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REVISION:

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FLOOR PLAN

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17 MAY 2006

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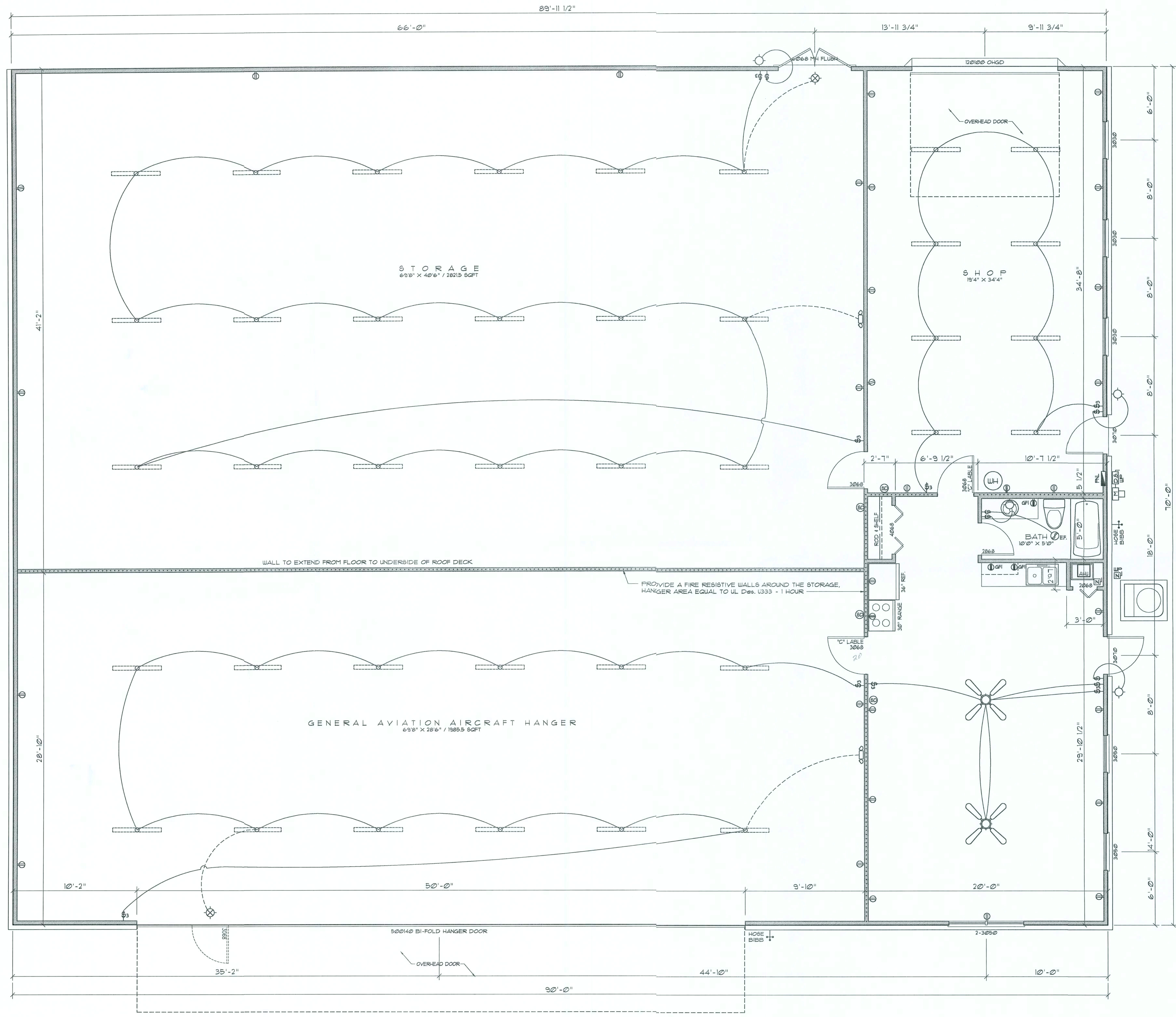
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ELECTRICAL NOTES: General

- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER.
- INSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NEC 1997 EDITION, AND ITS AMENDMENTS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.
- GROUNDING: GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND ROD(S) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-1994.
- INSTALL ONLY COPPER WIRING ON THIS PROJECT: THW, TW, THHN, THWN OR NM CABLE, UNLESS NOTED OTHERWISE. ALL CONDUCTORS #10 & SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED TYPE.
- PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINGING OUT A TAP, ASSURING NO OPENINGS OF NEUTRAL IN REPLACEMENT OF A DEVICE.
- COLOR CODE MULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL - WHITE, GROUND - GREEN, LINE - ALL OTHER COLORS.
- INSTALL ONLY HIGH POWER FACTOR BALLASTS AT FLUORESCENT FIXTURES.
- INSTALL GFI BREAKERS OF DEVICES AT ALL BATHROOM, RESTROOM, KITCHEN, GARAGE, AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS.
- INSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" OR OTHER RECOGNIZED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.
- INSTALL NON-FUSED DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT: SIZE IN ACCORD WITH THE LOAD. ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE - QUICK-BREAK TYPE - ENCLOSURES SHALL BE AS REQ'D FOR EXPOSURE.
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVERLOAD RELAYS IN EACH HOT LEG.
- ISOLATE DISSIMILAR CONDUIT AND TUBING METALS FROM SOIL, WATER AND GAS PIPING AND OTHER BUILDING MATERIALS WHERE DAMAGE BY FRICTION OR ELECTROLYSIS MAY OCCUR, EXCEPT WHERE ELECTRICAL GROUND IS PROVIDED.
- FURNISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRES FOR A COMPLETE, OPERATING SYSTEM, PROVIDING THE FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).
- OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS. FOR WET LOCATIONS, CAST ALLOY WITH THREADED HUB OUTLET BOXES SHALL BE INSTALLED.
- HOT CHECK ALL SYSTEMS WITH THE OWNER'S REPRESENTATIVE PRESENT TO VERIFY PROPER FUNCTION PRIOR TO C.O.
- COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. COORDINATE WITH HVAC CONTRACTOR AND ELECTRONICS SYSTEMS CONTRACTORS SO THAT A COMPLETE, FUNCTIONING SYSTEM IS INSTALLED, IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.
- EMERGENCY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 100-10F.
- ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN. EA. CIRCUIT SHALL BE CLEARLY IDENTIFIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY.
- FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HVAC SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR, AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
- ALL RACEWAYS BELOW GROUND SHALL BE A MINIMUM OD 3/4".
- ALL CIRCUIT BREAKERS, TWO AND THREE POLE, SHALL BE COMMON TRIP, NO TIE HANDLES OR TANDEM'S SHALL BE ACCEPTABLE.
- ALL FUSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE CURRENT LIMITED TYPE (CL) RATED 100,000 AIC.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CORRECTNESS OF SAME. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK.
- CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB, THROUGHOUT.
- CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMPERAGE RATING PRIOR TO CONNECTION TO CIRCUITS.
- PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF CIRCUITS.
- WHEN CONDUIT RUNS EXCEED 100 FEET, FULL BOXES SHALL BE INSTALLED SO THAT NO FULL EXCEEDS THIS DISTANCE.
- ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZE SHOWN ON THE PLANS ARE DESIGNED FOR MAX. AVAILABLE FAULT CURRENT AND MAX. ALLOWABLE VOLTAGE DROP, RESPECTIVELY.



Floor PLAN

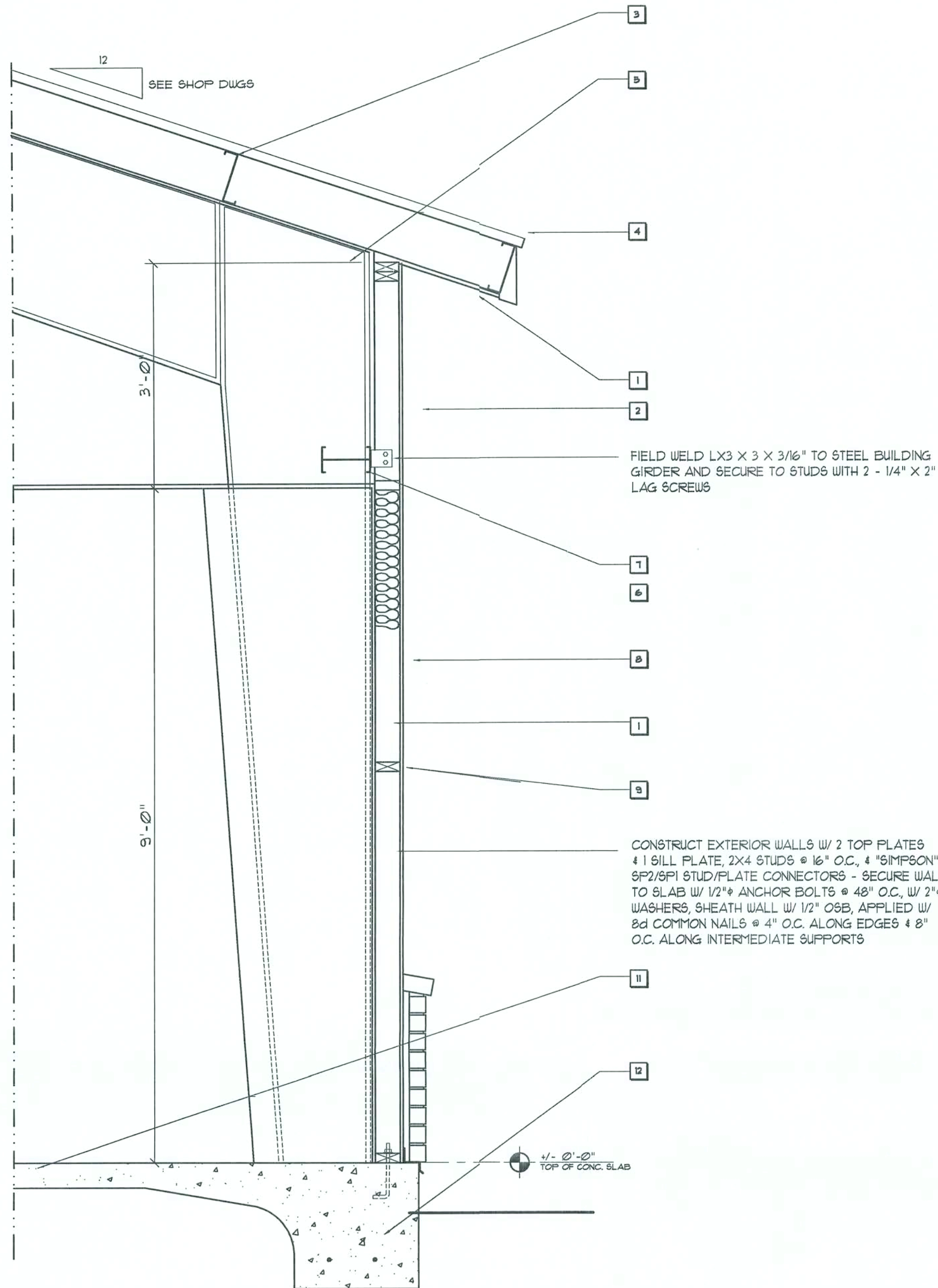
SCALE: 1/4" = 1'-0"

NOTE:
EMERGENCY LIGHTING AND EXIT SIGNS, SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHAL, AND SHALL BE WIRED PER NEC 100-10F.

NOTE:
REFER TO METAL BUILDING MANUFACTURER'S SHOP DRAWINGS FOR ALL STEEL BUILDING COMPONENTS AND THEIR EXACT LOC. - SEE ALSO THE FOUNDATION PLAN FOR ALL REQUIREMENTS OF FOUNDATION DESIGN AND CONSTRUCTION

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Typical Wall SECTION

SCALE: 3/4" = 1'-0"

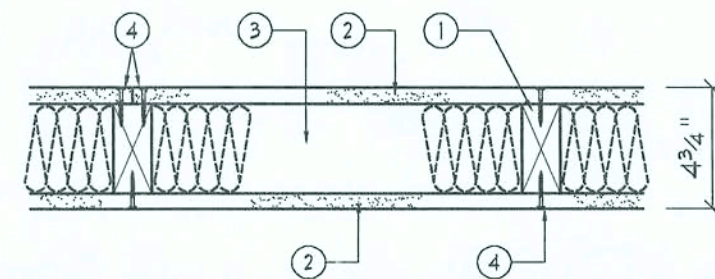
| FNL "A": 200A - MLO - 120/240V - 1φ - 4W 10K A.I.C. - FLUSH - 40 SLOT | | | | | | | | | | | |
|--|---------------------------------|------------|-----------|-------|-------|-------|------|-----------|------------|--------------------|----------|
| CIR. Nr. | LOCATION | TRIP/POLES | WIRE SIZE | LOAD | L1 KW | L2 KW | LOAD | WIRE SIZE | TRIP/POLES | LOCATION | CIR. Nr. |
| 1 | SHOP LIGHTS | 20A/1P | 12TW | 0.80 | 1.16 | - | 0.36 | 12TW | 20A/1P | BATH | 2 |
| 3 | HANGER LIGHTS | 120 | - | 1.20 | - | 3.45 | 2.25 | 10TW | 30A/2P | ELH | 4 |
| 5 | STORAGE LIGHTS | 120 | - | 1.20 | 4.05 | - | 2.25 | - | - | W/ Nr. 4 | 6 |
| 7 | SHOP RECEIPT | 150 | - | 1.50 | - | 5.50 | 4.00 | 6TW | 50A/2P | RANGE | 8 |
| 9 | SHOP RECEIPT | 150 | - | 1.50 | 5.50 | - | 4.00 | - | - | W/ Nr. 8 | 10 |
| 11 | HANGER RECEIPT | 0.80 | - | 0.80 | - | 2.30 | 1.50 | 12TW | 20A/1P | REFRIGERATOR | 12 |
| 13 | HANGER RECEIPT | 0.80 | - | 0.80 | 1.88 | - | 1.08 | - | - | GP RECEIPT | 14 |
| 15 | STORAGE RECEIPT | 0.80 | - | 0.80 | - | 1.88 | 1.08 | - | - | GP RECEIPT | 16 |
| 17 | STORAGE RECEIPT | 0.80 | - | 0.80 | 1.88 | - | 1.08 | - | - | GP RECEIPT | 18 |
| 19 | SPARE | - | - | 0.34 | - | 0.30 | 0.36 | - | - | O/S INC. LIGHTS | 20 |
| 21 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | SPARE | 22 |
| 23 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 24 |
| 25 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 26 |
| 27 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 28 |
| 29 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 30 |
| 31 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 32 |
| 33 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 34 |
| 35 | - | - | - | 0.34 | - | 1.08 | 0.34 | - | - | - | 36 |
| 37 | COND. UNIT (2.0T H.F.) | 20A/2P | 12TW | (120) | 2.30 | - | 2.30 | 10TW | 30A/2P | AHU W/ 5.0 KW HEAT | 38 |
| 39 | W/ Nr. 37 | - | - | (120) | - | 2.30 | 2.30 | - | - | W/ Nr. 38 | 40 |
| L1 | 2169 KW / 120 V = 180.75 AMPERS | | | | 2169 | 2125 | | | | | |
| L2 | 2125 KW / 120 V = 177.08 AMPERS | | | | | | | | | | |
| FEEDER SIZE: 2 * 3/0 - THW - Cu, 1 * 2/0 - THW - Cu - Neut. 1 * 4 - Cu - GND, 2 1/2" C. | | | | | | | | | | | |

SECTION NOTES

- PERFORATED ALUMINUM SOFFIT AS SELECTED BY THE OWNER
- HARDIEBOARD SIDING: COLOR, TEXTURE AND STYLE AS SELECTED BY THE OWNER, INSTALLED AS PER THE MFG'S RECOMMENDATIONS AND SPECIFICATIONS.
- STEEL BUILDING "ZEE" PURLIN AT 5'-0" O.C., REFER TO STEEL BUILDING MFG'S SHOP DRAWINGS
- STEEL BUILDING ROOF DECK, CONTINUOUS THROUGHOUT, REFER TO STL. BLDG. SHOP DUGS
- STEEL BUILDING STRUCTURAL STEEL FRAMES MEMBERS, BOLTED ASSEMBLY PER THE STL. BLDG. SHOP DUGS
- R18 BATT INSULATION IN WALL CAVITY
- STEEL BUILDING GIRDER, CONTINUOUS, REFER TO THE STL. BLDG. SHOP DRAWINGS
- 1/2" GUSB INTERIOR WALL FINISHED, TAPED, Sanded AND PRIMED TO RECEIVE FURTHER FINISHES AS DIRECTED BY THE OWNER, ON P/T 1X2 WOOD FURRING AT 16" O.C.
- CONTINUOUS 2X6 FIRE BLOCKING
- N. 9 GA STEEL SUSPENSION WIRES @ 4'-0" O.C. ALONG EACH CARRYING MEMBER
- 4" CONCRETE SLAB - SEE FOUNDATION PLAN AND FINISH SCHEDULE FOR NOTES AND FINISHES
- MONOLITHIC SLAB EDGE FOOTING - REFER TO THE FOUNDATION PLAN PREPARED BY OTHERS FOR SIZES AND REINFG

Design No. U333

Bearing Wall Rating-1 Hr.
Finish Rating-23 Min.



1 Wood Studs-Nom 2 by 4 in, spaced 16 in. D.C. effectively cross-braced.

2 Gypsum Wallboard-5/8 in. thick, 4 ft wide, applied either vertically or horizontally, screw attached to studs and plates with 1 1/4 in. long Type W steel screws, spaced 12 in. D.C.

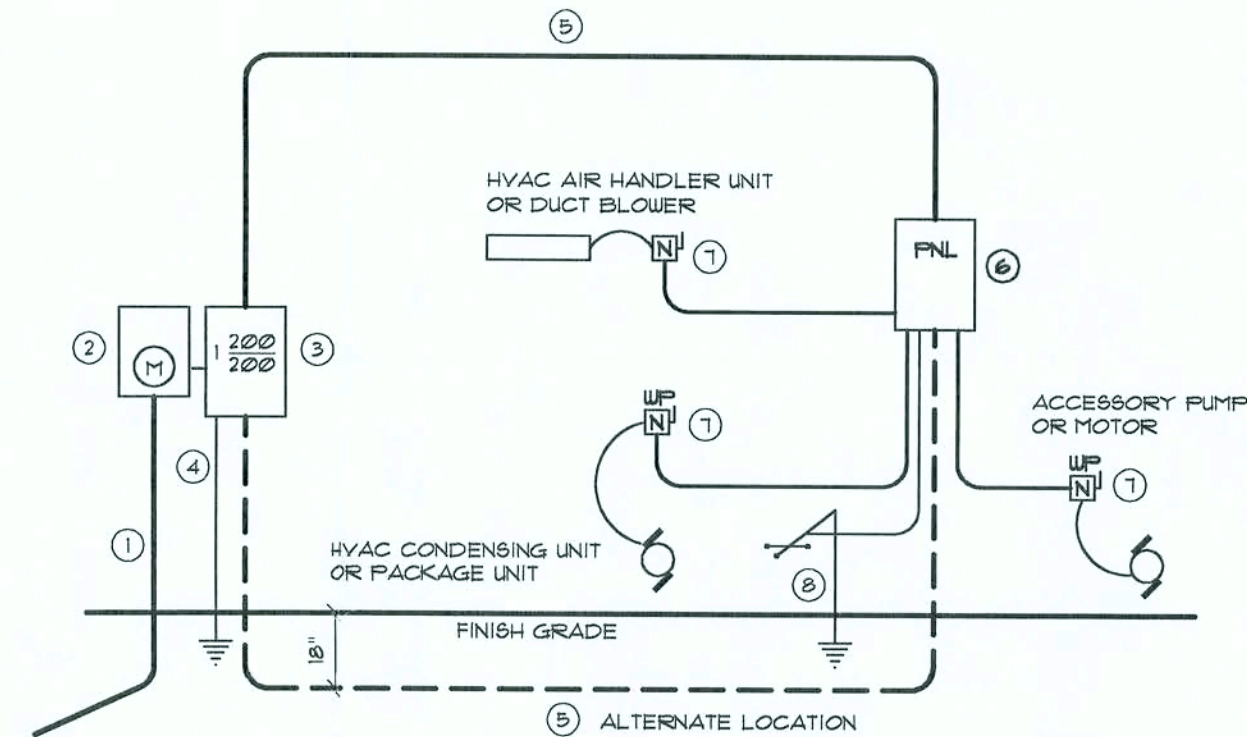
Canadian Gypsum Co. Ltd.-Type C.
Georgia-Pacific Corp., Gypsum Div.-Type GFFS-C.
United States Gypsum Co.-Type C or IF-X2.

3. Batts and Blankets-(Optional)-Mineral wool insulation, partially or completely filling stud cavity.

USG Interiors Inc.
United States Gypsum Co.

4. Joints and Nailheads-Wallboard joints covered with paper tape and joint compound. Screwsheads covered with joint compound.

*Bearing the UL Classification Marking



- Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor. Service/Entrance conductors shall not be spliced except that bolted connections at the Meter Disconnecting Devices and Panel shall be allowed.
- Meter Enclosure, weatherproof, UL Listed.
- Main Disconnect Switch: fused or Main BRKR, weatherproof, UL Listed.
- Service entrance Ground: 3/4" x 8" iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding Conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per item 5, below.
- 200 AMPERE SERVICE: 3-1/2-USE-Cu, 1-1/4-Cu-GND, 2 1/2" Conduit.
- House Panel (FNL), UL Listed, sized per schedule.
- Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
- Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE:
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

ELECTRICAL RISER DIAGRAM: 200A

SCALE: NONE

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

ALL RECEPTALS IN BEDROOMS SHALL BE ON ARC FAULT INTERRUPTER CIRCUITS (AFCI), PER NEC 210-12

ALL RECEPTALS IN BATHROOMS, KITCHENS AND EXTERIOR LOCATIONS SHALL BE ON GROUND FAULT INTERRUPTER CIRCUITS (GFCI).

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONTR' SHALL PREPARE "AS-BUILT" SHOP DUGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NG TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPER & EQUIPMENT TYPE W/ RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DUGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

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