

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with MWBE/DBE/ADA/Title IX Permits are required for trade work, e.g. Electrical or Plumbing

CUNNINGHAM | QUILL ARCHITECTS PLLC
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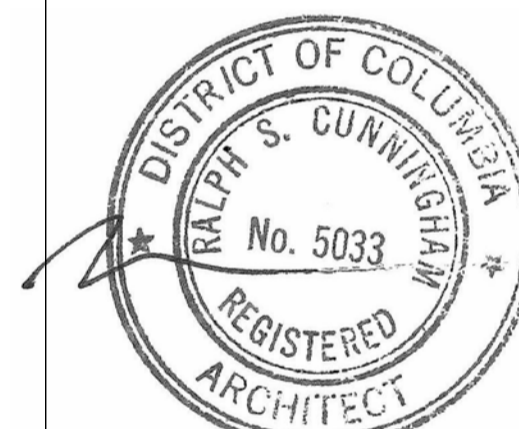
OWNER:
 D.C. Department of General Services
 1250 U Street, NW, 4th Floor
 Washington, DC 20009
 Phone: (202) 727-2800

STRUCTURAL ENGINEER:
 Yun Associates, LLC
 1775 K Street, NW, Suite 220
 Washington, DC 20006
 Phone: 202-849-3075

MEP ENGINEER:
 Sully & Associates International
 3040 Williams Drive, Suite 600
 Fairfax, VA 22031
 Phone: 703-691-2115

CIVIL ENGINEER:
 Wiles Mensch Corporation
 510 8th Street, SE
 Washington, DC 20003
 Phone: 202-638-4040 x255

LANDSCAPE ARCHITECT:
 Landscape Architecture Bureau
 714 7th Street, SE
 Washington, DC 20003
 Phone: 202-543-6550



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Issues / Revisions

11/20/2018	Schematic Design Submission
01/17/2019	Foundation to Grade Permit

Ward 1 STFH & PSH
 2500 14th Street NW
 Washington DC 20009

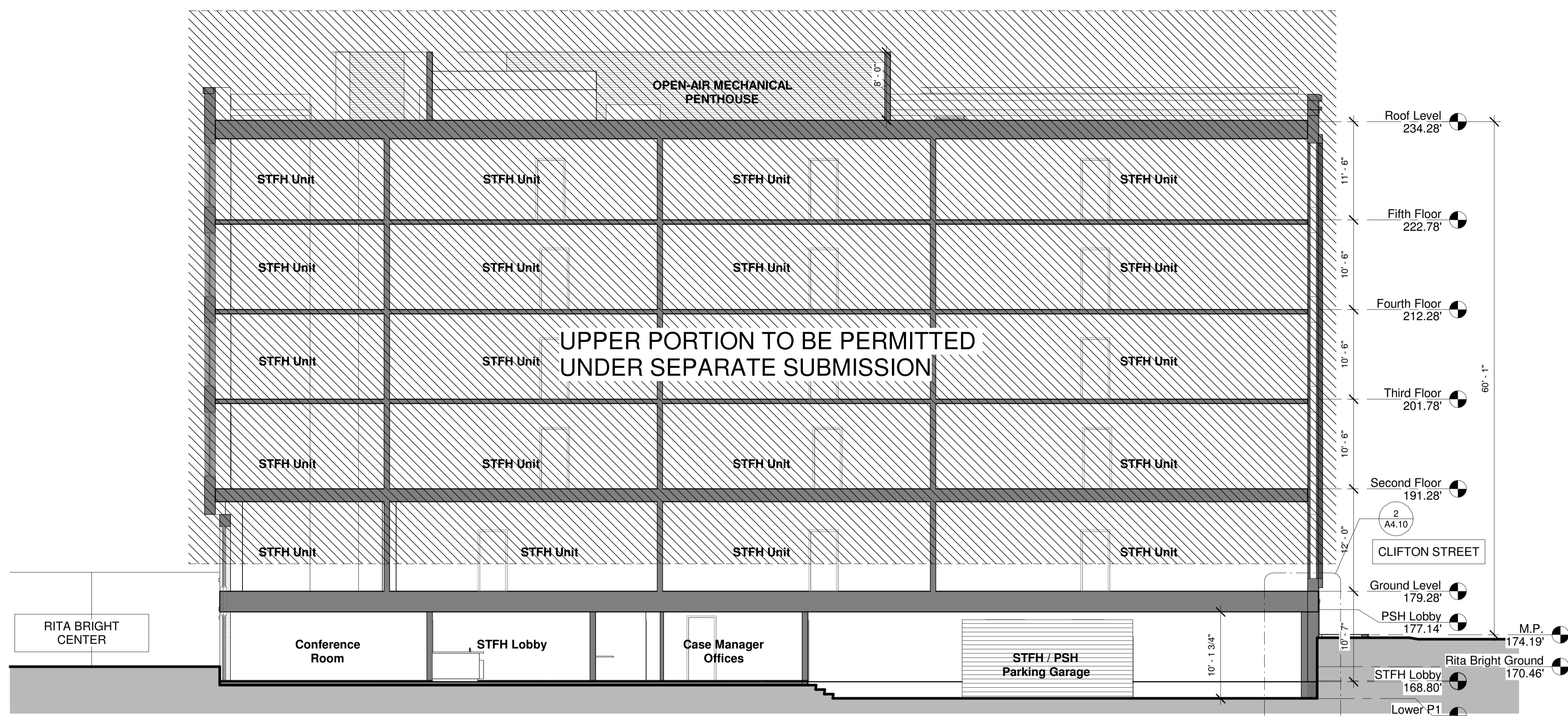
CQA#21811

Drawing Title

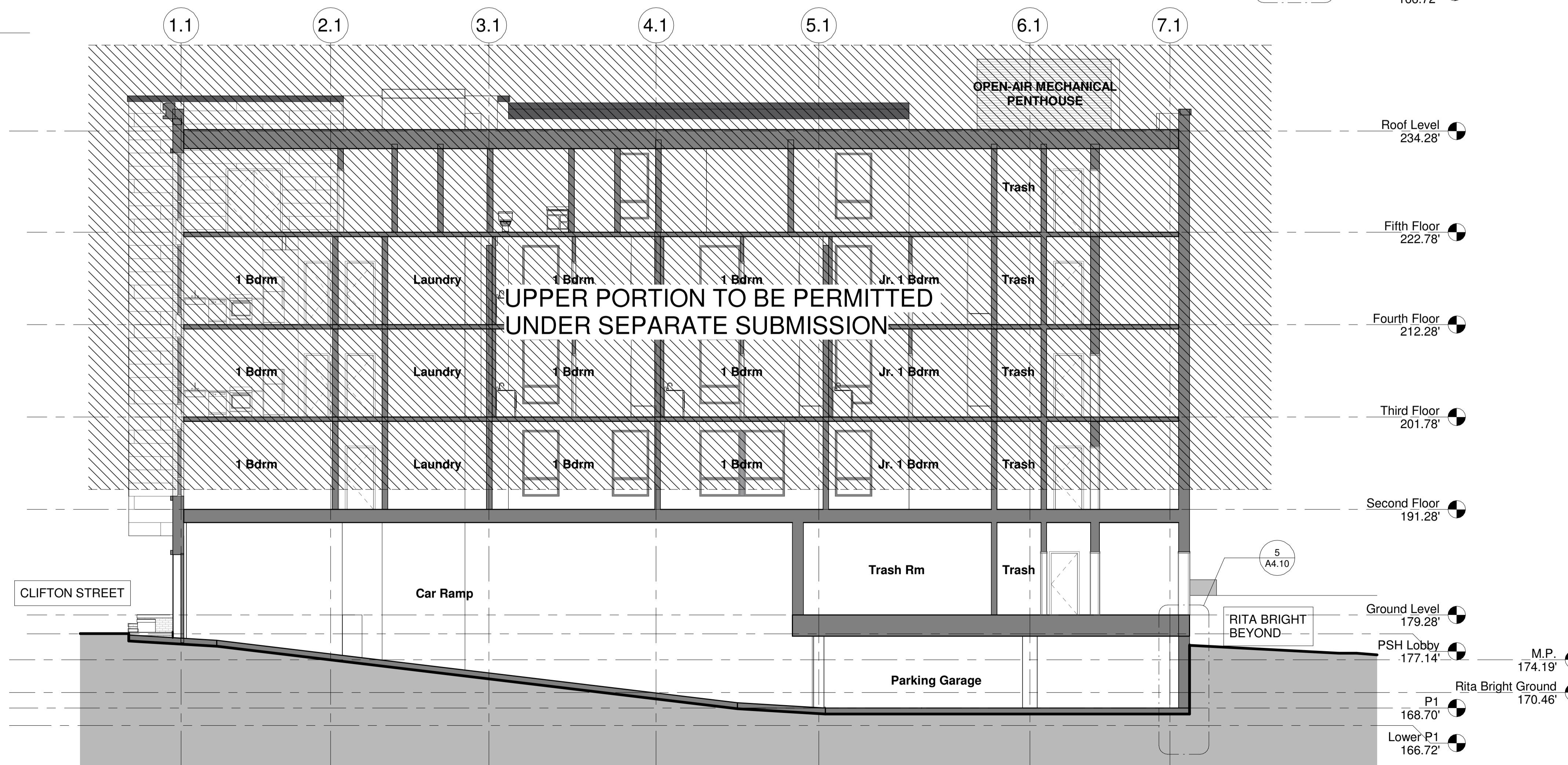
Building Sections

Scale: 1/8" = 1'-0"
 Date: 1/17/19
 Drawn By: CQA
 Checked By: CQA

A4.00
 Building Section
 District of Columbia
 CASE NO. 20183
 EXHIBIT NO. 63



1 Section A
 1/8" = 1'-0"



2 Section B
 1/8" = 1'-0"

ISSUED FOR PERMIT - DEPARTMENT OF GENERAL SERVICES PROJECT

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the approval of DCRA. Trade Permits are required for trade work, e.g. Electrical or Plumbing

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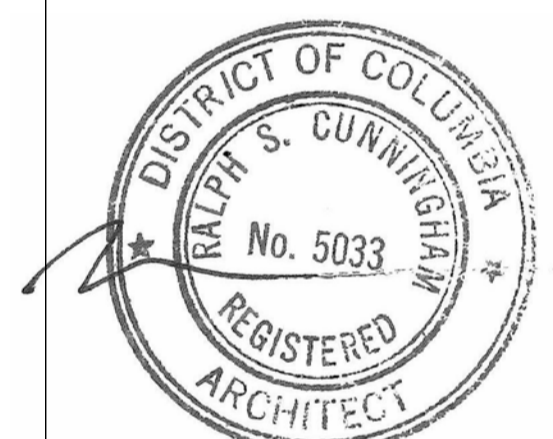
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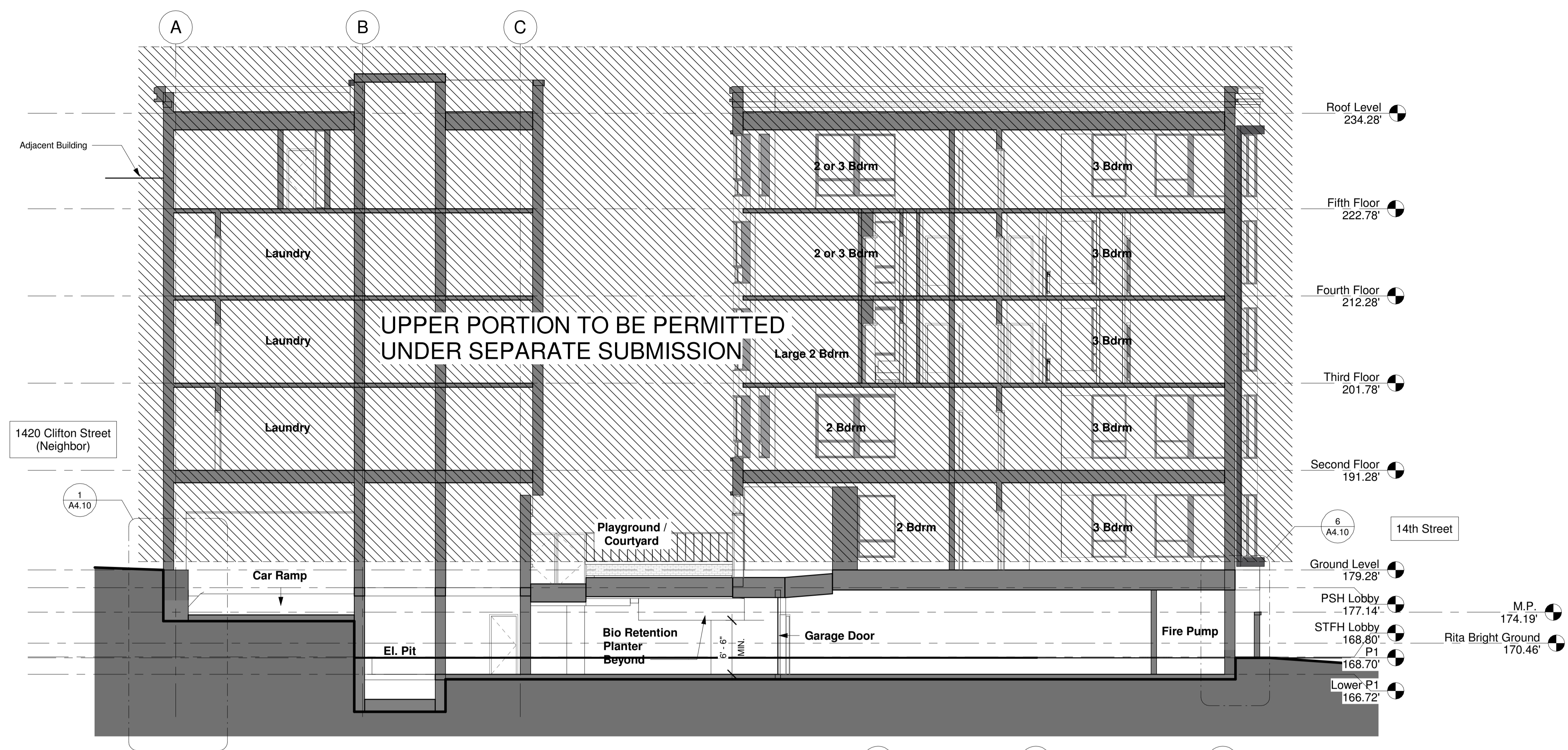
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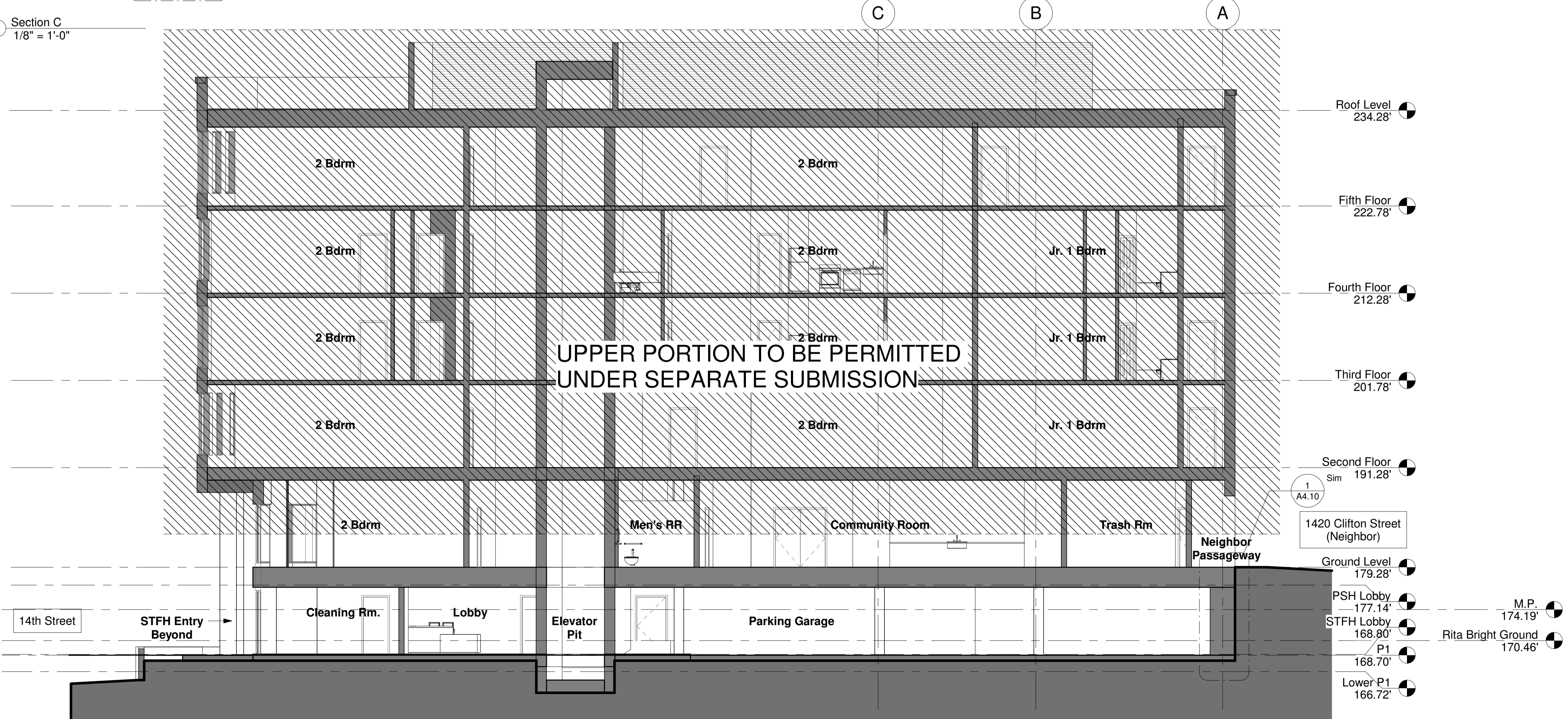
Building Sections

Scale: 1/8" = 1'-0"
 Date: 1/17/19
 Drawn By: COA
 Checked By: COA

A4.01



1 Section C
 1/8" = 1'-0"



2 Section D
 1/8" = 1'-0"

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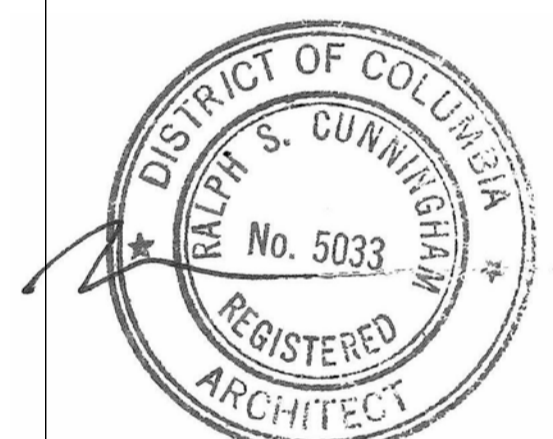
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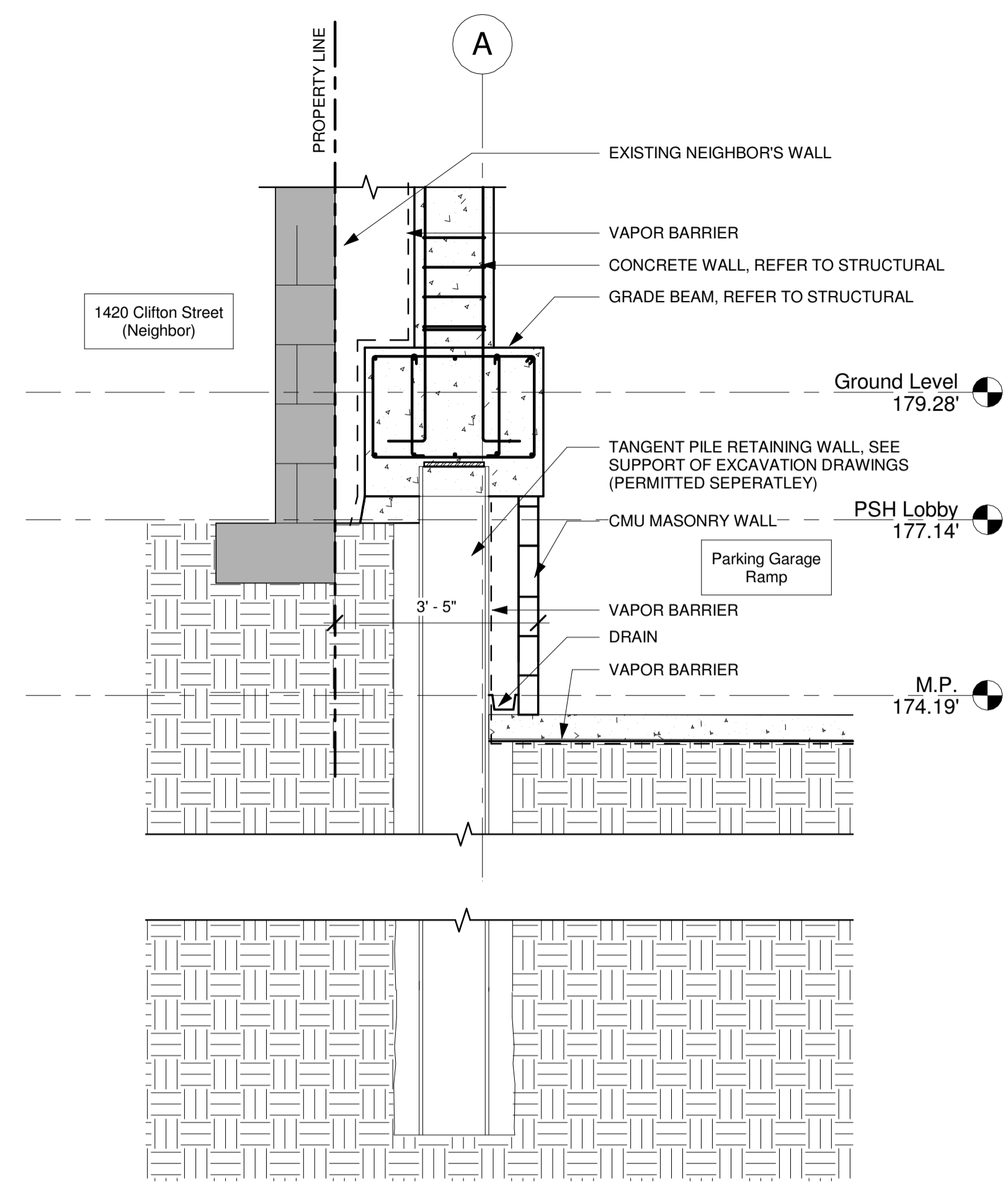
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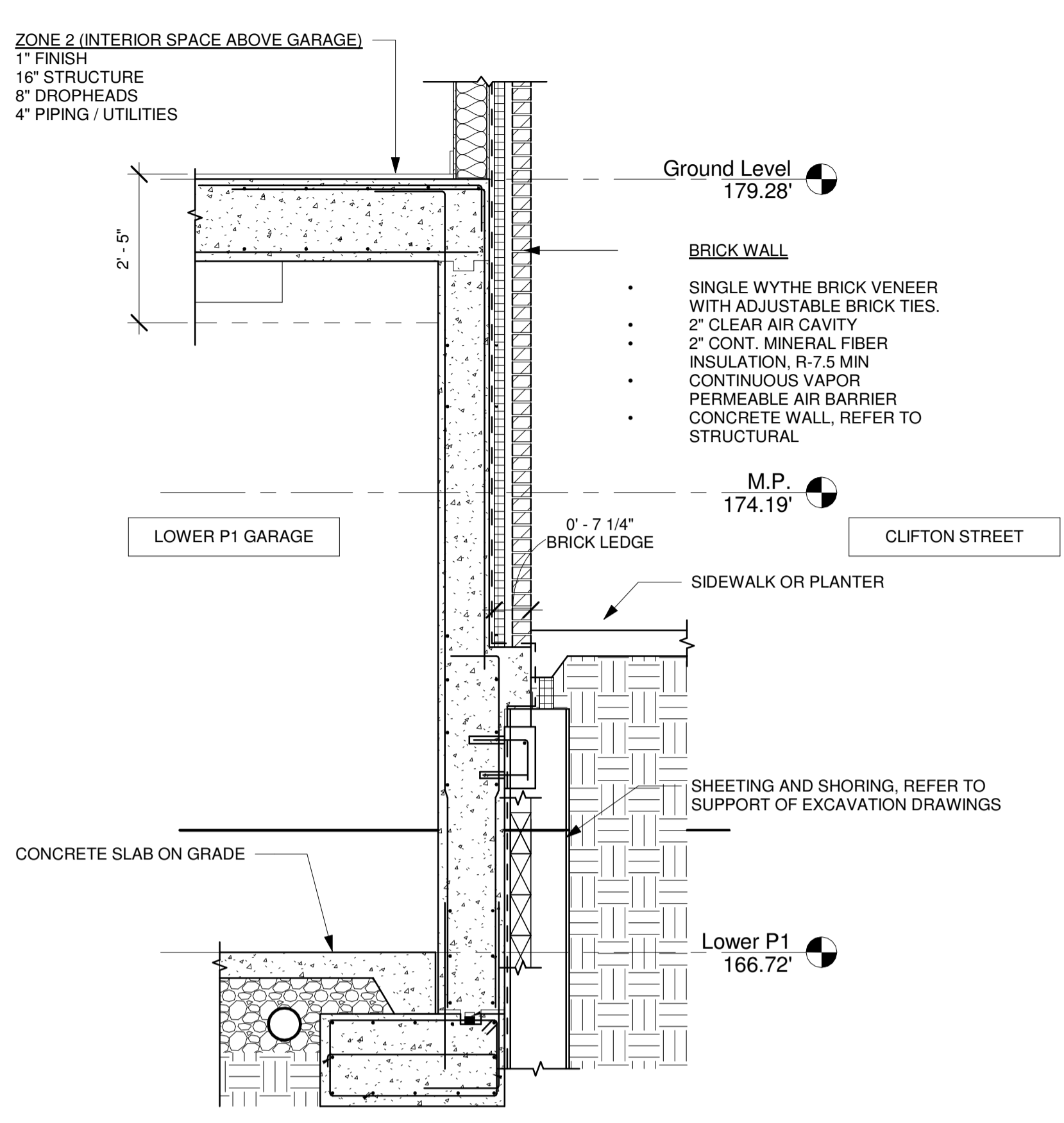
Wall Sections and Details @ Grade

Scale	1/2" = 1'-0"	Drawn By	CQA
Date	1/17/19	Checked By	CQA

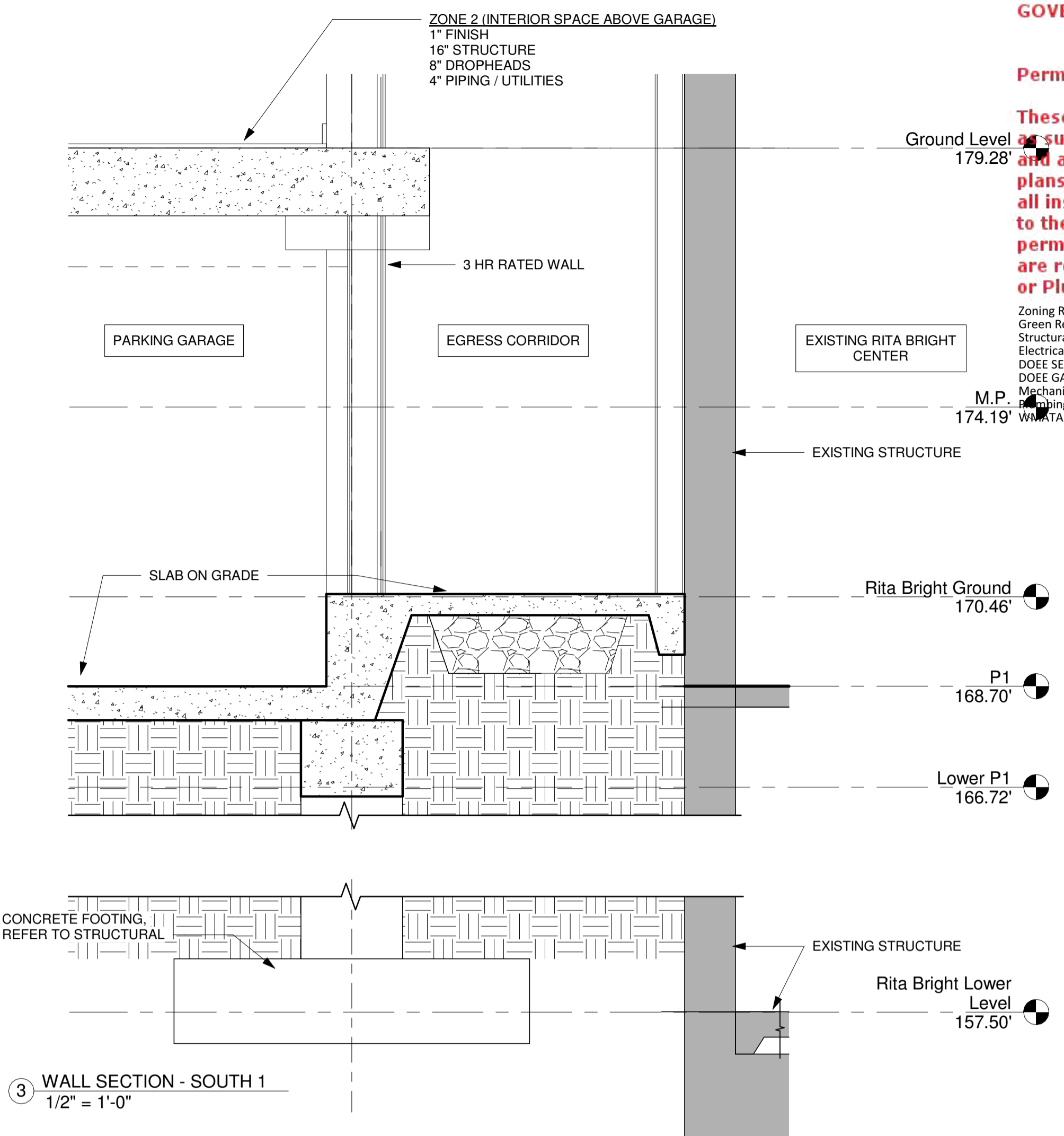
A4.10



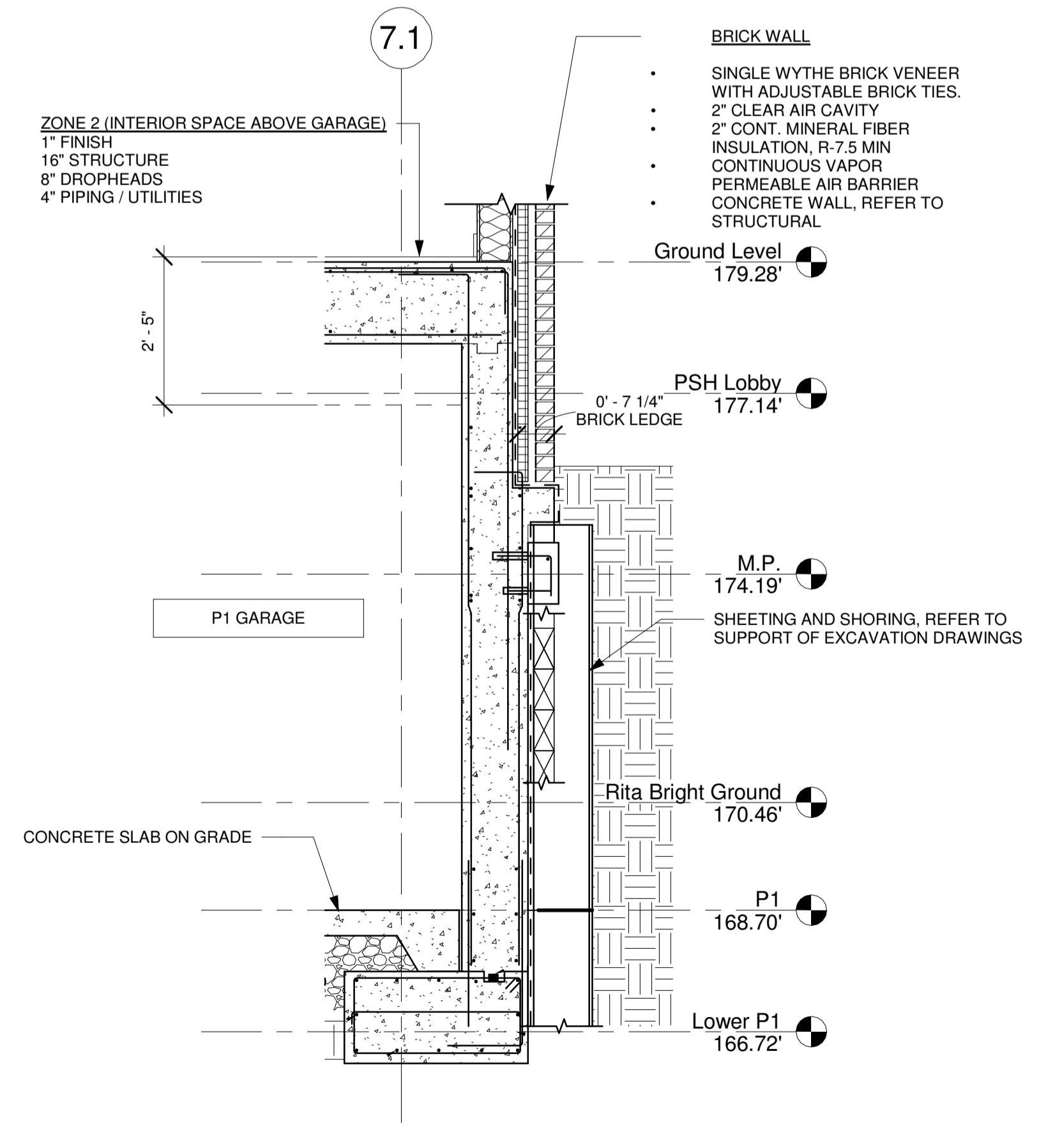
1 WALL SECTION - WEST
 1/2" = 1'-0"



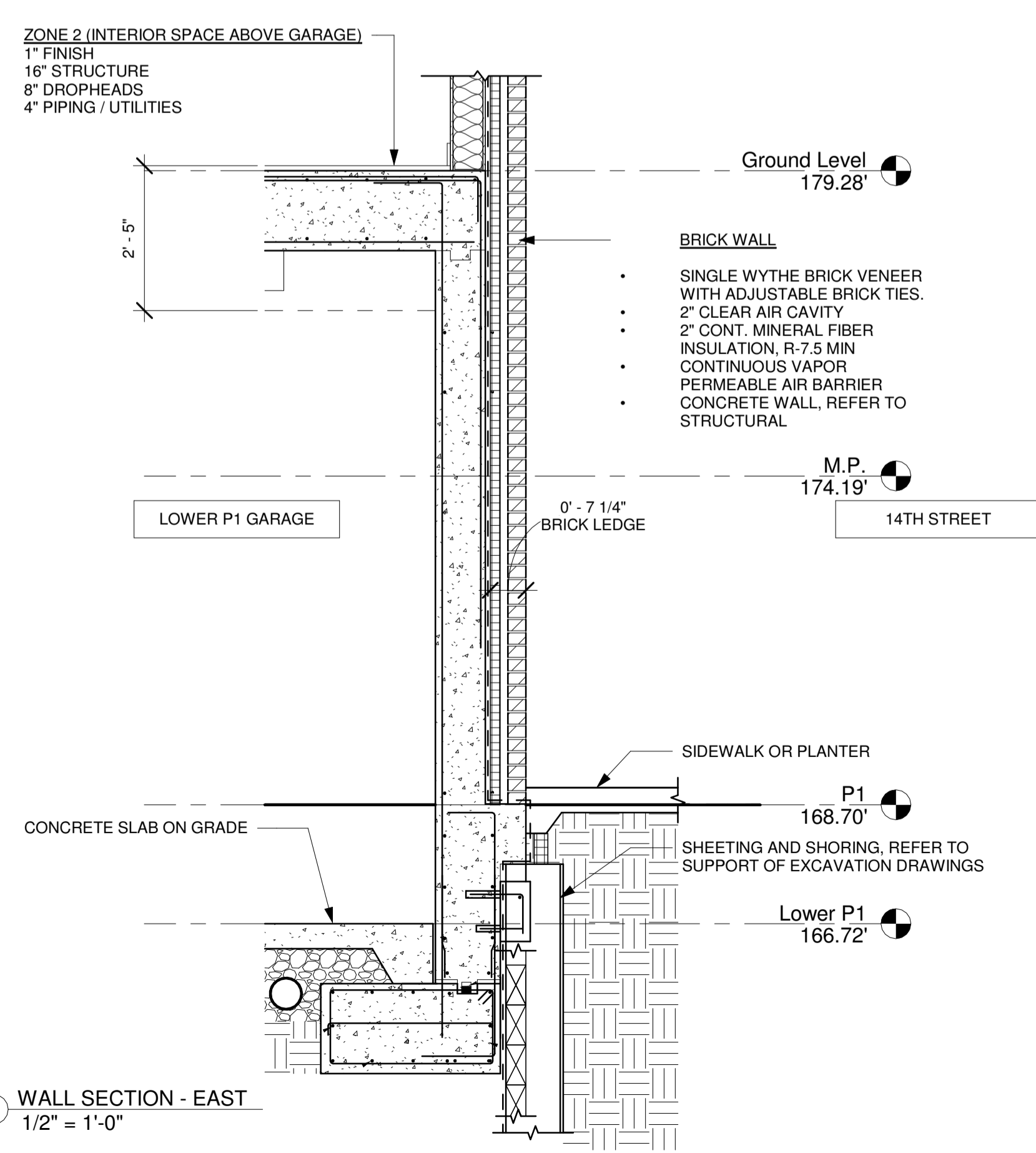
2 WALL SECTION - NORTH 1
 1/2" = 1'-0"



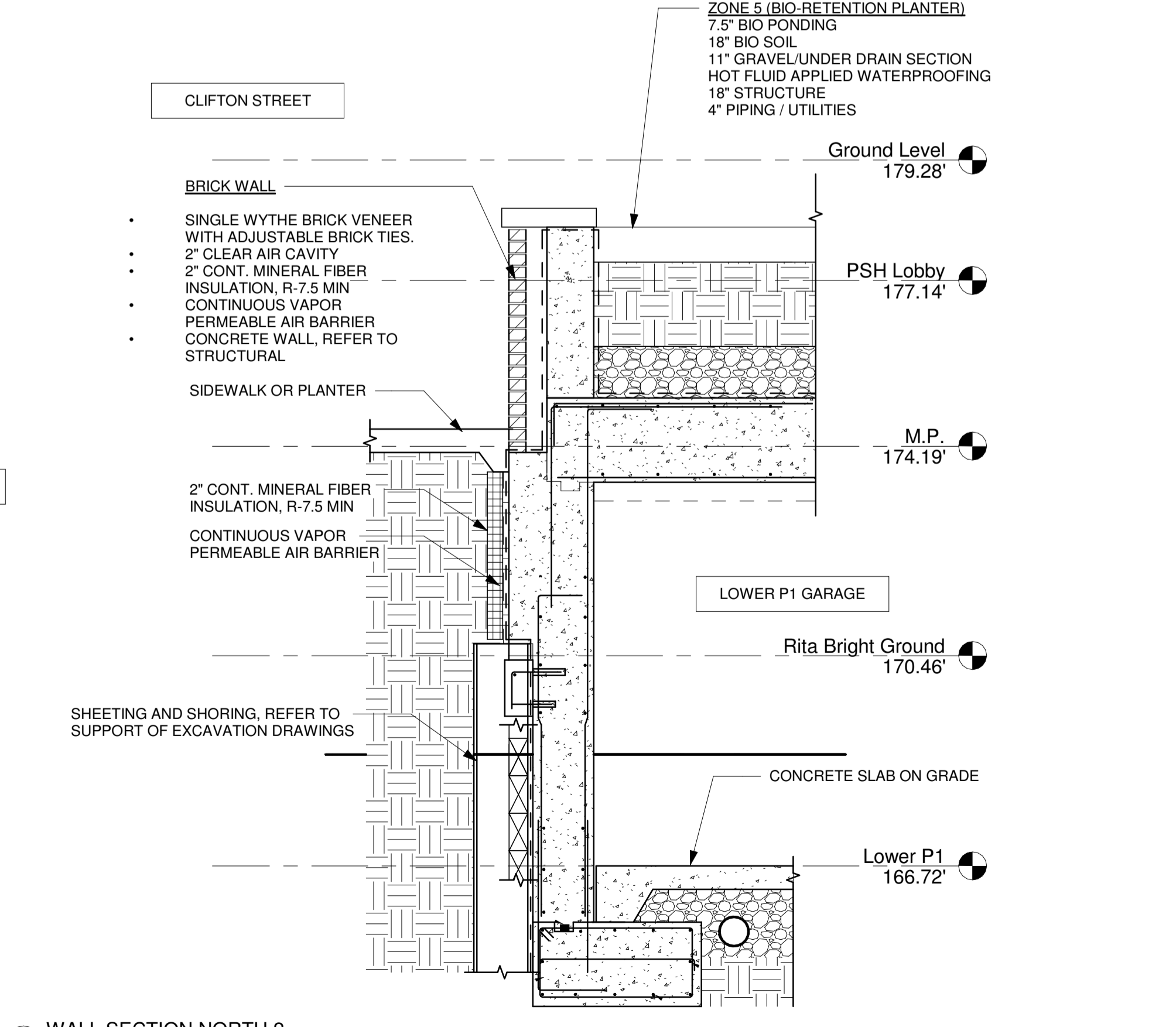
3 WALL SECTION - SOUTH 1
 1/2" = 1'-0"



5 WALL SECTION - SOUTH 2
 1/2" = 1'-0"



6 WALL SECTION - EAST
 1/2" = 1'-0"



4 WALL SECTION NORTH 2
 1/2" = 1'-0"

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CUNNINGHAM | QUILL ARCHITECTS PLLC
 Zoning Review - Brittany Bullock - 05-21-2019
 Green Review - Kristian Hoffland - 05-21-2019
 Structural Review - Andrew Wiley - 05-21-2019
 Electrical Review - Alma Mahmood - 05-21-2019
 DOE SE-SW Review - Nykia Barnes - 05-21-2019
 DOE GAR Review - Nykia Barnes - 05-21-2019
 Mechanical Review - Alec Petrillo-Groh - 05-21-2019
 Plumbing Review - Alec Petrillo-Groh - 05-21-2019
 WMATA Review - Robert Simpkins - 05-21-2019
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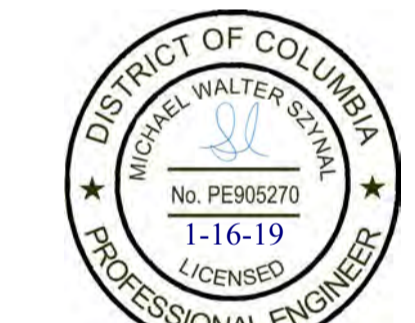
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Issues / Revisions

11/20/2018	Schematic Design Submission
01/17/2019	Foundation to Grade Permit

DCRA NO:

DC WATER MAXIMO NO:

DOEE SWM PLAN NO: 6231

Ward 1 STFH & PSH
 2500 14th Street NW
 Washington DC 20009

CQA # 21811

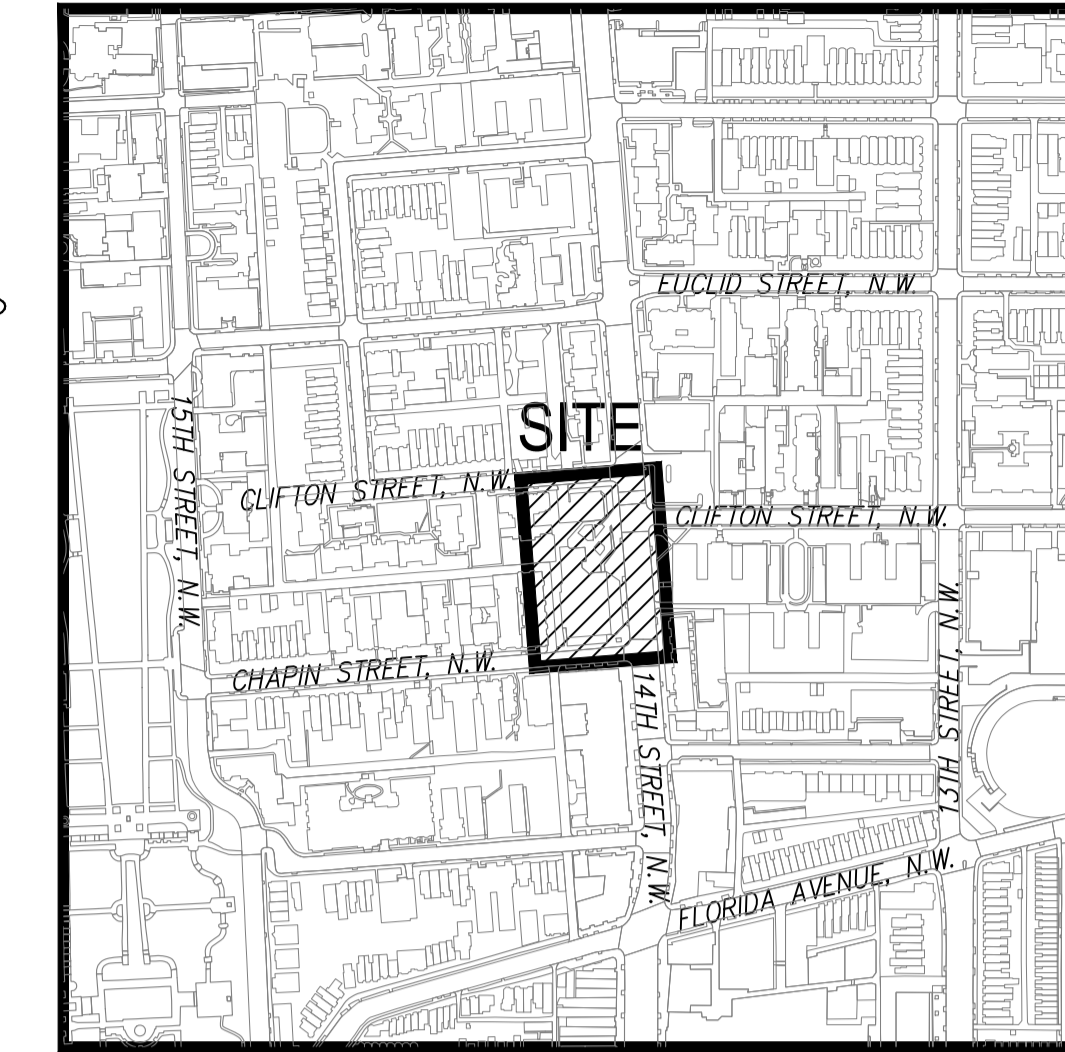
Drawing Title

NOT FOR CONSTRUCTION

Notes, Legend and Abbreviations

Scale	Drawn By	BG
Date	Checked By	MS
12/15/18		

CIV0001



VICINITY MAP

SCALE: 1"=400'
 SQUARE: 2662 LOT: 205
 ADDRESS: 2500 14TH STREET, NW
 WASHINGTON, DC.

PROJECT NARRATIVE:

THE PROJECT IS LOCATED AT 2500 14TH STREET NW ON A LOT OF RECORD. THE SITE CONSISTS OF AN EXISTING USE 2-STORY RECREATION CENTER AND PARKING LOT. THE EXISTING RECREATION CENTER IS TO REMAIN AND IS NOT PART OF THIS PROJECT.

THE PROJECT PROPOSES THE CONSTRUCTION OF A 6-STORY (5 ABOVE GRADE, 1 BELOW GRADE PARKING LEVEL) 50 UNIT TEMPORARY FAMILY HOUSING FACILITY ON THE NORTH PORTION OF THE LOT, REPLACING THE EXISTING PARKING LOT. THE PROJECT ALSO INCLUDES NEW SITE, UTILITY, AND STORMWATER FEATURES TO SERVE THE NEW BUILDING.

STORMWATER MANAGEMENT FOR THE SITE WILL BE ACHIEVED THROUGH THE USE OF GREEN ROOF AND BIO-RETENTION PLANTERS. EROSION AND SEDIMENT CONTROL WILL BE ACHIEVED THROUGH THE USE OF SILT FENCE, SUPER SILT FENCE, STRAW BALE, STABILIZED CONSTRUCTION ENTRANCE, AND INLET PROTECTION. THE SITE WILL ALSO INCLUDE TREE PROTECTION AND SAFETY FENCE FOR SITE PROTECTION.

THE PROJECT PROPOSES A NEW 4" SANITARY CONNECTION TO A DC WATER COMBINED SANITARY MAIN ON 14TH STREET, A NEW 8" STORM DRAIN CONNECTION TO A DC WATER COMBINED SANITARY MAIN ON 14TH STREET, A NEW 3" DOMESTIC WATER SERVICE AND 6" FIRE SERVICE PROVIDED FROM AN EXISTING 8" MAIN LOCATED IN CLIFTON STREET NW. ALL OF THE SERVICES WHICH CONNECT TO THE EXISTING BUILDING ARE TO REMAIN AND ARE NOT PART OF THIS PROJECT. THIS PROJECT PROPOSES THE REMOVAL OF AN EXISTING STORM LATERAL THAT WILL BE CUT AND CAPPED AT THE MAIN AND ABANDONED IN PLACE OR REMOVED AS REQUIRED.

CIVIL DRAWING INDEX:

- CIV0001 NOTES, LEGEND AND ABBREVIATIONS
- CIV0002 EXISTING CONDITIONS PLAN
- CIV0003 DEMOLITION AND SEDIMENT CONTROL PLAN
- CIV0004 EROSION AND SEDIMENT CONTROL PLAN
- CIV0005 EROSION AND SEDIMENT CONTROL NOTES
- CIV0006 SITE PLAN
- CIV0007 UTILITY PLAN
- CIV0008 GRADING PLAN
- CIV0009 STREET LIGHT PLAN
- CIV0010 STREET LIGHT SCHEMATIC PLAN
- CIV0011 UTILITY PROFILES
- CIV0012 EROSION AND SEDIMENT CONTROL DETAILS
- CIV0013 SITE DETAILS
- CIV0014 UTILITY DETAILS
- CIV0015 UTILITY DETAILS
- CIV0016 UTILITY DETAILS
- CIV0017 DC WATER FORMS
- CIV0018 STORM WATER MANAGEMENT PLAN-EXISTING DRAINAGE DIVIDES
- CIV0019 STORM WATER MANAGEMENT PLAN-PROPOSED DRAINAGE DIVIDES
- CIV0020 STORM WATER MANAGEMENT PLAN-CALCULATIONS
- CIV0021 STORM WATER MANAGEMENT PLAN-NOTES
- CIV0022 STORM WATER MANAGEMENT PLAN-NOTES
- CIV0023 STORM WATER MANAGEMENT PLAN-PROW

DCRA NO:

DC WATER MAXIMO NO:

DOEE SWM PLAN NO: 6231

DC/WATER GENERAL CONSTRUCTION NOTES:

- CONTACT NOTIFY THE FOLLOWING DC WATER DEPARTMENTS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION:
 - CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING.
 - DEPARTMENT OF WATER SERVICES AT 202-612-3400 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.
 - DEPARTMENT OF SEWER SERVICES AT 202-264-3862 OR 3873 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF SEWER UTILITY CONSTRUCTION.
- STANDARDS: ALL CONSTRUCTION, MATERIALS, AND APPURTENANCES SHALL COMPLY WITH THE LATEST EDITIONS OF THE DC WATER PROJECT DESIGN MANUAL, STANDARD DETAILS & DESIGN GUIDELINES, AND SPECIFICATIONS.
- LEAD SERVICE REPLACEMENT: IF THIS PROJECT INCLUDES THE REPLACEMENT OF A WATER MAIN THAT HAS EXISTING LEAD WATER SERVICE LATERALS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DC WATER CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST 90 DAYS PRIOR TO CONSTRUCTION TO ALLOW ADEQUATE TIME TO INITIATE STANDARD LEAD SERVICE REPLACEMENT PROTOCOL. LATERAL REPLACEMENT INCLUDES THE FULL LENGTH OF PIPE IN PUBLIC SPACE.
- OWNER RESPONSIBILITY: THE OWNER IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH EXCAVATION, INSTALLATION, AND RESTORATION OF PUBLIC SPACE TO PERFORM A WATER/SEWER CONNECTION/ABANDONMENT. ONCE THE CONTRACTOR HAS OBTAINED A PUBLIC SPACE PERMIT HE/SHE MUST THEN CONTACT DC WATER PRIOR TO PERFORMING THE EXCAVATION TO INSTALL/INSPECT THE UTILITY WORK. THE OWNER SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO EXISTING STRUCTURES AND UTILITIES CAUSED BY CONSTRUCTION ACTIVITY.
- DC WATER RESPONSIBILITY: DC WATER IS ONLY RESPONSIBLE FOR INSTALLATION OF SMALL WATER SERVICE TAPS (2" DIAMETER AND LESS) TO THE PUBLIC MAIN, SMALL WATER SERVICE TAP REMOVALS FROM THE PUBLIC MAIN, FURNISHING & INSTALLING THE METER IN PUBLIC SPACE, AND INSPECTION OF WORK PERFORMED ON THE PUBLIC SYSTEMS.
- MISS UTILITY: CONTACT MISS UTILITY AT 800-257-7777 48 HOURS BEFORE ANY DIGGING.
- PLAN SET: A SET OF SIGNED & SEALED AND DC WATER STAMPED PLANS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY.
- ABANDONMENTS: THE OWNER MUST PHYSICALLY DISCONNECT EXISTING WATER, SEWER, AND STORM LATERALS THAT ARE TO BE ABANDONED AT THEIR CONNECTION TO THE PUBLIC MAIN.
- UNMETERED WATER: THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY'S WATER SYSTEM, INCLUDING CONNECTIONS BYPASSING METERS FOR TESTING ON-SITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER.
- PRESSURE TESTING AGAINST VALVES: PRESSURE TESTING AGAINST VALVES WILL NOT BE ALLOWED.
- WATER METER INSTALLATION: TO SCHEDULE THE INSTALLATION OF A DOMESTIC WATER METER CONTACT PERMIT OPERATIONS AT 202-646-8600. DC WATER WILL FURNISH AND INSTALL THE METER AFTER THE CONNECTION TO THE MAIN HAS BEEN MADE AND THE METER PIT/VAULT HAS BEEN INSTALLED.
- CROSS CONTAMINATION CONTROL: ASSE 1048 CERTIFIED BACKFLOW PREVENTION ASSEMBLIES ARE REQUIRED ON ALL FIRE SERVICES AND ARE TO BE LOCATED INSIDE THE BUILDING (UNLESS AN EXTERNAL LOCATION IS NECESSARY OR REQUIRED BY DC WATER) WHERE IT IS SUPPLIED, OWNED, OPERATED, AND MAINTAINED BY THE OWNER. DC WATER DOES NOT FURNISH NOR INSTALL FIRE DOUBLE CHECK DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES.
- UTILITY SERVICE DISRUPTIONS: PHASE ALL UTILITY WORK TO MAINTAIN UTILITY SERVICES TO THE SURROUNDING AREA DURING ALL PHASES OF CONSTRUCTION. LIMIT REQUIRED UTILITY SHUT-DOWNS IN NUMBER AND DURATION. COORDINATE THESE SHUT DOWNS WITH DC WATER CONSTRUCTION INSPECTION STAFF.
- WATER VALVE OPERATION: THE CONTRACTOR IS REQUIRED TO COORDINATE WITH DC WATER FOR ALL NECESSARY WATER MAIN SHUT DOWNS WITH ADEQUATE ADVANCED NOTICE. ONLY DC WATER EMPLOYEES MAY SHUT DOWN A PUBLIC WATER MAIN. A CERTIFIED PLUMBER IS ONLY AUTHORIZED TO TURN OFF VALVES INSIDE METER PITS.
- WATER GATE VALVE LOCATION: LOCATE GATE VALVES FOR DOMESTIC AND FIRE SERVICES AS CLOSE TO THE PUBLIC WATER MAIN TIE AS POSSIBLE. HOWEVER, IF NECESSARY ADJUSTMENTS ARE REQUIRED DUE TO CONFLICTS, COORDINATE WITH A DC WATER INSPECTOR.
- MATERIAL: THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP CUTS TO THE APPROPRIATE DC WATER OFFICE FOR APPROVAL OR OBTAINING A DC WATER APPROVAL STAMP FOR ALL WORK IN PUBLIC SPACE IN ADVANCE OF INSTALLATION. ONLY APPROVED MATERIALS MAY BE USED.
- TEMPORARY CONDITIONS MINIMUM COVER: A NOMINAL FOUR FEET OF COVER IS REQUIRED FOR ALL WATER MAINS AT FINAL GRADE. COVER OF LESS THAN FOUR FEET REQUIRES DC WATER APPROVAL.
- AS-BUILT: DEVELOPERS, CONTRACTORS AND/OR PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO THE APPROPRIATE DC WATER INSPECTOR(S) FOR REVIEW AND APPROVAL. UPON COMPLETION OF INSTALLATION OF NEW SERVICES OR ABANDONMENT OF EXISTING SERVICES, WHEN THE FINAL AS-BUILT IS APPROVED ALL DEPOSITS WILL BE RETURNED TO THE APPLICANT. SEE DC WATER AS-BUILT REQUIREMENTS FOR ADDITIONAL INFORMATION.
- CONFLICTS: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITIES. A MINIMUM OF ONE FOOT VERTICAL AND FIVE FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM ANY UTILITIES AND PUBLIC WATER AND SEWER MAINS.
- FIRE HYDRANT USE: THE USE OF A FIRE HYDRANT AS A WATER SOURCE IS PROHIBITED UNLESS A PERMIT HAS BEEN OBTAINED FROM DC WATER FOR USE OF A SPECIFIC HYDRANT(S). DAILY OPERATIONAL USE PERMITS CAN BE OBTAINED FROM THE DC WATER PERMIT OPERATIONS DEPARTMENT 202-646-8600.
- FIRE HYDRANT STATUS: THE CONTRACTOR SHALL NOTIFY FEMS AT 202-277-1889, PRIOR TO TAKING ANY FIRE HYDRANT OUT OF SERVICE OR RENDERING IT INOPERABLE. A FIRE HYDRANT INACCESSIBLE FOR ANY REASON, FEMS IS ALSO TO BE PROVIDED WITH THE LOCATION OF ANY NEW INSTALLATION OF PRIVATE FIRE HYDRANTS.
- DC WATER SAFETY OFFICE: THE DC WATER SAFETY OFFICE CAN BE CONTACTED AT 202-787-4350.
- SEWER BACKWATER PREVENTION: THE PLUMBING SYSTEM MUST BE IN COMPLIANCE WITH SECTION 715 OF THE 2008 INTERNATIONAL PLUMBING CODE WHICH STATES A BACKWATER IS VALVE IS REQUIRED FOR ALL PLUMBING FIXTURES BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER.

- MISS UTILITY:** CONTACT MISS UTILITY AT 800-257-7777 48 HOURS BEFORE ANY DIGGING.
- PLAN SET:** A SET OF SIGNED & SEALED AND DC WATER STAMPED PLANS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY.
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- MATERIAL:** THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP CUTS TO THE APPROPRIATE DC WATER OFFICE FOR APPROVAL OR OBTAINING A DC WATER APPROVAL STAMP FOR ALL WORK IN PUBLIC SPACE IN ADVANCE OF INSTALLATION. ONLY APPROVED MATERIALS MAY BE USED.
- TEMPORARY CONDITIONS MINIMUM COVER:** A NOMINAL FOUR FEET OF COVER IS REQUIRED FOR ALL WATER MAINS AT FINAL GRADE. COVER OF LESS THAN FOUR FEET REQUIRES DC WATER APPROVAL.
- AS-BUILT:** DEVELOPERS, CONTRACTORS AND/OR PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO THE APPROPRIATE DC WATER INSPECTOR(S) FOR REVIEW AND APPROVAL. UPON COMPLETION OF INSTALLATION OF NEW SERVICES OR ABANDONMENT OF EXISTING SERVICES, WHEN THE FINAL AS-BUILT IS APPROVED ALL DEPOSITS WILL BE RETURNED TO THE APPLICANT. SEE DC WATER AS-BUILT REQUIREMENTS FOR ADDITIONAL INFORMATION.
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- BRACING AND TIEBACKS:**
- NO RACKERS OR HEEL BLOCKS SHALL BEAR IN THE ZONE OF INFLUENCE OF ANY DC WATER UTILITY.
 - NO TIEBACKS SHALL BE INSTALLED WITHIN FIVE FEET OF ANY DC WATER UTILITY.
 - ANY TIEBACK CROSSING OVER A DC WATER PIPELINE OR STRUCTURE SHALL BE COMPLETELY UNLOADED UPON COMPLETION OF THE WORK.
- CONSTRUCTION MONITORING:**
- ANY EXCAVATION OR CONSTRUCTION OCCURRING WITHIN THE ZONE OF INFLUENCE OF DC WATER UTILITIES SHALL BE MONITORED AS FOLLOWS:
- CONDUCT DETAILED PRE- AND POST-CONSTRUCTION SURVEYS OF UTILITIES AND STRUCTURES, TO INCLUDE VIDEO INSPECTION AND/OR PHOTOGRAPHS AS REQUIRED BY THE ENGINEER.
 - INSTALL VERTICAL AND HORIZONTAL DEFLECTION MONITORING STATIONS ALONG THE UTILITY ALIGNMENT, OR AT LOCATION DESIGNATED BY THE ENGINEER, TO DETECT SETTLEMENT OR LATERAL MOVEMENT OF THE UTILITY AND SURROUNDING SOIL.
 - MONITORING STATIONS SHALL OCCUR AT A MINIMUM OF 50 FEET ON CENTER FOR THE LENGTH OF DISTURBANCE WITHIN THE ZONE OF INFLUENCE, OR AT CLOSER SPACING IF DIRECTED BY THE ENGINEER.
 - MONITORING STATIONS GENERALLY SHALL CONSIST OF TARGETS AND BENCHMARKS THAT ARE READ BY STANDARD OPTICAL SURVEY EQUIPMENT. IF WARRANTED, INCLINOMETER STATIONS PLACED ALONG DEEP EXCAVATIONS SHALL SUPPLEMENT MONITORING STATIONS.
 - MONITORING STATIONS SHALL BE READ AND RECORDED AT LEAST ONCE EACH WEEK, OR MORE FREQUENTLY AS DIRECTED BY THE ENGINEER, AND COPIES OF ALL RECORDS SHALL BE REPORTED TO DC WATER. REPORTS SHALL DOCUMENT THE LOCATION OF EACH STATION, THE DATE AND TIME OF EACH OBSERVATION, AND SHALL PROVIDE A CONTINUOUS HISTORY OF READINGS FOR EACH STATION, INCLUDING BASELINE READINGS.
 - MONITORING SHALL CONTINUE UNTIL THE EXCAVATION HAS BEEN PERMANENTLY STABILIZED.
 - ANY HORIZONTAL OR VERTICAL MOVEMENT WITHIN THE ZONE OF INFLUENCE THAT EXCEEDS 0.01 FT. SHALL BE IMMEDIATELY REPORTED TO DC WATER.
 - GROUNDWATER LEVEL MONITORING: DC WATER UTILITIES SHALL BE MONITORED BY INSPECTING OBSERVATION WELLS AND PIEZOMETERS, AND SHALL BE MAINTAINED TO PREVENT SETTLEMENT DUE TO DEWATERING.

VIBRATION MONITORING:

- WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE INSTRUMENTATION AND A QUALIFIED OPERATOR TO MONITOR VIBRATIONS PROVIDED BY THE INSTALLATION OF PILES AND SHEET PILING.
- THE EQUIPMENT OPERATOR SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THE DESIGN AND OPERATION OF VIBRATION MONITORING EQUIPMENT AND INTERPRETATION OF THE RESULTS.
- VIBRATIONS SHALL BE MONITORED BY MEASURING THE PEAK PARTICLE VELOCITY AT THE CLOSEST POINT ON THE UTILITY TO THE LOCATION OF WORK. THE MEASURED PEAK PARTICLE VELOCITY SHALL NOT EXCEED THE FOLLOWING:

FREQUENCY (IN/SEC)	PEAK PARTICLE VELOCITY
LESS THAN 10 HZ	0.5
10-40 HZ	0.75
GREATER THAN 40 HZ	2.00

URBAN FORESTRY NOTES:

TREE PLANTING SHALL COMPLY WITH THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS NO. 611.10 AND 611.11. DECIDUOUS TREES SHALL ONLY BE PLANTED BETWEEN OCTOBER 15 AND MAY 1 AS PER THE SPRING AND FALL PLANTING SEASON DATES. COMPANION PLANTS (I.E. PERENNIALS, GRASSES, BALS, SHRUBS, ETC.) TO BE INSTALLED IN TREE BOXES MUST CONFORM TO DODD MINIMUM HEIGHT STANDARDS TO PRESERVE CURB LINES. HAVE A SHALLOW ROOT SYSTEM, AND BE PLANTED AT MINIMUM 2 FEET FROM THE ROOT FLARE (CROWN) OF THE STREET TREE. DO NOT USE EXISTING SOIL ON-SITE OR AMEND AS TOPSOIL. PEAT MOSS IS NOT ALLOWED FOR USE AS A SOIL AMENDMENT. FINISH OR FILL EXISTING HOLES WITH A 2-3" LAYER OF MULCH, BUT DO NOT PLACE UP AGAINST OR MOUND AROUND ROOT FLARE. CONTACT RESERVE MAINTAINMENT WHEN THE STREET TREES ARE READY TO BE PLANTED, PROVIDING AT LEAST 48 HOURS NOTICE.

STANDARDS FOR SHEETING AND SHORING ADJACENT TO DC WATER UTILITIES:

- DEFINITIONS:**
- FOR THE PURPOSE OF THIS STANDARD, THE "ZONE OF INFLUENCE" SHALL BE DEFINED AS THE MESS OF SOIL INSCRIBED BY A 1:4 DRAWN TANGENT TO AND PROJECTING UPWARD FROM THE OUTERMOST PROJECTION OF A COUROUT AT AN ANGLE OF 45 DEGREES WITH THE HORIZONTAL.
 - THE "ENGINEER" SHALL BE DEFINED AS DIRECTOR, DEPARTMENT OF ENGINEERING AND TECHNICAL SERVICES, D.C. WATER, OR THE AUTHORIZED REPRESENTATIVE THEREOF.
- POINTS OF CONTACT:**
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DC WATER 24-HOUR EMERGENCY LINE AT (202) 612-3400 OF ANY EMERGENCY AFFECTING THE CONDITION OR STABILITY OF ITS UTILITIES.
 - THE CONTRACTOR SHALL NOTIFY DC WATER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION OR CONSTRUCTION. CONTACT DC WATER UTILITY INSPECTOR AT (202) 787-4024.

LOCATION OF DC WATER UTILITIES:

IF REQUIRED BY THE ENGINEER, THE EXACT LOCATION OF DC WATER UTILITIES SHALL BE DETERMINED BY TEST PITTING PRIOR TO INSTALLATION OF SHEETING.

- PILES AND SHEET PILING:**
- ALL PILES INSTALLED BY THE IMPACT DRIVING METHOD WITHIN 50 FEET OF ANY DC WATER UTILITY SHALL BE PRE-ANNEALED TO THE INVERT DEPTH OF THE PIPELINE.
 - NO SHEET PILING SHALL BE INSTALLED BY THE IMPACT DRIVING METHOD WITHIN 50 FEET OF ANY DC WATER UTILITY.
 - SHEET PILING MAY BE INSTALLED WITHIN 50 FEET OF A DC WATER UTILITY BY THE USE OF APPROVED VIBRATION MONITORING EQUIPMENT. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER THAT THE EQUIPMENT DOES NOT EXCEED ACCEPTABLE LIMITS OF VIBRATION BY PROVIDING VIBRATION-MONITORING INSTRUMENTATION LOCATED AT THE SHORTEST DISTANCE FROM THE SHEETING TO THE UTILITY.

- VIBRATION MONITORING:**
- WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE INSTRUMENTATION AND A QUALIFIED OPERATOR TO MONITOR VIBRATIONS PROVIDED BY THE INSTALLATION OF PILES AND SHEET PILING.
 - THE EQUIPMENT OPERATOR SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THE DESIGN AND OPERATION OF VIBRATION MONITORING EQUIPMENT AND INTERPRETATION OF THE RESULTS.
 - VIBRATIONS SHALL BE MONITORED BY MEASURING THE PEAK PARTICLE VELOCITY AT THE CLOSEST POINT ON THE UTILITY TO THE LOCATION OF WORK. THE MEASURED PEAK PARTICLE VELOCITY SHALL NOT EXCEED THE FOLLOWING:
- | FREQUENCY (IN/SEC) | PEAK PARTICLE VELOCITY |
|--------------------|------------------------|
| LESS THAN 10 HZ | 0.5 |
| 10-40 HZ | 0.75 |
| GREATER THAN 40 HZ | 2.00 |

- BRACING AND TIEBACKS:**
- NO RACKERS OR HEEL BLOCKS SHALL BEAR IN THE ZONE OF INFLUENCE OF ANY DC WATER UTILITY.
 - NO TIEBACKS SHALL BE INSTALLED WITHIN FIVE FEET OF ANY DC WATER UTILITY.
 - ANY TIEBACK CROSSING OVER A DC WATER PIPELINE OR STRUCTURE SHALL BE COMPLETELY UNLOADED UPON COMPLETION OF THE WORK.

- CONSTRUCTION MONITORING:**
- ANY EXCAVATION OR CONSTRUCTION OCCURRING WITHIN THE ZONE OF INFLUENCE OF DC WATER UTILITIES SHALL BE MONITORED AS FOLLOWS:
- CONDUCT DETAILED PRE- AND POST-CONSTRUCTION SURVEYS OF UTILITIES AND STRUCTURES, TO INCLUDE VIDEO INSPECTION AND/OR PHOTOGRAPHS AS REQUIRED BY THE ENGINEER.
 - INSTALL VERTICAL AND HORIZONTAL DEFLECTION MONITORING STATIONS ALONG THE UTILITY ALIGNMENT, OR AT LOCATION DESIGNATED BY THE ENGINEER, TO DETECT SETTLEMENT OR LATERAL MOVEMENT OF THE UTILITY AND SURROUNDING SOIL.
 - MONITORING STATIONS SHALL OCCUR AT A MINIMUM OF 50 FEET ON CENTER FOR THE LENGTH OF DISTURBANCE WITHIN THE ZONE OF INFLUENCE, OR AT CLOSER SPACING IF DIRECTED BY THE ENGINEER.
 - MONITORING STATIONS GENERALLY SHALL CONSIST OF TARGETS AND BENCHMARKS THAT ARE READ BY STANDARD OPTICAL SURVEY EQUIPMENT. IF WARRANTED, INCLINOMETER STATIONS PLACED ALONG DEEP EXCAVATIONS SHALL SUPPLEMENT MONITORING STATIONS.
 - MONITORING STATIONS SHALL BE READ AND RECORDED AT LEAST ONCE EACH WEEK, OR MORE FREQUENTLY AS DIRECTED BY THE ENGINEER, AND COPIES OF ALL RECORDS SHALL BE REPORTED TO DC WATER. REPORTS SHALL DOCUMENT THE LOCATION OF EACH STATION, THE DATE AND TIME OF EACH OBSERVATION, AND SHALL PROVIDE A CONTINUOUS HISTORY OF READINGS FOR EACH STATION, INCLUDING BASELINE READINGS.
 - MONITORING SHALL CONTINUE UNTIL THE EXCAVATION HAS BEEN PERMANENTLY STABILIZED.
 - ANY HORIZONTAL OR VERTICAL MOVEMENT WITHIN THE ZONE OF INFLUENCE THAT EXCEEDS 0.01 FT. SHALL BE IMMEDIATELY REPORTED TO DC WATER.
 - GROUNDWATER LEVEL MONITORING: DC WATER UTILITIES SHALL BE MONITORED BY INSPECTING OBSERVATION WELLS AND PIEZOMETERS, AND SHALL BE MAINTAINED TO PREVENT SETTLEMENT DUE TO DEWATERING.

- DDOT EXCAVATION NOTES:**
- NO WORK SHALL BE UNDERTAKEN IF THE APPLICANT, OR THE PERSON ON WHOSE BEHALF THE APPLICANT IS MADE, HAS A TEMPORARY REPAIR IN PUBLIC SPACE OLDER THAN 45 DAYS, OR TEMPORARY REPAIRS THAT HAVE FAILED AND THOSE REPAIRS HAVE NOT BEEN UNDERTAKEN WITHIN 24 HOURS.
- PERSONS REGULARLY PERFORMING PUBLIC SPACE EXCAVATION AND MANHOLE WORK REQUESTED TO PROVIDE, ON A BENCHMARK BASIS, PLANS SHOWING THEIR ANTICIPATED ACTIVITIES IN THE PUBLIC SPACE WITHIN THE TWO WEEK PERIOD. SINCE THESE PLANS ASSIST THE DEPARTMENT IN COORDINATING ACTIVITIES IN THE PUBLIC SPACE, THE FAILURE TO PROVIDE SUCH PLANS MAY RESULT IN DELAYS IN THE PERMIT REVIEW PROCESS.
- NOTIFY THE DEPARTMENT OF TRANSPORTATION, OFFICE OF INFRASTRUCTURE OVERSIGHT AT 202-645-7956, 48 HOURS IN ADVANCE OF STARTING WORK.
 - ALL FILLED CUTS MUST BE REPAIRED WITHIN 24 HOURS OF NOTIFICATIONS.
 - D.C. LAW 3129, UNDERGROUND FACILITIES PROTECTION ACT OF 1980, REQUIRES THAT "MISS UTILITY" (1-800-257-7777) BE CONTACTED AT LEAST 48 HOURS AND NOT MORE THAN 10 DAYS (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS) PRIOR TO START OF EXCAVATION, SO NOTIFICATION CAN BE MADE TO PARTICIPATING PRIVATE UTILITY COMPANIES OF THE PROPOSED WORK.
 - 48 HOURS PRIOR TO EXCAVATING, PLEASE CALL THE WATER OPERATIONS BRANCH AT 202-673-6660 FOR LOCATIONS OF SEWER AND WATER MAIN LINES.
 - IMPROVE WORKKEEPING VIOLATIONS ON JOB SITE RELATING TO DIRT AND DEBRIS IN THE PUBLIC SPACE, CATCH BASINS, SEWERS, ETC. SHALL BE GROUNDS FOR A FINE AND/OR REVOCATION OF THE PERMIT.
 - PLATE ALL INTERSECTION, WHERE APPLICABLE.
 - MAINTAIN A 6 TO 10 FOOT SIDEWALK AT ALL TIMES FOR PEDESTRIANS.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND SALVAGING ALL CONCRETE PAVERS AND OTHER SPECIAL PAVERS REMOVED IN CONNECTION WITH EXCAVATION. THE PAVERS ARE TO BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS MAINTENANCE YARD AT 201 FLORIDA AVENUE, N.E. TELEPHONE NUMBER IS 202-727-5894.
 - CAUTION STREET LIGHT CABLE BEHIND CURB.
 - CONTRACTOR TO LOCATE ALL WATER AND SEWER LINES PRIOR TO START OF WORK.

WMATA NOTE:

ALL WORK CONDUCTED WITHIN THE WMATA ZONE OF INFLUENCE, AS SHOWN ON THIS PLAN SET, MUST COMPLY WITH THE WMATA ADJACENT CONSTRUCTION PROJECT MANUAL (ACPM). CONTRACTORS SHOULD FAMILIARIZE THEMSELVES WITH THE (ACPM) AND FOLLOW THE (ACPM) IN THE ZONE OF INFLUENCE AS PRESCRIBED.

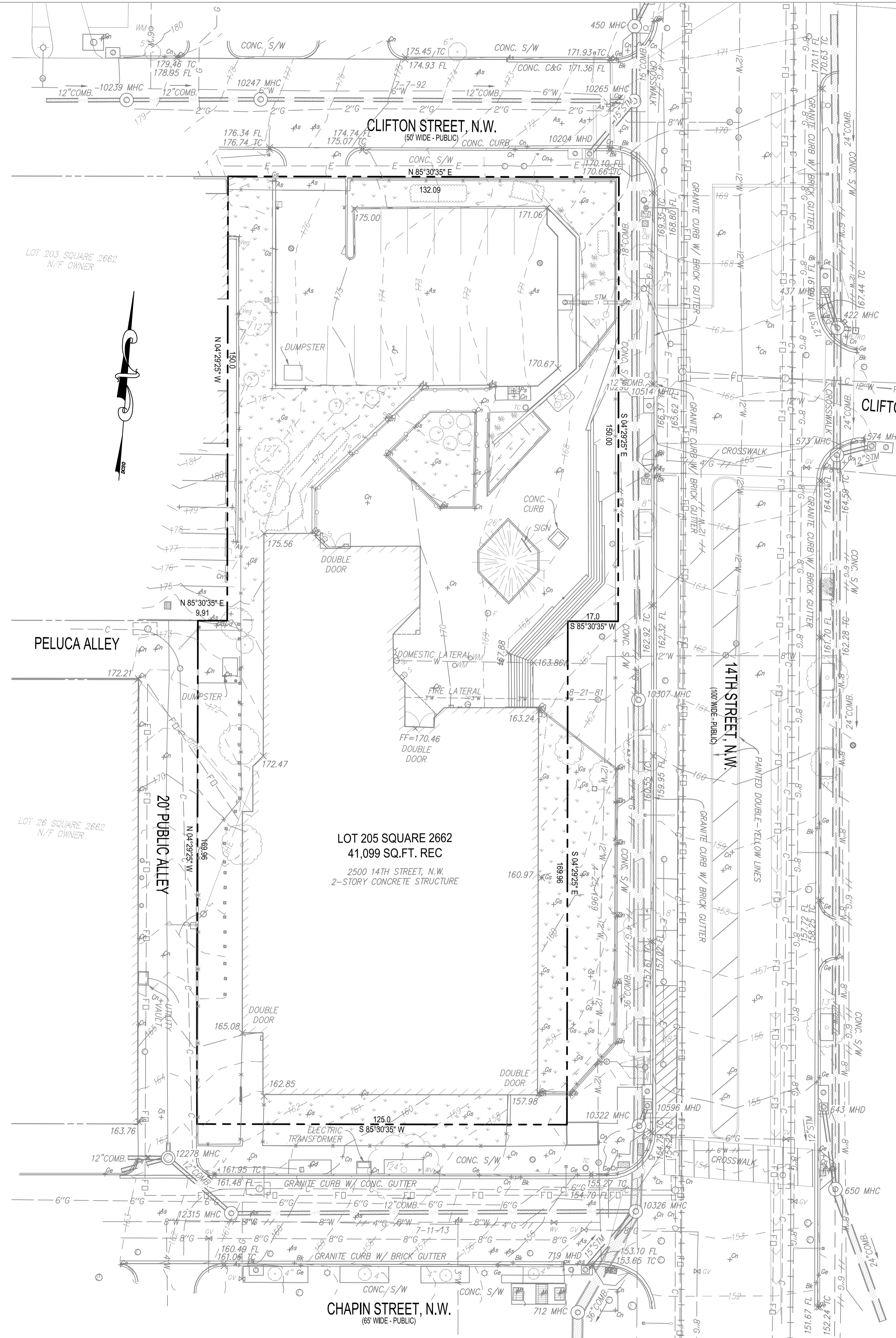
DEMOLITION:

- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OFF SITE.
- REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE BASE AND SUB-BASE MATERIALS.
- EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM A SURVEY PREPARED BY WILES MENSCH CORPORATION DATED: 2017-11-21 AND FROM AVAILABLE UTILITY COMPANY RECORDS.
- ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRICAL, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE RECORDS AND FIELD SURVEY WHERE POSSIBLE. THE LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCY TO THE ENGINEER. MARKING LOCATIONS OF EXISTING UTILITIES, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES AS WELL IN DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURE. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR DEMOLITION AS PER DISTRICT OF COLUMBIA EROSION AND CONTROL HANDBOOK. IF ANY ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. REFER TO SHEET CIV0003 AND CIV0004 FOR EROSION CONTROL AND EROSION CONTROL PLANS AND DETAILS.
- SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED.
- NOTE: PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.
- EXISTING UTILITIES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AS PER UTILITY PURVEYOR'S STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH UTILITY PURVEYOR'S.
- REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
- ALL EXISTING DC STREETLIGHT POLES THAT ARE BEING PERMANENTLY REMOVED MUST BE RETURNED TO GOOD CONDITION TO THE DISTRICT OF COLUMBIA WAREHOUSE AT 1735 15TH STREET, NE OFF WEST VIRGINIA AVENUE CONTACT NUMBER 202-576-5258.
- EXISTING WATER AND SEWER SERVICES NOT REQUIRED FOR FUTURE USE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER OF SERVICE TO BE CAPPED AT MAIN AND EXISTING VALVES AND TEES TO BE REMOVED PER DC WATER STANDARDS SPECIFICATIONS. COORDINATE REQUIREMENTS WITH DC WATER INSPECTOR AT 202-787-4024. PAVEMENT TO BE REMOVED PER DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO BE RESPONSIBLE FOR LAYOUT, EXTENT AND DESIGN OF SHEETING, SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES, SHORING, BRACING AND UNDERPINNING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA, HIRED BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND UTILITIES.
- CONTRACTOR TO RELOCATE PARKING METERS IF REQUIRED AND AS DIRECTED BY D.C. BUREAU OF PARKING COORDINATE REQUIREMENT WITH LARRY BROWN OF PARKING SERVICES AT 202-671-2291.
- NOTIFY DC WATER UTILITY INSPECTOR, CHIEF UTILITY INSPECTOR (202) 787-4024 OF DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY 48 HOURS PRIOR TO START OF CONSTRUCTION.
- UNLESS OTHERWISE SHOWN ON THESE DRAWINGS, EXISTING PAVEMENT ON 14TH STREET, CLIFTON CHAPIN STREET AND PUBLIC ALLEYS TO REMAIN. PROVIDE DEMOLITION VIDEO OF EXISTING PAVEMENT. EXISTING PAVEMENT, DISTURBED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED PER DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AT NO ADDITIONAL COST.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES VERIFY INVERT ELEVATION OF EXISTING UTILITIES AND/OR DEMOLITION AS PER DISTRICT OF COLUMBIA RECORDS SHOWN PRIOR TO ORDERING ANY STRUCTURES.
- CONTACT "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO CONSTRUCTION.
- CONTACT DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION-PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202) 645-6030 OR (202) 645-6031.
- ALL PROPOSED UTILITY WORK TO BE PERFORMED UNDER THE INSPECTION OF THE DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY.
- USE MANHOLE ENTRY SEALS WHERE REQUIRED.
- CONTRACTOR TO PROVIDE A PRE AND POST VIDEO OF SEWER ON EXISTING SEWER AROUND THE SITE PER DC WATER STANDARDS AND SPECIFICATIONS.

SITE NOTES:

- WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATION AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ARCHITECT OR ENGINEER.
- APPROVE LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING

LEGEND	
As	ASPHALT
Bk	BRICK
Cb	COBBLESTONE
Cn	CONCRETE
Gd	GROUND
Gn	GRANITE
Gr	GRASS
Mh	MULCH
Ps	PAVERS
Sh	SHRUB
DT	DECIDUOUS TREE
Structure Table	
B	BOLLARD
BR	BIKE RACK
TC	TRASH CAN
EB	ELECTRIC BOX
TB	TELEPHONE BOX
SC	SECURITY CAMERA
CL	CLEANOUT
FH	FIRE HYDRANT
SFH	SIAMESE FIRE HYDRANT
MW	MONITORING WELL
WL	WALL LIGHT
CSM	COMBINED SEWER MANHOLE
EM	ELECTRIC MANHOLE
TM	TELEPHONE MANHOLE
UM	UTILITY MANHOLE
WM	WATER MANHOLE
CLP	COBRA LIGHT POLE
LP	LIGHT POLE
SGLP	SQUARE GLOBE LIGHT POLE
GV	GAS VALVE
WS	WATER SPIGOT
WM	WATER METER
WV	WATER VALVE
DD	DOUBLE DOOR
X	MONUMENT FOUND CHISELED X
MN	MONUMENT FOUND NAIL
CS	CROSSWALK SIGNAL
TS	TRAFFIC SIGNAL
OHE	OVERHEAD ELECTRIC
C	UNDERGROUND COMMUNICATION
E	UNDERGROUND ELECTRIC
G	UNDERGROUND GAS
W	UNDERGROUND WATER
SS	UNDERGROUND STORM/SEWER
F	FENCE LINE
H	HAND RAIL
P	PROPERTY LINE
TC	TOP OF CURB
FL	FLOWLINE
TW	TOP OF WALL
BW	BOTTOM OF WALL
S/W	SIDEWALK
N/F	NOW AND/OR FORMERLY
FF	FINISHED FLOOR
C&G	CURB AND GUTTER
CONC.	CONCRETE
TYP.	TYPICAL
COMB.	COMBINED SEWER
CLF	CHAIN LINK FENCE
WF	WROUGHT IRON FENCE
rec	RECORD
mst	MEASUREMENT



UNDERGROUND UTILITY RECORDS SHOWN:

UTILITY	SOURCE	DATE
SEWER: WASA PANEL:	OS E-11-N.W.	8-27-58
WATER: WASA PANEL:	OW E-11-N.W.	11-7-51
ELECTRIC: PEPCO	NONE RECEIVED AS OF	11-21-2017
GAS: WASHINGTON GAS	WG-3187	5-22-17
OCTO DCNET FIBER:	2500_14TH	5-22-17
COMMUNICATION: VERIZON	MAP#9_GRID K-9	3-5-85
COMMUNICATION: MCI	REPORTED NONE	06-02-2017
COMMUNICATION: COMCAST	1177_001	5-24-17

- GENERAL NOTES:
- THE INFORMATION SHOWN RESULTS FROM A FIELD SURVEY BY THIS FIRM, LAST DATE OF FIELD SURVEY NOVEMBER 20, 2017.
 - NO TITLE REPORT FURNISHED, EASEMENTS AND/OR OTHER ENCUMBRANCES OF RECORD MAY EXIST AND ARE NOT SHOWN HEREON.
 - BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM OFFICIAL CITY RECORDS, AND VERIFIED IN THE FIELD INSOFAR AS POSSIBLE. PROPERTY LINE DIMENSIONS FROM OFFICIAL RECORDS MAY NOT NECESSARILY AGREE WITH ACTUAL MEASURED DIMENSIONS. ALL PROPERTY LINES IN THE DISTRICT OF COLUMBIA ARE SUBJECT TO CHANGE BY THE OFFICE OF THE SURVEYOR, D.C.
 - ELEVATIONS SHOWN ARE REFERENCED TO DCDPW DATUM (BM 6-34 & 6-52), MERIDIAN REFERENCED TO DCSO NORTH, BY HOLDING RECORD BEARING OF 14TH STREET, N.W. S04°29'25"E.
 - VISIBLE ABOVE GROUND UTILITIES HAVE BEEN SHOWN. SUBSURFACE UTILITIES, WHERE SHOWN, FOLLOW ASCE 38-02 QUALITY LEVELS A-D. A: VISUALLY VERIFIED VIA TEST HOLES; B: DESIGNATED AND SURVEYED; C: RECORD INFORMATION CORRELATED WITH SURVEYED SURFACE FEATURES; D: RECORD INFORMATION ONLY. WHERE SUBSURFACE UTILITIES HAVE BEEN APPARENTLY DESIGNATED BY OTHERS ON SITE, THOSE LOCATIONS WILL BE SHOWN AS QUALITY LEVEL C. UTILITIES MAY EXIST THAT ARE NOT SHOWN. UNLESS OTHERWISE LABELED AS ABOVE, THIS SURVEY REPRESENTS QUALITY LEVEL C.
 - PROPERTY IS IDENTIFIED AS ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED ON FIRM COMMUNITY PANEL 1100010016C, EFFECTIVE DATE SEPTEMBER 27, 2010.
 - AS OF MAY 15, 2017, THE PROPERTY IS ZONED MU-5A AS DELINEATED ON THE ZONING MAP FROM DISTRICT OF COLUMBIA'S OFFICE OF ZONING (<http://maps.dcoz.dc.gov/zr16>); MINIMUM BUILDING SETBACK, MAXIMUM PERMITTED FLOOR AREA RATIOS, AND MAXIMUM BUILDING HEIGHTS ARE BASED UPON INTERPRETATIONS OF THE PROPOSED USE BY THE DISTRICT OF COLUMBIA ZONING OFFICE.
 - THE SURVEYED PROPERTY IS ENCOMPASSED BY THE 300 FOOT WMATA METRO RAIL LINE BUFFER.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 PERMIT OPERATIONS DIVISION
 PLANS APPROVED
 Permit No. FD1900028 Date 05/21/19

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade permits are required for trade work. e.g. Electrical or Plumbing

CUNNINGHAM I QUILL ARCHITECTS
 Zoning Review - Brittany Bullock - 05-21-2019
 Green Review - Kristian Hoffland - 05-21-2019
 Structural Review - Andrew Wiley - 05-21-2019
 Electrical Review - Alina Mahmood - 05-21-2019
 DOE SE-SW Review - Nykia Barnes - 05-21-2019
 DOE GAR Review - Nykia Barnes - 05-21-2019
 Mechanical Review - Alec Petrillo-Groh - 05-21-2019
 Plumbing Review - Alec Petrillo-Groh - 05-21-2019
 WMATA Review - Robert Simpkins - 05-21-2019

PH. 202.337.0090
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 www.cunninghamquill.com

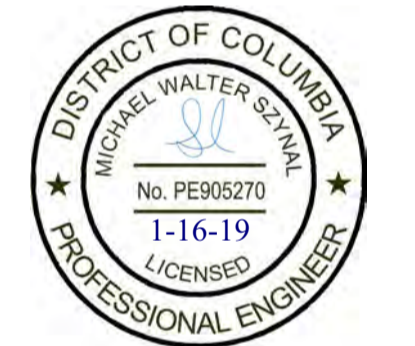
OWNER:
 D.C. Department of General Services
 1250 U Street, NW, 4th Floor
 Washington, DC 20009
 Phone: (202) 727-2900

STRUCTURAL ENGINEER:
 Yun Associates, LLC
 1775 K Street, NW, Suite 220
 Washington, DC 20006
 Phone: 202-849-3075

MEP ENGINEER:
 Sully & Associates International
 3040 Williams Drive, Suite 600
 Fairfax, VA 22031
 Phone: 703-691-2115

CIVIL ENGINEER:
 Wiles Mensch Corporation
 510 8th Street, SE
 Washington, DC 20003
 Phone: 202-638-4040 x255

LANDSCAPE ARCHITECT:
 Landscape Architecture Bureau
 714 7th Street, SE
 Washington, DC 20003
 Phone: 202-543-6550



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Issues / Revisions

Date	Description
11/20/2018	Schematic Design Submission
01/17/2019	Foundation to Grade Permit

Ward 1 STFH & PSH
 2500 14th Street NW
 Washington DC 20009

CQA# 21811

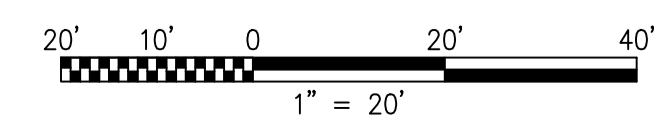
Drawing Title

Existing Conditions Plan

Scale 1" = 20'
 Date 12/15/18
 Drawn By BG
 Checked By MS

CIV0101

NOT FOR CONSTRUCTION



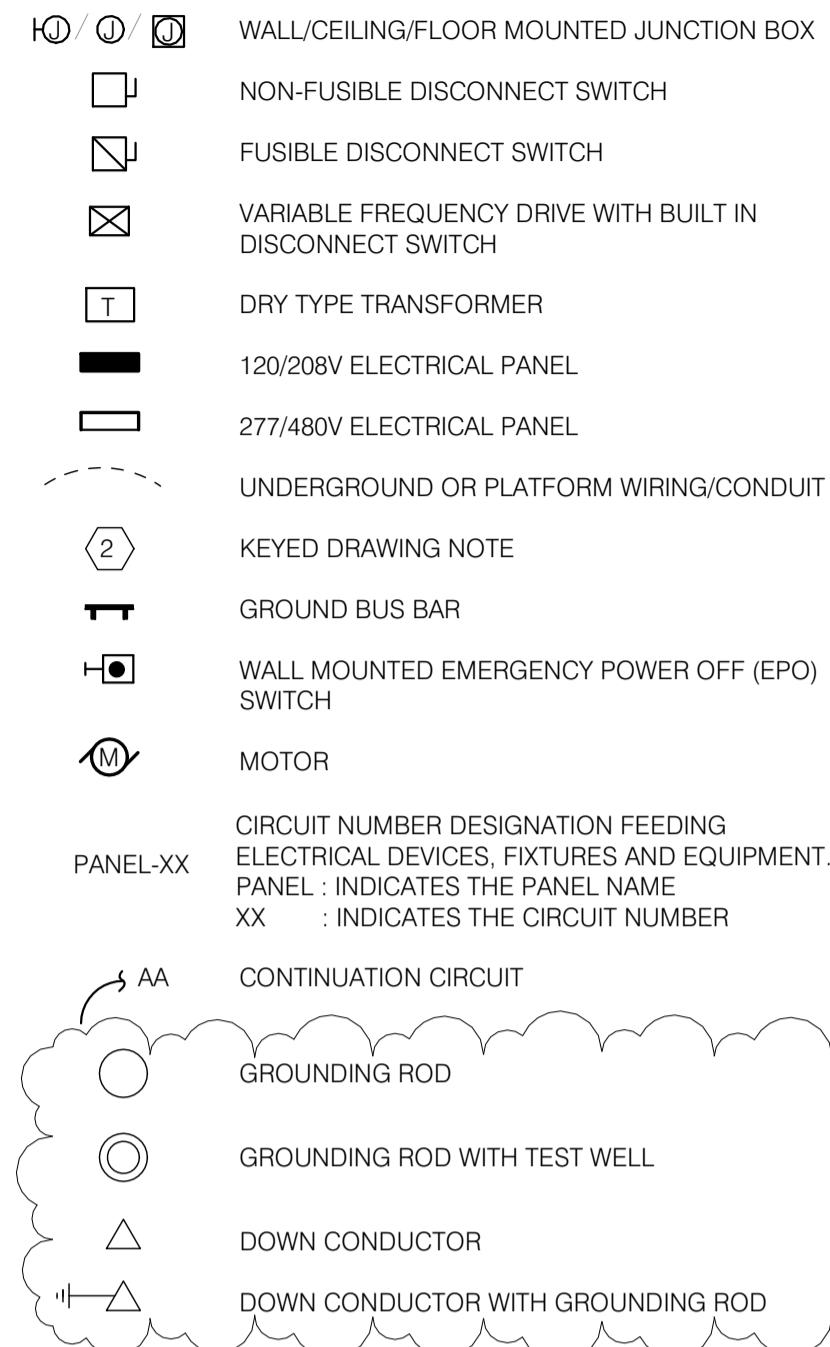
ELECTRICAL GENERAL NOTES

ELECTRICAL SYMBOL LIST

ABBREVIATIONS

- INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.
A. LOCAL CODES AND ORDINANCES
B. THE EDITION OF THE NATIONAL ELECTRICAL CODE NFPA 70 (NEC) IN EFFECT.
- BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT, AND SPACE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS EQUIPMENT IN THE MANNER SPECIFIED OR AS SHOWN IN CONTRACT DOCUMENTS TEN BUSINESS DAYS PRIOR TO SUBMISSION OF BIDS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY EFFECT HIS WORK.
- CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO THE OWNERS REPRESENTATIVE PRIOR TO ANY WORK TO ALLOW ADEQUATE TIME FOR COORDINATION OF EXISTING SITE ACTIVITIES WITH THE CONSTRUCTION WORK.
- THE CONTRACTOR TO INCLUDE IN THEIR SCOPE ALL LABOR, MATERIALS, SERVICES, APPARATUS AND SHOP DRAWINGS IN ADDITION TO THE CONTRACT DOCUMENTS AS REQUIRED TO COMPLY WITH ALL APPLICABLE GOVERNING LAWS, CODES AND JURISDICTION REQUIREMENTS. PROVIDE ELECTRICAL EQUIPMENT WITH ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL MATERIALS AND WORK SHALL BE ACCORDING TO PROJECT SPECIFICATIONS.
- IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL DEVICES. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS INSTALLED IN RACEWAYS. THE DEDICATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC SECTION 250.122. SOLE USE OF METAL RACEWAY AS A GROUNDING CONDUCTOR SHALL NOT BE ACCEPTABLE. WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC SECTION 518.4 FOR ALL ASSEMBLY AREAS.

- PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE JUNCTION BOXES AS REQUIRED BY THE N.E.C.
- CONTRACTOR TO PROVIDE ELECTRICAL INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO CONDUITS, SLEEVES AND RECEPTACLE OUTLETS ON DEDICATED CIRCUIT(S) TO SUPPORT DISTRIBUTED ANTENNA SYSTEMS DESIGNED BY OTHERS.
- CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL TRADES.
A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, AFTER OBTAINING APPROVAL OF ARCHITECT.
C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY PROVIDED THEY ARE APPROVED BY THE OWNERS OR THE ARCHITECTS.
D. KEEP CONDUITS, WIRE WAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL WORK TO BE INSTALLED IN A NEAT AND WORK MAN LIKE MANNER.
E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO OWNER.
F. PROVIDE ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE N.E.C.



- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISHED FLOOR
- AL ALUMINUM
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CB CIRCUIT BREAKER
- CU COPPER
- DISC. SW. DISCONNECT SWITCH
- DWG DRAWING
- EC ELECTRICAL CONTRACTOR
- EM DEVICE ON EMERGENCY CIRCUIT
- EMT ELECTRICAL METALLIC TUBING
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FLA FULL LOAD AMPS
- G GROUND
- GFI GROUND FAULT INTERRUPTER
- GRS GALVANIZED RESISTIVE CONDUIT
- HP HORSE POWER

- KVA KILOVOLT-AMPS
- KW KILOWATT
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MDP MAIN DISTRIBUTION PANEL
- NEC NATIONAL ELECTRICAL CODE
- NFSS NON FUSED SAFETY SWITCH
- NTS NOT TO SCALE
- P POLE
- PH PHASE
- PNL PANEL
- S/N SOLID NEUTRAL SWITCHBOARD
- SWBD
- XFMR TRANSFORMER
- TYP. TYPICAL
- UON UNLESS OTHERWISE NOTED
- V VOLTS
- W WATTS
- WP WEATHERPROOF

(NOTE : ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. PD1900028 Date 05/21/19
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 Zoning Review - Brittany Bullock - 05-21-2019
 Green Review - Kristian Hoffland - 05-21-2019
 Structural Review - Andrew Wiley - 05-21-2019
 Electrical Review - Alina Mahmood - 05-21-2019
 DOEE SE-SW Review - Nykia Barnes - 05-21-2019
 DOEE GAR Review - Nykia Barnes - 05-21-2019
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Issues / Revisions

11/20/2018	Schematic Design Submission
02/08/2019	Design Development Drawing Set
03/04/2019	Permit Comments

SHEET	DRAWING	TITLE
01	E0.01.1	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
02	E0.01.2	ELECTRICAL SITE PLAN
03	E2.00	P1 LEVEL PLAN- ELECTRICAL POWER
04	E2.04	ROOF LEVEL PLAN- ELECTRICAL POWER
05	E8.03	ELECTRICAL DETAILS- LIGHTNING PROTECTION

Ward 1 STFH & PSH
 2500 14th Street NW
 Washington DC 20009

CQA#21811

Drawing Title

GENERAL NOTES, SYMBOLS & ABBREVIATIONS

Scale: 1/8" = 1'-0"
 Date: 01/28/19
 Drawn By: CQA
 Checked By: CQA

E0.01.1

NOT FOR CONSTRUCTION

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CQA#21811

Drawing Title

P1 LEVEL PLAN - ELECTRICAL POWER

Scale: 1/8" = 1'-0"
 Date: 01/28/19
 Drawn By: CQA
 Checked By: CQA

E2.00

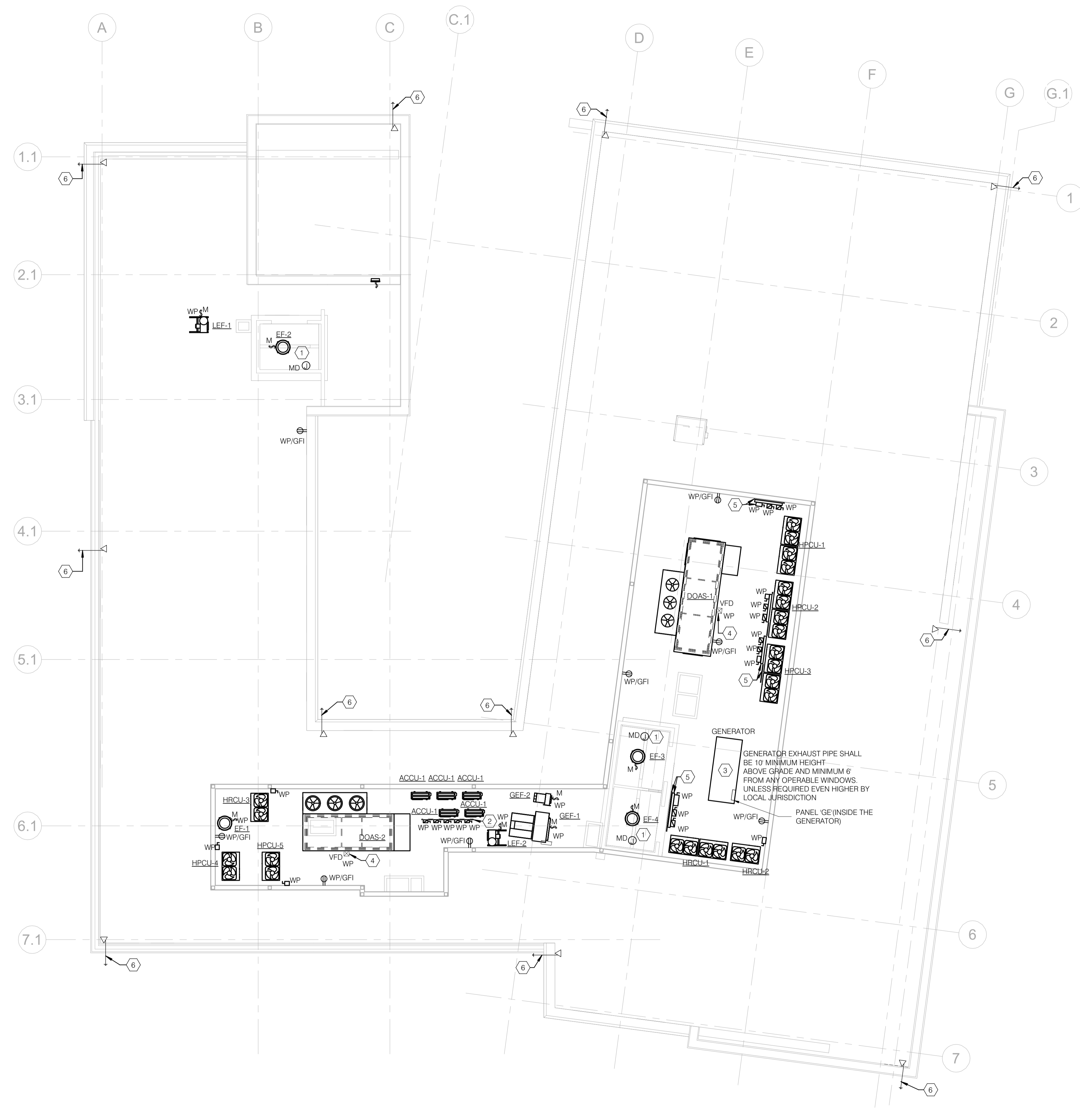
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- ### GENERAL SHEET NOTES
- REFER TO THE ELECTRICAL COVER SHEET DRAWING E0.01 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND DRAWING E5.01 FOR POWER RISER DIAGRAM, E6.01 FOR MECHANICAL PLUMBING SCHEDULES AND DRAWING E6.02 TO E6.06 FOR PANEL SCHEDULES.
 - REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING AND ADDITIONAL INFORMATION FOR POWER/PLUMBING OUTLETS PRIOR TO ROUGH-IN WORK AND INSTALLATION.
 - COORDINATE ALL FLOOR, WALL AND CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
 - COORDINATE EXACT LOCATION FOR POWER CONNECTION ASSOCIATED WITH MECHANICAL PLUMBING EQUIPMENT PRIOR TO ROUGH-IN.
 - ALL OUTLETS ON EMERGENCY CIRCUITS SHALL BE IN COLOR.
 - ALL RECEPTACLES, TELECOMMUNICATION OUTLETS WITH ASSOCIATED WIRING SHALL BE RECESSED INTO THE SLAB.
 - SURFACE MOUNTED OUTLETS SHALL BE PROVIDED WHEREVER THERE IS A MASONRY WALL. WIRING METHODS SHALL BE CONDUCTORS IN CONDUIT. COORDINATE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
 - ALL PULL BOXES SHALL REMAIN ACCESSIBLE FOR MAINTENANCE.
 - CABLES WITHIN RISERS MUST BE FIRE RATED IN ORDER TO PREVENT THE SPREAD OF FIRE BETWEEN FLOORS. FIRE RATED WIRING SHALL BE FASTEN IN PLACE AT INTERVALS NOT LESS THAN MANUFACTURER RECOMMENDATIONS, OR NOT LESS THAN SPECIFIED IN NEC TABLE 300.19(A), WHICHEVER IS MORE STRINGENT.
 - ALL FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING.
 - COORDINATE WITH ARCHITECT AND OTHER TRADES FOR CLEARANCE REQUIREMENTS AND ACCESS PANELS.
 - ALL RECEPTACLE OUTLETS WITHIN 6' OF THE EDGE OF A SINK MUST BE GFI TYPE.
 - MOUNTING HEIGHT OF ELECTRICAL DEVICES, OTHER OUTLETS AND THE ELECTRICAL PANEL'S TOP MOST BREAKER SHALL BE NO MORE THAN 46 INCHES A.F.F IN ACCESSIBLE UNITS.

- ### KEYED SHEET NOTES
- COORDINATE WITH ELEVATOR CONTRACTOR FOR EXACT OUTLET LOCATION IN PIT PRIOR TO INSTALLATION. CONNECT TO THE LIGHT FIXTURE AHEAD OF LIGHT SWITCH IN PIT AS SHOWN ON DRAWING E1.00.
 - ELEVATOR EMERGENCY STOP SWITCH AT ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR AND CONTRACTOR. SEE DETAIL ON DRAWING E7.01.
 - DUPLEX RECEPTACLE FOR VENDING MACHINE. COORDINATE WITH ARCHITECT AND EQUIPMENT VENDOR FOR EXACT LOCATION, MOUNTING HEIGHT AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
 - REFER TO DETAIL 2 ON DRAWING E4.11 FOR DETAIL ON ELECTRICAL ROOM.
 - ADA COMPLAINT FLOOR BOXES. MOUNT BOX COMPLETELY FLUSH WITH FINISHED FLOOR, SO THERE IS NO TRIPPING HAZARD. CONTRACTOR TO PROVIDE RECESSED CONDUIT IN THE SLAB TO NEAREST PARTITION WALL AND STUB UP TO THE CEILING AS REQUIRED.
 - OUTLET FOR TV. COORDINATE WITH SPECIALTY SYSTEM DESIGNER AND OWNER FOR EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO INSTALLATION.
 - COORDINATE WITH ARCHITECTURAL CASEWORK ELEVATIONS FOR PLACEMENT OF OVER THE COUNTER RECEPTACLES.
 - POWERED THROUGH CORRESPONDING OUTDOOR CONDENSING UNIT.
 - JUNCTION BOX FOR POWER CONNECTION TO TWO-WAY COMMUNICATION MASTER CONTROL PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR AND EQUIPMENT VENDOR TO VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
 - JUNCTION BOX FOR HEAT TRACE EQUIPMENT. COORDINATE WITH FIRE PROTECTION DRAWINGS AND EQUIPMENT VENDOR TO VERIFY EXACT LOCATION, LENGTH, HEAT TRACE SPECIFICATION, CONTROLS, MOUNTING AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION. PROVIDE 30mA GFI CIRCUIT BREAKER ON RESPECTIVE PANEL SERVING THIS CIRCUIT.
 - COMBINATION OF FIRE PUMP CONTROLLER WITH AUTOMATIC TRANSFER SWITCH AND SERVICE UL LABEL SERVICE ENTRANCE SWITCH.
 - COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR EXACT LOCATION. INSTALL PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS. JOCKEY PUMP CONTROLLER FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
 - JUNCTION BOX FOR MOTORIZED DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF MOTORIZED DAMPER PRIOR TO INSTALLATION.
 - REFER TO POWER RISER DIAGRAM FOR FIRE PUMP CONNECTION AND POWER REQUIREMENTS.
 - COORDINATE WITH ARCHITECT AND STRUCTURAL WHETHER THE CONDUCTORS WILL BE SURFACE OR EMBEDDED IN THE CONSTRUCTION ELEMENTS. ELECTRICAL CONTRACTOR SHALL ADD GUARDS FOR PROTECTION OF DOWN-CONDUCTORS WHEREVER CONDUCTOR IS SUBJECT TO FISCAL DAMAGE. WHERE THE CONDUCTOR IS CONNECTING TO THE UNDERGROUND SYSTEM, PROTECT THE DOWNCONDUCTOR FOR A MINIMUM DISTANCE OF 6 FEET ABOVE GRADE LEVEL.
 - CONTRACTOR TO TEST THE GROUNDING RESISTANCE OF THE LIGHTNING PROTECTION. IF GROUNDING TEST RESISTANCE SHOWS RESULTS OF MORE THAN 3 OHMS, CONTRACTOR SHALL PROVIDE ADDITIONAL GROUNDING RODS SPACED EQUALLY, AND CONNECTED TO THE SAME LOOP CONDUCTOR UNTIL THE GROUNDING RESISTANCE MEASURED TEST IS MAXIMUM 3 OHMS.
 - CONTRACTOR TO CONNECT THE GROUND CONDUCTOR AS SHOWN ON DETAIL 6/E8.03.



1 PARKING LEVEL PLAN - ELECTRICAL POWER
 1/8" = 1'-0"



1 ROOF LEVEL PLAN - ELECTRICAL POWER
E2.04
1/8" = 1'-0"

LIGHTNING PROTECTION NOTES

- INSTALL A LIGHTNING PROTECTION SYSTEM FOR THE BUILDING IN ACCORDANCE WITH NFPA 780 AND CERTIFIED UL 96A USING MINIMUM MATERIALS CLASS 1 AS PER NFPA 780.
- INSTALLATION OF LIGHTNING PROTECTION SYSTEM SHALL COMPLY IN ALL RESPECTS TO 26 41 13, NFPA 780 AND UL96A. INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN LPI OR UL CERTIFIED MASTER INSTALLER. COMPLETED INSTALLATION TO RECEIVE SYSTEM CERTIFICATION.
- AVOID DISSIMILAR MATERIALS CONTACT. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOFING, SIDING MATERIALS, OR OTHER ALUMINUM SURFACES.
- ALL LIGHTNING PROTECTION CONDUCTORS CABLES SHALL BE #20 AWG BARE COPPER OR #10 AWG BARE ALUMINUM, STRANDED CABLE (MINIMUM). ALUMINUM IS NOT ALLOWED IN DIRECT CONTACT WITH CONCRETE.
- CONDUCTORS MAY BE COURSED THROUGH AIR WITHOUT SUPPORT FOR A DISTANCE OF 3 FEET OR LESS WITH AN ACCEPTABLE SUPPORT SECURELY FASTENED AT EACH END. A CONDUCTOR MAY BE COURSED THROUGH AIR FOR A DISTANCE NOT TO EXCEED 6'-0", PROVIDED ADEQUATE SUPPORT IS PROVIDED.
- AIR TERMINALS SHALL BE MINIMUM 10 INCHES HIGH 3/8" DIAMETER COPPER OR 1/2" DIAMETER ALUMINUM, AND PLACED AT OR WITHIN 2 FEET OF THE ENDS OF RIDGES OR EDGES & CORNERS OF ROOFS AND AT INTERVALS NOT EXCEEDING 20 FEET. DETAILS OF INSTALLATION TO BE COORDINATED WITH VENDOR FOR SPECIFIC PRODUCT.
- CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE FREE FROM U OR V (DOWN & UP) SHAPED POCKETS. NO BENDS OF CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90 DEGREES OR HAVE A RADIUS OF BEND LESS THAN 8 INCHES.
- ROOF CONDUCTOR SHALL INTERCONNECT ALL AIR TERMINALS TO FORM A TWO WAY PATH TO GROUND FROM THE BASE OF EACH TERMINAL, AND SHALL BE COURSED ACROSS OPEN ROOF AREAS TO FORM A CLOSED LOOP.
- LIGHTNING PROTECTION SYSTEM CONDUCTOR SHALL BE INSTALLED AS REQUIRED FROM THE UNDERSIDE TERMINAL OF THRU - THE ROOF CONDUCTOR OR THRU 1" CONDUIT ROOF SLEEVE PENETRATION AND BE CONNECTED TO THE GROUND GRID.
- DOWN CONDUCTORS (CONTINUATION OF ROOF CONDUCTORS TO GROUND GIRDS SHALL BE WIDELY SEPARATED AS PRACTICAL. THE TOTAL NUMBER OF DOWN CONDUCTORS SHALL BE OF SUFFICIENT NUMBER SO THAT THE PERIMETER DISTANCE BETWEEN DOWN CONDUCTORS DOES NOT EXCEED 100 FEET FOR STRUCTURES HIGHER THAN 250 FEET. CONNECT TO LIGHTNING PROTECTION GROUND LOOP. PROVIDE GROUND RODS AND CABLE AS REQUIRED TO SUIT SOIL CONDITIONS.
- DOWN CONDUCTORS SHALL BE CONNECTED IN A LOOP AT INTERVALS NOT EXCEEDING 200 FEET FOR LONG VERTICAL MEMBERS.
- CONTRACTOR TO FURNISH ALL CONNECTORS AND FITTINGS REQUIRED FOR THE COMPLETE INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM. CONNECTORS AND FITTINGS SHALL BE ATTACHED SO AS TO WITHSTAND A PULL TEST OF 200 POUNDS.
- BOND TO METAL BODIES OF CONDUCTANCE ON ROOF WITH MAIN SIZE CONDUCTORS AS SHOWN AND REQUIRED BY NFPA AND LPI CODES. THESE BONDS INCLUDE BUT ARE NOT LIMITED TO EXHAUST FANS, VENTS, HANDRAILS, LADDERS, METAL SCREENS AND PANELS, H.V.A.C. UNITS, HATCHES, ETC., OR ANY LARGE BODY SUBJECT TO DIRECT STROKE OR WHICH EXCEEDS THE HEIGHT OF ADJACENT AIR TERMINALS. BOND TO METAL BODIES OF INDUCTANCE LOCATED WITHIN 6'-0" OF MAIN CONDUCTORS OR OTHER BONDED OBJECT WITH APPROVED SECONDARY BONDING CONDUCTOR AS SHOWN AND AS REQUIRED BY NFPA AND LPI CODES. SUCH OBJECTS INCLUDE BUT ARE NOT LIMITED TO FLASHING, METAL COPINGS CAPS, FASCIA, ROOF DRAINS, DOWNSPOUTS, INTERIOR DUCTS, MACHINERY OR PIPING, ETC., OR IN GENERAL ANY ISOLATED BODY AT OR BELOW THE ROOF SUBJECT TO INDUCTANCE AND WITHIN 6'-0" OF SYSTEM.
- FASTENERS SHALL BE SPACED NOT MORE THAN 3 FEET APART ON ALL CONDUCTORS. FASTENERS SHALL BE OF THE SAME MATERIAL AS SCREWS OR BOLTS USED TO SECURE FASTENERS TO INHIBIT CORROSION.
- ALL PENETRATIONS REQUIRED THROUGH WALLS AND ROOFS FOR THE INSTALLATION OF LIGHTNING PROTECTION EQUIPMENT OR MOUNTING HARDWARE SHALL BE SEALED AS NECESSARY WITH 1 HOUR RATED FIRE RETARDANT AND WATER TIGHT SEAL IN ACCORDANCE WITH THE ROOFING SYSTEM MANUFACTURERS INSTRUCTIONS.
- LIGHTNING PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED BY A LICENSED PROFESSIONAL LIGHTNING PROTECTION CONTRACTOR. INCLUDE ALL PROVISIONS, MATERIALS, AND LABOR FOR A COMPLETE LIGHTNING GROUNDING SYSTEM TO PROTECT THE STRUCTURE, SYSTEMS, AND EQUIPMENT FROM THE THREAT OF OCCASIONAL LIGHTNING STRIKES.
- COORDINATE SYSTEM COMPONENTS WITH ROOF MATERIAL AND FINISHES TO ENSURE CODE COMPLIANCE OF SIMILAR METAL TYPES. COORDINATE AND ROUTE DOWN CONDUCTORS AT STRUCTURAL COLUMNS FOR CONNECTION TO GROUND. INSTALLATION OF LIGHTNING PROTECTION SYSTEM SHALL NOT VOID THE ROOF WARRANTY.
- PROVIDE ATTACHMENT DETAIL FOR LIGHTNING ARRESTOR TO PRE-FAB METAL ROOF IN SUBMITTAL. COORDINATE ALL LIGHTNING ARRESTOR LOCATIONS WITH ARCHITECTURAL AND MECHANICAL PLANS. VERIFY THAT AIR TERMINAL PATHWAY AND CONDUCTOR DOES NOT CONFLICT WITH ROOF FALL PROTECTION SYSTEM.
- PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM WITH A UL LIGHTNING PROTECTION INSPECTION CERTIFICATE CERTIFIED TO UL 96A, INCLUDING, BUT NOT NECESSARILY LIMITED TO, STRIKE TERMINATION DEVICES, CONDUCTORS, GROUND TERMINALS, INTERCONNECTING CONDUCTORS, SURGE SUPPRESSION DEVICES, AND OTHER CONNECTORS AND FITTINGS REQUIRED FOR A COMPLETE AND USABLE SYSTEM.
- DOWN CONDUCTORS SHALL BE ALLOWED WITHIN THE COLUMN OR SURFACE MOUNTED ALONG THE COLUMN. SURFACE MOUNTING SHALL USE CONDUCTOR IN CONDUIT AS WIRING METHOD.

GENERAL SHEET NOTES

- REFER TO THE ELECTRICAL COVER SHEET DRAWING E0.01 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND DRAWING E5.01 FOR POWER RISER DIAGRAM, E6.01 FOR MECHANICAL/PLUMBING SCHEDULES AND DRAWING E6.02 TO E6.06 FOR PANEL SCHEDULES.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHT AND ADDITIONAL INFORMATION FOR POWER AND OUTLETS PRIOR TO ROUGH-IN WORK AND INSTALLATION.
- COORDINATE ALL FLOOR, WALL AND CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION FOR POWER CONNECTION ASSOCIATED WITH MECHANICAL PLUMBING EQUIPMENT PRIOR TO ROUGH-IN.
- ALL OUTLETS ON EMERGENCY CIRCUITS SHALL BE IN COLOR.
- ALL RECEPTACLES, TELECOMMUNICATION OUTLETS WITH ASSOCIATED WIRING SHALL BE RECESSED.
- SURFACE MOUNTED OUTLETS SHALL BE PROVIDED WHEREVER THERE IS A MASONRY WALL. WIRING METHODS SHALL BE CONDUCTORS IN CONDUIT. COORDINATE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
- ALL PULL BOXES SHALL REMAIN ACCESSIBLE FOR MAINTENANCE.
- CABLES WITHIN RISERS MUST BE FIRE RATED IN ORDER TO PREVENT THE SPREAD OF FIRE BETWEEN FLOORS. FIRE RATED WIRING SHALL BE FASTENED IN PLACE AT INTERVALS NOT LESS THAN MANUFACTURER'S RECOMMENDATIONS, OR NOT LESS THAN SPECIFIED IN NEC TABLE 300.19(A), WHICHEVER IS MORE STRINGENT.
- ALL FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING.
- COORDINATE WITH ARCHITECT AND OTHER TRADES FOR CLEARANCE REQUIREMENTS AND ACCESS PANELS.
- ALL RECEPTACLE OUTLETS WITHIN 6' OF THE EDGE OF A SINK MUST BE GFI TYPE.
- MOUNTING HEIGHT OF ELECTRICAL DEVICES, OTHER OUTLETS AND THE ELECTRICAL PANEL'S TOP MOST BREAKER SHALL BE NO MORE THAN 48 INCHES A.F.F IN ACCESSIBLE UNITS.

KEYED SHEET NOTES

- JUNCTION BOX FOR MOTORIZED DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF MOTORIZED DAMPER PRIOR TO INSTALLATION.
- PROVIDE UNISTRUT SUPPORT FOR DISCONNECT SWITCHES.
- 150KW, 208/120V, 3PH, 4W, NATURAL GAS ENGINE EMERGENCY/STANDBY GENERATOR EQUIPPED INSTALLED ON 6" CONCRETE PAD, OR ON A DUNNAGE SYSTEM. COORDINATE LOCATION AND INSTALLATION DETAILS WITH ARCHITECT AND STRUCTURAL.
- VFD WITH BUILT-IN DISCONNECT PROVIDED WITH MECHANICAL UNIT AND WIRED VIA VFD CONTROLLER. PROVIDE ALL REQUIRED INSTALLATION ACCESSORIES AND SUPPORTS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO INSTALLATION.
- PROVIDE UNISTRUT SUPPORT FOR DISCONNECT SWITCHES AND WIRE TROUGH.
- PLACE GROUNDING RODS AT NO LESS THAN 24" FROM FACE OF THE FOUNDATION FOOTING. GROUNDING RODS SHALL BE MINIMUM 3/4" DIAMETER AND LENGTH AT NO LESS THAN 10 FEET.

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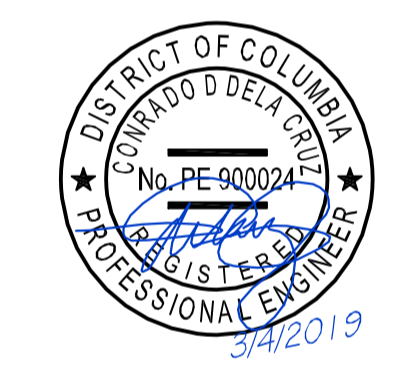
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 714 7th Street, SE
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 Phone: 202-543-6550



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Issues / Revisions

11/20/2018	Schematic Design Submission
02/08/2019	Design Development Drawing Set
03/04/2019	Permit Comments

Ward 1 STFH & PSH
 2500 14th Street NW
 Washington DC 20009

CQA#21811

Drawing Title

ROOF LEVEL PLAN - ELECTRICAL POWER

Scale 1/8" = 1'-0"

Date 01/28/19

E2.04

NOT FOR CONSTRUCTION

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with ~~PLAN~~ ~~FOR~~ ~~OPERATIONS~~ ~~ONLY~~ Permits are required for trade work. e.g. Electrical or Plumbing

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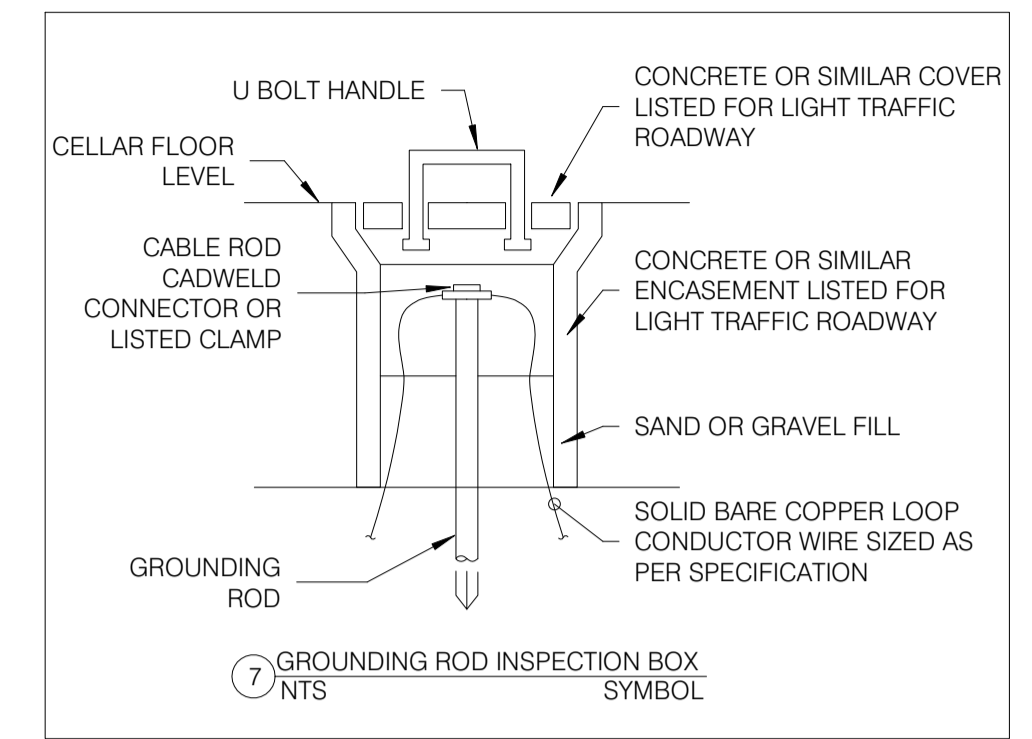
Drawing Title

ELECTRICAL DETAILS
 - LIGHTNING
 PROTECTION

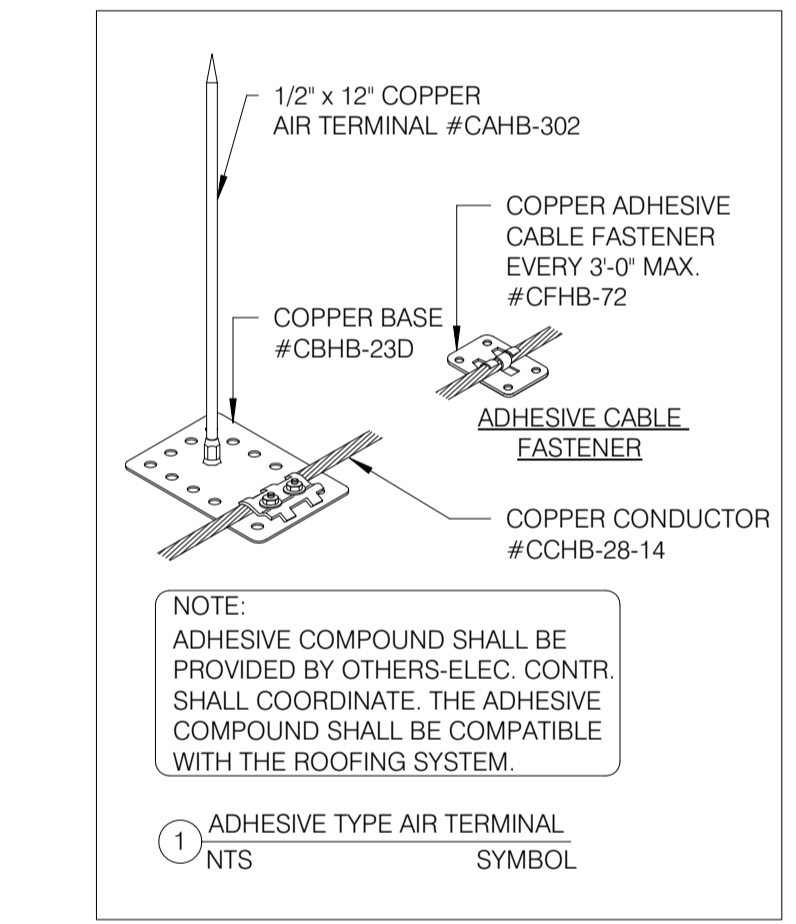
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 Date: 01/28/19
 Drawn By: CQA
 Checked By: CQA

E8.03

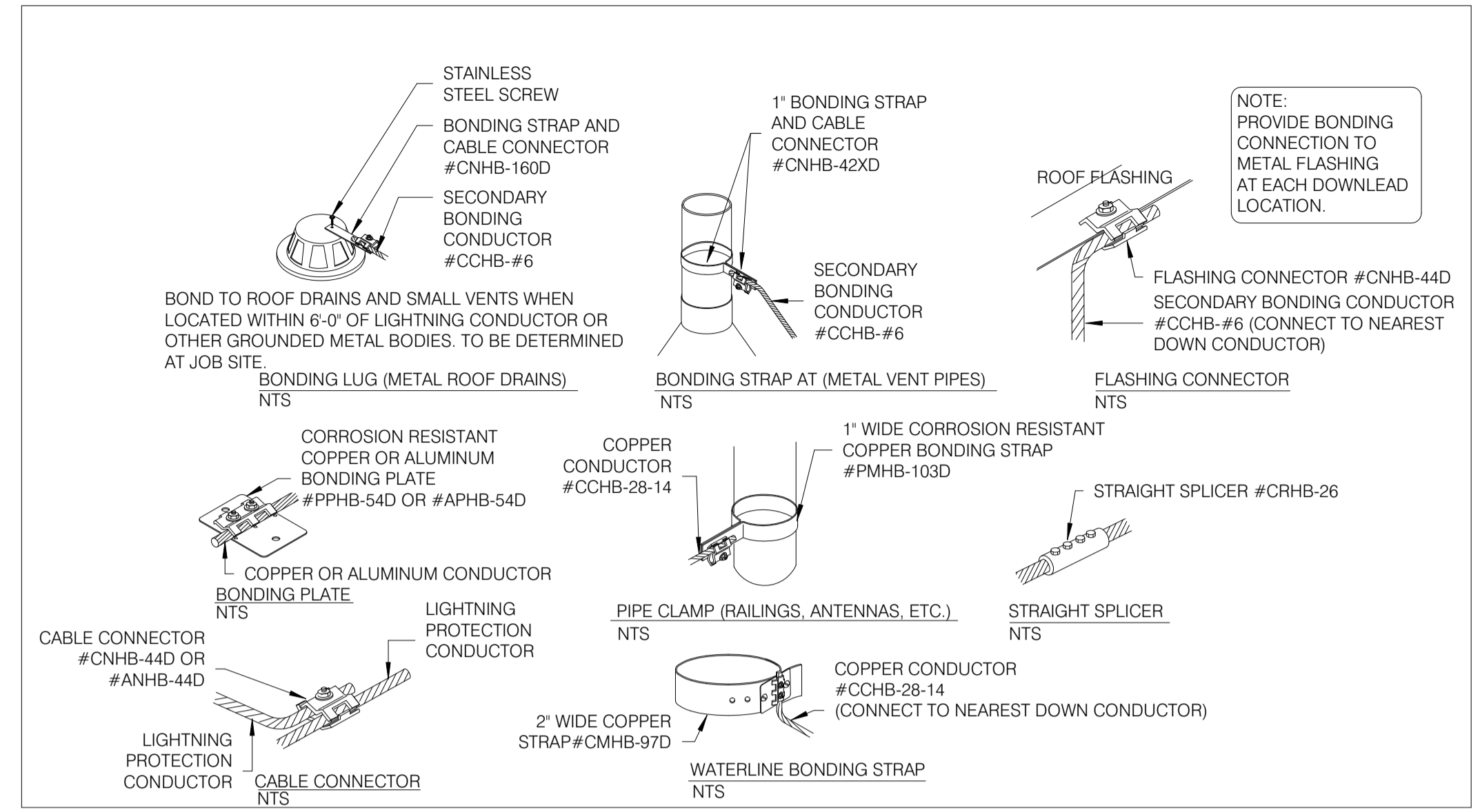
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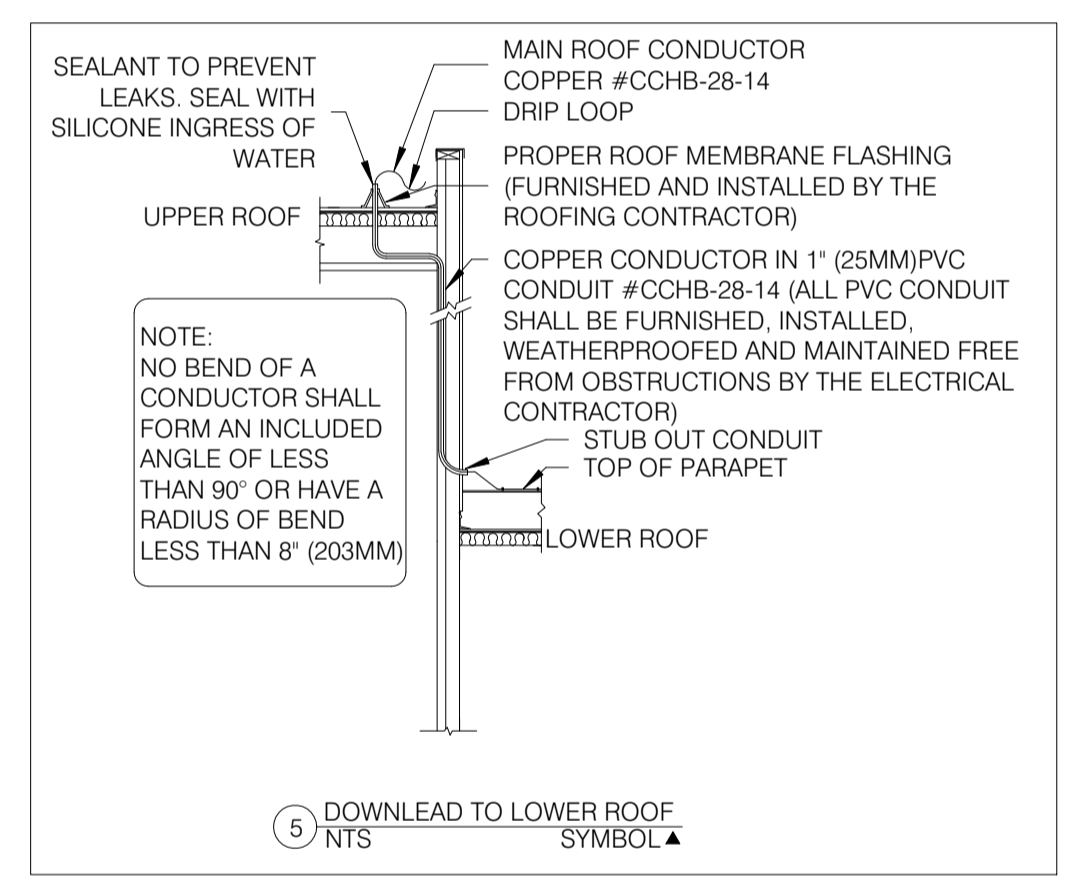
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 NO SCALE



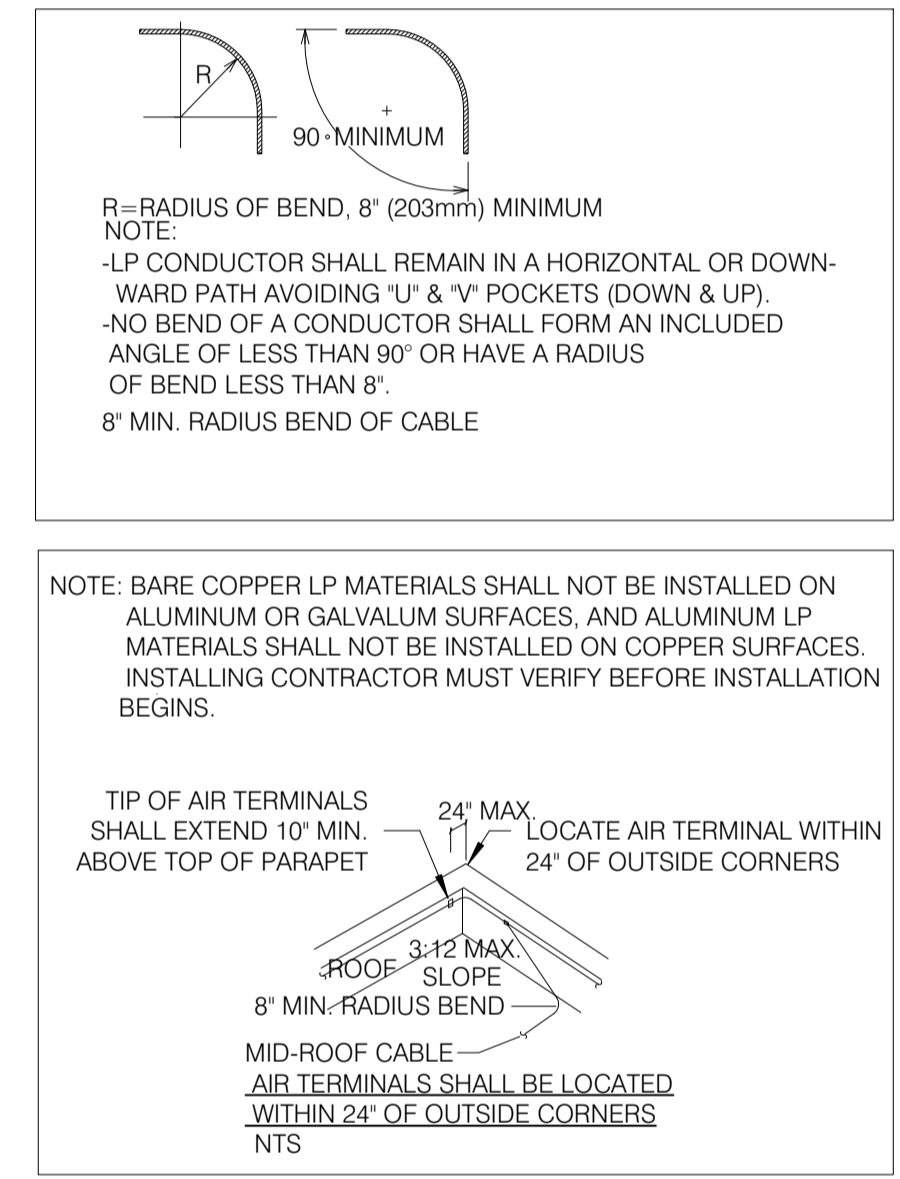
2
 E8.03 ADHESIVE TYPE AIR TERMINAL
 NO SCALE



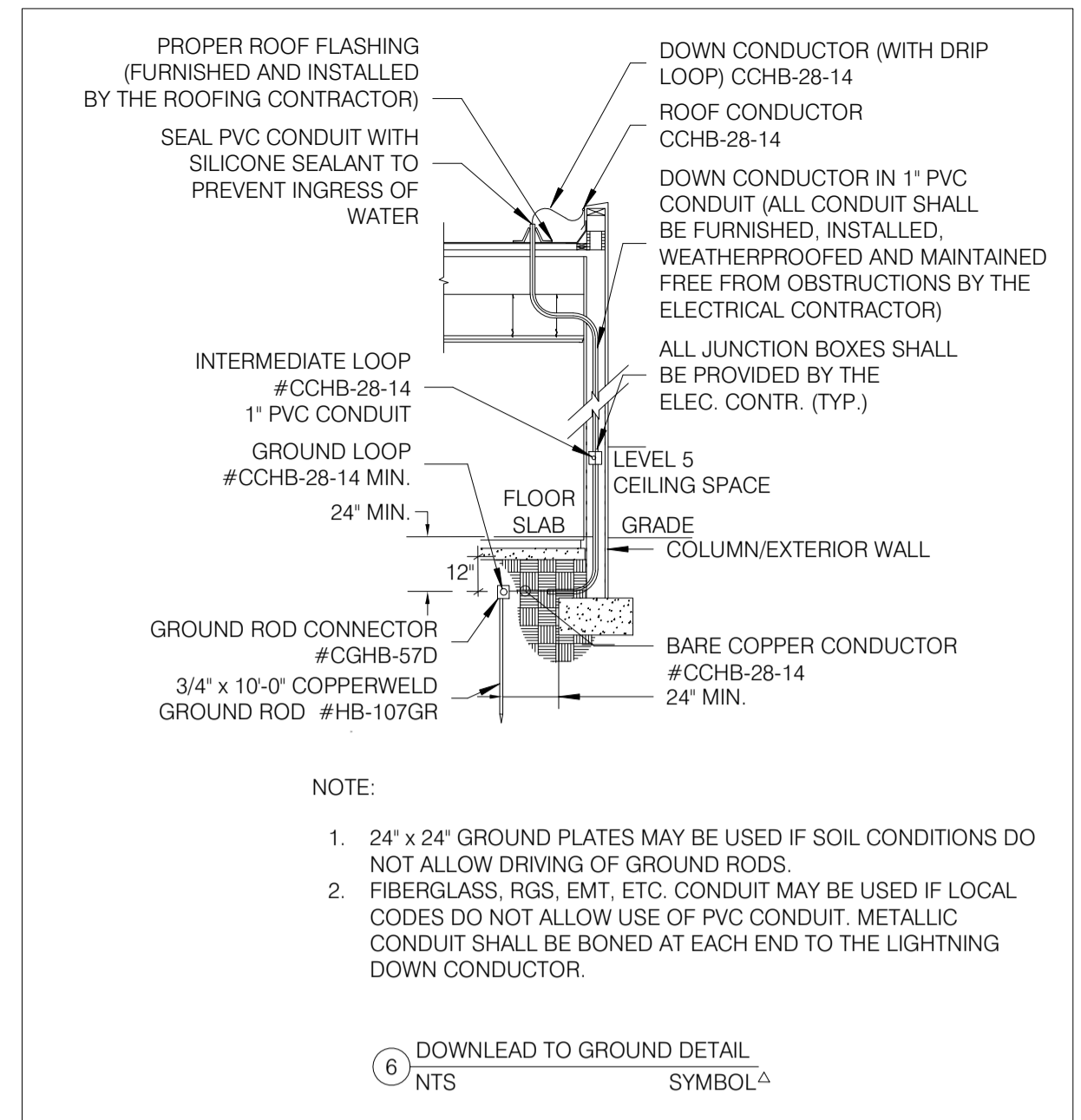
3
 E8.03 WATERLINE BONDING STRAP
 NO SCALE



4
 E8.03 DOWNLEAD TO LOWER ROOF
 NO SCALE



5
 E8.03 AIR TERMINALS SHALL BE LOCATED WITHIN 10' OF OUTSIDE CORNERS
 NO SCALE



6
 E8.03 DETAILS DOWNLEAD TO GROUND DETAIL
 NO SCALE

LIGHTNING PROTECTION NOTES

- ALL MATERIALS SHOWN ARE MANUFACTURED BY HEARY BROS. LIGHTNING PROTECTION CO., INC. T. 716-941-6141 EMAIL: sales@hearybros.com
- THE LIGHTNING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH UL96A & NFPA-780 LIGHTNING PROTECTION SYSTEM STANDARDS.
- CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM 'U' OR 'V' DOWN AND UP POCKETS.
- NO BEND OF CONDUCTOR SHALL FORM AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8'.
- AIR TERMINALS SHALL BE SPACED EVERY 20'-0" MAXIMUM AROUND THE ROOF PERIMETER AND/OR ALONG ROOF RIDGES. AIR TERMINALS SHALL BE LOCATED WITHIN 2'-0" OF OUTSIDE CORNERS.
- AIR TERMINALS SHALL BE SPACED EVERY 50'-0" MAXIMUM IN CENTER ROOF AREAS.
- ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUND ROD LOCATIONS.
- BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVALUM SURFACES, AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED EVERY 3'-0" MAX.
- ALL BOLTS ON BOLT-PRESSURE CONNECTORS SHALL BE TORQUED AT 150 FT-LB.
- ALL CONNECTIONS MUST BE USED WITH UL LISTED CABLE OF SAME METAL TYPE.
- METALLIC BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUNDING.
- BOND ALL LARGE METAL BODIES TO THE MAIN LIGHTNING PROTECTION CONDUCTOR. (I.E.: EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, HVAC UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS AND ANY OTHER LARGE METAL BODY WHOSE HEIGHT EXCEEDS THAT OF THE AIR TERMINAL IN USE, UNLESS PROTECTED BY HIGHER ROOF ELEVATIONS).
- CONNECTIONS TO GROUND RODS SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW FINISHED GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
- BOND TO WATERLINES (DOMESTIC & FIRE).
- A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA DISCHARGE UNIT SHALL BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE AND RADIO AND TELEVISION ANTENNA LEAD-IN BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH NFPA-70.
- TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) OF SERVICES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. (I.E. COMPUTERS, COPIERS, TELEPHONE, ETC.).
- PROVIDE UL MASTER LABEL CERTIFICATION UPON COMPLETION OF INSTALLATION.

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
- CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
- CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
- BEFORE POURING CONCRETE FLOORS INSTALL ALL REQUIRED SLEEVES.
- DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER, AND PERFORM CUTTING IN A MANNER AS DIRECTED BY A/E.
- PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE 2" ABOVE FINISHED FLOOR.
- PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETELY AS SPECIFIED ON DRAWINGS.
- PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND ANGLE STOPS ON HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
- FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN TO BE FLUSH WITH FINISHED FLOOR.
- MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES. SET AT 105 DEGREES F.
- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
- MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH, PLASTER, DIRT AND OTHER DEBRIS.
- TEST ALL SYSTEMS. ALL FIXTURES SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
- ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES AND FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, EQUIPMENT, LAYOUT DRAWINGS, AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
- CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM. (INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
- ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
- CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
- VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
- CONTRACTOR SHALL SLEEVE ALL PIPING CROSSING THROUGH OR UNDERNEATH STRUCTURAL MEMBERS. NOTIFY ARCHITECT AND ENGINEERS PRIOR TO PROCEEDINGS WITH WORK TO ASSURE STRUCTURAL SUPPORT WILL NOT BE AFFECTED.
- DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
- ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
- ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
- ALL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
- ALL ILLUSTRATED DRAINAGE PIPING IS BELOW THE FLOOR ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER AND VENT PIPING ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED.
- PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR EQUIVALENT.
- THE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.
- DOMESTIC WATER PIPE INSULATION SHALL BE PROVIDED WITH A MINIMUM THERMAL RESISTANCE (R-VALUE) OF R-3.

WATER SUPPLY INFORMATION

DATE : 08/31/2018
 STATIC PRESSURE : 67 PSI
 RESIDUAL PRESSURE : 62 PSI
 FLOW : 2,646 GPM
 HYDRANT ELEVATION : 171 FT
 LOCATION OF TEST HYDRANT : 14TH ST. INT EUCLUID ST NW SWC
 HYDRANT : H06979

MAIN SIZE: 12 - INCH.

PLUMBING SYMBOLS

ANNOTATIONS

- DOMESTIC WATER RISER DESIGNATION
- SANITARY WATER RISER DESIGNATION
- STORM RISER DESIGNATION
- EMERGENCY STORM RISER DESIGNATION
- GREEN STORM RISER DESIGNATION
- EMERGENCY GREEN STORM RISER DESIGNATION
- VENT RISER DESIGNATION
- GAS RISER DESIGNATION
- REVISION NUMBER
- PIPE SIZE
- PIPE SIZE/NOTE

DETAIL ANNOTATIONS

- 1 - DETAIL NUMBER
P7.01 - WHERE THE DETAIL IS DRAWN
- 2 - DETAIL NUMBER
P1.01 - WHERE THE DETAIL IS DRAWN

DRAINS

- AREA DRAIN
- FLOOR DRAIN
- OVER FLOW ROOF DRAIN
- OVER FLOW ROOF DRAIN-GREEN ROOF
- ROOF DRAIN
- ROOF DRAIN-GREEN ROOF
- EMERGENCY ROOF DRAIN
- EMERGENCY ROOF DRAIN-GREEN ROOF
- GARAGE DRAIN
- FLOOR CLEAN OUT
- GRADE CLEAN OUT
- FLOOR SINK DRAIN
- TRENCH DRAIN
- OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HORIZONTAL CLEANOUT
- WALL HYDRANT
- ROOF HYDRANT
- GARDEN HYDRANT
- HOSE BIB
- GAS METER
- WATER METER
- WATER FILTER
- VACUUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- TRAP PRIMER
- DIRT LEG
- BREAK PIPE BELOW

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

ABBREVIATIONS

- | | | | |
|--------|--|--------|--------------------------------|
| AAV | AIR ADMITTANCE VALVE | MAX | MAXIMUM |
| ABV | ABOVE | MBH | THOUSAND BTU PER HOUR |
| AD | AREA DRAIN | MECH | MECHANICAL |
| ADA | AMERICAN DISABILITY ACT | MFR | MANUFACTURER |
| AFF | ABOVE FINISHED FLOOR | MIN | MINIMUM |
| AP | ACCESS PANEL | MS | MOP SINK |
| ARCH | ARCHITECTURAL | MTD | MOUNTED |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS | N | NEW |
| ASPE | AMERICAN SOCIETY OF PLUMBING ENGINEERS | NC | NORMALLY CLOSED |
| ASSE | AMERICAN SOCIETY OF SANITARY ENGINEERS | NFWH | NON FREEZE WALL HYDRANT |
| | | NG | NATURAL GAS |
| | | NIC | NOT IN CONTRACT |
| | | NO. | NUMBER |
| | | NO | NORMALLY OPEN |
| BLDG | BUILDING | ORD | OVERFLOW ROOF DRAIN |
| BLW | BELOW | ORD(G) | OVERFLOW ROOF DRAIN-GREEN ROOF |
| BTU | BRITISH THERMAL UNIT | OSD | OPEN SITEDRAIN |
| BTUH | BRITISH THERMAL UNIT PER HOUR | | |
| BWV | BACK WATER VALVE | P | PUMP |
| | | PD | PLANTER DRAIN |
| CA | COMPRESSED AIR | PDD | POOL DECK DRAIN |
| CFM | CUBIC FEET PER MINUTE | PDI | PLUMBING AND DRAINAGE |
| CLG | CEILING | PH | PHASE (ELECTRICAL) |
| CM | CLEAN OUT | PRV | PRESSURE REDUCING VALVE |
| CONT | CONTINUATION | PSI | POUNDS PER SQUARE INCH |
| CW | COLD WATER | | |
| | | REF | REFRIGERATOR |
| DD | DECK DRAIN | RD | ROOF DRAIN |
| DFU | DRAINAGE FIXTURE UNIT | RD(G) | ROOF DRAIN-GREEN ROOF |
| DIA | DIAMETER | RH | ROOF HYDRANT |
| DN | DOWN | RR | REVOLUTIONS PER MINUTE |
| DWG | DRAWING | RW | RAIN WATER REUSE |
| DWH | DOMESTIC WATER HEATER | | |
| DF | DRINKING FOUNTAIN | | |
| | | SA | SHOCK ABSORBER |
| E | EXISTING | SAN | SANITARY/WASTE PIPE |
| EA | EACH | SF | SQUARE FEET |
| EQUIP | EQUIPMENT | SFU | SUPPLY FIXTURE UNIT |
| ERD | EMERGENCY ROOF DRAIN | SS | SERVICE SINK |
| ERD(G) | EMERGENCY ROOF DRAIN-GREEN ROOF | ST | STORM WATER |
| EST | EMERGENCY STORM | ST(G) | STORM-FROM GREEN ROOF |
| EST(G) | EMERGENCY STORM-FROM GREEN ROOF | STRUC | STRUCTURAL |
| ET | EXPANSION TANK | | |
| ETR | EXISTING TO REMAIN | TD | TRENCH DRAIN |
| | | TEMP | TEMPERATURE |
| F | WATER FILTER | TMV | THERMOSTATIC MIXING VALVE |
| FCO | FLOOR CLEAN OUT | TP | TRAP PRIMER TUBE |
| FD | FLOOR DRAIN | TW | TEMPERED WATER |
| FL | FLOOR | TYP | TYPICAL |
| FS | FLOOR SWITCH | | |
| FT | FEET | UR | URNAL |
| FM | FORCED MAIN | | |
| | | V | VENT PIPE |
| GAL | GALLON | VTR | VENT THRU ROOF |
| GCO | GRADE CLEAN OUT | | |
| GD | GARBAGE DISPOSAL | W | WATT |
| GD | GARAGE DRAIN | WC | WATER CLOSET |
| GH | GARDEN HYDRANT | WCO | WALL CLEANOUT |
| GPM | GALLONS PER MINUTE | WH | WALL HYDRANT |
| | | WM | WATER METER |
| HB | HOSE BIB | WTR | WATER |
| HDPE | HIGH DENSITY POLYETHYLENE | W/ | WITH |
| HP | HORSE POWER | W/O | WITHOUT |
| HW | HOT WATER SUPPLY | | |
| HWR | HOT WATER RETURN | | |
| | | | |
| IN | INCH | | |
| INV | INVERT | | |
| KW | KILOWATT | | |
| LAV | LAVATORY | | |

PLUMBING DRAWING LIST

SHEET	DRAWING	TITLE
1	P0.01	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	P0.99	FOUNDATION PLAN - PLUMBING
3	P1.00	P1 LEVEL PLAN - PLUMBING
4	P1.01	GROUND FLOOR PLAN - PLUMBING
5	P1.02	2ND THRU 4TH FLOOR PLAN - PLUMBING
6	P1.03	5TH FLOOR PLAN - PLUMBING
7	P1.04	ROOF LEVEL PLAN - PLUMBING
8	P4.01	PLUMBING TYPICAL UNIT ENLARGED PLANS
9	P4.02	PLUMBING TYPICAL UNIT ENLARGED PLANS
10	P4.03	PLUMBING TYPICAL UNIT ENLARGED PLANS
11	P4.04	PLUMBING TYPICAL UNIT ENLARGED PLANS
12	P4.05	PLUMBING TYPICAL UNIT ENLARGED PLANS
13	P4.06	PLUMBING TYPICAL UNIT ENLARGED PLANS
14	P4.07	PLUMBING TYPICAL UNIT ENLARGED PLANS
15	P5.01	PLUMBING DOMESTIC WATER RISER DIAGRAM
16	P5.02	PLUMBING DOMESTIC WATER RISER DIAGRAM
17	P5.03	PLUMBING DOMESTIC WATER RISER DIAGRAM
18	P5.04	PLUMBING SANITARY RISER DIAGRAM
19	P5.05	PLUMBING SANITARY RISER DIAGRAM
20	P5.06	PLUMBING SANITARY RISER DIAGRAM
21	P5.07	PLUMBING GAS RISER DIAGRAM
22	P5.08	PLUMBING STORM RISER DIAGRAM
23	P5.09	PLUMBING STORM RISER DIAGRAM
24	P6.01	PLUMBING SCHEDULES
25	P7.01	PLUMBING DETAILS
26	P7.02	PLUMBING DETAILS

DESIGN CRITERIA

- 2012 INTERNATIONAL FUEL GAS CODE
- 2013 DISTRICT OF COLUMBIA BUILDING CODE
- 2013 DISTRICT OF COLUMBIA PLUMBING CODE
- 2013 DISTRICT OF COLUMBIA MECHANICAL CODE
- 2013 DISTRICT OF COLUMBIA ENERGY CODE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 PERMIT OPERATIONS DIVISION
 PLANS APPROVED
 Permit No. FD1900028 Date 05/21/19

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Drawing Title

GENERAL NOTES,
 SYMBOLS &
 ABBREVIATIONS

Scale NTS Drawn By CQA

Date 02/08/19 Checked By CQA

P0.01

NOT FOR CONSTRUCTION



GENERAL SHEET NOTES

A.

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PERMIT OPERATIONS DIVISION
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KEYED SHEET NOTES

- 3" DOMESTIC WATER SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION (415 WSFU/108 GPM, INV. ELE:166.0').
- 4" FIRE SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.
- 6" SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION (587 DFU/294 GPM, INV. ELE: 163.00').
- 8" STORM SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION (13,326 SQ.FT /443 GPM, INV. ELE:163.80').
- NATURAL GAS SERVICE BY WASHINGTON GAS.

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Issues / Revisions	
11/20/2018	Schematic Design Submission
01/07/2019	FTG to Grade Submission
02/08/2019	Design Development Drawing Set

Ward 1 STFH & PSH
2500 14th Street NW
Washington DC 20009

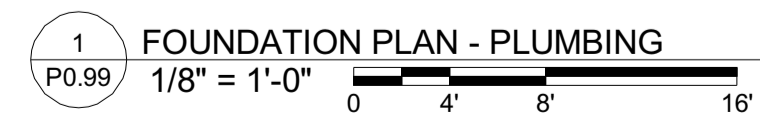
CQA#21811

Drawing Title

FOUNDATION PLAN - PLUMBING

Scale 1/8" = 1'-0"	Drawn By CQA
Date 02/08/19	Checked By CQA

P0.99



NOT FOR CONSTRUCTION