

INTERIOR FIT-OUT
FOR
Dr. Sadek
AT
479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NEW JERSEY 07746

GENERAL CONDITIONS & SPECIFICATIONS

GENERAL NOTES

- THE CONTRACT DRAWINGS AND SPECIFICATIONS HAVE BEEN CAREFULLY CHECKED BY THE ARCHITECT TO PROVIDE CONTRACT DOCUMENTS WHICH CLEARLY DEFINE THE RESULTS THE CONTRACTOR IS EXPECTED TO ACHIEVE. PRIOR TO COMMENCEMENT OF CONTRACTED WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, OMISSIONS, OR LACK OF DEFINITION BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR BETWEEN THE CONTRACT DOCUMENT AND EXISTING SITE CONDITIONS IN ORDER TO RESOLVE ANY PROBLEM. THE COMMENCEMENT OF CONTRACTED WORK BY THE CONTRACTOR WILL BE DEEMED AS ACCEPTANCE OF THE CONTRACT DOCUMENTS AS BEING TRUE AND CORRECT AND NO REQUESTS FOR ADDITIONAL PAYMENT DUE TO CONFLICTS, OMISSIONS, OR LACK OF DEFINITION WILL BE ACCEPTED. ANY REVISED DRAWING OR OTHER DOCUMENT ISSUED TO THE CONTRACTOR SHALL NOT BE EXECUTED UNLESS ACCOMPANIED BY A LETTER OF AUTHORIZATION TO PROCEED. IN CASES WHERE COST ESTIMATES ARE REQUESTED FOR REVISIONS, THEY WILL BE PREPARED AND SUBMITTED PROMPTLY IN ORDER THAT THEY DO NOT UNDULY AFFECT THE PROGRESS OF WORK.
- THE GENERAL CONTRACTOR HEREBY INDEMNIFIES AND AGREES TO DEFEND AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY AND ALL SUITS, CLAIMS, ACTIONS, LOSS, COST OR EXPENSE (INCLUDING CLAIMS FOR WORKMEN'S COMPENSATION BASED ON PERSONAL INJURY OR PROPERTY DAMAGE CAUSED IN THE PERFORMANCE OF THIS WORK BY THE GENERAL CONTRACTOR, HIS EMPLOYEES, AGENTS, SERVANTS, OR SUBCONTRACTORS ENGAGED BY HIM).
- INSURANCE BY GENERAL CONTRACTOR SHALL BE AS FOLLOWS: COMPREHENSIVE GENERAL LIABILITY (BI AND PD COMBINED) LIMIT \$1,000,000.00 PER OCCURRENCE.
EXCESS LIABILITY (BI AND PD COMBINED) LIMIT AMOUNT OF \$3,000,000.00 WITH COMPANIES AND FORMS AGGREGATE.
WORKER'S COMPENSATION AND LIABILITY STATUTORY.
BEFORE COMMENCEMENT OF WORK, CERTIFICATES OF INSURANCE SHALL BE FURNISHED TO THE OWNER, AND IF REQUESTED, THE ORIGINAL POLICIES. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS MAINTAIN INSURANCE AT ALL TIMES WITH COMPANIES AND ON FORMS SATISFACTORY TO ARCHITECTS. TEN DAY ADVANCE WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER BY THE INSURANCE CARRIER OF ANY CHANGE OR CANCELLATION OF COVERAGE SET FORTH ABOVE.
- THE CONTRACTOR SHALL COMPLY WITH THE LOCAL BUILDING CODE AND REGULATIONS, LATEST EDITIONS, ALONG WITH ALL APPROPRIATE MUNICIPAL AND REGULATORY AGENCIES CODES AND REQUIREMENTS AND LANDLORD REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION DEPARTMENT FORMS, DOCUMENTS, FEES AND THE SUBSEQUENT FILING THERE OF, INCLUDING OBTAINING ALL APPROVALS REQUIRED PERMITS, EQUIPMENT USE PERMITS, CONTROLLED INSPECTIONS & FINAL SIGN OFFS.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL JOB CONDITIONS, DIMENSIONS, AND DETAILS PRIOR TO SUBMITTING ANY BIDS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK, PRIOR TO THE SUBMISSION OF BIDS.
- DRAWINGS ARE NOT TO BE SCALED; DIMENSIONS GOVERN. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE PLANS.
- ALL DIMENSIONS ARE FROM FINISH SURFACE TO FINISH SURFACE, OR FROM FACE OF CONVECTOR TO FINISH SURFACE.
- THE GENERAL CONTRACTOR SHALL COMPLY WITH THE LOCAL RULES AS TO THE HOURS OF OPERATION, AVAILABILITY OF HANDLING MATERIALS, EQUIPMENT AND DEBRIS TO AVOID CONFLICT AND INTERFERENCE WITH BUILDING OPERATIONS. DEMOLITION MUST BE PERFORMED DURING HOURS SPECIFIED BY THE OWNER. THE DELIVERY OF MATERIALS, EQUIPMENT AND DEBRIS MUST BE ARRANGED TO AVOID ANY INCONVENIENCE AND ANNOYANCE.
- THE GENERAL CONTRACTOR SHALL MAKE AVAILABLE A MINIMUM OF THREE (3) FIRE EXTINGUISHERS PER FLOOR OR MORE, IF REQUIRED BY THE LOCAL ORDINANCE. SAID FIRE EXTINGUISHERS SHALL BE KEPT AND MAINTAINED ON THE PREMISES BY OWNER'S CONTRACTOR FOR THE DURATION OF THE ALTERATION.
- ALL MATERIALS AS WELL AS METHODS AND PROCESSES USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO THE STANDARD OF THE LOCAL CODE AND THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH SUCH REQUIREMENTS.
- CONTRACTOR TO CONTROL CLEANING TO PREVENT DIRT OF DUST FROM LEAVING THE JOB SITE AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT.

- NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT FIRST INFORMING THE ARCHITECT. SUBMIT SUBSTITUTE MATERIAL SPECIFICATIONS AND SAMPLES FOR APPROVAL, IN WRITING, PRIOR TO COMMENCEMENT OF WORK.
- THE GENERAL CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS, COMPLETE WITH MANUFACTURER'S EQUIPMENT CUTS, FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL SHALL BE IN THE FORM OF: (A) REPRODUCIBLE SEPIA TRANSPARENCY (POSITIVE SIDE UP); AND (B) 5 BLACK AND WHITE PRINTS OF EACH DRAWING. THE CONTRACTOR WILL NOT COMMENCE FABRICATION BEFORE RECEIVING THE APPROVAL OF THE ARCHITECT. THE FOLLOWING SUBMITTALS ARE REQUIRED:
 - CABINETRY
 - FINISHES
 - PAINT SAMPLES (2 REQUIRED, EACH COLORED)
 - WALL COVERING (2 REQUIRED)
 - MECHANICAL
 - SHOP DRAWINGS-AC UNITS, GRILLES, LOUVERS, DUCTWORK, PLUMBING, FIRE PROTECTION
 - SUPPLEMENTAL EQUIPMENT CATALOG CUTS WITH DATA SPECIFIC TO THIS PROJECT FLAGGED IN AN APPROPRIATE MANNER.
 - ELECTRICAL
 - FIXTURE CUTS
 - ELECTRICAL CONTROLS AND DEVICES WITH DATA SPECIFIC TO THIS PROJECT FLAGGED IN AN APPROPRIATE MANNER.
- APPROVAL OF SHOP DRAWINGS SHALL INDICATE ONLY THAT SUCH DRAWINGS GENERALLY EXPRESS THE INTENT OF THE CONTRACT DOCUMENTS AND SHALL NEITHER BE CONSTRUED AS A COMPLETE CHECK NOR RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN NOTE ABOVE.
- THE GENERAL CONTRACTOR SHALL MAKE GOOD, AT HIS OWN EXPENSE, ANY DAMAGE TO EXISTING AREAS NOT DESIGNATED FOR REFURBISHMENT.
- GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS, WHETHER HIS OWN, OR THOSE ON SEPARATE CONTRACT LET BY THE OWNER, PRIOR TO COMMENCING WORK. THE GENERAL CONTRACTOR SHALL PROVIDE A WORK SCHEDULE TO ARCHITECT SHOWING ESTIMATED COMMENCEMENT AND COMPLETION DATES OF EACH TRADE. THE CONTRACTOR SHALL BE RESPONSIBLE TO INDICATE ANY CONFLICTS OR OMISSIONS.
- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK SHOWN ON THESE DRAWINGS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.
- THE AIA GENERAL CONDITIONS, LATEST EDITION, (DOCUMENT A201) SHALL BE BINDING ON THIS CONTRACT.
- THE WORK REQUIRED UNDER THIS CONTRACT SHALL BE PERFORMED ON STRAIGHT TIME, UNLESS OTHERWISE NOTED BY OTHER CLAUSES OF THIS CONTRACT OR AS DIRECTED BY THE CLIENT, ENGINEER, OR ARCHITECT. SHUTDOWN COORDINATION AS REQUIRED BY THE BUILDING LANDLORD.
- NO EXTRAS WILL BE PERMITTED UNLESS SUBMITTED IN WRITING BY THE CONTRACTOR AND APPROVED BY THE TENANT AND THE ARCHITECT.
- A COPY OF THE LATEST SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE ARCHITECT.
- ALL REQUISITIONS FOR PAYMENTS FROM THE CONTRACTOR TO THE TENANT SHALL BE SUBMITTED TO THE ARCHITECT ON AIA FORM G122, LATEST EDITION, FOR PRIOR APPROVAL.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR UNLESS OTHERWISE NOTED. ALL CONTRACTORS SHALL SUBMIT IN WRITING THIS GUARANTEE TO THE CLIENT. THE GUARANTEE PERIOD IS TO BEGIN WHEN THE CLIENT OCCUPIES THE PREMISES.
- THE CLIENT'S ARCHITECT (MSA) OR HIS REPRESENTATIVES SHALL HAVE ACCESS TO THE PREMISES AT ALL TIMES, AND TO THE FACTORY OR SHOP OF ANY OF THE SUBCONTRACTORS. ANY INTERIOR MATERIAL OR WORKMANSHIP SHALL BE RECONSTRUCTED AS APPROVED BY THE ARCHITECT & THE TENANT AT THE CONTRACTOR'S SOLE EXPENSE.
- WHATEVER WORK IS DONE WHERE NO DEFINITE DETAILS OR INSTRUCTIONS ARE GIVEN, THE CONTRACTOR OR SUBCONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE HIGHEST STANDARDS OF WORKMANSHIP AND MATERIALS AS DEFINED BY THE GOVERNING TRADE ORGANIZATION.
- UPON COMPLETION OF WORK, THE CONTRACTOR WILL PROVIDE REPRODUCIBLE "AS-BUILT" TO SHOW ALL MODIFICATIONS OF THE CONTRACT DOCUMENTS, AS WELL AS ALL LIGHTING AND POWER CIRCUITRY (INCLUDING BREAKER NUMBERS) AS ACTUALLY INSTALLED.

- ALL MATERIALS SHALL, WHEN APPLICABLE AND REQUIRED, COMPLY WITH THE DIRECTIVES OF THE LOCAL BOARD OF STANDARDS AND APPEALS (B.S.A.), AND THE MANUFACTURER SHALL BE ABLE TO PRODUCE A LOCAL B.S.A. NUMBER ON DEMAND.
- ALL MATERIALS SHALL BE NEW AND SHALL BE DELIVERED TO THE SITE IN THEIR ORIGINAL PACKAGING.
- NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT FIRST INFORMING THE ARCHITECT. SUBMIT SUBSTITUTE MATERIAL SPECIFICATIONS AND SAMPLES FOR APPROVAL, IN WRITING, PRIOR TO COMMENCEMENT OF WORK.
- G.C. TO OBTAIN ALL PERMITS, SIGN-OFFS AND EQUIPMENT USE PERMITS.
- ALL WORK SHALL BE ON STRAIGHT TIME. WORK WHICH IS REQUIRED BY THE BUILDING OWNER/LANDLORD TO BE PERFORMED AFTER HOURS SHALL BE COORDINATED WITH TENANTS. ELECTRICAL TIE-INS AND DRILLING TO BE COORDINATED WITH OWNER AND DONE AFTER HOURS.
- PREMISES TO BE FINE CLEANED PRIOR TO TURNING OVER TO OWNER.
- G.C. TO BE RESPONSIBLE FOR SECURITY ALARM AND DEVICE WIRING. G.C. TO BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY VENDOR. ANY DOOR CONTACTS, CAMERAS, AND OTHER SECURITY DEVICES TO BE PROVIDED BY VENDOR.

LIST OF DRAWINGS

ARCHITECTURAL

- | | |
|--------|--------------------------------|
| T-100 | TITLE SHEET |
| AS-100 | ARCHITECTURAL SPECIFICATIONS |
| A-100 | CONSTRUCTION PLAN |
| A-101 | REFLECTED CEILING PLAN |
| A-102 | FINISH PLAN |
| A-200 | INTERIOR ELEVATIONS & DETAILS |
| A-201 | INTERIOR ELEVATIONS & DETAILS |
| A-202 | SCHEDULES & DETAILS |
| M-1 | MECHANICAL PLAN |
| M-2 | MECHANICAL DETAILS & SCHEDULES |
| M-3 | MECHANICAL SPECS |
| P-100 | PLUMBING PLAN & DETAILS |
| SP-100 | SPRINKLER PLAN & DETAILS |
| E-100 | ELECTRICAL PLAN |
| FA-100 | FIRE ALARM PLAN |
| A-400 | ADA PLANS & DETAILS |

BUILDING INFORMATION

479 ROUTE 520, SUITE A203 MARLBORO TOWNSHIP, NJ 07746
BLOCK 213
LOTS 80.1
ZONE OPT 2
FLOOR: 2ND FL.

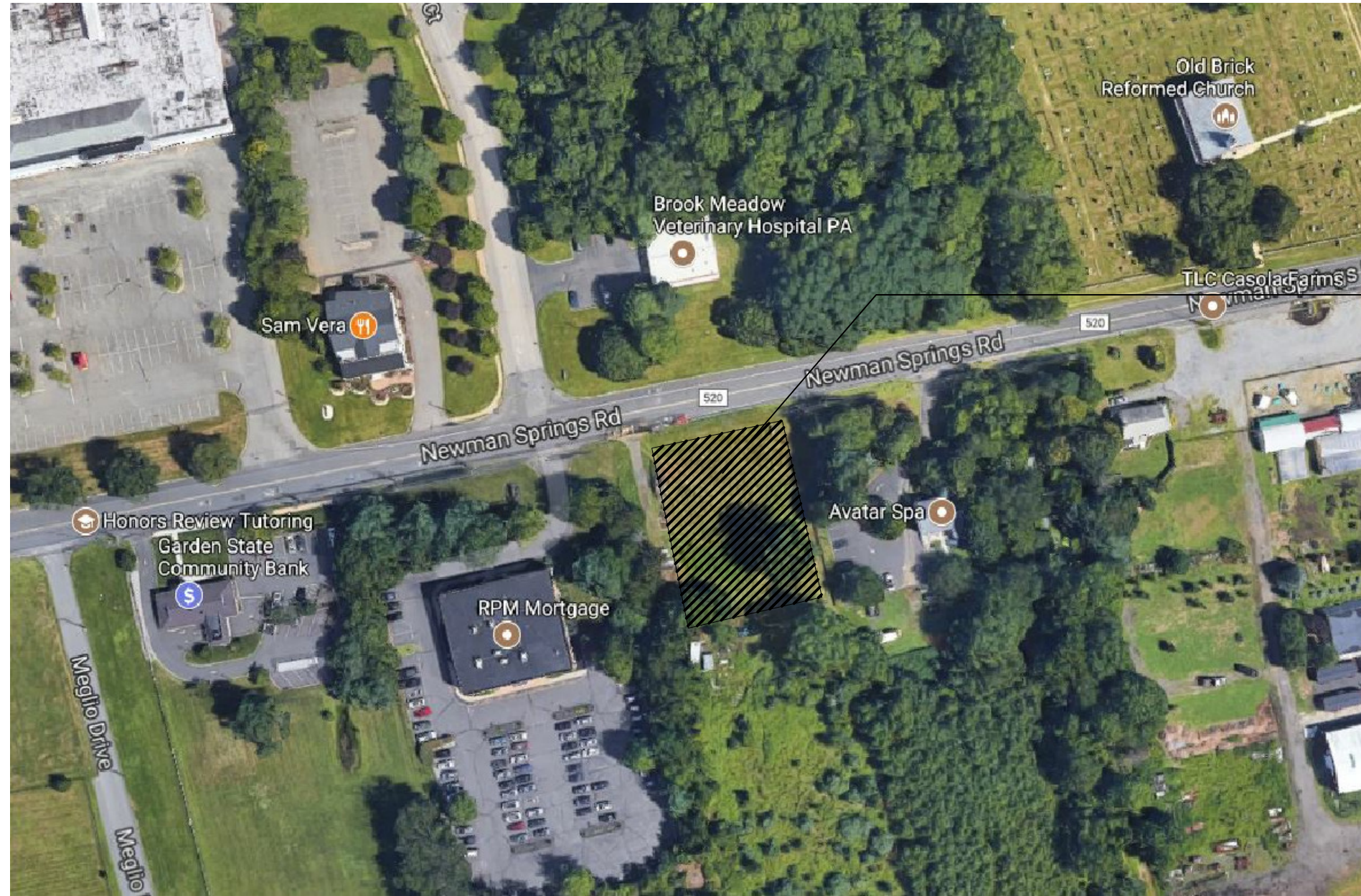
BUILDING CODE COMPLIANCE

- OCCUPANCY CLASSIFICATION: "B" BUSINESS (NO CHANGE)
- OCCUPANCY LOAD PER TABLE 1004.1.1:
1 PERSON / 100 SF = 163 SF / 100' = 14 PERSONS
MINIMUM EGRESS WIDTH PER SECTION 1005.1:
0.2 INCHES PER OCCUPANT; 0.2 INCHES X 14 OCCUPANTS = 4 INCHES MINIMUM
TOTAL INCHES PROVIDED WITH 2 EXITS: 12 INCHES = OK

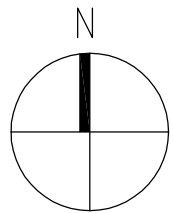
BUILDING DEPARTMENT NOTES

- EXISTING USE GROUP "B" BUSINESS (NO CHANGE TO EXISTING)
- DESIGN USE GROUP "B"
- EXISTING RATED DEMISING WALLS TO REMAIN BETWEEN TENANTS & FIRE SEPARATION AREA. NO CHANGE TO EXISTING.
- CONSTRUCTION IN ACCORDANCE WITH REGULATIONS OF BUILDING CODE: NEW JERSEY UNIFORM CONSTRUCTION CODE (NJAC 5:23-3.14) 2015 IBC NJ EDITION ICG/ANSI A111-2004 2015 NATIONAL STANDARD PLUMBING CODE (N.J.A.C. 5:23-3.15) 2014 NATIONAL ELECTRICAL CODE (N.J.A.C. 5:23-3.16) (NFPA 70)/2014 2015 INTERNATIONAL ENERGY CONSERVATION CODE (N.J.A.C. 5:23-3.18) 2015 INTERNATIONAL MECHANICAL CODE (IMC) (N.J.A.C. 5:23-3.20) 2015 INTERNATIONAL FUEL GAS CODE (IFGC) (N.J.A.C. 5:23-3.22)
- EXISTING EXITS ARE PLAINLY MARKED WITH LIGHTED AND PHOSPHORESCENT SIGNS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 IBC.
- DOORS AND DOORWAYS SHALL MEET THE REQUIREMENTS OF SECTIONS 1007 & 1008 OF THE 2015 IBC.
- ENTIRE EXISTING SPACE IS MECHANICALLY VENTILATED IN ACCORDANCE WITH THE STANDARDS OF ASHRAE AND ASME.
- MODIFIED SUSPENDED CEILING WILL COMPLY WITH REQUIREMENTS OF THE 2015 IBC.
- MIN. NUMBER OF EXITS PER TABLE 1006.3.1 1-500 PERSONS = 2 EXITS 2 EXISTING EXITS PROVIDED, OK
- FIRE RATINGS OF BUILDING ELEMENTS WILL COMPLY WITH TABLE 601

SITE LOCATION PLAN

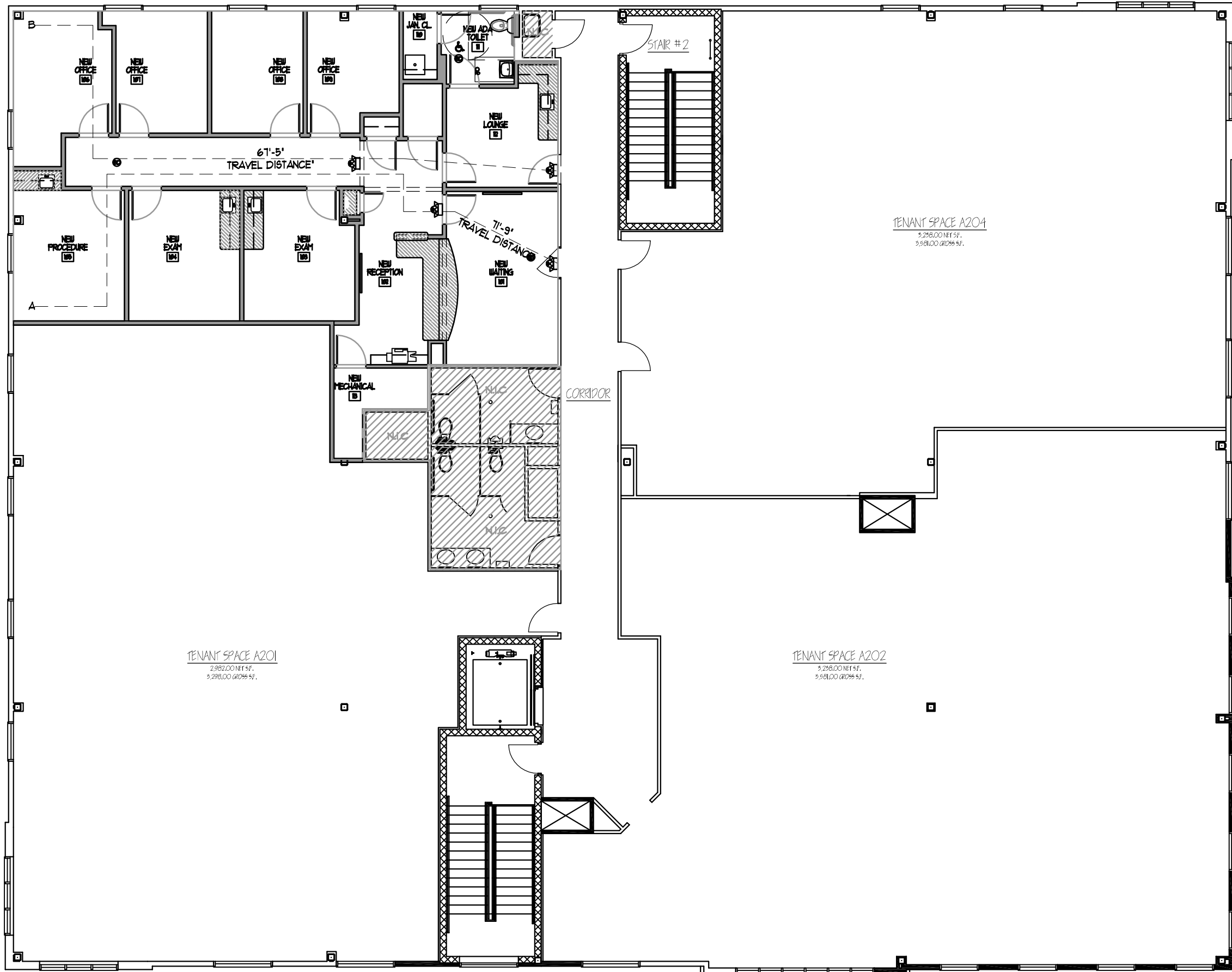


LOCATION OF WORK:
479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746



SCALE: 3/32" = 1' - 0"

EXISTING



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ISSUES

DATE:	DESCRIPTION
11/16/2017	FOR BID

REVISIONS

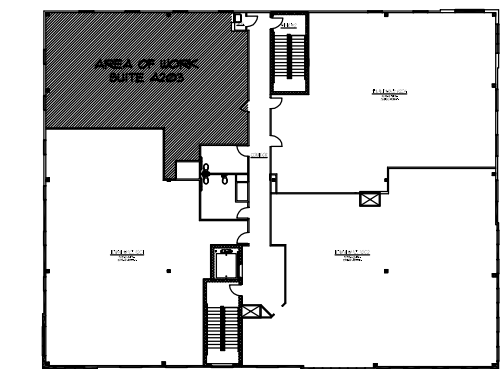
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PROJECT

DR. SADEK

479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 80.1
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
NJ LIC. #1045
N.Y. LIC. #20632

MICHELLE DEL VECCHIO
NJ LIC. #18469

SHEET TITLE:

**TITLE SHEET
PLAN**

JOB NO.:

890-1701

SCALE

AS NOTED

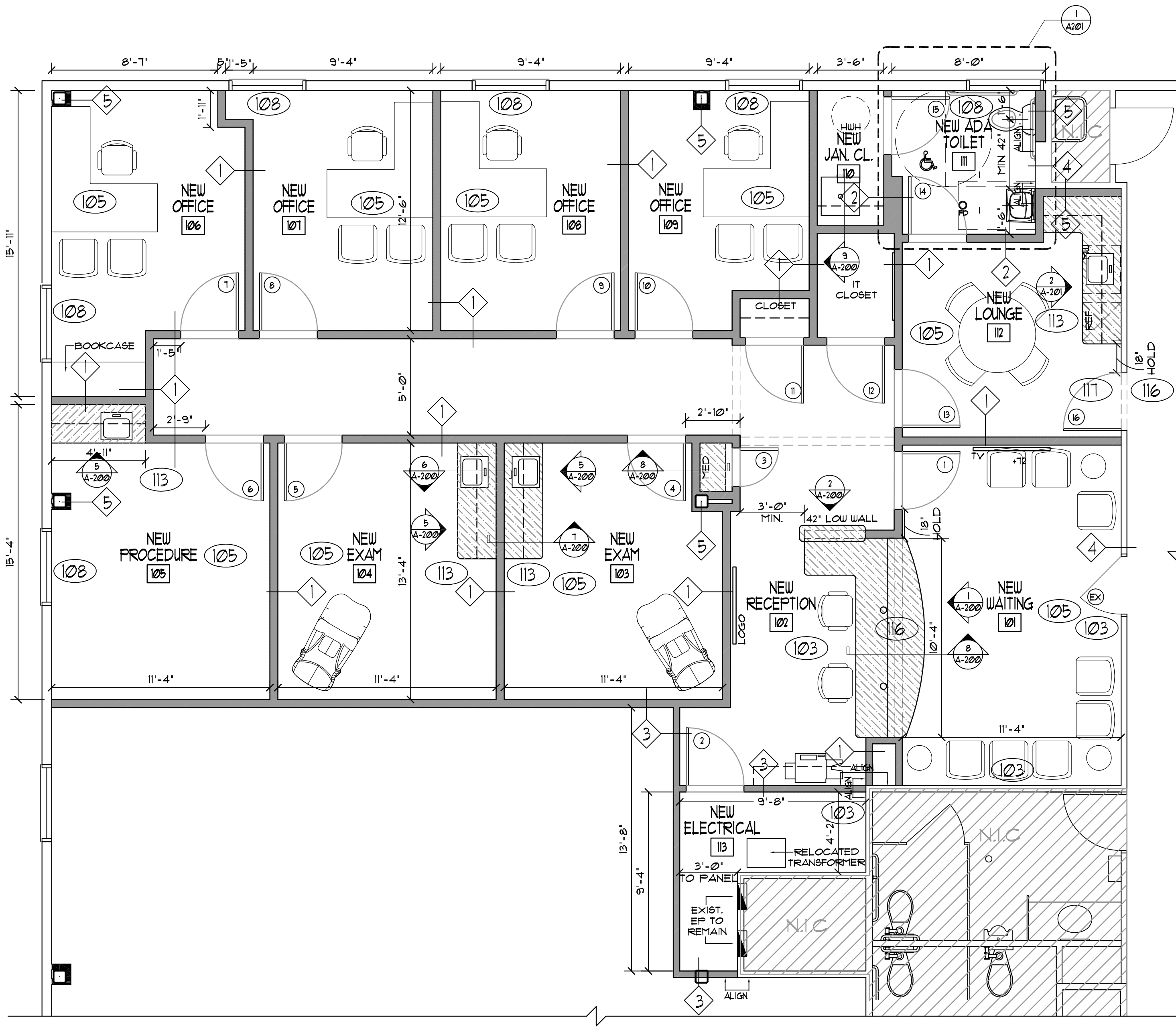
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SHEET NO.

T-100.00

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1 CONSTRUCTION PLAN

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

CONSTRUCTION PLAN LEGEND

- 'E' INDICATES EXISTING TO REMAIN
'R' INDICATES RELOCATED
'N' INDICATES NEW
- EXISTING WALL/PARTITION TO REMAIN
NEW PARTITION TO BE INSTALLED
(SEE DOOR TAG FOR PARTITION TYPES)
- EXISTING DOOR, FRAME, & HARDWARE
NEW DOOR, FRAME & HARDWARE
- DOOR NUMBER, SEE DOOR SCHEDULE FOR INFORMATION.
- SINGLE FACED WALL, MNTD, EXIT LIGHT WITH EMERGENCY BATTERY BACKUP & DIRECTIONAL ARROWS AS INDICATED ON THE PLAN
- WALL MOUNTED EMERGENCY LIGHT W/ BATTERY BACK-UP
- SINGLE FACED WALL, MNTD, COMBINATION EXIT/EMERGENCY LIGHT WITH EMERGENCY BATTERY BACKUP & DIRECTIONAL ARROWS AS INDICATED ON THE PLAN
- NEW MILLWORK BY CONTRACTOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION (SEE PLAN FOR RADIUS EDGE LOCATIONS)
- INDICATES SPECIFIC CONSTRUCTION PLAN NOTE
- DENOTES ELEVATION/DETAIL, OR SECTION. SEE CORRESPONDING DETAIL FOR INFORMATION.
- DETAIL *
DETAIL SYMBOL, SEE CORRESPONDING DRAWING *
DRAWING *

CONSTRUCTION PLAN NOTES

- 100 SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFO.
- 101 CONTRACTOR TO BRING TO ARCHITECT'S ATTENTION ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS, PRIOR TO COMMENCEMENT OF WORK.
- 102 SEE A-200 FOR PARTITIONS DETAIL.
- 103 ALL DIMENSIONS FOR EXISTING CONDITIONS TO BE VERIFIED IN FIELD.
- 104 EXISTING LIFE SAFETY DEVICES TO REMAIN, PROTECT FOR DURATION OF CONSTRUCTION
- 105 ALL NEW FURNITURE TO BE PROVIDED BY OWNER, GC TO COORDINATE DELIVERY AND INSTALLATION
- 106 G.C. SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING FIRE-RATINGS AT EXISTING DEMISING WALLS AND COLUMNS. G.C. SHALL ALSO RESTORE ALL RATINGS IF COMPROMISED BY DEMOLITION/CONSTRUCTION ACTIVITY.
- 107 G.C. SHALL PROVIDE A DETAILED POST-CONSTRUCTION CLEANING.
- 108 ALL EXISTING EXTERIOR WINDOWS SHALL REMAIN. PATCH EXISTING SILLS, JAMBES & FINISHED DRYWALL AT SILLS, HEADERS AND JAMBES AS REQUIRED
- 109 PROVIDE NEW WHITE ACROBYN * NEW JANITORS CLOSET TO 42" AFF. PROVIDE (2) LAMINATE SHELVES.
- 110 G.C. SHALL BE RESPONSIBLE FOR PROVIDING & INSTALLING BATHROOM DOOR SIGNAGE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- 111 ALL EXPOSED MILLWORK CORNERS SHALL RECEIVE RADIUS EDGE TREATMENT
- 112 INSTALL ANY REQUIRED FURRING TIGHT TO ALL COLUMNS, WALLS & MECHANICAL/ PLUMBING PIPES UNLESS OTHERWISE NOTED IN DRAWING.
- 113 CONTRACTOR TO PROVIDE BLOCKING IN WALL (OR CLG) FOR MILLWORK, TELEVISIONS, WRITING SURFACES, ETC.
- 114 PROVIDE NEW WATERPROOF MEMBRANE BELOW NEW FINISHED FLOOR AT UET AREA. SEE A-200
- 115 PROVIDE ACCESS PANEL AS REQUIRED FOR NEW PLUMBING AND RISER. FIELD LOCATE PANEL TO ALLOW ACCESS PER EXISTING AND NEW PLUMBING. PANEL FINISH TO MATCH ADJACENT.
- 116 PROTECT FINISHED WALL SURFACE. PEEL BACK AND RE-USE FIXTURE
- 117 NEW FLOOR SADDLE TO MATCH BUILDING STANDARD



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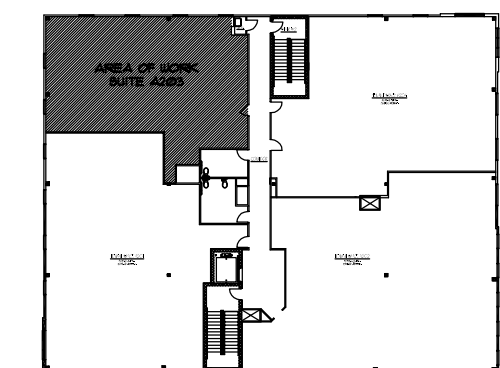
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PROJECT

DR. SADEK

479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
N.J. LIC. #10143
N.Y. LIC. #20632

MICHELLE DEL VECCHIO
N.J. LIC. #18468

SHEET TITLE:

CONSTRUCTION PLAN

JOB NO.:

890-1701

SCALE

AS NOTED

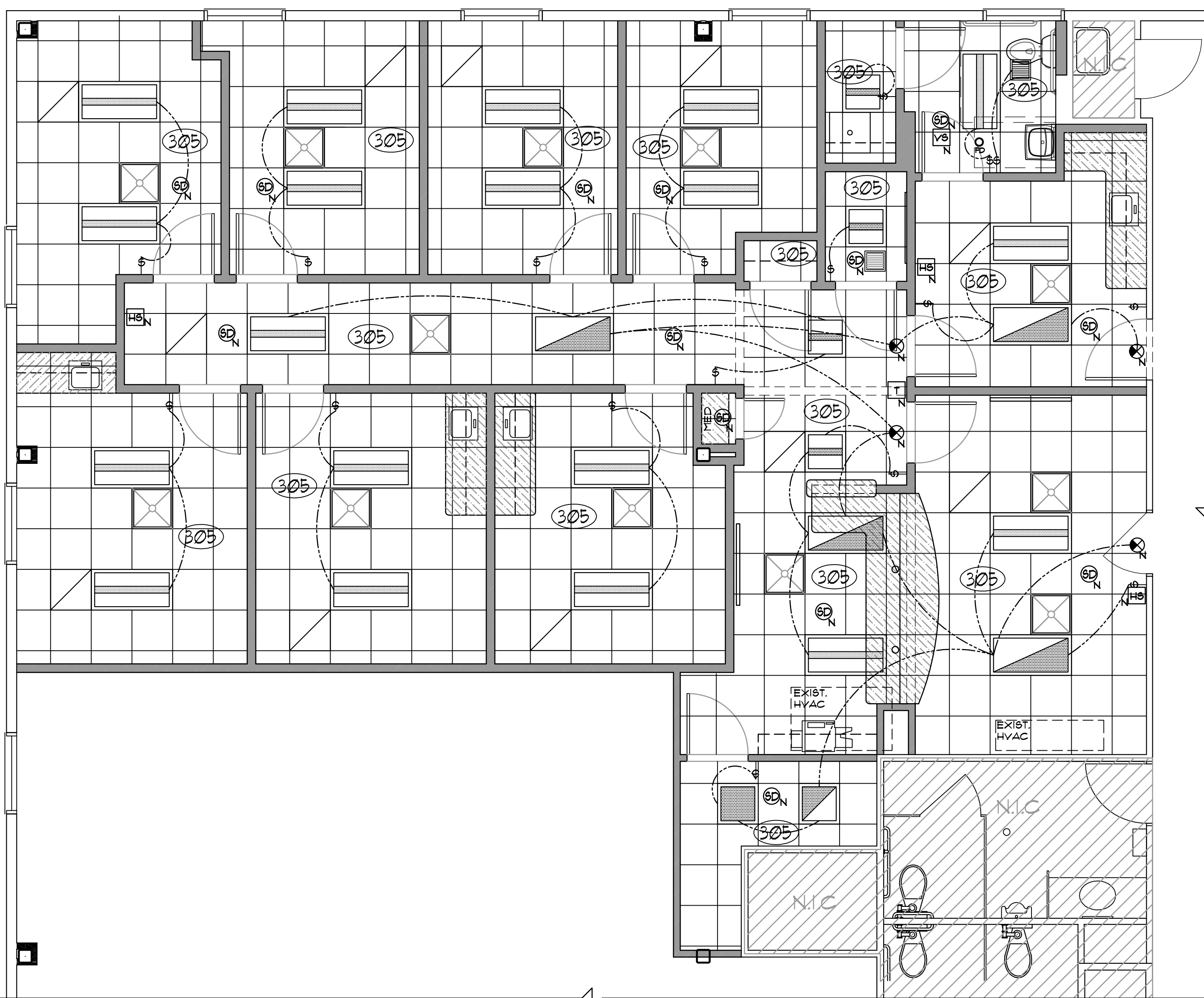
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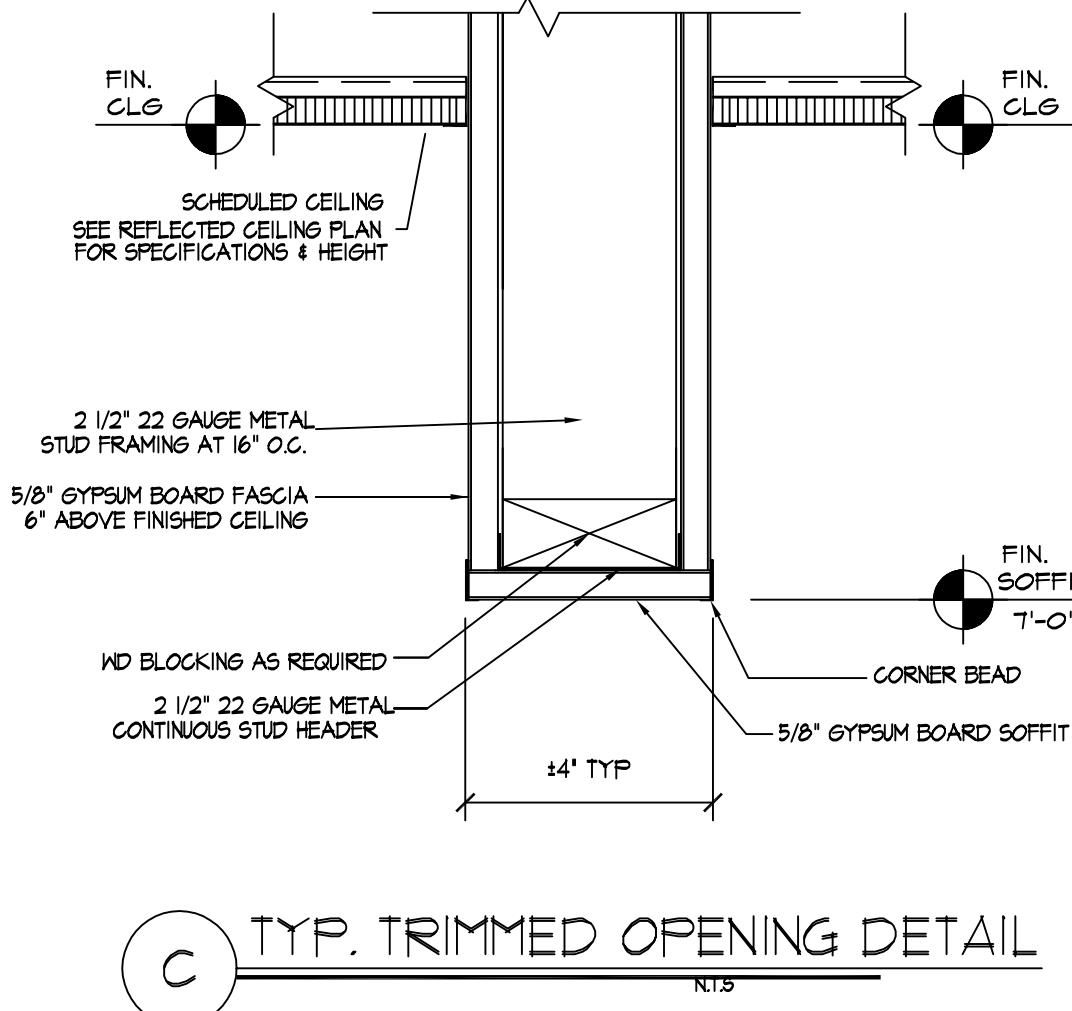
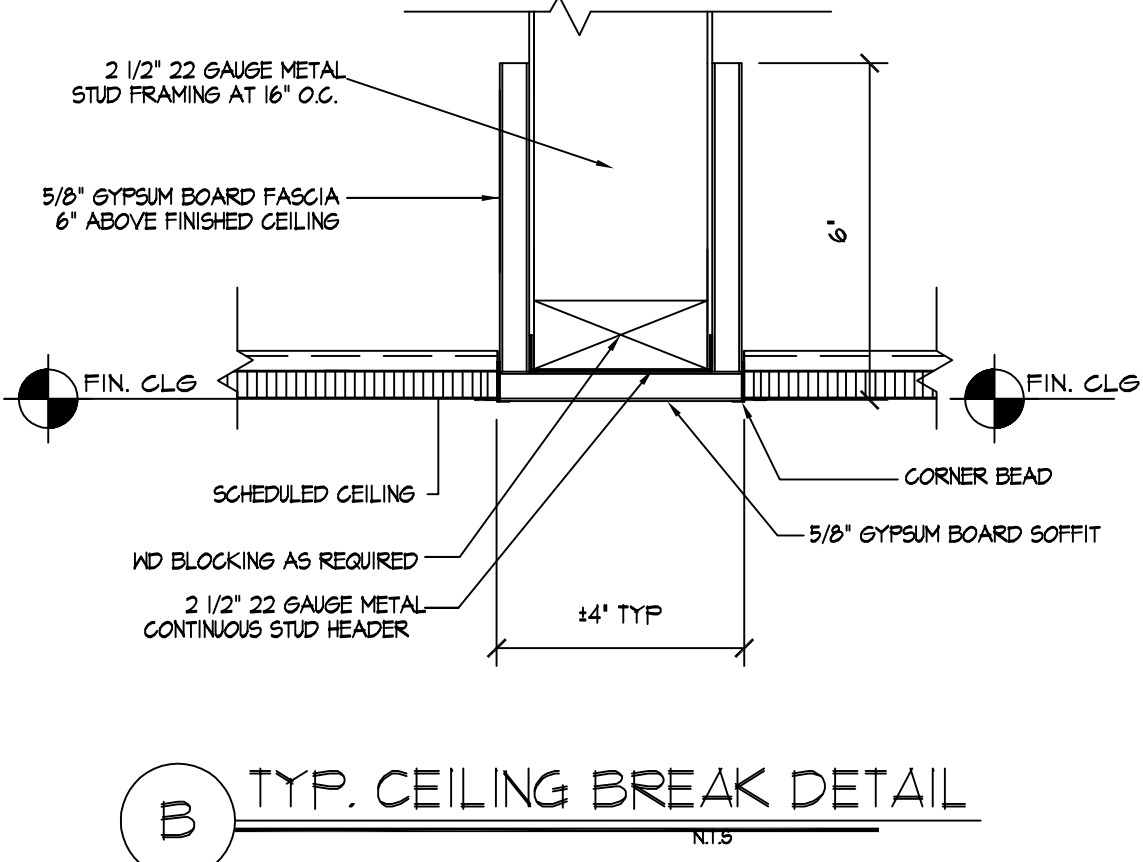
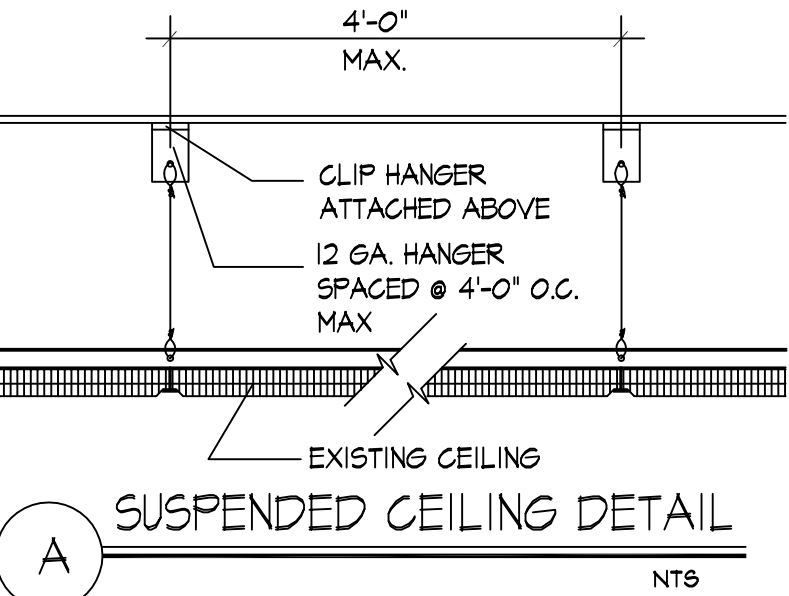
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REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN LEGEND

- R' INDICATES RELOCATED
N' INDICATES NEW
D' INDICATES DEMOLITION OF EXISTING
- EXISTING WALL/PARTITION TO REMAIN
NEW PARTITION TO BE INSTALLED
- 2'x2' RECESSED LED LIGHT MANUFACTURER: MERCURY LIGHTING MODEL# LRI02-S-220-5400-35K -UNI FIXTURE: LED VOLUME LUMINAIRE
- 2'x2' RECESSED PRISMATIC LIGHT MANUFACTURER: HE WILLIAMS, INC. MODEL# 306-522-L45/835-FAFI2/25-OPTIONS-DRY-2TT FIXTURE: STATIC LED TROFFER
- 2'x2' RECESSED PRISMATIC LIGHT MANUFACTURER: HE WILLIAMS, INC. MODEL# 306-522-L45/835-FAFI2/25-EM/10W-DRY-2TT FIXTURE: STATIC LED TROFFER
- 2'x4' RECESSED LED LIGHT MANUFACTURER: MERCURY LIGHTING MODEL# LRI02-S-246-5200-35K -UNI FIXTURE: LED VOLUME LUMINAIRE
- 2'x4' RECESSED LED LIGHT MANUFACTURER: MERCURY LIGHTING MODEL# LRI02-S-246-5200-35K -UNI-EMTR FIXTURE: LED VOLUME LUMINAIRE
- CIRCUITING
- ACOUSTICAL SUSPENDED CEILING TILE SYSTEM (REFER TO PLAN FOR SIZE)
USG INTERIORS CORP.
-RADAR SLT TILE, COLOR: WHITE
-DOWN DX/DXL 15/16\"/>
- SINGLE FACED WALL MNTD. EXIT LIGHT MANUFACTURER: PHILLIPS LIGHTING MODEL #CA6RCALIC2CKT1
- 24\"/>
- 12\"/>
- HARDWIRED SMOKE DETECTOR W/ BATTERY BACKUP HONEYWELL 5143SD/SDT ADDRESSABLE PHOTOELECTRIC
- FIRE ALARM HORN STROBE MANUFACTURER: SPECTRALERT MODEL#: 12R
- FIRE ALARM VISUAL STROBE MANUFACTURER: SPECTRALERT MODEL#: 6R
- THERMOSTAT

REFLECTED CEILING NOTES

300. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
301. CONTRACTOR TO BRING TO ARCHITECT'S ATTENTION ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
302. ARCHITECTURAL PLANS TAKE PRECEDENCE IN REGARDS TO LIGHT FIXTURE LOCATION & QUANTITY.
303. NEW LIGHTING FIXTURE AND ASSOCIATED WIRING THROUGH OUT, SEE LEGEND FOR SPECIFICATION.
304. ALL CEILING HEIGHTS SHALL BE 8'-0\"/>
305. CEILING GRID TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED ON THE PLAN.
306. SWITCHES TO BE LEVITON DECORA. FACE PLATES FOR SWITCHES AND OUTLETS TO BE WHITE.
307. REFER BACK TO A-300 FOR ADDITIONAL MEP INFORMATION.
308. G.C. TO BE RESPONSIBLE FOR HVAC BALANCING, OWNER & ARCH TO BE PROVIDED W/ REPORT.
309. G.C. TO COORDINATE THE ROUGH INSTALL OF MUSIC SPEAKER SYSTEM BY TENANT'S VENDOR WHILE CEILING IS STILL OPEN. MUSIC VENDOR TO MOUNT CENTRAL STATION IN RECEPTION.
310. ALL NEW ELECTRICAL WIRING THROUGHOUT SHALL BE MEDICAL GRADE.
311. G.C. TO BE RESPONSIBLE FOR TURN KEY SPRINKLER SYSTEM, INCLUDING INSTALLATION, INSPECTIONS, SIGN-OFFS AND SYSTEM CALCULATION.



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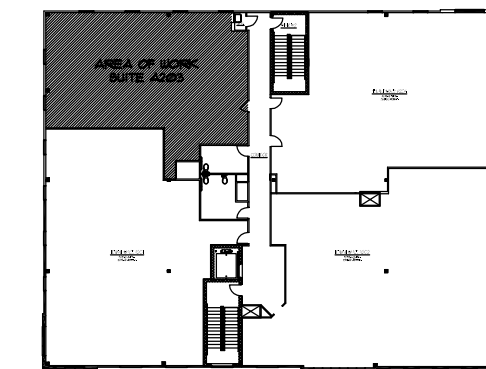
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ZONE: OPT 2



SEAL

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SHEET TITLE:

REFLECTED CEILING
PLAN

JOB NO.:

890-1701

SCALE

AS NOTED

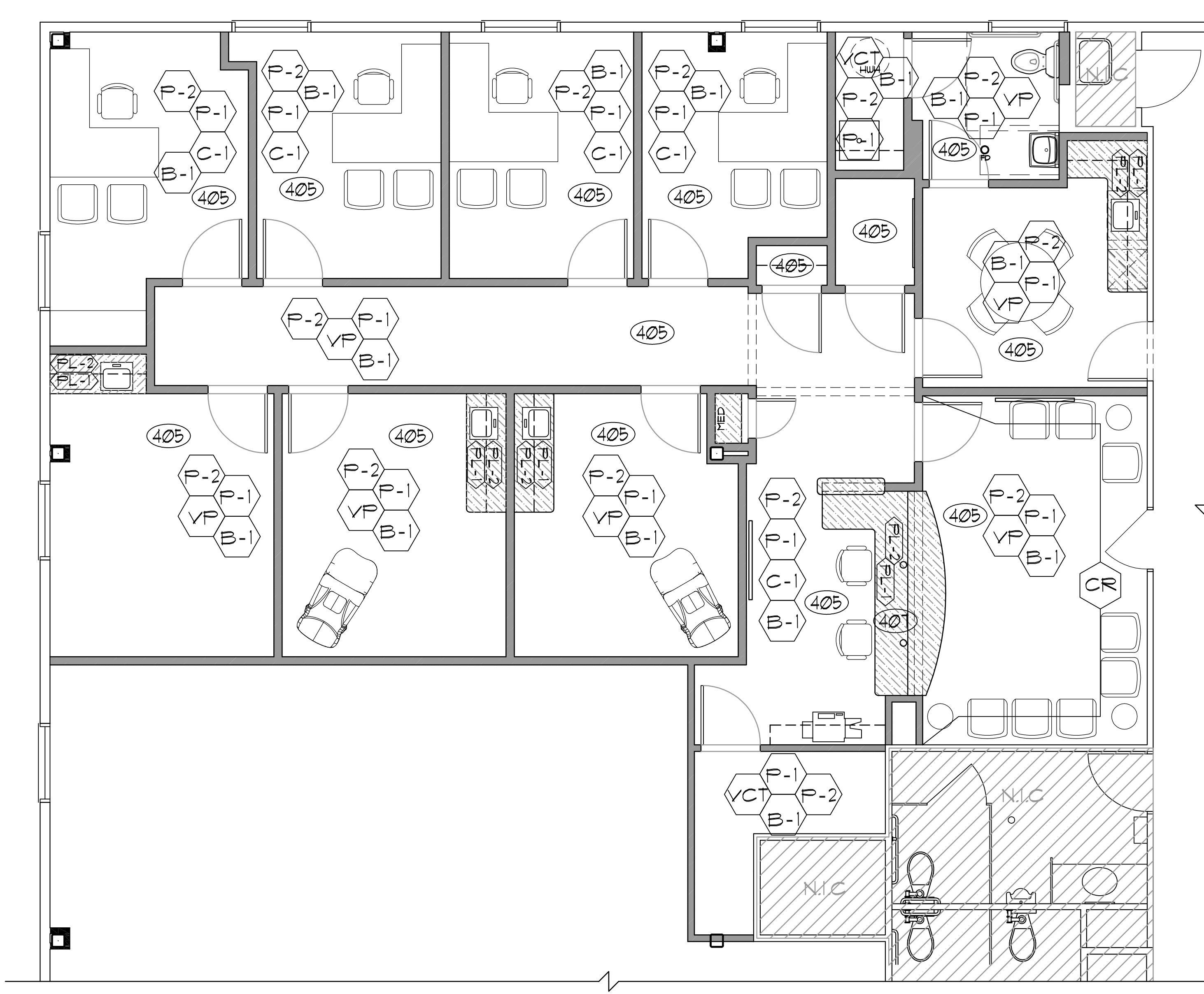
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SHEET NO.

A-101.00

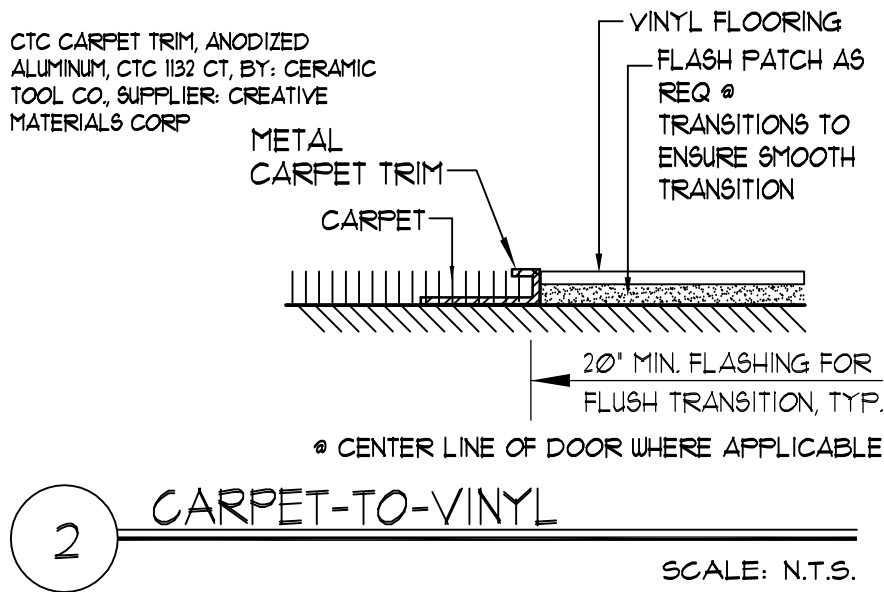
PAGE

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

- FINISH NOTES
- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - CONTRACTOR TO BRING TO ARCHITECT'S ATTENTION ANY DISCREPANCIES BETWEEN DRAWINGS SPECIFICATIONS AND FIELD CONDITIONS, PRIOR TO COMMENCEMENT OF WORK.
 - G. C. SHALL FLASH PATCH SUBFLOOR TO PROVIDE LEVEL SURFACE WITHIN 1/8" VARIATION PER FOOT PRIOR TO INSTALLATION OF FLOOR FINISHES.
 - ALL FLASH PATCH LESS THAN 1/8" BY CARPET CONTRACTOR. ALL OTHER FLOOR PATCHING AS CAUSED BY REMOVALS OR EXISTING CONDITIONS BY GENERAL CONTRACTOR.
 - G.C. TO PREPARE FLOORS AND PROVIDE UNDERLAYMENT TO RECEIVE NEW FINISH AS REQUIRED BY MANUFACTURER. ALL FLOORS SHALL BE LEVELED AS REQ'D. PRIOR TO INSTALLATION OF NEW DECORATIVE FINISHES AS FOLLOWS: CONCRETE FLOORS SHALL RECEIVE ARDEX SELF LEVELING WOOD FLOORS SHALL RECEIVE REVOLUTION FLY (MANUFACTURED BY PATRIOT TIMBER).
 - PROVIDE SCHLUTER TRANSITION STRIPS OR MARBLE SADDLES AS REQUIRED.
 - PROVIDE 3" BLACK GROMMETS AT ALL COUNTERTOPS TO ALIGN W/ POWER AND DATA LOCATIONS BELOW.
 - WHERE VINYL FLOORING MEETS ANOTHER VINYL FLOORING PRODUCT, NO TRANSITION STRIP WILL BE REQUIRED. SMOOTH TRANSITION IS REQUIRED, AND TRANSITIONS SHOULD OCCUR AT CENTERLINE OF DOOR WHERE APPLICABLE. WHERE VINYL MEETS CARPET TILE, PROVIDE TRANSITION AS SHOWN BELOW TRANSITION MUST BE LEVEL.
 - ALL WINDOW TREATMENT IS N.I.C.
 - PROVIDE WHITE METAL SUPPORT BRACKETS AT ALL COUNTERTOPS. CONFIRM LOCATION AND SPACING W/ FURN. VENDOR/ARCHITECT (MIN. 3'-0" SPACING.)
 - PROVIDE COAT HOOKS (TOTAL 15) @ INTERIOR SIDE OF DOOR AT EXAM, OFFICE & RESTROOM. REFER TO DWG A-300 FOR SPEC.
 - G.C. SHALL PROVIDE A DETAILED POST-CONSTRUCTION CLEANING. G.C. SHALL PROVIDE INITIAL WAX AND SEAL AT ALL VCT FLOORING (4 COATS ARE REQUIRED.)
 - ALL FLOORING SHALL BE SUPPLIED & INSTALLED BY THE G.C.
 - ALL DOORS & TRIM SHALL BE SEMI-GLOSS FINISH
 - MAINTAIN 29" CLEARANCE BELOW COUNTERTOPS FOR PEDESTAL FILES TO BE PROVIDED BY THE OWNER.
 - ALL DOORS SHALL BE SOLID BIRCH WOOD AND CLEAR LAQUERED
 - CARPET INSTALLED PRIOR TO OTHER TRADES BEING COMPLETE SHALL PROVIDE ADEQUATE PROTECTION FOR INSTALLED GOODS. THE SUB SHALL HAVE THE EDGES TRIMMED AND SEALED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 - EXISTING WALL TILE TO BE PAINTED



FINISH SCHEDULE

NAME	TYPE OF FINISH	MANUFACTURER	MODEL # / COLOR	REMARKS
P-1	INTERIOR PAINT, GENERAL	BENJAMIN MOORE	TBD	
P-2	INTERIOR PAINT, CEILINGS AND SOFFITS	BENJAMIN MOORE	TBD	
P-3	INTERIOR PAINT, ACCENT	BEJAMIN MOORE	TBD	
VCT-1	VINYL COMPOSITION TILE, 100% FIELD	TBD	TBD	
C-1	CARPET TILE	TBD	TBD	
VP	WOOD-LOOK VINYL PLANK FLOORING	MANNINGTON	TBD	
CR	5 1/2" WIDE WOOD CHAIR RAIL	PROFILE: E55	PAINT P-1, SEMI-GLOSS	CENTERLINE OF CHAIR RAIL @ 31" AFF.
B-1	4" HIGH RUBBER WALL BASE	JOHNSONITE	COLOR: 84 BLUE JEANS	STRAIGHT @ CARPET, COVE @ RESILIENT
PL-1	PLASTIC LAMINATE, COUNTERTOPS	TBD	TBD	
PL-2	PLASTIC LAMINATE, CABINETRY	TBD	TBD	
PL-3	PLASTIC LAMINATE	TBD	TBD	



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DATE:	DESCRIPTION
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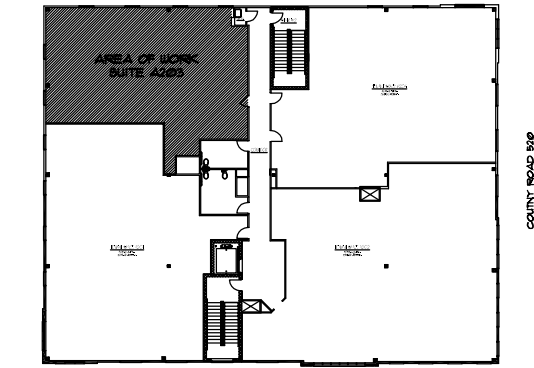
DATE:	DESCRIPTION
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PROJECT

DR. SADEK

479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
N.J. LIC. #10143
N.Y. LIC. #20632
MICHELLE DEL VECCHIO
N.J. LIC. #18469



SHEET TITLE:

FINISH PLAN

JOB NO.:

890-1701

DRAWN BY:

SPK

SCALE:

AS NOTED

DATE:

11/1/2017

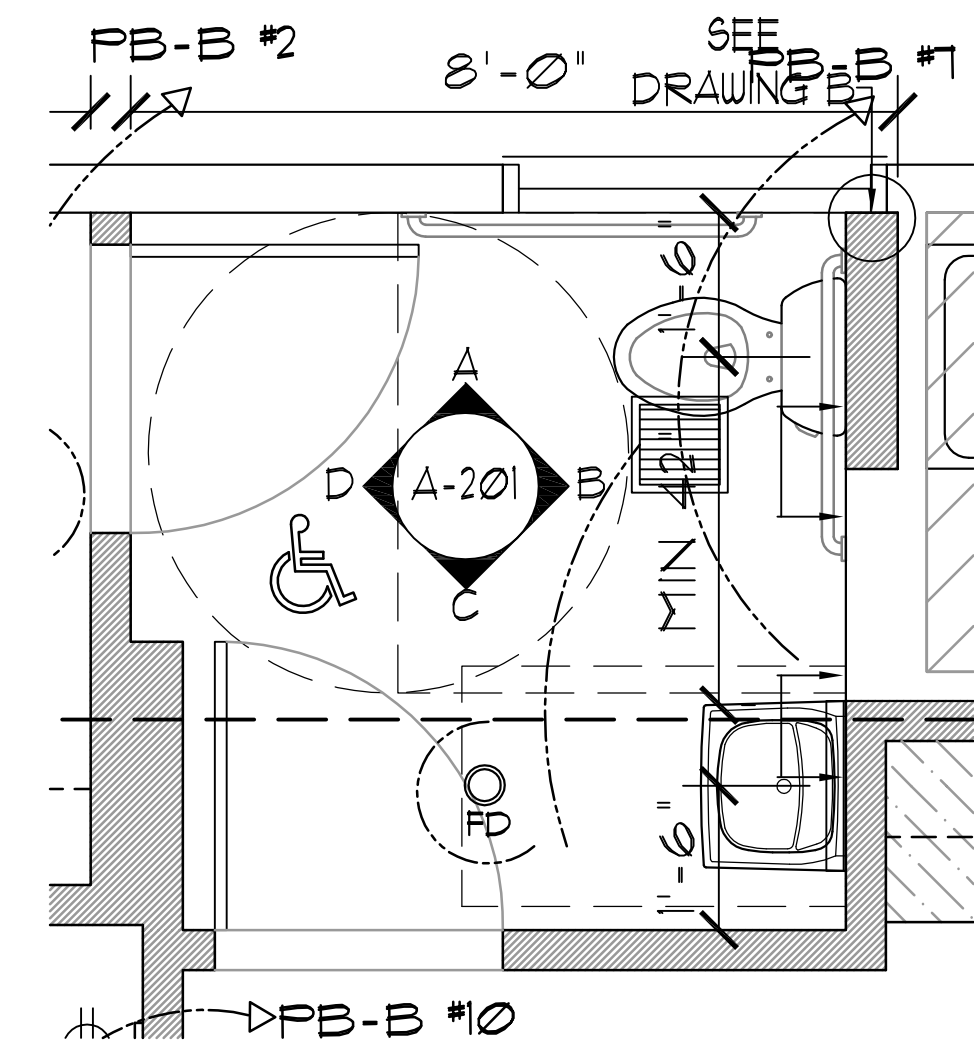
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SHEET NO.:

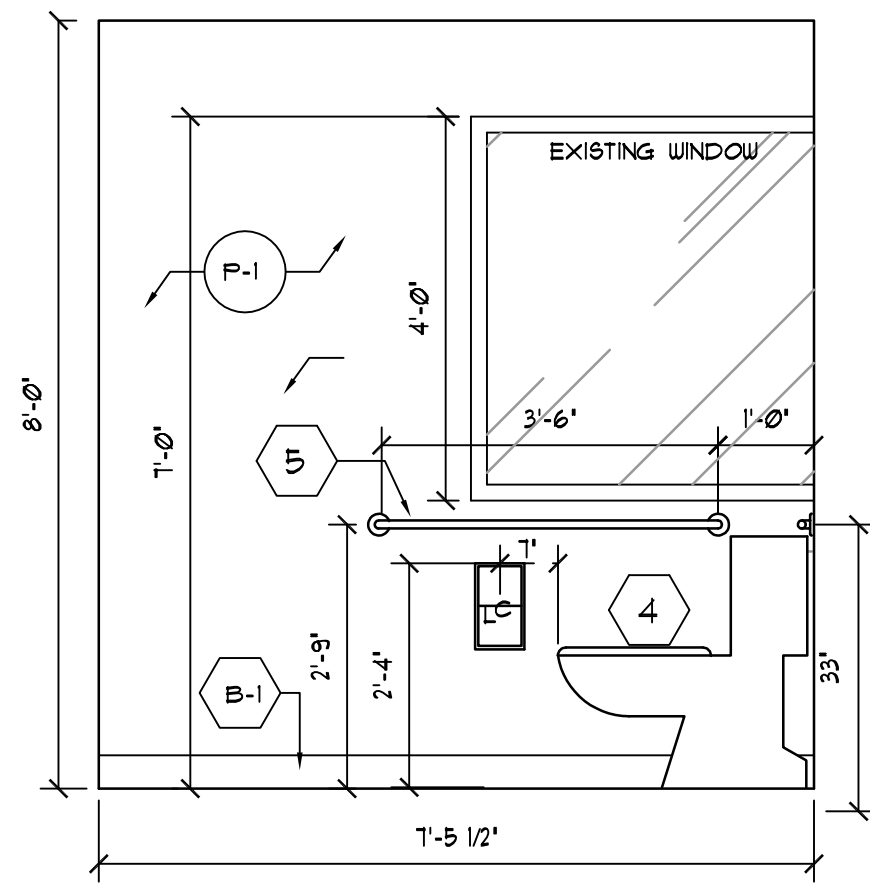
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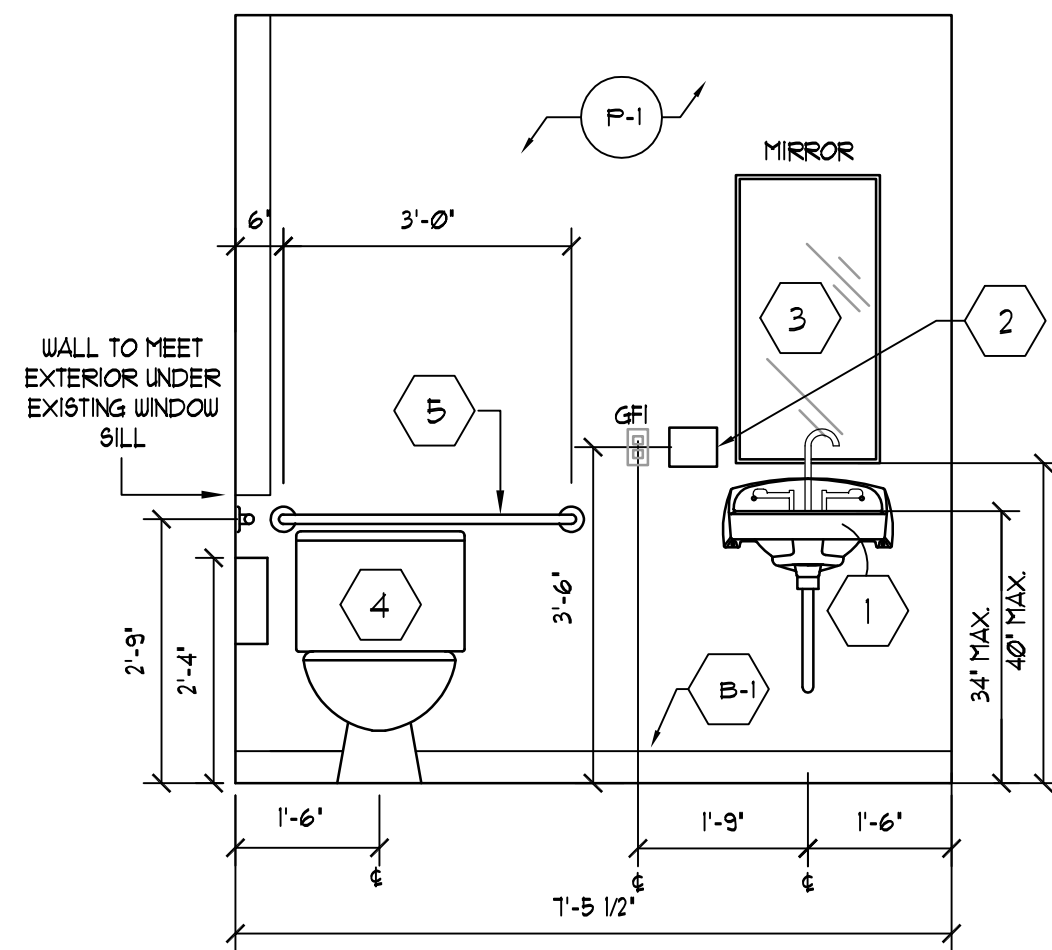
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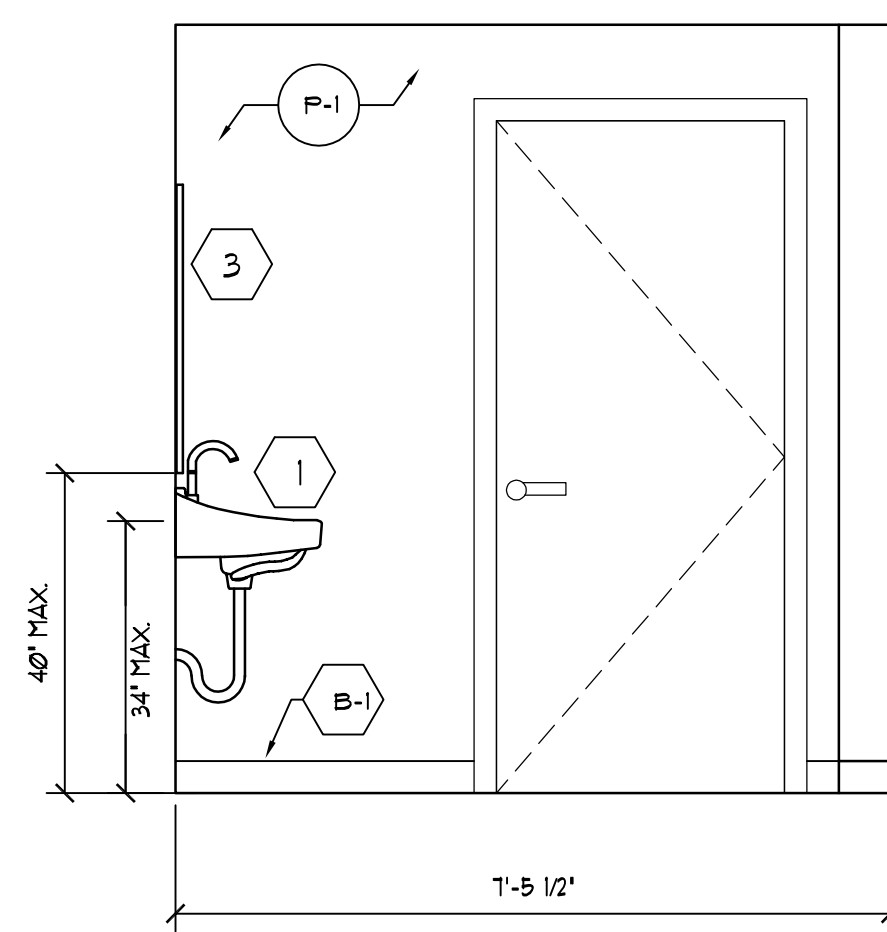
1 ENLARGED PLAN AT LAVATORY
1/2" = 1'-0"



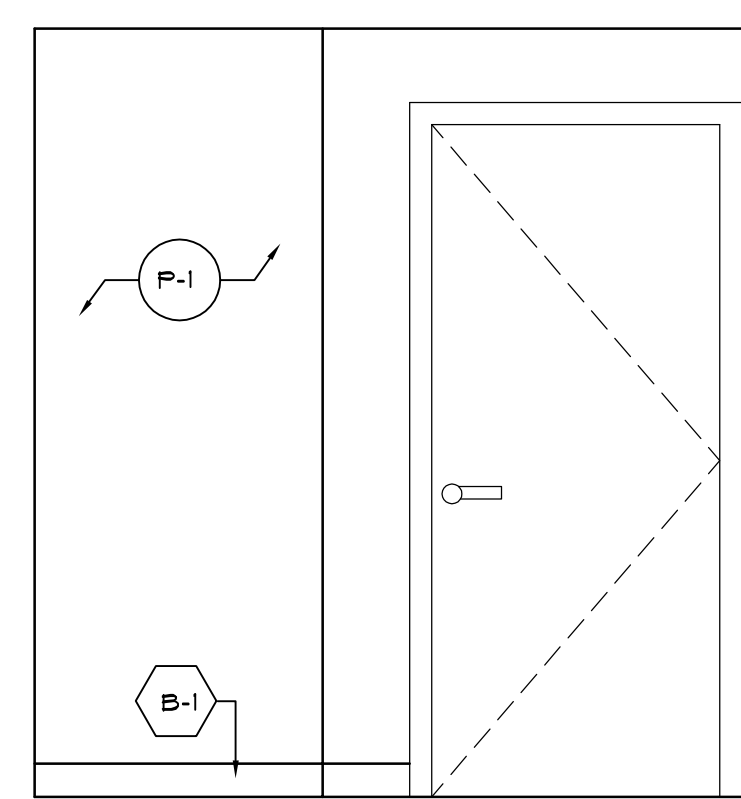
A ENLARGED PLAN AT LAVATORY
1/2" = 1'-0"



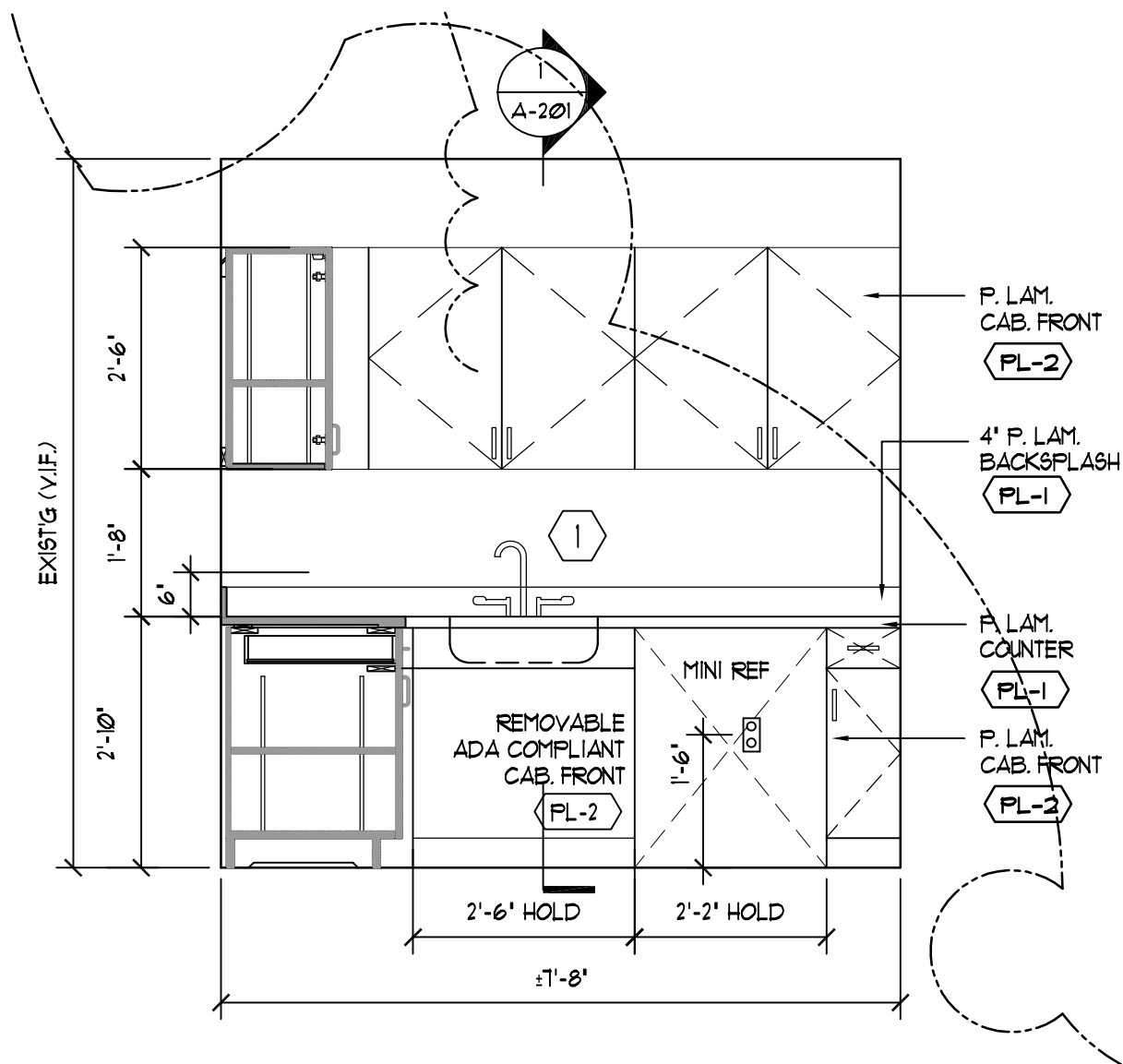
B ENLARGED PLAN AT LAVATORY
1/2" = 1'-0"



C ENLARGED PLAN AT LAVATORY
1/2" = 1'-0"



D ENLARGED PLAN AT LAVATORY
1/2" = 1'-0"



2 ELEVATION AT BREAK RM
SCALE: 1/2" = 1'-0"

LAVATORY FIXTURE & ACCESSORY SCHEDULE

- 1 AMERICAN STANDARD 'MISSOURI' WALL-HUNG LAVATORY 0436.004US, (3) FAUCET HOLES @ 4' O.C., COLOR: WHITE WITH ELKAY DECK MOUNT GOOSENECK FAUCET #LK310GN04T4 (4" WRIST BLADE HANDLES) POLISHED CHROME FINISH
- 2 SURFACE MOUNTED SOAP DISPENSER PROVIDED BY OWNER INSTALLED BY GC. ADA COMPLIANT HEIGHT AND LOCATION FINAL LOCATION TO BE FIELD IDENTIFIED WITH CLIENT
- 3 BOBRICK CHANNEL FRAME MIRROR
- 4 AMERICAN STANDARD CADET FLOWISE RIGHT HEIGHT PRESSURE-ASSISTED ELONGATED TOILET WITH #321110 EVERCLEAN SEAT. COLOR: WHITE
* PROVIDE CAULK AT BASE
- 5 BOBRICK B-6806 SERIES, SATIN FINISH STAINLESS STEEL WITH PEENED GRIPPING SURFACE, LENGTHS AS SHOWN ON PLANS AND ELEVATIONS, PROVIDE BLOCKING AS REQUIRED
- 6 PREFABRICATED SPECIMEN PASS-THROUGH MANUFACTURER: AMERICAN SPECIALTIES, INC. MODEL NUMBER: 0515
- 7 POLYETHYLENE WALL-MOUNT DIAPER CHANGING STATION, HORIZONTAL, COLOR: WHITE, MODEL: FDT-100-EH, BY FOUNDATIONS. INSTALL AT ADA COMPLIANT HEIGHT AND PER MANUFACTURER'S INSTRUCTIONS. PROVIDE IN-WALL BLOCKING AS REQUIRED FOR MOUNTING
- 8 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER PROVIDED & INSTALLED BY G.C. INSTALLATION TO BE ADA COMPLIANT. FINAL LOCATION TO BE FIELD IDENTIFIED WITH CLIENT
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE PROVIDED BY OWNER (INSTALLED BY G.C.) INSTALLATION TO BE ADA COMPLIANT. FINAL LOCATION TO BE FIELD IDENTIFIED WITH CLIENT



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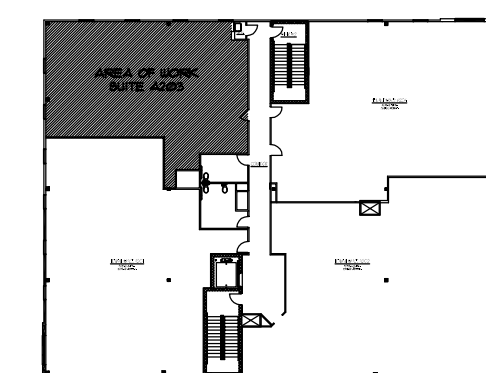
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PROJECT

DR. SADEK

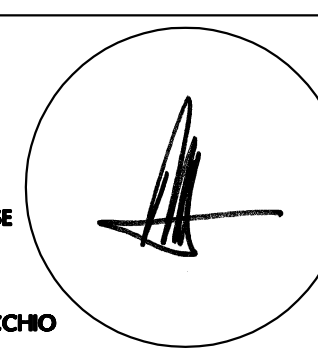
479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
N.J. LIC. #10143
N.Y. LIC. #20632
MICHELLE DEL VECCHIO
N.J. LIC. #18468



SHEET TITLE:

INTERIOR ELEVATIONS
AND DETAILS

JOB NO.:

890-1701

DRAWN BY

SPK

SCALE

AS NOTED

DATE

11/1/2017

BSCAN/ APPLICATION NO.:

SHEET NO.

A-201.00

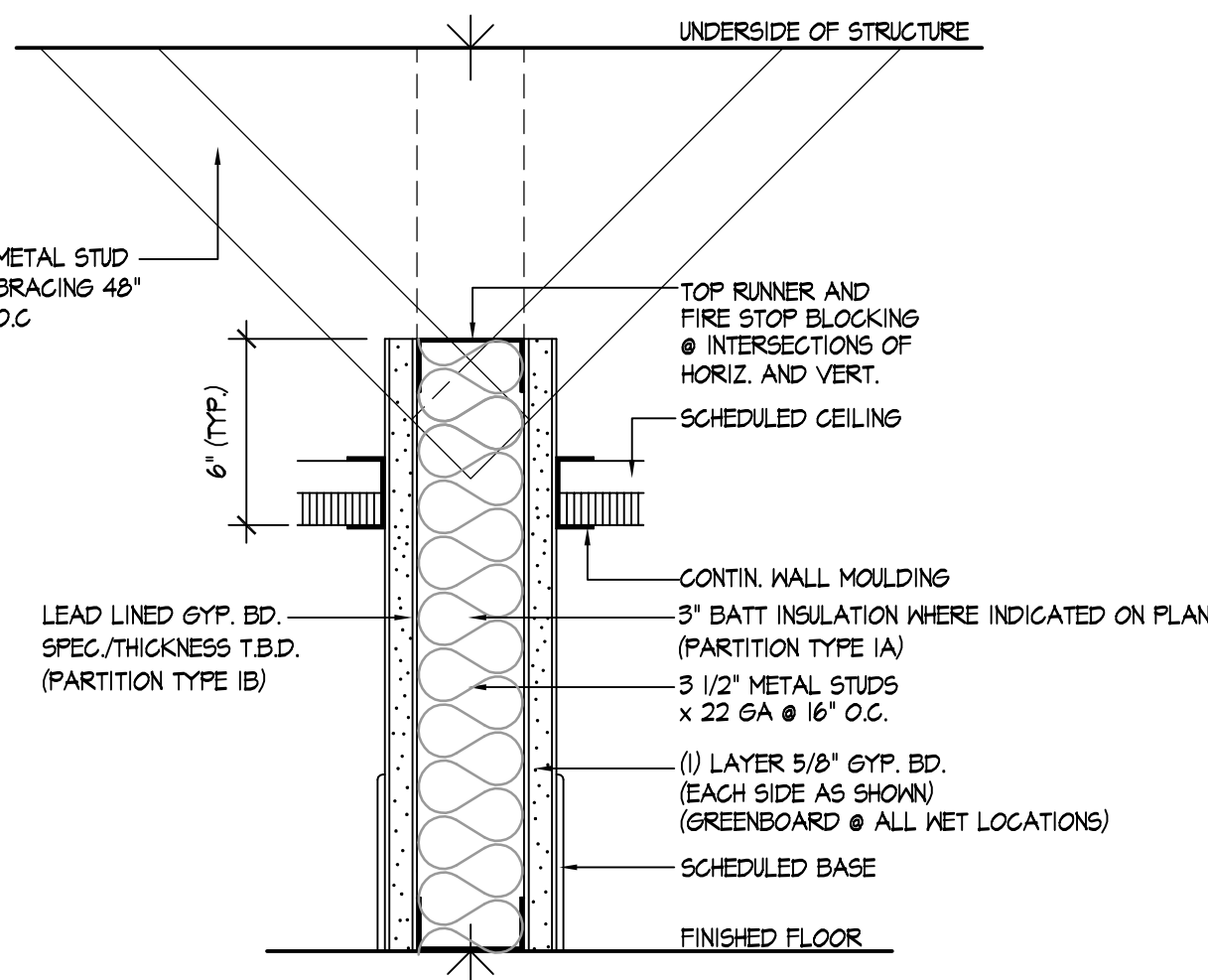
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NEW PARTITION TYPES

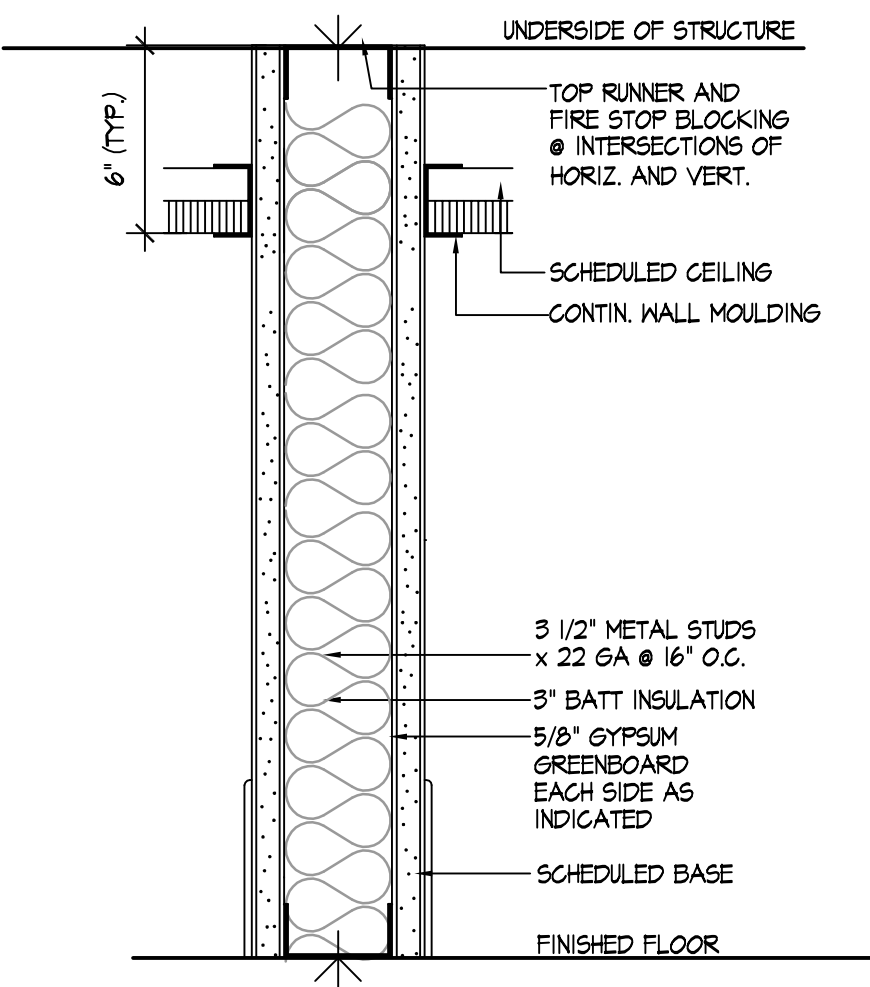
* ALL G.W.B. ASSEMBLIES TO BE GYPSUM ASSOCIATION (G.A.) APPROVED

NOTE:
CONTRACTOR TO MAINTAIN EXIST'G FIRE RATING AT ALL EXTERIOR WALLS
AND 1-HOUR RATING AT TENANT SPACE DEMISING WALLS DURING
CONSTRUCTION. CONTRACTOR TO PERFORM ANY WORK REQUIRED TO
RESTORE RATING WHICH MAY BE DISRUPTED DURING CONSTRUCTION.
CONTRACTOR TO ENSURE ALL DEMISING WALLS ARE FURRED AS SHOWN.

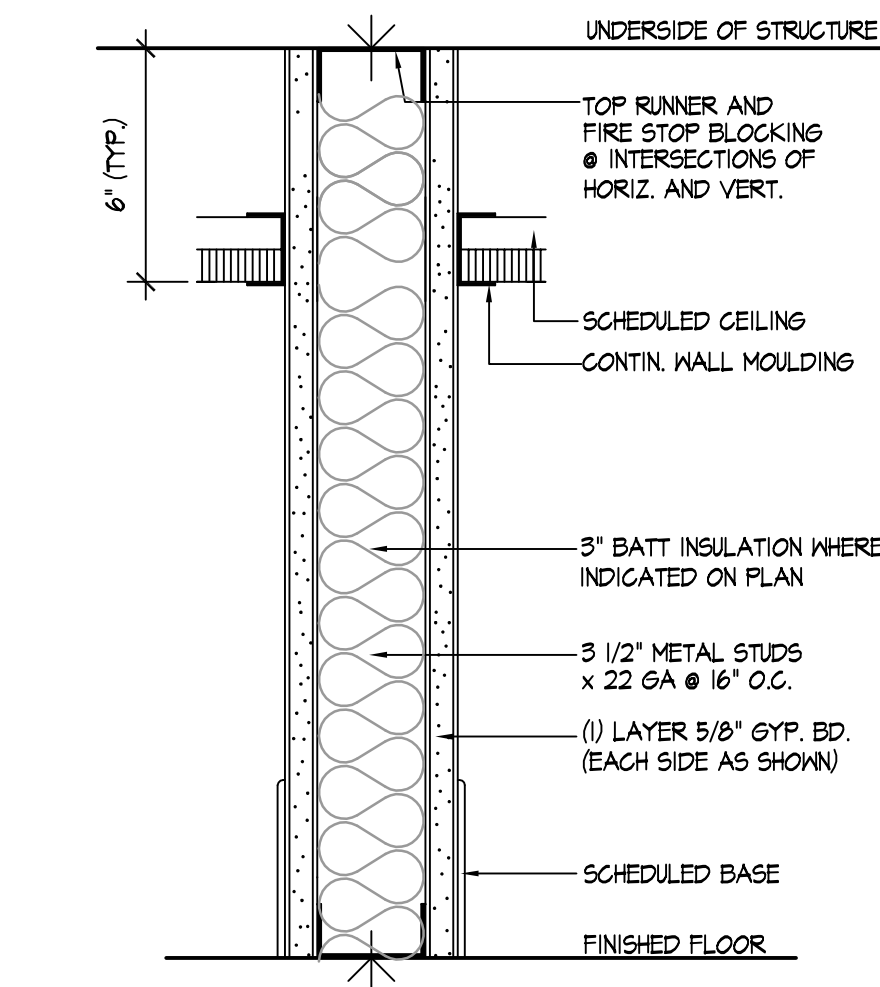


1 TYPICAL PARTITION
N.T.S.

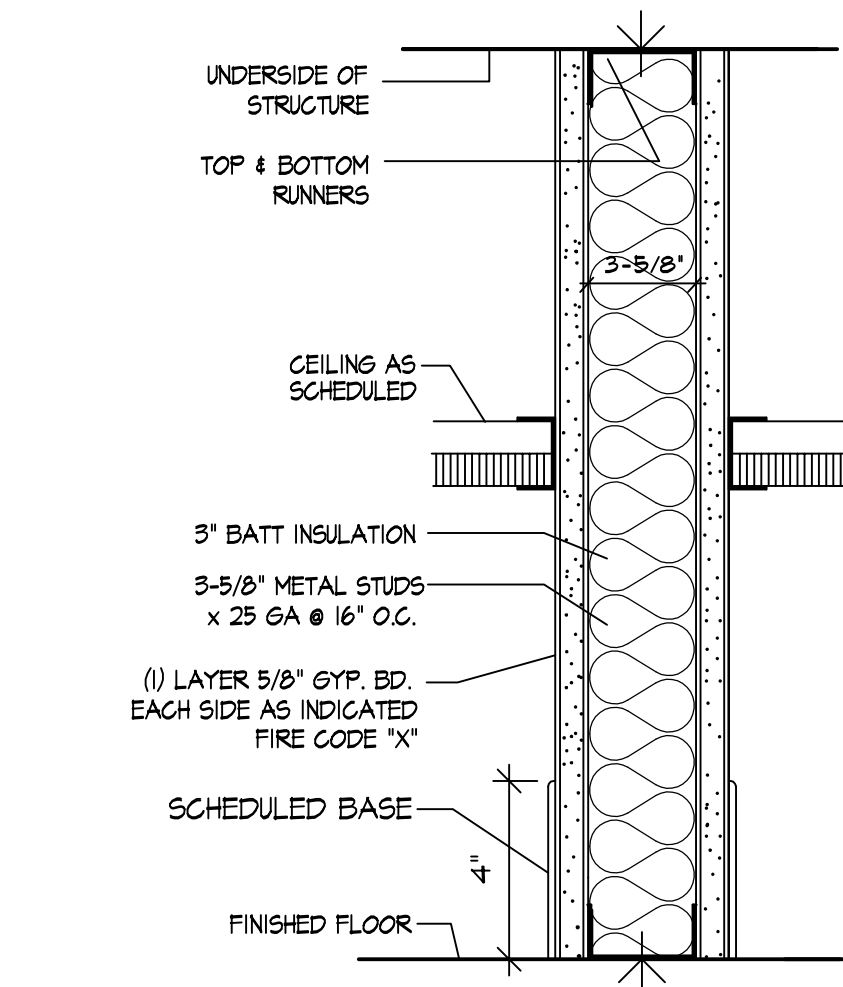
1A TYP. INSULATED PARTITION
N.T.S.



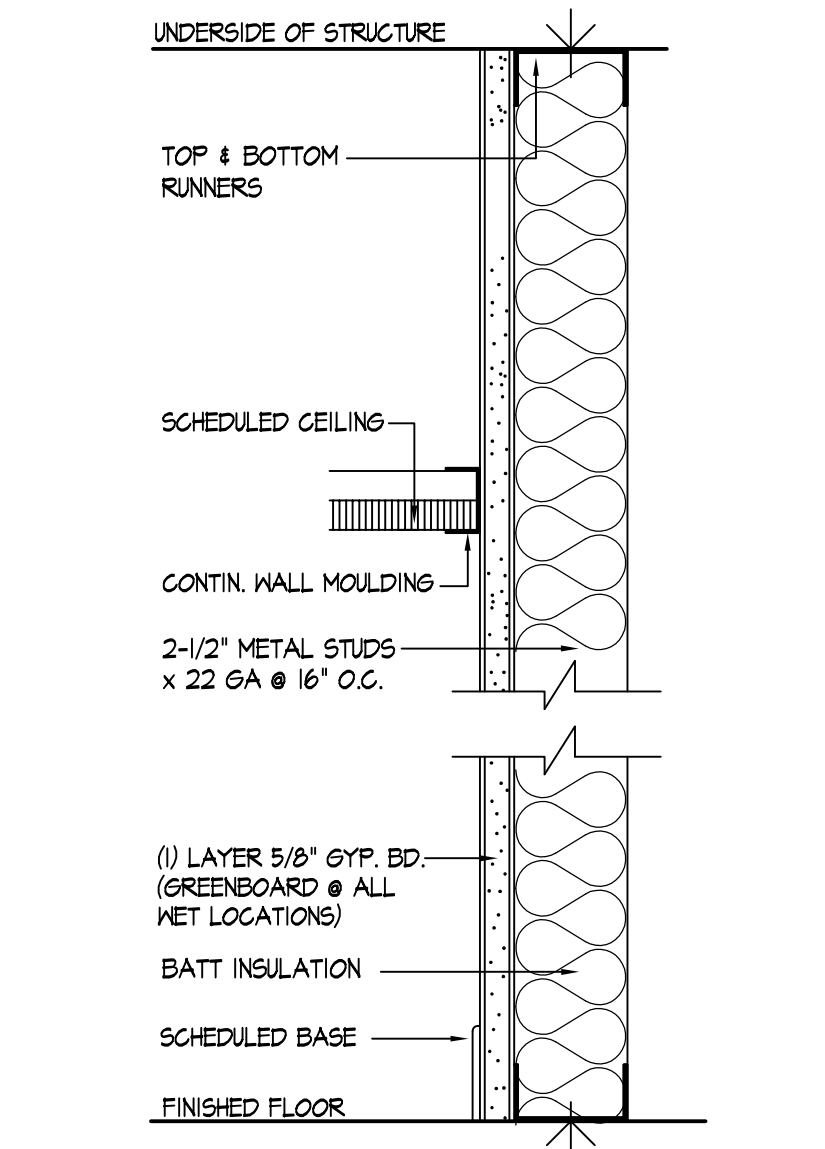
2 PARTITION @ WET LOCATIONS
N.T.S.



3 TYPICAL 1 HR RATED WALL
N.T.S.



4 EXIST. 1 HR RATED DEMISING WALL
N.T.S.



5 FURRING
N.T.S.

DOOR SCHEDULE

DOOR		FRAME			REMARKS				
NO.	DIMENSIONS	TYPE	MAT.	FIN.	HW	TYPE	MAT.	FIN.	
1	3'-0" X 7'-0"	B	WD	STAIN	3	FI	HM	PAINT	
2	3'-0" X 7'-0"	D	WD	STAIN	2	FI	HM	PAINT	
3	2'-0" X 7'-0"	B	WD	STAIN	2	FI	HM	PAINT	
4	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
5	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
6	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
7	3'-0" X 7'-0"	C	WD	STAIN	3	FI	HM	PAINT	
8	3'-0" X 7'-0"	C	WD	STAIN	3	FI	HM	PAINT	
9	3'-0" X 7'-0"	C	WD	STAIN	3	FI	HM	PAINT	
10	3'-0" X 7'-0"	C	WD	STAIN	3	FI	HM	PAINT	
11	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
12	3'-0" X 7'-0"	B	WD	STAIN	3	FI	HM	PAINT	
13	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
14	3'-0" X 7'-0"	A	WD	STAIN	3	FI	HM	PAINT	
15	3'-0" X 7'-0"	B	WD	STAIN	2	FI	HM	PAINT	
16	3'-0" X 7'-0"	D	WD	STAIN	3	FI	HM	PAINT	

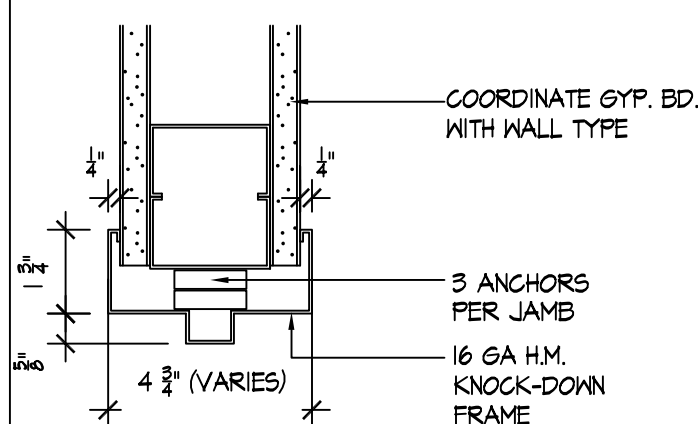
HARDWARE SPEC.

HARDWARE	MANUFACTURER
CYLINDER LOCK-	BEST E SERIES
*ALL HARDWARE FINISH SHALL BE US26D SATIN STEEL UNLESS OTHERWISE NOTED	
*ALL HARDWARE TO MEET ADA STANDARDS	
CLASSROOM LOCKSET	DORMA, ADA COMPLIANT
STOREROOM LOCKSET	DORMA, ADA COMPLIANT
PASSAGE/CLOS. LOCKSET	DORMA, ADA COMPLIANT
PRIVACY LOCKSET	DORMA, ADA COMPLIANT
HINGES	STANLEY FBB174 STANLEY FINISH #652 SATIN STAINLESS STEEL
DOOR STOP (DOME)	ROCKWOOD #446 FLOOR MOUNTED W/ RISER IN CARPETED AREA
SILENCERS	H.B. IVES #SR65
WIRE PULL	ROCKWOOD #250 - 4" BRUSHED STAINLESS
THRESHOLD	STANLEY SADDLE THRESHOLDS SIZE 4 MODEL # AS REQUIRED

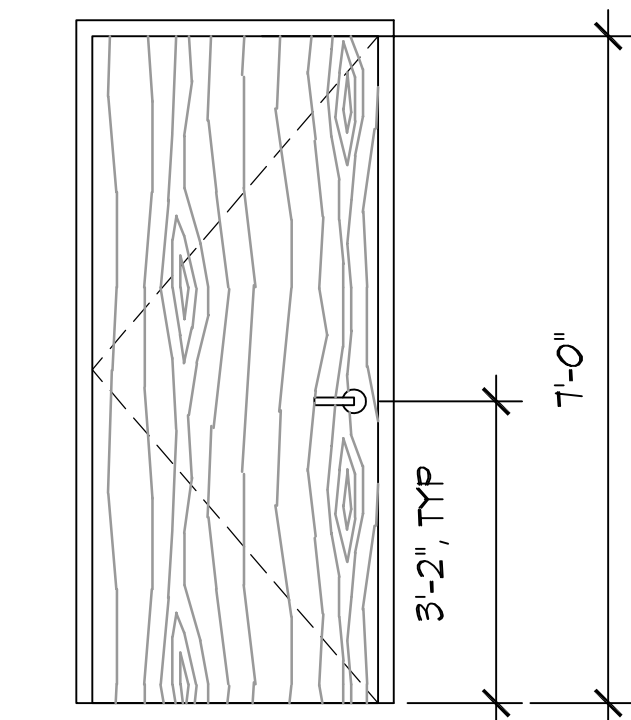
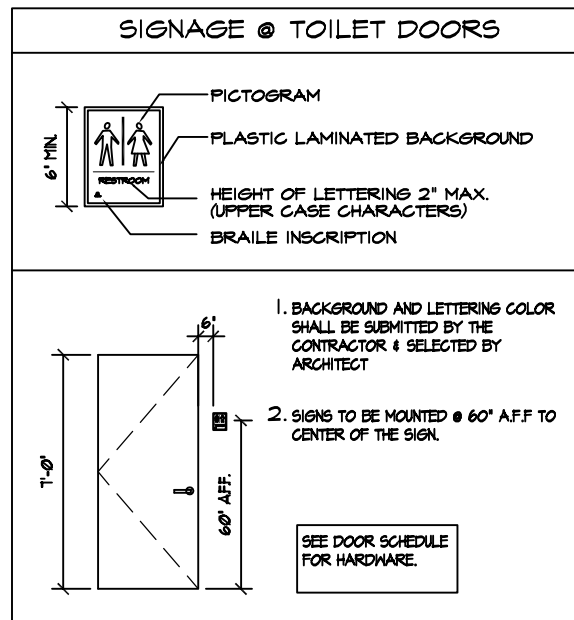
SCHEDULE

HARDWARE SET 1 PRIVACY LOCKSET 1 1/2 PAIR HINGES DOOR STOP SILENCERS
HARDWARE SET 2 STOREROOM LOCKSET 1 1/2 PAIR HINGES DOOR STOP SILENCERS
HARDWARE SET 3 PASSAGE/CLOSET LOCKSET 1 1/2 PAIR HINGES DOOR STOP SILENCERS

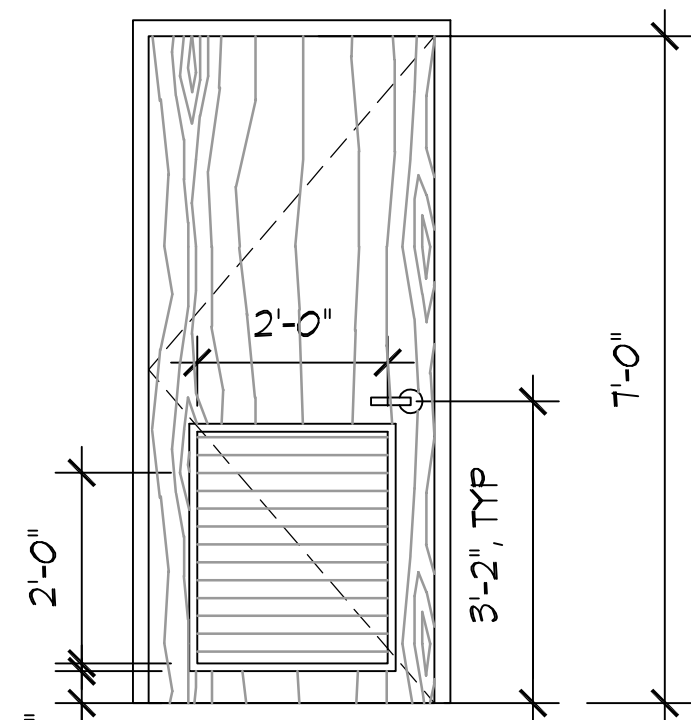
FRAME (F1)



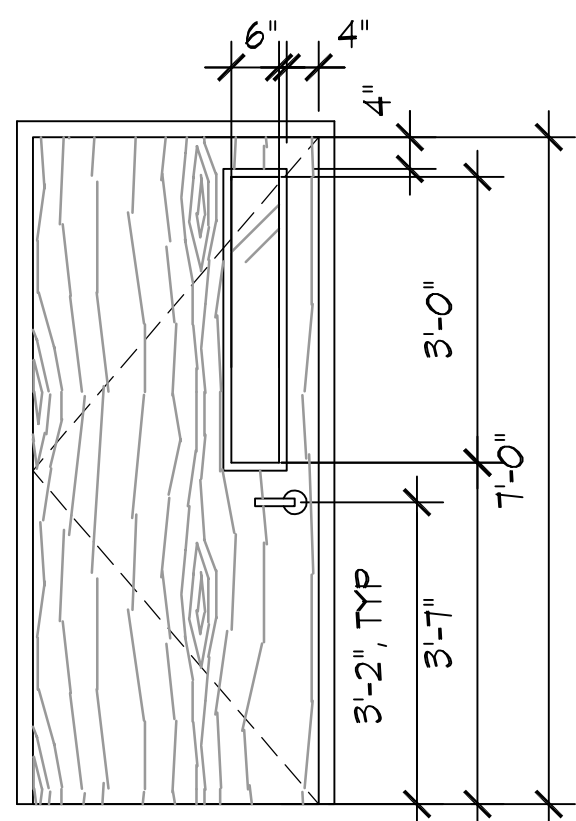
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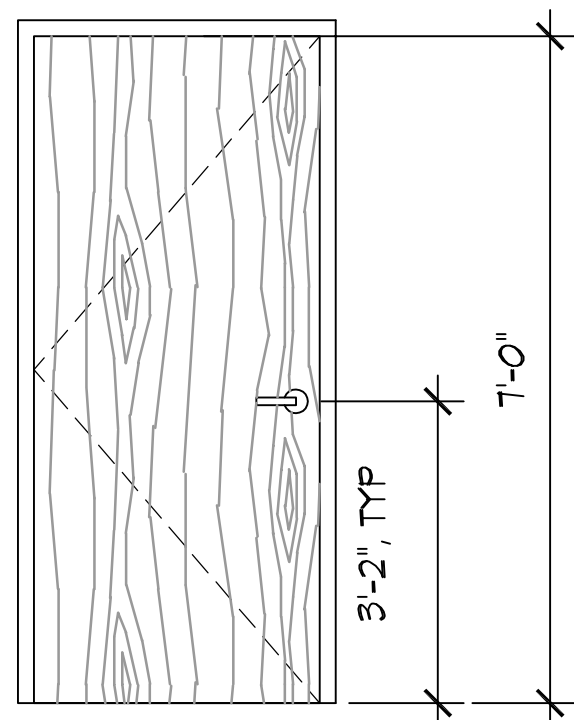
A
NEW INTERIOR DOOR
SOLID, PRE-FINISHED WOOD
(WHITE BIRCH, CLEAR FINISH)



B
NEW INTERIOR DOOR
SOLID, PRE-FINISHED WOOD
W/ PAINTED METAL LOUVER
AS SHOWN (WHITE BIRCH,
CLEAR FINISH)



C
NEW INTERIOR DOOR
SOLID, PRE-FINISHED WOOD
W/ 1/4\"/>



D
NEW INTERIOR 3/4 RATED
SOLID, PRE-FINISHED WOOD
(WHITE BIRCH, CLEAR FINISH)

DOOR TYPES

SCALE: 1/2" = 1'-0"



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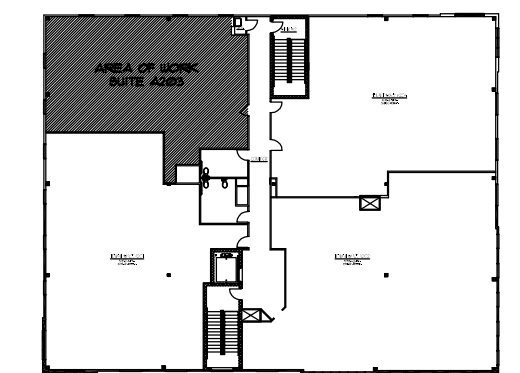
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PROJECT

DR. SADEK

479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
N.J. LIC. #10843
N.Y. LIC. #20632

SHEET TITLE:

SCHEDULES
AND DETAILS

JOB NO.:

890-1701

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DATE

11/1/2017

BSCAN/ APPLICATION NO.:

SHEET NO.

A-202.00

PAGE

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Brian W. Pasiecznik, PE
NJ #4811 PA #P0070627
Milton A. Azou, PE
NJ #2057 NY #4808 PA #P001488
Edward J. Gallo, PE
NJ #2016 NY #2012 Pa #P00807 De #1776

ISSUES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION

PROJECT

DR. SADEK

479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2

SEAL

BRIAN PASECZNICK, PE
N.J. LIC. #4811

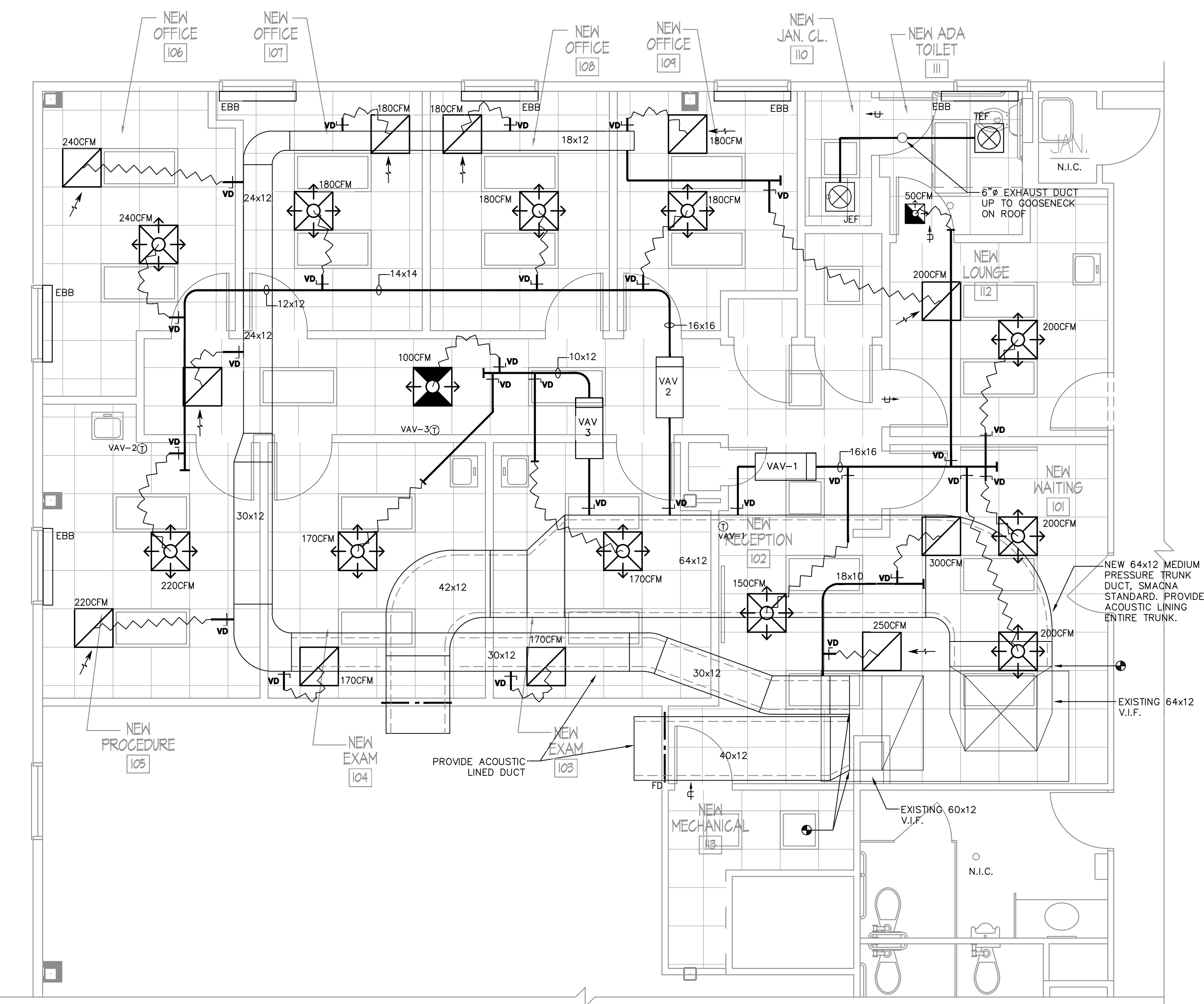
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MECHANICAL PLAN

JOB NO.: 890-1701	DRAWN BY: GB/LN
SCALE	DATE 11/14/2017

BSCAN/ APPLICATION NO.:

SHEET NO. M-1	PAGE
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SPECIAL REQUIREMENTS FOR
SECTIONS 15000
MECHANICAL WORK

1.1 GENERAL CONDITIONS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections apply to work specified in these Sections; consult them in detail for applicable instructions.

B. Manufacturers referenced in the technical specifications are for the purpose of establishing a standard of quality. Alternate manufacturers providing the same quality equipment will be given consideration by the Engineer and Architect if they are notified in writing at the time of bid.

1.2 CODES AND STANDARDS

A. All workmanship and material shall conform to the rules and regulations of the current editions of the regulating agencies listed below and regulations of the local utility companies. These rules, regulations and codes shall govern in the event of conflict. In the event of conflict between the Contract drawings or specifications requiring workmanship or material of a higher quality than required by the above mentioned rules, regulations and codes, the most stringent shall apply.

2015 NJ UCC
2015 International Building Code
2015 International Fuel Gas Code
2015 International Mechanical Code
2015 National Standard Plumbing Code
NFPA – National Fire Protection Association
AMCA – Air Movement and Control Association, Inc.
SMACNA – Sheet Metal and Air Conditioning Contractors National Association, Inc.
ASHRAE – American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.
ASSE – Associated General Contractors of America
NEC – National Electrical Code of the NFPA
NEMA – National Electric Manufacturers Association
National Board of Fire Underwriters
AABC – Associated Air Balance Council
ARI – Air Conditioning and Refrigeration Institute
UL – Underwriter's Labs
Local Utility Requirements
PDI – Plumbing and Drainage Institute
ASSE – American Society of Sanitary Engineering
ASTM – American Society for Testing Materials
The Owner's Insurance Underwriter

During this work, this Contractor shall be responsible for maintaining safety among persons in his employ in accordance with the standards set by the OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. The Engineer shall be held harmless for any accident, injury, or any other incident resulting from non-conformance with these or any other standards.

1.3 QUALITY ASSURANCE

A. The Contractor shall use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of these Sections.

B. Without additional cost to the Owner, the Contractor shall provide such other labor and materials as are required to complete the work of this Section in accordance with the requirements of governmental agencies having jurisdiction, regardless of whether such materials and associated labor are called for elsewhere in these Contract Documents.

C. Engineering Drawings are symbolic and diagrammatic in nature and are intended to show only the general scheme, equipment involved, and the approximate locations and dimensions of the equipment. For exact locations and dimensions, the Contractor shall review all Drawings provided, including Architectural and Structural Drawings, Reflected Ceiling Plans, Plumbing, Fire Protection, Electrical and HVAC Drawings to confirm all requirements. It is the Contractor's responsibility to confirm that all equipment will fit. Any discrepancies or inconsistencies are to be reported immediately to the Architect and the Engineer for clarification. No extras or allowances will be made for such items after bid submission.

D. Prior to bid, an examination of the site shall be made by the Contractor, who shall compare it with the Drawings and Specifications and who shall satisfy himself as to the conditions under which the Work is to be performed. No allowance shall subsequently be made for any extra expense incurred due to failure or neglect to make such examination.

E. During the execution of work under this Contract, the Contractor shall be responsible for protecting any equipment or structures in the work areas.

F. All Work shall be guaranteed to be free from leaks or defects. Any defective materials or workmanship as well as damage to the work of all trades resulting from the same shall be replaced or repaired as directed for the duration of stipulated guarantee periods.

1.4 SUBMITTALS

A. Comply with pertinent provisions of General Documents.

B. PRODUCT DATA: Within the designated time period after the Contractor has received the Owner's Notice to Proceed, submit:

1. Materials list of items proposed to be provided under this Section with sources of supply and manufacture.
2. Manufacturer's specifications, catalog cuts, and other data needed to prove compliance with the specified requirements.
3. Product substitutions are to be requested in writing, and only in conformance with General Conditions procedures. At the time of submission of cuts for review for all substitutions, clearly indicate Specification Section, provide complete information on the original product and the proposed product for review, and all deviations.
- a. Any substitutions requested by a contractor are to include all costs for related changes by other contractors. It is the responsibility of the contractor requesting the change to coordinate with any other trade impacted by the substitution.

C. SAMPLES

1. When so requested by the Engineer, promptly provide samples of items scheduled to be exposed in the final structure.
2. When specifically so requested by the Contractor and authorized by the Engineer, authorized samples will be returned to the Contractor for installation on the Work.

D. SHOP DRAWINGS

1. Prepare and submit Shop Drawings, showing at a scale not smaller than 3/8" = 1' 0" all details of items to be shop fabricated, field coordinated or which interface with existing conditions, under of this Section.
2. Clearly identify by circle and by note "DEVATION" and by note "INTERFERENCE", in large, bold lettering, any deviations from Drawings and Specifications and any potential or unresolved interference condition and assume full responsibility for failure to do so.
3. Submittal shall confirm fabrication and installation is in accordance with recommendations and applicable codes.

E. Corrections or comments made on shop drawings and submittals during review do not relieve the Contractor from compliance with the drawings and specifications. This check will only be for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor shall be responsible for confirming and correlating all quantities and dimensions, selecting fabrication process and techniques of construction, coordinating his work with that of all other trades, and performing his work in a safe and satisfactory manner.

F. MANUALS: Upon completion of the work of this Section, the Contractor shall deliver to the Architect four copies of an operation and maintenance manual compiled in accordance with the provisions of General Conditions, and these Specifications.

1. Include within each manual a copy of the Project Record Documents showing all work of the Section.
2. Include detailed operating and maintenance instructions.

G. AS-BUILT DRAWINGS: concurrent with the progress of the work, the Contractor shall maintain a set of as built record shop drawings noting in red all changes in the work. Upon completion of the work this set/s shall be to be turned over to the Owner for his records.

H. All required permits, fees and inspections shall be arranged and paid for by the Contractor. The Contractor shall present to the Owner, properly signed, all required certificates of final inspection and approval before the work will be accepted as complete.

I. COORDINATION: Each Contractor shall be responsible for coordinating their work with that of all other trades. No installation shall take place without approval of onsite entity (General Contractor, Construction Manager, etc.) responsible for coordination. Any work installed without approval and which interferes with the work of other trades that have been approved shall be removed and replaced at the Contractor's expense.

1.5 INSTRUCTION

A. After all work is completed, the Contractor shall instruct employees designated by the Owner in the proper operation and maintenance of the equipment and systems installed under this Contract.

1.6 GUARANTEE

A. The Contractor shall guarantee his work for a period of one year after date of completion as witnessed by receipt of final payment. The Contractor shall promptly repair and make good any damage to the work or any other Contractor, during that period, that may be caused by defective materials or workmanship. Any defects in materials and workmanship shall be corrected by the Contractor without further expense to the Owner. He shall deliver to the Architect or Owner said written guarantee upon receipt of final payment.

1.7 DEBRIS REMOVAL

A. Routinely remove, in an orderly and efficient manner (and cart away and dispose of, by legal means, off the site and premises), all debris related to work of this Section; work site and staging areas shall be kept clear of all debris on a daily basis; permit no debris accumulation which poses any threat to life, safety or property. Non-conformance with the foregoing Contract requirements will be subject to all remedies established by the Owner and Architect.

SECTIONS 15600
HVAC SPECIFICATIONS

1. GENERAL

A. It is not intended that the plans or specifications show or state every detailed requirement of the work, but rather that they furnish adequate information for the Contractor to make a completely approved installation. The Architectural General Conditions and Special Requirements for Mechanical work (Section 15000) form a part of these specifications whether attached hereto or not and shall be carefully examined before submitting proposal. Where General Conditions clauses are repeated in this section, it shall be understood as calling special attention to them, or as a further qualification and shall not be assumed as omitting any other clauses. No General Conditions referring to work included herein shall be considered as voided unless specifically stated herein.

B. Before submitting proposal, examine all plans relating to this work, verify all governing conditions at the site, become fully informed as to the extent and character of the work required and its relation to existing conditions and work of others. No consideration or additional payments will be granted for any alleged misunderstanding of the materials to be furnished or work to be done, it being understood that the submission of a proposal is an agreement to all conditions referred to herein or indicated on the plans. All work shall be carefully coordinated and scheduled to prevent undue inconveniences. All work which will not be permitted during normal working hours due to scheduling, etc., shall be scheduled to be performed on overtime at no additional cost.

C. Proposal must include everything required to provide a complete installation as contemplated in the specifications and plans, whether specifically shown and specified or not. Included are all labor, equipment, materials, light, tools, scaffolding, transportation, insurance, sales tax, permits, certificates, inspections, testing equipment, etc., necessary for the complete installation of every-thing described, shown or reasonably implied.

D. Review all plans and specifications relative to this work, and become familiar with work called for therein. At the conclusion of the work, be responsible for the proper condition of existing conditions and/or installed under this contract. It is the intention of these specifications and plans to furnish enough information for the Contractor to provide and place in service a complete HVAC system and installation.

E. Bidders, before submitting proposals, shall visit and carefully examine those portions of the site and/or present buildings affected by this work so as to familiarize themselves with existing conditions and difficulties that will attend the execution of the work. These difficulties include availability of the equipment and materials.

F. Submission of a proposal will be construed as evidence that such examination has been made and later claims for labor, equipment or materials required because of difficulties encountered, which could have been foreseen had such examination been made, will not be recognized.

2. SCOPE OF WORK

A. The work shall include but not be limited to the following –

1. Furnish and install all variable volume variable temperature terminal units with supplementary electric heating coils.
2. Furnish and install all ductwork, duct insulation and air outlets as shown on the drawings or as specified.
3. Furnish & install Fire Dampers in all fire rated walls whether or not as shown on drawings.
4. Furnish and install volume dampers as shown on the drawings and/or as required to balance system.
5. Provide shop drawings for all ductwork, controls, mechanical equipment and accessories being installed.
6. Furnish and install all necessary sleeves, inserts, hangers and supports.
7. Furnish & install all exhaust fans.
8. Furnish and install a complete electric/electronic automatic temperature control system including all wiring as specified.
9. Engage the services of an approved air balancing company to balance the systems and issue an air balancing report.
10. Cutting and rough patching.
11. Obtaining and paying for all necessary permits, inspections and certificates required in connection with this work.
12. Guarantee all work for a period of one year from the final date of acceptance.
13. As built drawings.

3. WORK NOT INCLUDED

- A. The following items of work shall be provided under other contracts:
 1. Finished patching and painting.

4. SHOP DRAWINGS

- A. Submit shop drawings covering the following items:
 1. Air outlets.
 2. Hangers and supports.
 3. Sheetmetal ductwork, dampers, fire dampers.
 4. Air balancing report.
 5. All HVAC equipment specified in the schedules.
 6. Automatic Temperature Controls
 7. Insulation
 8. Vibration isolation and Seismic Restraints.
 9. Filters

5. INSTALLATION

- A. All work and materials shall be provided as shown and herein specified and shall be in accordance with the latest applicable edition, New Jersey Uniform Construction Code, the 2009 International Building Code, The 2009 International Mechanical Code and all authorities having jurisdiction.
- B. This Contractor shall provide proof of adequate insurance to hold Owner, Architect, and Engineer harmless for any liability claims arising from performance of his work.
- C. This Contractor shall take all necessary precautions to prevent unnecessary damage to building structure and protect building contents and occupants.
- D. For exact location of partitions, soffits, etc., refer to the architectural drawings.
- E. The work under this contract shall be performed simultaneously with work of other trades, so as not to delay the overall progress of work. The work of all trades shall be phased in accordance with phasing notes on the drawings.
- F. The systems shall be left in perfect working order upon completion of work.

- A. All ductwork gauges, and installation shall conform to the latest edition of SMACNA standards.
- B. This Contractor shall not interrupt any of the services of the existing building nor interfere with the services in any way without the expressed permission of the Owner. Such interruptions and interferences shall be made as brief as possible and only at the time stated by the Landlord.
- I. Unnecessary noise shall be avoided at all times and necessary noise shall be reduced to a minimum.
- J. This Contractor shall arrange the work continuously including over-time, if required, to assure that service will be shut-down only during the time actually required to make the necessary connections to existing work.
- K. This Contractor shall give ample written notice in advance to the Owner of any requested shutdowns.
- L. The breaking into existing work shall be done only after approval has been received from the Owner.

6. TESTS AND BALANCING

- A. The work of this Contractor shall include the furnishing of all testing instruments, gauges, and other equipment required for necessary tests, required by law, rules and regulations and as specified.
- B. Hotwater piping shall be tested hydrostatically at 100 psi for 4 hours. No visible leaks shall occur during test period.
- C. Provide all other test required by Building Department, Fire Department and all other public agencies having jurisdiction.
- D. Tests shall be performed in the presence and to the satisfaction of the Architect and such other parties that may have legal jurisdiction.
- E. Operate the installation after completion for period necessary to make all required adjustments for automatic controls, air outlets and fans, until all performance characteristics are met.
- F. Engage the services of approved air balancing company to balance all existing & new systems and issue an air balancing report for engineer's approval. The report should be certified by a New Jersey registered professional engineer and the test should be performed by a person having a minimum of 5 years experience in testing and balancing air systems.
- G. Upon completion of the installation, the air balance and testing subcontractor shall make the necessary adjustments to balance the system. Provide an extra manual volume damper required for proper air balance.
- H. At the completion of the test, the Contractor shall furnish the Architect seven copies of the final test report, these copies shall be complete with single line diagrams and all required traverse or flow readings at main ducts and branches.

7. INTERNAL ACOUSTIC LINING

- A. Furnish and install sound absorptive lining in ductwork for locations and lengths as indicated and/or hereinafter specified. All soundproof material, installation and arrangement, shall be as authorized. Where ducts are acoustically lined, insulation shall be omitted for extend of acoustic lining. Dimensions noted for lined ducts are inside clear dimensions. Duct sizes shall be increased for liner.
- B. Sound Absorbent Duct Lining for low pressure ductwork – Furnish and install as herein specified and/or shown on the drawings (except where otherwise noted) 2" or 1" thick as indicated herein or on the drawings 1-1/2 lb. density, fibrous glass duct lining meeting the requirements of NFPA 90A.
- C. Liner shall be adhered to all interior sides of duct with minimum 100% coverage of fire-retardant adhesive similar to Benjamin Foster 4 and with weld pins and washers or equivalent mechanical fastening starting 3" from edges and sides, 12" on center all sides. Minimum one row per side for duct size of 12" or less. Mechanical fasteners shall be toward air stream. Before installing liner, seal all butting edges and find edges with heavy coat of adhesive to seal off air between lining and duct. All exposed edges of lining shall be installed with sheet metal nosing 1-1/2" wide, two gauges heavier than duct, installation shall be suitable for duct velocities up to 3,500 fpm. Low pressure duct lining shall be provided where specified and/or where shown and noted on the drawings.
- D. Duct sizes indicated on drawings are clear inside dimensions. Increase sheet metal sizes as required to accommodate thickness of acoustic lining.
- E. The following ductwork shall be acoustically lined whether or not shown on drawings.
 1. All supply ductwork from all VAV terminal units to air outlets.
 2. All ductwork downstream of RTU's not less than 25 feet from unit discharge and 25 feet from unit intake.

8. SHEET METAL WORK

- A. All ductwork, unless otherwise noted, shall be built from galvanized sheet steel and thoroughly braced and stiffened. All ductwork shall be constructed as low pressure ductwork (2" w.g.).
- B. The construction for sheet metal ducts shall be made in accordance with recommendations of ASHRAE Guide, Latest Edition, or as per SMACNA Manual. All branches and take-offs shall have volume dampers.
- C. Contractor shall seal all the ductwork at joints with 3M EC-800.
- D. Provide volume dampers at all branch take offs.
- E. Round ducts shall be galvanized steel spiral construction only, and shall be constructed in accordance with McGill or authorized equal, and shall be constructed in accordance with Section III and Tables 3-2 and 3-3 of SMACNA manual. 15d for minimum of 2" W.G. static pressure positive, and 2" W.G. negative; and shall include metal gauges, reinforcing fittings, connections, access doors and other accessories.
- F. Fittings shall be SMACNA construction.
- G. Provide access doors in ductwork to facilitate access to smoke detectors and other equipment mounted in ducts.
- H. Flexible ductwork may be used for connections to supply diffusers only and shall be as manufactured by Thermoflex, Wirmold, Genflex, or authorized equal. Duct shall be continuous and insulated with 1" thick fibrous glass insulation having an outer moisture barrier consisting of a reinforced metallized Mylar/Neoprene laminate with integral attaching devices. Minimum pressure rating shall be 6" W.G. positive and 1" W.G. negative. Operating temperature range shall be -20 to +250° F. Thermal conductance: 0.23 BTU/hr/SF/°F at 75° F.

9. DUCTWORK INSULATION

- A. Insulation for Concealed Duct
 1. The following ductwork shall be insulated (except where acoustically lined)

SERVICE	THICKNESS
Supply air	1-1/2" with vapor barrier
 2. Except where otherwise noted, all concealed rectangular and round ductwork shall be covered with flexible duct insulation with vapor barrier and of the thickness indicated below.
 3. Flexible duct insulation with vapor barrier shall be 1 lb. per cu. ft. density glass fiber with a maximum K factor of 0.29 at 75 Deg. F, mean temperature, with reinforced fat-faced, flame resistant kraft vapor barrier.
 4. Insulation with vapor barrier shall be duct wrap insulation FRK-25, type 100 as made by Owens-Corning or Marville Microlite with FRK vapor barrier facing or standard duct insulation as made by CGG with FRK facing
 5. Adhere insulation to duct with Foster fire resistant vapor barrier adhesive or approved equal and joints without tabs shall be firmly sealed with aluminum foil tape adhesive having same adhesive. Secure insulation with 18 gauge corrosion resistant wire spaced not more than 18 inches on center.
 6. Additionally, secure insulation to bottom of rectangular ducts over 24" wide with welded pins or stick clips on 18" centers.
 7. All ductwork exposed to the weather shall be insulated and weather proofed with .016 smooth aluminum facing by Chluders with baked enamel finish.

10. AUTOMATIC TEMPERATURE CONTROLS

- A. This contractor shall provide a control system compatible with the existing Daikin rooftop unit, all terminal devices and building system standard. Coordinate with building control vendor.
- B. The ATC contractor shall provide:
 - a. Field coordination with the provided equipment for proper operation.
 - b. Field installation & wiring of all necessary hardware in compliance with this specification.
 - c. Field analysis of the conditions to which would prohibit the functional operation of the control system as designed and specified and provide any such deviations to the engineer for review/comment.
 - d. Provide programming, interface design, startup services by competent technicians that regularly employed by the ATC contractor with full responsibility for proper operation of the control system including debugging & proper calibration of each component in the entire system
 - e. Provide power supply wiring to all external DDC control panels, actuators (valves, dampers, etc.), including low voltage transformers.
- C. The ATC system shall consist of a programmable, multiple zone communicating Monitor thermostat, multiple Zone Controllers. The system shall also include a complete array of input and output devices. The system shall provide full control of HVAC heating and cooling equipment in a multiple zone application. The System shall be capable of operating as a stand-alone system or networked with multiple systems connected on a communications bus.
- D. The control system shall be available as a complete package with the required input sensors and devices readily available. The system shall be capable of providing complete control of HVAC functions: variable air zone control, bypass air control in both pressure dependent and pressure independent applications. Inside controls shall be capable of operating VAV terminal boxes with supplemental heat sources at the zone. Unit control relay packs shall be available factory mounted with direct connection to field installed Monitor thermostats.

E. Mode Enable Sensor

- In a standard VAV application the Supply Air Temperature (SAT) sensor is configured as the Mode Enable Sensor during the Occupied Mode.
 - In this configuration, upon entering the Occupied Mode (after a Morning Warm-Up/Cool-Down cycle) the unit operates in the Cooling Mode and controls to the SAT Cooling Setpoint.
- F. Occupied Operation
- To initiate the Occupied Mode of Operation for the VCB-X:
- Internal Week Schedule.
- G. Scheduling
- Has an internal 7 day schedule with up to 2 start/stops events per day.
 - Allows scheduling of up to 14 holiday periods per year.
- H. HVAC Modes of Operation
- There are 7 possible HVAC Modes of Operation:
- Cooling Mode
 - Heating Mode
 - Vent Mode
 - Dehumidification Mode
 - Morning Warm-Up
 - Off Mode

I. Cooling Mode with Digital Scroll Compressor and Optional Fixed Compressor (s)

- In the Cooling mode, as the Supply Air Temperature (SAT) rises above the Active SAT Cooling Setpoint (see Supply Air Temperature Setpoint Reset section for explanation), the Digital Compressor will stage on and modulate to control to the Active SAT Cooling Setpoint.
- If additional cooling is required, fixed compressor stages can be staged on while the Digital Compressor continues to modulate.
- To stage up the extra compressor(s), the SAT needs to be above the Active SAT Cooling Setpoint and the Digital Compressor needs to be at 100% for a period of time equal to the Stage Up Delay. Once a fixed compressor is enabled the digital compressor signal will go to 50% and modulate as needed. This will repeat as additional fixed compressors are staged up.
- For compressors to stage on, Minimum Off Times (adj.) must be satisfied as well as Stage Up Delays (adj.).
- To stage down the extra compressor(s), the SAT needs to be below the Active SAT Cooling Setpoint minus the Cooling Stage Control Window and the Digital Compressor needs to be at 30% for a period of time equal to the Stage Down Delay. Once a fixed compressor stages off the digital compressor will go to 50% and modulate down as needed. This will repeat as additional fixed compressors stage off.

• For compressors to stage down, Minimum Run Times (adj.) must be satisfied as well as Stage Down Delays (adj.). The digital compressor is always the last compressor to be deactivated.

• Mechanical cooling is disabled if the outdoor air temperature (OAT) falls 1° below the Cooling Lockout Setpoint and will remain disabled until the OAT rises 1° above the Cooling Lockout Setpoint. If the OAT disables mechanical cooling while it is currently operating, mechanical cooling will stage off as minimum run times and stage down delays are satisfied.

• If the Economizer is enabled it will function as the first stage of cooling (see Economizer section).

J. Heating Mode

- Heating via Modulating Gas
- For normal VAV applications the Heating Mode can be initiated during Morning Warm-Up or Unoccupied (Night Setback) Heating. For a VAV applications where Occupied Heating is needed see section VAV Operation with Outdoor Air Temperature Control". See each of those sections to see how Heating Mode is initiated in those applications.

• Once in the Heating Mode, the unit will stage or modulate heating to maintain the appropriate Heating Supply Air Temperature (SAT) Setpoint. Each stage must meet its Minimum Off Time (adj.) before it is allowed to energize and successive stages are subject to a Heating Stage Up Delay (adj.).

• Heating stages will continue to run until the supply air temperature rises above the Active SAT Setpoint plus the Heating Stage Control Window at which point the heating will begin to stage off. Each stage must meet its Minimum Run Time (adj.) before it is allowed to stage off and successive stages are subject to a Heating Stage Down Delay (adj.).

• Mechanical heating is disabled if the outdoor air temperature (OAT) rises 1° above the Heating Lockout Setpoint and will remain disabled until the OAT falls 1° below the Heating Lockout Setpoint. If the OAT disables mechanical heating while it is currently operating, mechanical heating will stage off as minimum run times and stage down delays are satisfied.

K. Morning Warm-Up Mode

• Morning Warm-Up can be configured for any application but should not be used on 100% Outdoor Air Units, since the Outdoor Air Damper remains closed during Warm-Up.

• This mode occurs when the unit goes from the Unoccupied to the Occupied Mode and the Return Air Temperature is below the Morning Warm-Up Target Setpoint.

• In this mode the unit operates in the Heating Mode as described above.

• During Morning Warm-Up, Heating is controlled to a Warm-Up Supply Air Setpoint. Otherwise, it operates in the Heating Mode as described above.

• This mode remains in effect until the Return Air Temperature rises above the Morning Warm-Up Target Temperature or until a user adjustable Time Period elapses.

• If there are VAV boxes with Orion controls communicating to this VAV unit controller, those VAV boxes are driven either to full open or to a fixed position.

• The Outdoor Air Damper remains closed during this mode.

L. Ventilation Mode

• This mode is only available in the Occupied Mode of operation on units configured for continuous supply air operation and is generated anytime the no demand is called for heating or cooling. The fan will operate at the configured Minimum Vent speed.

M. Off Mode

- Off Mode occurs in the Unoccupied Mode when there is no heating, cooling or dehumidification demand.
- The Supply Fan is off and the Outside Air Damper is closed.

N. Economizer Operation

• Available when Outdoor Air (OA) drybulb, wetbulb, or dewpoint temperature is below the Economizer Enable Setpoint by 1° and the OA temperature is at least 5° below the return air temperature.

• Economizer operation is disabled when the OA temperature rises 1° above the Economizer Enable Setpoint.

• Wetbulb or dewpoint operation requires an Outdoor Humidity Sensor.

• Economizer acts as 1st stage of cooling and controls to the Active Supply Air Cooling Setpoint. If the economizer reaches 100% and the supply air temperature is still above setpoint, mechanical cooling is allowed to stage up while the economizer is held at the full open position.

• An Economizer Minimum Position can be programmed into the controller.

• Closed during Unoccupied Mode, except when Unoccupied free cooling is required.

O. Supply Fan Operation

- Occupied Mode – the Supply Fan can be configured to run continuously or to cycle with Heating, Cooling, or Dehumidification.
- Unoccupied Mode – the Supply Fan will cycle on a call for Heating, Cooling, or Dehumidification.
- Anytime the Supply Fan is requested to start, a 1 minute minimum off timer must be satisfied. If the timer is satisfied, the Supply Fan relay is activated while all other output are held off until their minimum off timers have been met.
- When going into Occupied Mode, an optional Purge Mode is initiated. The fan runs with the Economizer closed, and all Cooling and Heating is de-energized. The length of the Purge Mode is user-adjustable.
- In fan cycle mode or when going unoccupied the supply fan is held on for 2 minutes after the last stage of heating or cooling stages off.

P. Duct Static Pressure Control

• The VCB-X Controller can be used to control a Supply Fan VFD or an actuator to maintain a Duct Static Pressure Setpoint.

• The Duct Static Pressure Setpoint, the Setpoint Deadband, the Static Pressure Control Signal, and the Static Control Rate are all user-adjustable.

Q. Proof of Flow Interlock

• A Proof of Flow switch (by others) provides a 24 VAC wet contact closure when the supply fan is operating.

• If this contact opens while the fan is being called to run, all heating and cooling is disabled and a Fan Proving Alarm is generated.

R. Dirty Filter Status

• A differential pressure switch (by others) is used to provide a 24 VAC wet contact closure to indicate a dirty filter status. A Dirty Filter Alarm is then generated.

S. Emergency Shutdown

• A 24 VAC wet contact input is available to be used with a N.C. Smoke Detector, Firestat, or other shutdown condition (all by others).

• If this contact opens it will initiate shutdown of the VCB-X and will generate an alarm condition. This contact closure does not produce an instantaneous shutdown.

• For instantaneous shutdown the device initiating the open condition on this contact should also be wired to cut the 24 V common to the VCB-X relay outputs.

T. Outdoor Air Lockouts

• Mechanical cooling is disabled when the Outdoor Air Temperature is below the Cooling Lockout Setpoint.

• Mechanical heating is disabled when the Outdoor Air Temperature is above the Heating Lockout Setpoint.

• For Air to Air Heat Pumps, compressor Heating will be disabled below the Heat Pump Lockout.

U. VAV Box Compatibility

When the system Controller is configured for VAV operation and is used in conjunction Controls VAV/Zone Controllers the following features are available:

• Can respond to Unoccupied overrides and Unoccupied heating and cooling calls from box controllers.

• Broadcasts the Supply Air Temperature to the boxes so they can use that information to determine Warm-Up Mode or Heating/Cooling/Vent Mode of operation.

V. Relay Outputs

- There are 22 relay outputs that are configurable for the VCB-X Controller and Expansion Boards.
- Relay #1 is reserved for the Supply Fan and is not configurable.

The configuration options are as follows,

Digital Compressor	Pre-Heat
Cooling Stage	Low Ambient
Condenser	Economizer Active
Heating Stage	Occupied Active
Heat Pump Compressor	Override Active
Reversing Valve	Alarm Active
Aux Heat	Morning Warm-Up/Cool-Down (VAV Boxes)
Emergency Heat	Reheat
Mod Heat Enable	Exhaust Fan
Mod Cool Enable	Heat Wheel
Economizer (Outdoor Air Damper Relay)	
This Relay energizes when the unit is in Economizer Mode.	
Occupied, Alarm, Override Relays	
• Occupied Relay – enabled anytime the unit goes into the Occupied Mode	
• Alarm Relay – enabled anytime a VCB-X alarm is active	
• Override Relay – enabled anytime a space sensor pushbutton override is active	

W. Alarm Detection and Reporting

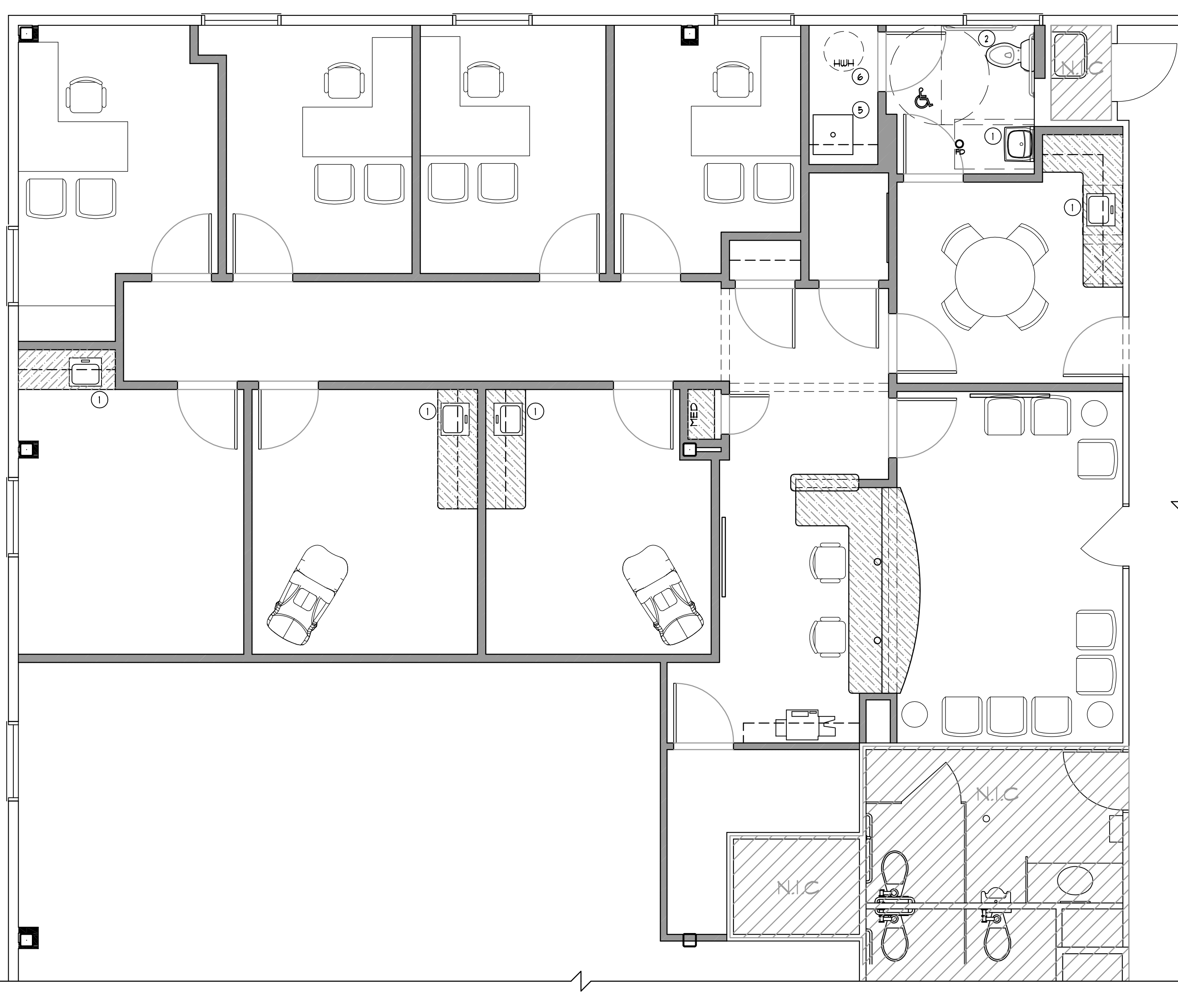
• Continuously performs self diagnostics during normal operation.

• Failures are reported to a Touch Screen System Manager, a Hand Held Modular Service Tool, or to a computer running Prism 2 software.

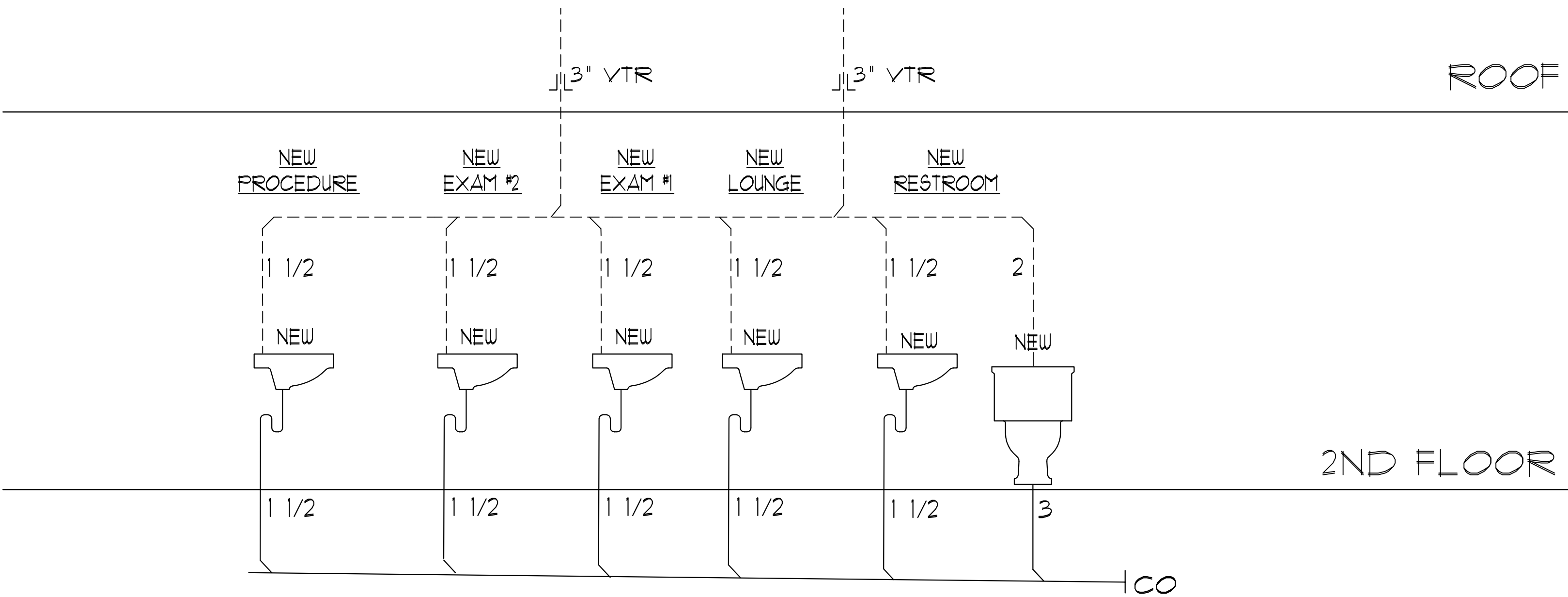
• Diagnostic LEDs generate blink codes for certain alarm conditions.

X. The following are the available alarms,	
Bad SAT Sensor	Mechanical Cooling Failure
Bad OAT Sensor	Mechanical Heating Failure
Bad Space Sensor	Fan Proving Alarm
Missing Main Expansion Board	Dirty Filter Alarm
Missing CO2 Sensor	Emergency Shutdown
Bad Compressor Discharge Sensor	High Supply Air Temperature Cutoff
Missing Suction Pressure Sensor	Low Supply Air Temperature Cutoff
Missing Outdoor Airflow Sensor	High Control Temperature
Missing Exhaust Airflow Sensor	Low Control Temperature
Missing Supply Air Airflow Sensor	Digital Compressor Cutoff
Missing Return Air Airflow Sensor	Digital Compressor Lockout
Missing MHGRV-X Board	High Head Pressure
Missing MODGAS-X Board	Unsafe Suction Pressure
Missing 12 RLY Board	WSHP Low Water Temperature
Missing ModGas Board	WSHP Proof of Flow
Missing 12 Relay Board	WSHP Low Leaving Water Temperature
	Low Suction Pressure
	Unsafe Suction Pressure

11. NOISE CONTROL
 - A. All installation shall be in a manner that the N.C. level in the space shall not exceed 35 d



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



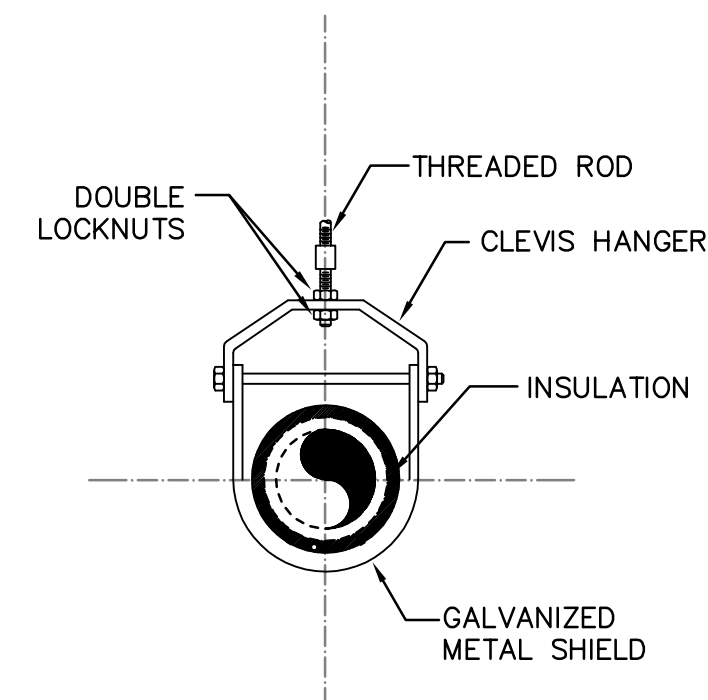
2 PLUMBING RISER
SCALE: 1/2" = 1'-0"

PLUMBING KEY NOTES:

1. PROVIDE 1 1/2" WASTE, 1 1/4" V RISE, 1/2" HW/CW CONNECTIONS FOR SINK.
2. PROVIDE 3" WASTE, 2" V RISE, 1" CW CONNECTIONS FOR WATER CLOSET WC1.
3. PROVIDE 2" WASTE, 1 1/2" V RISE, 3/4" CW CONNECTIONS FOR URINAL
4. NOT USED.
5. PROVIDE 2" WASTE, 1 1/2" V RISE, 1/2" TP (FROM TRAP PRIMER) FOR FLOOR DRAIN.
6. PROVIDE 3" WASTE, 1 1/2" V RISE, 1/2" HW/CW CONNECTION FOR MOP SINK.
7. PROVIDE 1 1/2" WASTE, 1 1/4" V RISE, 1/2" CW CONNECTION FOR ELECTRICAL WATER COOLER.

PLUMBING GENERAL NOTES:

1. RUN HOT AND COLD WATER LINES DOWN IN WALLS OR CHASES - BRANCH TO FIXTURES AS REQUIRED.
2. INSULATE ALL HOT AND COLD WATER LINES ABOVE GROUND AND CEILINGS WITH 1" THICK GLASS FIBER INSULATION WITH A FACTORY APPLIED VAPOR BARRIER UNLESS NOTED OTHERWISE.
3. INSTALL STOPS ON EACH WATER LINE AT EACH FIXTURE.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE LOCAL CODE OFFICIAL PRIOR TO EXECUTION OF ANY WORK OR PURCHASE OF ANY EQUIPMENT.
5. INSTALL PIPING AFTER DUCTWORK HAS BEEN PLACED.
6. COORDINATE ALL WORK WITH THAT OF OTHER TRADES; ELECTRICAL, ETC.
7. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT.
8. PROVIDE PRESSURE REDUCING VALVES ON DOMESTIC WATER LINES AS REQUIRED COORDINATE WITH LOCAL UTILITIES.
9. PROVIDE WATER HAMMER ARRESTORS. NO SITE BUILT ARRESTORS ARE ALLOWED.
10. PROVIDE ALL REQUIRED CUTTING AND TRENCHING OF FLOOR. BACKFILL AND PATCH FLOOR TO MATCH EXISTING.
11. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON THE DRAWINGS.

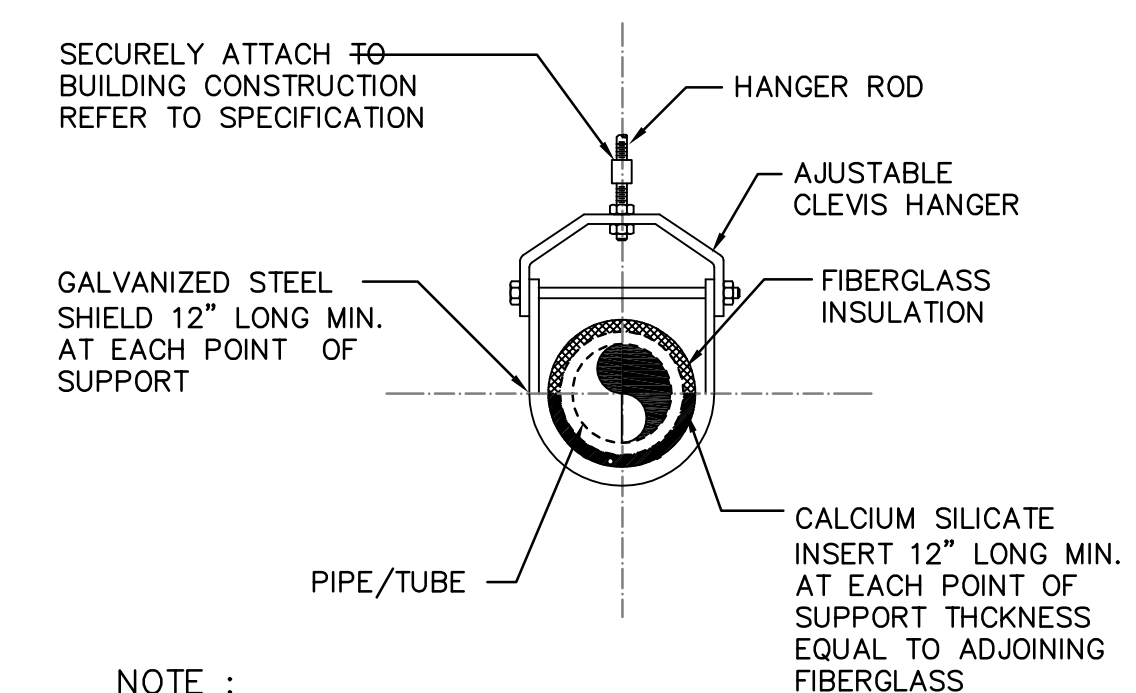


TYPICAL INSULATED PIPE SUPPORT
NOT TO SCALE

WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	6"	18
4" TO 6"	8"	16
8" & LARGER	12"	16

WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	12"	18
4"	15"	16
5"	18"	16
6"	21"	16
8" & LARGER	24"	14

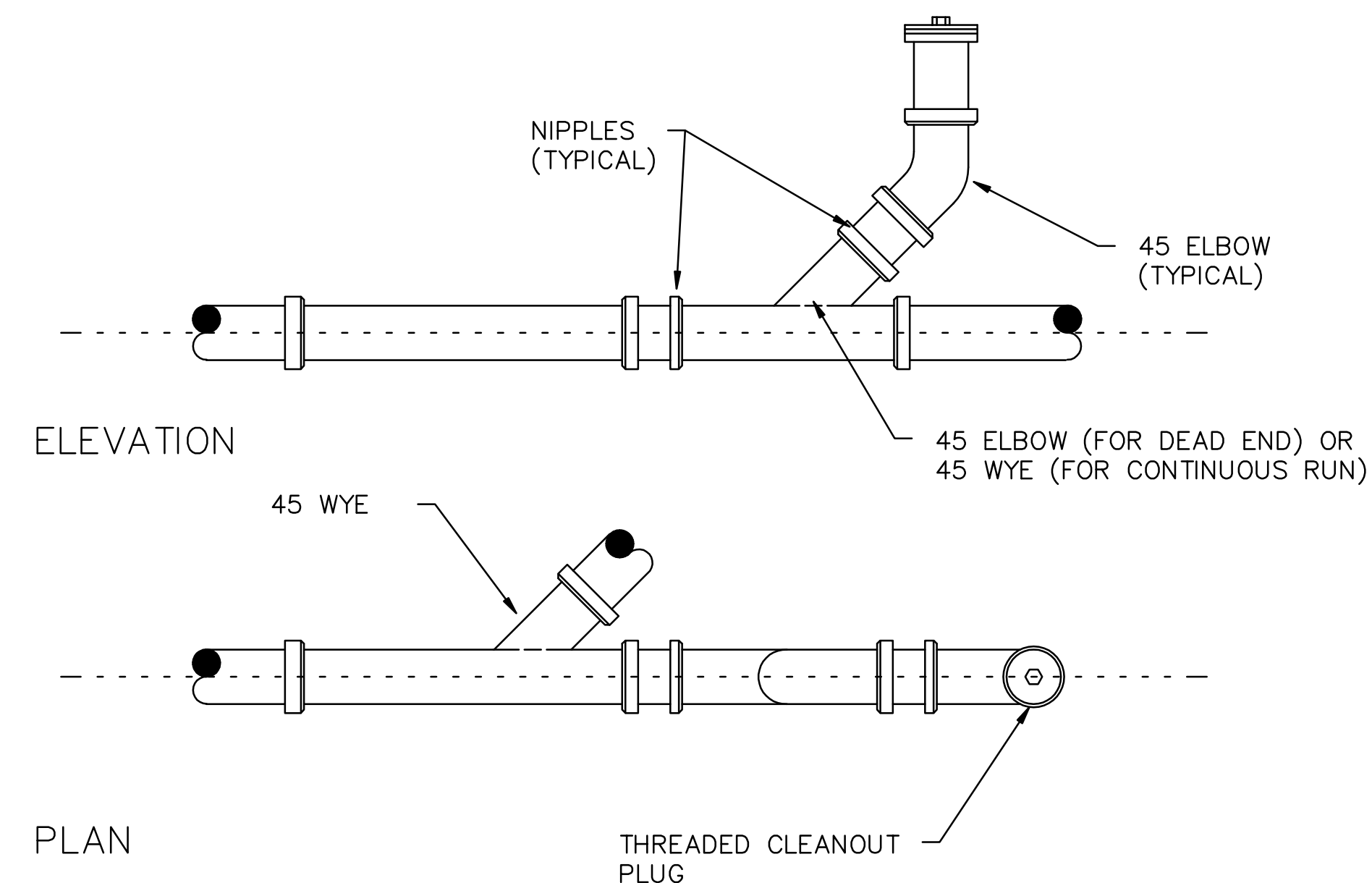
NOTES:
HANGER, ROD & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION



NOTE :

1. USE THIS DETAIL WHEN SUPPORTING INSULATED PIPING AND TUBING LARGER THAN ONE (1) INCH.

ADJUSTABLE CLEVIS PIPE SUPPORT
NOT TO SCALE



3 SEWER AND ROOF DRAIN CLEANOUT
SCALE: NTS



MICHAEL SAVARESE ASSOCIATES
ARCHITECTS
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ISSUES

DATE: DESCRIPTION
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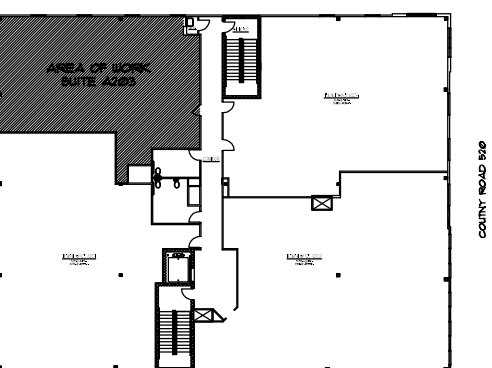
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PROJECT

DR. SADEK

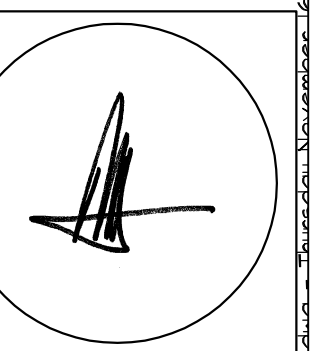
479 ROUTE 520, SUITE A203
MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213
LOT: 8.01
ZONE: OPT 2



SEAL

MICHAEL SAVARESE
N.J. LIC. #1043
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SHEET TITLE:

PLUMBING PLAN
AND DETAILS

JOB NO.:

890-1701

SCALE

AS NOTED

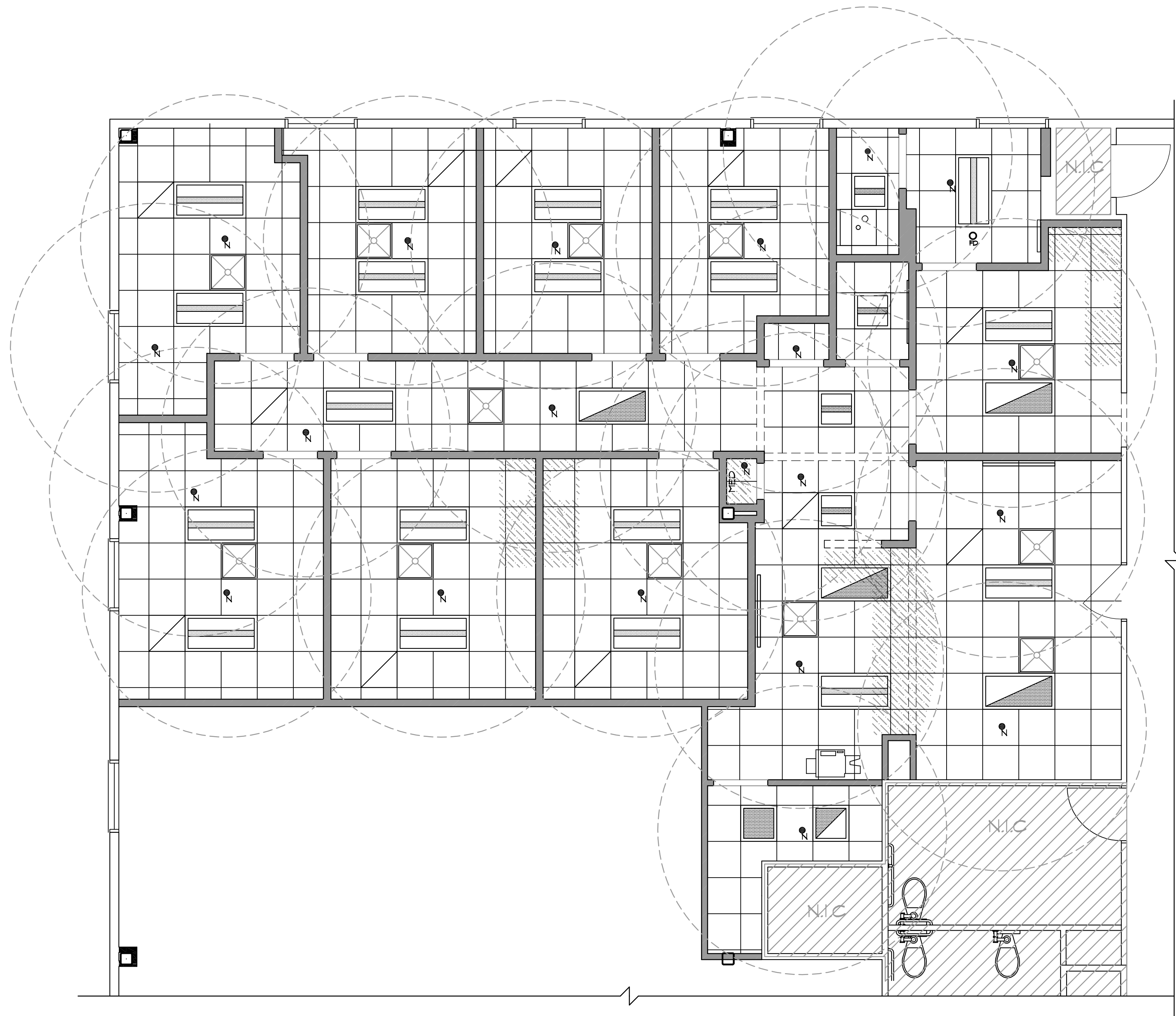
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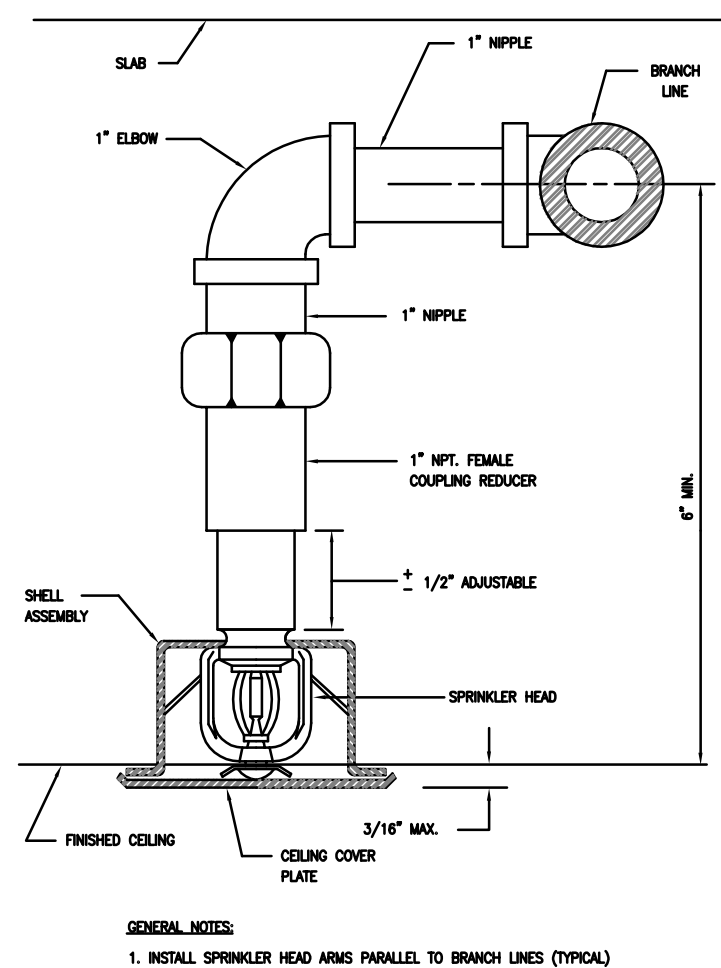
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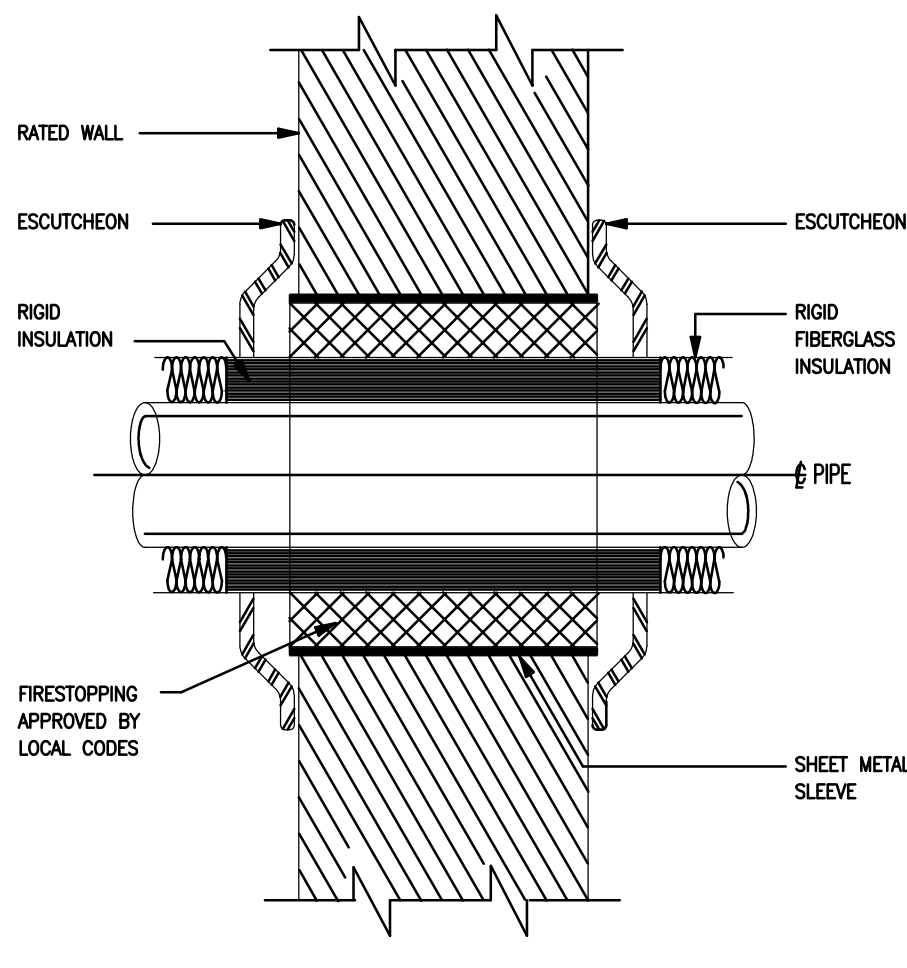
12 OF X



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



2 CONCEALED SPRINKLER HEAD BRANCHLINE CONNECTION
SCALE: NTS



3 PIPE SLEEVE THRU INTERIOR WALL
SCALE: NTS

SPRINKLER LEGEND

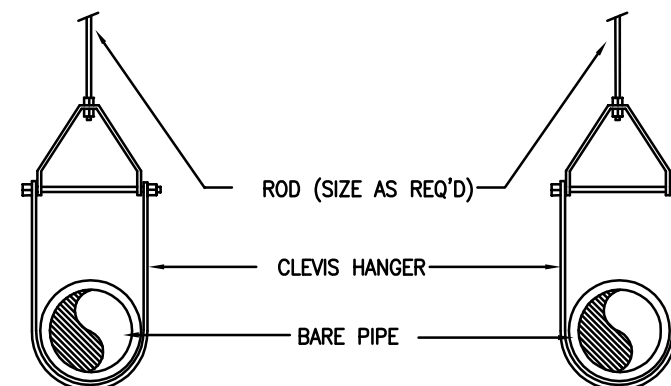
R INDICATES RELOCATED
N INDICATES NEW
D INDICATES DEMOLITION OF EXISTING
E INDICATES EXISTING TO REMAIN

● RECESSED SPRINKLER HEAD

○ SPRINKLER COVERAGE RADIUS

SPRINKLER NOTES

- THIS SPRINKLER DRAWING IS ISSUED FOR DESIGN BUILD PURPOSES, AND IS INTENDED TO BE SCHEMATIC IN NATURE. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE SYSTEM IN COMPLETE COMPLIANCE WITH ALL CODES AND REGULATIONS AND SUBMIT SIGNED & SEALED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS. SEE SPECIFICATIONS FOR DETAILS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO THE INSTALLING OF ANY SPRINKLER HEADS.
- PROVIDE CHROME PENDENT HEADS IN AREAS WITH CEILINGS, VIKING QUICK RESPONSE OR EQUAL.
- PROVIDE UPRIGHT HEADS IN AREAS WITHOUT CEILINGS, VIKING QUICK RESPONSE OR EQUAL.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- COORDINATE THE FIRE PROTECTION SYSTEM WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING A FULL SET OF BID DOCUMENTS AND VISIT THE SITE TO MAKE HIMSELF AWARE OF THE TOTAL JOB BEFORE SUBMITTING HIS PRICE. FAILURE TO COMPLY SHALL NOT HOLD THE OWNER RESPONSIBLE FOR ANY ADDITIONAL COST. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH FACILITY'S BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE NEW WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH HIS APPROVAL.
- CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURER'S DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
- SPRINKLERS IN MECHANICAL ROOM SHALL HAVE A TEMPERATURE RATING OF 212°F. LOCATIONS, NECESSARY FOR INSPECTION AND MAINTENANCE.
- CONTRACTOR TO PROVIDE SPRINKLER SHOP DRAWINGS. SPRINKLER PIPING SHALL BE INSTALLED AS PER APPROVED SHOP DRAWINGS.
- GO TO PROVIDE CODE COMPLIANT RECESSED SPRINKLER CAPS, COLOR WHITE.
- EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL PENETRATIONS, CUTTING, PATCHING, SLEEVES, AND FIRESTOPPING REQUIRED TO COMPLETE THE INSTALLATION OF ALL WORK INCLUDED UNDER THEIR CONTRACT.
- ALL UPRIGHT SPRINKLER HEADS IN MECHANICAL AND STORAGE ROOMS SHALL HAVE HEAD GUARDS.
- UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS, CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA.
- BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE FACILITY AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL ACCEPTANCE OF ALL WORK.
- CONTRACTOR SHALL PROVIDE ALL FITTINGS AND PIPING REQUIRED TO MODIFY EXISTING SPRINKLER MAIN TO ALLOW FOR INSTALLATION OF HVAC DUCT WORK AND LIGHTING FIXTURES.
- OWNER SHALL NOTIFY FDNY OF FIRE PROTECTION SYSTEM DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.



4 TYPICAL HANGER DETAIL
SCALE: NTS



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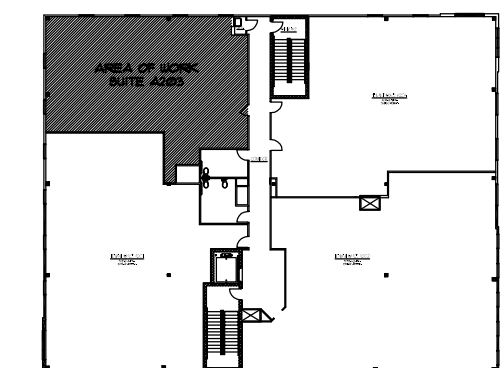
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SPRINKLER PLAN
AND DETAILS

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SCALE

AS NOTED

DRAWN BY

SPK

DATE

11/1/2017

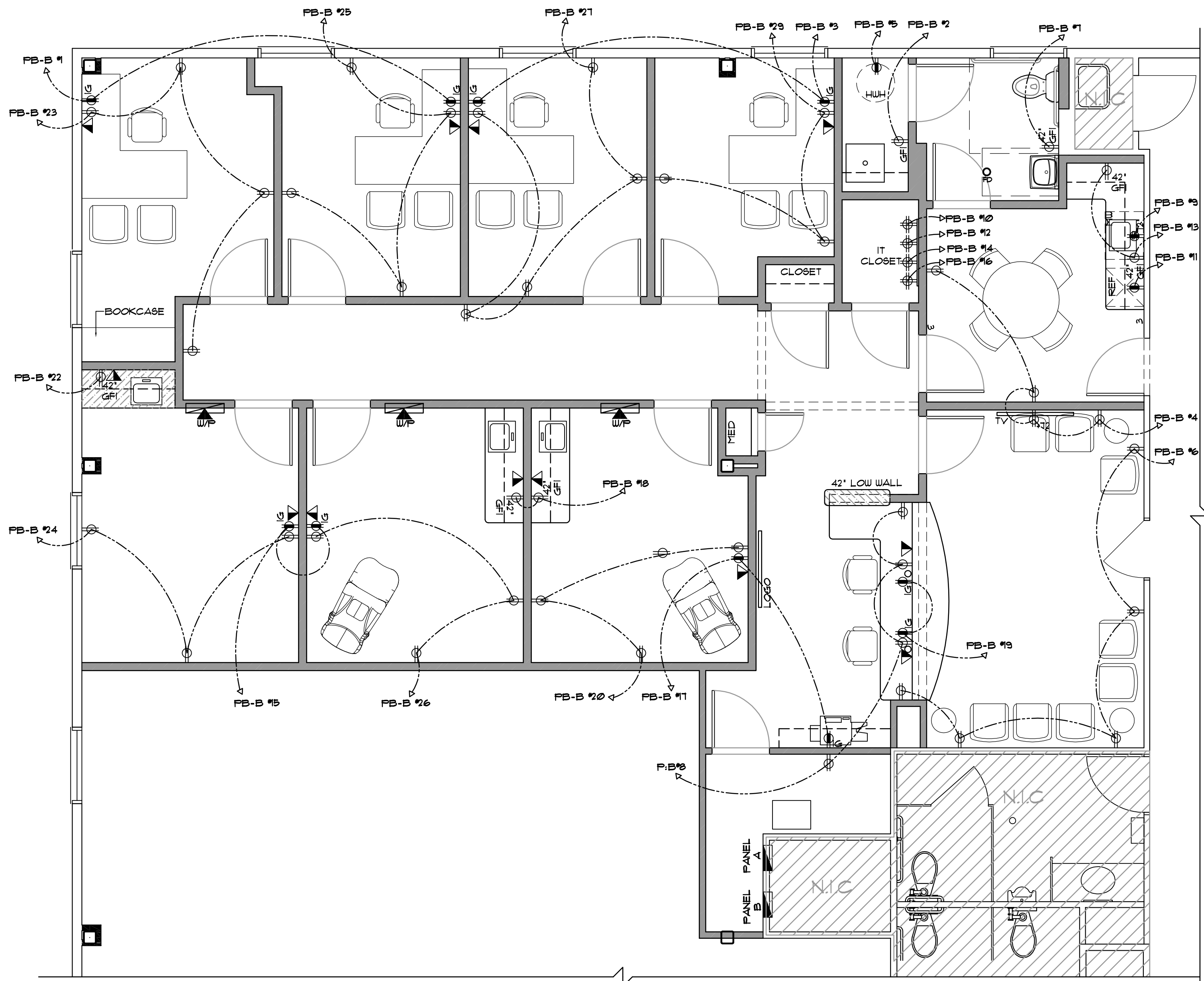
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SHEET NO.

SP-100.00

PAGE

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1 ELECTRICAL & POWER PLAN
SCALE: 1/8" = 1'-0"

EXISTING PANEL: B									
MOUNTING <u>RECESSED</u>						CAT. #: _____			
						BUS RATING <u>200 AMPS MAX.</u>			
						VOLTAGE <u>208Y/120 VOLTS</u>			
CIR. NO.	NO. OF POLES	TRIP	DESCRIPTION	CIR. NO.	NO. OF POLES	TRIP	DESCRIPTION		
1	1	20	OFFICE IG'S	2	1	20	JANITOR GFI		
3	1	20	OFFICE IG'S	4	1	20	LOUNGE/WAITING RM CONVEN. RECP.		
5	1	20	NOT USED	6	1	20	WAITING RECP.		
7	1	20	BATHROOM GFI	8	1	20	RECEPTION/ELEC. RM CONVEN. RECP.		
9	1	20	MICROWAVE DED	10	1	20	IT CLOSET QUAD DED.		
11	1	20	FRIDGE DED	12	1	20	IT CLOSET QUAD DED.		
13	1	20	LOUNGE GFI'S	14	1	20	IT CLOSET QUAD DED.		
15	1	20	EXAM/PROCEDURE RM IG'S	16	1	20	IT CLOSET QUAD DED.		
17	1	20	EXAM RM/PRINTER IG'S	18	1	20	EXAM RM GFI'S		
19	1	20	RECEPTION IG'S	20	1	20	EXAM RM CONVEN. RECP.		
21	1	20	NOT USED	22	1	20	PROCEDURE RM GFI		
23	1	20	OFFICE CONVEN. RECP.	24	1	20	PROCEDURE RM CONVEN. RECP.		
25	1	20	OFFICE CONVEN. RECP.	26	1	20	EXAM RM CONVEN. RECP.		
27	1	20	OFFICE/CORRIDOR CONVEN. RECP.	28	1	20	NOT USED		
29	1	20	OFFICE CONVEN. RECP.	30	1	20	EXISTING USE		
NOTES:									
-ALL BRANCH CIRCUIT WIRING SHALL BE INSTALLED IN METALLIC RACEWAYS, ¾" MINIMUM, SIZED IN ACCORDANCE WITH NEC CONDUIT FILL TABLES.									
-CONTRACTOR SHALL REPLACE ANY EXISTING BRANCH BREAKER THAT IS NOT LISTED FOR USE WITH THE PANEL.									
-ALL BREAKER LABELING TO BE CONFIRMED IN FIELD PRIOR TO COMMENCEMENT OF WORK									
-MARK ALL CIRCUITS AS SPARE IF NO LONGER REQUIRED AFTER DEMOLITION AND INSTALLATION OF NEW WORK									
-PROVIDE UPDATED CIRCUIT BREAKER PANEL LABEL AT COMPLETION OF WORK									

ELECTRICAL, TELEPHONE, & DATA NOTES

200. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
201. CONTRACTOR TO BRING TO ARCHITECT'S ATTENTION ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
202. ALL WALL MOUNTED ELEC, TEL, & DATA RECEPTACLES TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. (SEE TYPICAL MOUNTING HEIGHTS); THIS DUG. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL DETAILS.
203. ALL ELECTRICAL OUTLETS, DATA OUTLETS, SWITCHES & COVER PLATES SHALL BE TYPE: LEVITON DECORA, COLOR: WHITE. ALL EXISTING OUTLETS, SWITCHES, ETC. TO REMAIN SHALL BE CHANGED TO MATCH NEW.
204. ALL OUTLETS ARE TO BE CENTERED ON WALL INDICATED UNLESS OTHERWISE NOTED. LOCATION OF POWER WHIPS, FLOOR OUTLETS AND MULTIPLE OUTLETS TO BE OBTAINED FROM PLAN, AND VERIFIED IN FIELD.
205. ALL POWER, DATA, SWITCHES, ETC SHOWN ARE NEW.
206. ALL ELEC. DEVICES SHOWN ON THIS DUG. SHALL BE CIRCUITED ON NEXT AVAILABLE CIRCUIT.
207. IN ADDITION TO WHAT IS LOCATED ON THE PLAN, G.C. SHALL PROVIDE (1) LOCAL SWITCHES, (2) DUPLEX POWER OUTLETS AND (3) TEL/DATA RECEPTACLES LOCATED THROUGHOUT THE SPACE. LOCATIONS T.B.D. IN FIELD WITH ARCHITECT/OWNER.
208. IF APPLICABLE, ALL WALL MOUNTED EMERGENCY LIGHTS & EXIT LIGHTS & CEILING MOUNTED EXIT LIGHTS NOTED AS EXIST'G TO REMAIN SHALL BE CONFIRMED TO BE IN GOOD WORKING ORDER.
209. ALL DRAG LINES FOR TEL/DATA RECEPTACLES TO BE PULLED BACK TO ELEC. CLOSET
210. G.C. TO PROVIDE ALL DATA/TELEPHONE STUB-UPS INCLUDING BOXES FOR TENANT'S TEL/DATA VENDOR. G.C. SHALL COORDINATE W/ VENDOR'S PLAN.
211. ALL NEW ELECTRICAL WIRING THROUGHOUT SHALL BE MEDICAL GRADE. ANY EXISTING WIRING THAT IS NOT MEDICAL GRADE SHALL BE REMOVED & REPLACED
212. G.C. TO PROVIDE JUNCTION BOX IN CEILING FOR ILLUMINATED SIGNAGE

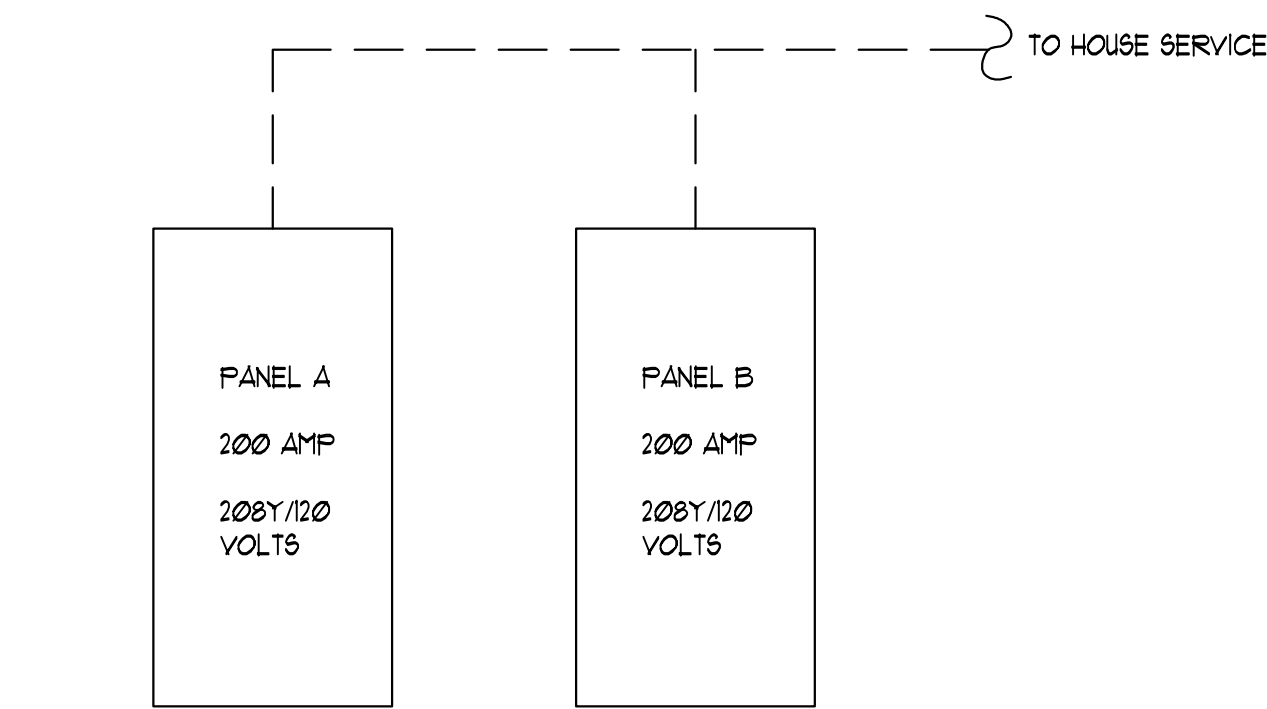
ELECTRICAL, TELEPHONE, & DATA LEGEND

- GFI = GROUND FAULT INTERRUPT
IG = ISOLATED GROUND
- E INDICATES EXISTING TO REMAIN
R INDICATES RELOCATED
- NEW WALL MOUNTED QUAD ELECTRICAL RECEPTACLE
- NEW WALL MOUNTED DUPLEX ELECTRICAL RECEPTACLE
- WALL MOUNTED PHONE
- CIRCUITING
- FIRE ALARM HORN STROBE
- FIRE ALARM VISUAL STROBE
- WALL MOUNTED THERMOSTAT
HONEYWELL FOCUS PRO 8000 SERIES W/ AUTOMATIC CHANGEOVER

TYPICAL MOUNTING HEIGHTS

NOTE: HEIGHTS GIVEN ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE U.O.N.

- GENERAL CONVENIENCE OUTLETS 18" U.O.N.
WALL LOCAL SWITCHES 42" U.O.N.
DEVICES LOCATED AT COUNTERS 6" ABOVE COUNTER OR BACKSPLASH, U.O.N.
- ECL AND TELEPHONE OUTLETS 18" U.O.N.
WALL TELEPHONE OUTLETS 42" U.O.N.
TELEVISION 72" U.O.N.
MICROWAVE 72" U.O.N.



EXISTING PANEL: A

MOUNTING				RECESSED				CAT. #: BUS RATING 200 AMPS MAX. VOLTAGE 208Y/120 VOLTS			
CIR. NO.	NO. OF POLES	TRIP	DESCRIPTION	CIR. NO.	NO. OF POLES	TRIP	DESCRIPTION				
1	3	60	EXISTING USE	2	1	20	EXISTING USE				
3				4	1	20	EXISTING USE				
5				6	1	20	LIGHTS				
7				8	1	20	EMERGENCY LIGHTS/EXIT SIGNS				
9	2	30	ELECTRIC WATER HEATER	10	1	20	NOT USED				
11				12	1	20	NOT USED				
13	1	20	NOT USED	14	1	20	NOT USED				
15	1	20	NOT USED	16	1	20	NOT USED				
17	1	20	NOT USED	18	1	20	NOT USED				
19	1	20	NOT USED	20	1	20	NOT USED				
21	1	20	NOT USED	22	1	20	NOT USED				
23	1	20	NOT USED	24	1	20	NOT USED				
25	1	20	NOT USED	26	1	20	NOT USED				
27	1	20	NOT USED	28	1	20	NOT USED				
29	1	20	NOT USED	30	1	20	NOT USED				
31	1	20	NOT USED	32	1	20	NOT USED				
33	1	20	NOT USED	34	1	20	NOT USED				
35	1	20	NOT USED	36	1	20	NOT USED				
37	1	20	NOT USED	38	1	20	NOT USED				
39	1	20	NOT USED	40	1	20	NOT USED				
41	1	20	NOT USED	42	1	20	NOT USED				

NOTES:

- ALL BRANCH CIRCUIT WIRING SHALL BE INSTALLED IN METALLIC RACEWAYS, 3/4" MINIMUM, SIZED IN ACCORDANCE WITH NEC CONDUIT FILL TABLES.
- CONTRACTOR SHALL REPLACE ANY EXISTING BRANCH BREAKER THAT IS NOT LISTED FOR USE WITH THE PANEL.
- ALL BREAKER LABELING TO BE CONFIRMED IN FIELD PRIOR TO COMMENCEMENT OF WORK
- MARK ALL CIRCUITS AS SPARE IF NO LONGER REQUIRED AFTER DEMOLITION AND INSTALLATION OF NEW WORK
- PROVIDE UPDATED CIRCUIT BREAKER PANEL LABEL AT COMPLETION OF WORK



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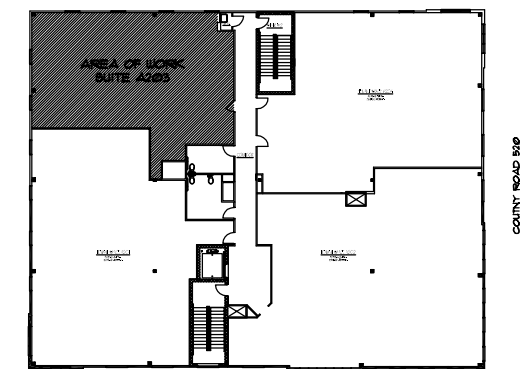
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ELECTRICAL PLAN

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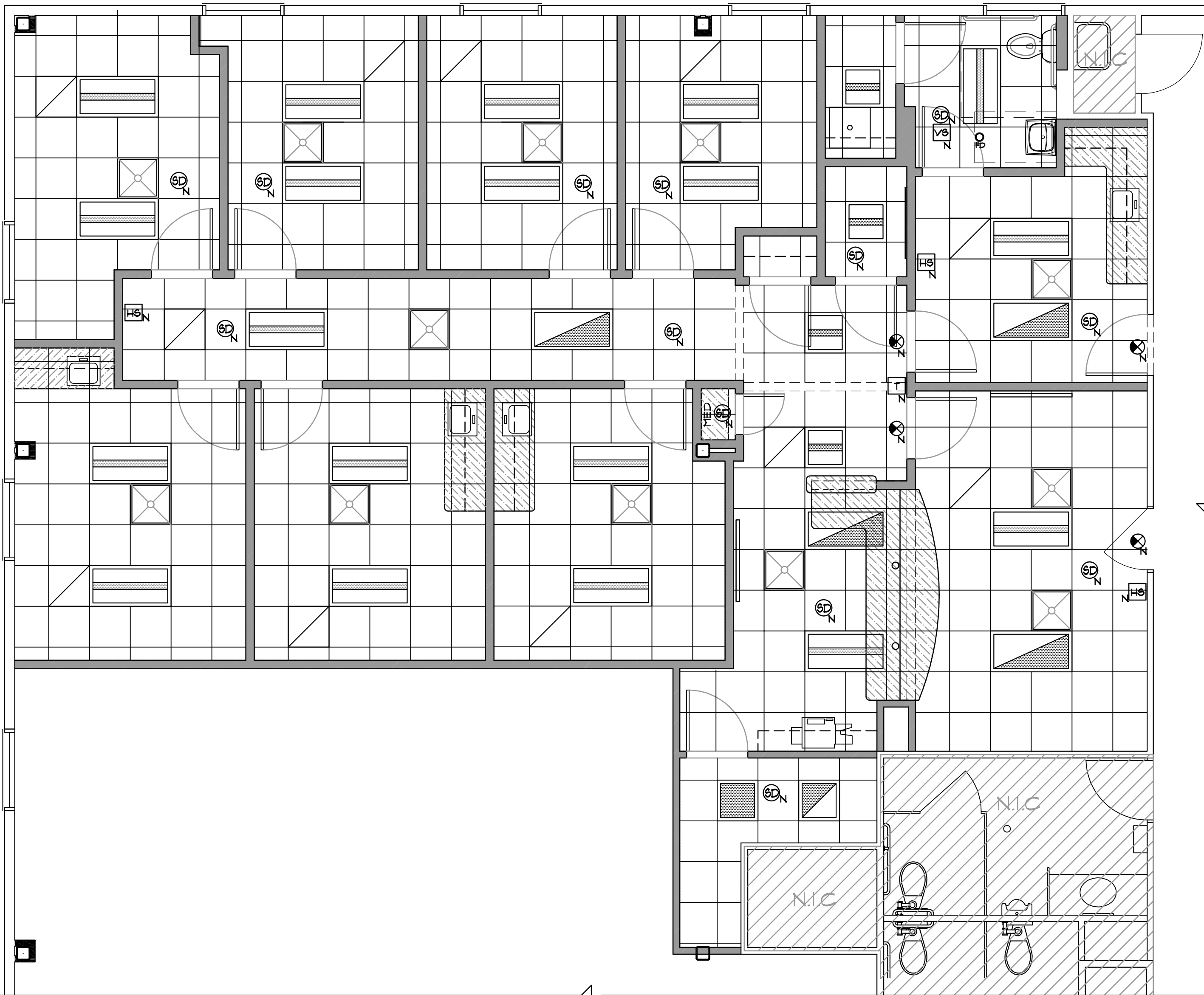
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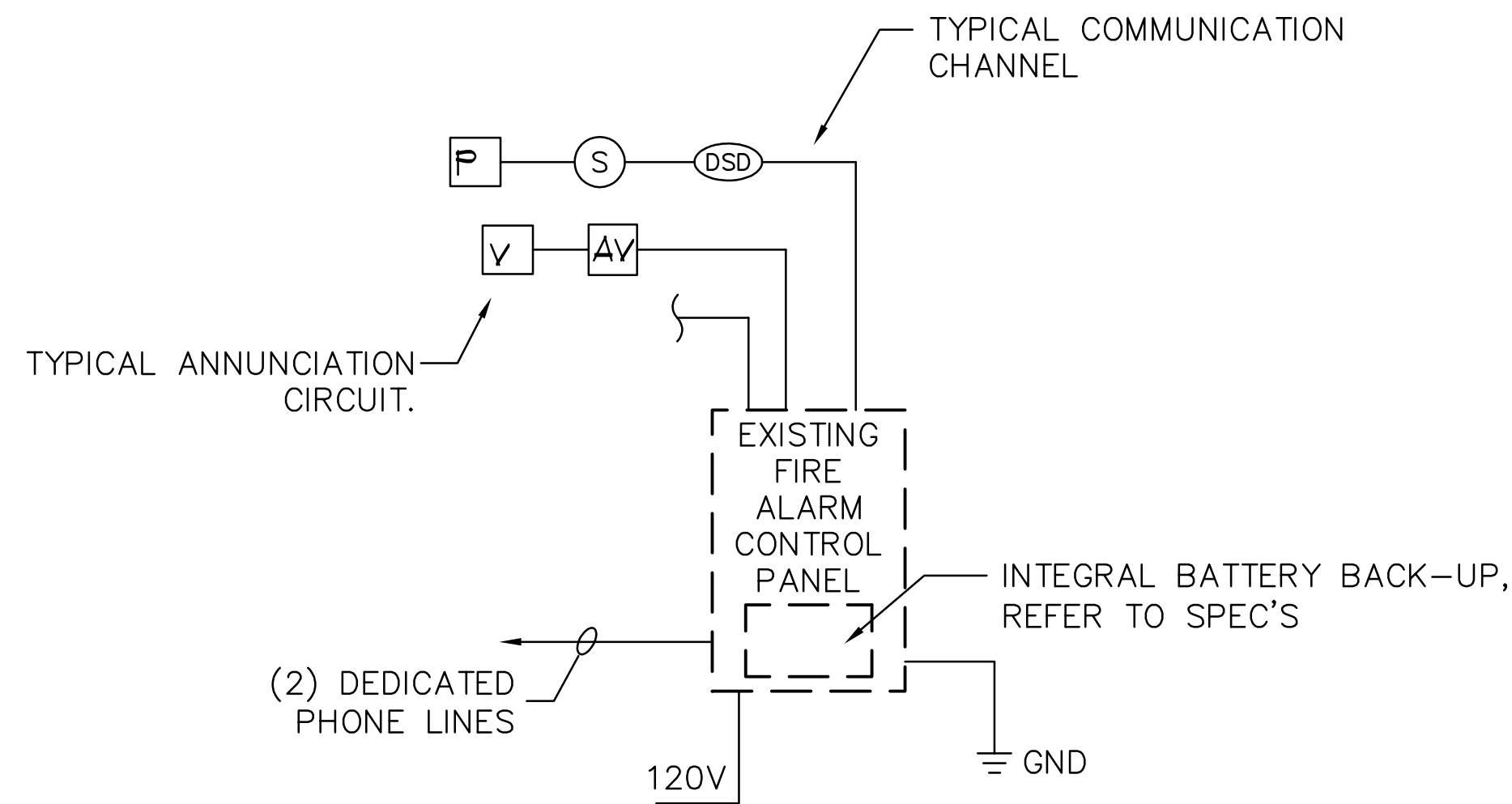
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1 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"



2 FIRE ALARM RISER DIAGRAM
SCALE: NTS

FIRE ALARM LEGEND

R' INDICATES RELOCATED
N' INDICATES NEW
D' INDICATES DEMOLITION OF EXISTING
E' INDICATES EXISTING TO REMAIN

- ⊗ SINGLE FACED WALL MNTD. EXIT LIGHT
MANUFACTURER: PHILLIPS LIGHTING
MODEL #: CA6RCA1C2CKT1
- ⊙ HARDWIRED SMOKE DETECTOR W/ BATTERY BACKUP
HONEYWELL 5149SD/SDT ADDRESSABLE PHOTOELECTRIC
- ⊠ FIRE ALARM HORN STROBE
MANUFACTURER: SPECTRALERT
MODEL #: P2R
- ⊞ FIRE ALARM VISUAL STROBE
MANUFACTURER: SPECTRALERT
MODEL #: SR

FIRE ALARM NOTES CONTINUED

1. CIRCUIT RUNS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS, DIMENSIONS, & ARRANGEMENTS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL IDENTIFY INTERFERENCES BETWEEN WORK IN OTHER AREAS.
2. THE DUST COVERS FURNISHED WITH THE SMOKE DETECTORS MUST BE INSTALLED WITH EACH DEVICE UNTIL FINAL CHECKOUT.
3. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, LOCAL CODE(S), AND/OR AUTHORITY HAVING JURISDICTION.
4. INSTALLATION MATERIAL (I.E. CONDUIT WIRE, FITTINGS, HANGERS & STANDARD ELECTRICAL BOXES) ARE NOT SUPPLIED BY MANUFACTURERS' FIRE SAFETY DIVISION.
5. WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, & QUANTITY. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION. PERMANENT WIRE MARKERS SHALL BE USED TO IDENTIFY THE TERMINATIONS OF ALL CONDUCTORS WITHIN THE FACP, PULL BOXES AND OTHER PANELS.
6. ALL CABLE AND WIRING SHALL BE COLOR CODED. DIFFERENT COLOR CODES SHALL BE USED FOR INITIATING, NOTIFICATION, CONTROL, AND COMMUNICATION CIRCUITS. CIRCUITS WHERE POLARITY MUST BE OBSERVED, TWO DIFFERENT COLORS SHALL BE USED. THE NUMBER OF SPLICES SHALL BE HELD TO AN ABSOLUTE MINIMUM. WHERE SPLICES CANNOT BE AVOIDED AND AT THE TERMINATION OF ALL EQUIPMENT WHICH INCORPORATE PIGTAIL CONNECTING WIRES, EITHER PHENOLIC TERMINAL BLOCKS OR PRESSURE TYPE CONNECTORS SHALL BE UTILIZED. WIRE NUTS SHALL NOT BE USED. ALL SUCH SPLICES SHALL TAKE PLACE WITH JUNCTION BOXES. WHERE PRESSURE TYPE CONNECTORS ARE UTILIZED, BREAK THE WIRE RUN FOR PROPER SUPERVISION. DO NOT LOOP THE WIRE. ALL FIRE ALARM SYSTEM JUNCTION BOXES, AND PULL BOXES SHALL BE PAINTED RED.
7. COVER PLATES SHALL BE PAINTED RED & MARKED 'FA'. IF CONDUIT IS UTILIZED, THE MINIMUM SIZE SHALL BE PROVIDED AS REQUIRED BY TABLE 4
8. CHAPTER 7, OF THE NATIONAL ELECTRIC CODE, USING ACTUAL CROSS SECTION AREA OF THE WIRING TO BE INSTALLED.
9. ALL FIRE WALL AND/ OR MASONRY WALL PENETRATIONS SHALL BE DRILLED, SLEEVED, BUSHED AT BOTH ENDS, AND SEALED WITH THE REQUIRED FIRE RATED CAULK OR FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING.
10. THE INSTALLER IS RESPONSIBLE FOR METERING ALL WIRES TO ENSURE THAT THEY ARE FREE AND CLEAR OF GROUNDS, OPENS, SHORTS, CORRECT RESISTANCE, CAPACITANCE, AND PROPER SUPPORT PRIOR TO TERMINATION ON ANY FIRE ALARM EQUIPMENT. MANUFACTURER WILL NOT BEGIN CHECKOUT WITHOUT WRITTEN DOCUMENTATION CONFIRMING THIS WORK BEING PERFORMED. IF GROUNDS AND/OR SHORT ARE FOUND ON THE SYSTEM WIRING UPON INITIAL CHECKOUT, THAT INITIAL CHECKOUT WILL BE DISCONNECTED UNTIL ALL WIRING IS CORRECTED. TEE BARS SHALL BE USED TO SUPPORT JUNCTION BOXES OF ALL SUSPENDED CEILING MOUNTED DEVICES.
11. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR AS BUILT PURPOSES, WITH ACTUAL WIRE RUNS AND EQUIPMENT LOCATIONS. 14. FOR ADDITIONAL INSTALLATION INSTRUCTIONS, REFER TO CATALOG CUT SHEETS AND/OR INSTALLATION INSTRUCTIONS.

NOTES:

1. FOR EXACT QUANTITY AND LOCATION OF ALL DEVICES REFER TO FLOOR PLANS.
2. EXACT WIRE SIZE & QUANTITY SHALL BE PER SYSTEM MANUFACTURERS RECOMMENDATIONS. ALL WIRING SHALL BE RUN CONCEALED ABOVE THE CEILING AND/OR IN WALLS. SHALL HAVE INSULATION TYPE FPLP AS A MINIMUM.
3. WHERE RUN IN EXPOSED AREAS I.E.. MECHANICAL ROOMS, WIRING SHALL BE RUN IN EMT CONDUIT.
4. ENTIRE INSTALLATION SHALL BE IN CONFORMANCE WITH NJ UCC, NFPA, NEC, IBC-NJ
5. PROVIDE MINIMUM 2 VISUAL STROBE CIRCUITS PER FLOOR, MORE IF REQUIRED NO MORE THAN (10) STROBES PER CIRCUIT.



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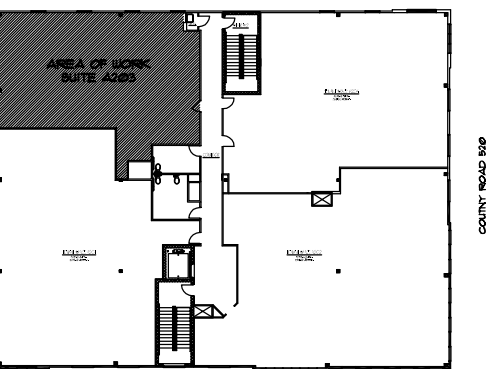
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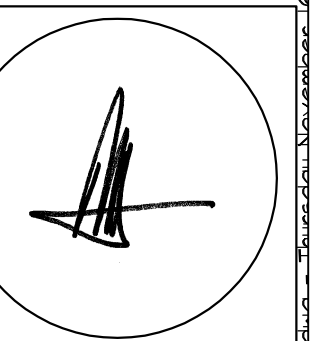
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DATE

11/1/2017

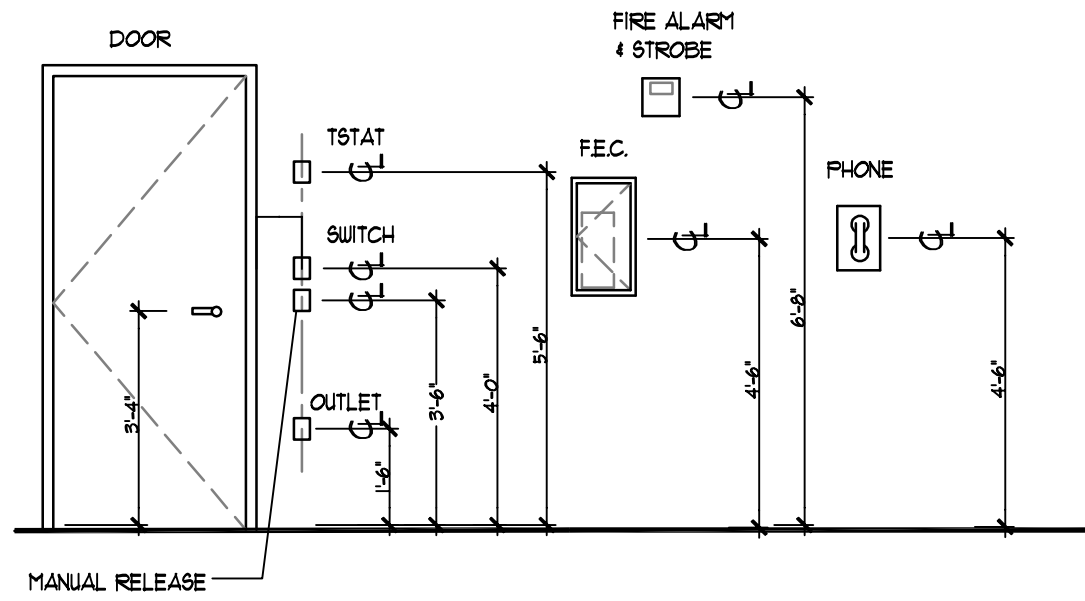
BSCAN/ APPLICATION NO.:

SHEET NO.

FA-100.00

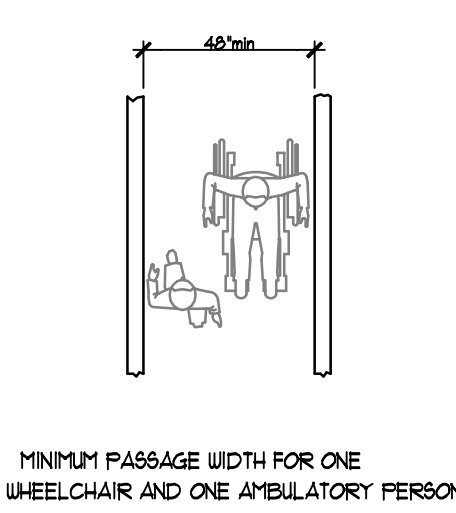
PAGE

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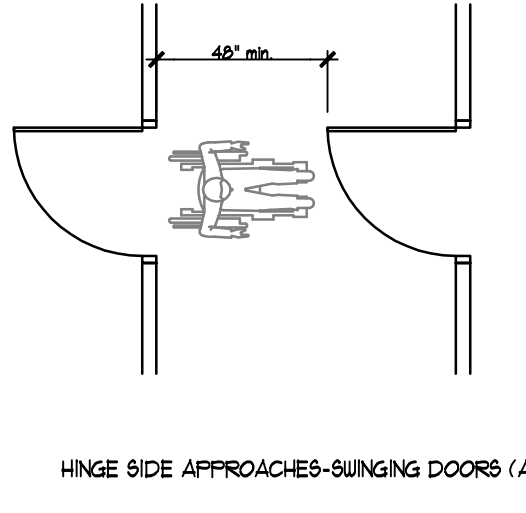


1 TYP. ITEM MOUNTING HEIGHTS

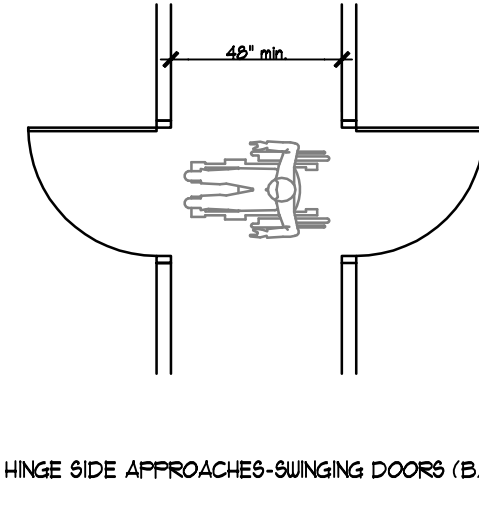
SCALE: 1/4" = 1'-0"



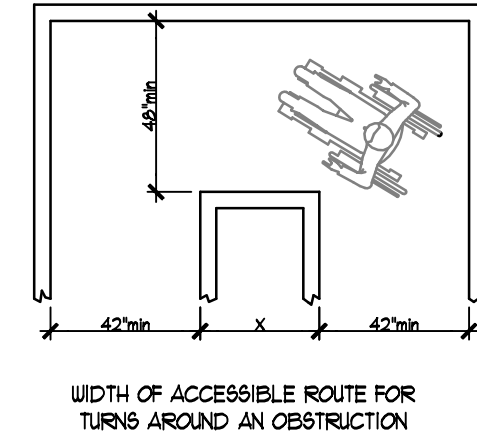
MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON



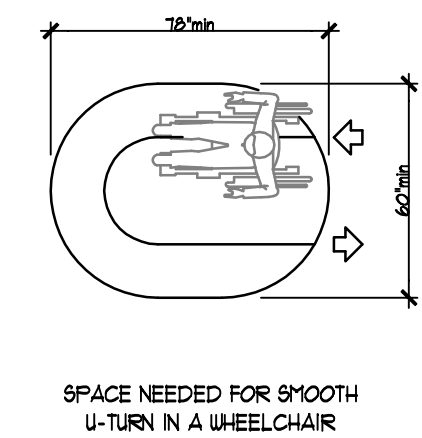
HINGE SIDE APPROACHES-SWINGING DOORS (A)



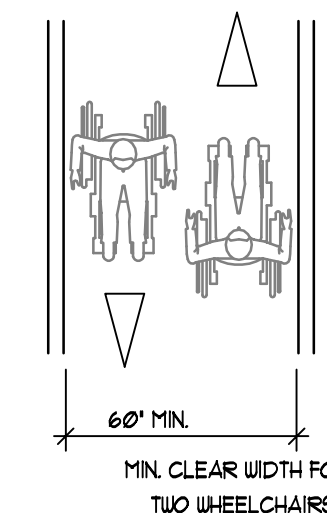
HINGE SIDE APPROACHES-SWINGING DOORS (B)



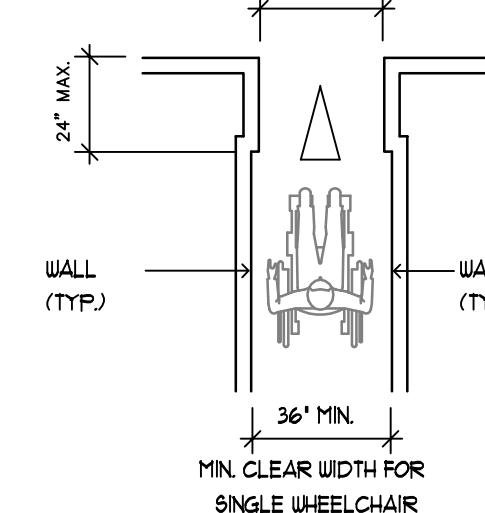
WIDTH OF ACCESSIBLE ROUTE FOR TURNS AROUND AN OBSTRUCTION



SPACE NEEDED FOR SMOOTH U-TURN IN A WHEELCHAIR



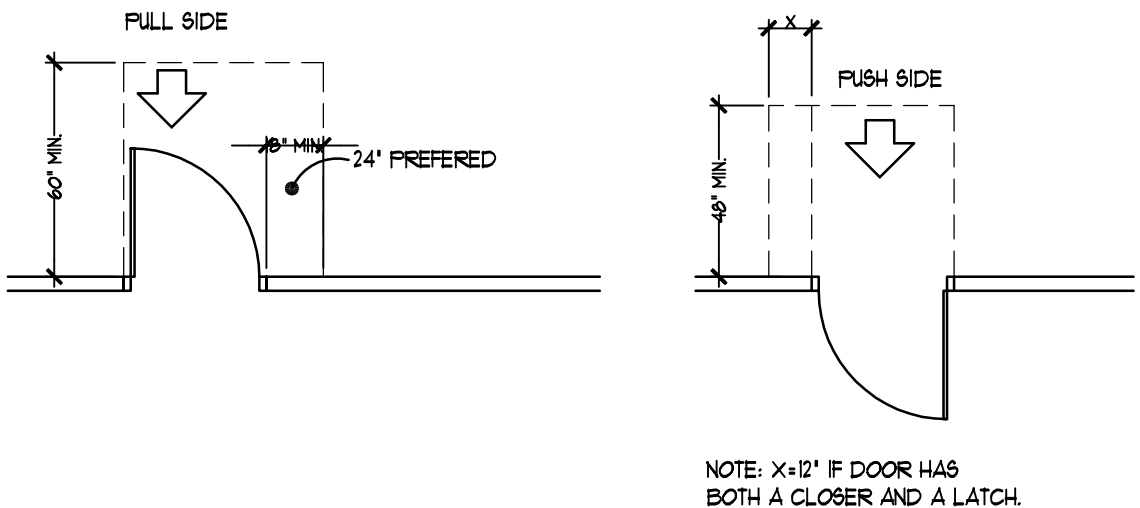
MIN. CLEAR WIDTH FOR TWO WHEELCHAIRS



MIN. CLEAR WIDTH FOR SINGLE WHEELCHAIR

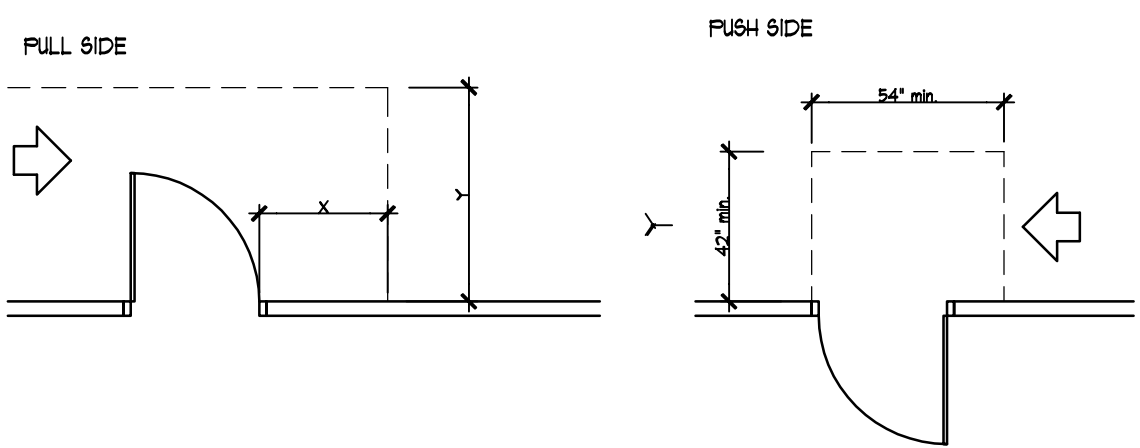
2 ACCESSIBLE ROUTES

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



FRONT APPROACHES-SWINGING DOORS

NOTE: ALL DOORS IN SLOTTES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



HINGE SIDE APPROACHES-SWINGING DOORS

NOTE: X=36" min. if Y=60" X=42" min. if Y=54"

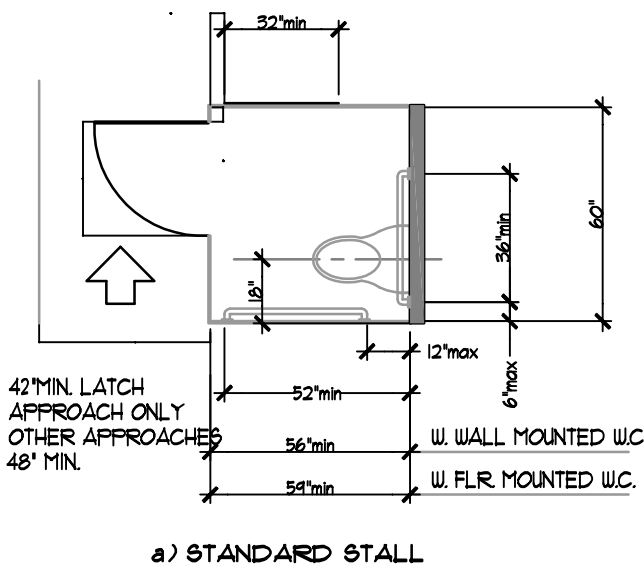
NOTE: Y=48" min. if door has both a closer and a latch.



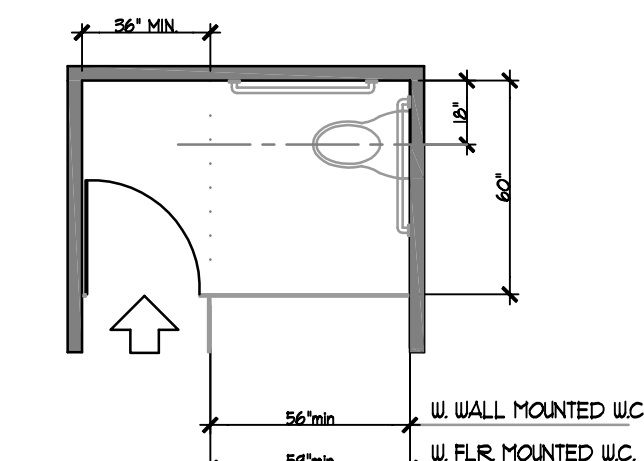
LATCH SIDE APPROACHES-SWINGING DOORS

NOTE: Y=54" min. if door has closer

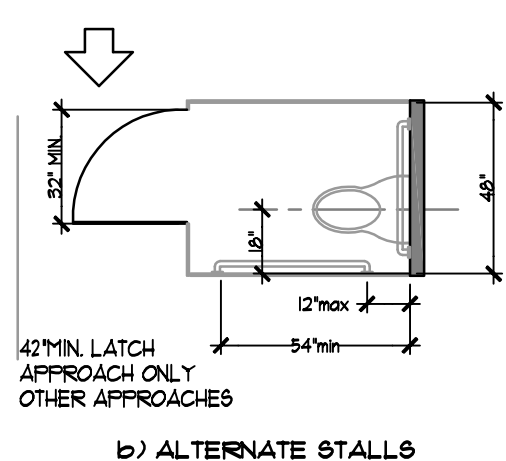
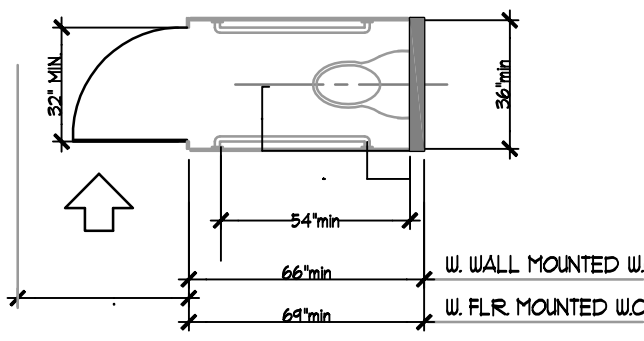
NOTE: Y=48" min. in door has closer



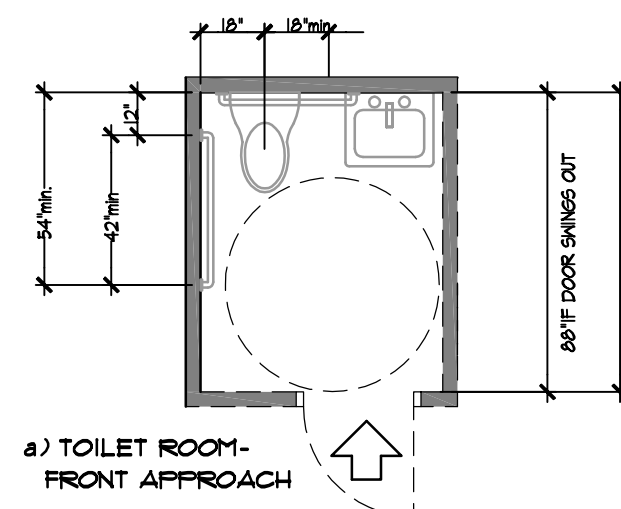
a) STANDARD STALL



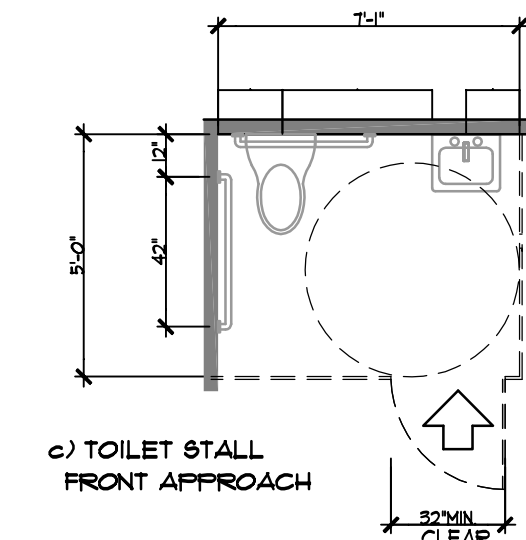
a-1) STANDARD STALL - END OF ROW



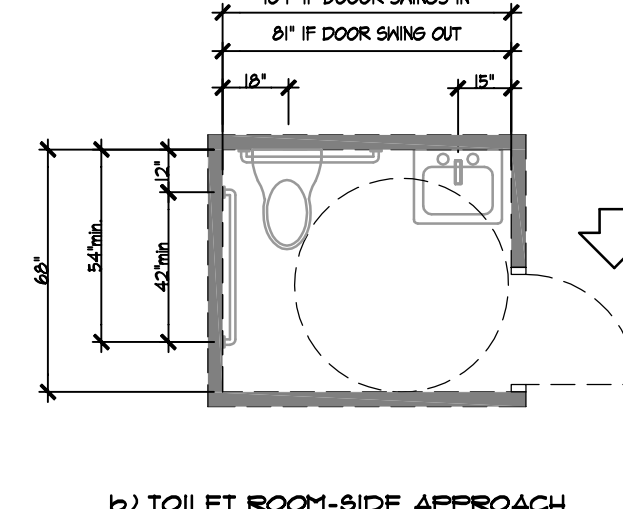
b) ALTERNATE STALLS



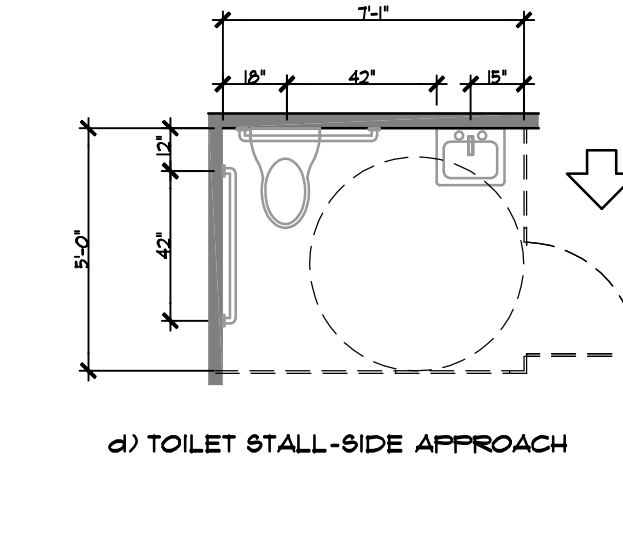
a) TOILET ROOM-FRONT APPROACH



c) TOILET STALL-FRONT APPROACH



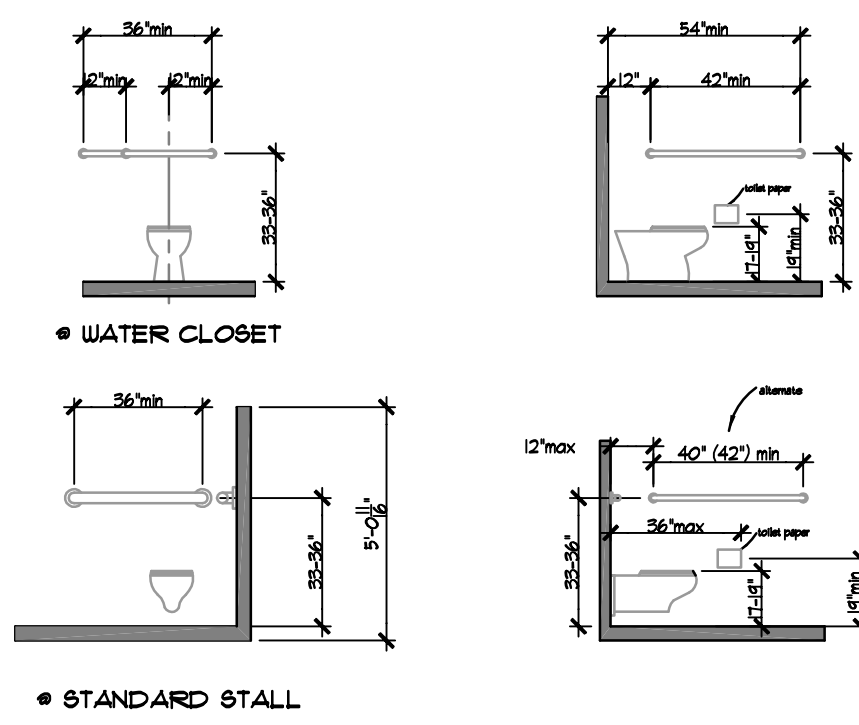
b) TOILET ROOM-SIDE APPROACH



d) TOILET STALL-SIDE APPROACH

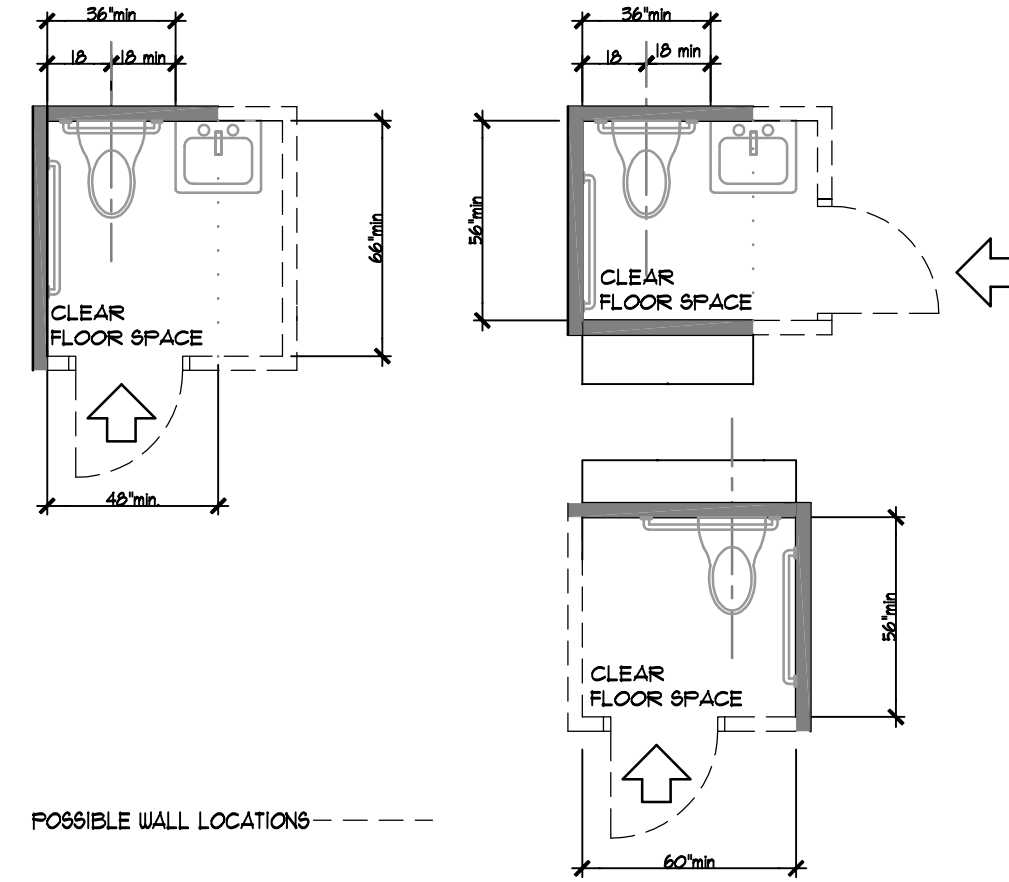
5 ACCESSIBLE CLEARANCES

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



• WATER CLOSET

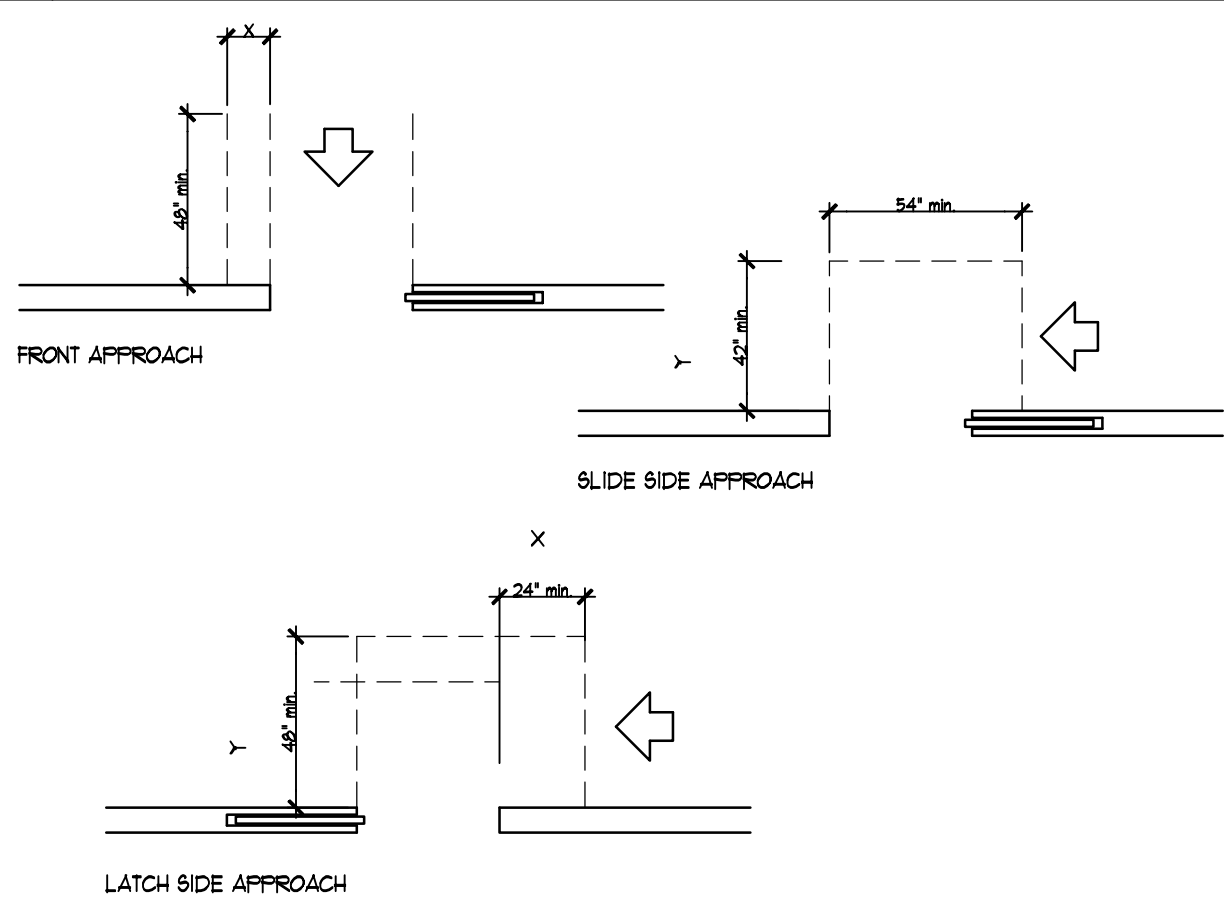
• STANDARD STALL



POSSIBLE WALL LOCATIONS - - - -

3 MANEUVERING CLEARANCES AT DOORS

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

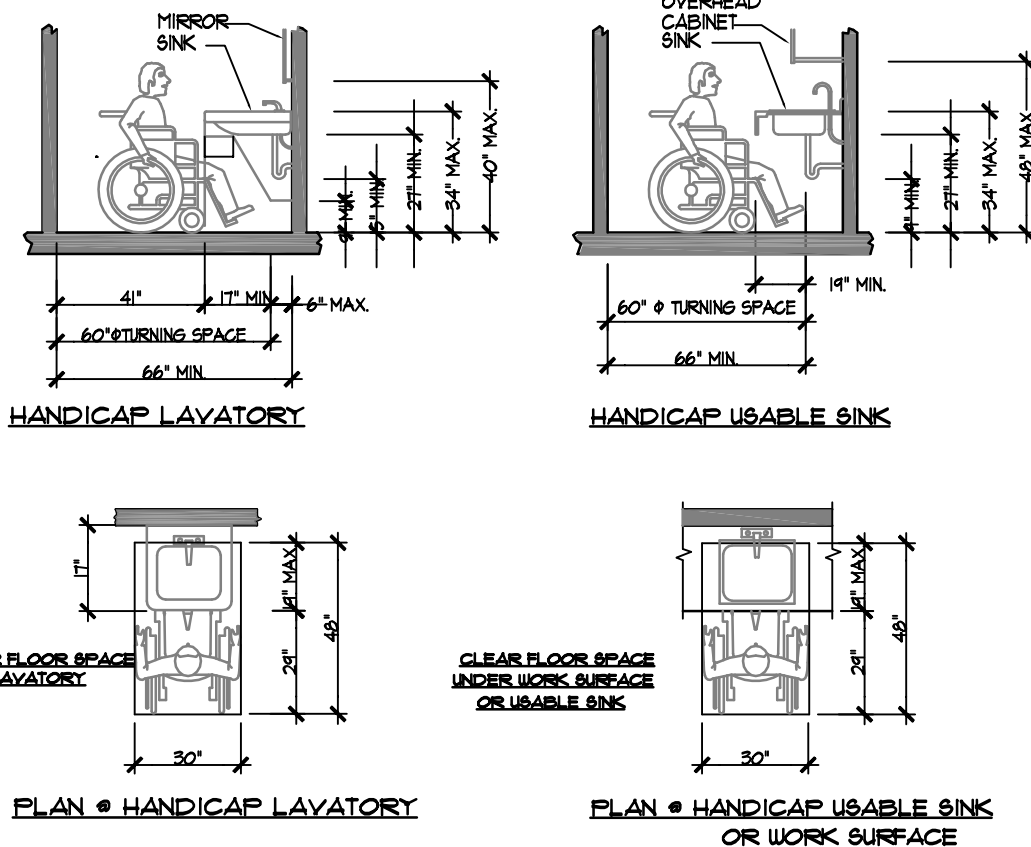


SLIDE SIDE APPROACH

LATCH SIDE APPROACH

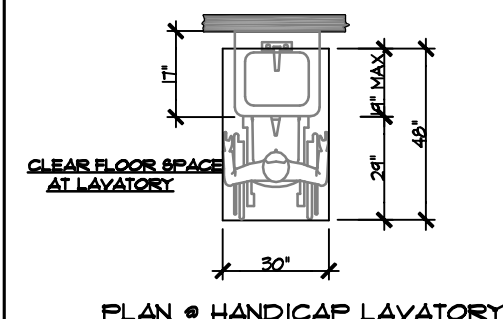
4 TOILET STALLS

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

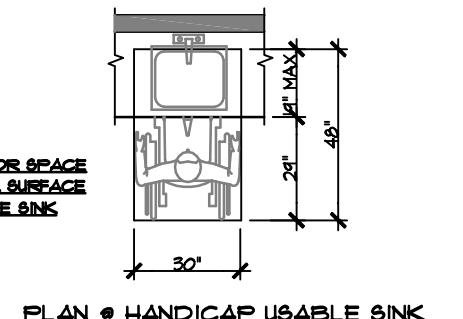


HANDICAP LAVATORY

HANDICAP USABLE SINK



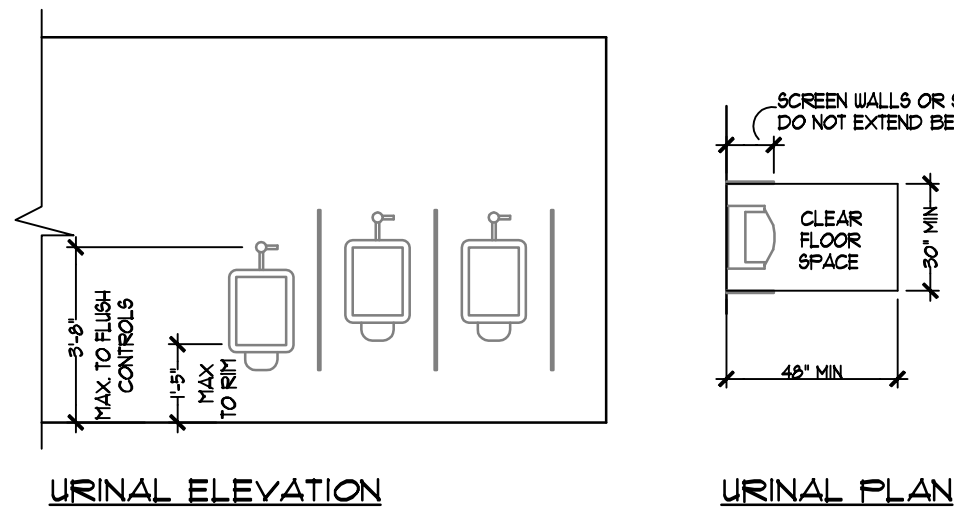
PLAN • HANDICAP LAVATORY



PLAN • HANDICAP USABLE SINK OR WORK SURFACE

6 GRAB BARS

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



URINAL ELEVATION

URINAL PLAN

9 MANEUVERING CLEARANCES AT SLIDING/FOLDING DOORS

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

10 HANDICAP LAVATORY & USABLE SINK

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

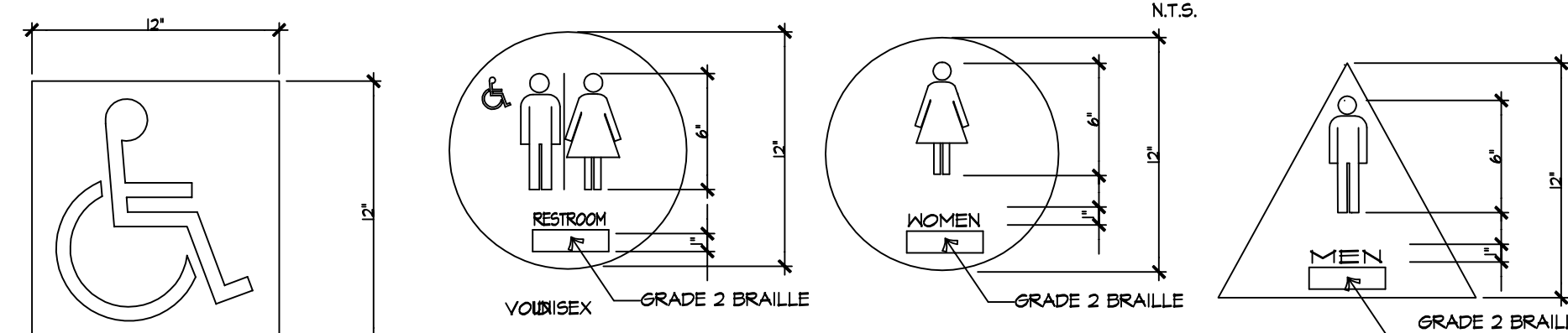
11 URINAL

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

NOTE:
THE CONDITIONS ILLUSTRATED ON THIS SHEET CONSTITUTE LEGAL STANDARDS FOR HANDICAPPED ACCESSIBILITY. THEY DO NOT CONSTITUTE ACTUAL ARCHITECTURAL CONDITIONS FOR CONSTRUCTION IN THE COURSE OF THIS WORK. SEE ENCLOSED ARCHITECTURAL DRAWINGS FOR ACTUAL EXTENT OF WORK. NOT ALL CONDITIONS SHOWN HERE NECESSARILY OCCUR IN THIS PROJECT.

CONTRACTOR TO INFORM ARCHITECT WHEN DUE TO FIELD CONDITIONS, ETC., ACTUAL CONSTRUCTION WILL NOT CONFORM TO THESE STANDARDS.

AS PER D.O.B. COMMENTS JAN 5, 2007
ACCESSIBLE SIGN SHALL COMPLY WITH THE 2003 ICC/ANSI A 117.1 ACCESSIBLE BUILDINGS & FACILITIES SECTION 103.103.2 CHARACTERS THAT ARE BOTH TACTILE AND VISUAL. CHARACTERS REQUIRED TO BE TACTILE SHALL COMPLY WITH SECTIONS 103.2.1 THROUGH 103.2.8 EXCEPTION: TACTILE CHARACTERS COMPLYING WITH SECTION 103.3 WHERE SEPARATE VISUAL CHARACTERS COMPLYING WITH SECTION 103.4 PROVIDE THE SAME INFORMATION. 103.2.1 BRAILLE. TACTILE CHARACTERS SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 103.3.

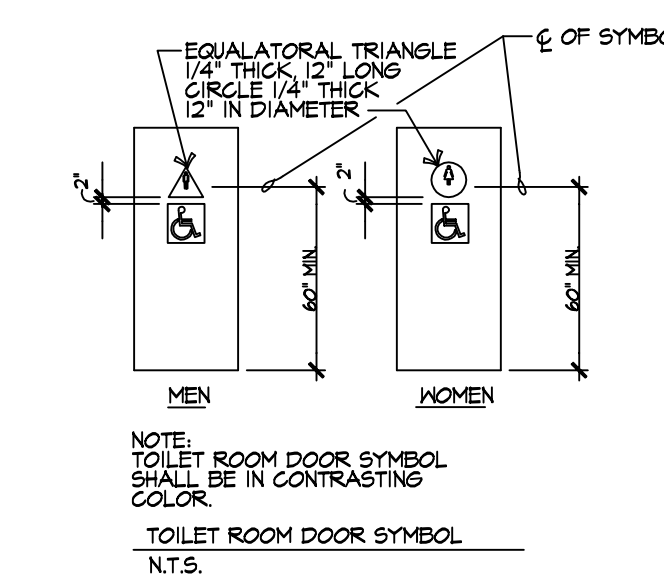


ACCESSIBILITY SYMBOL TO BE MOUNTED AT LAVATORY ENTRANCE

VOIRISEX - GRADE 2 BRAILLE

WOMEN - GRADE 2 BRAILLE

MEN - GRADE 2 BRAILLE



NOT TO EXCEED FIXTURE DEPTH

BUILT-IN DRINKING FOUNTAIN OR COOLER

FREE-STANDING DRINKING FOUNTAIN OR COOLER

CLEAR FLOOR SPACE AT DRINKING FOUNTAIN

CLEAR FLOOR SPACE

CLEAR FLOOR SPACE

CLEAR FLOOR SPACE

CLEAR FLOOR SPACE

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CLEAR FLOOR SPACE



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ISSUES

DATE:	DESCRIPTION
11/16/2017	FOR BID

REVISIONS

DATE:	DESCRIPTION

PROJECT

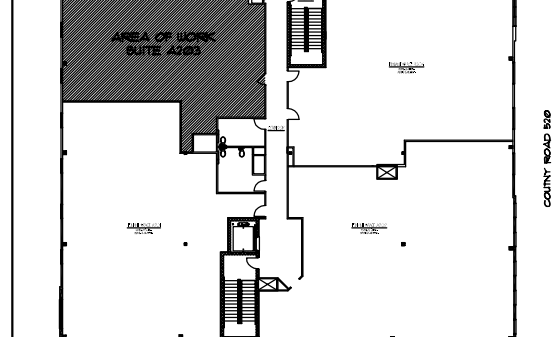
DR. SADEK

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MARLBORO TOWNSHIP, NJ 07746

BLOCK: 213

LOT: 8.01

ZONE: OPT 2



SEAL

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MICHELLE DEL VECCHIO
N.J. LIC. #18469

SHEET TITLE:

ADA
PLANS & DETAILS

JOB NO: 890-1701	DRAWN BY SPK
SCALE AS NOTED	DATE 11/1/2017

BSCAN/ APPLICATION NO.:

SHEET NO.
A-400.00

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