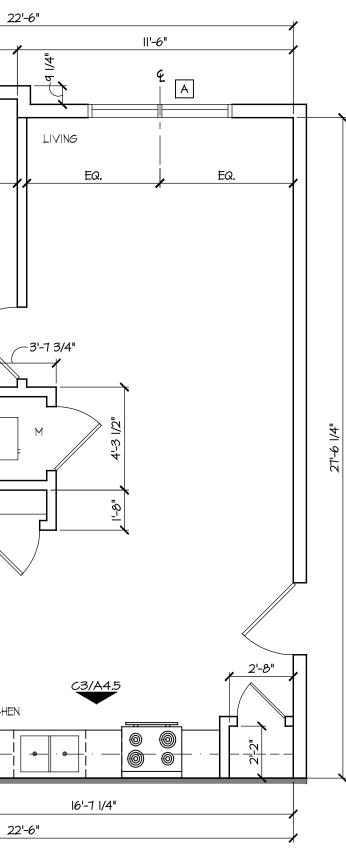


ENLARGED UNIT PLAN (1 BED) SCALE: 1/4" = 1'-0"

ENLARGED UNIT PLAN (1 BED REV.) SCALE: 1/4" = 1'-0"

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KEY NOTES

- MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
 WOOD CABINETS. RE: GENERAL NOTES.
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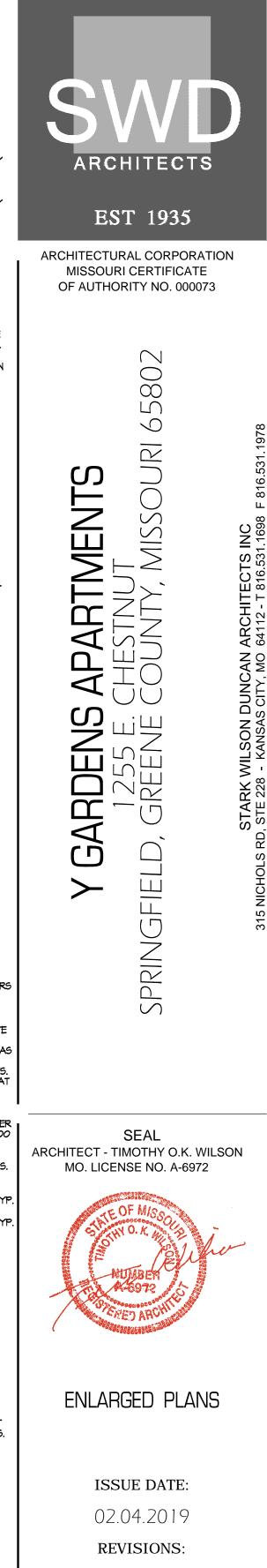
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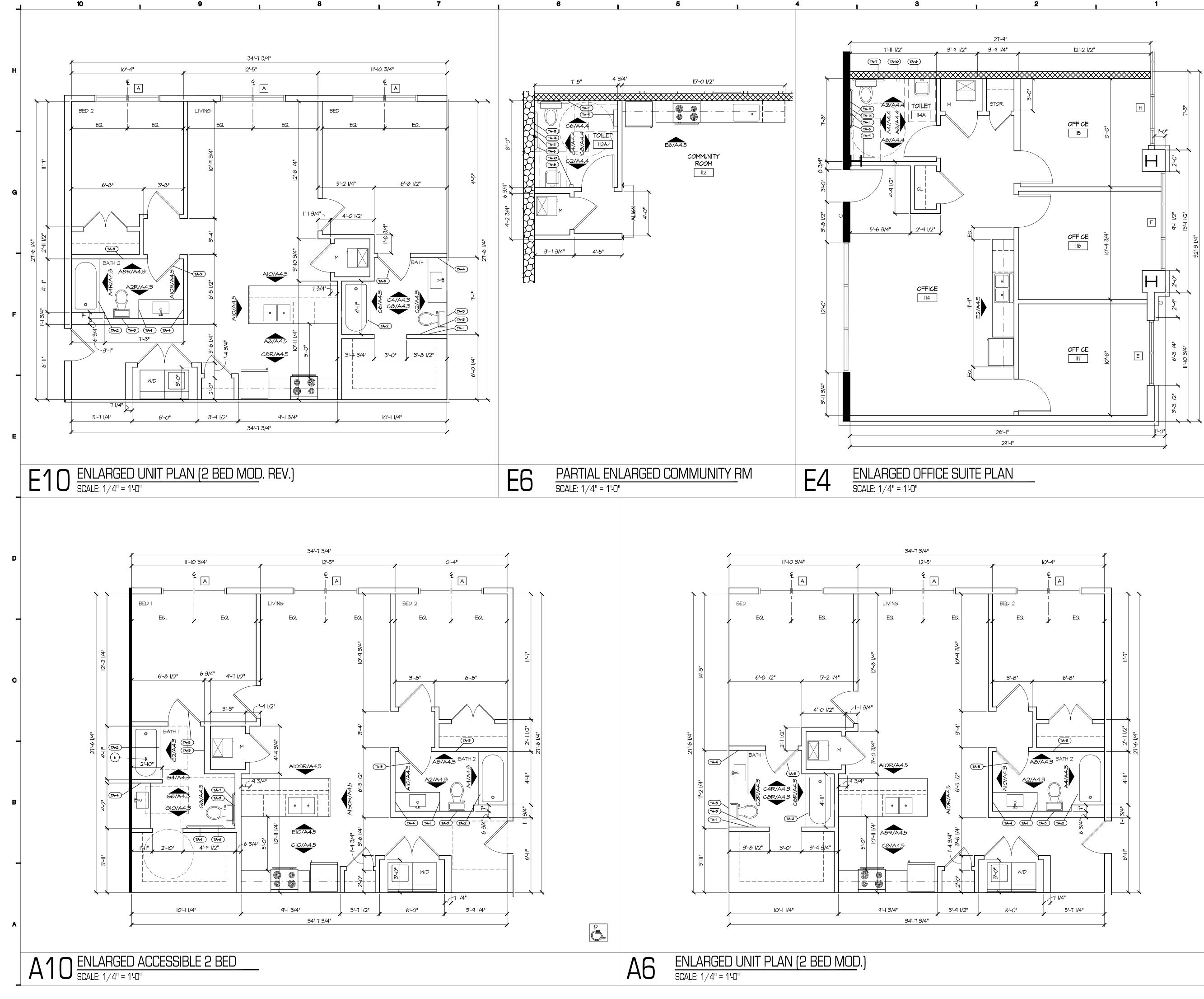
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APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.



PROJECT NO.: 1817





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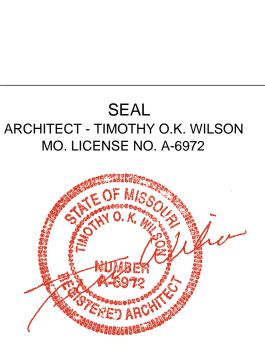
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ENLARGED PLANS

ISSUE DATE: 02.04.2019

REVISIONS:

PROJECT NO.: 1817





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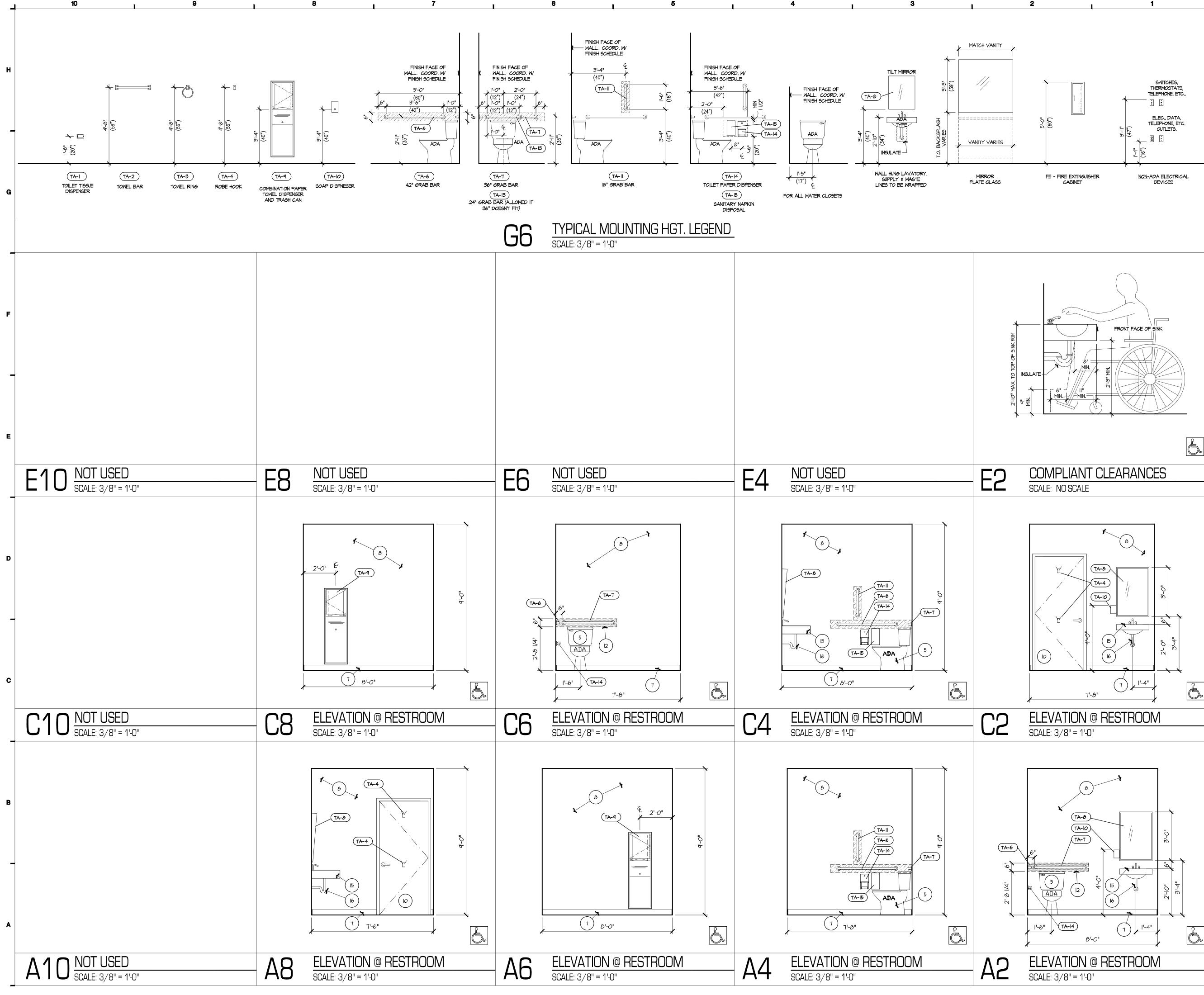
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INTERIOR ELEVATIONS

ISSUE DATE: 02.04.2019 **REVISIONS:**



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- BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC...
- ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC ..
- CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

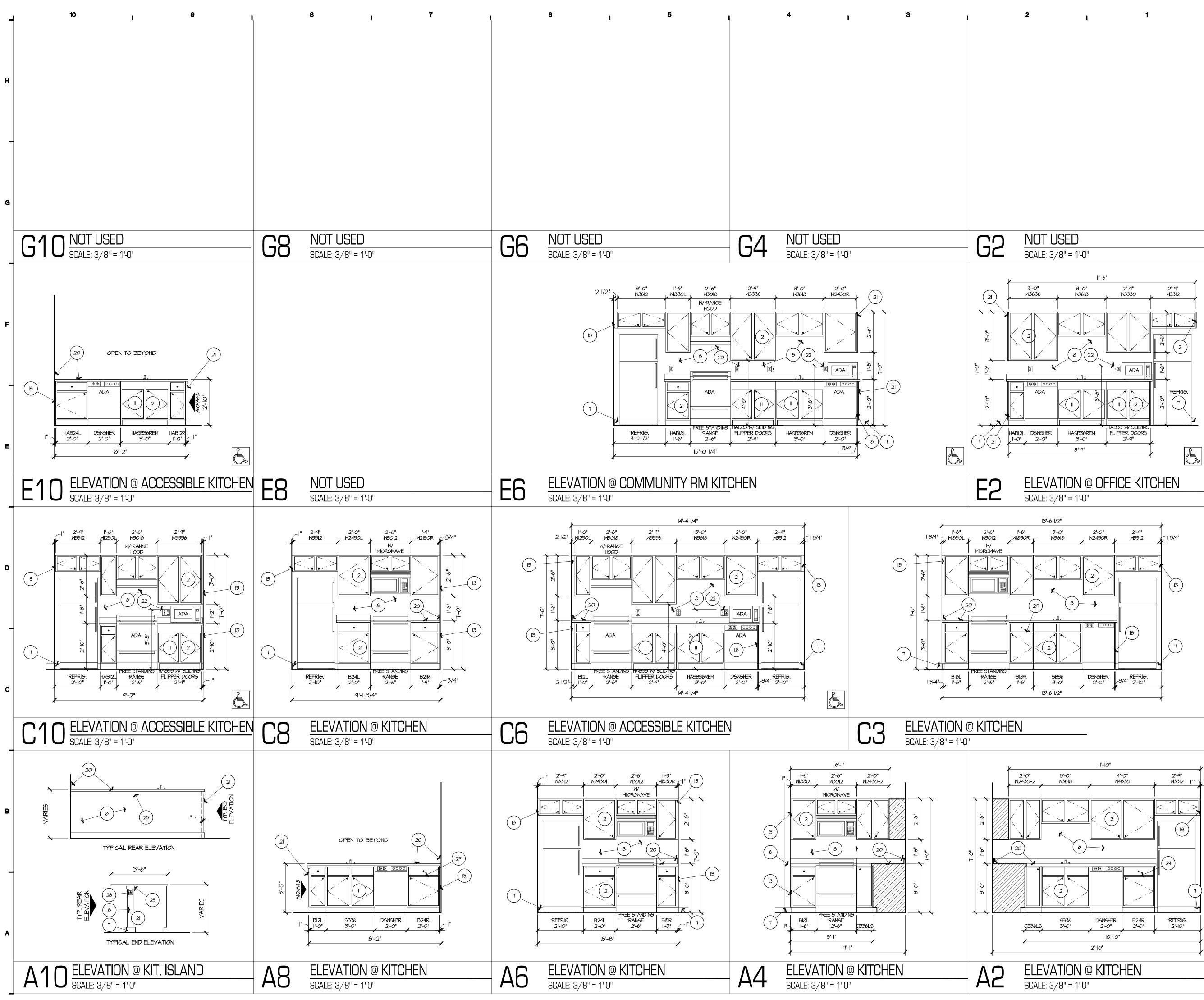
TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X MOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO 62/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION. TA-I TOILET TISSUE DISPENSER (ta-2) CURVED SHOWER CURTIAN ROD (ta-3) .24" TOWEL BAR (TA-4 HAND TOWEL RING (TA-5) ROBE HOOK 42" GRAB BAR (ta-6) (TA-7) 36" GRAB BAR TILT MIRROR - SURFACE MOUNT TA-8 BOBRICK COMBINATION TRASH AND PAPER TOWEL DISPENSER (TA-9) (TA-10) SOAP DISPENSER (ta-ii) 18" VERTICAL GRAB BAR MOP AND BROOM HOLDER INSTALL AT JANITOR'S SINK ______ (ta-13) .24" GRAB BAR TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888 TA-14 SANITARY NAPKIN DISPOSAL (TA-15) SURFACE MOUNT BOBRICK B-270 2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.







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KEY NOTES

- MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300. . WOOD CABINETS. RE: GENERAL NOTES.
- 5. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS. 4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
- 5. I PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE B' MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION,
- ICC ANSI AII7.I-2009 COMPLIANT. RE: PLUMBING. I PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI AII7.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
- . BASE PER FINISH SCHEDULE.
- 8. GYPSUM BOARD WALL CONSTRUCTION. PAINT. 9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE. 10. DOOR PER SCHEDULE.
- II. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING. 12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI AIIT.I-2009. TYPICAL.
- 13. FILLER PIECE. MATCH CABINET STYLE. 14. ADA WALL MOUNTED SINK. RE: PLUMBING
- 15. INSULATE ALL EXPOSED PIPING. 16. ADA WATER FOUNTAIN. RE: PLUMBING. 7. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE:
- PLUMBING. 18. DISHWASHER END PANEL. MATCH CABINET STYLE.
- 19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL. 20.1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13. 21. CABINET END PANEL.
- 22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-8" AFF. RE: ELEC. PLANS.
- 23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE. 24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
- 25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT. 26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
- 27. ADA SHOWER CONTROL & HAND SHOWER, HAND SHOWER TO HAVE MIN 59" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING
- 28. REMOVABLE BASE END SUPPORT TO BE ANGLED SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.

29. UNIVERSAL DESIGN FEATURE. CUSTOM PULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

- A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE \$ INSTALL I HAND TOWEL RING (6" DIA), I ROBE HOOK, I TOILET PAPER DISPENSER, SHOWER ROD, \$ 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
- CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. PULLS BY AMEROCK CORP., PULL STYLE BP52995GIO. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS A NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL
- MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.
- COORDINATE CABINETRY WITH APPLIANCES FOR PROPOER CLEARANCES, OPERATION, ETC... RE: SPEC SECTION 113100 FOR APPLIANCE INFORMATION. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
- PROVIDE FINISHED SURFACES ON CABINETS \$ COUNTERTOPS WHERE EXPOSED TO VIEW. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYF
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APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.





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SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972

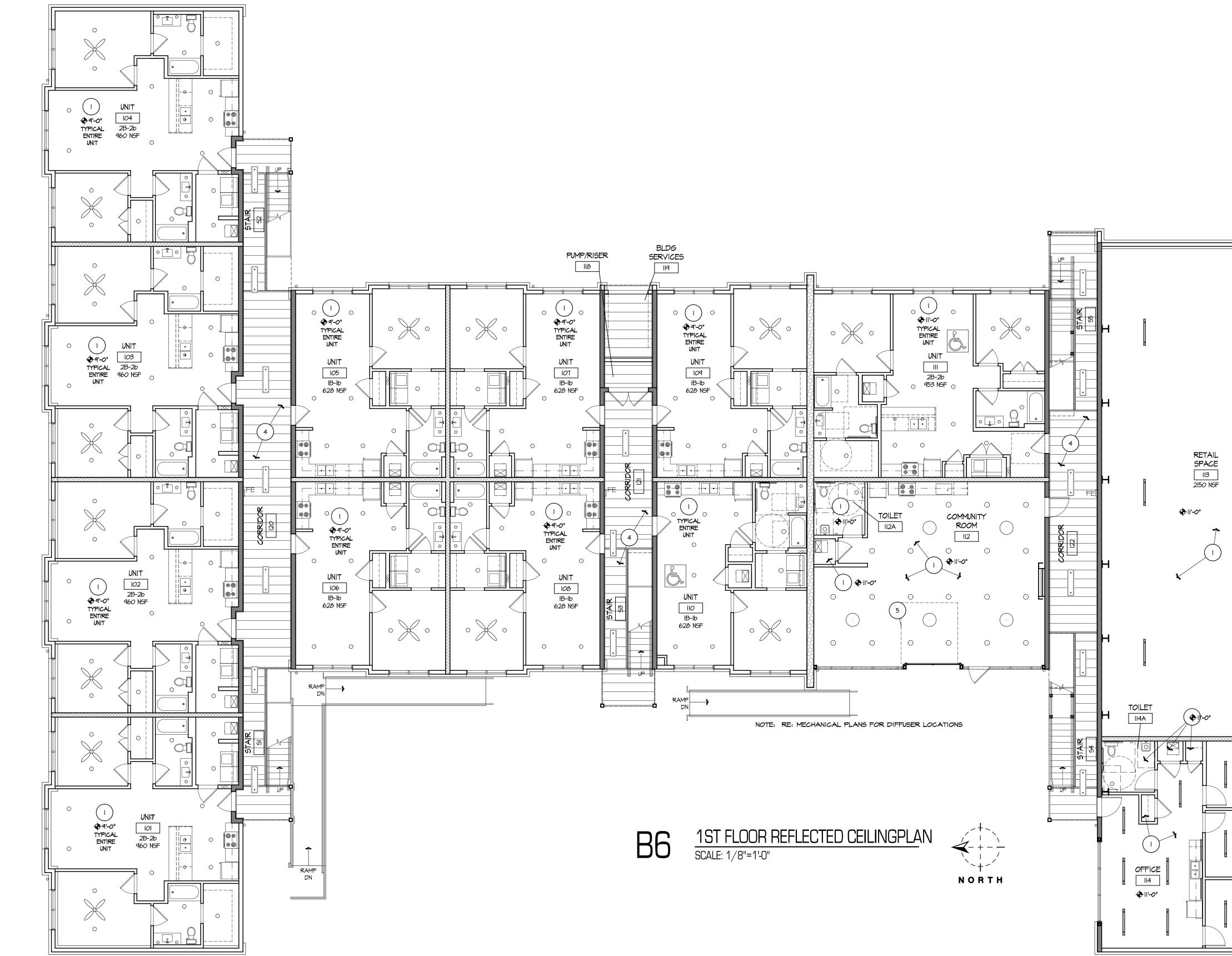


INTERIOR **ELEVATIONS**

ISSUE DATE: 02.04.2019 **REVISIONS:**

PROJECT NO.: 1817





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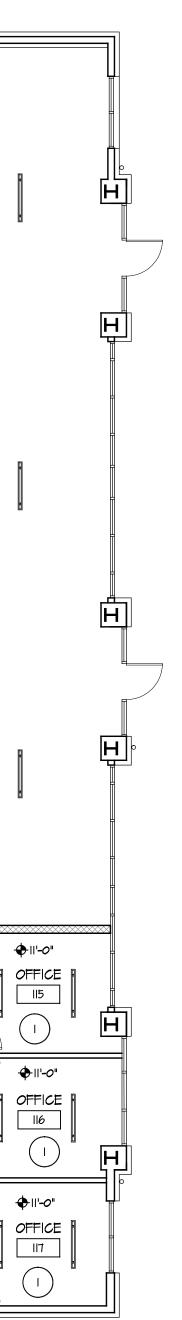
KEY NOTES

- 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF WOOD TRUSS FRAMING. I HOUR ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS.
- 2. CEMENT BOARD SOFFIT. PAINT. 074646
- 3. GYP, BD, HEADER. PAINT. 4. OPEN DECK FRAMING. RE: STRUCTURAL
- 5. OVERHEAD DOOR AND TRACKS THIS AREA. PROVIDE WOOD BLOCKING AS NECESSARY FOR TRACK SUPPORT.



EST 1935

ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



CEILING PLAN GENERAL NOTES

- A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY AND LIFE SAFETY CODES AND REQUIREMENTS.
- B. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, ETC...
- C. REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
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- E. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.
- F. ALL PLUMBING PIPING AND ELECTRICAL CONDUIT IS TO BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS NOTED OTHERWISE. IF PIPING OR DUCTWORK IS SHOWN TO BE EXPOSED REMOVE ALL LABELS AND MARKINGS. RE: MEP DRAWINGS.
- G. ALL AIR CONDITIONING REFRIGERANT LINES SHALL BE ROUTED AND CONCEALED IN WALLS AND CEILINGS. TYPICAL
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- I. REFER TO AV DRAWINGS FOR ADDITIONAL LOW VOLTAGE DEVICE LOCATIONS.



STARK WILSON DUNCAN ARCHITECTS INC 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 8

SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972

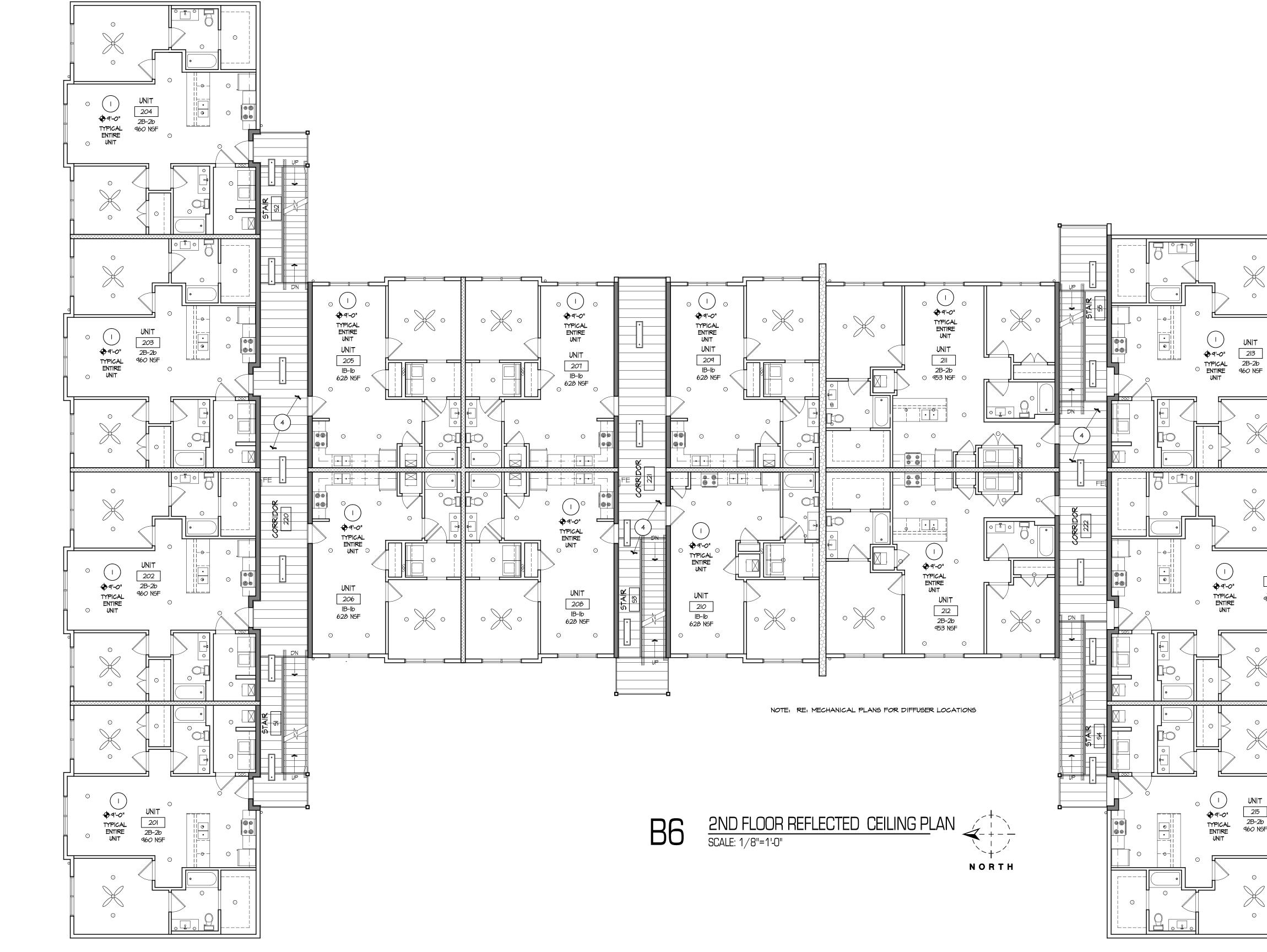


1ST FLOOR REFLECTED CEILING PLAN

ISSUE DATE:

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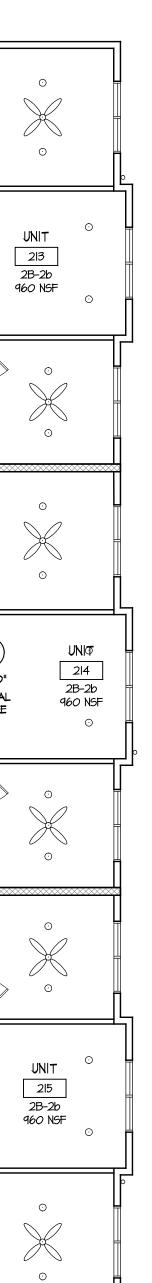
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- 2. CEMENT BOARD SOFFIT. PAINT. 074646
- 3. GYP, BD, HEADER. PAINT. 4. OPEN DECK FRAMING. RE: STRUCTURAL
- 5. OVERHEAD DOOR AND TRACKS THIS AREA. PROVIDE WOOD BLOCKING AS NECESSARY FOR TRACK SUPPORT.



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SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972



2ND FLOOR REFLECTED CEILING PLAN

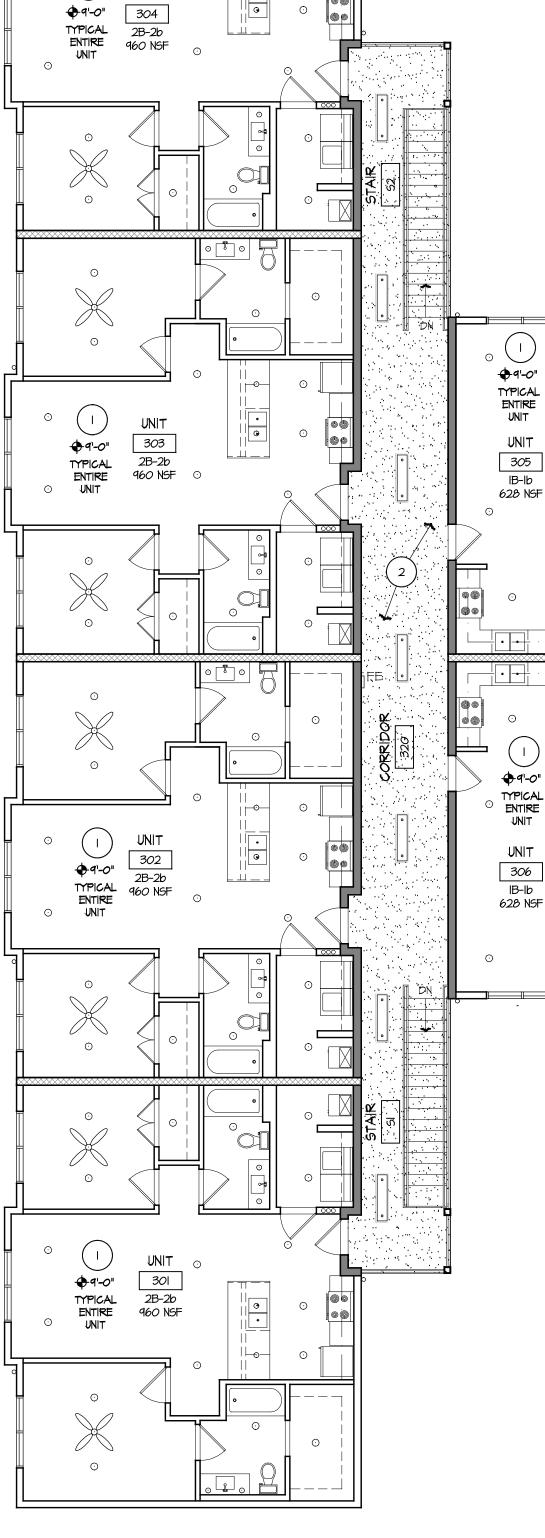
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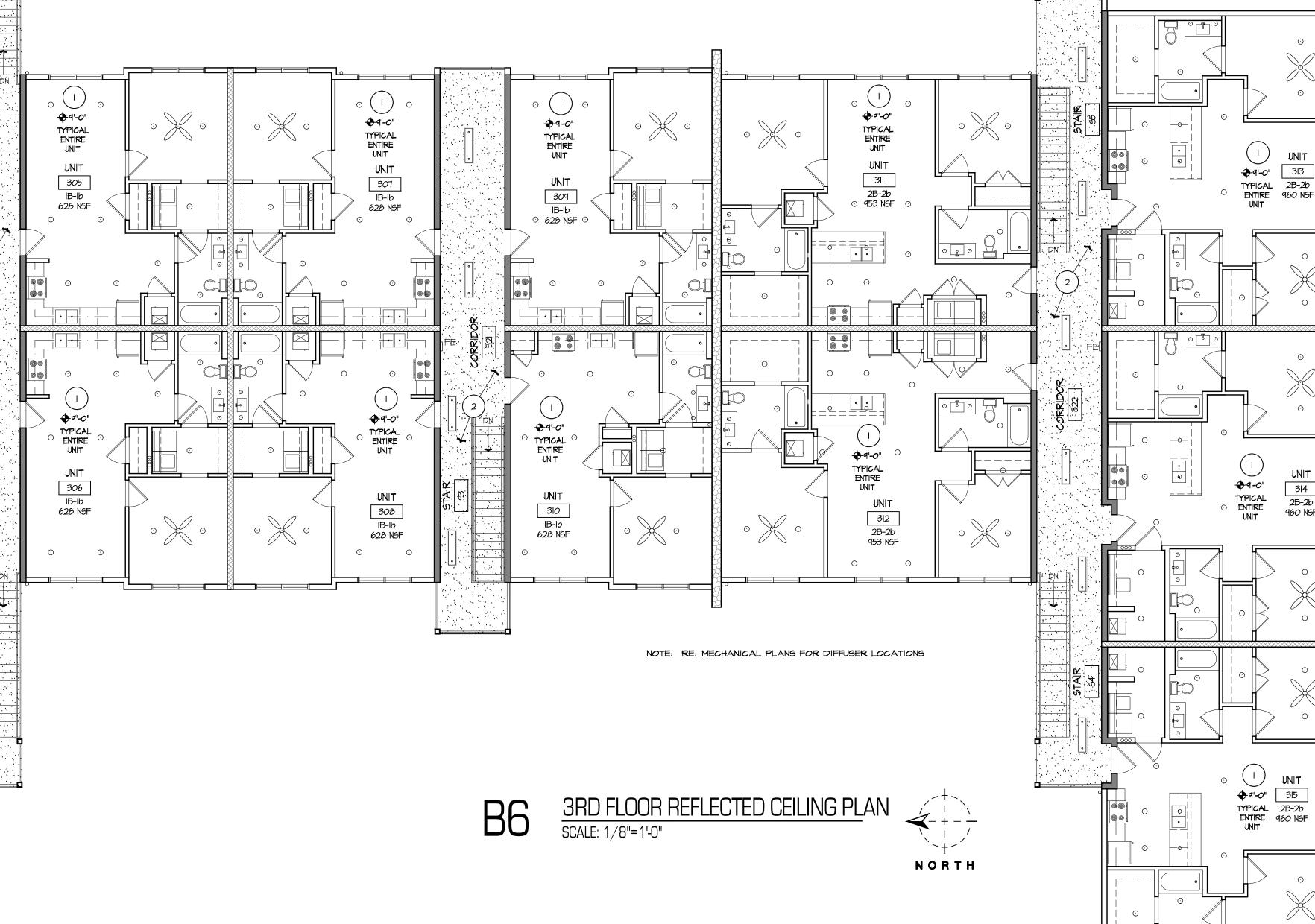
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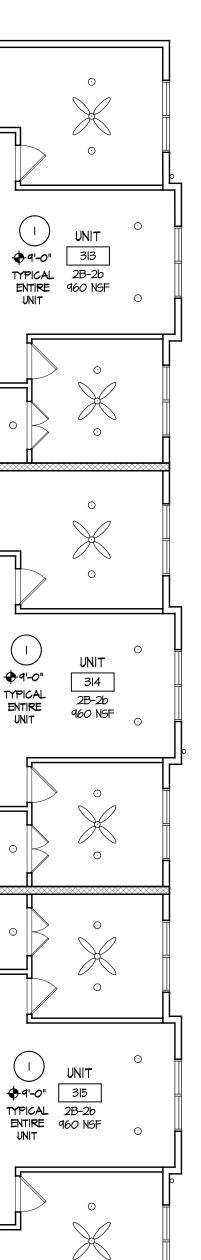
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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972



3RD FLOOR REFLECTED CEILING PLAN

ISSUE DATE:

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103-3	3'-0" × 6'-8" × 3/8"	HCM B	-	c	ND	A 62/A3.6 62/A3		201-7	2'-0" × 6'-8" × 3/8" DBL	нсм	В	-	D	WD	в 62	2/A 3.6	62/A3.6 -	2 4-	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
- 103-4 103-5		HCM B HCM B	-	с с	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		202-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A 64	4/A3.6	64/A3.6 66/A3.6	2 4-2 _2 4-3	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	HCL HCM	с - в -	B	WD WD	A A	62/A
103-6	3'-0" × 6'-8" × 3/8"	нсм в	-	c	ND	A 62/A3.6 62/A3		202-2	3'-0" × 6'-8" × 3/8"	HCL	c	-	в	ND				2 4-4	3'-0" × 6'-8" × 3/8"	нсм	в -	c	WD	A	62/A
103-7	2'-0" X 6'-8" X 3/8" DBL	HCM B	-	D	ND	B 62/A3.6 62/A3	- 6	202-3	3'-0" × 6'-8" × 1 3/8" 3'-0" × 6'-8" × 1 3/8"	нсм нсм	BB	-	с с	ND ND		2/A3.6 2/A3.6		2 4-5 2 4-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B - B -	د د	WD WD	A 	62/A 62/A
104-1	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	НМ	A 64/A3.6 64/A3	.6 <i>G</i> 6/A3.6	202-5	3'-0" × 6'-8" × 3/8"	нсм	в	-	c	WD		2/A3.6		2 4-6	2'-0" X 6'-3" X 3/3" DBL	нсм	в -	D	WD	В	62/A
104-2 F 104-3		HCL C HCM B	-	B	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		202-6 202-7	3'-0" × 6'-8" × 3/8" 2'-0" × 6'-8" × 3/8" DBL	нсм нсм	BB	-	C D	ND ND		2/A 3.6	62/A3.6 - 62/A3.6 -	215-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	Δ	HM		64/A
F 104-3		HCM B	-	۰ د	ND	A 62/A3.6 62/A3								10		2/10.0		215-2	3'-0" X 6'-8" X 3/8"	HCL	A OO Print. C -	В	WD	<u>A</u>	62/A
104-5		HCM B	-	د د	WD	A 62/A3.6 62/A3		203-1	3'-0" X 7'-0" X 3/4"	HMI		60 MIN.	A	HM			64/A3.6 66/A3.6	215-3	3'-0" X 6'-8" X 3/8"	нсм	B -	C	WD	A	62/A
104-6 104-7		нсм в	-	ם כ	ND ND	A 62/A3.6 62/A3 B 62/A3.6 62/A3		203-2 203-3	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	С В	-	Б С	ND ND		2/A3.6 2/A3.6		215-4 215-5	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B -	с с		A	62/A 62/A
								203-4	3'-0" × 6'-8" × 3/8"	НСМ	В	-	0	ND		2/A 3.6		2 5-6	3'-0" × 6'-8" × 3/8"	нсм	в -	د	WD	A	62/A
- 105-1 105-2	3'-0" X 7'-0" X 3/4" 3'-0" X 6'-8" X 3/8"	HMI A HCL C	60 MIN. -	B	HM WD	A 64/A3.6 64/A3 A 62/A3.6 62/A3		203-5	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	с с	ND ND		2/A3.6 2/A3.6		_2 5-7	2'-0" X 6'-8" X 3/8" DBL	нсм	B -		WD	B	62/A
105-3		нсм в	-	c	ND	A 62/A3.6 62/A3		203-7	2'-0" × 6'-8" × 3/8" DBL	нсм	в	-	D	ND	в 62	2/A 3.6	62/A3.6 -								<u> </u>
105-4		нсм в	-	B C	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		204-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A 64	4/A3.6	64/A3.6 66/A3.6	30 -	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
105-6		HCM B	-	B	WD	A 62/A3.6 62/A3		204-2	3'-0" × 6'-8" × 3/8"	HCL	C	-	В	WD		2/A 3.6		301-2	3'-0" × 6'-8" × 3/8"	HCL	C -	В	WD	A	62/A
E 106-1	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.		HM	A 64/A3.6 64/A3	6 66/436	204-3 204-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	с с	ND ND		2/A3.6 2/A3.6		301-3 301-4	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	нсм нсм	B -	с с		A 	62/A
106-2		HCL C	-	В	ND	A 62/A3.6 62/A3		204-5	3'-0" X 6'-8" X 3/8"	нсм	В	-	с с	ND		2/A3.6		301-5	3'-0" × 6'-8" × 1 3/8"	нсм	B -	ۍ د	WD	A	62/A
106-3		нсм в	-	С В	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		204-6	3'-0" × 6'-8" × 3/8" 2'-0" × 6'-8" × 3/8" DBL	нсм нсм	BB	-	C D	MD MD		2/A3.6	62/A3.6 - 62/A3.6 -	301-6 301-7	3'-0" X 6'-8" X 3/8" 2'-0" X 6'-8" X 3/8" DBL	нсм нсм	B - B -	с д		A	62/A
106-5		HCM B	-	с С	WD	A 62/A3.6 62/A3						-		ND		2/70.0		301-1							
106-6	3'-0" × 6'-8" × 3/8"	HCM B	-	В	ND	A 62/A3.6 62/A3	.6 -	205-1	3'-0" X 7'-0" X 3/4"	HMI		60 MIN.	A	HM			64/A3.6 66/A3.6	302-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
- 107-1	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	НМ	A 64/A3.6 64/A3	.6 <i>6</i> 6/A3.6	2 <i>0</i> 5-2 2 <i>0</i> 5-3	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	С В	-	в С	ND ND		2/A3.6 2/A3.6		302-2 302-3	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	HCL HCM	B -	в С		A	62/A 62/A
107-2		HCL C	-	В	ND	A 62/A3.6 62/A3		205-4	3'-0" × 6'-8" × 3/8"	нсм	в	-	в	WD				302-4	3'-0" × 6'-8" × 3/8"	нсм	в -	c	WD	A	62/A
107-3 107-4		НСМ В НСМ В	-	B	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		205-5 205-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	с в	ND ND		2/A3.6 2/A3.6	62/A3.6 - 62/A3.6 -	302-5 302-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B - B -	с с	WD WD	A A	62/A 62/A
107-5	3'-0" × 6'-8" × 3/8"	нсм в	-	c	ND	A 62/A3.6 62/A3												302-7	2'-0" X 6'-8" X 3/8" DBL	нсм	в -	D	WD	В	62/A
D 107-6	3'-0" × 6'-8" × 3/8"	HCM B	-	B	ND	A 62/A3.6 62/A3	.6 -	206-1	3'-0" X 7'-0" X 3/4" 3'-0" X 6'-8" X 3/8"	HMI HCL	A C	60 MIN. -	A B	HM MD		4/A3.6 2/A3.6		303-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
108-1	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	НМ	A 64/A3.6 64/A3	.6 <i>G</i> 6/A3.6		3'-0" × 6'-8" × 3/8"	НСМ	B	-	с С	WD				303-2	3'-0" X 6'-8" X 3/8"	HCL	с -	В	WD	A	62/A
108-2		HCL C HCM B	-	B	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		206-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	B	ND ND		2/A3.6 2/A3.6		303-3 303-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B -	د د	WD WD	A 	62/A
108-4		HCM B	-	B	WD	A 62/A3.6 62/A3		206-6	3'-0" × 6'-8" × 3/8"	НСМ	B	-	в	WD			62/A3.6 -	303-5	3'-0" × 6'-8" × 1 3/8"	нсм	В -	с С	WD	A	62/A
108-5 108-6		нсм в	-	С В	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		207-1	3'-0" X 7'-0" X 3/4"	HMI	•	60 MIN.	•	HM		1/436	G4/A3.6 G6/A3.6	303-6 303-7	3'-0" X 6'-8" X 3/8" 2'-0" X 6'-8" X 3/8" DBL	нсм нсм	B -	с д		A	62/A
	5-0 × 0-0 × 1 5/0		-				-	201-2	3'-0" × 6'-8" × 3/8"	HCL	А С	-	В	WD		2/A3.6		505-1	2-0 × 0-0 × 15/0 DBL	HOM	<u>в</u> -		nu		02/7
109-1	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	HM	A 64/A3.6 64/A3			3'-0" X 6'-8" X 3/8"	HCM	В	-	с Р	MD				304-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
109-2 109-3		HCL C HCM B	-	в С	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		201-4 201-5	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	B C	ND ND		2/A3.6 2/A3.6		304-2 304-3	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	B -	B C	WD WD	A	62/A 62/A
109-4		HCM B	-	В	ND	A 62/A3.6 62/A3		201-6	3'-0" × 6'-8" × 3/8"	нсм	В	-	в	ND	A 63	2/A 3.6	62/A3.6 -	304-4	3'-0" × 6'-8" × 3/8"	нсм	в -	0	WD	A	62/A
C 109-5		HCM B HCM B	-	с В	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		208-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A 64	4/A3.6	64/A3.6 66/A3.6	304-5 304-6	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	нсм нсм	в -	с с		A A	62/A 62/A
								208-2	3'-0" × 6'-8" × 3/8"	HCL	<u>د</u>	-	В	MD				304-7	2'-0" X 6'-8" X 3/8" DBL	нсм	в -	D	WD	В	62/A
0- 0-2	3'-0" X 7'-0" X 3/4" 3'-0" X 6'-8" X 3/8"	HMI A HCL C	60 MIN. -	B	HM MD	A G4/A3.6 G4/A3 A G2/A3.6 G2/A3		208-3 208-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	с В	ND ND		2/A3.6 2/A3.6		305-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
110-3	3'-0" × 6'-8" × 3/8"	HCM B	-	c	ND	A 62/A3.6 62/A3		208-5	3'-0" × 6'-8" × 3/8"	нсм	в	-	c	MD		2/A3.6		305-2	3'-0" × 6'-8" × 3/8"	HCL	с -	В	WD	A	62/A
– 110-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCM B HCM B	-	۲ ۲	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		208-6	3'-0" × 6'-8" × 3/8"	НСМ	B	-	в	ND	A 62	2/A3.6	62/A3.6 -	305-3 305-4	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	в - в -	С В	MD MD	A A	62/A
								209-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM				305-5	3'-0" × 6'-8" × 3/8"	нсм	в -	c	WD	A	62/A
-	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	НМ	A 64/A3.6 64/A3	.6 G6/A3 6	209-2	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	C B	-	B C	ND ND		2/A3.6 2/A3.6		305-6	3'-0" X 6'-8" X 3/8"	нсм	B -	B	WD	<u> </u>	62/A
-2	3'-0" X 6'-8" X 3/8" DBL	HCL C	-	D	ND	B 62/A3.6 62/A3		209-4	3'-0" × 6'-8" × 3/8"	НСМ	B	-	В	WD		2/A3.6		306-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
-3	2'-6" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCM B HCL C	-	B	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		209-5	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B	-	с в	MD MD			62/A3.6 - 62/A3.6 -	306-2 306-3	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	с - в -	B	WD WD	A 	62/A
B -5	3'-0" × 6'-8" × 1 3/8"	HCM B	-	с С	ND	A 62/A3.6 62/A3								10				306-4	3'-0" × 6'-8" × 1 3/8"	нсм	B -	В	WD	A	62/A
-6 -7	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм в	-	B	ND ND	A 62/A3.6 62/A3 A 62/A3.6 62/A3		210-1 210-2	3'-0" × 7'-0" × 3/4" 3'-0" × 6'-8" × 3/8"	HMI HCL	A C	60 MIN.	A	HM MD			64/A3.6 66/A3.6 62/A3.6 -	306-5	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	нсм нсм	B - B -	C B	WD WD	A	62/A
-8	3'-0" X 6'-8" X 3/8"	HCM B	-	۰ د	ND	A 62/A3.6 62/A3		210-3	3'-0" X 6'-8" X 3/8"	НСМ	В	-	с С	ND											
-4	2'-0" X 6'-8" X 3/8" DBL	НСМ В	-	D	ND	B 62/A3.6 62/A3	.6 -	210-4	2'-6" X 6'-8" X 3/8"	НСМ	B	-	B	MD			62/A3.6 -	307-1	3'-0" X 7'-0" X 3/4"	HMI	A 60 MIN.	A	HM	A	64/A
- 2-	3'-0" X 7'-0" X 3/4"	HMI A	60 MIN.	A	НМ	A 64/A3.6 64/A3	.6 <i>G</i> 6/A3.6	210-5 210-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	C B	ND ND			62/A3.6 - 62/A3.6 -	307-2 307-3	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCL HCM	с - В -	B C	WD WD	A	62/A
112-2	3'-0" × 8'-0" × 3/8"	HCL C	-	В	ND	A 62/A3.6 62/A3	.6 -	8'-0" TALL DOOR 210-7	2'-0" × 6'-8" × 3/8"	НСМ	В	-	В	WD			62/A3.6 -	307-4	3'-0" × 6'-8" × 3/8"	нсм	B -	В	WD	A	62/A
2-3 2-4	8'-0" W X 9'-0" H 3'-0" X 7'-0" X 3/4"	OHA E	-	- 6	- ALUM	- E2/A3.6 E4/A3 C 68/A3.6 68/A3		OVERHEAD DOOR 211-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A 64	4/A3.6	64/A3.6 66/A3.6	307-5 307-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	B - B -	C B	WD WD	A	62/A
112A-1		HCM B	-	C	ND	A 62/A3.6 62/A3		211-2	3'-0" X 6'-8" X 3/8" DBL	HCL	с С	-	D	ND	в 62	2/A3.6	62/A3.6 -								
▲ 3-	3'-0" X 7'-0" X 3/4"	ALUM D		6	ALUM	C 68/A3.6 68/A3	6 GIO/A3 6	211-3	2'-6" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	HCM HCL	B	-	B B	ND ND			62/A3.6 - 62/A3.6 -	308-1 308-2	3'-0" X 7'-0" X 3/4" 3'-0" X 6'-8" X 3/8"	HMI HCL	A 60 MIN.	A B	HM WD	A 	64/A 62/A
A 3-2	3'-0" X 7'-0" X 3/4"	ALUM D		6	ALUM	C GB/A3.6 GB/A3			3'-0" × 6'-8" × 3/8"	HCM	B	-	C	ND	A 62	2/A3.6	62/A3.6 -	308-3	3'-0" X 6'-8" X 3/8"	нсм	B -	с С	WD	A	62/A
								211-6	3'-0" × 6'-8" × 3/8" 3'-0" × 6'-8" × 3/8"	нсм нсм	BB	-	B C	ND ND			62/A3.6 - 62/A3.6 -	308-4 308-5	3'-0" X 6'-8" X 3/8" 3'-0" X 6'-8" X 3/8"	нсм нсм	в -	B	WD WD	A 	62/A
								211-7	3'-0" × 6'-8" × 3/8"	нсм	В	-	с с	ND	A 62	2/A3.6	62/A3.6 -	308-6	3'-0" X 6'-8" X 3/8"	нсм	B -	В	WD	A	62/A
								211-9	2'-0" X 6'-8" X 3/8" DBL	НСМ	В	-	D	МÐ	B 62	2/A3.6	62/A3.6 -								

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	.		
IFORMATIC			
HEAD	JAMB	SILL	REMARKS
64/A3.6	64/A3.6	66/A3.6	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6		-	
62/A3.6		-	
62/A3.6		-	
62/A3.6 62/A3.6		-	
02/70.0			
64/A3.6	64/A3.6	66/A3.6	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6		-	
62/A3.6		-	
62/A3.6	62/A3.6	-	
64/A3.6	64/A3.6	66/A3.6	
62/A3.6		-	
62/A3.6	62/A3.6	-	
CALLON	CALLOS	CLINDA	
64/A3.6 62/A3.6		66/A3.6 -	
62/A3.6		-	
62/A3.6		-	
62/A3.6		-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
C1/136	C1/136	C6/136	
64/A3.6 62/A3.6		66/A3.6 -	
G2/A3.6		_	
62/A3.6		-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
64/A3.6		66/A3.6	
62/A3.6 62/A3.6		-	
62/A3.6		_	
62/A3.6		_	
G2/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
64/A3.6	64/A3.6	66/A3.6	
62/A3.6		-	
62/A3.6		-	
62/A3.6 62/A3.6		-	
62/A3.6		-	
62/A3.6		-	
64/A3.6	64/A3.6	66/A3.6	
62/A3.6		-	
62/A3.6		-	
62/A3.6		-	
62/A3.6	-	-	
62/A3.6		-	
64/A3.6	64/A3.6	66/A3.6	
62/A3.6		-	
62/A3.6		-	
62/A3.6 62/A3.6		-	
62/A3.6 62/A3.6		-	
64/A3.6	64/A3.6	G6/A3.6	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
G2/A3.6		-	
62/A3.6		-	
62/A3.6	62/A3.6	-	
64/A3.6	64/A3.6	G6/A3.6	
62/A3.6			
62/A3.6		-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
62/A3.6	62/A3.6	-	
64/A3.6	-	66/A3.6	
62/A3.6		-	
62/A3.6 62/A3.6		-	
62/A3.6		-	
62/A3.6	-	_	

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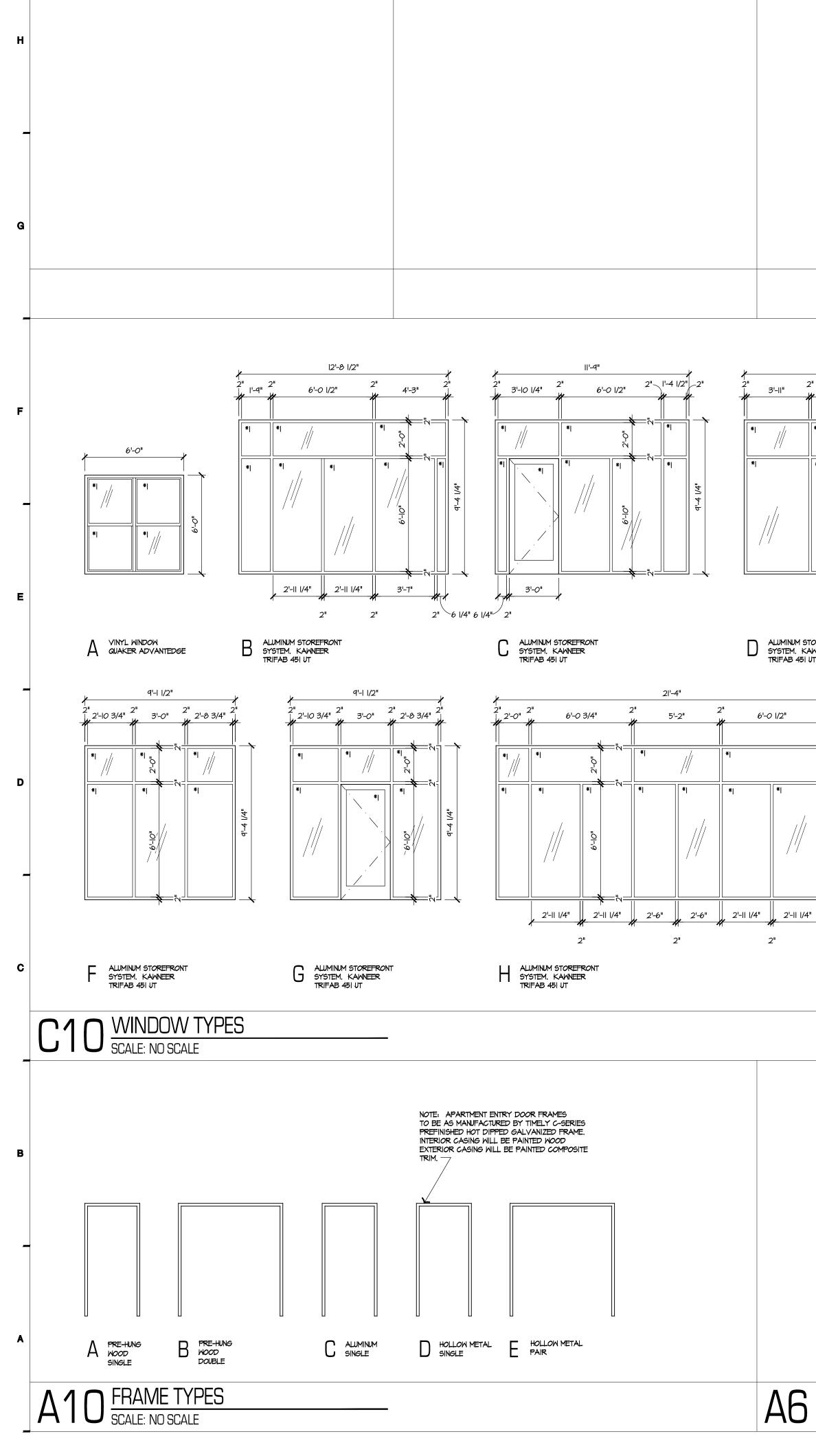


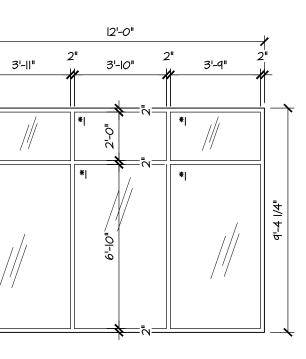


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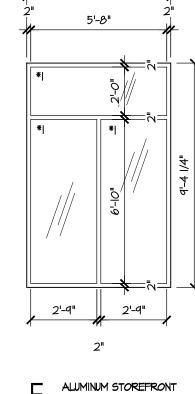
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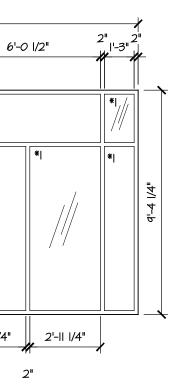
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6'-0"

5

ALUMINUM STOREFRONT SYSTEM, KAWNEER TRIFAB 451 UT



GLAZING	

SYSTEM. KAWNEER

TRIFAB 451 JT

*I CLEAR INSULATED LOW-E SAFETY GLAZING NOTE: PROVIDE FIRE RATED & SAFETY GLAZING WHERE REQUIRED

GENERAL NOTES

BY CODE.

A. ALL SECOND & THIRD FLOOR OPERABLE WINDOWS TO HAVE OPENING CONTROL DEVICES. COLOR TO MATCH WINDOW. CONTROL DEVICE SHALL ALLOW WINDOW TO OPENING FULLY.

	DR SCHEDULE	TION									
NO.	DOOR INFORMA SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT.	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME IN	IFORMATION HEAD	JAMB	SILL	REMARKS
309-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	 A	HM	A	64/A3.6	64/A3.6	G6/A3.6	
309-2	3'-0" X 6'-8" X 3/8"	HCL	c	-	в	WD	A	62/A3.6	62/A3.6	-	
309-3	3'-0" X 6'-8" X 3/8"	нсм	в	_	<u>۔</u> د	WD	A	62/A3.6	62/A3.6	_	
309-4	3'-0" X 6'-8" X 3/8"	нсм	в	_	в	WD	A	62/A3.6	62/A3.6	_	
309-5	3'-0" X 6'-8" X 3/8"	нсм	В	-	<u>د</u>	WD	A	62/A3.6	62/A3.6	_	
309-6	3'-0" X 6'-8" X 3/8"	нсм	В	-	в	WD	A	62/A3.6	62// 6.0	_	
								0_,/ 0.0	0.2,7 0.0		
310-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	НМ	A	64/A3.6	64/A3.6	66/A3.6	
3 0-2	3'-0" X 6'-8" X 3/8"	HCL	c	-	в	WD	A	62/A3.6	62/A3.6	-	
310-3	3'-0" X 6'-8" X 3/8"	HCM	в	_	<u>د</u>	WD	A	62/A3.6	62/A3.6	_	
310-3	2'-6" × 6'-8" × 3/8"	нсм	В	-	в	WD	A	62/A3.6	62/A3.6	_	
310-5	3'-0" X 6'-8" X 3/8"	HCM	В	-	<u>د</u> د		A	62/A3.6	62/A3.6	_	
						WD					
310-6	3'-0" X 6'-8" X 3/8"	HCM	В	-	B	WD	A .	62/A3.6	62/A3.6	-	
310-7	2'-0" × 6'-8" × 3/8"	нсм	В	-	В	WD	A	62/A3.6	62/A3.6	-	
3 -	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A	64/A3.6	64/A3.6	66/A3.6	
3 -2	3'-0" X 6'-8" X 3/8" DBL	HCL	د -	-	D	WD	B	62/A3.6	62/A3.6	-	
311-3	2'-6" × 6'-8" × 3/8"	HCM	В	-	B	WD	A .	62/A3.6	G2/A3.6	-	
311-4	3'-0" × 6'-8" × 3/8"	HCL	<u>د</u>	-	B	WD	A .	62/A3.6	62/A3.6	-	
311-5	3'-0" × 6'-8" × 3/8"	нсм	В	-	C	WD	A	62/A3.6	62/A3.6	-	
311-6	3'-0" X 6'-8" X 3/8"	нсм	В	-	В	WD	A	62/A3.6	62/A3.6	-	
311-7	3'-0" × 6'-8" × 3/8"	нсм	В	-	C	WD	A	62/A3.6	62/A3.6	-	
311-8	3'-0" X 6'-8" X 3/8"	нсм	В	-	C	WD	A	62/A3.6	62/A3.6	-	
311-9	2'-0" X 6'-8" X 3/8" DBL	нсм	в	-	D	WD	в	62/A3.6	62/A3.6	-	
312-1	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	A	HM	A	64/A3.6	64/A3.6	66/A3.6	
3 2-2	3'-0" X 6'-8" X 3/8" DBL	HCL	c	-	D	WD	В	G2/A3.6	62/A3.6	-	
3 2-3	2'-6" X 6'-8" X 3/8"	нсм	в	-	в	MD	A	62/A3.6	62/A3.6	-	
312-4	3'-0" × 6'-8" × 3/8"	HCL	c	-	в	WD	A	G2/A3.6	G2/A3.6	-	
312-5	3'-0" × 6'-8" × 3/8"	нсм	в	-	С	WD	A	G2/A3.6	G2/A3.6	-	
312-6	3'-0" X 6'-8" X 3/8"	нсм	в	-	в	WD	A	G2/A3.6	62/A3.6	-	
3 2-7	3'-0" X 6'-8" X 3/8"	нсм	в	-	c	WD	A	62/A3.6	62/A3.6	-	
312-8	3'-0" X 6'-8" X 3/8"	нсм	в	-	с	WD	A	62/A3.6	62/A3.6	-	
312-9	2'-0" X 6'-8" X 3/8" DBL	нсм	в	-	D	WD	в	62/A3.6	G2/A3.6	-	
3 3-	3'-0" X T'-0" X 3/4"	HMI	A	60 MIN.	A	нм	A	64/A3.6	64/A3.6	66/A3.6	
3 3-2	3'-0" X 6'-8" X 3/8"	HCL	c	-	в	WD	A	62/A3.6	62/A3.6	-	
3 3-3	3'-0" X 6'-8" X 3/8"	нсм	В	-	<u>۔</u> د	WD	A	62/A3.6	G2/A3.6	_	
3 3-4	3'-0" X 6'-8" X 3/8"	нсм	В	_	<u>د</u>	WD	A	62/A3.6	62/A3.6	_	
3 3-5	3'-0" X 6'-8" X 3/8"	нсм	В	_	<u>د</u>	WD	A	62/A3.6	62/A3.6	_	
3 3-6	3'-0" X 6'-8" X 3/8"	нсм	в	-	ۍ د	WD	A	62/A3.6	62/A3.6	_	
313-7	2'-0" X 6'-8" X 3/8" DBL	нсм	В	-	<u>ס</u>	WD	В	62/A3.6	G2/A3.6	_	
					<u> </u>			02/70.0	02/70.0	_	
3 4-	3'-0" X 7'-0" X 3/4"	HMI	A	60 MIN.	Δ.	нм	A	64/A3.6	64/A3.6	66/A3.6	
3 4-2	3'-0" X 6'-8" X 3/8"	HCL	с С		A 	MD	A	62/A3.6	62/A3.6	-	
3 4-3	3'-0" X 6'-8" X 3/8"	HCM	в	-	B	WD		62/A3.6	62/A3.6		
				-	<u>د</u>		A .			-	
3 4-4	3'-0" × 6'-8" × 3/8"	HCM	B	-	<u>د</u>	MD MD	A	62/A3.6	62/A3.6	-	
3 4-5	3'-0" × 6'-8" × 1 3/8"	HCM	B	-	<u>د</u>	MD MD	A	62/A3.6	62/A3.6	-	
3 4-6	3'-0" X 6'-8" X 3/8"	HCM	B	-	<u>د</u>	WD WD	A	62/A3.6	G2/A3.6	-	
3 4-6	2'-0" X 6'-8" X 3/8" DBL	нсм	В	-	D	WD	B	62/A3.6	62/A3.6	-	
		1 6 - 21		6017	*	18.2				erne -	
215 1		HMI	A	60 MIN.	A	HM	A	64/A3.6	G4/A3.6	66/A3.6	
3 5- 2 5-2	3'-0" X 7'-0" X 3/4"		- I			. IAIT)	A	G2/A3.6	G2/A3.6	-	
315-2	3'-0" X 6'-8" X 3/8"	HCL	د ح	-	В	WD					
315-2 315-3	3'-O" × 6'-&" × 3/&" 3'-O" × 6'-&" × 3/&"	HCL HCM	в	-	С	WD	A	G2/A3.6	62/A3.6	-	
315-2 315-3 315-4	$3^{L}-O^{"} \times 6^{L}-8^{"} \times 3/8^{"}$ $3^{L}-O^{"} \times 6^{L}-8^{"} \times 3/8^{"}$ $3^{L}-O^{"} \times 6^{L}-8^{"} \times 3/8^{"}$	HCL HCM HCM	B B	-	с С	WD WD	A	G2/A3.6 G2/A3.6	62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5	$\begin{array}{c} 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \end{array}$	HCL HCM HCM HCM	B B B		с с с		A A A	G2/A3.6 G2/A3.6 G2/A3.6	62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5	$\begin{array}{c} 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \\ 3^{1}-\mathcal{O}^{*} \times 6^{1}-\mathcal{B}^{*} \times \mid 3/\mathcal{B}^{*} \end{array}$	HCL HCM HCM HCM	B B B		с с с		A A A	G2/A3.6 G2/A3.6 G2/A3.6	62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	
315-2 315-3 315-4 315-5 315-6	$\begin{array}{c} 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \\ 3^{1}-\mathcal{O}^{n} \times 6^{1}-\mathcal{B}^{n} \times \mid 3/\mathcal{B}^{n} \end{array}$	HCL HCM HCM HCM	B B B B	- - -	с с с с	MD MD MD MD	A A A A	62/A3.6 62/A3.6 62/A3.6 62/A3.6	62/A3.6 62/A3.6 62/A3.6 62/A3.6	-	

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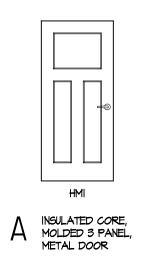
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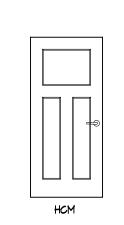
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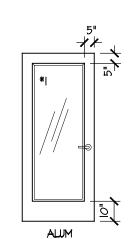
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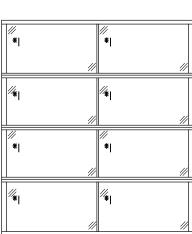


HOLLOW CORE MOLDED 3 PANEL

HCL WOOD LOUVERED



ALUMINUM STOREFRONT



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ALUMINUM AND GLASS OVERHEAD DOOR MODEL 511

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OHS INSULATED STEEL OVERHEAD DOOR MODEL 470





HARDWARE SETS

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- A. 11/2 PR. BUTTS I LATCHSET AND DEADBOLT I WEATHER STRIP SET WITH SWEEP
- I THRESHOLD I STOP I VIEWER - 60" AFF (NO VIEWER ON DOOR D) ADD 2ND DOOR VIEWER IN
- ACCESSIBLE UNITS @ 43" AFF B. | |/2 PR. BUTTS
- I LATCHSET I STOP

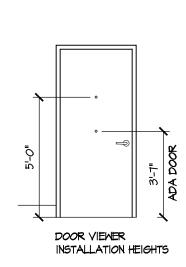
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- C. 11/2 PR BUTTS I PRIVACY SET I STOP
- D. 3 PR BUTTS 2 DUMMY SET 2 BALLCATCH @ HEAD OF DOORS 2 STOP
- E. | 1/2 PR BUTTS I OFFICE SET I STOP
- F. 3 PR. BUTTS I LATCHSET AND DEADBOLT I WEATHER STRIP SET WITH SWEEP I THRESHOLD I SET FLUSH BOLTS
- 6. CYLINDER REMAINING HARDWARE BY STORE FRONT MFG.
- H. 3 1/2 PR BUTTS I STOREROOM LOCKSET I STOP
- I. 3 PR BUTTS I STOREROOM LOCKSET I COORDINATOR I ASTRAGRAL 2 CLOSERS I WEATHER STRIP I THRESHOLD

GENERAL DOOR HARDWARE NOTES

- I. ALL LOCKSETS TO BE HANDICAP ACCESSIBLE LEVER TYPE, SCHLAGE 'JUPITER' STYLE OR APPROVED EQUAL, U.N.O.,
- 2. ALL HARDWARE FINISHES TO BE US26D. 3. ALL APARTMENT ENTRANCE DOOR HARDWARE TO BE LIGHT COMMERCIAL GRADE. RESIDENTIAL GRADE AT ALL OTHER LOCATIONS.
- 4. UTILIZE BASE STOPS TO FULLEST EXTENT PRACTICAL, USING HINGE STOPS (I HIGH & I LOW) ONLY WHERE BASE STOPS ARE NOT APPLICABLE.





PROJECT NO.: 1817

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ROOM #	ROOM NAME	FL <i>OOR</i> FINISH	N	BA			NI NI	
0	UNIT / ENTRY & HALL	VPF	N Bl	E Bl	S Bl	M Bl	N Pl	E Pl
	KITCHEN		BI	BI	BI	BI	P	PI
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	P	PI
	LIVING ROOM	VPF	BI	BI	BI	BI	P	PI
	BEDROOMI	VPF	BI	BI	BI	BI	P	P
	CLOSET	VT	BI	BI	BI	BI	P	PI
	BATH I	VT	BI	BI	BI	BI	P	PI
	BEDROOM 2	VPF	BI	BI	BI	BI	P	PI
	CLOSET	VT	BI	BI	BI	BI	P	PI
	BATH 2	VT	BI	BI	BI	BI	PI	Pl
02	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI
	KITCHEN	VPF	BI	BI	BI	BI	P	PI
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI
	BEDROOM I	VPF	BI	BI	BI	BI	P	PI
	CLOSET	VT	BI	BI	BI	Bl	PI	PI
	BATH I	VT	BI	BI	BI	Bl	P	P
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	P
	CLOSET	VT	BI	BI	BI	Bl	PI	PI
	BATH 2	VT	BI	BI	BI	BI	PI	PI
03	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	P
	LIVING ROOM	VPF	BI	BI	BI	BI	P	P
	BEDROOM	VPF	BI	BI	BI	BI	P	P
	CLOSET	VT	BI	BI	BI	BI	P	P
	BATH I	VT	BI	BI	BI	BI	11 Pl	P
	BEDROOM 2	 	BI	BI	BI	BI	P	P
	CLOSET		BI	BI	BI	BI	PI PI	P
	BATH 2	VT	BI	BI	BI	BI	PI	PI
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24	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI		P
	KITCHEN		BI	BI	BI	BI		
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	Pl	P
	LIVING ROOM	VPF	BI	BI	BI	BI	Pl	P
	BEDROOM I	VPF	BI	BI	BI	BI	PI	P
	CLOSET	٧T	BI	BI	BI	BI	PI	PI
	BATH I	VT	BI	BI	BI	BI	PI	P
	BEDROOM 2	VPF	BI	BI	BI	Bl	PI	PI
	CLOSET	٧T	BI	ВІ	BI	BI	PI	P
	BATH 2	VT	BI	Bl	BI	Bl	PI	PI
05	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI
	KITCHEN	VPF	BI	BI	BI	BI	11 Pl	P
	MECHANICAL	VT	BI	BI	BI	BI	P	PI
			BI	BI	BI	BI	P	P
	LIVING ROOM		BI	BI	BI	BI	PI	P
	BEDROOM		BI	BI	BI	BI	P	PI
	CLOSET/LAUNDRY	VFT VT	BI		BI	BI	PI	P
				BI				
	BATH	VT	BI	BI	BI	BI	PI	PI
06	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	P
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	KITCHEN	VPF	BI	BI	BI	BI	Pl	P
	MECHANICAL	VT	BI	BI	BI	BI	P	Pl
	COAT CLOSET	VPF	BI	BI	BI	BI	Pl	PI
	LIVING ROOM	VPF	BI	BI	BI	BI	Pl	P
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	P	P P
	BATH	VT	BI	BI	BI	BI	PI	면
27	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	P
- 1	KITCHEN		BI	BI	BI	BI	PI PI	PI PI
	MECHANICAL		BI	BI	BI		PI PI	PI PI
	COAT CLOSET		BI	BI	BI	BI BI	PI PI	PI PI
	LIVING ROOM		BI	BI	BI	BI		P p
	BEDROOM		BI	BI	BI	Bl		
	CLOSET/LAUNDRY BATH	VT VT	BI	BI BI	BI BI	BI BI	PI PI	PI PI
08	UNIT / ENTRY & HALL		BI	BI	BI	BI	Pl pl	
			BI	BI	BI	BI		Pl pl
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	LIVING ROOM		BI	BI	BI	BI		P p
	BEDROOM		BI	BI	BI	BI		
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	Pl
	BATH	٧T	BI	Bl	BI	Bl	Pl	Pl
29	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI
•	KITCHEN	VPF	BI	BI	BI	BI	P	P
	MECHANICAL		BI					PI PI
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	LIVING ROOM		BI	BI	BI	BI	19 19	
	BEDROOM		BI	BI	BI	BI		
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	BATH	VT	BI	BI	BI	Bl	P	PI
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ROOM FINISH SCHEDULE

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5	М	FINISH	HEIGHT	REMARKS	R00M #	ROOM NAME	FINISH	N	E	5	м	N	E	5	М	FINISH	HEIGHT	REMARKS
PI	Pl	CGBI	RE: RCP		110	UNIT / ENTRY & HALL	VPF	BI	Bl	BI	BI	Pl	PI	PI	Pl	CGBI	RE: RCP	
19 19	PI PI	CGBI CGBI	RE: RCP RE: RCP			KITCHEN MECHANICAL		BI	BI BI	BI	BI	P 	19 19	ף ק	ףן ויי	CGBI CGBI	RE: RCP	
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PI	PI	CGBI	RE: RCP			LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
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PI	P	COBI	RE: RCP			BATH	VT	BI	BI	BI	BI	P	PI	P	P	COBI	RE: RCP	
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PI	PI	CGBI	RE: RCP			UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	P	PI	P	CGBI	RE: RCP	
P	P	CGBI	RE: RCP			LAUNDRY		BI	BI	BI BI	BI BI	P 	19 19	ףן ויי	ףן ויי	CGBI CGBI	RE: RCP	
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PI	PI	CGBI	RE: RCP			MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
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P	Pl pl	CGBI	RE: RCP			BEDROOM 2		BI	BI	BI	BI	Pl	Pl		P	CGBI	RE: RCP	
Pl Pl	P 	CGBI CGBI	RE: RCP			CLOSET BATH 2	 	BI	BI	BI BI	BI BI	위 위	19 19	19 19	ମ ମ	CGBI	RE: RCP	
PI	PI	CGBI	RE: RCP		112	COMMUNITY ROOM	VPF	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
P 	P 	CGBI CGBI	RE: RCP RE: RCP		ll2A	MECHANICAL TOILET	VT 	BI	BI BI	BI BI	BI BI	P2 P2	P2 P2	P2 P2	P2 P2	CGBI CGBI	RE: RCP RE: RCP	
PI	PI	COBI	RE: RCP		2A	RETAIL SPACE	CONC	-	-	-	-	-	-	-	-	COBI	RE: RCP	
PI	PI	CGBI	RE: RCP		4	OFFICE	VPF	BI	BI	BI	BI	P2	P2	٣2	P2	CGBI	RE: RCP	
P	Pl	CGBI	RE: RCP					BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
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PI	P	CGBI	RE: RCP		5	OFFICE	VPF	BI	BI	BI	BI	P3	P3	P3	P3	CGBI	RE: RCP	-
		6.671			6			BI	BI	BI	BI	P3	P3	P3	P3	CGBI	RE: RCP	
P 	P 	CGBI CGBI	RE: RCP RE: RCP		۲۱۱ ۱۱۶	OFFICE PUMP/RISER	VPF CONC	Bl B2	Bl B2	Bl B2	Bl B2	P3 Pl	P3 PI	P3 Pl	P3 Pl	CGBI CGBI	RE: RCP	
PI	P	CGBI	RE: RCP		9	BUILDING SERVICES	CONC	B2	B2	B2	B2	Pl	Pl	P	P	CGBI	RE: RCP	
PI	PI	CGBI	RE: RCP		120	CORRIDOR	CONC	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
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PI PI	PI PI	CGBI	RE: RCP		122	CORRIDOR	CONC	-	-	-	-	-	-	-	-	LAFM	NL: NUP	
PI	PI	CGBI	RE: RCP		SI	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
Pl	PI	CGBI	RE: RCP		52	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
PI	Pl	CGBI	RE: RCP		53 54	STAIR STAIR	РW РW	-	-	-	-	-	-	-	-	EXPW EXPW	RE: RCP	
PI	P	CGBI	RE: RCP		55	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
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PI	PI	CGBI	RE: RCP			LIVING ROOM	VPF	BI	Bl	Bl	BI	P١	PI	PI	PI	CGBI	RE: RCP	
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PI	PI	CGBI	RE: RCP			LIVING ROOM		BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
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GENERAL FINISH NOTES (GFN)

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- A. SEE REFLECTIED CEILING PLANS FOR FINISHES OF CEILINGS, BEAMS, ETC..
- B. PREPARE ALL FLOORS AS REQUIRED FOR FLOOR FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
- C. GYPSUM BOARD FINISH TO BE A SMOOTH & EVEN "FLAT" FINISH ON ALL WALLS & CEILINGS. D. WOOD TRIM & BASE: NEW PAINTED WOOD BASE & TRIM SHALL BE PINE, U.N.O..
- E. PAINT ALL EXPOSED GYPSUM BOARD, METAL HANDRAILS, ETC... UTILIZE PAINT TYPE PER
- MANUFACTIURER'S RECOMMENDATION. DO NOT PAINT PREFINISHED METALS & OTHER ITEMS NOTED TO BE WITHOUT APPLIED FINISH. RE: DOOR SCHEDULE FOR DOOR & TRIM FINISHES.

- F. PAINT EXPOSED ELECTRICAL WIRE MOLD & BOXES TO MATCH ADJACENT WALL COLOR. SAME AT SIMILAR ITEMS. G. ALL FIXTURES, TOILET ACCESSORIES, HARDWARE, ETC. TO BE US26D (626) SATIN (BRUSHED) CHROME (OR
- COMPARABLE) FINISH, U.N.O., H. ACCESS PANEL FRAMES & DOORS TO BE METAL TYPE, PAINTED FINISH. FIRE RATED TYPE WHERE REQUIRED IN RATED WALLS & CEILINGS.

LOW VOC / FORMALDEHYDE

- A. INTERIOR PAINTS, PRIMERS, SEALERS & COATINGS TO COMPLY W/ GREEN SEAL STANDARDS FOR LOW VOC LIMITS.
- B. INTERIOR ADHESIVES TO COMPLY W/ RULE 1168 OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. CAULKS & SEALANTS TO COMPLY W/ REGULATION 8, RULE 51 OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT.
- C. INTERIOR COMPOSITE WOOD (PLYWOOD, OSB, MDF, CABINETRY, ETC.) TO BE CERTIFIED COMPLIANT W/ CALIFORNIA 93120, OR BE CERTIFIED FORMALDEHYDE-FREE COMPOSITE WOOD.
- D. UTILIZE CURRENT STANDARDS LISTED ABOVE. LOW VOC REQUIREMENTS FOR ITEMS A, B & C ABOVE DO NOT APPLY TO SHOP FABRICATED ITEMS THAT ARE ALSO FINISHED IN THE SHOP.

GENERAL MATERIAL SCHEDULE NOTES

- A. REFER TO FINISH PLANS FOR FLOOR PATTERNS, LAYOUTS, & LIMITS OF FLOORING.
- B. REFER TO FINISH SCHEDULE FOR ACCENT COLOR & WALL TREATMENT LOCATIONS. C. FLOOR FINISH TRANSITIONS: ALL ADA COMPLIANT, ALL METAL TRANSITIONS TO HAVE SATIN NICKEL FINISH:
- VINYL PLANK TO VINYL TILE: RUBBER TYPE
- D. PAINTED WALLS & CEILINGS ARE GYPSUM BOARD, U.N.O., E. SHERWIN WILLIAMS PAINTS ARE SELECTIED AS 'BASIS FOR DESIGN'. COLOR MATCHING THESE
- SELECTIONS W/ APPROVED PAINT VENDORS IS ALLOWABLE. F. FLOORING MATERIALS WITHIN STAIR SHAFTS, EXIT PASSAGEWAYS & CORRIDORS SHALL COMPLY WITH DOC FF-I "PILL TEST" (CPSC 16 CFR, PART 1630).
- G. PAINTED & STAINED SURFACES TO HAVE THE FOLLOWING FINISH, U.N.O., CEILINGS: FLAT
- WALLS: EGGSHELL WOOD DOORS & TRIM: SEMI-GLOSS METAL DOORS & FRAMES: SEMI-GLOSS
- METAL: SEMI-GLOSS H. APT UNIT & COMMUNITY ROOM KITCHENS TO INCLUDE THE FOLLOWING
- CABINETS: WCI COUNTERTOPS & BACKSPLASHES: PLC I. UNIT BATHROOMS TO INCLUDE THE FOLLOWING:
- CABINETS: WCI VANITY COUNTERTOPS: VCI



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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073





SEAL ARCHITECT - TIMOTHY O.K. WILSON MO. LICENSE NO. A-6972

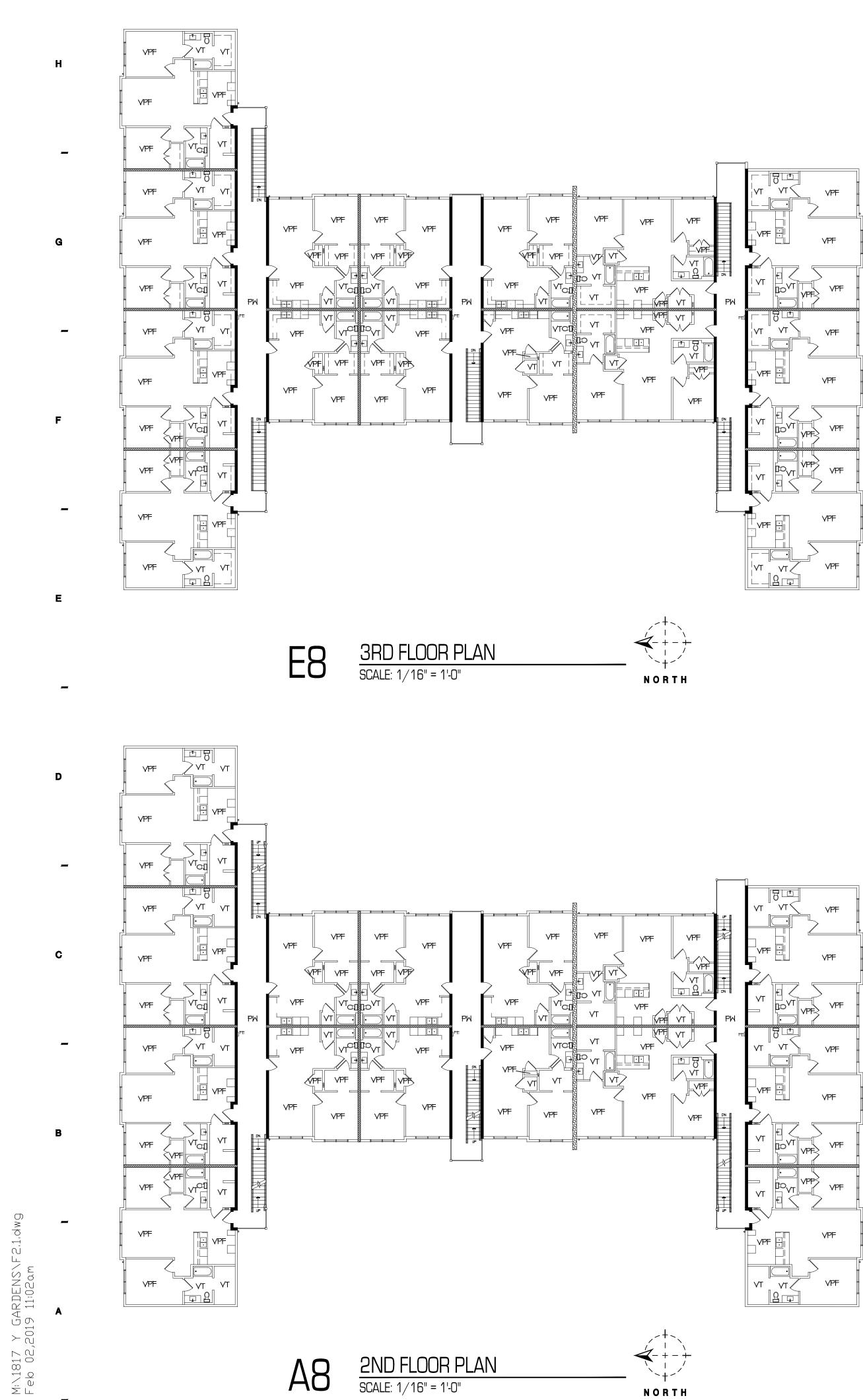


MATERIAL SCHEDULE

ISSUE DATE: 02.04.2019 **REVISIONS**:



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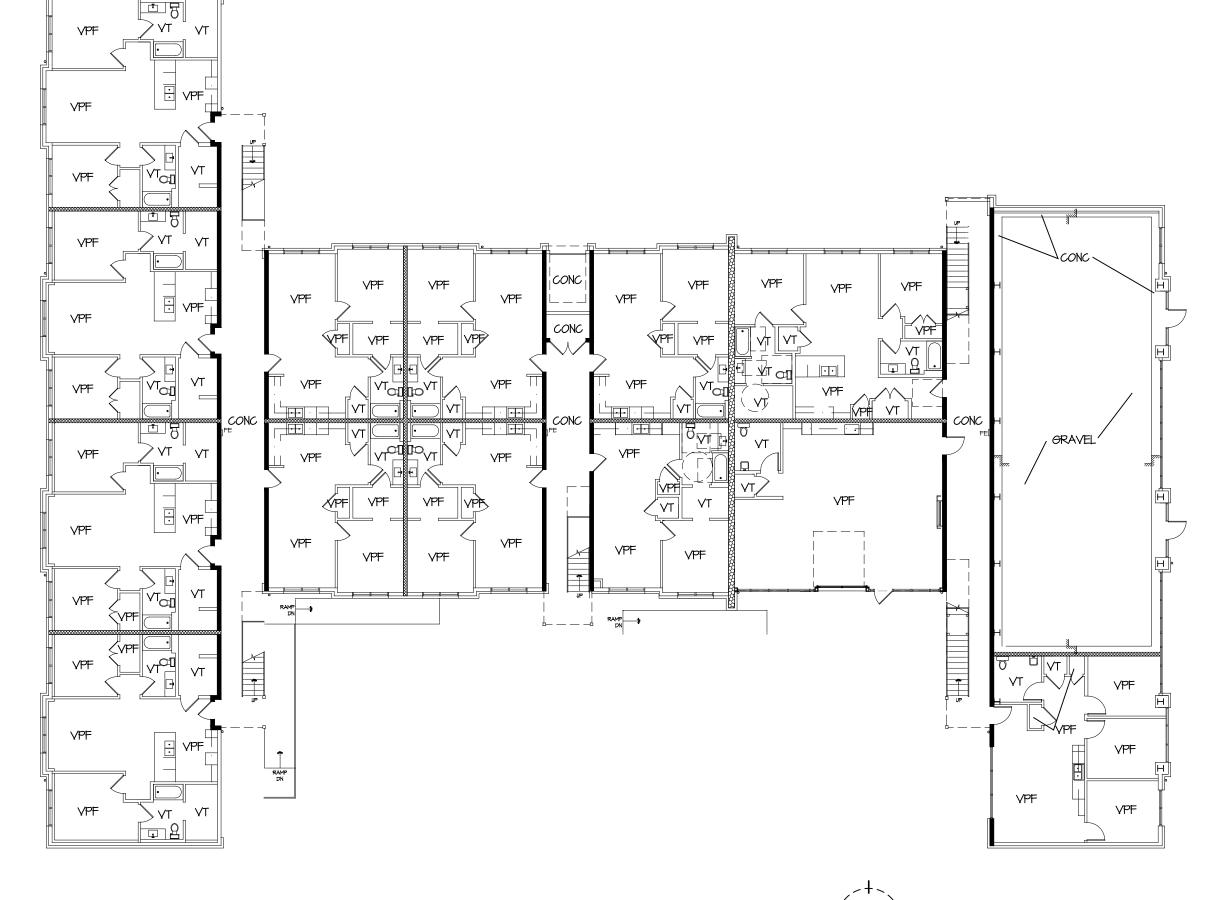
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1ST FLOOR PLAN SCALE: 1/16" = 1'-0"

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- I. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding
- 3. All design and construction work for this project shall conform to the requirements of the 2012 International Building Code, as amended by the City of Springfield, MO.
- 4. These drawings are for this specific project and no other use is authorized.
- 5. Concrete:
- A. All concrete for foundations (walls, grade beams, footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not
- F. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than O.OI perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- H. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current
- Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2
- Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement
- K. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 × 4 horizontal keys at construction joints for shear transfer. L. No aluminum items shall be embedded in any concrete.

6. Reinforcing Steel:

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A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185. B. Clear minimum coverage of concrete over reinforcing steel shall be

as follows:	-
Concrete placed aqainst earth	3"
Formed concrete against earth	2"
Slabs	I"
Beams or Columns	I-I/2"

- All coverage shall be nominal bar diameter minimum.
- C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
- Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
- F. At all holes in concrete walls and slabs, add 2 #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 -#5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

Structural Steel:

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- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A992, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 @Code of Standard Practice for Steel Buildinas and Bridges^A in the 13th Edition of the AISC Steel Construction
- All welding shall conform to the recommendations of the AWS. C. All exterior steel and connections, and brick relief angles shall be hot-dip qalvanized.
- D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the Beam Properties of the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is

more than 2" from the center of the support. All connections must be two bolt minimum. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located

- and shop drawings and connection calculations shall bear his seal. E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise.
- F. Allow I and I/2 tons of miscellaneous structural steel to be used as directed in the field for special conditions by the structural engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included.

9. Post-Installed Anchors:

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Specia inspection is required for all post-installed anchors. The contractor shall coordinate an on-site meeting with the post-installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES ACOI. All anchors shall be installed per the anchor manufacturer's written instructions
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written
- instructions F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES ACIÓ6 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

10. Foundations:

- A. The soil investigation was prepared by TSi Geotechnical, Inc. The report number is 20182062 and the telephone number is (816) 599-7965.
- B. Spread footings and grade beams are designed to bear on native soil or engineered fill (placed in accordance with the recommendations of the geotechnical report) capable of safely
- sustaining 1,500 psf. C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
- D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled. F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

II. Timber and Wood Framing:

- A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2012 International Building Code.
- B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,600,000 psi unless noted otherwise. All joist, truss members and headers to be No. 2 grade (min.) (unless noted otherwise)
- C. Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints.
- D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0".
- E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2012 International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure I, glued and nailed with IOd nails or # 10 screws at 6" on center to supports at edges and 12" on center field. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the
- F. Sill plates shall be bolted to concrete slabs with $\frac{1}{2}$ " diameter bolts at 32" on center (UNO, Re: shearwall sched). Provide plate washers at sill plate anchors for shearwalls per shearwall sched. Plates in direct contact with concrete or masonry shall be treated
- G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design. Provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2.5A" and tie the roof truss to the top plate (provide (2) "H2.5A" Diagonally across from each other when uplift load shown in truss shop submittal exceeds 600lbs). Roof girder ties shall be equal to a "LGT2", "LGT3" or "LGT4" tie (dependent on number of plies) and tie the truss girder to the top plate. Provide "H4" at the top of each stud to top track when the top track has roof truss attached. H. Service condition - dry with moisture content at or below 19% in
- service I. Laminated strand lumber (LSL) shall have an allowable flexural
- stress (Fb) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi. J. Laminated veneer lumber (LVL) shall have an allowable flexural
- stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi. K. Parallel Strand Lumber (PSL) shall have an allowable flexural stress
- (Fb) of 2,900 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. ((E) = 2,200,000 psi for members > 18") L. Pre-engineered wood trusses shall be designed in accordance
- with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-I latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code.
- M. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect / engineer for review prior to fabrication and/or erection. Calculations shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that
- N. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-L
- O. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60.

shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted. Q. Pre-engineered floor truss design load and deflection criteria are as follows: Top Chord Dead Load= 32 psf Top Chord Live Load= 40 psf (private) 100 pst (public) Bottom Chord Dead Load= 10psf Allowable Total Load Deflection= L/360 Allowable Live Load Deflection= L/480; 1/2" maximum R. Pre-engineered roof truss design load and deflection criteria are as follows: Top Chord Dead Load= 15 psf Top Chord Live Load (Typical) = 20 psf plus snow drift

to roof framing plans. Include mechanical equipment loads as required (coordinate locations and sizes with MEP)

S. Wood Shrinkage Considerations: (General Contractor to coordinate with all trades required):

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8.) building walls.

joints, slip joint flashing, etc. 12.) At brick veneer construction provide slip joints for flashing. Refer to architect's plans for flashing and clearances required between brick and wood structure at horizontal locations to compensate for

wood shrinkaae. Delay window and door installation to allow wood framing to reach equilibrium moisture content (EMC). Also, allow $\frac{\mu}{2}$ " gap at window sills and a gap around pre-hung doors.

14.) The application of all finish materials and installation

of non-structural systems shall account for shrinkage of the wood framing T. Construction bracing shall be provided by the contractor as

- the IBC.

13. Shop Drawing Review:

A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company,

B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall: 1) Review each submission for conformance with the means,

methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.

2) Review and approve each submission. 3) Stamp each submission as approved. C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and

ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. l) Concrete mix designs and material certificates including

- placement.
- *avantities*
- 4) Grout mix designs (for CMU).

- 8) Miscellaneous anchors shown on the structural drawings. need not be submitted

14. Structural Special Inspection:

- required special inspections.
- provide access for those inspections.
-) Placement of Concrete 2) Testing of Concrete
- 3) Bolts in Concrete 5) Placement of Reinforcing Steel
- 7) High Strength Bolting

P. Shipment, handling, and erection of trusses shall be bu experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage

> Top Chord Live Load (at Recessed Mechanical Wells) = 100 psf to account for mechanical equipment plus snow drift. Refer

Bottom Chord Dead Load= 10 psf

Allowable Total Load Deflection= L/300

Allowable Live Load Deflection= L/360

oles and notches for horizontal plumbing pipes to be oversized to compensate for shrinkage joints and flexible connections, offsets and nsion/contraction joints are to be utilized in the

ication of pipes to allow for shrinkage. s are to be installed with double flashing to it movement.

pers for piping below upper floor are required adjusted several months after completion of

joints are required for all sheet metal vertical n-spouts, vents, etc. to compensate for

electrical conduit installed vertically should be ided with flexible joints to permit movement. oof drains are to be adjusted to the finished surface at the time of occupancy and also ry year prior to rainy season.

Vertical mechanical and sprinkler systems are to be installed to compensate for wood shrinkage. Plates should be fastened tight to precut studs to reduce compressive space between plate and stud to minimize any potential additional shortening of

10.) All wood structural panels on walls are required to have a $\frac{1}{2}$ " relief gap at each floor level to relieve possible bulging. At stucco construction install horizontal expansion

required to keep the building and studs plumb.

U. Structural members shall not be cut for pipes, etc., unless specifically detailed. Notching and boring of studs and top of plates shall conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, a metal tension tie with minimum 0.058 inches thick and V_2 " inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance section 2308.9.8 of

V. All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Alternate fasteners may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.

Company, Inc. with written documentation. D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than

admixtures and compounds applied to the concrete after

2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct

3) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.

5) Construction and control joint plans and/or elevations. 6) Structural steel shop drawings including erection drawings and piece details. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc.

7) Structural steel connection design calculations.

9) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings E. Bob D. Campbell and Company, Inc. shall review shop drawings and

related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2012 International Building Code. The owner shall employ one or more qualified special inspectors to provide the

B. Special Inspections shall be required for the items indicated below The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and

6) Verification of Soil Bearing Capacities

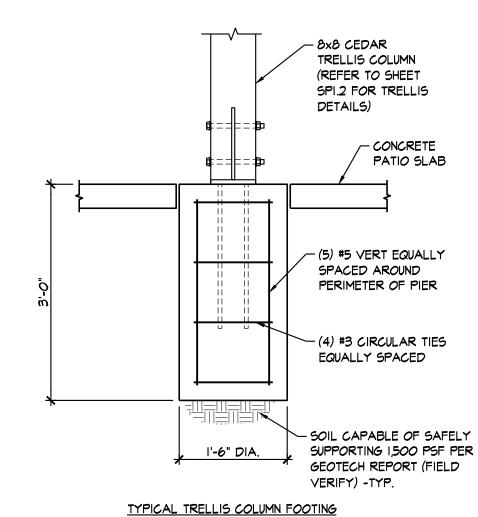
- 8) Post-Installed Anchors
- 9) Structural Welding
- 10) Steel Frame Inspection
- II) Structural Masonry 12) Shop Fabrication of Structural Steel
- 13) Wood shear walls and holdowns
- 14) Wood gravity framing and placement C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other

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- designated person. D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer
- E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

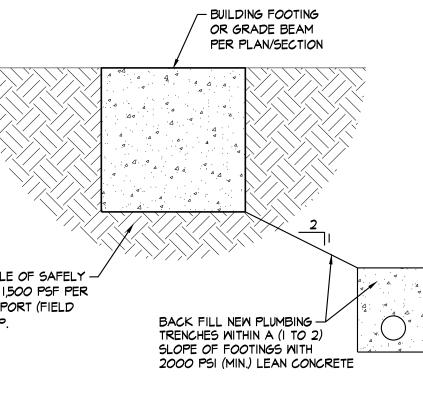
15. Copyright and Disclaimer:

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Christopher W. Boos, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



(REFER TO SHEET SPI.2 FOR TRELLIS DETAILS)

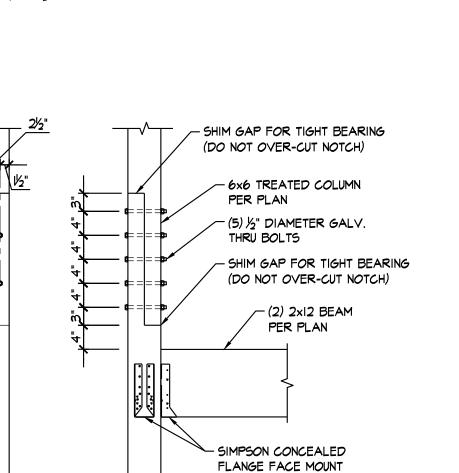




SOIL CAPABLE OF SAFELY SUPPORTING 1,500 PSF PER GEOTECH REPORT (FIELD VERIFY) -TYP.

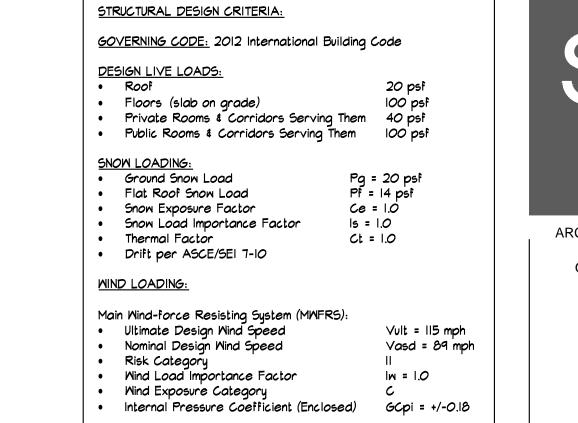


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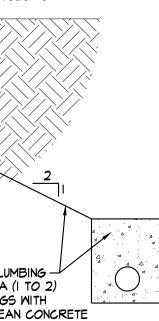
TYPICAL WOOD COLUMN SPLICE DETA	١L
SECTION (2)	
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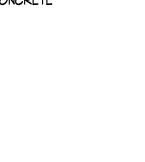
Components & Cladding: • Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.

SEISMIC DESIGN REQUIREMENTS:

- Risk Category • Seismic Importance Factor Is = 1.0 Spectral Response Acceleration Parameters: Sds = 0.20lq
- Sdl = 0.167g
- Site Class Seismic Design Category C











STRUCTURAL GENERAL NOTES

ISSUE DATE:

2.4.2019

REVISIONS:



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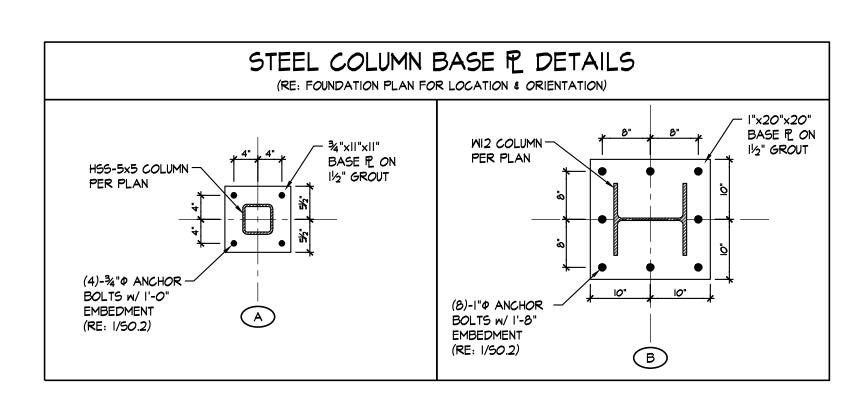
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HEADER SCHEDULE				
HEADER SIZE	BEARING STUDS BELOW EACH END OF HEADER	CONTINUOUS JAMB STUDS AT EACH END	REMARKS	
(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(I) 2x6	(2) 2×6	RE: SECTION 1/50.3	
(3) 2×10's w/ (2) ½" PLYWOOD SPACERS	(I) 2×6	(2) 2×6	RE: SECTION 1/50.3	
(3) 2×10's w/ (2) ½" PLYWOOD SPACERS	(2) 2×6	(2) 2×6	RE: SECTION 1/50.3	
(3) 2×10's w/ (2) ½" PLYWOOD SPACERS	(2) 2×6	(2) 2×6	RE: SECTION 1/50.3	
(3) 2×10's w/ (2) ½" PLYWOOD SPACERS	(2) 2×6	(2) 2×6	RE: SECTION 1/50.3	
(3) 2×10's w/ (2) ½" PLYWOOD SPACERS	(2) 2×6	(2) 2×6	RE: SECTION 1/50.3	



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STUD BEARI	NG WALL SCHEDULE
LOCATION	STUD SIZE & SPACING
Ist FLOOR EXTERIOR WALLS	(2) 2×6 @16"0c
Ist FLOOR INTERIOR WALLS	(2) 2×6 ⊛l6"oc
2nd FLOOR EXTERIOR WALLS	2×6 ⊛l6"oc
2nd FLOOR INTERIOR WALLS	2×6 @16"0c
3rd FLOOR EXTERIOR WALLS	2×6 @16"oc
3rd FLOOR INTERIOR WALLS	2x6 @16"0c

NOTES: I. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL BE 3 STUDS MINIMUM PLUS ONE ADDITIONAL STUD FOR EACH PLY OF GIRDER TRUSS. REFER TO SECTION 6/50.3. STUD PACKS SHALL BE ALIGNED & PROVIDED AT EACH LEVEL OF 3-STORY STRUCTURE TO TRANSFER LOAD TO THE FOUNDATION.

- 2. PROVIDE SQUASH BLOCKS (ALIGNED WITH WALL STUDS ABOVE & BELOW) WITHIN THE DEPTH OF THE FLOOR FRAMING TO TRANSFER STUD LOADS TO THE WALL BELOW, WHERE SUPPORT IS NOT OTHERWISE PROVIDED (TYPICAL).
- 3. WALL STUDS AT DOUBLE-HEIGHT SPACES THAT ARE NOT BRACED BY THE FLOOR OR BY A HORIZONTAL GIRT AT THE FLOOR LEVEL SHALL BE $1/_2$ " x $1/_4$ " TIMBERSTRAND LSL STUDS UNLESS NOTED OTHERWISE.

WALL SHEATHING SCHEDULE FASTENER SPACING LOCA EXTERIC (EXTERIO U.N.O. PEI

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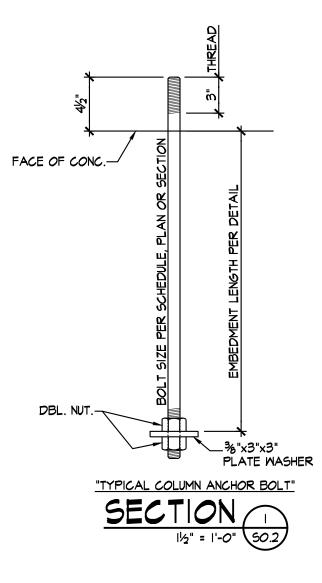
LOCATION	SHEATHING			
LOCATION	SHEATHING	PANEL EDGE	FIELD	
EXTERIOR WALL (EXTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	ૠ ₆ " OSB		8d COMMON NAILS @12"0c	
EXTERIOR WALL (INTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	湯" GYPSUM BOARD	6d COOLER NAILS @4"0c		
TYP. INTERIOR WALL U.N.O. PER SHEAR WALL SCHEDULE	⁵%" GYPSUM BOARD	6d COOLER NAILS @4"0c	6d COOLER NAILS @7"0c	

FLOOR & ROOF DECK SCHEDULE				
LOCATION	DECKING	FASTENER SPACING		
ECCATION	DECKING	PANEL EDGE	FIELD	
TYPICAL ROOF DECK	19/32" <i>O</i> SB	IOd COMMON NAILS @6"0c	IOd COMMON NAILS @12"00	
FLOOR DECK	¾" T&G PLYWOOD	IOd RING SHANK NAILS @6"0c (GLUED & NAILED)	IOd RING SHANK NAILS @I2"0c (GLUED & NAILED)	

NOTES:

I. REFER TO SHEAR WALL SCHEDULE FOR SHEATHING OF SHEAR WALLS.

2. ALL PANEL JOINTS ARE TO BE FULLY BLOCKED.



CON JOIST TO S

BRIDGING

SOLE PLAT BLOCKING

TOP PLATE STUD TO SO

DOUBLE ST DOUBLED .

DOUBLE TO AND INTERS BLOCKING OR RAFTER RIM JOIST

TOP PLATE INTERSECTION CONTINUOUS TWO PIECE CEILING JOI

CONTINUOUS STUD CEILING JOI PARTITIONS CEILING JO

PARALLEL RAFTER TO I" BRACE TO AND PLATE

BUILT-UP CO MULTIPLE ST BUILT-UP GIF BEAMS

BUILT-UP LA VENEER LUN 2" PLANKIN

NOTES: <u>4</u> - <u>3</u>" × <u>0.131</u>" NAILS

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	FOOTING SCHEDULE			
FOOTING TYPE	FOOTING SIZE (FT.) × THICKNESS (IN.)	REINFORCING (EACH WAY)		
3.0	3'-0"x3'-0"x36" Dp	#4@6"oc (TOP & BOT)		
5.0	5'-0"x5'-0"x32" Dp	#4@6"oc (TOP & BOT)		
6.0	6'-0"x6'-0"x32" Dp	#5@6"0c (TOP & BOT)		

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NOTES: I. SPREAD FOOTINGS SHALL BE POURED MONOLITHIC W/ GRADE BEAMS & CONTINUOUS WALL FOOTINGS. REINFORCING FOR GRADE BEAMS & CONTINUOUS WALL FOOTINGS SHALL BE CONTINUOUS THROUGH SPREAD FOOTINGS.

NAILING SCHEDULE (REFER TO NOTES #1 and #2)					
NNECTION	ATTACHMENTS (REF NOTE #3 and #4)				
SILL OR GIRDER	3- 3" x O.I3I" NAILS-TOENAIL	3-8d NAILS-TOENAIL			
TO JOIST	2- 3" x O.I3I" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH END			
TE TO JOIST OR	3" x 0.131" NAILS AT 8"0.cTYPICAL FACE NAIL	16d BOX NAILSZ AT 16"0.c. MAX. FACE NAILING			
•	4-3" × 0.131" NAILS AT 16"0.cBRACED WALL PANELS	3-16d BOX NAILS AT 16"0.c. BRACED WALL PANEL			
TE TO STUD	3- 3" × 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL			
SOLE PLATE	4- 3" × O.I3I" NAILS-TOENAIL OR 3- 3" × O.I3I" NAILS-END NAIL	4-8d NAILS-TOENAIL OR 2-16d NAILS-END NAIL			
STUDS	3" x O.131" NAILS AT 8"0.cFACE NAIL	16d BOX NAILS AT 24"0.c. MAX. FACE NAIL			
TOP PLATES	3" x 0.131" NAILS AT 12"0.cFACE NAIL	16d BOX NAILS AT 16"0.c. MAX. FACE NAIL			
OP PLATE LAPS RSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS			
BETWEEN JOISTS	3-3" × O.I3I" NAILS -TOENAIL	3-8d NAILS-TOENAIL			
TO TOP PLATE	3" × O.I3I" NAILS AT 6"0.cTOENAIL	8d NAILS AT 6"0.c. MAXTOENAIL			
E LAPS AND TONS	3- 3" × 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL			
JS HEADER, ES	3" × 0.131" NAILS AT 10"0.c. ALONG EACH EDGE	16d NAILS AT 16"0.c. MAX. ALONG EACH EDGE-TOENAIL			
OISTS TO PLATE	5- 3" × 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL			
JS HEADER TO	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL			
OISTS, LAPS OVER IS	4- 3" x O.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL			
OISTS TO RAFTERS	4- 3" × O.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL			
O PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL			
TO EACH STUD E	2- 3" × O.I3I" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL			
CORNER AND STUDS	3" × 0.131" NAILS AT 16"0.c.	16d NAILS AT 24"o.c. MAX.			
BIRDER AND	3" x 0.131" NAILS AT 24"0.C. FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH	20d NAILS AT 32"0.C. MAX. TOP AND BOTTOM, STAGGERED ON OPPSITE SIDES. 2-20d NAILS AT ENDS AND EACH			
	SPLICE	SPLICE			
AMINATED UMBER BEAMS	3" × 0.131" NAILS AT 6"0.c. TOP AND BOTTOM ALONG EDGE	I6d NAILS AT 12"0.C. TOP AND BOTTOM ALONG EDGE			
ING	4- 3" × 0.131" NAILS AT EACH SUPPORT	IGD NAILS AT EACH SUPPORT			

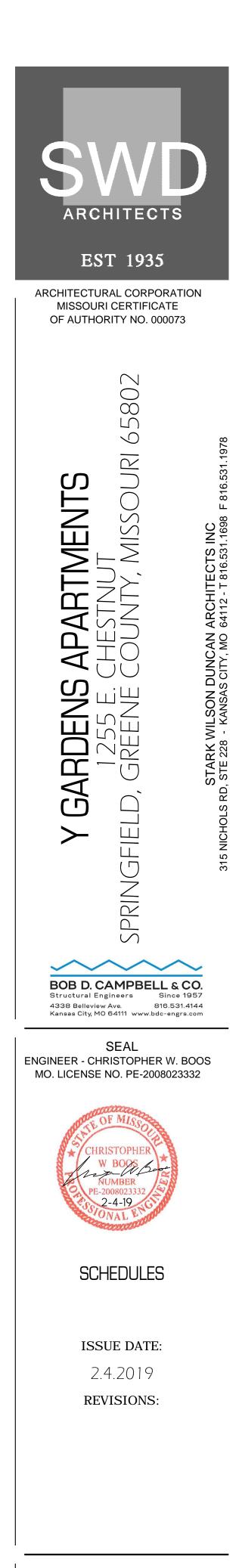
I.) ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR

ALTERNATE PROVIDED BY ENGINEER IN WRITING.

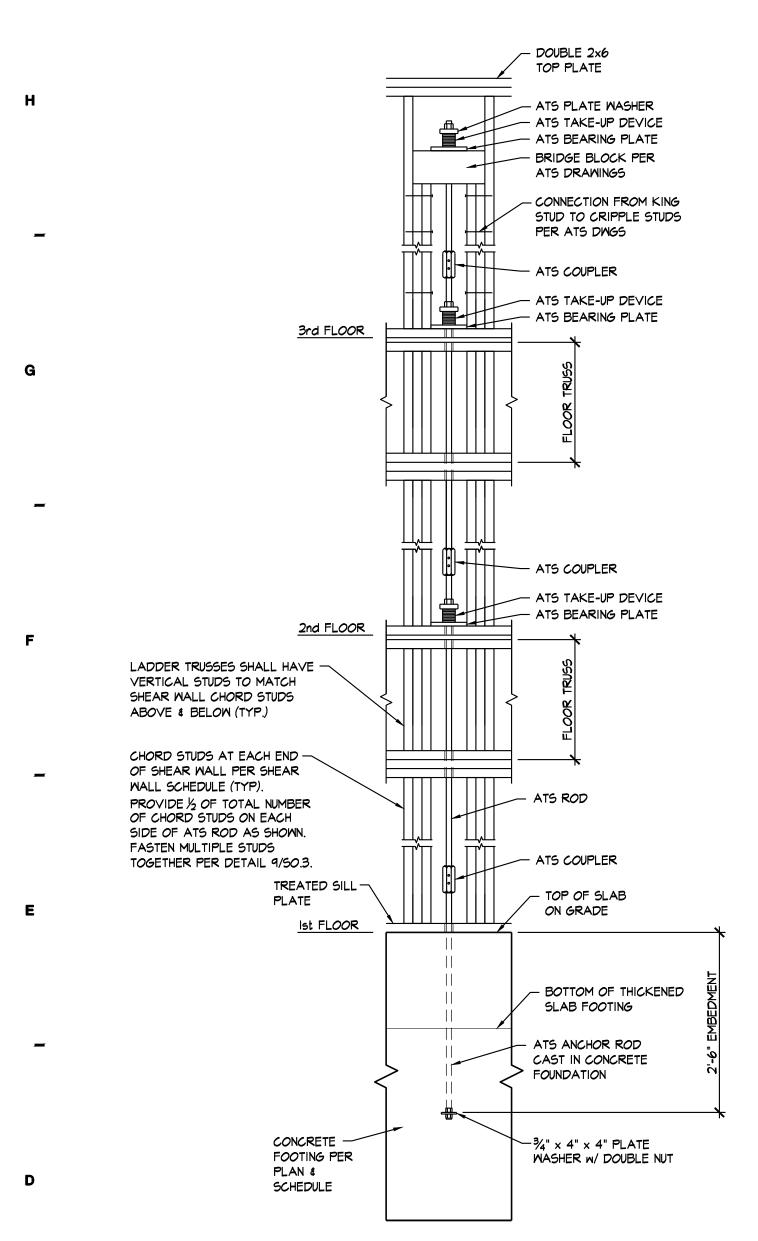
2.) CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE. 3.) NAILING DESIGNATION:

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		- DIAMETER IN INCHE
		- NAIL LENGTH
		- QUANITY

4.) ALL NAILS NOTED AS 8d, 10d, 16d, ETC. SHALL BE COMMON NAILS UNLESS NOTED BOX.







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TYPICAL ANCHOR TIEDOWN SYSTEM DETAIL AT EACH END OF SHEAR WALLS REFER TO PLANS FOR SHEAR WALL LOCATIONS AND TO SHEAR WALL SCHEDULE FOR ADDITIONAL INFORMATION.



ANCHOR TIEDOWN SYSTEM GENERAL NOTES

- I. SIMPSON STRONG-TIE SHALL PROVIDE THE ANCHOR TIEDOWN SYSTEM TO MEET THE DESIGN FORCES AND ELONGATION LIMITS PROVIDED. ATS DRAWINGS AND CALCULATIONS SHALL BE PROVIDED FOR REVIEW AND APPROVAL.
- 2. SHEAR WALLS SHALL BE SUPPORTED WITH A BEARING PLATE AND NUT AT EVERY STORY LEVEL. SKIPPING SHEAR WALL OVERTURNING RESTRAINT AT ANY LEVEL IS NOT PERMITTED.
- 3. SHRINKAGE COMPENSATION DEVICES SHALL BE USED TO ACCOUNT FOR THE SHRINKAGE AT EACH LEVEL.
- 4. ANCHOR BOLTS SHALL NOT BE IN CONTACT WITH PRESSURE TREATED WOOD (PTW). PTW PLATES SHALL HAVE OVERSIZE HOLES $\frac{1}{4}$ Inch minimum and 3/8 inch maximum larger than ROD SIZE. AS AN ALTERNATE, THE ANCHOR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653.
- 5. DO NOT WELD PRODUCTS UNLESS THESE DRAWINGS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING, OR UNLESS SPECIFIC APPROVAL FOR WELDING IS PROVIDED BY SIMPSON STRONG-TIE. SOME STEELS HAVE POOR WELDABILITY AND A TENDENCY TO CRACK WHEN WELDED. CRACKED STEEL WILL NOT CARRY LOAD AND MUST BE REPLACED. NUTS AND COUPLER SHALL NOT BE WELDED.
- 6. IN THE EVENT OF A DISCREPANCY BETWEEN THESE STRUCTURAL DRAWINGS AND THE ATS DRAWINGS, THE STRUCTURAL DRAWINGS ALWAYS GOVERN.
- 7. THESE DRAWINGS ARE SPECIFIC TO ATS AND ARE NOT APPLICABLE TO OTHER MANUFACTURER TIEDOWN SYSTEMS. CONTRACTOR'S PROPOSED SUBSTITUTION OF OTHER MANUFACTURER'S CONNECTORS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND BUILDING JURISDICTION FOR REVIEW AND WRITTEN APPROVAL PRIOR TO ORDERING AT THE EXPENSE OF THE CONTRACTOR. REQUESTS FOR SUBSTITUTION SHALL INCLUDE CURRENT ICC-ES EVALUATION REPORTS AND A LIST STATING THE PROPOSED ITEM-FOR-ITEM SUBSTITUTION HAS EQUIVALENT OR GREATER LOAD CAPACITY AND DEFLECTION LIMITATION. IN ADDITION, SUBSTITUTIONS SHALL COMPLY WITH CURRENT ICC-ES ACCEPTANCE CRITERIA FOR SHRINKAGE COMPENSATING DEVICES (AC316).
- 8. A PRE-CONSTRUCTION MEETING IS RECOMMENDED WITH SIMPSON STRONG-TIE PRIOR TO PLACEMENT OF THE CONCRETE TO ASSIST IN THE INSTALLATION PROCESS AND VERIFY QUANTITIES. TO COORDINATE THIS MEETING, CALL SIMPSON SALES AT 800-999-5099.

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SHEAR WALL SCHEDULE						
	e					CUMULATIVE TENSION /
SHEAR WALL TYPE (PER PLAN)	ist FL <i>OO</i> R WALL SHEATHING	2nd FLOOR WALL SHEATHING	3rd FLOOR WALL SHEATHING	CHORD STUDS (EACH END)	ANCHOR TIEDOWN SYSTEM (EACH END)	COMPRESSION LOAD AT EACH END OF SHEAR WALL (kips)
A	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2×6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 13 kips C = 13 kips
В	%" OSB BOTH SIDES: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB BOTH SIDES: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB BOTH SIDES: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 27 kips C = 27 kips
С	‰" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 5 kips C = 5 kips
D	%6" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 5 kips C = 5 kips
E	%6" OSB ONE SIDE: IOd NAILS @6"0℃ AT PANEL EDGES, @12"0℃ TO INTERMEDIATE FRAMING	%6" OSB ONE SIDE: IOd NAILS @6"0℃ AT PANEL EDGES, @12"0℃ TO INTERMEDIATE FRAMING	%6" OSB ONE SIDE: IOd NAILS @6"0¢ AT PANEL EDGES, @12"0¢ TO INTERMEDIATE FRAMING	(4) 2×6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 5 kips C = 5 kips
F	%" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"0C AT PANEL EDGES, @12"0C TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 5 kips C = 5 kips
G	%" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 7 kips C = 7 kips
н	%" OSB BOTH SIDES: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB BOTH SIDES: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	‰" OSB BOTH SIDES: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2×6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 7 kips C = 7 kips
L	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 10 kips C = 10 kips
K	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x4's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 5 kips C = 5 kips
L	‰" OSB ONE SIDE: IOd NAILS @6"0℃ AT PANEL EDGES, @12"0℃ TO INTERMEDIATE FRAMING	%6" OSB ONE SIDE: IOd NAILS @6"0℃ AT PANEL EDGES, @12"0℃ TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"0¢ AT PANEL EDGES, @12"0¢ TO INTERMEDIATE FRAMING	(4) 2×6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 7 kips C = 7 kips
м	%" OSB ONE SIDE: IOd NAILS @3"0℃ AT PANEL EDGES, @12"0℃ TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @3"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @4"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	(8) 2×6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 27 kips C = 27 kips
N	%" OSB ONE SIDE: IOd NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 27 kips C = 27 kips
0	%" OSB ONE SIDE: IOd NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2×6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 27 kips C = 27 kips
Ρ	‰" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @4"0C AT PANEL EDGES, @12"0C TO INTERMEDIATE FRAMING	‰" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 12 kips C = 12 kips
Q	%" OSB ONE SIDE: IOd NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	%" OSB ONE SIDE: IOd NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION I/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3	T = 7 kips C = 7 kips
R		%" OSB BOTH SIDES: IOd NAILS @4"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	‰" OSB BOTH SIDES: IOd NAILS @6"0c AT PANEL EDGES, @12"0c TO INTERMEDIATE FRAMING	(8) 2×6's (RE: SECTION 1/SO.3)	SIMPSON STRONG-TIE ATS PER SECTION I/SO.3 & 7/S3.1	T = 27 kips C = 27 kips
NOTES:	V N				<u> </u>	

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SPACING AT PANEL EDGES.

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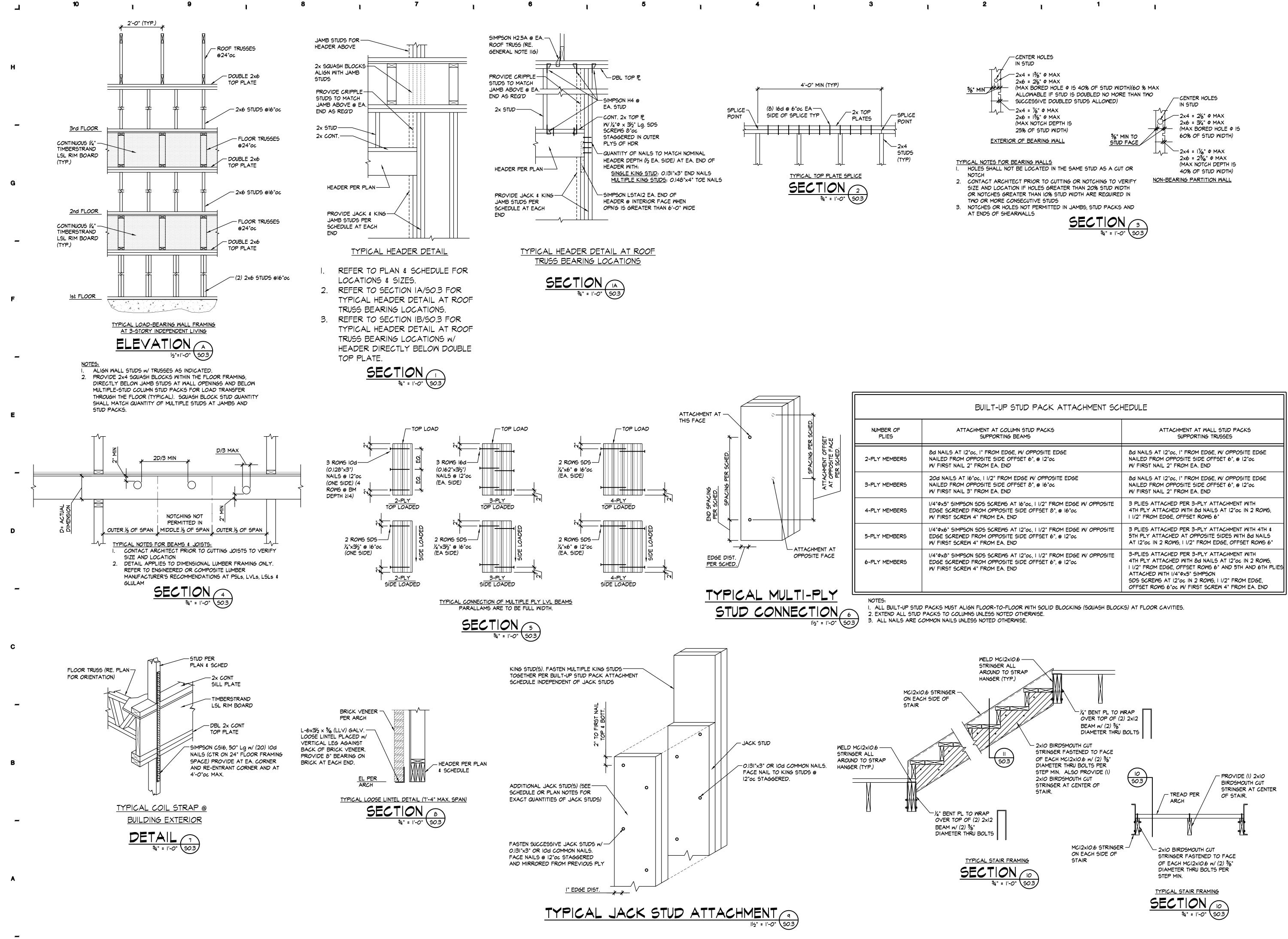
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I. ALL SHEATHING SHALL BE FULLY BLOCKED. PROVIDE 2x BLOCKING BETWEEN STUDS AS REQUIRED TO ACHIEVE FASTENER





	ARCHITECTS EST 1935 ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE	
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5	SEAL ENGINEER - CHRISTOPHER W. BOC MO. LICENSE NO. PE-2008023332)S

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TYPICAL SECTIONS

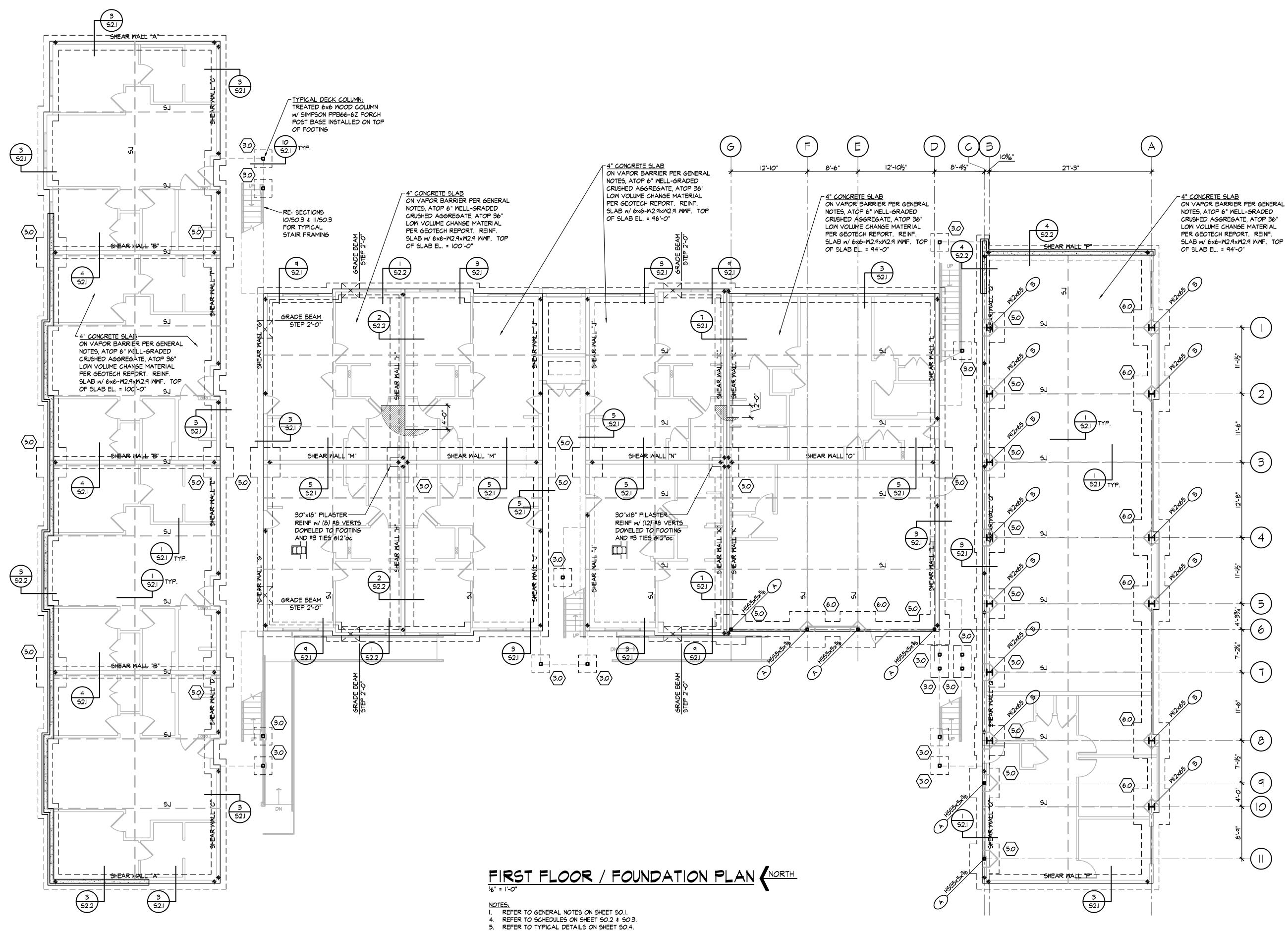
ISSUE DATE:

2.4.2019 **REVISIONS:**

T-UP STUD PACK ATTACHMENT SCH	HEDULE
AT COLUMN STUD PACKS	ATTACHMENT AT WALL STUD PACKS
ORTING BEAMS	SUPPORTING TRUSSES
OM EDGE, W/ OPPOSITE EDGE	8d NAILS AT 12"0C, 1" FROM EDGE, W∕ OPPOSITE EDGE
SIDE OFFSET 6", @ 12"oc	NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"0C
EA. END	W∕ FIRST NAIL 2" FROM EA. END
2" FROM EDGE W/ OPPOSITE EDGE	8d NAILS AT 12"0C, 1" FROM EDGE, W∕ OPPOSITE EDGE
SIDE OFFSET &", @ 16"oc	NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"0C
EA. END	W∕ FIRST NAIL 2" FROM EA. END
CREWS AT 16"0c, 1/2" FROM EDGE W/ OPPOSITE	3 PLIES ATTACHED PER 3-PLY ATTACHMENT WITH
IPPOSITE SIDE OFFSET 8", @ 16"0c	4TH PLY ATTACHED WITH 8d NAILS AT 12"0c IN 2 ROWS,
M EA. END	1 1/2" FROM EDGE, OFFSET ROWS 6"
CREWS AT 12"0c, I 1/2" FROM EDGE W/ OPPOSITE	3 PLIES ATTACHED PER 3-PLY ATTACHMENT WITH 4TH &
IPPOSITE SIDE OFFSET 6", @ 12"0c	5TH PLY ATTACHED AT OPPOSITE SIDES WITH & NAILS
M EA. END	AT 12"ac IN 2 ROWS, I 1/2" FROM EDGE, OFFSET ROWS 6"
CREMS AT 12"0c, I 1/2" FROM EDGE W/ OPPOSITE IPPOSITE SIDE OFFSET 6", @ 12"0c M EA. END	3-PLIES ATTACHED PER 3-PLY ATTACHMENT WITH 4TH PLY ATTACHED WITH & NAILS AT 12"00 IN 2 ROWS, I 1/2" FROM EDGE, OFFSET ROWS 6" AND 5TH AND 6TH PLIES ATTACHED WITH 1/4"\$x5" SIMPSON SDS SCREWS AT 12"00 IN 2 ROWS, I 1/2" FROM EDGE, OFFSET ROWS 6"00 W/ FIRST SCREW 4" FROM EA. END

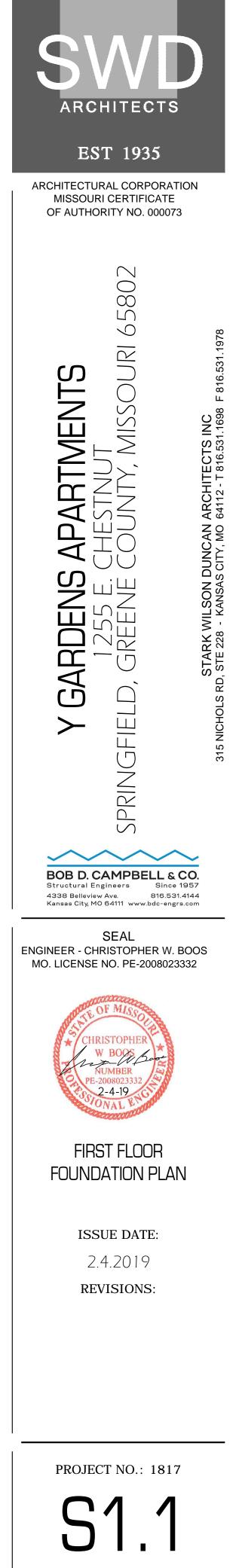


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6. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.

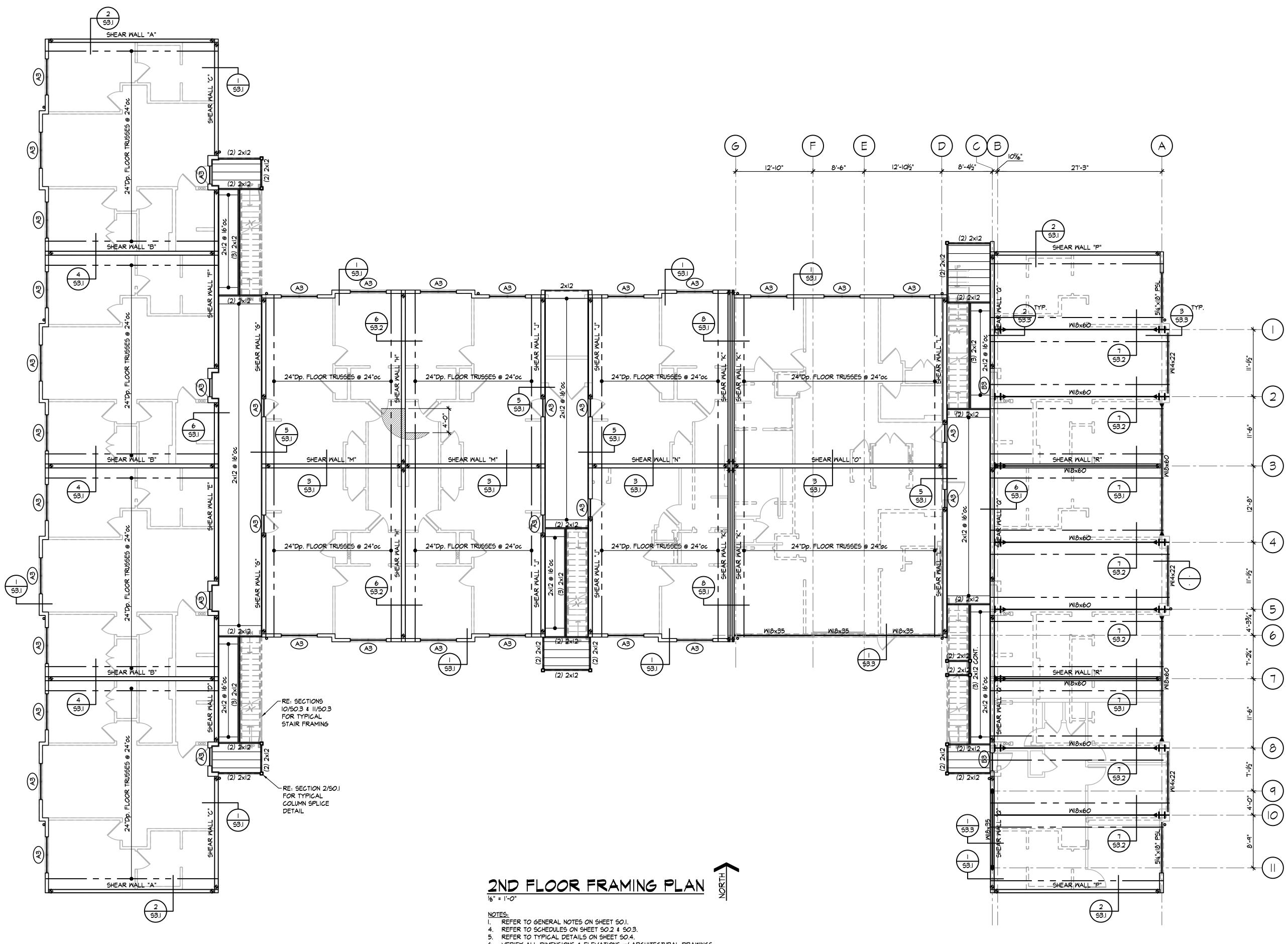


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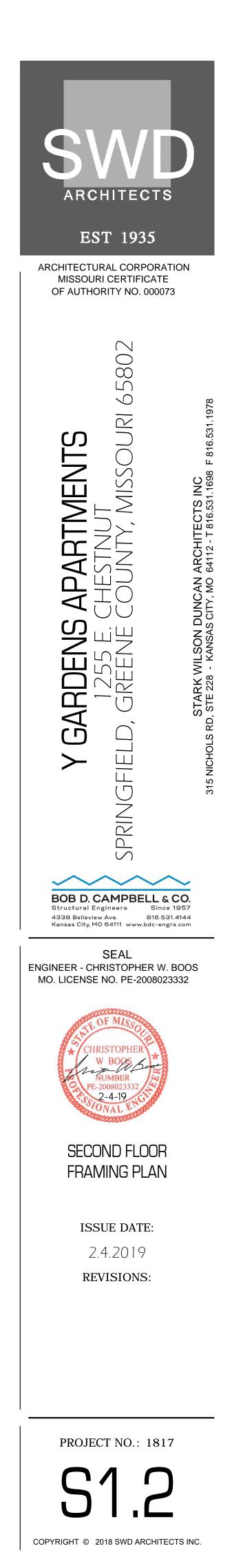
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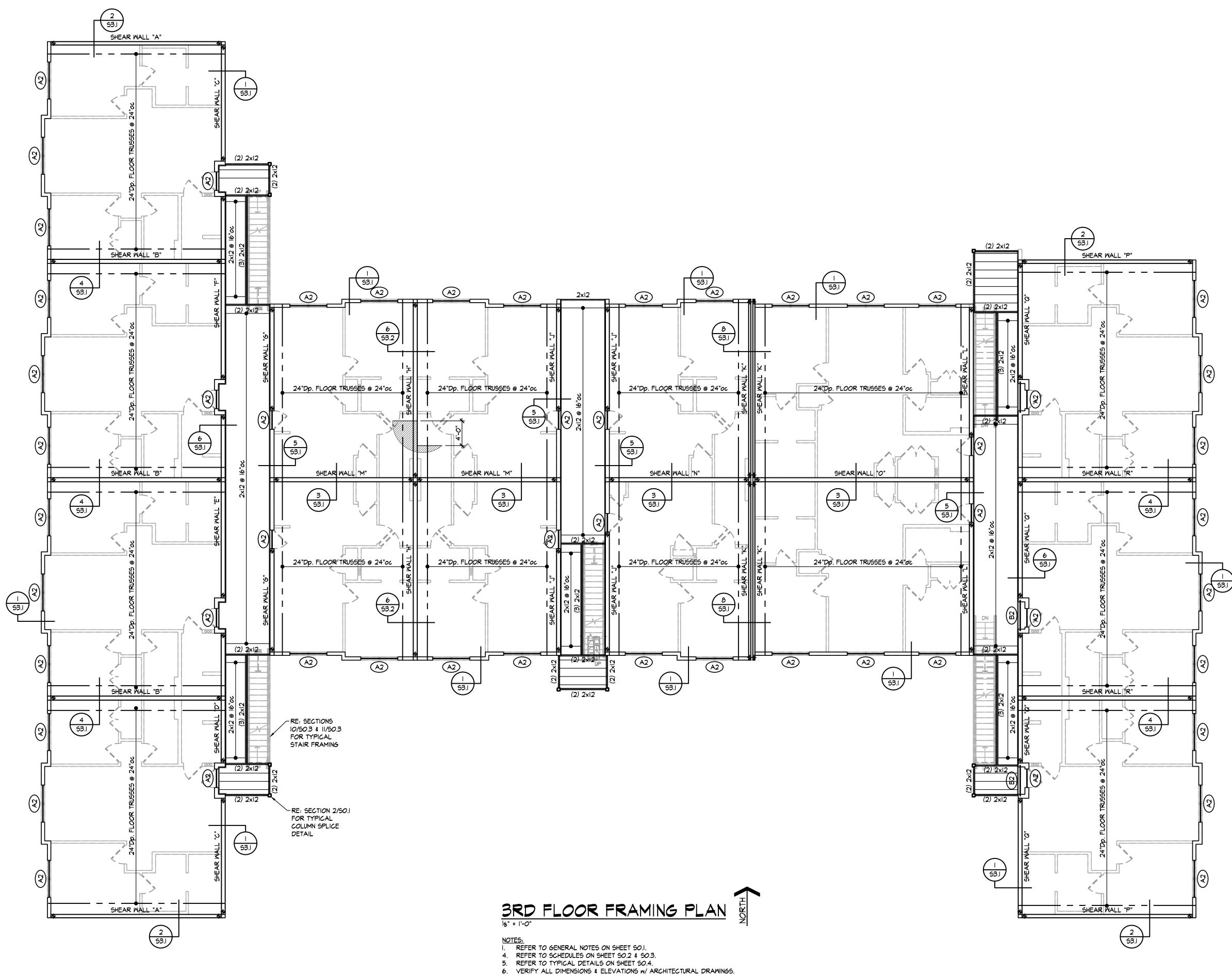
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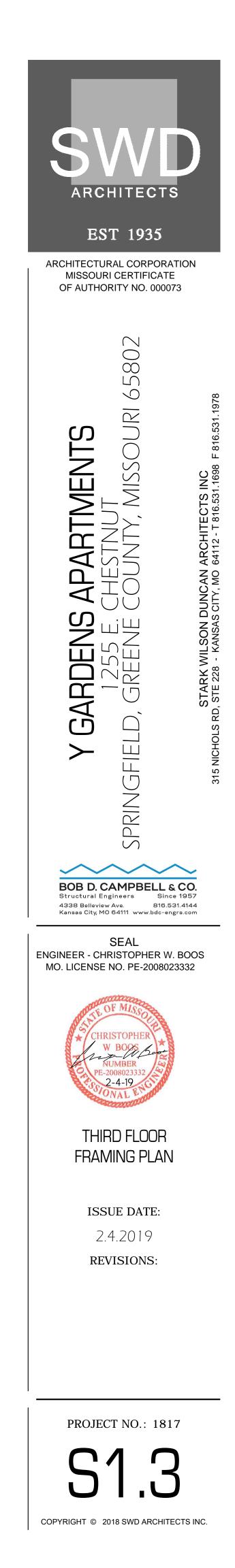
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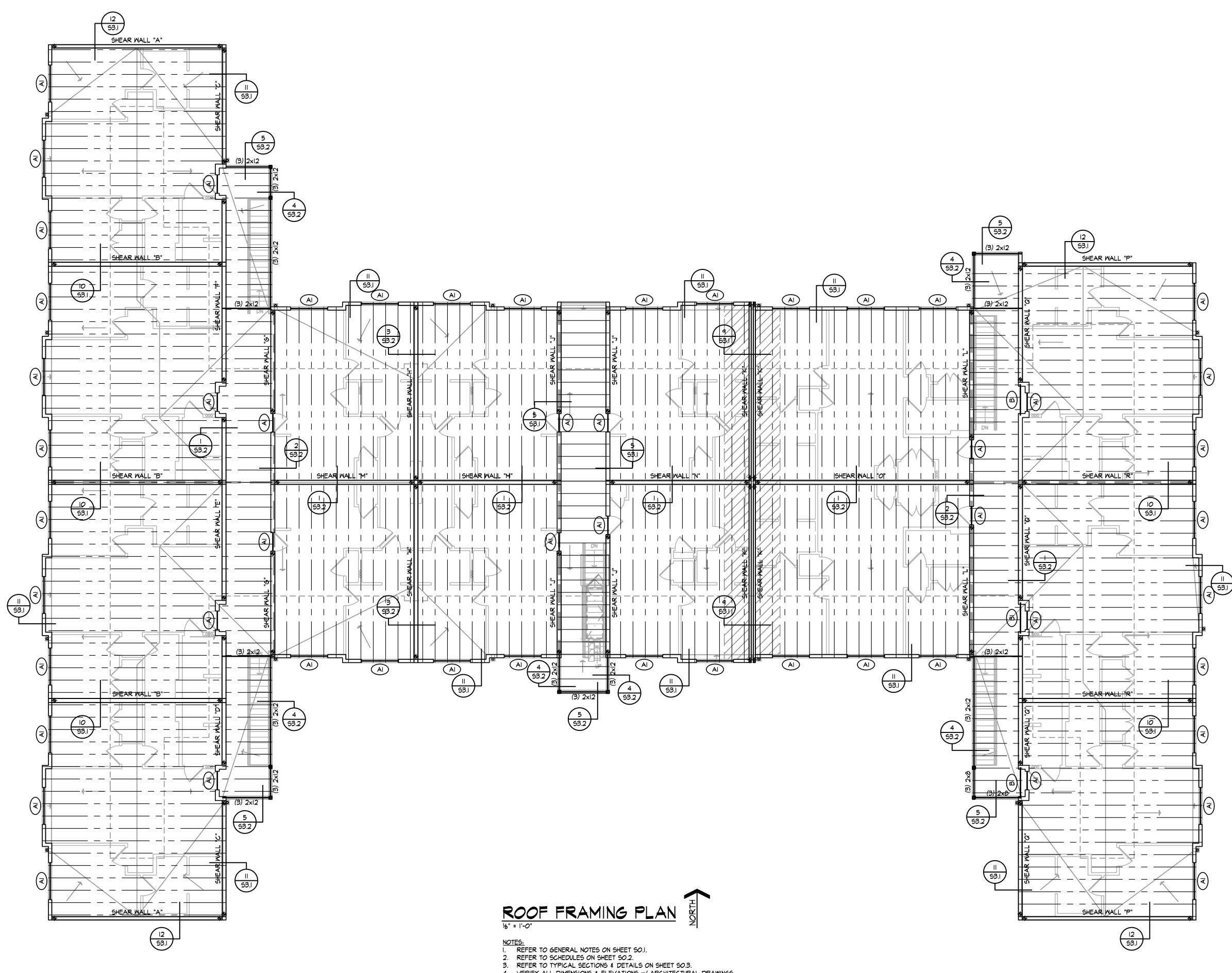
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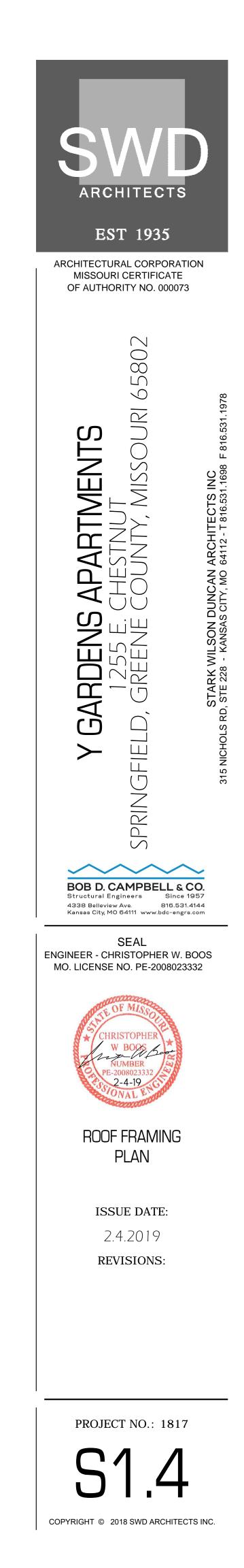
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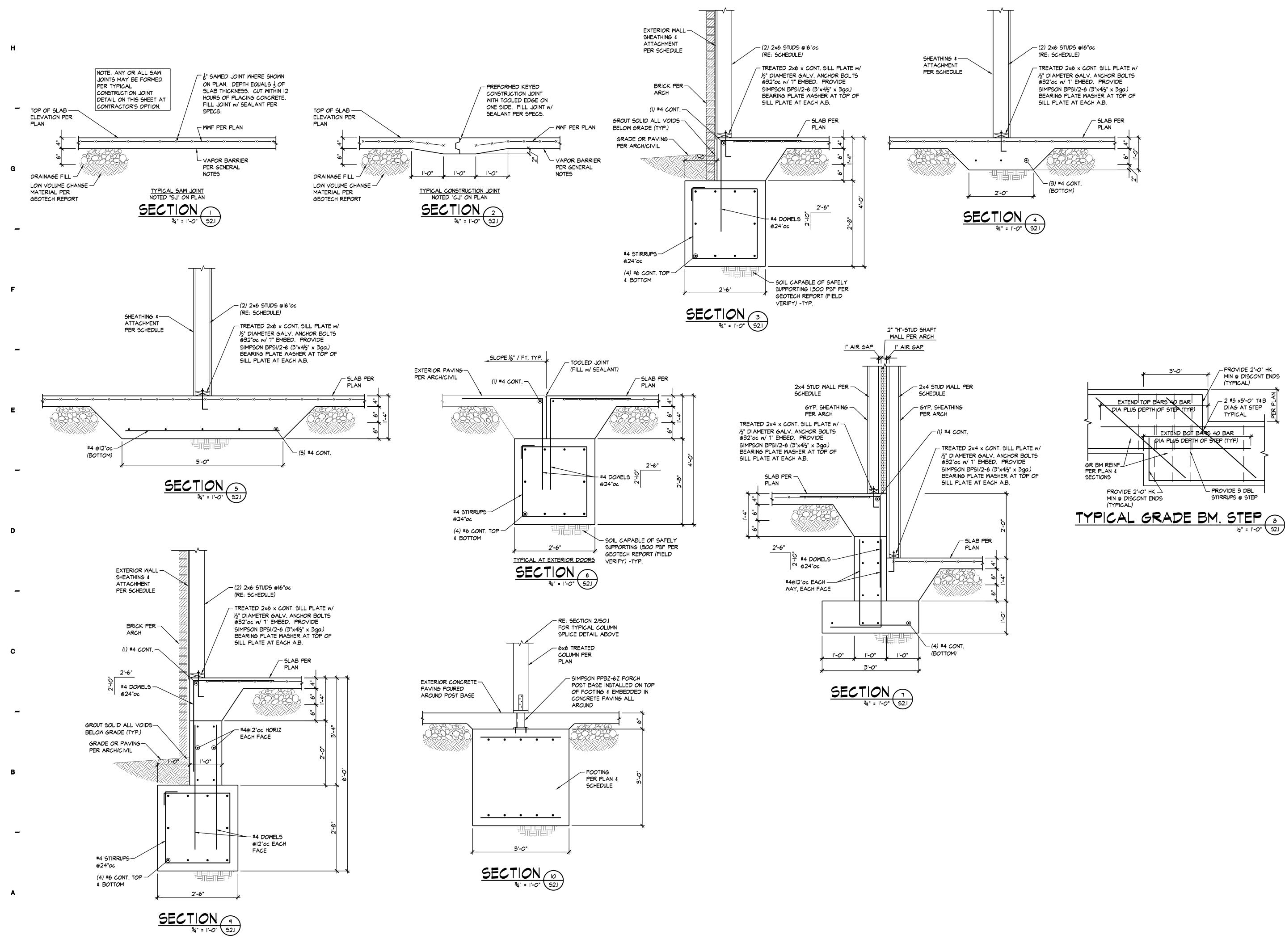
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- 4. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
- 4. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING W/ THE STRUCTURAL DETAILS &
- UTLIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.



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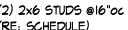
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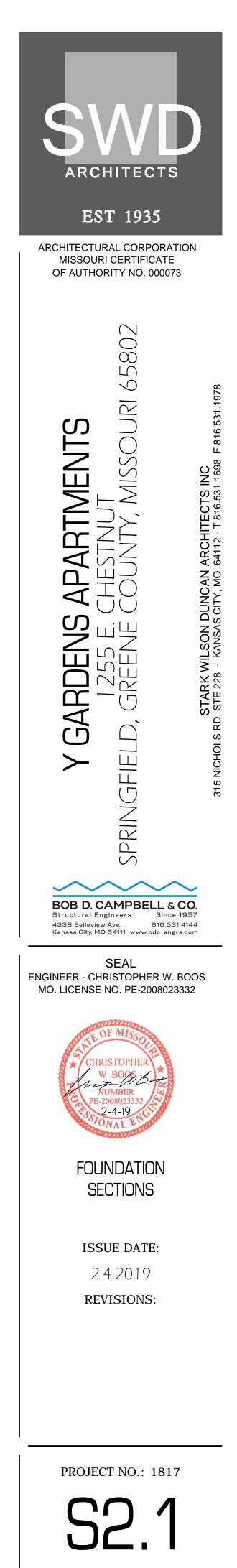
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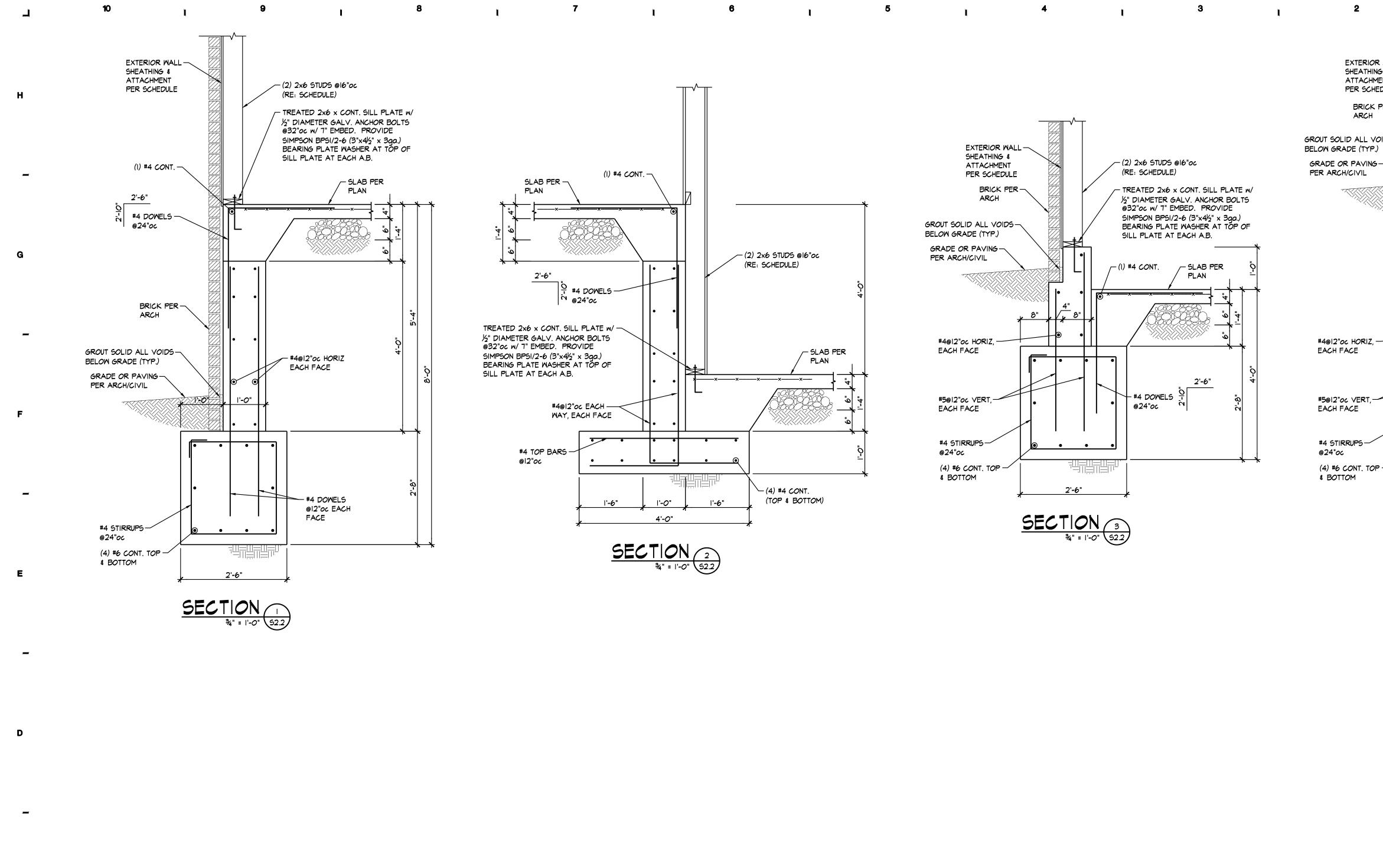


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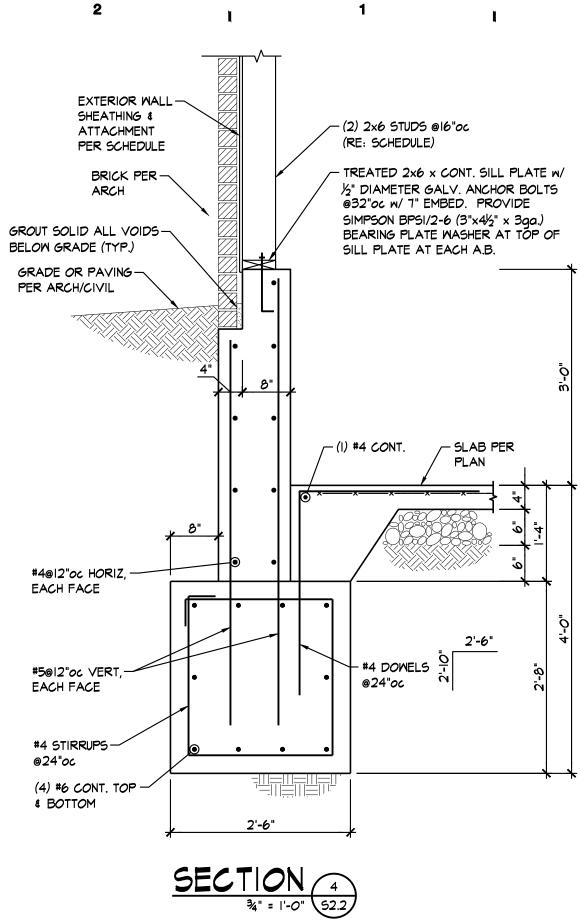
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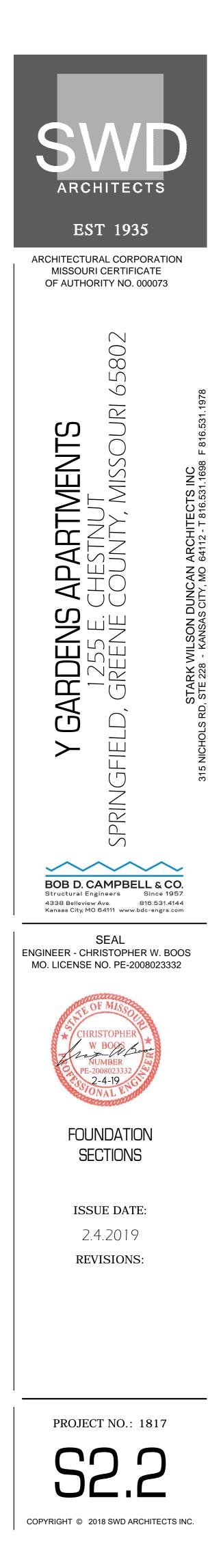


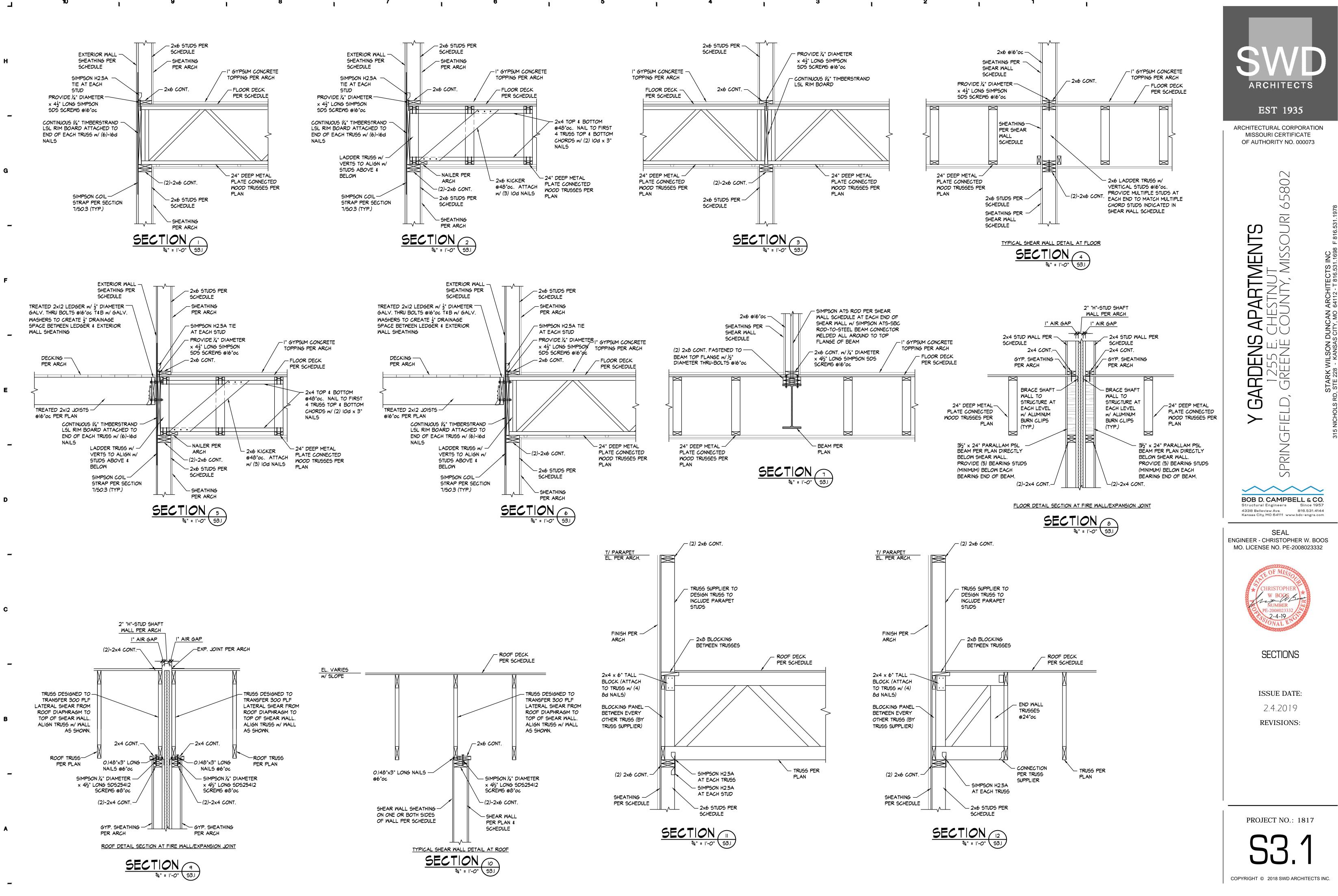
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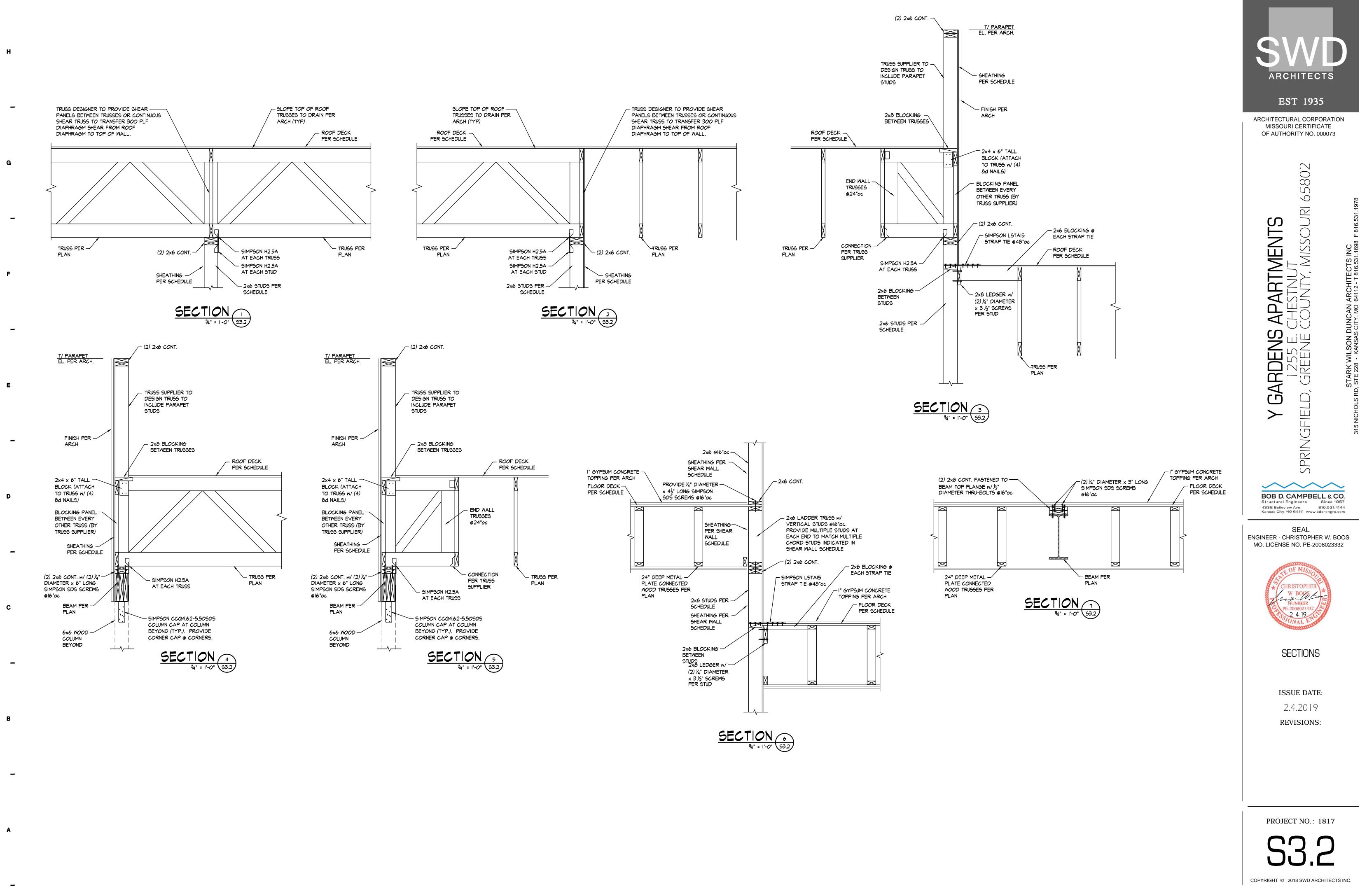
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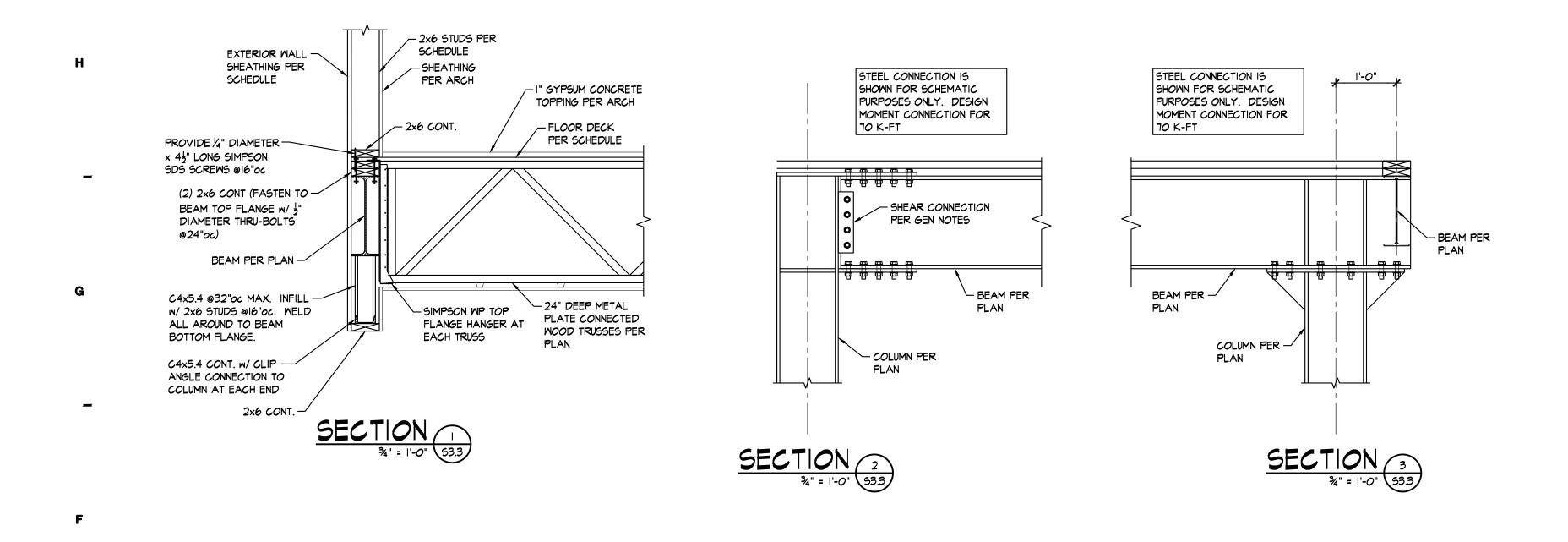
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PIPING	DUCTWORK	POWER EQUIPMENT	FIRE ALARM	A AMPS; AIR (COMPRESSED) A/C AIR CONDITIONING AF AMPERE FUSE
DIRECTION OF FLOW WNION FLANGE CONNECTION CAP ELBOW UP ELBOW DOWN TEE UP FLE DOWN PIPE REDUCER PIPE GUIDE PIPE ANCHOR EXPANSION JOINT SHUT-OFF VALVE CHECK VALVE BALANCING VALVE WITH PRESSURE PORTS TRIPLE DUTY VALVE STRAINER STRAINER STRAINER SOLENOID VALVE MANUAL AIR VENT SOLENOID VALVE PRESSURE REDUCING VALVE PRESSURE CAUGE THERMOMETER AIR OUTLET VACUM OUTLET NITROGEN OUTLET NITROUS OXIDE OUTLET NITROUS OXIDE OUTLET NITROUS OXIDE OUTLET NITROUS OXIDE OUTLET PIEOR SINK FDI FLOOR DRAIN	EQUIPMENT TYPE AND NUMBER PUMP LINEAR SLOT DIFFUSER FLEXIBLE DUCT NEGATIVE PRESSURE AIR DUCT UP POSITIVE PRESSURE AIR DUCT DOWN POSITIVE PRESSURE AIR DUCT DOWN POSITIVE PRESSURE AIR DUCT DOWN DUCT RISE OR DROP IN THE DIRECTION OF AIRFLOW RUMP ELBOW WITH TURNING VANES FLEXIBLE CONNECTION MANUAL BALANCE DAMPER FIRE DAMPER FIRE DAMPER FIRE/SMOKE DAMPER FIRE/	ELECTRICAL DISTRIBUTION PANEL SWITCHEOARD, OR MOTOR CONTROL PANEL BOARD LOAD CENTER METER J-BOX MOTOR DISCONNECT SWITCH COMBINATION DISCONNECT SWITCH AND MOTOR STARTER MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED D BELL HOME RUN CONCEALED CONDUIT CONCEALED CONDUIT CONCEALED CONDUIT MOREALED CONDUIT MIGS (WIRE NUMBER INDICATED) HI4'S (WIRE NUMBER INDICATED) EXPOSED CONDUIT CONDUIT TURNING DOWN CONDUIT TURNING UP	FIRE ALARM CONTROL PANEL FAT ANNUNCIATOR PANEL FAT FIRE ALARM POWER EXTENDER PULL STATION KNOX BOX CONTROL RELAY SIGNAL ZONE ADDRESSABLE MODULE 2' CONTROL ZONE ADDRESSABLE MODULE 2' GONTROL ZONE ADDRESSABLE MODULE 2' GONTROL ZONE ADDRESSABLE MODULE 2' GONTROL ZONE ADDRESSABLE MODULE 2' SINGLE STATION SMOKE DETECTOR 3' SYSTEM SMOKE DETECTOR 3' SYSTEM SMOKE DETECTOR 3' SYSTEM SMOKE DETECTOR 3' SYSTEM SMOKE DETECTOR 4' HEAT/THERMAL DETECTOR 4' HORNSTROBE 5' DUCT SMOKE DETECTOR 1' INDIVIDUAL ADDRESSABLE MONITOR 1' MAGNETIC DOOR HOLD 1' HORNSTROBE 2' SPEAKER/STROBE 1' SPEAKER 1' HORN 1' VALVE TAMPER SWITCH	AFC ABOVE FINISHED CELLING AFFA ABOVE FINISHED FLOOR AFF ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AC APPRESE INTERRIPTING CURRENT AL ALUMINUM APO BLONER COLLUNT BPP BACKELOW PREVENTER BUP BLONER COLLUNT BPP BACKELOW PREVENTER BPP BACKELOW PREVENTER BPF BECKELOW PREVENTER BPF BCOTTOM OF PIPE
 ROOF DRAIN HOSE BIBB FLOOR/GRADE CLEANOUT WALL CLEANOUT 			NURSE CALL	FD FIRE DAMPER, FLOOR DRAIN FF FINISHED FLOOR FGCO FINISHED GRADE CLEANOUT FL FLOW LINE FLA FULL LOAD AMPS F/C FIRE PROTECTION CONTRACTOR FTU FAN TERMINAL UNIT FVNR FULL VOLTAGE, NON-REVERSING
∞ IIII OF LINE CLEANOUT	Image: Construction of the second constructi	WIRING DEVICES & OUTLETS	Image: Partient NURSE CALL BEDSIDE STATION-SINGLE Partient NURSE CALL BEDSIDE STATION-DOUBLE Partient Partient Partient Partient Partient Partient Partient Partient Partient Partient Partient Partient Partient Partient Emergency Pull cord Station Partient Partient Bed Interface-37 Pin connector Partient Duty Station Partient Duty Station Partient Dome Light Partient Code Blue PushButton Station Partient Emergency Staff Station	G NATURAL GAS G/C GENERAL CONTRACTOR GFI GROUND FAULT INTERRUPTER GND GROUND GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GW GREASE WASTE HB HOSE BIBB HCR HOT/CHILLED WATER RETURN HCS HOT/CHILLED WATER SUPPLY HD HEAD, HUB DRAIN HOA HAND-OFF-AUTOMATIC HP HEAT PUMP HPC HIGH PRESSURE CONDENSATE HPR HEAT PUMP SUPPLY, HIGH PRESSURE STEA HIGH PRESSURE SODIUM HIGH PRESSURE SODIUM HTG HEAT ING HTR HEATING HTR HEATING HTR HEATER
PLUMBING GREASE LINE-ABOVE GRADE GREASE WASTE LINE-ABOVE GRADE WASTE LINE-BELOW GRADE WASTE LINE-BELOW GRADE VENT LINE DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC TEMPERED HOT WATER DOMESTIC HOT WATER RECIRC. I40 DEGREE DOMESTIC HOT WATER VENT THROUGH ROOF NOTE	FM FLOW METER LIGHT TRACK WITH LIGHT TYPES AS NDICATED NOICATES DIRECTION FLUORESCENT FIXTURE, ARROW INDICATES DIRECTION FLUORESCENT FIXTURE AND TYPE Image: State of the state	●ISOLATED GROUND DUPLEX RECEPTACLE●ISOLATED GROUND QUAD RECEPTACLE●WALL MOUNTED PHONE● $\Phi^{48} \checkmark^{48}$ CENTER OF DEVICE AT 48" A.F.F.●●●DEVICE ON EMERGENCY POWER♥DATA OUTLET♥TELEPHONE/DATA OUTLET↓CABLE T.V. OUTLET↓SURFACE RACEWAY\$SWITCH, SPST U.N.O.\$^2SWITCH, DPST\$^5FUSESTAT\$^33-WAY SWITCH\$^44-WAY SWITCH	COMMUNICATIONS Image: Speaker Horn-Projection type Image: Speaker Image: Speaker Image: Volume control	HWS HOT WATER SUPPLY ID INSIDE DIAMETER IE INVERT ELEVATION IG ISOLATED GROUND IN. WC INCHES OF WATER COLUMN INC. INCANDESCENT komil IOOO CIRCULAR MILS KV KILOVOLT KVA KILOVOLT-AMPS KVAR KILOVOLT-AMPS REACTIVE KWH KILOWATT KWH KILOWATT KWH KILOWATT-HOUR L LAVATORY LAT LEAVING AIR TEMPERATURE LDB LEAVING DRY BULB LF LINEAR FEET LP LOW PRESSURE LPG LOW PRESSURE LPG LOW PRESSURE STEAM CONDENSATE LPG LIQUIFIED PETROLEUM GAS (PROPANE) LPS LOW PRESSURE STEAM LRA LOCKED ROTOR AMPS LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE MBH LOOO BTU PER HOUR
● SPRINKLER HEAD (PENDANT) ● SPRINKLER HEAD (SIDEWALL) ● SPRINKLER HEAD (UPRIGHT) ● FIRE PROTECTION PIPING ◆ SIAMESE CONNECTION	 EMERGENCY LIGHT FIXTURE WALL MOUNTED FIXTURE WALL SCONCE WALL MOUNTED FIXTURE WALL MOUNTED FIXTURE POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN) TENON MOUNTED POLE LIGHT IN-GROUND LIGHT FIXTURE BOLLARD LIGHT FIXTURE EXIT LIGHT CLG. MNTD. (SGL. FACE) EXIT LIGHT CLG. MNTD. (DBL. FACE) EXIT LIGHT WALL MNTD. (SGL. FACE) EXIT LIGHT WALL MNTD. (SGL. FACE) EXIT/EMERGENCY LIGHT EMERGENCY LIGHT CEILING FAN 	SDDIMMER SWITCHSJJAMB SWITCHSMMOTOR RATED SWITCHSWPSWITCH WITH WEATHERPROOF COVERSKKEYED SWITCHImage: Strain	SECURITY Image: Closed circuit television camera Image: Closed circuit televitelevite	M/C MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPACITY MCC MOTOR CONTROL CENTER MCM IOOO CIRCULAR MILS MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MH MANUFACTURER MLO MAIN LUGS ONLY MPC MEDIUM PRESSURE CONDENSATE MPS MEDIUM PRESSURE STEAM MS MOTOR STARTER MSB MAIN SWITCHBOARD MTD MOUNTED MAU MAKE-UP AIR UNIT N NITROGEN N/A NOT APPLICABLE NC NOTSE CRITERIA NFWH NON-FREEZE WALL HYDRANT NIC NOT IN CONTRACT NO NITROUS OXIDE N/O NITROUS OXIDE N/O NORMALLY OPEN, NORMALLY CLOSED

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A (COMPRESSED) ITIONING USE VISHED CEILING & EVACUATION ASSISTANCE VISHED FLOOR VISHED GRADE LING UNIT VITERRUPTING CURRENT SURE DROP C TRANSFER SWITCH T TE I WIRE GAUGE COIL UNIT A PREVENTER RESEPONER IISHED FLOOR F DUCT F PIPE F STRUCTURE HERMAL UNITS PER HOUR IRANSFORMER LEVISION SYSTEM AIR VOLUME IRCUIT TELEVISION ATE DRAIN TOR FURNISHED, CONTRACTOR C CARBON MONOXIDE DOXIDE TOWER RETURN TOWER RETURN TOWER RETURN TOWER RETURN VATER SUPPLY CONDENSING UNIT NIT HEATER TER WATER RETURN VATER SUPPLY GITAL CONTROL E FLXTURE UNITS OLE, DOUBLE-THROW OLE, SINGLE-THROW OLE, SINGLE-THROW OLE, SINGLE-THROW ORF BULB TAN	O OA OCDOFCID PA WAS PCDP PH WAS PCDP PH PHER PS I A G PT TY RARRPEV RARRER SAN WAS SOF STAN SOF STAN	OXYGEN OUTSIDE AIR ON CENTER ONSIDE DIAMETER ONSIDE DIAMETER ONSIDE DIAMETER ONSIDE DIAMETER ONSIDE DIAMETER ONSIDE FURNISHED, CONTRACTOR INSTALLED OVERFLOW ROOF DRAIN PIPE ANCHOR PRIMARY CHILLED WATER RETURN PRESSURE DROP (FEET OF WATER) PHASE PRIMARY HEATING WATER SUPPLY PANEL PRESSURE REDUCING VALVE PULSE START POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH-ABSOLUTE POUNDS PER SQUARE INCH-GAUGE POTENTIAL TRANSFORMER QUANTITY REFRIGERANT RETURN AIR REINFORCED CONCRETE PIPE ROOF DRAIN REVISION RETURN FAN RELATIVE HUMIDITY RUNNING LOAD AMPS REVOLUTIONS PER MINUTE ROOF TOP UNIT SINK, STEAM SUPPLY AIR SANITARY SEVER SECONDARY CHILLED WATER RETURN SECONDARY CHILLED WATER SUPPLY SMOKE DAMPER, STORM DRAIN SECONDARY CHILLED WATER RETURN SECONDARY CHILLED WATER SUPPLY SMOKE DAMPER, STORM DRAIN SECONDARY CHILLED WATER SUPPLY SMOKE SINK, STAINLESS STEEL STORM DRAIN, SOUND TRAP, STEAM TRAP SOUND TRANSMISSION CLASS STEAM SOFT WATER SUTCHBOARD TEMPERED WATER TEMPERATURE GAUGE TOTAL DYNAMIC HEAD TOTAL DYNAMIC HEAD TOTAL DYNAMIC HEAD TOTAL DYNAMIC HEAD TOTAL DYNAMIC HEAD TOTAL DYNAMIC HEAD TOTAL STATIC PRESSURE THERMOSTAT
N JOINT PPRESSION FAST RESPONSE STATIC PRESSURE TO REMAIN WET BULB WATER COOLER RM ANNUNCIATOR RM CONTROL PANEL PBY OTHERS EANOUT UNIT PER, FLOOR DRAIN FLOOR GRADE CLEANOUT AMPS TECTION CONTRACTOR INAL UNIT TAGE, NON-REVERSING SAS CONTRACTOR AULT INTERRUPTER PER HOUR PER HOUR PER MINUTE WATER RETURN ED WATER RETURN ED WATER RETURN ED WATER SUPPLY DRAIN -AUTOMATIC SURE CONDENSATE PERTURN SUPPLY, HIGH PRESSURE STEAM, SURE SODIUM T	TL TU UF UF UF UF UF UF UF UF UF UF UF UF UF	TWISTLOCK TERMINAL UNIT UNDER FLOOR UNDER GROUND UNIT HEATER UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VACUUM VOLTS ALTERNATING CURRENT VARIABLE AIR VOLUME VITRIFIED CLAY PIPE VOLUME DAMPER VARIABLE FREQUENCY DRIVE VENT THROUGH ROOF WATER SERVICE, WATTS WET BULB WALL CLEANOUT WATER PRESSURE DROP WEATHERPROOF WATERTIGHT, WEIGHT TRANSFORMER EXPLOSION-PROOF
R RETURN R SUPPLY AMETER EVATION GROUND		GENERAL
WATER COLUMN CENT CULAR MILS -AMPS -AMPS REACTIVE -HOUR Y AIR TEMPERATURE 2RY BULB		HEAVY LINEWEIGHT INDICATES NEW WORK CONNECT NEW TO EXISTING LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED POINT OF DISCONNECT FROM EXISTING
SURE SURE STEAM CONDENSATE PETROLEUM GAS (PROPANE) SURE STEAM COTOR AMPS NET BULB NATER TEMPERATURE PER HOUR AL CONTRACTOR IRCUIT AMPACITY DNTROL CENTER CULAR MILS D DAMPER		CONSTRUCTION NOTE REVISION NUMBER SECTION CUT THROUGH DRAWING AREA OF ENLARGEMENT
RIBUTION PANEL URER METAL HALIDE 5 ONLY RESSURE CONDENSATE RESSURE STEAM ARTER CHBOARD AIR UNIT	TH NOT A	- SHEET WHERE ENLARGED PLAN IS DRAWN HIS IS A MASTER LEGEND. LL SYMBOLS, ABBREVIATIONS, ARE USED ON THE DRAWINGS.
ICABLE TERIA ZE WALL HYDRANT NTRACT XIDE COREN NORMALLY CLOSED		



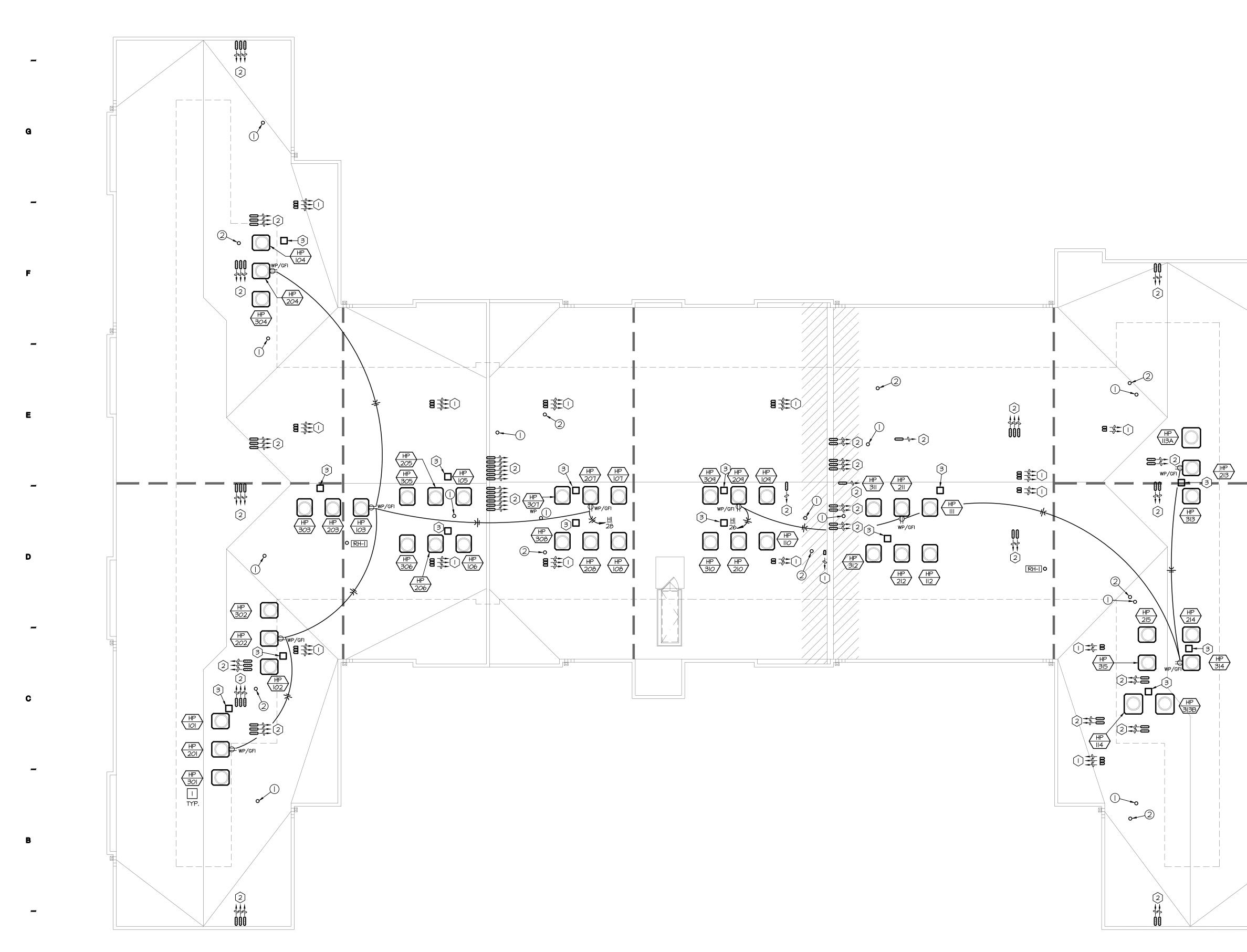
ARCHITECTS EST 1935 ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073 S APARTNENTS CHESTNUT COUNTY, MISSOURI 65802 STARK WILSON DUNCAN ARCHITECTS INC , STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 **GARDENS** 1255 E. (1255 E. (12 SPRINGFIELD, \succ SEAL ENGINEER - CASEY JOHN STEINER MO. LICENSE NO. PE-2009035182



SYMBOLS LEGEND

ISSUE DATE: 02.04.2019 **REVISIONS:**





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GENERAL NOTES:

- A. REFERENCE SHEET MI.I FOR MECHANICAL GENERAL NOTES.B. REFERENCE SHEET PO.I FOR PLUMBING GENERAL NOTES.
- C. REFERENCE SHEET E2.1 FOR POWER GENERAL NOTES.

MECHANICAL PLAN NOTES:

- CLOTHES DRYER ROOF VENT. REFER TO DETAIL ON M5.I.
 BATHROOM EXHAUST VENT. REFER TO DETAIL ON M5.I. ROUTE VENT IN ATTIC SPACE AS SHOWN.
- PROVIDE WEATHER TIGHT CURB FOR REFRIGERANT PIPE ROUTING. REFER TO CONDENSING UNIT MOUNTING DETAIL ON M5.1

PLUMBING PLAN NOTES:

- I. 3" VENT THRU ROOF.
- 2. 3" PVC PIPE FOR RADON SUPPRESSION SYSTEM.

ELECTRICAL PLAN NOTES:

I. CIRCUIT HEAT PUMP TO PANELBOARD IN UNIT THAT IT SERVES. REFER TO ELECTRICAL PANELBOARD SCHEDULES AND MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTION SCHEDULE.

RADON CONTROL SYSTEM NOTES:

 INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
 OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



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MPE ROOF PLAN

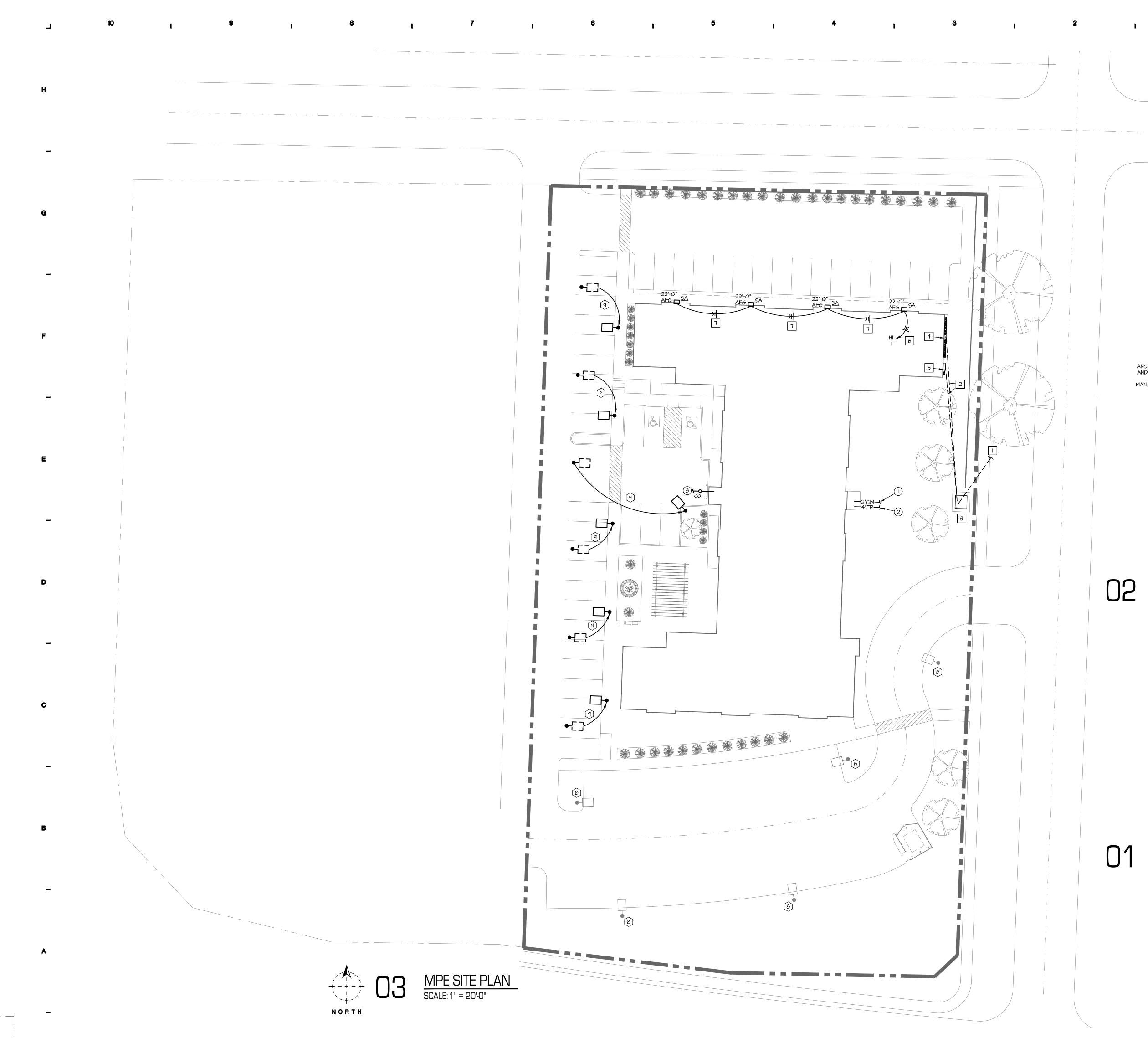
ISSUE DATE: 02.04.2019

REVISIONS:





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GENERAL NOTES: A. REFERENCE SHEET E2.1 FOR POWER GENERAL NOTES.

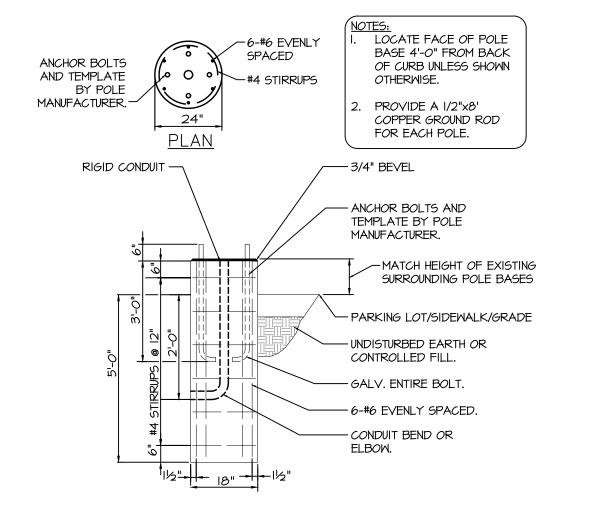
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ELECTRICAL PLAN NOTES:

- I. PROVIDE PRIMARY CONDUITS PER UTILITY COMPANY STANDARDS. REFERENCE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.
- 2. PROVIDE SECONDARY CONDUIT. REFERENCE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION. 3. PAD MOUNTED UTILITY TRANSFORMER. PROVIDE CONCRETE PAD
- PER UTILITY COMPANY STANDARDS. 4. METER CENTER. REFERENCE ELECTRICAL RISER DIAGRAM.
- 5. C.T. CABINET AND HOUSE METER. REFERENCE ELECTRICAL RISER DIAGRAM. 6. HOMERUN WITH (2) #10 & #10 GROUND WIRE IN A 3/4" CONDUIT.
- ROUTE THROUGH TIME CLOCK AND PHOTOCELL. REFERENCE EXTERIOR LIGHTING CONTROL SCHEMATIC THIS SHEET. 7. ROUTE (2) #10 AND (1) #10 GROUND WIRE IN 3/4" CONDUIT.
- 8. EXISTING POLE LIGHT FIXTURE TO REMAIN.
- 9. EXISTING POLE LIGHT FIXTURE TO BE RELOCATED AS SHOWN. EXTEND CIRCUITRY AS REQUIRED TO NEW LOCATION.

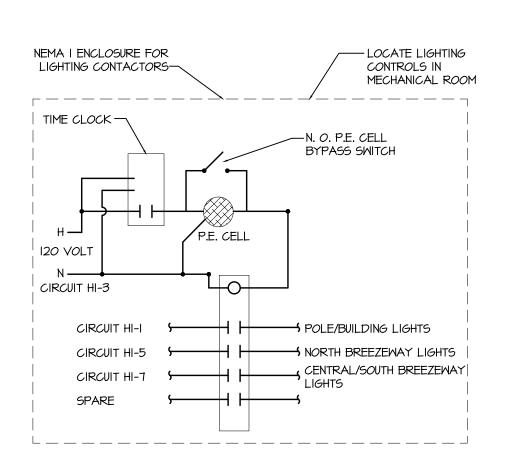
PLUMBING PLAN NOTES:

- I. NEW 2-1/2" DOMESTIC COLD WATER SERVICE LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2. NEW 4" FIRE PROTECTION LINE. REFER TO CIVIL DRAWINGS
- FOR CONTINUATION. 3. NEW 6" SANITARY DRAIN LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.



02

POLE BASE DETAIL SCALE: Not to Scale



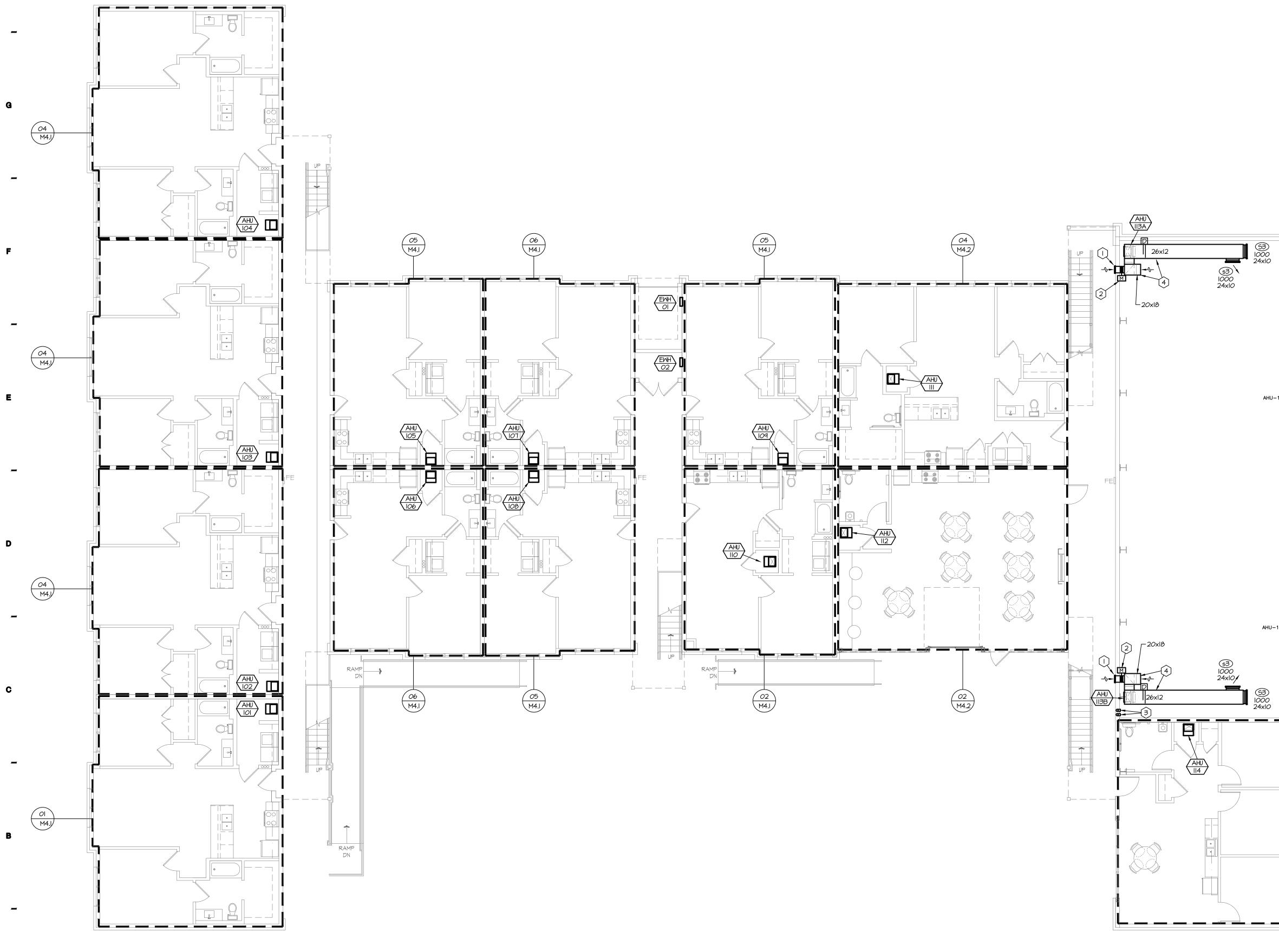
EXTERIOR LIGHTING CONTROL SCHEMATIC SCALE: Not to Scale



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FIRST FLOOR MECHANICAL PLAN SCALE: 1/8" = 1'-0"

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GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES. F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND
- WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF I 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER AS RECOMMENDED BY MANUFACTURER.
- H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.
- I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES
- SHALL BE NECK SIZE UNLESS NOTED OTHERWISE. J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR
- DIMENSION.
- K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.
- L. <u>EXHAUST THROUGH ROOF</u> IBC 2015 SECTION 717.6.1 EXCEPTION: A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS. (SEE 5 REQUIREMENTS LISTED UNDER 717.6.1 EXCEPTIONS)

PLAN NOTES:

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AHU-113A

AHU-113B

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- I. PROVIDE 12 INCH WALL CAP FOR OUTSIDE AIR INTAKE. 2. PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR TO 315 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF.
- 3. PROVIDE 4" EXHAUST FOR FUTURE USE. 4. ROUTE TIGHT TO GYP. CEILING.



ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE

OF AUTHORITY NO. 000073

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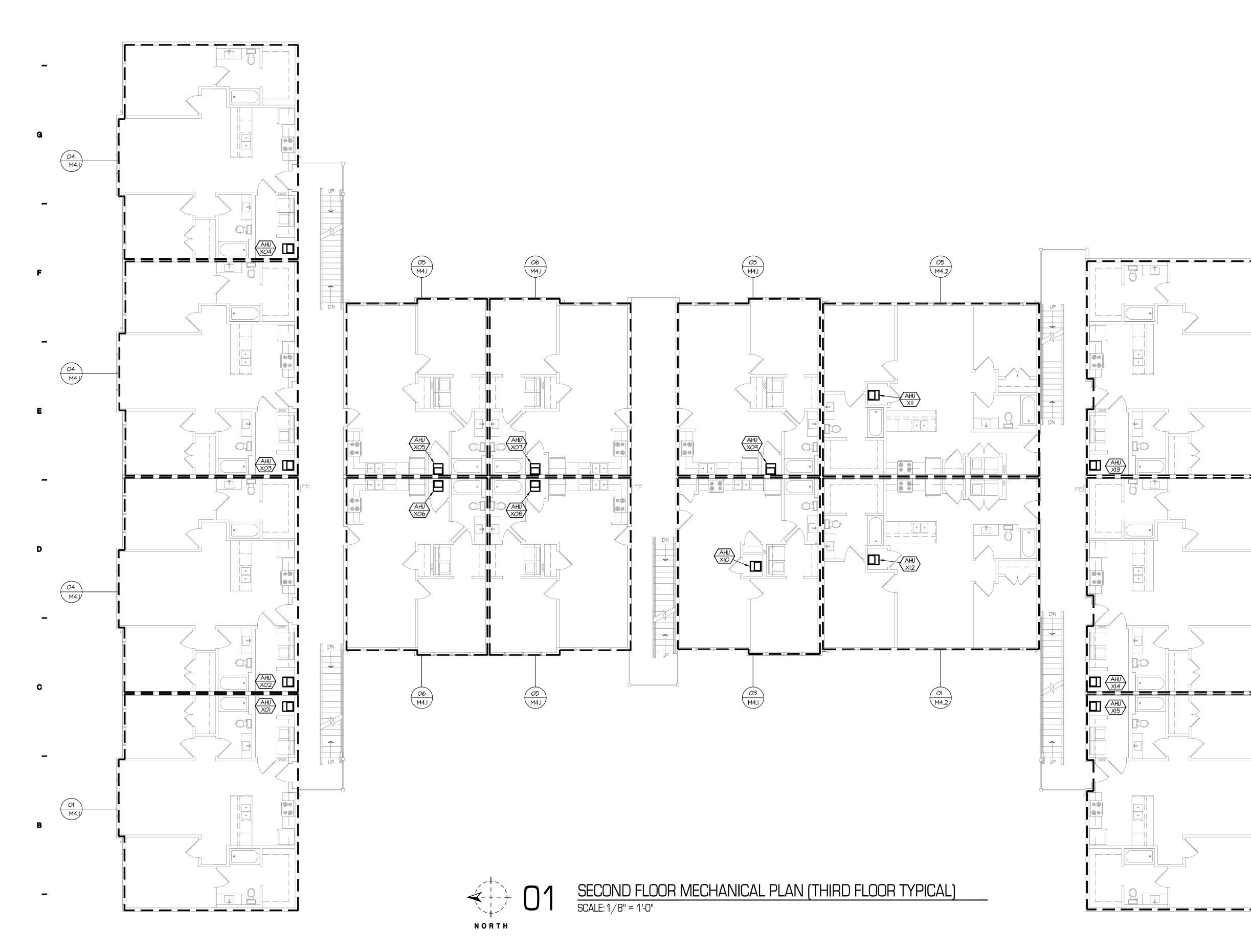
FIRST FLOOR MECHANICAL PLAN

ISSUE DATE:

02.04.2019 **REVISIONS:**







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GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
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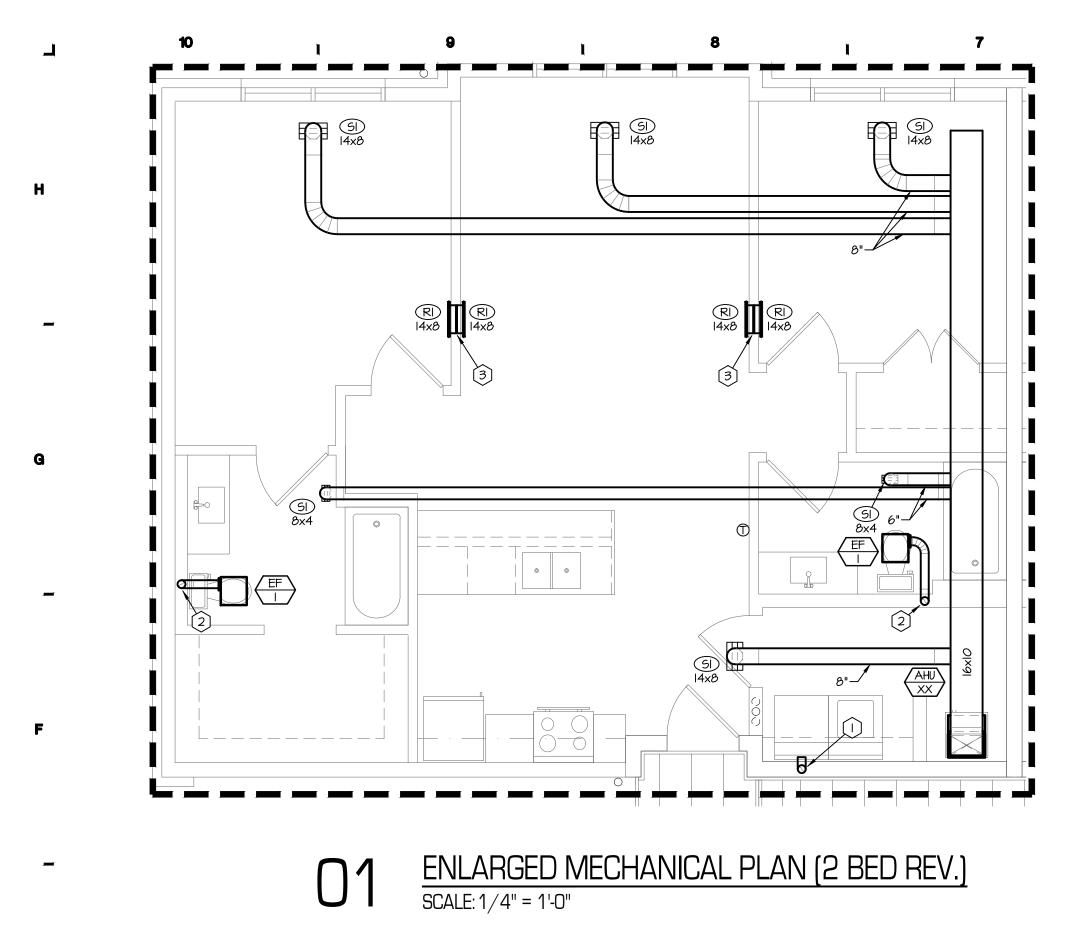
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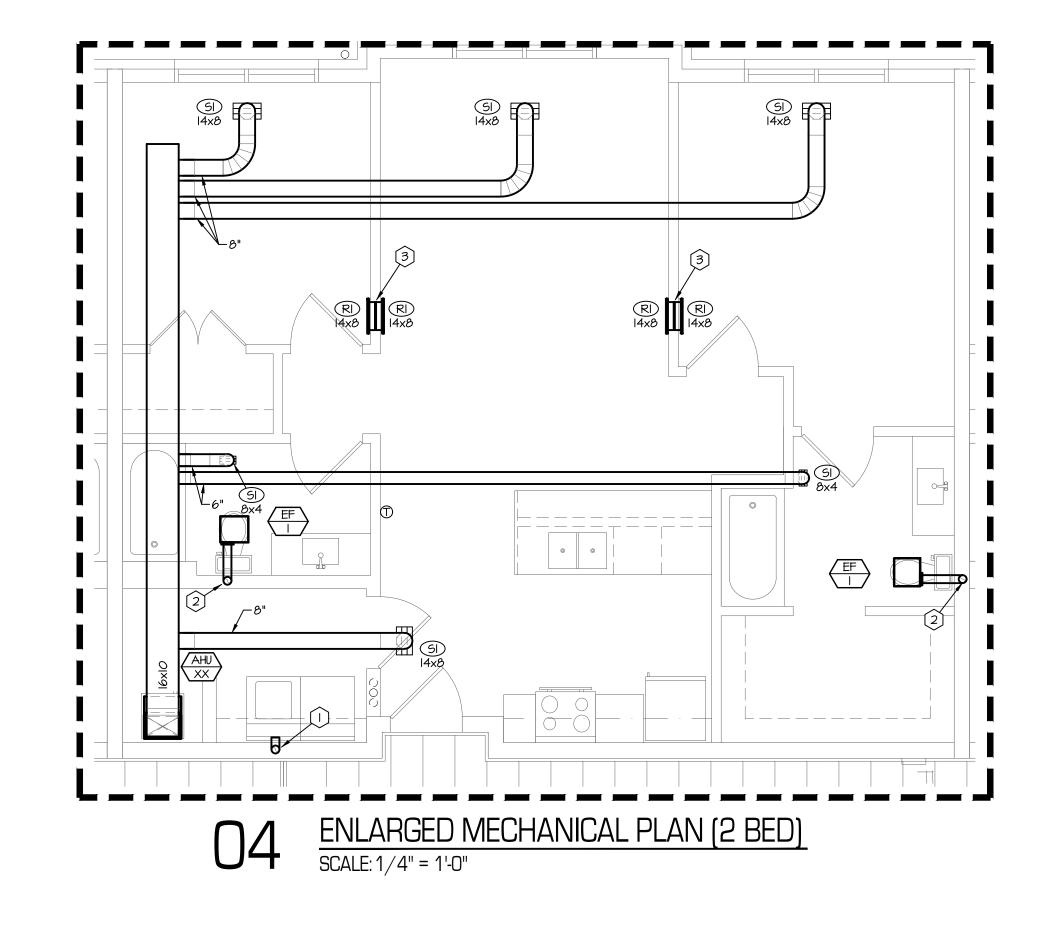
ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073





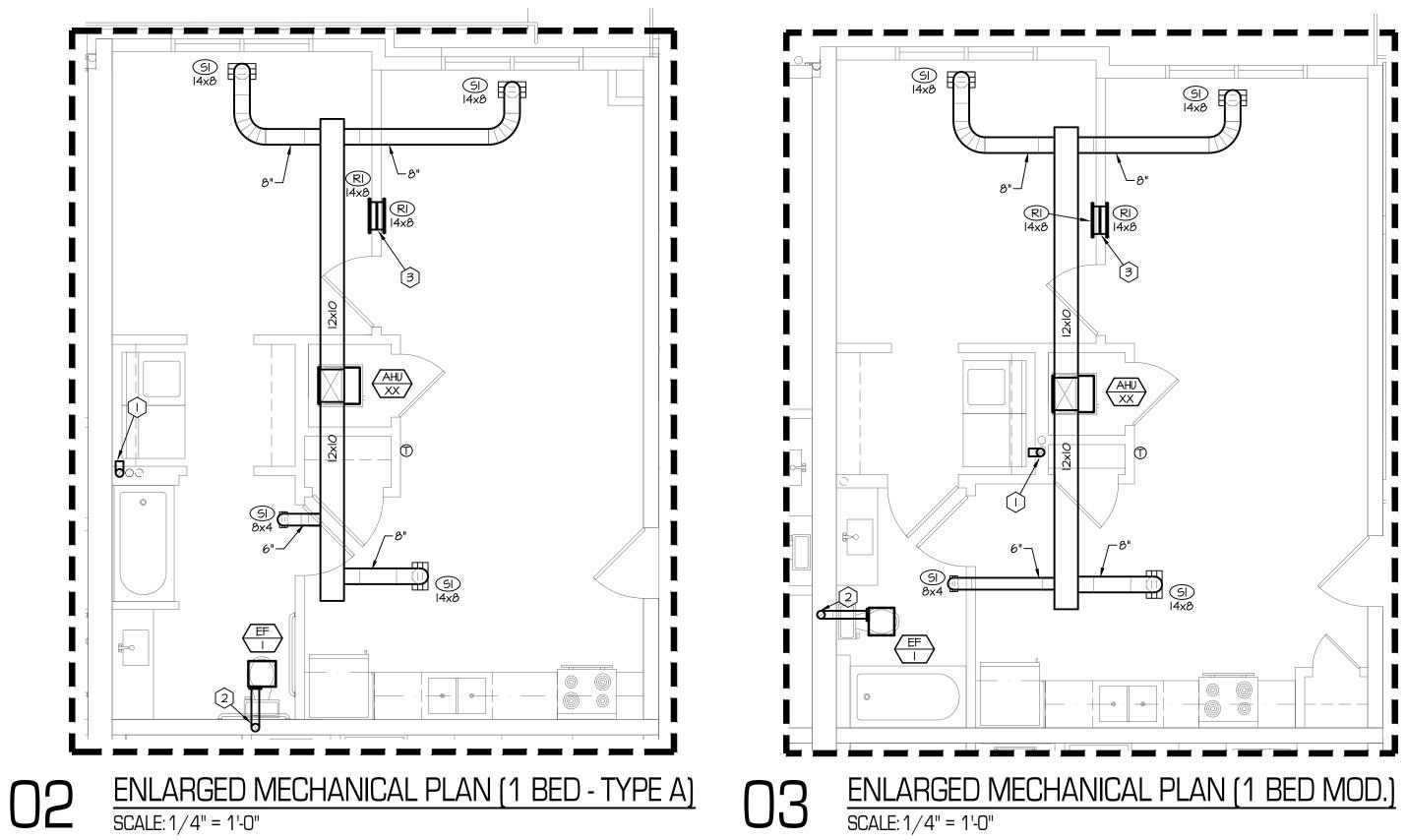
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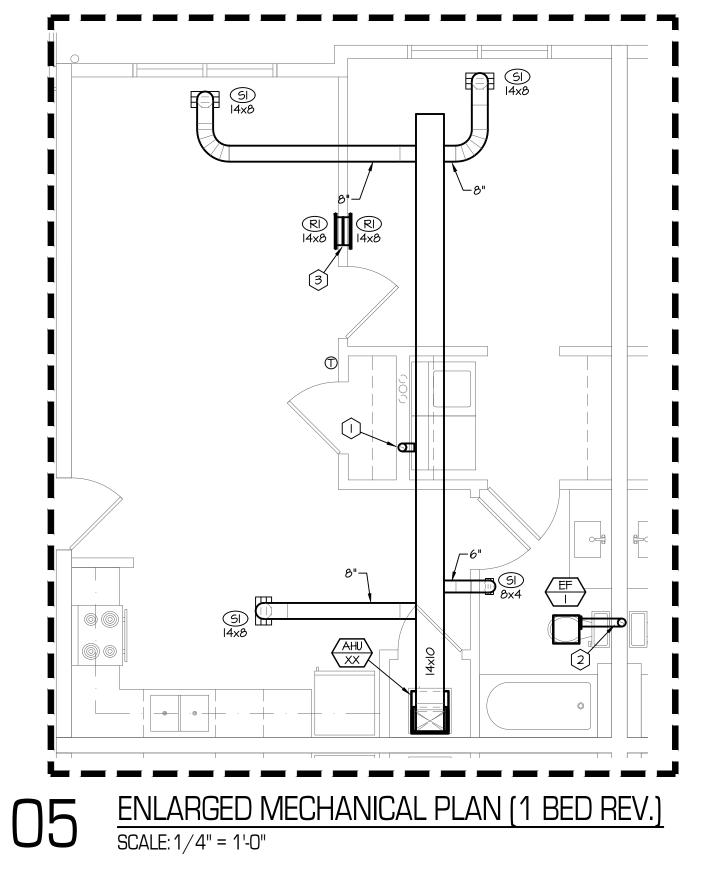


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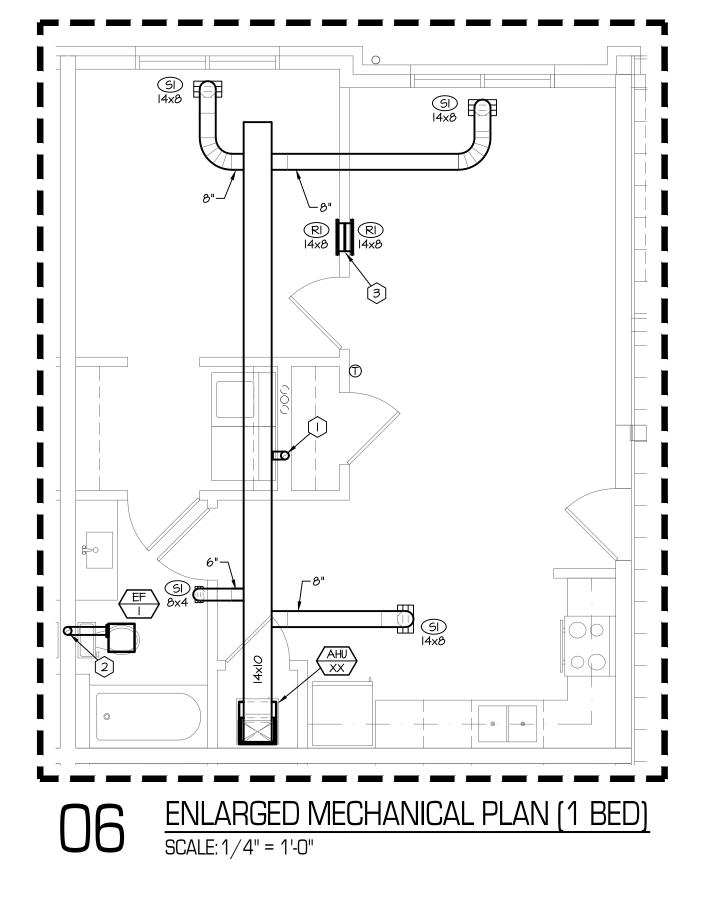


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- SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
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PLAN NOTES:

- I. 4 INCH DRYER VENT UP. 2. 4 INCH BATHROOM EXHAUST UP.
- 3. INSTALL RETURN GRILLE HIGH ON WALL IN LIVING SPACE AND LOW ON WALL IN BEDROOM.





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ISSUE DATE: 02.04.2019





PROJECT NO.: 1803



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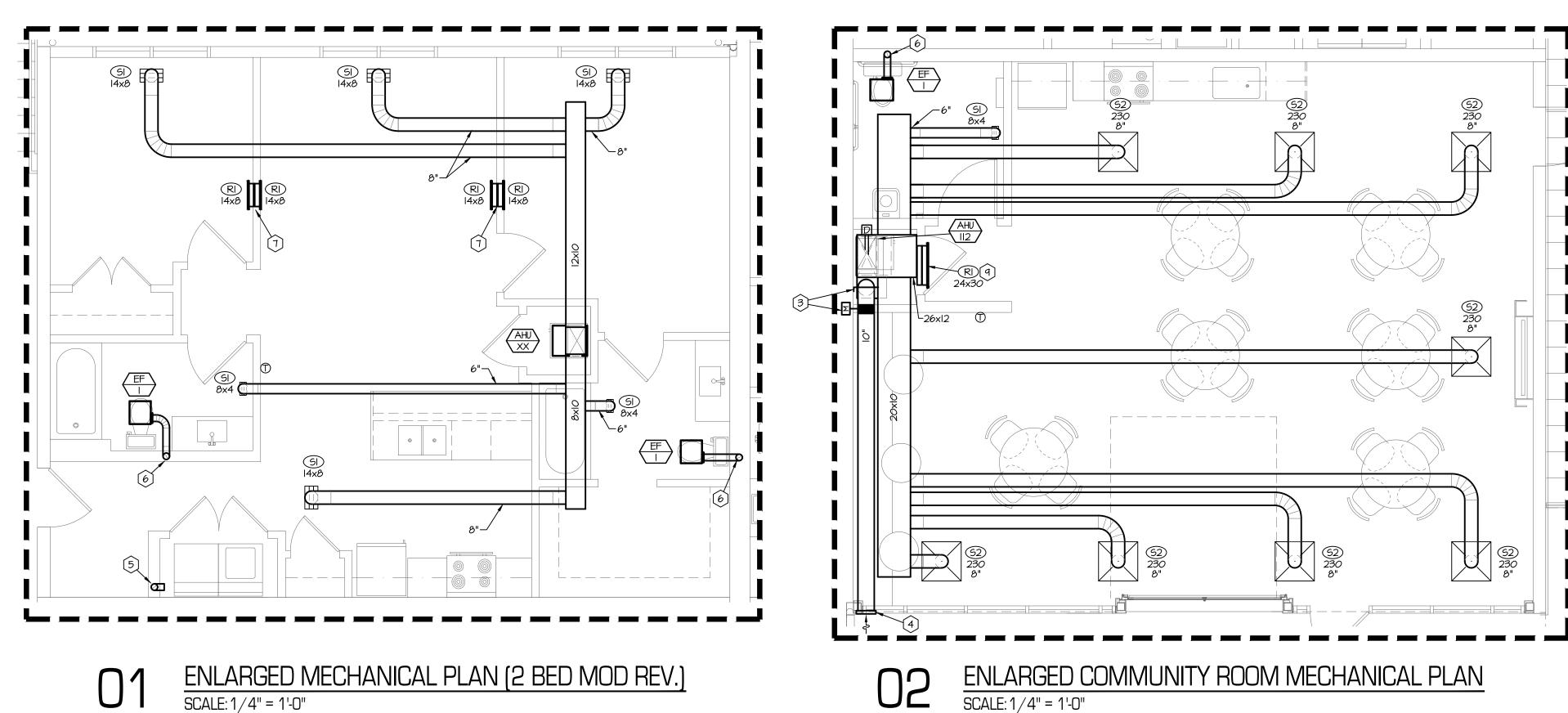
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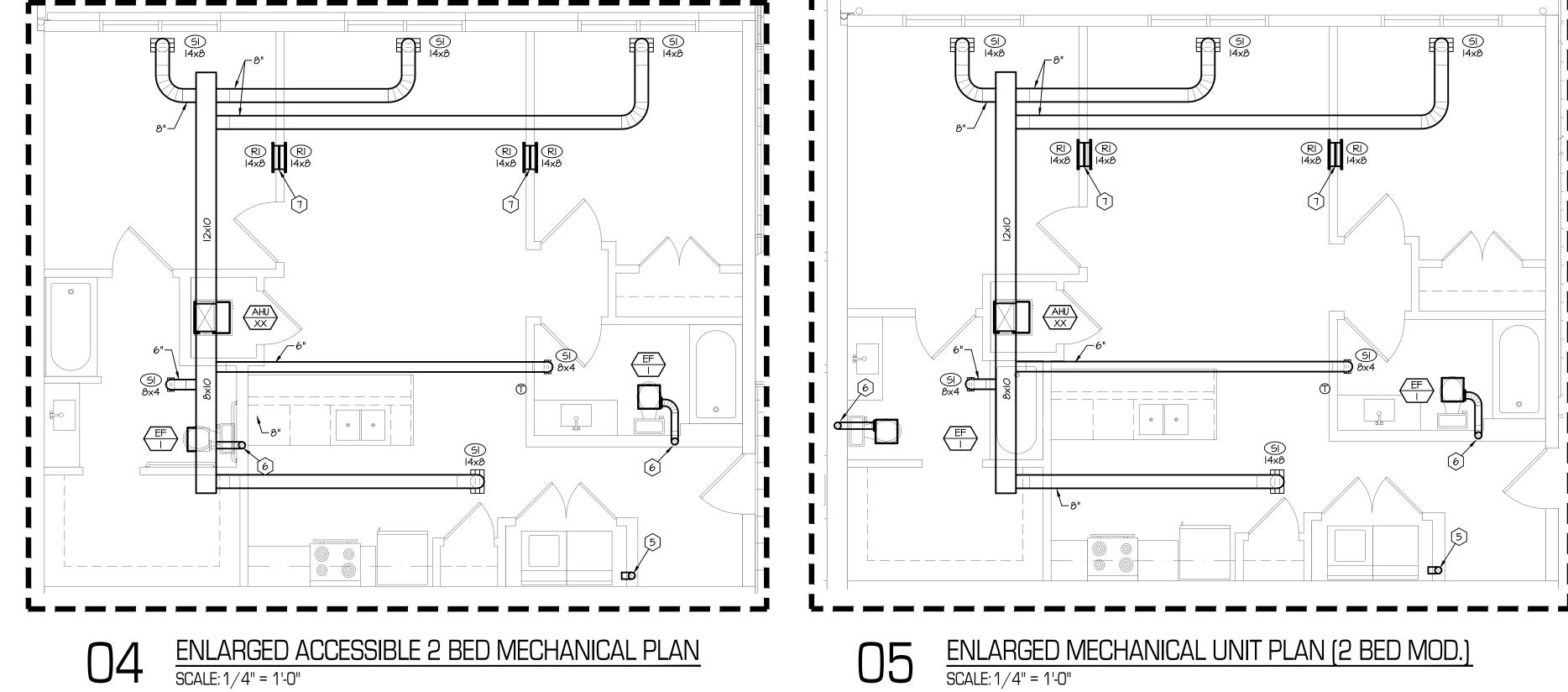
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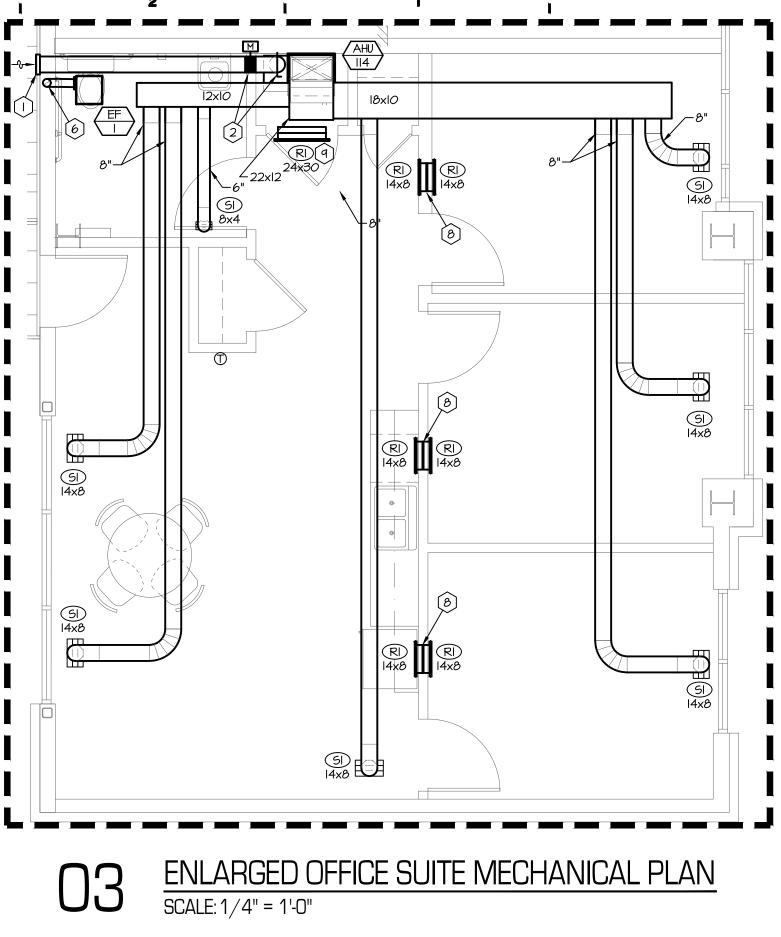
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SCALE: 1/4" = 1'-0"

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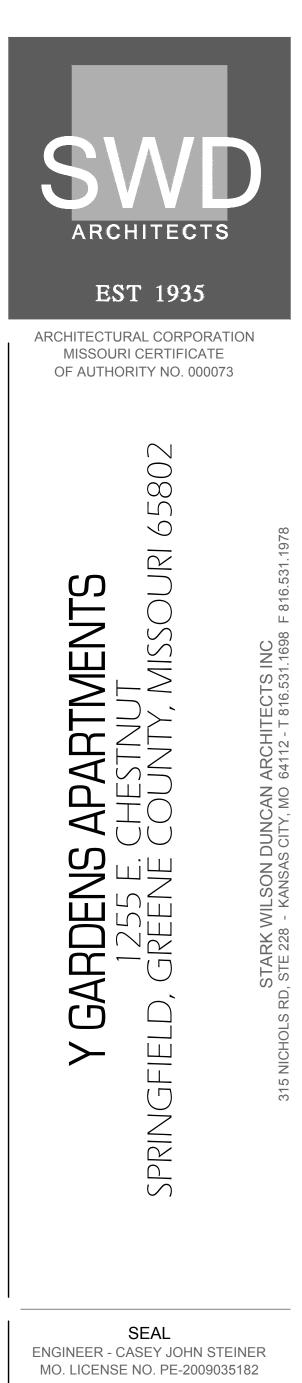
PLAN NOTES:

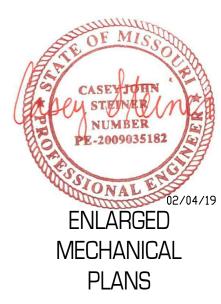
- WILL BIRDSCREEN.
- PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR DAMPER TO 110 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF. DAMPER TO 195 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF.
- 3. PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR 4. PROVIDE IO INCH WALL CAP FOR OUTSIDE AIR INTAKE.
- PROVIDE WITH BIRDSCREEN.
- 5. 4 INCH DRYER VENT UP. 6. 4 INCH BATHROOM EXHAUST UP.
- 7. INSTALL RETURN GRILLE HIGH ON WALL IN LIVING SPACE AND LOW ON WALL IN BEDROOM.
- 8. INSTALL RETURN GRILLE HIGH ON WALL IN CORRIDOR AND LOW ON WALL IN OFFICE ..
- 9. INSTALL RETURN GRILLE CENTERED ABOVE CLOSET DOOR.

PROVIDE & INCH WALL CAP FOR OUTSIDE AIR INTAKE. PROVIDE

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ISSUE DATE:

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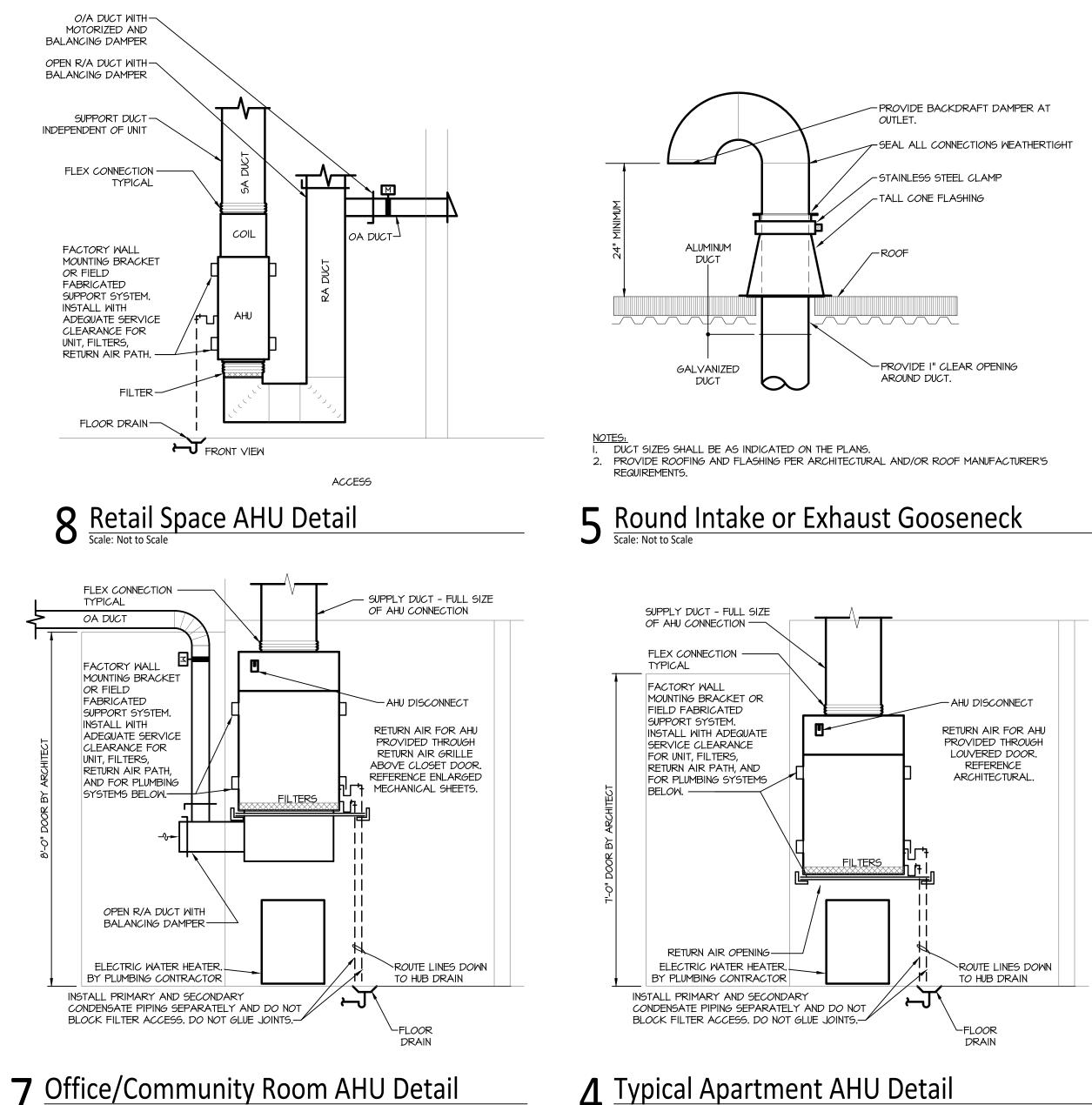


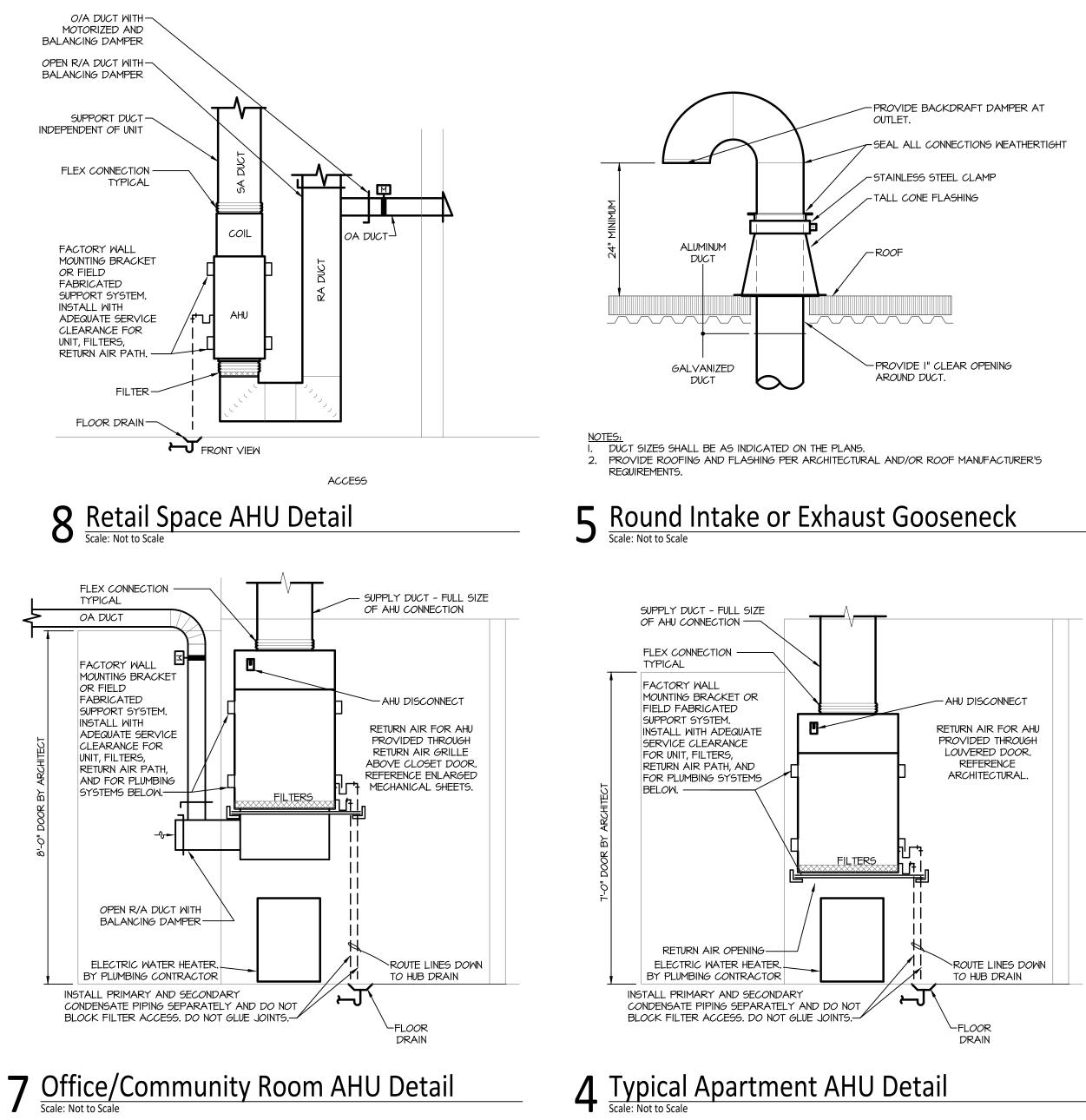
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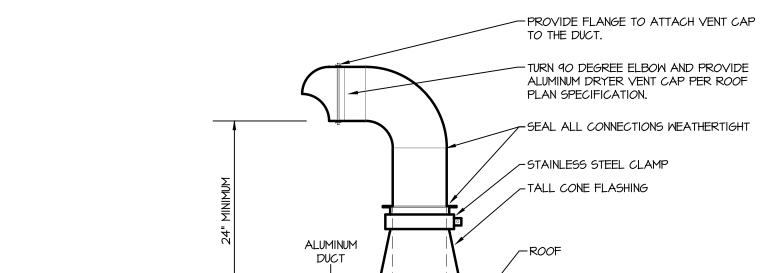
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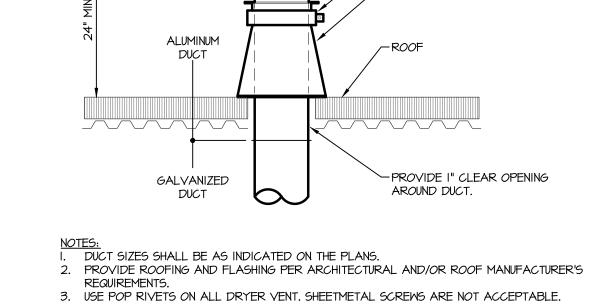
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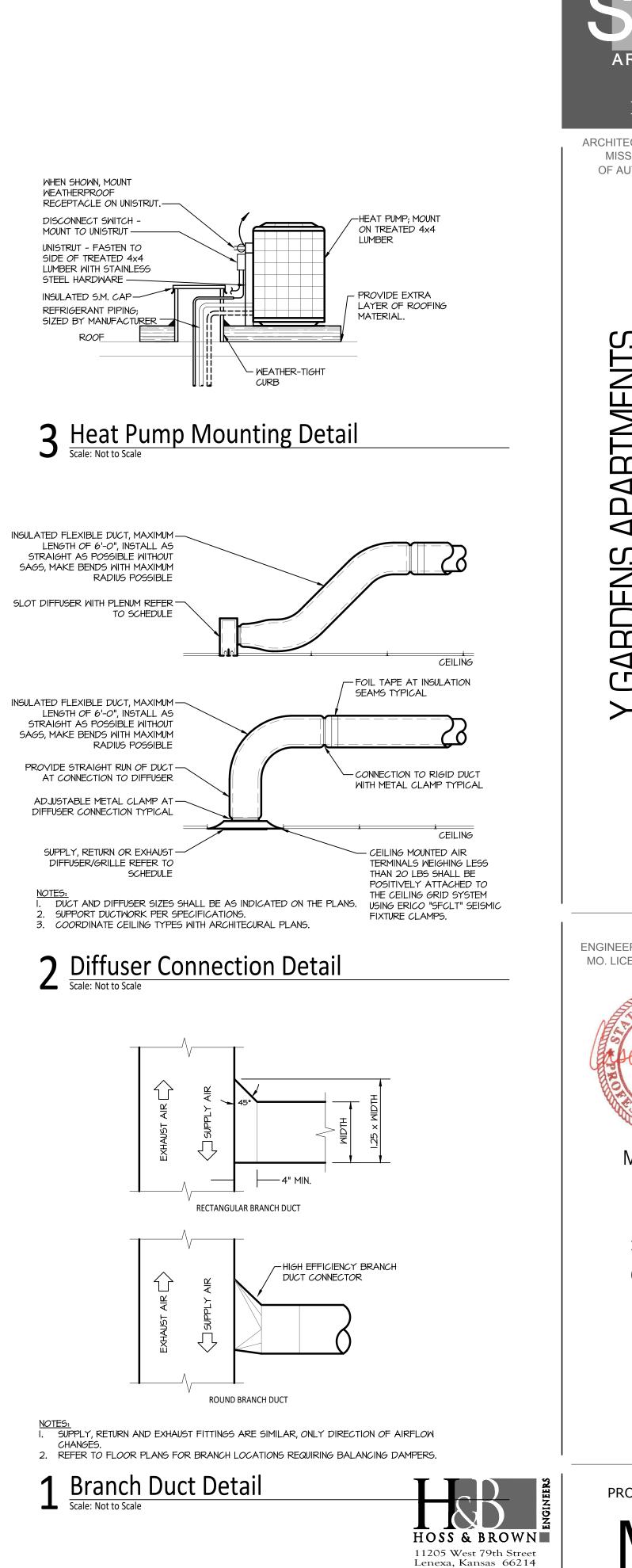
4. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW.

6 Clothes Dryer Roof Vent Detail

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MECHANICAL DETAILS

ISSUE DATE: 02.04.2019 **REVISIONS:**

PROJECT NO.: 1803



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H&B Project Number: 1820640

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- ELECTRIC WALL HEATER _
- EWH-02 NOTES:

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MARK MANUFACTURER MODE CWH3508 EMH-01 Q-MARK Q-MARK CWH3508 PROVIDE WITH MANUFACTURER'S SURFACE MOUNTING FRAME. GENERAL NOTES (APPLY TO ALL ABOVE): PROVIDE WITH INTEGRAL THERMOSTAT AND DISCONNECTING MEANS

SPLIT SYSTEM - AIR HANDLING & HEAT PUMP UNIT SCHEDULE												
MARK	MANUFACTURER	MODEL	COOL MBH	CFM	ESP	V/PH	MCA	моср	NOMINAL KW	ACTUAL KW	V/PH	
AHU-IOI	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	
AHU-102	TRANE	TEM4AOB2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	
AHU-103	TRANE	TEM4AOB2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	
AHU-104	TRANE	TEM4AOB2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	
AHU-105	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-106	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-107	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-108	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-109	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-IIO	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	
AHU-III	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	
AHU-112	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	14.4	208/1	
AHU-113A	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	14.4	208/1	
AHU-113B	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	4.4	208/1	

				SUPPLY	FAN				ELEC HEAT					HEAT PUMP					
ARK	MANUFACTURER	MODEL	COOL		500	N/DU			NOMINAL	ACTUAL				MARK	MODEL	V/DU			NOTES
			MBH	CFM	ESP	V/PH	MCA	MOCP	KW	KW	V/PH	MCA	MOCP	MARK	MODEL	V/PH	MCA	MOCP	<u> </u>
HU-IOI	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-101	4TWR4024	208/1	4	25	1, 2, 3, 4
10-102	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-102	4TWR4024	208/1	14	25	1, 2, 3, 4
10-103	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-103	4TWR4024	208/1	4	25	1, 2, 3, 4
U-104	TRANE	TEM4AOB2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-104	4TWR4024	208/1	4	25	1, 2, 3, 4
10-105	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-105	4TWR4018	208/1	9	20	1, 2, 3, 4
U-106	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-106	4TWR4018	208/1	9	20	1, 2, 3, 4
U-107	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-107	4TWR4018	208/1	9	20	1, 2, 3, 4
U-108	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-108	4TWR4018	208/1	9	20	1, 2, 3, 4
W-109	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-109	4TWR4018	208/1	9	20	1, 2, 3, 4
10-110	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-110	4TWR4018	208/1	9	20	1, 2, 3, 4
HU-III	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-III	4TWR4024	208/1	4	25	1, 2, 3, 4
-10-112	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	4.4	208/1	94	100	HP-112	4TWR4060	208/1	32	50	1, 2, 3, 4
J-113A	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	4.4	208/1	94	100	HP-113A	4TWR4060	208/1	32	50	I, 2, 3, 4
U-113B	TRANE	TEM4AOC6OS5ISA	60.0	2,000	0.5	208/1	8	20	20.0	4.4	208/1	94	100	HP-113B	4TWR4060	208/1	32	50	I, 2, 3, 4
₩-114	TRANE	TEM4AOC4254ISA	42.0	1,400	0.5	208/1	5	20	15.0	10.8	208/1	73	80	HP-114	4TWR4042	208/1	26	45	I, 2, 3, 4
U-201	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-201	4TWR4024	208/1	14	25	I, 2, 3, 4
-202	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-202	4TWR4024	208/1	14	25	I, 2, 3, 4
J-203	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-203	4TWR4024	208/1	4	25	I, 2, 3, 4
J-204	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-204	4TWR4024	208/1	4	25	1, 2, 3, 4
J-2 <i>0</i> 5	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-205	4TWR4018	208/1	9	20	1, 2, 3, 4
)-206	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-206	4TWR4018	208/1	9	20	I, 2, 3, 4
J-207	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-207	4TWR4018	208/1	9	20	I, 2, 3, 4
J-208	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-208	4TWR4018	208/1	9	20	I, 2, 3, 4
U-209	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-209	4TWR4018	208/1	9	20	I, 2, 3, 4
1U-21 <i>0</i>	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-210	4TWR4018	208/1	9	20	I, 2, 3, 4
HU-211	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-211	4TWR4024	208/1	4	25	1, 2, 3, 4
1∪-2 2	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-212	4TWR4024	208/1	4	25	1, 2, 3, 4
1∪-2 3	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-213	4TWR4024	208/1	14	25	1, 2, 3, 4
W-214	TRANE	TEM4AOB2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-214	4TWR4024	208/1	14	25	1, 2, 3, 4
10-215	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-215	4TWR4024	208/1	14	25	1, 2, 3, 4
10-301	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-301	4TWR4024	208/1	14	25	I, 2, 3, 4
J-302	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-302	4TWR4024	208/1	14	25	I, 2, 3, 4
J-303	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-303	4TWR4024	208/1	4	25	l, 2, 3, 4
J-304	TRANE	TEM4A0B24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-304	4TWR4024	208/1	14	25	I, 2, 3, 4
J-305	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-305	4TWR4018	208/1	٩	20	I, 2, 3, 4
J-306	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-306	4TWR4018	208/1	٩	20	I, 2, 3, 4
J-307	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-307	4TWR4018	208/1	٩	20	I, 2, 3, 4
1-308	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-308	4TWR4018	208/1	٩	20	l, 2, 3, 4
1-309	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-309	4TWR4018	208/1	٩	20	I, 2, 3, 4
U-310	TRANE	TEM4AOBI852ISB	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-310	4TWR4018	208/1	٩	20	I, 2, 3, 4
I U-311	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-311	4TWR4024	208/1	4	25	I, 2, 3, 4
J-312	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-312	4TWR4024	208/1	4	25	I, 2, 3, 4
J-313	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-313	4TWR4024	208/1	4	25	I, 2, 3, 4
1-314	TRANE	TEM4AOB24S2ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-314	4TWR4024	208/1	14	25	1, 2, 3, 4
1-315	TRANE	TEM4A0B2452ISB	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-315	4TWR4024	208/1	14	25	1, 2, 3, 4

NOTES:

١. PROVIDE PROGRAMMABLE THERMOSTAT TYPICAL OF HONEYWELL VISION PRO 8000.

AIR HANDLING UNIT TO BE VERTICAL UPFLOW CONFIGURATION. 2. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. 3.

4. PROVIDE WALL-MOUNTING KIT FROM MANUFACTURER

GENERAL NOTES:

CHANGE FILTER AFTER UNIT START-UP, DURING FINISH WORK AND FINAL PUNCH. DO NOT OPERATE UNITS DURING DRYWALL SANDING. Α.

PROVIDE A SECONDARY DRAIN PAN FOR ALL COOLING COILS AND ROUTE 3/4" CONDENSATE LINE TO ADJACENT FLOOR DRAIN, INDEPENDENT OF PRIMARY CONDENSATE DRAIN. В. UNIT MANUFACTURER SHALL MAKE COOLING COIL SELECTION. UNIT MANUFACTURER AND INSTALLING CONTRACTOR SHALL SIZE REFRIGERANT PIPING FOR THE FINAL FIELD ROUTING, ELEVATION CHANGES AND CONDENSER С. LOCATIONS. PROVIDE TRAPS INCLUDING INVERTED LIQUID OIL TRAP AT INDOOR EVAPORATOR COIL, TXV, ADDITIONAL REFRIGERANT, LOW VOLTAGE STARTER KIT, OFF CYCLE TIMER, CRANKCASE HEATER AND ACCUMULATOR AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM.

PROVIDE A MINIMUM 3/8" LIQUID REFRIGERANT LINES ON ALL SYSTEMS. D.

COOLING LOADS BASED ON 105 DEGREES F AMBIENT TEMPERATURE. E. COOLING MBH INDICATES THE MINIMUM NET COOLING MBH REQUIRED FROM UNIT AT CFM LISTED IN SCHEDULE.

KW OUT INDICATES THE MINIMUM NET HEATING KW REQUIRED FROM UNIT. G.

MAXIMUM LINE LENGTH IS 150 FT. H. AIR HANDLER COILS SHALL BE ALUMINUM. Ι.

ELECTRICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN THE MAIN SUPPLY DUCT AND INTERLOCK WITH UNIT PER CODE FOR UNITS THAT EXCEED 2,000 CFM.

SCHEDULE

EL	ĸw	V/PH	MCA	МОСР	NOTES	
08F	4.8	208/1	28.8	30	1	
08F	4.8	208/1	28.8	30	1	

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
SI	US AIRE	IO2M	SUPPLY	"SEE PLAN"	"SEE PLAN"	YES	1
52	US AIRE	4750-6	SUPPLY	24 x 24	8"	YES	1
53	US AIRE	40005VM	SUPPLY	24 xl0	-	YES	
RI	US AIRE	1400	RETURN	"SEE PLAN"	-	NO	
	PROVIDE WITH RUSKIN CFD7T (AS DIFFUSER FACE SIZE. SHAL	L ONLY APPLY WHEN PE					
Ι.		L ONLY APPLY WHEN PE E): MATCH CEILING TYPE. GRILLES, REGISTERS, AN	VERIFY WITH ARCHITE D DIFFUSERS.	ATED ASSEMBLY. PR	OVIDE SINGLE DEFL		
I. NERAL NOT A. B.	AS DIFFUSER FACE SIZE. SHAL TES (APPLY TO ALL ABOVE PROVIDE MOUNTING FRAME TO MAXIMUM NC OF 30 FOR ALL (L ONLY APPLY WHEN PE DI MATCH CEILING TYPE. GRILLES, REGISTERS, AN NECK SIZE SHALL BE TH	VERIFY WITH ARCHITE D DIFFUSERS. E SAME AS THE BRAN	ATED ASSEMBLY. PR	OVIDE SINGLE DEFL		

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	BHP	HP	RPM	dBA	V/PH	NOTES
EF-I	BROAN	AE80L	50	0.25	DIRECT	26.9 W		-	28	120/1	I, 2
NOTES:											
Ι.	PROVIDE WITH FACTORY	INSTALLED AND W	RED DISCONNEC	т.							
2.	PROVIDE WITH BROAN RI	OMI RADIATION DAI	MPER.								

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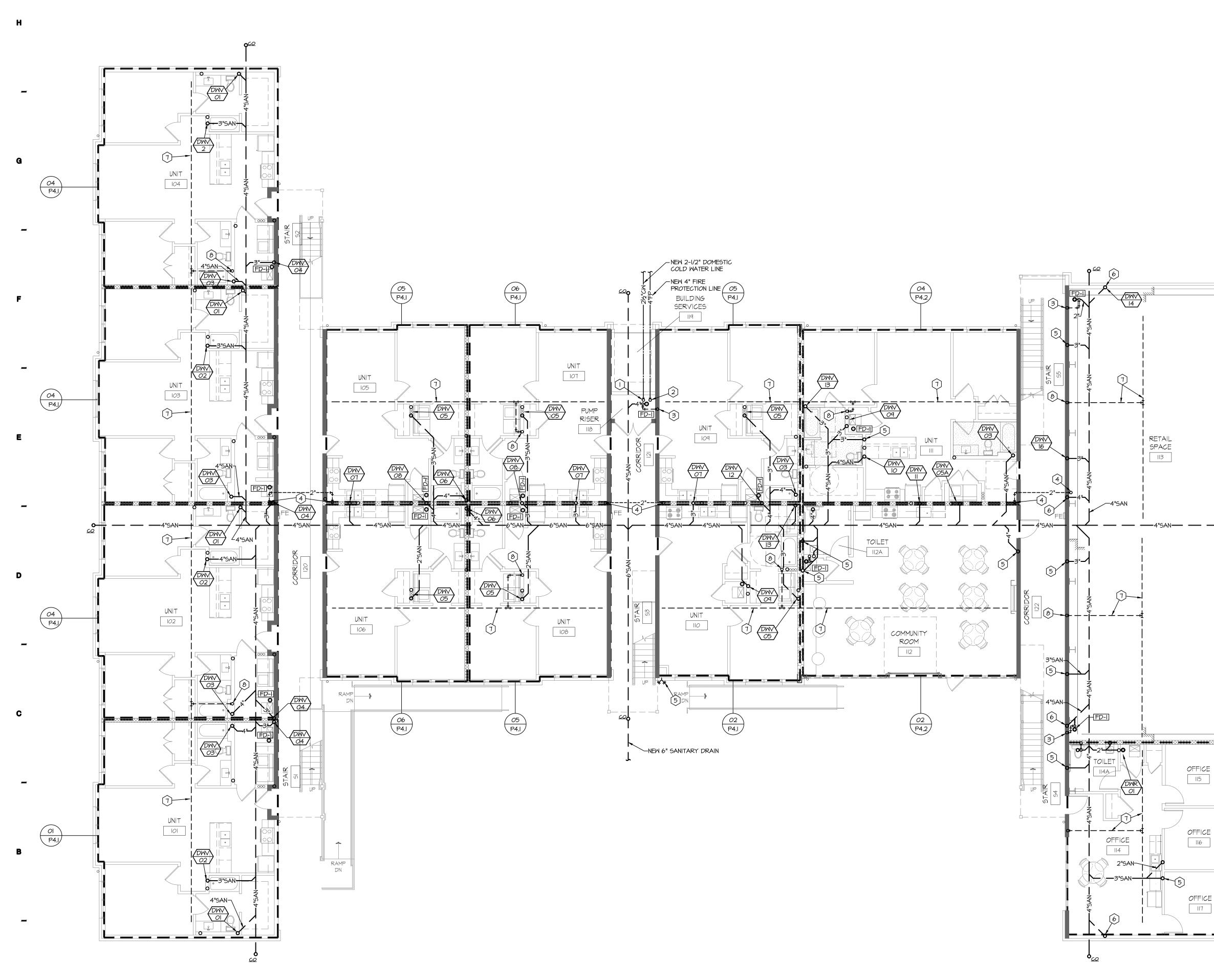






MECHANICAL SCHEDULES

ISSUE DATE: 02.04.2019 **REVISIONS:**



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FIRST FLOOR BELOW GRADE PLUMBING PLAN SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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- A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
- PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
- E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.
 F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF IO'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
- H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING: GAPS ARE SEALED WITH CAULK OR FOAM.
- J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
- K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
- L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

03 P4.2

- I. 2-1/2" DOMESTIC WATER SERVICE ENTRANCE.
- 4" FIRE PROTECTION LINE.
 2" VENT UP. REFER TO SHEET PI.I FOR CONTINUATION.
- 4. 2" COLD WATER LINE UP TO ABOVE GRADE. REFER TO SHEET PI.I FOR
- CONTINUATION.5. 3" SANITARY DRAIN LINE UP TO UPPER LEVELS. REFER TO SHEET PI.I FOR CONTINUATION.
- 6. 4" SANITARY DRAIN LINE UP TO UPPER LEVELS. REFER TO SHEET PI.I FOR CONTINUATION.
- 7. 4" PERFORATED PVC PIPING INSTALLED IN CENTER OF GRAVEL LAYER FOR RADON CONTROL SYSTEM. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
- 8. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON CONTROL SYSTEM.

RADON CONTROL SYSTEM NOTES:

- I. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
- 2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



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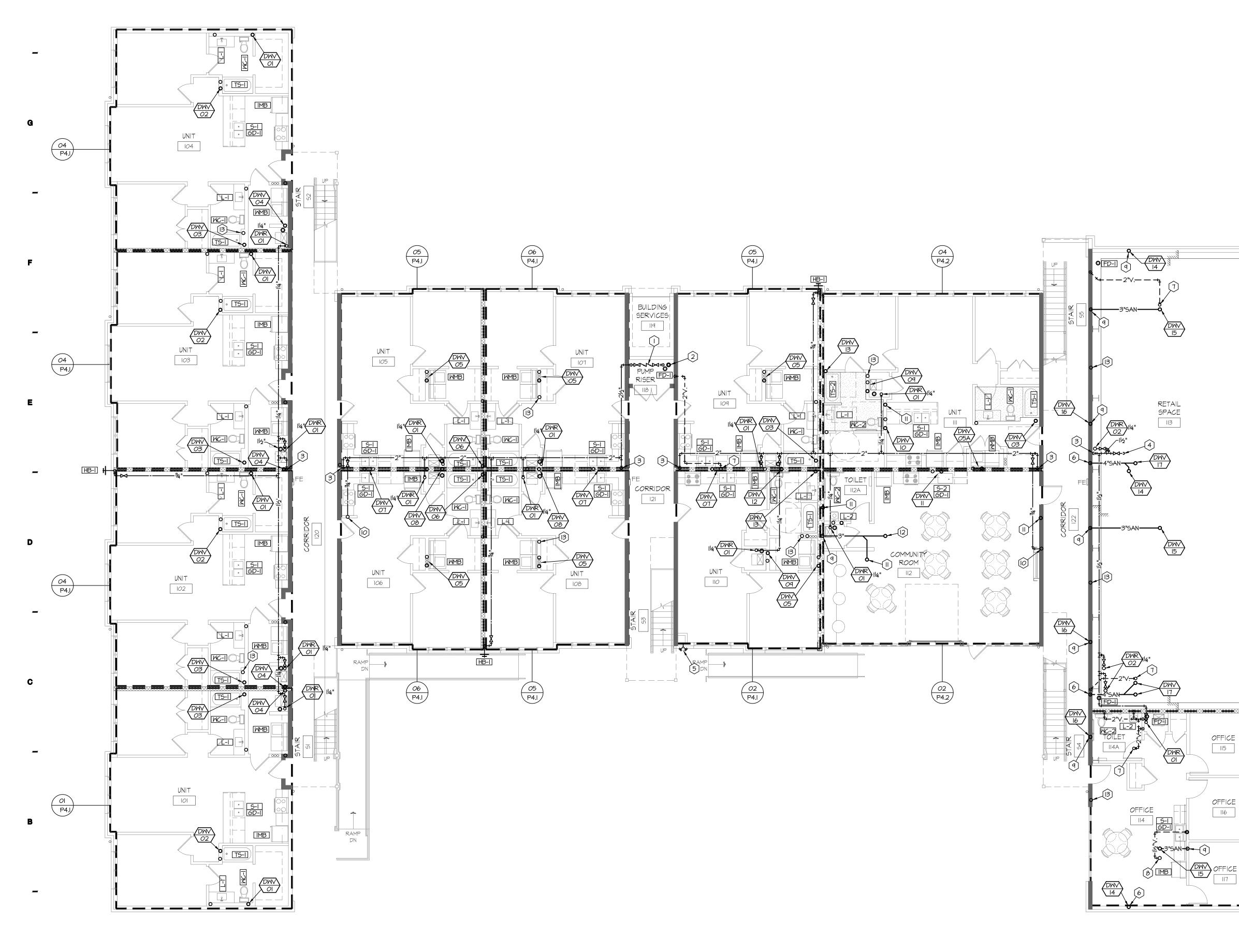


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FIRST FLOOR ABOVE GRADE PLUMBING PLAN SCALE: 1/8" = 1'-0"

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L.

- A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.

- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
- E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT
- OF ALL PLUMBING SYSTEMS. G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM
- OF IO'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
- H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING: GAPS ARE SEALED WITH CAULK OR FOAM.
- J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
- L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

- I. PROVIDE A NEW 2-1/2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY AT THIS LOCATION, FEBCO MODEL &25YD OR EQUIVALENT, SEE DETAIL ON DRAWINGS FOR INSTALLATION REQUIREMENTS. PROVIDE NEW DOMESTIC WATER SERVICE FROM CITY MAIN, SEE CIVIL SITE PLAN FOR MORE INFORMATION.
- 2. PROVIDE NEW FIRE SPRINKLER SERVICE ENTRANCE IN ACCORDANCE WITH THE DETAIL ON DRAWINGS. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET N.F.P.A. REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
- 3. 2" COLD WATER LINE DOWN TO BELOW GRADE. REFER TO BELOW GRADE PLUMBING PLAN SHEET PO.I FOR CONTINUATION.
- 4. I-I/4" COLD WATER WITH SHUTOFF VALVE AND CAPPED FOR FUTURE TENANT.
- 5. FIRE DEPARTMENT CONNECTION.

(03)

P4.2

- 6. 4" SANITARY DRAIN LINE DOWN TO BELOW GRADE. REFER TO SHEET PO.I FOR CONTINUATION.
- 7. 2" VENT UP. REFER TO SECOND & THIRD FLOOR PLUMBING PLANS SHEET PI.2 FOR CONTINUATION.
- 8. I-I/2" VENT UP. REFER TO SECOND & THIRD FLOOR PLUMBING PLANS SHEET PI.2 FOR CONTINUATION.
 9. 3" SANITARY DRAIN LINE DOWN TO BELOW GRADE. REFER TO FIRST
- FLOOR BELOW GRADE PLUMBING PLAN SHEET PO.I FOR CONTINUATION. IO. 3/4" COLD WATER LINE UP TO ROOF TO SERVE ROOF HYDRANT RH-I.
- II. 3" SANITARY DRAIN LINE UP TO SECOND FLOOR, AND DOWN TO BELOW GRADE.
- 12. 2" SANITARY DRAIN LINE UP TO SECOND FLOOR.
 13. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON SYSTEM.

RADON CONTROL SYSTEM NOTES:

- I. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
- 2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SSVD ARCHITECTS



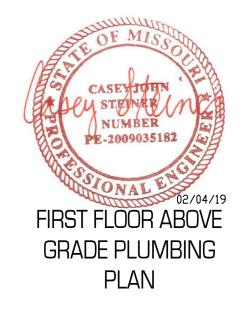
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STARK WILSON DUNCAN ARCHITECTS INC 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 81

SEAL ENGINEER - CASEY JOHN STEINER MO. LICENSE NO. PE-2009035182

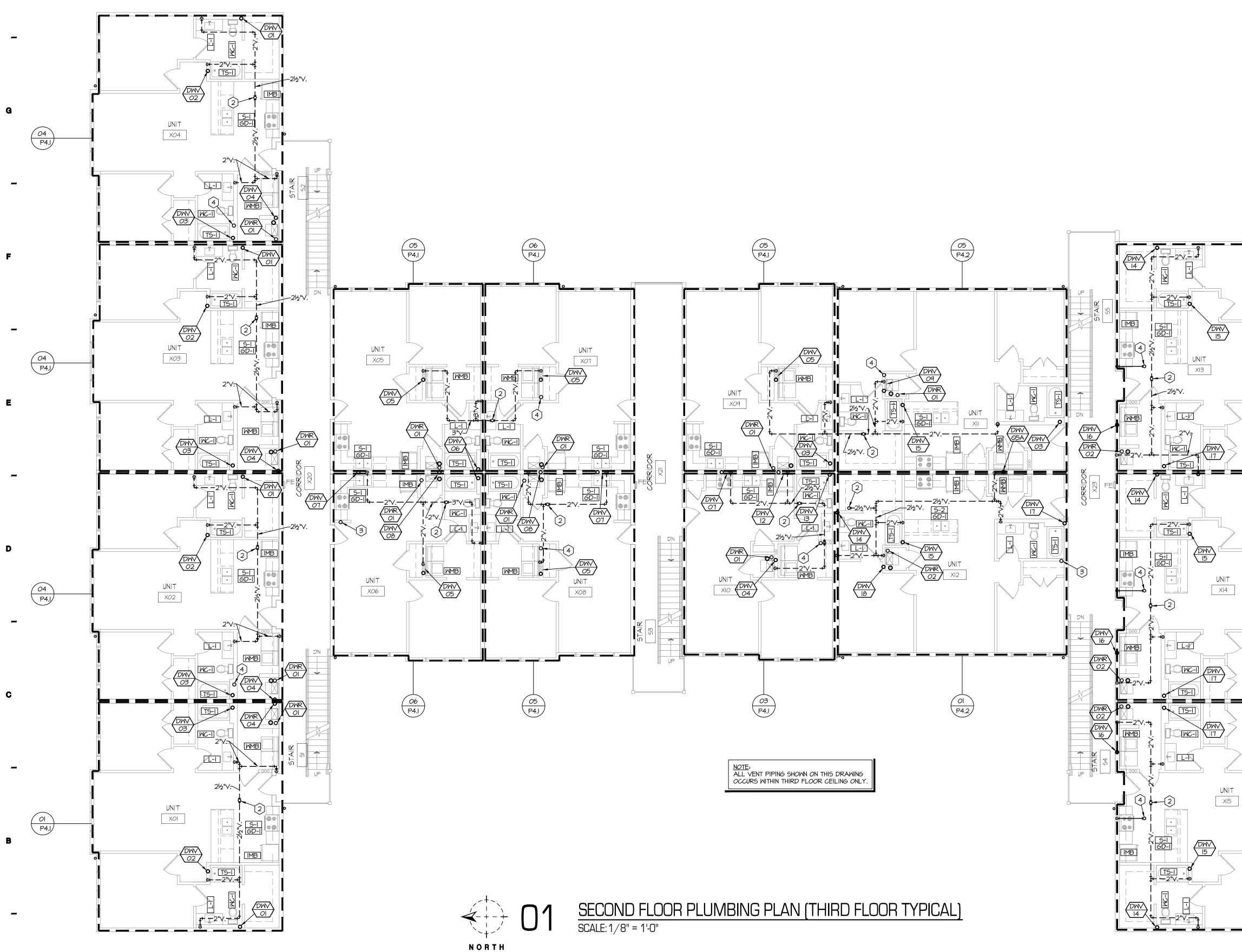


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GENERAL NOTES:

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- A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES. D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
- PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
- E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT. F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
- H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING: GAPS ARE SEALED WITH CAULK OR FOAM.
- J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
- K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES. L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

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- I. 2" VENT DOWN TO FIRST FLOOR.
- 2. AT THIRD FLOOR CEILING, 3" VENT UP TO 3" VENT THRU ROOF.
- 3. 3/4" COLD WATER LINE UP TO ROOF HYDRANT RH-I ON ROOF. 4. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON SYSTEM.

RADON CONTROL SYSTEM NOTES:

- I. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
- 2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.







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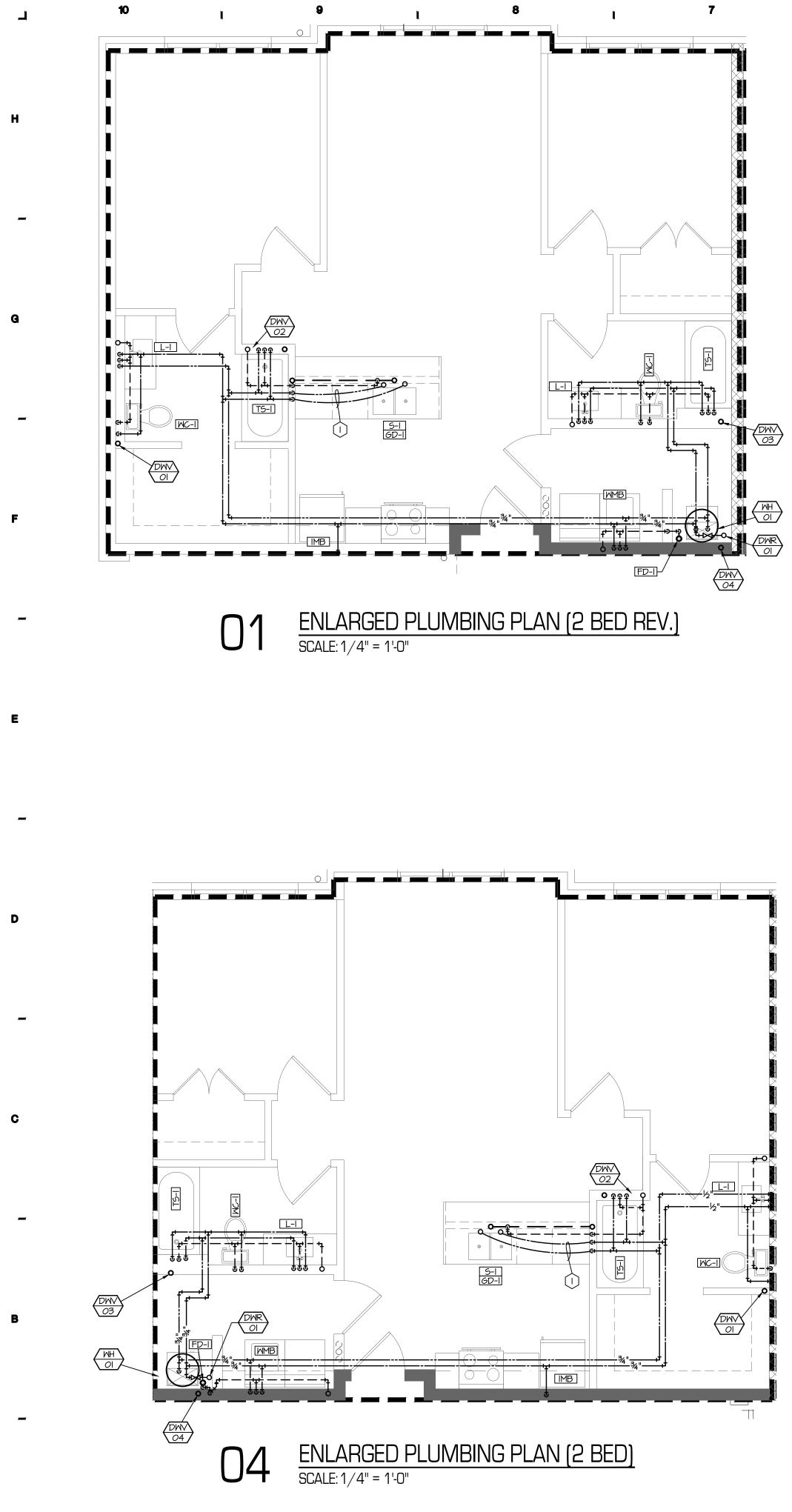
SECOND FLOOR PLUMBING PLAN (THIRD FLOOR TYPICAL)

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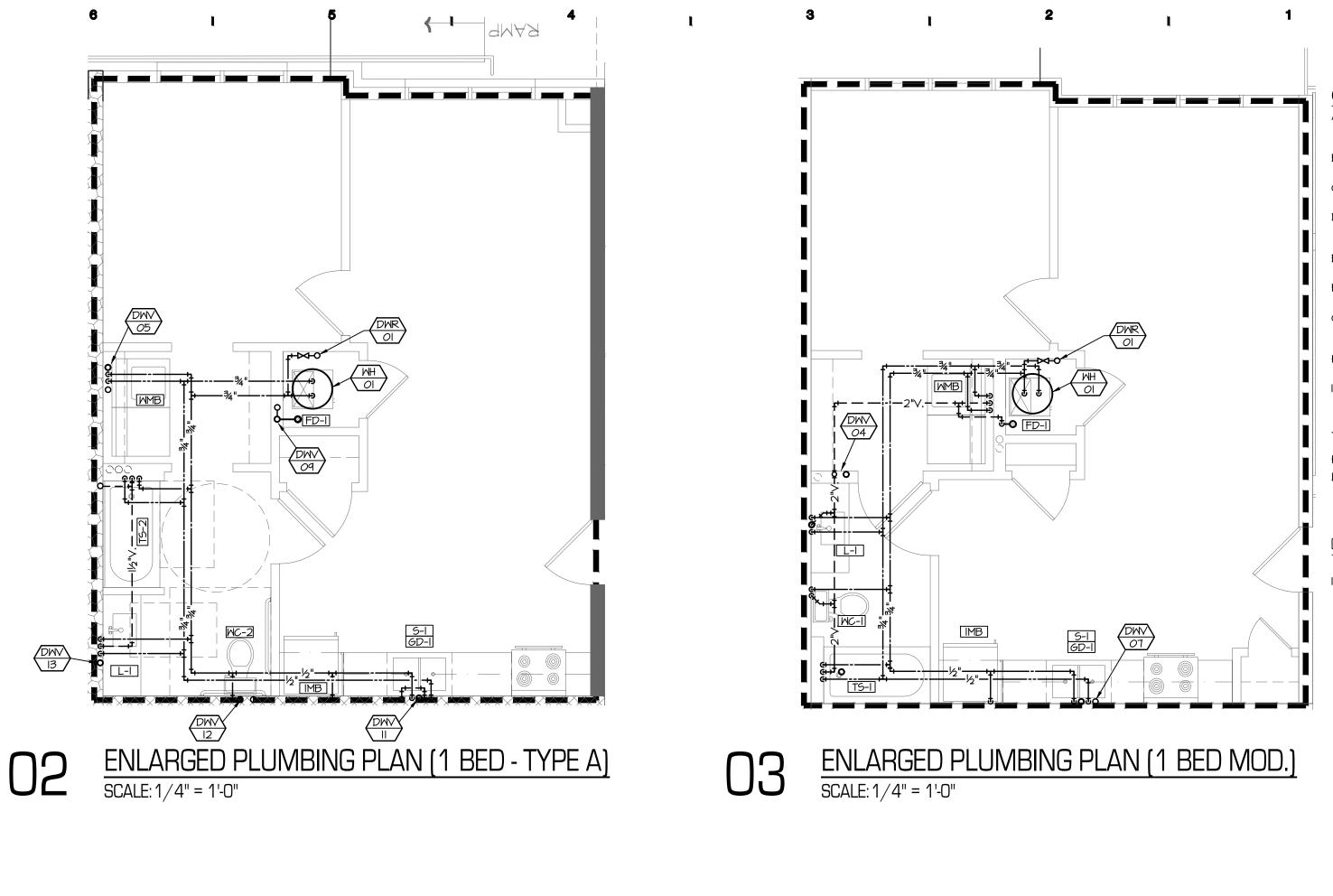
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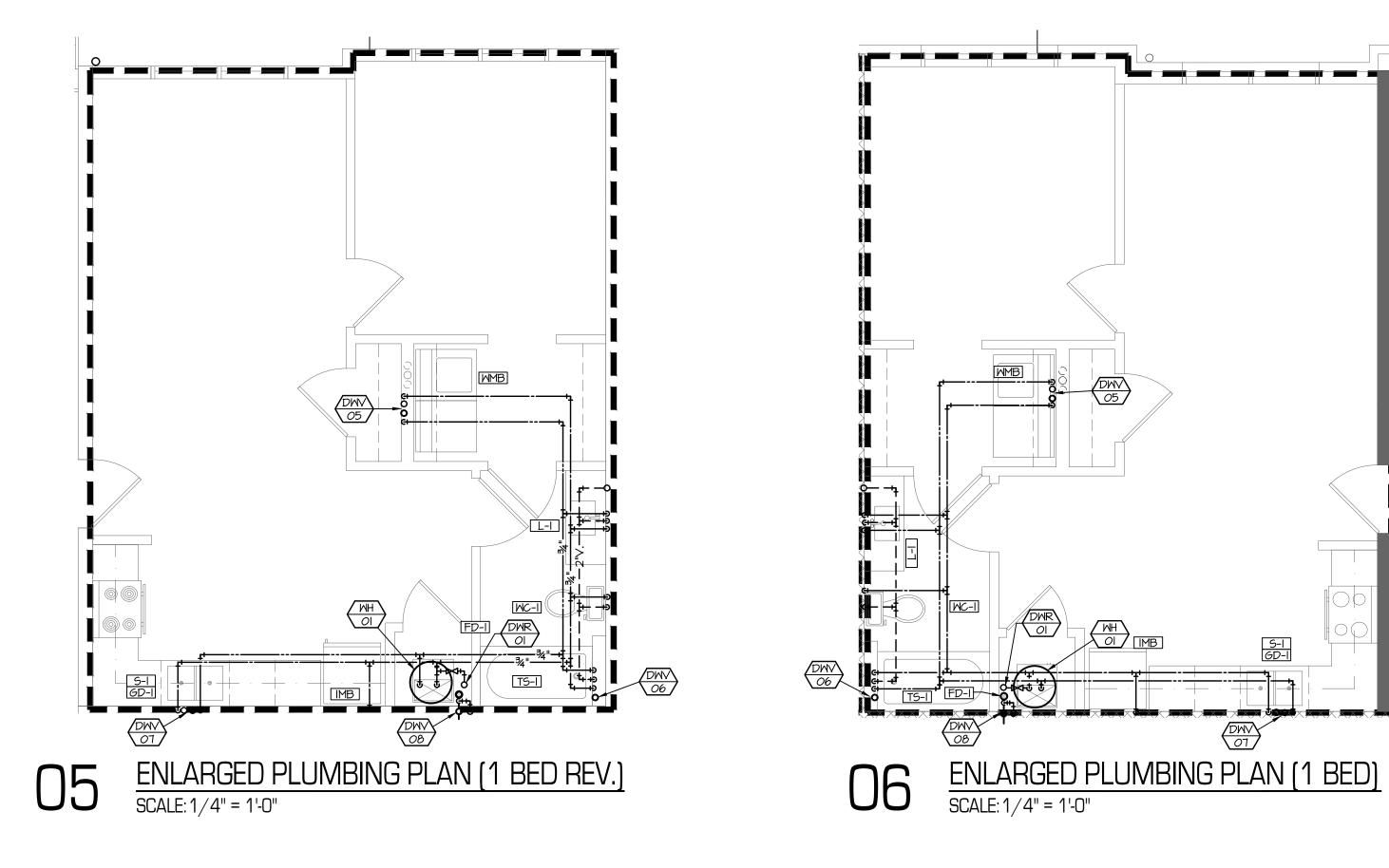






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GENERAL NOTES:

- A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
- REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
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- THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.
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- PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
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- ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING: GAPS ARE SEALED WITH CAULK OR FOAM.
- BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
- K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
- ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

ROUTE WATER PIPING DOWN WALL TO BELOW COUNTER FOR KITCHEN SINK.



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ENLARGED PLUMBING PLANS

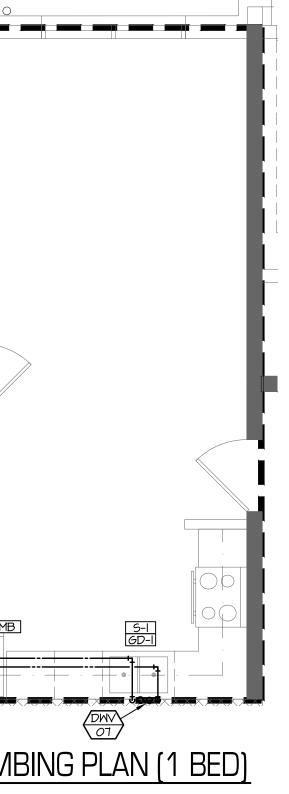
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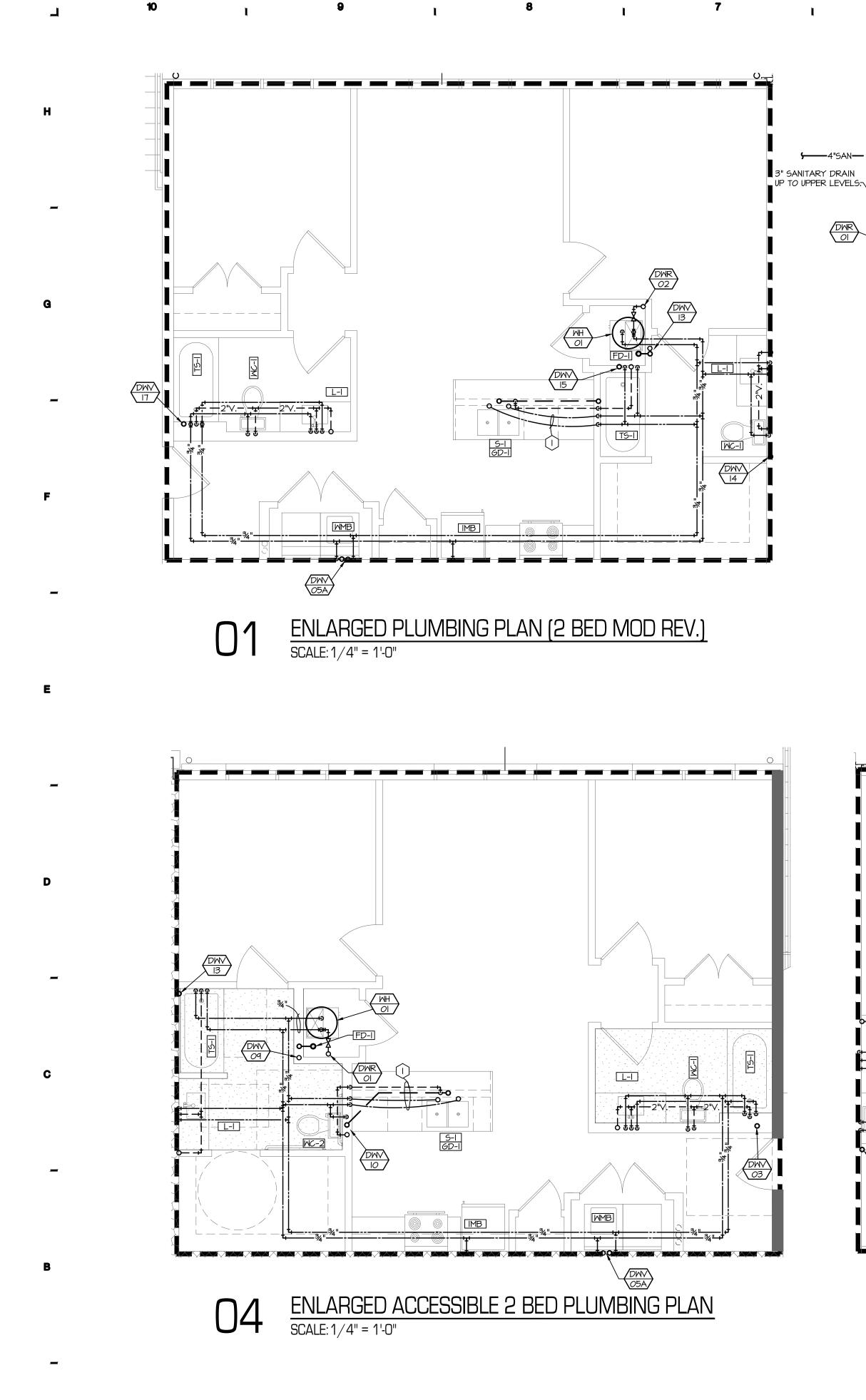
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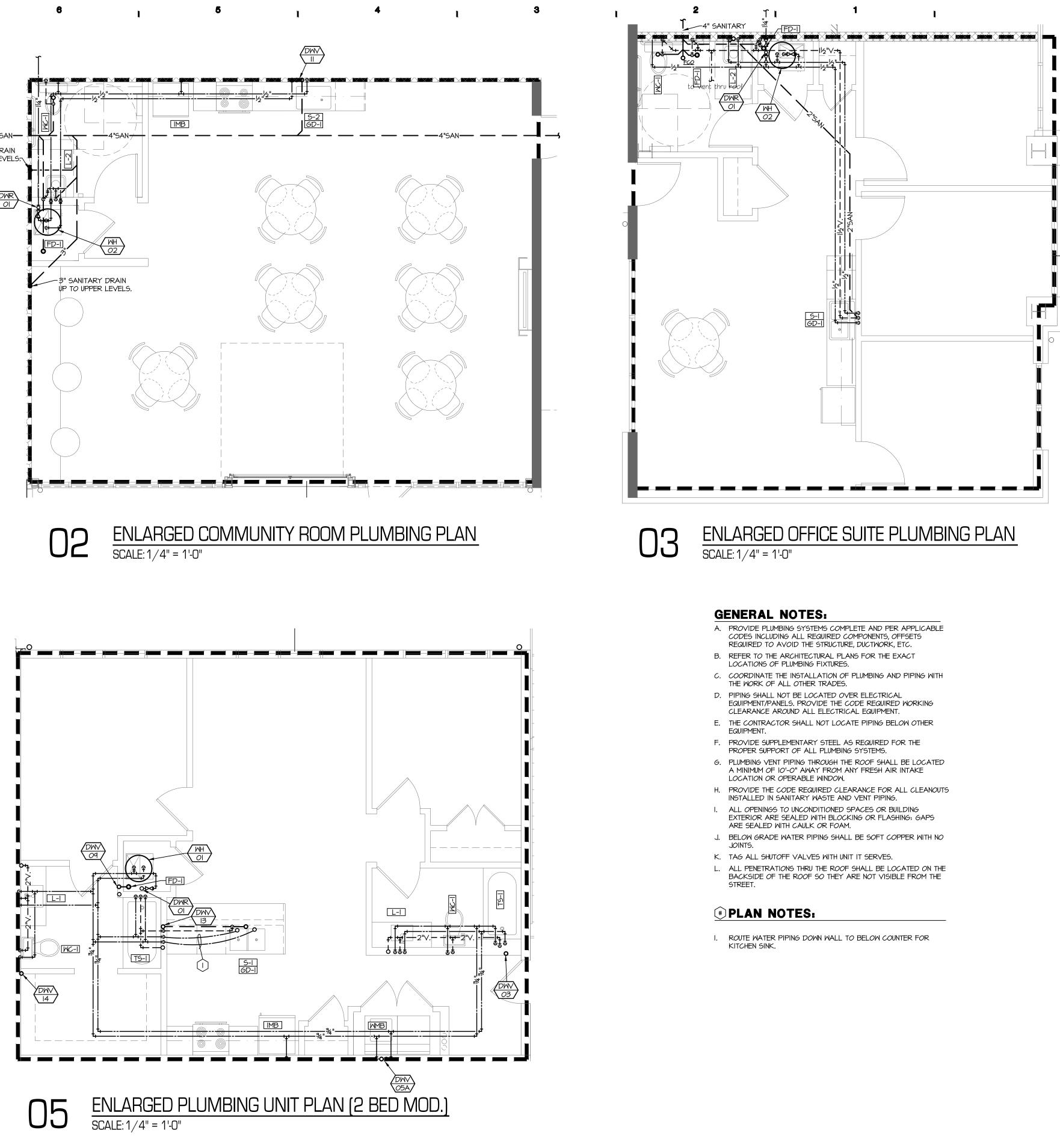


PROJECT NO.: 1803







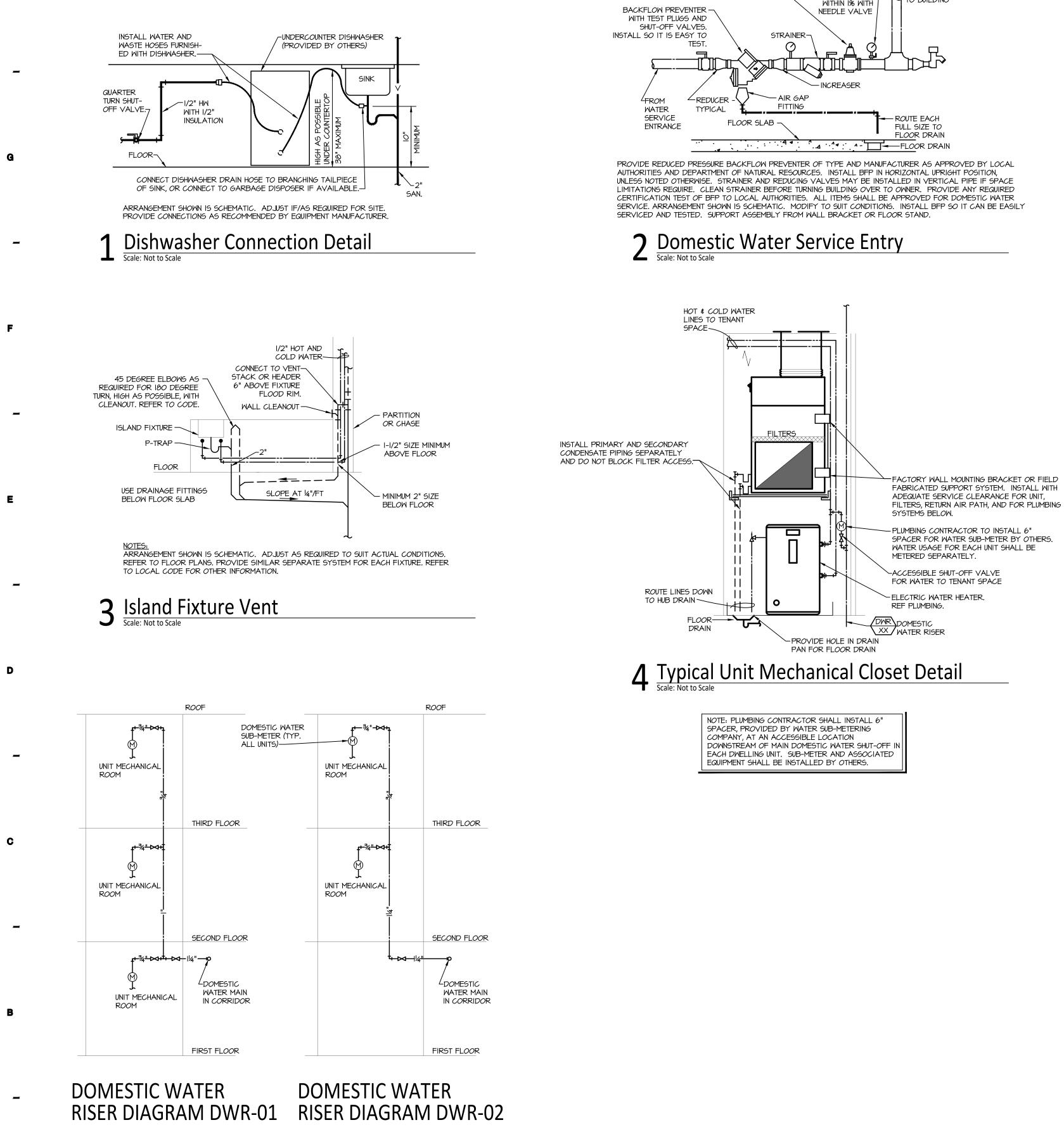






PROJECT NO.: 1803





DOMESTIC WATER RISER DIAGRAMS SCALE: NONE

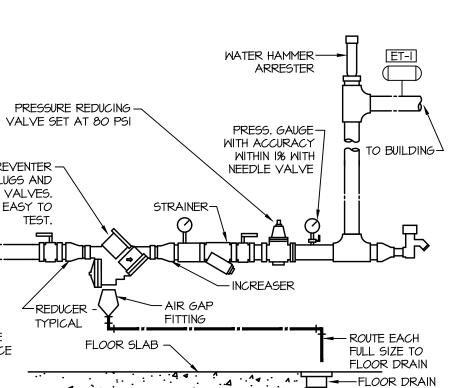
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NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.



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					CON	NECTI	ONS		
IARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CW	HW	W	V	NOTE
	FLOOR MOUNTED	AMERICAN STANDARD	2886.218	ELONGATED BOWL					
WC-1	FLUSH TANK	CRANE		CHURCH 9500C OPEN FRONT SEAT	1/2"		4"	2"	
	WATER CLOSET	тото		TOTO SC534 OPEN FRONT SEAT					
	RIGHT HEIGHT			.92/1.28 GPF					
	ADA FLOOR MOUNTED	AMERICAN STANDARD	2886.204	ELONGATED BOWL					
WC-2	FLUSH TANK	CRANE		CHURCH 9500C OPEN FRONT SEAT	1/2"		4"	2"	8
	WATER CLOSET	ТОТО		TOTO SC534 OPEN FRONT SEAT		'			-
	RIGHT HEIGHT			I.O/I.6 GPF					
	UNDERMOUNT		KATHRYN	BISCUIT COLOR					
L-I	LAVATORY	KOHLER	K-2330-96	FAUCET: F-2			1_1///"	- /2"	1 2
	EAVAIORI	KONEER	R-2000-10				1-1/-	1-1/2	1, 2
	WALL HUNG			FAUCET: F-3		┟────┘			
L-2	LAVATORY	KOHLER	K-5373	20XI8 BASIN,			- /2"	1-1/2"	2
L-2	LAVAIORI	KUHLLK	R-3313	•			1-1/2	1-1/2	2
				CONCEALED ARM CARRIER					
						 '			
	DOUBLE BOWL			STAINLESS STEEL					
5-1	16 GAUGE	VIGO	VG2920BLKI	FAUCET: F-I			2"	- /2"	
	UNDERMOUNT SINK			GRID AND STRAINER DRAIN		 '			
	ADA DOUBLE BOWL			STAINLESS STEEL					
5-2	18 GAUGE	DAYTON	D22519	FAUCET: F-I			2"	I-I/2"	2,8
	SELF RIM SINK			GRID AND STRAINER DRAIN					
	TUB/SHOWER			WHITE ACRYLIC FINISH					
TS-I	SHOWER BASE	AQUATIC BATH	260330M	SHOWER VALVE: SV-2			1-1/2"	2"	
	ACRYLIC			RIGHT/LEFT DRAIN PER PLAN		'			
	ADA TUB /			WHITE ACRYLIC PANEL					
TS-2	SHOWER UNIT	AQUATIC BATH	260330M	GRAB BARS, 24" SLIDE			1-1/2"	2"	
	ACRYLIC		20000011	SHOWER VALVE: SV-I		'	1 1/2	-	
	ADA SINGLE HANDLE			I.O GPM AERATOR, SINGLE HOLE		┢────┦			
F-1	HIGH ARC PULL DOWN	KRAUS	KPF-2620	PULLDOWN SPRAY, CHROME FINISH	1/2"	1/2"			2,8
' '	KITCHEN FAUCET		RI1-2020	CUP STRAINER DRAIN	1/2				2,0
	ADA SINGLE HANDLE					┣───┘			
- ~		DELTA	559-LF-PP	I.O GPM AERATOR SINGLE HOLE					2 4
F-2		DELIA	554-LF-PP		1/2"	/2"			2,8
	FAUCET			POLISHED CHROME		 '			
	PUBLIC LAVATORY			I.O GPM AERATOR					0
F-3	ADA FAUCET	DELTA	T3568LF-WL	WALL MOUNT	1/2"	1/2"			8
	WALL MOUNT					 '			
	ADA SINGLE LEVER	DELTA	TI3HI53	1.75 GPM					
SV-I	PRESSURE BALANCE			CHROME FINISH	1/2"	1/2"			7,8
	TUB/SHOWER FAUCET			TUB & SHOWER VALVE		 '			
	SINGLE LEVER			1.75 GPM		!			
SV-2	PRESSURE BALANCE	DELTA	TI3HI53	CHROME FINISH	1/2"	1/2"			Т
	SHOWER FAUCET			TUB & SHOWER VALVE		<u> </u>			
	NON-FREEZE	PRIER	C-634BXI	VACUUM BREAKER		'			
HB-I	WALL HYDRANT			LOOSE CONTROL KEY	1/2"				6
				WALL CLAMP-WITH HYDRANT BOX		<u> </u>			
	7" ROUND	WADE	IIOOSTD	NICKEL BRONZE STRAINER		'			
FD-I	FLOOR DRAIN	ZURN	Z-415	DEEP SEAL TRAP					4, 9
		SMITH	2005			'			
	5" ROUND	WADE	IIOOSTD	NICKEL BRONZE STRAINER					
FD-2	SHOWER DRAIN	ZURN	Z-415	DEEP SEAL TRAP					
		SMITH	2005			'			
		AMTROL	THERM-X-TROL ST-30	DOMESTIC WATER SERVICE					
ET-I	EXPANSION TANK	TACO	PAX			3/4"			
GD-I	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/3HP, 120V					
						'			
	WASHING MACHINE			PLASTIC					
MMB	CONNECTION BOX	GUY GRAY	W2700	WASHING MACHINE BOX	1/2"	1/2"	2"	- /2"	3.5
					"-	-			-,-
	ICE MAKER			PLASTIC					
IMB	CONNECTION BOX	GUY GRAY	AB9700	ICEMAKER BOX	1/2"				3
					"~	'			Ĭ
<u> </u>	FREEZELESS					┢────┘		1	l
RH-I	REEZELESS ROOF HYDRANT	FREEZE FLOW	2131R		10	1	1/8"		
I	NO DRAIN				I	1 '	1	1	

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FAUCET HOLES TO MATCH FAUCET SPECIFIED.

WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, CONTRACTOR SHALL SUPPLY FIRE RATED BOXES. 3. 4. PIPE SIZE AS SHOWN ON DRAWING.

5. PROVIDE WASHING MACHINE DRAIN PAN UNDERNEATH WASHING MACHINE AT ALL WASHING MACHINE BOX LOCATIONS. 6. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.

1. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND

8. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA. 9. PROVIDE SURESEAL SSX000V INLINE FLOOR DRAIN TRAP SEAL WITH ASSE 1072 RATING.

GENERAL NOTES:

A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES. B. PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.

WAT	WATER HEATER SCHEDULE									
			CAPACITY	INPUT	OUTPUT	RECOVERY				
MARK	MANUFACTURER	MODEL	(GAL)	(kW)	(kW)	(GPH)	V/PH	NOTES		
MH-I	BRADFORD WHITE	RE240L6	38	4.5	-	21.0	208/1	RESIDENCE		
WH-2	BRADFORD WHITE	RE230L6	28	4.5	-	20.0	208/1	OFFICE		

GENERAL NOTES (APPLIES TO ALL ABOVE):

PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE. Α.

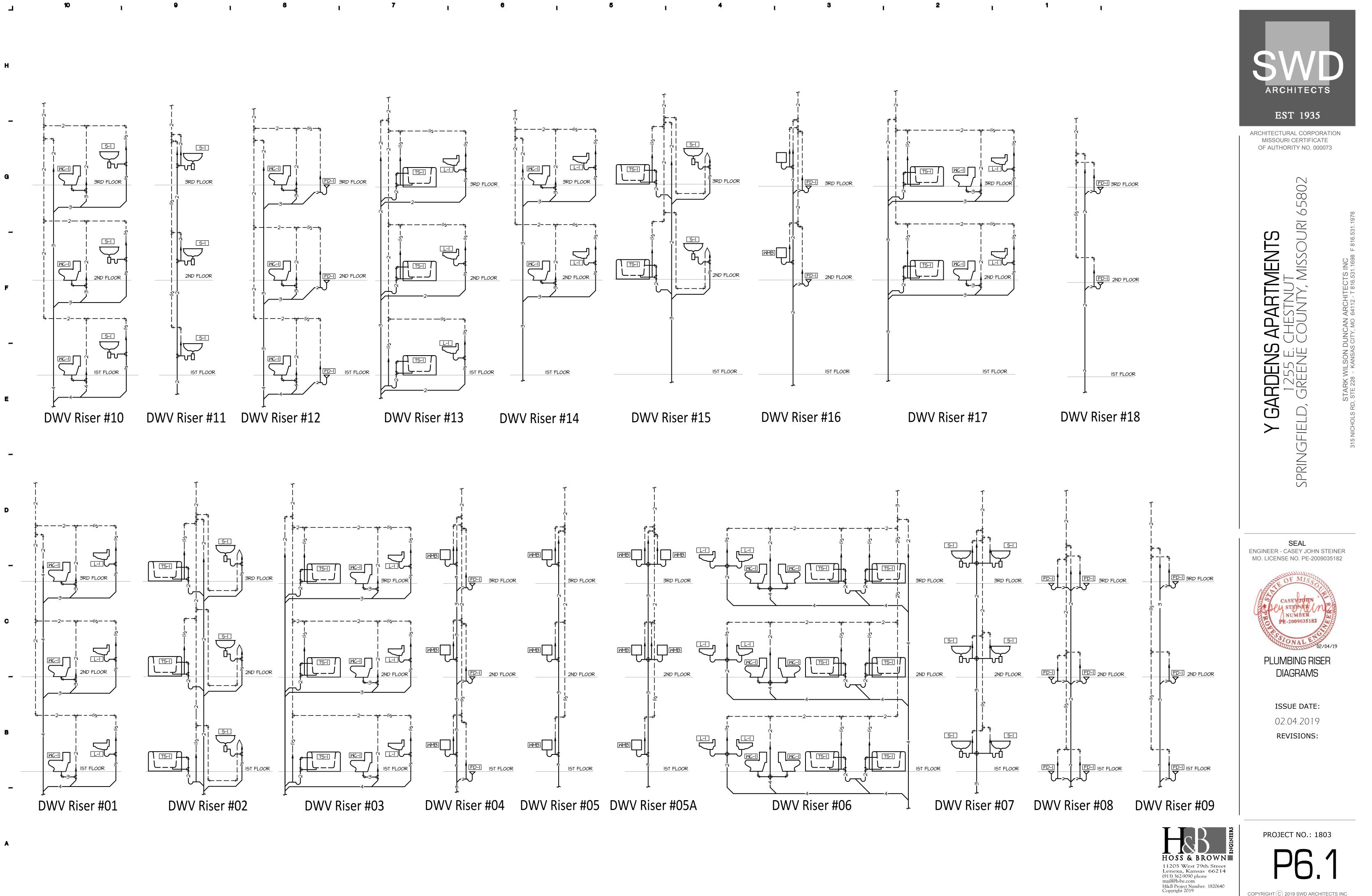
PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER. В. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING. RESTROOM RECOVERY BASED ON 90 DEGREE TEMPERATURE RISE. D.

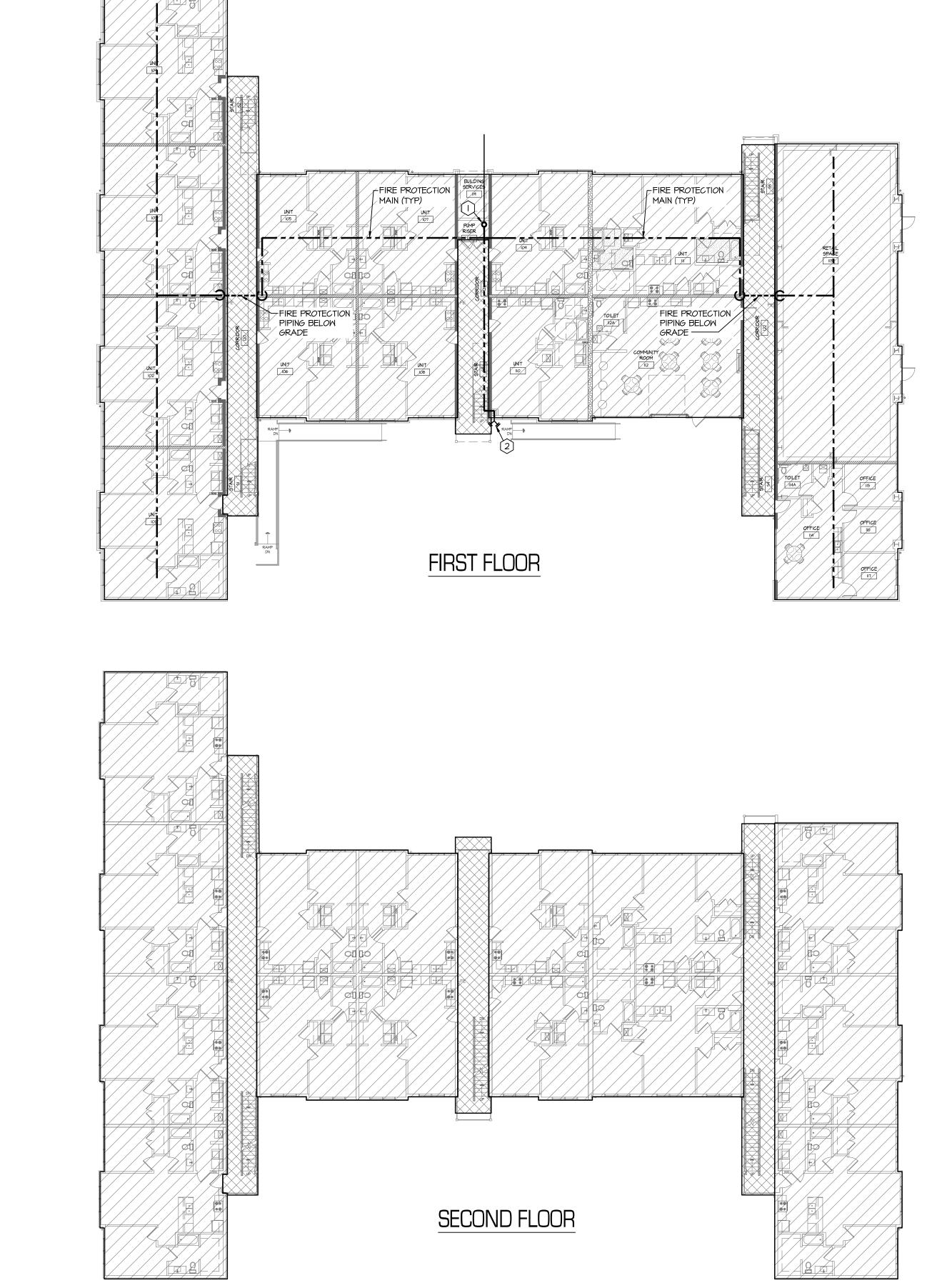
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Y GARDENS APARTMENTS 1255 E. CHESTNUT SPRINGFIELD, GREENE COUNTY, MISSOURI 65802	STARK WILSON DUNCAN ARCHITECTS INC 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978
SEAL ENGINEER - CASEY JOHN STEIN DOLLICENSE NO. PE-2009035187 CASEYTOTIN NUMBER BE-2009035187 OPUNBING SCHEDULES & DETAILS ISSUE DATE: 02.04.2019 REVISIONS:	



PROJECT NO.: 1803







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FIRE PROTECTION PLANS SCALE: 1/16" = 1'-0"

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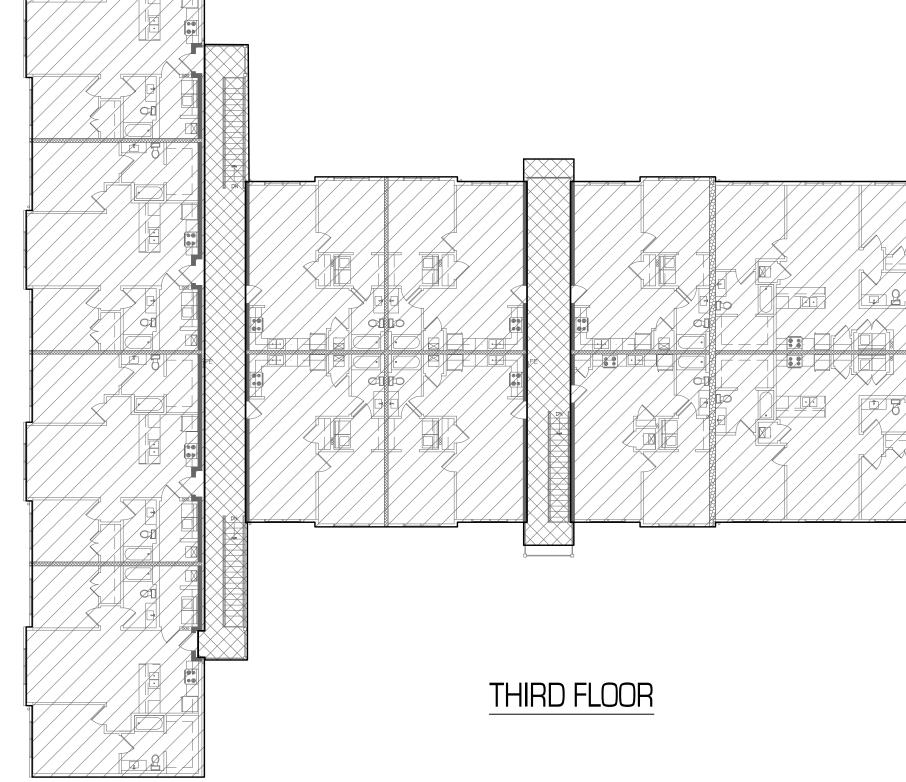
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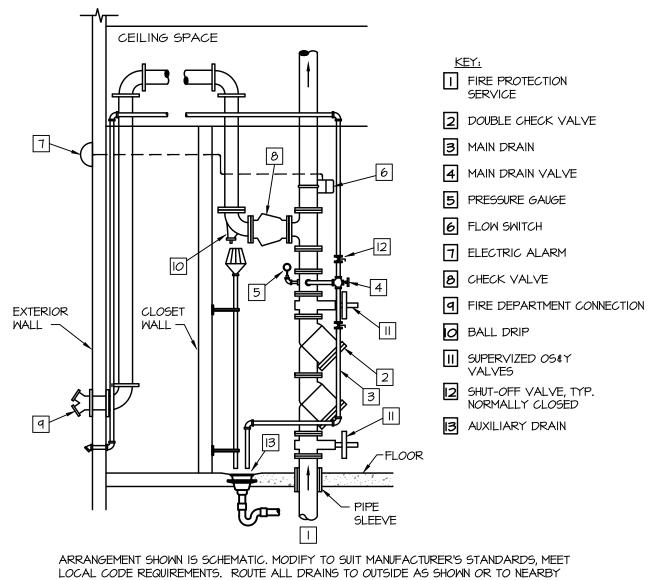
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REMOTE LOCATION

FIRE DEPARTMENT WATER ENTRY SCALE: NOT TO SCALE

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FLOOR DRAIN.

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FIRE PROTECTION GENERAL NOTES: A. TOTALLY NEW CONSTRUCTION: PROVIDE A COMPLETE AUTOMATIC SPRINKLER

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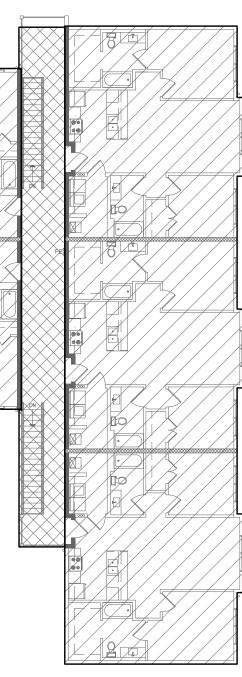
- SYSTEM TO SERVE THE ENTIRE BUILDING. B. PROVIDE FIRE PROTECTION SYSTEM COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. C. INCLUDE ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SUPPORTS, HEADS,
- ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM. D. SPRINKLER HEADS SHALL BE WHITE SEMI-RECESSED FOR AREAS WITH FINISHED CEILINGS. SPRINKLER HEADS SHALL BE ROUGH BRASS FOR AREAS WITH EXPOSED STRUCTURE. SPRINKLER HEADS IN CEILINGS, UNLESS FUNCTIONALLY IMPOSSIBLE, SHALL BE CENTERED WITH AND BETWEEN ROWS OF LIGHT FIXTURES. SPRINKLER HEADS IN MACHINE ROOMS SHALL BE 212F TEMPERATURE ACTIVATED.
- E. PIPING IN AREAS HAVING FINISHED CEILINGS SHALL BE I CONCEALED. SPRINKLER PIPING 2-" AND LARGER MAY BE 2 SCHEDULE IO BLACK STEEL. SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. MINIMUM PIPE SIZE SHALL BE I". F. PROVIDE AND INSTALL BACKFLOW PREVENTION EQUIPMENT AS REQUIRED BY
- LOCAL CODES. PROVIDE AND INSTALL FULL FLOW FIRE METER OR DETECTOR CHECK METER IF REQUIRED. G. THE SYSTEMS SHALL BE DESIGNED BY A LICENSED FIRE
- H. PROTECTION ENGINEER AND INSTALLED BY A LICENSED SPRINKLER CONTRACTOR.
- I. COORDINATE ALL SCHEDULING AND WORK WITH OTHER TRADES SO AS TO PREVENT CONFLICTS, AND TO ENSURE ORDERLY PROGRESS OF THE WORK, WITH A MINIMUM OF DELAYS. WHERE SPRINKLER PIPING IS INSTALLED WITHOUT COORDINATING WITH OTHER TRADES AND CONFLICTS OCCUR, SPRINKLER PIPING SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO RESOLVE THE CONFLICTS. J. WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, OR OTHER
- BUILDING CONSTRUCTION, SLEEVES MUST BE USED. WHERE EXPOSED PIPING PASSES THROUGH FINISH WORK, CHROME PLATED OR OTHER FINISH ACCEPTABLE TO THE ARCHITECT, SPLIT WALL PLATES OR ESCUTCHEONS SHALL BE INSTALLED TO FIT SNUGLY AROUND THE PIPING. WHERE FINISH IS NOT A PROBLEM SUITABLE PLATES SHALL BE PROVIDED AT EACH HOLE TO ASSURE EFFECTIVENESS OF CONSTRUCTION AS A FIRE STOP.
- K. SEAL ALL FIRE PROTECTION FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND FIRE PROTECTION PENETRATIONS WITH 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

GENERAL NOTES:

- PROVIDE NEW FIRE SPRINKLER SERVICE ENTRANCE IN ACCORDANCE WITH FIRE PROTECTION SERVICE ENTRY DETAIL. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET N.F.P.A. 13 REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
- 2. PROVIDE WET TYPE FIRE PROTECTION SYSTEM FOR SINGLE HATCHED AREAS AS SHOWN AT LEFT.
- 3. PROVIDE DRY TYPE FIRE PROTECTION SYSTEM FOR DOUBLE HATCHED AREAS AS SHOWN AT LEFT.
- 4. ROUTE PIPING CONCEALED ABOVE CEILING OR IN WALLS WHERE POSSIBLE. HEAD LAYOUT AND BRANCH PIPING SHALL BE SUBMITTED IN SHOP DRAWINGS.
- 5. ALL PIPING SHALL BE ROUTED AT 90 DEGREE ANGLES TO THE STRUCTURE IN A NEAT AND ORDERLY FASHION.
- 6. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

PLAN NOTES:

- I. 4" FIRE PROTECTION LINE.
- 2. FIRE DEPARTMENT CONNECTION.



NOTE: FIRE PROTECTION ENGINEER SHALL PERFORM WATER FLOW RATE AND PRESSURE TESTS AND VERIFY PRESSURE AVAILABLE AT SITE BEFORE COMPLETING FINAL DESIGN.





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ENGINEER - CASEY JOHN STEINER MO. LICENSE NO. PE-2009035182

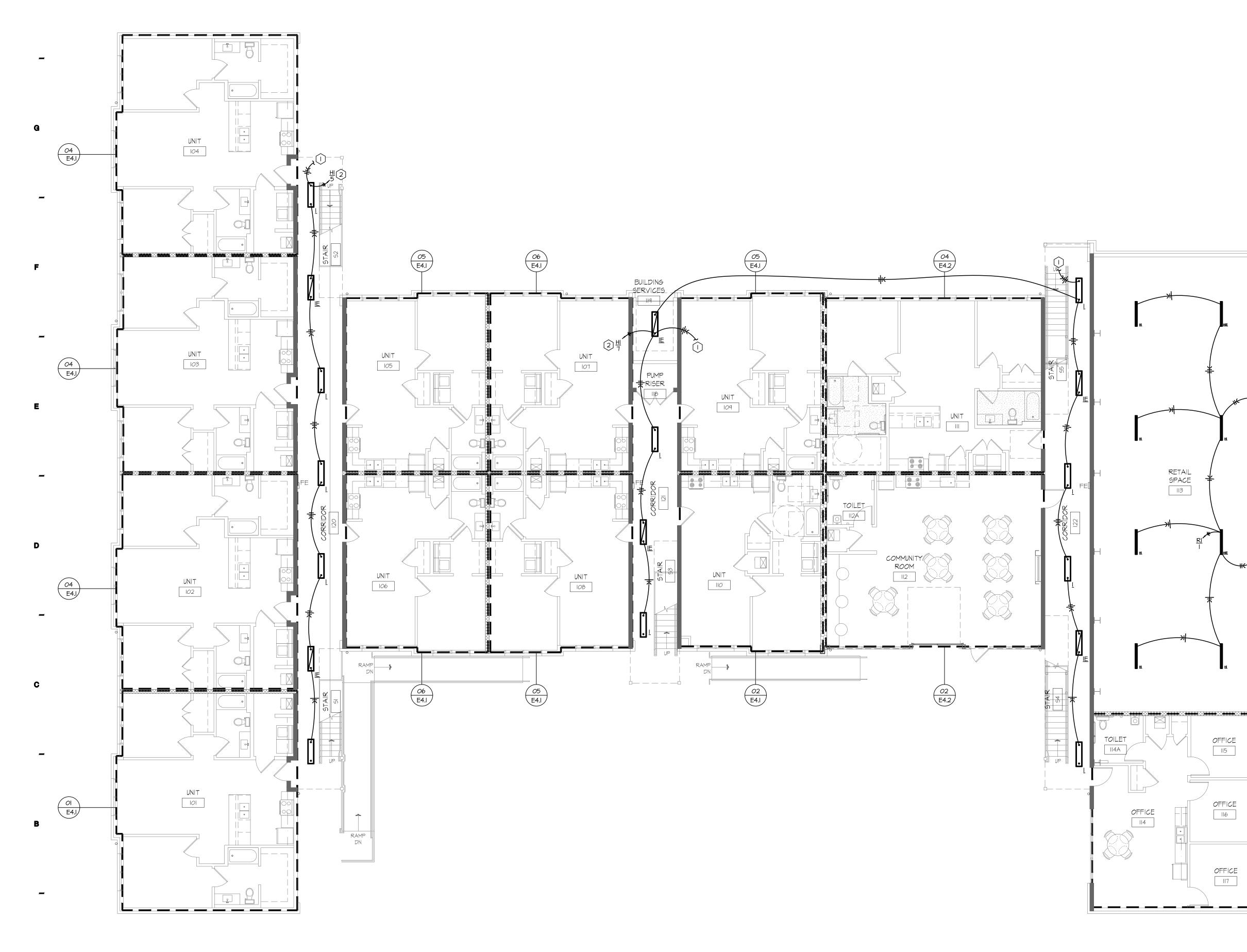


FIRE PROTECTION PLANS

ISSUE DATE:

02.04.2019 **REVISIONS:**





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FIRST FLOOR LIGHTING PLAN SCALE: 1/8" = 1'-0"



GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS. F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

03 E4.2

- I. CIRCUIT CONTINUES TO FLOOR(S) ABOVE. SEE EI.2 FOR CONTINUATION.
- 2. HOMERUN WITH (2) #IO & #IO GROUND WIRE IN A 3/4" CONDUIT. ROUTE THROUGH TIME CLOCK AND PHOTOCELL. REFERENCE EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL I ON SHEET MPEI.I.



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FIRST FLOOR LIGHTING PLAN

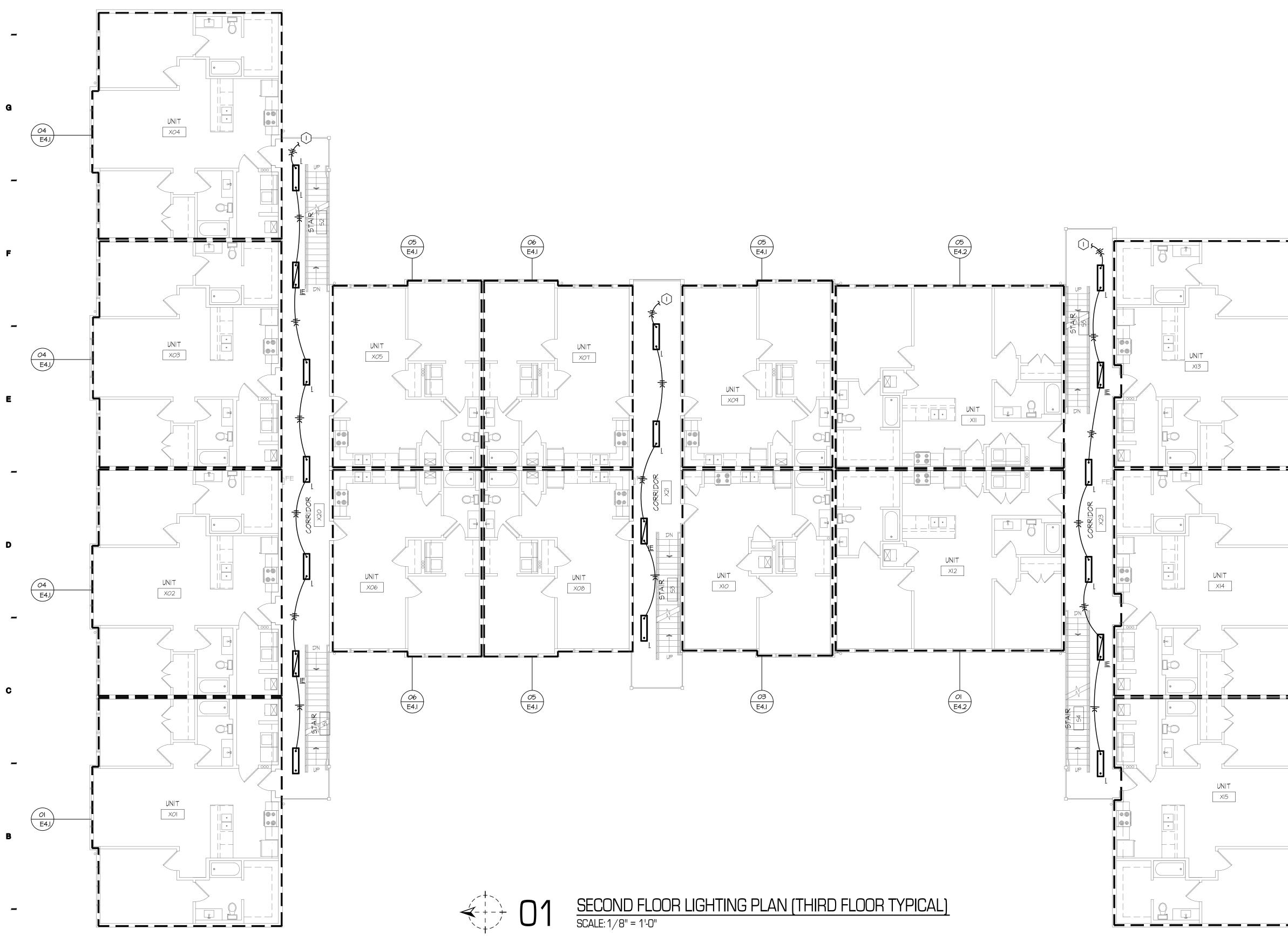
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GENERAL NOTES:

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- E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS. F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

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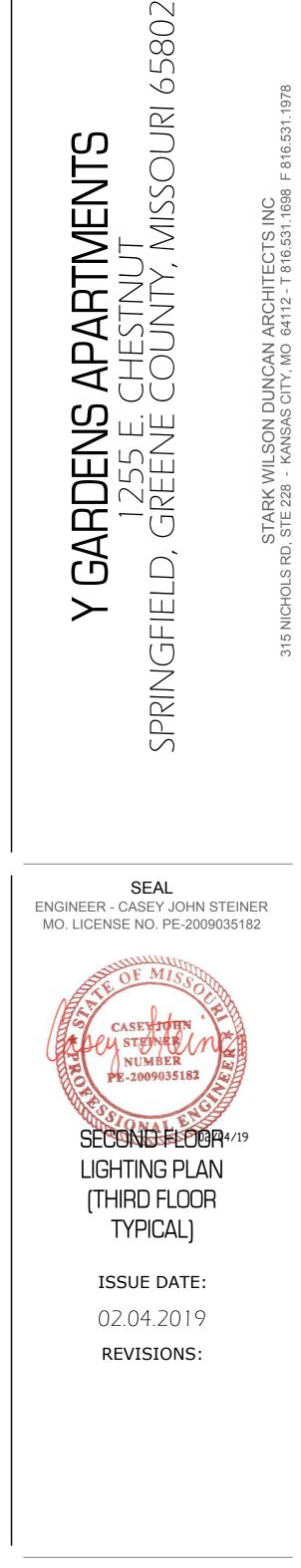
O4 E4.I

I. CIRCUIT CONTINUES TO FLOOR(S) BELOW. SEE EI.I FOR CONTINUATION.



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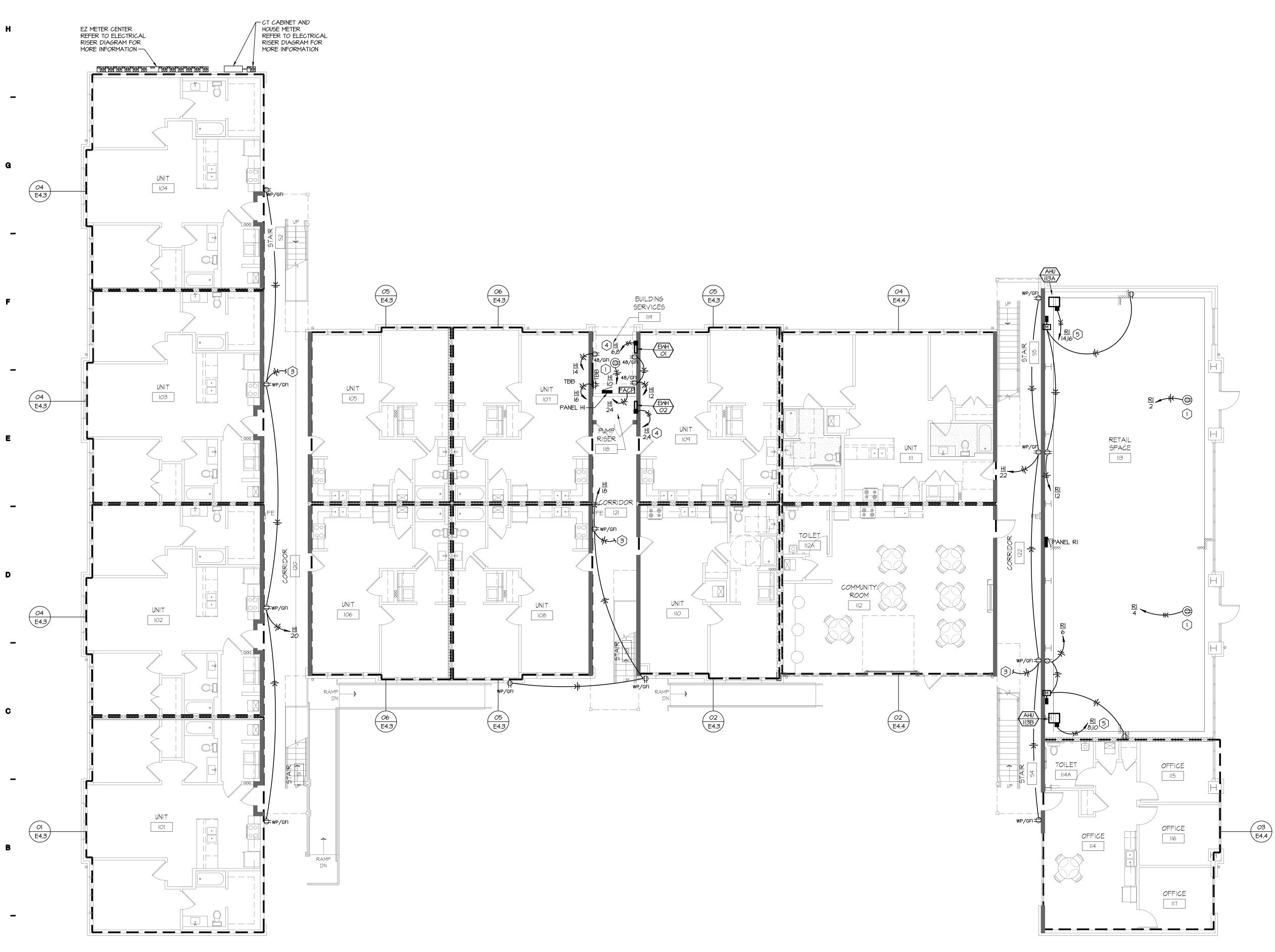
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GENERAL NOTES:

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 B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS
- DRAWINGS. D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF I2" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
 F. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS,
- F. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
 G. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT
- H. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO
- INSTALLATION. I. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL
- J. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

- I. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR GARAGE DOOR OPENER.
- 2. NOT USED.
- 3. UP TO SECOND FLOOR.
 4. PROVIDE 2#10 & I#10 GRD. IN 1/2" C.
- 5. PROVIDE 2#2 ¢ I#8 GRD. IN I-I/4"C.



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FIRST FLOOR POWER PLAN

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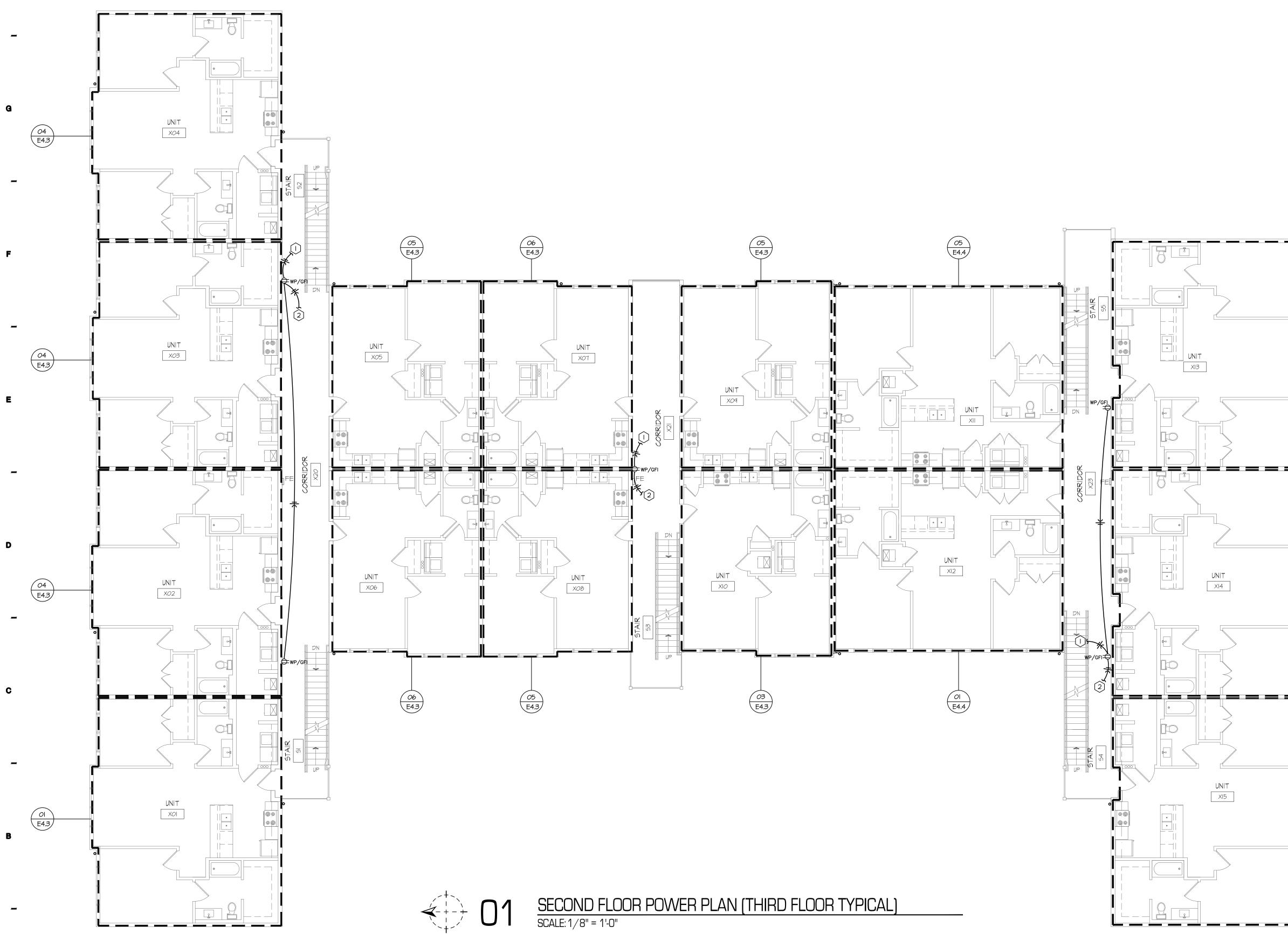
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GENERAL NOTES:

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- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS. C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAMINGS
- DRAWINGS. D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES. F. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND
- THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE. G. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT
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- INSTALLATION. I. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL
- J. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

I. DOWN TO FIRST FLOOR. 2. UP TO THIRD FLOOR.

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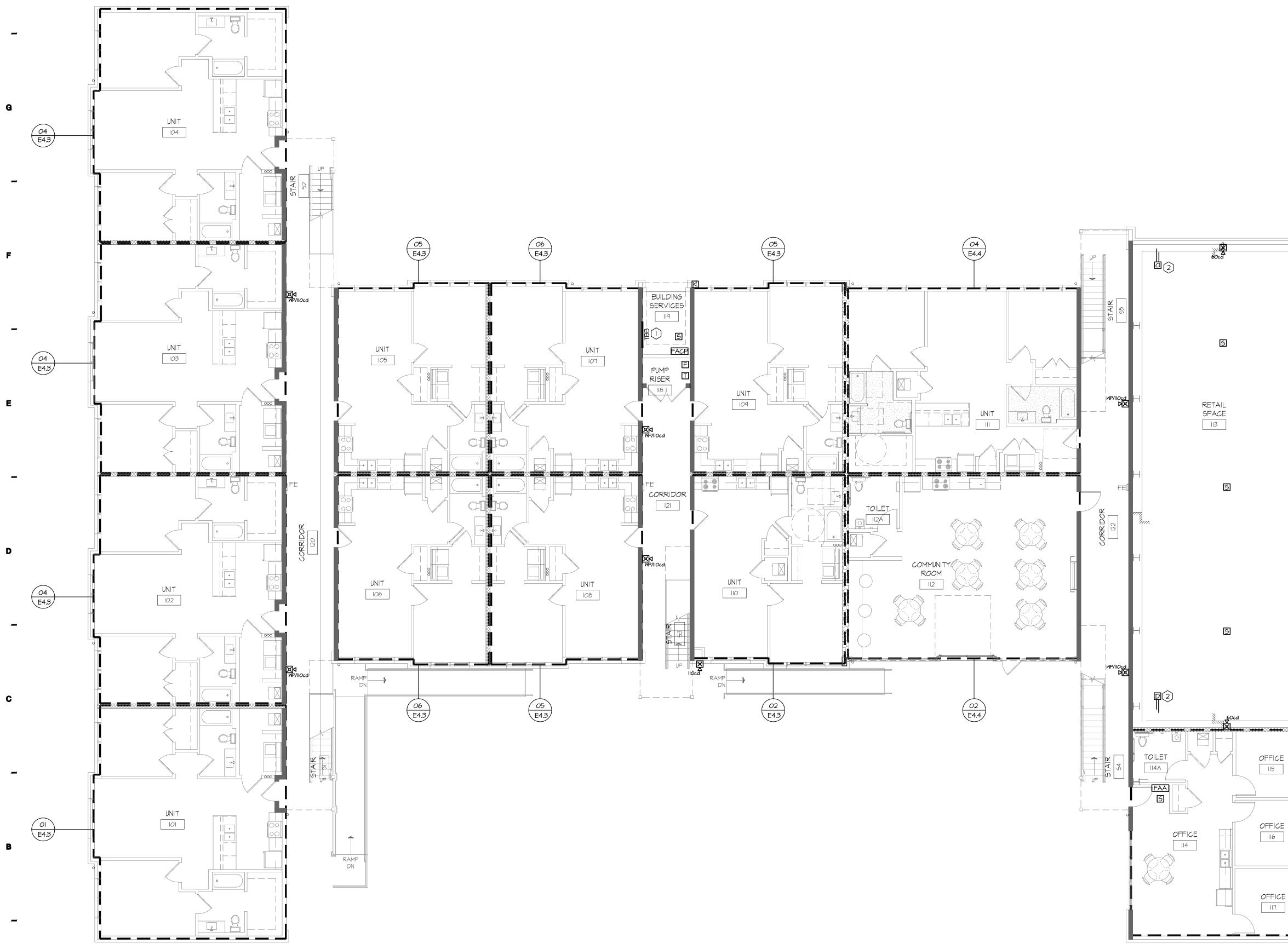
SECOND FLOGP 4/19 POWER PLAN (THIRD FLOOR TYPICAL)

ISSUE DATE: 02.04.2019 **REVISIONS:**



PROJECT NO.: 1803





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GENERAL NOTES:

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- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS. C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWING
- DRAWINGS. D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES. F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH
- PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS. G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS,
- THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE. H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
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- J. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- K. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

03 E4.4

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- PROVIDE 48"X48"X3" FIRE RATED PLYWOOD TELECOMMUNICATIONS BACKBOARD. PROVIDE GROUNDING BUS AND CONNECT TO SYSTEM GROUND. PROVIDE (2) 4" CONDUIT FOR TELECOMMUNICATIONS SERVICE. EXTEND CONDUIT XXXX TO PROPERTY LINE. COORDINATE EXACT SERVICE LOCATION WITH SERVICE PROVIDER. PROVIDE 4" CONDUIT SLEEVES THROUGH FLOOR FOR TELECOMMUNICATIONS CABLING. COORDINATE NUMBER OF SLEEVES REQUIRED WITH SERVICE PROVIDER.
- 2. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR ALL HVAC UNITS GREATER THAN 2000 CFM SUPPLY. DUCT DETECTORS WITH SHUT DOWN RELAY SHALL BE EQUAL TO SIMPLEX MODEL #4098-9756 WITH SAMPLING TUBE IN LENGTH PROPER FOR DUCT SIZE, #2098-9806 REMOTE KEYED TEST STATION WITH LED ALARM MONITORING. INTERLOCK WITH UNIT TO SHUT DOWN UPON ALARM.



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ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073



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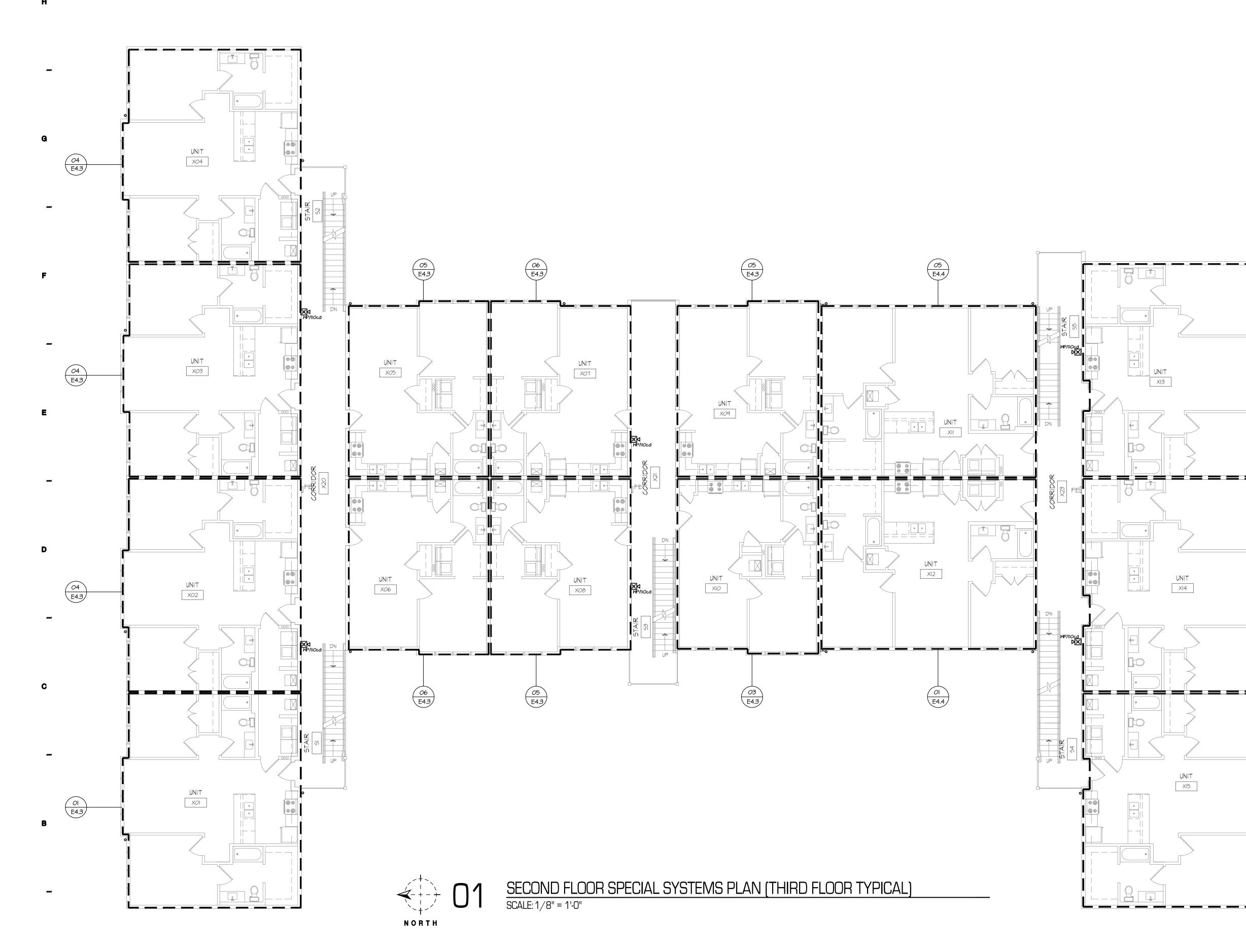
ISSUE DATE:

02.04.2019 **REVISIONS:**



PROJECT NO.: 1803





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GENERAL NOTES:

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- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
 C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS
- DRAWINGS. D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF I2" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
 F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH
- FROVIDE JUNCTION DOALS AND 3/4 CONDUCTION THE PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
 G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS,
- THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
 H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED. I. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALL ATION.
- INSTALLATION. J. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL
- PANELS. K. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

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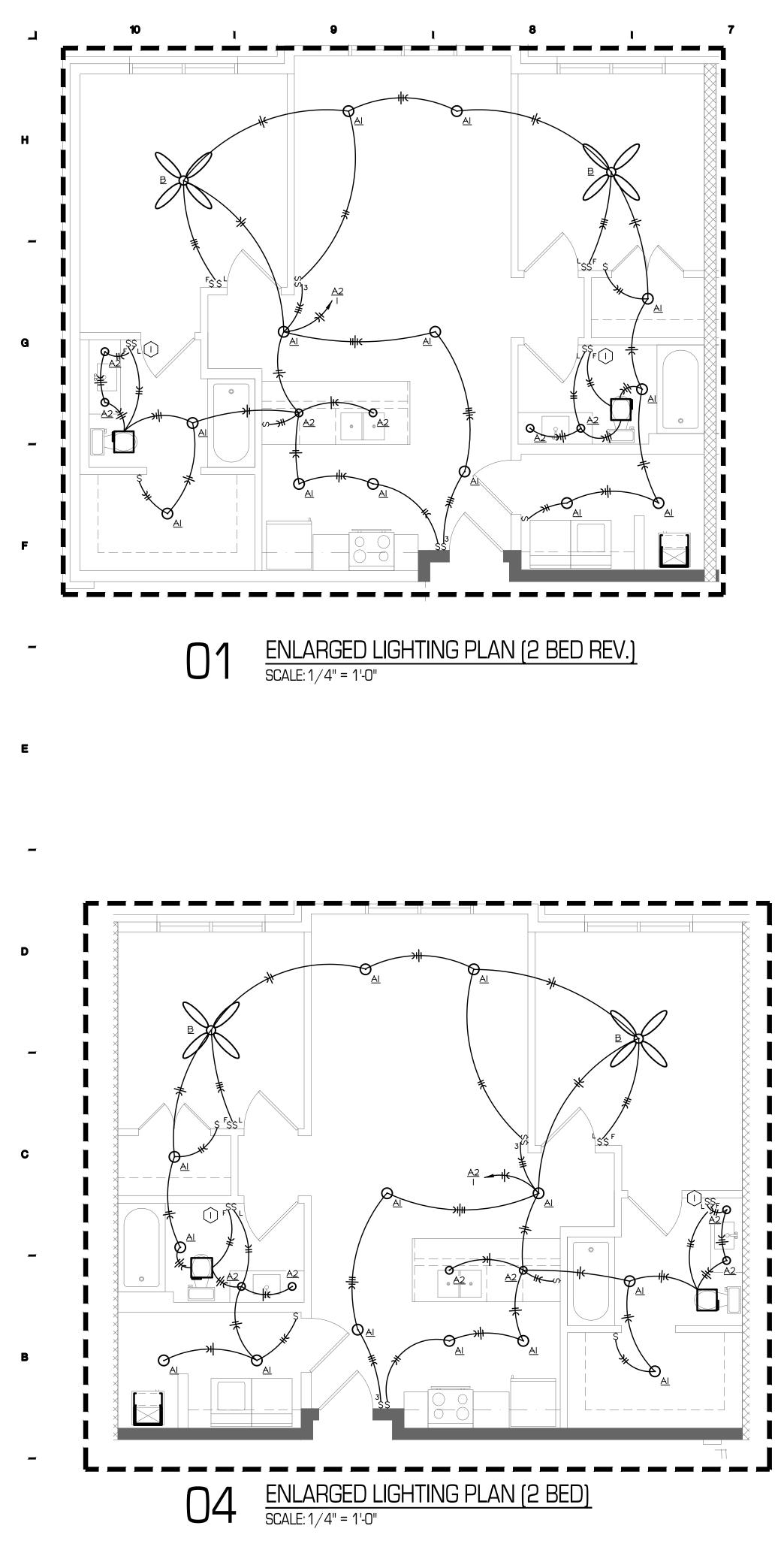




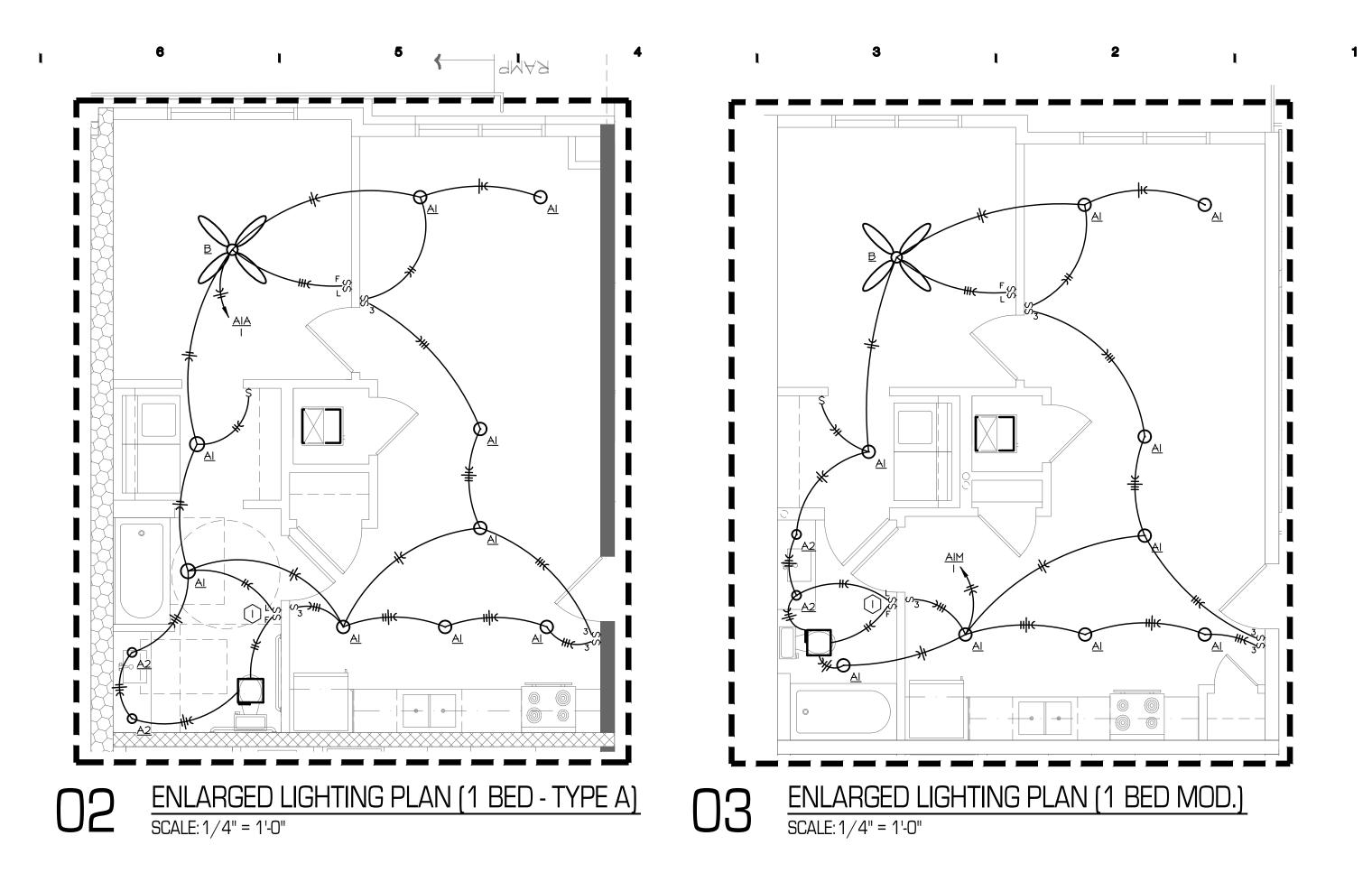
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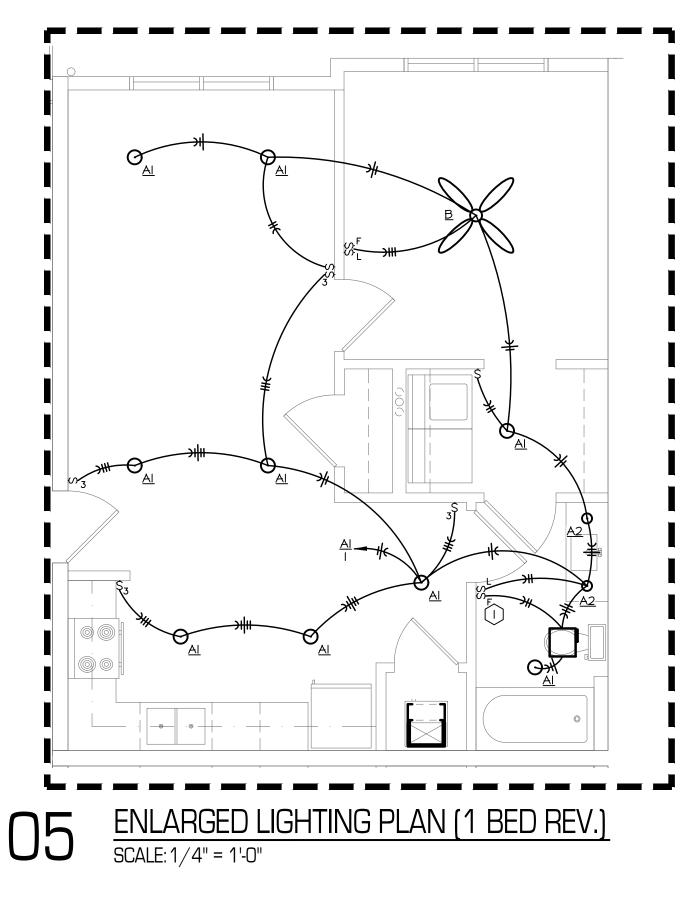
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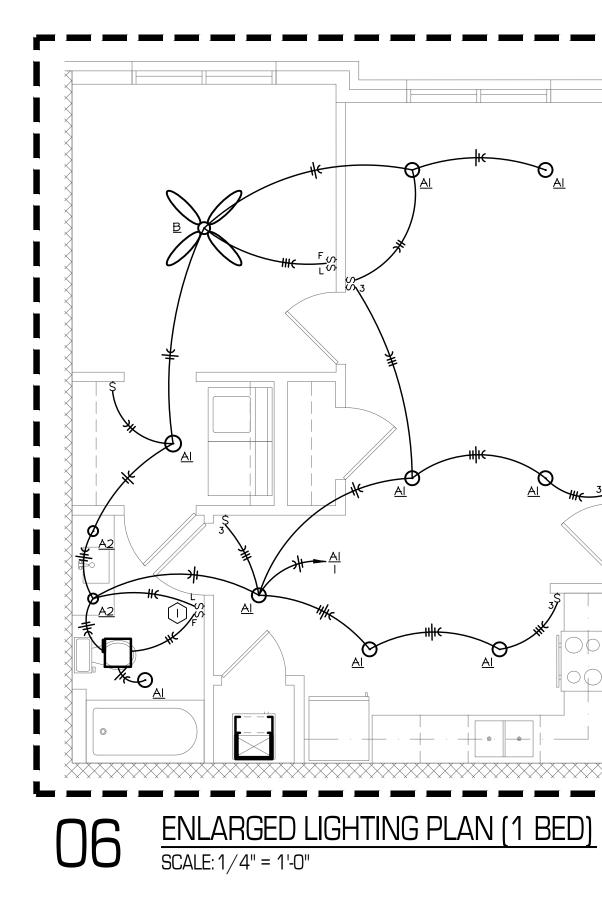




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GENERAL NOTES:

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- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.
 F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

I. PROVIDE SWITCH FOR OVERHEAD LIGHT AND A SEPARATE SWITCH FOR EXHAUST FAN.



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ENLARGED LIGHTING PLANS

ISSUE DATE: 02.04.2019

REVISIONS:



PROJECT NO.: 1803



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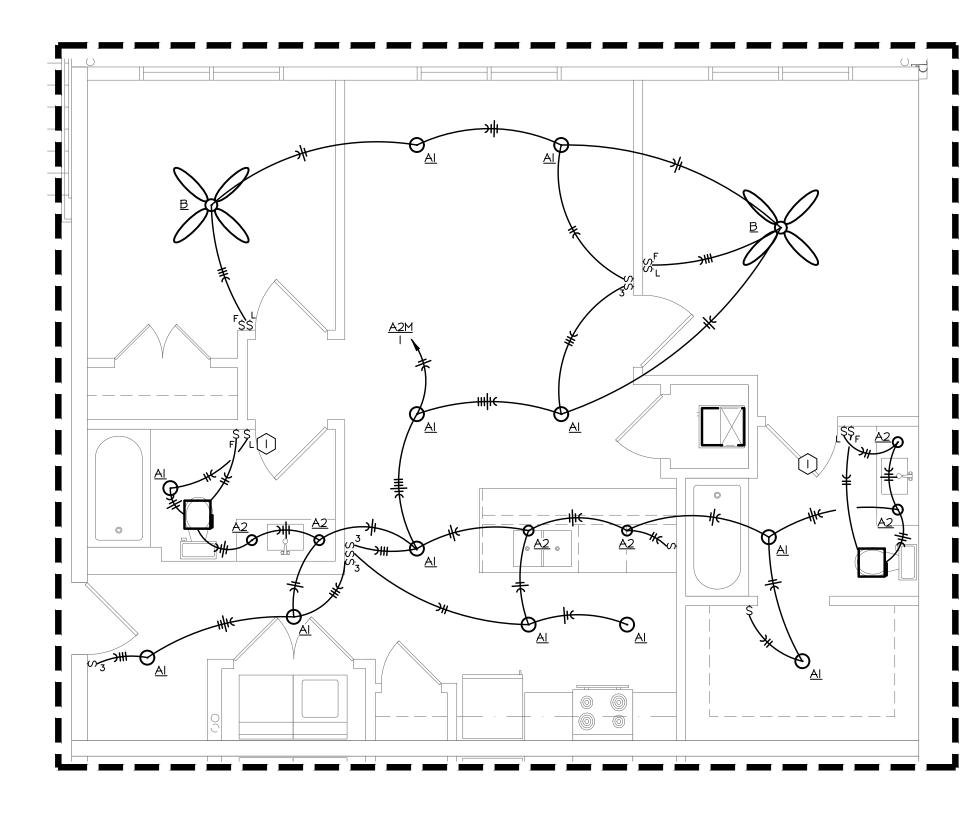


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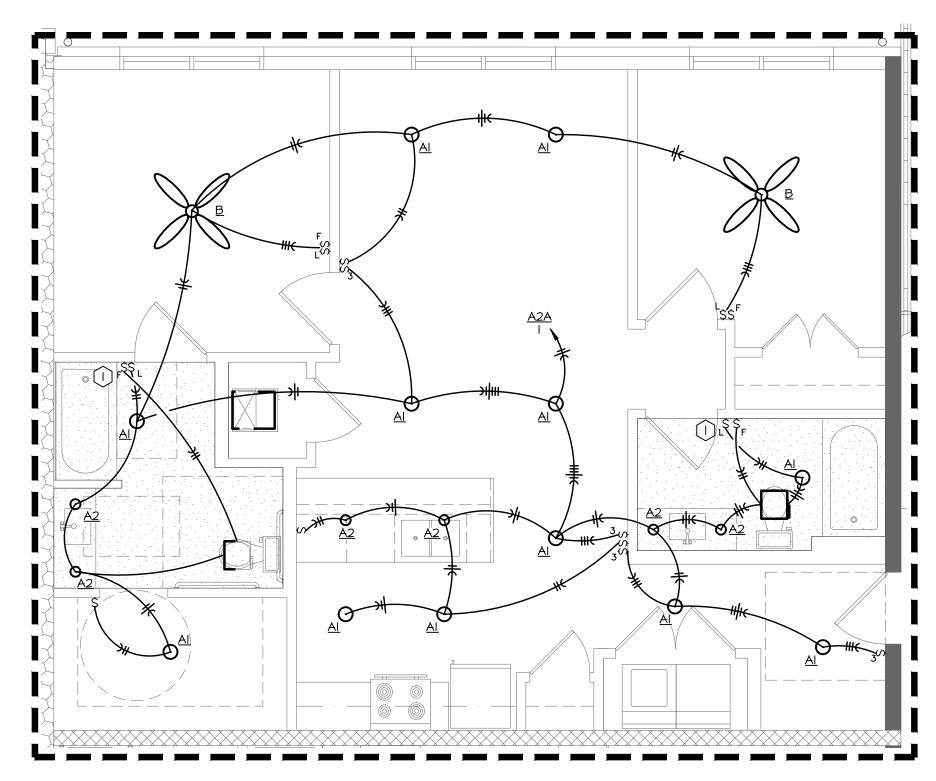
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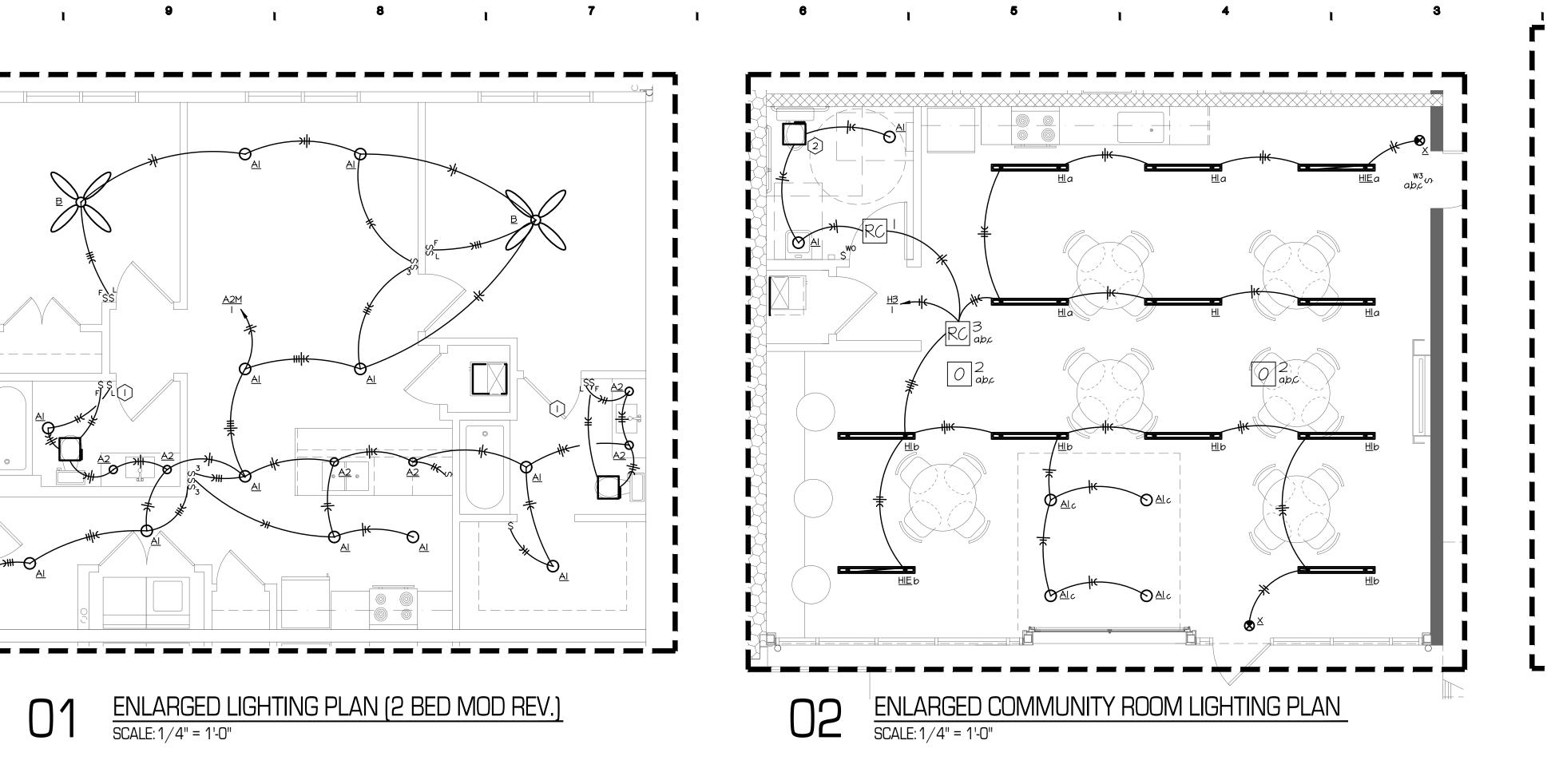
ENLARGED LIGHTING PLAN (2 BED MOD REV.) SCALE: 1/4" = 1'-0"

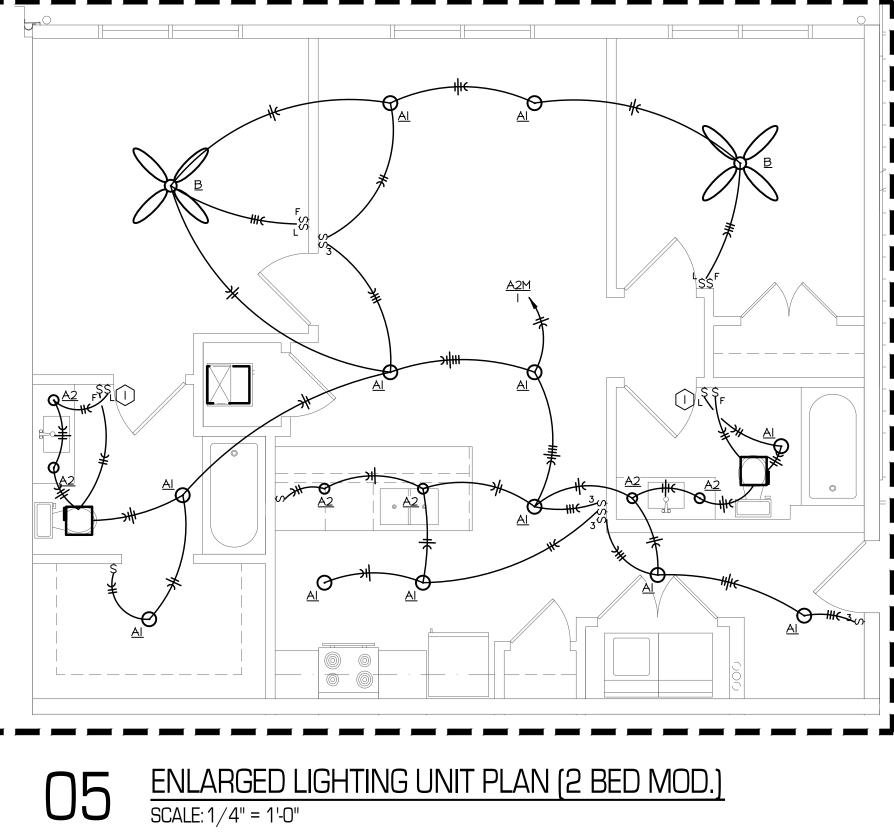


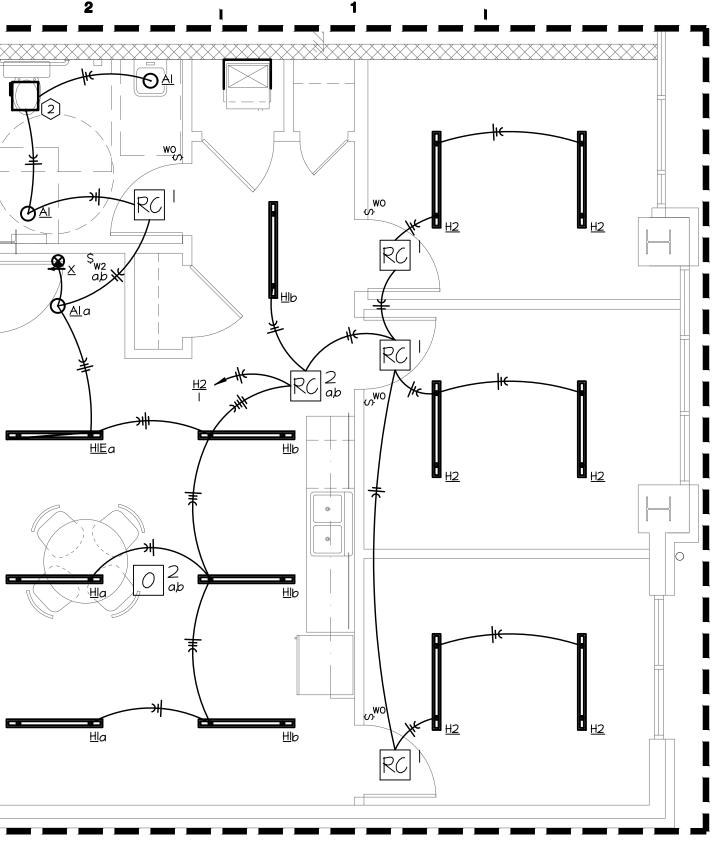
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ENLARGED ACCESSIBLE 2 BED LIGHTING PLAN SCALE: 1/4" = 1'-0"







ENLARGED OFFICE SUITE LIGHTING PLAN SCALE: 1/4" = 1'-0"

03

GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED. E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.
- F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

- PROVIDE SWITCH FOR OVERHEAD LIGHT AND A SEPARATE SWITCH FOR EXHAUST FAN.
- 2. EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS ARE ACTIVATED.



SEAL

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ENLARGED LIGHTING PLANS

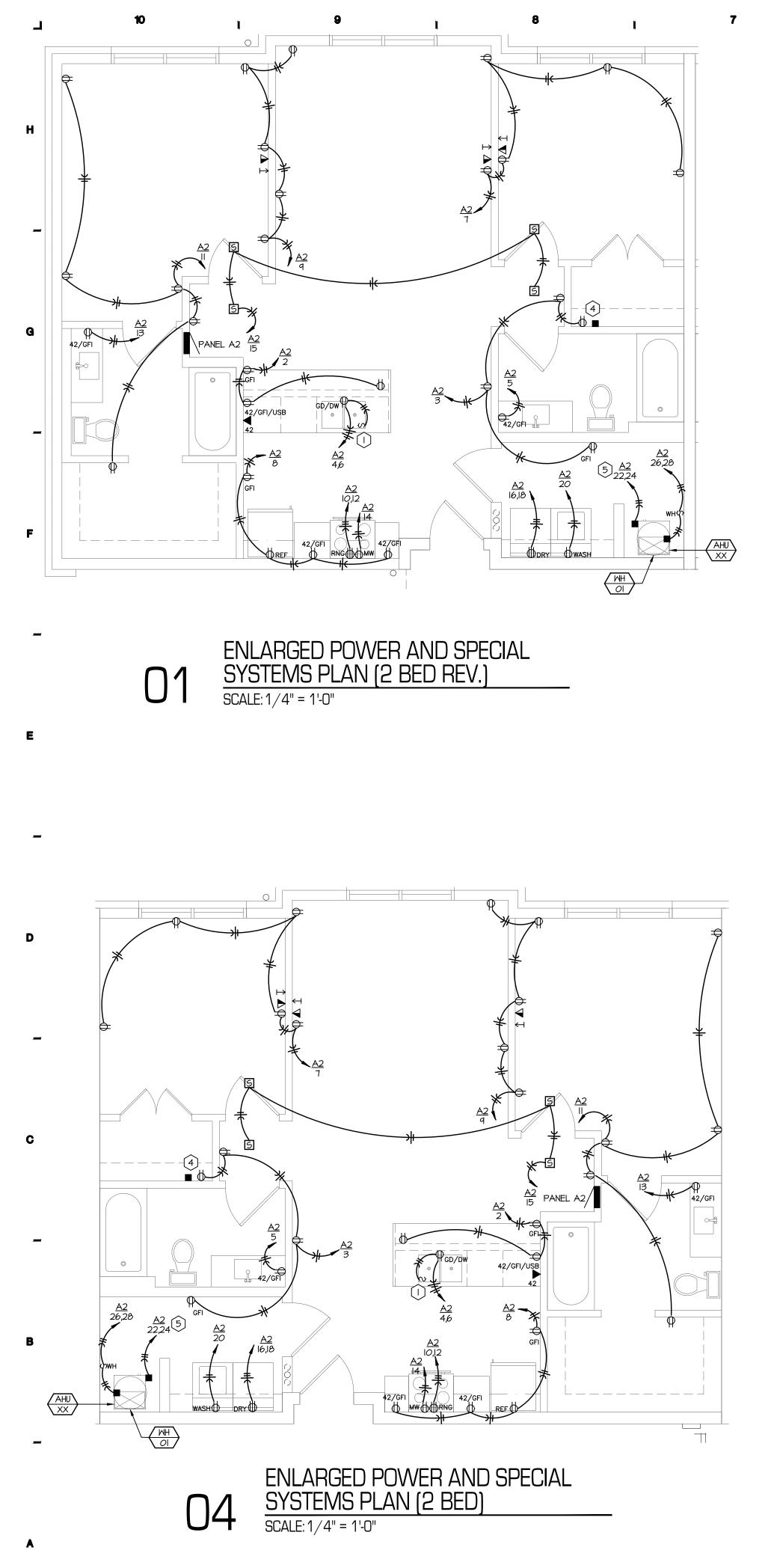
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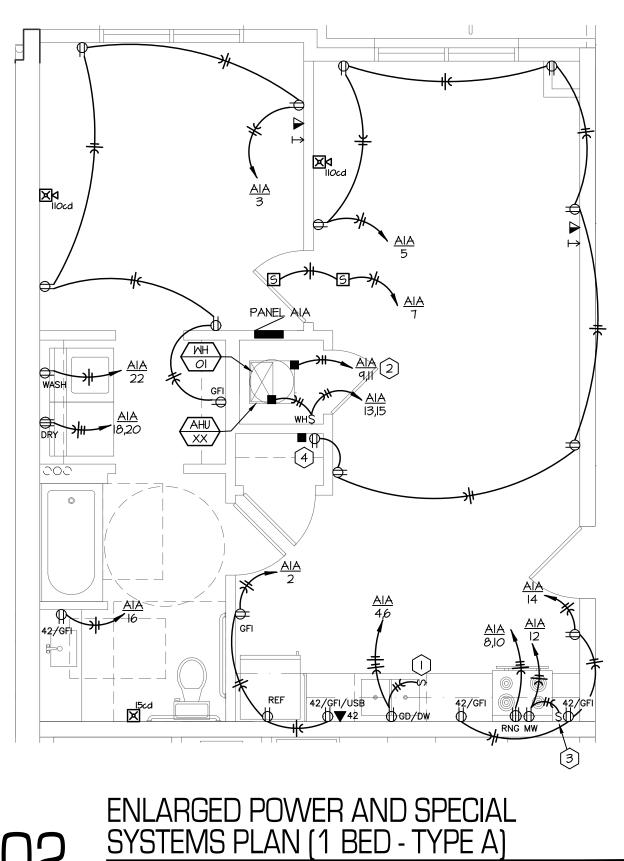
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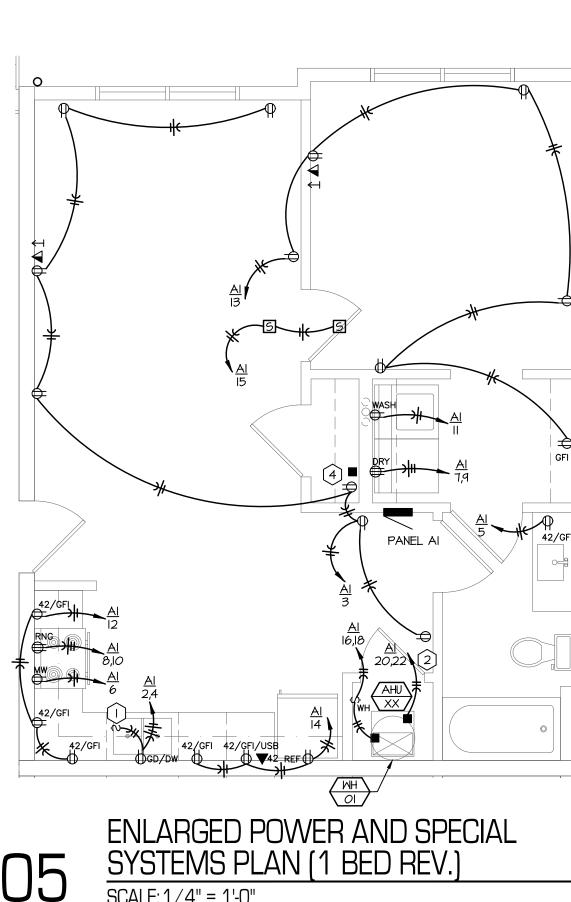
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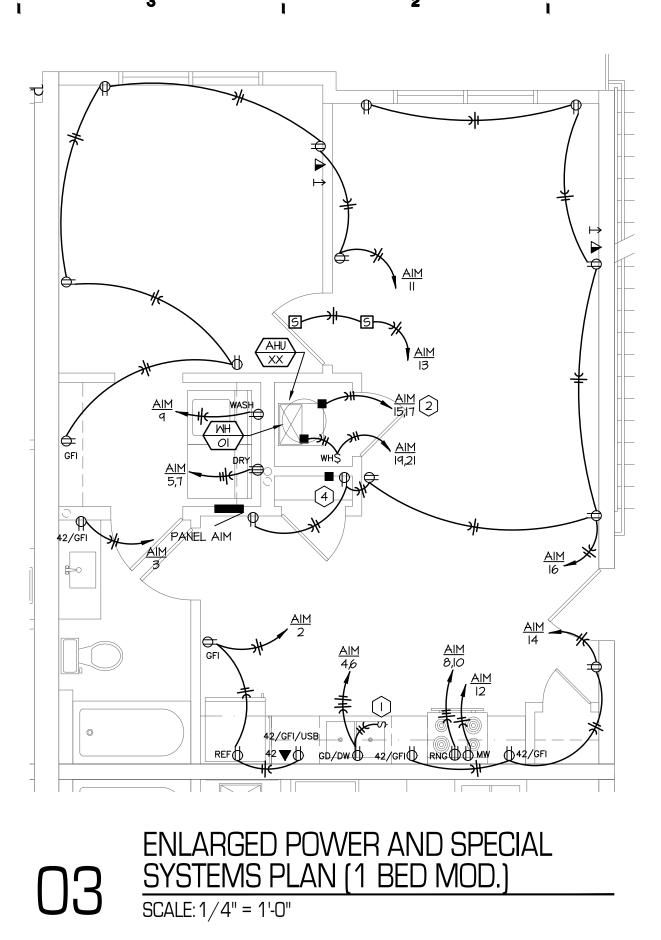
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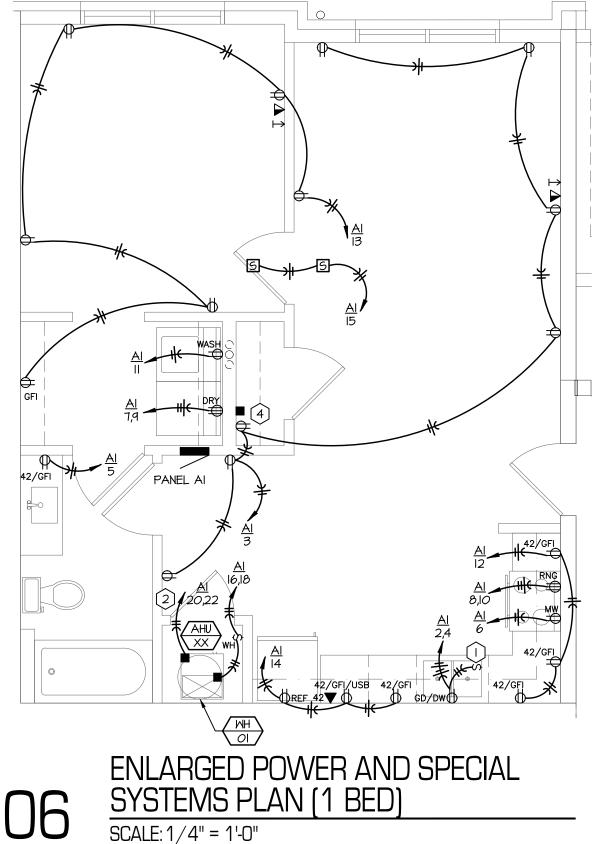
SCALE: 1/4" = 1'-0"







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GENERAL NOTES:

1

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS. C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWING
- DRAWINGS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES. F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL
- VOICE AND DATA OUTLET LOCATIONS. G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL DEVICES.
- L. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL CLOTHES DRYERS NOTED AS "DRY" SHALL BE 3#10 AND #10 IN 1/2" CONDUIT. PROVIDE 30A RECEPTACLE, NEMA 14-30R. INSTALL AT 48" AFF.
- M. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL WASHERS NOTED AS "WASH" SHALL BE A GFCI INSTALLED AT 48"AFF.
- N. ALL GARBAGE DISPOSAL/DISHWASHER RECEPTACLES (NOTED AS GD/DW) SHALL HAVE THE BOTTOM HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS ALWAYS HOT FOR THE DISHWASHER, AND THE TOP HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS SWITCHED AS INDICATED FOR THE GARBAGE DISPOSAL.
- O. ALL ELECTRICAL BRANCH CIRCUITS SERVING NON COMMERCIAL RANGES/STOVES (NOTED AS "RNG") SHALL BE (2) #8, (1) #10 NEUTRAL, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 50A RECEPTÁCLE, NÉMA 14-50R.
- P. ALL ELECTRICAL BRANCH CIRCUITS SERVING WATER HEATERS (NOTED AS "WH") SHALL BE (2) #10'S, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 30 AMP, 2-POLE TOGGLE SWITCH DISCONNECT.
- Q. ALL 120V, 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.
- R. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

- I. PROVIDE SURFACE MOUNTED TOGGLE SWITCH UNDER SINK FOR GARBAGE DISPOSAL.
- 2. MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#8 & #10 GROUND IN A 3/4" CONDUIT.
- 3. PROVIDE FAN AND LIGHT SWITCH FOR ADA RANGE EXHAUST HOOD.
- 4. PROVIDE RECEPTACLE FOR DATA AT 48" AFF. COORDINATE EXACT LOCATION WITH LOW VOLTAGE SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION. PROVIDE JUNCTION BOX AND I" CONDUIT BACK TO TELECOM CLOSET TO ALLOW FOR CABLING INSTALLATION.
- MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#6 & #10 GROUND IN A 3/4" CONDUIT.



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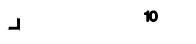
ENLARGED POWER PLANS

> ISSUE DATE: 02.04.2019

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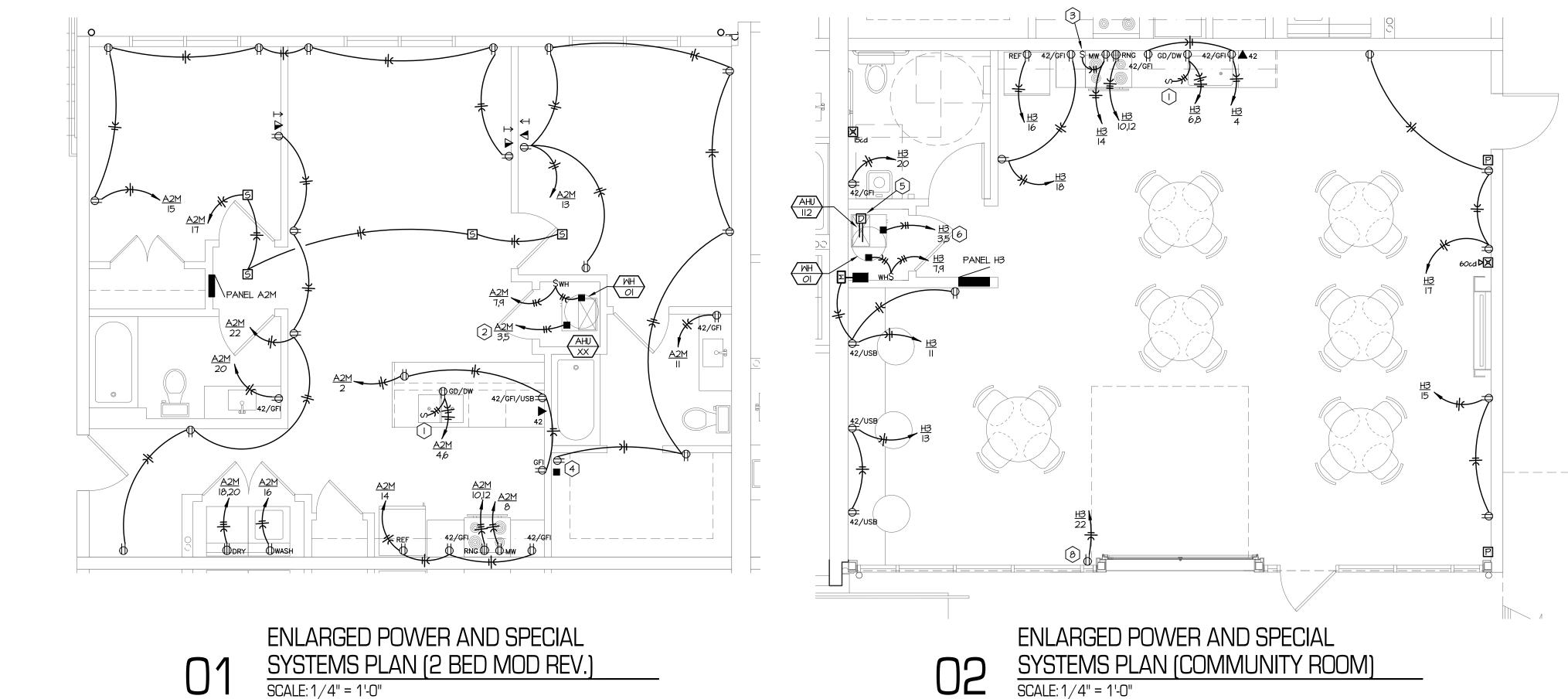


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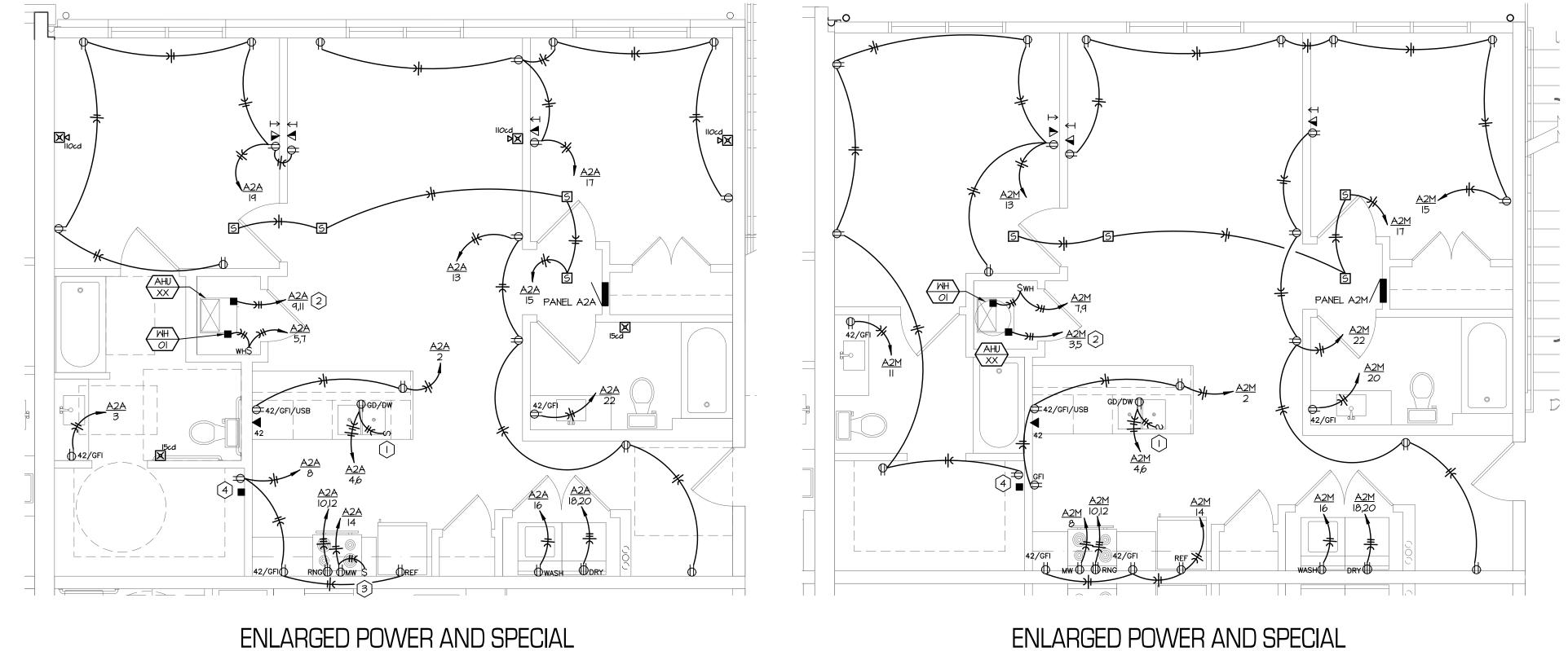
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ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED - TYPE A) SCALE: 1/4" = 1'-0"

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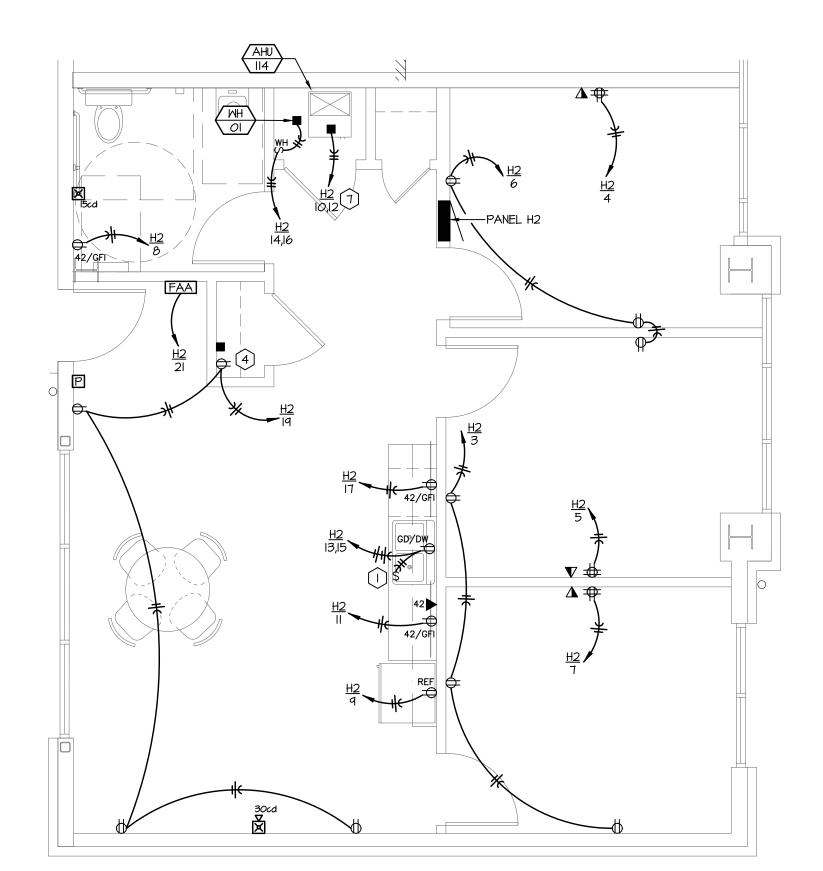
PLAN NOTES:

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- GARBAGE DISPOSAL. 2. MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#6 & #10 GROUND IN A 3/4" CONDUIT. 3. PROVIDE FAN AND LIGHT SWITCH FOR ADA RANGE EXHAUST
- HOOD. 4. PROVIDE RECEPTACLE FOR DATA AT 48" AFF. COORDINATE EXACT LOCATION WITH LOW VOLTAGE SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION, PROVIDE JUNCTION BOX AND I"
- CONDUIT BACK TO TELECOM CLOSET TO ALLOW FOR CABLING INSTALLATION. 5. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR ALL HVAC UNITS GREATER THAN 2000 CFM SUPPLY. DUCT DETECTORS WITH SHUT DOWN RELAY SHALL BE EQUAL TO SIMPLEX MODEL #4098-9756 WITH SAMPLING TUBE IN LENGTH PROPER FOR DUCT SIZE, #2098-9806 REMOTE KEYED TEST STATION WITH LED ALARM
- MONITORING. INTERLOCK WITH UNIT TO SHUT DOWN UPON ALARM.
- 6. PROVIDE 2#2 & I#8 GRD. IN I-I/4"C. 7. PROVIDE 2#3 & I#8 GRD. IN I-I/4"C. 8. INSTALL RECEPTACLE 6" BELOW FINISHED CEILING.





SYSTEMS PLAN (2 BED MOD.) SCALE: 1/4" = 1'-0"

03

I. PROVIDE SURFACE MOUNTED TOGGLE SWITCH UNDER SINK FOR

L.

GENERAL NOTES:

1

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- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE. H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT
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- SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER. J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL DEVICES.
- L. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL CLOTHES DRYERS NOTED AS "DRY" SHALL BE 3#10 AND #10 IN 1/2" CONDUIT, PROVIDE 30A RECEPTACLE, NEMA 14-30R. INSTALL AT 48" AFF.
- M. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL WASHERS NOTED AS "WASH" SHALL BE A GFCI INSTALLED AT 48"AFF. N. ALL GARBAGE DISPOSAL/DISHWASHER RECEPTACLES (NOTED
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- O. ALL ELECTRICAL BRANCH CIRCUITS SERVING NON COMMERCIAL RANGES/STOVES (NOTED AS "RNG") SHALL BE (2) #8, (1) #10 NEUTRAL, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 50A RECEPTÁCLE, NEMA 14-50R.
- P. ALL ELECTRICAL BRANCH CIRCUITS SERVING WATER HEATERS (NOTED AS "WH") SHALL BE (2) #10'S, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 30 AMP, 2-POLE TOGGLE SWITCH DISCONNECT.
- Q. ALL 120V, 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.
- R. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY. S. COORDINATE WITH CASEWORK INSTALLER LOCATION OF
- RECEPTACLES INSTALLED IN KITCHEN CASEWORK. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO INSTALLATION.

ENLARGED POWER AND SPECIAL SYSTEMS PLAN (OFFICE SUITE) SCALE: 1/4" = 1'-0"





MISSOURI CERTIFICATE OF AUTHORITY NO. 000073

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ENLARGED POWER PLANS

> ISSUE DATE: 02.04.2019 **REVISIONS:**





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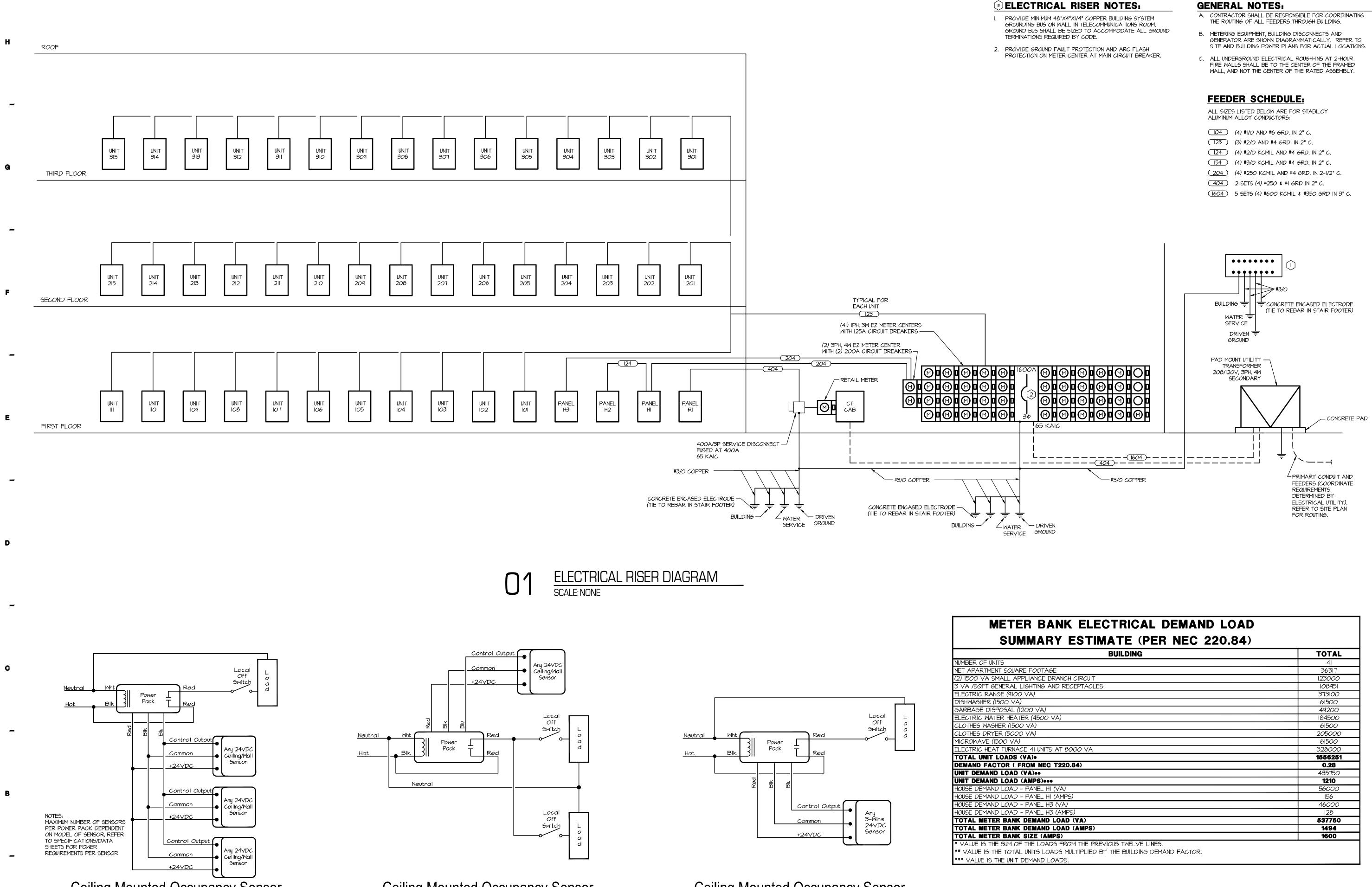
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Ceiling Mounted Occupancy Sensor 04 24v Mutiple Sensors Wiring Diagram

Ceiling Mounted Occupancy Sensor 03 24v Dual Level Switched Wiring Diagram

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Ceiling Mounted Occupancy Sensor 02 24v Wiring Diagram

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| 5 | ELECTRIC | CAL | DEMA | ND | LOAD |
|---|----------|------|-------|----|-------|
| E | STIMATE | (PEI | R NEC | 22 | 0.84) |

| BUILDING | TOTAL |
|------------|--------|
| | 41 |
| | 36317 |
| CH CIRCUIT | 123000 |
| ECEPTACLES | 108951 |
| | 373100 |
| | 61500 |
| | 49200 |
| | 184500 |
| | 61500 |
| | 205000 |
| | 61500 |
| 3000 VA | 328000 |
| | 155625 |
| 0.84) | 0.28 |
| | 435750 |
| | 1210 |
| | 56000 |
| PS) | 156 |
| | 46000 |
| PS) | 128 |
| D (VA) | 537750 |
| D (AMPS) | 1494 |
| | 1600 |



ARCHITECTS EST 1935 ARCHITECTURAL CORPORATION MISSOURI CERTIFICATE OF AUTHORITY NO. 000073 65802 MISSOURI **MENT** ARCHITECTS I 64112 - T 816.531. $\overline{\triangleleft}$ MOM \triangleleft SON DUNC Ш 1255 REEI \square \square \bigcirc \triangleleft \square C >SPRING

SEAL **ENGINEER - CASEY JOHN STEINER** MO. LICENSE NO. PE-2009035182 CASEYJOH



ELECTRICAL RISER **DIAGRAM & DETAILS**

ISSUE DATE:

02.04.2019 **REVISIONS:**





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| DESC | | 400A
MCB | 100% Neuti | r al | Bus | | | V | DLTAGE: 120/208V, 3PH, 4 V | VIRE | |
|------|----------------|-------------|------------|-------------|------|----|------|---|----------------------------|------------------|------|
| | | MCB | | | | | | т | DTAL CONNECTED LOAD: | 43k₩• | 120/ |
| 10 | kAIC RA | TING | | | | | | D | EMANDED LOAD CONTINUOUS | : 53k ₩ = | 148/ |
| | LOAD | LOAD | | | AMP | | AMP | | LOAD | LOAD | |
| NO | (W) | DESCRIPTION | | Ρ | SIZE | РН | SIZE | Ρ | DESCRIPTION | (W) | NO |
| | 224 | LIGHITING | | Τ | 20 | A | 20 | I | RECEPT - 113 | 1000 | 2 |
| 3 | | SPARE | | Ι | 20 | В | 20 | Ι | RECEPT - 113 | 1000 | 4 |
| 5 | | SPARE | | Ι | 20 | С | 20 | Ι | RECEPT/DAMPER - 113 | 460 | 6 |
| 7 | | SPARE | | Ι | 20 | A | 100 | 2 | AHU-113B | 10000 | 8 |
| 9 | | SPARE | | Ι | 20 | В | - | - | | 10000 | 10 |
| П | | SPARE | | Τ | 20 | C | 20 | Ι | RECEPT/DAMPER - 113 | 460 | 12 |
| 13 | | SPARE | | 1 | 20 | A | 100 | 2 | AHU-113A | 10000 | 4 |
| 15 | | SPARE | | 1 | 20 | В | - | 1 | | 10000 | 16 |
| 17 | | SPARE | | 1 | 20 | C | 50 | 2 | HP-113A | 2663 | 18 |
| 19 | | SPARE | | Ι | 20 | A | - | - | | 2663 | 20 |
| 21 | | SPARE | | 1 | 20 | В | 50 | 2 | HP-113B | 2663 | 22 |
| 23 | | SPARE | | Ι | 20 | С | - | - | | 2663 | 24 |
| 25 | | SPARE | | Ι | 20 | A | 20 | I | SPARE | | 26 |
| 27 | | SPARE | | Ι | 20 | В | 20 | I | SPARE | | 28 |
| 29 | | SPARE | | Ι | 20 | С | 20 | I | SPARE | | 30 |
| 31 | | SPARE | | Ι | 20 | A | 20 | Ι | SPARE | | 32 |
| 33 | | SPARE | | Ι | 20 | В | 20 | Ι | SPARE | | 34 |
| 35 | | SPARE | | Ι | 20 | C | 20 | | SPARE | | 36 |
| 37 | | SPARE | | 1 | 20 | A | 20 | I | SPARE | | 38 |
| 39 | | SPARE | | Ι | 20 | В | 20 | I | SPARE | | 40 |
| 41 | | SPARE | | 1 | 20 | С | 20 | 1 | SPARE | | 42 |

NOTES: I. PROVIDE AFCI TYPE CIRCUIT BREAKER 2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL H1

| DESC | RIPTION | : 200A 100% Neut
MCB | ra | l Bus | | | | OLTAGE: 120/208V, 3PH, 4 W
Otal connected load: | /IRE
48k W = | 124 |
|------|----------------|---------------------------|----|-------------|---|-------------|---|--|------------------------|-----|
| 10 | KAIC RA | TING | | | | | - | EMANDED LOAD CONTINUOUS | | |
| NO | LOAD
(W) | LOAD
DESCRIPTION | Ρ | AMP
Size | | AMP
Size | | LOAD
DESCRIPTION | LOAD
(W) | NO |
| | 460 | EXTERIOR SITE LIGHTING | Ι | 20 | A | 30 | 2 | EWH-02 | 2400 | 2 |
| 3 | 100 | EXTERIOR LTG TIMECLOCK | | 20 | В | - | - | | 2400 | 4 |
| 5 | 840 | BREEZEWAY LTG NORTH | | 20 | С | 30 | 2 | EWH-OI | 2400 | 6 |
| 7 | 1200 | BREEZEWAY LTG CENTRAL/SOU | Г₩ | 20 | A | - | - | | 2400 | 8 |
| 9 | | SPARE | | 20 | В | 20 | Ι | RECEPT - 119 | 1000 | 10 |
| | | SPARE | | 20 | С | 20 | 2 | RECEPT - 119 | 360 | 12 |
| 13 | | SPARE | | 20 | A | 20 | Ι | RECEPT - 119 | 180 | 4 |
| 15 | | SPARE | 1 | 20 | B | 20 | Ι | RECEPT - 119 | 500 | 16 |
| 17 | | SPARE | 1 | 20 | С | 20 | Ι | RECEPT - 121, 221, 321 | 900 | 18 |
| 19 | | SPARE | | 20 | A | 20 | Ι | RECEPT - 120, 220, 320 | 1440 | 20 |
| 21 | | SPARE | | 20 | В | 20 | Ι | RECEPT - 122, 222, 322 | 1440 | 22 |
| 23 | | SPARE | | 20 | С | 20 | 1 | FACP | 1000 | 24 |
| 25 | | SPARE | | 20 | A | 20 | Ι | RECEPTACLES - ROOF | 720 | 26 |
| 27 | | SPARE | | 20 | В | 20 | Ι | RECEPTACLES - ROOF | 900 | 28 |
| 29 | | SPARE | | 20 | С | 20 | Ι | SPARE | | 30 |
| 31 | | SPARE | | 20 | A | 20 | Ι | SPARE | | 32 |
| 33 | | SPARE | Ι | 20 | В | 20 | Ι | SPARE | | 34 |
| 35 | | SPARE | Ι | 20 | С | 20 | 1 | SPARE | | 36 |
| 37 | | SPARE | | 20 | A | 125 | 3 | PANEL H2 | - | 38 |
| 39 | | SPARE | Ι | 20 | В | - | - | | - | 40 |
| 41 | | SPARE | | 20 | C | - | - | | - | 42 |

NOTES: I. PROVIDE AFCI TYPE CIRCUIT BREAKER 2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| DESC | | 125A 100% N
MCB | leutra | l Bus | | | V | DLTAGE: 120/208V, 3PH, 4 V | VIRE | |
|------|---------|------------------------|--------|-------|----|------|---|---|----------------------------------|----|
| 10 | kaic ra | TING | | | | | | OTAL CONNECTED LOAD:
Emanded load continuous | 28k W=
1 32k W= | |
| | LOAD | LOAD | | AMP | | AMP | | LOAD | LOAD | |
| NO | (W) | DESCRIPTION | P | SIZE | PH | SIZE | Ρ | DESCRIPTION | (W) | NO |
| Ι | 521 | LIGHITNG - 114 | 1 | 20 | A | 20 | Π | SPARE | | 2 |
| 3 | 540 | RECEPTACLES -114 | | 20 | В | 20 | 1 | RECEPTACLES -114 | 360 | 4 |
| 5 | 360 | RECEPTACLES -114 | | 20 | С | 20 | | RECEPTACLES -114 | 540 | 6 |
| 7 | 360 | RECEPTACLES -114 | | 20 | A | 20 | 2 | RECEPTACLES -114 | 180 | 8 |
| ٩ | 500 | REFRIGERATOR -144 | | 20 | В | 80 | 2 | AHU-II4 | 7500 | 10 |
| | 180 | RECEPT - KITCHEN - 114 | | 20 | C | 1 | - | | 7500 | 12 |
| 13 | 1200 | GARBAGE DISP -144 | | 20 | < | 30 | 2 | WATER HEATER - 114 | 2250 | 4 |
| 15 | 1500 | DISHWASHER - 114 | | 20 | В | ١ | - | | 2250 | 16 |
| 17 | 180 | RECEPT - KITCHEN - 114 | | 20 | C | 45 | 2 | HP-114 | 2164 | 18 |
| 19 | 720 | RECEPTACLES -114 | | 20 | A | ١ | - | | 2164 | 20 |
| 21 | 1000 | FIRE ALARM ANUN. PNL. | | 20 | В | 20 | | SPARE | | 22 |
| 23 | | SPARE | | 20 | С | 20 | 1 | SPARE | | 24 |
| 25 | | SPARE | | 20 | A | 20 | Ī | SPARE | | 26 |
| 27 | | SPARE | | 20 | В | 20 | 1 | SPARE | | 28 |
| 29 | | SPARE | | 20 | С | 20 | | SPARE | | 30 |

2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

DANEL H3

| DESC | | 200A 100%
MCB | Neutra | l Bus | | | VOLTAGE: 120/208V, 3PH, 4 WIRE | | | | | | |
|------|---------|--------------------|--------|-------|----|------|--------------------------------|---|------|----|--|--|--|
| 10 | KAIC RA | TING | | | | | | OTAL CONNECTED LOAD:
Emanded load continuous | | | | | |
| | LOAD | LOAD | | AMP | | AMP | | LOAD | LOAD | | | | |
| NO | (W) | DESCRIPTION | P | SIZE | РН | SIZE | Р | DESCRIPTION | (W) | NO | | | |
| | 374 | LIGHITNG - 112 | 1 | 20 | A | 20 | 1 | SPARE | | 2 | | | |
| 3 | 10000 | AHU-112 | 2 | 100 | В | 20 | 1 | RECEPT - KITCHEN - 112 | 360 | 4 | | | |
| 5 | 10000 | | - | - | С | 20 | 1 | GARBAGE DISP - 112 | 1200 | 6 | | | |
| 7 | 2250 | WATER HEATER - 112 | 2 | 30 | A | 20 | 1 | DISHWASHER - 112 | 1500 | 8 | | | |
| ٩ | 2250 | | - | - | В | 50 | 2 | RANGE - 112 | 4550 | 10 | | | |
| | 460 | RECEPTACLES - 112 | 1 | 20 | С | - | - | | 4550 | 12 | | | |
| 13 | 360 | RECEPTACLES - 112 | 1 | 20 | A | 20 | 1 | MICROWAVE | 1000 | 14 | | | |
| 15 | 360 | RECAPTACLES - 112 | 1 | 20 | В | 20 | Τ | RECEPT - KITCHEN - 112 | 180 | 16 | | | |
| 17 | 540 | RECEPTACLES - 112 | | 20 | С | 20 | 1 | REFRIGERATOR - 112 | 500 | 18 | | | |
| 19 | 2663 | HP-112 | 2 | 50 | A | 20 | Π | RECEPTACLES - 112 | 180 | 20 | | | |
| 21 | 2663 | | - | - | В | 20 | 1 | RECEPT - FUTURE DOOR | 1000 | 22 | | | |
| 23 | | SPARE | 1 | 20 | С | 20 | Π | SPARE | | 24 | | | |
| 25 | | SPARE | 1 | 20 | A | 20 | | SPARE | | 26 | | | |
| 27 | | SPARE | 1 | 20 | В | 20 | 1 | SPARE | | 28 | | | |
| 29 | | SPARE | | 20 | C | 20 | | SPARE | | 30 | | | |

2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| | | | LAMP DATA | | | | | TOTAL | | |
|------|---------------|---------------------------------|-----------|------|-----------|-------|-----------|-------|---|-------|
| MARK | MANUFACTURER | MODEL | LUMENS | ТҮРЕ | COLOR (K) | VOLTS | MOUNTING | WATTS | DESCRIPTION | NOTES |
| Al | PHILIPS | STR830KIO | 1000 | LED | 3000 | 120 | SURFACE | 15 | 7" ROUND DOWNLIGHT | |
| A2 | PHILIPS | S5R830K7 | 650 | LED | 3000 | 120 | SURFACE | 10 | 5" ROUND DOWNLIGHT | |
| В | HUNTER | 59242 | 2000 | LED | 3000 | 120 | PENDANT | 86 | CEILING FAN W/LED | |
| HI | ALCON | 12122-4-R28W2800-35K | 2800 | LED | 3500 | UNV | PENDANT | 28 | 4' DOMED LINEAR PENDANT | 4 |
| HIE | ALCON | 12122-4-R28W2800-35K-EM | 2800 | LED | 3500 | UNV | PENDANT | 28 | 4' DOMED LINEAR PENDANT W/EMERGENCY BATTERY | 2,4 |
| H2 | ALCON | 12122-4-R40W4000-35K | 4000 | LED | 3500 | UNV | PENDANT | 40 | 4' DOMED LINEAR PENDANT | 4 |
| | WILLIAMS | 39-4-L30/835-A-DRV-UNV | 3000 | LED | 3500 | UNV | SURFACE | 25 | IX4 SURFACE MOUNT WRAP W/EMERGENCY BATTERY | |
| IE | WILLIAMS | 39-4-L30/835-A-EM/IOWLP-DRV-UNV | 3000 | LED | 3500 | UNV | SURFACE | 25 | IX4 SURFACE MOUNT WRAP | |
| SA | MCGRAW EDISON | GWC-AF-OI-LED-EI-SL3 | 6360 | LED | 4000 | UNV | WALL | 57 | EXTERIOR WALL PACK | |
| Х | WILLIAMS | EXIT-R-EM-WHT-D | - | LED | - | UNV | SEE PLANS | 4 | LED EXIT SIGN W/EMERGENCY BATTERY | 1,3 |

NOTES:

I PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.

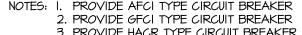
2 PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK-UP DRIVER. 3 PROVIDE WITH SELF-TESTING / SELF-DIAGNOSTICS.

4 SUSPEND FIXTURE &'-O" ABOVE FINISH FLOOR.

GENERAL NOTES:

- A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
- B. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
- C. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES. D. MANUFACTURER EQUALS ACCEPTED UPON ENGINEERS APPROVAL.
- E. CONTRACTOR SHALL VERIFY FINISH WITH ARCHITECT PRIOR TO SUBMITTAL.

| DESC | CRIPTION | 125A 100
MCB | % Neutra | l Bus | | | V | VOLTAGE: 120/208V, 1PH, 3 WIRE | | | | | |
|------|----------|------------------|----------|-------|----|------|---|---|-------------------|----|--|--|--|
| 10 | kaic ra | TING | | | | | - | OTAL CONNECTED LOAD:
Emanded load continuous | 38kW=
3: 23kW= | | | | |
| | LOAD | LOAD | | AMF | > | AMP | | LOAD | LOAD | | | | |
| NO | (W) | DESCRIPTION | P | SIZE | РН | SIZE | Р | DESCRIPTION | (W) | NO | | | |
| | 489 | LIGHTING | 1 | 20 | A | 20 | T | RECEPT - KITCHEN | 540 | 2 | | | |
| 3 | 720 | RECEPTACLES | | 20 | В | 20 | 1 | GARBAGE DISPOSAL | 1200 | 4 | | | |
| 5 | 180 | RECEPT - BATH RM | | 20 | A | 20 | T | DISHWASHER | 1500 | 6 | | | |
| 7 | 900 | RECEPTACLES | 1 | 20 | В | 20 | 1 | RECEPT - KITCHEN | 720 | 8 | | | |
| 9 | 900 | RECEPTACLES | | 20 | A | 50 | 2 | RANGE | 4550 | 10 | | | |
| | 900 | RECEPTACLES | | 20 | В | - | - | | 4550 | 12 | | | |
| 13 | 180 | RECPT - BATH RM | | 20 | A | 20 | 1 | MICROWAVE | 1000 | 4 | | | |
| 15 | 1000 | SMOKE DETECTORS | | 20 | B | 30 | 2 | DRYER | 2500 | 16 | | | |
| 17 | 1165 | HP-XXX | 2 | 25 | A | - | - | | 2500 | 18 | | | |
| 19 | 1165 | | - | - | В | 20 | | WASHER | 1500 | 20 | | | |
| 21 | | SPARE | | 20 | A | 45 | 2 | AHU-XXX | 4000 | 22 | | | |
| 23 | | SPARE | | 20 | В | - | - | | 4000 | 24 | | | |
| 25 | | SPARE | | 20 | A | 30 | 2 | WATER HEATER | 2250 | 26 | | | |
| 27 | | SPARE | | 20 | B | - | - | | 2250 | 28 | | | |
| 29 | | SPARE | 1 | 20 | A | 20 | | SPARE | | 30 | | | |



| DES | CRIPTION | 125A 100
MCB | % Neutra | l Bus | | | V | OLTAGE: 120/208V, 1PH, 3 | WIRE | |
|-----|----------|------------------|----------|-------|----|------|---|---|-------------------|----|
| 10 | kaic ra | TING | | | | | | OTAL CONNECTED LOAD:
Emanded load continuous | 37kW=
S: 23kW= | |
| | LOAD | LOAD | | | | AMP | - | LOAD | | |
| NO | (W) | DESCRIPTION | P | SIZE | РН | SIZE | Р | DESCRIPTION | (W) | NO |
| 1 | 474 | LIGHTING | 1 | 20 | A | 20 | T | RECEPT - KITCHEN | 360 | 2 |
| 3 | 180 | RECEPT - BATH RM | 1 | 20 | В | 20 | 1 | GARBAGE DISPOSAL | 1200 | 4 |
| 5 | 2250 | WATER HEATER | | 20 | A | 20 | T | DISHWASHER | 1500 | 6 |
| 7 | 2250 | | | 20 | В | 20 | Π | RECEPT - KITCHEN | 540 | 8 |
| ٩ | 4000 | AHU-XXX | 1 | 20 | A | 50 | 2 | RANGE | 4550 | 10 |
| | 4000 | | 1 | 20 | В | - | - | | 4550 | 12 |
| 13 | 720 | RECEPTACLES | 1 | 20 | A | 20 | Π | MICROWAVE | 1000 | 4 |
| 15 | 1000 | SMOKE DETECTORS | 1 | 20 | В | 20 | 1 | WASHER | 1500 | 16 |
| 17 | 1080 | RECEPTACLES | 1 | 20 | A | 30 | 2 | DRYER | 2500 | 18 |
| 19 | 1080 | RECEPTACLES | 1 | 20 | В | - | - | | 2500 | 20 |
| 21 | 65 | HP-XXX | 2 | 25 | A | 20 | Ι | RECEPT - BATH RM | 180 | 22 |
| 23 | 65 | | - | - | В | 20 | Ι | SPARE | | 24 |
| 25 | | SPARE | 1 | 20 | A | 20 | Ι | SPARE | | 26 |
| 27 | | SPARE | 1 | 20 | В | 20 | Ι | SPARE | | 28 |
| 29 | | SPARE | | 20 | A | 20 | Ι | SPARE | | 30 |

2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| P/ | NEL | A2M (LOAI | D CE | ENT | ΓE | ER) |) | | | |
|-----|----------------|------------------|--------|-------|----|------|---|---|--------------|----|
| DES | CRIPTION | 125A 100%
MCB | Neutra | l Bus | | | V | OLTAGE: 120/208V, 1PH, 3 W | /IRE | |
| 10 | KAIC RA | TING | | | | | | OTAL CONNECTED LOAD:
Emanded load continuous | | |
| | | LOAD | | AMP | | AMP | — | | | |
| NO | (W) | DESCRIPTION | P | SIZE | РН | SIZE | Р | DESCRIPTION | (W) | NO |
| | 474 | LIGHTING | | 20 | A | 20 | 1 | RECEPT - KITCHEN | 540 | 2 |
| 3 | 4000 | AHU-XXX | 2 | 45 | В | 20 | Τ | GARBAGE DISPOSAL | 1200 | 4 |
| 5 | 4000 | | - | - | A | 20 | Τ | DISHWASHER | 1500 | 6 |
| 7 | 2250 | WATER HEATER | 2 | 30 | В | 20 | Ι | MICROWAVE | 1000 | 8 |
| ٩ | 2250 | | - | - | A | 50 | 2 | RANGE | 4550 | 10 |
| | 180 | RECEPT - BATH RM | | 20 | В | - | - | | 4550 | 12 |
| 13 | 1260 | RECEPTACLES | 1 | 20 | A | 20 | | RECEPT - KITCHEN | 540 | 4 |
| 15 | 1080 | RECEPTACLES | 1 | 20 | В | 20 | 1 | WASHER | 1500 | 16 |
| 17 | 1000 | SMOKE DETECTORS | 1 | 20 | A | 30 | 2 | DRYER | 2500 | 18 |
| 19 | 1165 | HP-XXX | 2 | 25 | В | - | - | | 2500 | 20 |
| 21 | 1165 | | - | - | A | 20 | | RECEPTACLES | 900 | 22 |
| 23 | | SPARE | | 20 | В | 20 | | RECEPT - BATH RM | 180 | 24 |
| 25 | | SPARE | | 20 | A | 20 | | SPARE | | 26 |
| 27 | | SPARE | | 20 | В | 20 | | SPARE | | 28 |
| 29 | | SPARE | | 20 | A | 20 | Ι | SPARE | | 30 |

NOTES: I. PROVIDE AFCI TYPE CIRCUIT BREAKER 2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| | | A1 (LOAD
125A 100%
MCB | Neutral | | K |) | V | DLTAGE: 120/208V, 1PH, 3 W | /IRE | |
|----|---------|------------------------------|---------|------|----|------|---|---|------------------|----|
| 10 | kaic ra | | | | | | - | DTAL CONNECTED LOAD,
Emanded load continuous | 36kW=
: 23kW= | |
| | LOAD | LOAD | | AMP | | AMP | | LOAD | LOAD | |
| NO | (W) | DESCRIPTION | P | SIZE | РН | SIZE | Ρ | DESCRIPTION | (W) | NO |
| - | 272 | LIGHTING | | 20 | A | | | GARBAGE DISPOSAL | 1200 | 2 |
| 3 | 1260 | RECEPTACLES | 1 | 20 | в | 20 | Ι | DISHWASHER | 1500 | 4 |
| 5 | 180 | RECEPT - BATH RM | | 20 | A | 20 | Ι | MICROWAVE | 1000 | 6 |
| 7 | 2500 | DRYER | 2 | 30 | В | 50 | 2 | RANGE | 4550 | 8 |
| 9 | 2500 | | - | - | A | - | - | | 4550 | 10 |
| | 1500 | WASHER | | 20 | В | 20 | Ι | RECEPT - KITCHEN | 540 | 12 |
| 13 | 1080 | RECEPTACLES | 1 | 20 | A | 20 | Ι | RECEPT - KITCHEN | 540 | 4 |
| 15 | 500 | SMOKE DETECTORS | | 20 | В | 30 | 2 | WATER HEATER | 2250 | 16 |
| 17 | | SPARE | | 20 | A | - | - | | 2250 | 18 |
| 19 | | SPARE | | 20 | В | 40 | 2 | AHU-XXX | 4000 | 20 |
| 21 | | SPARE | 1 | 20 | A | - | - | | 4000 | 22 |
| 23 | | SPARE | | 20 | В | 20 | 2 | HP-XXX | 749 | 24 |
| 25 | | SPARE | | 20 | A | - | - | | 749 | 26 |
| 27 | | SPARE | | 20 | В | 20 | | SPARE | | 28 |
| 29 | | SPARE | | 20 | A | 20 | 1 | SPARE | | 30 |

NOTES: I. PROVIDE AFCI TYPE CIRCUIT BREAKER 2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| DES | | 125A 100%
MCB | Neutra | Bus | | | DLTAGE: 120/208V, 1PH, 3 | 08V, 1PH, 3 WIRE | | |
|-----|---------|------------------|---------------|-----|----------|----|--------------------------|------------------------|---------|------|
| | | | | | | | | OTAL CONNECTED LOAD | | |
| 10 | KAIC RA | | | AMP | , | | | EMANDED LOAD CONTINUOU | Si 23kW | 109A |
| NO | (W) | DESCRIPTION | | | | | | DESCRIPTION | (W) | NO |
| | 272 | LIGHTING | 1 | 20 | A | 20 | 1 | RECEPT - KITCHEN | 540 | 2 |
| 3 | 900 | RECEPTACLES | 1 | 20 | В | 20 | 1 | GARBAGE DISPOSAL | 1200 | 4 |
| 5 | 1260 | RECEPTACLES | 1 | 20 | A | 20 | 1 | DISHWASHER | 1500 | 6 |
| 7 | 500 | SMOKE DETECTORS | 1 | 20 | В | 50 | 2 | RANGE | 4550 | 8 |
| 9 | 4000 | AHU-XXX | 2 | 40 | A | - | - | | 4550 | 10 |
| | 4000 | | - | 1 | В | 20 | 1 | MICROWAVE | 1000 | 12 |
| 13 | 2250 | WATER HEATER | 2 | 30 | A | 20 | 1 | RECEPT - KITCHEN | 540 | 14 |
| 15 | 2250 | | - | 1 | В | 20 | 1 | RECEPT - BATH RM | 180 | 16 |
| 17 | 749 | HP-XXX | 2 | 20 | A | 30 | 2 | DRYER | 2500 | 18 |
| 19 | 749 | | - | 1 | В | - | - | | 2500 | 20 |
| 21 | | SPARE | 1 | 20 | A | 20 | 1 | WASHER | 1500 | 22 |
| 23 | | SPARE | 1 | 20 | В | 20 | Ι | SPARE | | 24 |
| 25 | | SPARE | | 20 | A | 20 | Ι | SPARE | | 26 |
| 27 | | SPARE | | 20 | В | 20 | Ι | SPARE | | 28 |
| 29 | | SPARE | | 20 | A | 20 | 1 | SPARE | | 30 |

2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER

| DESC | RIPTION | 125A
MCB | 100% Neutra | n Bu | 8 | | V | DLTAGE: 120/208V, 1PH, (| 3 WIRE | |
|------|---------|------------------|-------------|------------|-------|------|---|--------------------------|--------|------|
| | | | | | | | | DTAL CONNECTED LOAD: | | |
| 10 | KAIC RA | | | | | | | EMANDED LOAD CONTINUO | | 109/ |
| | LOAD | LOAD | | AN | או | AMP | | LOAD | | |
| NO | (W) | DESCRIPTION | P | SIZ | :Epi | SIZE | Ρ | DESCRIPTION | (W) | NO |
| Ι | 272 | LIGHTING | 1 | 20 | | 20 | | RECEPT - KITCHEN | 540 | 2 |
| 3 | 180 | RECEPT - BATH RM | | 20 | | 20 | Ι | GARBAGE DISPOSAL | 1200 | 4 |
| 5 | 2500 | DRYER | 2 | 30 | | 20 | Ι | DISHWASHER | 1500 | 6 |
| ٦ | 2500 | | - | - | B | 50 | 2 | RANGE | 4550 | 8 |
| ٩ | 1500 | WASHER | | 20 |) A | - 1 | I | | 4550 | 10 |
| | 1020 | RECEPTACLES | | 20 | | 20 | 2 | MICROWAVE | 1000 | 12 |
| ß | 500 | SMOKE DETECTORS | | 20 |) A | 20 | - | RECEPT - KITCHEN | 540 | 14 |
| 15 | 4000 | AHU-XXX | 2 | 40 | | 20 | - | RECEPTACLES | 1260 | 16 |
| 17 | 4000 | | - | - | A | 20 | - | SPARE | | 18 |
| ١٩ | 2250 | WATER HEATER | 2 | 30 | | 20 | - | SPARE | | 20 |
| 21 | 2250 | | - | - | A | 20 | | SPARE | | 22 |
| 23 | 749 | HP-XXX | 2 | 20 | | 20 | | SPARE | | 24 |
| 25 | 749 | | - | - | A | 20 | | SPARE | | 26 |
| 27 | | SPARE | | 20 | | 20 | | SPARE | | 28 |
| 29 | | SPARE | | 20 | | 20 | Ι | SPARE | | 30 |

NOTES: I. PROVIDE AFCI TYPE CIRCUIT BREAKER

2. PROVIDE GFCI TYPE CIRCUIT BREAKER 3. PROVIDE HACR TYPE CIRCUIT BREAKER



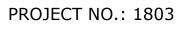


SEAL ENGINEER - CASEY JOHN STEINER MO. LICENSE NO. PE-2009035182



ELECTRICAL SCHEDULES

ISSUE DATE: 02.04.2019 **REVISIONS:**





| MECHA | NICAL EQUIPMENT ANI | D ELECTRICAL CONNEC | TION S | CHEDU | LE | | | | | | | | | | | |
|------------------|------------------------|---------------------|----------------|-------|----|----------------------|----------------|--------------------|-------|----|----------------------------|--------------|---|----------------------------|---|------------|
| | EQUIPMENT | - F | | LOAD | | I | | | | | | | | | TER/DISCONNECT | |
| MARK | DESCRIPTION | LOCATION | | | | RATING I
(MCA) (A | | FROM
ME CKT. No | . No. | 1 | UCTORS & COND
GROUND CO | | | | DISCONNECT SWITCH
FUSE (A) POLES NEMA EN. VI | D NOTES |
| | | | | | | | | | | | | | | | | |
| HP-IOI | | ROOFTOP | 208/1 | - | - | | 25 A | 2 17,19 | 2 | 12 | 10 | I/2" | - | - 30 | - 2 3R | - |
| HP-102
HP-103 | | ROOFTOP | 208/1 | - | - | 4 | 25 A | 2 17,19
2 1719 | 2 | 12 | 10 | /2"
 /2" | - | - 30 | - 2 3R | - |
| HP-103
HP-104 | HEAT PUMP
HEAT PUMP | ROOFTOP
ROOFTOP | 208/I
208/I | - | - | 14 | 25 A
25 A | 2 17,19 | 2 | 12 | 10 | 1/2"
1/2" | - | - <u>30</u>
- <u>30</u> | - 2 3R | - |
| HP-104
HP-105 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 25 A
20 A | Al 24,26 | 2 | 12 | | 1/2" | - | - <u>50</u>
- <u>30</u> | - 2 3R | - |
| HP-106 | HEAT PUMP | ROOFTOP | 208/1 | | | | 20 P
20 A | 4 24,20 | 2 | 12 | 12 | 1/2" | _ | - 30 | | - |
| HP-107 | HEAT PUMP | ROOFTOP | 208/1 | | | | 20 F
20 A | 4 24,20 | 2 | 12 | 12 | 1/2" | _ | - 30 | | - |
| HP-IO8 | HEAT PUMP | ROOFTOP | 208/1 | | | | 20 F
20 A | ×I 24,26 | 2 | 12 | | 1/2" | _ | - 30 | | - |
| HP-IO9 | HEAT PUMP | ROOFTOP | 208/1 | | | | 20 /
20 A | ×I 24,26 | 2 | 12 | | 1/2" | _ | - 30 | - 2 3R | - |
| HP-IIO | HEAT PUMP | ROOFTOP | 208/1 | | _ | | | IA 17,19 | 2 | 12 | | 1/2" | | - 30 | - 2 3R | - |
| | HEAT PUMP | ROOFTOP | 208/1 | | _ | | 25 A2 | 2A 21,23 | 2 | 12 | 12 | 1/2" | | - 30 | - 2 3R | - |
| HP-II2 | HEAT PUMP | ROOFTOP | 208/1 | _ | _ | | 50 H | | 2 | 8 | 10 | 3/4" | | - 60 | - 2 3R | - |
| HP-II3A | HEAT PUMP | ROOFTOP | 208/1 | _ | _ | | 50 R | RI 18,20 | 2 | 8 | | 3/4" | | - 60 | - 2 3R | - |
| HP-II3B | HEAT PUMP | ROOFTOP | 208/1 | _ | _ | | 50 R | RI 22,24 | 2 | 8 | 10 | 3/4" | _ | - 60 | - 2 3R | - |
| HP-II4 | HEAT PUMP | ROOFTOP | 208/1 | _ | _ | | 45 H | 12 18,20 | 2 | 10 | 10 | 1/2" | _ | - 60 | - 2 3R | - |
| HP-201 | HEAT PUMP | ROOFTOP | 208/1 | - | _ | | 25 A | | 2 | 12 | 10 | 1/2" | _ | - 30 | - 2 3R | - |
| HP-202 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | | 2 17,19 | 2 | 12 | 10 | 1/2" | _ | - 30 | - 2 3R | - |
| HP-203 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | | 2 17,19 | 2 | 12 | | 1/2" | _ | - 30 | - 2 3R | - |
| HP-204 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-205 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 9 | 20 A | 4 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-206 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 9 | 20 A | 4 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-207 | HEAT PUMP | ROOFTOP | 208/1 | - | - | ٩ | 20 A | 4 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-208 | HEAT PUMP | ROOFTOP | 208/1 | - | - | ٩ | 20 A | 41 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-209 | HEAT PUMP | ROOFTOP | 208/1 | - | - | ٩ | 20 A | 41 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-210 | HEAT PUMP | ROOFTOP | 208/1 | - | - | ٩ | 20 AI | IM 23,25 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-211 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A2 | 2M 19,21 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-212 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A2 | 2M 19,21 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-213 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A | 2 17,19 | 2 | 12 | IO | 1/2" | - | - 30 | - 2 3R | - |
| HP-214 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-215 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-301 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 20 / 1 | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |
| HP-302 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 23 / | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | 2 51 | - |
| HP-303 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 20 / 1 | 2 17,19 | 2 | 12 | | 1/2" | | - 30 | - 2 3R | - |
| HP-304 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 25 A | 2 17,19 | 2 | 12 | · · · | 1/2" | - | - 30 | - 2 3R | - |
| HP-305 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 20 A | 4 24,26 | 2 | 12 | | 1/2" | - | - 30 | - 2 3R | - |
| HP-306 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 20 A | 4 24,26 | 2 | 12 | 2 | 1/2" | - | - 30 | 2 51 | - |
| HP-307 | HEAT PUMP | ROOFTOP | 208/1 | - | - | | 20 A | 4 24,26 | 2 | 12 | 12 | 1/2" | | - 30 | - 2 3R | - |
| HP-308 | | ROOFTOP | 208/1 | - | - | | 20 A | Al 24,26 | 2 | 12 | 12 | 1/2" | - | - 30 | - 2 3R | - |
| HP-309 | | ROOFTOP | 208/1 | - | - | | 20 A | 4 24,26 | 2 | 12 | | I/2" | - | - 30 | | - |
| HP-310 | | ROOFTOP | 208/1 | - | - | | | IM 23,25 | 2 | 12 | | I/2" | - | - 30 | | - |
| | HEAT PUMP | ROOFTOP | 208/1 | - | - | 4 | 25 A2
25 A2 | | | | | /2"
 /2" | - | - 30 | - 2 3R | - I
I I |
| HP-312
HP-313 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | | 2M 19,21 | 2 | | + ,- | | - | - <u>30</u>
- <u>30</u> | | - I
I I |
| HP-313
HP-314 | HEAT PUMP
HEAT PUMP | ROOFTOP | 208/1 | - | - | | 25 A | 2 17,19 | 2 | | | /2"
 /2" | - | | | - |
| | | ROOFTOP | 208/1 | - | - | 14 | | 2 17,19 | 2 | 12 | | 1/2" | - | - 30 | - 2 3R | - |
| HP-315 | HEAT PUMP | ROOFTOP | 208/1 | - | - | 14 | 25 A | 2 17,19 | 2 | 12 | 10 | 1/2" | - | - 30 | - 2 3R | - |

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Α. REFER TO MOTOR NAMEPLATES FOR SPECIFIC MOTOR INFORMATION. В. С. ADJUST CONDUCTOR SIZES FOR AMBIENT TEMPERATURES ABOVE 30 DEGREES C. ADJUST CONDUIT SIZES PER NEC.

| 6 | 1 | 5 | 1 | 4 | 1 | 3 | 1 | 2 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

LISTED CONDUCTOR AND CONDUIT SIZES ARE BASED ON COPPER WIRE WITH THWN/THHN INSULATION AT 30 DEGREE C MAXIMUM AMBIENT TEMPERATURE USING 75 DEGREE INSULATION AMPACITY RATINGS.

LIGHTING CONTROLS SCHEDULE

| | | | | | | | | ULTRA | TIME DELAY |
|------|--------------|----------|--------------------------------|----------|--------|---------|-----|-------|------------|
| MARK | MANUFACTURER | MODEL | DEVICE | MOUNTING | RELAYS | DIMMING | PIR | SONIC | SETTINGS |
| RCI | WATTSTOPPER | LMRC-101 | ROOM CONTROLLER | PLENUM | | - | - | - | - |
| RC2 | WATTSTOPPER | LMRC-102 | ROOM CONTROLLER | PLENUM | 2 | - | - | - | - |
| RC3 | WATTSTOPPER | LMRC-103 | ROOM CONTROLLER | PLENUM | 3 | - | - | _ | - |
| 02 | WATTSTOPPER | LMDC-100 | OCCUPANCY SENSOR | CEILING | - | - | YES | YES | - |
| W2 | WATTSTOPPER | LMSW-102 | PERSONAL CONTROL - 2 BUTTON | WALL | - | - | - | - | - |
| WЗ | WATTSTOPPER | LMSW-103 | PERSONAL CONTROL - 3 BUTTON | WALL | - | - | - | - | - |
| MO | WATTSTOPPER | LMPW-100 | PERSONAL CONTROL - OCC. SENSOR | WALL | - | - | YES | - | 15 MINUTES |
| | | | | | | | | | |
| NOTE | Si | | | | | | | | |

I. ARCHITECT SHALL SELECT COLOR FROM MANUFACTURER'S COLOR PALATE DURING THE SUBMITTAL PROCESS.

CONTROL NOTES:

AUTO ON (OCCUPANCY MODE): LOAD TURNS ON AND OFF AUTOMATICALLY BASED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LOAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT DETECTION, IT THEN REVERTS TO AUTO ON MODE.

- 2. MANUAL ON (VACANCY MODE): OCCUPANT MUST MANUALLY PRESS ON/OFF BUTTON TO ENERGIZE THE LOAD. LOAD REMAINS ENERGIZED UNTIL NO MOTION IS DETECTED
- FOR THE SELECTED TIME DELAY. 3. 30 SECOND RE-TRIGGER DELAY - IF SENSOR DETECTS MOTION DURING DELAY SENSOR SHALL RE-ENERGIZE LOAD.
- SENSOR SHALL ENERGIZE LOAD UPON DETECTION OF MOTION. LOAD IS DE-ENERGIZED ONCE SPACE IS VACANT AND THE ADJUSTABLE TIME DELAY ELAPSES.
- 5. MANUAL OVERRIDE SWITCH SHALL DE-ENERGIZE LOAD DURING OCCUPANCY FOR THE DURATION OF THE SET TIME DELAY. MANUAL ON SWITCH
- SHALL ENERGIZE LOAD FOR THE DURATION OF OCCUPANCY.
- 6. FOR DUAL SWITCH SENSORS DEFAULT IN AUTO-ON TO 50% OPERATION.

GENERAL NOTES (APPLIES TO ALL ABOVE):

- PROVIDE POWER PACKS FOR ALL LOW VOLTAGE OCCUPANCY SENSORS. A.
- В. PROVIDE POWER PACK TYPE AND QUANTITY RECOMMENED BY MANUFACTURER FOR DEVICES SCHEDULED. PROVIDE ALL REQUIRED WIRING FOR A COMPLETE INSTALLATION. REFERENCE MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED WIRING. С.
- E. DUAL TECHNOLOGY SENSORS OCCUPANCY LOGIC SHALL BE SELECTED FOR DETECTION BY EITHER TECHNOLOGY AND SHOULD ONLY REQUIRE ONE FOR INITIAL
- AND MAINTAINED OCCUPANCY AND RETRIGGER WHEN OPTION IS AVAILABLE.
- F. ALL WALL SWITCHES WITH MORE THAN TWO BUTTONS OR BUTTONS FOR DIMMING SHALL BE ENGRAVED WITH THE SCENE FUNCTION. TEXT SHALL BE SELECTED DURING THE SUBMITTAL PROCESS. G. PROVIDE TWO DIGITAL WIRELESS CONFIGURATION TOOLS, WATTSTOPPER MODEL LMCT-100.

| SSOURI CERTIFI | PORATION |
|--|------------------------------------|
| OF AUTHORITY NO. | CATE |
| Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802 | STARK WILSON DUNCAN ARCHITECTS INC |

SEAL

ENGINEER - CASEY JOHN STEINER MO. LICENSE NO. PE-2009035182



ELECTRICAL SCHEDULES

ISSUE DATE: 02.04.2019

REVISIONS:





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HOSS & BROWN 11205 West 79th Street Lenexa, Kansas 66214 (913) 362-9090 phone mail@h-be.com H&B Project Number: 1820640 Copyright 2019

CONTROL

LOAD VOLTS NOTES NOTES

- 1

1

120/277

120/277

120/277

24VDC

24VDC

24VDC

24VDC

MANUAL AUTO

ON

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RR/CORR

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NO

ON

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-

YES

YES

MAXIMUM

20A

20A

20A

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AMBIENT

LIGHT CONTROL

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