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**PROJECT DESCRIPTION**

In the context of three apartment buildings of Level 1 and Level 2 work per MRCEB.

**LOCATION MAP**

**ENLARGED LOCATION MAP**

**ARCHITECT**

**MEP ENGINEER**

**OWNER**

**PROJECT**

**SHEET TITLE**

**COVER SHEET**

**GENERAL NOTES**

**DRAWING #**

**DRAWN BY**

**DRAWN BY**

**FACILITY/CLIENT**

**FACILITY/CLIENT**

**INFORMATION**

**INFORMATION**

**MATERIALS**

**MATERIALS**

**MEASUREMENTS**

**MEASUREMENTS**

**SCHEDULES**

**SCHEDULES**

**SYSTEMS**

**SYSTEMS**

**TESTS**

**TESTS**

**TOLERANCES**

**TOLERANCES**

**UNITS**

**UNITS**

**VOCABULARY**

**VOCABULARY**

**WARRANTIES**

**WARRANTIES**

**WORK**

**WORK**
GENERAL NOTES

ALWAYS WORK IN CONJUNCTION WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. RULES AND REGULATIONS TO ALL REQUIREMENTS.

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ELECTRICAL NOTES

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**OVERALL ROOF PLAN - UNIT 1504**

- Move existing closet doors approximately 2" to accommodate reworked entry to apartments.
- New raised soffit element at entry, see details sheet A4.2.
- New flat solar panels - 35@380W - 13.3 kW.
- New mechanicals, mechanical closets reconfigured, chimneys removed, chimney openings at floors and roof to be framed flush with existing floor roof structure.
- New roofing - new shingles, underlayment, ice shield, flashings on existing sheathing/structure. Repair as necessary. New fascia trim, gutters & downsputs, existing soffits to remain.
- New solar system installed on roof.
- New insulation - blown-in (not removing existing drywall).
- New entry doors, frames & sidelites in stairwells (upper and lower levels).
- New finishes, substrate, patch & repair throughout.
- New windows, some new relocated and enlarged.
- New light fixtures on existing rough-ins. Some new relocated and enlarged.

**SCOPE NOTES - UNIT 1504**

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**OVERALL U.L. REWORK PLAN - UNIT 1504**

**OVERALL L.L. REWORK PLAN - UNIT 1504**
REWORK FLOOR PLAN - 1506 UPPER LEVEL

1. EXISTING WALL TO REMAIN
2. NEW TOILET, ROUGH-IN, DRAIN TO BE REMOVED
3. EXISTING WINDOW TO BE REMOVED
4. EXISTING DOOR+ FRAME TO BE REMOVED
5. EXISTING CABINETRY+ COUNTERTOP TO BE REMOVED
6. EXISTING LIGHT FIXTURES TO BE REMOVED- CONFIRM EXTENT OF REMOVAL OF ABANDONED WIRING/ BOXES ETC AND TO BE REMOVED- CONFIRM EXTENT OF REMOVAL
7. EXISTING LIGHT FIXTURES TO BE REMOVED
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EXISTING NORTH ELEVATION- 1504

EXISTING SOUTH ELEVATION- 1504

EXISTING WEST ELEVATION- 1504

EXISTING EAST ELEVATION- 1504

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EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED - NEW SIMILAR TO EXISTING/ ORIGINAL
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NEW RAISED ROOF DETAIL AT UPPER ENTRANCE - SEE SHEET A4.2
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EXISTING ROOF STRUCTURE TO REMAIN - NEW SHINGLES, UNDERLAYMENT
EXISTING CONCRETE STOOP, STEPS, RAILINGS TO REMAIN
EXISTING WINDOWS TO MATCH EXISTING WINDOWS AT FIRST FLOOR, SMALLER AT SECOND FLOOR
EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE
EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED - NEW SIMILAR TO EXISTING/ ORIGINAL
EXISTING BRICK FACING TO REMAIN - TYP
EXISTING GRADES TO REMAIN - TYP
EXISTING FOOTINGS TO REMAIN - TYP
EXISTING ROOF STRUCTURE TO REMAIN - NEW SHINGLES, UNDERLAYMENT
EXISTING CONCRETE STOOP, STEPS, RAILINGS TO REMAIN
NEW RAISED ROOF DETAIL AT UPPER ENTRANCE - SEE SHEET A4.2
EXISTING BRICK FACING TO REMAIN - TYP

EXISTING ENTRY DOOR ASSEMBLIES TO BE REMOVED

EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE

EXISTING BEDROOM WINDOWS TO BE REMOVED, NEW TO BE APPROX 12" TALLER TO PROVIDE EGRESS SILL HEIGHT COMPLIANCE

EXISTING PREFIN VERTICAL-GROOVE SIDING TO REMAIN

EXISTING CHIMNEYS REMOVED - COORDINATE WITH MECHANICAL REWORK

EXISTING ROOF STRUCTURE TO REMAIN - SHINGLES, UNDERLAYMENT TO BE REMOVED

EXISTING GRADES TO REMAIN - TYP

EXISTING FOOTINGS TO REMAIN - TYP

EXISTING ROOF OVERHANG TO BE REMOVED FOR RAISED ELEMENT - SEE DETAILS
EXISTING ROOF STRUCTURE TO REMAIN - SHINGLES, UNDERLAYMENT, FASCIA TO BE REMOVED.

EXISTING BRICK FACING TO REMAIN - TYP.

EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED - NEW SIMILAR TO EXISTING/ ORIGINAL.

EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE.

EXISTING PREFIN VERTICAL-GROOVE SIDING TO REMAIN.

EXISTING PAINTED VERTICAL-GROOVE SIDING TO REMAIN.

EXISTING GRADES TO REMAIN - TYP.

EXISTING FOOTINGS TO REMAIN - TYP.

EXISTING ROOF STRUCTURE TO REMAIN - SHINGLES, UNDERLAYMENT, FASCIA TO BE REMOVED.

EXISTING BRICK WALL BEHIND TO BE CUT DOWN TO NEW OPENING SIZE - WINDOW SILL TO ALIGN WITH EXISTING LIVING ROOM SILLS.

NOTE: EXISTING STONE SILLS TO BE CAREFULLY REMOVED FOR RE-INSTALLATION IN NEW LOWERED ROUGH OPENINGS - TYPICAL.

EXISTING/DEMO NORTH ELEVATION- 1508

EXISTING/DEMO SOUTH ELEVATION- 1508

EXISTING/DEMO WEST ELEVATION- 1508

EXISTING/DEMO EAST ELEVATION- 1508

EXISTING/DEMO FIRST FLOOR (EXIST)

EXISTING/DEMO SECOND FLOOR (EXIST)

EXISTING/DEMO FIRST FLOOR (EXIST)

EXISTING/DEMO EXISTING ROOF STRUCTURE TO REMAIN - SHINGLES, UNDERLAYMENT, FASCIA TO BE REMOVED.

EXISTING/DEMO EXISTING BRICK FACING TO REMAIN - TYP.

EXISTING/DEMO EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED - NEW SIMILAR TO EXISTING/ ORIGINAL.

EXISTING/DEMO EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE.

EXISTING/DEMO EXISTING PREFIN VERTICAL-GROOVE SIDING TO REMAIN.

EXISTING/DEMO EXISTING PAINTED VERTICAL-GROOVE SIDING TO REMAIN.
EXISTING WINDOWS TO BE REPLACED WITH SAME SIZE.
NEW WINDOWS TO MATCH EXISTING AS CLOSE AS POSSIBLE.
EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED. NEW SIMILAR TO EXISTING/ ORIGINAL.
EXISTING ROOF STRUCTURE, SHEATHING, ROOFING TO REMAIN. 
NEW RAISED ROOF DETAIL AT UPPER ENTRANCE. SEE SHEET A4.2.
EXISTING BRICK FACING TO REMAIN. TYP.
EXISTING GRADES TO REMAIN- TYP.
EXISTING FOOTINGS TO REMAIN- TYP.
EXISTING PREFIN VERTICAL SIDING TO REMAIN- PAINT- TYP.
EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE.
EXISTING ENTRY DOOR ASSEMBLIES TO BE REPLACED- NEW SIMILAR TO EXISTING/ ORIGINAL.
EXISTING ROOF STRUCTURE, SHEATHING, ROOFING TO REMAIN. 
NEW RAISED ROOF DETAIL AT UPPER ENTRANCE. SEE SHEET A4.2.
EXISTING BRICK FACING TO REMAIN. TYP.
EXISTING GRADES TO REMAIN- TYP.
EXISTING FOOTINGS TO REMAIN- TYP.
EXISTING WINDOWS TO BE REMOVED, REPLACED WITH SAME SIZE.
GENERAL NOTES:
BASIS OF DESIGN FOR WINDOWS IS: JELD-WEN DF HYBRID VINYL SERIES (SIZING)
IF AN ALTERNATE SUPPLIER/LINE ARE USED, EXISTING ROUGH OPENING SIZES MUST BE VERIFIED AGAINST AVAILABLE TWO-AND-THREE SECTION UNITS TO FIT - OPENINGS WILL *NOT* BE MODIFIED BEYOND LOWERED SILLS PROPOSED FOR BEDROOM EGRESS COMPLIANCE
*SMALLER OVERALL UNIT CAN BE MADE TO WORK WITH BLOCKING/TRIM, LARGER CANNOT*
UNITS ARE SIZED SO OPERABLE ENDS OF "A" UNITS ARE NARROWEST POSSIBLE EGRESS-COMPLIANT UNITS- "B" AND "C" FOLLOW WIDTHS, DIFFERENT HEIGHTS-
SHOULD ALTERNATE SUPPLIER/LINE BE USED, FOLLOW THIS BASIS OF DESIGN
FIELD VERIFY ALL ROUGH OPENING SIZES TO SHOWN.
BUILDING HIM SUPPLIED/ORDERED DOORS TO SHOWN.
BE SUREST THAT HANDS ARE CORRECTLY ORIENTED TO ENSURE NEW DOORS INSTALLED ON INTERIOR, FRONT-FACING SIDE OUTSIDE.
COORDINATE RETAIN CYLINDERS WITH OWNER.

KITCHEN WINDOWS
STAIRWELL UPPER WINDOWS
1504 SOUTH STAIRWELL ASSEMBLY

LIVING WINDOWS
BEDROOM WINDOWS
EGRESS-COMPLIANT SIDES

SAFETY GLASS AT STAIR LANDINGS
20 MIN DOOR TO SHARED STAIR/ENTRY HALL TYPICAL

SAFETY GLASS AT STAIR LANDINGS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS

BUILDING ENTRY DOORS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS

APARTMENT ENTRY DOORS
BUILDING ENTRY DOORS
NEW PREFIN 1X TRIM
EXISTING STEEL LINTEL ACROSS FACE BRICK OPENING TO REMAIN-
MAINTAIN EXISTING WEEPS BEHIND NEW TRIM - F.V. EXACT HEIGHT, CONDITION
PREFIN VENTED SOFFIT UNDER 2X4 CEILING JOISTS
NEW LOW-PROFILE OR RECESSED LIGHT - CENTERED HEADER TO FRAME INTO EXISTING WALL - CONFIRM EXACT WALL DETAIL AT CONNECTION - DOUBLE STUD BENEATH - REWORK TO BE DONE FROM INTERIOR TO MINIMIZE BRICK REWORK - F.V.
EXISTING WALL FRAMING, ROUGH OPENING, MASON, ETC TO REMAIN, POST 'N-avatar AS MODIFIED
20K PSI/3000# CONCRETE ADHESIVE USED FOR CONCRETE TO CONCRETE JOINTS
NEW ENTRY DOOR, SIDELITE, FRAME
EXISTING BRICK FACING TO REMAIN - TYPICAL
HEADER TO FRAME INTO EXISTING WALL - CONFIRM EXACT WALL DETAIL AT CONNECTION - DOUBLE STUD BENEATH - REWORK TO BE DONE FROM INTERIOR TO MINIMIZE BRICK REWORK - F.V.
2X6 HIP FRAMING
NEW SHINGLES ON NEW UNDERLAYMENT ON NEW 7/16" OSB SHEATHING WITH ICE+ WATER SHIELD AT ALL VALLEYS, EAVES, RIDGES + TRANSITIONS, CHANGES OF SLOPE
FLASH ALL VERTICAL SURFACES INTO NEW/EXISTING ROOFING AT JUNCTURES
NEW 2X6 RAFTERS - OVERHANG TAILS, PROVIDE HURRICANE-TIES AT TOP PLATE BEARING, HANGERS AT RIDGE
NEW PREFIN 1X SIDE, BOTTOM TRIM ON NEW DOUBLE 2X6 HEADER
NEW PREFIN 1X "CAP" AT TOP OF NEW POSTS
NEW PREFIN 1X FACE ALL FOUR SIDES OF NEW TREATED 4X4 POSTS - ONE 2X6 OF DOUBLE BEAM NOTCHES IN AT TOP JUNCTURE
NEW ENTRY DOOR, SIDELITE, FRAME
EXISTING BRICK FACING TO REMAIN - TYPICAL
HEADER TO FRAME INTO EXISTING WALL - CONFIRM EXACT WALL DETAIL AT CONNECTION - DOUBLE STUD BENEATH - REWORK TO BE DONE FROM INTERIOR TO MINIMIZE BRICK REWORK - F.V.
NEW PREFIN 1X TRIM
EXISTING STEEL LINTEL ACROSS FACE BRICK OPENING TO REMAIN-
MAINTAIN EXISTING WEEPS BEHIND NEW TRIM - F.V. EXACT HEIGHT, CONDITION
PREFIN VENTED SOFFIT UNDER 2X4 CEILING JOISTS
NEW ENTRY DOOR, SIDELITE, FRAME
EXISTING BRICK FACING TO REMAIN - TYPICAL
HEADER TO FRAME INTO EXISTING WALL - CONFIRM EXACT WALL DETAIL AT CONNECTION - DOUBLE STUD BENEATH - REWORK TO BE DONE FROM INTERIOR TO MINIMIZE BRICK REWORK - F.V.
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NEW PREFIN 1X TRIM
EXISTING STEEL LINTEL ACROSS FACE BRICK OPENING TO REMAIN-
MAINTAIN EXISTING WEEPS BEHIND NEW TRIM - F.V. EXACT HEIGHT, CONDITION
PREFIN VENTED SOFFIT UNDER 2X4 CEILING JOISTS
NEW ENTRY DOOR, SIDELITE, FRAME
EXISTING BRICK FACING TO REMAIN - TYPICAL
HEADER TO FRAME INTO EXISTING WALL - CONFIRM EXACT WALL DETAIL AT CONNECTION - DOUBLE STUD BENEATH - REWORK TO BE DONE FROM INTERIOR TO MINIMIZE BRICK REWORK - F.V.
PLUMBING SYMBOL LIST

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<tr>
<th>SYMBOL</th>
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<tr>
<td>HWC</td>
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<td>BFP</td>
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<td>CHECK VALVE</td>
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<td>FS</td>
<td>PIPE SERVING FIXTURE ON FLOOR ABOVE</td>
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<td>GPM</td>
<td>PIPE CAP</td>
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<td>FD</td>
<td>WALL CLEANOUT ABOVE FINISHED FLOOR</td>
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PLUMBING ABBREVIATION KEY

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PLUMBING GENERAL NOTES:

These notes apply to all mechanical, electrical, and structural trades, unless noted otherwise. Please refer to the General Notes Section of the Drawings for additional information.

1. The Plumbing Drawings show the locations of fixtures, equipment, and ductwork to allow for the construction of the facilities as shown. Additional information is contained in the Specifications and the Code Requirements.

2. The Plumbing Drawings are intended to show the location of fixtures, equipment, and ductwork, and are not to be used as a basis for bidding. All work shall be performed in accordance with the Specifications and the Code Requirements.

3. The Plumbing Drawings are intended to show the location of fixtures, equipment, and ductwork, and are not to be used as a basis for bidding. All work shall be performed in accordance with the Specifications and the Code Requirements.

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PLUMBING SLOPE REQUIREMENTS:

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PLUMBING COVERSHEET

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PARTIAL UNDERGROUND FLOOR PLAN - DEMOLITION

SCALE: 1/2" = 1'-0" (FOR 24"X36" DRAWING ONLY)

DEMOLITION KEYNOTES:
1. CONTRACTOR TO IMAGE FLOOR TO DETERMINE LOCATION OF EXISTING CAST IRON PIPING.
2. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES WITH EXISTING SANITARY SEWER AND VENTING AFTER DEMOLITION OF THE WALLS AND CEILING, PRIOR TO PLUMBING DEMOLITION AND NEW WORK.
3. DEMOLISH SANITARY PIPING TO FIXTURES AS REQUIRED FOR NEW WORK.

NEW WORK KEYNOTES:
1. INSTALL PIPING AS SHOWN, BACKFILL TRENCHES AND REPAIR CONCRETE AS REQUIRED.
2. CONTRACTOR TO TIE IN NEW FIXTURES TO EXISTING SANITARY PIPING.

GENERAL NOTES:
1. SEE GENERAL NOTES, SPECIFICATIONS, AND ADDITIONAL PROJECT INFORMATION ON GENERAL DRAWINGS.
2. RED HATCHING INDICATES DEMOLITION.
3. NEW WORK SHOWN IN BOLD.
4. DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL SCOPE OF WORK, BUT DO NOT PROVIDE EXACT SCALE OR LOCATIONS. PROPER INSTALLATION OF ALL SYSTEMS, AFTER COORDINATION WITH OTHER TRADES, IS THE CONTRACTORS RESPONSIBILITY.
5. THIS IS A TYPICAL FLOORPLAN - SOME DISCREPANCIES MAY ARISE BETWEEN APARTMENTS AND BUILDINGS, NOTIFY ENGINEER. THIS DOES NOT RELIEVE THE CONTRACTOR TO PROVIDE COMPLETE AND WORKING SYSTEMS. REFER TO BUILDING SCHEMATICS FOR ALL EQUIPMENT LOCATIONS.
6. THERE IS NO PLUMBING SCHEME IN THE LAUNDRY/FORCE VENTS LOCATED IN BUILDING 1506.

PARTIAL UNDERGROUND FLOOR PLAN - NEW WORK

SCALE: 1/2" = 1'-0" (FOR 24"X36" DRAWING ONLY)

ADA UNIT

NON-ADA
GENERAL NOTES:
1. SEE GENERAL NOTES, SPECIFICATIONS, AND ADDITIONAL PROJECT INFORMATION ON GENERAL DRAWINGS.
2. RED HATCHING INDICATES DEMOLITION.
3. NEW WORK SHOWN IN BOLD.
4. DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL SCOPE OF WORK, BUT DO NOT PROVIDE EXACT SCALE. COMPLETION OF ALL SYSTEMS, AFTER COORDINATION WITH OTHER TRADES, IS THE CONTRACTOR'S RESPONSIBILITY. ALL UNDERGROUND AND EXISTING ELEVATIONS AND PIPE SIZES ARE APPROXIMATE.
5. TIE-IN VENT TO ADJACENT EXISTING 3" VTR.
6. THERE IS NO PLUMBING SCOPE IN THE LAUNDRY/OFFICE UNITS LOCATED IN BUILDING 1506.

NEW WORK KEYNOTES:
1. CONTRACTOR TO FIELD ROUTE PIPING FROM DRAIN PAN, AND FURNACE CONDENSATE TO FLOOR DRAIN.
2. INSTALL THERMOSTATIC MIXING VALVE (TMV-01) AT SINKS AND LAVATORIES.
3. INSTALL AIR ADMITTANCE VALVE ON DRAIN FOR KITCHEN SINK.
4. ROUTE PIPING TO WATER CLOSET ON INSIDE OF EXISTING WALL. NO WATER PIPING SHALL BE ROUTED IN EXTERIOR WALL.
5. CONTRACTOR TO FIELD VERIFY EXISTING PIPE SIZES AND NOTIFY ENGINEER DURING DEMOLITION PHASE.
6. PLUMBING CONTRACTOR TO INSTALL AND PIPE EWH AND ELECTRICAL CONTRACTOR TO WIRE NEW EWH.

DEMO/NEW WORK KEYNOTES:
1. CONSTRUCTION TO DISCONNECT NG AND REMOVE EXISTING WATER HEATER.
2. EXISTING NG SUPPLY TO WATER HEATER AND CW MAIN TO SINK
3. TO WATER HEATER AND CW MAIN
4. DEMOLISH EXISTING PLUMBING (SANITARY, COLD WATER SUPPLY, HOT WATER SUPPLY, AND VENTING) BACK TO BRANCH.
5. CONTRACTOR TO FIELD VERIFY EXISTING PIPE SIZES AND NOTIFY ENGINEER DURING DEMOLITION PHASE.
6. CONSTRUCTION TO DISCONNECT NG AND REMOVE EXISTING WATER HEATER.
7. CONSTRUCTION TO DISCONNECT PIPING FROM DRAIN/SANITARY, COLD WATER SUPPLY, AND HOT WATER SUPPLY, AND INSTALL BACK TO BRANCH.
8. CONTRACTOR TO FIELD VERIFY EXISTING PIPE SIZES AND NOTIFY ENGINEER DURING DEMOLITION PHASE.
9. EXISTING NG SUPPLY TO WATER HEATER AND CW MAIN TO SINK
10. TO WATER HEATER AND CW MAIN
11. CONSTRUCTION TO DISCONNECT NG AND REMOVE EXISTING WATER HEATER.

PARTIAL ABOVE FLOOR PLAN - DEMOLITION

PARTIAL ABOVE GROUND FLOOR PLAN - NEW WORK
BASEMENT FLOOR PLAN - DEMOLITION

DEMOLITION KEYNOTES:
1. DEMOLISH EXISTING WATER HEATER, LEAVE EXISTING COLD WATER, AND HOT WATER TO BE RECONNECTED TO NEW EWH. DEMOLISH EXISTING NATURAL GAS LINE BACK TO MAIN AND CAP.
2. DEMOLISH EXISTING FURNACE, LEAVE ALL EXISTING DUCTWORK AND NATURAL GAS SUPPLY TO BE RECONNECTED TO NEW FURNACE.
3. CONTRACTOR TO DEMOLISH EXISTING CHASE.
4. CONTRACTOR TO REMOVE EXISTING DRYERS AND TURN OVER TO OWNER.
5. CONTRACTOR TO LOCATE EXISTING SANITARY PIPING. ONCE LOCATED CONTRACTOR TO SAWCUT FLOORING TO EXPOSE SANITARY PIPING FOR INSTALLATION OF NEW FLOOR DRAIN.
6. REMOVE EXISTING COMBUSTION AIR DUCT AND SEAL EXISTING WALL OPENING.

BASEMENT FLOOR PLAN - NEW WORK

GENERAL NOTES:
1. SEE GENERAL NOTES, SPECIFICATIONS, AND ADDITIONAL PROJECT INFORMATION ON GENERAL DRAWINGS.
2. NEW WORK SHOWN IN BOLD.
3. DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL SCOPE OF WORK, BUT DO NOT PROVIDE EXACT SCALE OR LOCATIONS. PROPER INSTALLATION OF ALL SYSTEMS, AFTER COORDINATION WITH OTHER TRADES, IS THE CONTRACTORS RESPONSIBILITY.
NEW WORK NOTES:
1. ROUTE ALL REFRIGERANT LINES THROUGH ATTIC. CONTRACTOR TO DISCUSS POSSIBLE ROUTING OF PIPING THROUGH FIRST FLOOR CEILING WITH ENGINEER.

GENERAL NOTES:
1. ALL ROOF PENETRATIONS TO BE COORDINATED WITH SOLAR ARRAY.

ROUTE ALL REFRIGERANT LINES THROUGH ATTIC. CONTRACTOR TO DISCUSS POSSIBLE ROUTING OF PIPING THROUGH FIRST FLOOR CEILING WITH ENGINEER.
**ELECTRICAL RENOVATION NOTES:**

1. The above notes are to be used with this drawing. This drawing is not limited to the notes specifically referred to in the notes. There are a total of 91 notes in this drawing.
2. Schlage Lock is a preferred brand for security locksets.
3. See project documents for schedule of work.
4. See schedule of work for mechanical systems.
5. See schedule of work for plumbing systems.
6. See schedule of work for HVAC systems.
7. See schedule of work for fire protection systems.
8. See schedule of work for audio/visual systems.
9. See schedule of work for security systems.
10. See schedule of work for general systems.
11. See schedule of work for electrical systems.
12. See schedule of work for construction.
13. See schedule of work for structural systems.
14. See schedule of work for HVAC systems.
15. See schedule of work for mechanical systems.
16. See schedule of work for plumbing systems.
17. See schedule of work for electrical systems.

**ELECTRICAL INSTALLATION NOTES:**

1. The electrical installation shall be in accordance with the following standards for accessible design, based on the ADA Guidelines for Accessible Design. In addition, the installation shall be in accordance with the National Electrical Code (NEC).
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89. The installation shall be in accordance with the National Electrical Code (NEC).
90. The installation shall be in accordance with the National Electrical Code (NEC).
91. The installation shall be in accordance with the National Electrical Code (NEC).
KEYED NEW WORK NOTES:

1. CONDENSING UNIT LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONFIRM THE EXACT LOCATION ON THE MECHANICAL DRAWINGS.

EXISTING PANEL LOCATIONS PANTELS TO BE DEMOLED: UNIT 1A

SOLAR PANEL BATTERY INVERTER
PVC DISC (200A)
SOLAR BACKUP INTERFACE

2. OVERALL U.L REWORK PLAN - UNIT 1504 - ELECTRICAL

1. OVERALL L.L REWORK PLAN - UNIT 1504 - ELECTRICAL
OVERALL U.L. REWORK PLAN - UNIT 1506 - ELECTRICAL

1. CONDENSING UNIT LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONFIRM THE EXACT LOCATION ON THE MECHANICAL DRAWINGS.

2. HVAC AND WATER HEATER FOR THIS UNIT SHALL BE LOCATED IN THE BASEMENT. SEE BASEMENT PLANS.

OVERALL L.L REWORK PLAN - UNIT 1506 - ELECTRICAL

EXISTING PANEL LOCATIONS. PANELS TO BE DEMOLISHED. REFER TO THE ELECTRICAL RISER.

EXISTING PANEL IN THIS LOCATION SHALL BE REPLACED WITH NEW 100A PANEL IN THE SAME LOCATION. PANEL SHALL BE FED FROM MDP - 1506.
**ELECTRICAL GENERAL NOTES:**

A. DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED WHOLE AS DETAILED IN ELECTRICAL DRAWING NO. 2020-130/10-2 AND SHALL BE CONFIGURED TO MAXIMIZE THE UTILIZATION OF THE DISTRICT PANELS. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

B. LOCATION OF DISTRICT PANELS FOR OFFICE BUILDING SHOWN ON 140-06A SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE OFFICE PANELS.

C. DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

D. ALL PANELS SHALL BE MOUNTED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS APPLICABLE.

E. ALL PANELS SHALL BE MOUNTED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS APPLICABLE.

F. ALL PANELS SHALL BE MOUNTED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS APPLICABLE.

G. ALL PANELS SHALL BE MOUNTED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS APPLICABLE.

H. ALL PANELS SHALL BE MOUNTED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS APPLICABLE.

**ELECTRICAL KEYS:**

1. COORDINATE MEASUREMENTS AND MOUNTING METHOD WITH MECHANICAL ENGINEER. CODE DOES NOT APPLY TO ELECTRICAL OR MECHANICAL MOUNTING METHODS. "AS TO COMPLETE MOUNTING OF ELECTRICAL PANELS TO BE DETAILED IN DRAWING 140-06B" SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

2. PROVIDE MOUNTING WIRING WITH INTERIOR AND EXTERIOR DETAIL TO BE COORDINATED IN THE FIELD.

3. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

4. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

5. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

6. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

7. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

8. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

9. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

10. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

11. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

12. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

13. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.

14. PROVIDE PANEL AWAY DRAWING 140-06B, SHOWN ON DISTRICT PANELS FOR DISTRICT DYNAMICS EQUIPMENT SHALL BE MOUNTED IN THE LOCATION SHOWN ON THE SITE PLAN OR AS DETAILED IN DRAWING 140-06B. DETAILED PANEL AWAY EPC PROJECT SPECIFICATIONS, DRAWING 140-06B, SHALL BE USED AS A GUIDE FOR THE PROPER MOUNTING AND ELECTRICAL INTERCONNECTS OF THE DISTRICT PANELS.
**REWORK LIGHTING FLOOR PLAN - 1506 UPPER LEVEL (ADA)**

- **Electrical General Notes:**
  - A. **Switches and receptacles located over counter or similar obstruction shall be installed a maximum of 46" A.F.F. to the highest usable portion of the counter.** Switches and receptacles located over counter or similar obstruction shall be installed a maximum of 46" A.F.F. to the highest usable portion of the counter.
  - B. **Light switches shall be mounted close to door opening.** Light switches shall be mounted close to door opening.
  - C. **All switchgear except GFCI receptacles shall be installed horizontally.** All switchgear except GFCI receptacles shall be installed horizontally.
  - D. **Provide media outlet (CAT 6) for TV.** Provide media outlet (CAT 6) for TV.
  - E. **Coordinate with architect for specials above the line.** Coordinate with architect for specials above the line.
  - F. **Provide mounted switches for hood light and fan (individually controlled).** Provide mounted switches for hood light and fan (individually controlled).
  - G. **Provide mounted switches for hood light and fan (individually controlled).** Provide mounted switches for hood light and fan (individually controlled).

**Electrical Keyed Notes:**

1. **Coordinate mechanical equipment room location with mechanical contractor.** Coordinate mechanical equipment room location with mechanical contractor.
2. **Provide media outlet (CAT 6) for TV.** Provide media outlet (CAT 6) for TV.
3. **Provide mounted switches for hood light and fan (individually controlled).** Provide mounted switches for hood light and fan (individually controlled).
4. **Provide mounted switches for hood light and fan (individually controlled).** Provide mounted switches for hood light and fan (individually controlled).
5. **Coordinate with architect for specials above the line.** Coordinate with architect for specials above the line.
6. **Provide mounted switches for hood light and fan (individually controlled).** Provide mounted switches for hood light and fan (individually controlled).

**Demolition Plan - 1506 Upper Level (ADA)**

**Rework Power - 1506 Upper Level (ADA)**

**Rework Lighting Floor Plan - 1506 Upper Level (ADA)**

**Rework Power Plan - 1506 Upper Level (ADA)**
1. EXISTING WALL RECEPTACLES SHALL BE EXISTING TO REMAIN. ALL ELECTRICAL ITEMS IN THE BASEMENT LEVEL TO HAVE BRANCH CIRCUITS REWORKED AND EXTENDED TO THE NEW PANEL MDP-1506.

2. NEW LIGHT FIXTURES IN THE BASEMENT SHALL BE CONNECTED TO PANEL MDP. MAINTAIN THE EXISTING ELECTRICAL CIRCUITS AND REWORK AND EXTEND TO THE EXISTING CONTROLS SERVING THIS AREA.
1. **Grounding Detail**

- Grounding Electrode Conductor
- Grounding Electrode Connector
- Grounding Electrode Wires
- Additional Grounding Electrode Wires

2. **Mounting Height Diagram**

- Electrical Outlets
- Light Switches
- Fire Alarm Pull Stations

3. **CATV Outlet Detail**

- CATV Outlet Connector
- Ground-Plate
- CATV Outlet

4. **Kitchen Outlet Layout**

- Kitchen Outlets
- Receptacle Type
- Power Supply from Metal Barrier Block

**NOTES:**
- GFI with Base Standard 24" deep counter
- Two receptacles are allowed to be located on the walls within the hatchted area.
- No switches are allowed to be located on the walls with the hatchted area.
- One receptacle outlet is allowed to be located on the wall for accessibility. Where one wall includes a range, locate the receptacle outlet on the range wall.

**REVISIONS:**
- Electrical outlet in hatchted area of counter must be 12" or wider. receptacle outlets must be installed for this area. insulating outlets shall be installed so that no single outlet is within 36" of any door, window, or large opening.
- One receptacle outlet must be located 36" from the corner of the wall.
- The locations of receptacle outlets shown in this detail are for convenience and may not be altered.
- Insulating outlets must not be located within 18" of a corner.
- Insulating outlets shall be installed at the same height as adjacent telephone or data outlets on the same wall.

**DISCLAIMER:**
- The electrical designer in this drawing, over counter must be a minimum of 36" from the corner of the wall.
- Additional outlets are required to be present in the hatchted area of the countertop.
- The locations of receptacle outlets shown in this detail are for convenience and may not be altered.
- Insulating outlets must not be located within 18" of a corner.
- The locations of receptacle outlets shown in this detail are for convenience and may not be altered.
ELECTRICAL KEY NOTES:
1. DEMOLISH EXISTING SERVICE DISCONNECT.
2. DEMOLISH EXISTING UNIT PANELS AND UTILITY METERS.
3. INDIVIDUAL METERED SERVICES ARE BEING REPLACED WITH ONE METER FOR EACH BUILDING. PROVIDE PANELBOARD AS REQUIRED FOR DISTRIBUTION TO EACH UNIT.
4. PRESERVE EXISTING BRANCH CIRCUITS FROM EACH UNIT AS REQUIRED TO REWORK AND EXTEND TO NEW PANEL THAT WILL BE PROVIDED IN EACH UNIT.
5. COORDINATE SIZE OF EXISTING SERVICE BASED ON LOAD SHEETS PROVIDED. UTILITY TO PROVIDE UPGRADED SERVICE SECONDARY CONDUCTORS AS REQUIRED.
6. PROVIDE NEW 400A SERVICE WITH CORRESPONDING UTILITY METER.
7. PROVIDE NEW LOAD CENTER IN EACH UNIT. REWORK AND EXTEND EXISTING BRANCH CIRCUITS FOR LIGHTING AND RECEPTACLES TO NEW LOAD CENTER. PROVIDE NEW BRANCH CIRCUIT FOR NEW WATER HEATER, AND HVAC AIR HANDLERS AND HEAT PUMPS.
8. PROVIDE 2" EMPTY CONDUIT FROM PANEL MDP - 1504 TO THE ROOF. EXACT LOCATION SHALL BE COORDINATED IN THE FIELD. PROVIDE 100A REVERSE FEED BREAKER IN MDP - 1504 FOR FUTURE SOLAR PROVISIONS.
ELECTRICAL RISER - BUILDING 1506

1. PROVIDE NEW SERVICE WITH CORRESPONDING UTILITY METER
2. PROVIDE NEW BRANCH CIRCUIT FOR NEW WATER HEATER, AND HVAC AIR BRANCH CIRCUITS FOR LIGHTING AND RECEPTABLES TO NEW LOAD CENTER.
3. PROVIDE NEW LOAD CENTER IN EACH UNIT. REWORK AND EXTEND EXISTING.
4. DEMOLISH EXISTING SERVICE DISCONNECT.
5. PROVIDE NEW 600A SERVICE WITH CORRESPONDING UTILITY METER
6. BUILDING. PROVIDE PANELBOARD AS REQUIRED FOR DISTRIBUTION TO EACH METERED SERVICES ARE BEING REPLACED WITH ONE METER FOR EACH UNIT.
7. DEMOLISH EXISTING UNIT PANELS AND UTILITY METERS.
8. COMPARE WITH UTILITY FOR REWORKING THE EXISTING SERVICE AS REQUIRED. COORDINATE SIZE OF EXISTING SERVICE BASED ON LOAD SHEETS PROVIDED.
9. PROVIDE NEW METER GUARD WITH CORRESPONDING UTILITY SERVICE.
10. PROVIDE NEW METER GUARD WITH CORRESPONDING UTILITY SERVICE.
11. COORDINATE SIZE OF EXISTING SERVICE BASED ON LOAD SHEETS PROVIDED.
12. COMPARE WITH UTILITY FOR REWORKING THE EXISTING SERVICE AS REQUIRED. COORDINATE SIZE OF EXISTING SERVICE BASED ON LOAD SHEETS PROVIDED.
13. PROVIDE NEW METER GUARD WITH CORRESPONDING UTILITY SERVICE.
14. PROVIDE NEW METER GUARD WITH CORRESPONDING UTILITY SERVICE.

E5.2
### PANELBOARD MDP 4 UNIT

**Demand Load Summary**

<table>
<thead>
<tr>
<th>UNIT TYPE</th>
<th>UNIT CONNECTED</th>
<th>SUBTOTAL CONNECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>180.3</td>
<td>30.3 KVA</td>
</tr>
<tr>
<td>20</td>
<td>30.3</td>
<td>30.3 KVA</td>
</tr>
<tr>
<td>30</td>
<td>30.3</td>
<td>30.3 KVA</td>
</tr>
<tr>
<td>50</td>
<td>30.3</td>
<td>30.3 KVA</td>
</tr>
<tr>
<td>85</td>
<td>30.3</td>
<td>30.3 KVA</td>
</tr>
<tr>
<td><strong>TOTAL UNITS:</strong></td>
<td><strong>6</strong></td>
<td><strong>180.3 KVA</strong></td>
</tr>
</tbody>
</table>

**Demand Factor:** 0.60

**Total Connected Load:** 121.2 KVA

**Service Demand Load:** 227 AMPS

**Service Size (100% Rated):** 400 ALMS

---

### PANELBOARD MDP 5 UNIT

**Demand Load Summary**

<table>
<thead>
<tr>
<th>UNIT TYPE</th>
<th>UNIT CONNECTED</th>
<th>SUBTOTAL CONNECTED</th>
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</thead>
<tbody>
<tr>
<td>16</td>
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<td>30.3 KVA</td>
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<tr>
<td><strong>TOTAL UNITS:</strong></td>
<td><strong>6</strong></td>
<td><strong>180.3 KVA</strong></td>
</tr>
</tbody>
</table>

**Demand Factor:** 0.60

**Total Connected Load:** 242.6 KVA

**Service Demand Load:** 436 AMPS

**Service Size (100% Rated):** 600 ALMS

---

**Notes:**

- Demand Factor: 0.60
- Service Demand Load: 227 AMPS
- Service Size: 400 ALMS
- **N/A** indicates an additional neutral.
### Circuit Key Notes

**Manufacturer Surge Protection** shall be provided for each unit load center.

*Total Demand Calcs* subtract any redundant load and the smaller of any noncoincident HVAC loads. This calculation is done at each panel.

#### NOTES:

- **11**
- **9**
- **8**
- **6**
- **5**
- **4**
- **2**

### Load Summary (Includes All Tubs in This Panel)

- **LOAD CLASSIFICATION**
- **CONNECTED LOAD**
- **DEMAND FACTOR**
- **ESTIMATED DEMAND TOTALS**

<table>
<thead>
<tr>
<th>CKT</th>
<th>LOAD DESCRIPTION</th>
<th>PHASE</th>
<th>TOTAL CONNECTED AMPS</th>
<th>PERCENTAGE OF TOTAL CONNECTED LOAD</th>
<th>TOTAL ESTIMATED DEMAND LOAD</th>
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<tbody>
<tr>
<td>01</td>
<td>PANEL HOUSE</td>
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<td>19.71 kVA</td>
<td>100.00%</td>
<td>19.71 kVA</td>
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</tbody>
</table>

### Distribution Panel MDP - 1506

- **ENCLOSURE**: SURFACE
- **LOCATION**: BUILDING EXTENSION

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<thead>
<tr>
<th>CAT</th>
<th>LOAD DESCRIPTION</th>
<th>PHASE</th>
<th>Amps</th>
<th>OCPD</th>
<th>Type</th>
<th>Acc.</th>
<th>Wire and Raceway</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3#6,1#10G, 3/4&quot;C.</td>
</tr>
</tbody>
</table>

### Panel House

- **ENCLOSURE**: SURFACE
- **LOCATION**: BUILDING EXTENSION

<table>
<thead>
<tr>
<th>CAT</th>
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<td></td>
<td></td>
<td></td>
<td>3#6,10G, 3/4&quot;C.</td>
</tr>
</tbody>
</table>

- **MAIN**: 150 A MDC
- **SPARES**: 100 A MDC