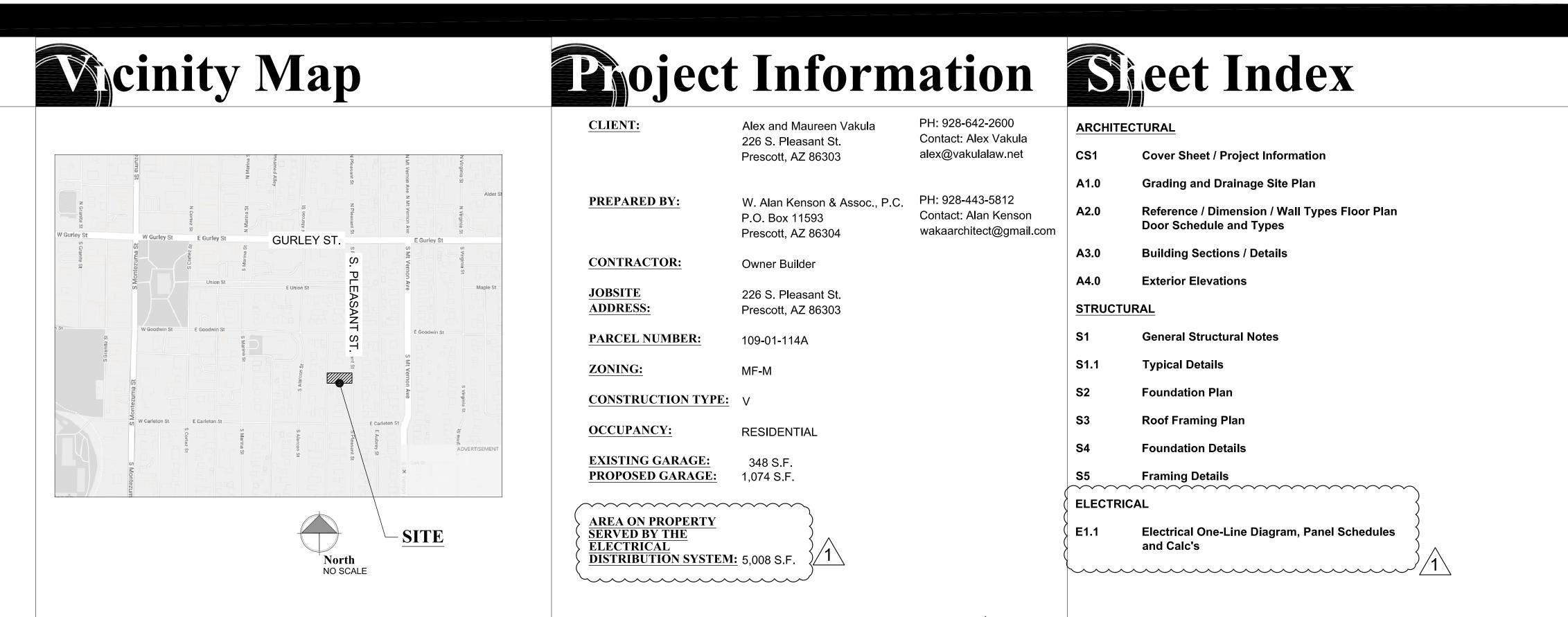
Vakula Garage Addition

PRESCOTT, ARIZONA





Deferred Submittal

FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN GARAGE. REFER TO FIRE SPRINKLER PLANS UNDER SEPARATE COVER.

Project Description

THE VAKULAS INTEND TO BUILD A THREE CAR GARAGE ATTACHED TO THEIR EXISTING GARAGE / STORAGE BUILDING WITH ACCESS FROM THE ALLEY.

Architect:

WALL TYPE DESIGNATOR

W. Alan Kenson & Associates, P.C.

P 928-443-5812 F 928-443-5815

P.O. Box 11593 Prescott, AZ 86304

email: wakaarchitect@gmail.com www.kenson-associates.com

ARCHITECTURE & PLANNING



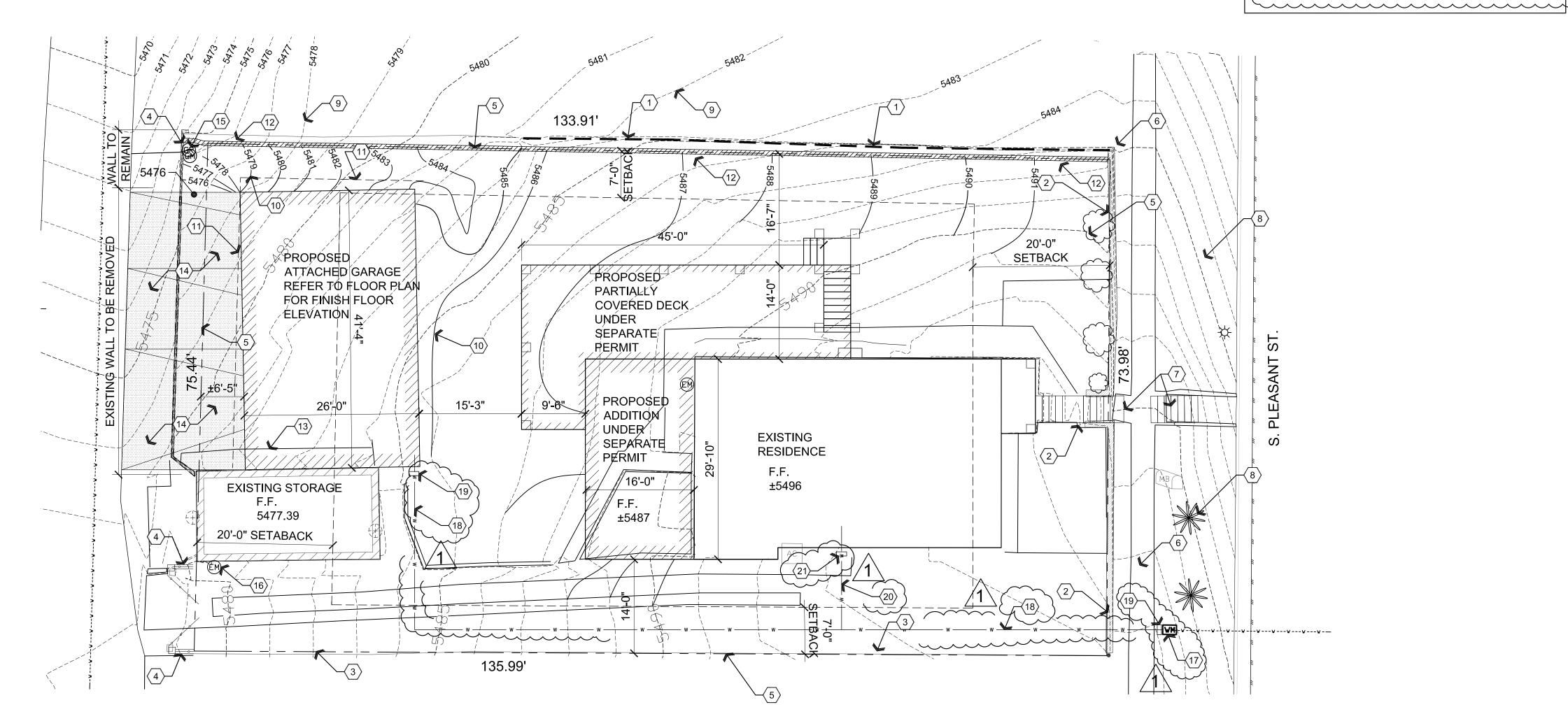
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L.O. CHECKED BY W.A.K. April 5th, 2023

NOTE: EROSION AND SEDIMENT CONTROL MEASURES WILL BE PROVIDED DOWNSTREAM OF ALL CONSTRUCTION AND THE CONSTRUCTION ENTRANCE WILL BE STABILIZED OR A SWEEPING PLAN WILL BE PROVIDED.

Discriptive Keynotes \bigcirc

- 1. EXISTING NORTH CONCRETE WALL TO BE REMOVED.
- 2. EXISTING EAST CONCRETE WALL TO REMAIN. NEW WOOD PICKET FENCE WILL REPLACE EXISTING WIRE FENCE ON TOP OF WALL. FENCE UNDER SEPARATE PERMIT.
- 3. EXISTING SOUTH FENCE TO REMAIN AS IS.
- 4. EXISTING WEST CONCRETE WALL TO REMAIN AS INDICATED. WHERE WALL REMAINS, NEW WOOD PICKET FENCE WILL REPLACE EXISTING WIRE FENCE ON TOP OF WALL. FENCE UNDER
- SEPARATE PERMIT. 5. PROPERTY LINE.
- 6. EXISTING SIDEWALK.
- 7. EXISTING STAIRS.
- 8. EXISTING LANDSCAPING. 9. EXISTING CONTOUR.
- 10. PROPOSED CONTOUR.
- 11. 5' ACCESSORY BUILDING SETBACK.
- 12. NEW RETAINING WALL UNDER SEPARATE PERMIT
- 13. REMOVE EXISTING CONCRETE. 14. PROVIDE 4" CONCRETE SLAB WITH #3 @ 2'-0" O.Q. EACH WAY, OVER 4" A.B.C. FROM GARAGE TO PAVED ALLEY, APPROXIMATELY 17'-0"x42'-0".
- 15 EXISTING NATURAL GAS METER. 16. EXISTING ELECTRICAL SERVICE ENTRANCE SECTION. EXISTING ELECTRICAL SERVICE TO BE REPLACED WITH NEW, REFER TO ELECTRICAL
- 17. EXISTING 3/4" WATER METER TO BE REPLACED
- WITH 1" WATER METER. 18. 2" PEX WATER LINE BELOW GRADE TO PROPOSED
- GARAGE. 19. PROVIDE 2" WATER SHUT OFF VALVE IN BELOW GRADE YARD BOX.
- 20. 1" PEX WATER LINE BELOW GRADE TO EXISTING HOUSE.
- 21. PROVIDE 1" WATER SHUT OFF VALVE IN BELOW GRADE YARD BOX.







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REVISIONS

6/5/2023

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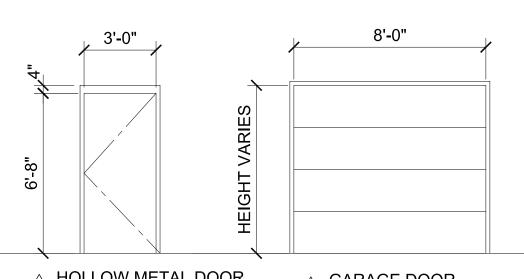
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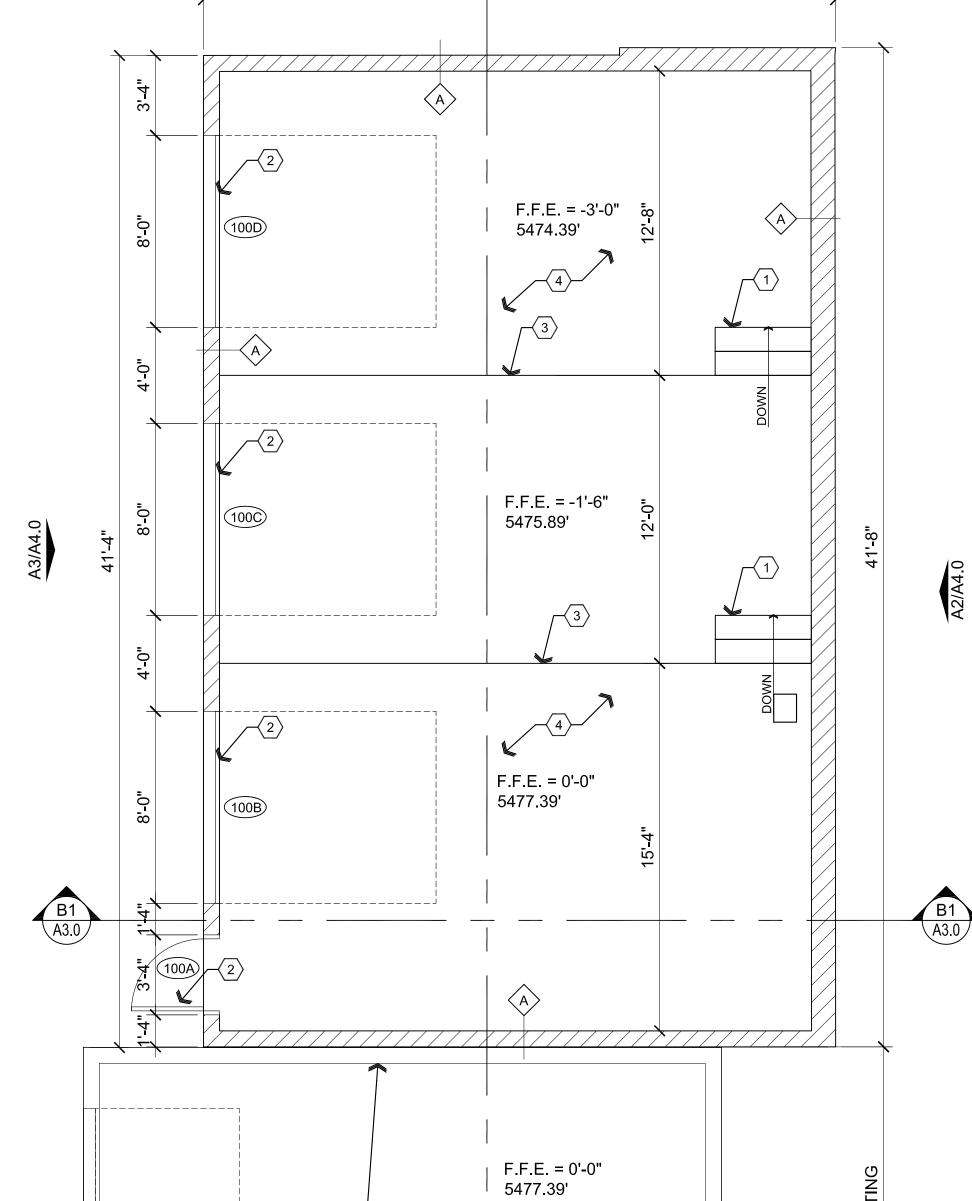
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Dior Schedule DOOR MATERIAL FRAME HARDWARE DOOR FRAME RM. NAME SIZE NO. FINISH FINISH MATERIAL TYPE 100A 3'-0"x6'-8" HM PAINT PAINT GARAGE 100B 8'-0"x7'-0" GARAGE 100C 8'-0"x8'-6" GARAGE 100D GARAGE 8'-0"x10'-0" B -



Dior Hardware Schedule

HARDWARE SET A: LEVER ENTRY LOCK, WEATHER STRIP, THRESHOLD, DEADBOLT. HOLLOW METAL DOOR GARAGE DOOR B1/A4.0 26'-4"



Reference / Dimension / Wall Types Floor Plan

A1/A4.0

Wall Types Legend EXTERIOR CMU WALL / RETAINING WALL REFER TO STRUCTURAL PLANS

Discriptive Keynotes \bigcirc

2. DOOR, REFER TO DOOR SCHEDULE.

AND STRUCTURAL PLANS.

1. CONCRETE STAIRS, REFER TO STRUCTURAL

3. STEP IN FLOOR, REFER TO BUILDING SECTIONS

4. CONCRETE FLOOR, REFER TO STRUCTURAL

5. EXISTING GARAGE / STORAGE BUILDING.

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Electrical / Reflected Ceiling Plan
Scale: 1/4"=1'-0"

GFCI +48

GFCI 🖰

- CHARGING OUTLET

GFCI +48

GFCI +48 ⊖

GFCI ABOVE GRADE

ELECTRIC UNIT HEATER

FIXTURE, TYPICAL

ELECTRICAL SUB-PANEL -

DUPLEX ELECTRICAL

OUTLET, TYPICAL

DOOR OPENER, TYPICAL

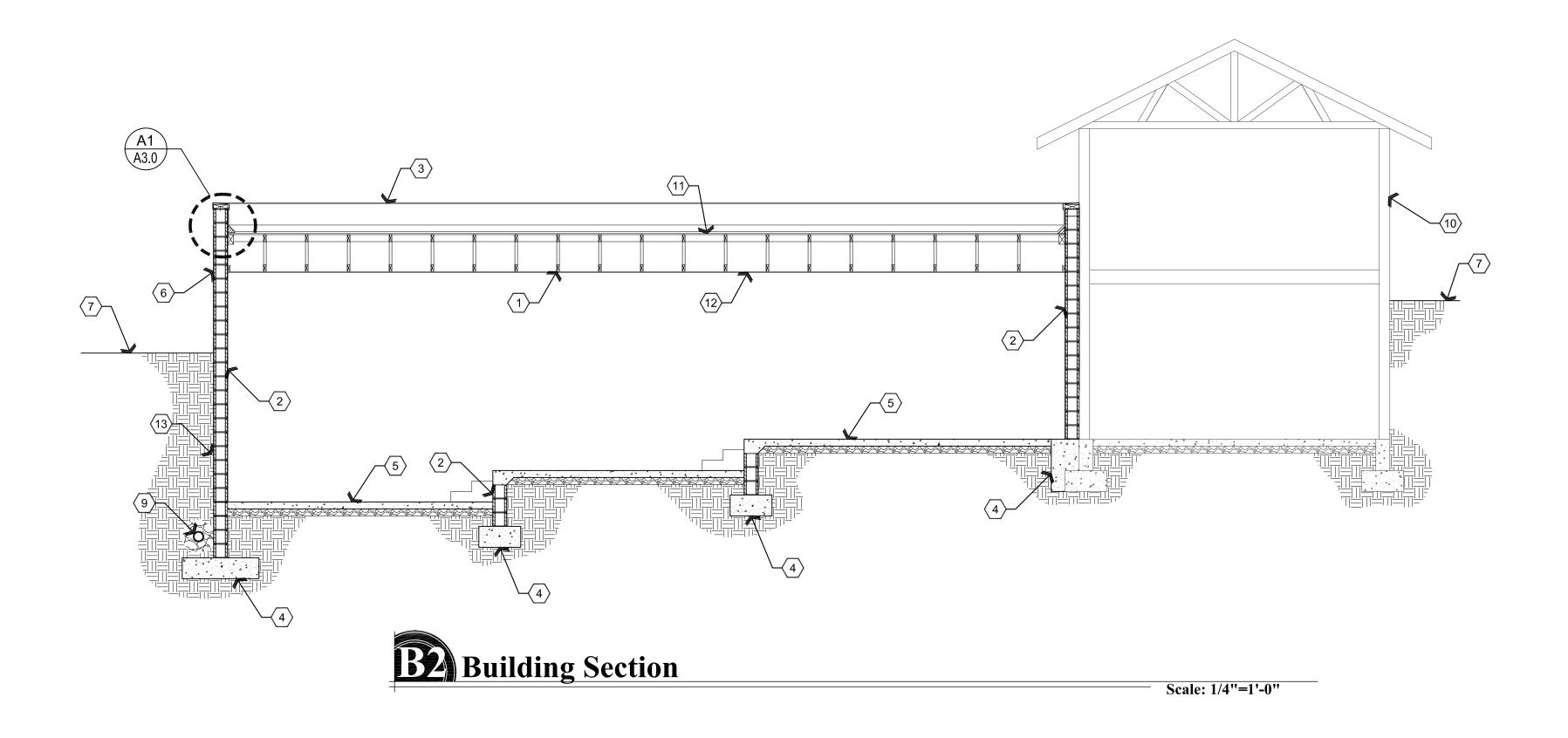
GFCI ABOVE GRADE

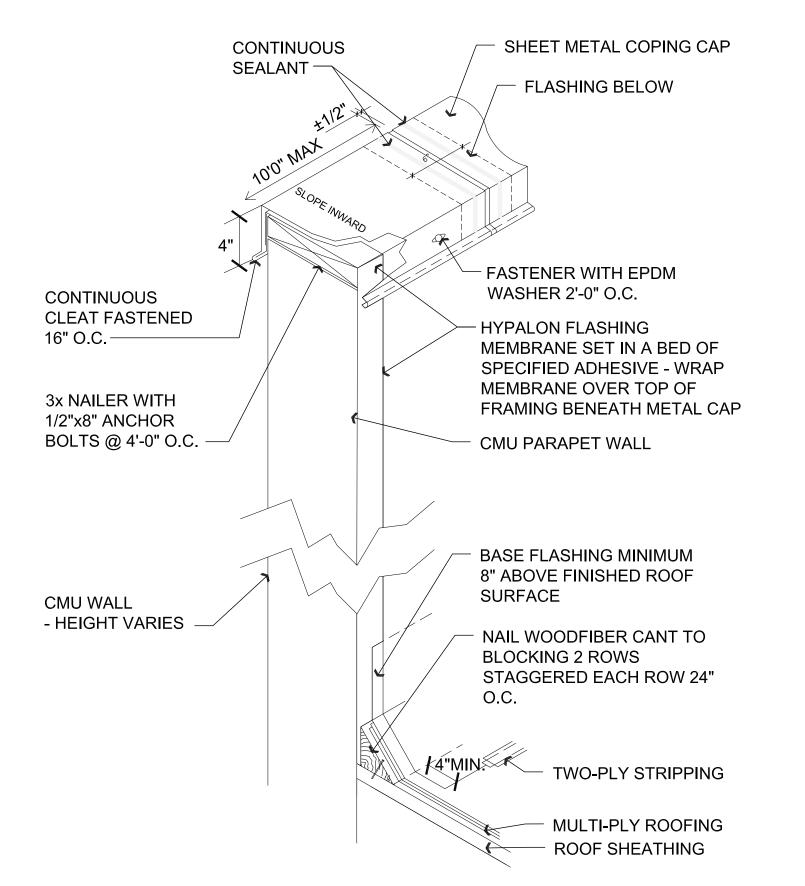
LIGHT FIXTURE BY OWNER TO BE BRIGHT SKY

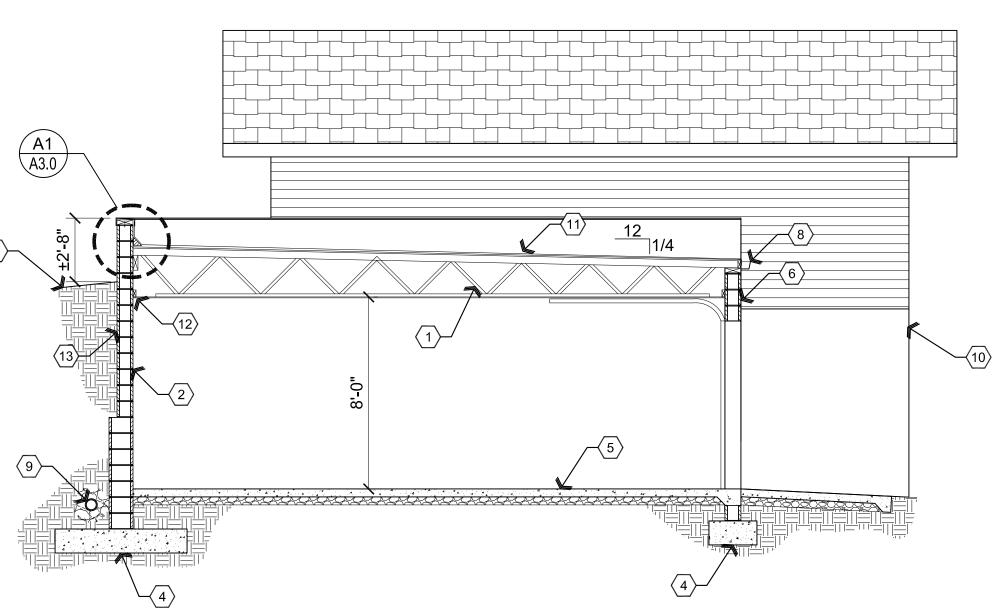
ORDINANCE COMPLIANT











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





Discriptive Keynotes  $\bigcirc$ 

1. PROVIDE PRE-MANUFACTURED WOOD TRUSS, REFER TO STRUCTURAL PLANS.

2. PROVIDE CMU WALL, REFER TO STRUCTURAL PLANS AND REFERENCE FLOOR PLAN.

3. PROVIDE SHEET METAL PARAPET CAP. 4. CONCRETE FOOTING, REFER TO STRUCTURAL

5. PROVIDE CONCRETE SLAB, REFER TO STRUCTURAL PLANS.

6. PROVIDE WESTERN ONE COAT STUCCO SYSTEM - UES# 382, WITH SYNTHETIC INTEGRAL COLOR SMOOTH FINISH OVER BROWN COAT.

7. APPROXIMATE FINISH GRADE.

8. PROVIDE SHEET METAL RAIN GUTTER. 9. PROVIDE FRENCH DRAIN, REFER TO STRUCTURAL PLANS.

10. EXISTING GARAGE / STORAGE BUILDING.

11. MULTI-PLY BUILT UP ROOFING. 12. 1/2" GYPSUM DRYWALL CEILING.

13. PROVIDE WATER PROOFING WITH

PROTECTION BOARD.

REVISIONS

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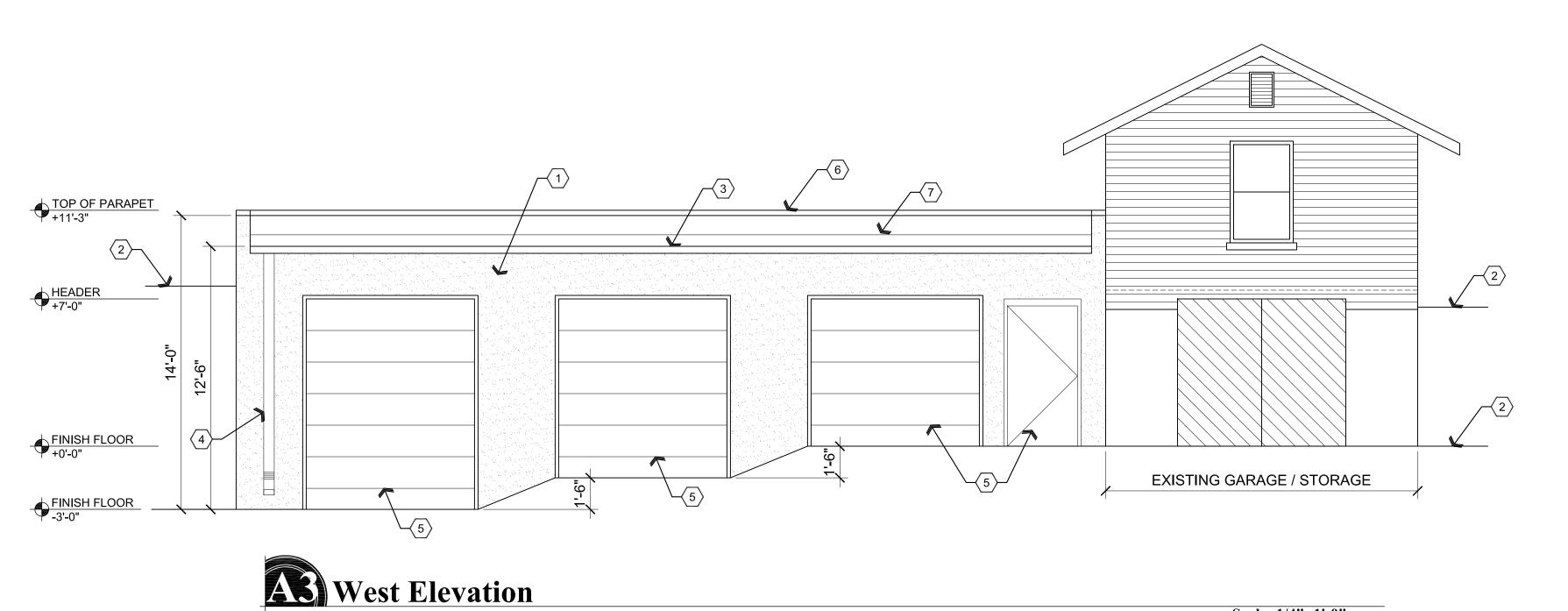
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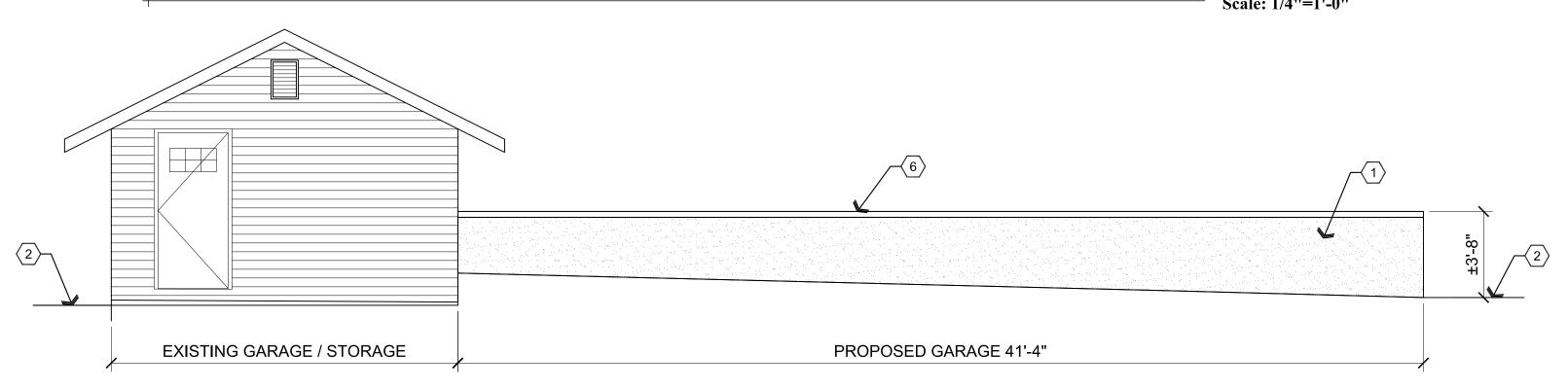
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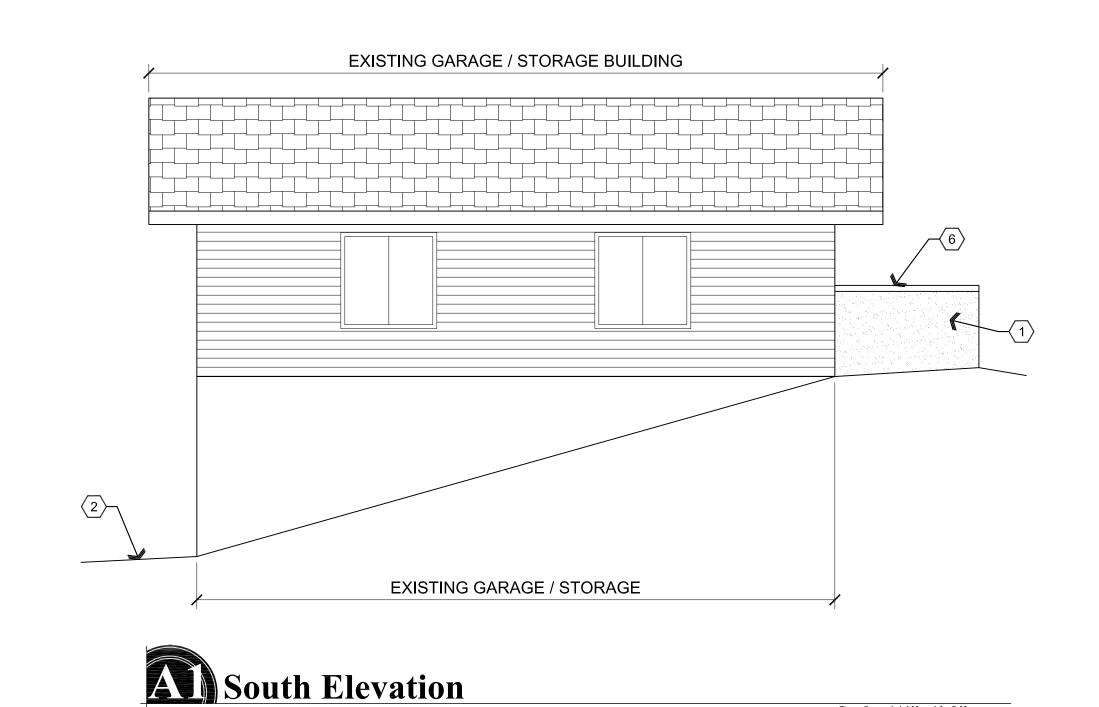
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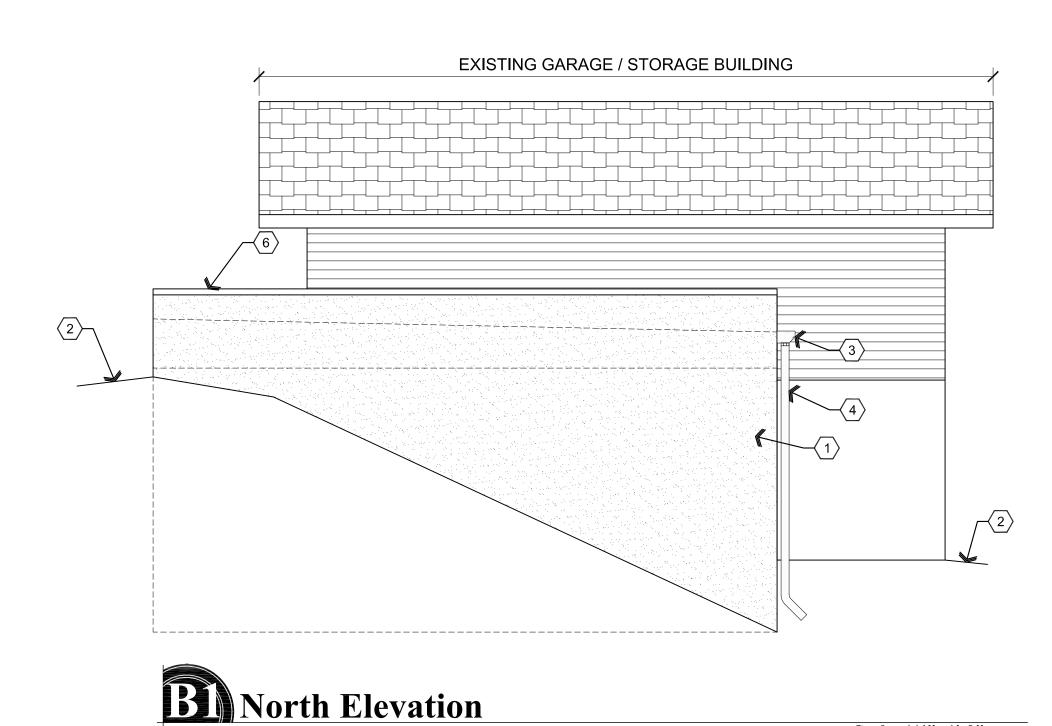
JOB NO. **790** 











1. PROVIDE WESTERN ONE COAT STUCCO SYSTEM
- UES# 382, WITH SYNTHETIC INTEGRAL COLOR
SMOOTH FINISH OVER BROWN COAT.
2. APPROXIMATE FINISH GRADE.
3. PROVIDE SHEET METAL RAIN GUTTER.
4. PROVIDE SHEET METAL DOWNSPOUT.
5. PROVIDE DOOR, REFER TO REFERENCE FLOOR
PLAN AND DOOR SCHEDULE.

PROVIDE SHEET METAL PARAPET CAP.

MULTI-PLY BUILT UP ROOFING.

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25646
W. ALAN ENSON

EXPIRES: 6/30/24

REVISIONS

W. Alan Kenson & Associates,

P. 928-443-5812 P.O. Box 11593

Vakula Garage 226 S. Pleasant St. Prescott, AZ 86303

PROJECT

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
April 5th, 2023

JOB NO.
790

**A4.0** 

#### GENERAL REQUIREMENTS:

- 1. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- 2. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS, AT NO ADDITIONAL COST TO OWNER.
- 3. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- 4. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL
- 5. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

#### BASIS FOR DESIGN:

1. BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

RISK CATEGORY = II

2. VERTICAL LOADS:

| LOCATION | LIVE / SNOW<br>LOAD | DEAD LOAD |
|----------|---------------------|-----------|
| ROOF     | 30 PSF              | 15 PSF    |

|    | 05.01.10 | 5 = 6, 6, . |             |
|----|----------|-------------|-------------|
| 3. | SEISMIC  | DESIGN      | PARAMETERS: |

| ANALYSIS PROCEDURE                   | EQUIVALENT LATERAL FORCE<br>PROCEDURE |
|--------------------------------------|---------------------------------------|
| IMPORTANCE FACTOR                    | le = 1.00                             |
| SITE CLASS                           | D                                     |
| SEISMIC DESIGN CATEGORY              | С                                     |
| SPECTRAL RESPONSE<br>ACCELERATIONS   | Sms = 0.516, Sm1 = 0.244              |
| SPECTRAL RESPONSE<br>COEFFICIENTS    | Sds = 0.344, Sd1 = 0.163              |
| HORIZONTAL SHEAR TRANSFER ELEMENT    | S:                                    |
| PLYWOOD — FLEXIBLE<br>DIAPHRAM(S)    | R = 6.5                               |
| VERTICAL SHEAR TRANSFER ELEMENTS:    |                                       |
| INTERMEDIATE MASONRY<br>SHEARWALL(S) | R = 3.5                               |

#### 4. WIND DESIGN PARAMETERS (STRENGTH):

| ULTIMATE WIND SPEED             | 115 MPH (3 SECOND GUST) |
|---------------------------------|-------------------------|
| WIND EXPOSURE                   | С                       |
| INTERNAL PRESSURE COEFFICIENT   | +/-0.18                 |
| COMPONENT AND CLADDING PRESSURE | 29.6 PSF                |
| NET UPLIFT ON ROOF              | 28.7 PSF                |

#### FOUNDATION NOTES:

1. THE SOIL DESIGN PARAMETERS LISTED BELOW HAVE BEEN APPROVED BY THE CITY/COUNTY DEVELOPMENT SERVICES DEPARTMENT, CONTINGENT THAT THE SOIL ON THE SITE PREDOMINATELY CONSISTS OF THE FOLLOWING PROPERTIES:

> PLASTICITY INDEX (PI) = 15 OR LESS EXPANSION INDEX (EI) = 20 OR LESS

2 THESE PLASTICITY/EXPANSION INDICES MUST BE DETERMINED IN A RECOGNIZED SOIL ANALYSIS LABORATORY. THEIR RESULTS SHOULD BE PROVIDED IN A GRADATION REPORT AT TIME OF PERMIT APPLICATION ALONG WITH THESE CALCULATIONS.

VERIFICATION OF SOIL CLASSIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR.

#### THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

| ALLOWABLE BEARING PRESSURE               | 1500 PSF   |
|------------------------------------------|------------|
| ALLOWABLE LATERAL BEARING PRESSURE       | 150 PSF/FT |
| ALLOWABLE LATERAL SLIDING COEFFICIENT    | 0.25       |
| LATERAL BACKFILL PRESSURE (UNRESTRAINED) | 30 PSF/FT  |
| LATERAL BACKFILL PRESSURE (RESTRAINED)   | 50 PSF/FT  |
| SITE CLASS                               | D          |

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

#### FOUNDATION NOTES (CONT):

#### FOUNDATION BEARING DEPTH 18" BELOW FINISHED GRADE

- 4. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED ENGINEERED FILL 18 INCHES MINIMUM BELOW FINISH GRADE. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT
- 5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE.
- 6. BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL EITHER THE WALLS ARE BRACED OR AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

#### **CONCRETE:**

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

| USE:                       | SE: CONCRETE STRENGTH: |                          |
|----------------------------|------------------------|--------------------------|
| FOUNDATIONS                | 3000 PSI               | DESIGNED FOR 2500<br>PSI |
| CONCRETE SLABS ON<br>GRADE | 3000 PSI               | W/O INSPECTION           |

- 2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C67 FOR ¾", ASTM C57 FOR 1" AND ASTM C467 FOR 11/2" AGGREGATE.
- 3. TENSION LAP SPLICES OF REINFORCING STEEL IN CONCRETE SHALL BE AS FOLLOW:

| REBAR SIZE | STANDARD LAP |
|------------|--------------|
| #3         | 20"          |
| #4         | 32"          |
| #5         | 39"          |

LAP SPLICES FOR BEAMS AND FLOOR SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER, LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

| LOCATION:                                    | MINIMUM<br>COVER | TOLERANCE |
|----------------------------------------------|------------------|-----------|
| CAST AGAINST EARTH (FOOTINGS)                | 3"               | ± 3/8"    |
| SLABS ON GRADE                               | 1½"              | ± 1/4"    |
| EXPOSED TO EARTH OR WEATHER — #5 AND SMALLER | 1½"              | ± 3/8"    |
| EXPOSED TO EARTH OR WEATHER - #6 AND LARGER  | 2"               | ± 3/8"    |

5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4". SLUMP FOR EXTERIOR SLABS SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.

- 6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
- 7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED 250 SQUARE FEET, OR BE MORE THAN TWO TIMES LONGER THAN THE SLAB AREA WIDTH. THE FOUNDATION PLAN SHOWS A SUGGESTED METHOD OF CONTROL JOINT LAYOUT. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

- 9. HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.
- 10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
- 11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

#### MASONRY (CONCRETE BLOCK):

MINIMUM 28 DAY MASONRY STRENGTH SHALL BE 1500 PSI.

1. VERTICAL REINFORCING: #5 AT 8 INCHES ON CENTER FULL HEIGHT OF WALL, CENTERED IN GROUTED CELL AND AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS, OVER LINTELS, AND EACH SIDE OF CONTROL JOINTS (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS). TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL WALL OR COLUMN REINFORCING.

- 2. CONTROL JOINTS: UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- 3. HORIZONTAL REINFORCING: (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) (2) #4 BARS IN CENTER OF 16 INCH DEEP MINIMUM CONTINUOUS GROUTED BOND BEAM AT "ELEVATED FLOOR AND ROOF LINES. FOR 8 INCH THICK WALLS, ONE #4 BAR IN CENTER OF 8 INCH DEEP CONTINUOUS GROUTED BOND BEAM AT INTERVALS NOT TO EXCEED 48 INCHES ON CENTER AND AT TOP OF PARAPET OR FREE STANDING WALLS.

HORIZONTAL BARS AT TOP OF PARAPET OR FREE STANDING WALLS SHALL BE PLACED 8 INCHES DOWN FROM THE TOP IN AN UPSIDE DOWN BOND BEAM BLOCK.

PLACE HORIZONTAL BARS CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE BENT BARS PER TYPICAL DETAILS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.

| 4. | TENSION LAP | SPLICES ( | OF | REINFORCING | STEEL | IN | MASONRY | SHALL | BE | AS FOLLOWS: |  |
|----|-------------|-----------|----|-------------|-------|----|---------|-------|----|-------------|--|
|    |             |           |    |             |       |    |         |       |    |             |  |

| REBAR SIZE | STANDARD LAP | RETAINING WALLS<br>(AT FACE OF WALL) |
|------------|--------------|--------------------------------------|
| #4         | 24"          | 30"                                  |
| #5         | 30"          | 46"                                  |
| #6         | 43"          | 55"                                  |

- 5. REINFORCING PLACEMENT TOLERANCES: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. TOLERANCES FOR PLACEMENT OF VERTICAL REINFORCING SHALL BE (±) 1/2" PERPENDICULAR TO WALL AND  $(\pm)$  2" ALONG THE LENGTH OF THE WALL. PROVIDE  $\frac{1}{2}$ " CLEARANCE BETWEEN MASONRY UNITS AND REINFORCING, AND REINFORCING RUNNING IN THE SAME DIRECTION. LAPS MAY BE BESIDE OR OVER THE REINFORCING BEING SPLICED.
- 6. BLOCK QUALITY: CONCRETE BLOCK SHALL BE HOLLOW LIGHTWEIGHT LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM 90-75 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.
- 7. MORTAR: MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF THE IBC STANDARDS, TYPE M OR S. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI
- 8. GROUT: GROUT SHALL CONFORM TO REQUIREMENTS OF CHAPTER 21 OF THE IBC FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. ALL GROUT SHALL BE MECHANICALLY VIBRATED.
- GROUT LIFTS OF 5 FEET OR LESS IS RECOMMENDED. FOR HIGHER GROUT LIFTS, CLEANOUTS (3"X3") AT THE BOTTOM OF ALL VERTICALLY REINFORCED CELLS SHALL BE PROVIDED. IN ADDITION, MECHANICAL DEVICES SHALL BE USED TO POSITION AND SECURE REINFORCING WHEN GROUT LIFTS EXCEED 5 FEET IN HEIGHT. IN SOLID GROUTED MASONRY, CLEANOUTS SHALL NOT BE SPACED MORE THAN 32" O.C.
- 9. BLOCK CONSTRUCTION: ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
- 10. MISCELLANEOUS LINTELS: FOR MISCELLANEOUS OPENINGS (4'-8" OR LESS) NOT SHOWN ON PLANS OR IN A SCHEDULE, BUT REQUIRED BY OTHER DISCIPLINES (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) THE FOLLOWING OPTIONS MAY BE USED IN 8" MASONRY WALLS:

OPTION #1: GROUTED REINFORCED MASONRY LINTEL: REINFORCE WITH (2) #4 HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MINIMUM DEPTH OF 12 INCHES. ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 24" PAST JAMBS.

OPTION #2: DOUBLE ANGLE LINTELS: USE (2) L31/2x31/2x1/4 BACK-TO-BACK. PROVIDE 12" MINIMUM OF GROUT OVER LINTELS. BEARING FOR STEEL ANGLE LINTELS SHALL BE  $4"(\pm)$  1" AT EACH JAMB.

OPTION #3: POWERS STEEL LINTEL: PS8-8. GROUT LINTEL 8" DEEP. BEARING FOR POWERS STEEL LINTELS SHALL BE 4"  $(\pm)$  1" AT EACH JAMB.

THESE LINTELS, OR THE OPENING THEY SPAN, SHALL NOT BE PLACED SO AS TO INTERFERE WITH THE REQUIREMENTS OF OTHER STRUCTURAL ELEMENTS (I.E. BOND BEAMS, LINTELS, CONTROL JOINTS, CONCENTRATED POINTS OF BEARING, ETC.) WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

SOLID GROUT SHALL BE PROVIDED BETWEEN WEBS AND MASONRY FACE SHELLS FOR FULL LENGTH OF ALL STEEL LINTELS. MORTAR MAY BE USED FOR GROUT FOR THIS PURPOSE ONLY. FACE UNITS, SOAPS, ROMANS, ETC., SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

FOR ADDITIONAL INFORMATION AT OPENINGS IN MASONRY WALLS, SEE TYPICAL

#### REINFORCING STEEL:

- 1. ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
- 2. WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
- 3. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

#### **WOOD:**

1. SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE IN SCHEDULES:

| USE:                                         | MATERIAL:                   |
|----------------------------------------------|-----------------------------|
| 2X STUDS                                     | HEM-FIR NO. 2               |
| JOISTS, TOP PLATES AND ALL OTHER SAWN LUMBER | DOUGLAS-FIR NO. 2 OR BETTER |
| BEAMS AND POSTS                              | DOUGLAS-FIR NO. 2 OR BETTER |
|                                              |                             |

2. PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-09. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

| LOCATION:                                                                                                                  | NOMINAL<br>THICKNESS: | SPAN INDEX<br>RATING:         | EDGE ATTACHMENT: | FIELD ATTACHMENT: |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|------------------|-------------------|--|--|--|
| ROOF                                                                                                                       | 1/2"                  | <sup>32</sup> / <sub>16</sub> | 10d AT 6" O.C.   | 10d AT 12" O.C.   |  |  |  |
| PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE<br>RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH |                       |                               |                  |                   |  |  |  |

- PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BE USED ON ROOFS WHERE BUILT-UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH DOC PS 2-10 EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN  $\frac{1}{32}$ ") Shall be the same as the plywood it replaces. Install per MANUFACTURER'S RECOMMENDATIONS.
- 3. BOLTING: ALL BOLTS IN WOOD CONNECTIONS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/6" LARGER THAN THE Ø (DIAMETER) OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NICK THREADS TO PREVENT LOOSENING.
- 4. PREFABRICATED WOOD TRUSSES: PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS. WHERE ATTIC SPACE CAN BE USED FOR STORAGE, A 40 PSF LIVE LOAD ON THE BOTTOM CHORD SHALL BE INCLUDED IN THE ANALYSIS. BRIDGING SIZE AND SPACING BY TRUSS MANUFACTURER UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE.

PREFABRICATED WOOD TRUSSES SHALL BE HANDLED, STORED, ERECTED, AND BRACED DURING ERECTION IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TPI) AND WOOD TRUSS COUNCIL OF AMERICA (WTCA) BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, 2013 EDITION. PERMANENT BRACING, IF REQUIRED, TO BE IN ACCORDANCE WITH TRUSS MANUFACTURER DRAWINGS/CALCULATIONS.

SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT ICBO APPROVAL. ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. PER IBC SECTION 2303.4 AND TPI-1: EACH TRUSS SHALL BE LEGIBLY BRANDED, MARKED OR OTHERWISE HAVE PERMANENTLY AFFIXED THERETO THE IDENTITY OF THE COMPANY MANUFACTURING THE TRUSS, THE DESIGN LOADS, AND THE TRUSS SPACING - WITHIN TWO FEET OF THE CENTER OF THE SPAN ON THE FACE OF THE BOTTOM CHORD. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/240. FLOOR LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO

#### SPECIAL INSPECTION ITEMS:

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION OF CERTAIN TYPES OF WORK, PER IBC SECTION 1704 AND THE STRUCTURAL ENGINEER OF RECORD, SPECIAL INSPECTION IS (IS NOT) REQUIRED AS FOLLOWS:

| TYPE OF WORK:                                                                 | REQUIRED: | REMARKS:                                   |
|-------------------------------------------------------------------------------|-----------|--------------------------------------------|
| CONCRETE SLAB ON<br>GRADE                                                     | NO        | DESIGN BASED ON f'c=2500 PSI               |
| CONCRETE FOUNDATIONS                                                          | NO        | DESIGN BASED ON f'c=2500 PSI               |
| REINFORCING STEEL FOR<br>ALL CONCRETE/<br>MASONRY THAT REQUIRES<br>INSPECTION | YES       | PRIOR TO PLACEMENT OF CONCRETE<br>OR GROUT |
| EPOXY ANCHORS                                                                 | YES       | DURING INSTALLATION OF ANCHORS             |
| MASONRY (CMU)                                                                 | YES       | DURING PLACEMENT OF GROUT                  |

SPECIAL INSPECTIONS NOT LISTED ABOVE ARE NOT REQUIRED BY FSE HOWEVER, ADDITIONAL SPECIAL INSPECTIONS MAY BE REQUIRED BY THE BUILDING OFFICIAL.

- 2. DESIGNATION OF SPECIAL INSPECTOR: A SPECIAL INSPECTION CERTIFICATE - CORRESPONDING TO THE REQUIREMENTS IN THE TABLE ABOVE HAS BEEN PROVIDED WITH THESE DRAWINGS BY FSE FOR PERMITTING PURPOSES.
- A. ACCORDING TO THE SI CERTIFICATE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE STRUCTURAL ENGINEER OF RECORD -FROST STRUCTURAL ENGINEERING(FSE) (928)776-4757. FSE IS NOT RESPONSIBLE FOR SPECIAL INSPECTIONS IF WE ARE NOT CONTACTED OR CONTRACTED TO DO
- B. TO SCHEDULE ANY SPECIAL INSPECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SPECIAL INSPECTOR AT LEAST
- C. AN ALTERNATE SPECIAL INSPECTOR MAY BE USED BY OBTAINING A NEW SI CERTIFICATE, AND MAKE THE NECESSARY NOTIFICATIONS TO ALL PARTIES INVOLVED. THE ALTERNATE SPECIAL INSPECTOR SHALL BE AN ARIZONA LICENSED CIVIL OR STRUCTURAL ENGINEER OR AN ICC CERTIFIED SPECIAL INSPECTOR.
- D. FOR GEOTECHNICAL ITEMS LISTED ABOVE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER OR THE BUILDING OFFICIAL.
- 3. QUALITY ASSURANCE PROGRAM:
- A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING
- C. UPON COMPLETION OF THE ASSIGNED WORK THE STRUCTURAL ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

|                                               | ABBREVIATIONS                                                                                                                                                                                                                                                                               |                                                                                                                                                                           |                                                                                                                                                                                                                                                |  |  |  |  |  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| A/C                                           | - AGGREGATE BASE COURSE - AIR CONDITIONER - ABOVE FINISHED FLOOR - ALTERNATE - ANCHOR BOLT - AT (MEASUREMENT) - BEAM - BELOW FINISHED FLOOR - BOTTOM OF BEAM - BOTTOM OF FOOTING - BEARING - CAST IN PLACE - CENTERLINE - CENTERLINE OF BEAM - CENTERLINE OF COLUMN - CENTERLINE OF FOOTING | GLB (GLULAM) — - I.F.W. — — — HORIZ — — — K(KIP) — — — LLL. — — — — HORIZ — — — LLY — — — — MFR('S) — — — MECH'L — — — — N.T.S. — — — O.C. — — — — O.F.W. — — — PLF — — — | 1000 POUNDS LIVE LOAD POUNDS LONG LEG HORIZONTAL LONG LEG VERTICAL MANUFACTURER('S) MASONRY CONTROL JOINT MECHANICAL - NOT APPLICABLE - NOT TO SCALE - ON CENTER - OUTSIDE FACE OF WALL - OPPOSITE - PRECAST CONCRETE - POUNDS PER LINEAR FOOT |  |  |  |  |  |
| CONC S.J. — — — — — — — — — — — — — — — — — — | - CONCRETE - CONCRETE CONTROL JOINT - CONCRETE SAWCUT JOINT - CONCRETE MASONRY UNIT - CONNECTION - CONTINUOUS - DEAD LOAD - DIAMETER - DOWN - DRAWING(S)                                                                                                                                    | PSF                                                                                                                                                                       | — — SQUARE  — — STANDARD  — — TOTAL LOAD  — — TOP OF BEAM                                                                                                                                                                                      |  |  |  |  |  |
| EQ — — — — — — — — — — — — — — — — — — —      |                                                                                                                                                                                                                                                                                             | T.O.F. — — — — — — — — — — — — — — — — — —                                                                                                                                | — UNLESS NOTED OTHERWISE     — VERTICAL     — WELDED WIRE FABRIC                                                                                                                                                                               |  |  |  |  |  |

GSN - - - - GENERAL STRUCTURAL NOTES | W/O - - - - - WITHOUT

| SHEET      | DESCRIPTION              | DETAIL  |
|------------|--------------------------|---------|
| S1         | GENERAL STRUCTURAL NOTES |         |
| S1.1       | TYPICAL DETAILS          | T-SERIE |
| <b>S2</b>  | FOUNDATION PLAN          |         |
| <b>S</b> 3 | ROOF FRAMING PLAN        |         |
| S4         | FOUNDATION DETAILS       | 100-SER |
| S5         | FRAMING DETAILS          | 200-SER |

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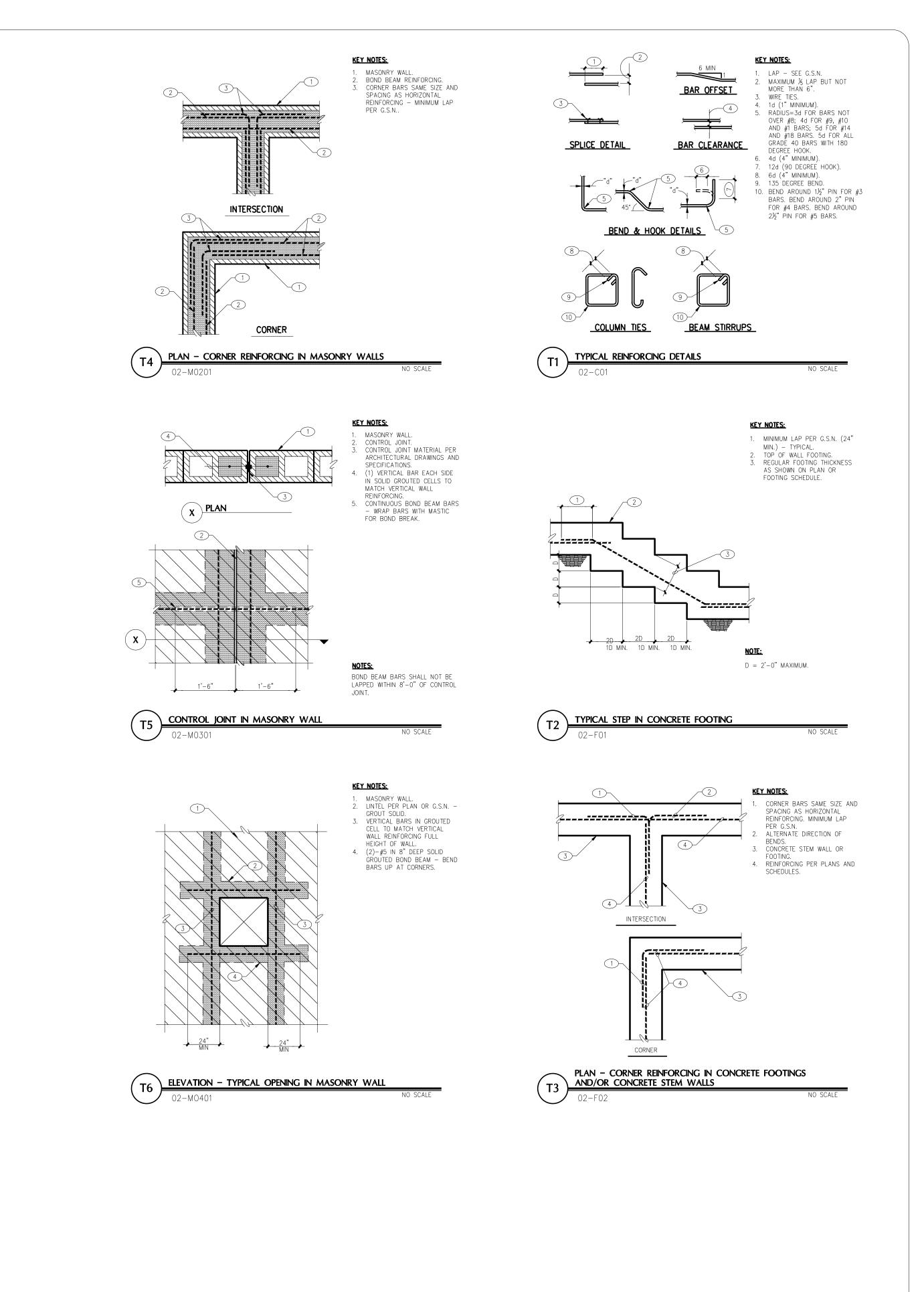
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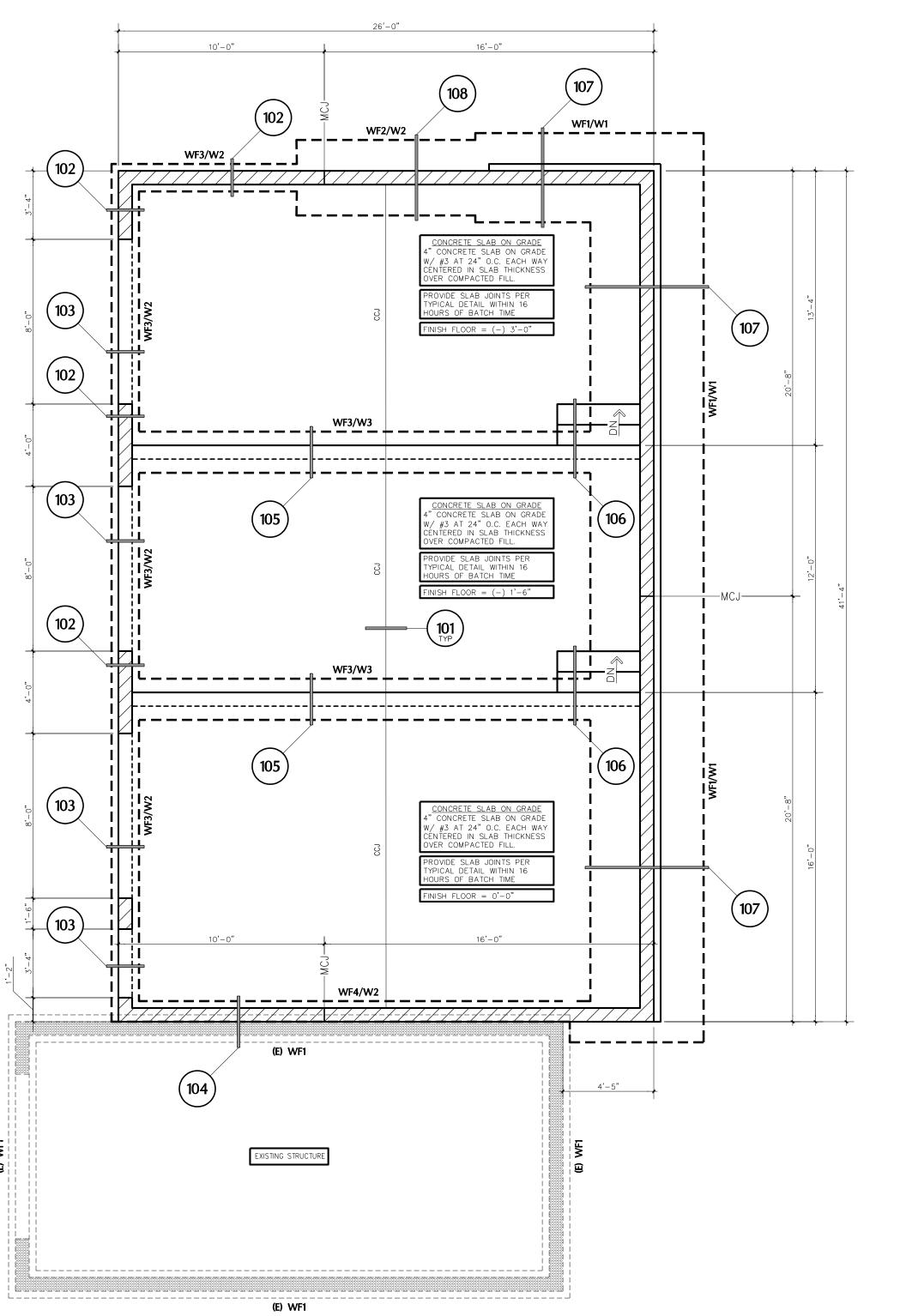
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1/4" = 1'-0"

FOUNDATION PLAN



-HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
—SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

8" MASONRY (CMU) WALL. MINIMUM REINFORCING UNLESS

AS SEEN ON PLANS INDICATES-

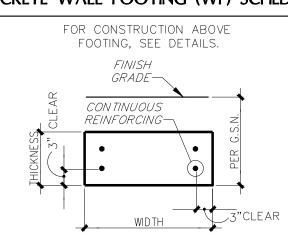
NOTED OTHERWISE: VERTICAL: #5 AT 8" O.C. HORIZONTAL: #4 AT 48" O.C. MAXIMUM.

EXISTING 8" CONCRETE WALL.

#### FOUNDATION PLAN NOTES

- VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
- FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
- THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL
- WF1, WF2, ETC. AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- W1, W2, ETC. AS SHOWN ON PLAN INDICATES WALL REINFORCING. SEE WALL REINFORCING SCHEDULE FOR ADDITIONAL INFORMATION.
- CCJ AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEYED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL 101.
- VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS.
- FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- MCJ AS SHOWN ON PLAN INDICATES A MASONRY CONTROL JOINT IN A MASONRY WALL. SEE GENERAL STRUCTURAL NOTES AND TYPICAL DETAIL.

#### CONCRETE WALL FOOTING (WF) SCHEDULE



#### STRIP FOOTING

| AAADK | DIMEN | ISIONS               | FOOTING DEINIFORCING           | FOOTING |  |  |
|-------|-------|----------------------|--------------------------------|---------|--|--|
| MARK  | WIDTH | THICKNESS            | FOOTING REINFORCING            | ТҮРЕ    |  |  |
| WF1   |       | SE                   | E DETAIL <b>107</b>            | STRIP   |  |  |
| WF2   |       | SE                   | [ STRIP ]                      |         |  |  |
| WF3   | 24"   | 12"                  | (3) #4 CONTINUOUS              | STRIP   |  |  |
| WF4   | 16"   | SEE<br>DETAIL<br>104 | (2) #4 CONT.<br>TOP AND BOTTOM | STRIP   |  |  |

| WALL REINFORCING (W) SCHEDULE |            |                         |         |  |  |  |  |  |  |
|-------------------------------|------------|-------------------------|---------|--|--|--|--|--|--|
| MARK                          | THICKNESS  | REINFORCING             | REMARKS |  |  |  |  |  |  |
| W1                            | S          | SEE DETAIL <b>107</b>   |         |  |  |  |  |  |  |
| W2                            | 8" MASONRY | #5 AT 8" O.C. CENTERED  |         |  |  |  |  |  |  |
| W3                            | 8" MASONRY | #5 AT 48" O.C. CENTERED |         |  |  |  |  |  |  |

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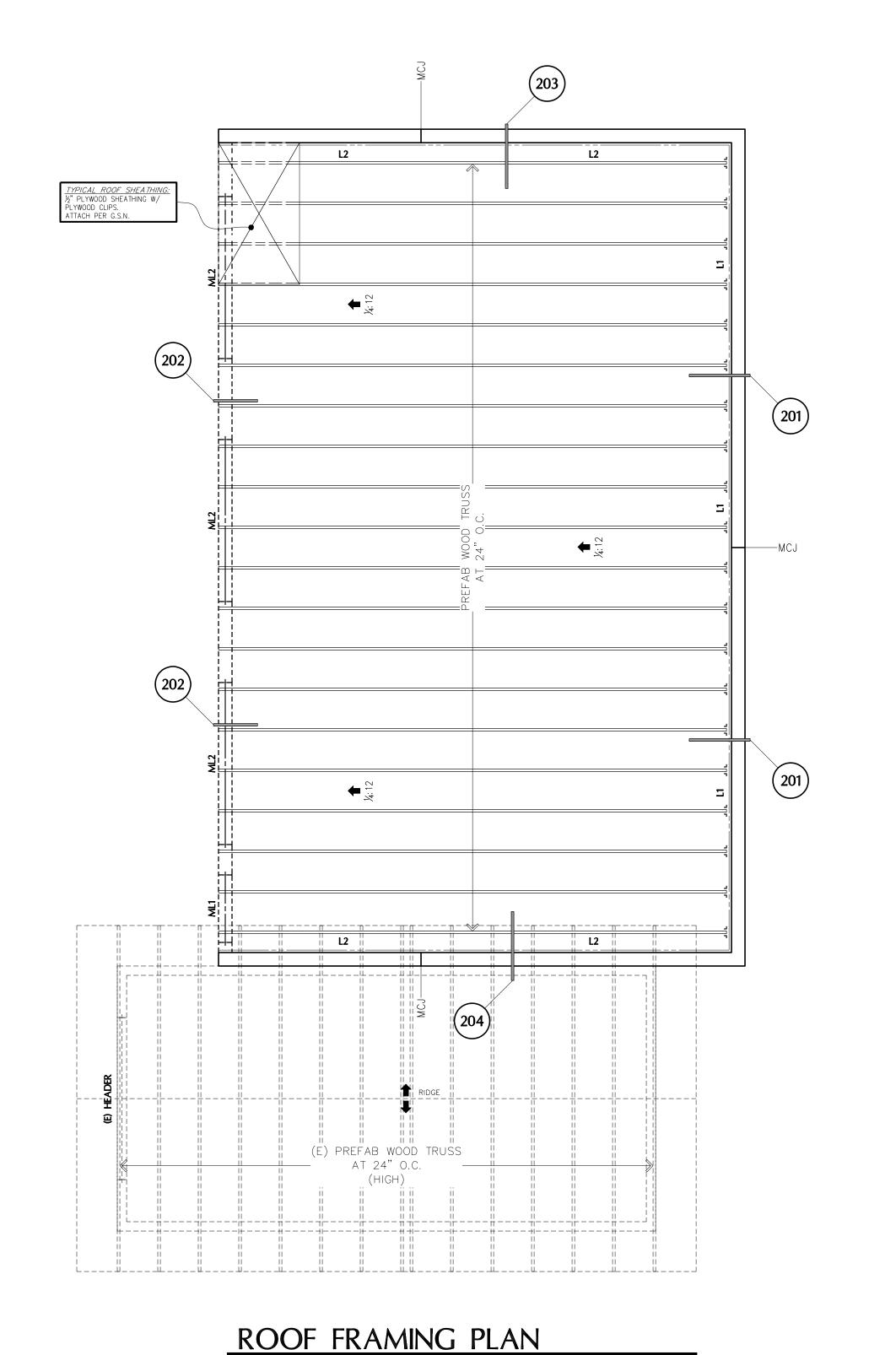
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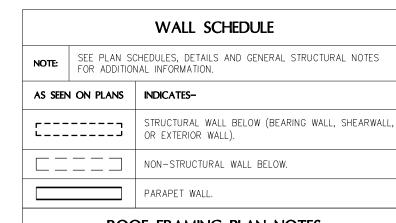
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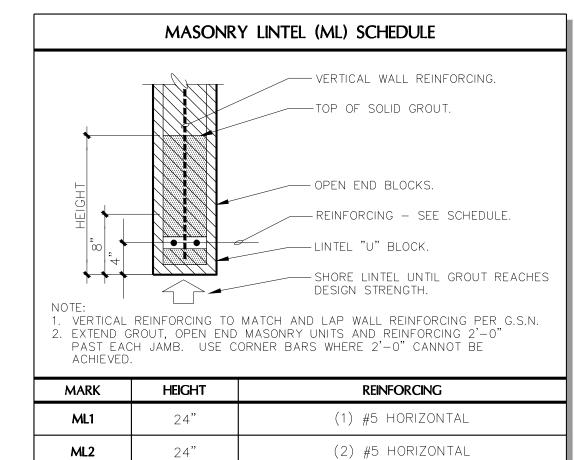
1/4" = 1'-0"



#### ROOF FRAMING PLAN NOTES

- VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
- FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
- ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
- ML1, ML2, ETC. AS SHOWN ON PLAN INDICATES A MASONRY LINTEL. SEE MASONRY LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.
- FOR MISCELLANEOUS LINTELS NOT SHOWN, SEE G.S.N. MASONRY CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SIZES AND LOCATIONS.
- L1, L2, ETC. AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
- MCJ AS SHOWN ON PLAN INDICATES A MASONRY CONTROL JOINT IN A MASONRY WALL. SEE G.S.N. AND TYPICAL DETAIL. JOINTS MAY BE SHOWN, BUT NOT NOTED ON THIS PLAN. SEE FOUNDATION PLAN FOR NOTED





|      | LEDGER (L) SCHEDULE |                                                                         |  |  |  |  |  |  |  |
|------|---------------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|
| MARK | SIZE                | CONNECTION                                                              |  |  |  |  |  |  |  |
| L1   | 3X10                | (2) ¾"ø BOLTS AT 32" O.C.<br>(OR (1) ¾"ø BOLT AT 16" O.C.<br>STAGGERED) |  |  |  |  |  |  |  |
| L2   | 3X6                 | (1) ¾"ø BOLT AT 48" O.C.                                                |  |  |  |  |  |  |  |

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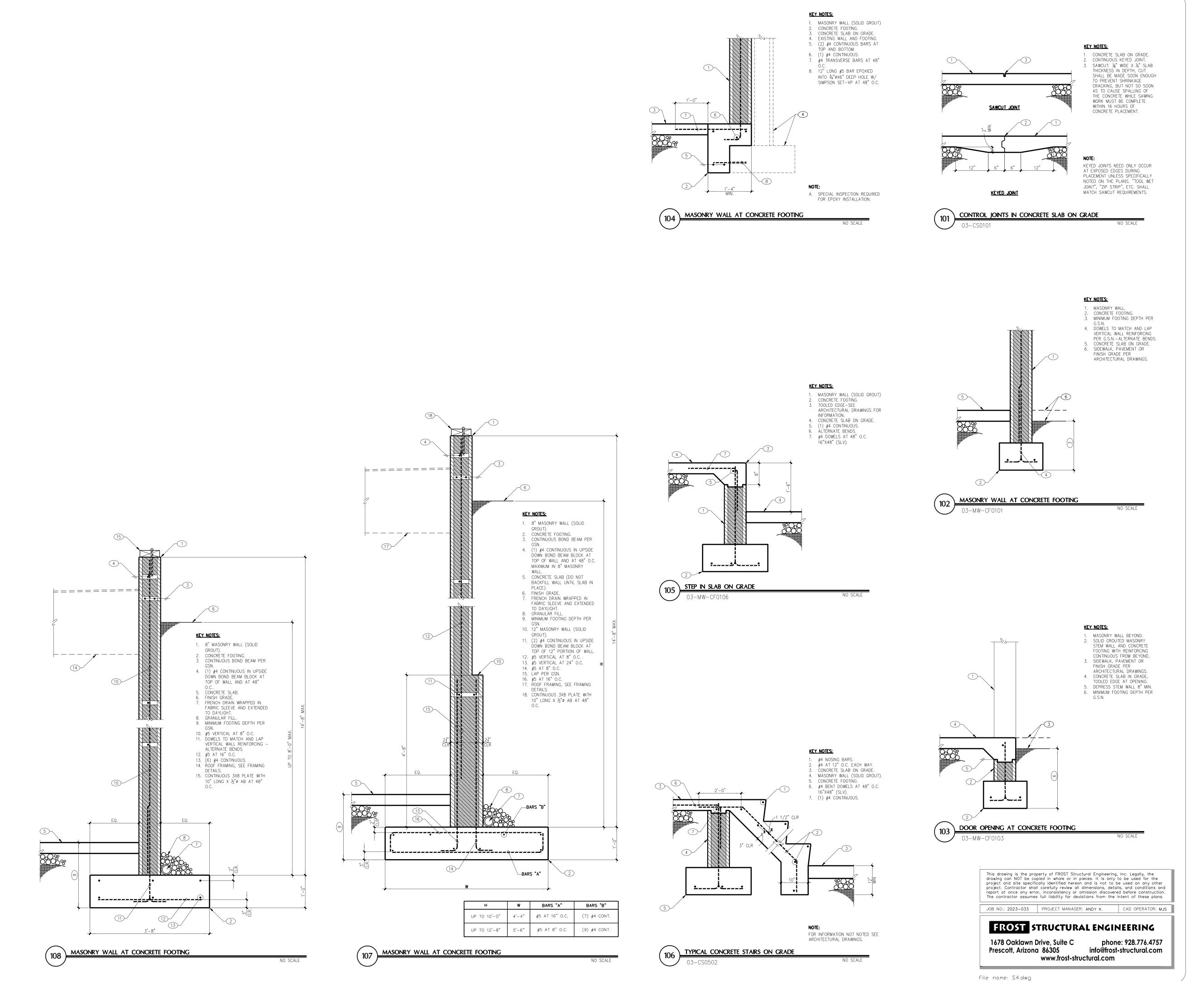
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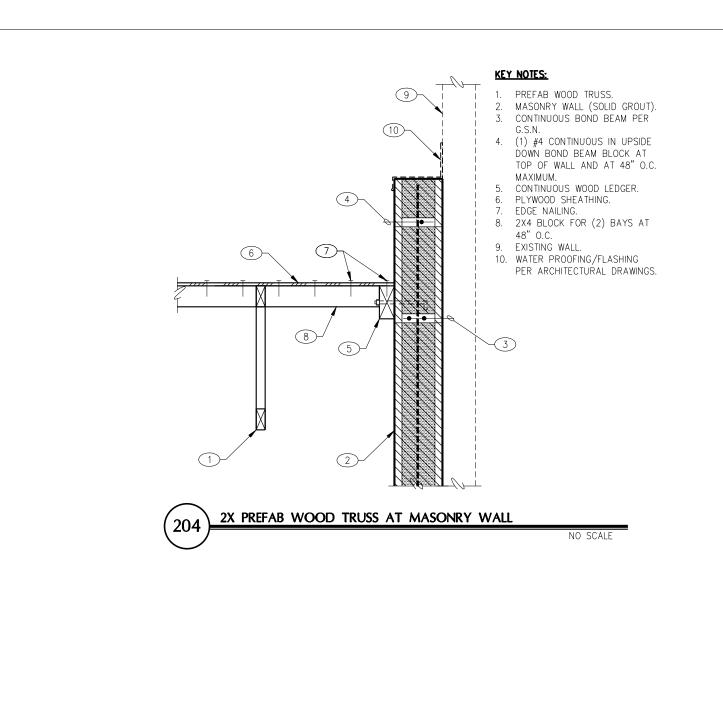
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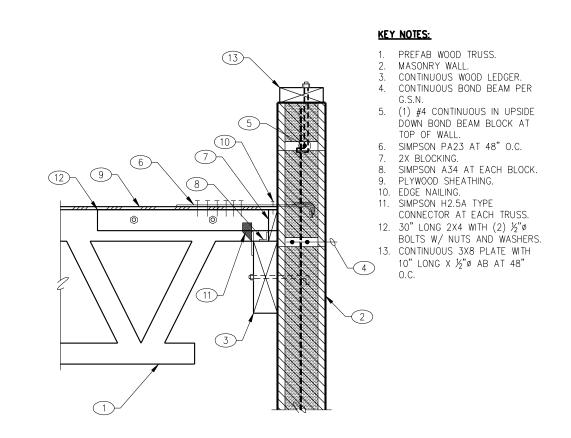
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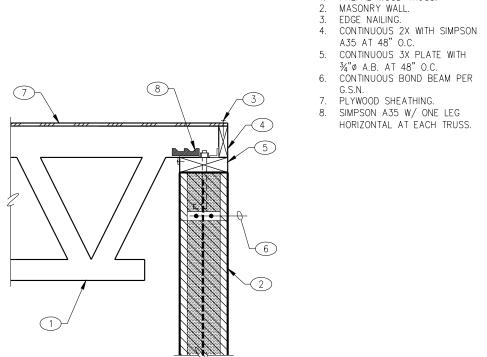
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(201) 2X PREFAB WOOD TRUSS AT MASONRY WALL 06-WT-MW0301



202 2X PREFAB WOOD TRUSS AT MASONRY WALL

KEY NOTES: 1. PREFAB WOOD TRUSS.
2. MASONRY WALL (SOLID GROUT).
3. CONTINUOUS BOND BEAM PER

OCUM 4. (1) #4 CONTINUOUS IN UPSIDE
DOWN BOND BEAM BLOCK AT
TOP OF WALL.
5. CONTINUOUS WOOD LEDGER.

KEY NOTES:

1. PREFAB WOOD TRUSS.

6. PLYWOOD SHEATHING.
7. EDGE NAILING.
8. 2X4 BLOCK FOR (2) BAYS AT 48" O.C.
9. CONTINUOUS 3X8 PLATE WITH 10" LONG ½"ø AB AT 48" O.C.

(203) 2X PREFAB WOOD TRUSS AT MASONRY WALL

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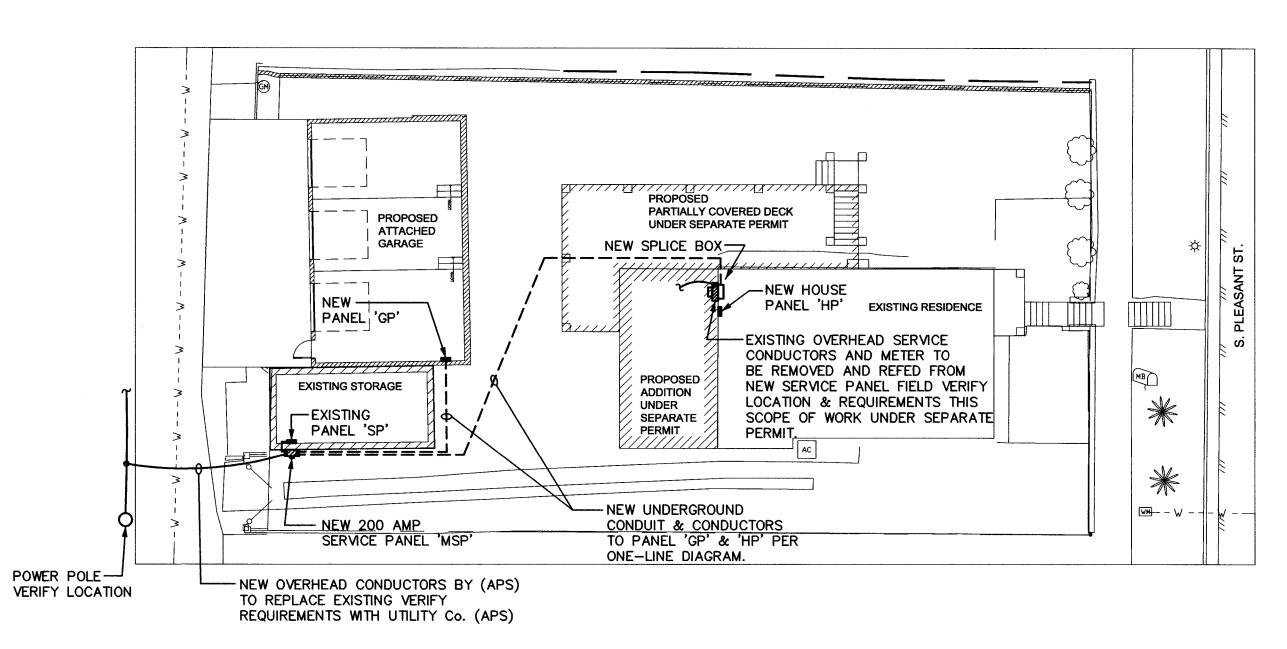
W. Alan Kenson & Associates, P.C.

MJS CHECKED BY ANDY K. PLOT DATE

DRAWING:

2023-033 SHEET

4/4/23



## **ELECTRICAL SITE PLAN**

| PANELBOARD                |                                                  | SP          |                 |              | SCHEDULE    |         |                     |
|---------------------------|--------------------------------------------------|-------------|-----------------|--------------|-------------|---------|---------------------|
| MAINS: 50A MLO            |                                                  |             |                 |              | LOC         | ATION:  | SEE PLAN            |
| VOLTAGE: 120/240V, 1ø, 3W |                                                  |             | LOAI            | D-VA         | MOU         | NTING:  | SURFACE             |
| TYPE: EXISTING SIEMENS    |                                                  |             |                 |              | MIN.        | A.I.C.: | 22/10K SERIES RATED |
| CIRCUIT DESCRIPTION       | BKR.                                             | CIR.<br>NO. | ØA              | øc           | CIR.<br>NO. | BKR.    | CIRCUIT DESCRIPTION |
| LIGHTS                    | 15/                                              | 1           |                 | -            | 2           |         |                     |
| RECEPTACLES               | 20                                               | 3           | $\frac{1}{2}$   |              | 4           |         |                     |
|                           | <del>                                     </del> | 5           |                 |              | +           |         |                     |
|                           |                                                  |             | $\triangleleft$ |              | 6           |         |                     |
|                           |                                                  | 7           | $\circ$         |              | 8           |         |                     |
|                           |                                                  | 9           |                 |              | 10          |         |                     |
|                           | ewline                                           | 11          | S               |              |             |         |                     |
| <del>'</del>              |                                                  | 13          |                 |              | 12          |         |                     |
|                           |                                                  | 15          | $\rightarrow$   | $\leftarrow$ | 14          |         |                     |
|                           |                                                  |             |                 |              | 16          |         |                     |
|                           |                                                  | 17          |                 |              | 18          |         |                     |
|                           |                                                  | 19          |                 |              | 20          |         |                     |
|                           |                                                  | 21          |                 |              |             |         |                     |
|                           |                                                  | 23          |                 |              | 22          |         |                     |
|                           |                                                  | <u> </u>    |                 |              | 24          | L       |                     |
| TOTAL LOAD PER PHASE:     |                                                  |             |                 |              | HIØ         |         |                     |

| <b>PANELBOARD</b>         |      | GP          |                     |      | SCHEDULE    |         |                               |
|---------------------------|------|-------------|---------------------|------|-------------|---------|-------------------------------|
| MAINS: 70A MLO            |      |             |                     |      | LOC         | ATION:  | SEE PLAN                      |
| VOLTAGE: 120/240V, 1ø, 3W |      |             | LOAD                | )-VA | MOU         | NTING:  | SURFACE                       |
| TYPE: GE, SQ D OR EQUAL   |      |             |                     |      | MIN.        | A.I.C.: | 22/10K SERIES RATED           |
| CIRCUIT DESCRIPTION       | BKR. | CIR.<br>NO. | ØA                  | øc   | CIR.<br>NO. | BKR.    | CIRCUIT DESCRIPTION           |
| LIGHTS - INTERIOR         | 20   | 1           |                     |      | 2           | 20/1    | RECEPTACLE (GFCI)             |
| LIGHTS - EXTERIOR SPARE   |      | 3           |                     |      | 4           |         | RECEPTACLE (GFCI)             |
| SPARE                     |      | 5           | $-\omega$           |      | 6           |         | GARAGE DOOR OPENERS           |
| SPARE                     |      | 7           | $\hat{\mathcal{C}}$ |      | 8           |         | RECEPTACLES - EXTERIOR (GFCI) |
| CAR CHARGER               | 50 / | 9           | 4                   |      | 10          |         | SPACE HEATERS                 |
|                           | 2    | 11          | O                   |      | 12          | 1       | SPACE HEATERS                 |
| SPACE                     |      | 13          |                     |      | 14          |         | SPACE                         |
|                           |      | 15          | S                   |      | 16          |         |                               |
|                           |      | 17          |                     |      | 18          |         |                               |
|                           |      | 19          |                     |      | 20          |         |                               |
|                           |      | 21          |                     |      | 22          |         |                               |
|                           |      | 23          |                     |      | 24          |         | V                             |
| TOTAL LOAD PER PHASE:     |      |             |                     |      | HIØ         | -       |                               |

### ONE LINE GENERAL NOTES

-OVERHEAD SERVICE

**WEATHERHEAD** 

200/2 C/B

CONDUCTORS BY

UTILITY Co.

GROUND ROD

- 1. SYSTEM SHOWN IS A TWO TIER SERIES RATED SYSTEM 22/10K. MANUFACTURER SHALL PROVIDE A UL LISTED SYSTEM TO MATCH THIS RATING.
- 2. MOTOR SHORT CIRCUIT CONTRIBUTION IS LESS THAN 1% OF SYSTEM SHORT CIRCUIT AMPS.
- 3. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR

3#4/0 AUMINUM ---

VERIFY WITH

UTILITY CO.

PRIOR TO

ROUGH-IN

COLD WATER BOND, GAS & BLDG. STEEL

BOND FINISH FLOOR IN 2" RGC C. PER UTILITY Co. SPEC'S.

## ONE LINE KEYNOTES

NEW SERVICE CABINET W/METER & MAIN CB

JMT, SIEMENS, EATON, SUN VALLEY OR EQUAL

**GARAGE** 

PANEL 'GP'

— 3#6 CU., 1#10 CU. BOND, 1" C.

200 A-120/240V -1 PHASE -3 WIRE

FIELD VERIFY MOUNTING LOCATION

BACKFEED EXISTING STORAGE

PANEL 'SP'

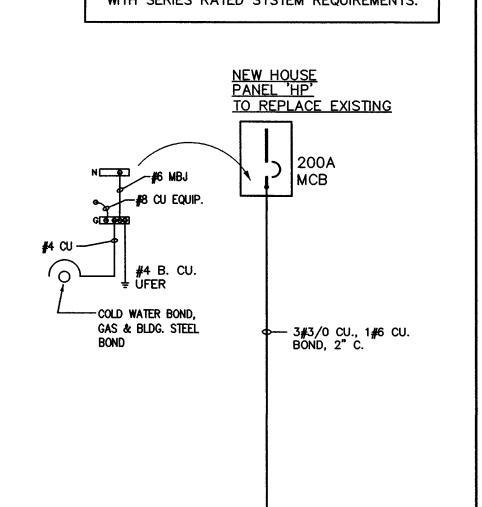
NEMA 3R BRACED FOR 22,000 AIC MIN.

- 1 PROVIDE A PERMANENT LABEL READING "THIS CIRCUIT BREAKER IS PART OF A SERIES RATED SYSTEM WITH DOWNSTREAM PANELS 22/10K. 22,000 AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED"
- 2 PROVIDE A PERMANENT LABEL READING "CAUTION— SERIES RATED SYSTEM 22/10, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"



MAXIMUM AVAILABLE FAULT CURRENT = 14,318 AMPS SYMM (VERIFY WITH UTILITY COMPANY PRIOR TO ORDERING EQUIPMENT)

ELECTRICAL CONTRACTOR SHALL COMPLY WITH SERIES RATED SYSTEM REQUIREMENTS.



## EXISTING ELEC. ONE-LINE DIAGRAM - 'SES'

FIRST 10 KVA AT 100%

NOTE: ALL CONDUCTOR SIZES ARE BASED ON 'XHHW'. 'THHN' / THWN' COPPER.

EXISTING ----

MAIN SERVICE

NEW 200/2P C/B

TO BACKFEED HOUSE PNL. 'HP'

PANEL 'MSP'

N.T.S.

#### PANELBOARD SYMBOLS

- AFCI TYPE CIRCUIT BREAKER
- HACR TYPE CIRCUIT BREAKER
- △ GFCI TYPE CIRCUIT BREAKER

| PANELBOARD HP SCHEDULE                    |            |             |                                         |             |             |                                  |           |                                              |  |  |
|-------------------------------------------|------------|-------------|-----------------------------------------|-------------|-------------|----------------------------------|-----------|----------------------------------------------|--|--|
| MAINS: 200A MLO<br>VOLTAGE: 120/240-1#-3W |            |             | LOAD                                    | -VA         |             | ATION:<br>NTING:                 |           | SEE PLAN (GARAGE VERIFY W/ARCHITECT) SURFACE |  |  |
| TYPE: SQ D OR EQUAL                       | D OR EQUAL |             |                                         |             | MIN.        | MIN. A.I.C.: 22/10K SERIES RATED |           |                                              |  |  |
| CIRCUIT DESCRIPTION                       | BKR.       | CIR.<br>NO. | ØA                                      | Øс          | CIR.<br>NO. | BKR.                             | .         | CIRCUIT DESCRIPTION                          |  |  |
| GEN. LIGHTING/REC'S. (AFCI)               | 20         | 1           |                                         |             | 2           | 20<br>1                          | 1         | MASTER BATHROOM RECEPT'S.                    |  |  |
|                                           |            | 3           |                                         |             | 4           |                                  |           |                                              |  |  |
|                                           |            | 5           |                                         |             | 6           |                                  | T         | KIT. APPLIANCE RECEPT'S.                     |  |  |
|                                           |            | 7           |                                         |             |             |                                  | 1         |                                              |  |  |
|                                           |            | 9           |                                         |             | 8           |                                  | +         |                                              |  |  |
| DIG INACIED                               |            | 11          | • · · · · · · · · · · · · · · · · · · · |             | 10          |                                  | +         |                                              |  |  |
| DISHWASHER  COMPACTOR                     |            | 13          |                                         |             | 12          |                                  | +         | DEEDIOEDATOO ADEETED                         |  |  |
|                                           |            | 15          |                                         |             | 14          |                                  | +         | REFRIGERATOR/FREEZER                         |  |  |
| MICROWAVE                                 |            |             |                                         |             | 16          | •                                |           | SPARE                                        |  |  |
| EXHAUST HOOD                              |            | 17          |                                         |             | 18          | 30                               | 4         | WATER HEATER (IF REQUIRED)                   |  |  |
| DISPOSAL                                  |            | 19          |                                         |             | 20          | $\sqrt{2}$                       |           |                                              |  |  |
| COFFEE SYSTEM (IF REQUIRED)               |            | 21          |                                         |             |             | 50                               | 7         | RANGE                                        |  |  |
| WARMING DRAWER (IF REQUIRED)              |            | 23          |                                         |             | 24          | /2                               | :         |                                              |  |  |
| SPARE                                     |            | 25          |                                         | <del></del> | 26          | 20                               | 1         | RESTROOM RECEPT. (GFCI)                      |  |  |
| SPARE                                     |            | 27          | , ()<br>()                              |             | 28          | 1                                |           | RESTROOM RECEPT. (GFCI)                      |  |  |
| LAUNDRY WASHER                            |            | 29          | <u> </u>                                |             | 30          |                                  | 1         | SPARE                                        |  |  |
| LAUNDRY DRYER                             | 30         | 31          | Ö                                       |             | 32          |                                  | T         | FURNACE F-1                                  |  |  |
|                                           | /2         | 33          |                                         |             | 34          |                                  | 1         | FURNACE F-2                                  |  |  |
| A/C CONDENSING UNIT AC-1                  | 50/        | 35          | S                                       |             | 36          | 30                               | 7         | A/C CONDENSING UNIT AC-2                     |  |  |
|                                           | /2         | 37          |                                         |             | 38          | /2                               | :         | SPACE                                        |  |  |
| SPACE                                     |            | 39          | •                                       |             | 40          |                                  | $\dagger$ | SPACE                                        |  |  |
| SPACE                                     |            | 41          |                                         |             | 42          |                                  | 1         | SPACE                                        |  |  |
|                                           |            |             |                                         |             | +**         | L                                |           |                                              |  |  |

| ELEC. FAULT CURRENT CALCULA                                                        | TIONS                                                                            |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| PANEL 'HP'                                                                         | PANEL 'GP'                                                                       |
| $f = \frac{2 \times 60^{\circ} \times 14,318 \text{ A}}{10740 \times 240V} = .666$ | $f = \frac{2 \times 20^{\circ} \times 8,590 \text{ A}}{2430 \times 240V} = .589$ |
| $M = \frac{1}{1 + .666} = .148$                                                    | $M = \frac{1}{1 + .589} = .629$                                                  |
| $I_{sc} = 14,318 \text{ A x } .600 = 8,590 \text{ AMPS}$                           | $I_{SC} = 8,590 \text{ A x } .629 = 5,403 \text{ AMPS}$                          |

| TOTAL | SERVICE | PANEL | 'MSP' | ELEC. | LOAD | CALC'S: |
|-------|---------|-------|-------|-------|------|---------|

| 200 AMP SERVICE ENTRANCE SECTION:                          |    |           |
|------------------------------------------------------------|----|-----------|
| GENERAL LIGHTING & RECEPT'S. (3,000 SQ. FT. @ 5VA/SQ. FT.) | =  | 15,000 VA |
| SMALL APPLIANCE LOAD: 3 CKTS. @ 1500 VA                    | =  | 4,500 VA  |
| DISHWASHER: 1 @ 1200 VA                                    | =  | 1,200 VA  |
| COMPACTOR: 1 @ 830 VA                                      | =  | 830 VA    |
| DISPOSAL: (1) @ 1590 VA                                    | =  | 1,590 VA  |
| MICROWAVES: (1) @ 1500 VA                                  | =  | 1,500 VA  |
| RANGE COOKTOP                                              |    | 12,000 VA |
| REFRIGERATOR/FREEZER                                       | =  | 1,500 VA  |
| WATER HEATER (ELECTRIC FIELD VERIFY)                       | =  | 4,500 VA  |
| U.C. REFRIGERATORS 1 @ 750 VA (IF REQUIRED)                | == | 750 VA    |
| LAUNDRY (WASHER) LOAD: 1 @ 1500 VA                         | =  | 1,500 VA  |
| LAUNDRY (DRYER) LOAD: 1 @ 5000 VA                          | -  | 5,000 VA  |
| EXTERIOR RECEPT'S.                                         | =  | 1,400 VA  |
| EXTERIOR LIGHTING:                                         | =  | 1,400 VA  |
| STORAGE PANEL 'SP'                                         | =  | 4,000 VA  |
| GARAGE PANEL 'GP'                                          | =  | 10,000 VA |
|                                                            |    |           |

SUB-TOTAL = 66,670 VA

= 10,000 VA

REMAINDER AT 40% (56,670VA X 0.4) = 22,668 VA

TOTAL = 32,668 VAHEATING & COOLING LOAD:

FURNACES INDOOR UNIT FC-1 (1 @ 9.0A x 120V) @ 100% = 1,080 VA FURNACES INDOOR UNIT FC-2 (1 @ 7.5A x 230V) @ 100% = 1,725 VA A/C COND'G. UNIT HP-1 (1 @ 20.3A x 230V) @ 100% = 4,669 VA A/C COND'G. UNIT HP-2 (1 @  $28.2A \times 230V$ ) @ 100%= 6,486 VA

> GRAND TOTAL = 46,628 VA ÷ 240 V

TOTAL PANEL LOAD = 194.2 AMPS

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PROJECT:

CHECKED BY June 15th, 2023 JOB NO. **790** SHEET