LANDSCAPE DRAWINGS



PUBLIC SQUARE

The Fublic Square attracts pedesirians from the CUA campus and the Monroe Street retail corridor. A central fountain animates the square and acts in conjunction with the Clock Tower as a gateway into the development. The square is burdered with canopy trees that provide shade and maintain open views to campus. Seating is accommodated by benebes, inversible furniture, and low planter walls. The plantings diffine the square and provide seasonal color and texture



CENTRAL FOUNTAIN animons the square and pairs with the Class Tower as a gareing thin the





Landscape - Public Square

ARTS PLAZA / ARTS WALK

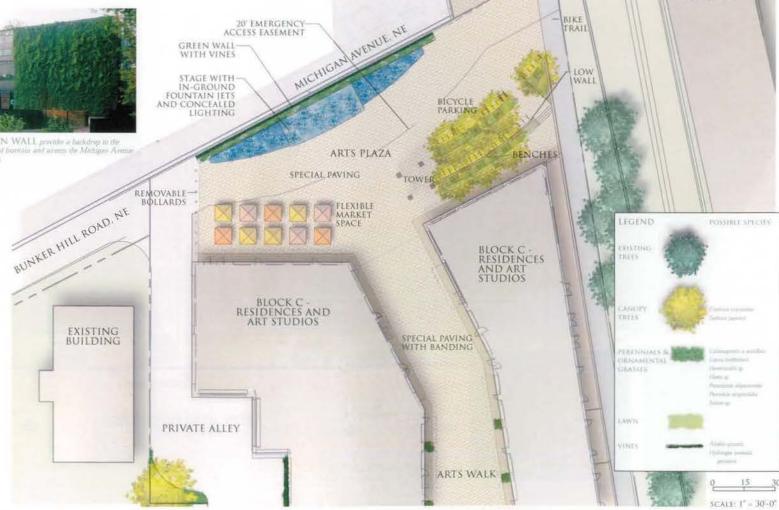
The Arts Plaza welcomes pedestrians from the Arts Walk, the CUA campos, and the Metro. The plaza is focused on a stoge with in-ground fountain jets and a green wall backdrap that provides a buffer between Michigan Avenue and the public space. The area accummodates markets, performances and community events.



STAGE WITH IN-GROUND FOUNTAIN JETS provides theorbit space for jets can be harned all).



GREEN WALL provides a backdrup in the



BROOKLAND / CUA METRO ENTRANCE

FLEXIBLE MARKET SPACE accommodates



NOTE PHOTOGRAPHS ARE FOR ILLUSTRATIVE PURPOSES ONLY

Landscape- Arts Plaza

November 30, 2009

BROOKLAND / CUA METRO

PLATFORM

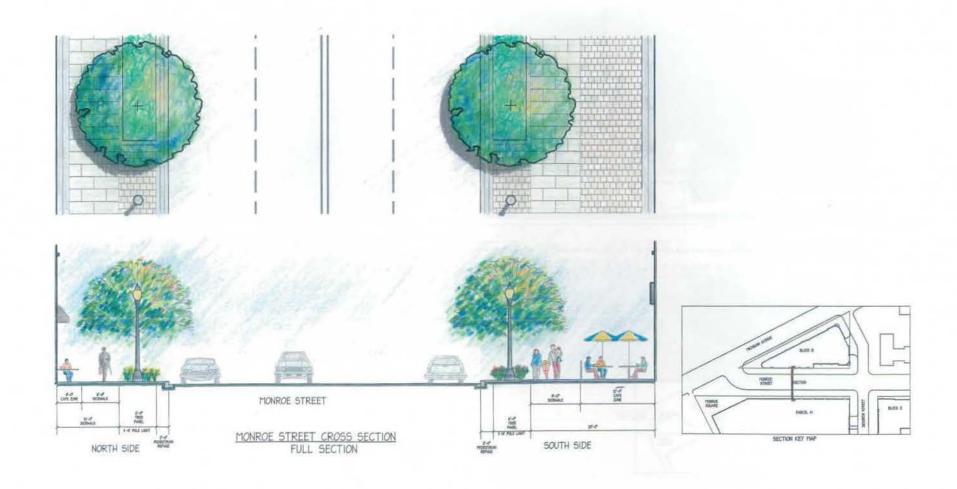
RESIDENTIAL COURTYARDS

Private gardens in buildings A1 and E extend interior perspectives, express seasonal change, and provide a dynamic composition when viewed from above. They also provide recreational amenities and private space for building residents.

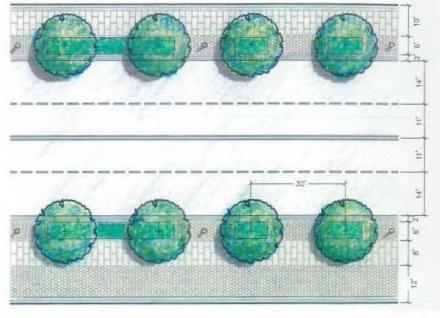


Group Forti Gallas and Partners, Isc. 1 1000 Spring Street, afti flow, Silver Spring, Marrison 25500, no 188, 4500

Landscape - Residential Courtyards



these has called between his 1 configure from 4th line, him spring this land, ours an other



NORTH SIDE PLAZA

FULL WIDTH

MONROE STREET PLAN VIEWS SCALE: I* = 201

Landscape - Monroe Street Cross Sections

November 39, 2009



NORTH SIDE PRESTRUM

MONROE STREET

MONROE STREET CROSS SECTION

NORTH SIDE PLAZA

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Landscape- Monroe Street Cross Section North Side Plaza

November 30, 2009

CIVIL DRAWINGS

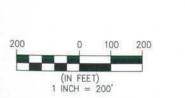
- . CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT, EXTENT AND DESIGN OF SHEETING, SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, LICENSED IN DC, HIRED BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND
- * PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES VERIFY INVERT ELEVATION OF EXISTING UTILITIES. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH INFORMATION SHOWN PRIOR TO ORDERING ANY STRUCTURES.
 OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OFF SITE.

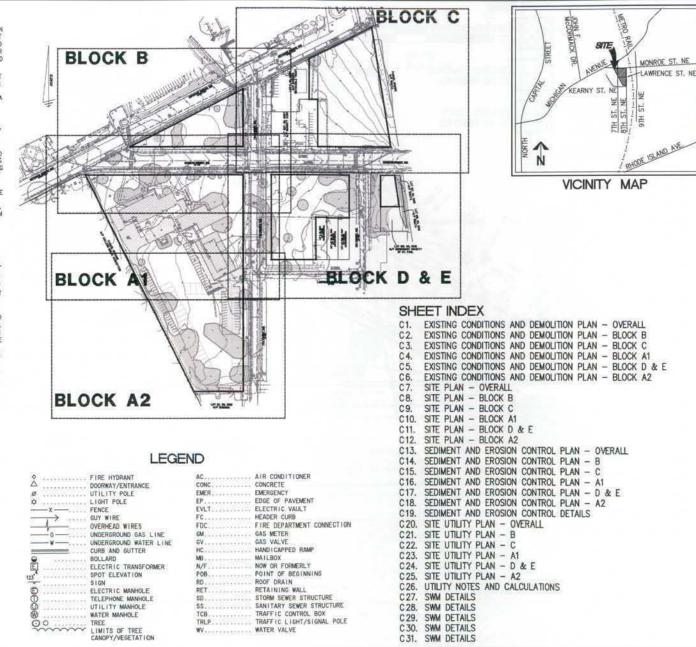
DEMOLITION NOTES:

- I. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED. IN ADDITION, THESE ACTIVITIES SHALL BE COORDINATED WITH DESIGN TEAM
- IN AUVANCE.

 2. CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK, REPORT ANY DISCREPANCY TO THE PROJECT MANAGER, FOR MARKING LOCATIONS OF EXISTING UTILITIES, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY EXCAVATION
- 3. REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE
- REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.

 4. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRICAL, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE EXISTING RECORDS. THE LOCATION OF ALL LITILITIES SHOWN ARE APPROXIMATE. IT IS RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PRIVATE UTILITY LOCATOR SERVICE AND SHALL DOCUMENT UTILITY LOCATIONS.
- 5. THE CONTRACTOR MUST <u>HAND-DIG</u> TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURE. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE, THE PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- 6. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR DEMOLITION AS PER D.C. EROSION AND SEDIMENT CONTROL HANDBOOK. IF ANY ONSITE INSPECTION. REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED.
- 7. SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND BE PROTECTED.
- 8. NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION, COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.
- 9. EXISTING UTILITES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AND ABANDONED PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS, CORRDINATE REQUIREMENTS WITH COMPANIES.
- 10, REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS INDICATED ON THESE DRAWINGS





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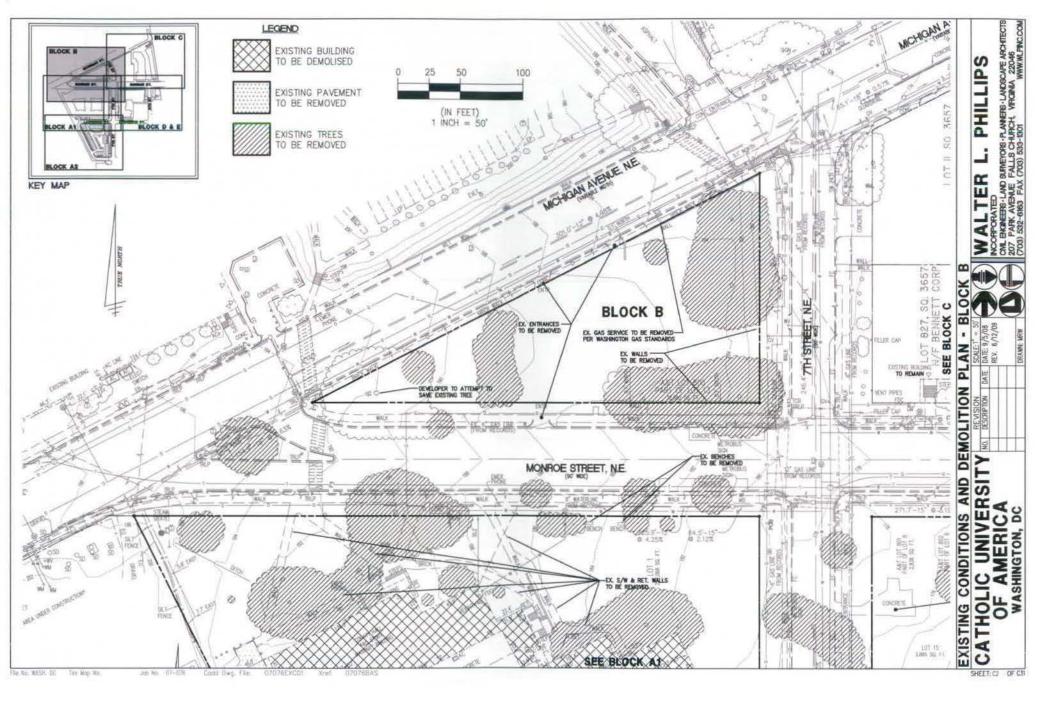
CONDITIONS

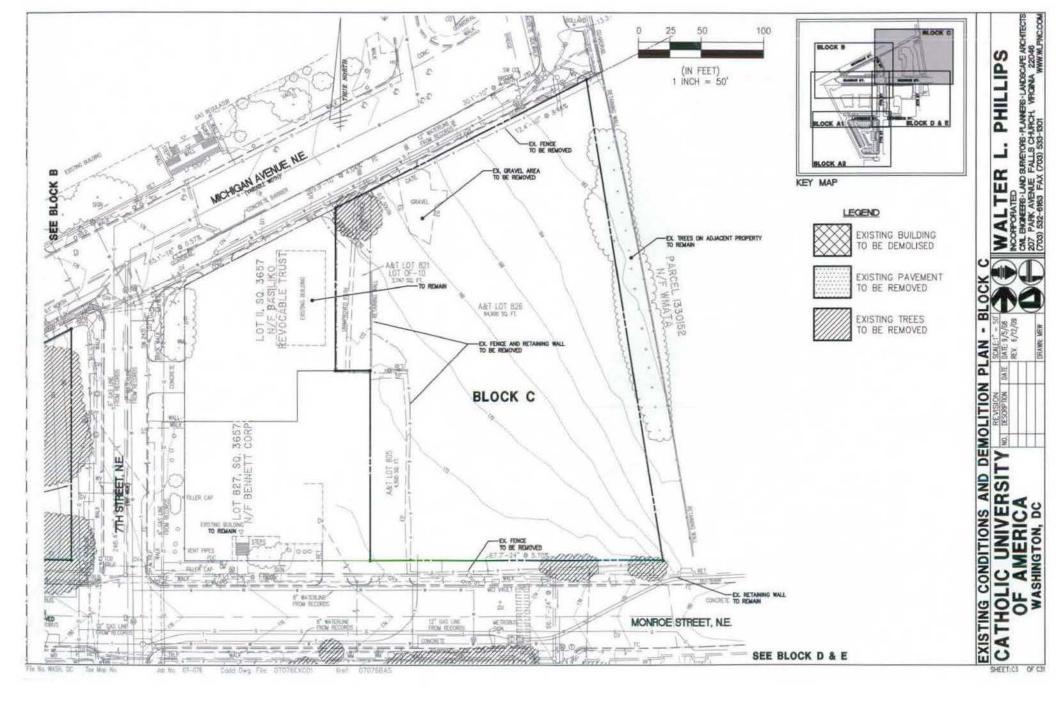
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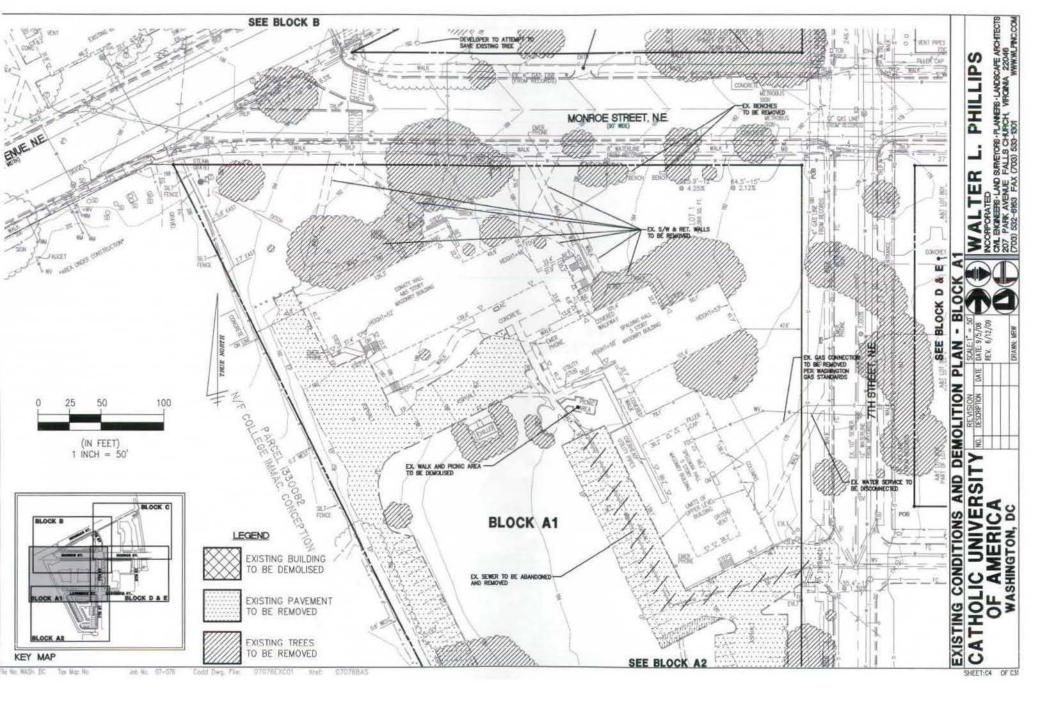
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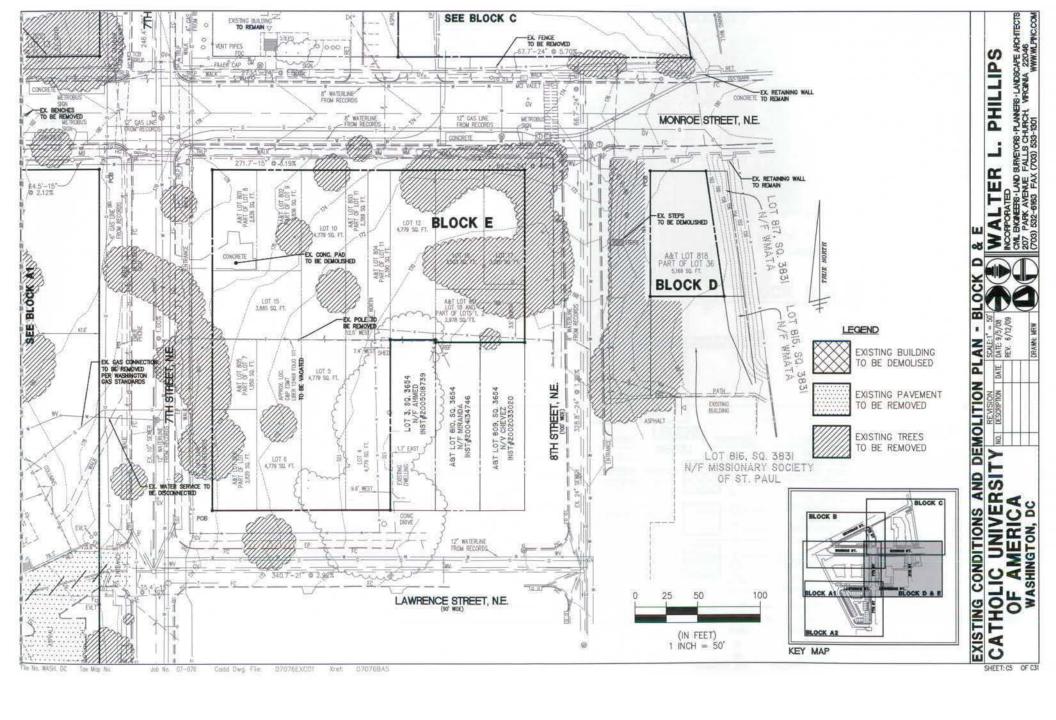
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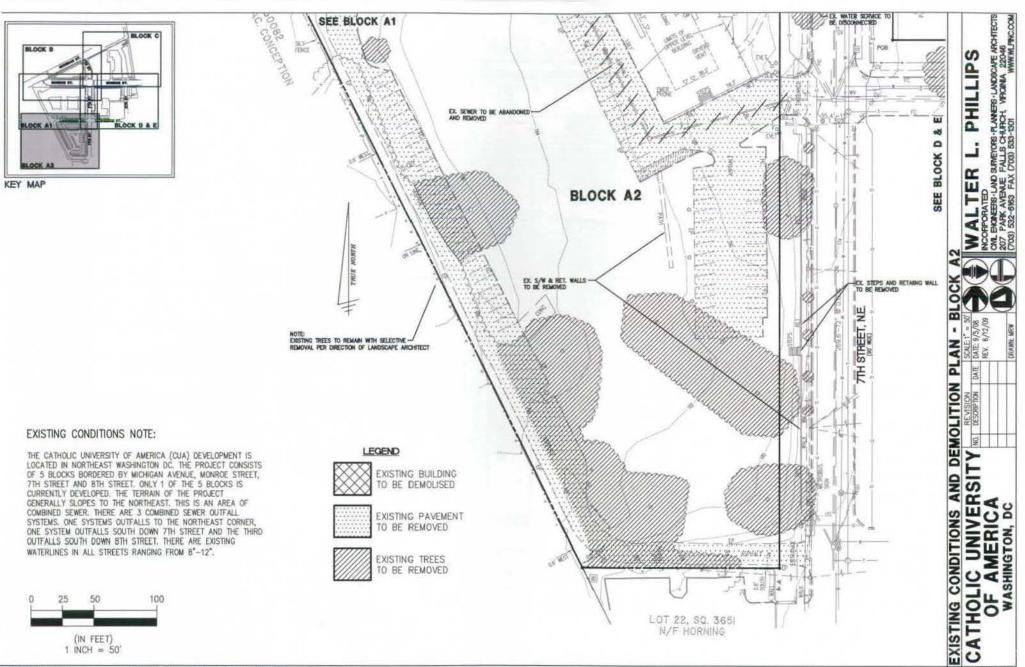
SURNEYORS -FALLS CH (703) 533-











le No. WASH DG Tox Map No. Job No. U7-GNV Codd Dwg, File: 07076EXC01 Xvef 0707

GENERAL NOTES:

- 1. EXISTING CONDITINS WERE PRODUCED FROM SURVEY'S PREPARED BY WALTER L. PHILLIPS, INC.
- EARSHIND CONTRIBUTE WIGHT PRODUCED THOSE SURVEYS FREPRING BY MALLER E. PRILLIPS, INC.
 VERIFY LOCATION OF ENSINED UTLIFIES BEFORE PROCEEDING WITH WORK NOTEY OWNER'S REPRESENTATIVE, DC/DPW, 767-7632 OR 767-6522 AND "MISS UTLIFT" (1800-257-7777) 48 HOURS SEFONE PROCEEDING WITH ANY DISCAVATIONS. HAND DIG TEST PITS AT ALL UTLIFTY CROSSINGS AND DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS.
 MILL BY ADVANCE OF CONSTRUCTION. MOTHEY ENGINEER OF ANY CONTRIBUTE WITH PLAN ELEVATIONS.
- 3. WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE DC/DPW STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
- 4. DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE UNLESS OTHERWISE NOTED.
- 5. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
- 6. OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INFORMATION CONCERNING FOUND UTILITY.
- TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES, INVESTIGATION(S) TO DENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- 8. F A 1' MINMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- 9. TRANSITION CURB, GUTTER, PAYING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY
- 10. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- 11. ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DPW STANDARDS.
- 12. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAYING ARE TO BE REMOVED, THE EXISTING PAYEMENT SHALL BE
- 13. REMOVE FRAMES AND COVERS OF SEWER MANHOLE/INLETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
- 14. ALL SEDMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPCOTICATIONS FOR SOL EROSION AND SEDMENT CONTROL. FOR THE DISTRICT OF COLUMBA, F AN ON-STEE INSPECTION REVEALS (TRIFRER DISTRICT) CONTROL MESTIGES ARE INCESSARY, THE SAME STANDARD CONTROL MESTIGES ARE INCESSARY, THE SAME STANDARD.
- NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF TRANSMISSION MAIN, FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205.
- 16. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND THE PROPOSED FACILITIES.
- 17. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

NOTES:

CONTACT 'MISS UTILITY' AT 1-800-257-7777, 48 HOURS PRIOR TO CONSTRUCTION.

CONTACT DEPARTMENT OF PUBLIC WORKS - PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202)645-6030 OR (202) 645-6031.

ALL PROPOSED WORKS TO BE PERFORMED UNDER INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS -WATER AND SEWER AUTHORITY

ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER UTILITY AUTHORITY.

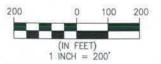
USE MANHOLES ENTRY SEALS WHERE REQUIRED.

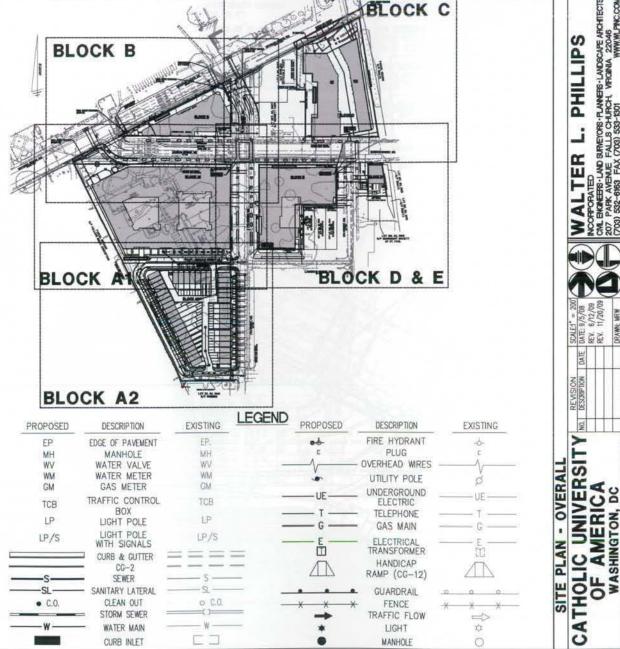
NOTE: CONTRACTOR IS TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF ENSTRING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING AND UNDERPRINING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

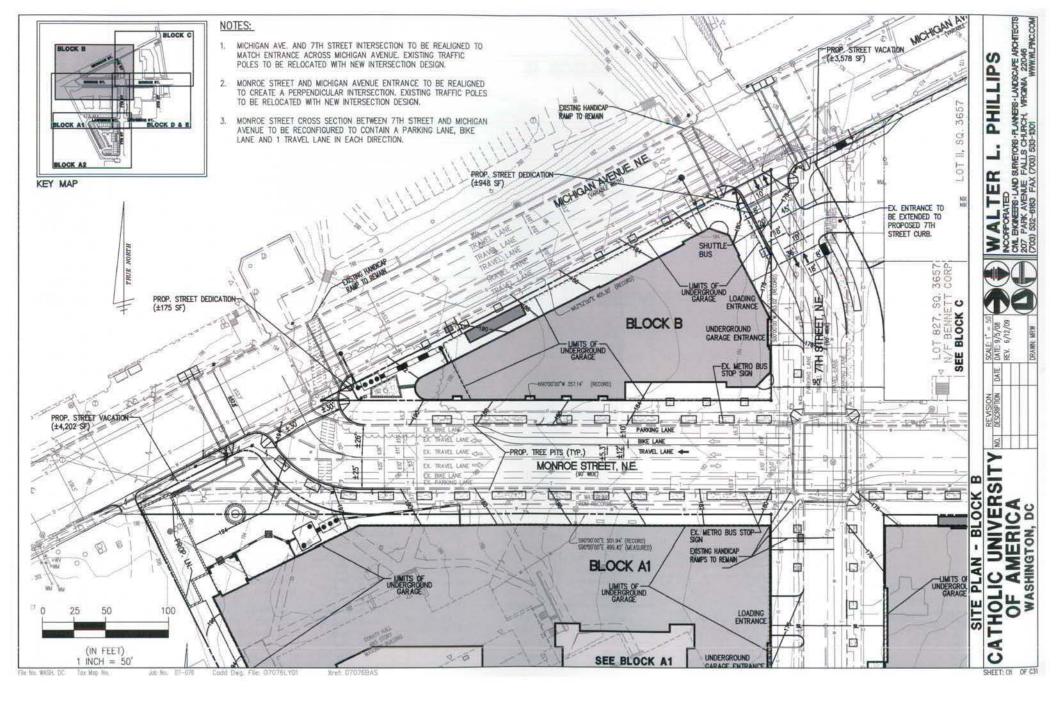
ALL EXISTING UTILITY POLES AND OVERHEAD WIRES TO REMAIN UNLESS OTHERWISE STATED.

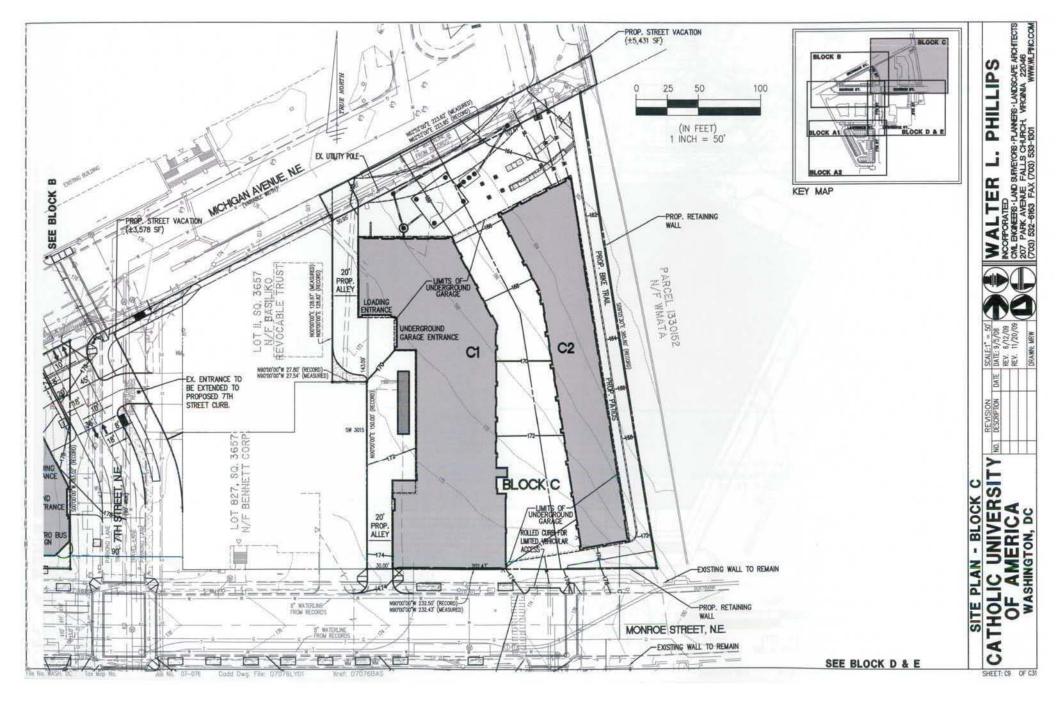
UTILITY NOTE:

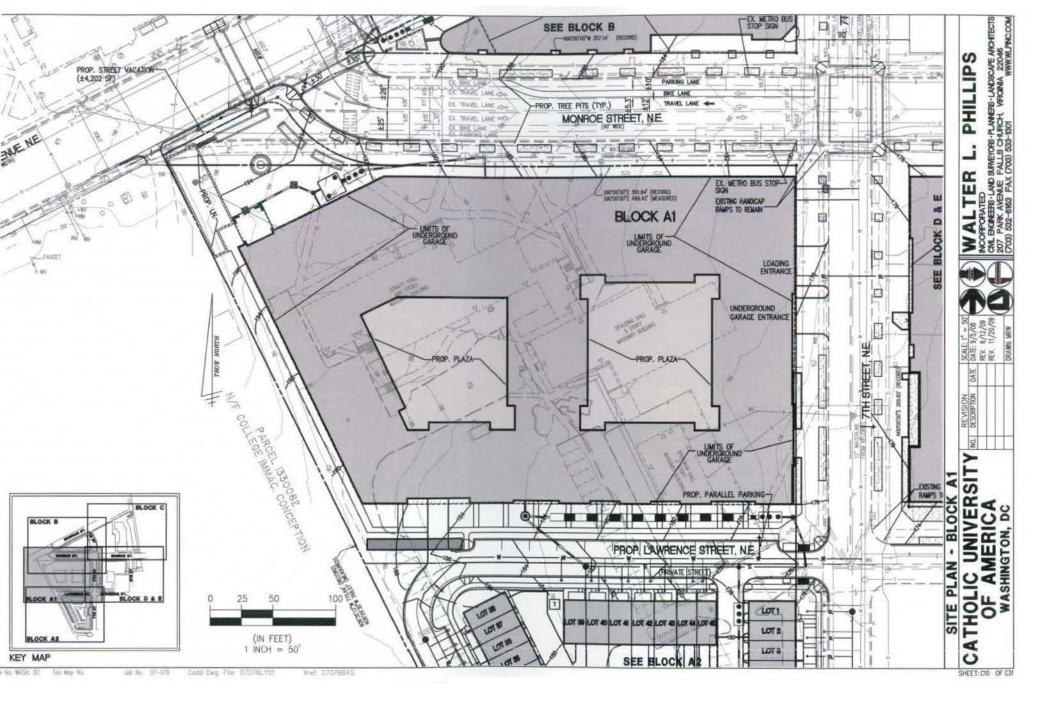
UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANTARY SENER, ELECTRIC, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE CITY UTILITY SECONDS, OWNER RECORDS AND FILLD VERIFIED WHERE POSSIBLE IT IS THE RESPONSBLET ITS CHECK POSSIBLE ITS OWNER RECORDS AND FILLD DETERMINE THE EVALUATION OF THE RESPONSBLET OF ALL UTILITIES PRIOR TO COMMENCING WORK OF ORDERING THE AVAILABLE AND STRUCKES, REPORT AND DECEMBANCY TO THE PROJECT MANAGES, FOR MARKING LOCATIONS OF EXISTING UTILITIES. CONTACT WAS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCHANGEN ON TOTAL TECHNICAL WORKS.

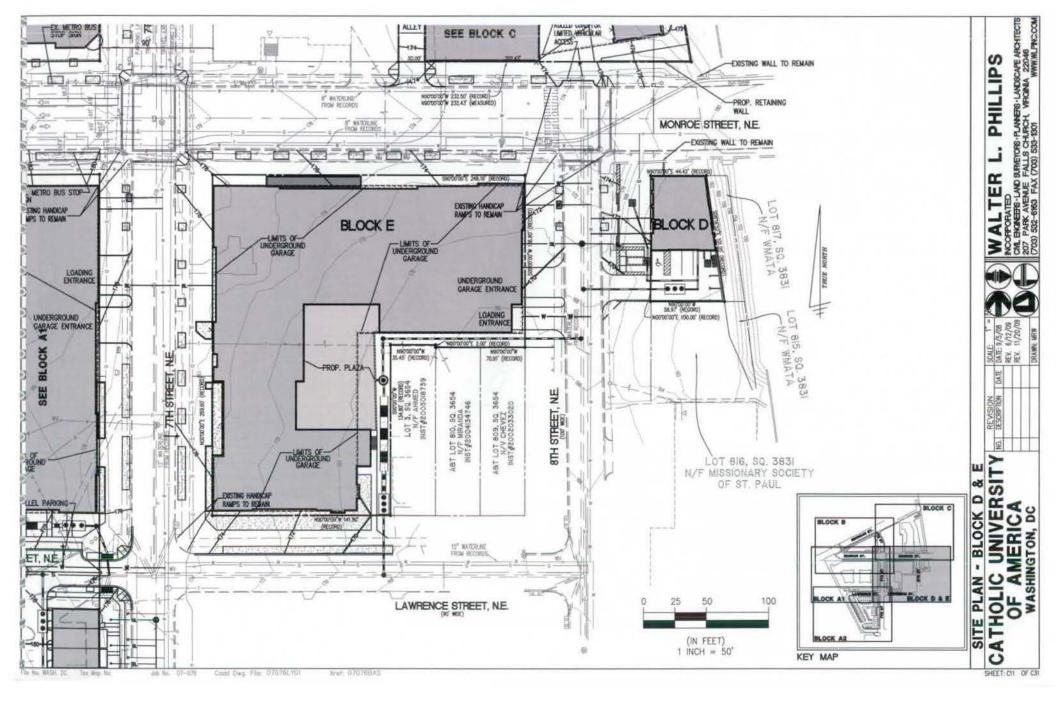


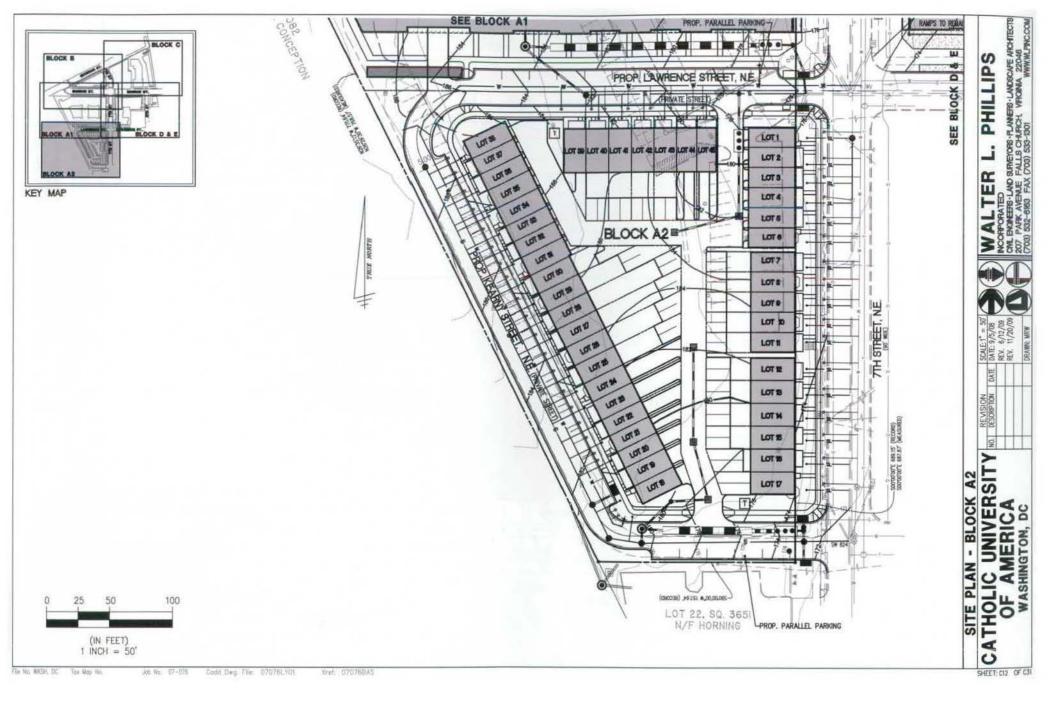












CONSTRUCTION AND STABILIZATION SEQUENCE

- I NISTALL TETRMENT AND EROSEON CONTROL MEASURES INCLIONE STABLEZED CONSTRUCTION DATABASE, WAD RADCE, NIET PROTECTION, SILL FUNCE, AS NORDATED ON THE SHEET, SEE SHEET RESIDENT AND CROSSON CONTROL OFFIAILS.
- SEDMENT CONTROL NEASURES SMALL BE INSPECTED AND APPROVED BY THE INSPECTION PRIOR TO COMMUNICING ANY OTHER LAND DISTURBING ACTIVITIES.
- I REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN. A INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED
- 1 AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORATY EXEMPERATION AND EXCISION CONTROL MEASURES SHALL BE REMOVED.

CONTRACTOR TO PROVIDE CHAIN LINK FENCE AT PERMETER OF THE EXCAVATION AREA.

INSTALL SET FENCE AT PERMETER TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BESTALL INLESS CITATIONS APPROVED BY THE INSPECTOR

DUST CONTROL NOTES:

- 1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND WAINTAIN THE PROJECT STIE AS TO WINDINGS THE CHEATEN AND DISPERSON OF DUST, DUST CONTROL SHALL HE USED THROUGHOUT THE WORK AT THE
- 2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, PHEE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL
- 5. THE CONTRACTOR SHALL SUPPLY WATER EPITAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK
- A THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT THAIL BE APPLIED A MADRIM OF CHICE POR OAY DURING ONLY WEATHER ON MORE OFTEN AS REQUIRED.
- 5. FOR WATER APPLICATION TO UNDESTURBED SOR, SURFACES, THE CONTRACTOR SHALL
- A APPLY MATER WITH COMPARED CONCESTING OF TANK, SPRAY BAR, PLAFF WITH DESCRIPT
- CAUSE: B. ARRANGE SPRAY BAR HEIGHT, NOZELE SPACING AND SPRAY PATTERN TO PROYEC COMPLETE COMPAGE OF SPOUND NETH NATER.
- C DESPEKSE MATER THROUGH MOTZLES ON SPRAY BAY AT 20 PSI (137.8 K PA) MINIMAN METP AMERS DAMP WITHOUT CREATING NUMBERICE CONDITIONS SUCH AS PONDING
- IL FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION THE CONTRACTOR SHALL
- A. APPLY WATER WITH EQUIPMENT CONDISTING OF A TANK, PLIND WITH DESCHARGE GALICE, HOSES AND
- IL LOCATE TAINS AND SPRAYING COUPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAYATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING MUSANCE CONDITIONS SUCH AS PONCING.
- C. APPLY WITER SPRAY DLA MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARRES.

CONSTRUCTION DATES:

* EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL DISTURBED AREA

AREA = 532,599 SF. = APPROX.12 AC.

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPHINING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

SEDIMENT CONTROL APPROVAL:

PLAN NUMBER:

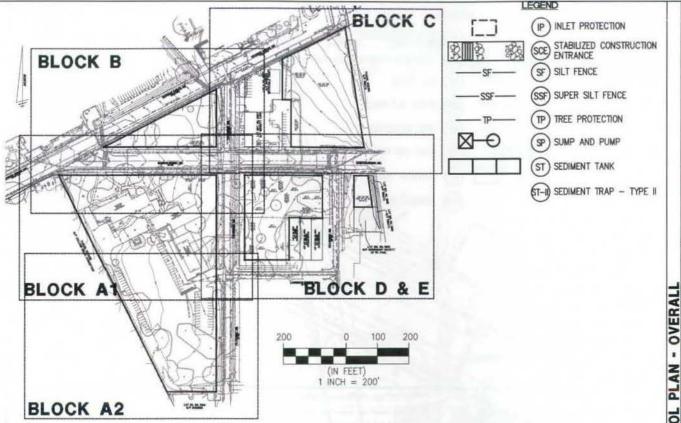
THIS APPROVAL IS FOR GRADING AND SEDIMENT CONTROL ONLY. PERMITEE / CONTRACTOR IS REQUIRED TO CONSTRUCT DESIGN FEATURE SHOWN HEREON, HE SHALL NOTIFY THIS OFFICE AT NUMBER LISTED BELOW AT LEAST 24 HOURS BEFORE START OF GRADING ACTIVITY, AND WITHIN TWO WEEKS AFTER COMPLETION OF PROJECT FOR FINAL INSPECTION.

DATE

EROSION AND SEDIMENT CONTROL BRANCH

FOR FURTHER INFORMATION, PLEASE CALL: COVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH ADMINISTRATION WATERSHED PROTECTION DIVISION

51 N. STREET, N.E., 5TH FLOOR WASHINGTON, D.C. 20002 FAX NO. (202) 535-1364 TEL NO. (202) 535-2240



EROSION AND SDIMENT CONTROL MEASURES AND SEQUENCE:

- ALL EROSION AND SEDMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
- PROMOF TEMPORARY STOME CONSTRUCTION FINTRANCS AND WASH RACK WHERE SHOWN PROMOF WATER SOURCE AND HOSE
- NO DISTURBED AREA WILL BE DENUDED FOR MORE THAN 7 CALENDAR DAYS, INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ACCOUNT EROSION AND SEDMENT CONTROL.
- ALL CONSTRUCTION TO BE INSPECTED DAILY BY THE CONTRACTOR, AND ANY DAMAGE SILTATION OR EROSION CONTROL DEVICES OR MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY
- 5. STABILIZED CONSTRUCTION ENTRANCES TO BE PERODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
- 6. CONTROLS WILL BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED

SILTATION EROSION CONTROL NOTES:

- ALL SCHMENT AND EROSCH CONTROL METHODS SHALL BE INSTALLED BEFORE THE STAFF OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL PROSON AND SEDMENT CONTROL FOR THE DISTRICT OF COLUMBIA, IF AN OFF-SITE INSPECTION REVEALS FURTHER GROSON CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED.
- 2. ALL DEBRIS IS TO BE REMOVED.
- 3. ALLEY AND/OR STREET SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION
- ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY BY THE CONTRACTOR, ANY DAMAGED DEVICE OF MEASURE WILL BE REPLACED BY THE CLOSE OF DAY OR AS DIRECTED BY THE ARCHITECT.
- ALL VEHICLES LEAVING THE STIE SHALL EXIT THROUGH THE CONSTRUCTION DISTRINCE ONLY AND SHALL BE WASHED DOWN TO REMOVE MUD FROM TRES BEFORE ENTERING THE STREET, CONSTRUCTION ENTRANCE TO BE MAINTAINED IN GOOD WORKING CONDITIONS.
- 6. ALL CATCH BASING AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
- 7. If any catch easn or drain becomes clodged as a result of excavation or construction, the contractor shall be RESPONSBLE FOR ITS INNEDIATE CLEANING.
- ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDED OR SCORD. AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF DISTURBANCE.
- 9. WIEW SEDMENT TRAP/SEDMENT TANK HAS READED 57% CAPACITY, CLEAN OUT OF SAME IS REQUIRED ANY STOCKPLING, RECARDLESS OF LOCATION ON SITE SHALL SE STABLIZED WITHIN 14 DAYS AND COMPED WITH PLASTIC OF CANVAS, AFER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
- 10. AFTER RAZE OR DEMOS THERE IS NEED FOR GROUND COVER TO PREVENT DROSON AND SEDIMENT RUNOYF FROM OCCURRING, SUCH AS SEED, SOD, PAVING, BRICKSRACK OR MULCH, ETC.
- 11. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE DC EROSION AND SEDMENT CONTROL INSPECTOR APPROVAL ALL TEMPORARY SILIATION, SEDIMENTATION AND EROSON CONTROL MEASURES AND DEVICES SHALL BE REMOVED AND ALL DENDOED AREAS SHALL BE PERMANENTLY STABILIZED.

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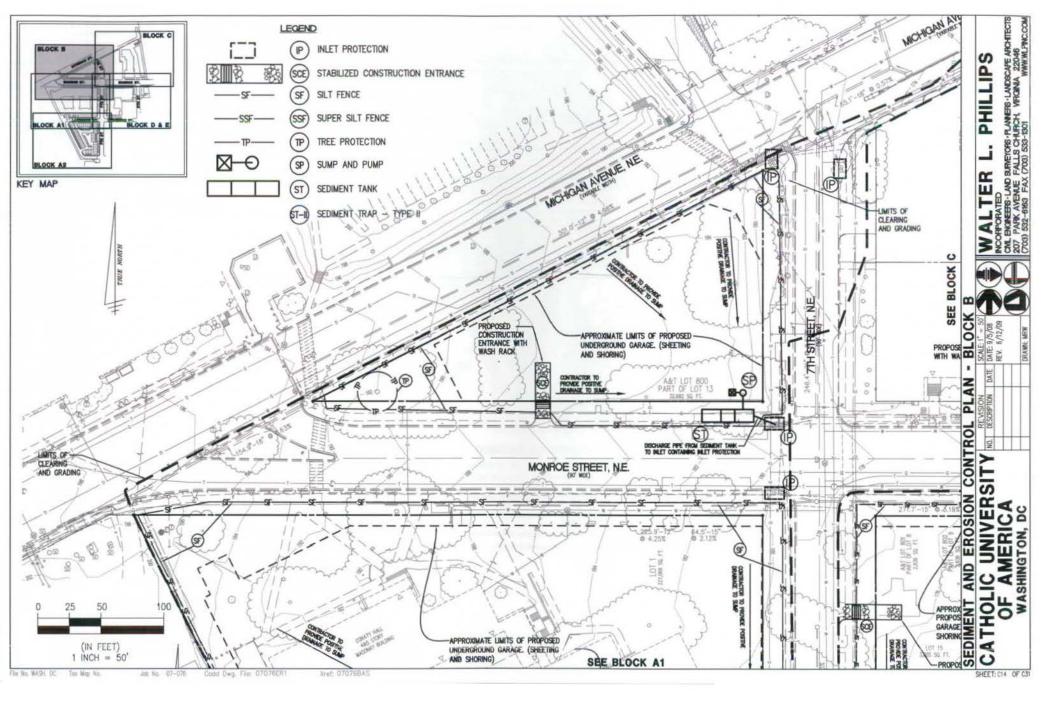
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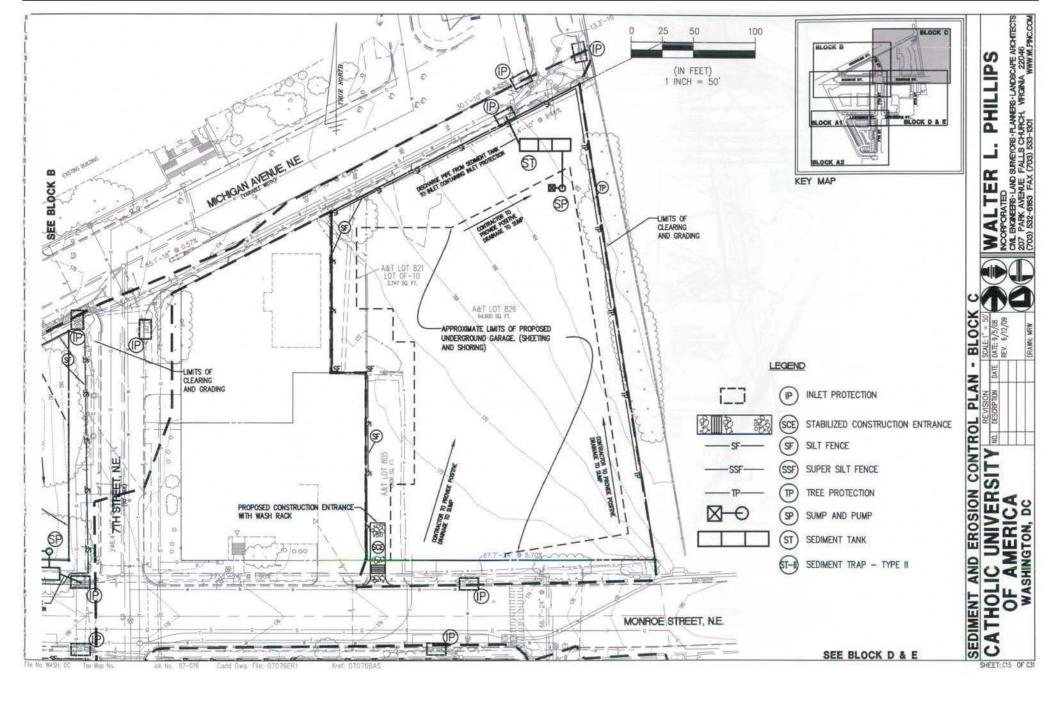
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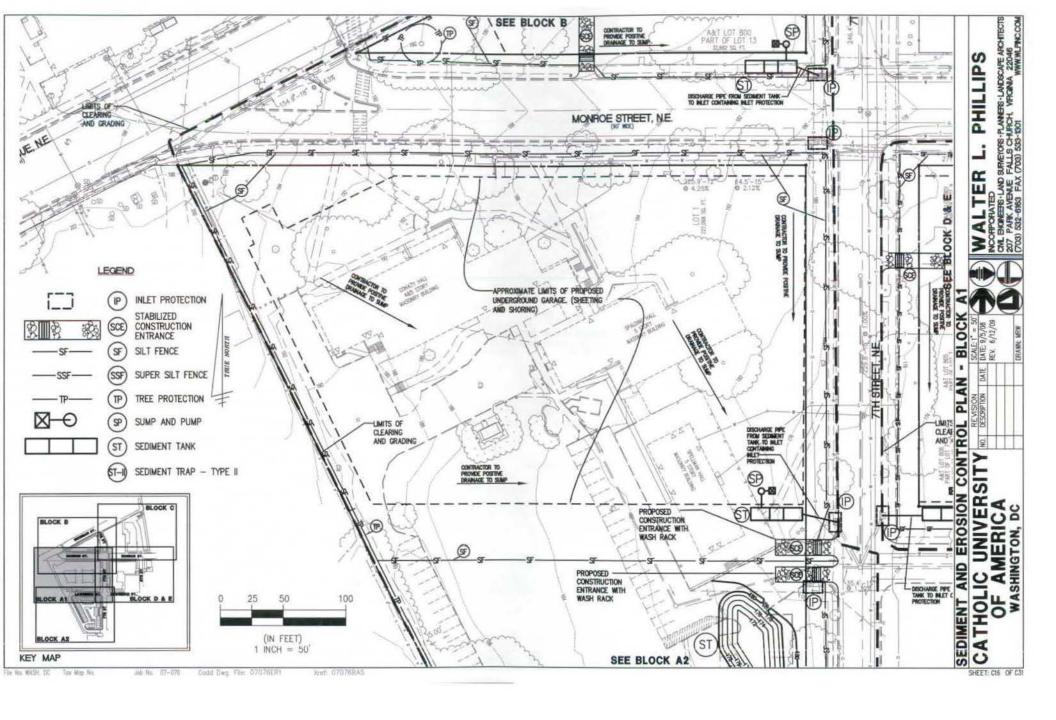
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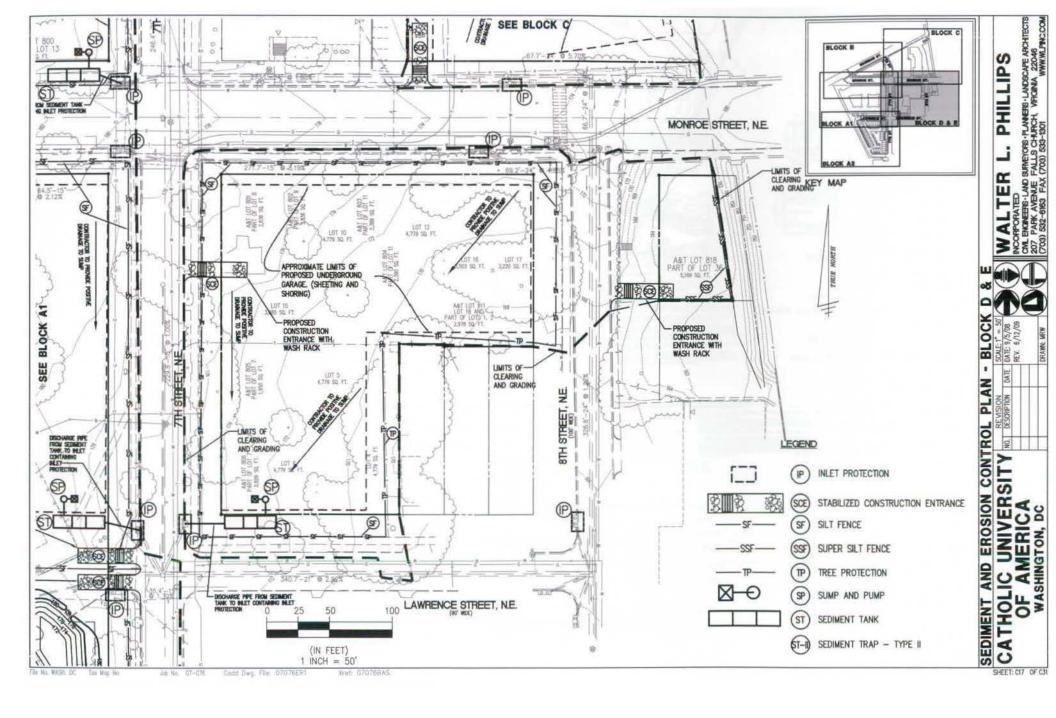
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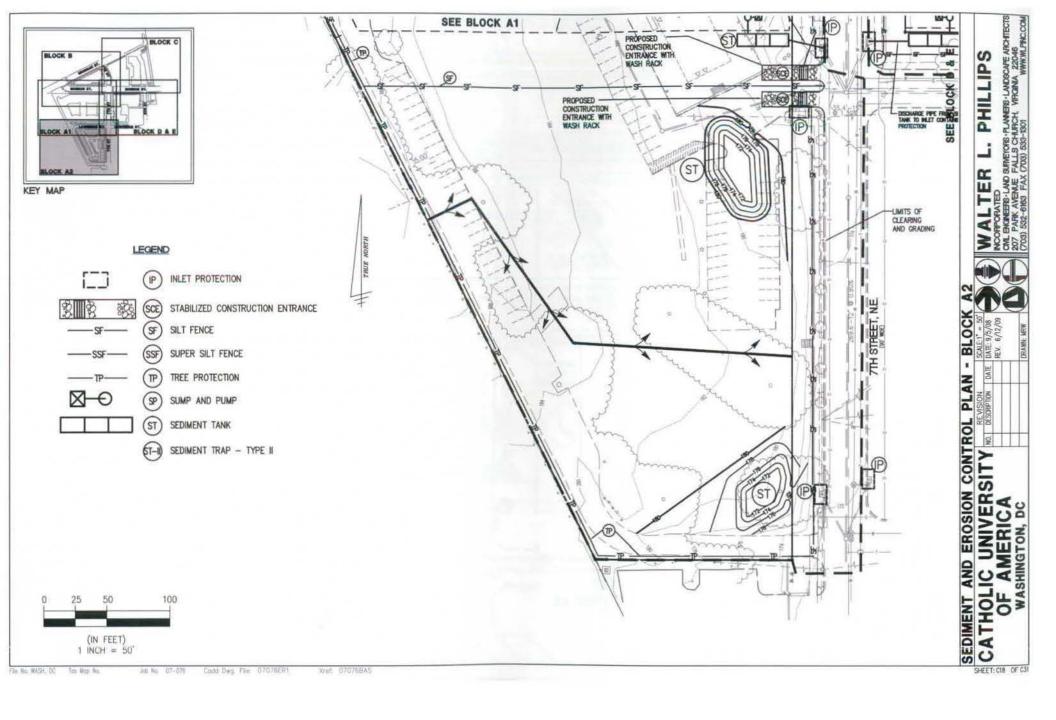
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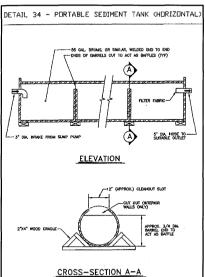


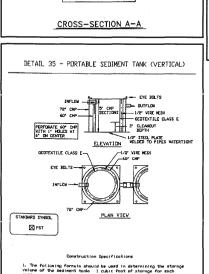




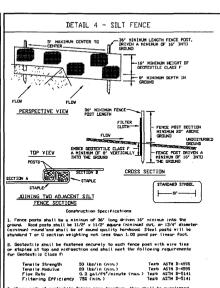


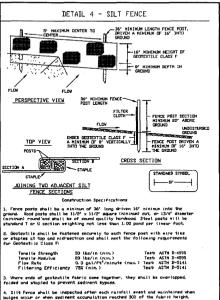


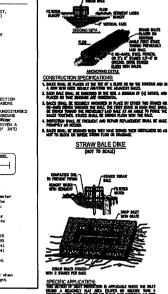


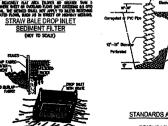


container designs can be used if the storage valume is adequate and approval is obtained from the local approving agency.





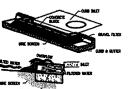




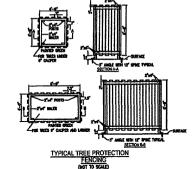


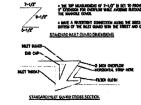






- THE CONCRETE BLOOKS BHALL BE PLACED ON THEIR SIDES ABUTENG THE CLUB AT CITYER SIDE OF THE MAY DEFINED.





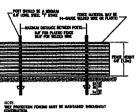
GRADE INLET GUARD

LITT SECRETARY AND STORM.

A DATE of a company of the company of t SHIMP DIT

STANDARDS AND SPECIFICATIONS FOR BRICKBAT GROUND COVER

BRICKBAT DETAIL



TREE PROTECTION FENCE INSTALLATION DETAIL



3. Tanks may be connected in series.

REVISION DESCRIPTION

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ALTER L. PHILLIPS
PORATED
NAMEDS: LAND SUMERORS - LANDES ARE ARCHITECTS
ARK AVENUE FALLS CHURCH, WIGHA 22046
532-6163 FAX (703) 533-1501
WWW.MLPINC.COM

GENERAL NOTES:

- 1. EXISTING CONDITINS WERE PRODUCED FROM SURVEY'S PREPARED BY WALTER L. PHILLIPS, INC.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK, NOTIFY GWINEF'S REPRESENTATIVE, DC/DPW, 767-7632 OR 767-8622 AND "MSS UTUITY" (1800-257-7777) 48 HOURS BEFORE PROCEEDING WITH MAY EXCAVATIONS. HAND DIG 1857 FITS AT ALL UTUITY CROSSINGS AND GETEBRING EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION, NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
- WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPUICABLE DC/DOW STANDARDS AND SPCINICATIONS. ON-STE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PURISHON COOKE.
- DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAYEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE. UNLESS OTHERWISE NOTED.
- 5. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
- OWSSONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR: THE CONTRACTOR SHALL NOTIFY THE CHINER MALEXATELY OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
- TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION(S) TO IDENTIFY HORIZONTAL LOCATION, BLEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- F A 1" MINIMUM VERTICAL CLEARANCE CAN NOT BE WAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
- 10. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER OPW STANDARDS.
- WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAYING ARE TO BE REMOVED, THE EXISTING PAYEMENT SHALL BE SAW-CUT.
- 13. REMOVE FRAMES AND COVERS OF SEMER MANHOLE/INLETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
- 14. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF JAVY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EPIGSON AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBA. F AN OH-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE MECESSARY, THE SHALE BE PROVIDED.
- NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE MOINTY OF TRANSMISSION MAIN, FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205.
- 16. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING OAS FACILITIES AND THE PROPOSED FACILITIES.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

NOTES:

CONTACT MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO CONSTRUCTION

CONTACT DEPARTMENT OF PUBLIC WORKS - PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202)645-6030 OR (202) 645-6031.

ALL PROPOSED WORKS TO BE PERFORMED LINDER INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS — WATER AND SEWER AUTHORITY.

ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS — WATER AND SEWER UTILITY AUTHORITY.

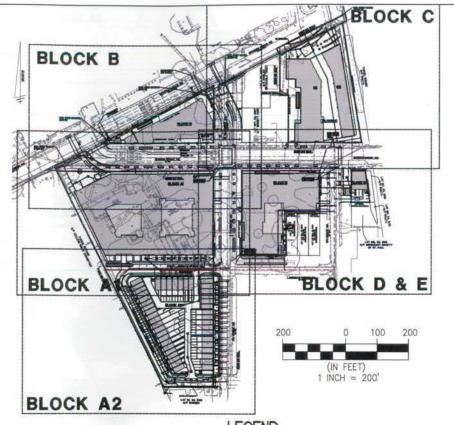
USE MANHOLES ENTRY SEALS WHERE REQUIRED.

NOTE: CONTRACTOR IS TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF DISTING UTILITIES AND ADJACENT STRUCTURES, SHORING, BRACING AND UNDERPRINNING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

UTILITY NOTE:

UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRIC, TELEPHIDIE AND GAS WIBE TAKEN FROM AVAILABLE DITY UTILITY RECORDS, OWNER RECORDS AND FELD VERRIED MERIES POSSIBLE. IT IS THE RESPONSHELL IT IS THE RESPONSHELL TO THE CONTRACTOR TO FELD VERRY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENIONS WORK OR ORDERING PIEW AMERIKALS AND STRICKLIBES, REPORT ANY DESCRIPANCY TO THE PROJECT MANAGES FOR MARKING LOCATIONS OF EXISTING UTILITIES. CONTACT MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCLANDING NOTIFY DEPARTMENT OF PUBLIC WORKS.

TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION AND SIZE OF THE EXISTING UTILITIES. A MINIMUM OF ONE FOOT VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN EXISTING AND PROPOSED UTILITIES. TEST PITS SHOULD BE COMPLETED PRIOR TO ORDERING ANY STRUCTURES OR PIPE MATERIALS. NOTIFY ENGINEER OF ANY CONFLICT WITH PROPOSED PLANS.



PROPOSED	DESCRIPTION	EXISTING	LEGEND	PROPOSED	DESCRIPTION	EXISTING
EP	EDGE OF PAVEMENT	EP.		•	FIRE HYDRANT	-6-
MH	MANHOLE	MH		E C	PLUG	E .
WV	WATER VALVE	WV	-		- OVERHEAD WIRES	
WM	WATER METER	WV WM		V	UTILITY POLE	ď
GM	GAS METER	GM		1000		50
TCB	TRAFFIC CONTROL BOX	TCB	-	UE	UNDERGROUND ELECTRIC	UE
LP	LIGHT POLE	LP	-	— T —	 TELEPHONE 	
LP/S	LIGHT POLE WITH SIGNALS	LP/S	_	— G — — E —	GAS MAIN ELECTRICAL	G
	CURB & GUTTER	===	=		TRANSFORMER	II
	- CG-2				HANDICAP	
s	SEWER	s			RAMP (CG-12)	ZHA
SL	- SANITARY LATERAL	SL			 GUARDRAIL 	0 0 0
• C.O.	CLEAN OUT	o C.O.	9.	v v	* FENCE	W W W
117,71100,000	STORM SEWER	()		^ _	TRAFFIC FLOW	0 0
w	- WATER MAIN -	w		-	LIGHT	17
	CURB INLET			•	MANHOLE	0

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Job No. 07-076

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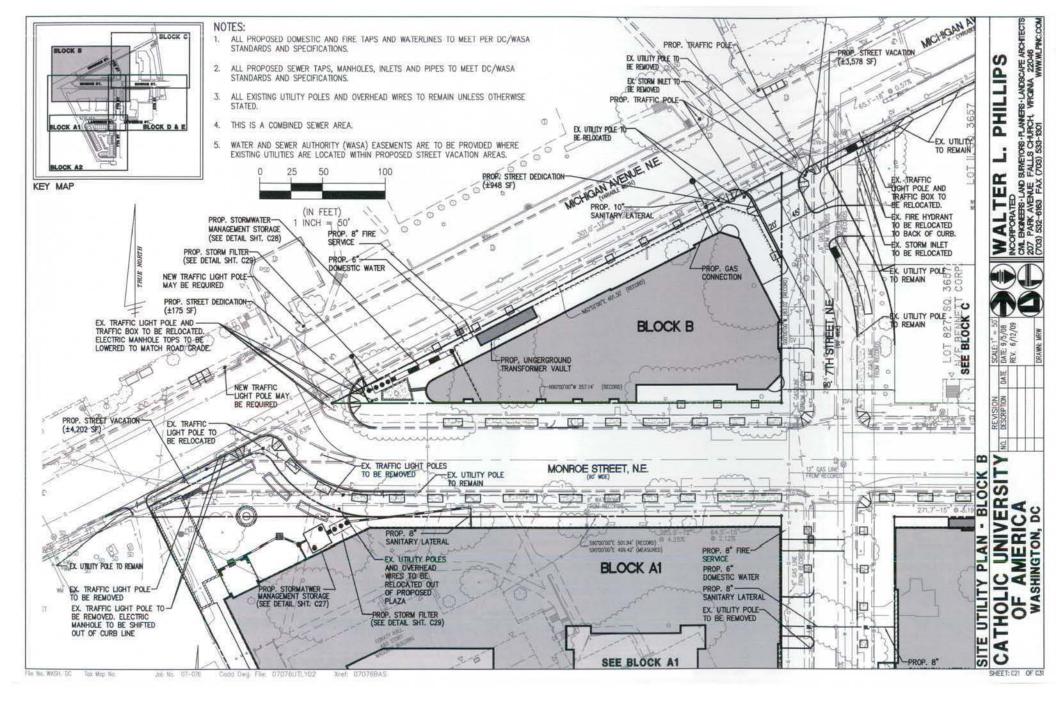
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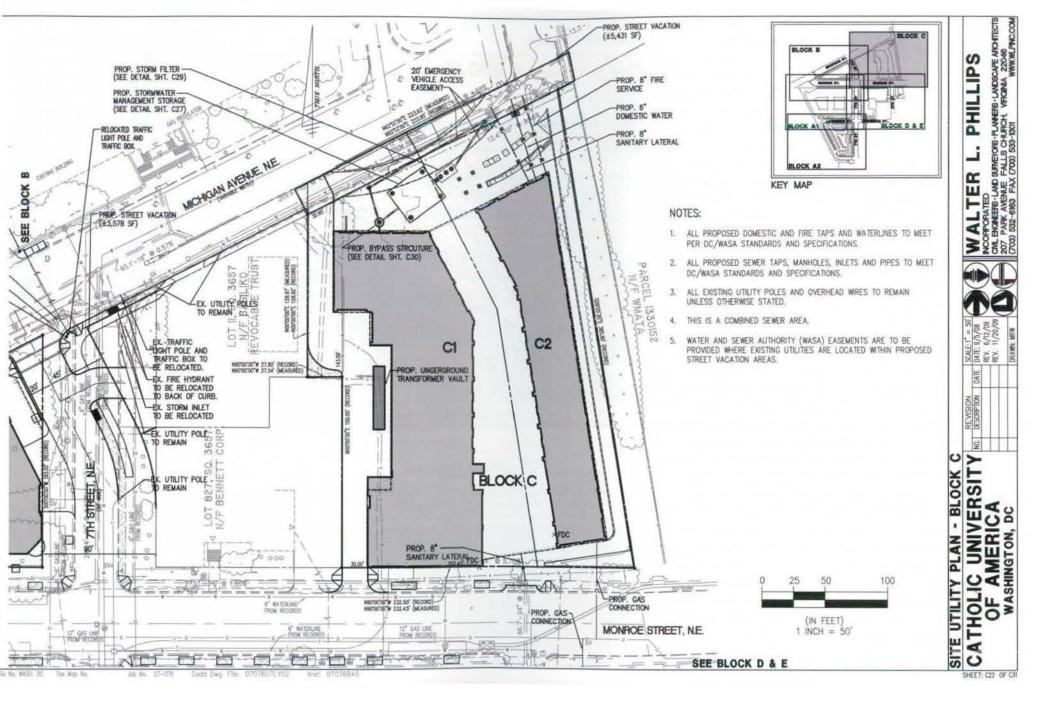
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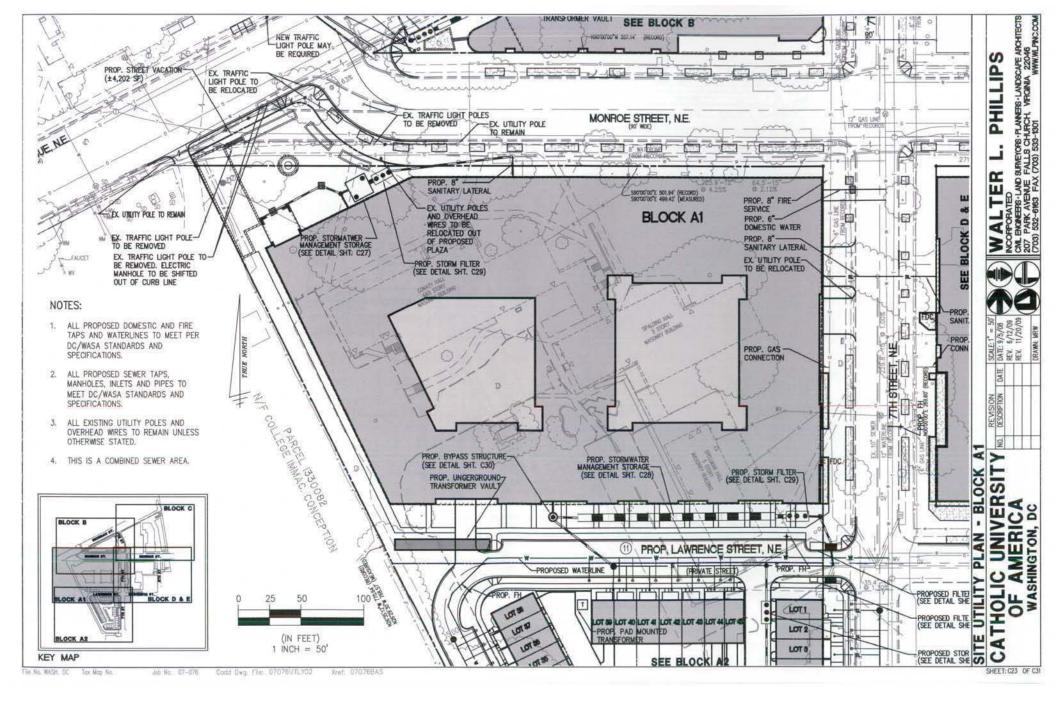
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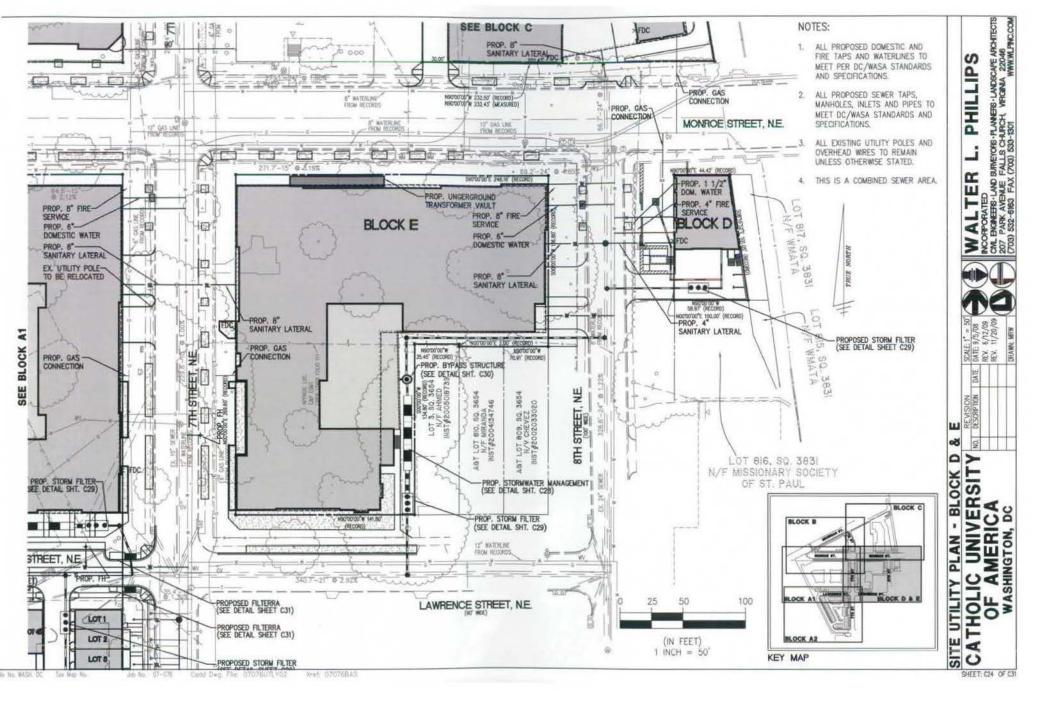
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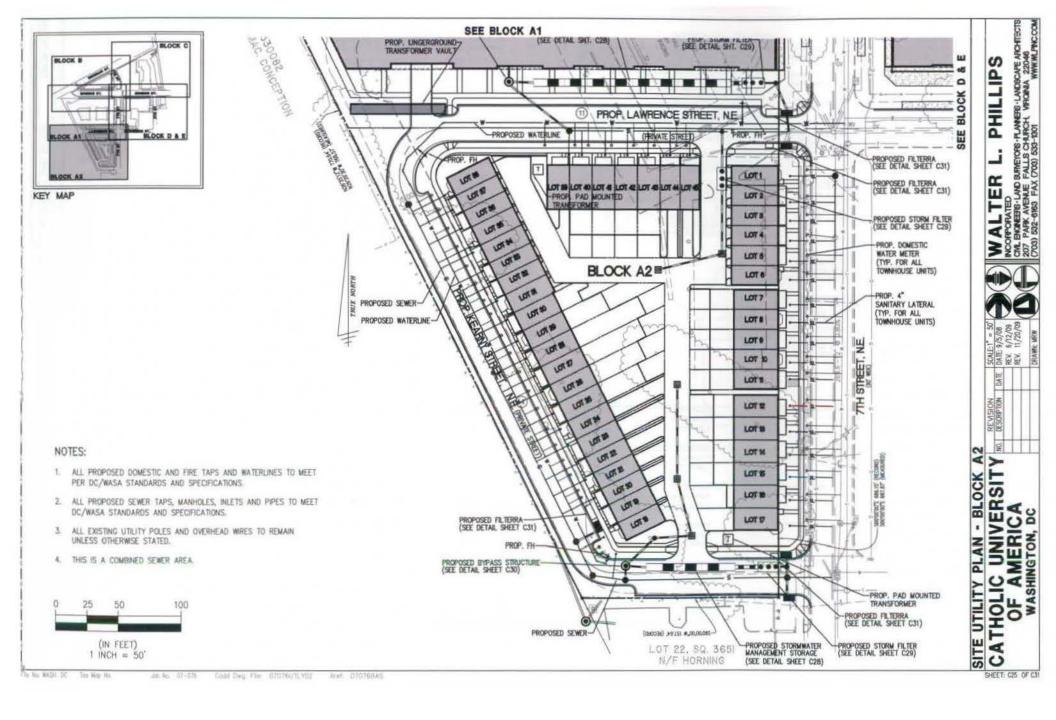
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DC/WASA GENERAL NOTES:

- 1. NOTIFY DC/WASA ONE WEEK PRIOR TO START OF CONSTRUCTION. UTILITY INSPECTION SECTION AT 202-787-2377, WATER SERVICES 202-612-3400 OR 3460 AND SEWER SEDVICES 202-264-3824 OD 3820
- 2. DEVELOPERS, CONTRACTORS AND PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-RIJII T INFORMATION TO APPROPRIATE DC/WASA INSPECTOR(S) FOR REVIEW AND ADDROVAL
- 3 ONCE THE WASA INSPECTOR APPROVES THE AS-RIBLT A CORY MIST RE SURMITTED TO THE DOCUMENTS AND PERMITS OFFICE AT ROOM 203 AND THE WATER AND SEWER DESIGN SECTION AT 5000 OVERLOOK AVENUE, S.W., 5TH FLOOR,
- 4 LINDER DC /WASA CUSTOMER FEES AND CHARGES CONTRACTORS PLUMBERS OWNERS ARE RESPONSIBLE FOR EXCAVATIONS BACKFILLING REPAYING AND RESTORATION OF PUBLIC SPACE FOR STREET AND SIDEWALKS CUTS. FOR NEW UTILITIES. CONNECTIONS. TAPS AND ABANDONMENT OF SERVICES WITHIN PUBLIC SPACE UNDER DC/WASA INSPECTION, DC/WASA IS NOT RESPONSIBLE FOR FINAL RESTORATION OF STREET AND SIDEWALK CUTS PERFORMED.

METER & METER TRANSMITTING DEVICES NOTES:

THE AUTHORITY HAS INSTALLED A FIXED NETWORK AUTOMATIC METER READING SYSTEM THIS SYSTEM WILL FLIMINATE THE REQUIREMENT TO READ METERS MANUALLY, METERS INSTALLED BY WASA OR PRIVATE OWNERS OF METERS WILL NEED TO MEET THE FOLLOWING SPECIFICATIONS IN ORDER FOR WASA TO READ METERS AUTOMATICALLY:

- 1 METERS INSTALLATIONS AND INSPECTIONS MUST COMPLY WITH ALL DCMR CODES AND SPECIFICATIONS.
- ALL NEW METERS INSTALLED INCLUDING DRIVATELY OWNED METERS MUST BE "TRUE ABSOLUTE ENCODER" TYPE METERS OR "DIRECT-READ" METERS THAT CONVERT METER READINGS TO DIGITAL PULSES FROM THE METER REGISTERS.
- 3. ALL METER REGISTERS SHOULD BE ABLE TO CONVERT ALL THE DIALS IN THE METER REGISTER TO DIGITAL PULSES
- THE METERS MUST MEASURE WATER IN 100 CUBIC FEET INCREMENTS. ALL NEW METERS MUST HAVE A METER READING TRANSMITTING UNIT ATTACHED TO THE METER REGISTERS, SEALED SO AS TO MAKE IT WATER TIGHT. THE TRANSMITTING UNIT SHOULD BE PROGRAMMABLE TO DOWASA'S FCC APPROVED RADIO FREQUENCY, AND COMPATIBLE WITH HEXAGRAM, INC. HARDWARE AND SOFTWARE.
- 5. ALL NEW METERS 3" OR GREATER MUST HAVE TEST PLUG IN THE METER.
- ALL NEW METERING CONFIGURATIONS SHOULD HAVE STRAINER WHERE APPROPRIATE TO MANUFACTURER'S SPECIFICATIONS.

PRELIMINARY GAS DEMAND

BUILDING A-1:	3 ROOFTOP VENTILATION UNITS, 780 CFH EACH	2,340 CFH
	308 GAS RANGES, 40 CFH EACH	12,320 CFH
	RETAIL ALLOWANCE	2,000 CFH
BUILDING A-2:	45 GAS FURNACES, 75 CFH EACH	3,375 CFH
	45 DOMESTIC WATER HEATERS, 40 CFH EACH	1,800 CFH
	45 GAS RANGES, 40 CFH EACH	1,800 CFH
BUILDING B:	2 ROOFTOP VENTILATION UNITS, 530 CFH EACH	1,060 CFH
	140 GAS RANGES, 40 CFH EACH	6,400 CFH
	RETAIL ALLOWANCE	2,000 CFH
BUILDING C:	2 ROOF TOP VENTILATION UNITS, 580 CFH EACH	1,160 CFH
	152 GAS RANGES, 40 CFH EACH	6,080 CFH
	RETAIL ALLOWANCE	2,000 CFH
BUILDING D:	BUILDING HEAT, 100 MBH	100 CFH
	DOMESTIC WATER HEATER, 40 MBH	40 CFH
BUILDING E:	2 ROOFTOP VENTILATION UNITS, 610 CFH EACH	1,220 CFH
	214 GAS RANGES, 40 CFH EACH	8,560 CFH
	RETAIL ALLOWANCE	2,000 CFH
	TOTAL	44,795 CFH

OUTSIDE LOCATIONS:

- A THE NEW METER LID MILET BE OF A COMPOSITION AND TENRILE CEDENCELL SO AS TO PERMIT A RADIO SIGNAL TO PROPAGATE THROUGH THE METER LID AND SECURE THE METER PIT. AGAINST LIGHT VEHICLE TRAFFIC AND PEDESTRIAN FOOT TRAFFIC. LARGE METER INSTALLATIONS MUST HAVE METER LIDS THAT MAY WITHSTAND HEAVY VEHICLE TRAFFIC
- R THE RADIO-TRANSMITTING DEVICE MUST BE SECURELY ANCHORED TO THE INDERSIDE OF THE NEW TRANSMITTER FRIENDLY METER LID. SO AS TO PERMIT A RADIO SIGNAL TO COMMUNICATE WITH A DATA COLLECTION LINIT
- C. THE RADIO-TRANSMITTING DEVICE MAY ALSO BE INSTALLED THROUGH THE EXISTING CAST IRON METER LID OR A NEW CAST IRON METER LIDS SO AS PERMIT A SIGNAL TO COMMUNICATE WITH A DATA COLLECTION DEVICE AND POSE NO TRIPPING HAZARD.

APPROVED METERS, METER LIDS AND MTU CURRENTL USED BY DCWASA:

- 1. HEXAGRAM INC. METER TRANSMITTING UNIT:
- 2. ABB WATER METERS INC. WITH MTU PERMANENTLY POTTED AT THE FACTORY - MODEL C3000 2"-8" COMPOUND METERS:
- - METER LID 21 1/2". METER LID MAY NEED TO BE HEAVY DUTY CAST IRON WITH THE RADIO TRANSMITTING DEVICE INSTALLED THROUGH THE EXISTING CAST IRON METER LID TO ALLOW REMOVAL OF THE LARGER SIZE METERS

CATHOLIC UNIVERSITY SOUTH CAMPUS REDEVELOPMENT AUGUST 24 2008

BUILDING	UNITS OR FLOOR AREA	WSFU PER UNIT ^A	TOTAL DOMESTIC WSFU	TOTAL DOMESTIC GPM ^B	TOTAL DOMESTIC GPD ^c	COOLING TOWER TONS	COOLING TOWER GPM	COOLING TOWER GPD ⁰	TOTAL SUPPLY GPD	SANITARY DRAINAGE GPD ^e
A-1	308	10.7	3,300	464	1,531,200		-	-	1,531,200	1,531,200
A-1 Retail	63,450 SF	0.0066	418	131	94,320	250	10	7,200	101,520	97,920
A-2 (Townhouses)	45	14.3	644	151	217,440	•	•	•	217,440	217,440
8	140	10.7	1,530	273	393,120		-		393,120	393,120
B Retail	28,650 SF	0.0066	189	88	63,360	110	4	2,880	66,240	67,680
c	152	10.7	1,630	284	408,960	-	-	-	408,960	408,960
C Retail	27,000 SF	0.0066	179	86	61,920	110	4	2,880	64,800	63,360
D	3,000 SF	27.25	27.25	42	30,240	-	-	-	30,240	30,240
E	214	10.7	2,290	358	515,520		-	-	515,520	515,520
E Retail	25,500 SF	0.0066	169	83	59,760	100	4	2,880	62,640	61,200
TOTALS			197,010		3,375,840		*	15,840	3,391,680	3,383,760

FOOTNOTE A: BASED ON TABLE E101B. 2000 IPC APPENDIX E

APARTMENT UNIT:		
1 BATH GROUP		3.6
1/2 BATH GROUP		2.9
DISHWASHER		1.4
KITCHEN SINK		1.4
CLOTHES WASHER		1.4
	TOTAL	10.7 WSFU
TOWNHOUSE UNIT:		
2 BATH GROUP		7.2
1/2 BATH GROUP		2.9
DISHWASHER		1.4
KITCHEN SINK		1.4
CLOTHES WASHER		1.4
	TOTAL	14.3 WSFU
BUILDING D (3,000 SF I	RETAIL):	
2 WATER CLOSETS (FL	USH VALVE)	20.0
2 LAVATORIES		4.0
	Ī	0.25
1 DRINKING FOUNTAIN		
1 DRINKING FOUNTAIN 1 SERVICE SINK		<u>3.0</u>
	TOTAL	<u>3.0</u> 27.25 WSFU

(ASSUMING 25% RESTAURANT A-2 AND 5.000 SF AVERAGE RETAIL TENANT).

1 WATER CLOSET PER 1,914 SF: 0.0052 WSFU/SF 1 LAVATORY PER 2,500 SF: 0.0008 WSFU/SF 1 SERVICE SINK PER 5.000 SF: 0.0006 WSFU/SF TOTAL 0.0066 WSFU/SF

FOOTNOTE B: BASED ON TABLE E102, 2000 IPC, APPENDIX E

FOOTNOTE C: BASED ON 24 HOUR PEAK DEMAND

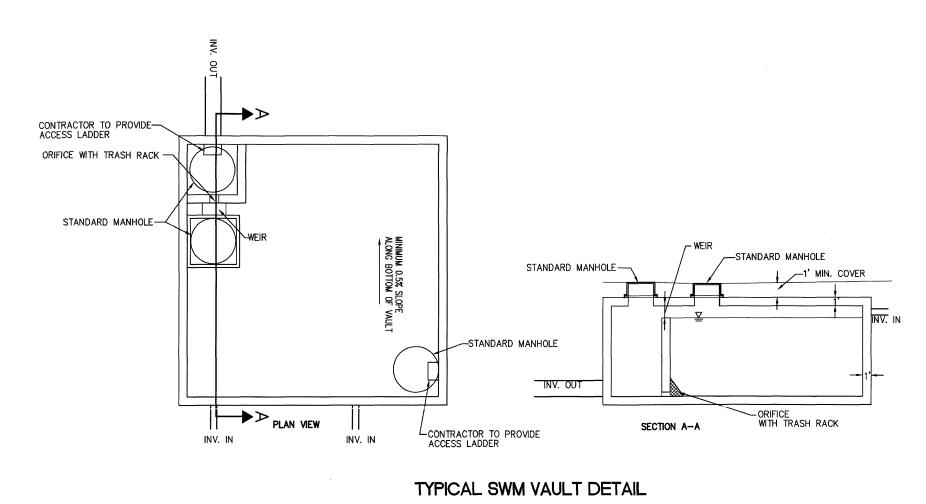
FOOTNOTE D: BASED ON 12 HOURS PER DAY COOLING TOWER OPERATION

FOOTNOTE E: TOTAL DOMESTIC GPD + 0.5 X COOLING TOWER GPD

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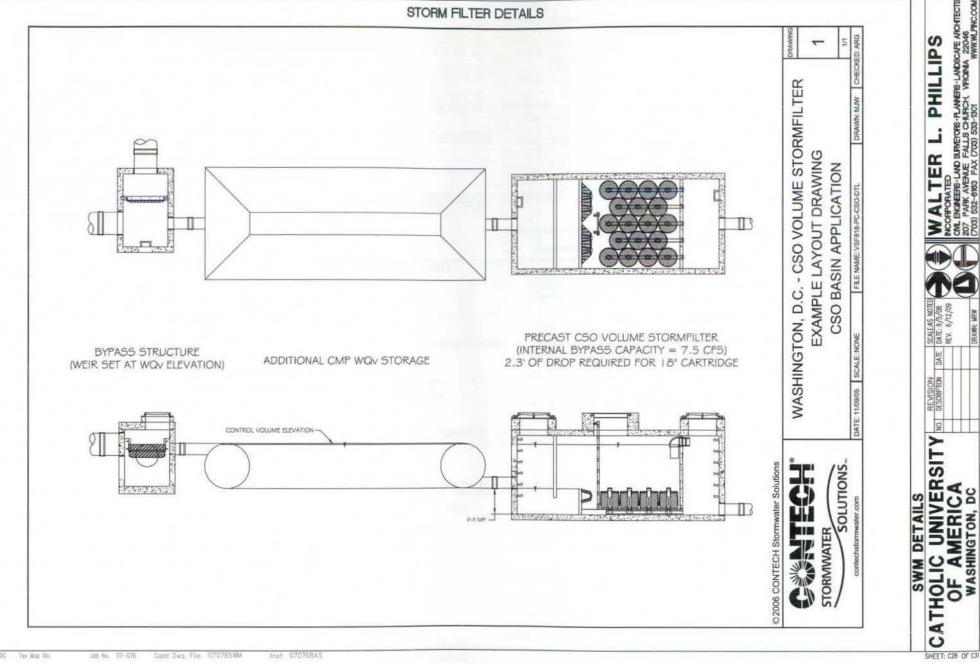
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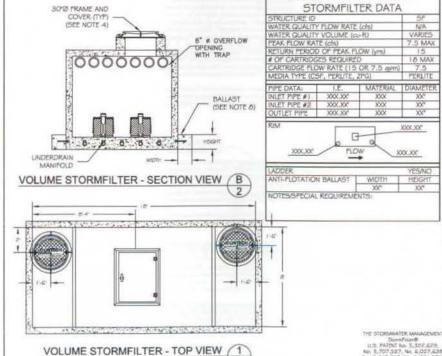
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PHILLIPS



GENERAL NOTES

- 1) VOLUME STORMFILTER BY CONTECH STORMWATER SOLUTIONS: WEST: PORTLAND, OREGON (500) 548-4667; EAST: SCARBOROUGH, ME (877) 907-8676; MID-ATLANTIC: ELXRIDGE, MD (866) 740-3318.
- 2) FILTER CARTRIDGE(5) TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW.
- 3) PRECAST VALILT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478. DETAIL REPLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
- 4) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
- 5) STORMFILTER REQUIRES 2.3 FEET OF DROP FROM INLET TO OUTLET. IF LESS DROP IS AVAILABLE, CONTACT CONTECH STORMWATER SOLUTIONS
- G) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST STORMFILTER VALLET EQUIPPED WITH CAST-IN BOOT CONNECTIONS AT INLET AND OUTLET LOCATIONS FOR WATER-TIGHT CONNECTIONS.
- 7) PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS. IF A SHALLOWER SYSTEM IS REQUIRED, CONTACT CONTECH STORMWATER SOLUTIONS FOR OTHER OPTIONS.
- B) ANTI-FLOTATION BALLAST TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR, IF REQUIRED. BALLAST TO BE SET ALONG ENTIRE LENGTH OF BOTH SIDES OF THE STRUCTURE.
- 9) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR MORE



Fire No. WASH, DC Tox Vote No.

SOLUTIONS.

contechstormwater.com

DATE: 11/09/05 | SCALE: NONE Job No. 07-076 Clock! Twy File: 070765WM

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No. 6.649.046, No. 5.624.576, AND OTHER U.S. AND FOREIGN PASENTS PENDING 오

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TOP AND SECTION VIEWS, NOTES AND DATA

CSO BASIN APPLICATION

8' x 18' PRECAST VOLUME STORMFILTER

FILE NAME: VSF818-PC-CSO-DTL

DRAWN: MJW CHECKED: ARG

8' x 18' PRECAST VOLUME

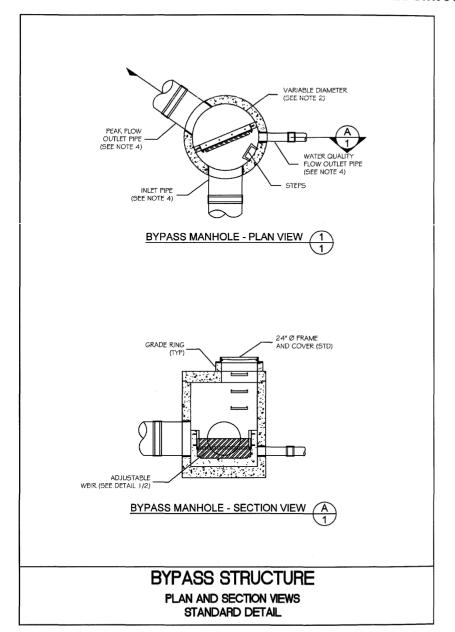
STORMWATER SOLUTIONS.

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DATE 11/09/05 SCALE: NONE

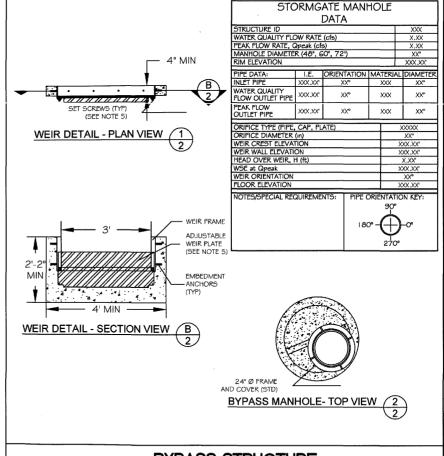
CSO BASIN APPLICATION FILE NAME: VSF#18-PC-CBO-DTI, DRAWN M.W CHECKED: ARG

BYPASS STRUCTURE DETAILS



GENERAL NOTES

- PRECAST MANHOLE TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478. DETAIL DRAWING REFLECTS DESIGN INTENT ONLY.
 ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP
 DRAWING.
- 2) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
- 3) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- 3) INCEL AND QUITE! FIFTING TO BE STEED ILE OF ENGINEER AND FRAUDED OF CONTRACTOR.
 4) CONTRACTOR TO ADJUST WER TO DESIGN ELEVATION SPECIFIED IN DATA TABLE BELOW. DO NOT EXCEED 5.0 FT-LBS TORQUE WITEN TICHTENING SCREWS ON WEIR FRAME. SEAL WEIR TO FRAME WITH RTV SILICONE SEALANT AFTER FINAL ADJUSTMENT.



BYPASS STRUCTURE

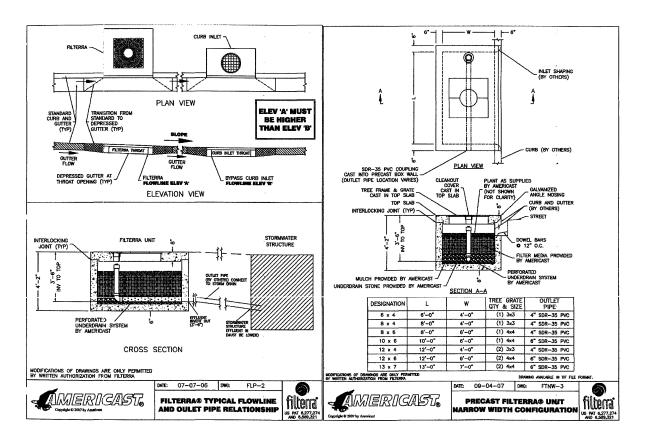
TOP VIEW, WEIR DETAIL, DATA AND NOTES STANDARD DETAIL

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FILTERRA DETAILS



FILTERRA NOTES

Construction & Installation

- A. Each unit shall be constructed at the locations and elevations according to the sizes ahown on the approved drawings. Any modifications to the elevation or location shall be at the direction of and approved by the Ingineer.
- B. If the Filterra® is stored before installation, the top slab must be placed on the box using the 2x4 wood provided, to prevent any contamination from the site. All internal fittings supplied (if any), must be left in place as per the delivery.
- C. The unit shall be placed on a compacted sub-grade with a minimum 6-inch gravel base matching the final grade of the curb line in the area of the unit. The unit is to be placed such that the unit and top slab match the grade of the curb in the area of the unit. Compact undisturbed sub-grade materials to 95% of maximum density at +1-2% of optimum moisture. Unsuitable material below sub-grade shall be replaced to the site engineer's approval.
- D. Outlet connections shall be aligned and sealed to meet the approved drawings with modifications necessary to meet site conditions and local regulations.
- E. Once the unit is set, the internal wooden forms and protective mesh cover must be left intact. Remove only the temporary wooden shipping blocks between the box and top slab. The top lid should be sealed onto the box section before backfilling, using a non-shrink grout, butyl rubber or similar waterproof seal. The boards on top of the lid and boards sealed in the unit's throat must NOT be removed. The Supplier (Americast or its authorized dealed) will remove these sections at the time of activation. Backfilling should be performed in a careful manner, bringing the appropriate fill material up in 6" lifts on all sides. Precast sections shall be set in a manner that will result in a watertight joint. In all instances, installation of Filtera® unit shall conform to ASTM specification CS91 "Standard Practice for Installation of Underground Precast Utility Structures", unless directed otherwise in contract documents.
- F. Curb and gutter construction (where present) shall ensure that the flow-line of the Filters[®] units is at a greater elevation than the flow-line of the bypass structure or relief (drop inlet, curb cut or similar). Failure to comply with this guideline may cause failure and/or damage to the Filterra[®] cavironmental device.
- G. Each Filterra® unit must receive adequate irrigation to ensure survival of the living system during periods of drier weather. This may be achieved through a piped system, gutter flow or through the tree grater.

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Activation

- A. Activation of the Filterra® unit is performed ONLY by the Supplier. Purchaser is responsible for Filterra® inlet protection and subsequent clean out cost. This process cannot commence until the project site is fully stabilized and cleaned (fall landscaping, grass cover, final paving and street sweeping completed), negating the chance of construction materials contaminating the Filterra® system. Care shall be taken during construction not to damage the protective throat and top plates.
- B. Activation includes installation of plant(s) and mulch layers as necessary.

Included Maintenance

- A. Each correctly installed Filterra® unit is to be maintained by the Supplier, or a Supplier approved contractor for a minimum period of I year. The cost of this service is to be included in the price of each Filterra® unit. Extended maintenance contracts are available at extra cost upon request.
- B. Annual included maintenance consists of a maximum of (2) scheduled visits. The visits are scheduled seasonally; the spring visit aims to clean up after winter loads that may include salts and sands. The fall visit helps the system by removing excessive leaf litter.
- C. Each Included Maintenance visit consists of the following tasks.
 - Filterra[®] unit inspection
 - Foreign debris, silt, mulch & trash removal
 - Filter media evaluation and recharge as necessary
 - Plant health evaluation and pruning or replacement as necessary
- Replacement of mulch
- Disposal of all maintenance refuse items
- Maintenance records updated and stored (reports available upon request)
- D. The beginning and ending date of Supplier's obligation to maintain the installed system shall be determined by the Supplier at the time the system is activated. Owners must promptly notify the Supplier of any damage to the plant(s), which constitute(s) an integral part of the bioretention technology.

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