

SPECIFICATIONS & NOTES

- [illegible]

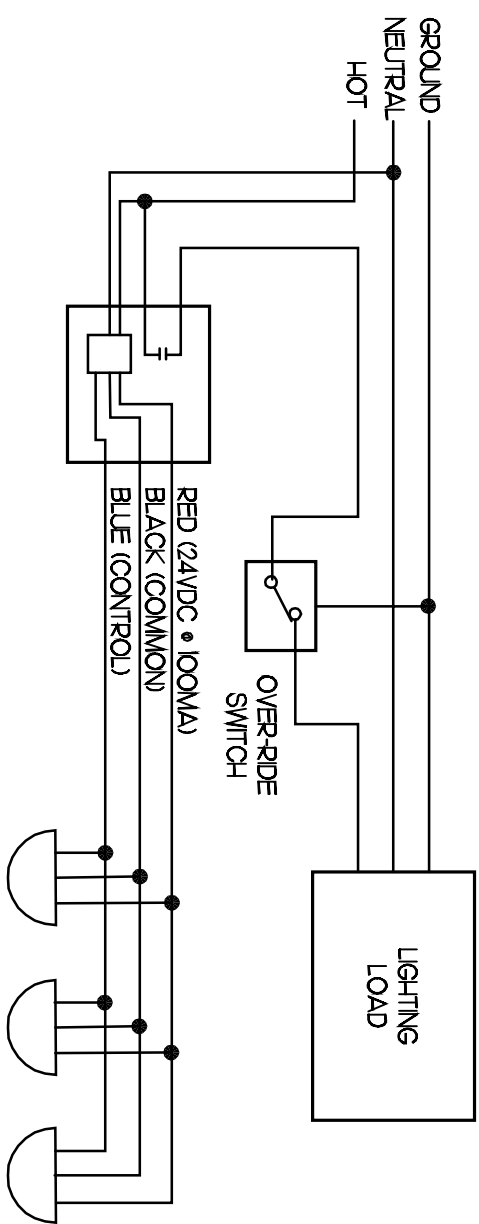
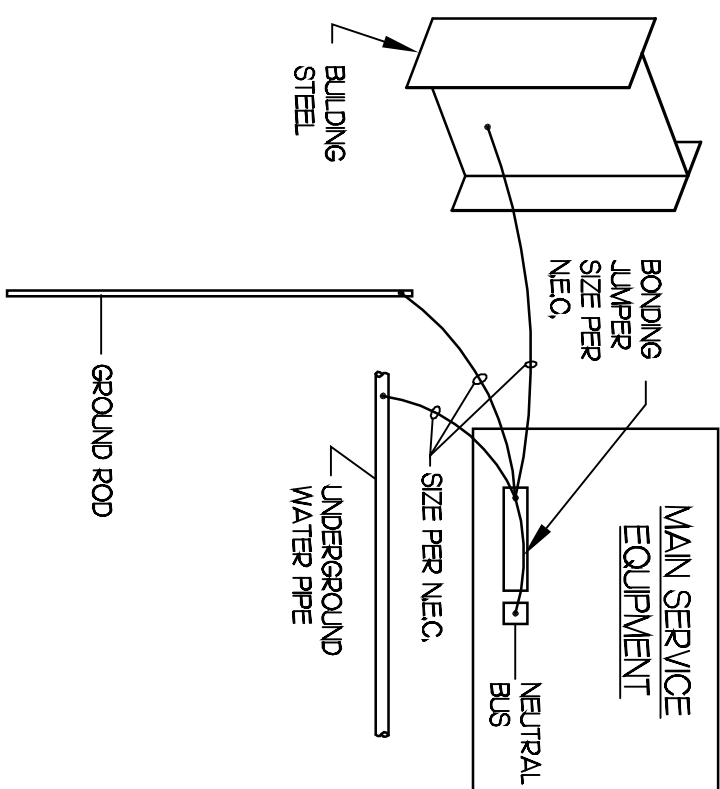
2. **COORDINATION:** THE CONTRACTOR SHALL MEET WORK SO AS TO CONFORM TO THE PROGRESS OF THE WORK OF THE OTHER TRADES AND COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING PERMITS, SOME OF WHICH REQUIRE DISCONNECT SWITCHES BY THE ELECTRICAL CONTRACTOR, ARE MET.
3. **INTERFERENCE:** IN THE EVENT THAT INTERFERENCES OR COMPLICATED SITUATIONS DEVELOP, THE CONTRACTOR SHALL DECIDE WHICH EQUIPMENT SHOULD BE RELOCATED AT NO COST TO THE OWNER REGARDLESS OF WHICH WAS FIRST INSTALLED.
4. **CUTTING AND PATCHING:** PROVIDE CUTTING AND PATCHING UNDER THE SUPERVISION OF THE PROJECT MANAGER. ALL CUTTING AND PATCHING SHALL BE DONE WITHIN ONE WEEK AFTER THE REQUIRED AREA IS WORKED ON.
5. **SUBMITTALS:** WITHIN TWENTY (20) DAYS AFTER AWARD OF CONTRACT, SUBMIT SIX (6) FOLLOWING ITEMS: PANELBOARDS, LIGHT FIXTURES, WIRING DIAGRAMS, DISCONNECT SWITCHES, FIRE ALARM SYSTEM (COMPLETE WITH PLAN SHOWING WIRING CONNECTION).
6. **TESTING:** UPON COMPLETION OF THE WORK, CONDUCT A THOROUGH TEST IN THE PRESENCE OF THE OWNER AND SHOW THE FINISHED SYSTEM TO BE IN PERFECT WORKING CONDITION.
7. **GUARANTEES:** GUARANTEE THAT ALL WORK EXECUTED UNDER THESE SPECIFICATIONS AND NOTED HEREFROM THE POINT OF ACCEPTANCE AND THE CONTRACTOR'S SIGNATURE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE AND THE CONTRACTOR'S SIGNATURE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DEFICIENCIES AND/OR DAMAGE TO THE WORKMANSHIP, MATERIALS, EQUIPMENT, REPAIR, REPLACE OR OTHERWISE TAKE GOOD UPON NOTIFICATION. ANY DEFECT BELONGING APPARENT DURING THE PERIOD, AT NO COST TO THE OWNER.
8. **TROUBLESHOOTING:** IN THE EVENT THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING AND REPAIRING EQUIPMENT AND MATERIALS NECESSARY FOR PROVIDING ELECTRICAL POWER WHERE NEEDED FOR THE CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH ALL OSHA REGULATIONS.
9. **SITE MAINTENANCE:** SUBMITTING A BID VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS, MAKE ADJUSTMENTS TO WORK AS REQUIRED BY THE ACTUAL CONDITIONS ENCOUNTERED.
10. **SERVICE ENHANCEMENT:** SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE SERVICE TO THE CLIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE UTILITY SERVICE, AS WELL AS THE REQUIRED TESTING EQUIPMENT ARE COORDINATED WITH AND IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL POWER COMPANY. IF THE REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR PRICE SHALL INCLUDE AN ADDITIONAL COST NECESSARY TO FULFILL THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CLIENT OF ANY CHANGES BEFORE PROCEEDING WITH WORK. ANY CHARGES BY THE UTILITY COMPANY FOR THE ELECTRICAL SERVICE TO THE FACILITY SHALL BE INCLUDED IN THE BID PRICE.

SPECIFICATIONS & NOTES

1. **RECEIVERS:** CLASS RC-1 THE DELAY FLAME FOR PROTECTING CIRCUIT BREAKERS, BUSBARS AND LIMITORS, CLASS RC-3 THE DELAY FLAME FOR PROTECTION OF MOTORS AND EXTERIOR BUSBARS, BUSBARS, FUSEBOX OR LOCAL WORK AID AT RATED VOLTAGE.
11. **OUTLET BOXES:** EXCEPT AS NOTED, BOXES SHALL BE STANDARD GALVANIZED OR SHEARDED AT LEAST 1/16 INCHES DEEP OR 45 NOTED IN PLANS, OF MINIMUM AT LEAST 1 1/8 INCH THICK, SIZED TO ACCOMMODATE DEVICES AND CONDUITS, AS PER NEC, ARTICLE 312, RECEPTACLES, AS WITHIN REQUIRED FOR CONNECTING EQUIPMENT, AND FOR SPECIAL RECEPTACLES IN TOILETS, WITHIN 6 FT. OF SINKS, IN KITCHENS, AND IN EXTERIOR LOCATIONS SHALL BE COVER TYPE, EXTERIOR RECEPTACLES SHALL HAVE WEATHERPROOF AND GASETIED COVERS. ALL RECEPTACLES IN GUEST ROOMS SHALL BE WEATHERPROOF.
12. **PANEL BOARD/PANELBOARDS:** SHALL BE A DEAD-FRONT SAFETY TYPE EQUIPPED WITH THERMAL MAGNETIC CIRCUIT BREAKERS WITH FRAME AND TRIP RATING AS SPECIFIED IN SCHEDULE. PANELBOARDS SHALL HAVE COMMON TRIP ON ALL TRIPPOLE BREAKERS. CONNECTION TO THE BUSBARS SHALL BE BOLT ON. TERMINALS TO BE USED AS CONDUITORS TO THE PANELBOARD MAINS AND NEUTRAL SHALL BE 1/2" LISTED AS SUITABLE FOR THE TYPE OF CONDUITOR SPECIFIED. TERMINALS FOR BRANCH CIRCUIT CONDUITORS SPECIFIED. PANELBOARDS NOT SHOWN TO BE RATED FOR SERVICE ENTRANCE SHALL BE EQUIPPED WITH AN HINGED FRONT WITH THE DOORS EQUIPPED WITH FLUSH DOUGHER STEEL, OR TUBULAR, IN THE TOP LOCKS WITH CATCHES AND LATCHES IN FRONT OF THE DOOR. ALL PANELBOARD LOCKS SHALL BE KEPT ALIKE CIRCUIT DISCONNECT PLATE AND CAPPED WITH CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. PANELBOARDS SHALL BE RATED FOR USE AS SERVICE ENTRANCE EQUIPMENT UNLESS SPECIFIED BY NEC. FOR ALL FLUSH INSTALLED ABOVE CEILING SPACE PANELBOARDS SHALL BE BY GENERAL ELECTRIC SQUARE D OR CUTLER-HAMMER. LOAD CENTERS SHALL NOT BE USED UNLESS INDICATED IN PLANS.
13. **SAFETY:** ALL WIRING AND DISCONNECT SWITCHES SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE DISCONNECTS ADJUNCT TO EQUIPMENT ON SUITABLE STRUCTURE. A DISCONNECT SHALL NOT BE REQUIRED OTHER THAN THE CB WHICH PROVIDES POWER TO EQUIPMENT WHEN THE EQUIPMENT IS WITHIN SIGHT AND NOT GREATER THAN 10 FEET FROM CB. WIRING DISCONNECT SIZE FROM EQUIPMENT NAMEPLATE DATA. TROUBLE DISCONNECTS AS REQUIRED BY NEC 1002.
14. **GROUNDING:** EQUIPMENT SHALL BE GROUNDED AND BOUNDED IN ACCORDANCE WITH LOCAL REGULATION AND NATIONAL ELECTRICAL CODE INSTALL A GREEN EQUIPMENT GROUNDED CONDUCTOR IN ALL RACEWAYS.
15. **GROUNDING OF CONDUIT/CABLE OR CODE CONDUCTORS:** IN ACCORDANCE WITH THE NEC AND WITH STANDARD AND ACCEPTED TRADE PRACTICES.
16. **GENERAL BOX MOUNTING HEIGHTS:** UNLESS OTHERWISE NOTED, WALL SWITCHES, RECEPTACLES, 48" AFF. RECEPTACLES, 48" AFF. TELEPHONE WALL OUTLETS, 48" AFF. TELEPHONE 48" AFF.
17. **OUTLETS AND CONDUIT FOR OTHER TRADES:** CONDUITS CONCERNED AT SOURCE, FOR COORDINATE REQUIREMENTS WITH EACH CONTRACTOR. WHETHER SHOWN ON PLANS OR NOT, PROVIDE A 1/2" GF RECEPTACLE LOCATED WITHIN 25" OF ALL EXTERIOR HVAC EQUIPMENT.
18. **WEATHER:** THE WORD "WEATHER" WHEN USED IN PLANS SHALL MEAN TO VERIFY LOCATION WITH WEATHER REQUIREMENTS BEFORE CURILING AND SHALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH NEC.
19. **NOT USED:** - DELETED
20. **DATA CABLE TV, TELEPHONE:** FOR CABLE TV, OUTLETS, DATA OUTLETS AND TELEPHONE OUTLETS THE WIRING, JACKS, AND FACEPLATES WILL BE PROVIDED BY OTHERS UNLESS OTHERWISE NOTED. POINT INDIVIDUAL DATA OUTLETS, TELEPHONE OUTLETS AND CABLE OUTLETS AT EXACTLY THE SAME HEIGHT AS RECEPTACLES UNLESS NOTED OTHERWISE.
21. **NEC, NEC:** REFERS TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE WHICH HAS BEEN ADOPTED INTO LOCAL BUILDING CODE BY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
22. **EXTERIOR ENCLOSURES:** ALL EXTERIOR ENCLOSURES OR ENCLOSURES EXPOSED TO MOST CONDITIONS SHALL BE RATED NEMA 3R OR RATED FOR USE IN DAMP OR WET CONDITIONS AS EACH CASE REQUIRES.
23. **UNDERGROUND INSTALLATION:** CONDUIT IN INSTALLED BELOW GRADE. THE MINIMUM BURIAL DEPTH SHALL BE 24" UNLESS NOTED UNDER BUILDING PLANS. WHERE THERE IS NO MINIMUM BURIAL DEPTH, WHERE RIGID CONDUIT IS INSTALLED BELOW GRADE COAT CONDUIT AND CONDUITS WITH 1/2" COATS OF ASPHALT/PE. UNDERGROUND INSTALLED AT DEPTH AS DIRECTED BY POWER COMPANY. VOID ALL EXISTING UTILITIES AND EXISTING UTILITIES DEREGATED SHALL BE REPAIRED AT CONTRACTORS EXPENSE AND AS DIRECTED BY ARCHITECT. RESUME ABOVE PAVING TO MATCH EXISTING.
24. **IDENTIFICATION:** RECEPTACLES, UNLESS OTHERWISE SPECIFIED, SHALL BE INSTALLED WITH 28 HIGH WHITE LETTERS ON BACKS. ON THE FRONT OF ALL DISCONNECT SWITCHES OR ENCLOSURES, PANELBOARDS, CONTACTORS, TRANSFORMERS, TRANSIENT VOLTAGE SURGE SUPPRESSORS, AND STARTERS.
25. **CLEANLINESS:** THE PROGRESS OF WORK, KEEP THE OWNER'S PREMISE IN A NEAT AND ORDERLY CONDITION FREE FROM ACCUMULATION OF DEBRIS, RESULTING FROM THIS WORK, AT THE COMPLETION OF THE WORK, REMOVE ALL MATERIAL, SCRAP, ETC. NOT A PART OF THIS CONTRACT.
26. **OPERATING & MAINTENANCE INSTRUCTIONS:** 0.5% TO THE ARCHITECT ONE SET OF ALL EQUIPMENT, MATERIALS AND MAINTENANCE DATA, EXPLAN AND DEMONSTRATE THE ELECTRICAL SYSTEMS TO OWNER AND/OR OWNER'S REPRESENTATIVE.

ELECTRICAL SYSTEM GROUNDING & BONDING

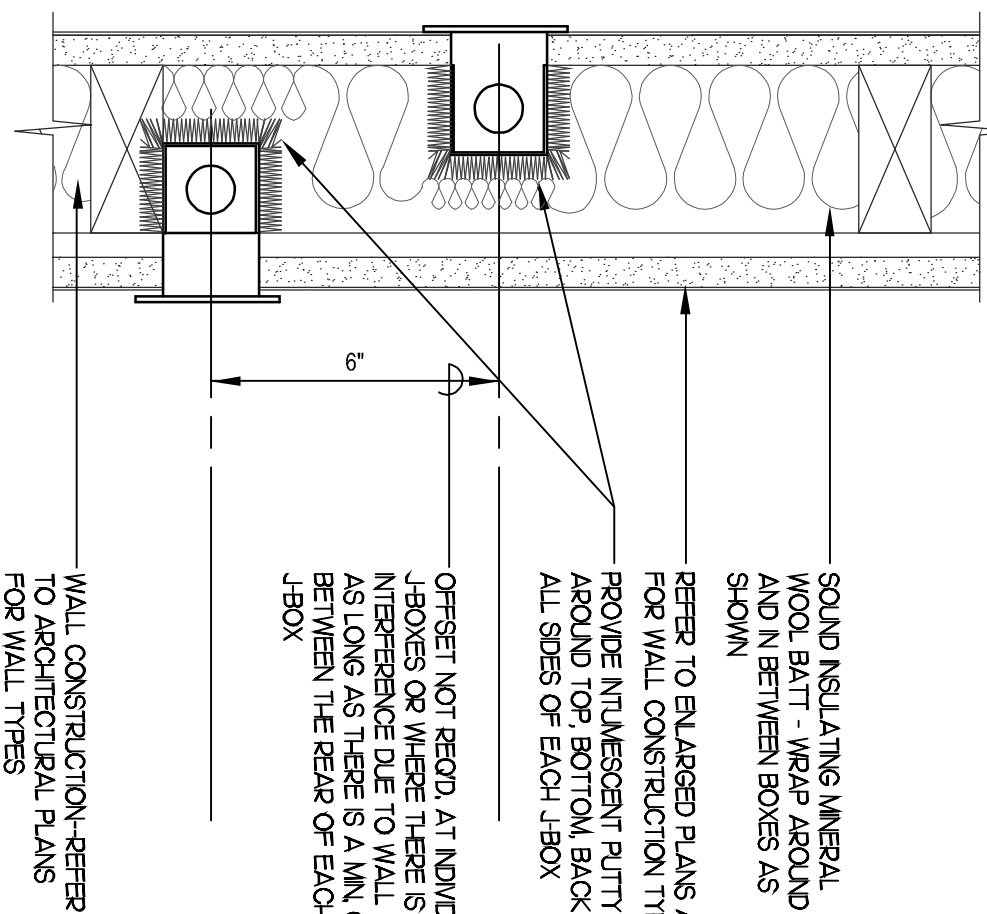
1. THE GROUNDING ELECTRODE CONDUCTOR AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250.50 OF THE NEC AND AS SHOWN ON THE ADJACENT SKECH.
2. THE MAIN BONDING LAYER AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250.02 OF THE NEC AND AS SHOWN ON THE ADJACENT SKECH.
3. EQUIPMENT GROUNDING CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS MAY BE A COPPER OR CORROSION RESISTANT CONDUCTOR, BARE METAL CONDUIT, OR NEUTRALIZED METAL CONDUIT, PROVIDED THAT THE CONDUCTOR IS PROTECTED AGAINST MECHANICAL DAMAGE.
4. WHERE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IT SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250.02 OF THE NEC, AND THE FOLLOWING TABLE
- | LAYER SETTING OF OVERCURRENT DEVICE AHEAD OF CIRCUIT | MINIMUM COPPER WIRE SIZE |
|--|--------------------------|
| 5 | 14 |
| 20 | 12 |
| 30 | 10 |
| 40 | 8 |
| 50 | 6 |
| 100 | 4 |
| 200 | 3 |
| 300 | 2 |
| 400 | 1 |
| 500 | 1 |
| 600 | 2/0 |
| 800 | 2/0 |
| 1000 | 3/0 |
| 1200 | 3/0 |
| 1600 | 4/0 |



ELECTRICAL SYSTEM GROUNDING AND BONDING

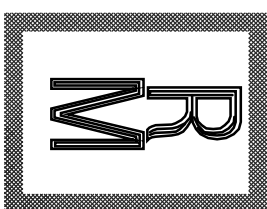
TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

SCHEMATIC -- NO SCALE



PLAN DETAIL AT TYPICAL J-BOX OFFSET

NO SCALE



Richard Molenaar

A R C H I T E C T

PROJECT NAME



W Mane Street West Monroe, Louisiana

ELECTRICAL DETAILS & SPECIFICATIONS

PROJECT NO.	LATEST REVISION:

PROJ#	LRD
-------	-----

DRAWN BY: _____ CHECKED BY: _____
SHEET 111/128

SMI	SMI	SMI
DICTION. DI.	COLLECTED DI.	COLLECTED DI.

DATE _____

E404