



2801 Technology Forest Blvd.
The Woodlands, TX 77381

Gensler

909 Fannin St.
Suite 200
Houston, TX 77010
United States

Tel 713.844.0000
Fax 713.844.0001

*DBR

DBR Inc.
9990 Richmond Ave.
South Building, Suite 300
Houston, TX 77042
Tel 713.914.0888
Fax www.dbrinc.com



4B Technology
390 Glenborough Dr.
Houston, TX 77067
Tel 832.249.9379

Date	Description
05-12-24	ISSUE FOR PERMIT, PRICING, AND CONSTRUCTION

Seal / Signature

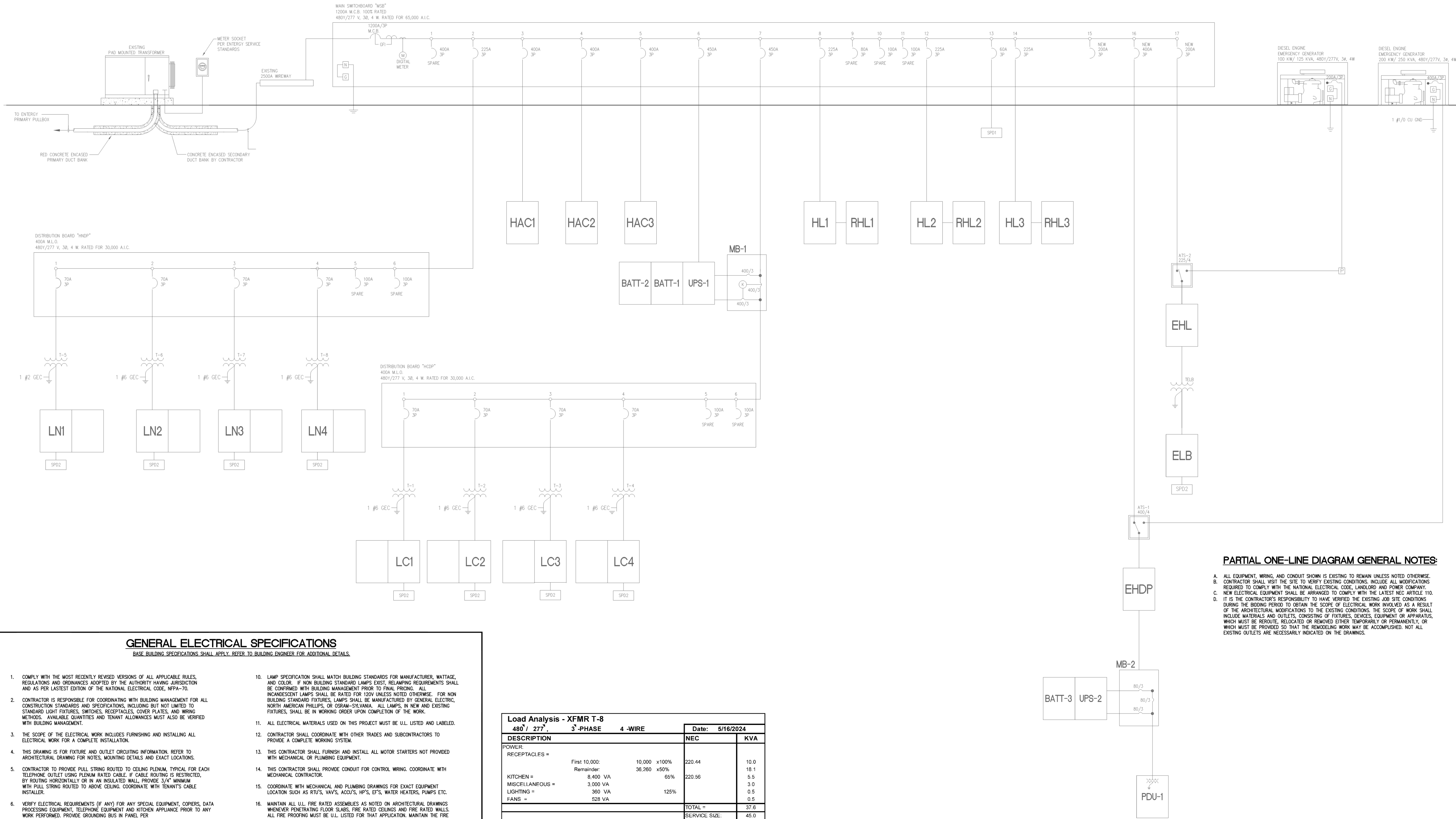


Project Name
Woodlands Township - Office Renovation
Project Number
02.9171.000
Description
ELECTRICAL ONE-LINE DIAGRAM

Scale

E4.01

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GENERAL ELECTRICAL SPECIFICATIONS

BASE BUILDING SPECIFICATIONS SHALL APPLY. REFER TO BUILDING ENGINEER FOR ADDITIONAL DETAILS.

- COMPLY WITH THE MOST RECENTLY REVISED VERSIONS OF ALL APPLICABLE RULES, REGULATIONS AND ORDINANCES ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND AS PER LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA-70.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH BUILDING MANAGEMENT FOR ALL CONSTRUCTION STANDARDS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO STANDARD LIGHT FIXTURES, SWITCHES, RECEPTACLES, COVER PLATES, AND WIRING METHODS. AVAILABLE QUANTITIES AND TENANT ALLOWANCES MUST ALSO BE VERIFIED WITH BUILDING MANAGEMENT.
- THE SCOPE OF THE ELECTRICAL WORK INCLUDES FINISHING AND INSTALLING ALL ELECTRICAL WORK FOR A COMPLETE INSTALLATION.
- THIS DRAWING IS FOR FUTURE AND OUTLET CIRCUITING INFORMATION. REFER TO ARCHITECTURAL DRAWING FOR NOTES, MOUNTING DETAILS AND EXACT LOCATIONS.
- CONTRACTOR TO PROVIDE PULL STRING ROUTED TO CEILING PLenum, TYPICAL FOR EACH TELEPHONE OUTLET USING PLENUM RATED CABLE IF CABLE ROUTING IS RESTRICTED, BY ROUTING HORIZONTALLY OR IN AN INSULATED WALL, PROVIDE 3/4" MINIMUM WITH PULL STRING ROUTED TO ABOVE CEILING. COORDINATE WITH TENANT'S CABLE INSTALLER.
- VERIFY ELECTRICAL REQUIREMENTS (IF ANY) FOR ANY SPECIAL EQUIPMENT, COPIERS, DATA PROCESSING EQUIPMENT, TELEPHONE EQUIPMENT AND KITCHEN APPLIANCE PRIOR TO ANY WORK PERFORMED. PROVIDE GROUNDING BUS IN PANEL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ALL RECEPTACLES TO BE MOUNTED A MINIMUM OF 18" A.F.F. AND ALL SWITCHES SHALL BE A MAXIMUM OF 42" A.F.F. UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE TO THE CENTERLINE. NEW DEVICE TYPES SHALL MATCH ORIGINAL BASE BUILDING STANDARDS WITH COLOR SELECTION BY ARCHITECT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE EIGHT SETS OF SUBMITTALS ON ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, ELECTRICAL DEVICES, DIMMERS, RACKWAYS, FIRE ALARM DEVICES ETC.
- ALL WIRING SHALL BE COPPER. ALUMINUM WIRING IS NOT ACCEPTABLE. MINIMUM WIRE SIZE IS #12 AWG. CONDUCTORS SIZED SHALL BE STRANDED. INSULATION SHALL BE "UL" TYPE THW OR THWN/THHN. METAL GLAD CLAD MAY BE USED FOR BRANCH CIRCUITS IF APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- LAMP SPECIFICATION SHALL MATCH BUILDING STANDARDS FOR MANUFACTURER, WATTAGE, AND COLOR. IF NON-BUILDING STANDARD LAMPS EXIST, RELAMPING REQUIREMENTS SHALL BE CONFIRMED WITH BUILDING MANAGEMENT PRIOR TO FINAL PRICING. ALL INCANDESCENT LAMPS SHALL BE RATED FOR 120V UNLESS NOTED OTHERWISE. FOR NON-BUILDING STANDARD FIXTURES, LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS, OR OSRAM-SYLVANIA. ALL LAMPS IN NEW AND EXISTING FIXTURES, SHALL BE IN WORKING ORDER UPON COMPLETION OF THE WORK.
- ALL ELECTRICAL MATERIALS USED ON THIS PROJECT MUST BE U.L. LISTED AND LABELED.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND SUBCONTRACTORS TO PROVIDE A COMPLETE WORKING SYSTEM.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL MOTOR STARTERS NOT PROVIDED WITH MECHANICAL OR PLUMBING EQUIPMENT.
- THIS CONTRACTOR SHALL PROVIDE CONDUIT FOR CONTROL WIRING. COORDINATE WITH MECHANICAL CONTRACTOR.
- COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATION SUCH AS RTU'S, VAV'S, ACCU'S, HP'S, BT'S, WATER HEATERS, PUMPS ETC.
- MAINTAIN ALL U.L. FIRE RATED ASSEMBLIES AS NOTED ON ARCHITECTURAL DRAWINGS WHENEVER PENETRATING FLOOR SLABS, FIRE RATED CEILING AND FIRE RATED WALLS. ALL FIRE PROOFING MUST BE U.L. LISTED FOR THAT APPLICATION. MAINTAIN THE FIRE RESISTANCE RATING AS REQUIRED PER ARTICLE N.E.C.
- PROVIDE UPDATED, TYPED DIRECTORY FOR EACH PANEL BOARD, DESIGNATING NEW CIRCUITS AND SUITE BEING SERVED.
- WHEN A LIFE SAFETY SYSTEM EXISTS, MAINTAIN THIS EXISTING SYSTEM IN ACCORDANCE WITH THE LOCAL CODES AND N.F.P.A., COORDINATING WITH BUILDING MANAGEMENT FOR APPROVED LIFE SAFETY CONTRACTOR. BUILDING CORRIDORS MUST BE PROTECTED WITH SMOKE DETECTORS. AUDIBLE DEVICES MUST BE DISTINCT THROUGHOUT THIS TENANT SPACE. VISUAL ALARMS MUST PROVIDE COVERAGE PER AMERICANS WITH DISABILITIES ACT. THIS CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THAT EXISTING SYSTEM IS ADEQUATE FOR ADDITIONS AND MODIFICATIONS REQUIRED IN THESE PLANS. REFER TO SEPARATE FIRE ALARM REMODELING NOTES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO VISIT THE SITE OF THE PROPOSED CONSTRUCTION IN ORDER TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR WORK OR ITEMS OBTAINED FROM HIS ORIGINAL PROPOSAL DUE TO HIS FAILURE TO INFORM HIMSELF REGARDING SUCH MATTERS AFFECTING THE PERFORMANCE OF THE WORK IN THIS CONTRACT OR NECESSARY FOR THE INSTALLATION AND COMPLETION OF THE WORK INCLUDED HEREIN.

Load Analysis - XFMR T-8				Date: 5/16/2024	
480V / 277V	3-PHASE	4-WIRE			
DESCRIPTION				NEC	KVA
POWER:					
RECEPTACLES =					
	First 10,000:	10,000	x100%	220.44	10.0
	Remainder:	36,260	x50%		18.1
KITCHEN =				220.56	5.5
MISCELLANEOUS =					3.0
LIGHTING =					0.5
FANS =					0.5
				TOTAL =	37.6
				SERVICE SIZE:	45.0
				SPARE AMPACITY:	7.4

GENERAL ELECTRICAL REMODELING NOTES:

- WHEN OUTLETS ARE ABANDONED, WIRE MUST BE PULLED OUT OF CONDUIT BACK TO THE NEAREST REMAINING BOX OR CABINET AND EXPOSED CONDUIT THAT HAS BEEN ABANDONED, MUST BE REMOVED.
- REESTABLISH SERVICE TO ALL OUTLETS THAT MAY HAVE BEEN INTERRUPTED BECAUSE OF REMODELING WORK.
- PROVIDE ALL APPURTENANCES REQUIRED TO REROUT, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED BOX OF ITS RATING.
- REMOVE ALL OUTLETS AND WIRING ASSOCIATED WITH ALL EQUIPMENT BEING REMOVED, INCLUDING MECHANICAL AND PLUMBING EQUIPMENT.



9990 Richmond Avenue
South Building, Suite 300
Houston, Texas 77042
713.914.0888 / 713.914.0888 f
TBPE Firm Registration No. 2234

DBR Project Number 230237.000

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