

GENERAL REQUIREMENTS

1. WORK PERFORMED SHALL COMPLY WITH THESE GENERAL NOTES UNLESS OTHERWISE NOTED ON PLANS.
2. ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS.
3. DIMENSIONS SHALL BE READ OR CALCULATED AND NEVER SCALED. ALL DIMENSIONS ARE TO THE ROUGH UNLESS NOTED OTHERWISE.
4. DISCREPANCIES: THE CONTRACTOR SHALL COMPARE & COORDINATE ALL DRAWINGS; WHEN IN THE OPINION OF THE CONTRACTOR, A DISCREPANCY EXISTS HE SHALL PROMPTLY REPORT IT TO THE DESIGNER OR PROPER ADJUSTMENT BEFORE PROCEEDING.
5. OMISSIONS: IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THE CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED.
6. ALL WORK IS TO BE PERFORMED IN A PROFESSIONAL MANNER AND IN ACCORDANCE WITH STANDARD PRACTICE AND SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.
7. THE GENERAL AND SUB-CONTRACTORS SHALL CAREFULLY EXAMINE THE DRAWINGS INSPECT THE SITE AND ACQUAINT THEMSELVES WITH ALL GOVERNING ORDINANCES, LAWS, ETC. AND OTHERWISE FAMILARIZE THEMSELVES WITH ALL MATTERS WHICH MAY AFFECT PERFORMANCE OF THE WORK.
8. THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AND SHORING, AS REQUIRED, TO ENSURE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR PORTION THEREOF DURING CONSTRUCTION.
10. ALL WALLS ARE DESIGNED AS LATERALLY BRACED BY THE FLOOR AND ROOF SYSTEMS. CONTRACTOR SHALL ENSURE THAT WALLS ARE ADEQUATELY BRACED DURING CONSTRUCTION.
11. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER.

FIELD VERIFICATION

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS

APPLICABLE CODES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH REQUIREMENTS OF LATEST IRC ADAPTED BY THE DISTRICT OF COLUMBIA.

EXISTING CONDITIONS

- ALL EXISTING BEAMS, COLUMNS, LINTELS, ANGLES AND JOISTS TO REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY MOST RECENT DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THESE DRAWINGS.
- INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING IS BASED ON AVAILABLE DESIGN DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR TO CONTACT STRUCTURAL ENGINEER UPON DISCOVERY OF ANY DISCREPANCY BETWEEN CONTRACT DRAWINGS AND ACTUAL EXISTING CONDITIONS.
- THE PORTIONS OF THE BUILDING THAT ARE SHOWN TO BE STRUCTURALLY MODIFIED HAVE BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICE. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY DAMAGE THAT MAY ARISE FOR ANY PORTION OF THE BUILDING NOT REDESIGNED, ALTERED OR CONSTRUCTED UNDER THIS SET OF DESIGN DRAWINGS OR OF DEFICIENCIES IN THE CONDITION OF THE BUILDING PRIOR TO RENOVATION.

COORDINATION

COORDINATE ALL SLEEVES DUCT OPENINGS AND HOLES BETWEEN TRADES. ANY CONDUITS OR PIPES EMBEDDED IN CONCRETE MUST BE IN ACCORDANCE WITH ACI 318. NO SLEEVE SHALL BE PLACED WITHIN 6" OF ANY COLUMN WITHOUT THE APPROVAL OF THE ENGINEER. SLAB BARS TO BE SPACED TO CLEAR SLEEVES BY $1\frac{1}{2}$ " MINIMUM AND $1\frac{1}{2}$ " MINIMUM CLEAR BETWEEN BARS IS TO BE MAINTAINED. WHERE SLEEVES ARE CLOSELY SPACED IN A GROUP, THE GROUP SHALL BE TREATED AS AN OPENING AND REINFORCED ACCORDINGLY. SUBMIT DRAWINGS SHOWING ALL OPENING SIZES AND LOCATIONS FOR APPROVAL BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

EARTHWORK

1. THE SOIL BEARING PRESSURE FOR ALL FOOTINGS IS ASSUMED TO BE 1500 PSF. SHOULD UNSTABLE SOILS BE ENCOUNTERED, FOOTINGS SHALL BE EXCAVATED AND REPLACED WITH LEAN CONCRETE, $F'c=2000$ PSI.
2. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'6" BELOW EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
3. ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL AND SHALL BE SELECTED ON THE BASIS OF LABORATORY COMPACTION TESTS, HAVING A LIQUID LIMIT LESS THAN 40, A PLASTICITY LESS THAN 15. FILL PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED TO 95% OF THE DRY DENSITY OBTAINED BY ASTM D1557, MODIFIED PROCTOR METHOD.

MASONRY

1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS (ASTM C90) GRADE N-1 WITH A NET STRENGTH OF 2000 PSI AND F'M-1350 PSI.
2. ALL FACE BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216 ND C652, GRADE MW OR SW, TYPE FBS, FBX, OR FBA. WITH MINIMUM COMPRESSIVE STRENGTH = 6000 PSI.
3. ALL JOINTS TO BE FILLED SOLID WITH MORTAR.
4. MASONRY MORTAR TO COMPLY WITH ASTM C270 TYPE S FOR HOLLOW CMU WALLS AND TYPE N FOR VENEER WALLS.
5. BRICK TIES SHALL BE ATTACHED TO ALL BRICK VENEER SPACED AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY (MAXIMUM). CORRUGATED TIES ARE PROHIBITED FOR WALLS WITH CAVITIES OVER 1". TIES SHALL EXTEND 3" INTO BRICK AND/OR CMU.
6. TIE MATERIAL SHALL CONFORM TO ASTM A366 AND ASTM A153, CLASS B2, HOT DIP GALVANIZED (1.5 OZ/SF.) STEEL WIRE SHALL CONFORM TO ASTM A82.
7. 9 GAGE (TRUSS-TYPE/LADDER TYPE) REINFORCEMENT SHALL BE PROVIDED IN ALL MASONRY WALLS AT A MAXIMUM OF 16" OC. (EVERY OTHER COURSE) UNLESS OTHERWISE NOTED. USE PREFABRICATED L'S AND T'S AT ALL CORNERS AND INTERSECTIONS. REINFORCEMENT SHALL BE LAPPED AT A MINIMUM OF 12".
8. GROUT FOR MASONRY SHALL BE 2500 PSI PEA GRAVEL CONCRETE WITH A SLUMP OF 9". HEIGHT OF POUR SHALL BE LIMITED TO 32" MAXIMUM. GROUT SHALL BE PLACED WITHIN 1 1/2 HOURS AFTER WATER IS FIRST ADDED TO MIX. GROUTING SHALL BE DONE IN A CONTINUOUS POUR. IT SHALL BE CONSOLIDATED BY RODDING OR VIBRATING DURING PLACEMENT AND THEN RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ADSORBED. ALL REINFORCED MASONRY SHALL BE IN ACCORDANCE WITH ACI 67-23A. ALL BAR LAPS SHALL BE 2'-0". UNLESS NOTED OTHERWISE.
9. ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-02/ASCE 6-02/TMS 602-02.

LUMBER

1. DIMENSIONED LUMBER SHALL BE HEM-FIR, DOUGLAS FIR, OR SPRUCE-PINE-FIR WITH MIN. $F_b = (1200\text{PSI})$ MIN., $F_v = (70\text{PSI})$ MIN., $E = (1,400,000\text{PSI})$ AND A MAXIMUM MOISTURE CONTENT OF 19%, AS CERTIFIED BY AN NFPA APPROVED AGENCY.
2. ALL EXPOSED LUMBER SHALL BE PRESSURE TREATED.
3. MICRO-LAM LUMBER SHALL HAVE MIN. $F_b = (2600\text{PSI})$ AND MIN. $F_v = (285\text{PSI})$ WITH DRESSED SIZED DIMENSIONS NOT LESS THAN THOSE SHOWN IN PLAN.
4. PROVIDE 16 GA. JOIST HANGERS OR ANGLE CLIPS TO ALL JOIST CONNECTIONS WHERE THERE IS NO DIRECT BEARING SUPPORT WITH A CAPACITY OF 120% OF ALLOWABLE UNIFORM LOAD END REACTION FOR THE GIVEN SPAN.
5. NAIL ALL MULTIPLE 2X BEAMS COLUMNS TOGETHER WITH MINIMUM 10d NAILS @ 12" O.C. STAGGERED UNLESS NOTED OTHERWISE.
6. PROVIDE BLOCKING BETWEEN ALL JOISTS AT BEARING.
7. PROVIDE BRIDGING/BLOCKING AT THE CENTER OF SPAN OF JOISTS & STUDS OR INTERVALS NOT EXCEEDING 6 FEET.
8. SPACE MEMBERS AT 16" O.C. UNLESS NOTED OTHERWISE.
9. DO NOT CUT HOLES IN MEMBERS WITHOUT APPROVAL OF A/E

THERMAL & MOISTURE PROTECTION: DAMP PROOFING

1. IN AREAS WHERE A HIGH WATER TABLE OR OTHER SEVERE SOIL-WATER CONDITIONS ARE KNOWN TO EXIST, EXTERIOR FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE HABITABLE OR USABLE SPACES LOCATED BELOW GRADE SHALL BE WATERPROOFED WITH A MEMBRANE EXTENDING FROM THE TOP OF THE FOOTING TO FINISHED GRADE. THE MEMBRANE SHALL BE LAPPED AND SEALED WITH AN ADHESIVE COMPATIBLE WITH THE WATERPROOFING MEMBRANE.

PROJECT NARRATIVE

INTERIOR RENOVATION AND CONVERSION OF SINGLE-FAMILY SEMI-DETACHED DWELLING TO 2-UNIT FLAT. RENOVATIONS INCLUDE LOWERING OF BASEMENT CONCRETE SLAB, ADDING A NEW BASEMENT ENTRY AT REAR OF PROPERTY, AS WELL AS NEW MECHANICAL, ELECTRICAL AND PLUMBING.

APPLICABLE BUILDING CODES

THIS PROJECT CONFORMS TO ALL APPLICABLE BUILDING CODES & ZONING REGULATIONS FOR THE DISTRICT OF COLUMBIA. ALL CODES SUBJECT TO THE DISTRICT OF COLUMBIA CONSTRUCTION CODES 2012 SUPPLEMENT AMENDMENTS AND ALL REVISIONS

BUILDING IBC 2012:	INTERNATIONAL BUILDING CODE - 2012, DCMR 13A
MECHANICAL IMC 2012:	INTERNATIONAL MECHANICAL CODE - 2012, DCMR 13E
PLUMBING IPC 2012:	INTERNATIONAL PLUMBING CODE - 2012 DCMR 13F
ELECTRICAL: 2011 NEC/NFPA 70 - NATIONAL ELECTRICAL CODE, DCMR13C	
FIRE IFC 2012:	INTERNATIONAL FIRE CODE - 2012, DCMR 13H
ENERGY IECC 2012:	INTERNATIONAL ENERGY CONSERVATION CODE - 2012 DCMR13I
FUEL IFGC 2012:	INTERNATIONAL FUEL GAS CODE - 2012, DCMR 13D
EXISTING BLDG IEBC 2012:	INTERNATIONAL EXISTING BLDG CODE - 2012, DCMR 13J
PROPERTY IPMC 2012:	INTERNATIONAL PROPERTY MAINTANCE CODE - 2012, DCMR 13G
AMENDMENTS:	DCMR13 BUILDING CODE REGULATIONS, 2012
ZONING:	DCMR TITLE 11 - ZONING REGULATIONS

 INSULATION AND FENESTRATION REQUIREMENTS
BY COMPONENT:

CLIMATE ZONE: 4-EXCEPT MARINE

FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.60
GLAZED FENESTRATION - SHGC	0.55
CEILING R-VALUE	49
WOOD FRAME WALL	20
MASS WALL R-VALUE	8/13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10/13
SLAB R-VALUE & DEPTH	10, 2FT
CRAWL SPACE R-VALUE	10/13



1. REDI-EXIT® GALVANIZED (90G) CORRUGATED STEEL WINDOW WELL OR STAKWEL® WINDOW WELLS
2. EACH LADDER RUNG IS 12" FROM RUNG TO RUNG, 16" WIDE, AND PROJECTS 4" INTO THE WELL

PRIVATE RESIDENCE
5058 CENTRAL AVENUE SE
WASHINGTON, DC

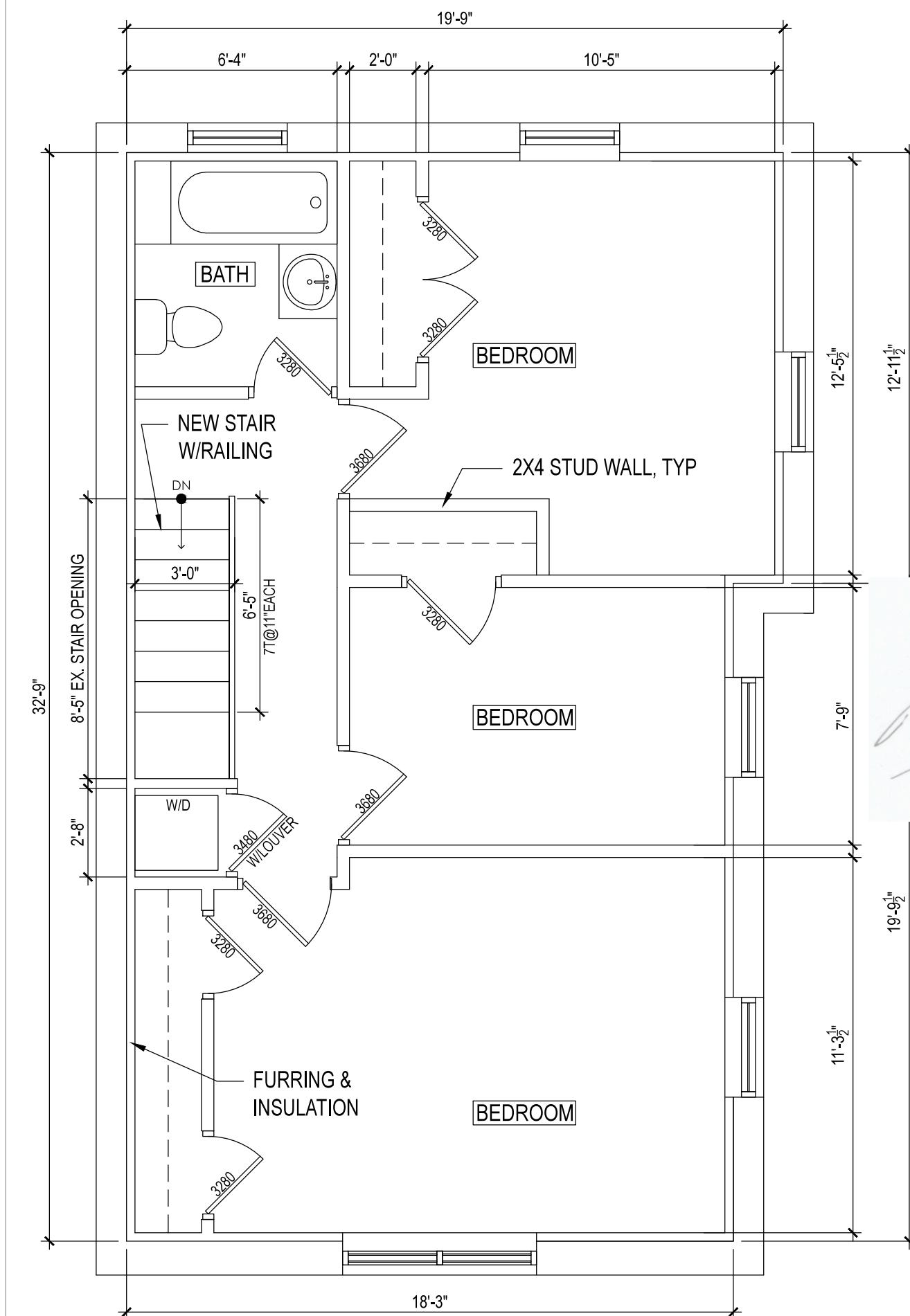
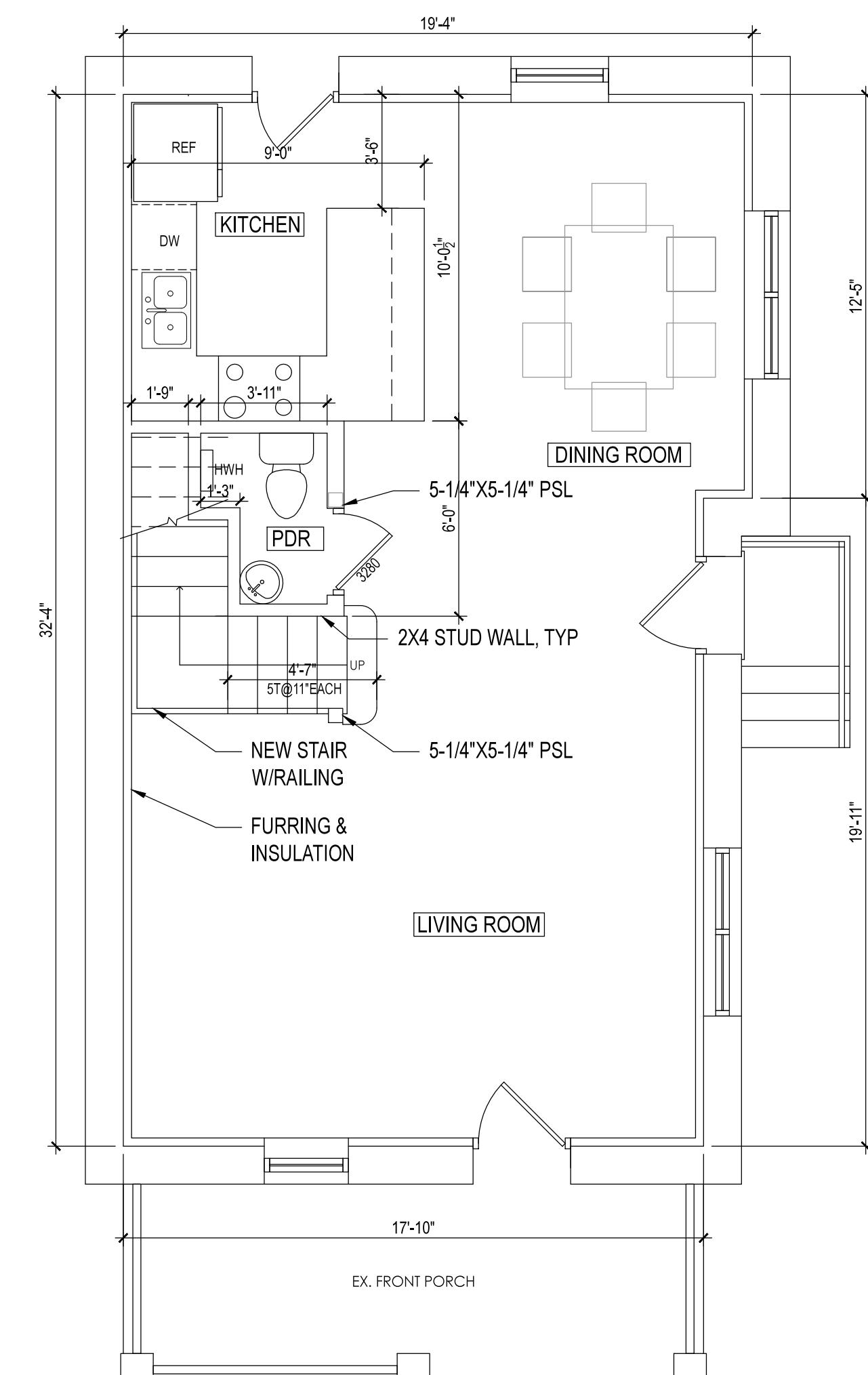
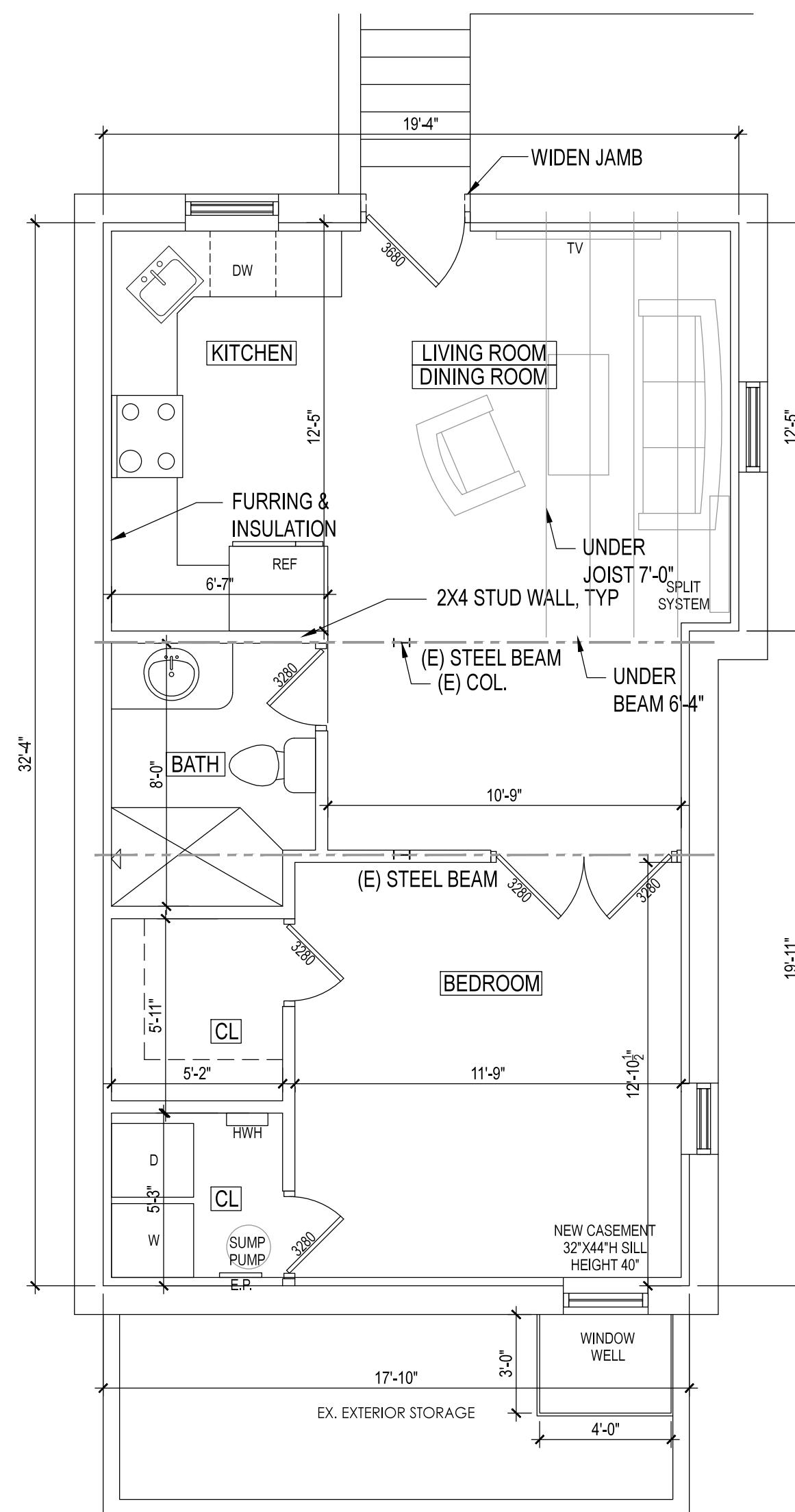
STRUCTURAL CERTIFICATION:
Structural plans certified as provided in Section 106.1.4.1 of the D.C. Construction Codes.

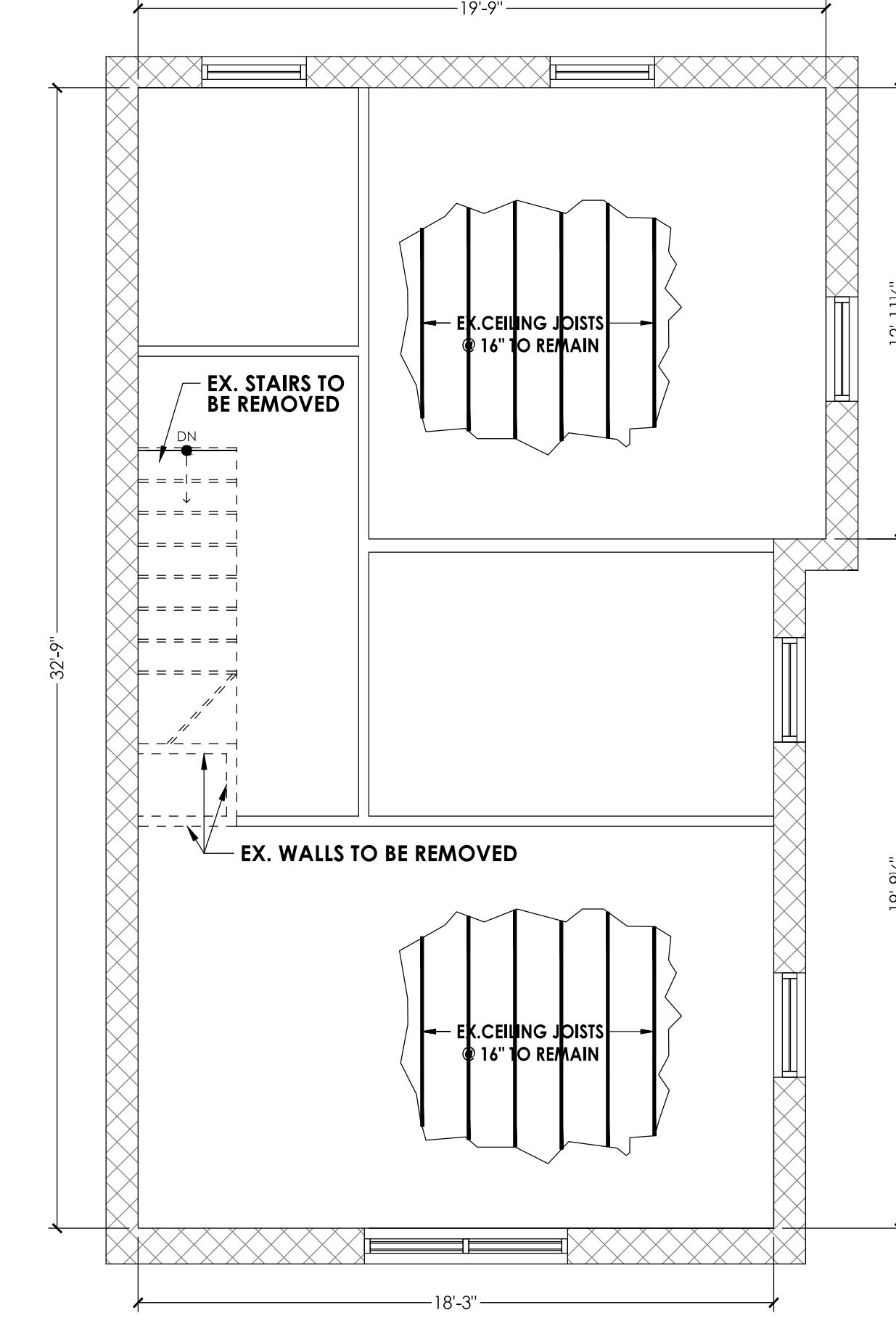
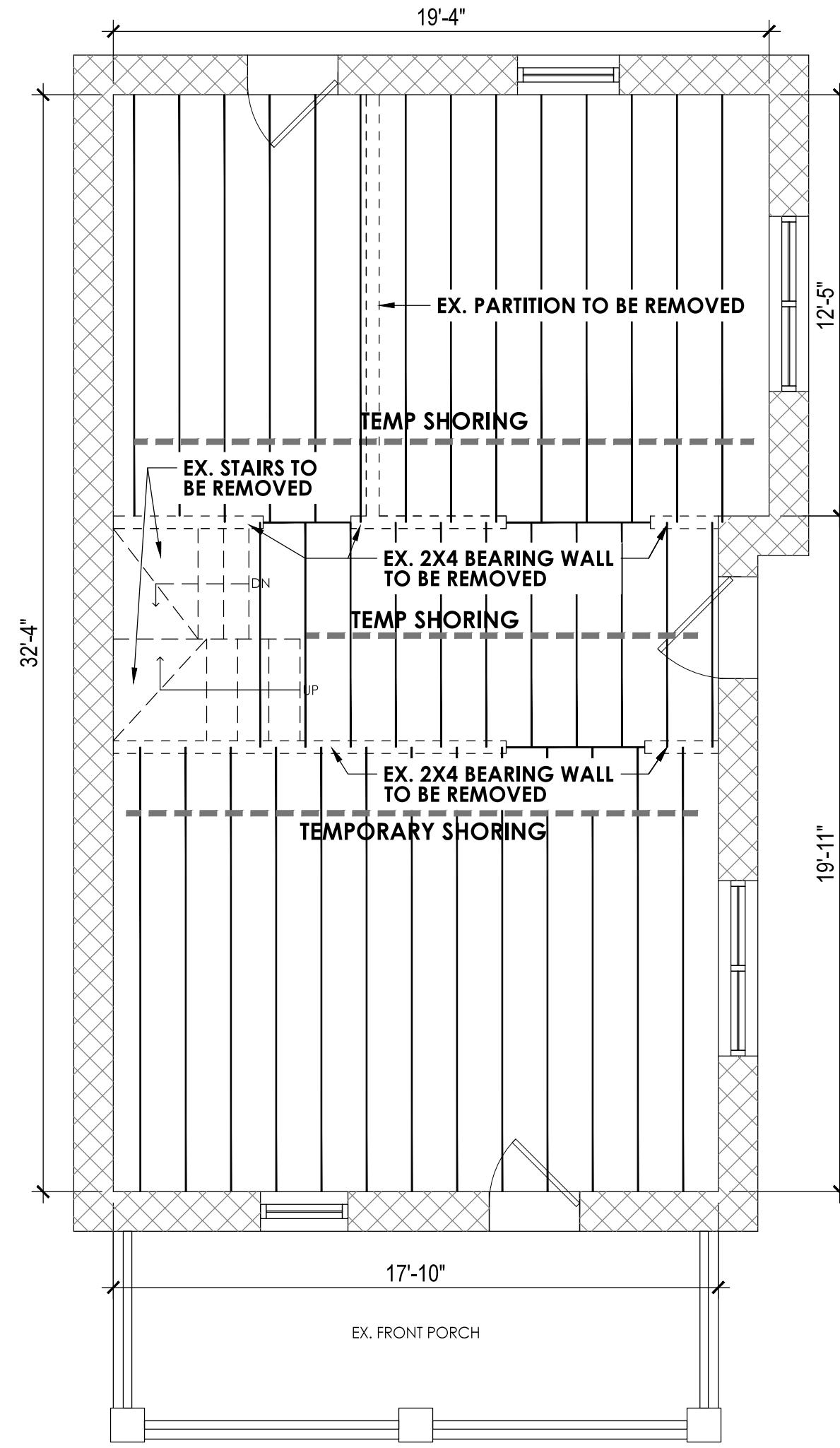
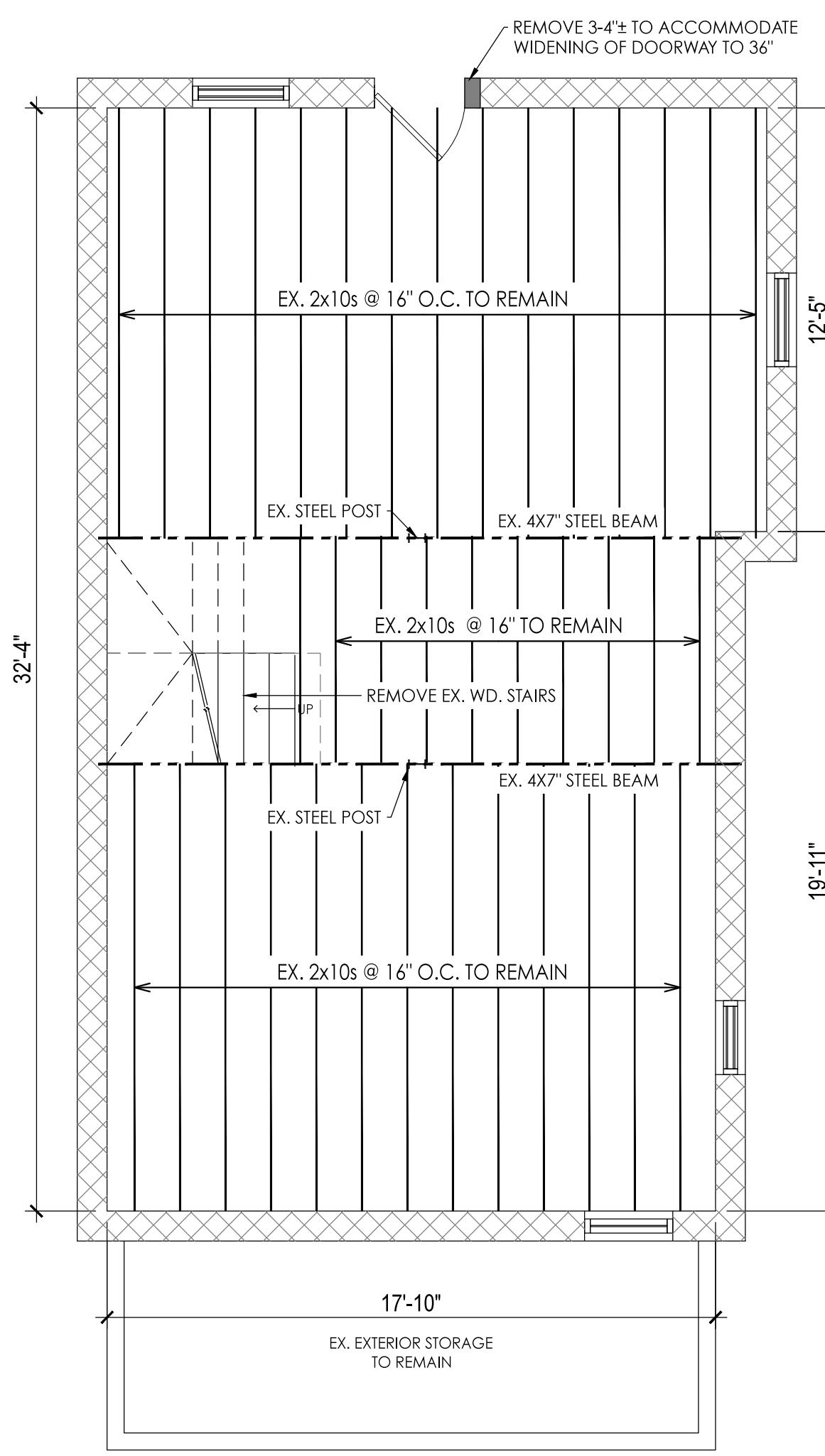
REVISIONS

PROJECT No. _____
DATE: December 4, 2016
SCALE: AS SHOWN

PROPOSED
FLOOR PLANS

A101






PRIVATE RESIDENCE
 5058 CENTRAL AVENUE SE
 WASHINGTON, DC

STRUCTURAL CERTIFICATION:
 Structural plans certified as provided in Section 106.1.4.1 of the D.C. Construction Codes.

REVISIONS

PROJECT No. **DATE:** December 4, 2016
SCALE: AS SHOWN

EXISTING/DEMO
ARCH. FLOOR PLANS

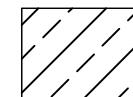
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PROJECT DESCRIPTION

INTERIOR RENOVATION OF EXISTING 2-STORY+CELLAR SEMI-DETACHED ROWHOUSE AND CONVERSION TO 2-UNIT FLAT. RENOVATION INCLUDES LOWERING OF BASEMENT SLAB TO 5-INCHES AS WELL AS A NEW BASEMENT ENTRY AT THE REAR OF THE PROPERTY.

LAND DISTURBANCE

DISTURBED AREA: 700 SF



CONSTRUCTION ENTRANCE:



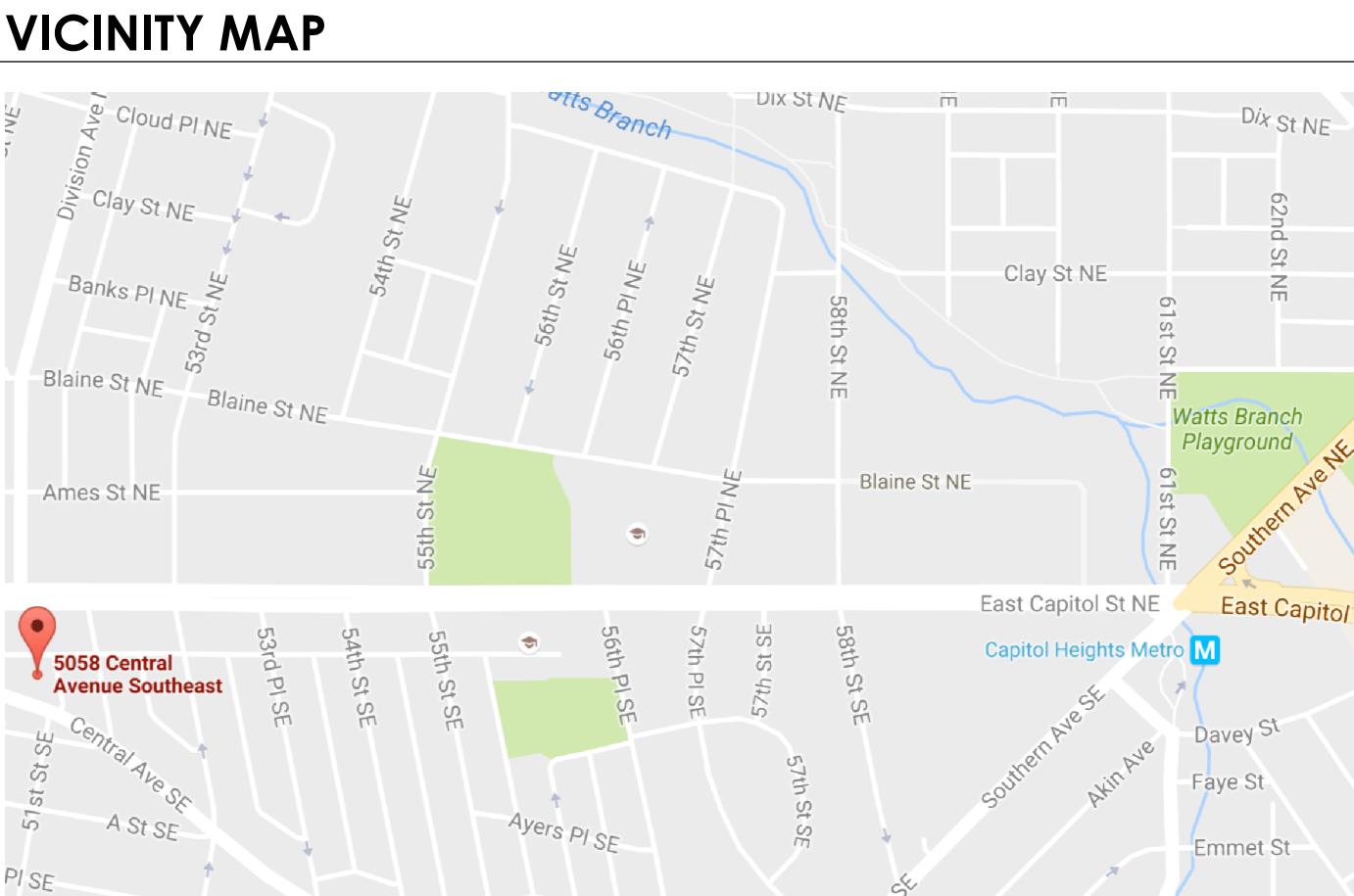
VOLUME OF EXCAVATION: 20 CUBIC YARDS

LIMIT-OF-DISTURBANCE: — LOD —

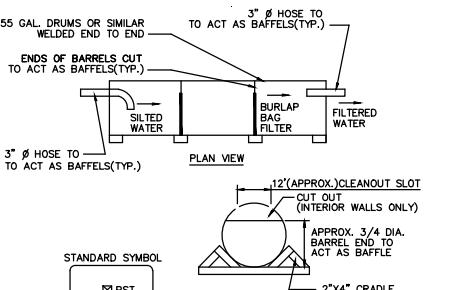
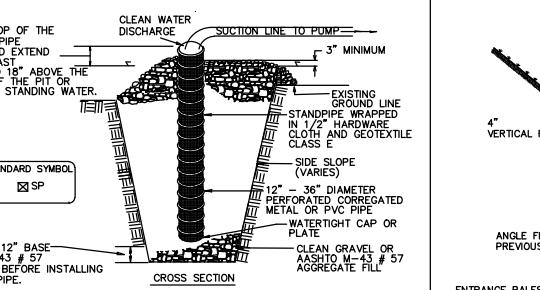
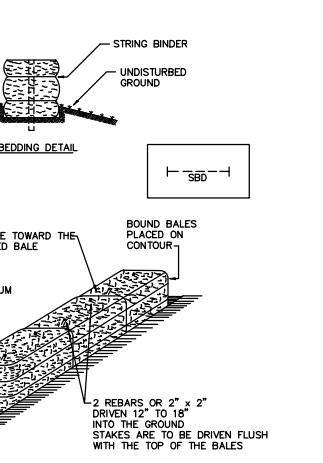
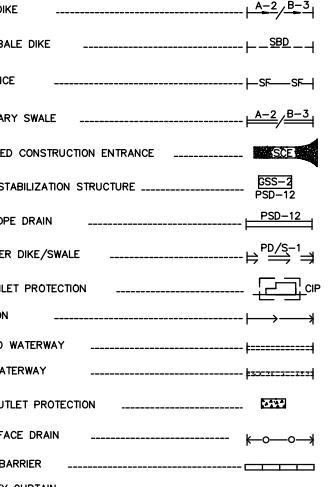
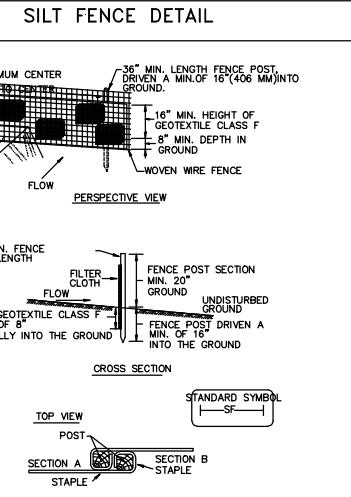
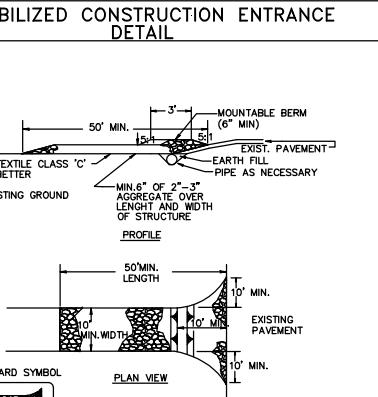
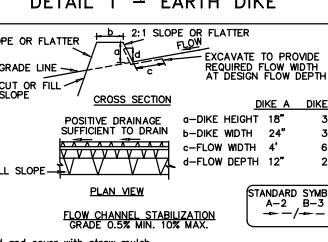
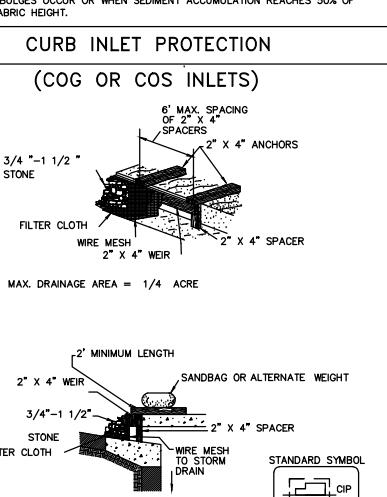
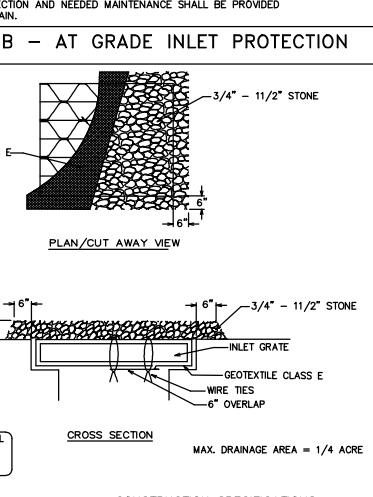
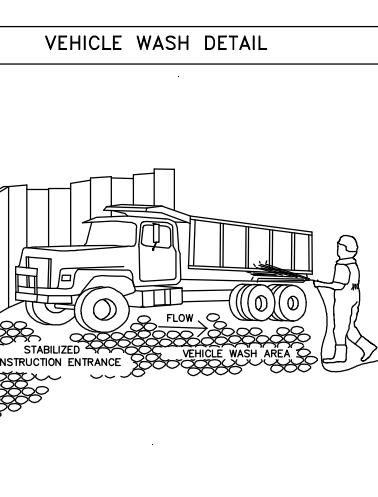
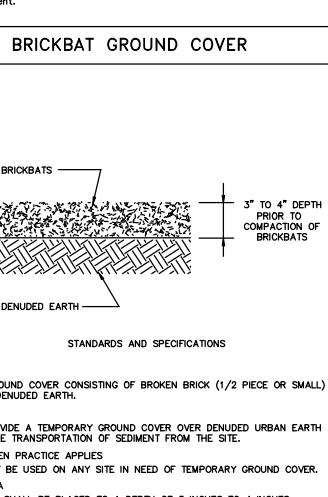
SILT FENCE: — SF —

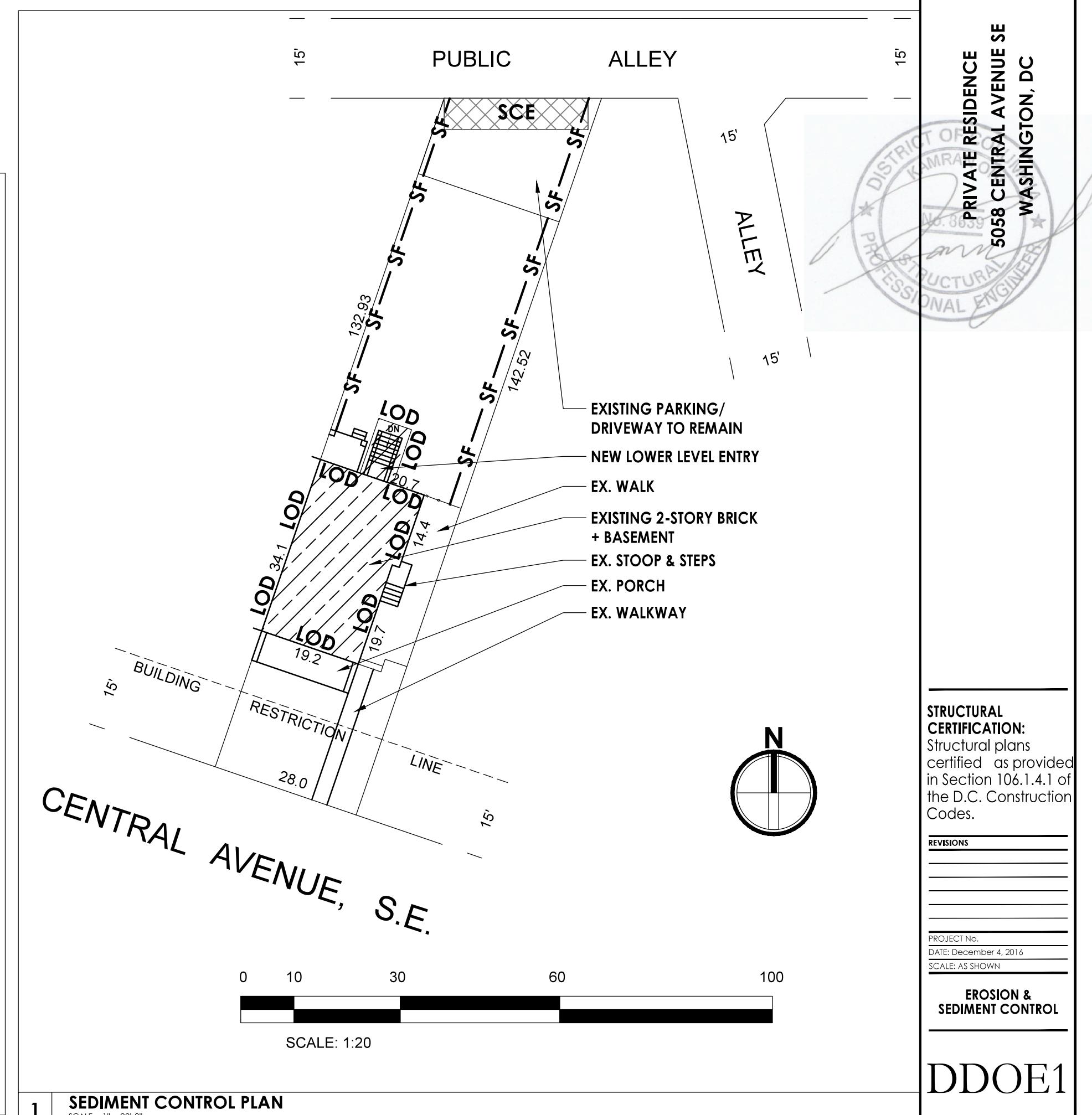
NOTES / CONSTRUCTION SEQUENCE

1. CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING WITH SEDIMENT CONTROL INSPECTOR OF DISTRICT DEPARTMENT OF THE ENVIRONMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION/LAND DISTURBANCE. MEETING TO BE SCHEDULED BY CALLING: 202.535.2240
2. INSTALL SILT FENCE AND SECURE STABILIZED CONSTRUCTION ENTRANCE AS SHOWN.
3. REMOVE EXISTING VEGETATION AND PROVIDE TREE PROTECTION, AS NEEDED.
4. CONTRACTOR TO COMPLY WITH DC SEDIMENT CONTROL REQUIREMENTS.
5. AFTER CONSTRUCTION COMPLETION AND APPROVAL OF SEDIMENT CONTROL OFFICER FROM DISTRICT DEPARTMENT OF THE ENVIRONMENT, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE MAY BE REMOVED.



DDOE EROSION/SEDIMENT CONTROL DETAILS

PORTABLE SEDIMENT TANK DETAIL	SUMP PIT DETAIL	STRAW BALE DIKE DETAIL	STANDARDS AND SPECIFICATIONS FOR DUST CONTROL	STANDARD SYMBOLS																								
 <p>CONSTRUCTION NOTES</p> <ol style="list-style-type: none"> CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDED THAT THE VOLUME REQUIREMENTS ARE MET AND THE APPROVAL IS FROM THE APPROVING AGENCY. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAP DEVICE AS APPROVED BY THE INSPECTOR. TANK STORAGE VOLUME REQUIRED: 16 CUBIC FEET OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. MULTIPLE TANKS MAY BE USED. 	 <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE, THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE CLASS E. THE PERFORATIONS SHALL BE 1/2" X 6" SLITS OR 1" DIAMETER HOLES. A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR #57 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LINE OF THE PIT OR THE RISER CREST ELEVATION (BASIN Dewatering ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION. 	 <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> ANGLE FIRST STAKE TOWARD THE PREVIOUSLY PLACED BALE. ENTRANCE BALES A MINIMUM OF 4" INTO THE GROUND. 2 REBARS OF 2" X 2" DRIVEN 12" TO 18" INTO THE GROUND. STAKES ARE TO BE DRIVEN FLUSH WITH THE TOP OF THE BALES. 	<ol style="list-style-type: none"> THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING CONSTRUCTION PERIODS ON SITE. THESE CONTROL MEASURES WILL INCLUDE THE USE OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL: <ol style="list-style-type: none"> APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8KPa), MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL: <ol style="list-style-type: none"> APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE TREATED DURING CONSTRUCTION WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES. 																									
SILT FENCE <table border="1"> <thead> <tr> <th colspan="3">SILT FENCE DESIGN CRITERIA</th> </tr> <tr> <th>SLOPE STEEPNESS</th> <th>(MAXIMUM) SLOPE LENGTH</th> <th>(MAXIMUM) SILT FENCE LENGTH</th> </tr> </thead> <tbody> <tr> <td>FLATTER THAN 50:1</td> <td>UNLIMITED</td> <td>UNLIMITED</td> </tr> <tr> <td>50:1 TO 10:1</td> <td>125 FT.</td> <td>1,000 FT.</td> </tr> <tr> <td>10:1 TO 5:1</td> <td>100 FT.</td> <td>750 FT.</td> </tr> <tr> <td>5:1 TO 3:1</td> <td>60 FT.</td> <td>500 FT.</td> </tr> <tr> <td>3:1 TO 2:1</td> <td>40 FT.</td> <td>250 FT.</td> </tr> <tr> <td>2:1 AND STEEPER</td> <td>20 FT.</td> <td>125 FT.</td> </tr> </tbody> </table> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> FENCE POST SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POST SHALL BE 1 1/2" SQUARE (MINIMUM) CUT, OR 1 3/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POST WILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POUND PER LINEAR FOOT. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F: <ul style="list-style-type: none"> TENSILE STRENGTH 50 LBS./IN. (MIN.) TEST: MSMT 509 TENSILE MODULUS 20 LBS./IN. (MIN.) TEST: MSMT 509 FLOW RATE 0.3 GAL. FT./MIN. (MAX) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.) TEST: MSMT 322 WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT. 	SILT FENCE DESIGN CRITERIA			SLOPE STEEPNESS	(MAXIMUM) SLOPE LENGTH	(MAXIMUM) SILT FENCE LENGTH	FLATTER THAN 50:1	UNLIMITED	UNLIMITED	50:1 TO 10:1	125 FT.	1,000 FT.	10:1 TO 5:1	100 FT.	750 FT.	5:1 TO 3:1	60 FT.	500 FT.	3:1 TO 2:1	40 FT.	250 FT.	2:1 AND STEEPER	20 FT.	125 FT.	SILT FENCE DETAIL  <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> LENGTH - MIN. OF 50' RAMP X 30' RAMP FOR SINGLE RESIDENCE LOT. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MIN. OF 6' OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE WHEN THE SCE IS LOCATED ON A HIGH SPUR AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MIN. WILL BE REQUIRED. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO A APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. 	SCE CONSTRUCTION SPECIFICATION	STABILIZED CONSTRUCTION ENTRANCE DETAIL  <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed stabilized area at a non-erosive velocity. Excavated earth, brush, ramps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow. Fill shall be compacted by earth moving equipment. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike. Inspection and maintenance must be provided periodically and after each rain event. 	DETAIL 1 - EARTH DIKE  <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> Seed and cover with straw mulch. Seed and cover with Erosion Control Matting or line with sod. 4' - 7' stone or recycled concrete equivalent pressed into the soil 7" thick. <p>Construction Specifications</p> <ol style="list-style-type: none"> All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed stabilized area at a non-erosive velocity. Excavated earth, brush, ramps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow. Fill shall be compacted by earth moving equipment. 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2:1 AND STEEPER	20 FT.	125 FT.																										
CURB INLET PROTECTION 	CURB INLET PROTECTION NOTES <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> ATTACH A CONTINUOUS PIECE OF WIRE MESH 30" MIN. WIDTH BY THROAT LENGTH PLUS 4" TO THE 2" X 4" WEIR (MEASURING THROAT LENGTH) PLUS 2" AS SHOWN ON THE STANDARD DRAWING PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" X 4" WEIR. SECURELY NAIL THE 2" X 4" WEIR TO A 9" LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 4" APART). PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MIN. 2' LENGTHS OF 2" X 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MIN. 1' (0.31 M) BEYOND BOTH ENDS OF THE THROAT OPENING. FORM THE 1/2" X 1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE CUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4" X 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT. ASSURE THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT FLOW TO THE INLET. 	DETAIL 23B - AT GRADE INLET PROTECTION  <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS THEN SET GRATE BACK IN PLACE. PLACE 3/4" TO 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION. 	VEHICLE WASH DETAIL 	BRICKBAT GROUND COVER  <p>STANDARDS AND SPECIFICATIONS</p> <p>DEFINITION</p> <p>TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2 PIECE OR SMALL) PLACED OVER DENUDED EARTH.</p> <p>PURPOSE</p> <p>BRICKBATS PROVIDE A TEMPORARY GROUND COVER OVER DENUDED URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE.</p> <p>CONDITIONS WHEN PRACTICE APPLIES</p> <p>BRICKBATS MAY BE USED ON ANY SITE IN NEED OF TEMPORARY GROUND COVER.</p> <p>DESIGN CRITERIA</p> <p>THE BRICKBATS SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE DENUDED EARTH ON THE SITE, THEN COMPAKTED AND LEVELED.</p>																								



ELECTRICAL NOTES:

- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING WITH MANUFACTURER'S RECOMMENDATIONS.
- CIRCUIT NUMBER SHOWN ARE FOR IDENTIFICATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BALANCE ALL PHASES IN THE PANELBOARD (BALANCE LOAD).
- SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT BEFORE ROUGH-IN. COORDINATE WITH ARCH/MECH/PLUM DWGS.
- WHERE WIRE SIZES ARE INDICATED ON THE PLANS FOR INDIVIDUAL CIRCUITS, THE INDICATED WIRE SIZE SHALL APPLY TO THE COMPLETE CIRCUIT UNLESS OTHERWISE NOTED.
- NOT USED.
- SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF BUILDING EQUIPMENT BEFORE ROUGH-IN.
- CONDUIT AND/OR CABLE RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITION WILL DETERMINE ACTUAL RUNS.
- MODULAR METERING EQUIPMENT WHEN USED IN CONJUNCTION WITH STANDARD 10K CIRCUIT BREAKER IN BUILDING LOAD CENTERS, SHALL BE SERIES RATED FOR MINIMUM 22K RMS SYMMETRICAL AMPERES.
- ALL JUNCTION BOXES SHALL BE OF CODE GAUGE AND OF THE SIZE, REQUIRED TO ACCOMMODATE CONSTRUCTION SHOWN.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION BEFORE ROUGH-IN.
- THE CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER THE EXACT LOCATION OF CONNECTION BOX TO MECHANICAL EQUIPMENT BEFORE ROUGH-IN. COORDINATE WITH ARCH/MECH/PLUM DWGS.
- THE CONTRACTOR SHALL EXTEND WIRING FROM THE JUNCTION BOX, RECEPTACLE ETC., AND MAKE FINAL CONNECTION TO ALL BUILDING ELECTRICAL CONNECTION.
- ALL WORKMANSHIP, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF CONSTRUCTION BY THE OWNER.
- LOAD CENTER SHALL BE THE CIRCUIT BREAKER TYPE AS MANUFACTURED BY SQUARE D CO., CUTTLER HAMMER OR EQUAL.
- THE CONTRACTOR SHALL VISIT EXISTING SITE AND DETERMINE WHICH MATERIAL EFFECT HIS BID.
- THE CONTRACTOR SHALL RESTORE ALL SYSTEMS AND AREAS DISTURBED BY HIS WORK TO THE SATISFACTION OF THE OWNER AND DEVELOPER.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND CERTIFICATIONS OF INSPECTIONS INCLUDING THE COST OF SAME IN HIS CONTRACT.
- ALL NEW MATERIALS FURNISHED FOR THIS PROJECT SHALL BE LISTED BY THE UNDERWRITER'S LATORIES, INC.
- ALL PHOTOCELLS SHALL BE WEATHERPROOFED, SURFACED MOUNTED WITH CORROSION PROOF PLATE AND SHALL BE MANUFACTURED BY TORK OR SIMILAR.
- THE CONTRACTOR MUST ASSURE EQUIPMENT GROUNDING SYSTEM CONTINUITY.

TYPICAL UNIT PANEL SCHEDULE 150A

AMP	SERIAL	ROOM	SERIAL	ROOM	AMP
20	1	KITCHEN	2	KITCHEN	20
20	3	GARBAGE DISP	4	GENERAL LIGHTS	20
20	5	WASHER/DRYER	6	OUTLET	20
20	7	BATHROOM	8	AC UNIT 1	40
30	9	WATER HEATER	10	BEDROOM OUTLET & LIGHTS	20
20	11	SPARE	12	SPARE	20

TYPICAL UNIT PANEL SCHEDULE 200A

AMP	SERIAL	ROOM	SERIAL	ROOM	AMP
20	1	KITCHEN	2	KITCHEN	20
20	3	GARBAGE DISP	4	KITCHEN	20
20	5	WASHER/DRYER	6	GENERAL LIGHTS	20
20	7	BATHROOM	8	GENERAL LIGHTS	20
20	9	BATHROOM	10	GENERAL LIGHTS	20
30	11	WATER HEATER	12	GENERAL LIGHTS	20
20	13	OUTLET	14	OUTLET	20
20	15	OUTLET	16	AC UNIT 1	40
20	17	SPARE	18	SPARE	20
20	19	SPARE	20	SPARE	20

NOTES:

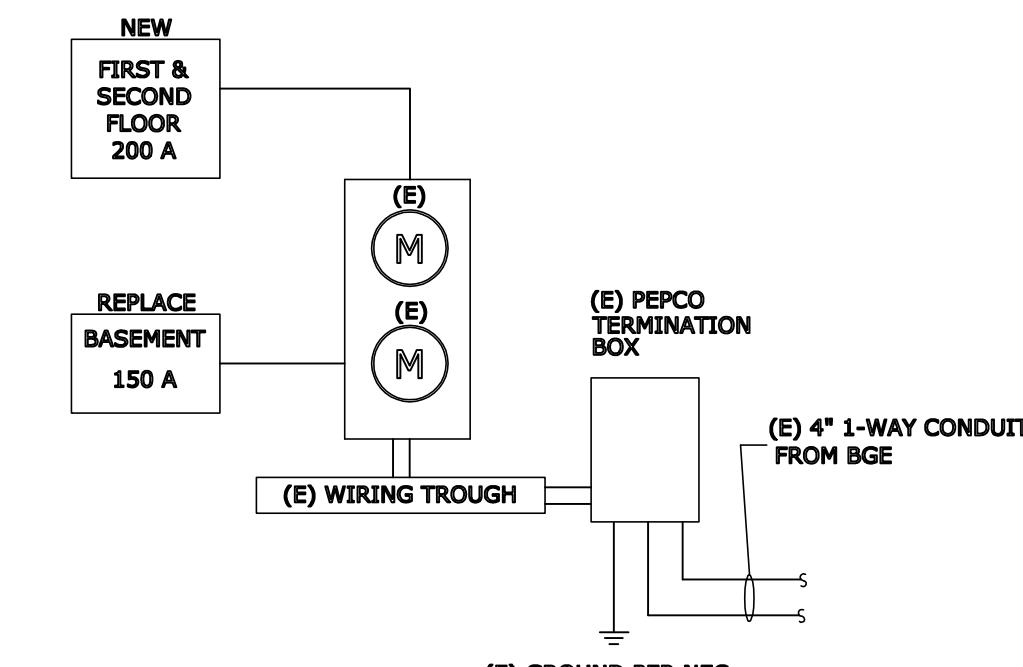
- PLEASE REFER TO EXISTING PANEL SCHEDULE PRIOR TO MODIFICATION.
- NEED TO COORDINATE W/MECH EQUIPMENT FOR HVAC SYSTEMS.

21. THERMOSTAT WIRING SHALL BE AS PER DIAGRAM BY UNIT MANUFACTURER, SEE MECHANICAL PLANS FOR EXACT LOCATION.
22. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND OTHER RULES AND REGULATIONS OF THE LOCAL ELECTRICAL AND BUILDING CODES.
23. ALL WIRING SHALL BE "BX" WITH COPPER GROUND.
24. OUTLETS MOUNTED ON COMMON WALL SHALL NOT BE MOUNTED BACK TO BACK. THEY SHALL BE STAGGERED TO PREVENT SOUND TRANSMISSION.
25. UNIT SHALL BE PREWIRED WITH A MINIMUM OF 2 PAIR OF 24 AWG TELEPHONE CABLES USING MODULAR JACKS, TERMINATING IN STANDARD NETWORK INTERFACE AS REQUIRED BY C & P TELEPHONE COMPANY.
26. THE CONTRACTOR SHALL COORDINATE DOOR ENTRY SYSTEM REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN AND PROVIDE ALL NECESSARY COMPONENTS TO ENSURE THAT A COMPLETED OPERATING SYSTEM IS PROVIDED.
27. BRANCH CIRCUIT CONNECTIONS SHALL BE MINIMUM NO. 12 AWG. HOMERUNS SHALL BE NO. 10 AWG = TW INSULATION +/- LARGER = FEEDERS = THWN INSULATION.
28. AFCI FOR ALL 15 AND 20 AMP BRANCH CIRCUITS PROVIDING POWER TO OUTLETS IN RESIDENTIAL FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR AREAS.

ELECTRICAL SYMBOLS	
∅	DUPLEX OUTLET 18" A.F.F.
∅42	DUPLEX OUTLET 42" A.F.F.
∅	DUPLEX OUTLET 18" A.F.F. HALF SWITCHED
∅220	220 VOLT DUPLEX OUTLET
∅WP	WATERPROOF RECEPTACLE
∅GFI	GROUND FAULT INTERRUPTER
∅42	GROUND FAULT INTERRUPTER 42" A.F.F.
\$	WALL SWITCH
\$3	3-WAY WALL SWITCH
●	EXHAUST FAN
○	CARBON MONOXIDE DETECTOR
(R)	HIGH-EFFICIENCY FLUORESCENT LIGHT RECESSED LIGHT
○	HIGH-EFFICIENCY FLUORESCENT LIGHT WALL MOUNTED
(T)	THERMOSTAT
•	GARBAGE DISPOSAL
(SD)	SMOKE DETECTOR
(EP)	ELECTRIC PANEL
(EM)	ELECTRIC METER
—	UNDER CABINET LIGHT
○—○	LIGHT FIXTURE CEILING MOUNTED
○—○—○	LIGHT FIXTURE PENDANT LIGHT
(P)	CEILING FAN PREWIRE

Normal Residential usage

3/0 Gauge	200 Amps	Service entrance
1/0 Gauge	150 Amps	Service entrance and feeder wire
3 Gauge	100 Amps	Service entrance and feeder wire
6 Gauge	55 Amps	Feeder and large appliance wire
8 Gauge	40 Amps	Feeder and large appliance wire
10 Gauge	30 Amps	Dryers, appliances, and air conditioning
12 Gauge	20 Amps	Appliance, laundry and bathroom circuits
14 Gauge	15 Amps	General lighting and receptacle circuits



THE NATIONAL ELECTRICAL CODE SPECIFIES THAT THE PROPER METHOD OF GROUNDING THE ELECTRICAL SERVICE OF A BUILDING OR STRUCTURE SHALL BE IN ACCORDANCE WITH SECTION 250-24(A). SECTION 250-24(A) DIRECTS THAT ALTERNATING CURRENT SYSTEMS WHICH ARE REQUIRED TO BE GROUNDED BY SECTION 250-20(B), HAVE A GROUNDING ELECTRODE CONDUCTOR BONDED FROM THE SERVICE GROUNDED (NEUTRAL) CONDUCTOR TO AN ACCEPTABLE GROUNDING ELECTRODE AS LISTED BELOW:

- METAL WATER PIPE IN CONTACT WITH THE EARTH FOR 10 FEET OR MORE. INTERIOR METAL WATER PIPE BEYOND 5 FEET FROM THE WATER ENTRANCE SHALL NOT BE USED AS A PART OF THE GROUNDING ELECTRODE SYSTEM OR AS A CONDUCTOR TO INTERCONNECT THOSE ELECTRODES.
- BARE #4 CONDUCTOR AT LEAST 20 FEET IN LENGTH AND NEAR THE BOTTOM OF THE CONCRETE FOUNDATION (WITHIN 2 INCHES), OR 1/2-INCH REINFORCING STEEL OR RODS AT LEAST 20 FEET IN LENGTH (ONE CONTINUOUS LENGTH OR SPLICED TOGETHER)
- BARE #2 CONDUCTOR ENCIRCLING BUILDING AT LEAST 2 1/2 FEET IN THE GROUND (SPLICED TOGETHER AT EACH END).

TYPICAL POWER RISER DIAGRAM (ONLY REPLACE PANELS)

PRIVATE RESIDENCE
5058 CENTRAL AVE SE
WASHINGTON DC

E001

OH
OH ENGINEERING
GROUP, PLLC
1025 Thomas Jefferson St NW
Suite 420 East
Washington, DC 20007
www.OhEngineeringGroup.com

1025 Thomas Jefferson St NW
Suite 420 East
Washington, DC 20007
www.OhiEngineeringGroup.com

3 ELEC 2ND FL PLAN
SCALE: 1/4" = 1'-0"

2 ELEC 1ST FL PLAN
SCALE: 1/4" = 1'-0"

1 ELEC EX. STORAGE
SCALE: 1/4" = 1'-0"

PROJECT No. _____
DATE: _____
SCALE AS SHOWN _____

REVISIONS _____

PRIVATE RESIDENCE
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WASHINGTON DC

AFCI FOR ALL 15 AND 20 AMP BRANCH CIRCUITS PROVIDING POWER TO OUTLETS IN RESIDENTIAL FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR AREAS.

6" PROGRESS LIGHTING P821-AT IC RATED
FIRE RATED RECESS LIGHTS THIS FLOOR ONLY
PROGRAMMABLE THERMOSTAT
REPLACE E.P.
EX. EXTERIOR STORAGE 17'-10"
WINDOW WELL

E002

PRIVATE RESIDENCE
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WASHINGTON DC

E002

MECHANICAL SPECIFICATIONS
GENERAL

- ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE CODES, RULES AND REGULATIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
- MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
- ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR NEW AND THE BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.
- THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, LABOR AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. CONTRACTOR SHALL PAY FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS AS CONSTRUED HEREIN WITHIN THE PERIOD COVERED BY THE GUARANTEE.
- CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION TO DETERMINE FULLY THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION.
- CONTRACTOR SHALL VERIFY SITE BEFORE PURCHASING NEW MATERIALS AND EQUIPMENT OR FABRICATING NEW DUCTWORK.
- LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.
- CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, DUCTS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT BEFORE PROCEEDING. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
- INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
- INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.
- CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL FURNISH SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED. CONTRACTOR LIABLE FOR CUTTING OR PATCHING MADE NECESSARY BY HIS FAILURE TO MAKE PROPER ARRANGEMENTS IN THIS RESPECT.
- DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER AS DIRECTED BY HER OR HIM.
- MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATIONS OF DUCTWORK, CONTRACTOR SHALL CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT AND ANY OTHER DEBRIS.
- TEST ALL SYSTEMS. SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO ENGINEER.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR ORIGINATED MODIFICATIONS TO THE MECHANICAL EQUIPMENT ELECTRICAL INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENT'S "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.

MECHANICAL ABBREVIATIONS

ABV	ABOVE	FT	FEET
AC	AIR CONDITIONER	GD	GRAVITY DAMPER
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AHU	AIR HANDLING UNIT	H	HUMIDIFIER
ADM	ADJUSTABLE DUCT DROP	HP	HORSEPOWER
ARCH	ARCHITECTURAL	IN	INCHES
BJ	BETWEEN JOISTS	KW	KILOWATTS
BTUH	BRITISH THERMAL UNITS PER HOUR	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LF	LINEAR FEET
CLG	CEILING	MCA	MINIMUM CIRCUIT AMPS
COND	CONDENSATE	MBH	THOUSAND BTU PER HOUR
CONDENSATE	CONDENSATE	MBD	OPENED BLADE DAMPER
CONT	CONTINUATION	PB	PISTON
CP	CONDENSATE PUMP	BWJ	RUN BETWEEN JOISTS
CU	CONDENSING UNIT	RLA	RATED LOAD AMPS
DB	DRY BULB	SA	SUPPLY AIR
DIA	DIA METER	SF	SUPPLY FAN
DN	DOWN DRAVING	SL	SOUND LINING
DWG	DRAWING	SP	SURFACE PRESSURE
EA	EACH	SQ	SQUARE
EAT	ENTERING AIR TEMPERATURE	TP	TYPICAL
EF	EXHAUST FAN	V	VOLTS
ESP	EXTERNAL STATIC PRESSURE	VTR	VENT THRU ROOF
EXH	EXHAUST	W/	WITH
'F'	DEGREES FAHRENHEIT	WB	WET BULB
FL	FLUID	WG	WATER GAUGE
FLA	FLOOR LOAD AMPS	FSR	FLOOR SUPPLY REGISTER
FPM	FEET PER MINUTE	CSR	CEILING SUPPLY
FR	FLOOR REGISTER	WG	WALL

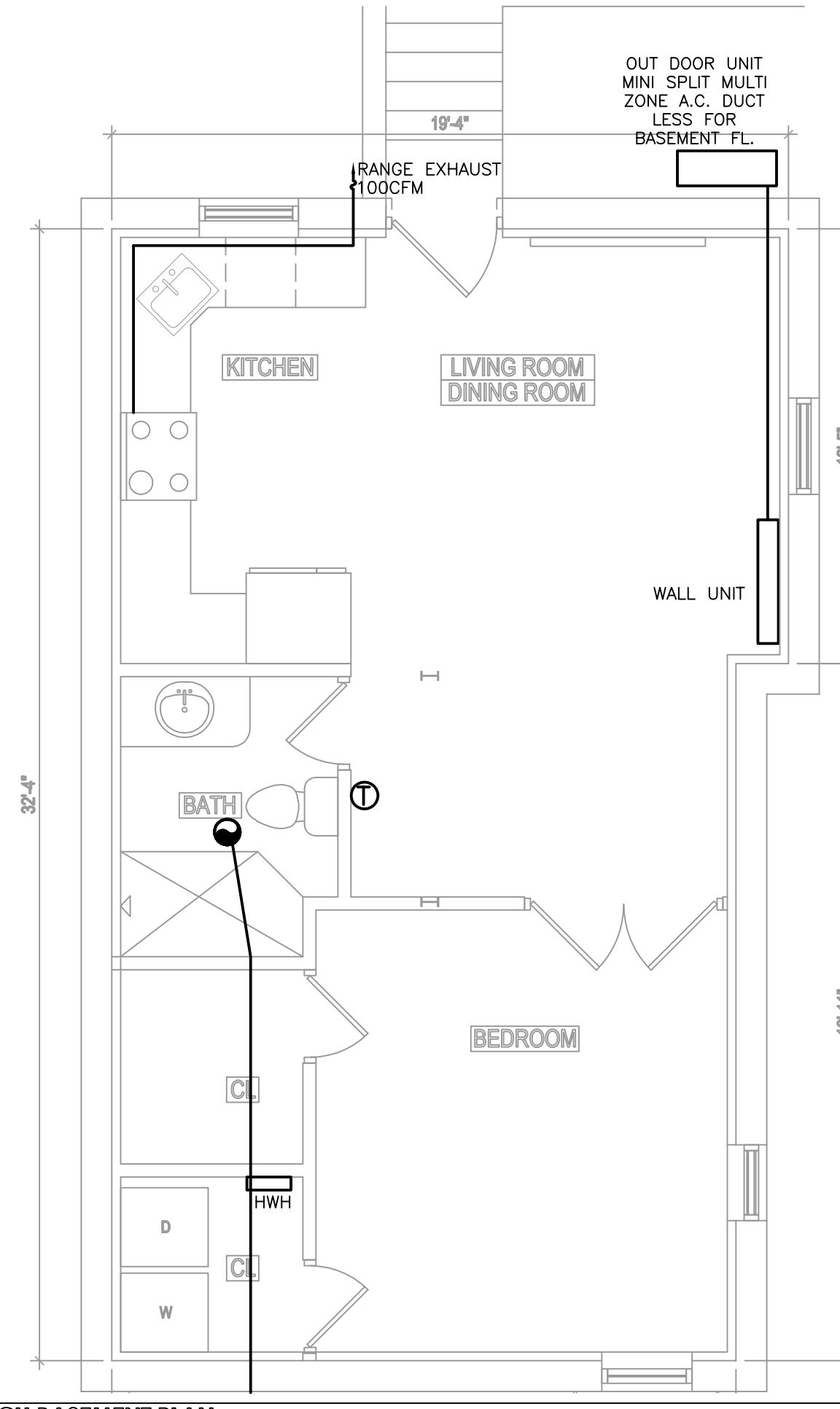
MECHANICAL SYMBOLS

<input checked="" type="checkbox"/>	SUPPLY AIR DEVICE	<input type="circle"/>	THERMOSTAT
<input type="checkbox"/>	RETURN AIR DEVICE	<input checked="" type="circle"/>	ROUND
<input type="circle"/>	Flexible Connection	<input type="checkbox"/>	EXISTING
<input type="checkbox"/>	ELBOW WITH TURNING VAVES		
+	FLOW OF AIR		

NOTES:

- THE ANNULAR SPACE AT DUCT WHEN THEY PENETRATING A NON-FIRE-RESISTANCE RATED HORIZONTAL ASSEMBLY OR A SMOKE BARRIER SHALL BE FILLED TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION WITH A FILL, VOID OR CAVITY MATERIAL THAT IS TESTED AND CLASSIFIED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.
- FIRE DAMPER SHALL BE USED IF DUCT PENETRATING A FIRE-RESISTANCE-RATED HORIZONTAL ASSEMBLY OR SMOKE BARRIERS.

1 HR RATED HORIZONTAL ASSEMBLY
1HR FIRE UL NO. L501
BASEMENT CEILING 5/8"
FIRE SHIELD GYPSUM BOARD DRYWALL
EXHAUST FAN & DUCT BULKHEAD



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5058 CENTRAL AVE SE
WASHINGTON DC

REVISIONS
PROJECT No.
DATE:
SCALE AS SHOWN
MECH NOTES & FLOOR PLAN

M001

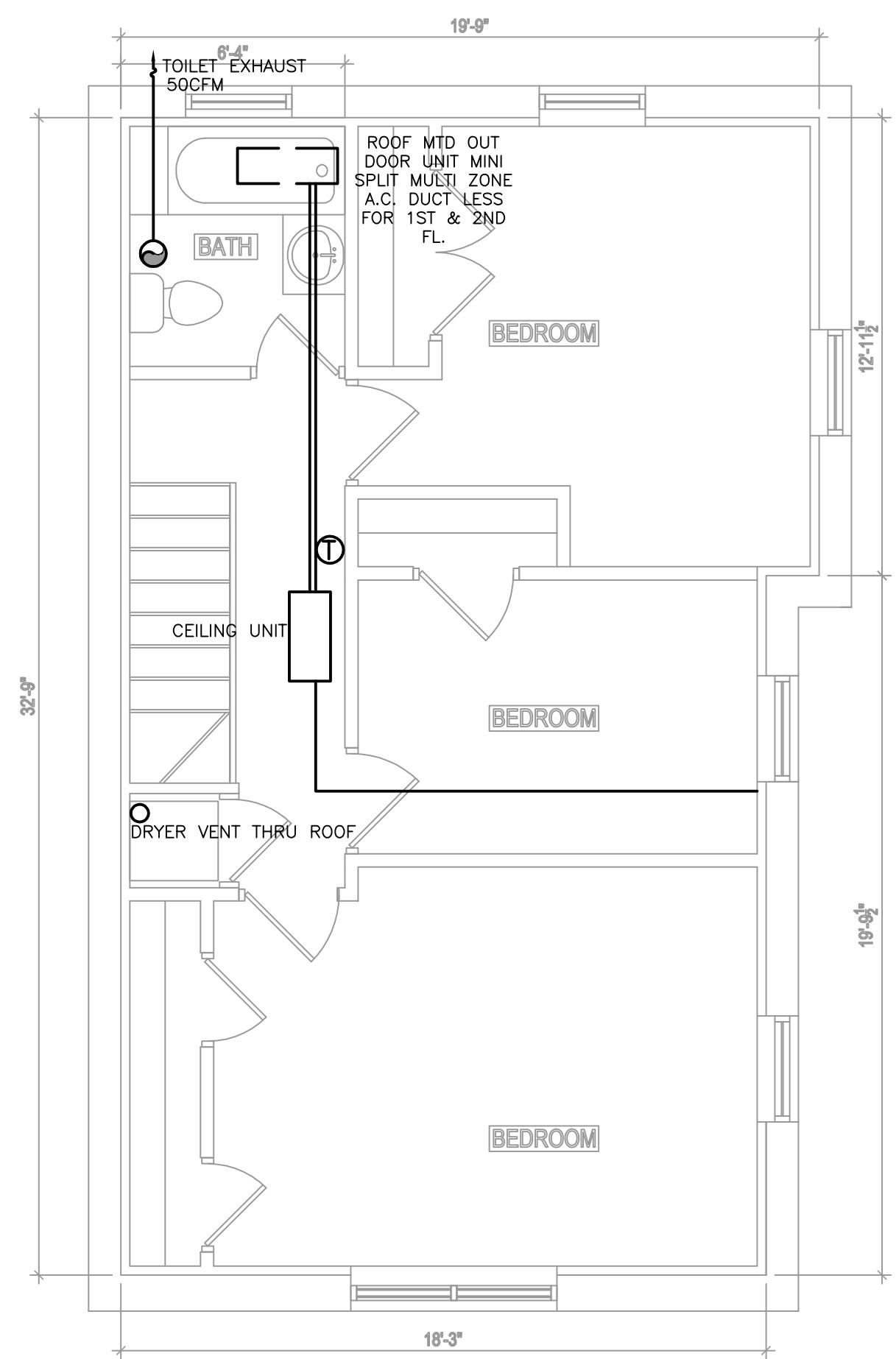
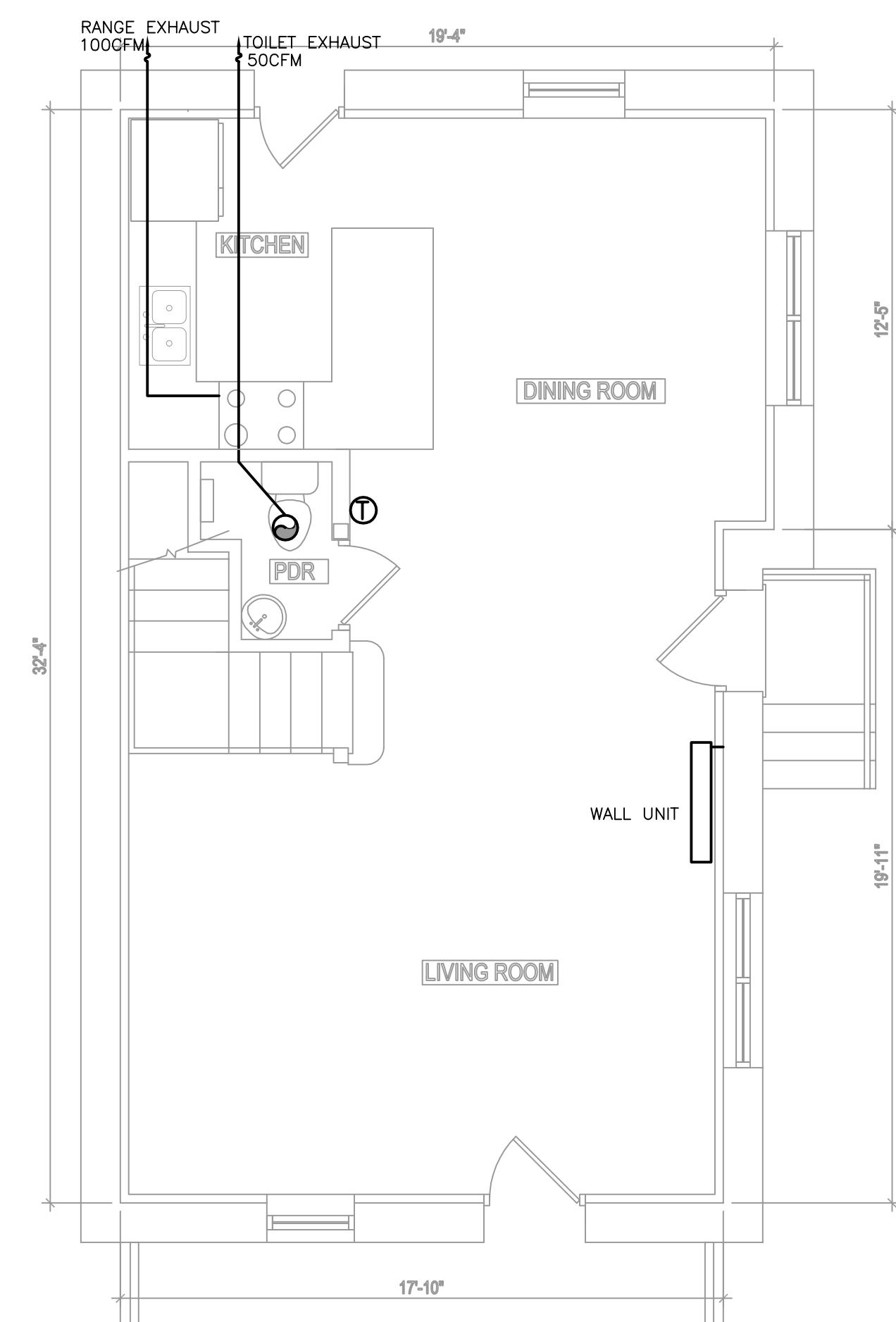
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WASHINGTON DC

REVISIONS

PROJECT No.
DATE:
SCALE AS SHOWN

MECH FLOOR
PLANS

M002



SYMBOLS AND ABBREVIATION

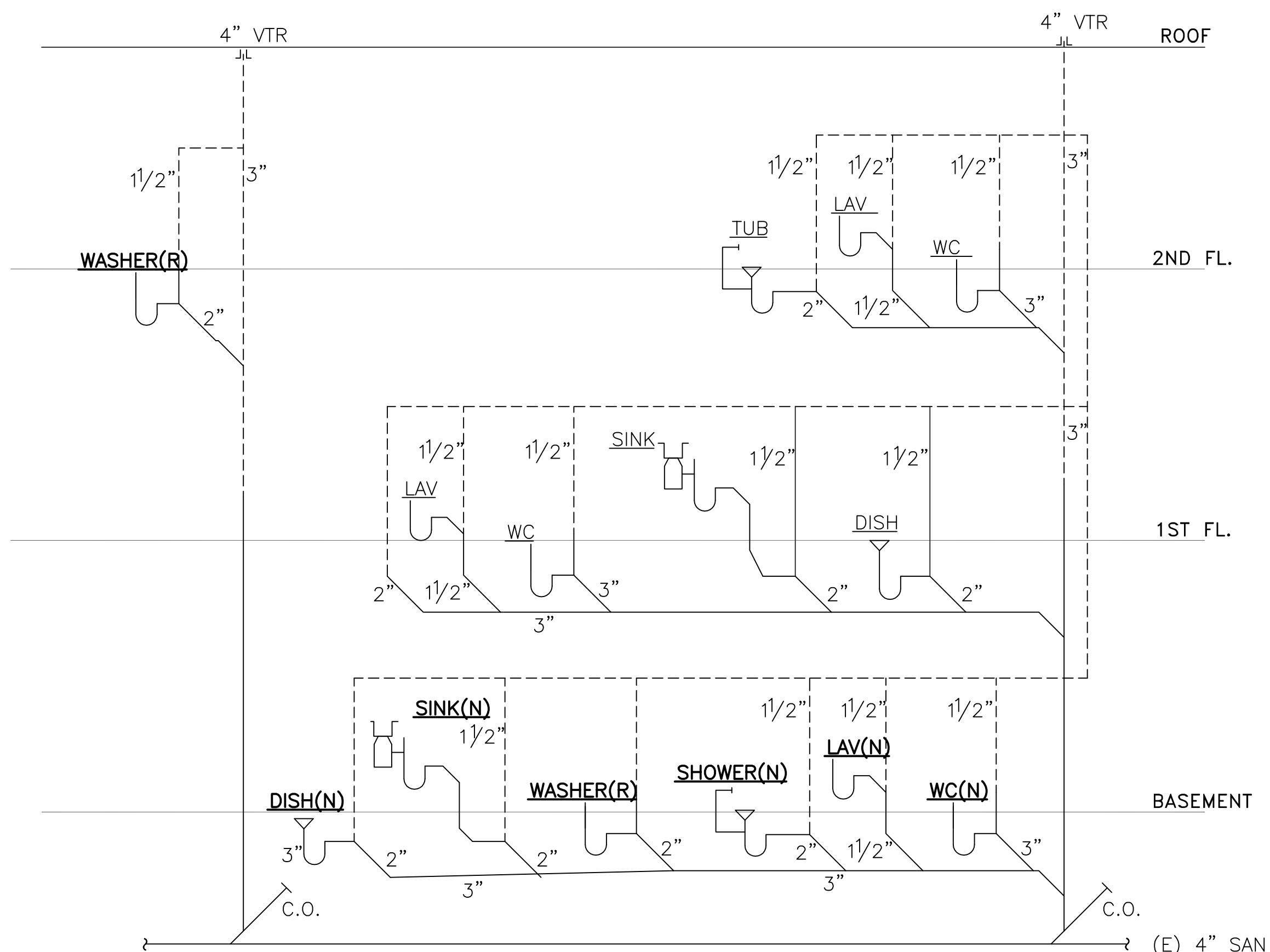
SAN	SANITARY OR WASTE PIPE	A.F.F	ABOVE FINISH FLOOR
V	VENT	VTR	VENT THRU ROOF
CW	COLD WATER	FLR	FLOOR
HW	HOT WATER	CLG	CEILING
HWR	HOT WATER RETURN	AP	ACCESS PANEL
	RISER DOWN	DN	DOWN
	RISER UP(ELBOW)	DWG	DRAWING
	UNION	FFE	FINISH FLOOR ELEVATION
	RISER OR DROP	SFU	SANITARY FIXTURE UNIT
	BRANCH-TOP CONNECTION	PRV	PRESSURE RELIEF VALVE
	BRANCH-BOTTOM CONNECTION	DISP	SANITARY FIXTURE UNIT
SA	SHOCK ABSORBER	PRV	PRESSURE RELIEF VALVE
VB	VACUUM BREAKER	E	EXISTING
	BALL VALVE	N	NEW
	GATE VALVE	SP	SUMP PUMP
	CHECK VALVE	R	RELOCATED
HB/WH	HOSE BIBB/WALL HYDRANT		
CO	CLEANOUT		
	POINT OF CONNECTION BETWEEN EXISTING AND NEW WORK.		

PLUMBING GENERAL NOTES

- ALL WATER PIPING SHOWN ARE BELOW FLOOR, UNLESS OTHERWISE NOTED.
- ALL SANITARY AND STORM PIPING 4" AND LARGER BE SLOPED AT $\frac{1}{8}$ " PER FOOT. AND 3" SMALLER SHALL BE $\frac{1}{4}$ " PER FOOT.
- ALL VENT PIPING SHALL BE PITCHED FOR DRAINAGE.
- ALL EQUIPMENT PHYSICAL DIMENSIONS SHOWN ON PLUMBING DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL EQUIPMENT DIMENSIONS IN ACCORDANCE WITH MANUFACTURE'S SHOP DRAWINGS AND COORDINATION WITH OTHER TRADES.
- THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF PLUMBING WORK.
- THE CONTRACTOR SHALL PROVIDE AND COORDINATE ALL PLUMBING CONNECTIONS BETWEEN DEVICES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- ALL PIPING SHALL BE SUPPORTED IN SUCH MANNER AS ELIMINATE SWAY AND VIBRATION
- CONTRACTOR SHALL COORDINATE SANITARY AND STORM DRAIN LOCATIONS ON THE PLUMBING DRAWINGS WITH CIVIL DRAWINGS.
- CONTRACTOR SHALL COORDINATE ROOF AND OTHER DRAIN LOCATIONS ON THE ARCH. DRAWINGS WITH CIVIL DRAWINGS.
- THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE EXACT LOCATION. AND PIPE SIZES OF EXISTING SANITARY WASTE COLD WATER AND HOT WATER PIPING.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	WATER		REMARKS
				CW	HW	
P1	LAVATORY (N)	1 1/2"	1 1/2"	1/2"	1/2"	
P2	WATER CLOSET (N)	3"	2"	1/2"	---	
P3	SHOWER (N)	2"	1 1/2"	3/4"	3/4"	MIXING VALVE W/ SHOWER HEAD
P4	WASHER BOX (R)	2"	1 1/2"	1/2"	1/2"	HOSE AND VALVE
P5	KITCHEN SINK (N)	1 1/2"	1 1/2"	1/2"	1/2"	
P6	DISH WASHER (N)	2"	1 1/2"	1/2"	1/2"	WASTE SPILL INTO WASHER BOX
P7	KITCHEN SINK	1 1/2"	1 1/2"	1/2"	1/2"	
P8	DISH WASHER	2"	1 1/2"	1/2"	1/2"	
P9	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P10	WATER CLOSET	3"	2"	1/2"	---	
P11	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P12	WATER CLOSET	3"	2"	1/2"	---	
P13	BATH TUB	2"	1 1/2"	3/4"	3/4"	



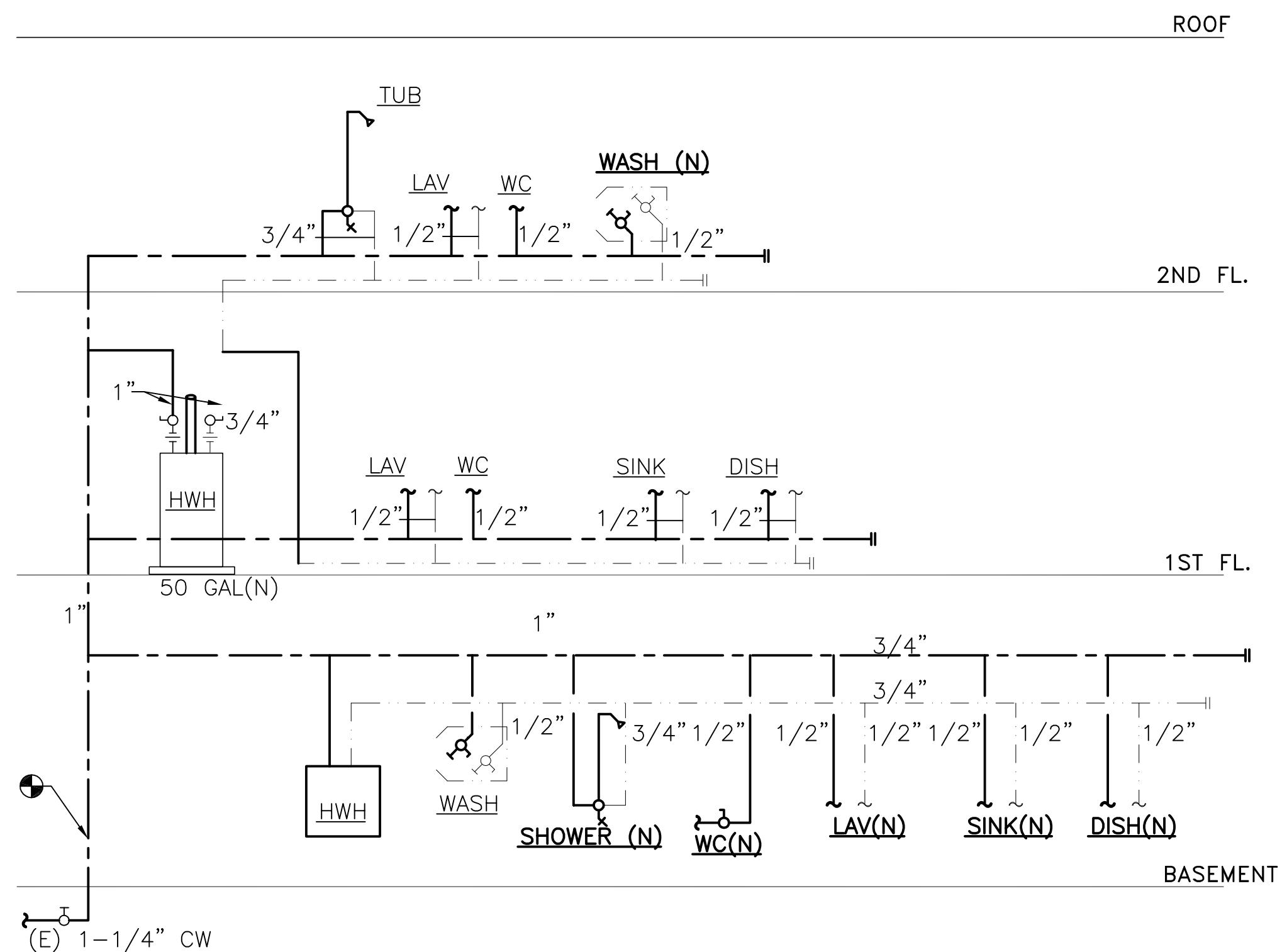
SANITARY RISER DIAGRAM

NOT TO SCALE

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 REVISIONS
 PROJECT No.
 DATE:
 SCALE AS SHOWN
 PLUMBING NOTES & DIAGRAM

P001

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DOMESTIC WATER PIPING DIAGRAM

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REVISIONS

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DATE: _____
SCALE AS SHOWNPLUMBING
DIAGRAM

P002

