

# FORT HARRISON STATE PARK BUILDING 803 CONVERSION TO APM RESIDENCE MARION COUNTY



Certified by:

## VICINITY MAP



FORT HARRISON  
CAMP GLENN

PROJECT LOCATION  
INDIANAPOLIS  
MARION COUNTY, IN



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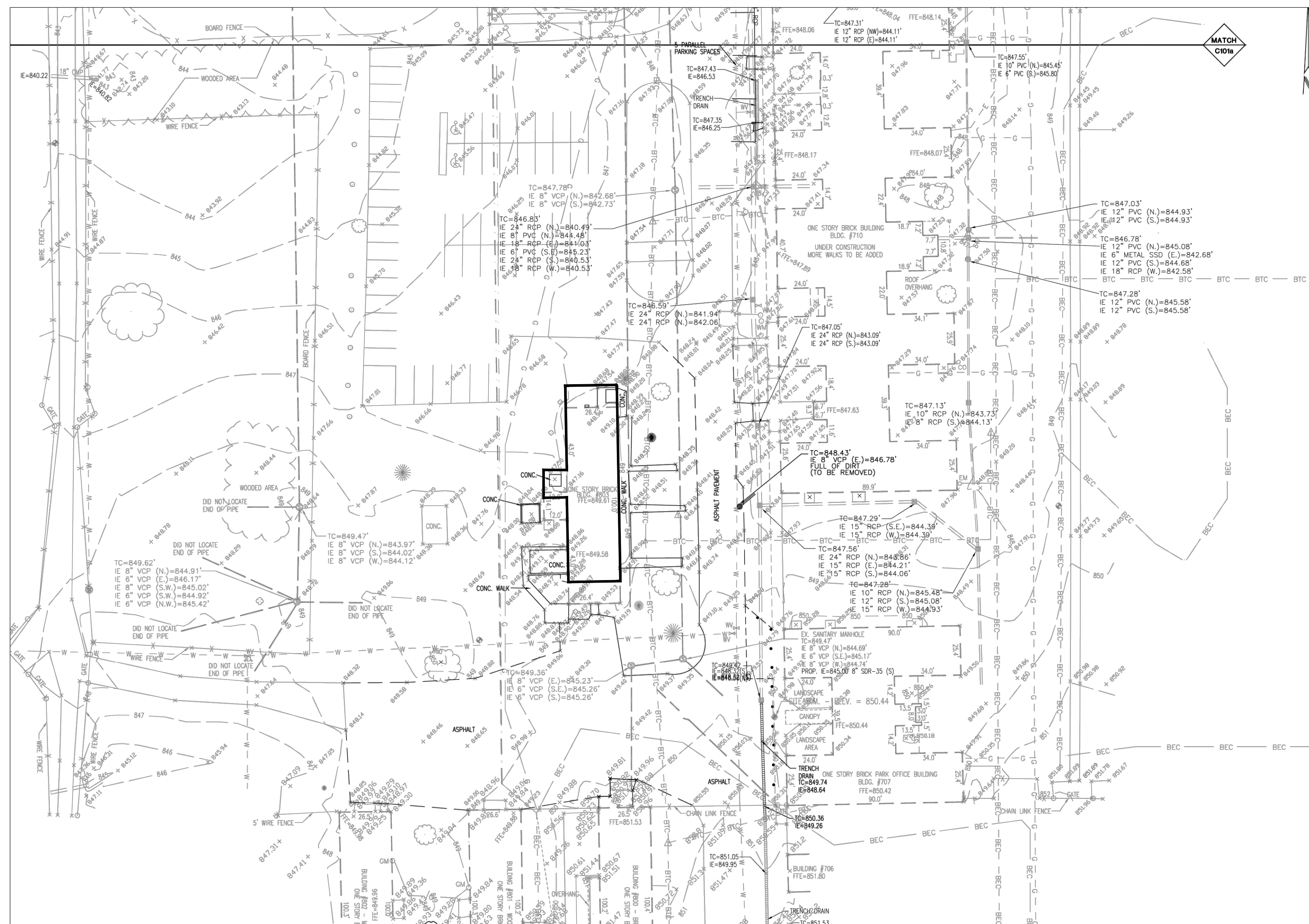
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## PROJECT INFORMATION

- BUILDING ADDRESS:** FORT HARRISON STATE PARK  
Indianapolis, IN 46216  
(317) 591-0904
- COUNTY:** Marion
- OCCUPANCY TYPE:** RESIDENCE
- CONSTRUCTION TYPE:** TYPE VB  
INDIANA RESIDENTIAL CODE 2005 EDITION
- ZONING AUTHORITIES:** N/A
- DHPA Approval:** July 2, 2019 (DHPA #23961)

FORT HARRISON STATE PARK  
BUILDING 803 CONVERSION TO APM RESIDENCE  
INDIANA DEPT. OF NATURAL RESOURCES  
5753 Glenn Rd.  
Indianapolis, IN 46216



## SITE PLAN NTS

EXISTING FEATURES LEGEND	
	SANITARY SEWER & MANHOLE
	STORM SEWER, END SECTION, INLET & M.H.
	GAS LINE
	WATER LINE
	ABANDONED/INACTIVE LINE (VERIFY)
	BURIED TELE. CABLE
	BURIED ELEC. CABLE
	FENCE LINE (FNC)
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	SEWER CLEANOUT
	WATER METER
	GAS METER
	ELECTRIC METER
	ROOF DRAIN
	METAL LID @ GROUND LEVEL
	SPOT GRADE
	TOP OF CASTING ELEVATION
	INVERT ELEVATION
	POWER POLE
	GUY WIRE
	TELEPHONE RISER
	UTILITY RISER, ELEC. & CTV
	ELECTRIC TRANSFORMER
	TELEPHONE BOX
	STREET LIGHT
	LIGHT POLE
	FENCE GATE
	FIRE HYDRANT
	VALVE, GAS & WATER
	STREET SIGN
	BOLLARD

NOTE:  
UTILITY LOCATIONS SHOWN ARE BASED ON FIELD LOCATES BY A PRIVATE UTILITY LOCATOR SERVICE AND SURVEY EVIDENCE ON SITE. DUE TO THE NATURE OF THE PROPERTY, THERE MAY BE EXISTING UTILITIES THAT WERE: NOT LOCATED, ABANDONED IN PLACE, OR COMPLETELY REMOVED. ALL LOCATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO ANY CONSTRUCTION ACTIVITIES.

## GENERAL NOTES:

- THESE GENERAL NOTES APPLY TO ALL DRAWINGS.
- DISCONNECT EXISTING UTILITIES. SECURE UTILITIES FOR CONSTRUCTION PHASE.
- CONNECT AS REQUIRED FOR OPERATION OF THE BUILDING TO EXISTING WATER, SEWER AND GAS LINES.
- CONTRACTOR SHALL PROTECT EXISTING FURNACE, DUCTS, AND COMMUNICATIONS (PHONE AND FIBER OPTICS) DURING CONSTRUCTION.
- COORDINATE PENETRATIONS THRU EXTERIOR WALLS AND ROOF FOR ALL UTILITIES WITH ARCHITECT REPRESENTATIVE.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- ALL EXISTING MASONRY WALLS ON THIS PROJECT ARE SOLID BRICK WALLS, 2-WYTHE.
- DIMENSIONS OF NEW CONSTRUCTION ARE SHOWN FROM BRICK TO WOOD STUD SURFACE (WITHOUT GYPSUM BOARD) UNLESS NOTED OTHERWISE.
- DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- ALL NEW INTERIOR WALLS SHALL BE 2x4 WOOD STUDS SPACED 16" ON CENTER UNLESS NOTED OTHERWISE. SEE FLOOR PLAN FOR LOCATION.
- INSTALL InSoFast UX 2.0 EPS INSULATION PANELS ON THE BRICK WALL USING MECHANICAL FASTENERS. SEE DRAWINGS FOR BRICK WALL REMOVAL AND INFILL INCLUDED IN SCOPE OF THIS CONTRACT.
- GYPSUM BOARD INSTALLED ON THE CEILING SHALL BE 5/8" TYPE 'X', INSTALLED ONLY IN THE PART OF THE BUILDING WHICH IS REMODELED.
- GYPSUM BOARD INSTALLED ON THE WALLS SHALL BE 1/2", EXCEPT:
  - WALL SEPARATING 'DINING/LIVING' FROM 'EXISTING TO REMAIN' 5/8" TYPE 'X' GYPSUM BOARD SHALL BE INSTALLED (ONE SIDE OF THE WALL ONLY)
  - WET WALLS SHALL BE 1/2" MOISTURE-RESISTANT OR 1/2" CEMENT BOARD.
 SEE SHEET A-1 FOR WALL TYPES.
- ALL GYPSUM BOARD INTERSECTIONS, CORNERS, ENDS, ETC., SHALL HAVE 'L', 'U', 'J' PLASTIC TRIM ACCESSORIES AS REQUIRED.
- INSTALL BAFFLES AND MINIMUM R-38 BATT INSULATION AT THE CEILING ONLY IN AREA THAT IS REMODELED.
- VERIFY MOUNTING HEIGHT OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID WOOD BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. PROVIDE WOOD BLOCKING OR METAL STRAPS BETWEEN FRAMING MEMBERS AS REQUIRED TO SUPPORT WEIGHT AND USE OF ITEMS TO BE SUPPORTED. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT ITEMS AT RECOGNIZED INDUSTRY STANDARD MOUNTING HEIGHTS. COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER ANY MOUNTING QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- ELECTRICAL INTERIOR OUTLETS SHALL BE INSTALLED 2 FT ABOVE FINISH FLOOR, U.N.O.



STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF ENGINEERING  
ROOM W209, INDIANA GOVERNMENT CENTER SOUTH  
402 WEST WASHINGTON STREET  
INDIANAPOLIS, INDIANA 46204  
TEL: 317-232-4150, FAX: 317-231-1205

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File Number:	37 - 46
Drawing Number:	G-1
Sheet:	1 of 9

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**GENERAL NOTES AND SPECIFICATIONS FOR MATERIALS AND PRODUCTS**

The drawings and specifications do not indicate every item required for completion of the work. Furnish and install specified items and all additional items and accessories as required for a fully functional system. Complete work in accordance with applicable Building Codes, Ordinances, Federal Regulations, Laws, and recognized industry standards to achieve the highest quality work and craftsmanship, following the manufacturer's printed specifications, details, and installation instructions, and modified as recommended by the product manufacturer only if required to suit project specific conditions. Where discrepancies exist within the drawings and between the drawings and specifications, the most stringent requirement shall apply. Provide Progress Schedules (Bar Charts or CPM/PERT Charts) as requested by Owner's Code Administrator, and upon completion of the work complete final clean to satisfaction of Owner and submit detailed "As-built" redlines to Owner documenting final conditions.

**Selective Demolition:**

- Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent portions of building and facilities to remain. Ensure safe passage of people around selective demolition area and to and from the building.
- Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
- Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
- Cover and protect existing phone lines, fiber optics and related information technology.
- Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished. Strengthen or add new supports when required during progress of selective demolition.
- Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
- Do not allow demolished materials to accumulate on-site.
- Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- Burning: Do not burn demolished materials.
- Clean adjacent areas of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

**General Notes:**

- Drawings and Specifications indicate the Basis-of-Design Products. Subject to compliance with requirements, provide specified product or Equal as approved by Architect ten (10) business days prior to the bid due date. Reference drawings and specifications for Model #'s, SKU #'s, where listed, may be used to search for additional product information at www.menards.com.
- Submit product data, shop drawings, color charts, paint draw downs, and samples for selection and approval by Architect for all products prior to installation.
- Prepare existing surfaces to remain as recommended by product manufacturer.
- Verify and provide solutions to address moisture vapor transmission rates as recommended by product manufacturer.
- Reference Finish Schedule (sheet A-1) for additional information.
- Provide wood blocking behind all surface mounted items.

**DIVISION 3 - CONCRETE**

**Cast-in-Place Concrete – Interior Floor Slab Infill / Patching:**

- Normal-Weight Concrete made from Portland Cement (ASTM C 150, Type I) with synthetic micro-fiber
- Minimum Compressive Strength: 4,000 psi at 28 days
- Slump Limit: 4 inches
- Air Content: 0-3 percent
- Vapor Barrier: Stego Wrap Vapor Barrier (15-mils) or equal perm rating

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**Sealed Concrete:**

- Surface preparation: Follow Product Manufacturer's Instructions
- Manufacturer and Products: The Euclid Chemical Company, Euco Clean & Strip and Euco Diamond Hard liquid densifier and sealer, or Equal.
- Provide ADA compliant walking surface. Coefficient of Friction: 0.42 minimum

**DIVISION 4 – MASONRY**

**Brick Masonry:**

- Carefully remove any remaining nails shot into the interior side of the brick
- Tuck point interior brick masonry units around existing door 08-B where mortar is lose and missing

**Brick Masonry Mortar:**

- Mix mortar materials in the following proportions: 1 part portland cement, 6 parts lime, and 12 parts sand.
- Portland Cement: ASTM C 150, Type I or Type II, white where required for color matching of exposed mortar. Provide cement containing not more than 0.60 percent total alkali when tested according to ASTM C 114.
- Hydrated Lime: ASTM C 207, Type S.
- Mortar Sand: ASTM C 144 unless otherwise indicated. For pointing mortar, provide sand with rounded edges. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.
- Water: Potable.

**Brick Masonry – Alternate #2:**

- Saw cut existing brick masonry to required masonry opening size for new windows.
- Tooth-in and tuck point brick masonry units knocked loose during saw cutting operations.

**DIVISION 5 – METALS**

**Miscellaneous Metals:**

- Steel: A36, Manufactured in USA
- Minimum Yield Stress: 36 ksi
- Fasteners: As specified and noted on drawings. Where not noted, provide ASTM A 307 with ASTM A 563 hex nuts and flat washers, hot-dip zinc coated, size and type as recommended by manufacturer to suit loads and substrate conditions

**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

**Carpentry:**

- Interior Framing and Blocking: No. 2 or better, 19% maximum moisture content, Pressure-treated
- Exterior Plywood Sheathing: Grade B-C, pressure treated (AWPA Use Category UC3b)
- Nails: Stainless steel. ASTM F 1667.
- Power-Driven Fasteners: ICC-ES AC70.
- Wood Screws and Lag Screws: ASME B18.2.1, ASME B18.6.1, or ICC-ES AC233.
- Carbon-Steel Bolts: ASTM A 307 with ASTM A 563 hex nuts and flat washers, hot-dip zinc coated, size and type as recommended by manufacturer to suit loads and substrate conditions

**Architectural Woodwork:**

- Provide custom plywood panel (Grade BB-CP, Baltic Birch Veneer, painted) along rear side of island cabinets. Reference 6/A-3.
- Closet Shelving: By Owner

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**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

**Roofing Accessories:**

- Pipe Penetration Flashing: Provide flashing at new and existing roof vent penetrations. As manufactured by Oatey, or Equal, with noncracking thermoplastic base and rubber collar. Size to accommodate pipe sizes indicated or required. Provide related roofing accessories and specialties as required.

**Flashing:**

- Stainless Steel
  - Type 304, Mill Finish
  - Shape and thickness as indicated on drawings

**Liquid Membrane**

- Product: ZIP System Liquid Flash, or Equal
- Surface Preparation: As recommended by manufacturer.
- Material: Liquid-applied flashing membrane made of STPE (silyl-terminated-polyether).
- Application: Gun grade, liquid-applied. Conceal behind new construction.

**Sealants:**

- Master Seal NP 150 as manufactured by BASF The Chemical Company, or Equal
- Primers: As recommended by caulking and sealant manufacturer.
- Back-Up Material: Preformed rot or tube, flexible, non-extruding, closed cell polyurethane, polyethylene, polystyrene, butyl.
- Colors: As selected by Architect to match adjacent material.
- Location: Junction of different materials.

**Thermal Insulation:**

- Fiberglass Batt Insulation:
  - As manufactured by CertainTeed, or Equal
  - R-Values / Thickness as indicated on drawings, or if not indicated (Attic: R-38, 2 layers R-19, installed at 90 degrees to each other.
- Attic Insulation Baffles:
  - As manufactured by ADO Products, or Equal
  - Engineered Insulation System: Where shown and indicated, provide 2-inch perimeter wall insulation system by InSoFast

**DIVISION 8 – OPENINGS**

**Pre-Hung Interior Wood Doors, Frames and Hardware:**

- As manufactured by Mastercraft, or Equal
- Size as indicated on drawings.
- Type: Factory primed and field painted (2 coats)
- Wall anchors: At least 3 / jamb and as recommended by manufacturer.
- Reference drawings and hardware specification Section 087100 for additional information

**DIVISION 9 – FINISHES**

**Gypsum Board:**

- Made in the USA
- As manufactured by USG, or Equal
- Gypsum Board, Type X: ASTM C 1396/C 1396M, Tapered long edges
- Moisture and Mold-Resistant Gypsum Board: ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces, tapered long edges
- Mold Resistance: ASTM D 3273, score of 10.
- Interior Trim: ASTM C 1047, plastic shapes as required.
- Provide Level 4 finish unless noted otherwise

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**Cementitious Backer Units:**

- Durock, as manufactured by USG, or Equal
- ANSI A118.9 or ASTM C1325, Type A.
- Accessories: As recommended by manufacturer to complete the work.

**Ceramic Tile & Grout:**

- Tile: Mohawk Krystal Slate - Storm, Model # KS201212HS1P6, SKU # 738-6166, size 12x12, or Equal
- Mortar & Grout: TEC / H. B. Fuller, Mapei, or Equal
- Comply with F113-11 and other applicable portions of the TCNA Handbook
- Moisture Vapor Emission: Measure with anhydrous calcium chloride test (ASTM F1869) and provide moisture barrier as recommended by tile and grout manufacturers
- Floor Preparation: As recommended by tile and grout manufacturers
- Mortar: Latex-Portland Cement, Modified Dry-Set Mortar (Thinset): ANSI A118.4.
- Additives: As required and recommended by tile and grout manufacturer
- Standard Cement Grout: ANSI A118.6.
- Grout Color: As selected by Owner from manufacturer's full range of standard colors
- Accessories: Provide transition strips as required between carpet and tile
- Provide ADA compliant walking surface. Coefficient of Friction: 0.42 minimum
- Owner stock: Provide 10% (1 carton minimum) for maintenance purposes

**Laminate Flooring:**

- Underlayment: Healthier Choice Sound Insulation, Model # SSVB4900P, SKU # 709-6334, or Equal.
  - R-Value: 0.36. IIC Rating: 73. Moisture Protection: 10 lbs / 1,000 SF in 24 Hours.
  - Density: 20 lbs. Thickness: 0.125 inch. Antimicrobial Treatment: Yes
- Laminate: Tarkett Bravado - Restored Pine Caramel, Model # 36045100306, SKU # 740-3403 or Equal.
  - Size: 8-1/16" W x 47-5/8" L x 8 mm T. Manufacturer Warranty - 25 years.
- Accessories: Provide U-Track and matching T-Moulding and Multi-purpose Reducers as required to complete the work.

**Carpet:**

- Pad: Healthier Choice SpillMaster Gold, Model # GLD270\_ST, SKU #701-1306, or Equal.
  - Antimicrobial Treatment: Ultra-Fresh. R-Value: 1.2. Flammability: FF 1-70 and as required.
  - Water resistant and breathable.
- Carpet and Styles: U-Carpet Home Décor, Stena Model # 451211461, SKU # 780-1619 and Habit Model # 451313623, SKU # 780-1614, or approved Equal.
- Yarn: 100% BCF Velana Olefin
- Primary and Secondary Backing: Woven Polypropylene
- Roll Width: 12'-0"
- Face Weight: 24 oz. / sq yard
- Stitches: 12 per inch
- Style and Color: As selected by Owner from manufacturer's full range (5 minimum) of standard variations.
- Accessories: Provide transition strips as required between laminate and tile
- Stretch-in Floor Installation Preparation: As recommended by carpet manufacturer
- Manufacturer's Warranty: 10 years
- Owner stock: Return excess carpet to Owner for maintenance purposes

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**Painting:**

- Paint and Enamel: As manufactured by one of the following: Benjamin Moore, Sherwin-Williams, or Equal
- Preparation: As noted and as recommended by paint manufacturer to suit substrate indicated.
- Coats: Primer + 2 Finish Coats.
- Color: As selected by Owner from manufacturer's full range of standard colors
- Finish: Semi-Gloss, unless noted otherwise.
- Submit product data and draw down samples for selection and approval
- Exterior Paint Schedule
  1. Wood and Metal:
    - a. Primer: 'Fresh Start' All-Purpose Alkyd Primer 024.
    - b. Finish: 'MooreGlo' N096 100% Acrylic House & Trim Paint.
  - c. Location: Exterior Doors and Window Trim
- Interior Paint Schedule:
  1. Gypsum Board:
    - a. Primer: PRO-MAR latex wall primer.
    - b. Finish: PRO-MAR Alkyd Semi-Gloss.
  2. Wood:
    - a. Primer: Wall and wood primer
    - b. Finish: PRO-MAR Alkyd Semi-Gloss.
  3. Gypsum Board where indicated:
    - a. Primer: Corotech Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss
    - b. Finish: Corotech Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss
  4. Cement Board
    - a. Primer: Corotech Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss
    - b. Finish: Corotech Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss
  5. Clay Masonry Units
    - a. Preparation (Step 1): Carefully remove embedded fasteners without spalling brick surface, or cut off and file exposed ends flush with wall surface.
    - b. Preparation (Step 2): Clean with Simple Green Industrial Cleaner and Degreaser. Wet scrape and wet sand to sound condition. Allow to thoroughly dry.
    - c. Primer (Exposed Fasteners): Spot prime with Pro Industrial Pro-Cryl Universal Primer, B69W01310.
    - d. Primer (Chalky or Powdery Surface): Loxon Acrylic Conditioner, LX03V0100.
    - e. Primer (Non Chalky or Powdery Surface): Spot prime bare areas with Loxon Concrete & Masonry primer.
    - f. Finish: Solo 100% Acrylic Interior/Exterior Latex Paint, Extra White Base, A75W00051, tint to color as selected by Architect. Eg-Shel finish.

**DIVISION 10 – SPECIALTIES**

**Toilet Accessories:**

- Toilet Tissue Holder: Model # 067\_CD4732CP, SKU # 6750037
- Towel Bar: Model # 064\_CD6824BN, SKU # 6750343
- Reference drawings for additional information

**KITCHEN 04:**

- Kitchen: As seen at Menards
- Cabinets:
  - Manufacturer: Cardell Cabinetry, or Equal
  - Collection: Cardell Concepts; Lanston
  - Size: Reference Drawings
  - Color: White
  - Model: Reference Kitchen Elevations for Base and Wall cabinet Model / SKU #'s, Sheet A-3
  - Hardware: Reference Kitchen Elevations, Sheet A-3

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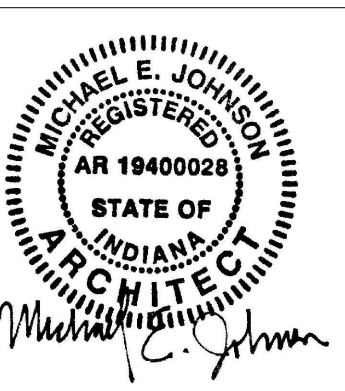
- Countertop and Backsplash:
  - Manufacturer: CustomCraft Countertops, or Equal
  - Size: Reference Drawings and coordinate with cabinets as required
  - Edge Style: No Drip
  - Color: Basalt Slate, Standard
  - Cutsouts: As required
  - Accessories: As required, including Miter Bolts, Miter Glue, Endcaps, Moulding, and Trims.
  - Provide laminate on all exposed surfaces
- Sink:
  - Manufacturer: Tuscany
  - Type: Stainless Steel, Offset
  - Gage: 18
  - Model: ST3322D2
  - SKU: 672-4120
  - Mounting: Top Mount
- Sink Strainers:
  - Manufacturer: Plumb Works
  - Type: Stainless Steel, Basket Strainer
  - Location: Each Drain
  - Model: 679-1164
  - SKU: 679-1164
- Faucet:
  - Manufacturer: Delta
  - Type: Stainless Steel, Classic 1 Handle
  - Accessories: Matching Side Sprayer
  - Model: 400-SS-DST
  - SKU: 673-0025
- Under Cabinet Mounted Lighting:
  - Reference Sheet E-1
- **BATHROOMS 05 and 09:**
- Vanity Ensemble: As seen at Menards. Provide listed items within each Bathroom. Reference drawings for Base Bid and Alternate scopes of work.
- Vanity (Bathroom 05 Only):
  - Manufacturer: Magick Woods
  - Collection: Elements; Brighton
  - Size: 36" W x 32" H x 21" D
  - Color: Dark Chocolate Finish
  - Model Number: 30002
  - SKU: 605-4602
- Vanity (Bathroom 09 Only):
  - Manufacturer: Magick Woods
  - Collection: Elements; Brighton
  - Size: 30" W x 32" H x 21" D
  - Color: Dark Chocolate Finish
  - Model Number: 30001
  - SKU: 605-4601
- Pulls (Each Base and Medicine Cabinet):
  - Provide on each Door and Drawer
  - Manufacturer: Hickory Hardware
  - Collection: Rotterdam
  - Finish: Satin Nickel
  - Size: 3-3/4" C.C.
  - Model Number: P3113-SN
  - SKU: 223-3965

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- Vanity Top (Bathroom 05 Only):
  - Manufacturer / Brand Name: Tuscany
  - Size: 37" W x 22" D Square Top
  - Color: White
  - Model Number: MC90375
  - SKU: 607-9923
- Vanity Top (Bathroom 09 Only):
  - Manufacturer / Brand Name: Tuscany
  - Size: 31" W x 22" D Square Top
  - Color: White
  - Model Number: MC90374
  - SKU: 607-9922
- Medicine Cabinets:
  - Manufacturer: Magick Woods
  - Collection: Elements; Brighton
  - Mounting: Recessed
  - Size: 24" W x 30" H x 6-1/4" D
  - Color: Dark Chocolate Finish
  - Model Number: 30005
  - SKU: 677-1011
- Faucets:
  - Reference Fixture Schedule Sheet P-2
  - Vanity Faucet
    - Model Number: 84537SRN
    - SKU: 673-4665
    - Finish: Brushed Nickel
  - Tub / Shower Faucet Set
    - Model Number: 1125BN
    - SKU: 673-6111
    - Finish: Brushed Nickel
- Tub / Shower:
  - Reference Fixture Schedule Sheet P-2
- Water Closet:
  - Reference Fixture Schedule Sheet P-2
- Vanity Lighting:
  - Reference Sheet E-1

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402 WEST WASHINGTON STREET  
INDIANAPOLIS, INDIANA 46204  
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Revisions:

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File Number:	37 - 46
Drawing Number:	G-2
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# SCOPE OF WORK SUMMARY

## BASE BID

### DEMOLITION / REMOVAL

1. Disconnect and remove all existing electrical wiring, receptacles and electrical panels.
2. Disconnect water and sewer lines. Remove plumbing fixtures and pipes that are not being used in new layout, and cap off below finish floor.
3. Cut concrete slab for new water and sewer connections for both bathrooms, kitchen and laundry. See drawing P-1.
4. Cut concrete slab for electrical conduit in the Kitchen 04, between wall next to refrigerator and future kitchen island. See drawing E-1.
5. Remove existing floor drain covers and fill with concrete.
6. Existing furnace to remain. Protect existing HVAC ducts and gas service.
7. Remove all windows and door in Master Bedroom 08 and Bathroom 09.

### NEW CONSTRUCTION INTERIOR

1. Install rough-in plumbing for both bathrooms, kitchen and laundry. Construct new roof penetration and vent for Kitchen 04, Bathroom 05 & Laundry 13. Install new water heater as shown on floor plan, connect to existing water supply and existing sewer lines. Cut and patch floor with concrete as required for connections.
2. Prepare interior surface of brick walls to meet InSoFast Manufacturer requirements for installation of Engineered Insulation System.
3. Install InSoFast U.O 2.0 using mechanical attachment method as per InSoFast Manufacturer recommendations.
4. Construct new 2x4 @ 16" c.c. stud walls as shown on the floor plan (drawing 1/A-1). Wet wall at Bathroom 09, shall be 2x6 @ 16" c.c. Secure bottom plate to existing slab with Red Head Trubolt 1/4" x 3-1/4" T84C-1432 (typical). See drawing A-2 for wall sections.
5. Install new electrical wiring, electrical receptacle boxes, receptacles and new electrical panel. Connect to existing electric meter.
6. Install new electrical wiring between future kitchen island and new electric panel. See drawing E-1. The electric wiring running in existing concrete slab shall be installed in conduit.
7. Install new insulated spiral duct and flexible ducts extending supply air from existing ducts to the ceiling in every room.
8. Install baffles and a minimum R-38 batt insulation in the attic above every part of the building which is remodeled (see 1/A-1).
9. Install 5/8" type 'X' gypsum board at the ceiling over entire remodeled area.
10. Tape, spackle, finish level 4, paint (primer and 2 coats) ONLY at the following: Entrance 01, Living 02, Dining 03, Kitchen 04, Hall 11, Laundry 13, Closet 12, Gallery 10, Master Bedroom 08, Linen 15, Closet 16.
11. Install 1/2" gypsum board at walls as shown on floor plan 1/A-1. Install 1/2" cement board only at wet walls in both bathrooms and behind the kitchen sink.
12. Tape, spackle, finish level 4, paint walls (primer and 2 coats), ONLY in rooms listed under item 10.
13. Install new windows type 'A' (four windows) and 'B' (one window), install jamb/head/sill extensions and window trim, paint windows extensions and trim. Install sealant (Master Seal NP 150) at the exterior perimeter. See drawings 3/A-2, 5/A-2, 7/A-2, 8/A-2 and 9/A-2.
14. Install new door (08-B) and interior trim. Paint door, frames and trim. Apply sealant (Master Seal NP 150) at the exterior door perimeter.
15. Install kitchen cabinets and laminate countertop, see 3/A-3 and 4/A-3.
16. Install all plumbing fixtures, sink cabinet and medicine cabinet in Bathroom 09. See sheet G-2 for specs. Install kitchen sink and install laundry connections.
17. Install light fixtures. See drawing E-1.
18. Install ceramic tiles in Entrance 01 and Bathroom 09. No floor base in base bid.
19. Prepare and paint exposed brick wall in Gallery 10 and paint existing window trim and sills of Gallery 10 and Living 02.
20. Prepare and paint exposed brick wall in Dining 03 and Kitchen 04.

## ALTERNATE #1

1. Remove six existing windows in Gallery 10 and Living 02.
2. Install new double hung windows type 'C' in existing brick masonry opening. Prepare opening with exterior treated plywood (or treated wood) fastened to brick. Follow Window Manufacturer recommendation for installation. Apply sealant at the exterior perimeter. See sheet A-2 for details.
3. Install additional stainless steel flashing at the window head and sill. See drawing 2/A-2 for flashing detail.
4. At the interior install jamb/head/sill extensions and window trim. Paint windows (exterior and interior) and paint all wood extensions and trim. See sheet A-2 for details.

## ALTERNATE #2

1. Remove existing windows in Bedroom 06 and existing door in Bedroom 07.
2. In Bedroom 06 remove existing sill and brick to enlarge height of the new window opening to match existing double hung windows on East elevation. See 4/A-2.
3. In Bedroom 07, install new full glass door with hardware. Install jamb/head extension, exterior door flashing, exterior trim. Paint exterior and interior as specified. See sheet A-3 for door elevation and door schedule.
4. Install new sills where required matching existing material at two windows opening (Bedrooms 06 & 07). New sills in Bedroom 06 to match existing sills length, width, depth and shape. Reuse existing if suitable for reuse. New sill at Bedroom 07 to extend approx. 4" beyond each side of window opening. Match existing appearance.
5. Install new double hung window type 'D' in Bedroom 07 as per window Manufacturer recommendations. Prepare opening with exterior treated plywood (or treated wood) fastened to brick. Follow Window Manufacturer recommendation. Apply sealant at the exterior perimeter, typical all windows.
6. Install new stainless steel flashing at the window head and sill. Typical all windows. See drawing A-2 details 7/A-2, 8/A-2 & 9/A-2 for flashing details.
7. At the interior, install jamb/head/sill extensions, excludes window trim (see Alternate #3). Paint windows (interior and exterior) and wood extensions, typical.

## ALTERNATE #3

1. Bedroom 06 and Bedroom 07: tape, spackle and finish gypsum board to Level 4, both ceiling and walls.
2. Install new windows & doors trim, paint trim. Coordinate with Alternate #2 as required.
3. Install pad, carpet, and wood base, paint base.

## ALTERNATE #4

1. Install plumbing fixtures in Bathroom 05.
2. Install linen cabinet pre-hung door.
3. Tape, spackle and finish wall and ceiling gypsum board to Level 4, paint. Install ceramic tile floor.
4. Install door casing and wood base, paint.

## ALTERNATE #5

1. Install underlayment and laminate floor in: Living 02, Dining 03, Kitchen 04, Hall 11, Closet 12, Laundry 13, Gallery 10 and Storage 17.
2. Install underlayment and carpet in Master Bedroom 08 and Closet 16, location when different floor materials meet.
3. Install wood base in: Living 02, Dining 03, Kitchen 04, Hall 11, Closet 12, Laundry 13, Gallery 10, Master Bedroom 08, Closet 16, Bathroom 09, Linen 15 and Entrance 01.
4. Paint wood base as specified.

## ALTERNATE #6

1. Install kitchen island with cabinets and laminate countertop as shown on drawing 6/A-3 & 7/A-3.
2. Install duplex GFCI receptacle on one end of the island.
3. Extend electrical from floor box to new GFCI.



Certified by:

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STATE OF INDIANA  
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**DIVISION OF ENGINEERING**  
 ROOM W299, INDIANA GOVERNMENT CENTER SOUTH  
 402 WEST WASHINGTON STREET  
 INDIANAPOLIS, INDIANA 46204  
 TEL: 317-232-4150, FAX: 317-231-1205

Revisions:

Project Number:  
**ENG1803727638**

Revision Number:  
**105143**

Designer:  
 B.D., M.J. **09-05-2019**

Drafter:  
 B.D. **AS NOTED**

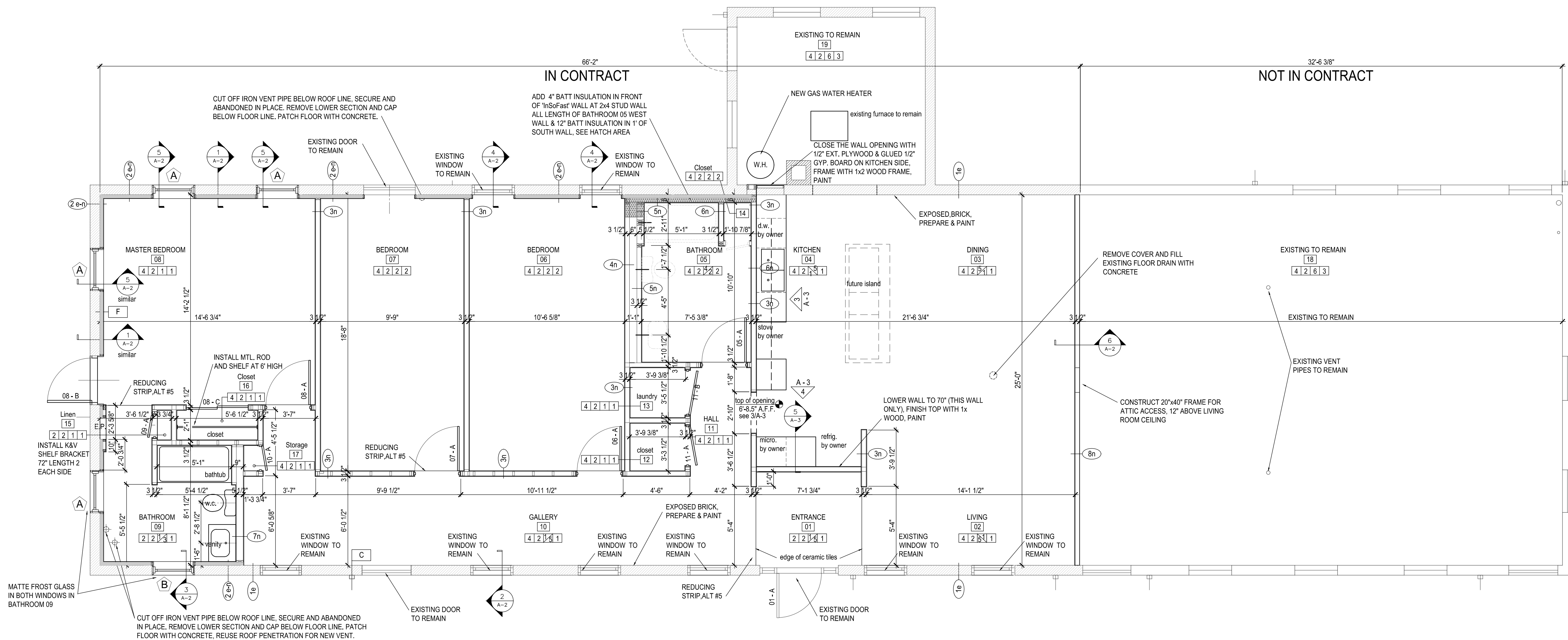
DNR Approval:

Client Approval:

File Number:  
**37-46**

Drawing Number:  
**A-1**

Sheet: **3** of **9**



**FLOOR PLAN**  
**BASE BID**  
 1/4" = 1'-0"  
 A-1

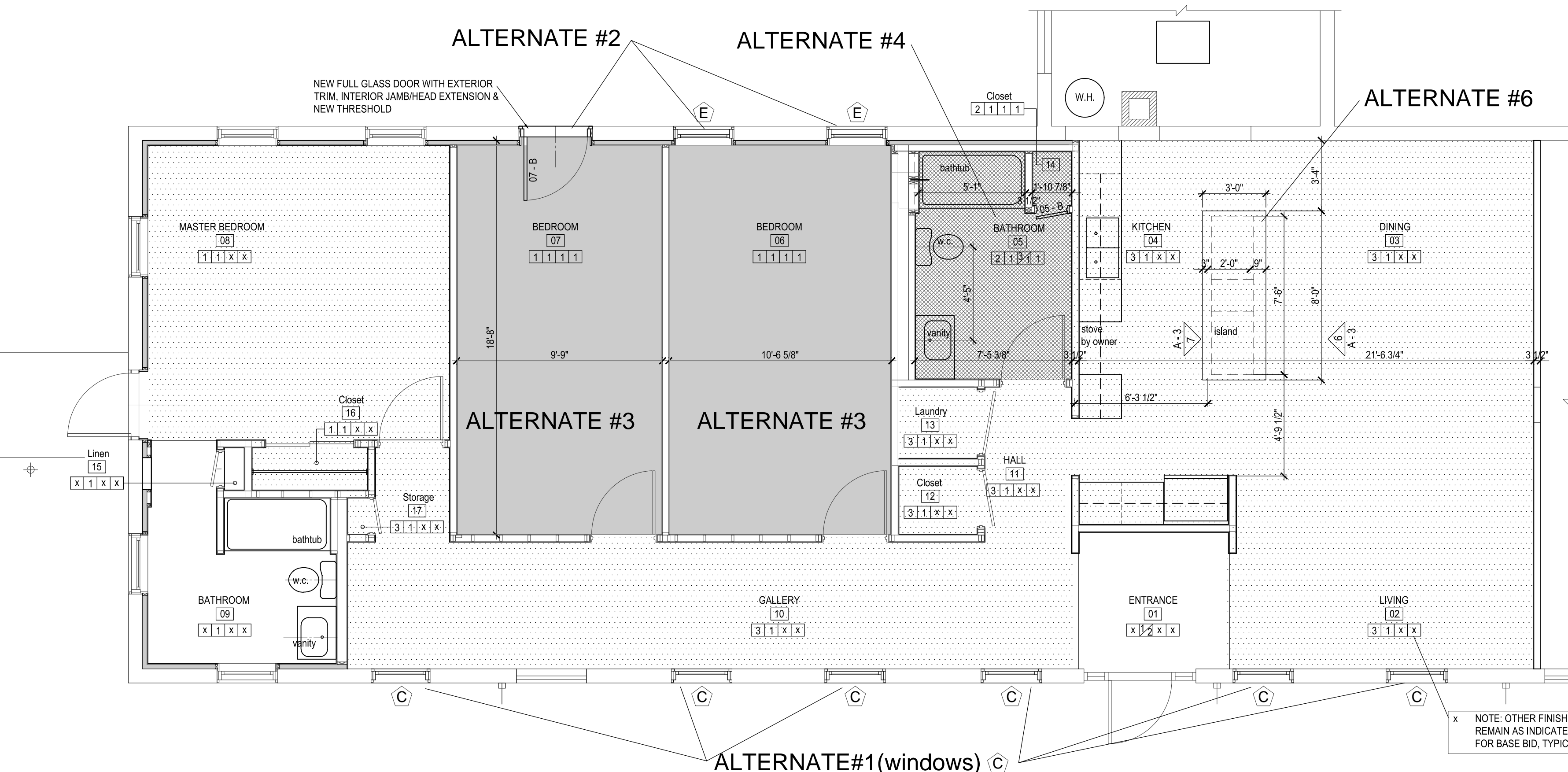
## LEGEND

- # GENERAL WALL CONFIGURATION  
 e - existing  
 n - new
- 1e EXISTING SOLID BRICK WALL, PREPARE & PAINT
  - 2en NEW InSoFast WALL WITH 1/2" GYP. BOARD MECHANICALLY FASTENED TO EXISTING BRICK WALL
  - 3n NEW 2x4 @ 16" C.C. STUD WALL WITH 1/2" GYP. BOARD BOTH SIDES
  - 4n NEW 2x4 @ 16" C.C. STUD WALL WITH 1/2" GYP. BOARD ONE SIDE
  - 5n NEW 2x4 @ 16" C.C. STUD WALL (EXCEPT 2x6 SOUTH WALL NEXT TO BATHTUB) WITH 1/2" CEMENT BOARD SECOND SIDE
  - 6n NEW 2x4 @ 16" C.C. STUD WALL WITH 1/2" GYP. BOARD ONE SIDE & 1/2" CEMENT BOARD SECOND SIDE
  - 7n NEW 2x6 @ 16" C.C. STUD WALL WITH 1/2" GYP. BOARD ONE SIDE & 1/2" CEMENT BOARD SECOND SIDE
  - 8n NEW 2x4 @ 16" C.C. STUD WALL WITH 5/8" TYPE 'X' GYPSUM BOARD AT ONE SIDE
  - # EXISTING DOOR TO REMAIN
  - # NEW DOOR
  - # EXISTING WINDOW TO REMAIN
  - # NEW WINDOW
  - F FOAM FILL GAPS IN WALL
  - C CUT OFF PVC FLUSH WITH FACE OF BRICK AND GROUT LOD
- NOTE:  
 PROVIDE 2x BRACING AS REQUIRED ALONG TOP OF WALLS PARALLEL WITH EXISTING TRUSSES

## FINISH SCHEDULE

FLOOR	BASE		WALL		CEILING
	1	1	1	1	
1. CARPET & PAD	1. 3" WOOD BASE	1. 1/2" GYP. BOARD (LEVEL 4) PAINT	1. 5/8" TYPE 'X' GYP. BOARD (LEVEL 4) PAINT	1. 5/8" TYPE 'X' GYP. BOARD (LEVEL 4) PAINT	
2. CERAMIC TILE	2. NONE	2. 1/2" GYP. BOARD NO TAPE OR SPACLE	2. 5/8" TYPE 'X' GYP. BOARD NO TAPE OR SPACLE	2. NONE	
3. LAMINATE FLOOR		3. CEMENT BOARD (LEVEL 4) PAINT			
4. EXISTING TO REMAIN		4. CEMENT BOARD INSTALL ONLY			
		5. EXPOSED BRICK PAINT			
		6. EXISTING TO REMAIN			

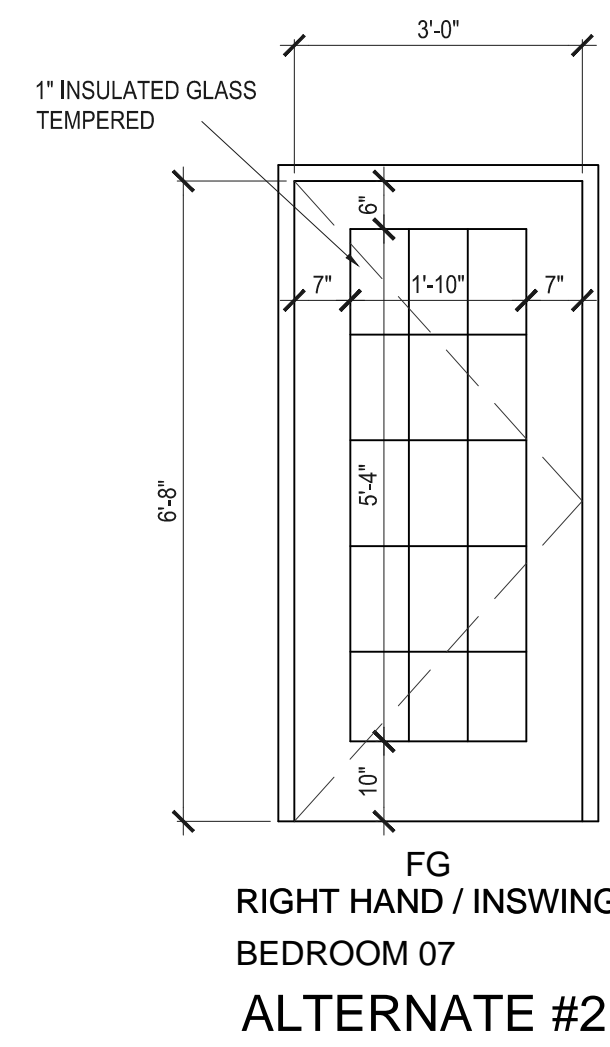
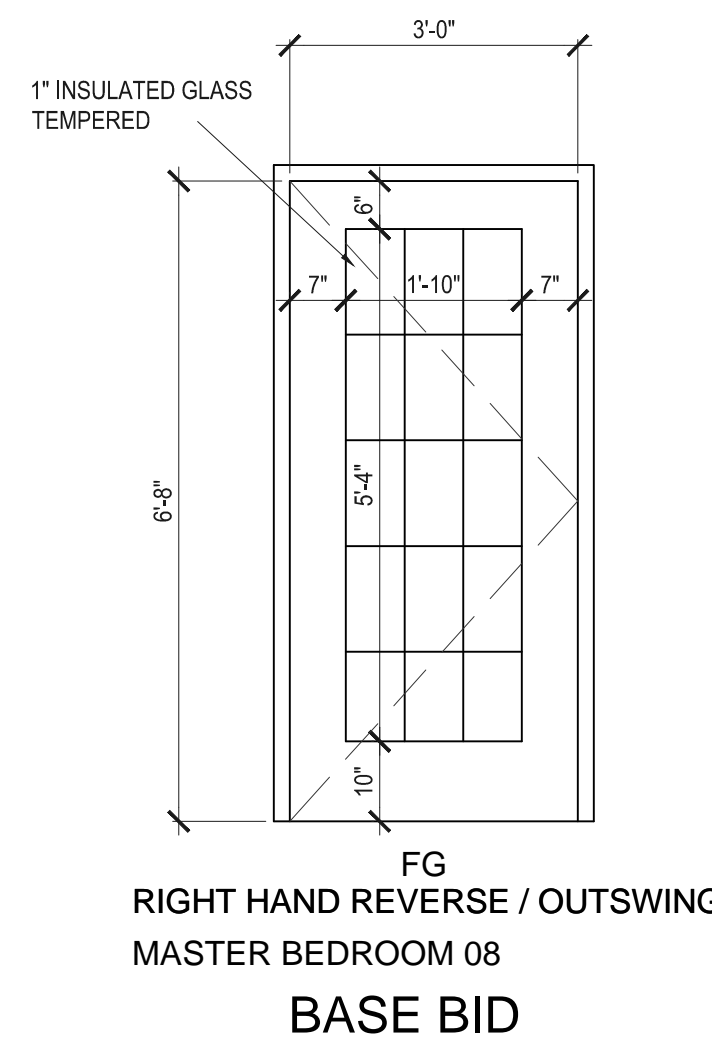
- NOTE:**
1. INSTALL CEMENT BOARD ON WET WALLS IN BATHROOMS & ABOVE KITCHEN SINK ONLY.
  2. ALL SILL PLATE SHALL BE TREATED WOOD.
  3. CLEAN AND SEAL EXISTING FLOOR TO REMAIN EXPOSED (EUCO CLEAN STRIP AND DIAMOND HARD).
  4. AT CONTRACTOR'S OPTION, PROVIDE INTERIOR FACTORY TRIMS (JAMB, HEAD, AND SILL EXTENSIONS) OR FIELD FABRICATED TRIMS. EXTERIOR TRIMS SHALL BE FACTORY FABRICATED AND FINISHED TO MATCH WINDOWS.
  5. ALL WINDOWS AND INTERIOR FACTORY TRIM TO BE FACTORY PAINTED.
  6. ALL FIELD FABRICATED TRIMS (AND FLOOR BASE) TO BE FIELD PAINTED.
  7. ALL PAINTED SURFACES SHALL BE PRIMED AND PAINTED (TWO COATS), SEE SPECIFICATIONS.



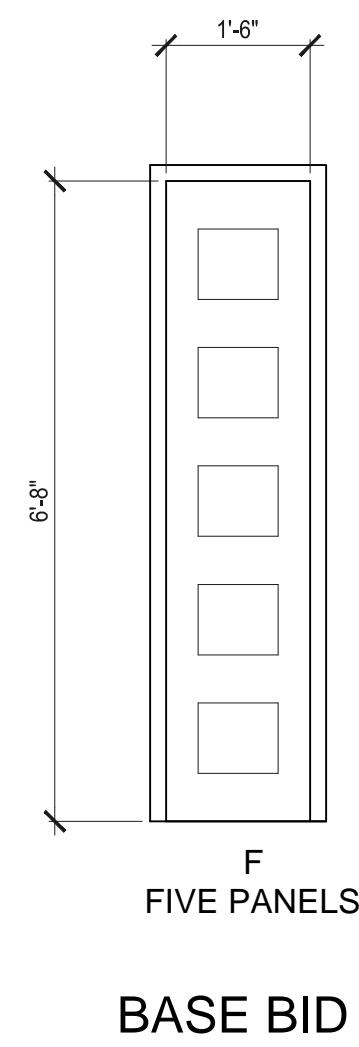
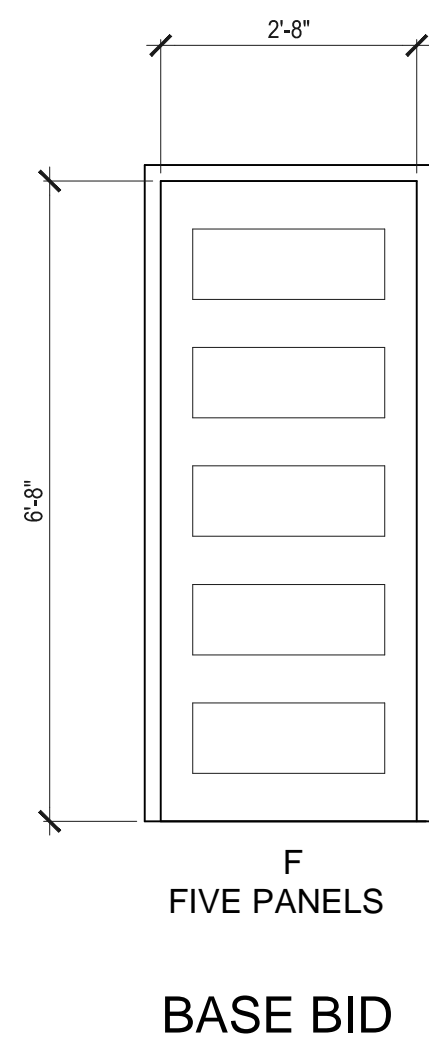
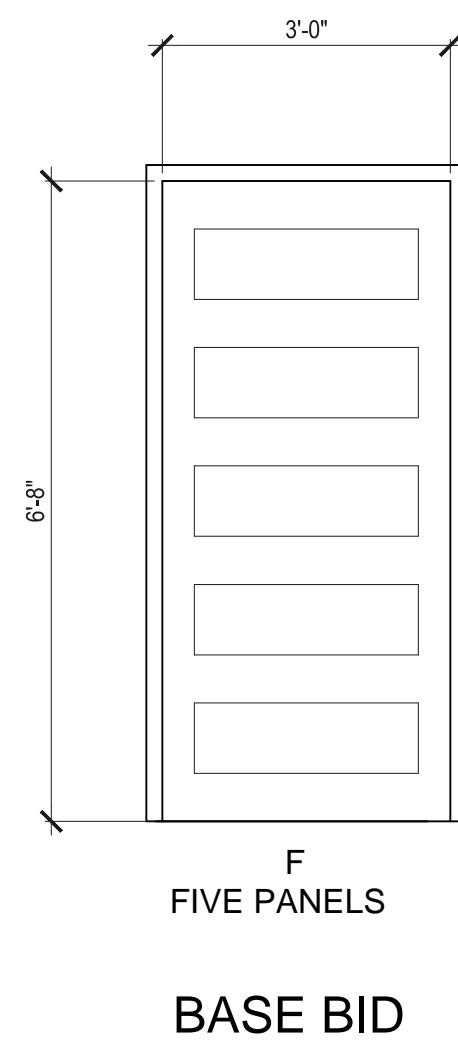
**FLOOR PLAN**  
**ALTERNATES**  
 1/4" = 1'-0"  
 A-1



**DOOR TYPES  
EXTERIOR**

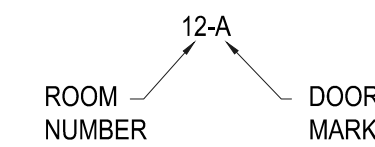


**DOOR TYPES  
INTERIOR**



**DOOR SCHEDULE**

DOOR NUMBER	DOOR			MATERIAL	ELEVATION	HDWR	FRAME MATERIAL	REMARKS
	W	H	T					
01-A						#1		EXISTING TO REMAIN
05-A	3'-0"	6'-8"	1 3/8"	WOOD	F	#3	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
05-B	1'-6"	6'-8"	1 3/8"	WOOD	F	#5	WOOD	ALTERNATE #4
06-A	3'-0"	6'-8"	1 3/8"	WOOD	F	#3	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
07-A	3'-0"	6'-8"	1 3/8"	WOOD	F	#3	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
07-B	3'-0"	6'-8"	1 3/4"	METAL	FG	#8	WOOD	PRE-HUNG PRIMED STEEL DOOR, 1" GLASS (22"x64"), GRILLS BETWEEN GLASS
08-A	3'-0"	6'-8"	1 3/8"	WOOD	F	#3	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
08-B	3'-0"	6'-8"	1 3/4"	METAL	FG	#2	WOOD	PRE-HUNG PRIMED STEEL DOOR, 1" GLASS (22"x64"), GRILLS BETWEEN GLASS
08-C	4'-0"	6'-8 1/2"	3/4"	Hdbd		#4	WOOD	3 PANEL SLIDING BYPASS DOOR AND HARDWARE
09-A	1'-6"	6'-8"	1 3/8"	WOOD	F	#5	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
10-A	1'-6"	6'-8"	1 3/8"	WOOD	F	#5	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
11-A	2'-8"	6'-8"	1 3/8"	WOOD	F	#6	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS
11-B	3'-0"	6'-8"	1 3/8"	WOOD	F	#7	WOOD	PRE-HUNG WOOD DOOR, FIVE PANELS

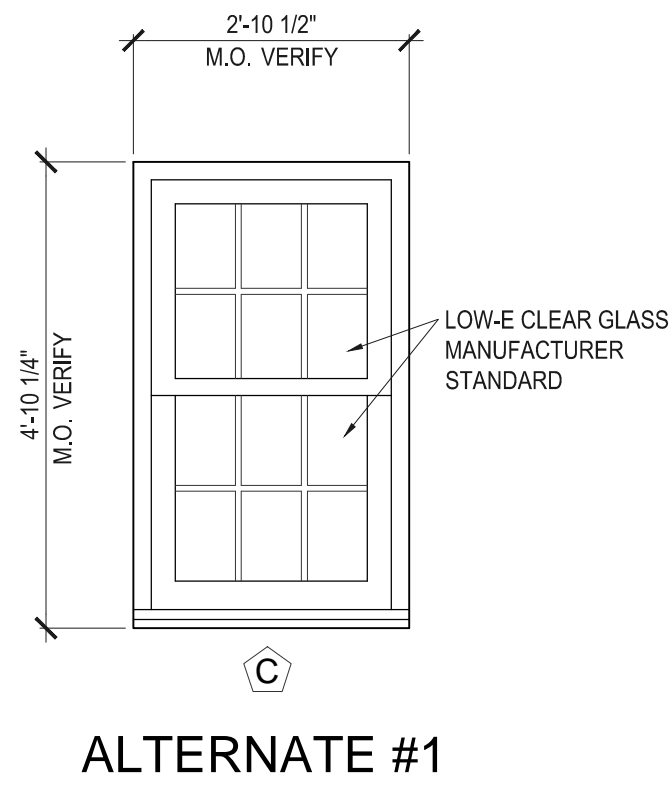
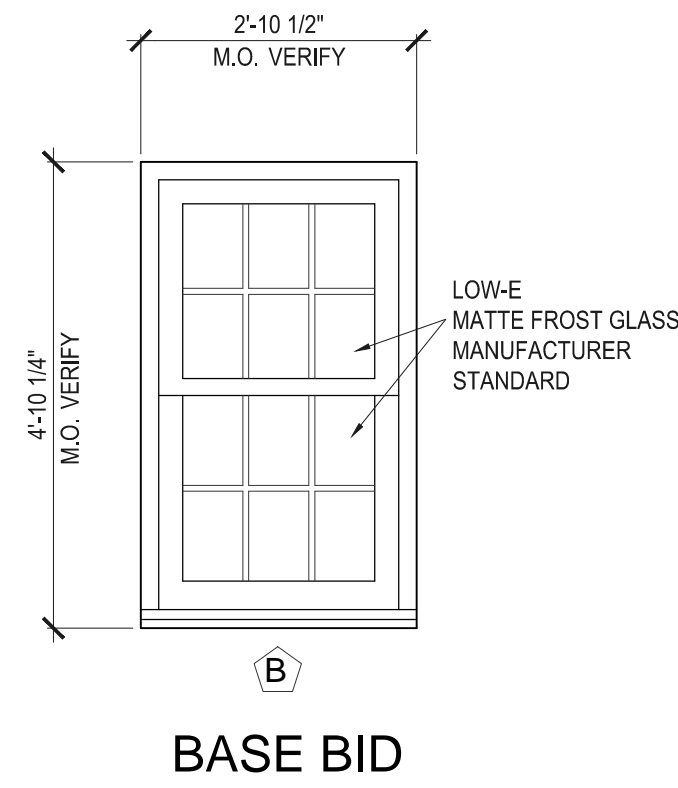
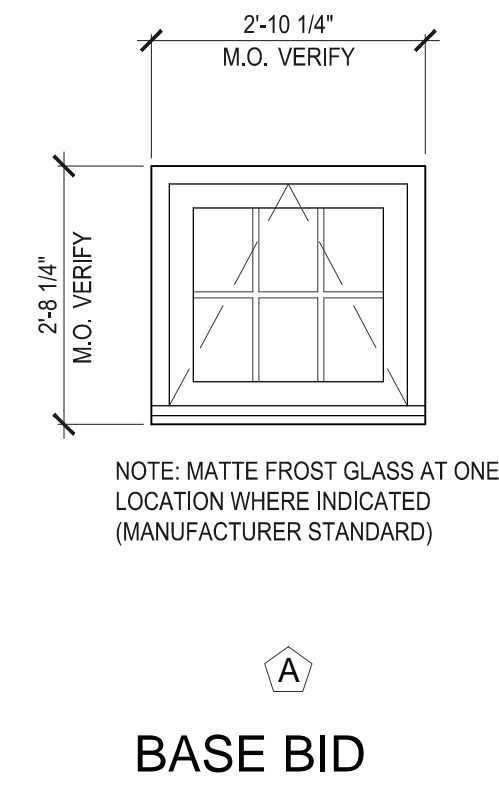


FG: FULL GLASS METAL DOOR MANUFACTURER STANDARD  
F: PRE-HUNG, PRIMED, FIVE PANEL WOOD DOOR, MANUFACTURER STANDARD

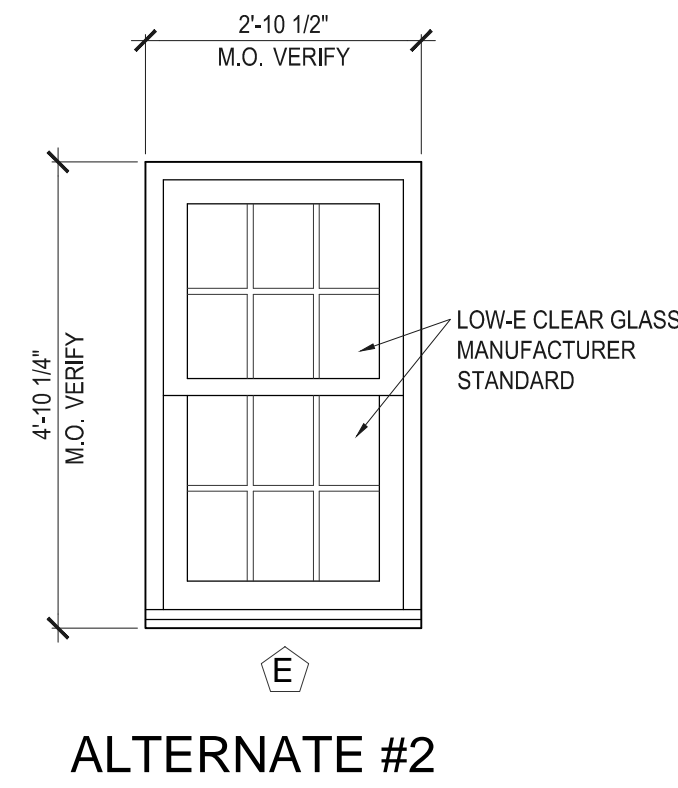
NOTE:  
UNDERCUT 1" ALL INTERIOR DOORS

**DOOR ELEVATIONS & SCHEDULE**

1/2" = 1'-0" A-3



D  
NOT USED

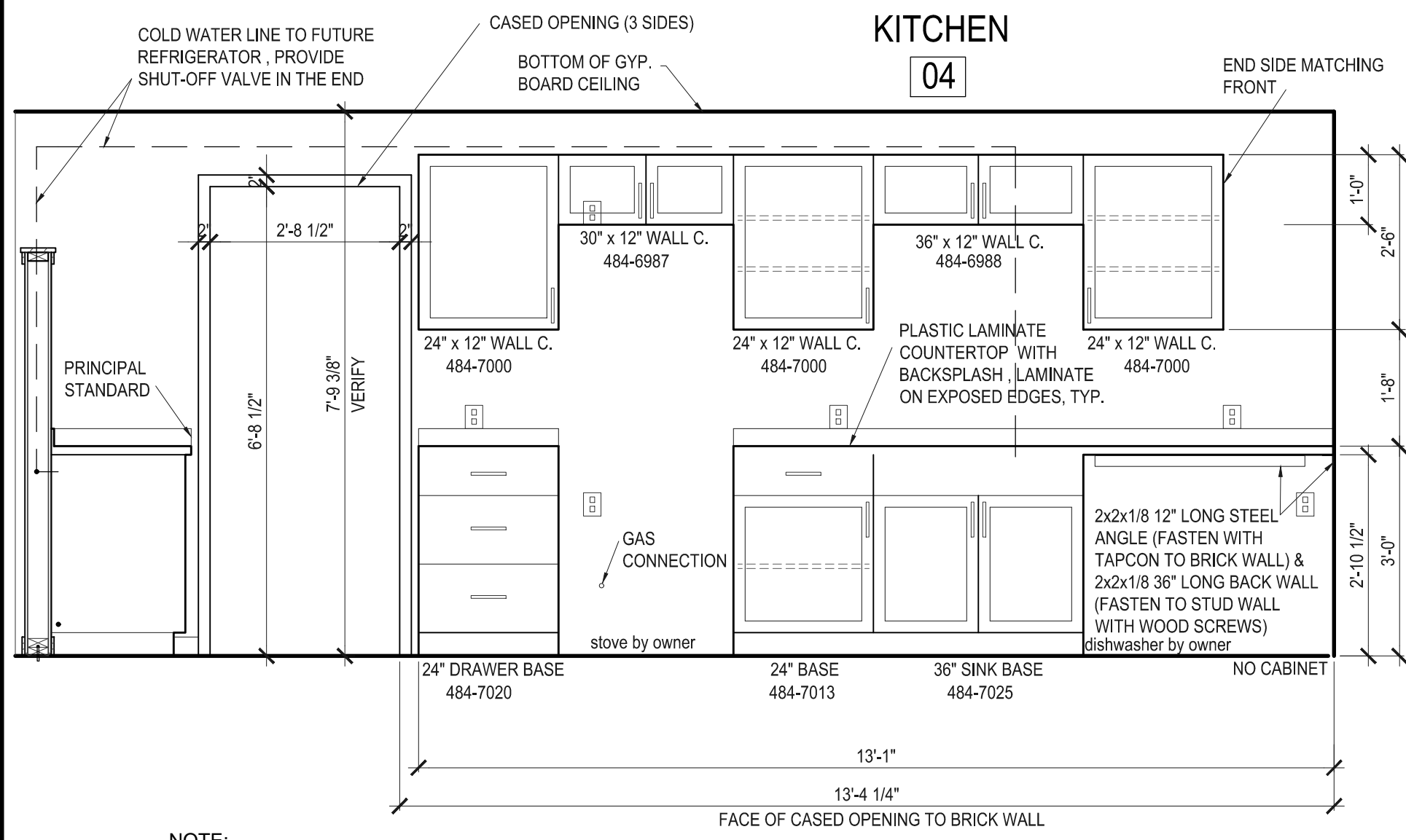


**NOTE:**

- ALL WINDOWS SHALL MATCH EXISTING Jeld-Wen Norco REPLACEMENT WINDOWS AS CLOSELY AS POSSIBLE.
- EACH WINDOW, WHETHER PRICED AS PART OF THE BASE BID OR AS AN ALTERNATE, SHALL INCLUDE THE FOLLOWING:
  - WINDOW UNIT (Auralast TREATED WOOD), FACTORY PAINTED
  - EXTERIOR TRIM (2" FLAT CASING) & 2" SILL NOSE (Auralast TREATED WOOD), FACTORY PAINTED
  - JAMB EXTENSIONS, FACTORY OR FIELD PAINTED
  - STOOL (HARDWOOD) FACTORY OR FIELD PAINTED
  - APRON & WINDOW CASING, FACTORY OR FIELD PAINTED

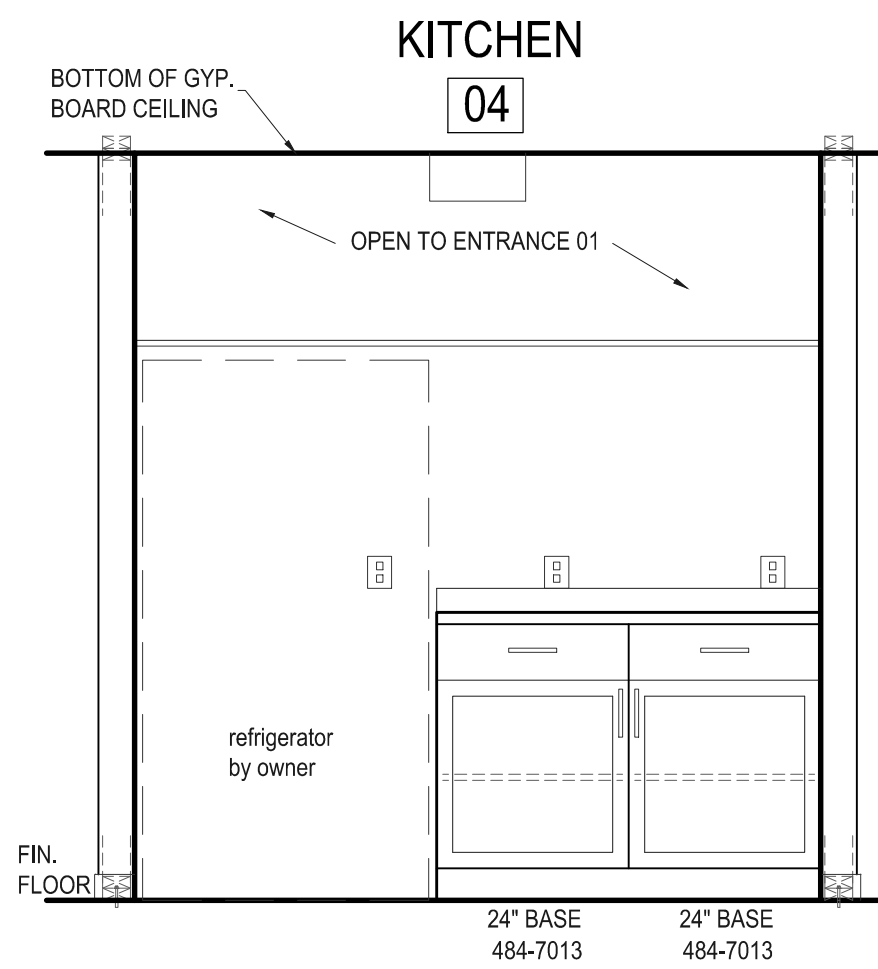
**WINDOW ELEVATIONS**

1/2" = 1'-0" A-3



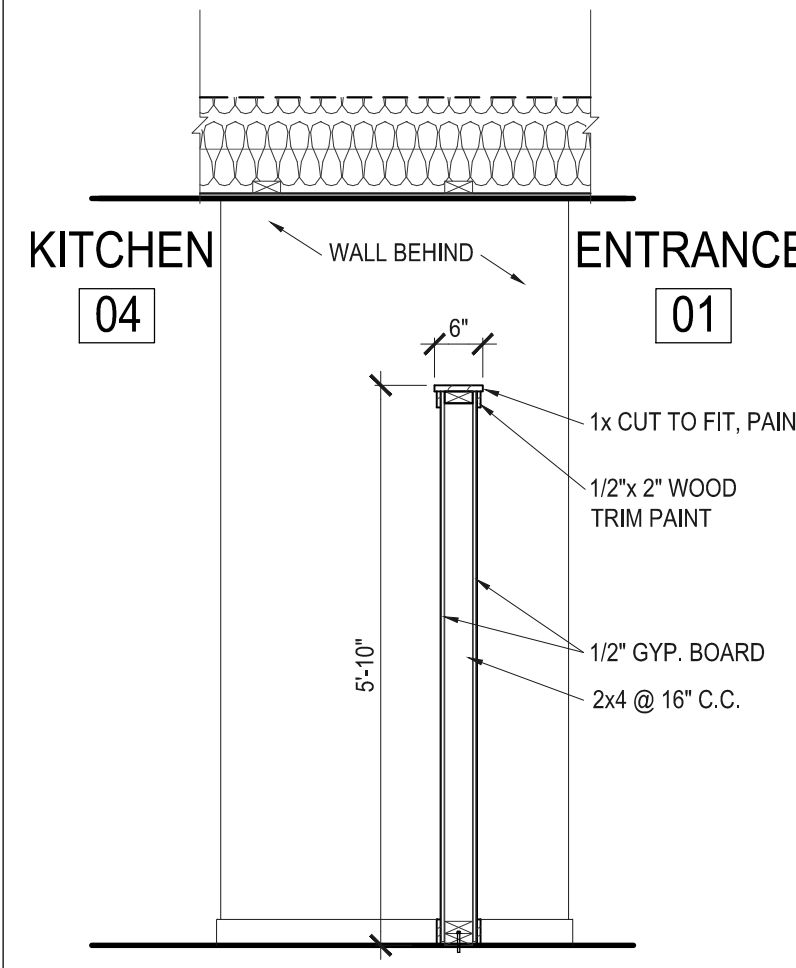
**KITCHEN CABINETS ELEVATION**  
BASE BID

1/2" = 1'-0" A-3



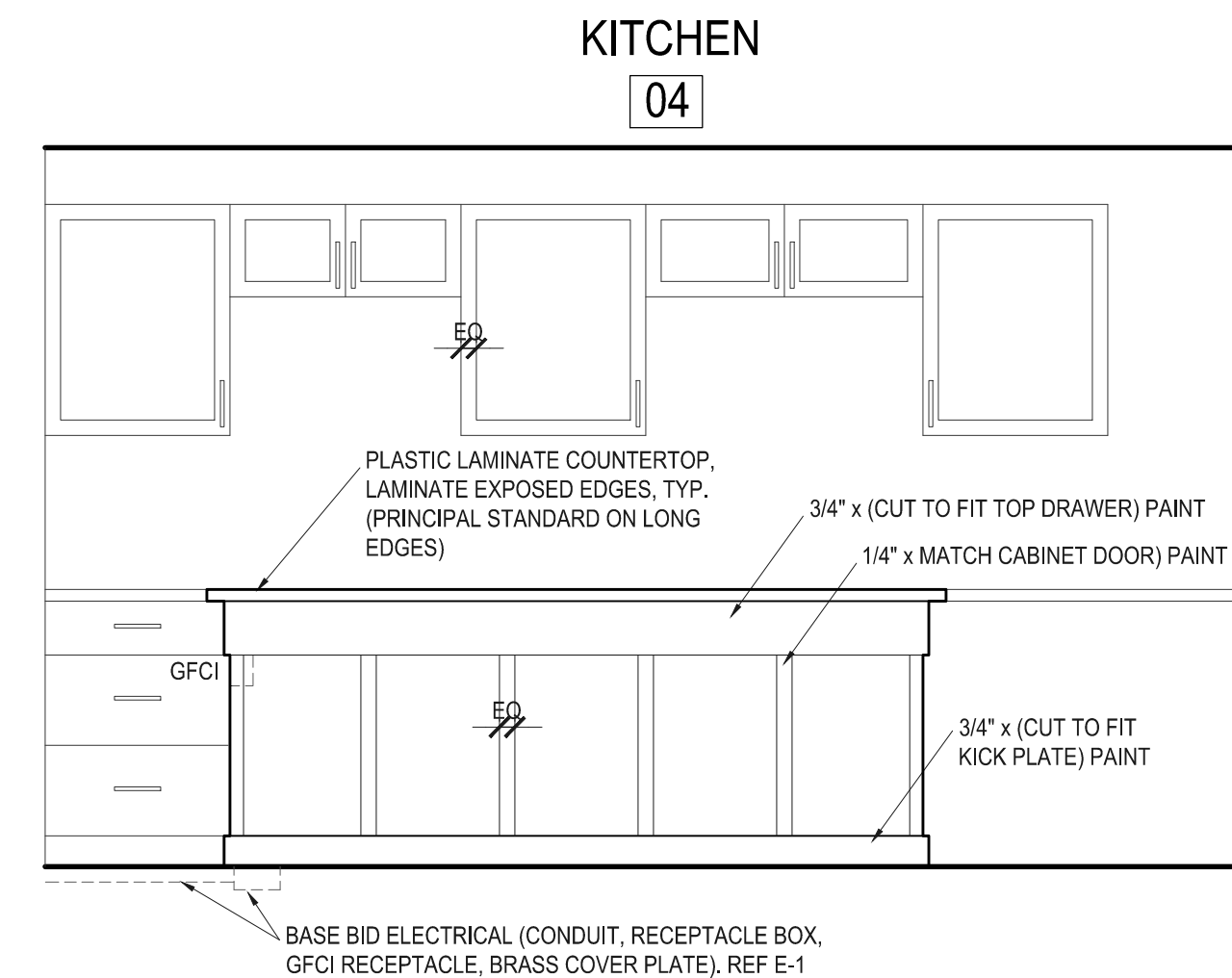
**KITCHEN ELEVATION**  
BASE BID

1/2" = 1'-0" A-3



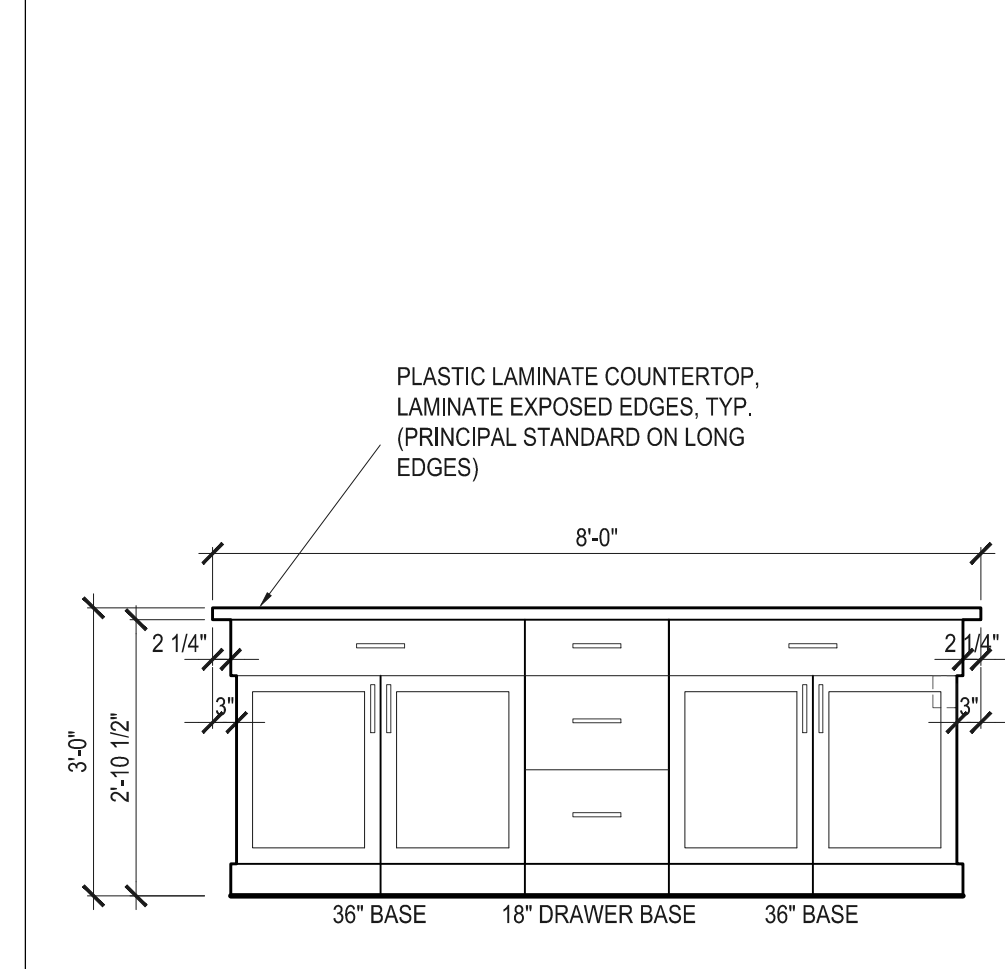
**WALL SECTION**  
BASE BID

1/2" = 1'-0" A-3



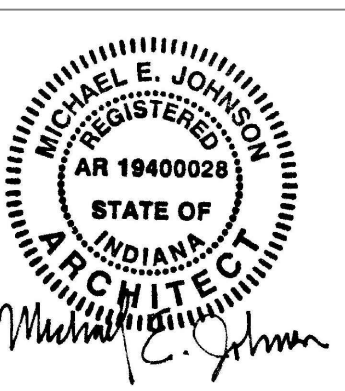
**KITCHEN ISLAND ELEVATION**  
ALTERNATE #6

1/2" = 1'-0" A-3



**KITCHEN ISLAND ELEV.**  
ALTERNATE #6

1/2" = 1'-0" A-3



Certified by:

**FORT HARRISON STATE PARK**  
BUILDING 803 CONVERSION TO APM RESIDENCE  
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5753 Glenn Rd.  
Indianapolis, IN 46216



STATE OF INDIANA  
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402 WEST WASHINGTON STREET  
INDIANAPOLIS, INDIANA 46204  
TEL 317-232-4150, FAX 317-231-1205

Revisions:

Project Number:  
**ENG1803727638**

Requisition Number:  
**105143**

Designer:  
B.D., M.J. **09-05-2019**

Drafter:  
B.D. **AS NOTED**

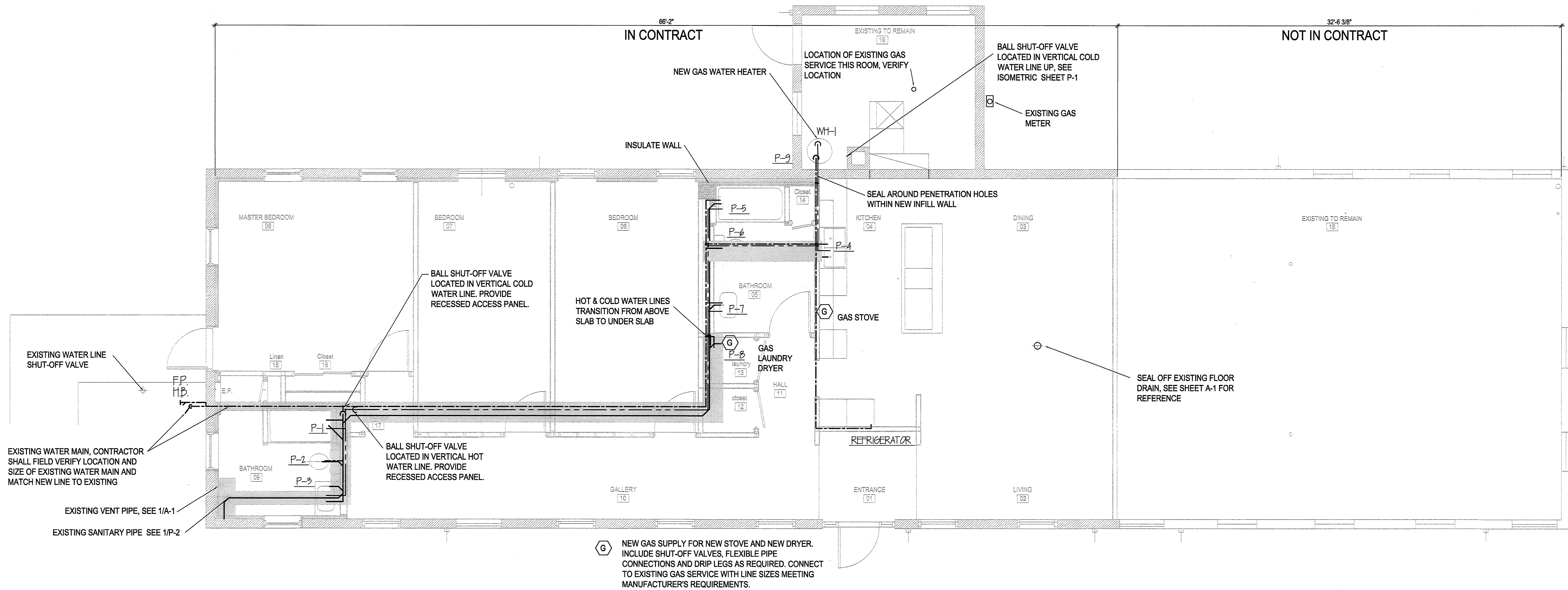
DNR Approval:

Client Approval:

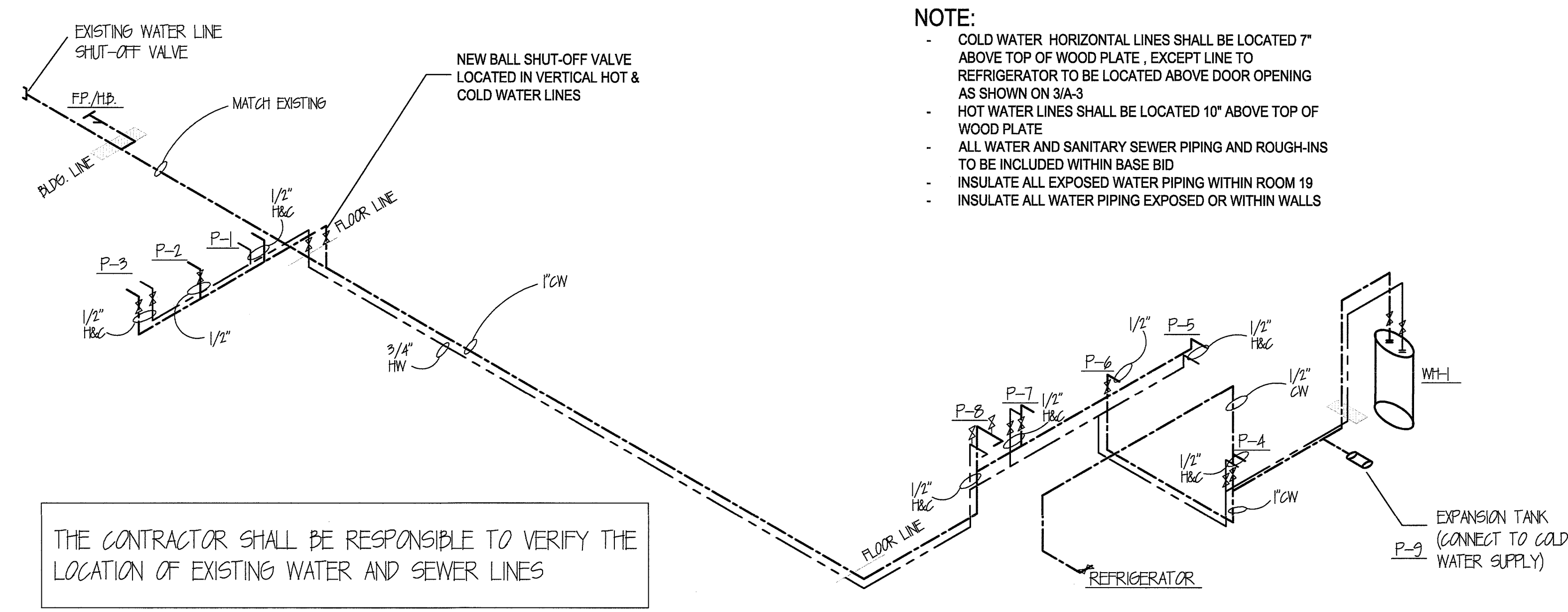
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Drawing Number:  
**A-3**

Sheet: 5 of 9



**PLUMBING - HOT & COLD WATER PLAN** 1 P-2  
N.T.S.



**NOTE:**

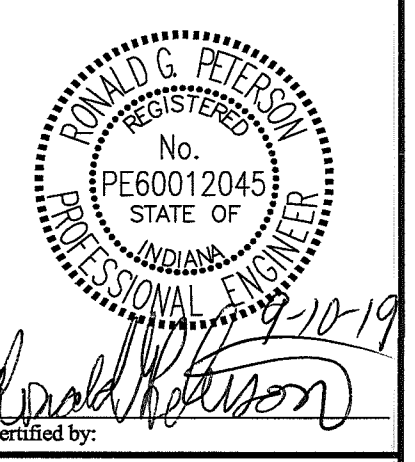
- COLD WATER HORIZONTAL LINES SHALL BE LOCATED 7" ABOVE TOP OF WOOD PLATE, EXCEPT LINE TO REFRIGERATOR TO BE LOCATED ABOVE DOOR OPENING AS SHOWN ON 3/A-3
- HOT WATER LINES SHALL BE LOCATED 10" ABOVE TOP OF WOOD PLATE
- ALL WATER AND SANITARY SEWER PIPING AND ROUGH-INS TO BE INCLUDED WITHIN BASE BID
- INSULATE ALL EXPOSED WATER PIPING WITHIN ROOM 19
- INSULATE ALL WATER PIPING EXPOSED OR WITHIN WALLS

**PLUMBING SYMBOLS**

- COLD WATER LINE
- HOT WATER LINE
- DIRECTION OF FLOW ( VARIOUS LINES )
- WASTE PIPING (DRAIN LINE)
- VENT PIPING
- EXT. CO. --- EXTERIOR CLEAN OUT
- CO. --- CLEAN OUT
- FD. W/ CO. --- FLOOR DRAIN W/ CLEANOUT (NOT USED)
- SHUT-OFF VALVE
- PIPING UNION ( FOR W/H ) DIELECTRIC
- FP/HB --- FREEZEPROOF HOSE BIBB
- AIR ADMITTANCE VALVE
- SHUT-OFF VALVE
- WATER LINES VERTICAL TRANSITION FROM UNDER SLAB TO ABOVE SLAB
- DRAWING P-1 WATER LINES UNDER SLAB
- DRAWING P-2 WASTE WATER UNDER SLAB
- SAW CUT SLAB AS REQUIRED.
- REFERENCE 5/P-2 FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING WATER AND SEWER LINES

**PLUMBING - HOT & COLD WATER ISO** 2 P-1  
N.T.S.



Certified by: *Donald G. Peterson*

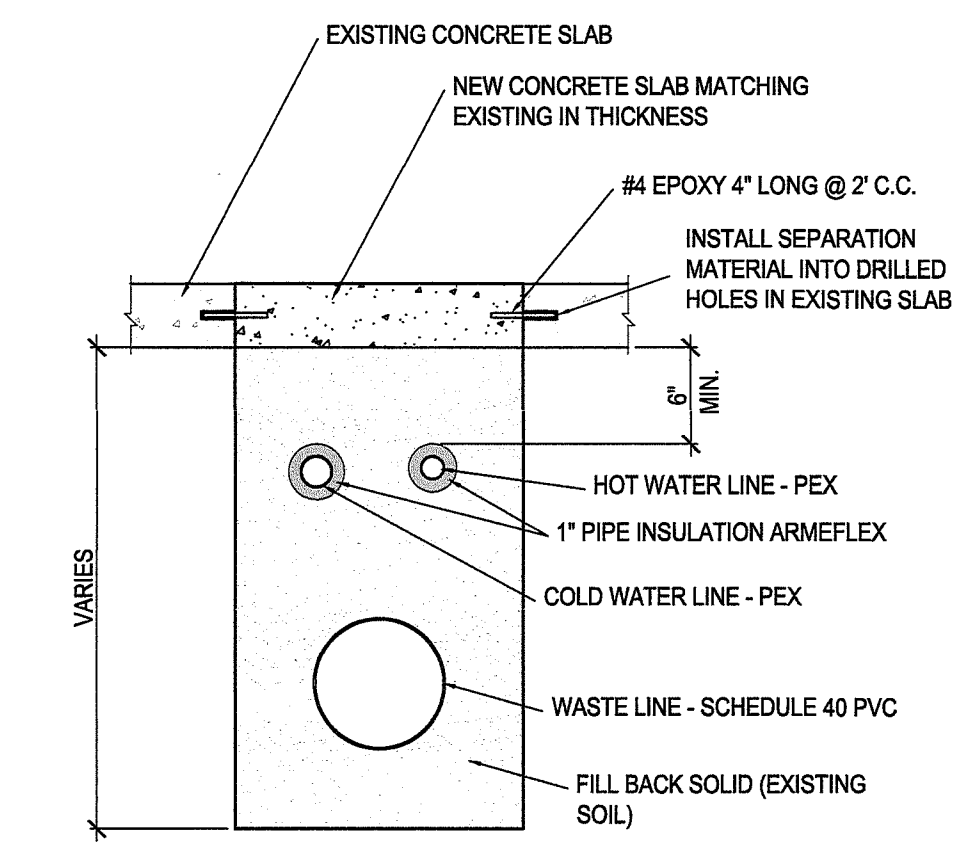
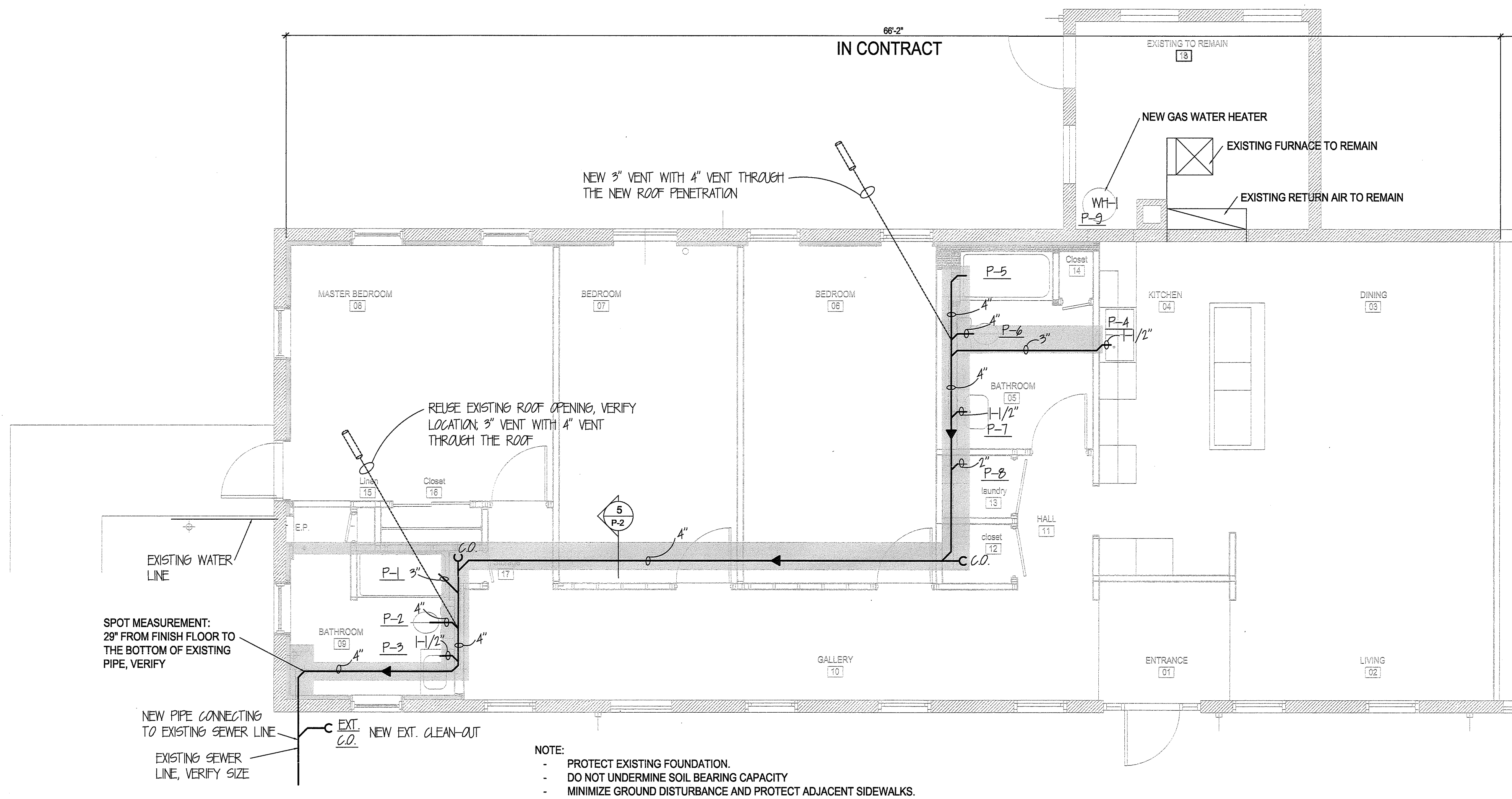
**FORT HARRISON STATE PARK**  
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**INDIANA DEPT. OF NATURAL RESOURCES**  
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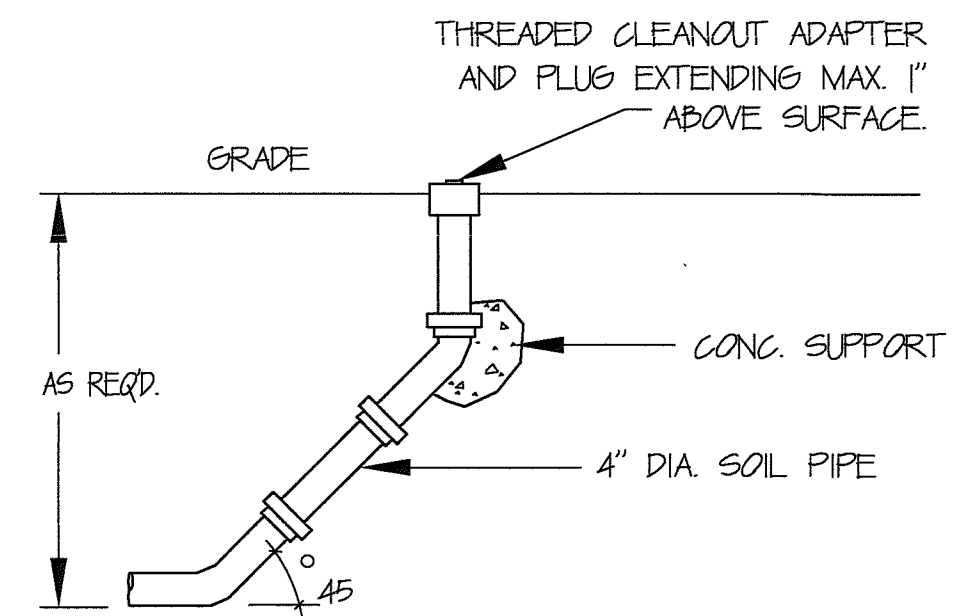
STATE OF INDIANA  
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Revisions:

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Drawing Number:	P-1
Sheet:	6 of 9

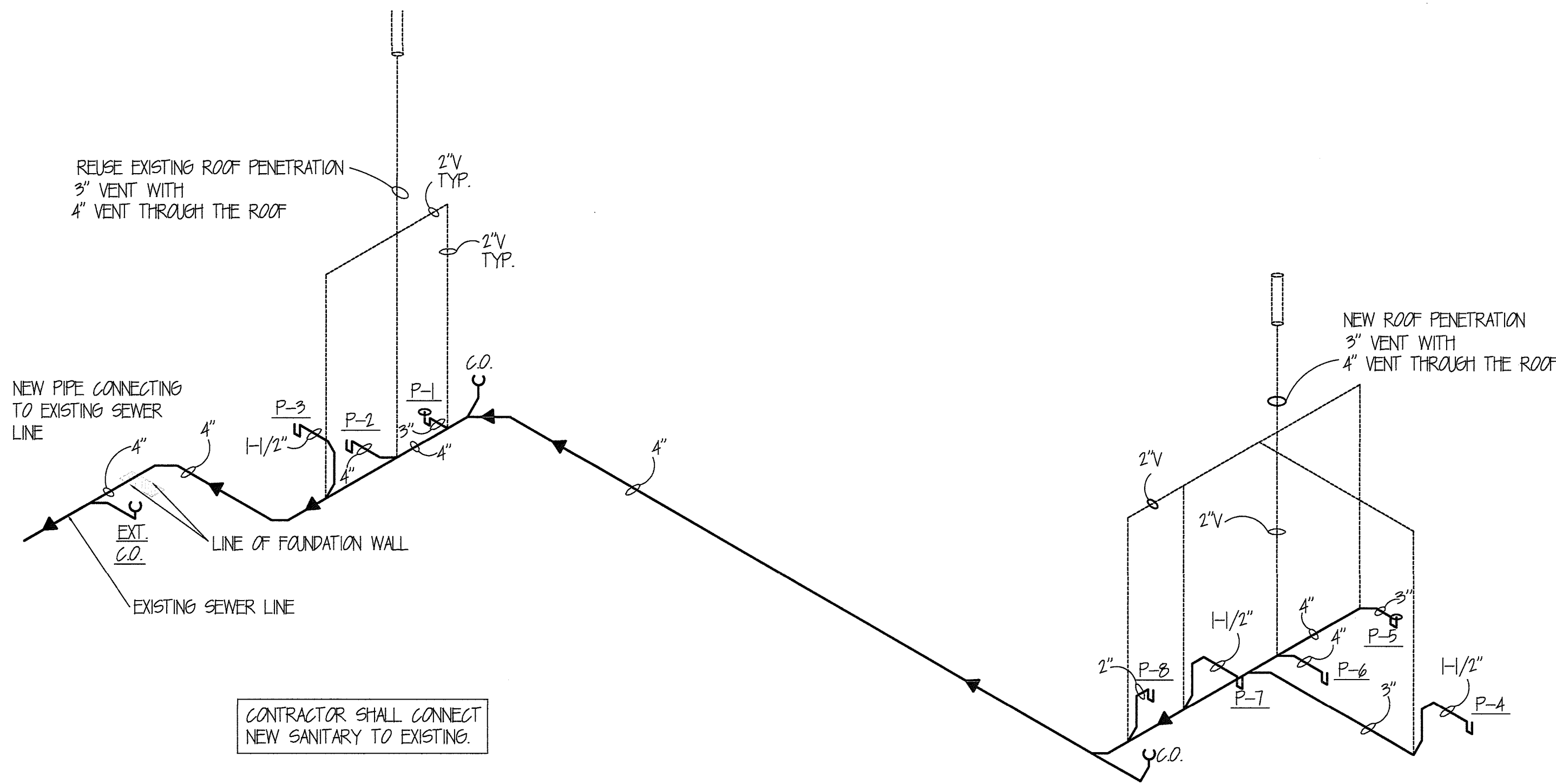


DETAIL 5 N.T.S. 5 P-2



EXTERIOR CLEAN-OUT 4 N.T.S. 4 P-2

PLUMBING - SANITARY SEWER PLAN 1 N.T.S. 1 P-2

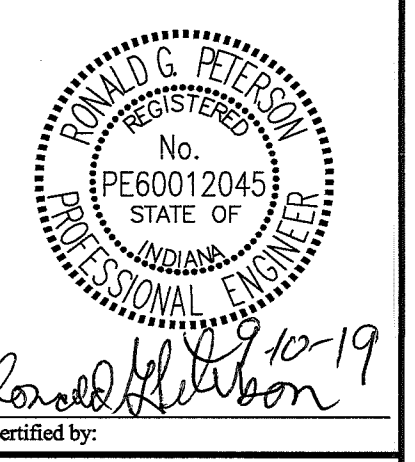


PLUMBING - SANITARY SEWER ISO 2 N.T.S. 2 P-2

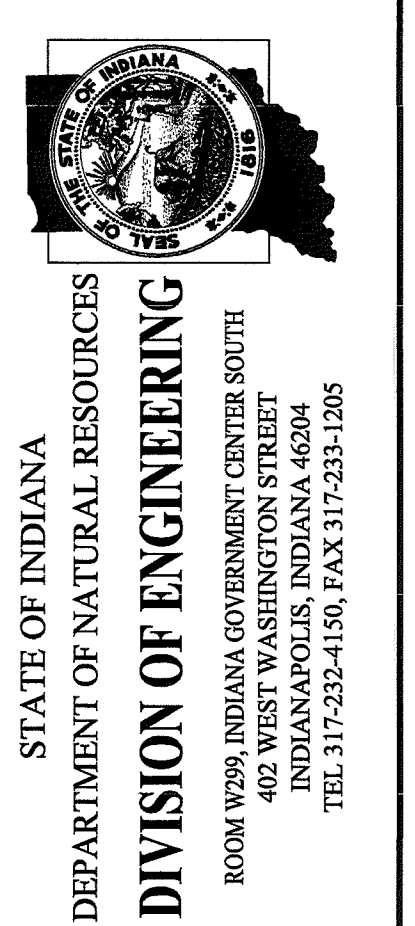
PLUMBING FIXTURE SCHEDULE									
MARK	VENDOR / MOD. NO.	DESCRIPTION	H.W.	C.W.	TRAP	WASTE	VENT	SCOPE OF WORK	NOTES
P-1	MENARDS / MOD. # V09188-001-001	MAX <sup>®</sup> TS-2040 60" x 31-1/2" Tub-Shower with Right Drain	1/2"	1/2"		H-1/2"	H-1/2"	BASE BD	1, 5
P-2	MENARDS / MOD. # 799A051010	WATER CLOSET / AMERICAN STANDARD TITAN 2PCS. ELONGATED, WHITE	-	1/2"	INTEGRAL	4"	2"	BASE BD	
P-3	MENARDS / VANITY ENSEMBLE	BATHROOM SINK INTEGRAL WITH COUNTERTOP, SEE SPECS SHEET 6-2	1/2"	1/2"	H-1/4"	H-1/2"	H-1/2"	BASE BD	2
P-4	MENARDS / TUXANY MOD. # ST9911D1	OFFSET STAINLESS STEEL KITCHEN SINK WITH FAUCET & SPRAY	1/2"	1/2"		H-1/2"	H-1/2"	BASE BD	3
P-5	MENARDS / MOD. # V09188-001-001	MAX <sup>®</sup> TS-2040 60" x 31-1/2" Tub-Shower with Left Drain	1/2"	1/2"		H-1/2"	H-1/2"	ALTERNATE #4	1, 5
P-6	MENARDS / MOD. # 799A051010	WATER CLOSET / AMERICAN STANDARD TITAN 2PCS. ELONGATED, WHITE	-	1/2"	INTEGRAL	4"	2"	ALTERNATE #4	
P-7	MENARDS / VANITY ENSEMBLE	BATHROOM SINK INTEGRAL WITH COUNTERTOP, SEE SPECS SHEET 6-2	1/2"	1/2"	H-1/4"	H-1/2"	H-1/2"	ALTERNATE #4	2
P-8	MENARDS / MOD. # 28543	Oatey Quadro Center Drain Washing Machine Outlet Box	1/2"	1/2"				BASE BD	7
P-9	EASTMAN / MOD. # 60012	EXPANSION TANK FOR GAS WATER HEATER	1/2"					BASE BD	
WH-1	Lochinvar/MOD. # UTND40 40	Ultra Low NOx Residential Gas Water Heater	3/4"	3/4"				BASE BD	4
FP/HD-1	WOODFORD / MOD. #15	EXTERIOR / FREEZE PROOF HOSE BIBB	-	1/2"				BASE BD	

- NOTES:
1. MENARDS: Tuscany Marianna One-Handle Tub/Shower Faucet in Brushed Nickel; MODEL # 1125 BN
  2. MENARDS: MCZEN HILLIARD 2H LAVATORY FAUCET, MODEL # 84837ERN
  3. MENARDS: KITCHEN SINK FAUCET, DELTA CLASSIC IH KIT W/SP SS, MODEL # 400-SS-DST
  4. PROVIDE DRAFT HOOD, VENT PIPE, CONNECTIONS, DISCHARGE PIPE, METAL DRAIN PAN, GAS CONNECTIONS AND REQUIRED ACCESSORIES
  5. 1-Piece Unit, COLOR: WHITE
  6. PROVIDE BRASS COVER PLATES
  7. PROVIDE BRASS WATER HAMMER BALL VALVES

PLUMBING FIXTURE SCHEDULE 3 P-2

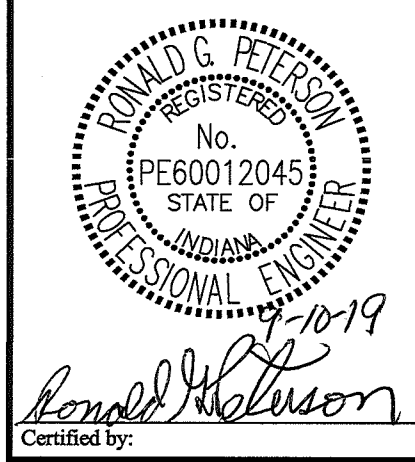


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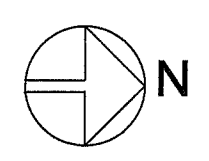
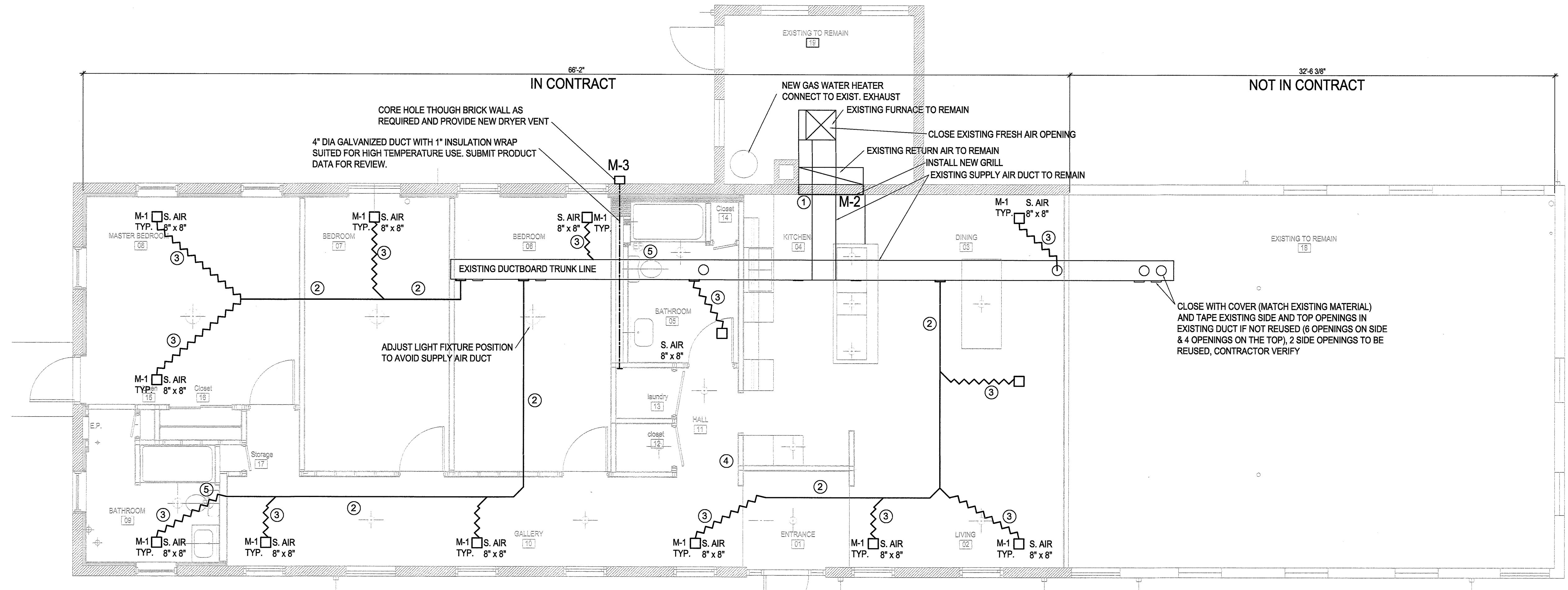


Revisions:

Project Number: ENG1803727638  
Requisition Number: 105143  
Designer: R. P. Drawing Date: 09-05-2019  
Drawer: B.D. Drawing Scale: AS NOTED  
DNR Approval:  
Client Approval:  
File Number: 37-46  
Drawing Number: P-2  
Sheet: 7 of 9



Certified by:  
Randall G. Peterson



**MECHANICAL / HVAC PLAN**  
BASE BID

1/4" = 1'-0" 1  
M-1

**LEGEND:**

- ② — 8" INSULATED (R-6) ROUND DUCTWORK, TYP.
- ③ — INSULATED FLEX DUCT 8" DIAMETER (8 LF MAXIMUM)
- EXISTING DUCTS

**NOTES:**

ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED (R-6)

**PLAN NOTES:**

- ① INSTALL NEW GRILL MATCHING EXISTING IN DIMENSIONS
- ② CONTRACTOR SHALL PROVIDE 8" INSULATED (R-6) ROUND DUCTWORK, TYP.
- ③ INSULATED FLEX DUCT 8" DIAMETER (8 LF MAXIMUM)
- ④ THERMOSTAT SHALL BE HONEYWELL TH5110D-1022 OR EQUAL, INCLUDE BATTERY.
- ⑤ REFERENCE ELECTRICAL PLAN FOR EXHAUST FANS

MECHANICAL FIXTURE SCHEDULE			
MARK	VENDOR / MOD. NO.	DESCRIPTION	NOTES
M-1	TITUS / MOD.# OMNI-AA	SUPPLY AIR DIFFUSER 12"x12"	1, 2, 3
M-2	TITUS / MOD.# 350FS	RETURN AIR GRILLE APPROX. 10" X 48", TYPE 1 BORDER, TYPE A FASTENING, VERIFY SIZE	3
M-3	Dundas - Jafine MODEL # BLH4WZW	ProVent 3" White Louvered Exhaust Hood	

**NOTES:**

1. PROVIDE MODEL D-100 DAMPER.
2. GYPSUM BOARD CEILING MOUNT
3. COORDINATE WITH EXISTING RA DUCTWORK

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STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF ENGINEERING**  
ROOM W209, INDIANA GOVERNMENT CENTER SOUTH  
400 WEST WASHINGTON STREET  
INDIANAPOLIS, INDIANA 46204  
TEL: 317-232-4150, FAX: 317-233-1205

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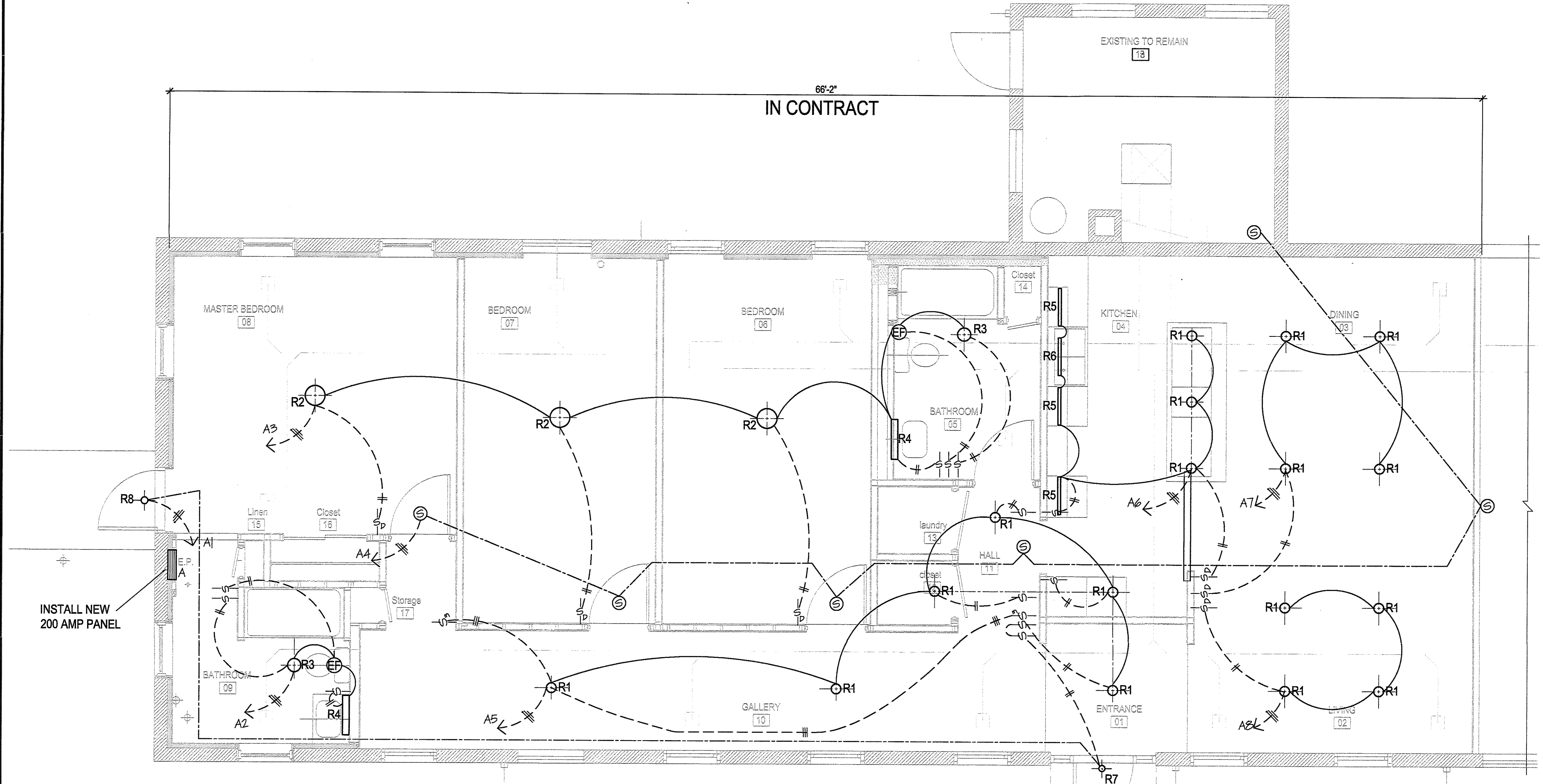
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Drawing Number:  
**M-1**

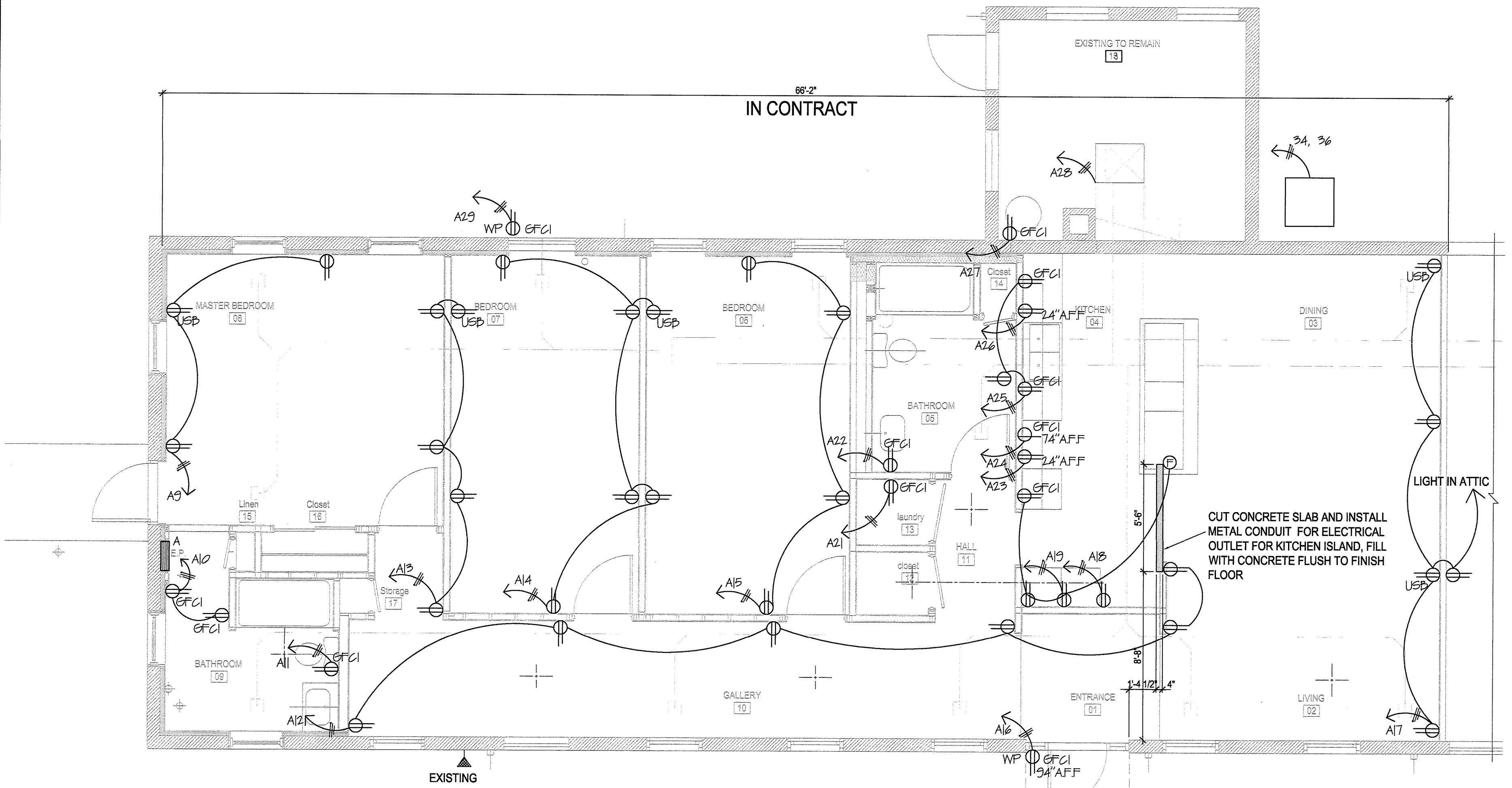
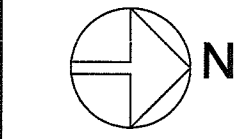
Sheet: **8** of **9**





**ELECTRICAL LIGHTING PLAN**  
BASE BID

1/4" = 1'-0" 1  
E-1



**ELECTRICAL RECEPTACLE PLAN**  
BASE BID

1/4" = 1'-0" 2  
E-1

NEW 200 AMP MAIN  
2P-200 MAIN BRKR.

LIGHTS: EXTERIOR	1	P-20	P-20	1	LIGHTS / EF- MASTER BATHRM
LIGHTS: EF- BEDRMS, BATHROOM	2	P-20	P-20	4	SMOKE DETECTORS
LIGHTS: GALLERY, ENTRANCE, CL	5	P-20	P-20	8	LIGHTS: KITCHEN
LIGHTS: DINING	7	P-20	P-20	8	LIGHTS: LIVING
RECPTS: M. BEDROOM	9	P-20	P-20	10	RECPTS: M. BATHRM
RECPTS: GFCI M. BATHRM VANITY	11	P-20	P-20	12	RECPTS: GALLERY, LIVING
RECPTS: BEDROOM 07, GALLERY	15	P-20	P-20	14	RECPTS: BEDROOM 07
RECPTS: BEDROOM 06	17	P-20	P-20	16	RECPTS: ENTRANCE EXT. 84" A.F.F.
RECPTS: DINING, LIVING	17	P-20	P-20	18	REFRIGERATOR
RECPTS: GFCI KITCHEN	19	P-20	P-20	20	SPARE
RECPTS: GFCI LAUNDRY	21	P-20	P-20	22	RECPTS: GFCI VANITY BATHROOM
RECPTS: GAS STOVE 24" A.F.F.	23	P-20	P-20	24	RECPTS: GFCI MICRO / EX 74" A.F.F.
RECPTS: GFCI KITCHEN, BATHRM 06	25	P-20	P-20	26	RECPTS: DISHWASHER 24" A.F.F.
RECPTS: GFCI MECHANICAL RM	27	P-20	P-20	28	FURNACE BLOWER MOTOR
RECPTS: GFCI EXTERIOR	29	P-20	P-20	30	
	31	P-20	P-20	32	AC CONDENSER
	33	P-20	P-20	34	
	35	P-20	P-20	36	
	37	P-20	P-20	38	
	39	P-20	P-20	40	

**NEW ELECTRICAL PANEL-"A"**

- SCALE: NTS.  
LOCATED ADJACENT TO INCOMING ELECTRICAL SERVICES
- MINIMIZE PANEL DEPTH, ADD STD WALL IN FRONT (SEE A-1) FOR FLUSH INSTALLATION OF ELECTRICAL PANEL.
  - PROVIDE NEW COPPER FEEDERS AND BRANCH CIRCUITS IN SIZES INDICATED AND REQUIRED - MINIMUM 12 AWG COPPER.
  - PROVIDE NEW BREAKERS AS REQUIRED.
  - PROVIDE NEW CIRCUIT PANEL LABELING.
  - ALL DATA AND COMMUNICATION WORK BY OWNER OR OTHERS GOVERNATIVE AS REQUIRED.

**ELECTRICAL SYMBOLS**

MARK	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (1) AND USB (1)
	DUPLEX RECEPTACLE (GROUND FAULT CIRCUIT INTERRUPTER)
	DUPLEX RECEPTACLE - WEATHERPROOF (GROUND FAULT CIRCUIT INTERRUPTER)
	COMPUTER OUTLET WITH CONDUIT AND PULL STRING / NOT IN CONTRACT
	COMBINATION DATA/TELEPHONE OUTLET SERVICE ENTRANCE
	SINGLE POLE SWITCH
	SINGLE POLE SWITCH / OCCUPANCY SENSOR
	SINGLE POLE SWITCH / DIMMER
	THREE - WAY SWITCH
	LED LIGHT FIXTURES, SEE FIXTURE SCHEDULE
	LED LIGHT FIXTURE ABOVE MEDICINE CABINET
	LED LIGHT FIXTURE UNDER KITCHEN WALL CABINET
	SWITCH LEG WIRING FOR SINGLE POLE SWITCH
	SWITCH LEG WIRING FOR THREE POLE SWITCH
	FIXTURE WIRING - THE SAME CIRCUIT
	BREAKER WIRING TO PANEL: LONG DASH WITH DOT = GROUNDING CONDUCTOR (GREEN) LONG DASH = NEUTRAL CONDUCTOR (WHITE) SHORT DASH = PHASE CONDUCTOR (BLACK, RED, BLUE) NUMBER = WIRE SIZE IF OTHER THAN #12 AWG FOR ALL # CONDUCTORS IN THE SAME CONDUIT UNLESS OTHERWISE NOTED.
	ELECTRICAL PANEL
	LED EXTERIOR LIGHT FIXTURE
	FLOOR MOUNTED RECEPTACLE WITH BRASS COVER PLATE & SCREW CAPS (RECESS FLUSH WITH FINISH FLOOR)
	JUNCTION BOX AT EACH RECEPTACLE (PROVIDE EVEN WHEN NOT SHOWN)
	SMOKE ALARM, HARDWIRED TO 120V SERVICE WITH BATTERY (10 YR.) BACKUP
	EXHAUST FAN

**ELECTRICAL NOTE:**

- ALL WORK UNDER THIS SECTION SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF LICENSED ELECTRICIAN.
- CEILING HEIGHT: 7'-9 3/8" (VERIFY).
- ALL ELECTRICAL RECEPTACLES (BOTTOM OF BOX) SHALL BE INSTALLED 24" ABOVE FINISH FLOOR, UNLESS OTHERWISE NOTED.
- ELECTRICAL RECEPTACLES ABOVE COUNTERTOP IN THE KITCHEN SHALL BE INSTALLED WITH FACEPLATE AT THE TOP OF BACK-SPLASH (40" A.F.F. VERIFY WITH COUNTERTOP MANUFACTURER).

**ELECTRICAL FIXTURE SCHEDULE**

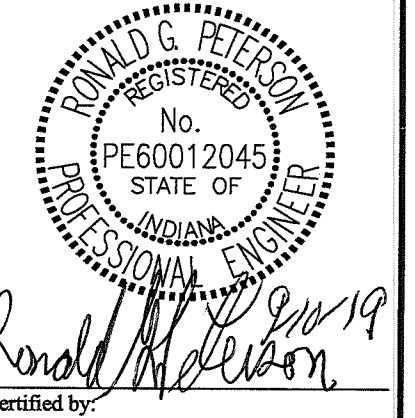
MARK	MANUFACTURER / CATALOG NUMBER	LAMPS	SIZE	MOUNTING	DESCRIPTION	NOTES
R1	ESL/SPECTRUM; CATALOG # 12NCDLR6DIM935/277V/EXT	INTERGRATED LED 12W, 920 LUMENS	6" DIA.	CEILING / RECESSED THIN FIT	IC-RATED, 6-INCH ROUND, DOWNLIGHT, WHITE TRIM	1,2,5,6,7
R2	PATRIOT LIGHTING; MODEL # LF1129WH116LF0T MENARDS SKU: 351-0033	INTERGRATED LED 24.2W, 2017 LUMENS	16" DIA x 3-3/4" H	CEILING / SURFACE	WHITE FINISH	1,2,5,6,7
R3	PATRIOT LIGHTING; MODEL # MEN-HDSF77347	2-LIGHT, LED, E26 MEDIUM BASE, A19	12" DIA x 6" H	CEILING / SURFACE	DAMP-RATED, POLISHED CHROME, FLUSHMOUNT	1,2,5,6,7
R4	PATRIOT LIGHTING; WESTCHESTER; MODEL # SL7413-4 MENARDS SKU: 3529151	3 BULBS; Full Electric ST19-VG-LED, MENARDS SKU: 3538309	18"W x 4-1/4"H x 2"D	WALL / SURFACE	DAMP-RATED, CHROME, VANITY LIGHT	1, 2, 5
R5	PATRIOT LIGHTING; MODEL # VTNU18WH MENARDS SKU: 3460825	INTEGRATED LED, 9W, 480 LUMENS	18"L x 4.5"W x 1.25"D	SURFACE MOUNT, UNDER CABINET	UNDER CABINET STRIP LIGHT	1, 2, 5, 12
R6	PATRIOT LIGHTING; MODEL # VTNU24WH MENARDS SKU: 3460826	INTEGRATED LED, 9W, 440 LUMENS	24"L x 4.5"W x 1.25"D	SURFACE MOUNT, UNDER CABINET	UNDER CABINET STRIP LIGHT	1, 2, 5, 12
R7	EcologyLED; MODEL # OL-SC-WLF-1DW	INTEGRATED LED, 70W, 4000K 6840 LUMENS	47.4" L x 4.1" W x 1.28" H	CEILING / SURFACE	ALUMINUM FRAME, POLYCARBONATE COVER, IP65 RATING, OUTDOOR LIGHT	8
R8	PATRIOT LIGHTING; MODEL # M-G-D0055-V MENARDS SKU: 3569281	INTEGRATED LED, 5500 LUMENS	11" L x 9.5" W x 4.75" H	FACE OF BRICK	DUSK TO DAWN OUTDOOR SECURITY LIGHT	1, 2, 5
EF	NuTone; MODEL # AEN110L, InVent SERIES FAN/LIGHTS MENARDS SKU: 3569281	11W, 800 LUMENS		CEILING / RECESSED	I.C. RATED, CONNECT TO GFCI IF REQUIRED	3, 4
S	Kidde; MODEL # i12010SCO,		5.5" DIA x 1.75" D	CEILING	SMOKE & CO ALARM WITH 10 YEAR BATTERY	10, 11

**GENERAL FIXTURE AND SCHEDULE NOTES:**

- ALL FIXTURES SHALL BE 120 VOLTS
- FIXTURES AND FANS SHALL BE INSTALLED WITH LED BULBS / BATTERIES / ACCESSORIES
- VENT TO OUTSIDE BETWEEN JOIST THROUGH ROOF (NUTONE MOD. # RUK-1)
- PROVIDE BACK DRAFT DAMPER
- ALL LIGHTS SHALL BE INSTALLED WITH INSULATION TO MEET ALL APPLICABLE CODES
- RECESSED FIXTURES SHALL BE IC-RATED TO ACCOMMODATE ATTIC INSULATION CONDITIONS
- COORDINATE FIXTURE LOCATIONS WITH DUCTWORK AND ATTIC ACCESS HATCH
- PROVIDE BLOCKING AS REQUIRED SURFACE MOUNT TO EAVE BOARD TRIM.
- AC WIRE-IN COMBINATION SMOKE & CARBON MONOXIDE ALARM WITH 10 YR. BATTERY BACKUP
- INCORPORATE TEMPORARY SILENCING FIXTURE ON UNITS WITHIN 20' OF COOKING APPLIANCE
- HARD WIRE ALL FIXTURES, NO PLUGS. PROVIDE SPECIFIED FIXTURES OR EQUAL.

**GENERAL NOTES:**

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SPECIFIED PRODUCT OR EQUAL AS APPROVED BY ARCHITECT TEN (10) BUSINESS DAYS PRIOR TO THE BID DUE DATE. REFERENCE DRAWINGS AND SPECIFICATIONS FOR MODEL #s, SKU #s, WHERE LISTED, MAY BE USED TO SEARCH FOR ADDITIONAL PRODUCT INFORMATION AT [www.menards.com](http://www.menards.com)



Certified by:  
*Ronald G. Peterson*  
9/20/19

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