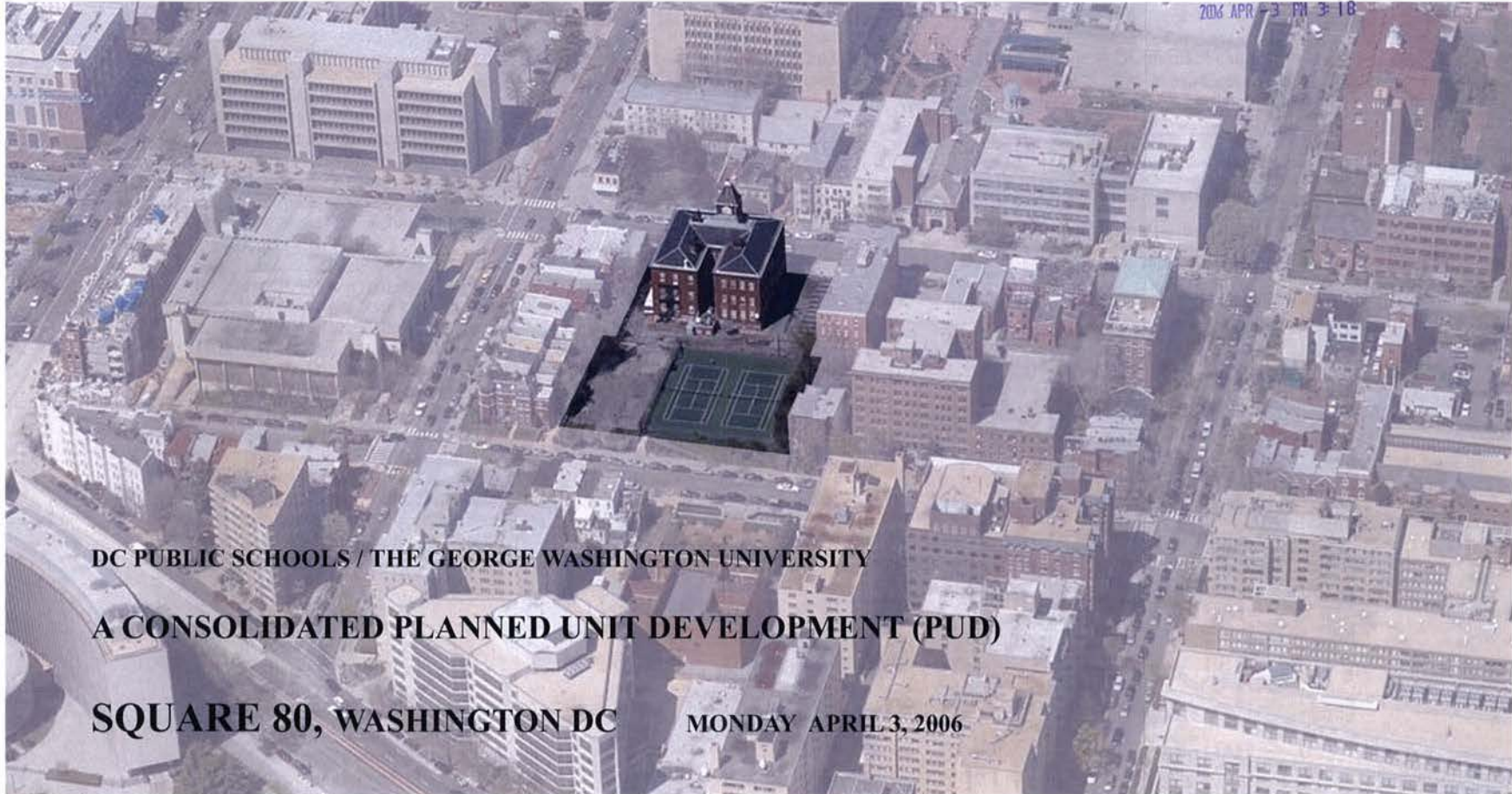


EXHIBIT E
Architectural Drawings, Elevations, & Context Photographs

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DC PUBLIC SCHOOLS / THE GEORGE WASHINGTON UNIVERSITY

A CONSOLIDATED PLANNED UNIT DEVELOPMENT (PUD)

SQUARE 80, WASHINGTON DC

MONDAY APRIL 3, 2006

date: 04.03.06

E.1

ZONING COMMISSION

DMJM | CGS

District of Columbia
CASE NO. 06-17
EXHIBIT NO. 7E



Square 80 PUD Submission

Sheet Index

- E.1 Cover Sheet
- E.2 General Information
- E.3 Civil Site Plan
- E.4 Existing Conditions Plan
- E.5 Erosion and Sediment Control Plan
- E.6 Stormwater Concept Plan
- E.7 Stormwater Concept Calculations
- E.8 Utility Layout Plan
- E.9 Combined Architectural Site Plan
- E.10 Circulation Plan
- E.11 Landscape Plan
- E.12 GW Residence Hall: Typical Parking Level Plan
- E.13 GW Residence Hall: Lower Level Plan
- E.14 GW Residence Hall: First Floor Plan
- E.15 GW Residence Hall: 2nd-4th Floor Plan
- E.16 GW Residence Hall: 5th-9th Floor Plan
- E.17 GW Residence Hall: 10th Floor Plan
- E.18 GW Residence Hall: Roof Plan
- E.19 School Without Walls: Cellar Plan
- E.20 School Without Walls: First Floor Plan
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- E.36 Site Context F Street
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Project Team

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The George Washington University
2121 Eye Street, NW
Washington DC 20052

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Team*

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Golden Engineering - MEP
4455 Connecticut Ave. NW, Suite A600
Washington DC 20008



*Vicinity
Plan*

General Information

date: 04.03.06

E.2

Square 80 PUD Submission

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G STREET, N.W.
90 ft. Wide Public Street

ONE-WAY TRAFFIC
ASPHALT PAVEMENT

LEGEND



NEW BUILDING CONSTRUCTION

EXISTING BUILDING



GREEN SPACE



PEDESTRIAN PLAZA, SIDEWALKS,
AND PAVEMENT



CONCRETE PAVEMENT

scale: 1" = 30'-0"



Civil Site Plan

date: 04.03.06



E.3



Square 80 PUD Submission



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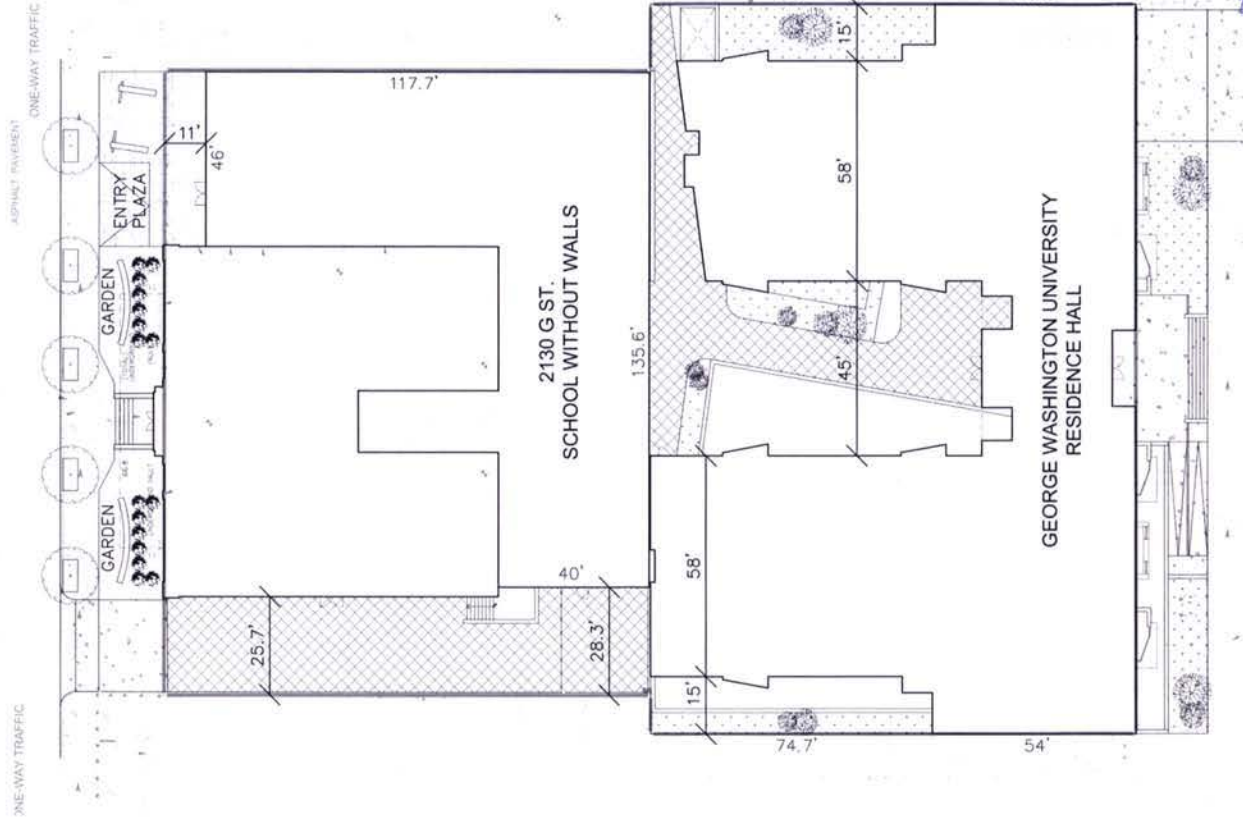
ASPHALT PAVEMENT

ONE-WAY TRAFFIC

ASPHALT PAVEMENT

ONE-WAY TRAFFIC

F STREET, N.W.
100 ft. Wide Public Street





Scale: 1" = 30'-0"



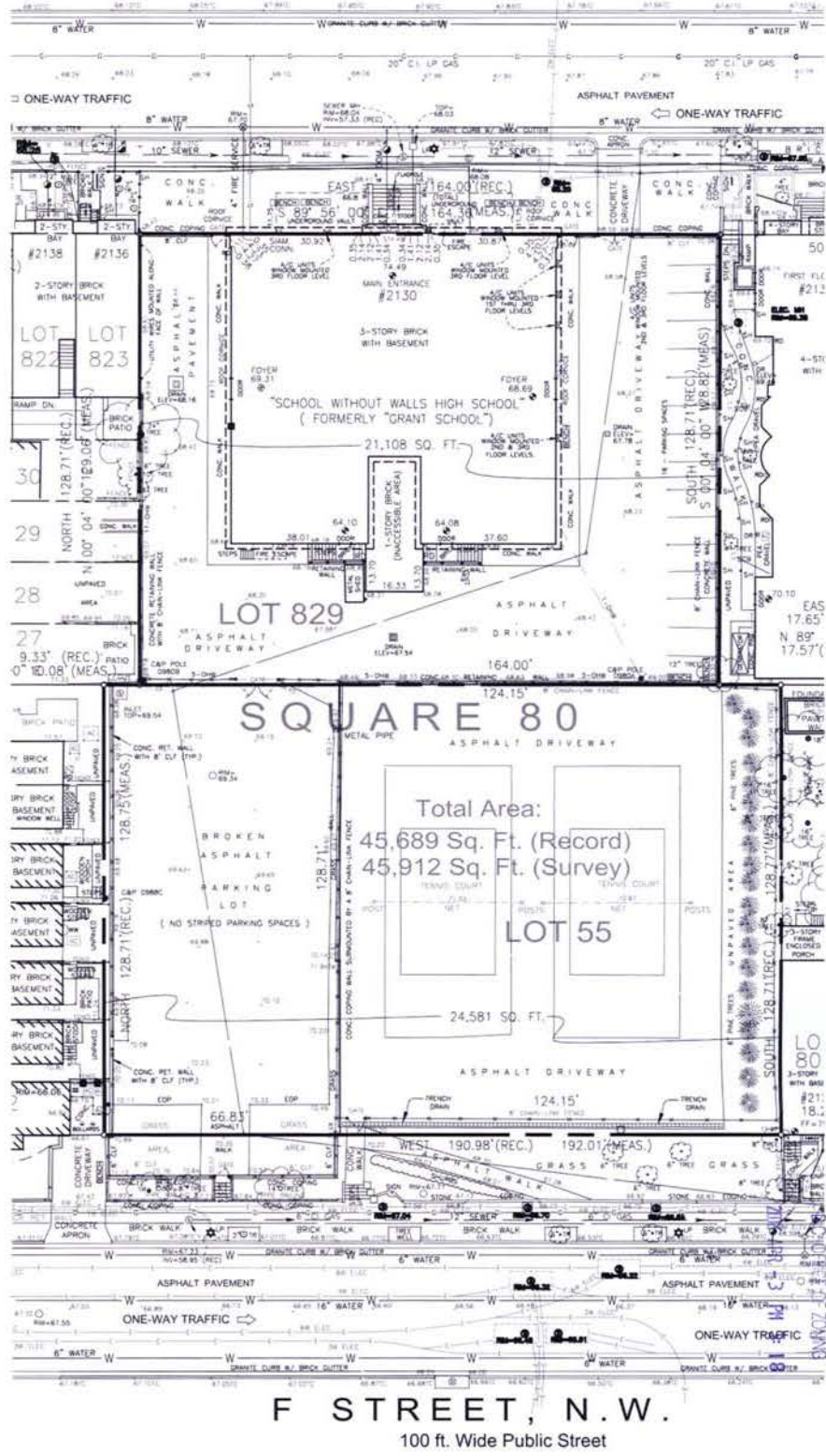
Existing Conditions Plan

Square 80 PUD Submission

date: 04.03.06

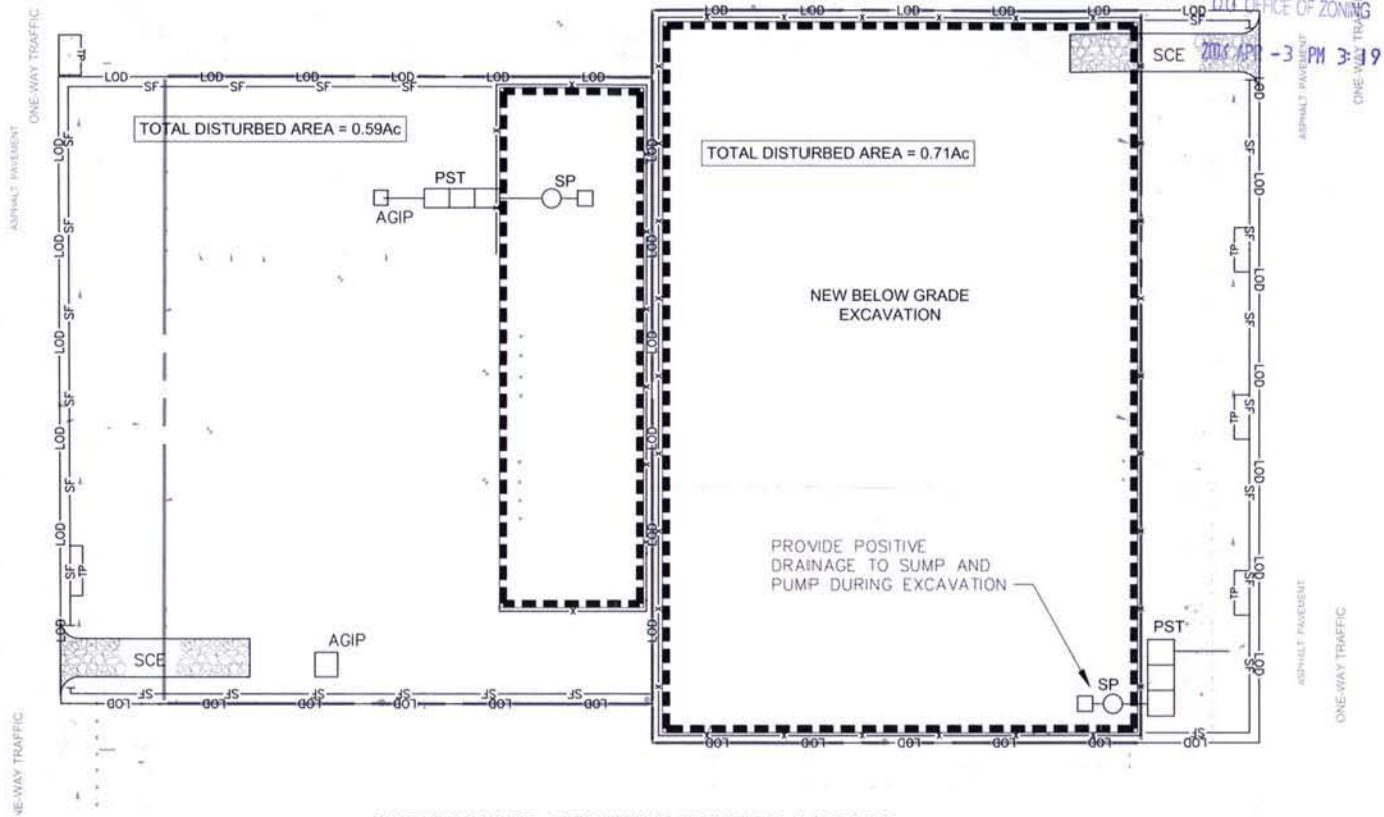


G STREET, N.W.
90 ft. Wide Public Street



RECEIVED

G STREET, N.W.
90 ft. Wide Public Street



F STREET, N.W.
100 ft. Wide Public Street

EROSION AND SEDIMENT CONTROL LEGEND

- LOD — LIMIT OF DISTURBANCE
- SF — SILT FENCE
- TP — TREE PROTECTION
- AGIP AT GRADE INLET PROTECTION

- x — CHAINLINK SAFETY FENCE
-  SCE STABILIZED CONSTRUCTION ENTRANCE

-  APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION
-  SP PORTABLE SEDIMENT TANK
-  PST SUMP AND PUMP

scale: 1" = 30'-0"



Erosion and Sediment Control Plan

date: 04.03.06



E.5

STORMWATER COMPUTATIONS

GWU RESIDENCE HALL & SCHOOL WITHOUT WALLS - SWM STUDY

1. COMPUTE V_w	BMP "A"	BMP "B"	TOTAL	UNITS
CONTRIBUTING AREA	0.56	0.49	1.05	Ac
IMPERVIOUS AREA	0.56	0.49	1.05	Ac
$V_w = (I_A \times 1089)$	609.84	533.61	1143.45	CF
$R \times 43,560 / 12 = 1089$ WHERE RUNOFF = 0.3" FOR ROOFS, SIDEWALKS, & PEDESTRIAN PLAZAS				

2. COMPUTE DETENTION VOLUME (PEAK FLOW ATTENUATION)

2.1 2 YR. PRE-DEVELOPMENT

$$C = 0.35$$

$$I_2 = 5.28 \text{ IN/HR}$$

$$Q_2 = CIA$$

1.03	0.91	1.94	CFS
------	------	------	-----

2.2 15 YR. POST-DEVELOPMENT

$$C = 0.90$$

$$I_{15} = 7.56 \text{ IN/HR}$$

$$Q_{15} = CIA$$

3.81	3.33	7.14	CFS
------	------	------	-----

$$\text{DETENTION VOLUME REQUIRED} = 1.25(300)(Q_{15} - Q_2)$$

$V_q =$	1042.5	907.5	1950	CF
---------	--------	-------	------	----

2.3 STORAGE VOLUME REQUIRED

$$A_f = 50 + (I_a - 0.1) \times 167 \text{ SF/Ac}$$

126.8	115.1	241.9	CF
-------	-------	-------	----

$$V_s = V_w - (F \times T \times A_f)$$

460.22	397.8	858.0	CF
--------	-------	-------	----

2.4 TOTAL VOLUME REQUIRED

$$(\text{GREATER OF } V_q \text{ AND } V_s)$$

1042.5	907.5	1950	CF
--------	-------	------	----

3. STORAGE PROVIDED

$$A_f = L_1 \times W \Rightarrow L_1 = A_f / W$$

$$\text{ASSUME } W = 6'$$

$$L_1 =$$

21.13	19.18
-------	-------

$$L_1 \geq L_2 / 3$$

7.04	6.39
------	------

$$L_1 + L_2 \geq 3 \times 6$$

28.17 $\geq$ 18	25.57 $\geq$ 18	OK
-----------------	-----------------	----

$$\text{SELECT } L_1 = 4'$$

$$\text{DIMENSIONS}$$

6x32x8	6x29x8
--------	--------

$$\text{VOLUME}$$

1536	1392
------	------

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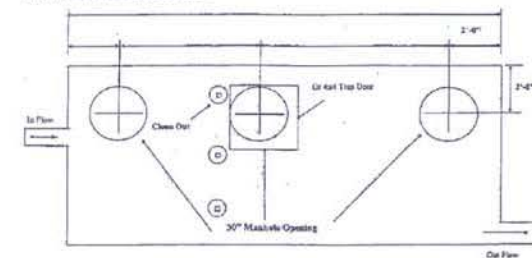
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F-3

Figure 3.4a Example of Three-Chamber Underground Sand Filter for Combined Sewer Areas

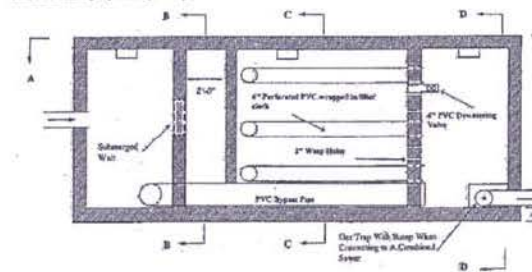
F-3
2016 APR -3 PM 3:19

Note: Over Flowing Chamber Trap Door is Optional.



Plan View (Top Slab)
NTS

Note: Dimensions may vary from design to design.



Plan View (Top Slab Removed)
NTS

Source: District of Columbia, 2001

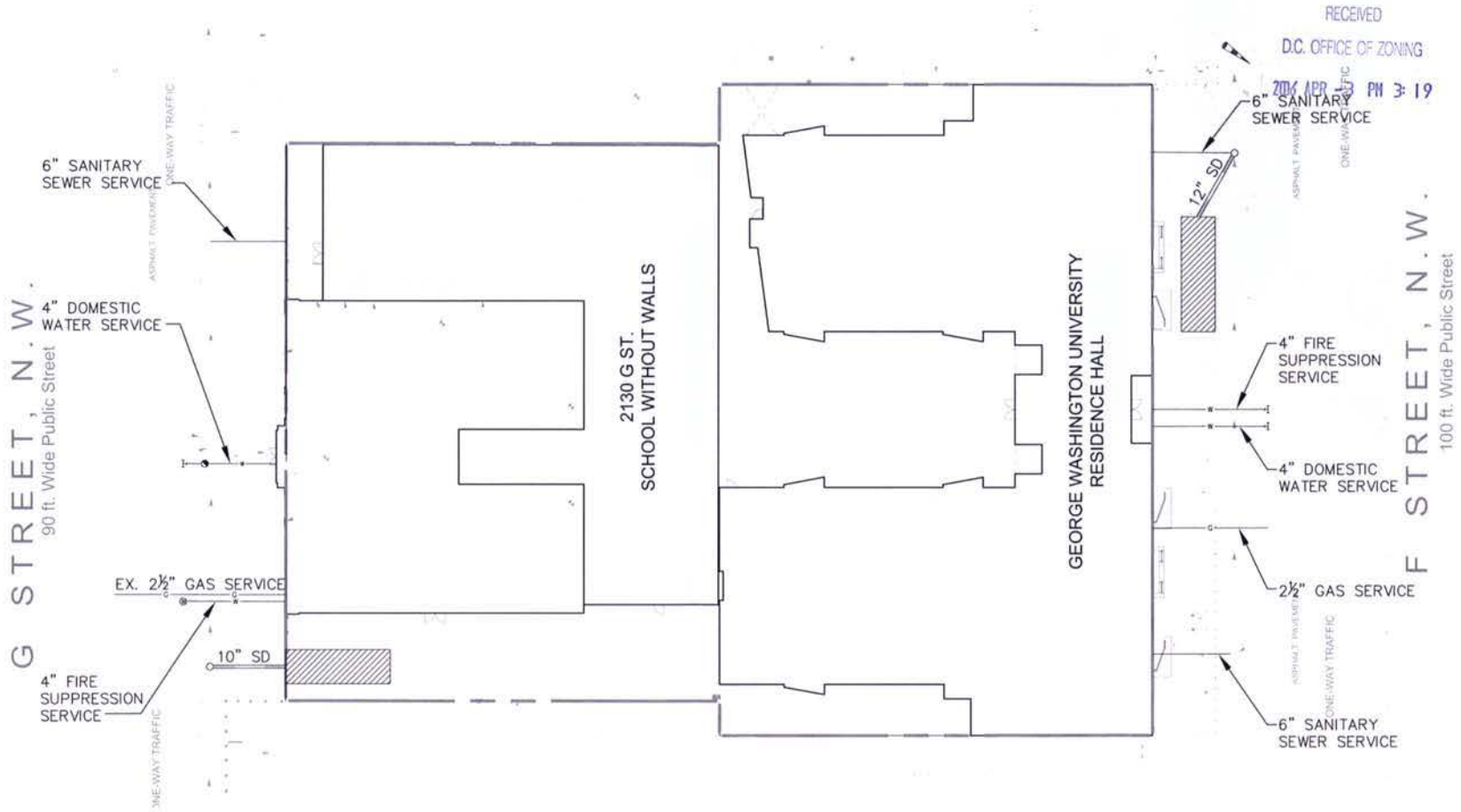
The three-chamber underground sand filter is an option for providing V_w where space or land prices are at a premium.

scale:

Stormwater Concept Calculations

date: 04.03.06

E.7



NOTE: ALL YARD INLETS AND TRENCH DRAINS TO BE CONNECTED TO BUILDING PLUMBING USING 6" PVC (TYP.) TO BUILDING.

DOMESTIC AND FIRE WATER METER TO BE PROVIDED PER DC WATER AND SEWER AUTHORITY STANDARDS AND SPECIFICATIONS.

scale: 1" = 30'-0"

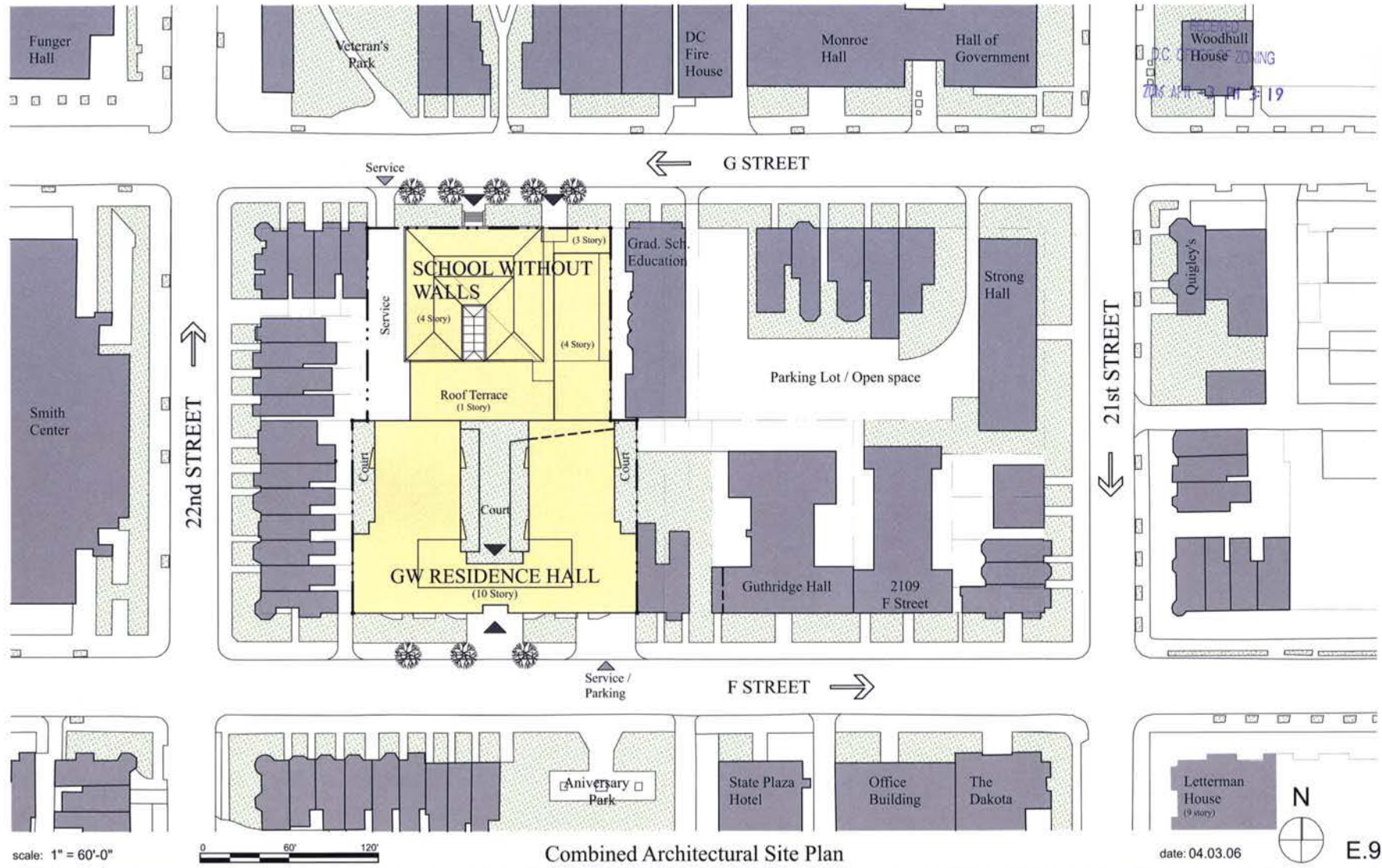


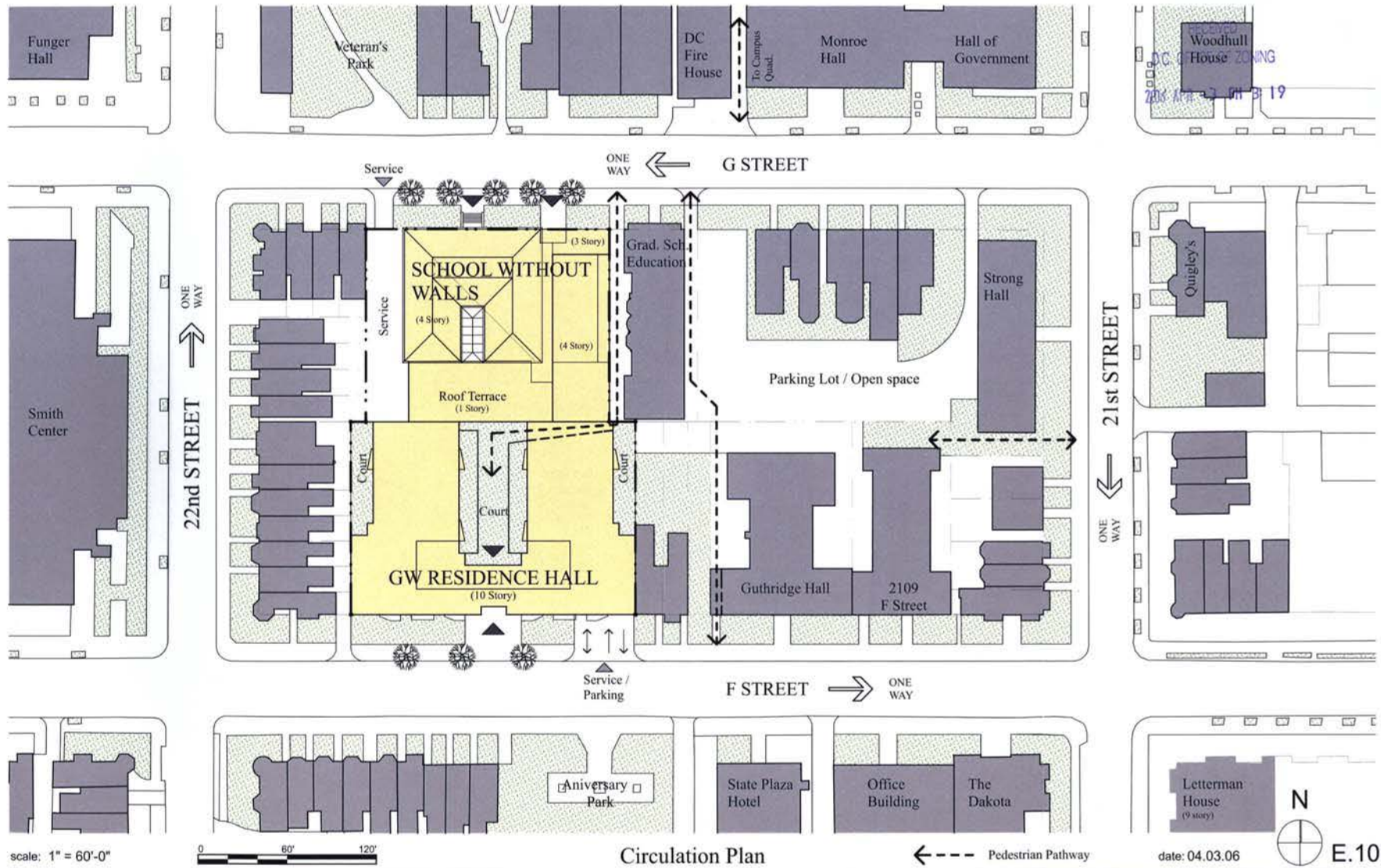
Utility Layout Plan

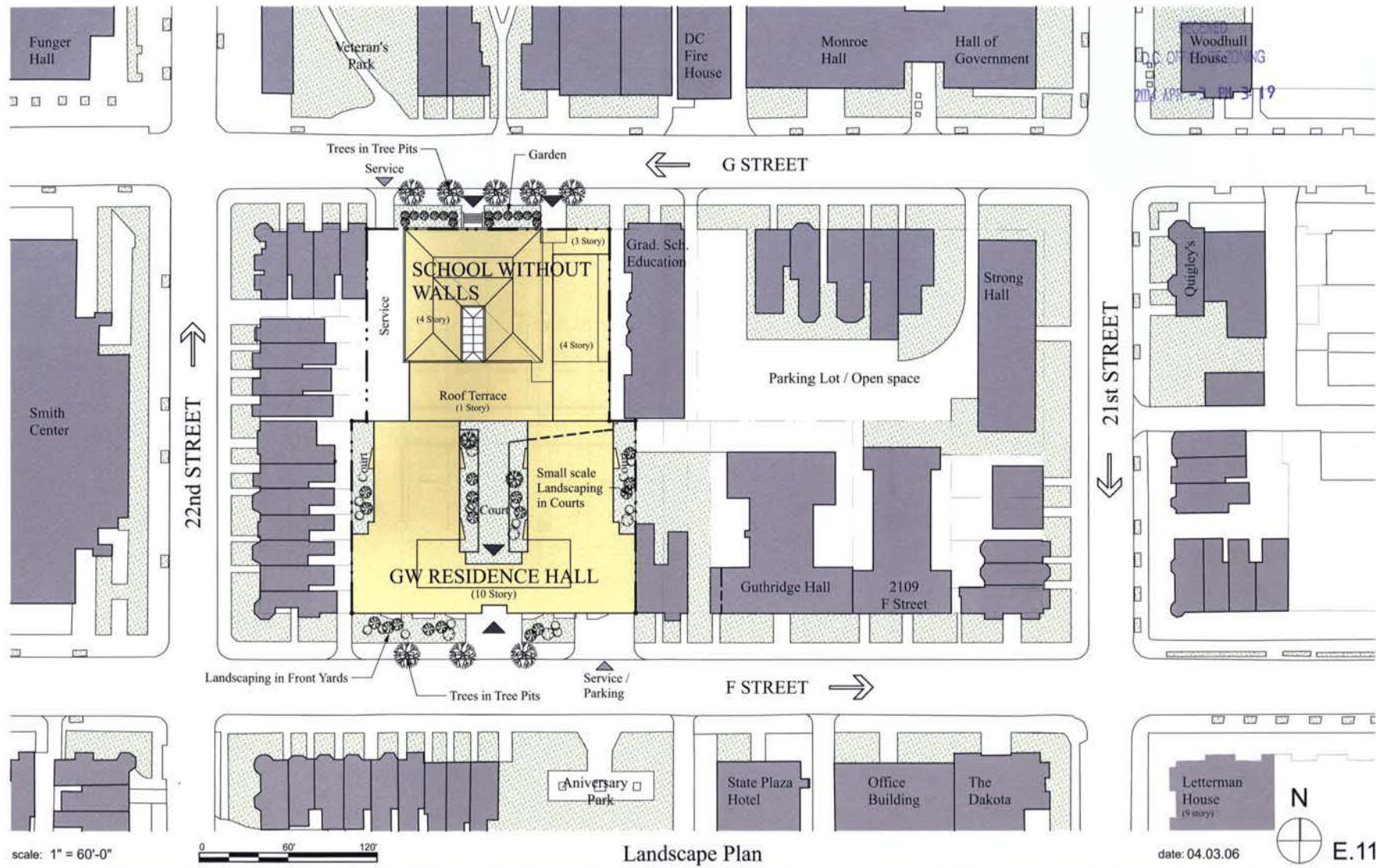
date: 04.03.06



E.8





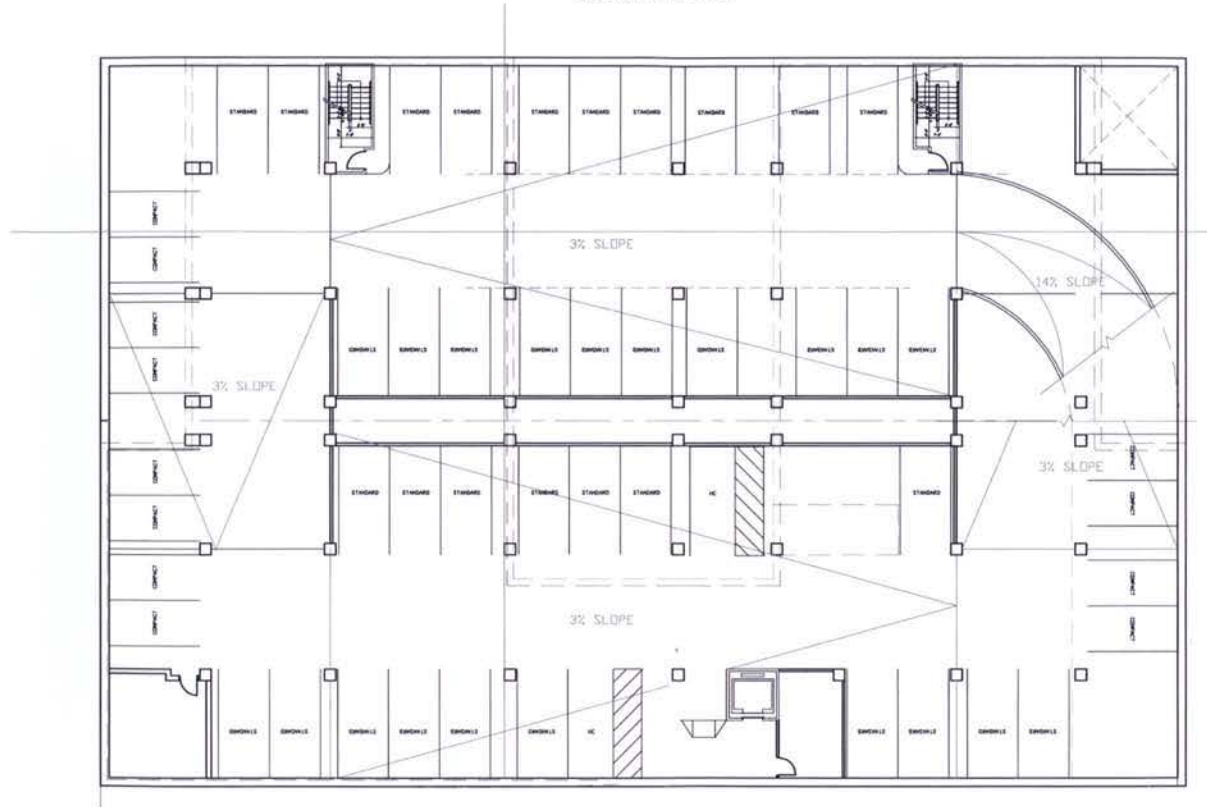
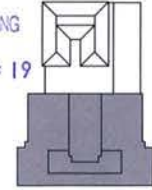


Landscape Plan

Square 80 PUD Submission

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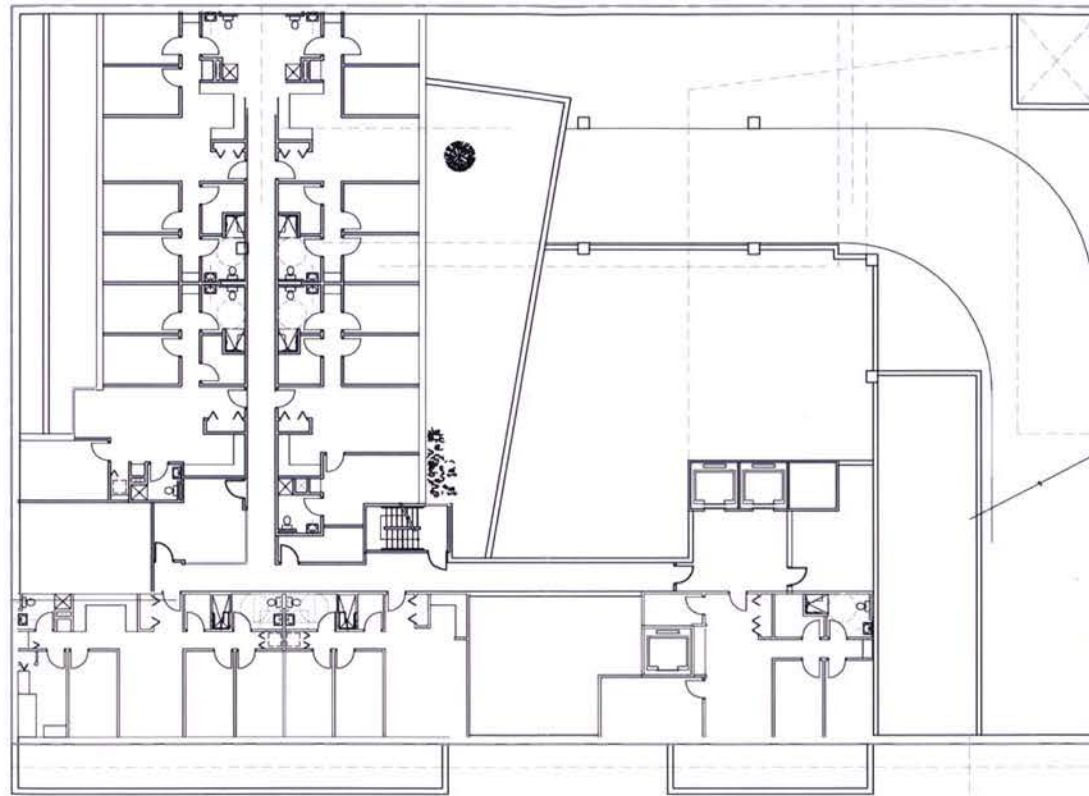
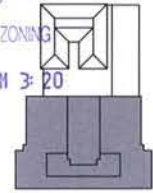
GW Residence Hall: Typical Parking Level Plan

date: 04.03.06



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scale: 1" = 20'-0"



GW Residence Hall: Lower Level Plan

date: 04.03.06



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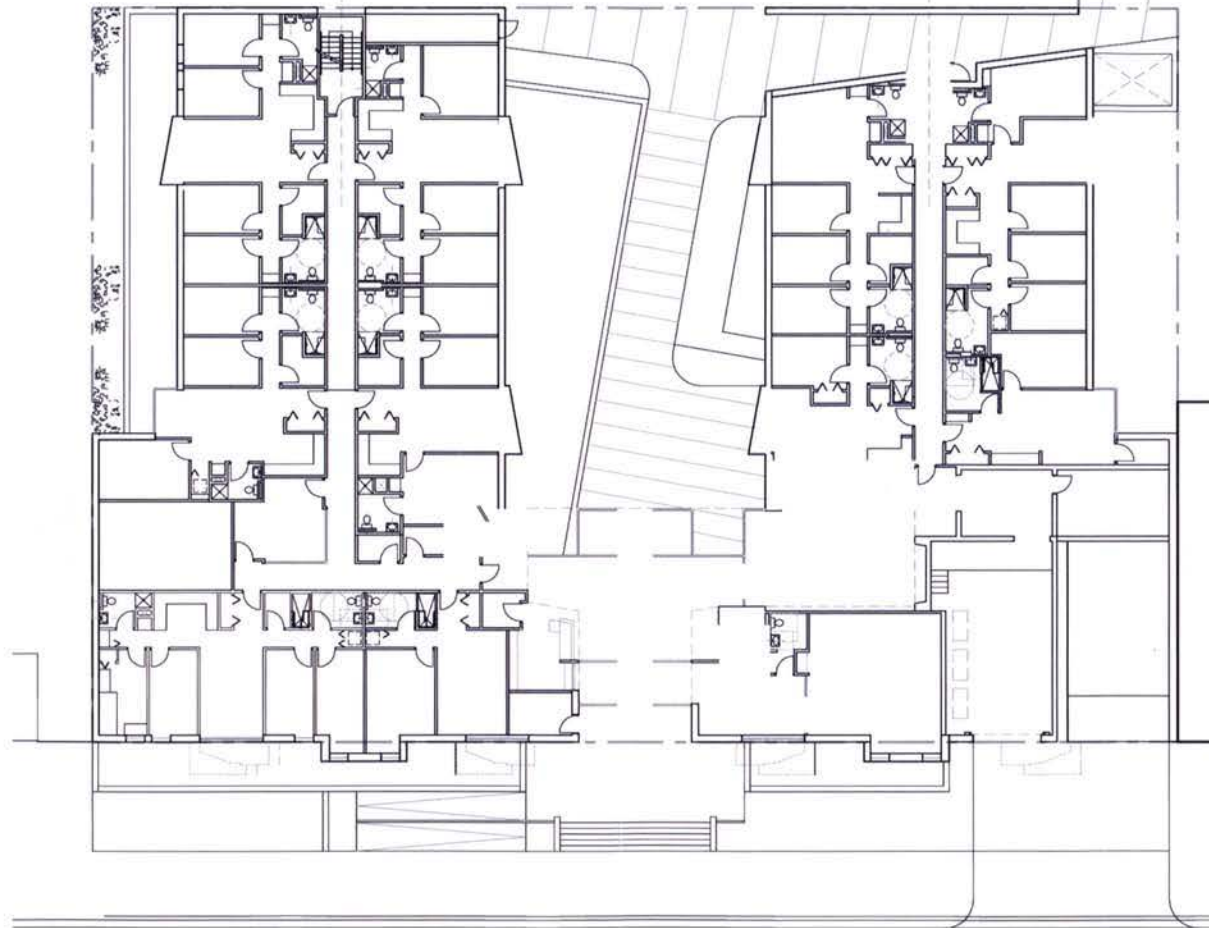
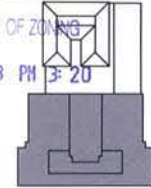


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scale: 1" = 20'-0"



GW Residence Hall: First Floor Plan

date: 04.03.06



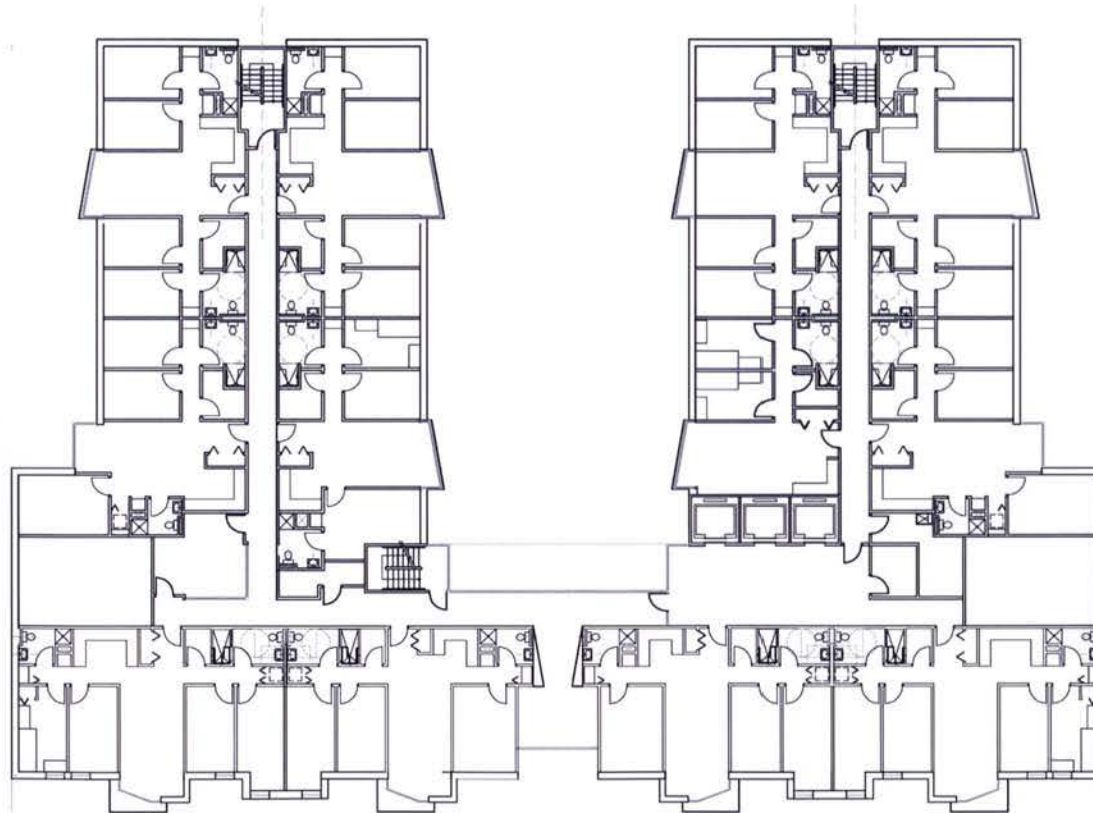
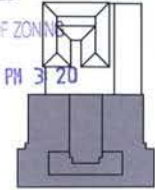
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scale: 1" = 20'-0"



GW Residence Hall: 2nd-4th Floor Plan

date: 04.03.06



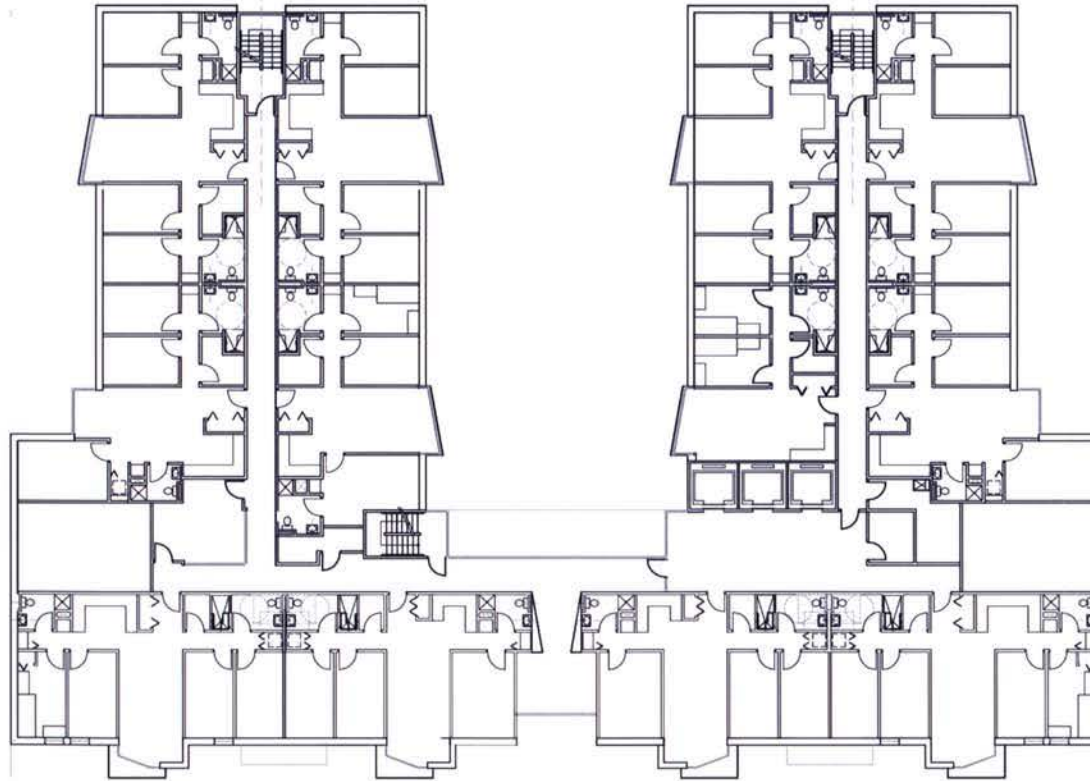
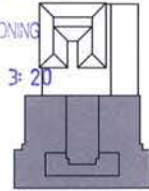
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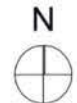


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GW Residence Hall: 5th-9th Floor Plan

date: 04.03.06



E.16



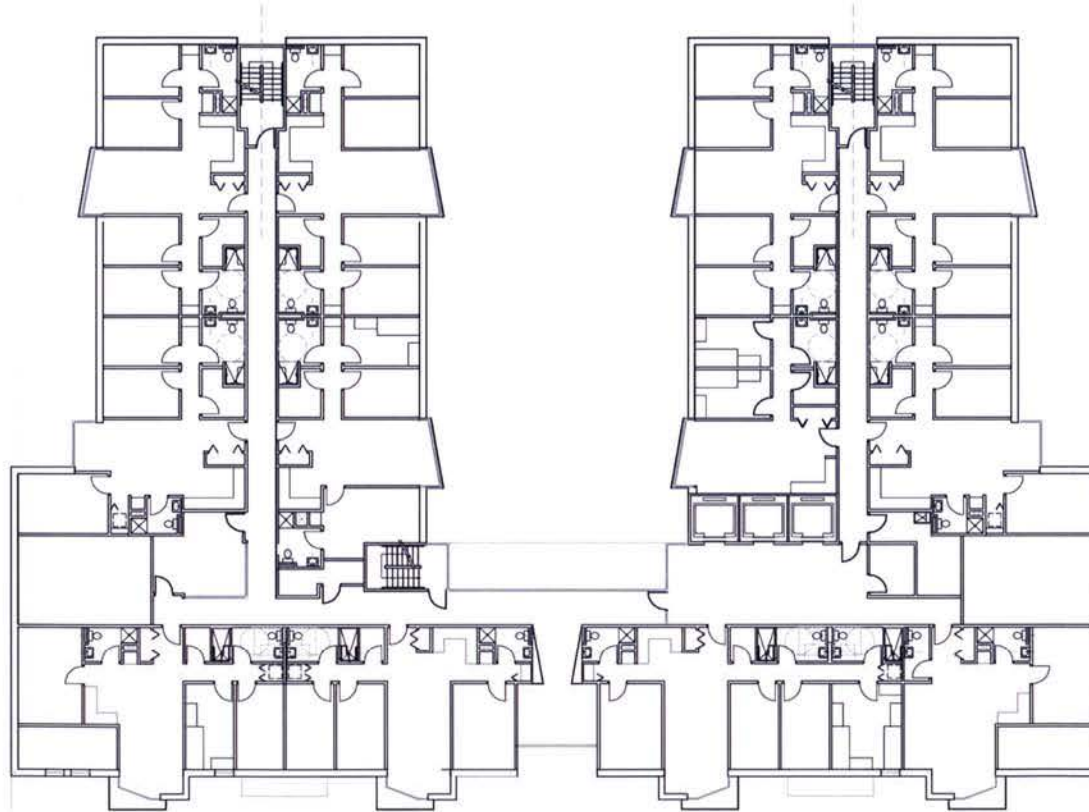
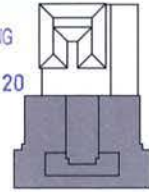
Square 80 PUD Submission

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scale: 1" = 20'-0"



GW Residence Hall: 10th Floor Plan

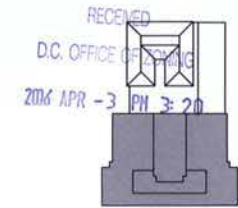
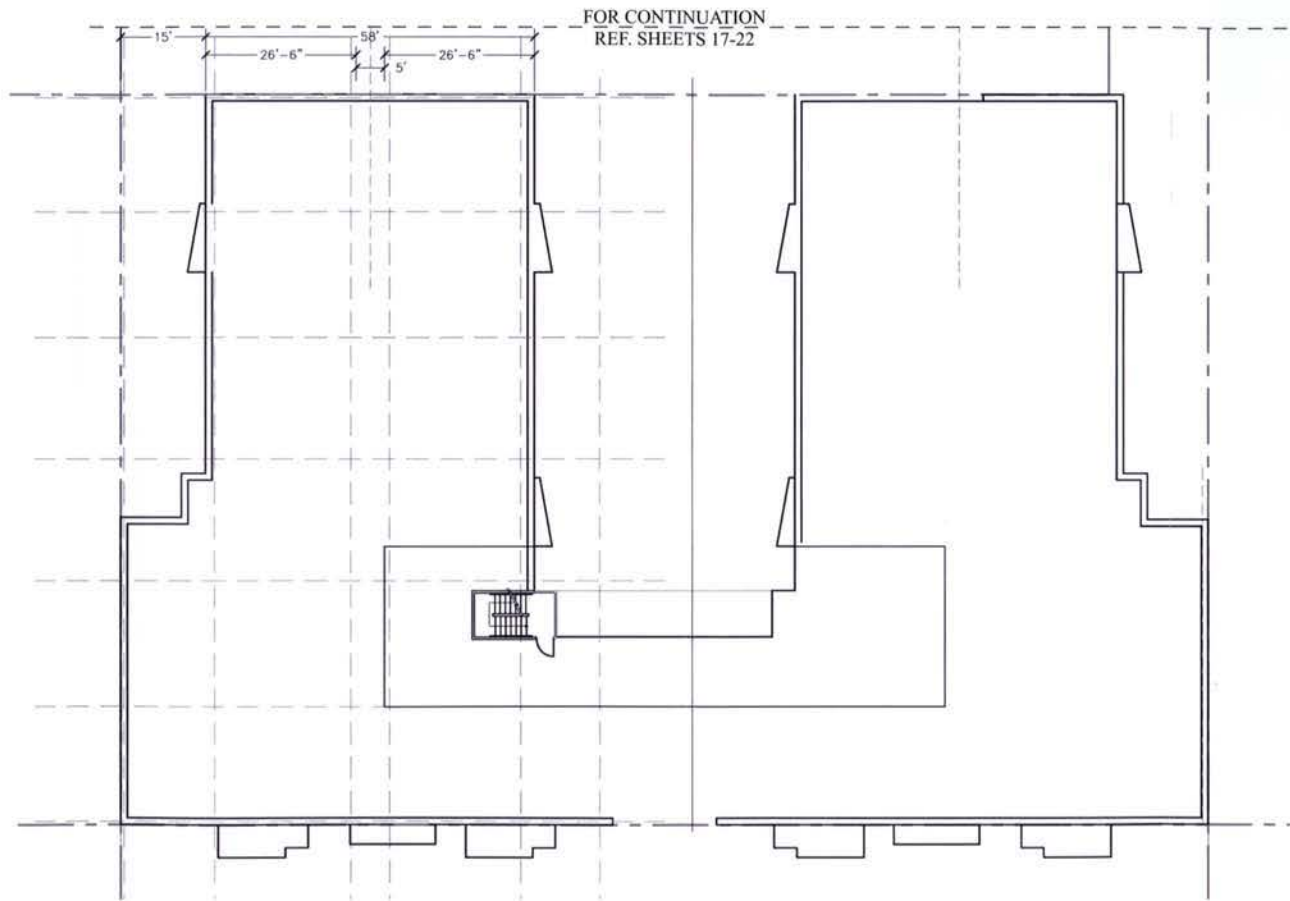
date: 04.03.06



Square 80 PUD Submission

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scale: 1" = 20'-0"



GW Residence Hall: Roof Plan

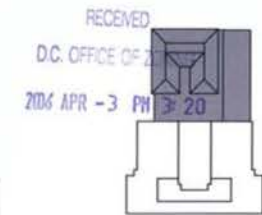
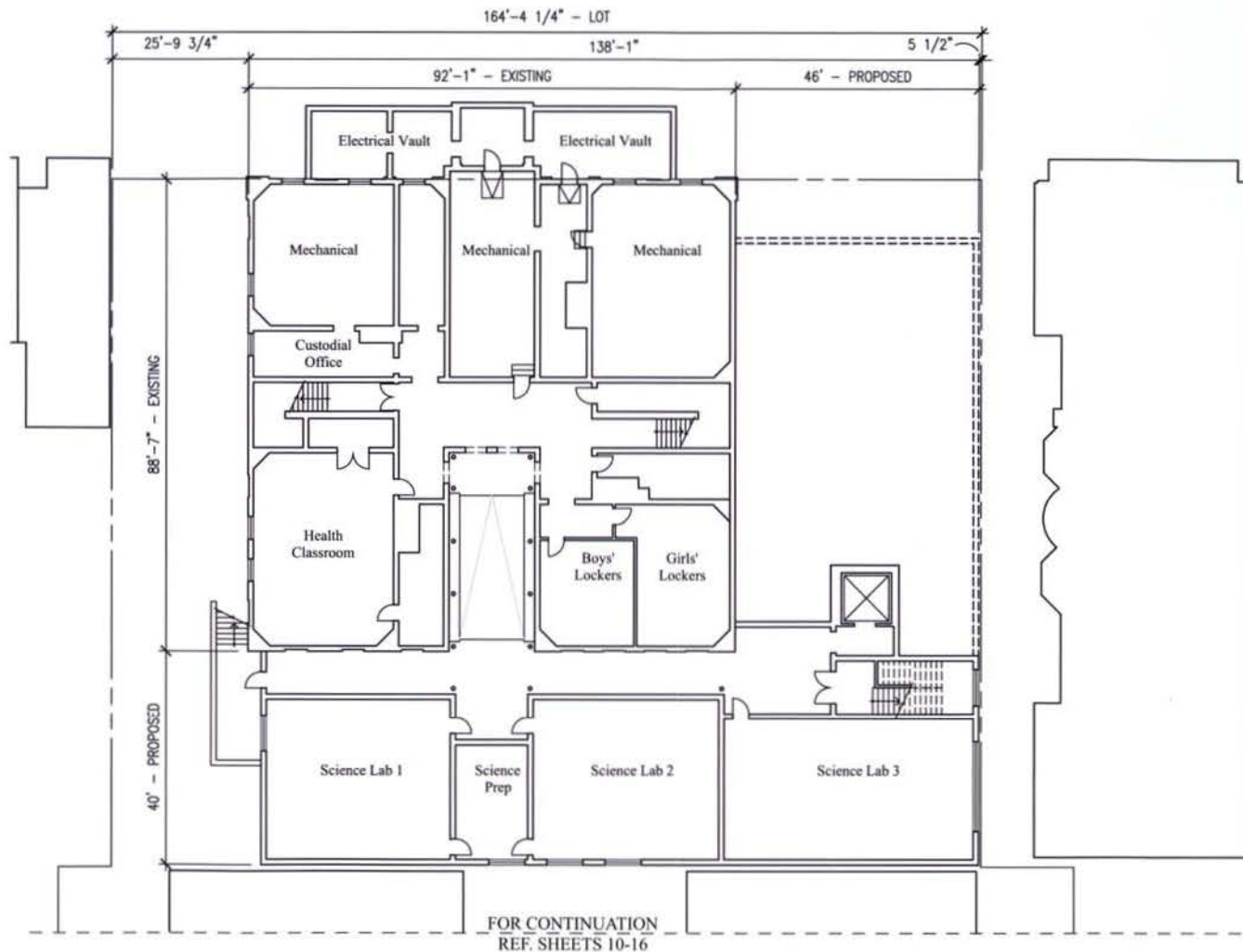
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scale: 1" = 20'-0"



School Without Walls: Cellar Plan

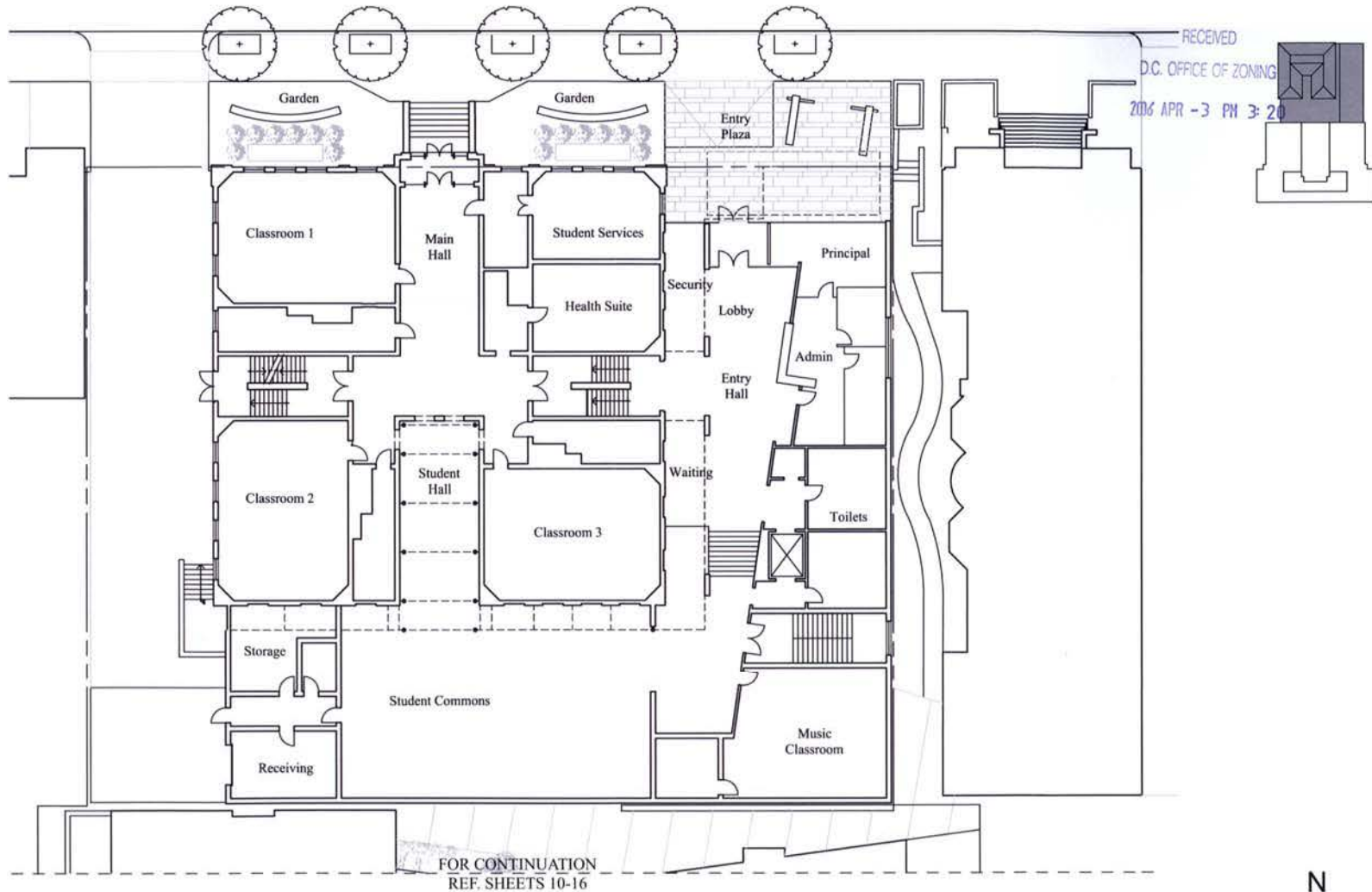
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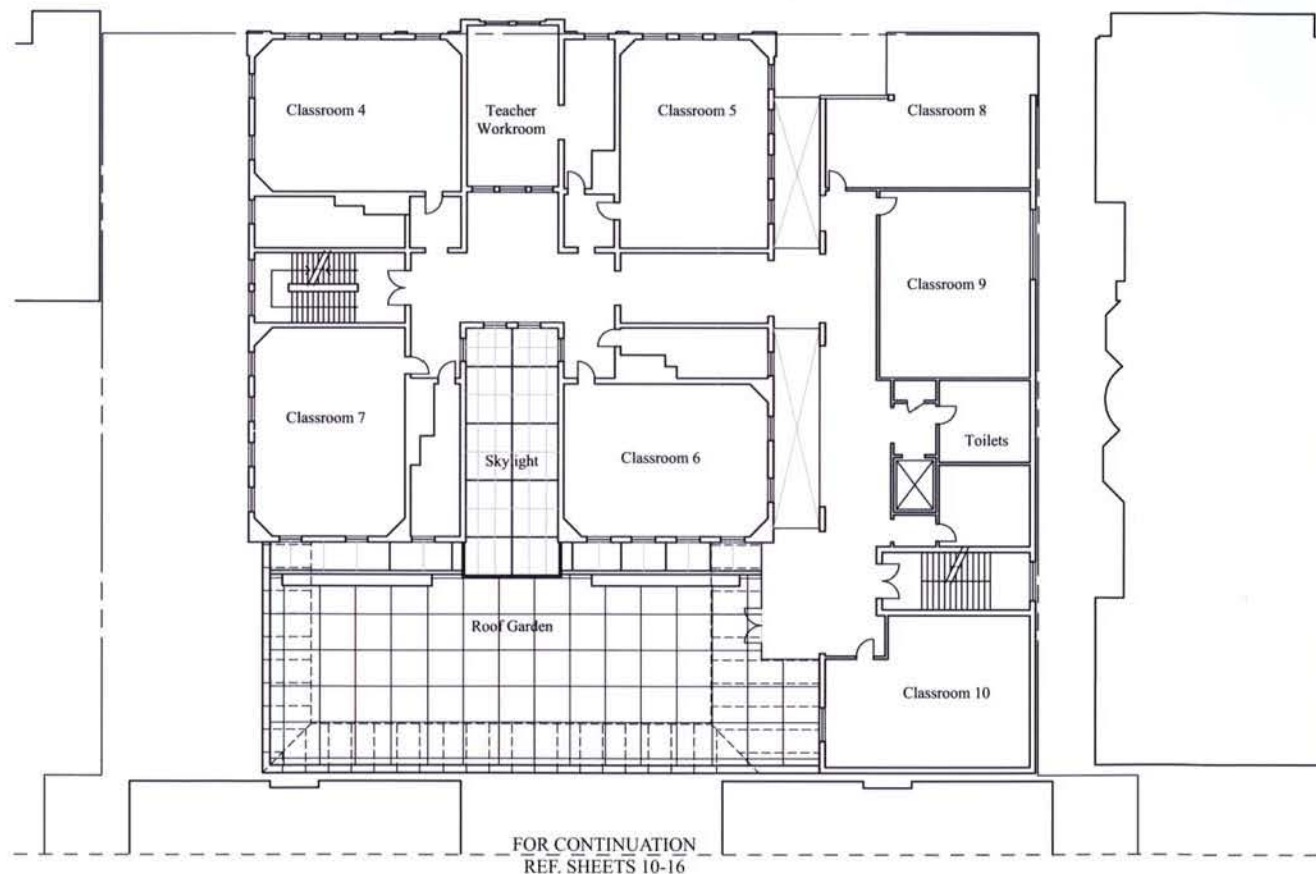
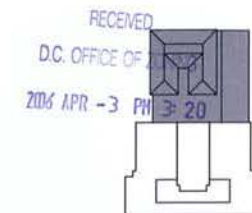
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School Without Walls: First Floor Plan

date: 04.03.06





scale: 1" = 20'-0"



School Without Walls: Second Floor Plan

date: 04.03.06

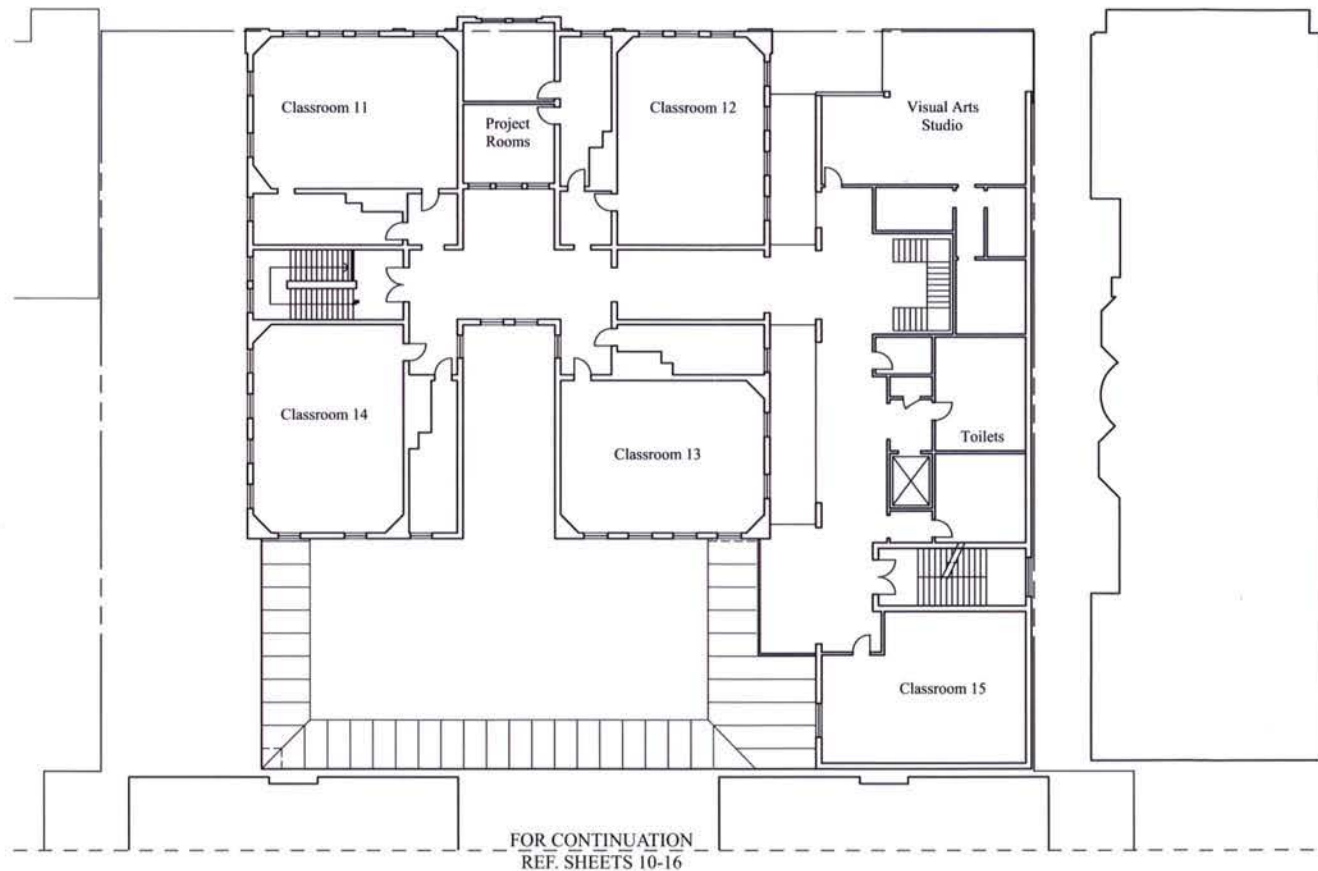
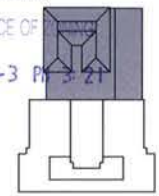


Square 80 PUD Submission

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scale: 1" = 20'-0"



School Without Walls: Third Floor Plan

date: 04.03.06

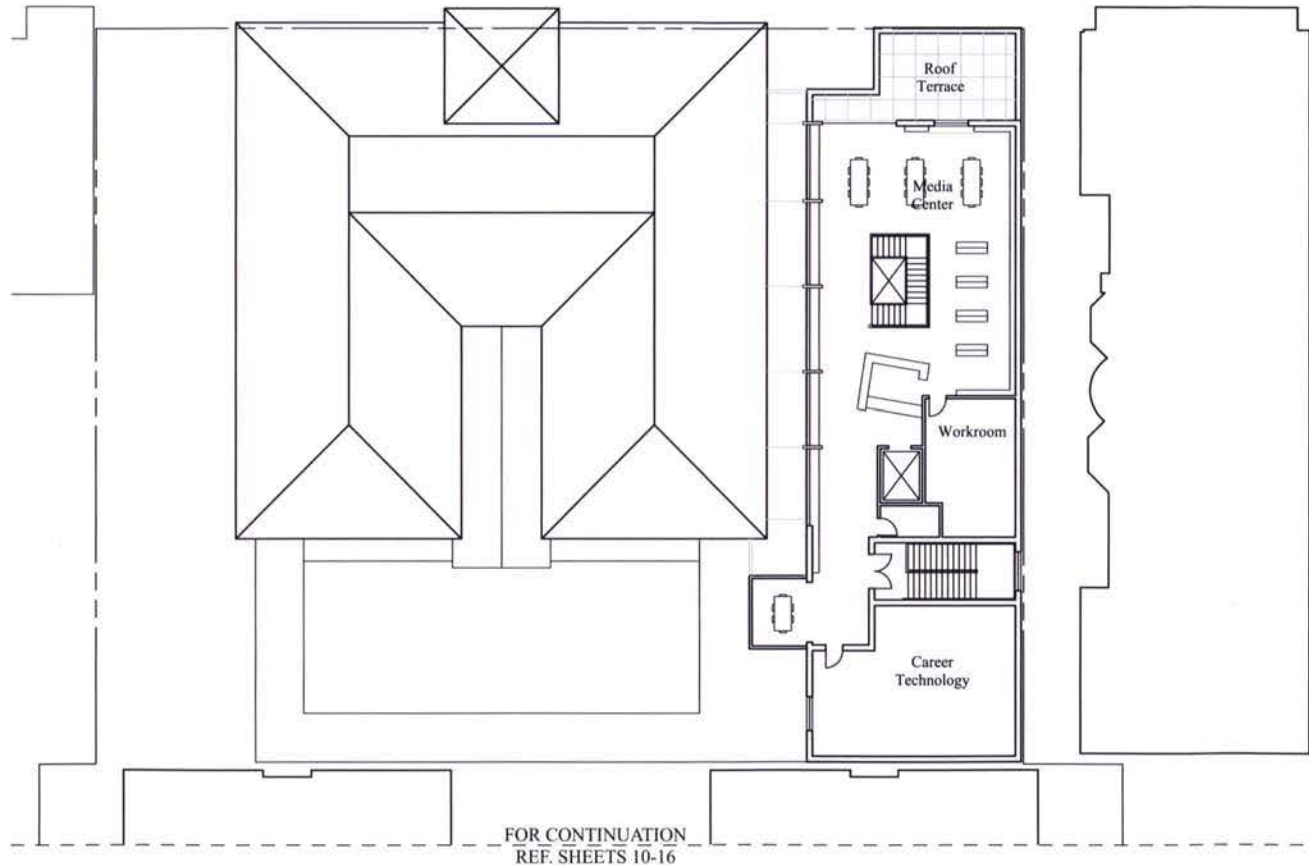
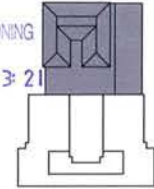


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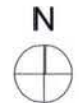
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School Without Walls: Fourth Floor Plan

date: 04.03.06



E.23

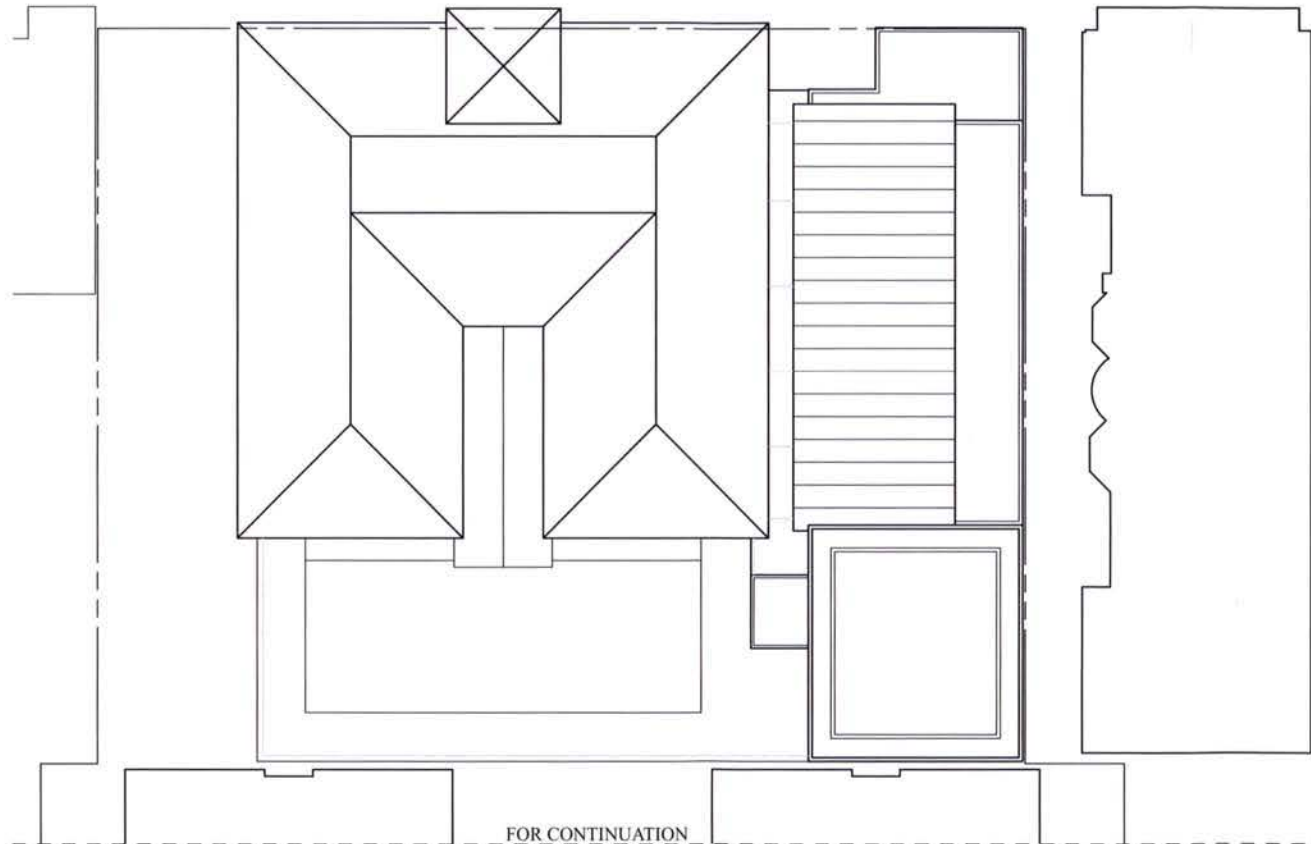
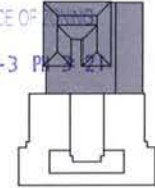


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School Without Walls: Roof Plan

date: 04.03.06



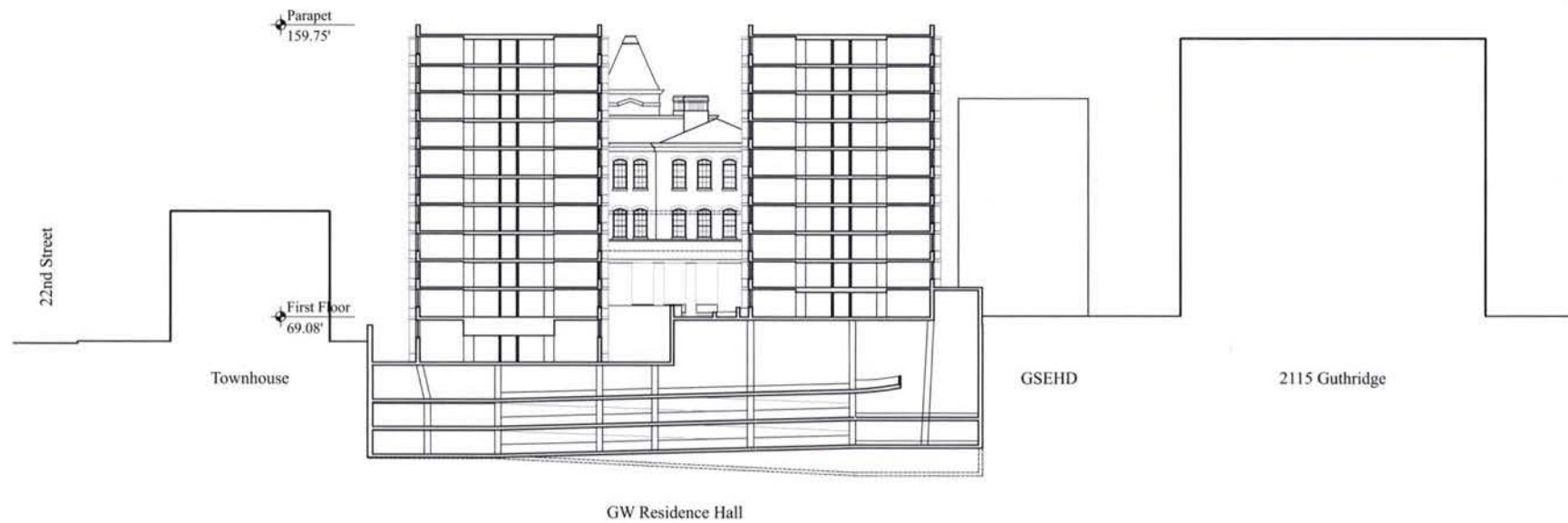
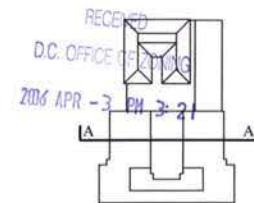
E.24



Square 80 PUD Submission

DMJM | CGS





scale: 1/32" = 1'-0"



Section AA

date: 04.03.06

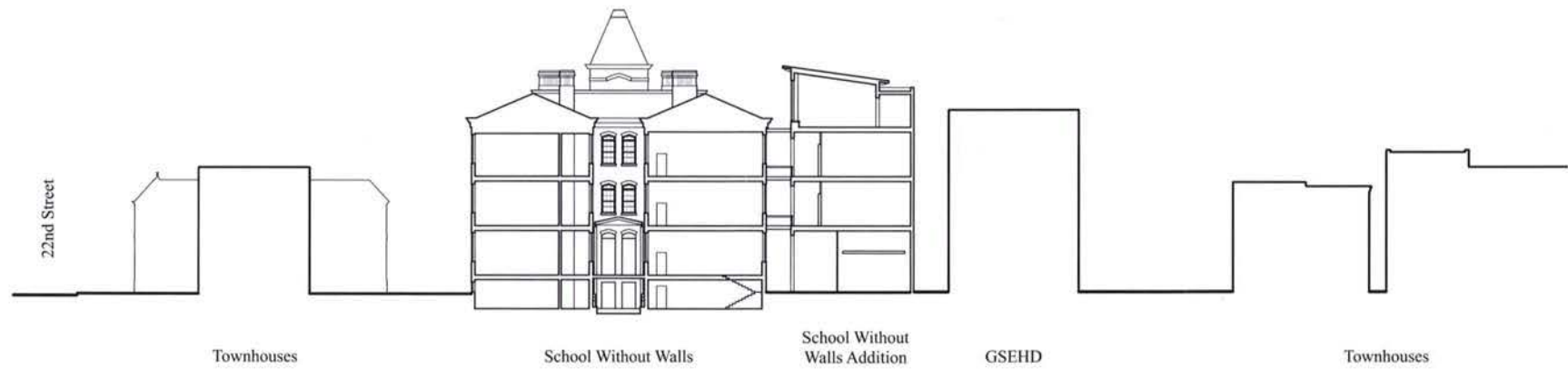
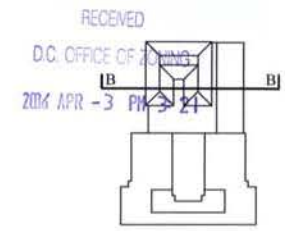
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Square 80 PUD Submission

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Section BB

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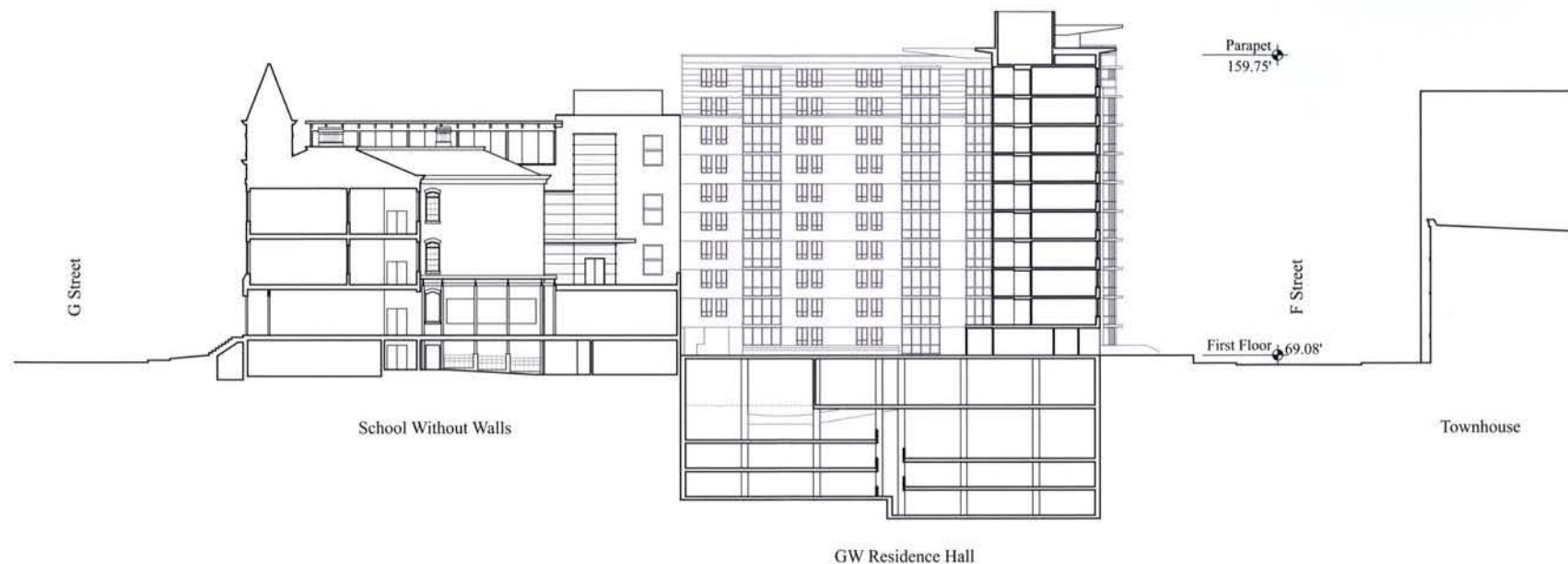
E.26



Square 80 PUD Submission

DMJM | CGS





scale: 1/32" = 1'-0"



Section CC

date: 04.03.06

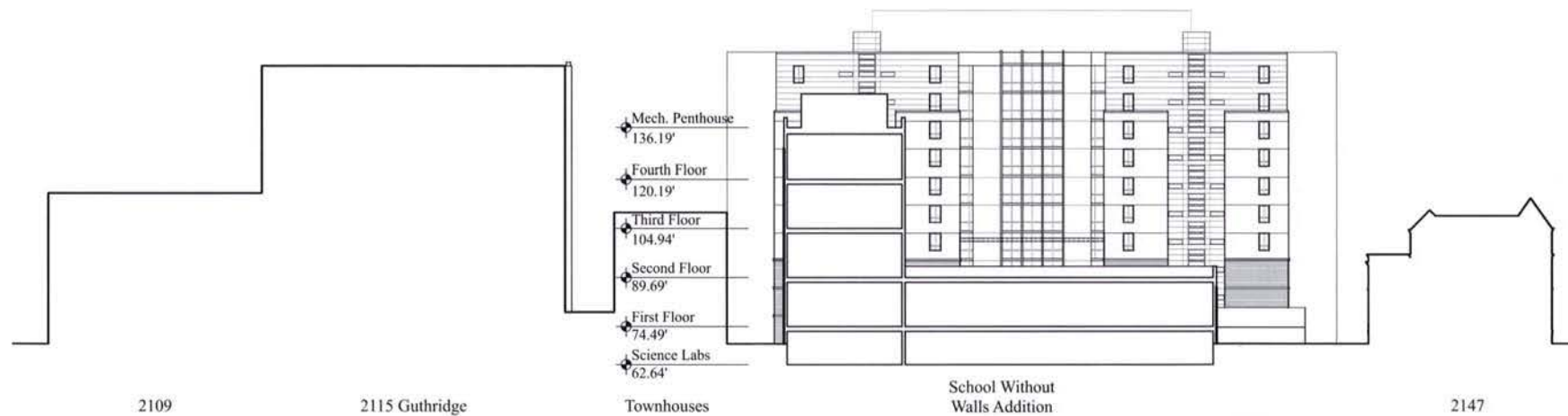
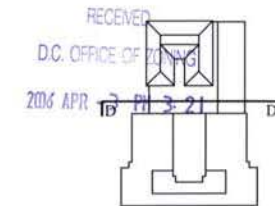
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Square 80 PUD Submission

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Section DD

date: 04.03.06

E.28

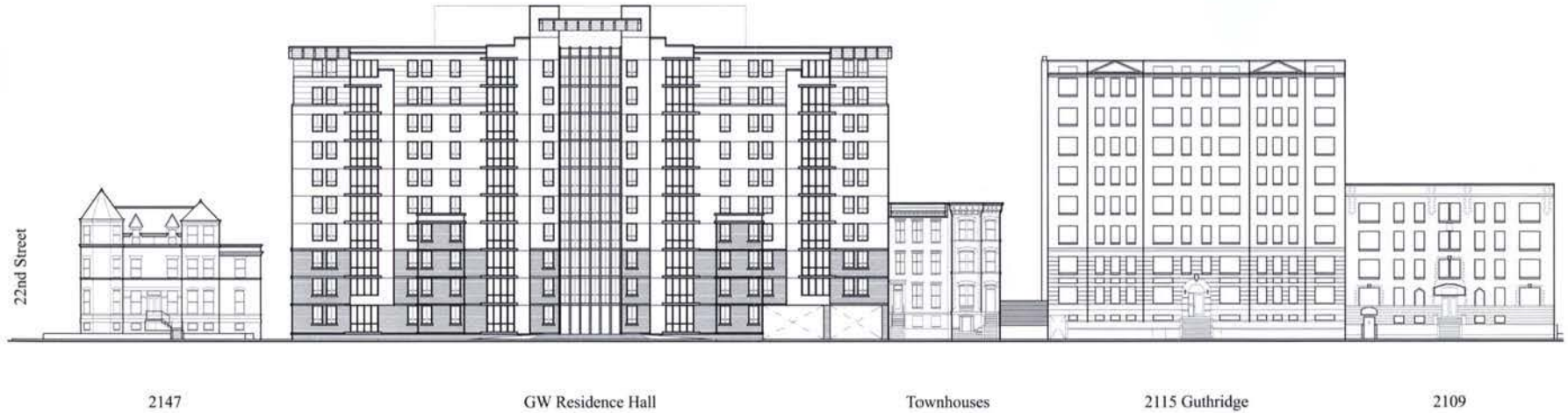
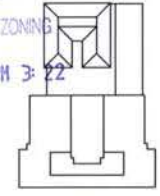


Square 80 PUD Submission

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scale: 1/32" = 1'-0"



F Street Elevation

date: 04.03.06

E.29



Square 80 PUD Submission

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scale:

F Street Elevation - Rendering

date: 04.03.06

E.30



Square 80 PUD Submission

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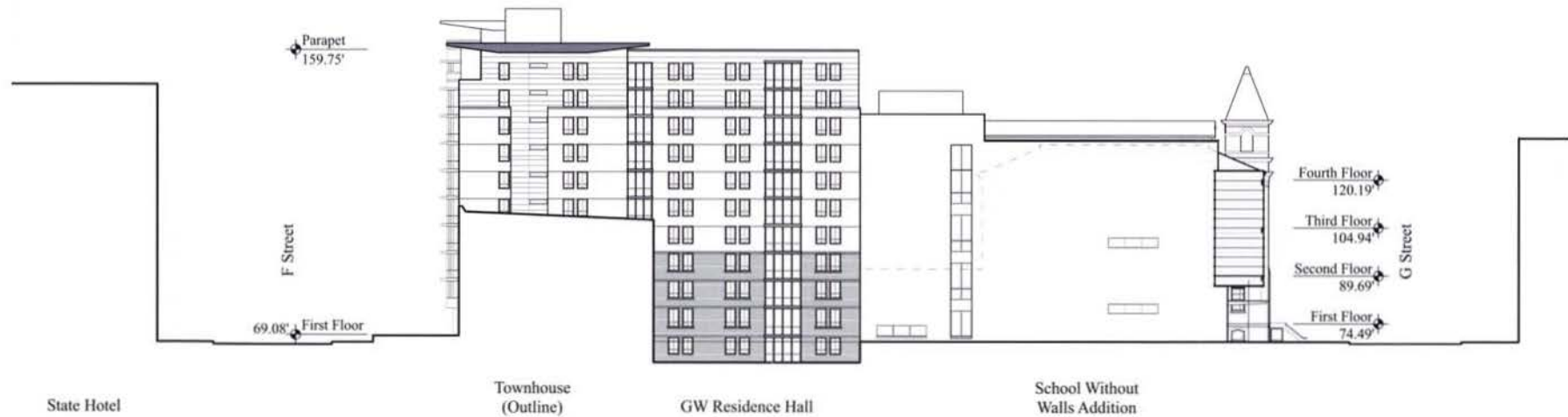
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22nd Street Elevation

date: 04.03.06

E.31



scale: 1/32" = 1'-0"



East Elevation

date: 04.03.06

E.32



Square 80 PUD Submission





Townhouses

GSEHD

School Without
Walls Addition

School Without Walls

Townhouses

scale: 1/32" = 1'-0"



G Street Elevation

date: 04.03.06

E.33



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View from F Street

date: 04.03.06

E.34



Views from G Street

date: 04.03.06

E.35



View North from Intersection of F and 22nd Streets



View Northeast from Intersection of F and 22nd Streets



View East from Intersection of F and 22nd Streets



View Southeast from Intersection of F and 22nd Streets



View North from F Street to Project Site



View North from F Street to Project Site



Existing Adjacent Buildings on F Street



View West from Intersection F and 21st Streets



View East from Project Site



View Southeast from Project Site



View Southwest from Project Site



View West from Project Site

Site Context F Street

date: 04.03.06

E.36



G Street and SWW from East



South facade from F Street



G Street Context



G Street Context



G Street Context



View from West



22nd Street Context - adjacent to site

Site Context G Street

date: 04.03.06

E.37