

PROGRAM:

DCPCA PARKSIDE SITE
APPROX. 20,029 GSF

WEST PROPERTY LINE IS SET 90'-0"
WEST OF THE SE CORNER OF THE
PROPERTY AT THE CORNER OF
HAYES STREET AND KENILWORTH
AVE. AND RUNS PERPENDICULAR
TO KENILWORTH TERRACE.

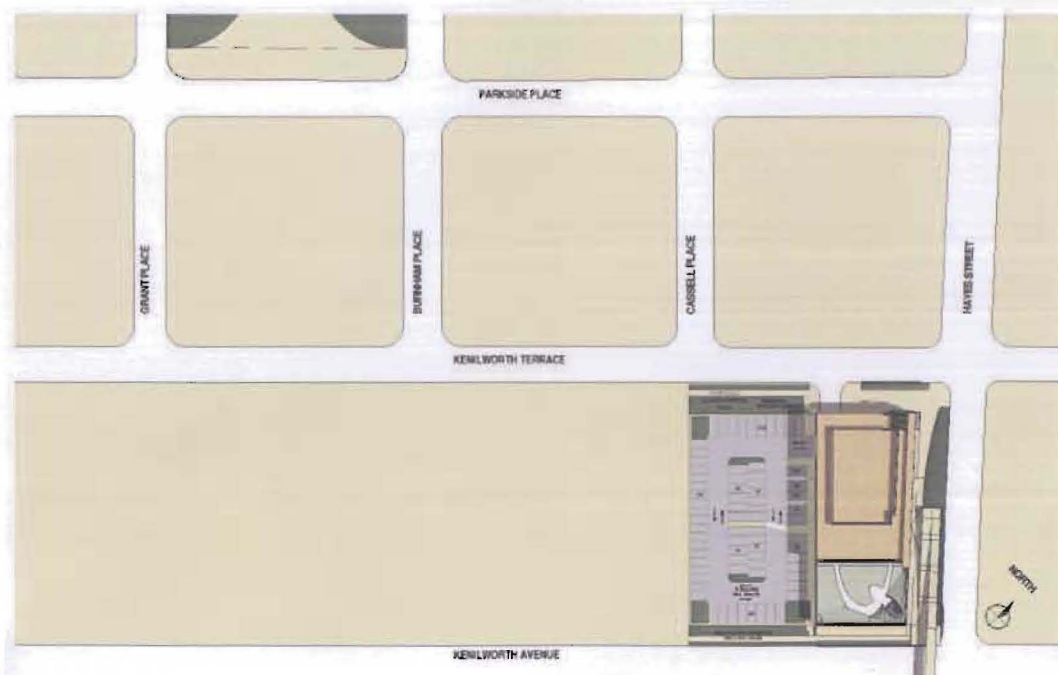
**PROPOSED NEW 3 STORY PRIMARY CARE
FACILITY**

DCPCA:	
LEV. 1 PROGRAM:	8,810 GSF
LEV. 1 ENCLOSED	
PKG. AREA:	9,554 GSF
LEV.2:	12,810 GSF
LEV.3:	12,810 GSF
TOTAL GSF:	43,784 GSF

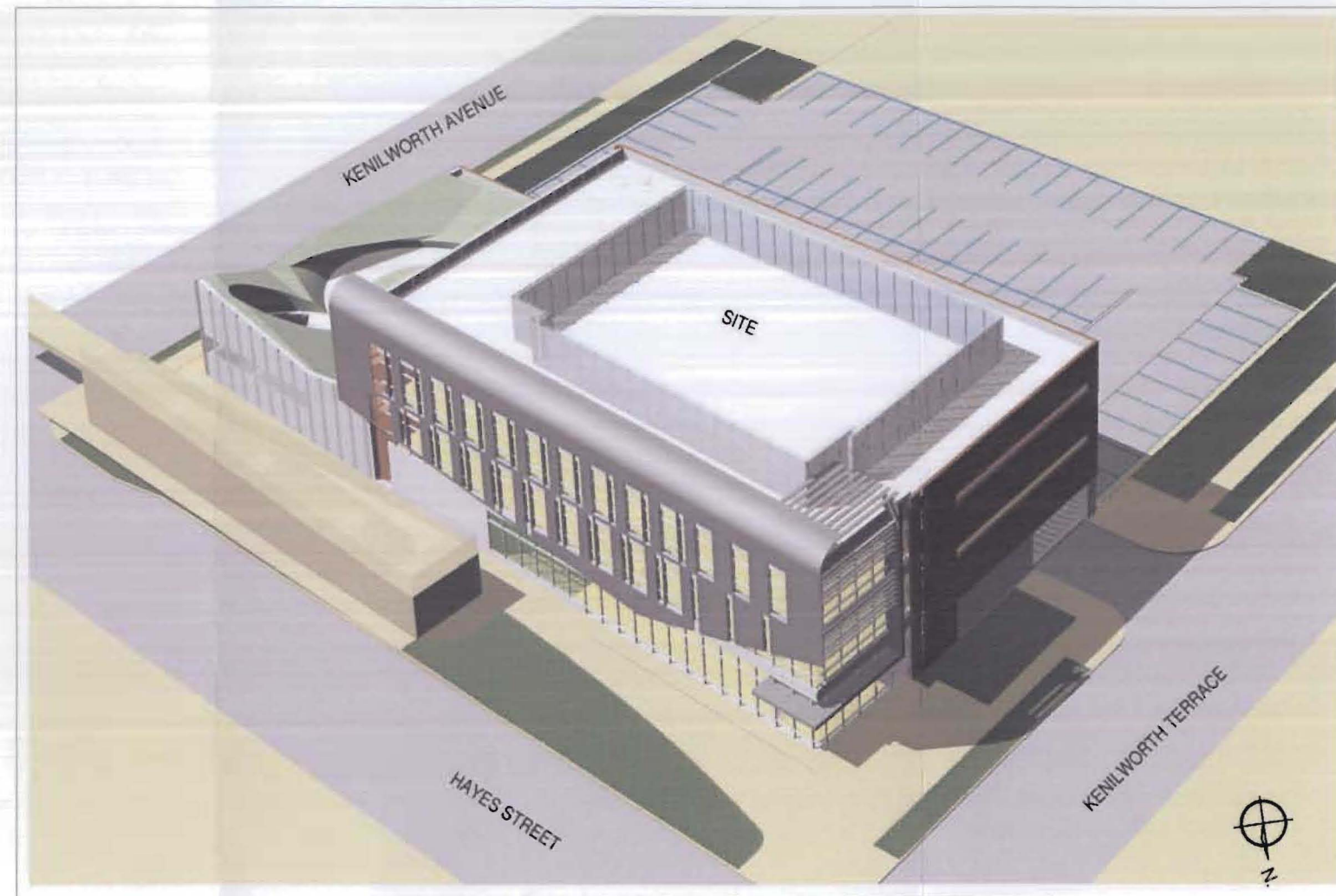
APPROX. 12 ENCLOSED SURFACE PKG. SPACES.

SECURED TEMPORARY PARKING:
APPROX. 24,240 GSF
73 SECURED TEMPORARY PARKING SPACES.

TOTAL PKG. 85 SPACES.



KEY PLAN



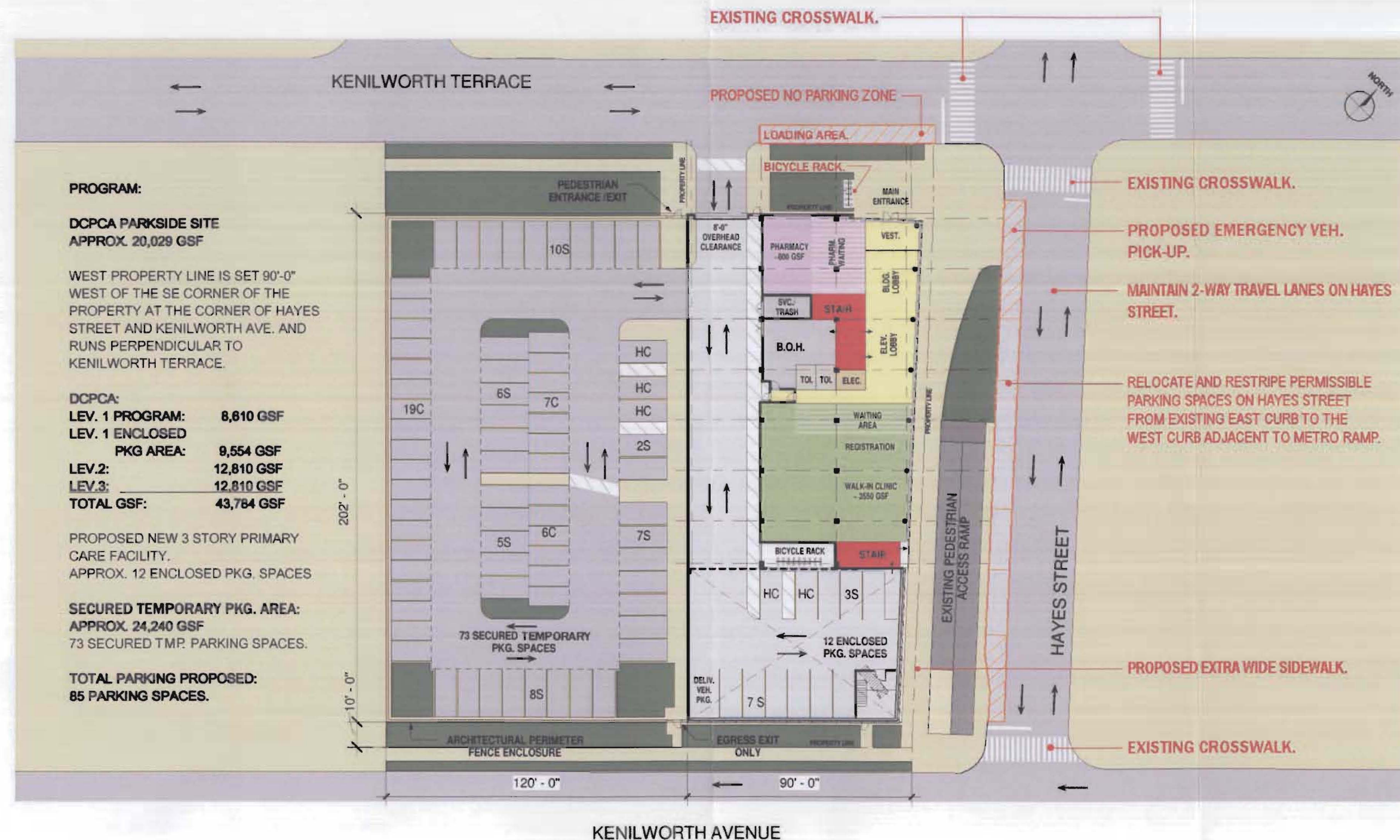
NORTHEAST AERIAL VIEW

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

SITE AERIAL - NEIGHBORHOOD KEY PLAN

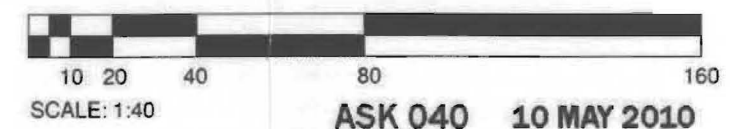
ASK 039 10 MAY 2010

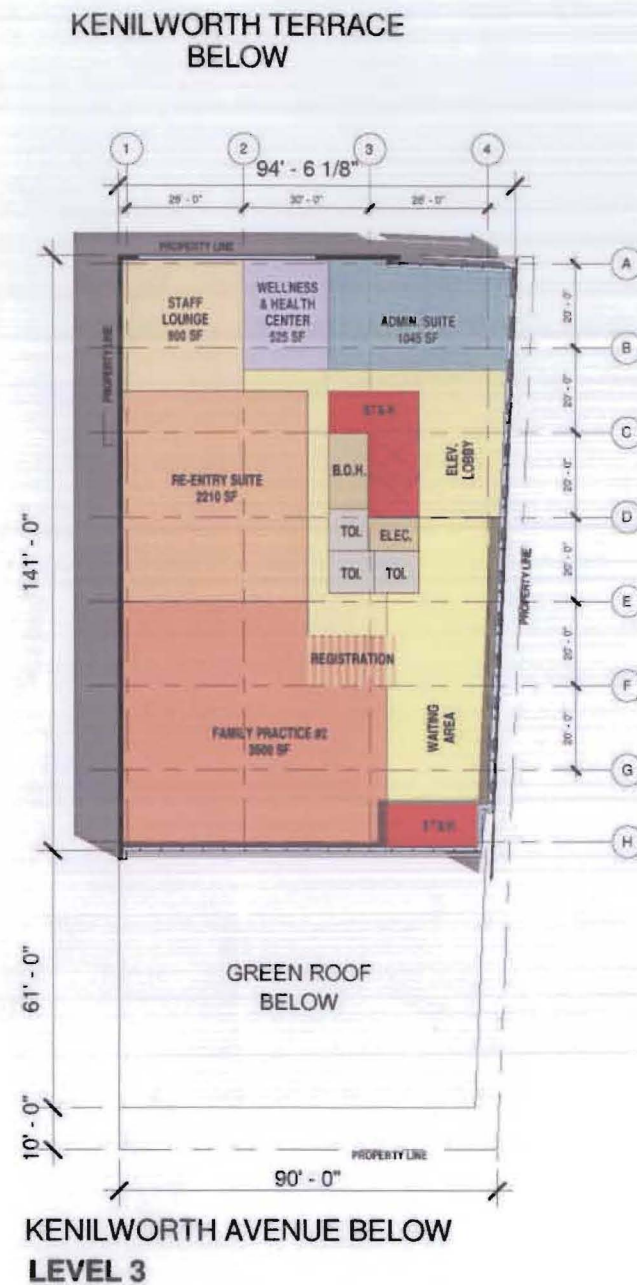


PARKSIDE HEALTH CARE CENTER

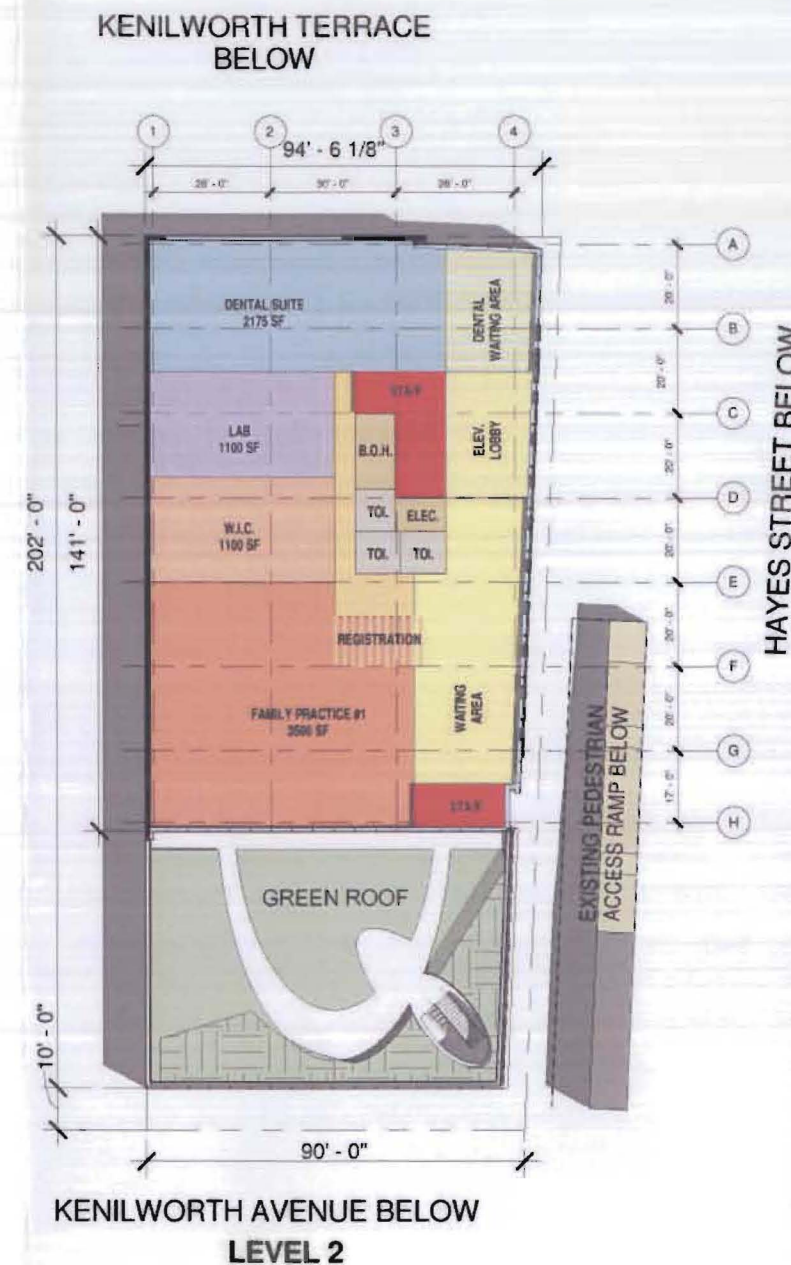
PARKSIDE DEVELOPMENT, WASHINGTON DC

LEVEL ONE FLOOR PLAN





HAYES STREET BELOW



HAYES STREET BELOW

PROGRAM:

**DCPCA PARKSIDE SITE
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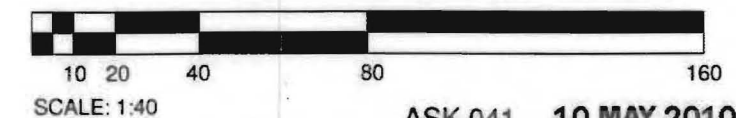
WEST PROPERTY LINE IS SET 90'-0" WEST OF THE SE CORNER OF THE PROPERTY AT THE CORNER OF HAYES STREET AND KENILWORTH AVE. AND RUNS PERPENDICULAR TO KENILWORTH TERRACE.

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LEV. 3: 12,810 GSF
TOTAL GSF: 43,784 GSF

PROPOSED NEW 3 STORY PRIMARY CARE FACILITY.
 APPROX. 12 ENCLOSED PKG. SPACES

**SECURED TEMPORARY PKG. AREA:
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 73 SECURED TEMPORARY PARKING SPACES.**

TOTAL PKG: 85 SPACES.



ASK 041 10 MAY 2010

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



LEVEL TWO & THREE FLOOR PLANS

LITTLE
 DIVERSIFIED ARCHITECTURAL CONSULTING

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FACILITY**

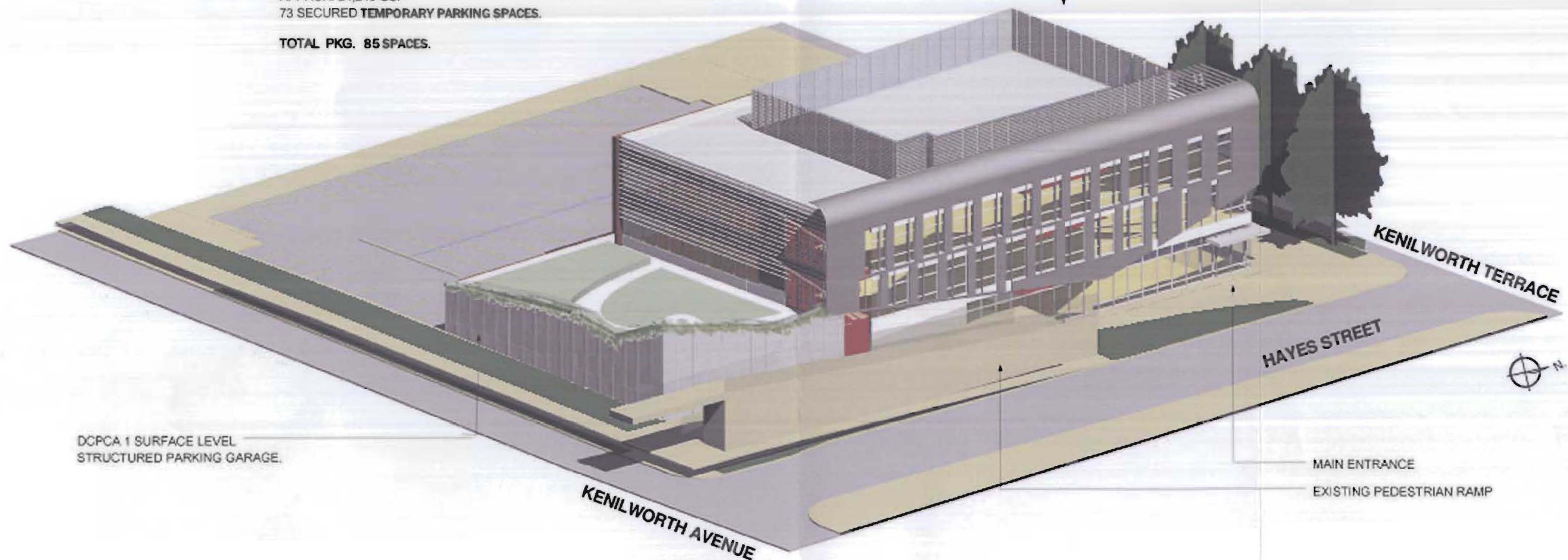
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TOTAL PKG. 85 SPACES.

DCPCA - PROPOSED NEW 3 STORY PRIMARY
CARE FACILITY; APPROX. 43,784 GSF



DCPCA 1 SURFACE LEVEL
STRUCTURED PARKING GARAGE.

MAIN ENTRANCE
EXISTING PEDESTRIAN RAMP

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

SOUTHEAST AXONOMETRIC VIEW

ASK 042 10 MAY 2010

PROGRAM:

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TOTAL PKG. 85 SPACES.

DCPCA - PROPOSED NEW 3 STORY PRIMARY
CARE FACILITY; APPROX. 43,784 GSF



DCPCA 1 SURFACE LEVEL STRUCTURED
PARKING GARAGE WITH A GREEN ROOF.

EXISTING PEDESTRIAN
ACCESS RAMP.

CANOPIED MAIN ENTRANCE AT
KENILWORTH TERRACE.

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

SE PERSPECTIVE VIEW FROM KENILWORTH AVE.

ASK 043 10 MAY 2010

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PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



PERSPECTIVE VIEW FROM NE
(INTERSECTION @ KENILWORTH TERRACE & HAYES STREET)

ASK 044 10 MAY 2010

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

PROGRAM:

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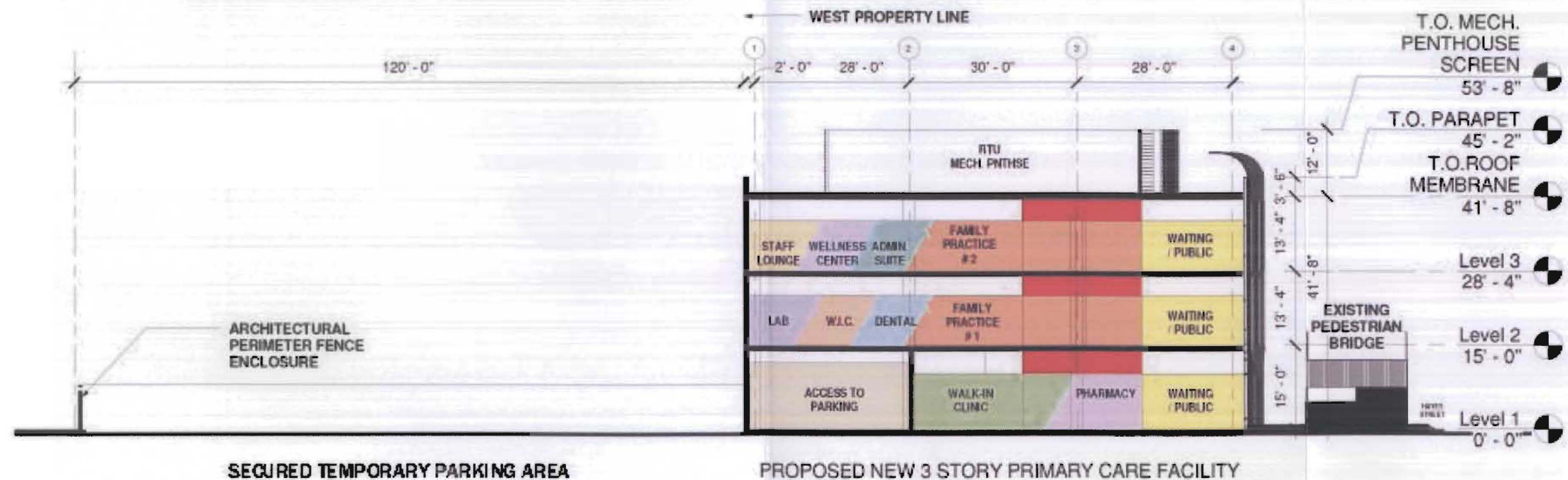
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PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

CROSS SECTION - WEST TO EAST

SCALE: 1/20
ASK 045 10 MAY 2010

LITTLE
GENERAL ARCHITECTURAL CONSULTING

DCPCA District of Columbia
Primary Care Association

PROGRAM:

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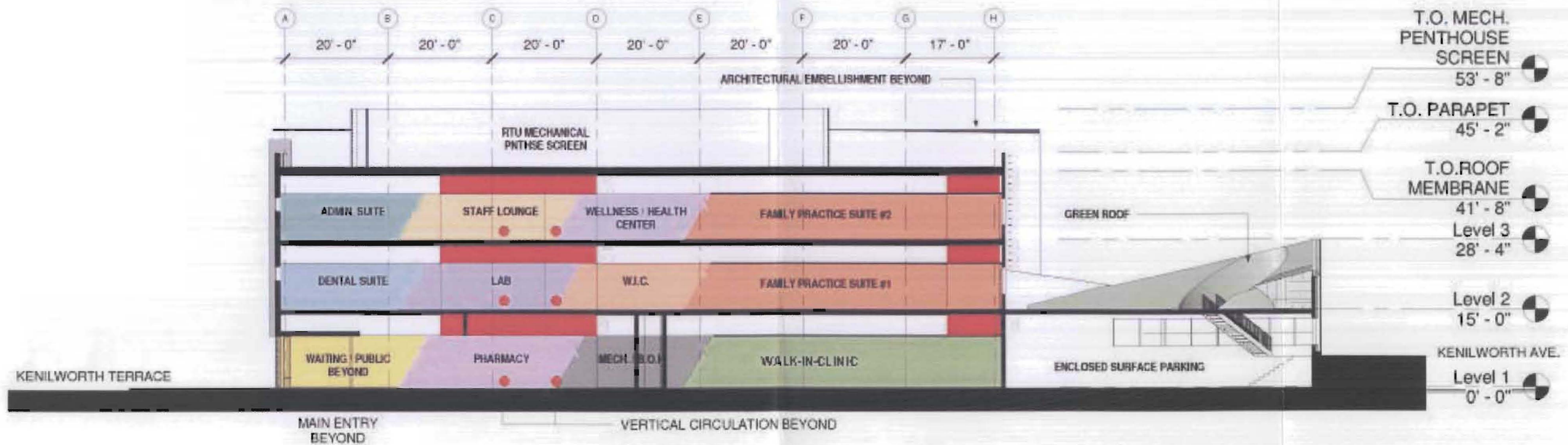
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PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



LONGITUDINAL SECTION - NORTH TO SOUTH



SCALE: 1/20

ASK 046 10 MAY 2010

LITTLE
DISTRICT OF COLUMBIA ARCHITECTURAL CONSULTING

WALL TYPES:

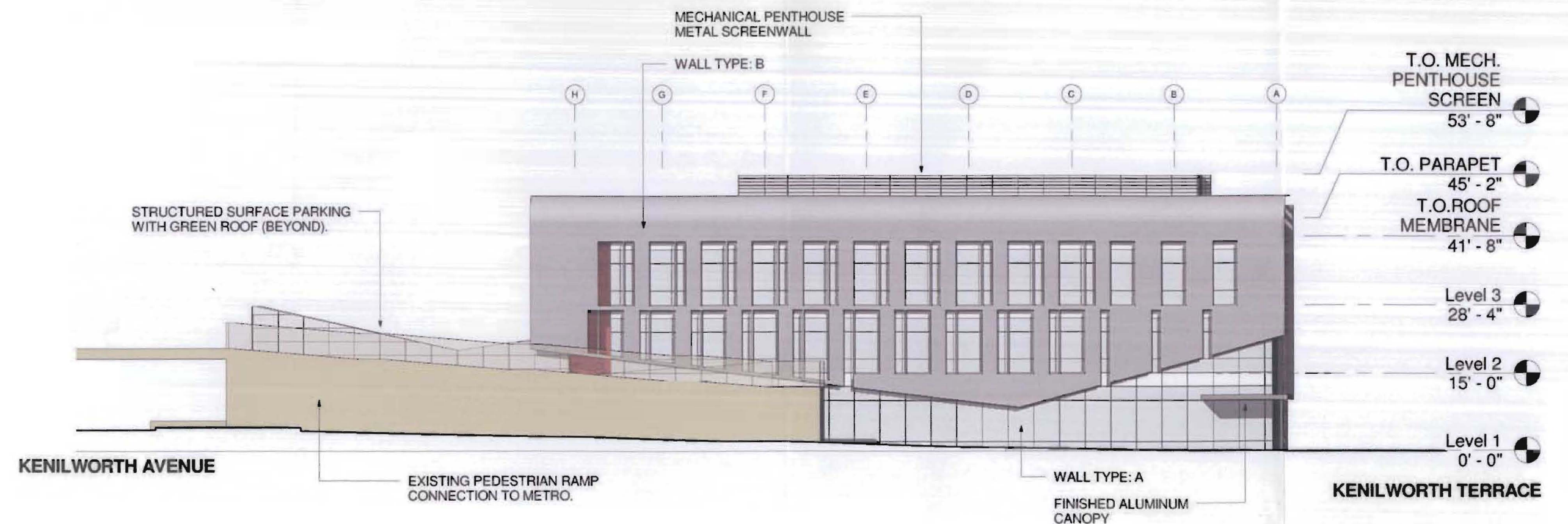
WALL TYPE: A - 1" LOW-E INSULATED VISION GLASS & 1/4" SPANDREL GLASS CURTAINWALL SYSTEM.

WALL TYPE: B - RAINSCREEN WALL SYSTEM. METAL STUD W/INTEGRAL EPS BOARD INSULATION AND SHEATHING, W/FINISHED CEMENT BOARD FACADE W/CONCEALED FASTENERS W/PUNCHED GLAZING. COLOR TO MATCH ARCHITECT'S SAMPLE.

WALL TYPE: C - MASONRY WALL SYSTEM. METAL STUD W/INTEGRAL EPS BOARD INSULATION AND SHEATHING. BRICK COLOR TO MATCH ARCHITECT'S SAMPLE. INCLUDE RIBBON WINDOW, LOW-E INSULATED VISION GLASS.

WALL TYPE: D - RAINSCREEN WALL SYSTEM. METAL STUD W/INTEGRAL EPS BOARD INSULATION AND SHEATHING, W/FINISHED ALUMINUM PANEL FACADE W/CONCEALED FASTENERS. COLOR TO MATCH ARCHITECT'S SAMPLE.

WALL TYPE: E - CONCRETE CONSTRUCTION WITH PUNCHED OPENINGS, AND STAINLESS STEEL SCREEN MESH ENCLOSURE, WITH LED LIGHTING BEHIND SCREEN.



PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

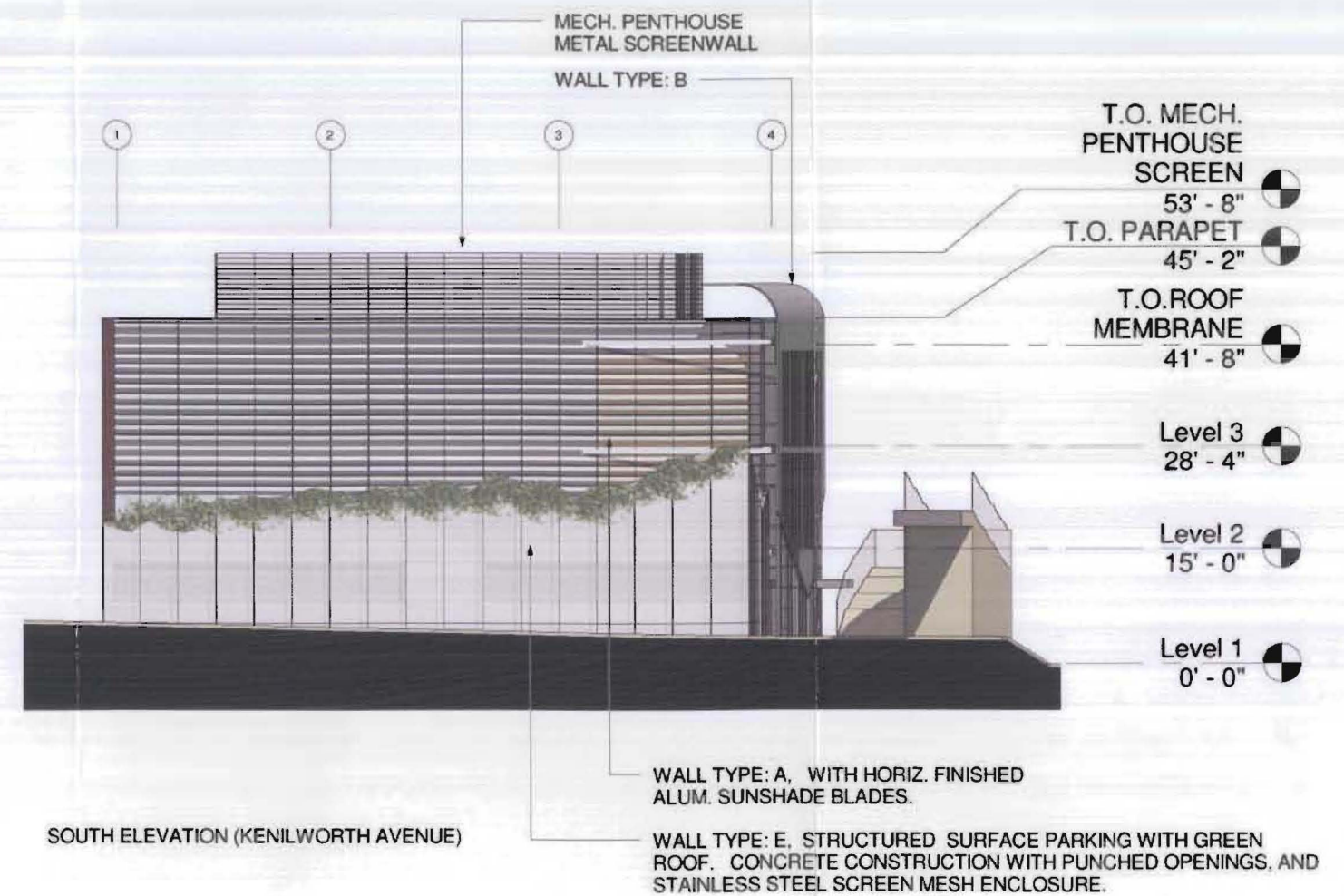
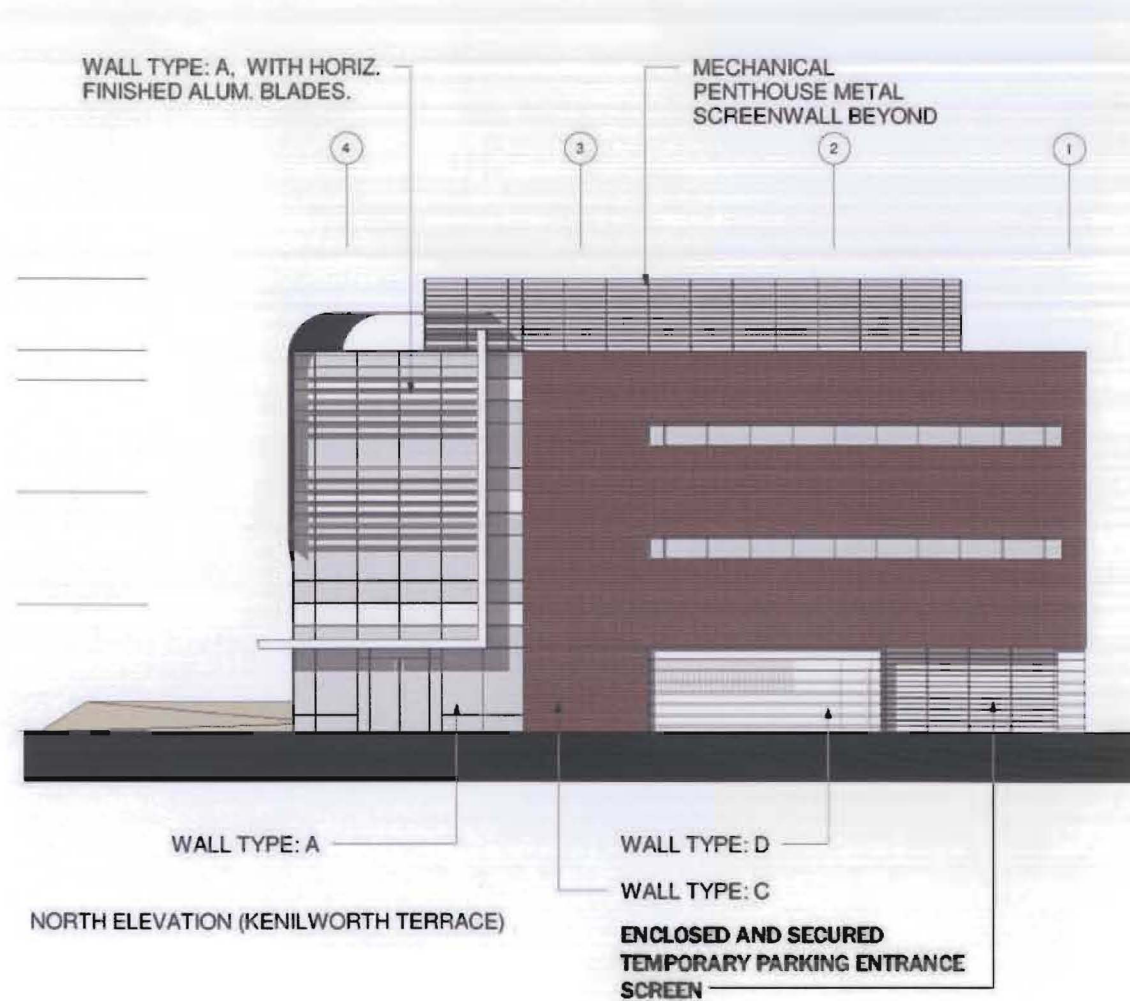
EAST ELEVATION

(HAYES STREET)



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DIVERSIFIED ARCHITECTURAL CONSULTING

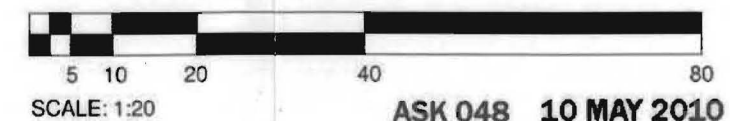
SEE EAST ELEVATION SHEET ASK: 047 10 MAY 2010 FOR WALL TYPE INFORMATION



PARKSIDE HEALTH CARE CENTER

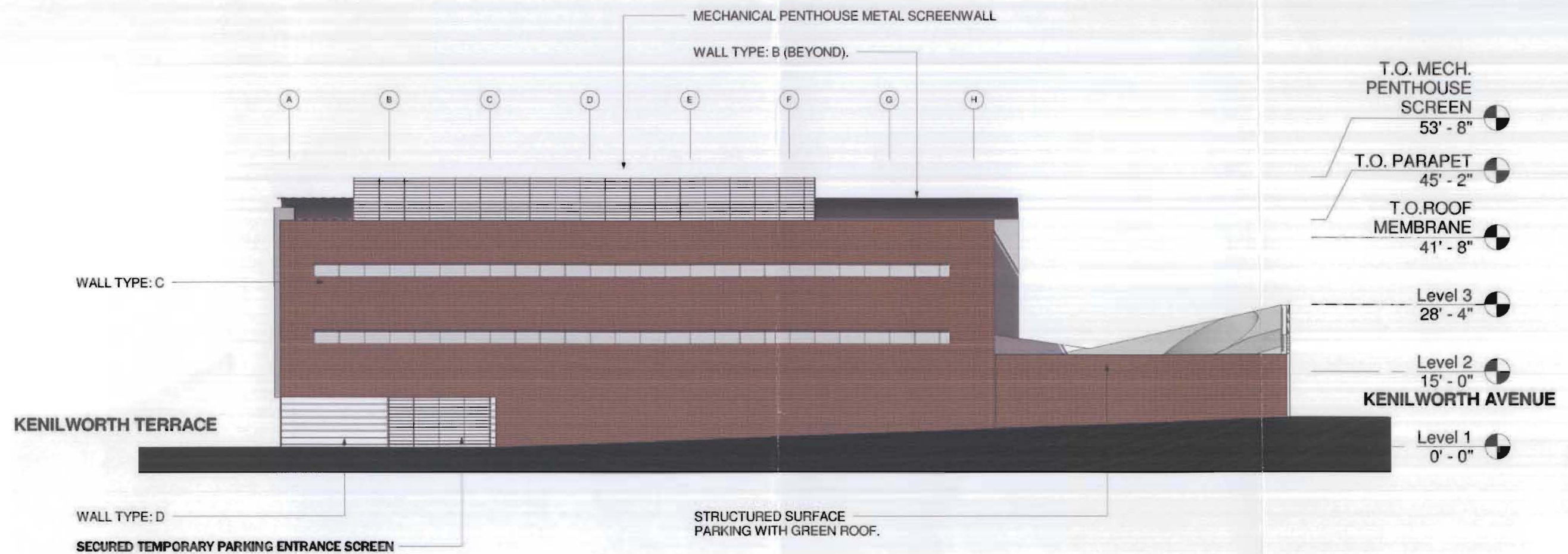
PARKSIDE DEVELOPMENT, WASHINGTON DC

NORTH AND SOUTH ELEVATIONS



ASK 048 10 MAY 2010

SEE EAST ELEVATION SHEET ASK: 047 10 MAY 2010 FOR WALL TYPE INFORMATION



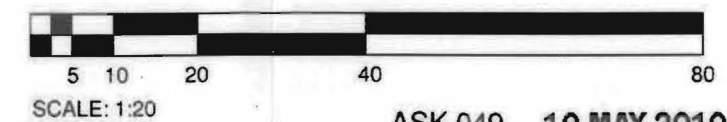
PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



WEST ELEVATION

(WEST ADJACENT PROPERTY LINE)



ASK 049 10 MAY 2010

LITTLE
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Cement Board Panel



Sunshading and Curtainwall



Cement Board Panel



Finished Alum. and Glass Entrance



Cement Board Panel



Brick Facade with Ribbon Windows

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



**Product Cutsheet: Cement Board Panels
& Masonry Systems**

ASK 050 10 MAY 2010

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING



American Hydrotech, Inc.,
303 E. Ohio Street, Chicago, IL 60611
Phone: 800-677-6125 Fax: 312-661-0731



Extensive Assembly

An extensive Garden Roof® uses a select range of hardy plants, making it attractive to look at while requiring little maintenance. Extensive green roofs are not intended for recreational use, but are usually chosen for their appearance or to help reduce the "urban heat island" effect and minimize stormwater run-off. Extensive roofs only require a shallow growing media depth, generally as little as 3" - 4", and therefore add little weight (typically 18-34 lb/sf wet weight) to the roof structure below.

Features:

- Are lightweight with only 3" - 4" of growing media
- Ideal for inaccessible roofs
- Can be used on flat or sloping roofs
- Reduce stormwater runoff
- Help to mitigate the urban heat island
- Require minimum maintenance

The water stored in the growing media and drainage/retention layer is sufficient to sustain the drought resistant plants between periods of rainfall. Irrigation systems are not normally required except in extreme climates.

Extensive green roofs can be applied to flat roofs and sloping roofs with a pitch of up to 12:12 or 45%, provided the appropriate measures are taken to cope with the shear forces and soil retention. Please contact Hydrotech for additional information regarding sloped applications.



Intensive and Lawn Assemblies

The landscape possibilities with intensive green roofs are virtually limitless. They are intended for recreational, sporting and leisure purposes and are often indistinguishable from natural gardens in appearance. Hydrotech's Lawn and Intensive Garden Roof® Assemblies follow the same design concept as an extensive Garden Roof. However, the drainage/retention layer is usually deeper and filled with expanded aggregate to provide greater water storage and to support a greater depth of growing media. The depth of the intensive growing media, which contains a greater amount of organic matter than an extensive blend, will generally dictate the type and size of plants that can be grown.

Intensive green roof designs usually consist of a mixture of hard and soft landscaping. It is therefore important that the selected drainage/retention layer can support any type of landscape - from roadways and paths, to soil and trees, so as to permit excess water to drain unobstructed underneath. The water retention capacity of the Hydrotech drainage/retention layers is used to assist with the irrigation of the plants - it is not a substitute for an irrigation system, which should always be installed within either the intensive or lawn Garden Roof Assembly.

Features:

- Require greater growing media depths 6"-36"
- Can be used for recreation
- Accommodate a wider variety of plants/shrubs/trees
- Must be irrigated
- Require regular maintenance



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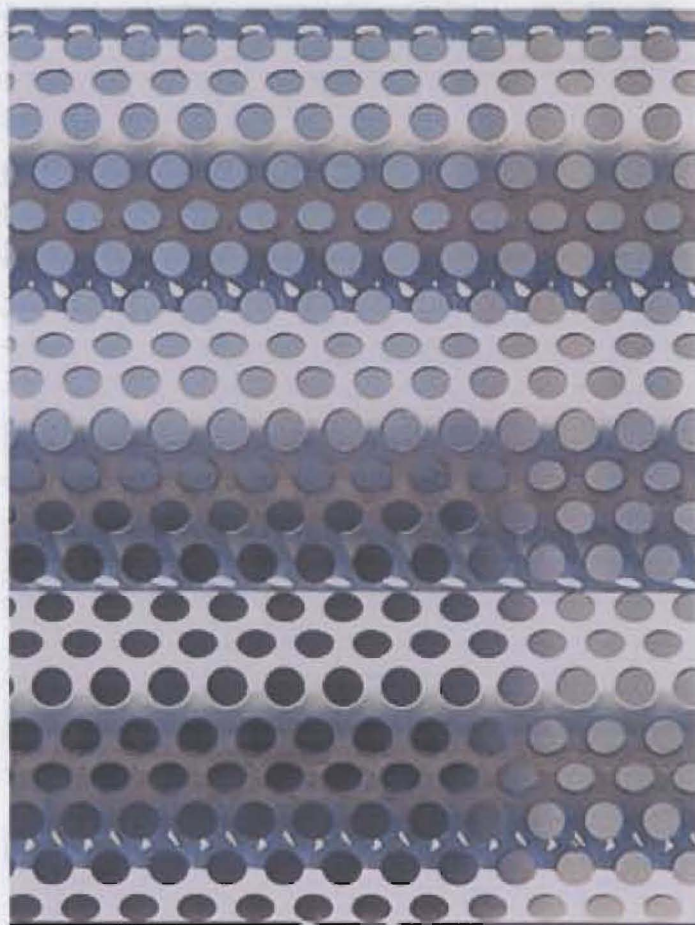
Product Cutsheet: Green Roof

ASK 051

10 MAY 2010

ECOSCREEN PERFORATED SCREENWALL

CENTRIA offers exterior perforated screenwall panels using Econolap 3/4", MR3-36, Style-Rib, and BR5-36 in 20 gage stainless steel and 0.040" painted aluminum. This unique fabrication provides a 10% to 40% open area for the effect of a translucent screen to control light, air movement and the appearance of operations behind the screen.



PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC



Take Credit For Using Profile Series

As a member of USGBC, CENTRIA is committed to helping architects and owners achieve LEED credit for using CENTRIA products. By using CENTRIA Profile Series including Profile Series® Steel Wall Panels, Roof Panels, Concept Series® Steel Wall Panels, IW Series Steel Wall Panels, and EcoScreen® Stainless Steel Panels we can help you achieve the following LEED-NC credits:



Materials & Resources

MR Credit 4.1	Recycled Content: 10%	1 Point
MR Credit 4.2	Recycled Content: 20%	1 Point
MR Credit 5.1	Regional Materials: 10%	1 Point
MR Credit 5.2	Regional Materials: 20%	1 Point

Indoor Environmental Quality

EQ Credit 4.1	Low-Emitting Materials: Adhesives and Sealants	1 Point
EQ Credit 4.2	Low-Emitting Materials: Paints and Coatings	1 Point

Innovation and Design Process

ID Credit 1.x	Innovation in Design: Cradle to Cradle Certification	1 Point
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Profile Series® Roof Panels Only

Sustainable Sites

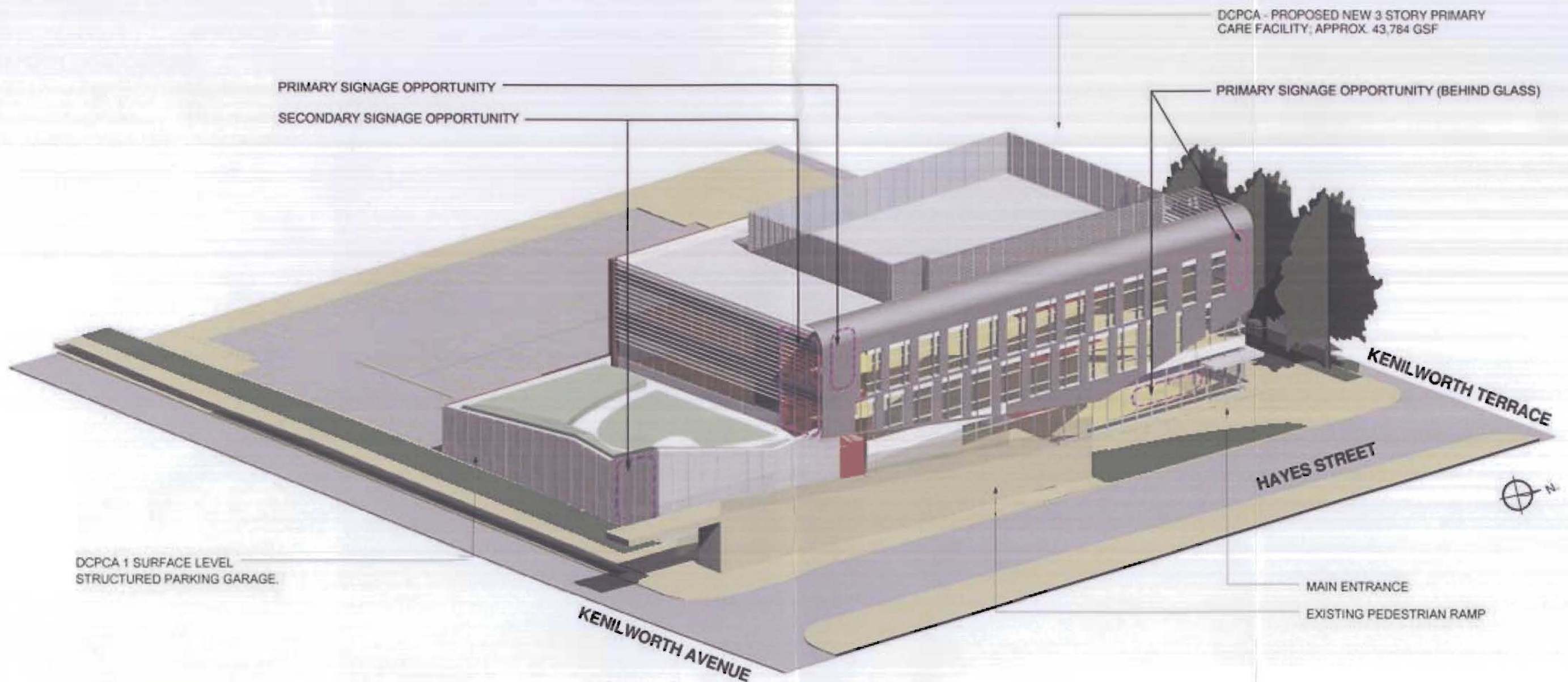
SS Credit 7.2	Heat Island Effect: Roof	1 Point
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Product Cutsheet: Metal Screenwall @ Mech. Penthouse

ASK 052

10 MAY 2010

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PARKSIDE DEVELOPMENT, WASHINGTON DC

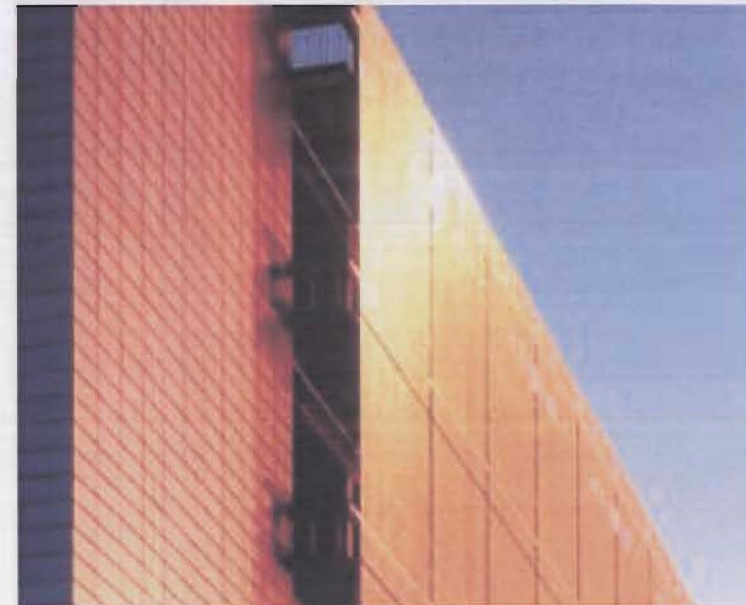
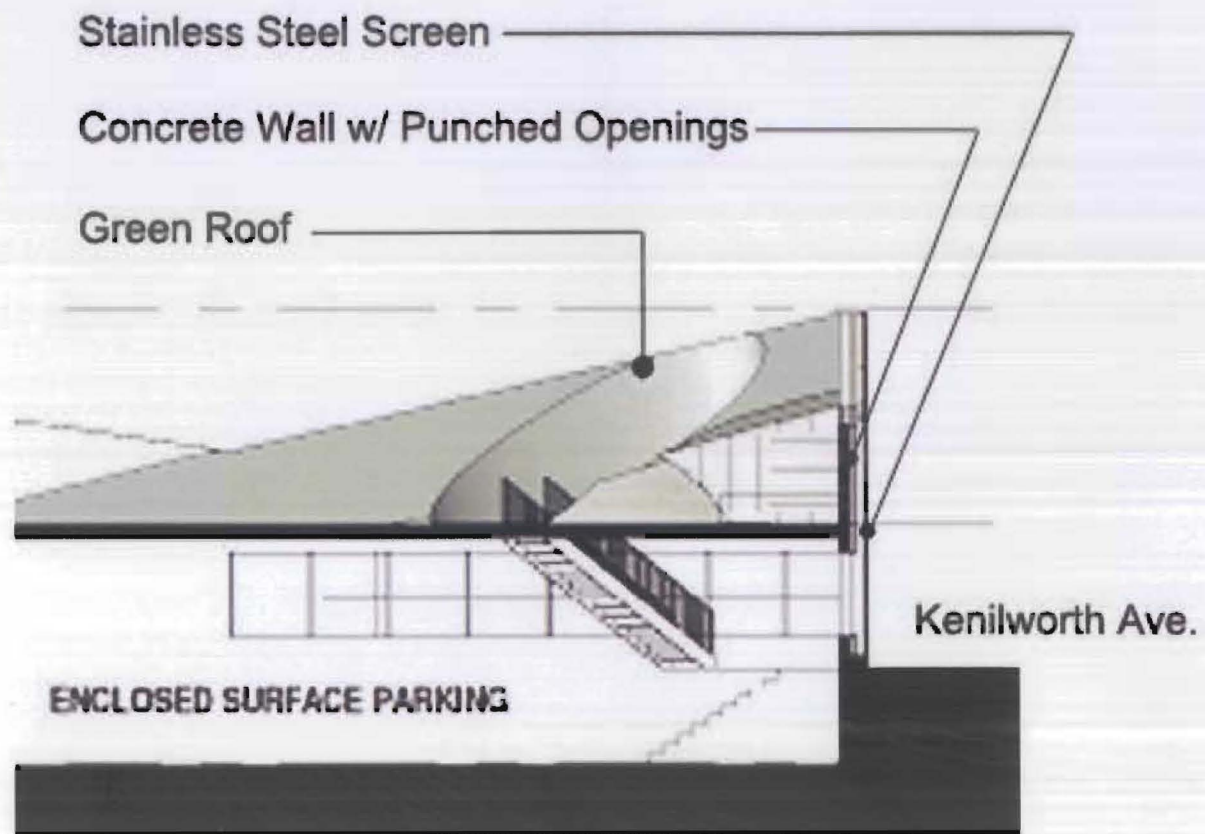


SOUTHEAST AXONOMETRIC VIEW
SIGNAGE OPPORTUNITY

ASK 053 10 MAY 2010

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

GKD MetalFabrics, GKD-USA Inc.



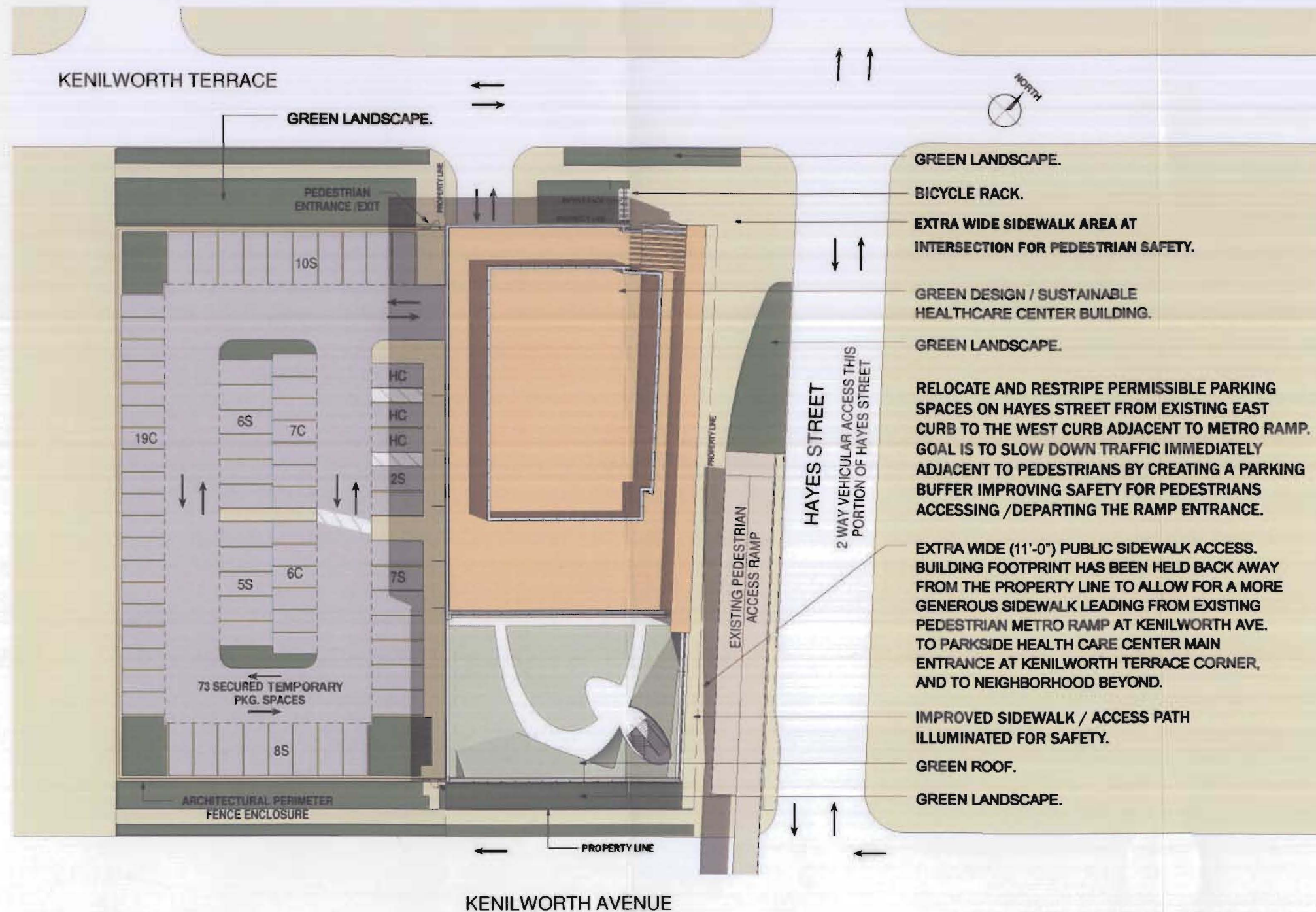
PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

Product Cutsheet: Stainless Steel Screen / Concrete Wall Section @ Garage

ASK 054

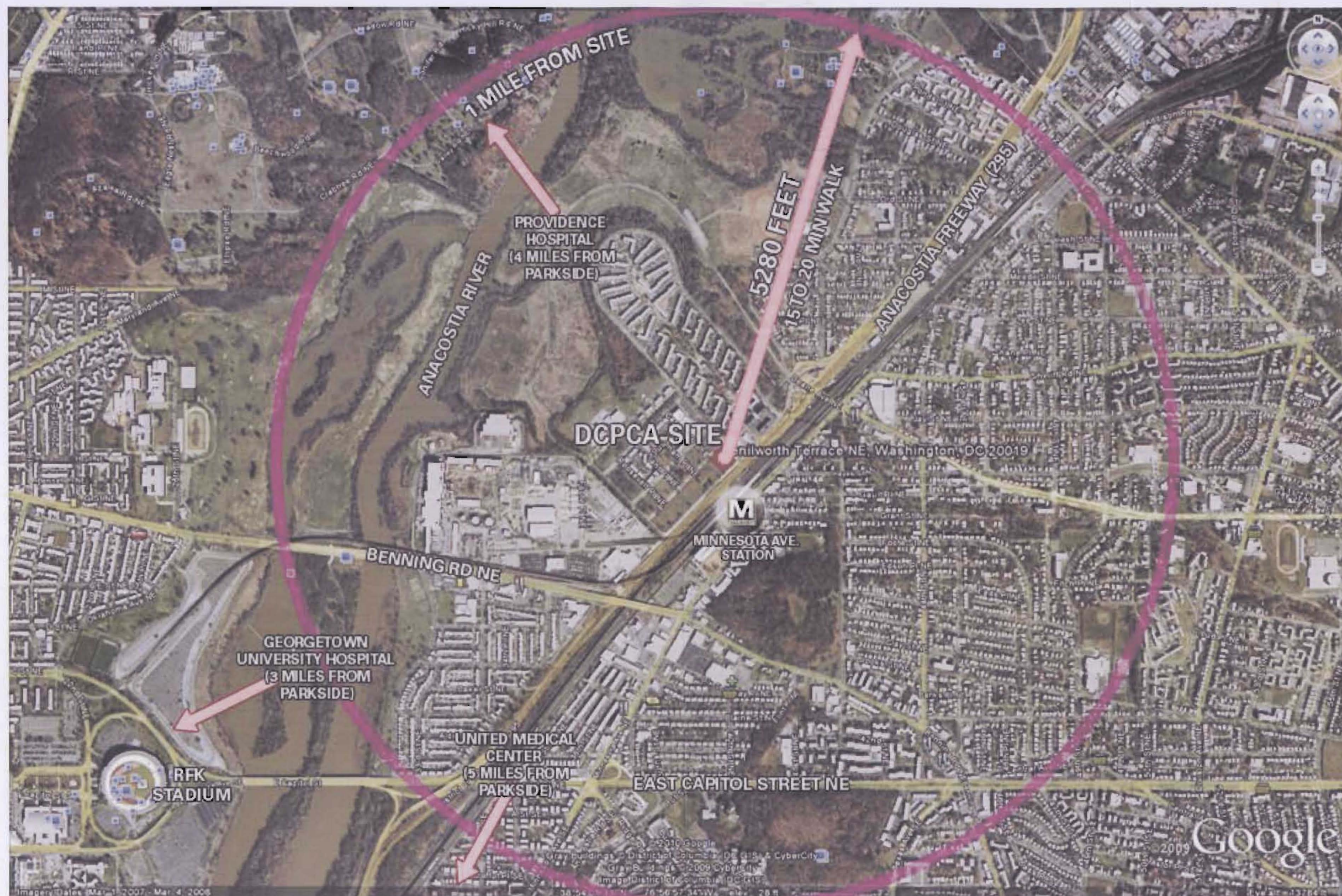
10 MAY 2010



PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

SITE AMENITIES DIAGRAM



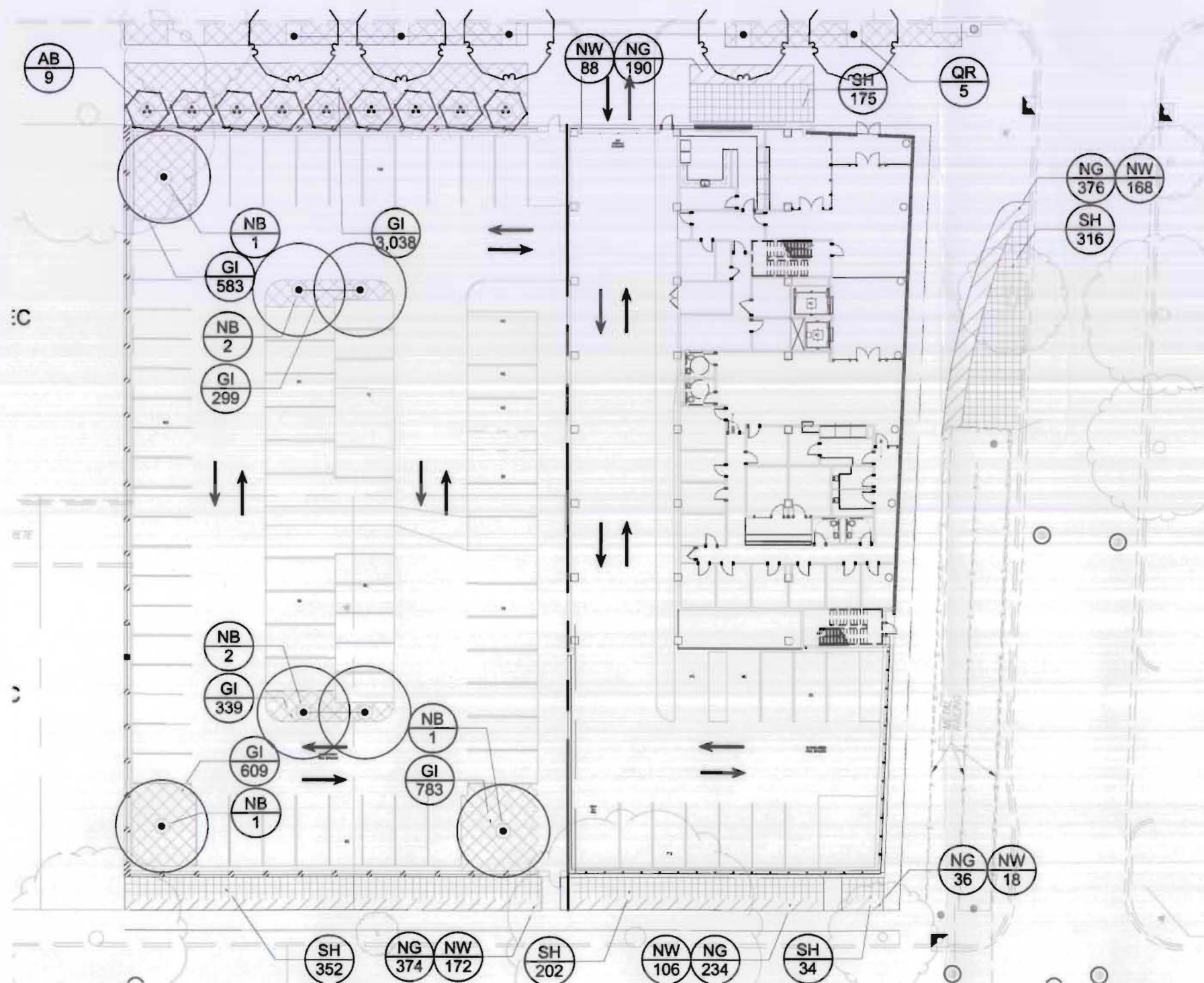
PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

ONE MILE BOUNDARY DIAGRAM

ASK 060

10 MAY 2010



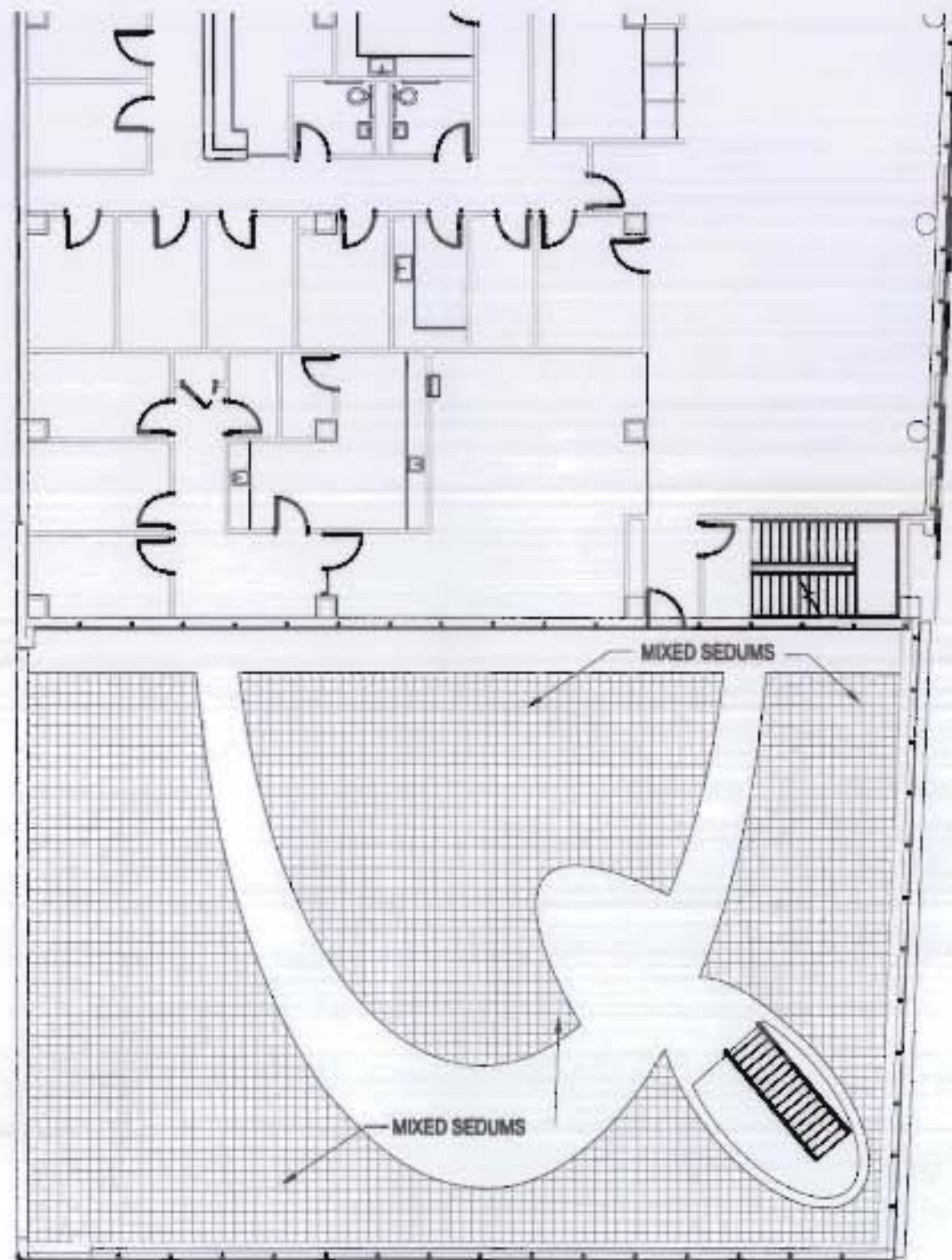
1/32" = 1'-0" N

PARKSIDE HEALTH CARE CENTER PARKSIDE DEVELOPMENT, WASHINGTON DC

Planting Plan Level 1

PLANT SCHEDULE GROUND FLOOR

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	R
	AB	9	Amelanchier grandiflora 'Autumn Brilliance'	Juneberry	B & B	Multi Stem	10'-12' HT	
	NB	7	Nyssa sylvatica 'Black Tupelo'	Sour Gum	B & B	4" Cal	14'-16' HT	
	QR	5	Quercus rubra 'Borealis'	Red Oak	B & B	4" Cal	14'-16' HT	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT			R
	GI	7,034	Geranium macrorrhizum Ingwersen's Variety	Bigroot Geranium	quart @ 10" oc			
	NG	1,210	Narcissus x 'Gigantic Star'	Gigantic Star Daffodil	bulb @ 12" oc			
	NW	552	Nepeta x faassenii 'Walkers Low'	Walkers Low Catmint	quart @ 18" oc			
	SH	1,079	Sporobolus heterolepis	Prairie Dropseed	quart @ 18" oc			



NOTE: ALL PAVEMENT TO BE
PRECAST UNIT PAVERS

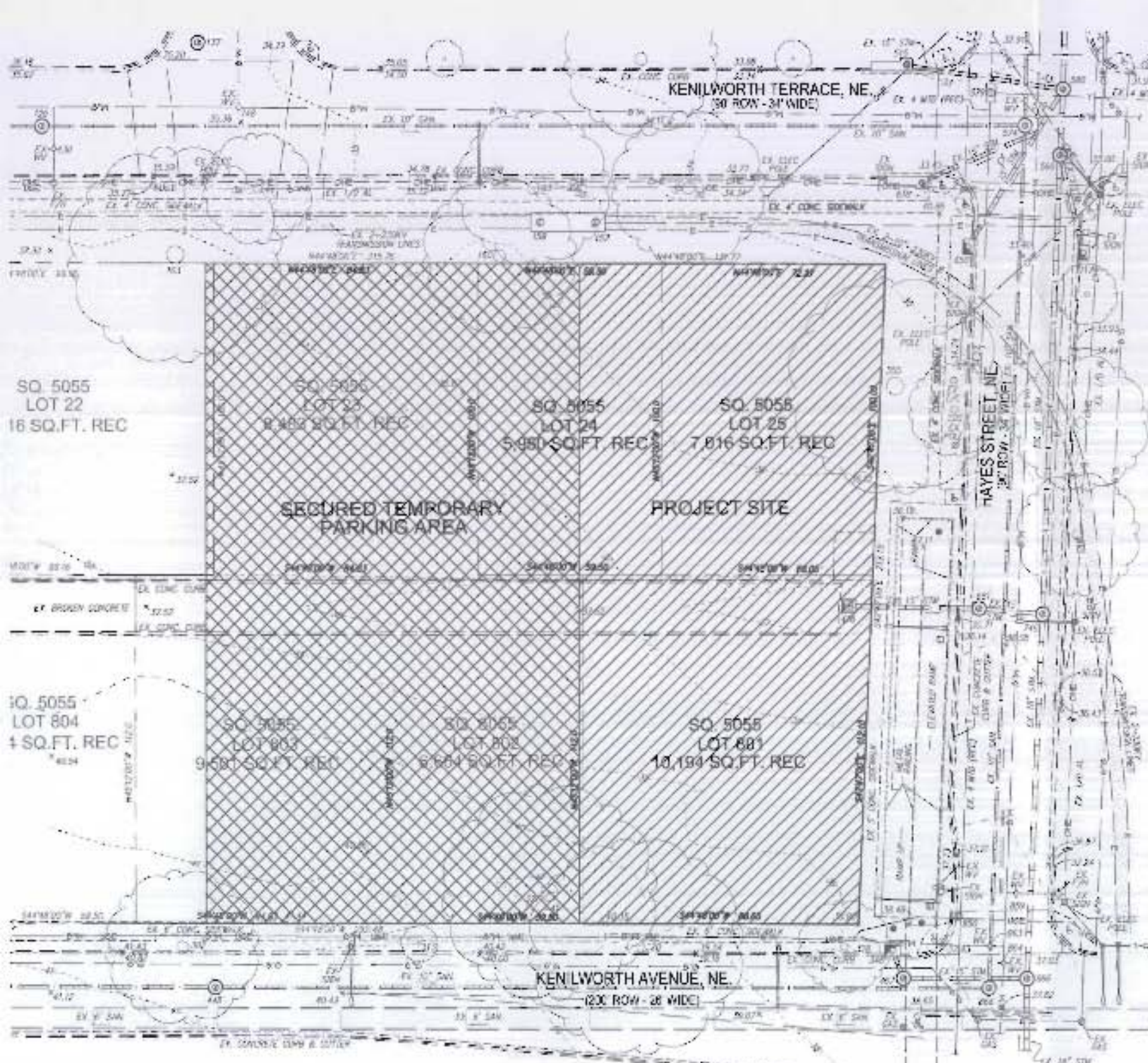
1/16" = 1'-0" N A

PARKSIDE HEALTH CARE CENTER

PARKSIDE DEVELOPMENT, WASHINGTON DC

Planting Plan Level 2

L1.02 10 MAY 2010



VICINITY MAP
SCALE: 1" = 600'



1-800-257-7777
missutility.net

NOTIFY "MISS UTILITY" AT 1-800-257-7777
48 HOURS IN ADVANCE BEFORE
COMMENCING THE WORK.

GENERAL NOTES:

- 1) THE DATA ON THIS SURVEY IS THE RESULT OF A FIELD SURVEY BY THIS FIRM, LAST DATE OF FIELD SURVEY JUNE 29, 2009.
- 2) CONTOUR ELEVATIONS SHOWN ARE REFERENCED TO DCDPM DATUM (BM 11-26), MERIDIAN REFERENCED TO DCSO NORTH, BY HOLDING KENILWORTH AVE AS 5° 44' 45" W.
- 3) VISIBLE ABOVE GROUND UTILITIES HAVE BEEN SHOWN. SUBSURFACE UTILITIES, WHERE SHOWN, FOLLOW ASCE 38-02 QUALITY LEVELS A-D. LINES ARE LABELED AS FOLLOWS:
 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.
 4) PROPERTY IS IDENTIFIED AS FLOOD ZONE: A "AREAS BETWEEN LIMITS OF THE 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD." & C- "AREAS OF MINIMAL FLOODING" AS IDENTIFIED ON FIRM COMMUNITY PANEL 113881 03.58 & EFFECTIVE DATE NOVEMBER 15, 1985.

UTILITY REFERENCES:

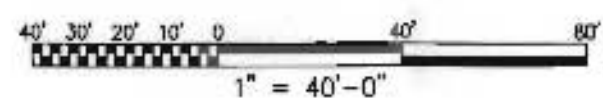
UTILITY	SOURCE	DATE
SEWER:	WASA PANEL: LM 3-4 NE / NO 3-4 NE	2/12/99 - 9/10/94
WATER:	WASA PANEL: LM 3-4 NE / NO 3-4 NE	5/1/43 - 9/27/55
ELECTRIC:	814F388	10/1/87
GAS:	WASHINGTON GAS WG-17/95	3/16/89
COMMUNICATION:	VERIZON: NE 139	7/16/97

CIVIL DRAWING INDEX:

- C1.00 EXISTING CONDITIONS PLAN
- C1.01 SEDIMENTATION AND EROSION CONTROL PLAN
- C1.02 SITE PLAN
- C1.03 GRADING PLAN
- C1.04 UTILITY PLAN
- C1.05 CIRCULATION PLAN
- C1.06 SEDIMENTATION AND EROSION CONTROL DETAILS
- C1.07 STORM FILTER PLAN AND DETAILS
- C1.08 STORM WATER MANAGEMENT PLAN
- C1.09 DEMOLITION PLAN

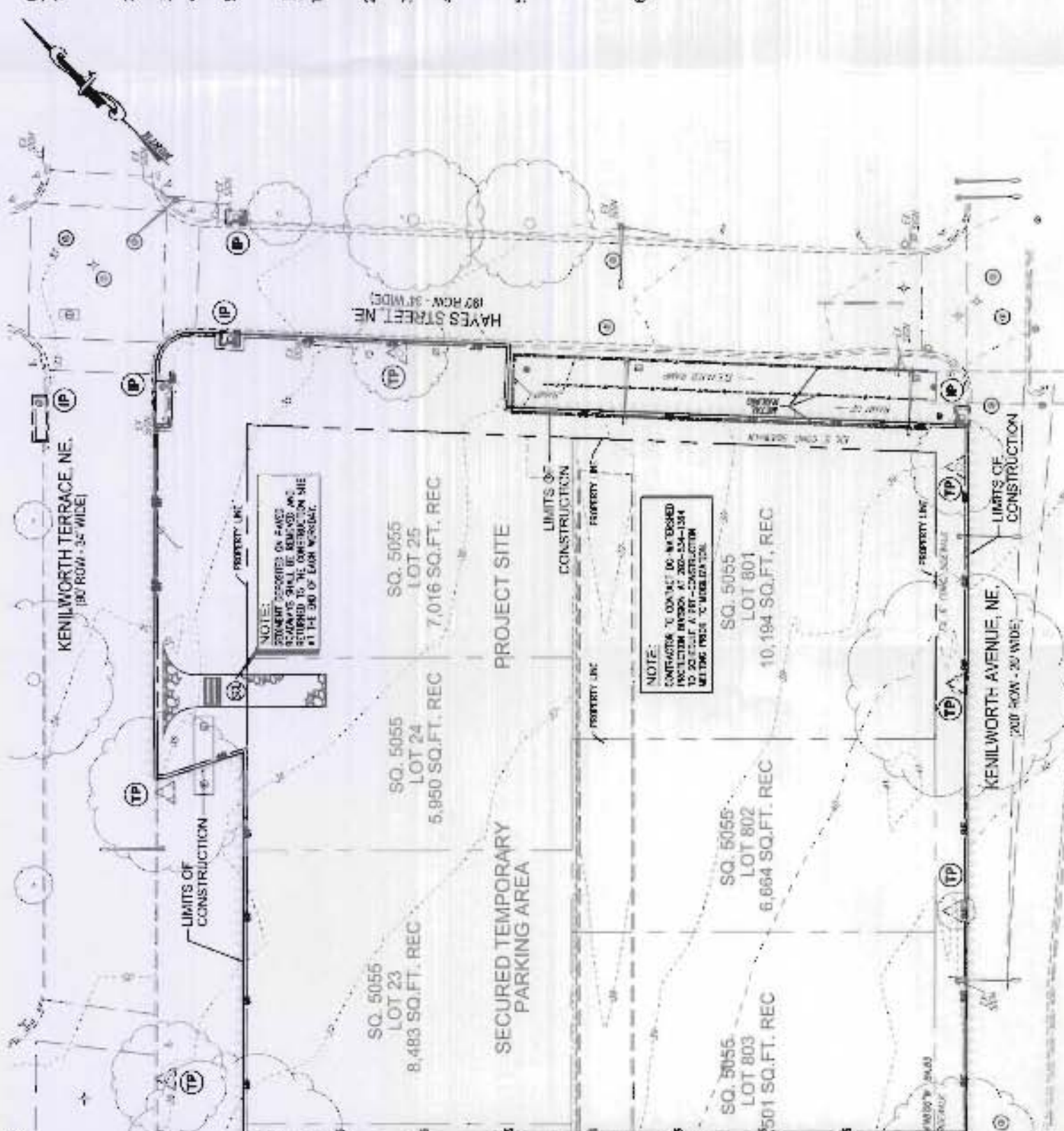
PARKSIDE HEALTH CARE CENTER
PARKSIDE DEVELOPMENT, WASHINGTON DC

**EXISTING CONDITIONS
PLAN**



C1.00 10 MAY 2010





CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED CONSTRUCTION ENTRANCE, WASH RACK, MUD PROTECTION, SILT FENCE, STRAW BALE DUNE, AS INDICATED ON THIS SHEET. SEE SHEET C1.08 FOR SEDIMENTATION AND EROSION CONTROL DETAILS.
2. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN.
4. INITIAL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
5. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SALUTATION, SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FILL FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ADDRESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED AT A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
 - B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
 - C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (13.8 x PA) MINIMUM.KEEP AREAS DAMP WITHOUT CREATING NAUSEATING CONDITIONS SUCH AS FOGGING.
6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
 - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NAUSEATING CONDITIONS SUCH AS FOGGING.
 - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

SEDIMENTATION AND EROSION CONTROL NOTE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES, SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA. SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
2. PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
3. PROVIDE CONSTRUCTION FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
4. CONTRACTOR TO PROVIDE ON SITE APPROVED STAFFED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF THE ENVIRONMENT, WATERSHED PROTECTION DIVISION.
5. THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ENVIRONMENT BY PHONE (202-536-2248) AT LEAST 24 HOURS PRIOR TO THE START OF GRADING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.

SEDIMENTATION AND EROSION CONTROL NARRATIVE:

THE SITE IS CURRENTLY LOCATED ON SQUARE 5055, LOT 23, 24, 25 AND 801, 802, 803 BOUNDED BY KENILWORTH TERRACE, NE, HAYES STREET, NE, AND KENILWORTH AVENUE, NE, WITH AN AREA OF APPROXIMATELY 20,028 SQ. FT. OR 0.46 ACRES. NEW DEVELOPMENT IS THE CONSTRUCTION OF A 30 PRIMARY CARE BUILDING WITH A COVER AND SURFACE PARKING, SITE DEVELOPMENT INCLUDING A DOMESTIC AND FIRE SERVICES, SANITARY AND STORM SEWERS, GAS SERVICE, TELEPHONE AND ELECTRICAL SERVICE, A STORM FLOOD, GREEN SPACE AND TEMPORARY PARKING INFRASTRUCTURE TRENCH AS A BEST MANAGEMENT PRACTICE. NEW CONCRETE SIDEWALK AND DRIVEWAY ENTRANCE, TRAILING KENILWORTH TERRACE AND HAYES STREET NE.

SITE AREA:

20,028 SQ. FT. OR 0.46 AC. (LOT 24, 25 AND 801)
18,059 SQ. FT. OR 0.42 AC. (BUILDING FOOTPRINT)
25,436 SQ. FT. OR 0.58 AC. (PARKING AREAS)

LIMIT OF DISTURBANCE:

55,200 SQ. FT. OR 1.27 AC.

TOTAL VOLUME OF CUT/EXCAVATION:

TOTAL AREA OF EXCAVATION: 43,188 SQ. FT. OR 0.98 AC.
VOLUME OF CUT = 43,188 SQ. FT. (AREA) x 2.0' (DEPTH) = 86,376 CU. YD.

TOTAL VOLUME EXCAVATION= 3,200 CY +/-

VOLUME OF FILL: 0.00 CY

LEGEND:

- TEMP. CONSTRUCTION ENTRANCE W/WASHRACK
- SILT FENCE
- MUD PROTECTION
- TREE PROTECTION
- LIMIT OF DISTURBANCE

THIS SHEET IS FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY!!!

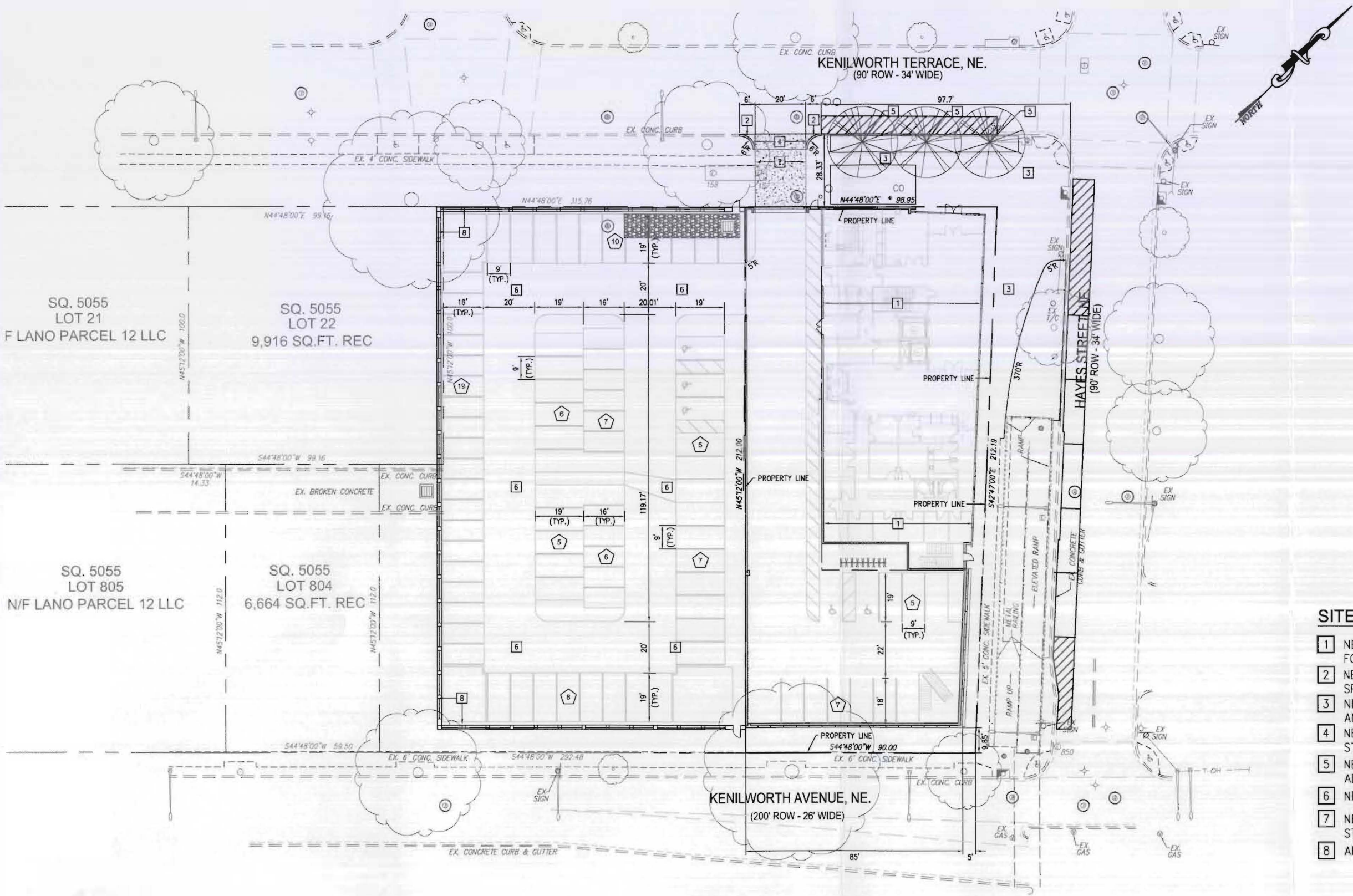
PARKSIDE HEALTH CARE CENTER
PARKSIDE DEVELOPMENT, WASHINGTON DC

SEDIMENTATION AND EROSION CONTROL PLAN



C1.01 10 MAY 2010

LITTLE
DIVISION OF ARCHITECTURAL CONSULTING



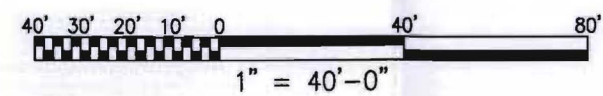
SITE KEYNOTES:

- 1 NEW BUILDING. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 2 NEW CONCRETE CURB PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 3 NEW CONCRETE SIDEWALK PER DDOT STANDARDS AND SPECIFICATIONS.
- 4 NEW CONCRETE DRIVEWAY ENTRANCE PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 5 NEW STREET TREE PER DC/DDOT URBAN FORESTRY ADMINISTRATION STANDARDS AND SPECIFICATIONS.
- 6 NEW ASPHALT PAVEMENT SURFACE PARKING.
- 7 NEW CONCRETE PAVEMENT APRON PER DDOT STANDARDS AND SPECIFICATIONS.
- 8 ARCHITECTURAL FENCE ENCLOSURE.

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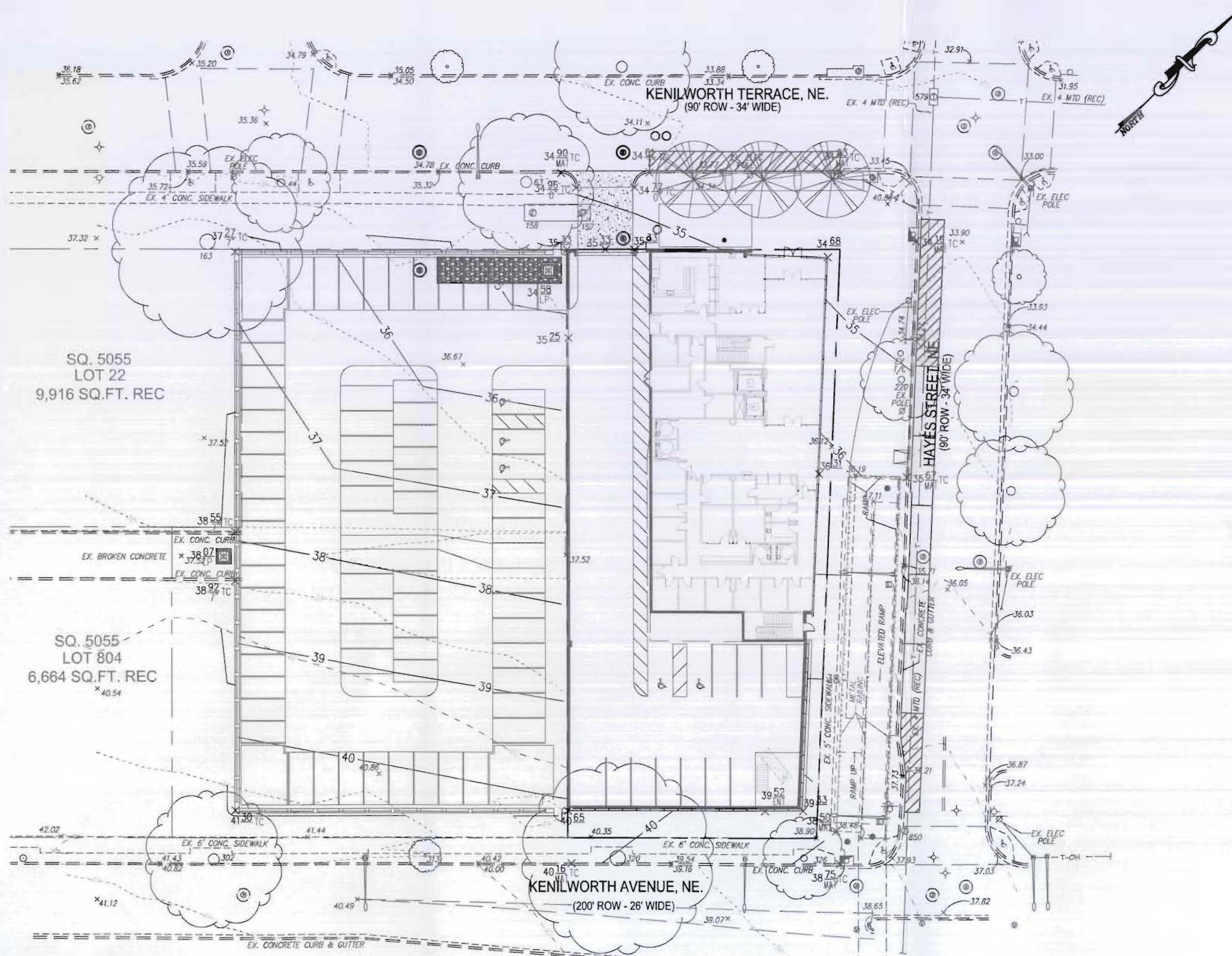
SITE PLAN

C1.02 10 MAY 2010



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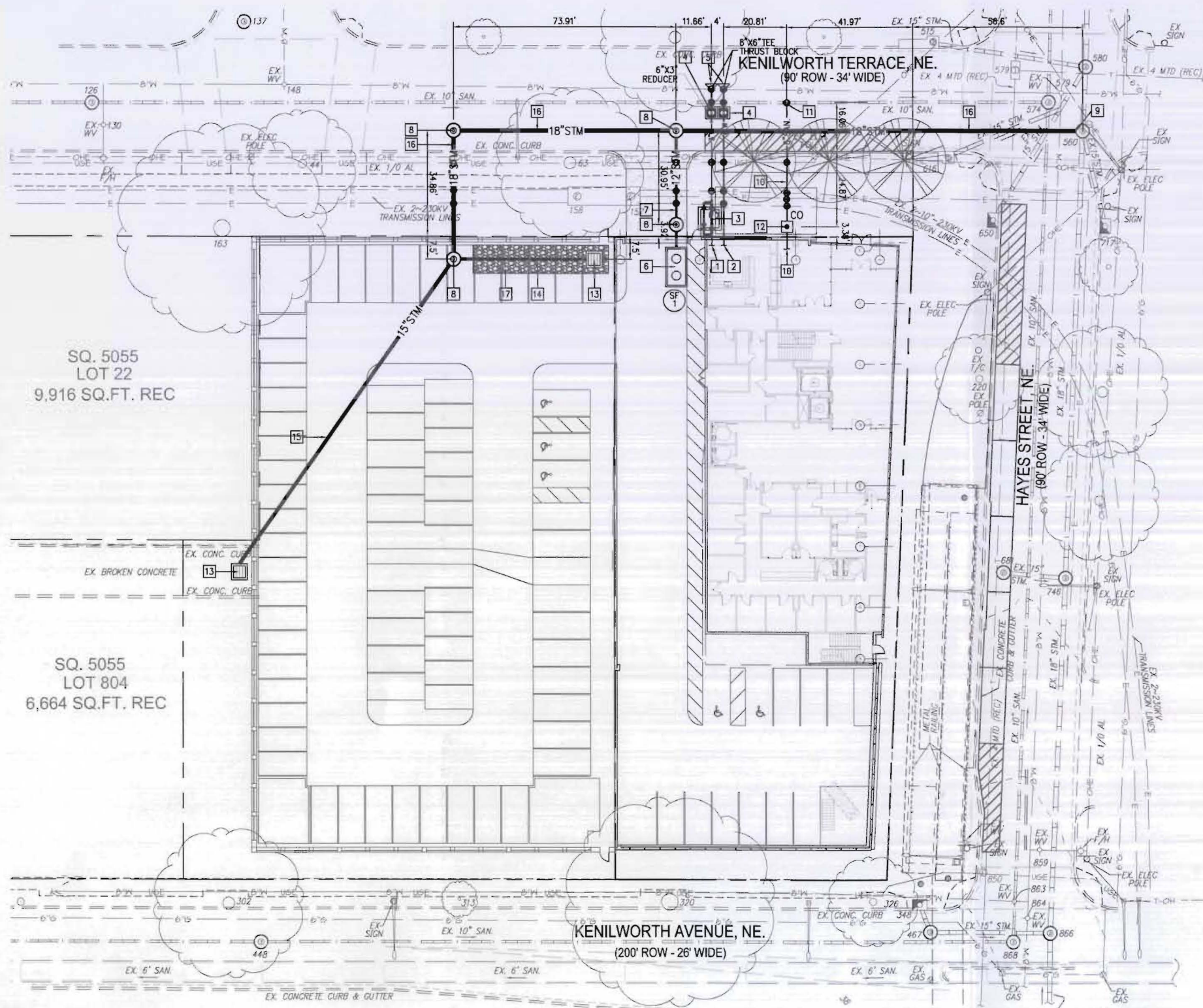


EXISTING	LEGEND	BY OTHERS	PROPOSED	
303.25	SPOT ELEVATIONS	*03.25	03.25	HUNDREDS PLACE TRUNCATED
AS-BUILT	SPOT ELEVATIONS (WITH NOTATION)	BY OTHERS: DESIGN INFORMATION FROM PLANS OTHER THAN THIS CONTRACT.	03.25 TC	NOTATION & REVEAL
[03.25]			UP DATED (DUE TO AS-BUILT)	BC: BOTTOM OF CURB CRN: CROWN GB: GRADE BREAK INV: INVERT MAT: MATCH (EXISTING CONDITION) LP: LOW POINT TC: TOP OF CURB
			<03.25>	

PARKSIDE HEALTH CARE CENTER[®] PARKSIDE DEVELOPMENT, WASHINGTON DC

GRADING PLAN

C1.03 10 MAY 2010



UTILITY KEYNOTES:

- 1 NEW 3" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER VALVE TO MEET ASSE-1015.
- 2 NEW 6" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER VALVE TO MEET ASSE-1048.
- 3 NEW 72"x72"x72" I.D. METER VAULT PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING DG-23.01.
- 4 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING W-20.01.
- 5 NEW CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING W-40.01.
- 6 NEW STORM FILTER STRUCTURE. REFER TO SHEET C1.07 FOR DETAILS.
- 7 NEW 10" PVC SCH.40 STORM SEWER.
- 8 NEW MANHOLE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. S/20.01.
- 9 NEW CONNECTION TO EXISTING MANHOLE PER DC/WASA STANDARDS AND SPECIFICATIONS.
- 10 NEW 6" SDR 35 SANITARY SEWER PER DC/WASA STANDARDS AND SPECIFICATIONS.
- 11 NEW WYE BRANCH CONNECTION PER DC/WASA STANDARDS AND SPECIFICATIONS REFER TO DC/WASA STANDARD DRAWING S-80.01.
- 12 NEW CLEANOUT. REFER TO DC/WASA STANDARD DRAWINGS S/80.02.
- 13 NEW AREA DRAIN PER DCWASA STANDARDS AND SPECIFICATIONS.
- 14 NEW 12" PVC SCH.40 STORM SEWER.
- 15 NEW 15" PVC SCH.40 STORM SEWER.
- 16 NEW 18" RCP RS STORM SEWER.
- 17 TEMPORARY INFILTRATION TRENCH BELOW GRADE.

NOTE:

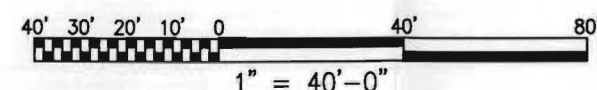
UTILITY AND STORM WATER MANAGEMENT DESIGN IS SCHEMATIC IN NATURE. FINAL UTILITY AND STORM WATER MANAGEMENT PROVISIONS TO BE DETERMINED DURING FINAL DESIGN PROCESS.

PLUMBING UTILITY INFORMATION:

1. SANITARY: (APPROXIMATE)
PROJECTED AVERAGE FLOW: 275 GPM
PROJECTED AVERAGE FLOW: 425 GPM
2. DOMESTIC WATER MAIN: (APPROXIMATE)
PROJECTED PEAK FLOW: 400 GPM

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UTILITY PLAN

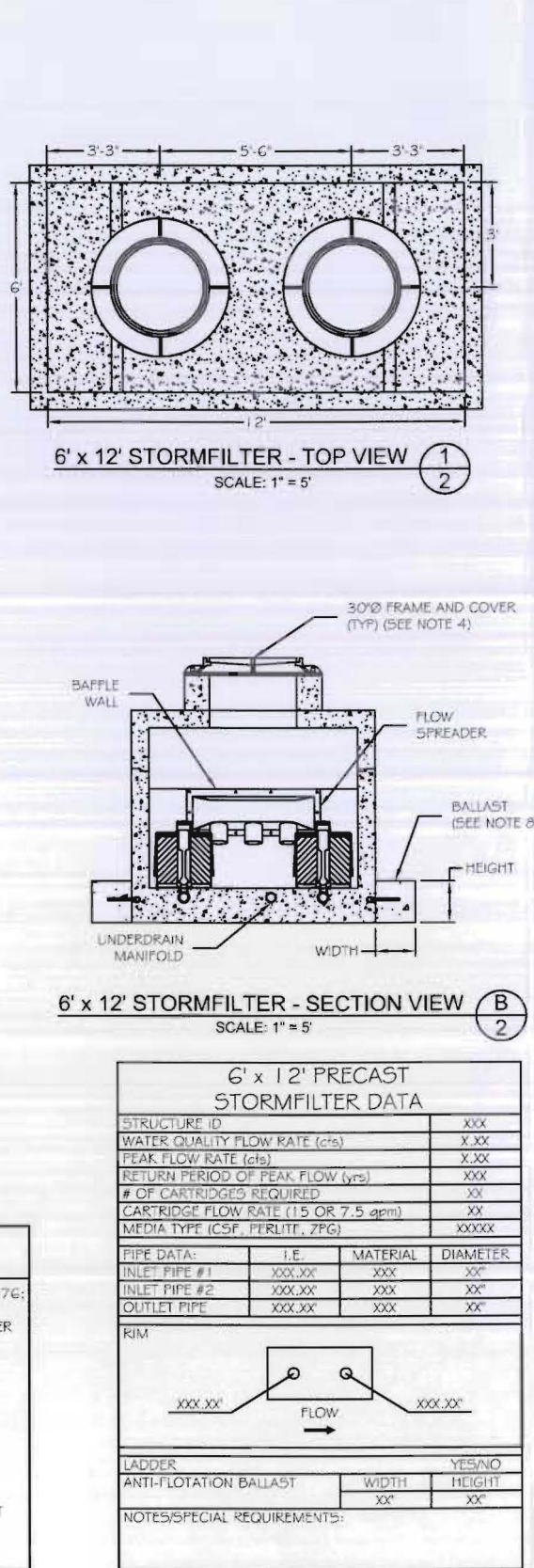
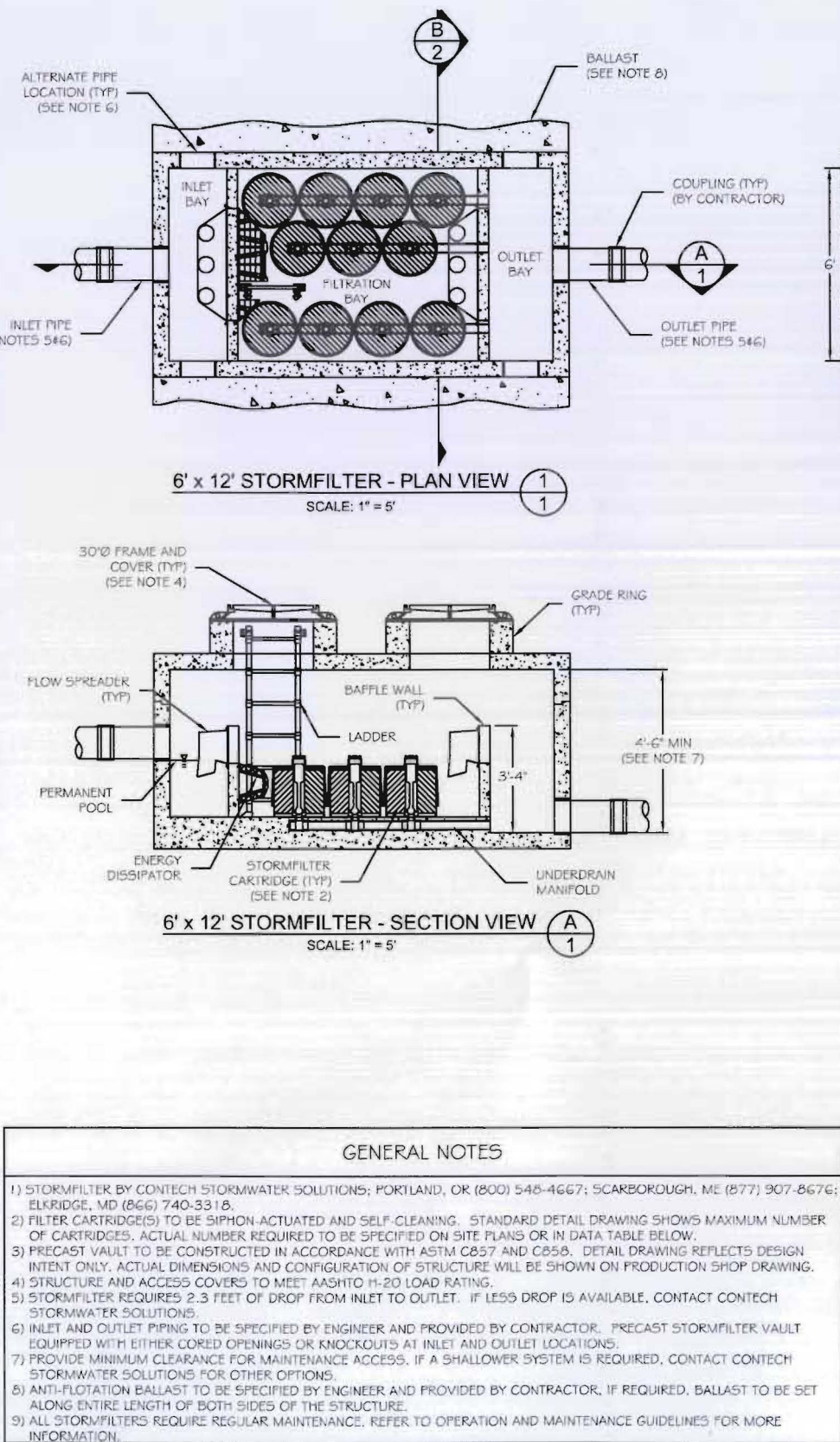


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A. TYPES OF MAINTENANCE:

PRESENTLY, PROCEDURES HAVE BEEN DEVELOPED FOR TWO LEVELS OF MAINTENANCE:

- INSPECTION/MAINTENANCE
- MAJOR MAINTENANCE

INSPECTION/MAINTENANCE ACTIVITIES ARE COMBINED SINCE MINOR MAINTENANCE DOES NOT REQUIRE SPECIAL EQUIPMENT AND TYPICALLY LITTLE OR NO MATERIALS ARE IN NEED OF DISPOSAL.

INSPECTION/MAINTENANCE TYPICALLY INCLUDES:

- INSPECTION OF THE VAULT (TYP)
- REMOVAL OF VEGETATION AND TRASH AND DEBRIS.

MAJOR MAINTENANCE TYPICALLY INCLUDES:

- CARTRIDGE REPLACEMENT
- SEDIMENT REMOVAL

IMPORTANT: APPLICABLE SAFETY (OSHA) AND DISPOSAL REGULATION SHOULD BE FOLLOWED DURING ALL MAINTENANCE ACTIVITIES. TWO SCHEDULED INSPECTION/MAINTENANCE ACTIVITIES SHOULD TAKE PLACE DURING THE YEAR.

B. MAINTENANCE ACTIVITY TIMING:

TWO SCHEDULED INSPECTIONS/MAINTENANCE ACTIVITIES SHOULD TAKE PLACE DURING THE YEAR.

FIRST, AN INSPECTION/MAINTENANCE ACTIVITY SHOULD BE DONE DURING THE MINOR MAINTENANCE ACTIVITY (ROUTINE INSPECTION, DEBRIS REMOVAL). THE NEED FOR MAJOR MAINTENANCE SHOULD BE DETERMINED AND, IF DISPOSAL DURING MAJOR MAINTENANCE WILL BE REQUIRED, SAMPLES OF THE SEDIMENTS AND MEDIA SHOULD BE OBTAINED.

SECOND, IF REQUIRED, A MAJOR MAINTENANCE ACTIVITY (REPLACEMENT OF THE FILTER CARTRIDGES AND ASSOCIATED SEDIMENT REMOVAL) SHOULD BE PERFORMED.

IN ADDITION TO THESE TWO SCHEDULED ACTIVITIES, IT IS IMPORTANT TO CHECK THE CONDITION OF THE STORMFILTER UNIT AFTER MAJOR STORMS FOR DAMAGE CAUSED BY HIGH FLOWS AND FOR HIGH SEDIMENT ACCUMULATION THAT MAY BE CAUSED BY LOCALIZED EROSION IN THE DRAINAGE AREA. IT MAY BE NECESSARY TO ADJUST THE MAINTENANCE ACTIVITY SCHEDULE DEPENDING ON THE ACTUAL OPERATING CONDITIONS ENCOUNTERED BY THE SYSTEM.

IN GENERAL, MINOR MAINTENANCE ACTIVITIES WILL OCCUR LAST IN THE RAINY SEASON, AND MAJOR MAINTENANCE WILL OCCUR IN LATE SUMMER TO EARLY FALL WHEN FLOWS INTO THE SYSTEM ARE NOT LIKELY TO BE PRESENT.

C. MAINTENANCE ACTIVITY FREQUENCY:

THE PRIMARY FACTOR CONTROLLING TIMING OF MAINTENANCE FOR THE STORMFILTER IS SEDIMENTATION.

A PROPERLY FUNCTIONING SYSTEM WILL REMOVE SOLIDS FROM WATER BY TRAPPING PARTICULATES IN THE PORESPACES OF THE FILTER MEDIA. THE FLOW THROUGH THE SYSTEM WILL NATURALLY DECREASE AS MORE AND MORE SOLIDS ARE TRAPPED. EVENTUALLY THE FLOW THROUGH THE SYSTEM WILL BE LOW ENOUGH TO REQUIRE REPLACEMENT OF THE CARTRIDGES. IT MAY BE POSSIBLE TO EXTEND THE USABLE LIFE OF THE CARTRIDGES BY REMOVING SEDIMENT FROM UPSTREAM TRAPPING DEVICES ON AN AS-NEEDED BASIS IN ORDER TO PREVENT MATERIAL FROM BEING RE-SUSPENDED AND DISCHARGED TO THE SYSTEM.

SITE CONDITIONS GREATLY INFLUENCE MAINTENANCE REQUIREMENTS. STORMFILTERS UNITS LOCATED IN AREAS WITH EROSION OR ACTIVE CONSTRUCTION SHOULD BE INSPECTED AND MAINTAINED MORE OFTEN THAN THOSE IN FULLY STABILIZED AREAS.

THE MAINTENANCE FREQUENCY MAY BE ADJUSTED AS ADDITIONAL MONITORING INFORMATION BECOMES AVAILABLE DURING THE INSPECTION PROGRAM. AREAS THAT DEVELOP KNOWN PROBLEMS SHOULD BE INSPECTED MORE FREQUENTLY THAN AREAS THAT DEMONSTRATE NO PROBLEMS, PARTICULARLY AFTER LARGE STORMS.

ULTIMATELY, INSPECTION AND MAINTENANCE ACTIVITIES SHOULD BE SCHEDULED BASED ON THE HISTORIC RECORDS AND CHARACTERISTICS OF AN INDIVIDUAL STORMFILTER SYSTEM. IT IS RECOMMENDED THAT THE MAINTENANCE AGENCY DEVELOP A DATABASE TO PROPERLY MANAGE STORM FILTER MAINTENANCE PROGRAMS.

PRIOR TO THE DEVELOPMENT OF THE MAINTENANCE DATABASE, THE FOLLOWING MAINTENANCE FREQUENCIES SHOULD BE FOLLOWED:

INSPECTION/MAINTENANCE

- ONE TIME PER YEAR
- AFTER MAJOR STORMS

MAJOR MAINTENANCE

- ONE TIME PER YEAR
- IN THE EVENT OF A CHEMICAL SPILL

FREQUENCIES SHOULD BE UPDATED AS REQUIRED.

THE RECOMMENDED INITIAL FOR INSPECTION/MAINTENANCE IS TWO TIMES PER YEAR FOR PRECUTS UNITS. STORM FILTER UNITS SHOULD BE INSPECTED AFTER ALL MAJOR STORMS.

SEDIMENT REMOVAL AND CARTRIDGE REPLACEMENT ON AN ANNUAL BASIS IS RECOMMENDED UNTIL FURTHER KNOWLEDGE IS GAINED ABOUT A PARTICULAR SYSTEM.

ONCE AN UNDERSTANDING OF SITE CHARACTERISTICS HAS BEEN ESTABLISHED, MAINTENANCE MAY NOT BE REQUIRED FOR ONE TO TWO YEARS, BUT INSPECTION IS WARRANTED.

D. MAINTENANCE METHODS:

1. INSPECTION/MAINTENANCE

THE PRIMARY GOAL OF A MAINTENANCE INSPECTION IS TO ASSESS THE CONDITION OF THE CARTRIDGES RELATIVE TO THE LEVEL OF SEDIMENT LOADING. IT MAY BE DESIRABLE TO CONDUCT THIS INSPECTION DURING A STORM TO OBSERVE THE RELATIVE FLOW THROUGH THE FILTER CARTRIDGES. IF THE SUBMERGED CARTRIDGES ARE SILVERLY PLUGGED, LARGE AMOUNTS OF SEDIMENTS WILL BE PRESENT AND VERY LITTLE FLOW WILL BE DISCHARGED FROM THE DRAINAGE PIPES. IF THIS IS THE CASE, IT IS LIKELY THAT THE CARTRIDGES NEED TO BE REPLACED.

WARNINGS: IN THE CASE OF A SPILL, THE WORKER SHOULD AVOID MAINTENANCE ACTIVITIES UNTIL THE PROPER GUIDANCE IS OBTAINED. NOTIFY THE LOCAL HAZARD CONTROL AGENCY AND CONTECH STORMWATER SOLUTIONS IMMEDIATELY.

TO CONDUCT AN INSPECTION AND/OR MINOR MAINTENANCE:

IMPORTANT: MAINTENANCE MUST BE PERFORMED BY A UTILITY WORKER FAMILIAR WITH STORMFILTER UNITS.

1. IF APPLICABLE, SET UP SAFETY EQUIPMENT TO PROTECT PEDESTRIANS FROM FALL HAZARDS DUE TO OPEN VAULT DOORS OR WHEN IS BEING DONE NEAR WALKWAYS OR ROADWAYS.

2. VISUALLY INSPECT THE EXTERNAL CONDITION OF THE UNIT AND TAKE NOTES CONCERNING DEFECTS/PROBLEMS.

3. OPEN THE DOORS TO THE VAULT AND ALLOW THE SYSTEM TO AIR OUT FOR 5-10 MINUTES.

4. WITHOUT ENTERING THE VAULT, INSPECT THE INSIDE OF THE UNIT, INCLUDING COMPONENTS OF THE INTERNAL COMPONENTS.

5. TAKE NOTES ABOUT THE EXTERNAL AND INTERNAL CONDITION OF THE VAULT.

BE SURE TO RECORD THE LEVEL OF SEDIMENT BUILD-UP ON THE FLOOR OF THE VAULT, IN THE FOREBAY, AND ON TOP OF THE CARTRIDGES. IF FLOW IS OCCURRING, NOTE THE LEVEL OF WATER AND ESTIMATE THE FLOW PER DRAINAGE PIPE. RECORD ALL OBSERVATIONS.

6. REMOVE LARGE LOOSE DEBRIS AND TRASH USING A POLE WITH A GRAPPLE OR NET ON THE END.

7. CLOSE AND FASTEN THE DOOR.

8. REMOVE SAFETY EQUIPMENT.

9. MAKE NOTES ABOUT THE LOCAL DRAINAGE AREA RELATIVE TO ONGOING CONSTRUCTION, EROSION PROBLEMS, OR HIGH LOADINGS OF OTHER MATERIALS TO THE SYSTEM.

10. FINALLY, REVIEW THE CONDITION REPORTS FROM THE PREVIOUS MAJOR AND MAJOR MAINTENANCE VISITS, AND SCHEDULE CARTRIDGE REPLACEMENT IF NEEDED.

2. MAJOR MAINTENANCE:

DEPENDENT ON THE CONFIGURATION OF THE PARTICULAR SYSTEM, A WORKER MAY BE REQUIRED TO ENTER THE VAULT TO PERFORM SOME TASKS.

IMPORTANT: IF VAULT ENTRY IS REQUIRED, OSHA RULES FOR CONFINED SPACE ENTRY MUST BE FOLLOWED.

FILTER CARTRIDGE REPLACEMENT SHOULD OCCUR DURING DRY WEATHER. IT MAY BE NECESSARY TO PLUG THE FILTER INLET PIPE IF BASE FLOWS EXIST. STANDING WATER PRESENT IN THE VAULT SHOULD BE CONTAINED DURING THIS OPERATION BY TEMPORARILY CAPPING THE MANIFOLD CONNECTORS.

REPLACEMENT CARTRIDGE WILL BE DELIVERED TO THE SITE. INFORMATION CONCERNING HOW TO OBTAIN THE REPLACEMENT CARTRIDGES IS AVAILABLE FROM CONTECH STORMWATER SOLUTIONS.

WARNING: IN THE CASE OF A SPILL, THE WORKER SHOULD AVOID MAINTENANCE ACTIVITIES UNTIL THE PROPER GUIDANCE IS OBTAINED. NOTIFY THE LOCAL HAZARD CONTROL AGENCY AND CONTECH STORMWATER SOLUTIONS IMMEDIATELY.

TO CONDUCT CARTRIDGE REPLACEMENT AND SEDIMENT REMOVAL

1. IF APPLICABLE, SET UP SAFETY EQUIPMENT TO PROTECT PEDESTRIANS FROM FALL HAZARDS DUE TO OPEN VAULT DOORS OR WHEN WORK IS BEING DONE NEAR WALKWAYS OR ROADWAYS.

2. VISUALLY INSPECT THE EXTERNAL CONDITION OF THE UNIT AND TAKE NOTES CONCERNING DEFECTS/PROBLEMS.

3. OPEN THE DOORS TO THE VAULT AND ALLOW THE SYSTEM TO THE AIR OUT FOR 5-10 MINUTES.

4. WITHOUT ENTERING THE VAULTS, GIVE THE INSIDE OF THE UNITS, INCLUDING COMPONENTS, A GENERAL CONDITION INSPECTION.

5. MAKE NOTES ABOUT THE EXTERNAL AND INTERNAL CONDITION OF THE VAULT. GIVE PARTICULAR ATTENTION TO RECORDING THE LEVEL OF SEDIMENT BUILD-UP ON THE FLOOR OF THE VAULT, IN THE FOREBAY, AND ON TOP OF THE INTERNAL COMPONENTS.

6. REMOVE LARGE LOOSE DEBRIS AND TRASH USING A POLE WITH A GRAPPLE OR NET ON THE END.

7. USING A BOOM, CRANE, OR OTHER DEVICE (DOLLY AND RAMPS), OFFLOAD THE REPLACEMENT CARTRIDGES (UP TO 250 LBS EACH) AND SET ASIDE.

8. REMOVE USED CARTRIDGES FROM THE VAULT USING ONE OF THE FOLLOWING METHODS.

METHOD 1:

A. USING AN APPROPRIATE SLING, ATTACH THE CABLE FROM THE BOOM, CRANE, OR TRIPPOD TO THE CARTRIDGE BEING REMOVED. CONTACT CONTECH STORMWATER SOLUTIONS FOR SPECIFICATIONS ON APPROPRIATE ATTACHMENT DEVICES.

THIS ACTIVITY WILL REQUIRE THAT WORKERS ENTER THE VAULT TO REMOVE THE CARTRIDGE FROM THE DRAINAGE SYSTEM AND PLACE THEM UNDER THE VAULT OPENING FOR LIFTING.

IMPORTANT: NOTE THAT CARTRIDGES CONTAINING MEDIA OTHER THAN THE LEAF MEDIA REQUIRE UNSCREWING FROM THEIR THREADED CONNECTORS. TAKE CARE NOT TO DAMAGE THE MANIFOLD CONNECTORS. THIS CONNECTOR THIS CONNECTOR SHOULD REMAIN INSTALLED IN THE MANIFOLD AND CAPPED IF NECESSARY.

B. REMOVE THE USED CARTRIDGES (250 LBS EACH) FROM THE VAULT.

IMPORTANT: CARE MUST BE USED TO AVOID DAMAGING THE CARTRIDGES DURING REMOVAL AND INSTALLATION. THE COST OF REPAIRING COMPONENTS DAMAGED DURING MAINTENANCE WILL BE THE RESPONSIBILITY OF THE OWNER UNLESS CONTECH STORMWATER SOLUTIONS PERFORMS THE MAINTENANCE ACTIVITIES AND DAMAGE IS NOT RELATED TO DISCHARGES TO THE SYSTEM.

C. SET THE USED CARTRIDGE ASIDE OR LOAD ONTO THE HAULING TRUCK.

D. CONTINUE STEPS "A" THROUGH "C" UNTIL ALL CARTRIDGES HAVE BEEN REMOVED.

METHOD 2:

A. UNSCREW THE CARTRIDGES CAP.

B. REMOVE THE CARTRIDGE HOOD.

C. TIP THE CARTRIDGE ON ITS SIDE.

IMPORTANT: NOTE THAT CARTRIDGES CONTAINING MEDIA OTHER THAN THE LEAF MEDIA REQUIRE UNSCREWING FROM THEIR THREADED CONNECTORS. TAKE CARE NOT TO DAMAGE THE MANIFOLD CONNECTORS. THIS CONNECTOR THIS CONNECTOR SHOULD REMAIN INSTALLED IN THE MANIFOLD AND CAPPED IF NECESSARY.

D. EMPTY THE CARTRIDGE ONTO THE VAULT FLOOR.

E. SET THE EMPTY, USED CARTRIDGE ASIDE OR LOAD ONTO THE HAULING TRUCK.

F. CONTINUE STEPS "A" THROUGH "E" UNTIL ALL CARTRIDGES HAVE BEEN REMOVED.

9. REMOVE EXPOSED SEDIMENT FROM THE FLOOR OF THE VAULT AND, IF LARGE AMOUNTS ARE PRESENT, FROM THE FOREBAY. THIS CAN USUALLY BE ACCOMPLISHED BY SHOVELING THE SEDIMENT INTO CONTAINERS, WHICH, ONCE FULL, ARE LIFTED MECHANICALLY FROM THE VAULT AND PLACED ONTO THE HAULING TRUCK.

METHOD 2 IN STEP B IS USED TO EMPTY THE CARTRIDGES, OR IN CASES OF EXTREME SEDIMENT LOADING, A VACUUM TRUCK MAY BE REQUIRED.

10. ONCE THE SEDIMENTS ARE REMOVED, ASSESS THE CONDITION OF THE VAULT AND THE CONDITION OF THE MANIFOLD AND CONNECTORS. THE CONNECTORS ARE SHORT SECTIONS OF 2-INCH SCHEDULE 40 PVC OR THREADED SCHEDULE 80 PVC THAT SHOULD PROTRUDE ABOVE THE FLOOR OF THE VAULT.

A. IF REQUIRED, APPLY A LIGHT COATING OF ITA APPROVED SILICON GREASE TO THE OUTSIDE OF THE EXPOSED PORTION OF THE CONNECTORS. THIS ENSURES A WATER-TIGHT CONNECTION BETWEEN THE CARTRIDGE AND THE DRAINAGE PIPE.

B. REPLACE ANY DAMAGED CONNECTORS.

11. USING THE BOOM, CRANE, OR TRIPPOD, LOWER AND INSTALL THE NEW CARTRIDGES. ONCE AGAIN, TAKE CARE NOT TO DAMAGE CONNECTIONS.

12. CLOSE AND FASTEN THE DOOR.

13. REMOVE SAFETY EQUIPMENT.

14. MAKE NOTES ABOUT THE LOCAL DRAINAGE AREA RELATIVE TO ONGOING CONSTRUCTION, EROSION PROBLEMS, OR HIGH LOADINGS OF OTHER MATERIALS TO THE SYSTEM.

15. FINALLY, DISPOSE OF THE RESIDUAL MATERIALS IN ACCORDANCE WITH APPLICABLE REGULATIONS. MAKE ARRANGEMENTS TO RETURN THE USED CARTRIDGES TO CONTECH STORMWATER SOLUTIONS.

E. RELATED MAINTENANCE ACTIVITIES:

(PERFORMED ON AN AS-NEEDED BASIS)

STORMFILTER UNITS ARE OFTEN JUST ONE OF MANY COMPONENTS IN A MORE COMPREHENSIVE STORMWATER DRAINAGE AND TREATMENT SYSTEM. THE ENTIRE SYSTEM MAY INCLUDE CATCH BASINS, DETENTION VAULTS, SEDIMENTATION VAULTS AND MANHOLES, DETENTION/RETENTION POND, SWALES, ARTIFICIAL WETLANDS, AND OTHER MISCELLANEOUS COMPONENTS.

IN ORDER FOR MAINTENANCE OF THE STORMFILTER TO BE SUCCESSFUL, IT IS IMPERATIVE THAT ALL OTHER COMPONENTS BE PROPERLY MAINTAINED. THE MAINTENANCE/REPAIR OF UPSTREAM FACILITIES SHOULD BE CARRIED OUT PRIOR TO STORMFILTER MAINTENANCE ACTIVITIES.

IN ADDITION TO CONSIDERING UPSTREAM FACILITIES, IT IS ALSO IMPORTANT TO CORRECT ANY PROBLEMS IDENTIFIED IN THE DRAINAGE AREA. DRAINAGE AREA CONCERNS MAY INCLUDE EROSION PROBLEMS, HEAVY OIL AND GREASE LOADING, AND DISCHARGES OF INAPPROPRIATE MATERIALS.

F. RELATED MAINTENANCE ACTIVITIES:

THE ACCUMULATED SEDIMENT FOUND IN STORMWATER TREATMENT AND CONVEYANCE SYSTEMS MUST BE HANDLED AND DISPOSED OF IN A MANNER THAT WILL NOT ALLOW THE MATERIAL TO AFFECT SURFACE OF GROUND WATER. IT IS POSSIBLE FOR SEDIMENTS TO CONTAIN MEASURABLE CONCENTRATIONS OF HEAVY METALS AND ORGANIC CHEMICALS (SUCH AS PESTICIDES AND PETROLEUM PRODUCTS). AREAS WITH THE GREATEST POTENTIAL FOR HIGH POLLUTANT LOADING INCLUDE INDUSTRIAL AREAS AND HEAVILY TRAVELED ROAD.

SEDIMENTS AND WATER MUST BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE WASTE DISPOSAL REGULATIONS. IT IS NOT APPROPRIATE TO DISCHARGE UNTREATED MATERIALS BACK TO THE STORMWATER DRAINAGE SYSTEM.

PART OF ARRANGING FOR MAINTENANCE TO OCCUR SHOULD INCLUDE COORDINATION OF DISPOSAL OF SOLIDS (LANDFILL COORDINATION) AND LIQUIDS (MUNICIPAL WASTEWATER TREATMENT PLANT, LOCAL WASTEWATER TREATMENT PLANT, ON-SITE TREATMENT AND DISCHARGE.)

OWNERS SHOULD CONTACT THE LOCAL PUBLIC WORKS DEPARTMENT AND INQUIRE ABOUT HOW THE DEPARTMENT DISPOSES OF THEIR STREET WASTE RESIDUALS. CONTECH STORMWATER SOLUTIONS WILL DETERMINE DISPOSAL METHODS OR REUSE OF THE MEDIA CONTAINED IN THE CARTRIDGES IF THE MATERIAL HAS BEEN CONTAMINATED WITH ANY UNUSUAL SUBSTANCE. THE COST OF SPECIAL HANDLING AND DISPOSAL WILL BE THE RESPONSIBILITY OF THE OWNER.

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

WITHIN 21 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE STORMWATER DISCHARGE FACILITY, PLEASE SEND THIS PAGE TO THE WATERSHED PROTECTION DIVISION - DEPARTMENT OF HEALTH

1. STORMWATER DISCHARGE FACILITY INFORMATION:

SOURCE NAME: _____
SOURCE LOCATION: STREET: _____
CITY: _____

DORA PERMIT NO.: _____
DATE ISSUED: _____

2. AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT STORMWATER DISCHARGE FACILITY HAS BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THAT SUBSTANTIAL DEVIATIONS (NOTED BELOW) WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF SECTION 526 THROUGH 535 OF DCMP-21, CHAPTER 5 WHEN PROPERLY MAINTAINED AND OPERATED. THESE DETERMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF CONSTRUCTION, SCHEDULED AND CONDUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT (ENGINEERING DRAWINGS).

SIGNATURE OF ENGINEER: _____ NAME (PLEASE TYPE) S.E. REG. NO. _____

AFTER SEAL: _____ COMPANY NAME: _____

COMPANY ADDRESS: _____

DATE: _____ TELEPHONE: _____

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS (ATTACH ADDITIONAL SHEETS IF REQUIRED).

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 526 THROUGH 535 OF DCMP-21, CHAPTER 5. RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE WATERSHED PROTECTION DIVISION OF THE DEPARTMENT OF HEALTH FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY, CERTIFYING THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 OF DCMP-21, CHAPTER 5 HAS BEEN ACCEPTED. FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 HAS BEEN ACCEPTED.

SIGNATURE OF PERSON RESPONSIBLE FOR MAINTENANCE (IT MAY BE THE APPLICANT): _____

NAME AND TITLE (PLEASE TYPE): _____

ADDRESS: _____

DATE: _____ PHONE NO. _____

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER SECTION 526 THROUGH 535 OF DCMP-21, CHAPTER 5. IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

SIGNATURE OF THE ENGINEER: _____

AFTER SEAL: _____ NAME AND TITLE (PLEASE TYPE): _____

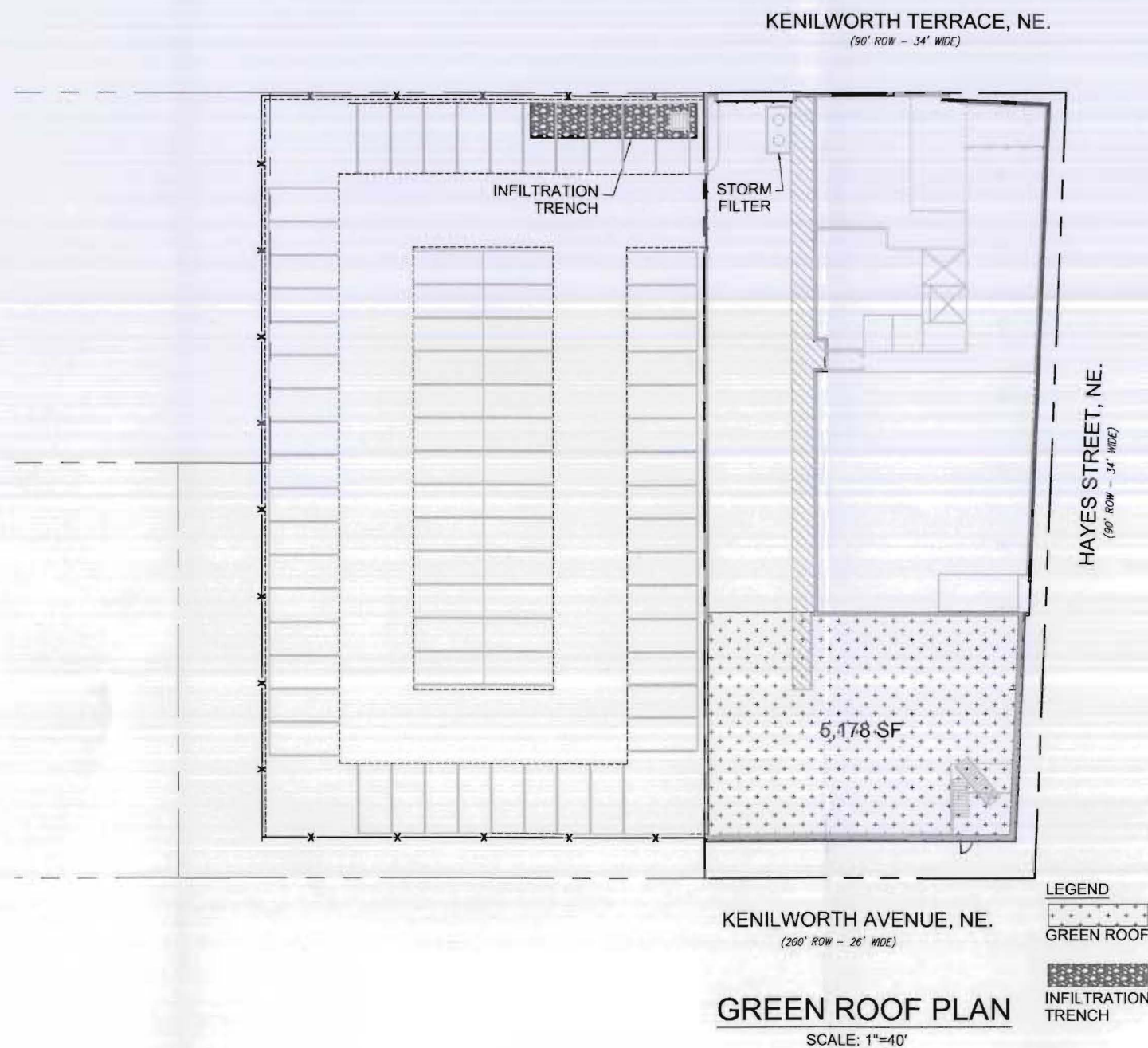
11860 Sunrise Valley Drive, Suite 200

Reston, VA 20191

DATE: _____ PHONE NO. (703) 391-7600

PARKSIDE HEALTH CARE CENTER
PARKSIDE DEVELOPMENT, WASHINGTON DC

**STORM FILTER STRUCTURE
PLAN AND DETAILS**



MAINTENANCE AND ESTABLISHMENT PERIOD:

THE MAINTENANCE OF GREEN ROOFS IS CRITICAL DURING THE FIRST 12 TO 18 MONTHS DURING THE PLANT ESTABLISHMENT PERIOD. THIS ESTABLISHMENT PERIOD IS MINIMAL FOR MODULAR AND MAT SYSTEMS, WHICH ARE GROWN PRIOR TO INSTALLATION. GREEN ROOFS ARE CONSIDERED ESTABLISHED WHEN THEY HAVE REACHED 80% COVERAGE, AROUND A 3-YEAR GROWTH PERIOD.

DURING THE ESTABLISHMENT PERIOD HAND WEEDING SHOULD OCCUR ON A QUARTERLY TO BI-MONTHLY BASIS UNTIL ESTABLISHED AND TWICE EVERY YEAR FOLLOWING, BASED ON SEED GERMINATION RATES AND SEASONAL CIRCUMSTANCES OF THE PROJECT AREA. IF WEED GERMINATION RATE IS HIGH IN THE PROJECT AREA, THE USE OF PRE-EMERGENT HERBICIDES MAY BE APPLIED WITH THE CONSULTATION OF THE HORTICULTURIST. IF WEEDS GERMINATION OF THE AREA IS CRUCIAL IN THIS CIRCUMSTANCE. ONCE ESTABLISHED, REGULAR PLANT INSPECTION OF THE GREEN ROOF SHOULD OCCUR AT LEAST TWICE PER YEAR TO MONITOR WEED GROWTH AND GENERAL UPKEEP.

IF AREAS OF GREEN ROOF DO NOT ESTABLISH OR DIE BACK, THE PLANT SELECTION SHOULD BE REVIEWED AND SUBSTITUTED FOR THE SPECIES THAT ARE CURRENTLY THRIVING IN THE MIX. SOIL AND WATER RETENTION LEVELS SHOULD ALSO BE EVALUATED AS POTENTIAL REASONS FOR VEGETATIVE DIEBACK.

MAINTENANCE: FERTILIZATIONS:

GREEN ROOF FERTILIZATION OCCURS DURING THE ESTABLISHMENT PERIOD, STARTING ONE YEAR POST-INSTALLATION ON A YEARLY BASIS. CONSULT WITH HORTICULTURIST ON THE USE OF SLOW-RELEASE FERTILIZERS, SIMILAR TO A 14-14-14 NUTRIENT FEED. DEPENDING ON THE OVERALL HEALTH OF THE INSTALLED GREEN ROOF, AFTER FIVE YEARS OF ESTABLISHMENT AND GROWTH THE GREEN ROOF SHOULD BE ASSESSED. THE ASSESSMENT WILL DETERMINE IF FEEDING SHOULD DECREASED OR DISCONTINUED. CONTINUED ANNUAL MONITORING WILL DETERMINE IF ADDITIONAL FEEDING SHOULD OCCUR.

GREEN ROOF AREA:

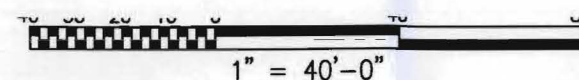
5,178 SF 0.1189 AC.

NOTE

UTILITY AND STORMWATER MANAGEMENT DESIGN IS SCHEMATIC IN NATURE. FINAL UTILITY AND STORMWATER MANAGEMENT PROVISIONS TO BE DETERMINED DURING FINAL DESIGN PROCESS.

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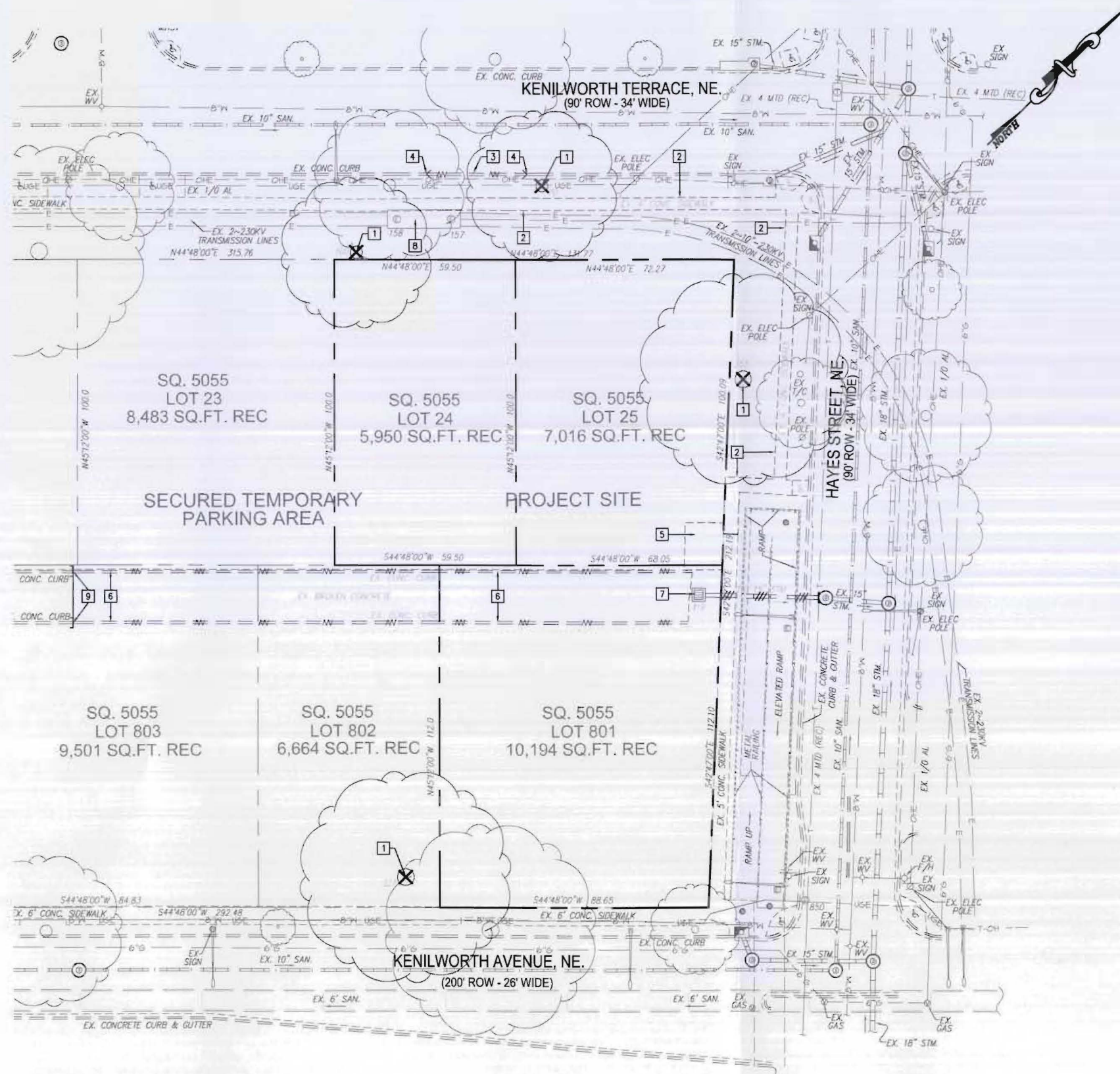
STORM WATER MANAGEMENT PLAN



**WILES
MENSCH
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DEMOLITION LEGEND: PROPOSED

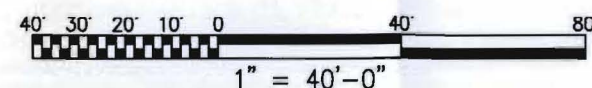
PAVEMENT DEMOLITION	
CONCRETE DEMOLITION	
DEMOLITION KEY-NOTE	
TERMINATE DEMOLITION	
CAPPED UTILITY	
ITEM DEMOLITION	

DEMOLITION KEYNOTES:

- EXISTING TREE TO BE REMOVED. COORDINATE REQUIREMENTS WITH LANDSCAPE DRAWINGS AND DC URBAN FORESTRY ADMINISTRATOR.
- EXISTING CONCRETE SIDEWALK TO BE REMOVED.
- EXISTING CONCRETE CURB TO BE REMOVED.
- LIMIT OF EXISTING CONCRETE CURB TO BE REMOVED.
- EXISTING PAVEMENT TO BE REMOVED.
- EXISTING BROKEN CONCRETE AND CONCRETE CURB TO BE REMOVED.
- EXISTING STORM DRAIN AND RELATED APPURTENANCES TO BE REMOVED TO FACILITATE CONSTRUCTION OF NEW BUILDING. EXISTING LATERAL TO BE CAPPED AND ABANDONED AT MANHOLE PER DC/WASA STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH DC/WASA INSPECTOR MR. TED DYSON AT 202-787-4299.
- EXISTING PEPCO VAULT TOP AND MANHOLE TO BE ADJUSTED TO MATCH PROPOSED GRADES. COORDINATE REQUIREMENTS WITH PEPCO.
- LIMIT OF EXISTING CURB AND PAVEMENT TO BE REMOVED.

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