

LOT 800 - SQUARE 3128

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Project:

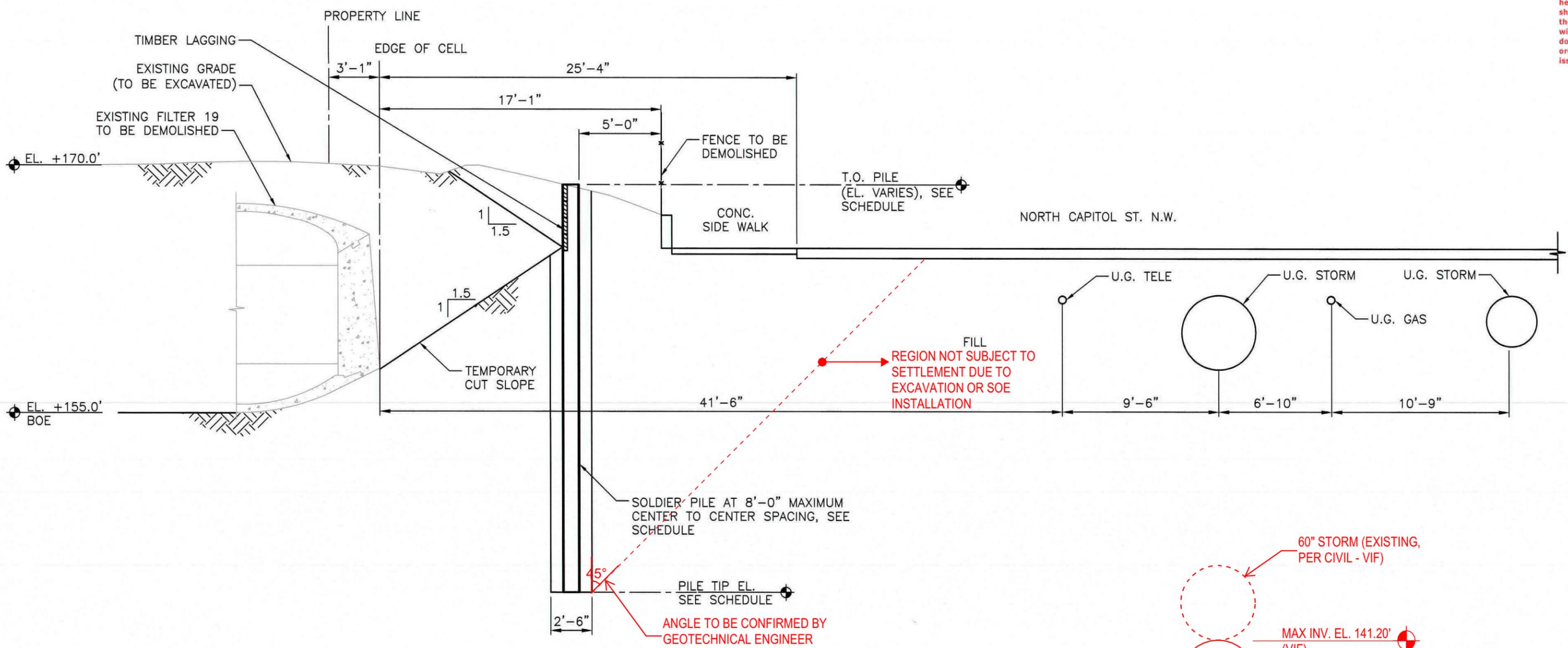
McMILLAN
 EARLY DEMOLITION
 PACKAGE
 LOT 800; SQUARE 3128
 WASHINGTON, DC

05/22/2018	DOEE 3RD SUBMISSION	
01/03/2018	DOEE 2ND SUBMISSION	
No.	Date	Issue/Revision
Designed By:	Drawn By:	Checked By:
MS/MQ	KK	MQ
Project No.: 16-095	Date: 12/11/2017	
Scale: 		

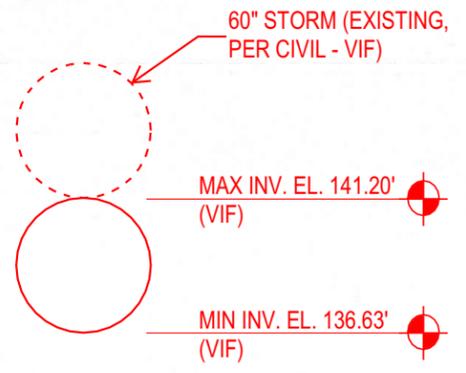
CAUTION!!
 THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

MISS UTILITY
 CALL DC ONE CALL "DOC" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE DISTRICT OF COLUMBIA CODES AND REGULATIONS.

Sheet Title:
ROUGH GRADING POST DEMOLITION
 Sheet No.:
CDM0132



SECTION 9SOD009_2
SOD006_2
 SCALE: 1"=5'-0"



- SHEET NOTES:**
1. INFORMATION ON THIS SECTION IS TAKEN FROM SHEET SOD009_2 OF THE 6/15/16 SOE BRIDGING DOCUMENTS.
 2. SUPPLEMENTAL EXISTING INVERT ELEVATIONS OF THE 60" STORM PIPES WERE PROVIDED BY WILES MENSCH (WMC)
 3. THE PURPOSE OF THIS SECTION IS TO CONVEY THE REGION OF SUBGRADE NOT TO BE DISTURBED AS A RESULT OF SOE INSTALLATION OR SUBSEQUENT EXCAVATION ACTIVITIES.

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL COMPLY WITH THE 2013 DISTRICT OF COLUMBIA PLUMBING CODE (2012 EDITION OF 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 MANUFACTURERS 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 MANUFACTURERS 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 IN HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
- FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN 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 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 MANUFACTURERS 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-68 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 CEILING 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.
- AT FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

SYMBOLS

- MISCELLANEOUS**
- HC HORIZONTAL CLEANOUT
 - WH WALL HYDRANT
 - HB HOSE BIB
 - GM GAS METER
 - WM WATER METER
 - WF WATER FILTER
 - VB VACUUM BREAKER
 - TRP TEMPERATURE AND PRESSURE RELIEF VALVE
 - TP TRAP PRIMER
 - DL DIRT LEG
 - BP BREAK PIPE BELOW

- ANNOTATIONS**
- DELD DOMESTIC WATER RISER DESIGNATION
 - SELD SANITARY WATER RISER DESIGNATION
 - STLD STORM RISER DESIGNATION
 - GLD GAS RISER DESIGNATION
 - REV REVISION NUMBER
- DETAIL ANNOTATIONS**
- #DELD DETAIL NUMBER
 - #STD WHERE THE DETAIL IS DRAWN

SYMBOLS

- PIPE REPRESENTATION**
- CW COLD WATER PIPING
 - HW HOT WATER PIPING
 - HWRT HOT WATER RETURN PIPING
 - TP TRAP PRIMER TUBE
 - SGR SOIL OR WASTE PIPING ABOVE GROUND
 - GR GREASE SANITARY PIPING
 - SGR SOIL OR WASTE PIPING BELOW GROUND
 - ID INDIRECT DRAINAGE PIPE
 - VP VENT PIPING
 - ST STORM WATER PIPING ABOVE GROUND
 - ST STORM WATER PIPING BELOW GROUND
 - G GAS PIPING
 - G GAS PIPE BY WASHINGTON GAS
 - GV GAS VENT PIPING
- PIPE VALVES AND ACCESSORIES**
- RZP REDUCED PRESSURE ZONE BACKFLOW PREVENTER
 - BV BALL VALVE
 - CV CHECK VALVE
 - DCV DOUBLE CHECK VALVE BACKFLOW PREVENTER
 - SV SOLENOID VALVE
 - GV GATE VALVE
 - PRV PRESSURE REDUCING VALVE
 - TMV THERMOSTATIC MIXING VALVE
 - FLV FLUG VALVE
 - BV BALANCING VALVE
 - VRV VACUUM RELIEF VALVE
 - BVP BACKFLOW PREVENTER
 - P PUMP
 - WAH WATER HAMMER ARRESTOR
 - PG PRESSURE GAUGE
 - TG THERMOMETER GAUGE
 - AV AQUASTAT VALVE
 - S STRAINER

- PIPE FITTINGS**
- RI REDUCER/INCREASER
 - CAPPED CONNECTION
 - PIPE UNION
 - ELBOW TURNED UP
 - ELBOW TURNED DOWN
 - TEE UP
 - TEE DOWN
 - SHUT-OFF VALVE IN RISER
- DRAINS**
- AD AREA DRAIN
 - DD DECK DRAIN
 - GRD GREEN ROOF DRAIN
 - PDD POOL DECK DRAIN
 - FD FLOOR DRAIN
 - ORD OVER FLOW ROOF DRAIN
 - RD ROOF DRAIN
 - GD GARAGE DRAIN
 - COTG CLEAN OUT TO GRADE
 - FS FLOOR SINK DRAIN
 - TD TRENCH DRAIN
 - FFD FUNNEL FLOOR DRAIN
 - OSD OPEN SITE DRAIN

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

ABBREVIATIONS

- ABV ABOVE
- AD AREA DRAIN
- ADA AMERICAN DISABILITY ACT
- AFF ABOVE FINISHED FLOOR
- AP ACCESS PANEL
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- ASPE AMERICAN SOCIETY OF PLUMBING ENGINEERS
- ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS
- AV AIR ADMITTANCE VALVE
- BLDG BUILDING
- BTU BRITISH THERMAL UNIT
- BTH BRITISH THERMAL UNIT PER HOUR
- BWV BACKWATER VALVE
- CA COMPRESSED AIR
- CLG CEILING CLEANOUT
- CO CONTINUATION
- CW COLD WATER
- DD DECK DRAIN
- DF DRINKING FOUNTAIN
- DFU DRAINAGE FIXTURE UNIT
- DIA DIAMETER
- DN DOWN
- DW DISH WASHER
- DWG DRAWING
- DWH DOMESTIC WATER HEATER
- E EXISTING
- EST EMERGENCY STORM WATER
- ESTG EMERGENCY STORM-FROM GREEN ROOF
- F WATER FILTER
- FD FLOOR DRAIN
- FDC FIRE DEPARTMENT CONNECTION
- FH FIRE HYDRANT
- FS FLOW SWITCH
- FT FEET
- GAL GALLON
- GCO GRADE CLEANOUT
- GD GARAGE DRAIN
- GPM GALLONS PER MINUTE
- GR GREASE
- HB HOSE BIB
- HDPE HIGH DENSITY POLYETHYLENE
- HP HORSE POWER
- HW HOT WATER SUPPLY
- HWR HOT WATER RETURN
- IM ICE MAKER
- INV INVERT
- LAV LAVATORY
- MAX MAXIMUM
- MBH THOUSAND BTU PER HOUR
- MFR MANUFACTURERS
- MGCV MASTER GAS CONTROL VALVE
- MIN MINIMUM
- MS MCF SINK
- MTD MOUNTED
- N NEW
- NG NATURAL GAS
- NO NUMBER
- NFWH NON FREEZE WALL HYDRANT
- NT ACID NEUTRALIZATION TANK
- OSD OPEN SITE DRAIN
- P PUMP
- POI PLUMBING DRAIN INSTITUTE
- PH PHASE (ELECTRICAL)
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- PDD POOL DECK DRAIN
- RCV RISER CONTROL VALVE
- REF REFRIGERATOR
- RD ROOF DRAIN
- RPM REVOLUTIONS PER MINUTE
- RR RAINWATER REUSE
- SAN SANITARY WASTE PIPE
- SF SQUARE FEET
- SFU SUPPLY FIXTURE UNIT
- SS STAINLESS STEEL
- ST STORM WATER
- STG STORM FROM GREEN ROOF
- TBD TO BE DETERMINE
- TEMP TEMPERATURE
- TMV THERMOSTATIC MIXING VALVE
- TP TRAP PRIMER TUBE
- TRPV TEMPERATURE / PRESSURE RELIEF VALVE
- TW TEMPERED WATER
- TYP TYPICAL
- UR URINAL
- UD UNDERGROUND DRAIN
- VTR VENT THRU ROOF
- WC WATER CLOSET
- WCO WALL CLEANOUT
- WD WASTE DISPOSAL
- WH WALL HYDRANT
- WM WATER METER

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

DESIGN CRITERIA

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

SHEET LIST

DRAWING	TITLE
P-0001	PLUMBING COVER SHEET
P-0101	FIRST FLOOR PLAN
P-0501	PLUMBING RISER DIAGRAMS
P-0601	PLUMBING SCHEDULES
P-0701	PLUMBING DETAILS

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

Plumbing Review - Syed Hashmi - 08-23-2019
 Structural Review - Ebron Debesse - 08-23-2019
 DCEE SE-SW Review - Nykia Barnes - 08-23-2019
 DCEE GAR Review - Nykia Barnes - 08-23-2019
 DC Water Review - Vahid Shvardi - 08-23-2019

DCRA APPROVAL STAMP



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QEA PROJECT #: 31610100

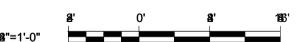
PLUMBING
 COVER
 SHEET



FOUNDATION TO GRADE
 03/03/17

REVISIONS

NO.	DESCRIPTION	DATE



P0001

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 DC Water Review - Vahid Bilvardi - 08-23-2019

GENERAL NOTES

1.

SHEET KEY NOTES

- 4" FLOOR DRAIN FOR POOL BACKWASH PIT.
- FLOW RESTRICTOR
- ACCESS PANEL TO ACCESS FLOW RESTRICTOR

DCRA APPROVAL STAMP



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QEA PROJECT #: 31610100

**PLUMBING
 RISER
 DIAGRAMS**

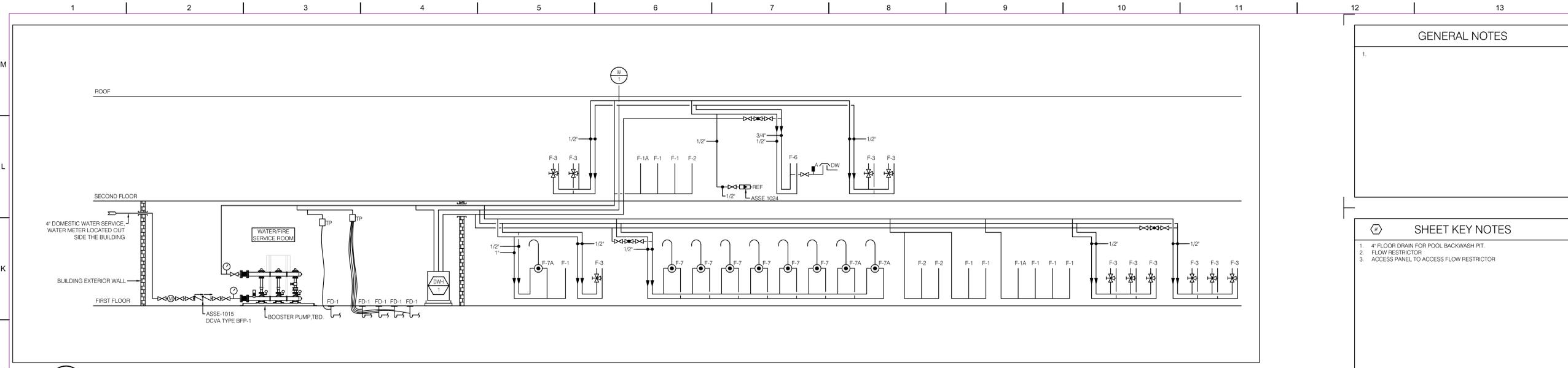


FOUNDATION TO GRADE
 03/03/17

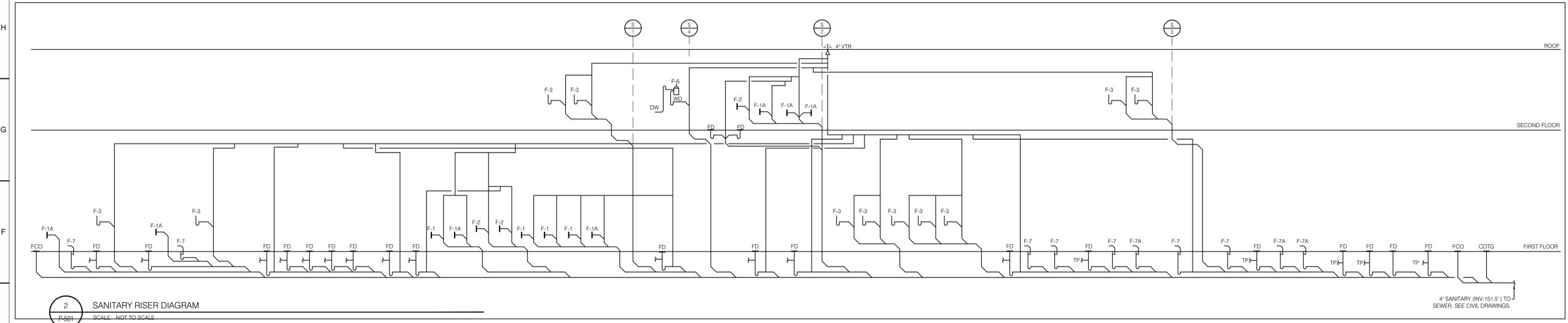
REVISIONS

NO.	DESCRIPTION	DATE

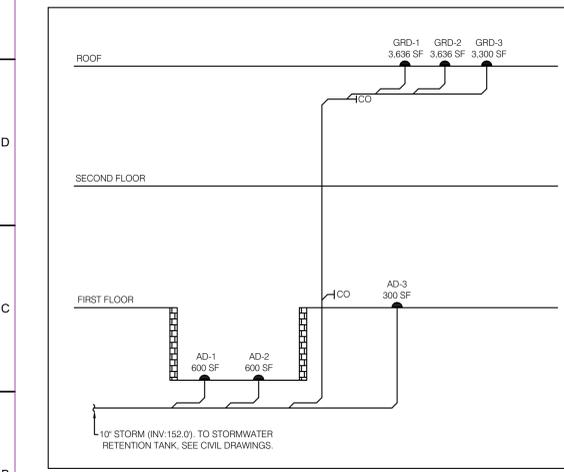
P0501



1 WATER RISER DIAGRAM
 P-501 SCALE: NOT TO SCALE



2 SANITARY RISER DIAGRAM
 P-501 SCALE: NOT TO SCALE



3 STORM RISER DIAGRAM
 P-501 SCALE: NOT TO SCALE

PRIMARY ROOF DRAINS AND VERTICAL LEADER CALCULATION FORM

ROOF DRAIN No.	ROOF AREA (FT ²)	WALL AREA (FT ²)	TOTAL AREA TO BE DRAINED (FT ²)	RAINFALL TO BE DRAINED (FT ³ x IN/DR/FT ²) = IN/HR	CAPACITY PER DRAIN IN/HR X 0.0104 = GPM	SIZE OF ROOF DRAIN / VERTICAL LEADER IN	LOCATION	RISER
TO STORM WATER MANAGEMENT								
GRD-1	1100	100	1200	4800.00	50	4"	ROOF	ST-1
GRD-2	1050	100	1150	4600.00	48	4"	ROOF	ST-1
GRD-3	4400	50	4450	17800.00	185	6"	ROOF	ST-1
GRD-4	4600	50	4650	18600.00	193	6"	ROOF	ST-1
AD-1	600	0	600	2400.00	25	3"	FIRST	
AD-2	600	0	600	2400.00	25	3"	FIRST	
AD-3	300	0	300	1200.00	12	3"	FIRST	
TOTAL			12950					

PLUMBING FIXTURE SCHEDULE														
ID	FIXTURE	ADA	MANUFACTURER	MODEL	FAUCET	LEED FOR SCHOOL 2009 BASE LINE MAX. FLOW REQUIREMENT GPM / GPF	DESIGN BASE FIXTURE FLOW GPM / GPF	DESCRIPTION	MOUNTING	NOTES	PLUMBING FIXTURE ROUGH-IN			
											CW	HW 120 DEG	WASTE	VENT
F-1	WATER CLOSET	NO	-	-	-	1.6 GPF	1.28 GPF	-	WALL MOUNTED	-	1"	-	4"	2"
F-1A	WATER CLOSET	YES	-	-	-	1.6 GPF	1.28 GPF	-	WALL MOUNTED	-	1"	-	4"	2"
F-2	URINAL	YES	-	-	-	1.0 GPF	0.125 GPF	-	WALL MOUNTED	-	3/4"	-	3"	2"
F-3	LAVATORY	YES	-	-	-	0.5 GPM	0.5 GPM	-	WALL MOUNTED	-	1/2"	1/2"	2"	1 1/2"
F-6	KITCHEN SINK	-	-	-	-	-	-	-	-	-	1/2"	1/2"	2"	1 1/2"
F-7	SHOWER	NO	-	-	-	-	1.5 GPM	-	-	-	1/2"	1/2"	2"	1 1/2"
F-7A	SHOWER/ADA	YES	-	-	-	-	1.5 GPM	-	-	-	1/2"	1/2"	2"	1 1/2"
F-8	EMERGENCY EYE WASH	-	-	-	-	-	-	-	-	-	1/2"	1/2"	2"	1 1/2"
WD	WASTE DISPOSER	-	-	-	-	-	-	-	-	-	-	-	-	-
AD	AREA DRAIN	-	-	-	-	-	-	-	-	-	-	-	-	-
FD	FLOOR DRAIN	-	-	-	-	-	-	-	FLOOR FLUSH	-	-	-	4"	2"
RD	ROOF DRAIN	-	-	-	-	-	-	-	-	-	-	-	-	-
GRD	GREEN ROOF DRAIN	-	-	-	-	-	-	-	-	-	-	-	-	-
WH	WALL HYDRANT	-	-	-	-	-	-	-	WALL MOUNTED	-	3/4"	-	-	-
HB	HOSE BIB	-	-	-	-	-	-	-	WALL MOUNTED	-	3/4"	-	-	-
FCO	FLOOR CLEANOUT	-	-	-	-	-	-	-	-	-	-	-	-	-
TP	TRAP PRIMER	-	-	-	-	-	-	-	-	-	1/2"	-	-	-

BACK FLOW PREVENTION					
ID	SERVICE	LOCATION	PREVENTER DESCRIPTION	ASSE #	BASE OF DESIGN/ REMARKS
BFP-1	DOMESTIC WATER SERVICE				
BFP-2	POOL MAKE UP WATER				
WH	WALL HYDRANT	SEE PLUMBING PLANS	DUAL CHECK WITH ATMOSPHERIC PORT	ASSE 1052	SEE PLUMBING FIXTURE SCHEDULE

*NON-TESTABLE DEVICES MUST BE REPLACED EVERY THREE (3) YEARS

PUMP SCHEDULE													
ID	SERVICE	LOCATION	TYPE	PUMP		PUMP SIZE		ELECTRICAL REQUIREMENTS				REMARKS	BASIS OF DESIGN
				GPM	TOTAL HD (FT)	SUCT.	DISCH.	HP	WATTS	V	PH		
P-1	DOMESTIC HOT WATER CIRCULATING PUMP		INLINE										

NOTE-1:

DOMESTIC WATER HEATER SCHEDULE													
ID	DESCRIPTION	LOCATION	TYPE	STORAGE/ GAL.	RECOVERY AT 90°F	1ST HR. RATING	VOLTS	PHASE	KW	BASIS OF DESIGN	REMARKS	EXPANSION TANK (ET)	
DWH	FLOOR MOUNTED DOMESTIC WATER HEATER					0							
PWH	FLOOR MOUNTED POOL WATER HEATER					0							

NOTE 1: WATER DEMAND LOAD DESIGNED TO 13% HIGH TO COMPENSATE LESS VOLTS (208V) AVAILABILITY IN THE BUILDING. HOT WATER DEMAND REQUIRES 3.25 KW UNIT WHEREAS THE UNIT SELECTED IS 4.5 KW RATED, SINCE 208 VOLTS SUPPLY DE-RATES POWER TO 3.375 KW

PEAK DOMESTIC WATER DEMAND AND SANITARY LOAD													
FIXTURE TYPE	OCCUPANCY	TYPE OF SUPPLY CONTROL	QUANTITY	LOAD (CWFU)	LOAD (HWFU)	TOTAL	TOTAL (COLD)	TOTAL (HOT)	TOTAL (SFU)	LOAD (DFU)	TOTAL (DFU)		
BATHROOM GROUP	PRIVATE	FLUSH TANK	0	2.7	1.5	3.6	0	0	0	5	0		
BATHROOM GROUP	PRIVATE	FLUSHMETER VALVE	0	6	3	8	0	0	0	6	0		
DISHWASHER	PRIVATE	AUTOMATIC	0	0	1.4	1.4	0	0	0	2	0		
DISHWASHER	PUBLIC	AUTOMATIC	1	0	1.4	1.4	0	1.4	1.4	2	2		
KITCHEN SINK	PRIVATE	FAUCET	0	1	1	1.4	0	0	0	2	0		
DRINKING FOUNTAIN	PUBLIC	3/8" VALVE	0	0.25	0	0.25	0	0	0	0.5	0		
KITCHEN SINK	PUBLIC	FAUCET	1	3	3	4	3	3	4	2	2		
LAVATORY	PUBLIC	FAUCET	11	1.5	1.5	2	16.5	16.5	22	1	11		
SERVICE SINK	PUBLIC	FAUCET	0	2.25	2.25	3	0	0	0	2	0		
SHOWER HEAD	PUBLIC	MIXING VALVE	10	3	3	4	30	30	40	2	20		
EMERGENCY EYE WASH	PUBLIC	MIXING VALVE	1	3	3	4	3	3	4	2	2		
URINAL	PUBLIC	1" FLUSH	0	10	0	10	0	0	0	2	0		
URINAL	PUBLIC	3/4" FLUSH	3	5	0	5	15	0	15	2	6		
URINAL	PUBLIC	FLUSH TANK	0	3	0	3	0	0	0	1	0		
WASHING MACHINE (8 LB)	PRIVATE	AUTOMATIC	0	1	1	1.4	0	0	0	2	0		
WASHING MACHINE (8 LB)	PUBLIC	AUTOMATIC	0	2.25	2.25	3	0	0	0	2	0		
WASHING MACHINE (15 LB)	PUBLIC	AUTOMATIC	0	3	3	4	0	0	0	2	0		
WATER CLOSET	PUBLIC	FLUSHMETER VALVE	11	10	0	10	110	0	110	4	44		
WATER CLOSET	PUBLIC	FLUSH TANK	0	5	0	5	0	0	0	4	0		
FIXTURE	DRAIN SIZE	3"	0	0	0	0	0	0	0	5	0		
FIXTURE	DRAIN SIZE	4"	22	0	0	0	0	0	0	6	132		
HOSE BIB/ROOF HYDRANT	GENERAL	AUTOMATIC	3	3	0	3	9	0	9	0	0		
TOTAL CWFU (COLD)											187		
TOTAL HWFU (HOT)											54		
TOTAL WSFU											205 SFU		
TOTAL DFU											219 DFU		
ESTIMATED DEMAND FOR WSFU											86 GPM		
POOL MAKE UP (ASSUMED): 50 GPM											50 GPM		
TOTAL ESTIMATED DEMAND											136 GPM		
WATER SERVICE LINE											3"		

DWH-1 (PUBLIC)					
ID	FIXTURE	QTY	TOTAL LOAD (GAL/H)	TOTAL GALLONS (GAL/H)	
(110° F)	Lavatory-Public	11	6	66	Total Recovery Demand
(110° F)	Lavatory-Private	0	2	0	Minimum storage:
(140° F)	3-compartment sink (1 fill per hour)	0	100	0	Effective Storage Capacity:
(110° F)	Kitchen Sink	1	10	10	First Hour Delivery:
(120° F)	Dish Washer	1	50	50	
(120° F)	Washing Machine (two cycles)	0	28	0	
(110° F)	Bath Tub	0	20	0	
(120° F)	Service Sink	0	20	0	
(110° F)	Shower (Public)	10	150	1500	
(110° F)	Emergency eye wash	1	150	150	
Total Hot Water Fixture Demand:			1776		Selected Water Heater:
					Selected Storage:
					Water Heater Storage Capacity
					Gal.
					Selected Storage:
					Gal.
					Total Storage:
					Gal.
Demand Factor:			0.30		Recovery: @90°F
Storage Capacity Factor:			0.90		Total Available 140° Hot Water
					0 Gal/hr.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 PERMIT OPERATIONS DIVISION
 PLANS APPROVED
 Permit No. FD1800040 Date 08/23/19

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Plumbing Review - Syed Hashmi - 08-23-2019
 Structural Review - Bilal Debesari - 08-23-2019
 DCEE SE-SW Review - Nykia Barnes - 08-23-2019
 DCEE GAR Review - Nykia Barnes - 08-23-2019
 DC Water Review - Vahid Elvardi - 08-23-2019

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McMillan Community Center

2940 N Capitol St NW
 Washington, DC 20002

QEA PROJECT #: 31610100

PLUMBING SCHEDULES



FOUNDATION TO GRADE
 03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

P0601

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QEA PROJECT #: 31610100

**PLUMBING
 DETAILS**

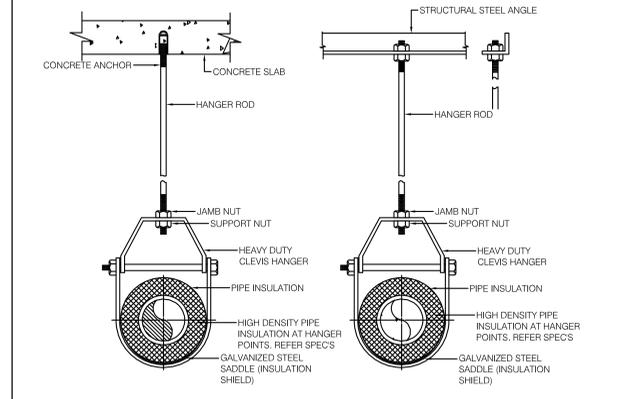


FOUNDATION TO GRADE
 03/03/17

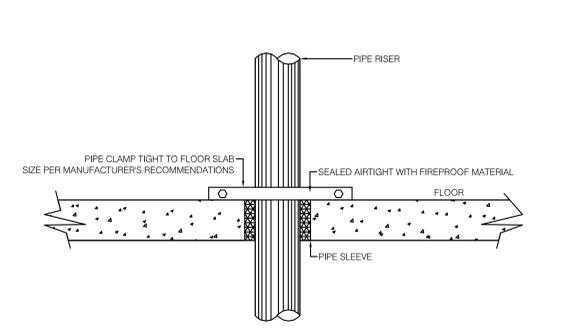
REVISIONS

NO.	DESCRIPTION	DATE

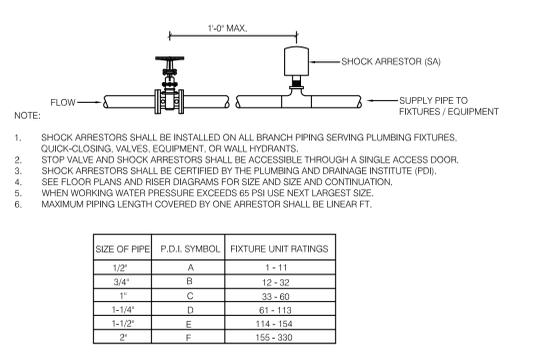
P0701



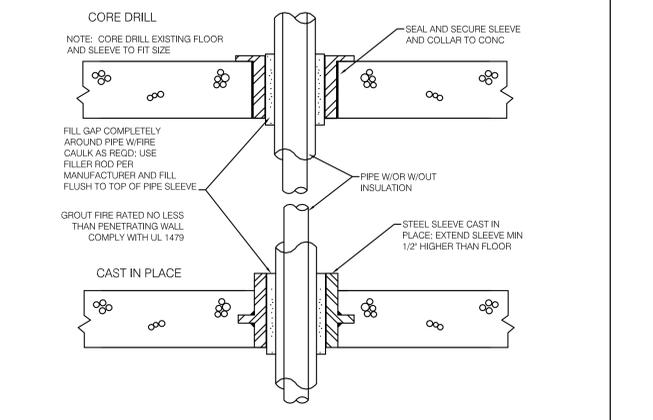
1 PIPE SUPPORT DETAIL
 SCALE: NOT TO SCALE



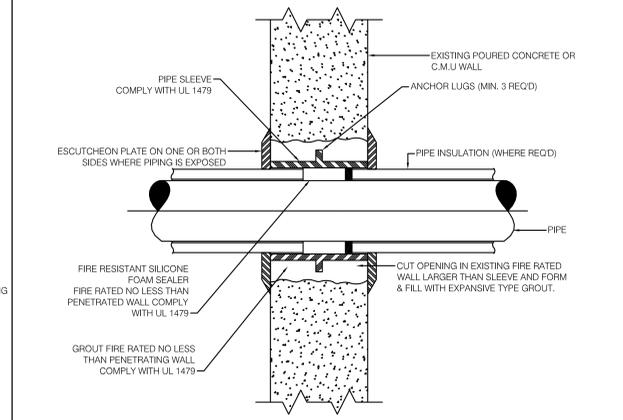
4 PIPE ANCHOR DETAIL
 SCALE: NOT TO SCALE



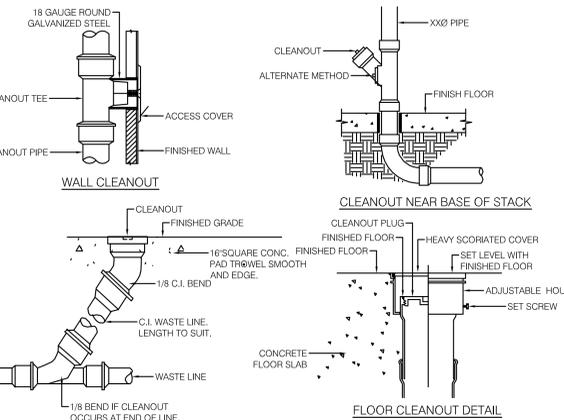
7 SHOCK ABSORBER WATER HAMMER ARRESTOR DETAIL
 SCALE: NOT TO SCALE



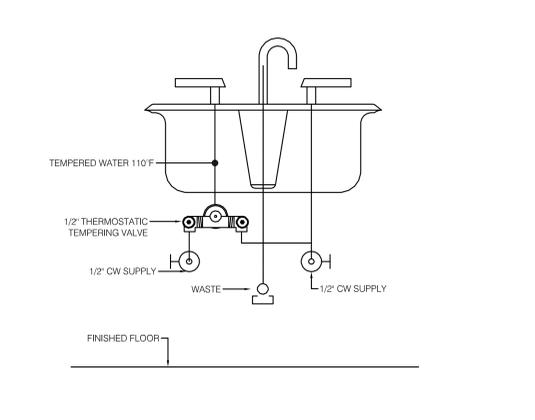
10 PIPE PENETRATION THROUGH CONCRETE
 SCALE: NOT TO SCALE



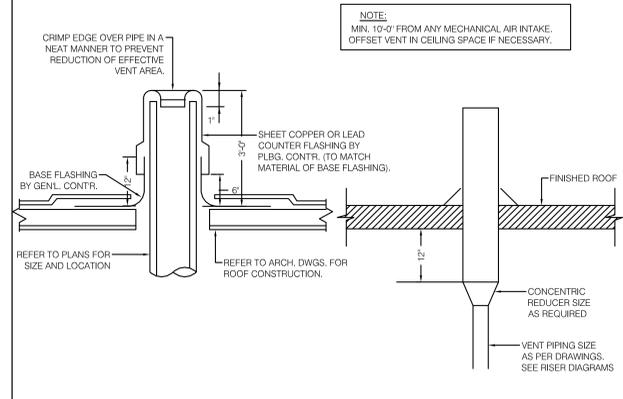
2 PIPE PENETRATION THROUGH FIRE RATED WALLS
 SCALE: NOT TO SCALE



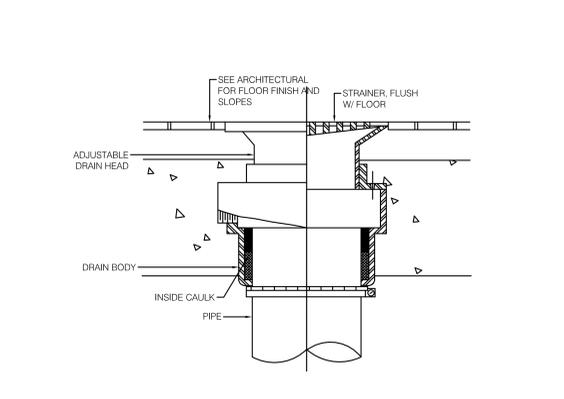
5 CLEANOUT DETAILS
 SCALE: NOT TO SCALE



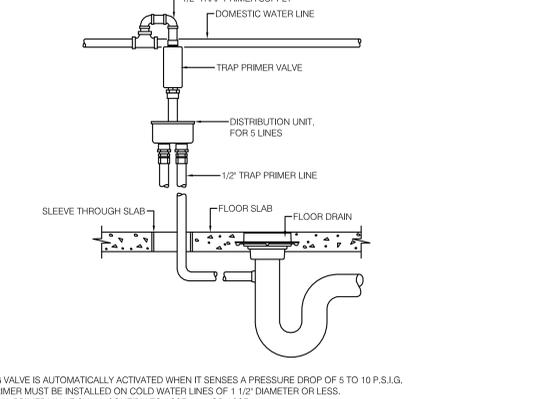
8 POINT OF USE MIXING VALVE DETAIL
 SCALE: NOT TO SCALE



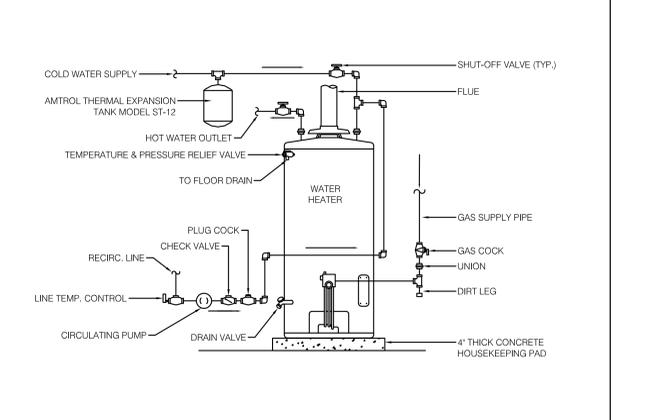
3 PLUMBING VENT THROUGH FLAT ROOF DETAIL
 SCALE: NOT TO SCALE



6 FLOOR DRAIN
 SCALE: NOT TO SCALE



9 PRIMER TRAP DETAIL
 SCALE: NOT TO SCALE

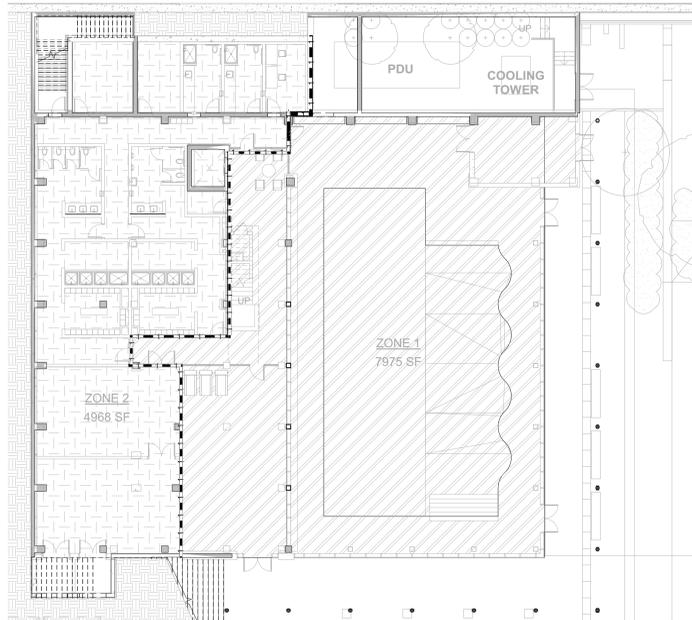


11 GAS WATER HEATER DETAIL (WITH RECIRCULATED LOOP)
 SCALE: NOT TO SCALE

CODE INFORMATION AND DIAGRAMS

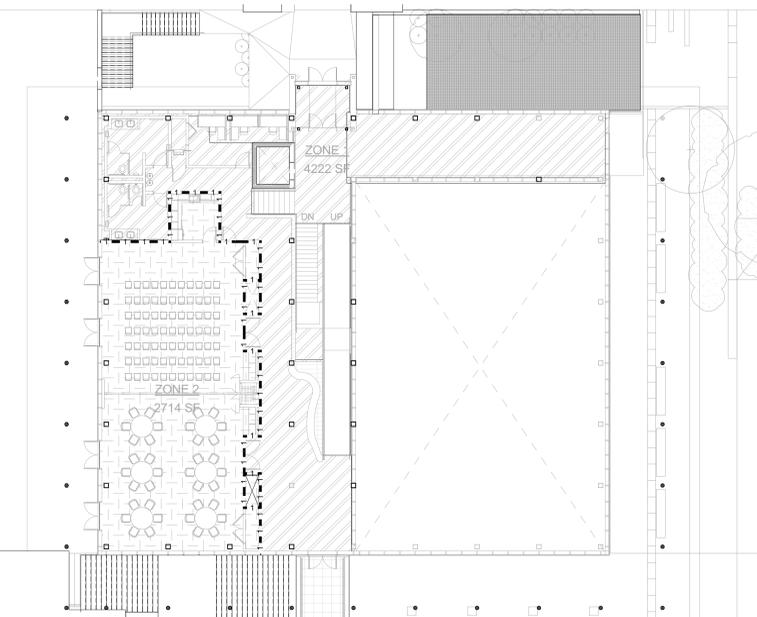
PROJECT INFORMATION

GROUP	TYPE OF CONSTRUCTION									
	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
	A	B	A	B	A	B	HT	A	B	
HEIGHT (feet)	UL	160	65	55	65	55	65	50	40	
STORIES(S)	AREA (A)									
A-3	S	UL	11	3	2	3	2	1	1	6,000
	A	UL	UL	15,500	9,500	14,000	9,500	15,000	11,500	6,000



BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
	A	B	A ^a	B	A ^a	B	HT	A ^a	B	
Primary structural frame ^a (see Section 202)	3 ^a	2 ^a	1	0	1	0	HT	1	0	
Bearing walls										
Exterior ^a	3	2	1	0	2	2	2	1	0	
Interior	3 ^a	2 ^a	1	0	1	0	1/HT	1	0	
Nonbearing walls and partitions	See Table 602									
Exterior										
Interior ^a	0	0	0	0	0	0	See Sect. on 602, 4.6	0	0	
Floor construction and associated secondary member (see Section 202)	2	2	1	0	1	0	HT	1	0	
Roof construction and associated secondary members (see Section 202)	1 ^{1/2} ^b	1 ^{b,c}	1 ^{b,c}	0 ^c	1 ^{b,c}	0	HT	1 ^{b,c}	0	

FIRST FLOOR - CODE SEPARATION DIAGRAM
1/16" = 1'-0" ref.



Use Type	Separation Distances	Rating Required
A3 with Accessory uses	30' or greater	0 hours

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP I ^a	OCCUPANCY GROUP F-1, M, S-1 ^a	OCCUPANCY GROUP A, B, E, F-2, I, R, S-2, U ^a
X < 5 ^a	All	3	2	1
5 ≤ X < 10	IA Others	3 2	2 1	1 1
10 ≤ X < 30	IA, IB IIB, VB Others	2 1 1	1 0 1	1 ^d 0 1 ^d
X ≥ 30	All	0	0	0

PROJECT DESCRIPTION
2 STORY COMMUNITY CENTER WITH POOL ON LOWER LEVEL AND MULTIPURPOSE ROOM ON UPPER LEVEL

PROJECT TYPE
NEW CONSTRUCTION

FACILITY USES
MULTIPURPOSE ROOM
POOL
GYM
OFFICE SPACE

CONSTRUCTION TYPE
III-B, NON-COMBUSTIBLE, FULLY SPRINKLERED

ALLOWABLE FLOOR AREA
9,500 SF PER SEPARATED AREA

HEIGHT
ALLOWABLE: 55 FEET OR 2 STORIES
ACTUAL HEIGHT TO HIGHEST OCCUPIED FLOOR = 15' - 2"
ACTUAL ROOF HEIGHT = 33' - 1"
ACTUAL NUMBER OF STORIES = 2

OCCUPANCY (SEE LS-201 FOR OCCUPANCY CALCULATIONS):
B - BUSINESS
A-3 - ASSEMBLY WITH ACCESSORY USES
S-2 - STORAGE
H - HAZARDOUS STORAGE

BUILDING OCCUPANCY

SECOND FLOOR (394) + FIRST FLOOR (276) = 670 TOTAL OCCUPANCY

BUILDING REQUIRED FIXTURE COUNT

TOTAL OCCUPANCY 664 (TYPE A3 + ACCESSORY USES)				REQUIRED				PROVIDED					
FIXTURE COUNT (A3)	WC	LAV	DF	TOTALS	WC	LAV	DF	SS	WC	LAV	DF	SS	
M	1/125	1/200	1/500	1	335	OCC	3	2	2	1	6	5	2
W	1/65	-	-	-	335	OCC	6	2	-	-	6	5	-

APPLICABLE CODES

- DCMR Title 12 - DC Construction Codes
- DCMR Title 11 - Zoning Regulations
- Green Building Act of 2006 as amended (D.C. Code §§ 6-1451.01 to 6-1451.11)
- 2010 ADA Standards for Accessible Design
- 2013 District of Columbia Building Code
- 2013 District of Columbia Green Construction Code
- 2013 District of Columbia Energy Conservation Code
- 2013 District of Columbia Fire Code
- 2013 District of Columbia Mechanical Code
- 2013 District of Columbia Plumbing Code
- 2012 ICC Swimming Pool and Spa Code
- 2011 National Electrical Code
- 2012 ICC Building Code
- 2012 ICC Mechanical Code
- 2012 ICC Plumbing Code
- 2012 ICC Fire Code
- 2012 ICC Energy Conservation Code
- 2012 ICC Green Construction Code

BUILDING GROSS SQUARE FOOTAGES

FIRST FLOOR (POOL)	12,265SF
ENTRY LEVEL / SECOND FLOOR	6,725SF
TOTAL	18,995SF

BUILDING PROGRAM SUMMARY

Program Summary			
Level	Room Number	PROGRAM	AREA (nsf)
FIRST FLOOR			
FIRST FLOOR	101	POOL	5582 SF
FIRST FLOOR	102	FITNESS ROOM	993 SF
FIRST FLOOR	104	WOMEN'S LOCKERS	826 SF
FIRST FLOOR	105	MEN'S LOCKERS	700 SF
FIRST FLOOR	106	FAMILY CHANGING	132 SF
FIRST FLOOR	107	FAMILY CHANGING	132 SF
FIRST FLOOR	108	LIFEGUARD OFFICE	139 SF
FIRST FLOOR	201	WATER SERVICE	221 SF
FIRST FLOOR	202	ELECTRICAL	158 SF
FIRST FLOOR	203	DATA/TELE	45 SF
FIRST FLOOR	204	MECHANICAL	654 SF
FIRST FLOOR	205	POOL PUMP	685 SF
FIRST FLOOR	206	CHEM. STORAGE	61 SF
FIRST FLOOR	207	CHEM. STORAGE	61 SF
FIRST FLOOR	211	ELEV	59 SF
FIRST FLOOR	301	POOL STORAGE	340 SF
FIRST FLOOR	401	CIRCULATION 1	468 SF
FIRST FLOOR	402	CIRCULATION 2	723 SF
FIRST FLOOR	502	JANITOR	26 SF
			12006 SF
ENTRY LEVEL			
ENTRY LEVEL	157	GALLERY	806 SF
ENTRY LEVEL	450	LOBBY	279 SF
			1086 SF
SECOND FLOOR			
SECOND FLOOR	152	OFFICE	245 SF
SECOND FLOOR	153	MEN	161 SF
SECOND FLOOR	154	WOMEN	161 SF
SECOND FLOOR	155	WARMING PANTRY	113 SF
SECOND FLOOR	156	MULTIPURPOSE	2399 SF
SECOND FLOOR	209	CLOSET	28 SF
SECOND FLOOR	210	CLOSET	26 SF
SECOND FLOOR	451	CIRCULATION 3	1677 SF
			4809 SF
Grand total			17902 SF

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QEA PROJECT #: 31610100

PROJECT INFORMATION

SUPPLEMENTAL INFORMATION - FOR REFERENCE ONLY

FOUNDATION TO GRADE
03/03/17

REVISIONS		
NO.	DESCRIPTION	DATE

A0002

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**ARCHITECTURAL
 SITE PLAN**

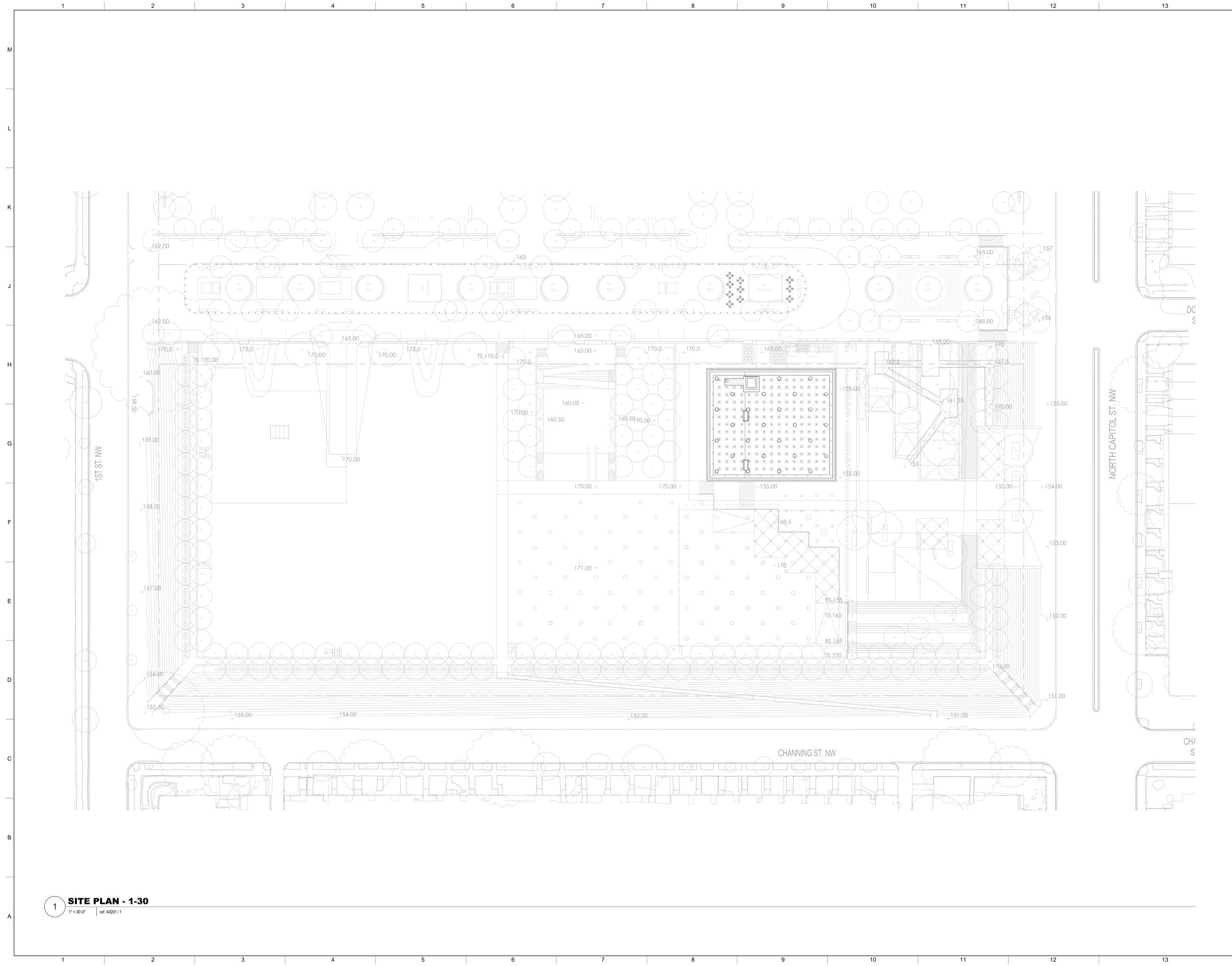
SUPPLEMENTAL INFORMATION -
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REVISIONS

NO.	DESCRIPTION	DATE

A0010



1 SITE PLAN - 1-30
 1" = 30'-0" ref: A0201/1