GENERAL NOTES

- E. LOCAL RESTRICTIONS AND PROVISIONS OF THE 'COMMUNITY' RELATED TO CONSTRUCTION AT THE SITE.

- GENERAL REQUIREMENTS:

 A. ANY ALTERATIONS TO THE WORK SHALL BE TRANSMITTED TO THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER. ALTERATIONS SHALL NOT BE INCORPORATED INTO THE WORK UNTIL APPROVED BY THE ARCHITECT.

 B. SUBSTITUTIONS SHALL BE TRANSMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION. REFER TO THE PROJECT MANUAL FOR SUBSTITUTION PROCEDURES.

 C. THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER SHALL BE NOTIFIED OF ANY CONDITIONS ENCOUNTERED WHICH ARE UNEXPECTED OR PRODUCE A CONFLICT WITH THE WORK DETINED IN THE DOCUMENTS. DO NOT PROCEED WITH THE WORK UNTIL APPROVED BY THE ARCHITECT.

 D. AT THE EARCHITECT THROUGH THE CONSTRUCTION MANAGER FOR REVIEW.

 E. REVIEW THE PROJECT MANUAL FOR PRODUCTS WHICH REQUIRE A SUBMITTAL RESPONSE. ALLOW APPOINTED THE OASSURE THE SUBMITTAL IS REVIEWED AND APPROVED PRIOR TO PURCHASE.

- REVIEW THE PROJECT MANUAL FOR PRODUCTS WHICH REQUIRE A SUBMITIAL RESPONSE. ALLOW ADEQUATE TIME TO ASSURE THE SUBMITIAL IS REVIEWED AND APPROVED PRIOR TO PURCHASE. REFER TO THE PROJECT MANUAL FOR PROCEDURAL INFORMATION.

 REVIEW AND COMPLY WITH TESTING AND BALANCING PROVISIONS DEFINED IN THE PROJECT MANUAL AND AS INDICATED ON THE DRAWINGS. ASSURE AT TIME OF SUBSTANTIAL COMPLETION, ALL SYSTEMS ARE SET AND WORKING PROPERLY. FORWARD ALL TEST REPORTS TO THE ARCHITECT THROUGH THE CONSTRUCTION LAMBAGED.
- THE OWNER MILL RETAIN SEPERATE CONTRACTORS TO PERFORM SOME ACTIVITIES AS DEFINED ON THE DRAMINGS AND IN THE PROJECT MANUAL REFER TO THE PROJECT MANUAL FOR PROCEDURES RELATING TO THESE ACTIVITIES.
- REFER TO THE PROJECT MANUAL REGARDING PROCEDURES FOR PRODUCTS WHICH ARE INDICATED TO
- REFER TO THE PROJECT MANUEL RESISTANCE.

 BE OWNER FURNISHED AND CONTRACTOR INSTALLED.

 INCORPORATE INTO THE WORK FOLLOWING SUBSTANTIAL COMPLETION SERVICES TO THE OWNER FOR ASSISTANCE IN STORE SETUP CONSISTING OF UNLOADING, TRASH REMOVAL, AND MINOR INSTALLATION

- PERMIT SUBMISSION FOR THE MASTER PERMIT BEEN APPLIED FOR BY THE ARCHITECT.

 THE CONTRACTOR SHALL COORDINATE WITH THE JURISDICTION TO OBTAIN THE PERMIT PREVIOUSLY
- SUBMITTED.
 A SIGNAGE PERMIT WILL BE OBTAINED SEPERATELY BY THE OWNER RETAINED SIGN VENDOR.
 THE CONTRACTOR SHALL ASSURE ALL ADDITIONAL PERMITS AS MAY BE REQUIRED FOR THE WORK
 ARE APPLIED FOR AND OBTAINED IN ADEQUATE TIME TO NOT ALTER THE PROJECT SCHEDULE.
 ADDITIONAL PERMITS MAY INCLUDE BUT ARE NOT LIMITED TO:

 1. FIRE SPRINKLED SYSTEMS
 2. FIRE ALARM SYSTEMS
 3. CONTROL WEIGHT.

- 6. PLUMBING
 7. WORK PERMITS FOR CONSTRUCTION RELATED ACTMTIES.
 TRANSMIT TO THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER ANY COMMENTS OR CONDITIONS
 OF THE PERMIT WHEN ISSUED INCLUDING LOCAL RESTRICTIONS.
 WHERE DEFERRED PERMIT ITEMS ARE INCORPORATED, THE CONTRACTOR SHALL COORDINATE PERMIT
 REVIEW ACTMTES WITH THE ARCHITECT, CONDITRUCTION MANAGER, JURISDICTION, AND SUPPLIER TO
 ASSURE THE PERMITTING PROCESS IS COMPLETE.

7.2

- IMMEDIATELY INFORM THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER OF ANY APPROVALS,
- IMMEDIALLY INFORM THE ARCHITECT THROUGH THE CONTROLLOR OF THE CONT

- CONDITIONS PERTAINING TO THE DRAWINGS:

 A. DO NOT SCALE DRAWINGS— USE DIMENSIONS ONLY. IF LAYOUT CAN NOT BE DETERMINED FROM THE
 DRAWINGS OR EXISTING CONDITION DIFFER FROM THOSE EXPECTED, REQUEST A CLARIFICATION FROM
 THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER.
- JENSIONS WHERE SHOWN ARE NORMALLY GIVEN:
- DINENSIONS WHERE SHOWN AVE. TOOLSON.

 1. TO COLUMN CENTER LINE

 2. TO FINISH FACE OF CMU OR GWB.
 DINENSIONS SHOWN ON LARGER SCALE BRAWINGS GOVERN.
 ELEVATIONS AND LEVELS: ALL NUMERICAL ELEVATIONS ARE TO TOP OF CONCRETE SLAB, UNLESS
- NOTED UTILIZATIONS.
 "ALIGN" AS INDICATED ON THE DRAWING SHALL BE UNDERSTOOD TO MEAN TO ALIGN THE FINISH MATERIAL OF THE WALLS OR COLUMNS INDICATED.

WORK SHALL INCORPORATE THE FOLLOWING:

- SHALL INCORPORATE THE FOLLOWING:
 IDENTIFICATION AND LABELING PROVISIONS ARE INDICATED ON THE DRAWINGS AND CONTAINED WITHIN
 THE PROJECT MANUAL COORDINATE ALL IDENTIFICATION AND LABELING REQUIREMENTS WITH THE
 VARIOUS DISCIPLINES AND GOVERNING AUTHORITIES.
 ACCESS DOORS ARE DEFINED IN THE PROJECT MANUAL PROVIDE ACCESS DOORS AS INDICATED ON
 THE DRAWINGS OR AS REQUIRED TO ACCESS EQUIPMENT AND CONTRALS INSTALLED BY OTHER
 DISCIPLINES. WHERE EXISTING CONTROLS OR EQUIPMENT IS ENCOUNTERED, ASSURE ACCESS IS

- MAINTAINED.

 PROVIDE ONE TYPE 5E-2A-10BC FIRE EXTINGUISHERS PER 3,000 SF AND NOT MORE THAN 75 FT OF TRAVEL DISTANCE. MINIMUM OF TWO.

 EXT ILLUMINATION IS INDICATED ON THE DRAWINGS. PRIOR TO FINAL INSPECTION, TEST AND REVIEW THE EMERGENCY ILLUMINATION SCHEME AND ASSURE ILLUMINATION IS NOT BLOCKED OR OTHERWISE ALTERED. ASSURE A MINIMUM ILLUMINATION LEVEL OF ONE FOOT CANDLE IS ACHIEVED IN ALL AREAS: THE BUILDING IS SERVED BY A AUTOMATIC SPRINKLER SYSTEM. MODIFY OR REPLACE THE FIRE PROTECTION SYSTEM TO ACCOMMODATE THE CONFIGURATION INDICATED ON THE PLANS, RETAIN REQUESTED BY THE LANDLORD TO PERFORM THE WORK.

 COORDINATE ALL PERMITS ACCOUNTED. COORDINATE ALL PERMITS ACTIVITIES AS DEFINED UNDER 'PERMITTING'. SPRINKLER HEADS MOUNTED
- IN HARD (MR) CEUNES ALL PERMITS AS DEFINED WHICH WHITE CAPS.

 WHERE THE BUILDING IS SERVED BY A CENTRAL FIRE ALARM SYSTEM, MODIFY OR REPLACE THE

 SYSTEM TO ACCOMMODATE THE CONFIGURATION INDICATED ON THE PLANS, RETAIN REQUIRED

 SUB-CONTRACTORS WHEN REQUESTED BY THE LANDLORD TO PERFORM THE WORK. COORDINATE ALL
- SUB-CONTRACTORS WHEN REQUESTED BY THE ANDLORD TO PERFORM THE WORLD CONTRIBUTE AS DESIRED UNDER "PERMITTING".

 ASSURE ALL COMPONENTS ARE PROPERLY SECURED AS DEFINED BY THE PROJECT MANUAL, LOCAL CODE PROMISIONS, OR INDUSTRY STANDARDS RELATING TO THE APPROPRIATE DISCIPLINE, THE MORE STRINGERN STANDARD SHALL APPLY. WHERE COMPONENTS BRIDGE A EXPANSION JOINT, INSTALL FLEXABLE COMPONENTS TO NOT INTERFERE WITH THE JOINT.

- THE GENERAL CONTRACTOR IS TO READ THROUGH AND FAMILIARIZE THEMSELVES WITH, AND COMPLY WITH REQUIREMENTS IN THE ANDLORD'S TENANT DESIGN HANDBOOK BEFORE PLACING HIS BID. THE GENERAL CONTRACTOR IS TO SUBMIT A COPY OF THE FOLLOWING ITEMS TO THE LANDLORD
- A QUALIFICATION STATEMENT
- CERTIFICATES OF INSURANCE AS OUTLINED IN THE TENANT CONSTRUCTION MANUAL (SEE SPECIFICATION MANUAL)
- CONSTRUCTION SCHEDULE.
- UST OF SUBCONTRACTORS AND CONTACTS.
 COPY OF THE BUILDING PERMIT.
 CURRENT CONTRACTORS LICENSE FOR LOCAL JURISDICTION
- GENERAL CONTRACTOR MUST HAVE PRE-CONSTRUCTION MEETING WITH THE LANDLORD'S OPERATION FR PRIOR TO START OF CONSTRUCTION.
- MANAGER PRIOR TO START OF CONSTRUCTION.

 A COPY OF THE LANDLORD APPROVED DRAWINGS ARE TO BE ON THE JOB SITE AT ALL TIMES.
- FOR ADDITIONAL REQUIREMENTS, REFER TO THE LANDLORD'S TENANT DESIGN HANDBOOK AND



Drawings for.

GATEWAY SHOPPING CENTER WOODINVILLE, WA

Brav 206 571-5250

BUILDING DATA CODE INFORMATION LANDLORD'S ADDRESS CONSTRUCTION TYPE: V-B, FULLY SPRINGLERED NAME TRE EQUITES PA HOODHORKS, LLC STREET ADDRESS 2620 SECOND AVENUE GROUPS M (MERCANTILE TJ.) CITY, STATE, ZIP SEATTLE HA 48421 % FEET HAX RETAIL FOR THE SALE OF CLOTHING TEN COORDINATOR TIM RUSSELL TRF EQUITIES PA HOODHORKS, LLC COMPANY RETAIL (204/30) DRESSING ROOMS (128/0) ADDRESS 2620 SECOND AVENUE TOIL FT ROOMS (61/0) SEATTLE, WA 98121 (206) 724-0300 TENANT'S ADDRESS 6300 MERRILL CREEK PARKHAY, SUITE B CITY, STATE, ZIP EVERETT, HA 48208 GREG KIMMEL CONTACT (425) 551-546 TELEPHONE SQUARE FOOTAGE SITE ADDRESS RETAIL SALES 126 SF DRESSING ROOMS HALL HAVE GATERAY SHOPPING CENTER 46 SF TOLET ROOM STREET ADDRESS ITTOS HOTH AVE. N.E. 245年 WOODINGLE WA 98012 STORAGENALL 2042 SF LANDLORD REQUIRED VENDORS/CONTRACTORS

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	A-12	FINISH, LIGHTING & DOOR SCHEDULE, DISABLED ACCESS D
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STORE #408

GATEWAY SHOPPING CTR 17705 140TH AVE. N.E. WOODINVILLE, WA 98072 SPACE #A-18

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Jan C. Russell, Aia architecture-planning 2860 ROSCOMARE ROAD Los angeles, ca 90077 Telephone (310) 476-2170

EMAIL: jcralaeroadrunner.com www.russellarchitects.com

ARCHITECTURAL SYMBOLS:





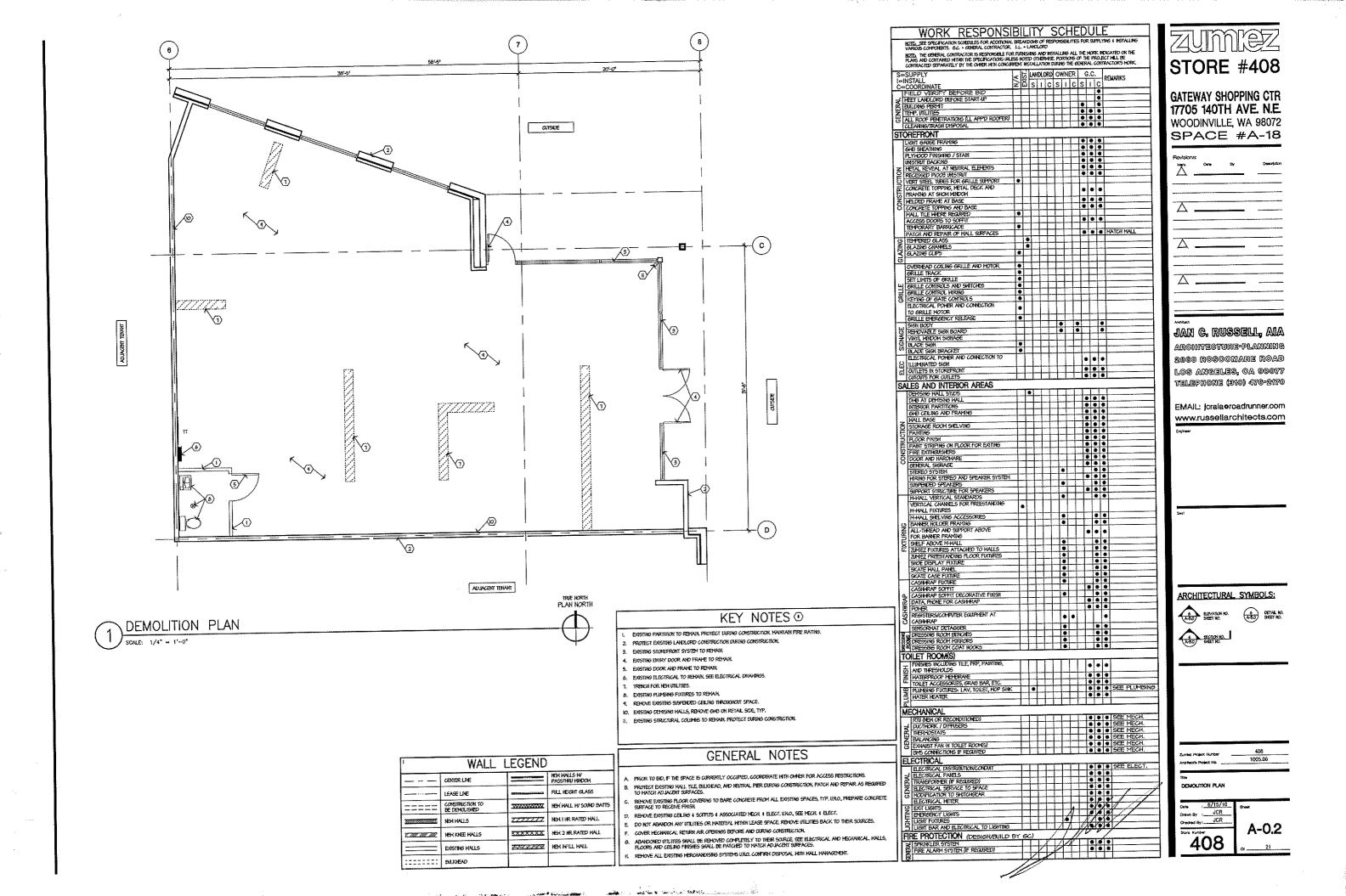
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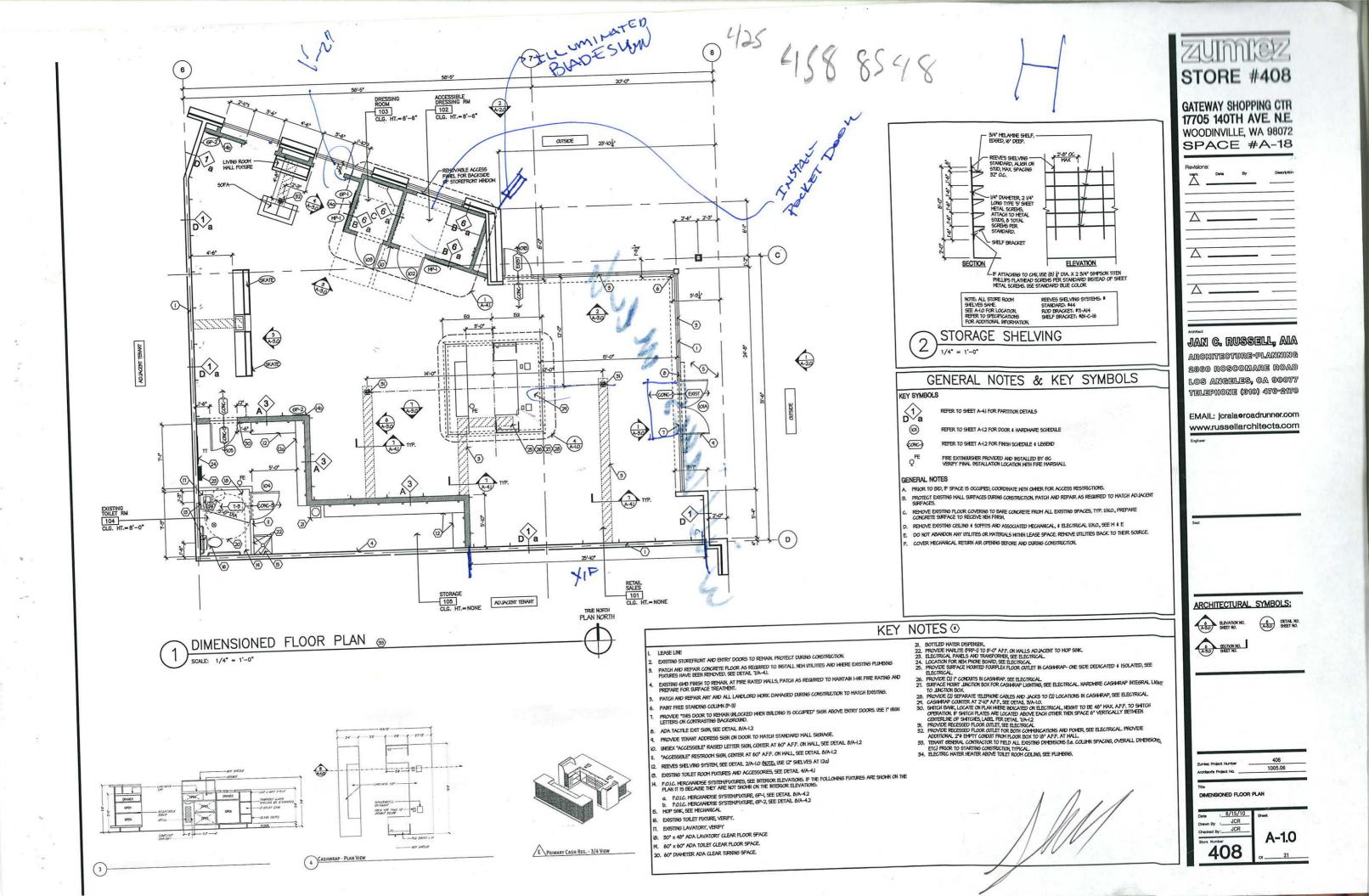
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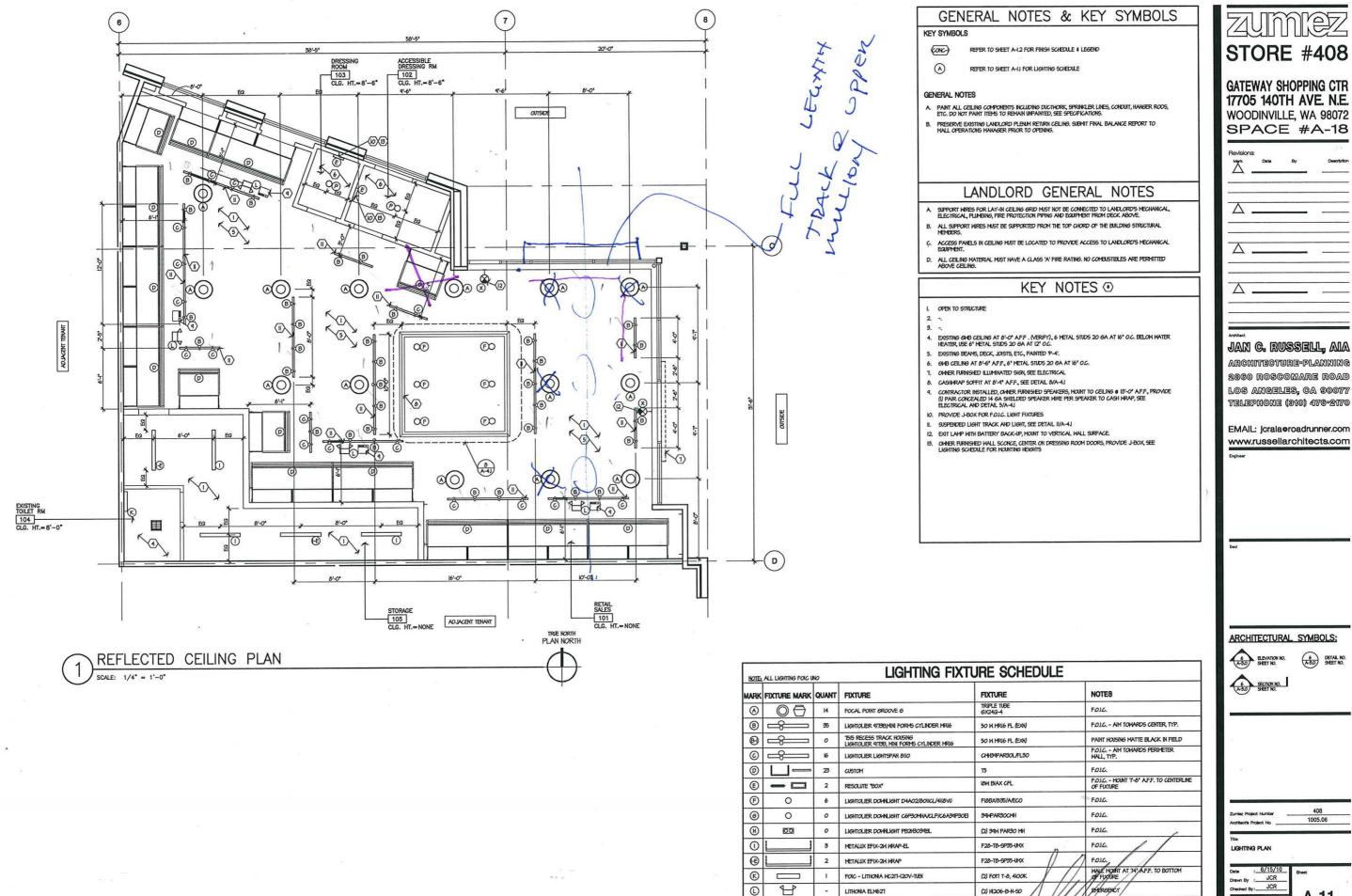
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Jan C. Russell, Aia architecture-planning

EMAIL: jcrala@roadrunner.com www.russellarchitects.com

ARCHITECTURAL SYMBOLS:





LIGHTING PLAN

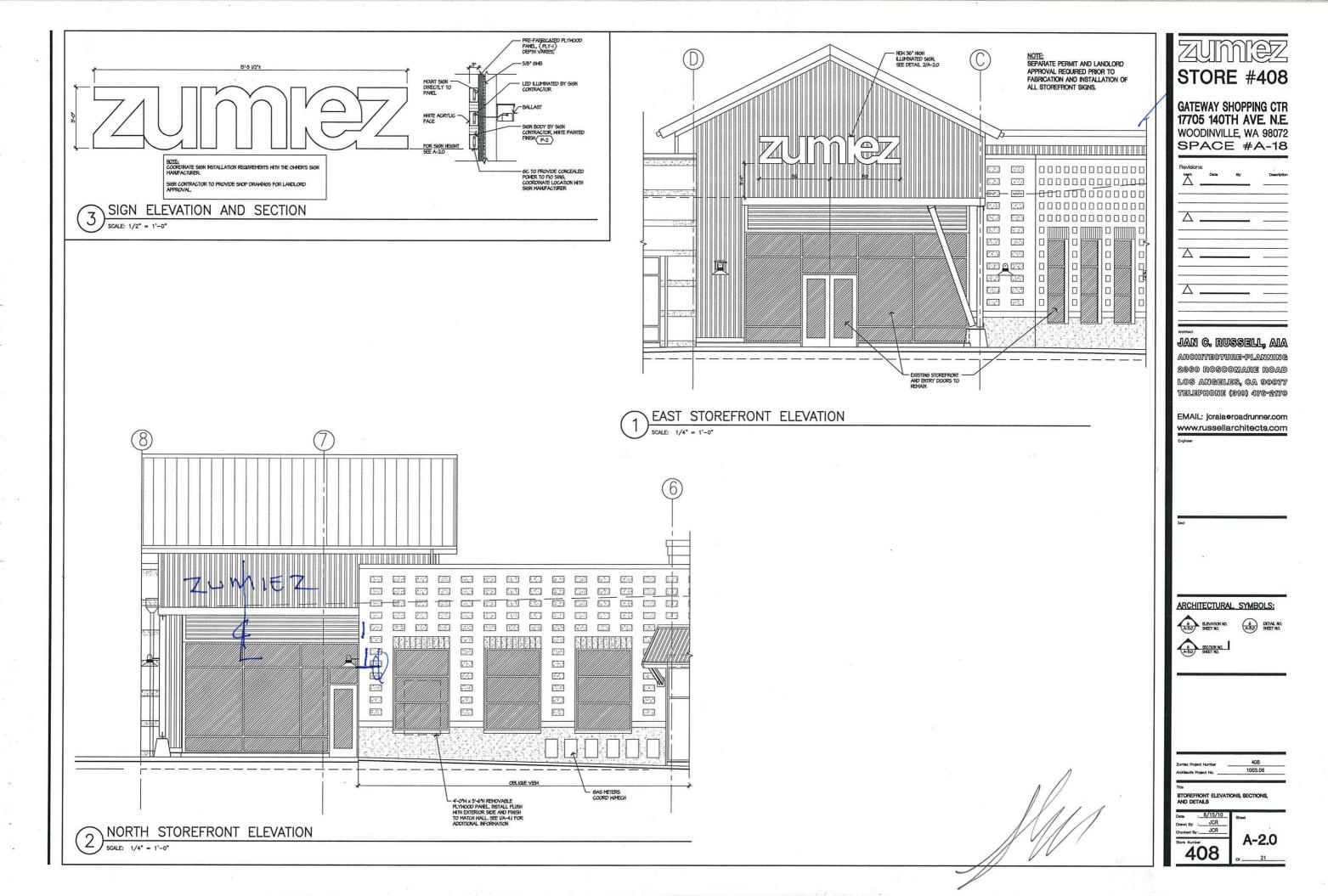
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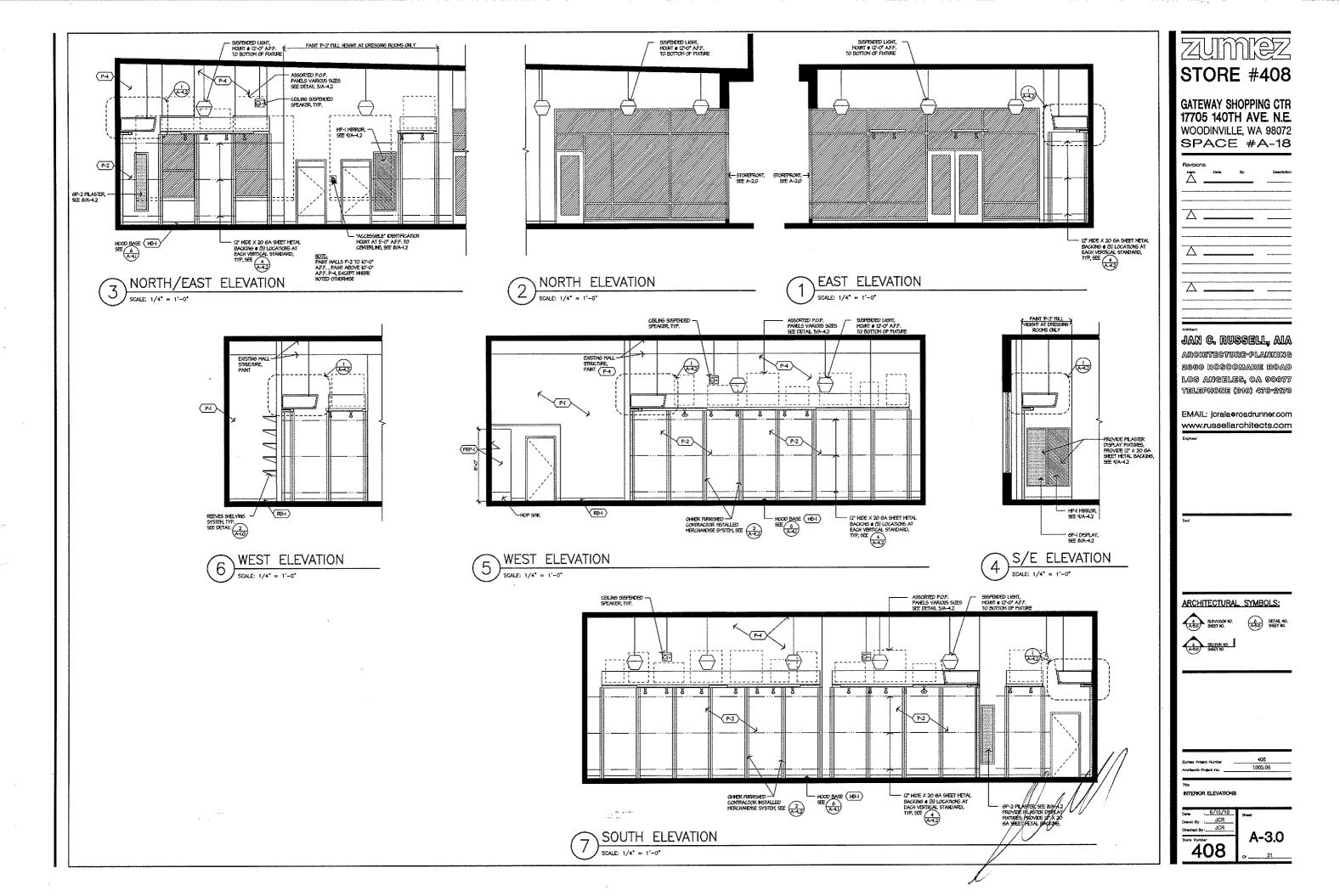
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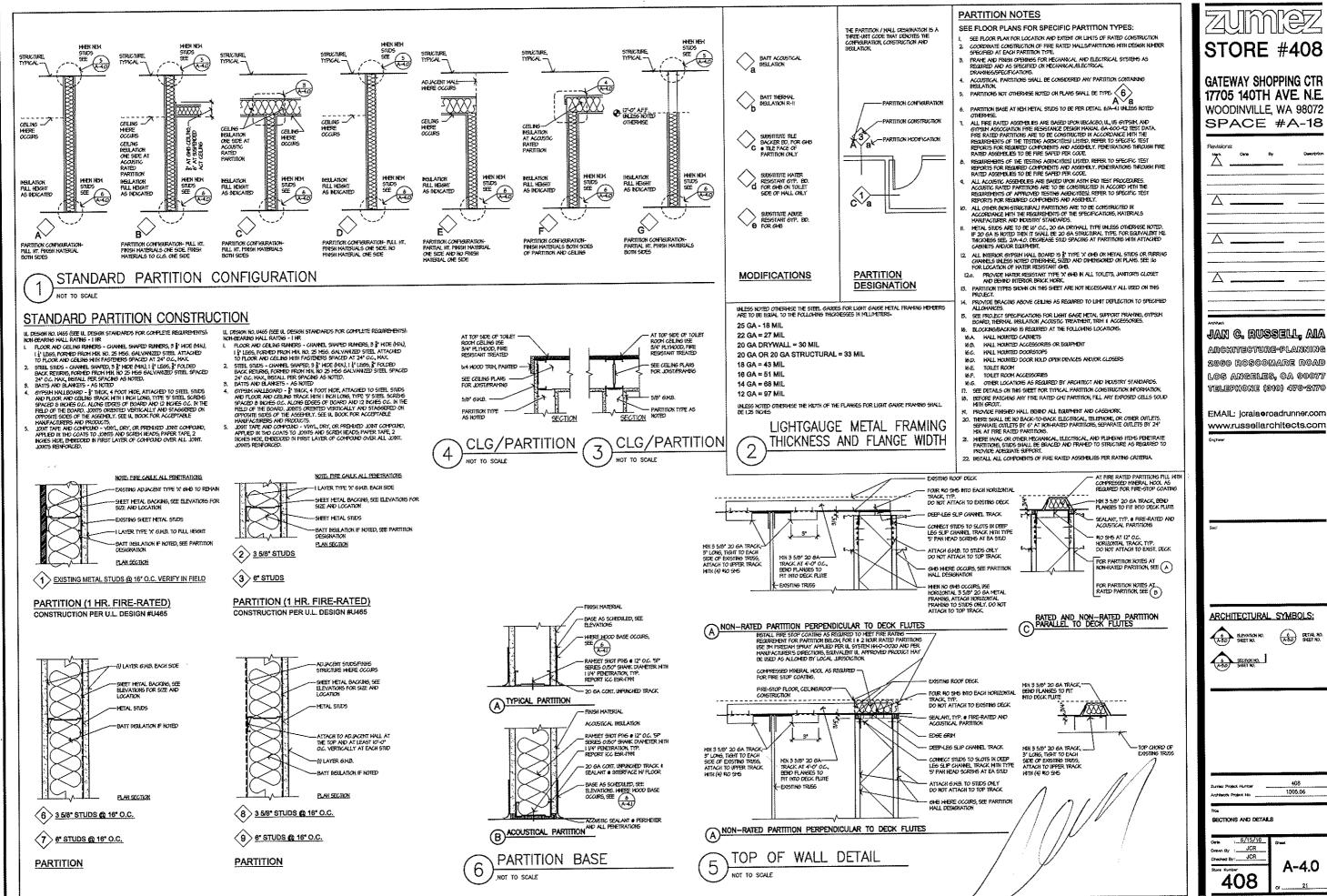
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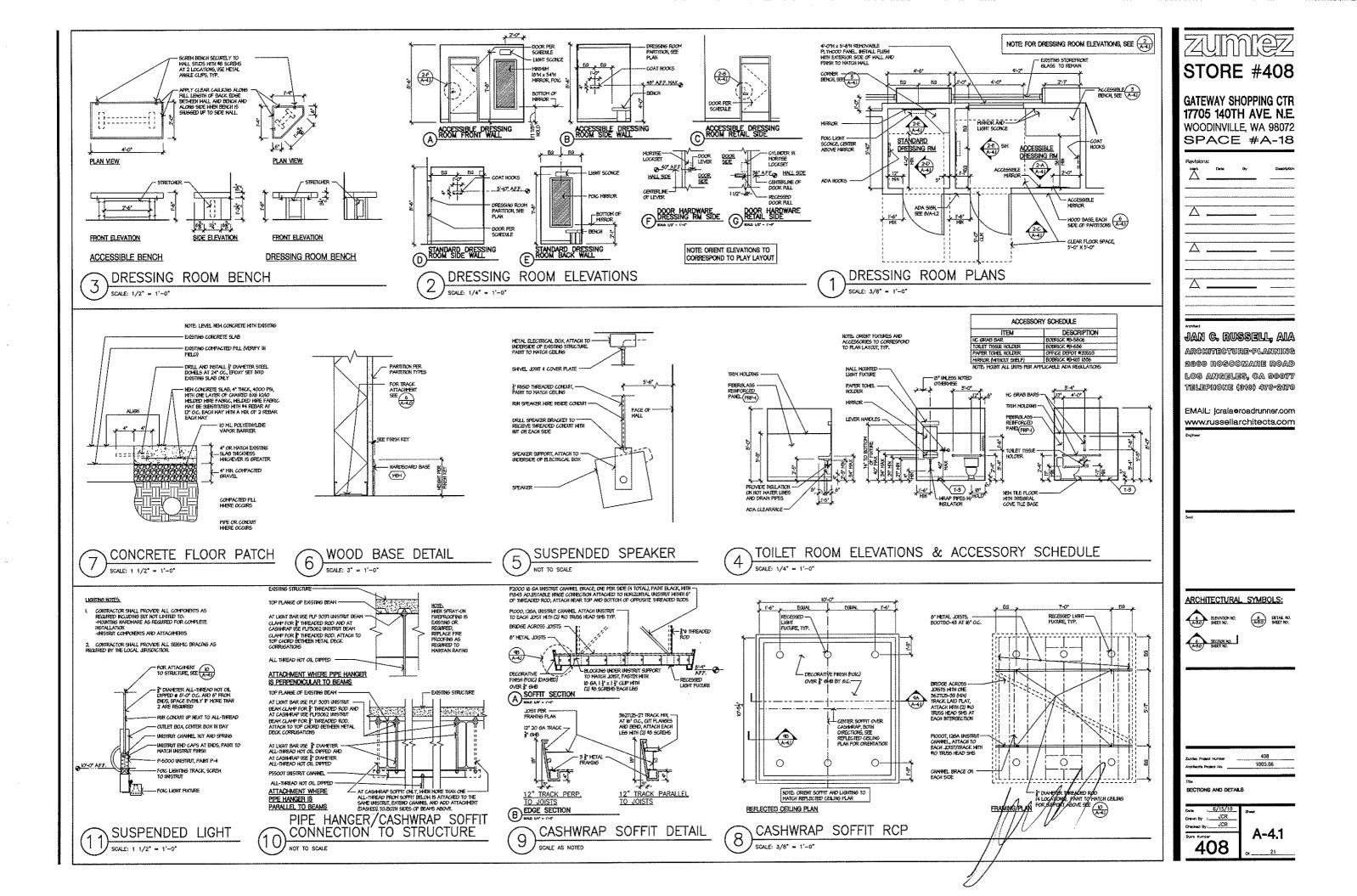


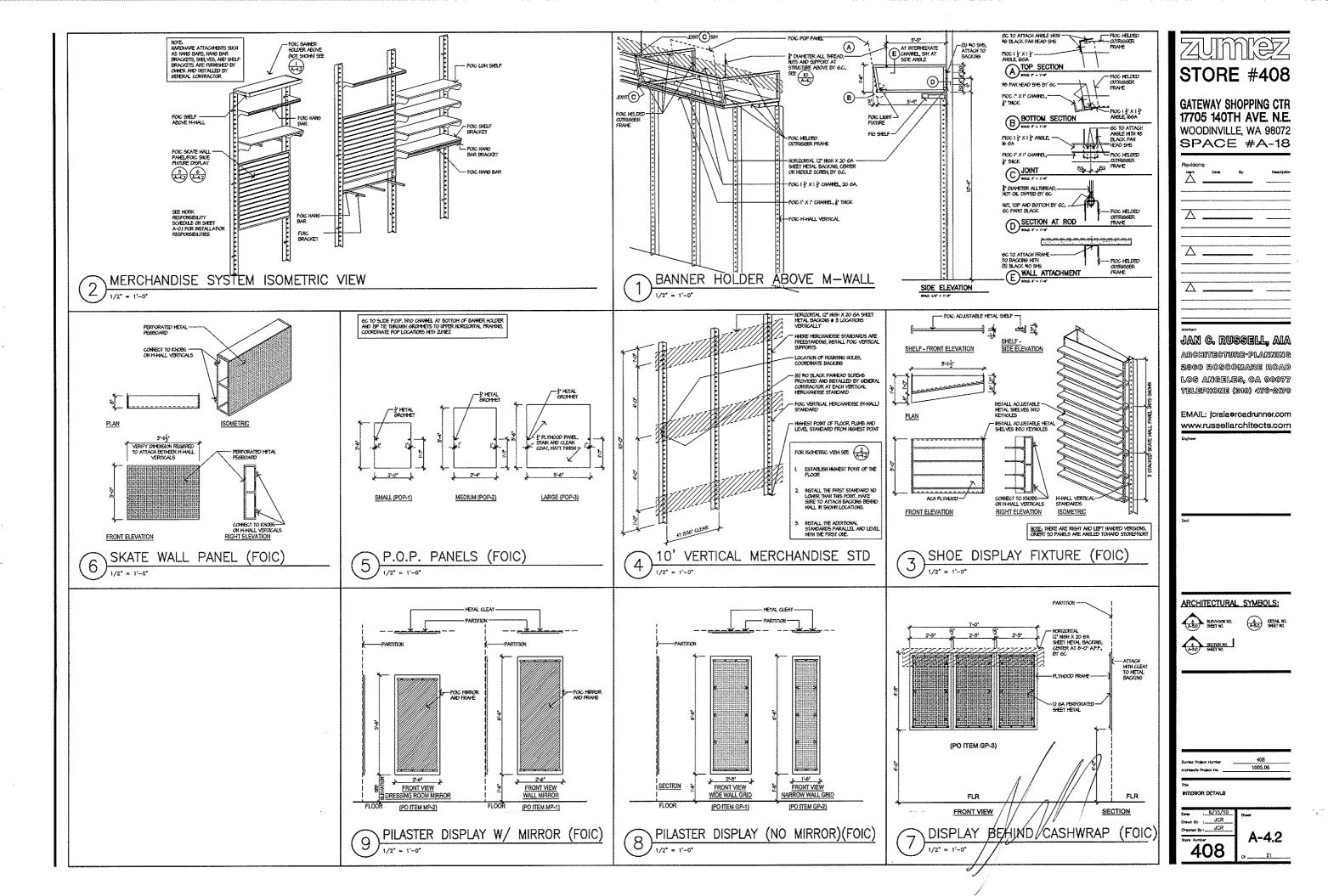




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ARTICLE 6 - CONSTRUCTION BY DANCE OF SY SUPARALE CONTRACTORS

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ARTICLE 9 - PAYMENT AND COMPLETION

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ARTICLE 11 - INSURANCE & BONDS

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GATEWAY SHOPPING CTR 17705 140TH AVE. N.E. WOODINVILLE, WA 98072 SPACE #A-18

Date By

Jan C. Russell aia architecture-planning 2860 ROSCOMARE ROAD Los angeles. Ca 90077 Telephone (310) 476-2170

EMAIL: jcrala@roadrunner.com www.russellarchitects.com

ARCHITECTURAL SYMBOLS:

BLEVATION NO. 6 DETAL NO. SHEET NO.



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ARCHITECTURAL SPECIFICATIONS

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STORE #408 GATEWAY SHOPPING CTR 17705 140TH AVE. N.E. WOODINVILLE, WA 98072 SPACE #A-18 Owte By Jan C. Russell Aia ARCHITECTURE-PLAMNING 2860 ROSGOMARE ROAD Los angeles, ca 90077 TELEPHONE (310) 476-2170 EMAIL: jcraia o roadrunner.com www.russellarchitects.com ARCHITECTURAL SYMBOLS: BLEVATION NO. 6 DETAL NO. SHEET NO. SECTION NO. 408 1005.06 raffacte Project No. ARCHITECTURAL SPECIFICATIONS

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					PL	JMBING FIXT	URE SCHE	DULE	
MYSK	FIXTURE	85	SIR HOKAS	es (nashi	M)	WANTUFACTURER	MODEL	DESCRIPTION	HOTES
		CW	HW	WASTE	VENT	1			1
WCI.	WATER CLOSET	3/4		4*	2"	AMERICAN	CADET	16-1/2"H ELONGATED BOWL, 1.5 GPF. PROVIDE AMERICAN	1,2
	HANDICAP					STANDARD	2467.016	STANDARD SEAT 5311.012 "LAUREL" WITHOUT COVER.	
LI	LAYATORY	1/2	1/2	1 1/4	1 1/4	AVERICAN	DECLYN	WALL HUNG, CERANIX 2000.100 FAUCET, MAX FLOW	1,3,4
)		1		STANDARD	0321.075	AT 0.5 OPM, ORID STRAINER AND 1-1/4 " P-TRAP	
SSI	MOP SHK	1/2	1/2"	2"	1 1/2	AMERICAN	193001	ALL-IN-ONE HEAVY DUTY SERVICE SHK KIT	
		1	1	1	l	SHOWER		INCLUDES FALICET AND P-TRAP	1
		1	1	1	ı	AND BATH	l 1		1

- ALL FIXTURES TO BE WHITE.

 HOART CONTROLS ON ACCESSIBLE / WIDE SIDE OF TOWLET.

 PROMOTE TRUNGS GUARD PROTECTIVE PRO COVERS ON EXPOSED HOT WATER AND ORAIN LINES...

 PROMOTE WATES SERIES USG-B MIXING VALVE OR EQUAL.

WATER HEATER SCHEDULE								
WARK	AREA SERVED	MANUFACTURER	₩ODEL	TANK SIZE	V/PH/HZ KW	NOTES		
WHI	RESTROOKS	a.o. swith	8~£36	6	120/1/60 1.5	A, B		

- GENERAL INFORMATION (ALL UNITS):

 1. 1107 OUTLET TEMPERATURE.

 2. CONTRACTOR SHALL CHOOSE A SCHEDULED UNIT OR A COMPARABLE
 UNIT OF A DIFFERNIT MANUFACTURER.
- a provide antro. (Or equal) expansion tank, and drain pan szed per nanufacturen's reconnendations. B. Nount water heater on nanufacturen's support platform.

PLUMBING NOTES

- EACH CONTRACTOR IS RESPONSIBLE FOR HAMMO THOROUG MADMLEDGE OF ALL BRAWNES AND SPECHICATIONS AS THEY RELATE TO THIS WORK, NO ADDITIONAL COMPENSATIO SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
- . PROMDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTODEOD USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MARKFACTURER'S RECOMMENDATIONS.
- COORDINATE SEWER, GAS, AND WATER CONNECTIONS WITH CMIL AND ANI. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY ANI.
- . REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULE FOR ALL PIPING AND PIPE SIZES NOT SHOWN (PLAN.
- FIELD ADJUST WATER CLOSET FLUSHING MECHANISM FOR PROPER FLUSHING OPERATION.
- . Suntary and storm sewer piping shown is based on 1/4" per foot fall for all pipe smaller than 4" dameter and 1/8" per foot fall for pipe 4" dameter and langer. ALL SCHER PIPING BELOW SLAB TO BE 2" DIAMETER MINARUM.
- PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEAN-OUTS; AND NOT ABOVE AN ACCESSBLE CEILING.
- 10. INSTALL YTR'S, EDHAUST FANS, AND FLUES A MINIMUM 5'-0' FROM PARAPET OR OUTSIDE WALL AND 10'-0' MINIMUM FROM EQUIPMENT WITH OUTSIDE AR INTAKE,
- Install water pipe on inside of exterior wall insulation to prevent freezing.
- 12. PROVIDE SEISMEC BRACING BASED ON APPROPRIATE SEISME ZONE REQUIREMENTS PER LOCAL AND MATIONAL CODES. CONTRACTOR'S RESPONSELLY MICULES STRUCTURAL BIORIER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
- PROVIDE FIRE SEAL WHERE PIPES PENETRATE FIRE RATED ASSEMBLY.

KEYNOTE

15.103 RELOCATE EXISTING WATER METER AS SHOWN ON PLANS. IF RECOURED BY LANDLORD, PROVIDE NEW 3/4" REMOTE PROVIDE BACK FLOW PREVENTER IF REGURED BY LOCAL AND.

PLUMBING SYMBOLS

—ss—	SANTARY SCHER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
G	NATURAL GAS
co	CONDENSATE DRAIN
	PLUMBING VENT
	BALL VALVE
	BACKFLOW PREVENTER
W	water meter
O FD1	FLOOR DRAIN
	GAS PRESSURE REGULATOR
\\$⊦	CAS COCK
9	CONNECT TO EXISTING



INTERIORS



STORE 408

GATEWAY SHOPPING CTR 17705 140TH AVE. N.E. WOODINVILLE, WA 98072 SPACE # A-18

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2860 ROSCOMARE ROAD Los angeles, ca 20077 TELEPHONE (\$10) 476-2170

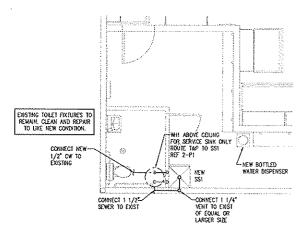
EMAIL: jcrala@roadrunner.com www.russellarchitects.com

FOR INFORMATION ONLY

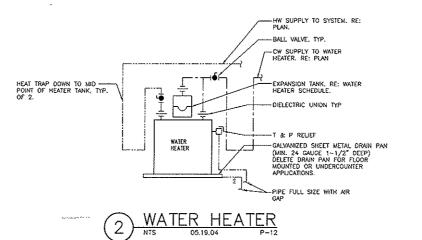
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Drawn By : JPJ nonted By: GJS

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DIVISION 15

15A: GENERAL

15A 1-1 GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY CONTRACTOR SHALL BECOME HOROUGHLY
ACQUAINTED WITH ITS CONTENTS AS TO
REQUIREMENTS THAT AFFECT THIS DIVISION OR
SECTION, THE WORK REQUIRED UNDER THIS SECTION SICCLUDES MATERIAL, EQUIPMENT, APPLIANCES,
TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO
COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE
DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH, IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND FOR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

15A 1-2 INSPECTION OF SITE

PRIOR TO SUBMITTING BID, WSIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

15A 1-3 MATERIAL AND WORKMANSHIP

PROVIDE NEW MAYERIAL, FOUPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF SEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INCCESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

WORK PERFORMED UNDER THIS CONTRACT SHALL WORK PERFORMED UNDER HIS CONHEAD! SMALL PROVIDE A NEAT AND "MORKMANINE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENCINEER. WORKMANSHIP SHALL BETHE THEST POSSIBLE BY EXPERENCED MECHANICS. INSTALLATIONS SHALL GOMELY WITH APPLICABLE THE THEST PROVIDED HER STALLATIONS SHALL GOMELY WITH APPLICABLE THE STALLATION SHALL GOMELY WITH A STALLATION SHALLATION SHALLATION SHALL GOMELY WITH A STALLATION SHALLATION SHALL GOM CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO SETTICENCY, CAPACITY, NOISE LEVEL ETC. ABNORMAL MOSE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCITS, AIR DEVACES, AND SQUEAS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN COMPONENTS WILL NOT BE ACCEPTABLE BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL, TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

15A 1-4 COORDINATION

CORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROWDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES. OTHER TRADES.

FIGURED DIMENSIONS, SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING. AS VARATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR FERORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR DUCTWORK LAYOUT TO THE CONSTRUCTION MANAGER FOR OWNER APPROVAL PRIOR TO INSTALLATION.

15A 1-5 ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MIRMUM, BE IN CONFORMANCE WITH APPUCABLE NATIONAL STATE AND LOCAL GODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPULANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR SOCIETY OF PREMIND, REPRICEMENTALLY, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER

NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCECT THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR AND FUNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW. OWNER, CONTRACTOR WILL 8 FOR VIOLATIONS OF THE LAW.

15A 1-6 PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB STE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARE OR POLYETHYLINE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVATES WILL BE REJECTED, AND CONTRACTOR IS OBJUGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND.

KEEP PREMISES ROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

KEEP THE MANUFACTURER PROVIDED PROTECTIVE COVERINGS ON FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS DURING CONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.

15A 1-7 OPERATION AND MAINTENANCE INSTRUCTIONS

COLLECT AND COMPILE A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WRING DIACRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLIDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT COPIES OF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CUPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF PILMBING SYSTEUS WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEBMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

15A 1-8 WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FALLTY WORKMANDH, DESIGN OR MATERIAL FOR A PERGOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REWEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIODS), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL.
MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY
ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTEY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

15A 1-9 CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC.
AS REQUIRED TO INSTALL WORK UNDER THIS SECTION.
OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO
CUTTING, DO NOT CUT OR DISTURE STRUCTURAL
MEMBERS WITHOUT PRIOR APPROVAL FROM THE
ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE.
GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS,
ETC. AS REQUIRED BY WORK UNDER THIS SECTION.
PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND
CONSTRUCTION. REPAIR AND REFINISH AREAS
DISTURED BY WORK TO THE CONDITION OF ADJOINING
SURFACES IN A MANNER SATISFACTORY TO THE

15A 1-10 ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

15A 1-11 STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT PLUMBING AND MECHANICAL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT PLUMBING EQUIPMENT FROM CELINGS, OTHER MECHANICAL OR ELECTRICAL COMPONITS, AND OTHER NON-STRUCTURAL ELEMENTS.

15A 1-12 ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWGRIVER-TYPE LOCK, MOCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

15A 1-13 PENETRATIONS

SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER HIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH 4 POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).

COORDINATED FIRE RATING REQUIREMENTS AND COORDINATES THE RATHER RECONSTRUCTS AND
LEOCATIONS WITH THE ARCHITECT. SEAL
PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH JM
CP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS
AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CAST IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/LINK SEAL, CALPICO, INC AND

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SLEEVES FOR VERTICAL PIPE PASSING THROUGH SLAB ON GRADE. SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILLOONE CAULK.

158: HEATING, VENTILATION, AND AIR CONDITIONING

15B 1-1 DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS CORRESPONDING TO THE SYSTEM PRESSURE. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A TWO-INCH PRESSURE RAING AND SEAL CLASS B.

SUPPLY AND RETURN DUCTWORK INSIDE THE BUILDING SHALL BE INSULATED WITH 1" THICK ACCUSTICAL LINING WITH A MINIMUM R-VALUE OF 5 OR EXTERNALLY WRAPPED WITH 2* THICK GLASS FIBER DUCT WRAP. INSULATE SUPPLY AND RETURN DUCTWORK LOCATED OUTSIDE THE BUILDING WITH 2"
UNER AND SEAL SEAMS WEATHER TIGHT. DEDICATED
OUTSIDE AIR SUPPLY DUCTWORK LOCATED WITHIN THE BUILDING SHALL BE INSULATED WITH 2" DUCT WRAP.

EXPOSED DUCTWORK IN SALES AREA SHALL NOT HAVE

FLEXIBLE DUCTWORK MAINS ARE NOT PERMITTED. PROVIDE MAXIMUM 5'-0" FLEXIBLE DUCT CONNECTIONS TO CEILING DIFFUSERS.

FURNISH AND INSTALL VOLUME/BALANCE DAMPERS AT ALL BRANCH DUCTS TO DIFFUSERS. LOCATE DAMPERS A MINIMUM OF 4'-0" AWAY FROM DIFFUSERS.

INSTALL VIR'S, EXHAUST FANS, AND FLUES A MINIMUM OF 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AR INTAKE.

15B 1-2 ELECTRICAL WIRING

LINE VOLTAGE WIRING SMALL BE FURNISHED BY DIMSION 16. LINE VOLTAGE CONTROL AND INTERLOCK WRING FOR MECHANICAL SYSTEMS SHALL ALSO BE FURNISHED BY DIMSION 16 CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE BY THE DIMSION 15 CONTRACTOR. PROVED WIRING DIAGRAMS TO THE DIMSION 16 CONTRACTOR AS REQUIRED FOR PROPER COUPLEAN HOOKUP. CORDINATE WITH THE DIMSION 16 CONTRACTOR THE ACTUAL WRE SIZING AMPS FOR MECHANICAL CONDITIONS OF CONTRACTOR THE ACTUAL WRE SIZING AMPS FOR MECHANICAL CONDITIONS (FORCE THE CONTRACTOR). MECHANICAL EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

ALL TEMPERATURE SENSORS, FAN SWITCHES, AND SPEED CONTROLS SHALL BE INSTALLED 43" ABOVE THE FLOOR FOR ADA REQUIREMENTS.

158 1-3 FINAL TESTING AND ADJUSTMENTS

AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONTRACTOR. BALANCE EACH SUPPLY, RETURN, OUTSIDE AIR DEMCE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND OVED BY OWNER'S REPRESENTATIVE ON THE DAY TENANT OPENS FOR BUSINESS.

ADJUST THERMOSTATS AND CONTROL DEVICES TO AUJUSI I HEMMUSIAIS AND CONTROL DEMCES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT I THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTIORILY. CALIBRATE, SET AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

15C: PLUMBING

15C 1-1 PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING

DOMESTIC WATER (COLD, HOT, SOFT): DOMESTIC WATER PIPING INSTALLED ABOVE THE FLOOR SLAB INSIDE THE BUILDING SHALL BE TYPE "L" HARD TEMPER COPPER TUBE WITH WROUGHT COPPER.

95/5 SOLDER. BRAZED MECHANICALLY FORMED TEE CONNECTIONS (T-ORILL) MAY BE USED IN COPPER LINES WHERE APPROVED BY CODE; CONNECTION SHALL BE MADE WITH BRAZED SILVER SOLDER (SILFOS) JOINTS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.

UNDERGROUND DOMESTIC WATER PIPING SHALL BE TYPE "K" SOFT IEMPER COPPER TUBING WITH FLARED COPPER ALLOY FITTINGS AND CONNECTIONS, OR TYPE "K" HARD EMPER COPPER TUBING WITH CONVENTIONAL WROUGHT COPPER FITTINGS AND CONVENTIONAL WOODER COPPER FITTINGS AND SILVER SOLDER (SILFOS) SOINTS. INSTALL AS FEW UNDERGROUND COPPER PIPING JOINTS AS POSSIBLE. AT BUILDING SERVICE ENTRANCE, NO JOINTS SHALL BE INSTALLED UNDER OR WITHIN 5 FEET OF THE BUILDING. INSTALL DOMESTIC WATER PIPING BELOW GRADE OUTSIDE BUILDING AT ADEQUATE DEPTH TO PREVENT FREEZING.

INTERIOR WASTE AND VENT BELOW SLAB: WASTE AND INTERIOR WASTE AND VENT BELOW SLAB: WASTE AND VENT PIPE BELOW SLAB INSIDE BUILDING SHALL BE STANDARD WEIGHT CAST IRON SOIL PIPE WITH HUB AND SPIGOT FITTINGS WITH NEOPRENE CASKET JOINTS. HUB LESS WASTE AND VENT PIPE IS NOT PERMITTED BELOW BASE SLAB. PVC DWY PIPE WITH SOCKET FITTINGS AND SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE.

INTERIOR WASTE AND VENT ABOVE SLAB: WASTE AND VENT PIPE ABOVE SLAB INSIDE BUILDING SHALL BE HUB LESS CAST IRON SOIL PIPE AND FITNINGS WITH HUB LESS COUPLINGS. PUC DWY PIPE WITH SOCKET FITTINGS AND SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE.

INTERIOR STORM DRAIN; INSIDE BUILDING SHALL BE SAME AS SPECIFIED FOR INTERIOR WASTE AND VENT

INDIRECT AND CONDENSATE DRAIN INSIDE BUILDING: INDIRECT AND CONDENSATE DRAIN PIPE INSTALLED INSIDE THE BUILDING SHALL BE TYPE "M" HARD COPPER WITH WROUGHT COPPER FITTINGS FOR 1" AND COPPER WITH WINCOGHT COPPER HITHINGS FOR 1 AND SMALLER AND "OWY COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS FOR 1-1/4" AND LARGER HARD TEMPER COPPER TUBE AND SOLDERED CONNECTIONS MADE WITH 95/5 SOLDER. INSTALL CLEANOUTS AT ELBOWS GREATER THAN 45 DEGREES.

GAS PIPING: GAS PIPING SHALL BE BLACK STEEL, STANDARD WEIGHT, SCHEDULE 40 ASTM A53. PIPING 2" AND SMALL SHALL BE WELDED OR THREADED WITH AND SMALL SHALL SE WELDED ON HIREAUED WII MALLEABLE IRON STITUNGS. PIPING 2 1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTING. STITUNGS SHALL CONFORM TO ASSEE BIG.3, MALLEABLE IRON OR ASTM A 234, FORGED STEEL

15C 1-2 PIPING AND EQUIPMENT INSULATION

DOVESTIC COLD WATER HOT WATER INDIRECT AND DOMESTIC COLD WATER, HOT WATER, INDIRECT AND CONDENSATE DRAIN PIPE (WITHIN BUILDING): 1" ONE-PIECE FIBERCLASS COVERING WITH PRE-RESITANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRER BY CETAINTEED, OWENS-CORNING OR ARMISTRONG. FOR PIPING AT HANGERS PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE HIGH DERSHIT, HIGH TEMPERATURE CALCUM SIDALE BY JOHNS-MANVELE, FIBERGLASS BY KNAUF, OR 8' LONG STYROFOAM BILLETS BY DOW. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE. EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FORTHERS.

FOR HOT AND COLD WATER PIPING INSTALLED INSIDE MASONRY UNITS OF WALLS, PROVIDE X" FLEXIBLE UNICELLULAR INSULATION BY ARMACELL.

COVER EXTRIGS WITH ZESTON, KNAUE, OR EQUAL COVER FITHINGS WITH ZESTON, KMAUF, OR EQUAL ONE-PIECE PVC PERMOLDED INSULATING COVERS. FITHING COVERS, JACKETS AND ADHESIVES SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT RATING OF 50 PER ASTM E84. AT ALL ELBOWS AND TEES, FILL VOXOS BETWEEN COVERS AND PIPING WITH FIBERGLASS INSULATION AND TAPE JOINTS. INSTALL PIPE INSULATION IN COMPULANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE PREVIOLED INSULATING FITHINGS ARE NOT APPROVED BY LOCAL AUTHORITIES, MITER INSULATION AT FITHINGS.

15C 1-3 PIPING INSTALLATION

15C.1-3 PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO
INSTALLATION. REAM ENDS OF PIPE TO REMOVE
BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS
TAKEN ON THE JOB. INSTALL WITH ADEQUATE

CLEARANCE FOR INSTALLATION OF COVERNOS WHERE
COURRED. PIPE SHALL NOT BE SPRUNG OR BENT.

NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND
SUPPORT IT FROM THE BUILDING STRUCTURE WITH
HANGERS AS SPECIFIED BELOW. PROVIDE
CHROME—PLATED ESCUTOCHEONS ON PIPES PASSING
THROUGH CEILNIS, PLOORS OR WALLS OF FINISHED
SPACES. RUN PIPES FRELLY THROUGH FLOOR AND
WALL PENETRATIONS USING PIPE SLEEVES. DO NOT
GROUT IN PLACE UNIESS REQUIRED FOR STRUCTURAL
PIRE INTEGRITY. INSTALL PIPE CONCEALED IN
FINISHED SPACES WHEREVER POSSIBLE. USE A
DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE
CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC
STEEL BODY, A THREADED MYLON INSERT, AND
INSULATING PRESSURE GASKET. NO FERROUS
METAL—TO—COPPER CONNECTION MADE WITHOUT
INSULATING UNIONS WALL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOSTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGHD HANGER PROVIDED TO THE STAILLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTYORS. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS

SOIL, WASTE AND STORM: GRADE SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN ½" PER FOOT FOR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT 1/8" PER FOOT. LAY PIPE AT UNIFORM SLOPE, FREE FROM SAGS, WITH HUB END UPSTREAM. SUPPORT PIPE AT EACH JOINT. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO CHEMICAL STATEMENT OF THE STATEMENT OF SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR IN THE HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS) AND "Y" FITTINGS.

DOMESTIC WATER: ARRANGE COLD, HOT AND HOT WATER RECIRCULATION PIPING TO DRAIN AT THE LOWEST POINT IN EACH SYSTEM. INSTALL AT LEAST ONE PIPE UNION ADJACENT TO ALL SHUTOFF VALVES, AT CONNECTION POINT OF EACH PIECE OF EQUIPMENT OF ALLOW PROPER MAINTENANCE. PROVIDE UNIONS OF THE GROUND JOINT TYPE. MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION WHERE REQUIRED BY THE INSTALLATION. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, HOLD PIPE AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF WALL AND INSTALL INSULATION BATT OR OTHER INSULATION (MINMUM R8) BETWEEN PIPING AND THE EXTERIOR WALL FACE.

15C 1-4 EXTERIOR UTILITY CONNECTIONS

TERMINATE DOMESTIC WATER, STORM, AND SEWER LINES AT A POINT APPROXIMATELY FIVE FEET FROM THE BUILDING WALL, OR AS SHOWN ON THE DUILDING WALL, OR AS SHOWN ON THE ORAMINOS, MARKE CONNECTION TO THE VARIOUS SERVICES PROVIDED BY OTHERS AND COMOINATE CONNECTION REQUIREMENTS WITH CIME ENGINEER. VERIFY THAT INSTALLATION WILL THE INTO THE INDICATED INVERT ELEVATION POINT PRIOR TO INSTALLATION, IF THE INSTALLATION WILL NOT THE INTO THE INDICATED INVERT ELEVATION POINT WHILE WISTALLATION, FORCER FALL, NOTHEY ARCHITECT AND CIME ENGINEERS SO THAT AN ALTERNATIVE MAY BE DETERMINED.

PROVIDE SERVICE PIPING AND ACCESSORIES REQUIRED TO COMPLETE UTILITY CONNECTIONS THAT ARE NOT FURNISHED BY THE SERVING UTILITY.

15C 1-5 SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE OFON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTEO BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE RECURRED TESTS HAVE BEEN COMPLETED, BUT IT RECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK BOTH. REPRAY OF REPLACE SYSTEM DEFECTS MITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, GRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATURE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTIATY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE

15C 1-6 GUARANTEE

THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLATION, AND CONNECTION OF PLUMBING SYSTEDS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BY SICKING THE CONTRACTOR ACKNOWLEDGES THAT HE HAS ACQUAINTED HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO SE PERFORMED, AND THE DRAWINGS AND SPECIFICATIONS PERTAINING THERETO, AND HE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTAINING THERETO, AND THE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTAINING THERETO, AND THE PERFORMANCE OF THE WORK.

CUARANTEE THAT THE PLUMBING INSTALLED UNDER THIS CONTRACT IS FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE WORKMANSHIP AND MALERIALS FOR A PERMU OF ONE (1) YEAR FROM THE DATE OF JOB ACCEPTANCE BY THE OWNER. THIS SHALL INCLUDE A GUARANTEE OF FREE GROULATION OF LIQUIDS THROUGHOUT THE SYSTEM AS INTENDED WITHOUT LEAKS, EXCESSIVE NOISE, OR WATER HAMMER.

IF DEFECTS OCCUR DURING THE ONE YEAR GUARANTEE PERIOD, REPAIR OR REPLACE SUCH DEFECTS AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND



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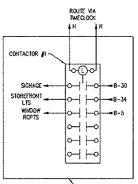
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1005.06 hBaotte Project No. MECHANICAL SPECS mu ay :...JPJ

Created By: GJS 408

MP1



-contractor to Provide enclosure For contactors

CONTACTOR DETAIL

N.T.S.

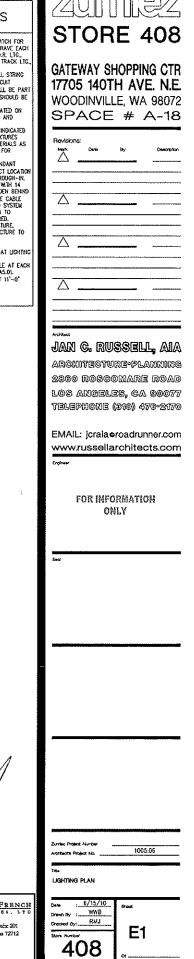
		LIGHTING FI)	TURE	SCHE	DULE			
					LAMP			
TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	WATTS	ORDER MUMBER	QΥ	DESCRIPTION	NOTES
٨	FOCAL POINT	FGRG-2C-42TT-S-120-C144-LB41-NA	120	91	GX24Q-4	1	THAGEGR	1,4
В	LICHTOLIER	TOUER 917388K		50	50 W MR16 NFL	7	TRACK LIGHTING	1,4
c	UCHTOUER	81108K	120	45	CMH39PAR20L/FL30	1	TRACK LIGHTING	1,4
0	RESOLUTE	ZUWIEZ ~ M WALL	120	23	F21 75	1	WERCHANDISE LICHT	1,4
ε	RESOLUTE	80X	120	20	FT18W/2G11/835	1	WALL SCONCE	1,4
F	LICHTOLIER	04A02 8011CQL 4118VU	120	28	26W CFL	1	RECESSED DOWNLIGHT	1,4
1	WETALUX	enx-214 hrap	120	39	F28-16-SP35-UNX	١	CHAIN HUNG	1,3,4
ΙĔ	NETALUX	EFIX-2W WRAP EL	120	39	F28-T8-SP35-UNX	١	CHAIN HUNG	1,3,4
к	LITHOMA	WC217-120-TU81	120	32	F017 T8 4100K	2	VARITY	1,4
Р	LIGHTOLIER	\$71428U/8022	120	45	F42TBX/835/A/EC0	1	RECESSED DOWNLIGHT	1,4
ι	LITHORIA	BJ4627	120	15	H1206-8-N-SD	2	EMERCENCY	2,4
Х	FILLOWAY	LON-S-1-R-120/277-EL	120	5	LED W/FIXTURE	1	EXI LIGHT	2,4

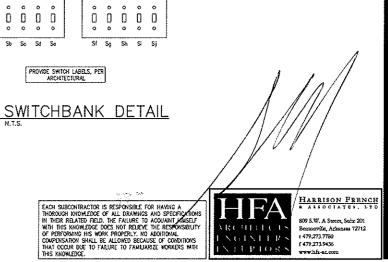
- FIXTURE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR.
- FIXTURE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR,
- PROVIDE SEISHIC BRACING AS HEEDED FOR CHAIN HUNG FIXTURES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL HOUNTING HARDWARE AS REQUIRED.

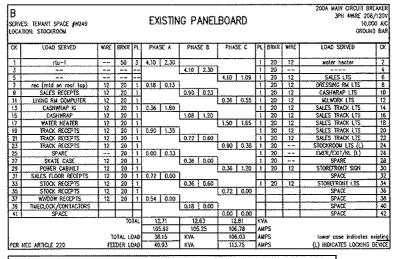
SMICH DAIK PROVIDE LUTRON WILLI-TECHNOLOGY COCCUPANCY SANSOR (OCCUPANCY SANSOR THAN 30 MM SETHING, TYP. PROVIDE LUTRON MULTI-TECHNOLOGY MULTI-TECHNOLOGY MULTI-TECHNOLOGY COCCUPANCY SENSOR	E TO COMPUTE TO THE PROMOTE HOT	TIXTURE, NI, DISCRIPTION OF THE PROPERTY OF TH	B (6.102) B (6.103) B (6.103)	
(OSSMI-COW) WITH NO MORE: THAN 30 MIN SETTING, TYP.	MOUNT AXTURES HI — STOCKROOM AND CORRIDOR +12'-0", TYP	1 LIGHTING PLAI	rg. Lo	MOUNT TO STRUCTURE, TYP OF SALES AREA
	(1) 1/4" = 1'-0"		

ELEC.	TRICAL SYMBOLS LEGEND	LIGHTING GENERAL NOTES		LIGHTING KEYNOTES
SYNBOX 19 / 99	UPLY ONLY WHEN USED ON BRAWINGS) DESCRIPTION EXIT PIXTURE (WALL MOUNTED/CEILING MOUNTED) DIERGENCY LIGHT	ELECTRICAL CONTRACTOR SHALL COMMISSION AND DEMONSTRATE UNCHING CONTROL SYSTEM FOR STORE PERSONILL. SHOPPING WITH STORE MANAGER WHEN DEMONSTRATION SHALL TAKE PLACE. COORDINATE WITH ARCHITECTURAL DRAWNOS FOR EXACT LOCATION AND QUANTITY OF LIGHT FIXTURES.	16.100	NEW SMICHBAIK. PROVIDE A LIGHTING SMITCH FOR EACH LIGHTING GROUT AS REQUIRED, ENGRANE EACH COMEP PLATE AS FOLLOWS, SALES LIG., DR. LIG., CASEWORK LIG., CASH WRAP LIG., SALES TRACK LIG., SEE SHITCH BANK DETAIL. LANDLORO TO PROVIDE CONDUIT, WITH PUBL. STRING AND UT BOX TOR THE TENANT'S SAC, CIRCUIT BREAKERS, NIME AND TENANDATIONS SHALL BE PART
\$3 \$3	SMICH, THREE-WAY	CONDUIT/ WIRING NOTES	16.102	OF TEMANT'S WORK, COORDINATE IF SIGN SHOULD BE ROUTE THROUGH LANGLORD THEOLOCK. PROVIDE TRACK LIGHTING AT HEIGHT INDICATED ON ARCHITECTURALS, PROVIDE ALL HARDWARE AND
\$os	SWITCH, OCCUPANCY SENSOR CELLING MOUNTED OCCUPANCY SENSOR	AC CABLING, MC CABLING, AND NONIMETALLIC SHEATHED CABLING ARE NOT ALLOWED. PLEOBLE CONDUIT IS NOT ALLOWED, EXCEPT FOR WHIP (LESS PRAN 6 FEET IN LENGTH), CONNECTION TO MOTORS.	16.103	HARGERS. INSTALL QUANTITY OF LIGHT FIXTURES AS INOXCATED OF ARCHITECTURAL DRAWNICS. INSTALL FIXTURES ALDING TRACK AS ORECTED, PROVIDE WATERIALS AS
Ψ •	RECEPTACLE, DUPLEX RECEPTACLE, QUADRUPLEX	TRANSFORMERS, AND OTHER EQUIPMENT THAT PRODUCES WERATIONS, USE ONLY GALVANIZED STEEL FLEX.	16.104	REGURED. SEE ARCHITECTURAL DRAWNIGS FOR SUSPENDED LIGHT DETAILS. INSTALL OWNER FURNISHED SPEAKERS. PENDANT MOUNT AT 113"-0" AFT CORROWATE EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
Ъ	NON-FUSED DISCONNECT	GEN. DEMOLITION NOTES		PROMOE LOOPED OR SERIES MARIG PLAN WITH 14 GAUSE PLENUM RATED SPEAKER WAR HOODEN BERKIND THE DRYMALL PROMOE 10' MIRKINIUM SPARE CABLE COLED AT CASH WARP FOR FINAL STEREO SYSTEM
-	SURFACE MOUNTED PANELBOARD TELEPHONE/DATA	REMOVE ALL EXISTING ELECTRICAL BRANCH CIRCUIT WRING, EXAPMENT AND DEVICES UNLESS NOTED OTHERWISE.	16.105	FERDINATIONS, PROMOE FINAL CONNECTION TO SPEAKERS AND SOUND SYSTEM AS REQUIRED. ROUTE CONDUIT CONCEALED UP TO STRUCTURE. ROUTE TIGHT TO THE UNDERSIDE OF STRUCTURE TO
(S)	SPEAKER NOTOR	Carried Control	16.106 16.107	PANELBOARD. NOT USED. ROUTE CROUIT TO RECEPTABLE MOUNTED AT LICHTING TRACK, SEE DETAIL ON SHEET A5,01.
DITOU DOON	CROUT, CONCEALED WHERE POSSIBLE, E INDICATES EXISTING WIRING	# 10 m m m m m m m m m m m m m m m m m m	16.108 16.109	LOCATION SHOWN, SEE DETAIL ON SHEET AS,OL. PROVIDE J-BOX FOR MILWORK LIGHTING AT 11'-0' AFF. COORDMATE FINAL CONNECTION WITH
GFT GROU WH WATE	ust fan Ind fault circuit interrupter ir heater e finished floor Al	To the contract of the contrac		CONSTRUCTION MANAGER.

So Sb Sc Sd Se







TIMECLOCK SCHEDULE						
NO.	LOAD SERVED	HANJE ACTURER CATALOG NO.	WOUTS VOLTS CCT, NO.	CONTACT	ENTRAL TIME SETTING NOTES	
T\$1	STOREFRONT SIGN STOREFRONT LIGHTS WINDOW RECEPTS	10RK W300L	120V 3P	40A 120V 3PST	INDOOR, 7 DAY,24HR NOTES: 1,2,3	
NOTES: 1. NOICATED SHITCH SHALL BE HEAVY OUTY TYPE. 2. FUNNISH AND INSTALL DISCONNECT SHITDES WITH DUAL ELDWENT, 3. THE PERLY FUSES AS EQUIPMENT MANDAGENERS REQUIRES.						

LOW VOLTAGE GEN. NOTES

FLEXBLE CONDUIT IS NOT ALLOWED, EXCEPT FOR WITP (LESS THAN 6 FEET IN LENGTH), CONNECTION TO MOTORS, TRANSFORMERS, AND OTHER ECCIPMENT THAT PRODUCES MBRATIONS, USE ONLY GALVANZED STEEL FLEX.

- PANEL CROUNT IDENTIFICATION SHALL BE PROVIDED, THE WRITTEN AND INSTALLED ON THE INSDE OF THE PANEL DOORS, PROVIDE CIRCUIT IDENTIFICATION FOR ALL NEW PANELS AND EXISTING PANELS THAT ARE TO BE REUSED.
- 3. IF TEMANT SPACE DOES NOT CONTAIN ELECTRICAL SERVICE NETER BY LANDLORD, CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE 2000 SERES E-HON 0-HOME ELETRICAL HETER ON THE WOOMNO ELECTRICAL SERVICE WITHIN THE TEMANT SPACE.

1. ALL LOW VOLTAGE WIRING SHALL BE ROUTED IN CONDUST.

GEN. DEMOLITION NOTES

REMOVE ALL EXISTING ELECTRICAL BRANCH CIRCUIT WIRING, EQUIPMENT AND DEVICES UNLESS NOTED OTHERWISE.

CONDUIT/ WIRING NOTES

. AC CABLING, MC CABLING, AND NORMETALLIC SHEATHED CABLING ARE NOT ALLOWED. 2. FLEXBILE CONDUST IS NOT ALLOWED, EXCEPT FOR WHIP

GENERAL NOTES

. RECEPTACLES SHALL BE IVORY IN COLOR UNLESS INDICATED OTHERWISE.

POWER KEYNOTES

16.121 SUBFACE MOUNTED JUNCTION BOX FOR HARD—WRED CASEWORK LIGHT FIXTURE. COORDINATE EXACT LOCATION WHILE CONTINUCTION MANAGER, PROVIDE WALL SWIGHT HAT BERT BANKE CALANDER FOR KNYOTT CONTROL OF LIGHT HAT BURK FOR TED. RINN ALL ASSOCIATED CONDITY SURFFACE MOUNTED ON FLOOR BENEATH CASEWORK, WISE LIGHT HATTING FLOUL. TO EVEN BENEATH CASEWORK, WISE LIGHT HATTING FLOUL. DEVIATION WHIT CONTINUCTION COORDINATE EXACT LOCATION WITH CONTINUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.

16.124 16.125 NOT USED
NEW TELEPHONE TERMUNAL BOARD. INSTALL NEW TELEPHONE TERMINAL BOARD, INSTALL
474/32/4 THE TERATED PHYDOOD BACKBOARD WITH
8 CU CAID, WISE TO NEAREST BULDING GROUND
ELECTRICAL CONTRACTOR STALL PROVODE
ALL RECARRENCY BURNATIONS FOR A COMPLETE
SYSTEM, COOKDINATE INSTALL WITH LANGLORD,
NOT USED
NOT USED WITH THE STATE WITH LANGLORD,
PROVINE DUPLEY RECEPTACE MOMENTE DISCOPRIY
ASOVE DISPLAY WINDOW, COOKDINATE EXCET
LOCATION WITH CONSTRUCTION MAINLAGED PRIOR TO
BUSTALLATION,
ROUTE POWER THROUGH TIMECLOCK.
ROUTE POWER THROUGH TIMECLOCK.

16.131

ROW (2) 1" CONDUIS OVERHEAD TIGHT TO UNDERSDE OF STRUCTURE EXTEND CONDUIS TO TELEPHONE TERMINAL BOARD. SEE "CASHWRAP" DETAIL. NOT USCD

TO WHATA, BUANDA, SEE MASTHITUS DE LINE.

NOT USED

1° CONDUIT STUB TO COLLING SPACE FOR WOED,
STENED, AND CHINE LLV. CABLE TO CASSWORK, VERIFY
LOCATION PRIOR TO ROUGH IN.

NOT USED

FOR SMARTIET — POKE—THROUGH (SF—PKI) OR FLOOR
BOX (SF—PB) MITH SF—DOP SUB—PLATE AND
SF—SI—CV COVER FOR CASSWORK LICHTIME.
COORDINATE ROUTING OF COMOUTS, INCLUDING ANY
TRENCHING, CUTTING, DEPLIES OR CORROL MITH
OWNER REPRESENTATIVE FORD TO COLMENCEMENT OF
WORK, MAINTAIN ALL FIRE RATIED ASSEMBLIES AS
ROUGHED. 16.135 16.136

REQUIRED.
FSR SMARTET - POKE-THROUGH (SF-PK1.5) OR 16 137 FSR SMARTHT - POWE-THROUGH (ST-PKI,5) OR LOOR BOY (ST-PB) WITH F-POPS SUB-P-LATE AND SIS-SI-CV COVER FOR THE LIVING ROOM COMPUTER. COCREWATE ROUTHEN OF COURSE WITH TRINCHING, CUTTING, DRILLING OR CORNIC WITH OWNER SEPTERINIATIVE PRIOR TO COMMENCEMENT OF WORK MARKENIAM ALL FRE RATED ASSEMBLES AS REQUIRED. COORDINATE COMPUTER AND MONER. PUTTING LOW-NOTAGE CABINET PROMODED BY OWNER. ROUTE SYSAKERS THROUGH OWNER PROMODED COMPONER CABINET WITH COMPUTER CABINET PROMODED CABINET WITH TO CASHRAP FROM CABINET TO RET TO CASHRAP FROM CABINET TO SERVED TO CASHRAP FROM CABINET WITH TO CASHRAP FROM CABINET TO SERVED TO CASHRAP FROM CABINET TO SERVED TO CASHRAP FROM CABINET TO CASHRAP FROM CABINET TO SERVED TO CASHRAP FROM CABINET TO CASHRAP TO C

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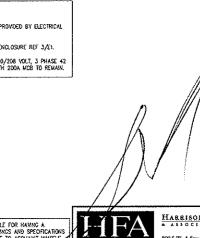
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> FOR INFORMATION ONLY

	(Je.13D)				£	,	
NEW PHONE BOARD (16.138) (16.139) 18" 10 REMAIN 1-LASE, AS PANEL 1"	JUNCTON BOX FOR CASE LICHTING 35 35 35 35 35 35 35 35 35 35 35 35 35 3	6.129 (16.136) South All For Cash Cash Cash Cash Cash Cash Cash Cash	TEST CASE UP ALL UNDERGROUNTS ONDMARTS TO BE INCOMPARTS	16.139 16.139 16.139 7'-6' 10 X FOR 110 K 110	E commence of	DISTING MAIN FEEDER 12 1/2°C, 14-250KOJE, 1940R 1940R TEMANT SPACE NOTE: ALL EQUIPMENT IS DOSTING TO REMAIN FEEDERS AND COMPANT ARE SHOWN MS	INEW ENFED HOTES: 1 NEW BME CLOCK PF CONTRACTOR: 2 NEW CONTACTOR EN 3 EXISTING 200A, 120 CRECUIT PANEL, WITH
MOUNT ABOVE DOM, COORDWATE IN WITH PLUMBING		83	(16.131) (16		The state of the s	2 ONE—LINE D	<u>OIAGRAM</u>
			B ₁₁₃	B 📆	American and a service and a s	13 II	ACH SUBCONTRACTOR IS RESPONSIBLE HOROUGH KNOWLEDGE OF ALL DRAWN



EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAMING A
HOROUGH NOMEDICE OF ALL DRAWNGS AND SECONGATIONS
IN THOR RELATED FELD. THE FALURE TO ACCOUNT HUISTLY
OF PERFORMING HIS WORK PROPERTY, NO ADDITIONAL
COMPENSATION SHALL BE ALLIEDED DECAUSE OF COMMITTIONS
THAT OCCUR DUE TO FAILURE TO FAMILIARIZE HORKERS WITH
HIS SKIMM FOR BO9 S.W. A Street, Snite 201 Bentonville, Arkanssa 72712 t 479:273.7780

1005.06 POWER PLAN

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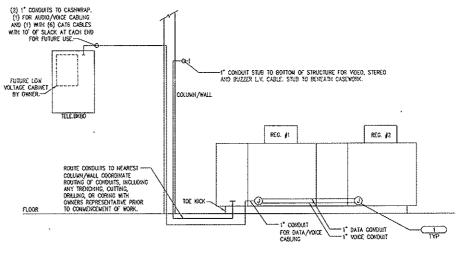
POWER PLAN

CASHWRAP DETAIL GENERAL NOTES

OCTAIL IS DIAGRAMMATIC. REGISTER LOCATIONS SHOWN ON PLANS MAY DIFFER FROM BETAIL. SET POWER PLAN FOR CASSWORK LISHTING ELECTRICAL REQUIREMENTS.
SET POWER PLAN FOR ADDITIONAL INFORMATION,

CASHWRAP DETAIL KEYED NOTES

PROVIDE JUNCTION BOX BENEATH CASEWORK ACCESS PANEL, ADJACENT TO 4-PLEX, FOR ROUTING OF NETWORK, DATA, AND TELEPHIONE CABUNG.



CASH WRAP DETAIL

27

EACH SUBCONTRACTOR IS RESPONSBLE FOR HAWNG A
THOROUGH KNOWLEDGE OF ALL DRIAWNES AND SPECIACIATION
THE RELEASE FIELD. THE FAILURE TO ACCURANT 1955.8
WITH THIS KNOWLEDGE DOES NOT RELEVE THE RESPONSBUTT
OF PERSONNER HIS WORK PROPERLY. NO ADOTHONAL
COMPONINATION SHALL BE ALLOWED BECAUSE OF CONDITIONS
THAT OCCUR DUE TO FAILURE TO FAMELIANIZE WORKERS WITH
THIS KNOWLEDGE.



HARRISON PRENCH

E3

Δ jan C. Russell, Aia architecture-planning 2860 ROSCOMARE ROAD Los angeles, ca 90077 TELEPHONE (310) 476-2170 EMAIL: icraia oroadrunner.com www.russellarchitects.com FOR INFORMATION ONLY Architects Project No. 1005.06 ELECTRICAL DETAILS Date : 6/15/10
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16A 1 GENERAL INSTRUCTIONS

16A 1-1 GENERAL REQUIREMENTS

ALL REQUIREMENTS LINDER DIVISION 1 AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS APPLY 10 THIS SECTION AND DIVISION TAKE THE REQUIREMENTS OF THIS SECTION AND DIVISION TAKE PRECEDENCE. BECOME THOROUGHLY FAMILIAR WITH ALL THEIR CONTIDITS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION, TAKE PRECEDENCE. BECOME THOROUGHLY FAMILIAR WITH ALL THEIR CONTIDITS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION, THE RECORDER OF THE SOURCE HAVE THE SOURCE NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS IMPLIED BY 16A 1-6 DIMENSIONS AND LAYOUTS. THE DESIGN AND THE EQUIPMENT SPECIFIED.

INCHAINS AND ENGRED REPRESENTATIONS OF THE MATERIALS AND THEIR THAT COULD HAVE BEEN AVOICED BY PROPER CHECKII RELATIONSHIP TO ONE ANOTHER, INCLUDING SIZES, SHAPES, LOCATIONS, INSPECTION, AT NO ADDITIONAL COST TO THE OWNER. AND CONNECTIONS. THEY ALSO CONNEY THE SCOPE OF MORK, INDICATING THE INTENDED CENERAL ARRANGEMENT OF THE EQUIPMENT, 16A.1—7. ORDINANCES AND CODES. AND CONNECTIONS. THEY ALSO CONVEY THE SCOPE OF WORK, MOICEANING THE INTEDIDED GENERAL ARRANGEDEATH OF THE EQUIPMENT EXTURES, QUITLETS AND GROUTS GHOUT SHOWING ALL OF THE EACH D'ETHALS AS TO GELEVATIONIS, OFFSETS, CONTROL LINES, AND OTHER INSTALLATION REQUIREMENTS. USE OF THE DRAWMINGS AS A COLOR WHEN LAYING CUT THE WORK AND TO VERRY THAT MATERIALS AND EQUIPMENT WILL FIT INTO THE DESIGNATED SPACES, AND WHICH, WHEN INSTALLED PER MANUFACTURES' REQUIREMENTS, WILL ENSURE COMPLETE, COORDINATED, SATISFACTORY AND PROPERLY OPERATING

16A 1-Z PRE-BIO SITE INSPECTION

PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED OF CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO MUL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER

16A 1-3 MATERIAL AND WORKMANSHIP

PROVIDE ALL MATERIAL AND EQUIPMENT NEW AND IN FIRST CLASS PROVIDE ALL MATERIAL AND EQUIPMENT NEW AND IN FIRST CLASS CONDIGION. PROVIDE MAKINGS OR A NAMEPHATE FOR ALL MATERIAL AND COMPHENT IONNITYING THE MANUFACTURER AND PROVIDING SUPPLICIANT REPORDED TO ISSUED HE MANUFACTURER AND PROVIDENCE OF DESTRUCTION AND REPORT THAT IS THE AND CAPACITY. ALL WORMANDER SHALL BE OF THE FREST POSSIBLE BY CONTRIBUTION DECLARATION FOR THE PROPER TRADE. IN CENTRAL, PROVIDE COMMERCIAL SPECIFICATION GRADE QUALITY FOR ALL MATERIALS AND COMPINITY. UNDIT DUTY AND RESDORMAL TYPE COMPRET MAINTENAMENT, TOOLS, MADINERY AND EQUIPMENT HE SOLUTIONS, STADIOR, RIMINARY, TOOLS, MADINERY AND EQUIPMENT HE ALEM CONTRIBUTED FOR THE PETP VIOLANCE OF THE ELECTRICAL WORK. STORM ANNIAN MATERIAL AND EQUIPMENT HE ALEM CONTRIBUTED FROM WEATHER, MOSTURE, AND PHYSICAL DAMAGE.

JUNISH ONLY MATERIAL AND EQUIPMENT THAT ARE LISTED, LABELED OR BOTH, BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), 16A 1-9 SUBMITIALS WED-LYR MY DEPTHS OF CAUCHING DOSTS FOR THE TYPES OF MATERIAL AND COMPMENT SPECIATION.

AT THE TIME OF SUBSTANTIAL COMPLATE

ALL WARRANTES, IN MOTION AND PRICE

TEMM LIMITS FOR MARRANTES SETEND.

TO BE FURNISSED, INSTALLED, OR BINL, LINGER OF SUBSTANTIAL COMPLATE

TO BE FURNISSED, INSTALLED, OR BINL, LINGER OF SUBSTANTIAL SO DO

INCLUDING SHOP DRAWNOS, MANUFACTURERS' PRODUCT DATA AND

INCLUDING SHOP DRAWNOS, PROVIDE THE NUMBER OF SUBSITIALS ROUTED

BY THIS DIVISION. PROVIDE THE NUMBER OF SUBSITIALS AND

COMPLETE SUBMITION. SHOPES THAT ALL MATERIALS AND

COMPLETE SUBMITION. SHOPES THE AND LIVE

THE TOPES OF CILING. AND DEETERMINE THE

SUBMITIALS AND OTHER SUBCIOURAL MEDICERS, AND TO

COMPLETE AND COOK—REQUEST ROOM FOR ACCESS AND MAINTENANCE.

SUBMITIALS NOT SO IDENTIFIED AND MITTENANCE.

SUBMITIALS NOT SO IDENTIFIED WILL BE RETURNED TO THE

COMPLETE OF CILING WALL, OR FLOOR FINISHES ACTUALLY

A THE TIME OF SUBSTANTIAL COMPLET.

AT THE TIME OF

WHENEVER USED IN THESE SPECIFICATIONS OR DRAWINGS, THE

JHLOADING, UNPACKING, ASSEMBLING, INSTALLING AND SIMILAR

RESIALS "TO PERFORM ALL OPERATIONS AT THE PROJECT SITE, RELIGION, BUT NOT LIMITED TO, AND AS REQUIRED. UNLOADING, UNFACIONE, ASSEMBLING, RETECTING, PLACINE, ANCHORNE, APPLYING, WITHOUT TO ANCHORY OF THE STREET, CLEANING, TESTING, COLUMNSCONNO, STATING UP AND SULLAR OPERATIONS. COMPLETE, AND READY FOR THE INTENDED USE,

PROVIDE: "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE

FURNISHED BY OWNER (OR OWNER-FURNISHED) OR FURNISHED BY THERE, "AN ITEM FURNISHED BY THE OWNER OR UNDER OTHER INVISIONS OF CONTRACTS, AND INSTALLED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE AND READY FOR THE INTENDED USE, INCLIDING ALL ITEMS INCIDENTAL TO THE WORK NECESSARY FOR

ORLIGATIONS TO THE "ARCHITECT"

AHLE THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

NRTI - NATIONALLY RECOGNIZED TESTING LARGRATORY, AS DEFINED AND

DRAWINGS ARE SCHEMATIC IN NATURE, SHOW THE VARIOUS THE SPECIFICATIONS AND DEARMINGS FOR THE WORK DESCRIBED IN ONE.
SHALL BE PROVIDED AS IF CESCRIBED IN BOTH. IN THE EVENT OF
DISCREPANCES, NOTIFY THE ENGINEER AND REQUEST CLARFICATION
PRIOR TO PROCEEDING WITH THE WORK WOULDST CLARFICATION
PRIOR TO PROVIDE THE WORK WOULDST CLARFICATION
PRIOR TO THE WORK WOULDST CLARFICATION
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COMPLY, AT A MINIMUM, NATIONAL FIRE PROTECTION ASSOCIATION COMPLY, AT A MINNIUM, MATIONAL FIRE PROTECTION ASSOCIATION (INPA) CODES, STIDE AND LOCAL BUILDING CODES, MID ALL OTHER APPLICABLE CODES AUTO ALL OTHER APPLICABLE CODES OF A DEPOSIT, AND MATERIALS. ADDITIONALLY, COMPLY WITH RULES AND REGULATIONS OF PUBLIC UITLINES AND MINNIOPAL DEPARTMENTS AFFECTED BY CONNECTION OF SERVINGS. MUNICIPAL

WHERE CONFLICTS BETWEEN VARIOUS CODES, ORDINANCES, RULES, AND WHERE CONTILIES BE THEN YARROS CODES, ORDINANCES, MUES, AND RECOLLATIONS DOST, COMPLY WITH THE MOST STRINGCOTT. WEREVER REQUIREMENTS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, EXCEED THOSE OF THE ABOVE FIELS, THE RECOVERATIONS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, STALL COVER, CODE CONFIDENCES AT A MINIMUM, IS MANASTORY. COSTRUE MOTHING IN THESE CONSTRUCTION DOCUMENTS AS PERMITTING WORK NOT IN COMPULACE, AT A MINIMUM, WITH THESE CODES.

BRING ALL CONFLICTS OBSERVED BETWEEN CODES, ORDINANCES, RULES, 1 BRIDA ALL CONFOLTS USSETTED BETWEEN COLORS, GONDANCES, ROLLS,
FOR FINAL RESOLUTION. CONTRACTOR WILL BE HELD RESPONSIBLE FOR
ANY VOLATION OF THE LAW.

16A 1-8 MANUFACTURERS

IN OTHER ARTICLES WHERE LISTS OF MANUFACTURERS ARE TRODUCED, THE FOLLOWING REQUIREMENTS APPLY TO PRODUCT

WHERE A LIST IS PROVIDED. MANUFACTURERS ARE LISTED

- THE PROJECT NAME.
 APPLICABLE SPECIFICATION SECTION AND PARAGRAPH.
 THE SIBMITTAL DATE.
 THE CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT THE
 STAMPED PRIMINDS HAVE BEEN CHECKED BY THE CONTRACTOR
 COMPLY WITH THE DRAWNGS AND SPECIFICATIONS, AND HAVE
 BEEN COORDINATED WITH OTHER TRADES.

TUINISH "TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT TO I MANSMIT SUBMITTALS AS EARLY AS ELOURDED TO SUPPORT THE PROJECT SCHEDULE. ALLOW FOR TWO MEXES ENGINEER REVIEW TIME, PLUS MAULING TIME, PULIS A DUPLICATION OF THIS TIME FOR RESUBMITTALS, IF REQUIRED. THE TRANSMIT SUBMITTALS, AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED AND BEFORE CONSTRUCTION STARTS. THE ENGINEER'S SUBMITTAL REVIEWS MILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR OMITTING COMPONENTS OR FITTINGS OR COORDINATING ITEMS WITH ACTUAL BUILDING

16A 1-10 ADJUSTING ALIGNING AND TESTING

ADJUST, AUGN, AND TEST ALL ELECTRICAL EQUIPMENT ON THIS

TEST ALL SYSTEMS AND EQUIPMENT ACCORDING TO THE REQUIREMENTS IN NETA ATS (LATEST EDITION).

MAINTAIN THE FOLLOWING ON THE PROJECT PREMISES AT ALL TIMES: A TRUE RINS READING VOLTMETER, A TRUE RINS READING AMMETER, AND A MECOHUMETER INSULATION RESISTANCE TESTER. PROVIDE TEST DATE READINGS AS REQUESTED OR AS REQUIRED BY THE ENGINEER.

16A 1-11 OPERATION AND MAINTENANCE INSTRUCTIONS

MANUAL FORM INCLUDING APPROVED COPIES OF THE FOLLOWING. MANUAL FORM INCOME APPROVED THE OPENS OF THE POLICIANS, 188. 2-3 INSCRIBLED AND THE REVISED IF NECESSARY TO SHOW SYSTEM AND COMPANY TO A COMPANY TO

- MANUFACTURERS' CATALOG AND PRODUCT-DATE SHEETS WRING DIAGRAIS
 MANITERANCE INSTRUCTIONS
 OFERATING BIRSTRUCTIONS
 PARTS LISTS
 TEST REPORTS AS DEFINED IN NETA ATS FOR THE SYSTEMS AND

- G. NAMES, ADDRESSES, TELEPHONE NUMBERS, AND E-MAIL ADDRESSES OF LOCAL CONTACTS FOR WARRANTY SERVICES

SUBMIT MANUALS PRIOR TO REQUESTING THE FINAL PUNCH LIST AND BEFORE ANY REQUESTS FOR SUBSTANTIAL COMPLETION. ALSO PROVIDE ADEQUATE VERBAL MISTRUCTIONS OF SYSTEM OPERATIONS TO OWNER'S REPRESENTATIVE AT THE COMPLETION OF, AND BEFORE FINAL ACCEPTANCE OF, THE WORK.

16A 1-12 SYSTEM START UP

PRIOR TO STARTING UP THE ELECTRICAL SYSTEMS, CHECK ALL COMPONENTS AND DEVICES, LUBRICATE ITEMS ACCORDINGLY, AND TICHTEN SCREWS AND BOLTS FOR CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE—TIGHTENIN VALUES. IF MANUFACTURE'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A. ADJUST TAPS ON EACH TRANSFORMER THOSE SPECIFED IN UL 486A. ADJIST TAPS ON EACH TRANSFORMER FOR RATED SECONDARY VOLTAGE. CHECK AND RECORD BUILDING'S SERVICE ENTRANCE VOLTAGE, GROUNDING CONDITIONS, GROUNDING ENSISTANCE, AND PROPER PIRASING. BRANCH ALICE ALL SINGLE—PHASE LOADS AT EACH PANEIBOARD, REDISTRIBUTING BRANCH GROUNT CONNECTIONS UNTIL BRANCH SEACHEVED. DO NOT TYPE IP FINAL PANEIBOARD DIRECTORES UNTIL ALL RE-BRANCHIO AND REDISTRIBUTION OF GROUNTS ARE COMPLETE. REPLACE ALL BURRED—OUT LAWFS AND LAWFS USED FOR TEMPORARY CONSTRUCTION LICHTING IN PERMANENT LICHT FIXTURES. AFTER ALL SYSTEMS HAVE BEEN INSPECTED AND ADJUSTED, CONFIRM ALL OPERATING FEATURES REQUIRED BY THE DRAWNES AND SPECIFICATIONS AND MAKE FINAL ADJUSTMENTS AS NECESSARY.

IDAL_ITELS_INDODOCOLOSS.

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERSON OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN WARRANTICHON DOCUMENTS OR MANUFACTURER'S STANDARD IN CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD IN CONSTRUCT OF WARRANTY EXPECTED 19 MONTHS. REMEDY ALL DEFECTS, OCCURRING INSULATED GROUND WIRE WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1. ALSO WARRANT THE FOLLOWING

THE ABOVE WARRANTIES SHALL INCLUDE LABOR AND MATERIAL

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

EXCAVATE ALL MATERIALS ENCOUNTERED INCLUDING ROCK REQUIRED EXCAVATE ALL MATERIALS ENCOUNTERED INCLUDING ROCK REQUIRED FOR WORK UNDER THIS SECTION. BACKFILL LAI TERBOINES, COMPACTING IN 6-INCH LAYERS. TEST UNDERGROUND SYSTEMS, CONFIRM WATERTIGHT INTEGRITY, AND OSTAIN ACCEPTANCE FROM PROMISES ALL EXCESS MATERIAL NOT USED IN BACKFILLING. REPAR ALL STREETS, SOUPMAINS, DOWNEY, PANNO AND OTHER FACULIES DAMAGED. REPAR MATERIALS SHALL BENEFALLY MATCH EXISTING CONSTRUCTION. ALL BACKFILLING AND REPARING SHALL MEET ALL REQUIREMENTS OF THE OWNEY, CITY AND OTHERS HAVING JURISDICTION. REPAIR WORK SHALL BET CLASS. CONFORM TO ALL RECORDING OUTPOST CLASS. CONFORM TO ALL REQUIREMENTS OF THESE SPECIFICATIONS.

IN ADDITION TO THE REQUIREMENTS OF DIVISION 1, REMOVE FROM THE PREMISES DIRT AND REPLISE RESULTING FROM THE PERFORMANCE OF THE ELECTRICAL WORK, AS REQUIRED, TO PREVENT ACCUMULATION, COOPERATE IN MAINTAINING REASONABLY CLEAN PREMISES AT ALL THES. IMAGENTAL PRIOR TO FRAM INSPECTION, MAKE A FINAL CLEANUP OF DIRT AND REFUSE RESULTING FROM THE WORK, CLEAN STANDARD AND REFUSE RESULTING FROM THE WORK, CLEAN STANDARD AND REFUSE RESULTING FROM THE WORK, CLEAN STANDARD AND REFUSED RESULT INSPECTION FROM THE WORK. ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THIS DIVISION.
REMOVE DIRT, DUST, PLASTER, STAINS AND FOREIGN MATTER FROM ALL
SURFACES. TOUGH UP AND RESTORE ALL DAMAGED FINISHES TO THER

16A 2-3 CUTTING AND PATCHING

FOLLOWING THE REQUIREMENTS IN DIMSON 1, CUT WALLS, FLOORS, CEILINGS, AND OTHER PORTIONS OF THE FACILITY AS REQUIRED TO PERFORM WORK UNDER THIS DIMSON. OBTAIN PERMISSION OF THE ENGINEER, OWNER, OR BOTH, BEFORE DOING ANY CUTTING. CUT ALL HOLDS AS SMALL AS POSSIBLE. PATCH WALLS, FLOORS, AND OTHER PORTIONS OF THE FACILITY AS REQUIRED BY WORK UNDER THIS DIMSON. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL HOLD THE ORIGINAL MATERIAL AND CONSTRUCTION, INCLUDING FIRE RATINGS IF APPLICABLE.

COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH OTHER DIVISIONS.
CONCEAL ALL RACEWAYS EXCEPT IN UNFINISHED AREAS ANS WHERE

16A 2-5 RACEWAYS

- A. ELECTRICAL METALLIC TUBING AND FITTINGS (EMT): ANSI C80.3,
- B. FLEXBLE METAL CONDUIT (FMC): ZINC-COATED STEEL, UL 1 C. INTERMEDIATE METAL CONDUIT (IMC): HOT-DIPPED GALVANIZED RIGID STEEL CONDUIT: ANSI C80.6, UL 1242
- D. LIQUIDTICHT FLEXIBLE METAL CONDUIT (LFMC): FLEXIBLE STEEL CONDUIT WITH PVC JACKET: UL 360 E. RIGID METAL CONDUIT (RMC):

 1. HOT -DIP GALVANIZED RIGID STEEL CONDUIT
- (CRS): ANSI C80.1 UL 6
- 2. RIGID ALLIMINUM CONDUIT (RAC): ANSI C80.5, UL 6A PLASTIC-COATED IMC, RMC, AND FITTINGS: NEWA RN 1, UL USTED.

 C. IMC AND RMC FITTINGS: NEMA FB 1; COMPATIBLE WITH CONDUIT TYPE AND MATERIAL, UL USTED

NON-WETALLIC CONDUIT AND TUBING:

A. ELECTRICAL NONWETALLIC TUBING (ENT): NEWA TC 13, UL LISTED B. LIQUIDIGHT FLEXIBLE NONWETALLIC CONDUIT (LTNC): UL 1660 C. RIGD NONWETALLIC CONDUIT (RNC): SCHEDULE 40 PVC: NEWA

TC 2, UL 651 D. ENT AND RNC FITTINGS: NEMA TC 3, TC 6; UL 514, COMPATIBLE WITH CONDUIT/TUBING TYPE AND MATERIAL, UL LISTED

16A 2-6 RACEWAY INSTALLATION

INSTALL ALL CIRCULAR RACEWAYS CONCEALED ABOVE SUSPENDED INSTALL ALL CREDILAR PACEWAYS CONCEALED ABOVE SUSPENDED CELLINGS OR CONCEALED IN WALLS OR FLOORS WHEREVER POSSBILE EXCEPT WHERE OTHERWISE INDICATED. PROVIDE CRIS FOR ALL COMPUTS BUY UNDERGROUND, EXPOSED TO WEATHER, OR EXPOSED TO OTHER HAZARDOUS CONDITIONS. PROVIDE CRIS INSTALLED BELOW GRADE WITH A CORROSON RESTSANT BONDED-PLASTIC OR APPROVED MASTIC COATING. THIS SHALL INCLIDE THE 90-DECREE EBOW BELOW GRADE AND THE ENTIRE VERTICAL TRANSITION TO ABOVE GRADE. ALL OTHER PACEWAY MAY BE ENT WHERE APPROVED BY LOCAL CODE. USE COMPRESSION TYPE FITTINGS FOR BLT, MRIT ALL INTINISS ULL USITED FOR THE ENVIRONMENT IN WHICH THEY ARE USED. AT CONTRACTOR'S OPTION, PVC CONDUIT MAY BE USED UNDERGROUN
MIERE PERMITTED BY LOCAL CODE AND WHERE NOT SPECIFICALLY RESTRICTED BY THESE DOCUMENTS.

USE ONLY METAL RACEWAYS FOR ALL POWER WIRING FROM THE OUTPUT OF VARIABLE FREQUENCY DRIVES TO THEIR RESPECTIVE

INSTALL RACEWAYS PARALLEL TO BUILDING LINES.

INSTALL RACEWAYS TO REQUIREMENTS OF STRUCTURE AND TO REQUIREMENTS OF ALL OTHER WORK ON THE PROJECT. INSTALL RACEWAY TO GEAR ALL OPENINGS OF SPRESSIONS, PEPES, DUCTS, REPREGROUDS SEEL, AND OTHER IMMOVABLE DISTACLES. INSTALL RACEWAYS SET IN FORMS FOR CONCRETE STRUCTURE IN SUCH A MAINER THAT INSTALLATION WILL NOT AFFECT THE STRUCTURE OF STRUCTURE. EXCEPT WHERE APPROVED IN WRITING BY THE DIGINEER, INSTALL NO RACEWAY IN SALE—ON-GRADE. LOCATE RACEWAY BELOW GRANULAR FILL BELOW SLABS—ON-GRADE.

Install raceways continuous between connections to outlets, Boxes and cabinets with a innimum possible number of bends and not more than the equivalent of four 90—degree bends between connections. Use manufactured elboms for all 45— BETWEN CONNECTIONS. USE MANUFACTURED ELBOWS FOR ALL 45-AND 90- DECREE BONDS, UNLESS APPROVED BY THE ENGINEER IN ADVANCE. MAKE OTHER BENDS SMOOTH AND EVEN AND WITHOUT FLATIENING RACKBAY OF FLANON GALVANARION OF DEMAIL. RADII BENDS SHALL BE AS LONG AS POSSIBLE AND NEVER SHORTER THAN THE CORRESPONDING TRADE ELBOW. USE LONG RADIUS ELBOWS WHERE NECESSARY, NDICATED, OR BOTH.

SECURELY FASTEN RACEWAYS IN PLACE WITH APPROVED STRAPS. SECURELY FASTEN RACEWAYS IN PLACE WITH APPROVED STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. ATTACH RECEWAY SUPPORTS TO THE BUILDING STRUCTURE HANG SINGE RACEWAYS FOR FEEDERS WITH MALLEABLE SPIT RING HANGERS WITH ROO AND TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ASSOCIATION OF THE PART IN CONTROLLED OF THE PART IN CONTROLLED OF THE BENDS. DO NOT SUPPORT RACEWAYS FROM SUSPENDED CEILING COMPONENTS.

REAN RACEWAY ENDS, THOROUGHLY CLEAN RACEWAYS BEFORE INSTALLATION, AND KETP CLEAN AFTER INSTALLATION, PULG OR COVER OPENINGS AND BOXES AS REQUIRED TO KETP RACEWAYS CLEAN DURING CONSTRUCTION AND FISH ALL RACEWAYS CLEAR OF OBSTRUCTION AND FISH ALL RACEWAYS CLEAR OF RESUMENCIONS BEFORE PULLING CONDUCTORS WIRES. PROVIDE RACEWAYS OF AMPLE SIZE FOR PULLING OF WIRE AND NOT SMALLER THAN CODE REQUIREMENTS AND NOT LESS THAN 1/2-INCH IN SIZE, UNLESS INDICATED OTHERWISE ON DRAWINGS.

PROTECT ALL RACEWAY INSTALLATIONS AGAINST DAMAGE DURING CONSTRUCTION. REPAIR ALL RACEWAYS DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN TO MEET ENGOKER'S APPROVAL WITHOUT ADDITIONAL COST TO THE OWNER.

ALIGN AND INSTALL TRUE AND PLUMB ALL RACEWAY TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL EQUIPMENT AND

INSTALL APPROVED EXPANSION/DEFLECTION FITTINGS WHERE RACEWAYS

INSTALL A PULL WIRE IN EACH EMPTY RACEWAY THAT IS LEFT FOR INSTALLATION OF COMDUCTORS OR CABLES UNDER DIFFER DIVISIONS OR CONTRACTS. USE POLYPROPYLENE OR MONORILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT

LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.

INSTALL CONDUIT-SEALING FITTINGS IN ALL RACEWAYS PASSING FROM

16A 2-7 BUSHINGS AND LOCKNUTS

RIGIDLY CLAMP CONDUITS ENTERING SHEET METAL BOXES TO THE BOX WITH A BUSHING AND LOCKNUT ON THE INSIDE AND A LOCKNUT ON THE OUTSIDE. CONDUIT SHALL ENTER THE BOX SOURRELY. PROVIDE BUSHINGS AND LOCKNUTS MADE OF GALVANIZED MALLEABLE IRON WITH SHARP, CLEAN-CUT THREADS. WHERE ENT ENTERS A BOX, PROVIDE TRADPORTED LUT CONSIDENCES OF LIES MISSILARED, AND CORD. APPROVED BUT COMPRESSION CONNECTORS. USE INSULATED AND/OR GROUNDING BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE, WHEN REQUIRED BY NFPA 70, OR BOTH.

16A 2-8 SUPPORT SYSTEMS

STEEL SLOTTED SUPPORT SYSTEMS (SLOTTED CHANNEL): COMPLY WITH MFMA-3. FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY: 12-GAUGE, 1-5/8-INCH BY 1-5/8-INCH; COPPER B-LINE, ERICO INTERNATIONAL CORPORATION, POWER-STRUT, THOMAS & BETTS

METALLIC COATINGS: HOT-DIP GALVANIZED AFTER FABRICATION AND APPLIED ACCORDING TO MFMA-3

NONMETALLIC COATINGS: MANUFACTURER'S STANDARD PVC, POLYURETHANE, OR POLYESTER COATING APPLIED ACCORDING TO

PAINTED COATINGS: MANUFACTURER'S STANDARD PAINTED COATING APPLIED ACCORDING TO MFMA-3.

STAINLESS STEEL: TYPE 304, PER ASTM A240.

ALUMINUM (EXTRUDED): TYPE 6063-T6, PER ASTM B221

WHERE FIELD CUTTING OF STANDARD LENGTHS OF CHANNEL ARE REQUIRED, MAKE CUTS STRAIGHT AND PERPENDICULAR TO MANUFACTURED SURFACES. FOR FIELD-CUT OR DAMAGED SURFACES OF COATED CHANNELS, DRESS CUT ENDS, DAMAGED SURFACES, OR BOTH, WITH AN ABRASIVE

MATERIAL (E.G., FILE, GRINDING STONE, OR SIMILAR) AND CLEANSER TO REMOVE OILS, RUST, SHARP EDGES AND SHARDS. FOR CHANNEL WITH A FACTORY-APPLIED COATING, RE-FINISH CUT

APPLICABLE).

PROVIDE COPPER CONDUCTORS, WITH UL LABEL, AND 600V INSULATION. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 2 PERCENT SERVICE LATERAL CONDUCTORS: TYPE THWN OR XHHW WITH STRANDED 16A 2-11 JUNCTION BOXES, PULL BOXES, CABINETS AND WIREWAYS

AS RECOMMENDED BY THE MANUFACTURER (E.G., MANUFACTURER'S TOUCH-UP PAINT OR ZINC-RICH COLD-GALVANIZING COMPOUND, AS

ALL CONDUCTORS NO. 10 AWG AND SMALLER USED FOR POWER AND ALL CONDUCTORS, NO. 10 ANG AND SMALLEY, USED FOR POWER AND LIGHTING CIRCUITS: SOUD COPPER, TYPE THIN (WET OR DAMP LOCATIONS, OR IN CONDUIT BELOW GRADE OR SLAB), TYPE THIN (ORY LOCATIONS ONLY AND ABOVE GRADE) INSULATION, OR DUAL—RATED

ALL BRANCH CIRCUIT WIRING: NOT SMALLER THAN NO. 12 AWG. IF NO CONDUCTOR SIZE IS INDICATED ON THE DRAWNINGS FOR A BRANCH CROUT, PROVIDE NO. 12 AWG CONDUCTORS AND A ZOA GROUT BREAKER.

CONDUCTORS FIELD-INSTALLED WITHIN FLUORESCENT LIGHT FIXTURE

CONTROL WRING: STRANDED COPPER CONDUCTORS, 600V INSULATION, OF THE PROPER TYPE, SIZE AND NUMBER AS REQUIRED TO ACCOMPLISH SPECIFIED FUNCTION. MINIMUM SIZE: NO. 18 AWG, UNLESS OTHERMES MOTED.

16A 2-10 WRING INSTALLATION

EXCEPT WHERE SPECIFIED OR INDICATED, FOR LOW-VOLTAGE WIRING, INSTALL ALL WIRING IN APPROVED RACEWAY AND ENCLOSURES.

SUPPORT ALL CONDUCTORS AND CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA 70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-WESH SAFETY GRIPS. INSTALL ALL CONDUCTORS AND CARLE IN RACEWAYS CONTINUOUS

INSTALL ALL COMDUCTORS AND CABLE IN PACKWAYS CONTINUOUS WINDOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES AND ENCLOSURES WITH APPROVED SOLDERLESS CONNECTORS, OR CRAIP CONNECTORS AND TERMANL BLOOKS FOR CONTINUMING, AND KEEP TO THE MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, AND JOINTS AS REQUIRED BY CODES.

ALL MATERIALS USED TO TERMINATE, SPLICE, OR TAP CONDUCTORS: DESIGNED FOR, PROPERLY SIZED FOR, AND UL LUSTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND INSTALLED IN STRICT ACORPOANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WHERE WRING IS INDICATED AS INSTALLED, BUT THE CONNECTION IS

WHERE WHONG IS INDICATED AS WISTALLED, BUT THE CONNECTION IS
HIDICATED "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS'
LEAVE A MINIMUM 3-FOOT "PIGTAIL" AT THE BOX, TAPE THE ENDS OF
THE CONDUCTORS, AND COVER THE BOX

THE NUMBER OF CONDUCTORS IN A SPECIFIC RACEWAY "HOME RUN" IS INDICATED WITH CROSS LIVES (TICK MARKS) ON EACH "CRICALIT RUN" ON THE DRAWNINGS. IN GENERAL, THE DIRECTION OF BRANCH CRICALIT "HOME RUN" ROUTING IS NOICATED ON THE DRAWNINGS COMPLETE WITH CRICALIT NUMBERS AND PANEADARD DESIGNATION. CONTINUE ALL SIJCH "HOME RUN" WRING TO THE DESIGNATED PANEABOARD, AS TAURICH "GENERAL"

RUNS" WHERE INDICATED IN THEIR ENTIRETY.

WHEN MULTIPLE HOME RUNS ARE COMBINED INTO A SINGLE RACEWAY SUCH THAT THE NUMBER OF CONDUCTORS EXCEEDS FOUR (CONDUCTOR COUNT IS MADE UP OF ANY COMBINATION OF PHASE AND NEUTRAL CONDUCTORS), THE FOLLOWING RESTRICTIONS APPLY, WHICH ARE IN ADDITION TO THOSE IN NFPA 70:

NORMAL OR NONESSENTIAL CIRCUITS

MAXIMUM OF 16 CONDUCTORS IN A SINGLE RACEWAY. FOR UP TO EIGHT CONDUCTORS IN A RACEWAY, MINIMUM RACEWAY SZE: 3/4

-INCH. FOR GREATER THAN EIGHT CONDUCTORS, MINIMUM RACEW
SZE: 1-INCH. DO NOT INSTALL ANY OTHER TYPE OF CIRCUIT IN

THE MINIMUM WIRE SIZE FOR ALL CONDUCTORS IN THIS RACEWAY: NO.10 AWG. ONLY 15A AND 20A BRANCH CIRCUIT HOMERUNS MAY BE COMBINED INTO ONE RACEWAY

DO NOT USE MULTI-CONDUCTOR CIRCUITS, WITH A SHARED NEUTRAL, FOR ANY GFCI CIRCUIT BREAKER OR RECEPTACLE CIRCUIT.

FOR BRANCH CIRCUITS FED FROM GFCI CIRCUIT BREAKERS, LIMIT THE ONE-WAY CONDUCTOR LENGTH TO 100 FEET BETWEEN THE PANELBOARD AND THE MOST REMOTE RECEPTACLE OR LOAD ON THE

WRING SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH COLOR COCE SYSTEM IN THE TABLE BELOW. IN LARGER SIZES, WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, USE WITH, PLASTIC ELECTRICAL TAPE OF THE APPROPRIATE COLOR ARQUING EACH CONDUCTOR AT ALL TERMANION POINTS, JUNCTION AND PULL BOXES.

Conductor Type



PROPERLY NUMBER ALL TERMINAL BLOCKS AND WRE TERMINALS FOR CONTROL WRING FOR DENTIFICATION WITH WAYL STICK-ON MARKETS, O BOXDING TO STRUCKER, O BOXDING JUMPER, AS APPLICABLE, IN ALL BRANCH CRCUITS AND FEEDERS, SZED IN ACCORDANCE WITH MFPA 70 TABLES 250.65 OR 250.122, NS APPLICABLE, IN ALL BRANCH CRCUITS AND THE CONTROLL OF THE PROPERTY OF THE PROPER

PROVDE JUNCTION BOXES, PULL BOXES, CABINETS AND WIREWAYS WHEREVER NECESSARY FOR PROPER INSTALLATION OF VARIOUS ELECTRICAL SYSTEMS ACCORDING TO IMPA 70 AND WHERE INDICATED ON THE DRAWINGS. SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY MPA 70, WHICHEVER IS LARGET. CONSTRUCTION SHALL BE OF A NEWA DESIGN SUITABLE FOR THE ENWIRONMENT INSTALLED.

16A 2-12 OUTLET BOXES

ALL OUTLETS INCLUDING LIGHT FIXTURE, SWITCH, RECEPTACLE, AND ALL OUTLETS INCLUDING LIGHT FIXTURE, SMITCH, RECEPTACLE, AND SMILAR OUTLETS: NATIONAL ELECTRICAL, APPLETON, STEEL CITY, RACO, OR APPROVED EQUAL, GALVANIZED STEEL KNOCKOUT BOXES, SUITABLE IN DESCN TO THE PURPOSE THEY SERVE AND THE SPACE THEY OCCUPY. SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY MFPA 70, WHICHEVER IS LARGER. SET ALL OUTLET BOXES IN WALLS, COLUMNS, FLOORS, OR CELIMOS SO THEY ARE FLUSH WITH THE HISHED SUIFFACE, ACCUPATIETY SET, AND RIGILLY SECURED IN POSITION. PROVIDE PLASTER RINGS, EXTENSION RINGS AND/OR MASONRY RINGS AS REQUIRED FOR FLUSH MOUNTING. PROVIDE APPROVED CAST OUTLET BOXES, WITH HUBS AND WEATHERPROOF COVERS, IN ALL AREAS SUBJECT TO DAMP, WET, OR HARSH

16A 2-13 OUTLET LOCATIONS

COORDINATE LOCATIONS OF OUTLET BOXES, OUTLETS ARE ONLY APPROXIMATELY LOCATED ON THE SWALL SCALE DRAWNGS. USE GREAT CARE IN THE ACTUAL LOCATION BY CONSULTING THE VARIOUS LARGE SCALE DETAILED DRAWNGS USED BY OTHER DIVISION TRADES, AND BY SECURING DEFINITE LOCATIONS FROM THE ARCHITECT.

unless noted otherwise, install wring devices as indicated below (note: all dimensions are to the bottom of the outlet box unless noted otherwise):

A VERTICALLY WITH THE GROUND SLOT MOUNTED AT THE TOP: 18 INCHES ABOVE FINISHED FLOOR

B. HORIZONTALLY, WITH NEUTRAL SLOT MOUNTED AT
THE BOTTOM: 18 INCHES ABOVE FINISHED FLOOR.

A FOR 36-INCH HIGH COUNTER TOPS: 44 INCHES ABOVE FINISHED FLOOR, VERTICALLY.
B. FOR 34-INCH HIGH COUNTER TOPS: 40 INCHES ABOVE FINISHED FLOOR, VERTICALLY

MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS AND JANITORS CLOSETS: 44 INCHES ABOVE FINISHED FLOOR, VERTICALLY.

WEATHERPROOF EXTERIOR RECEPTACLES: 24 INCHES ABOVE FINISHED GRADE OR AS INDICATED ON DRAW

5. GFCI RECEPTACLES: SANE AS CENERAL RECEPTACLES.

6. ISOLATED GROUND RECEPTACLES: SAME AS GENERAL

7. TVSS RECEPTACLES: SAME AS CENERAL RECEPTACLES.

CONCRETE BLOCK WALLS: DIMENSIONS ABOVE MAY BE ADJUSTED SUBHILY, AS REQUIRED TO COMPENSATE FOR VAIABLE JOINT DIMENSIONS, SUCH THAT BOTTOM OR TOP OF BOXES, AS APPLICABLE, ARE AT BLOCK JOINTS.

SWITCHES:

1. GENERAL: 44 INCHES ABOVE FINISHED FLOOR.

2. ABOVE COUNTERS: SAME AS FOR RECEPTACLES.

3. CONCRETE BLOCK WALLS: 40 INCHES ABOVE FINISHED PLOOR (DIMENSIONS MAY BE ADJUSTED SUBSTITUTE)
REQUIRED TO COMPENSATE FOR VARIABLE JOINT
DIMENSIONS, SUCH THAT BOTTOM OF BOXES ARE AT

TELEPHONE/DATA OUTLET BOXES:

- GENERAL: MATCH MOUNTING HEIGHT OF ADJACENT WIRING DEVICE LISTED ABOVE.
- 2. WALL-MOUNTED TELEPHONE: 40 INCHES ABOVE FINISHED

16A 2-15 WRING DEVICES

PROVIDE THE FOLLOWING WIRING DEVICES WHERE SHOWN ON DRAWINGS PROVIDE THE FOLLOWING WIRING DEVICES WHERE SHORM ON DRAWNOS OR REQUIRED. MINOR CHANGES RELATIVE TO THE LOCATION OF ELECTRICAL EQUIPMENT MAY BE MADE TO COMPLY WITH STRUCTURAL AND BULDING REQUIREMENTS AS DETERMINED IN THE COURSE CONSTRUCTION. PROVIDE ALL WIRING DEVICES OF THE SAME MANUFACTURER AND NOT MIXED ON THE PROJECT, TO THE MAXIMUM EXTENT POSSIBLE. PROVIDE THE COLOR OF TOGGLES AND RECEPTACLES AS REQUIESTED BY THE ENGINEER.

		Pons &		Wiring
pe of Device	Hubbel	Seymour	Levillon	
implex Receptacle	HEL 5361	5361	5361	5361
uplex Receptade	HEL 5362	5362	5362	5362
ngle Pole Switch	HBL1221	PS 20 ACI	1221-2	2221
ree-way Sellich	HBL1223	PS 20 AC3	1223-2	2223

16A 2-16 SMTCH AND OUTLET COVER PLATES

SWITCH AND OUTLET PLATES: COLORED, SMOOTH NYLON; BY THE SAME MANUFACTURER AS THE WIRNS DEVICES, WHEREVER POSSIBLE. VERFY DESRED MATERIALS AND COLORS WITH ENGINEER BEFORE INSTILLATION. SWITCH PLATES IN UNFINISHED ROOMS AND SPACES: STAMPED STEEL, CADMININ PLATED, INSTALL GROUPS OF SWITCHES UNDER ONE GANCED-PLATE, USUALLY HORIZONTALLY, OR, WHERE REQUIRED BY DETAILS, WETICALLY. SET ALL COVER PLATES PLUMB, PARALLEI, AND FRISHED FLUSH WITH THE WALL.

16A 2-17 WEATHERPROOF COVER PLATES

PROVIDE GFCI RECEPTACLES FOR DESIGNATED WEATHERPROOF RECEPTACLES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. OR UNATTENDED, WET LOCATIONS: IN-USE NEMA 3R, UL-LABELED

FOR ATTEMPED WET OR DAMP LOCATIONS: WEATHERPROOF COVER FOR ATTENDED ME TO MANY DOCUMENTS: MEATHER/MONE COVER PLATES, UL-LISTED FOR WET LOCATIONS WITH DOVER(S) CLOSED, DIE-CAST ALUMINUM OR TYPE 302 STANLESS STEEL; SINGLE-COVER FOR SMITCHES, AND VERTICALLY MOUNTED RECEPTACLES; DOUBLE-COVER FOR HORIZONTALLY MOUNTED RECEPTACLES; SELF-CLOSING COVERS.

COVER PLATES: BY THE SAME MANUFACTURER AS THE WRING DEMOCES; COMPLYING WITH NFPA 70 406.8 (A) OR (B) REQUIREMENTS FOR ATTENDED OR UNATTENDED USE AS APPLICABLE.

16A 2-18 FIRESTOPPING FLOOR AND WALL PENETRATIONS

FIRE-RESISTANT PENETRATION SEALANTS: TWO-PART. FREE-RESSIANT PENE IRAIION SEALANTS: ING-PART, FOADED-IN-PACE, SILOOME SEALANT FORWILDED FOR USE IN THROUGH-PENETRATION FREE-STOPPING AROUND CABLES, RACEWAYS, AND CABLE TARY PENETRATIONS THROUGH FREE FARTED WALLS AND FLOORS. SEALANTS AND ACCESSORIES SHALL HAVE FIRE-RESSTANCE RATINGS BIDICATED, AND STACKHOST OF THE STORY DETRICAL PROPERTY. ASSEMBLIES IN ACCORDANCE WITH ASTM E 814, BY UNDERWRITERS' LABORATORIES, INC., OR OTHER NRTL ACCEPTABLE TO AHJ.

PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING.

16A 2-19 EQUIPMENT IDENTIFICATION



GATEWAY SHOPPING CTR 17705 140TH AVE. N.E. WOODINVILLE, WA 98072 SPACE # A-18

STORE 408

Date

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EMAIL: jcraia oroadrunner.com www.russellarchitects.com

FOR IMPORMATION

ONLY

"3M FIRE STOP FOAM (2001, " 3M CORP.
"METACAULK 835+, " RECTORSEAL
"SPECSEAL PENSIL 200 SILICONE FOAM," SPECIFY FIRE STOP SYSTEM," UNITED STATES GYPSUM

PROVIDE EQUIPMENT IDENTIFICATION NAMEPLATES ON ALL PANELBOARDS, SWITCHES, AND WHERE INDICATED ON THE DRAWINGS.

NAMEPLATES:

A. ENGRAYED, CONTRASTING COLOR PRESENTAYER, LAMINATED PLASTIC INDICATING THE MANGFOY THE COUPLENT, LOAD, OR CIRCUIT AS DESIGNATED MATHER PRINKINGS AND IN THE SPECIFICATIONS.

B. FIELD-APPLIED PERMANENT EPOXY ADHESIVE, COMPATIBLE WITH THE EQUIPMENT INNISK ATTACHMENT METHOD SHALL BE ACCEPTURED. TRINISK ATTACHMENT METHOD SHALL BE ACCEPTURED. THE MANUFACTURERS OF THE EQUIPMENT TO WHICH THE MANUFACTURERS OF THE EQUIPMENT TO WHICH THE MANUFACTURERS OF THE EQUIPMENT TO COLORS BLOOK BACKGROUND WITH WHITE LETTERS FOR NORMAL PRINCE, LETTER HEIGHT. 1/2-INCH MINIMUM.

HARRISON FRENCI

Zumiez Project Number 1005.06 stacta Project No. _ ELECTRICAL SPECS

Xwwn By : WWB rected By: RMJ **E4** 408