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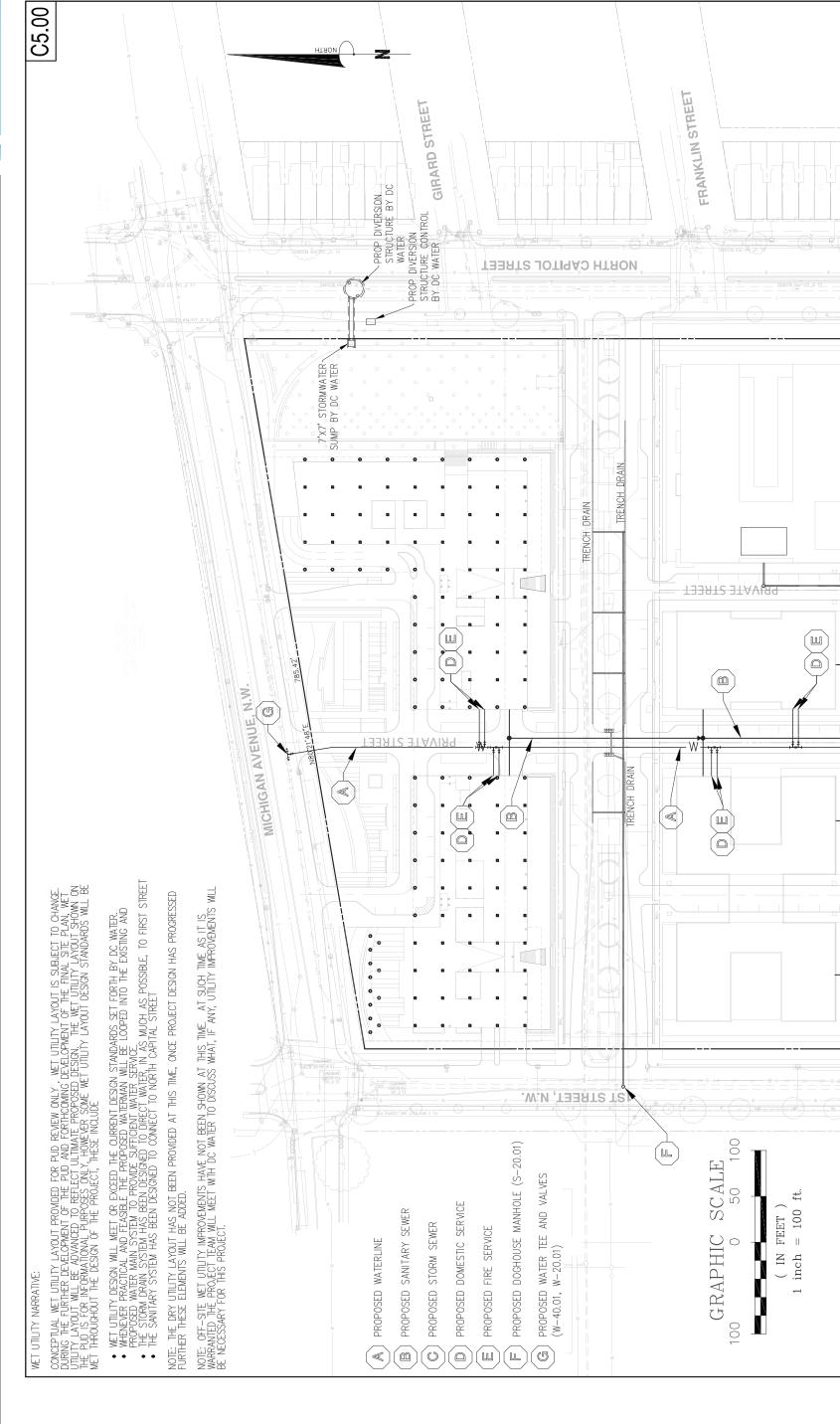
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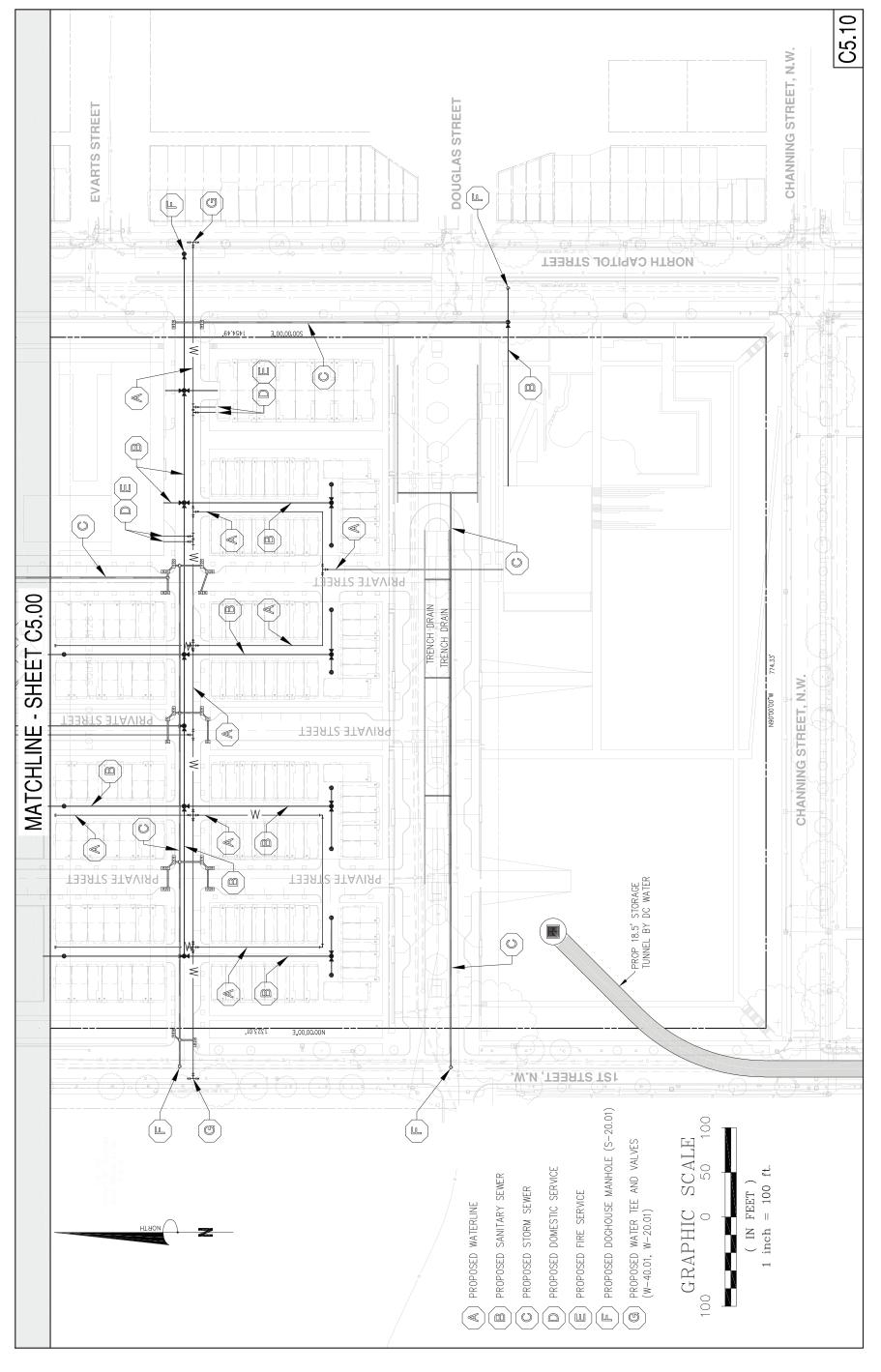


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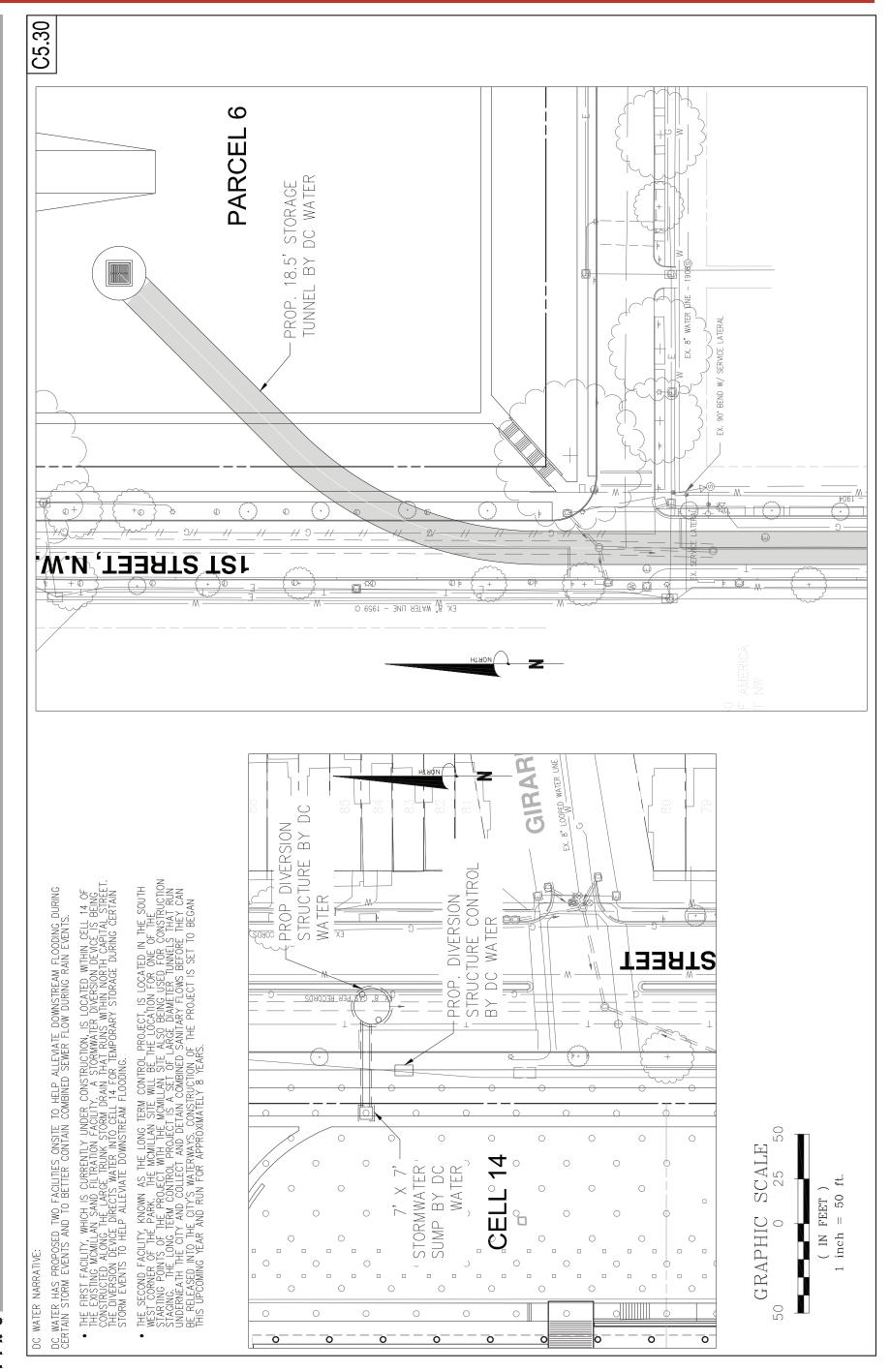




| Type of Use  OFFICE / RETAIL  FUTURE RESIDENTIAL  FUTURE OFFICE / RETAIL  RESIDENTIAL  RESIDENTIAL  RESIDENTIAL  Total  Type of Use  OFFICE / RETAIL  FUTURE RESIDENTIAL  FUTURE RESIDENTIAL  FUTURE RESIDENTIAL  FUTURE RESIDENTIAL  RETAIL  FUTURE RESIDENTIAL  RETAIL  FUTURE RESIDENTIAL  RETAIL  RESIDENTIAL | # of Units | Estimated Total SF  Total SF  23,250  173,000  175,000  175,000  875,000  23,250 | Estimated Water and Sanitary Sewer Usage Chart           Water Usage Estimate         Average Daily Flow PARCEL 1         Flow         PARCEL 1           75,000         200 | Peak Factor   6   6   6   6   6   6   6   6   6 | Peak Flow (GPD)  1,050,000  27,900  464,400  207,600  21,000  21,000  21,000  1,050,000  1,050,000  27,900  464,400  207,600  207,600  207,600  207,600  207,600 |
|---|------------|--|--|---|--|
|   |            |  | Parcel 6   |   |  |
| PARK / COMMUNITY CENTER   | ı          | 17,500   | 200  | 9   | 21,000   |
| FANN COMMONITICENTEN  |            | 7,,300   | Parcel 7   | o .   | 21,000   |
| PUBLIC SPACE  | I          | ı  | ,  | ı   | ı  |
| Total   |            |  |  |   | 2,597,604  |

DC Water Plan

APRIL 11, 2014

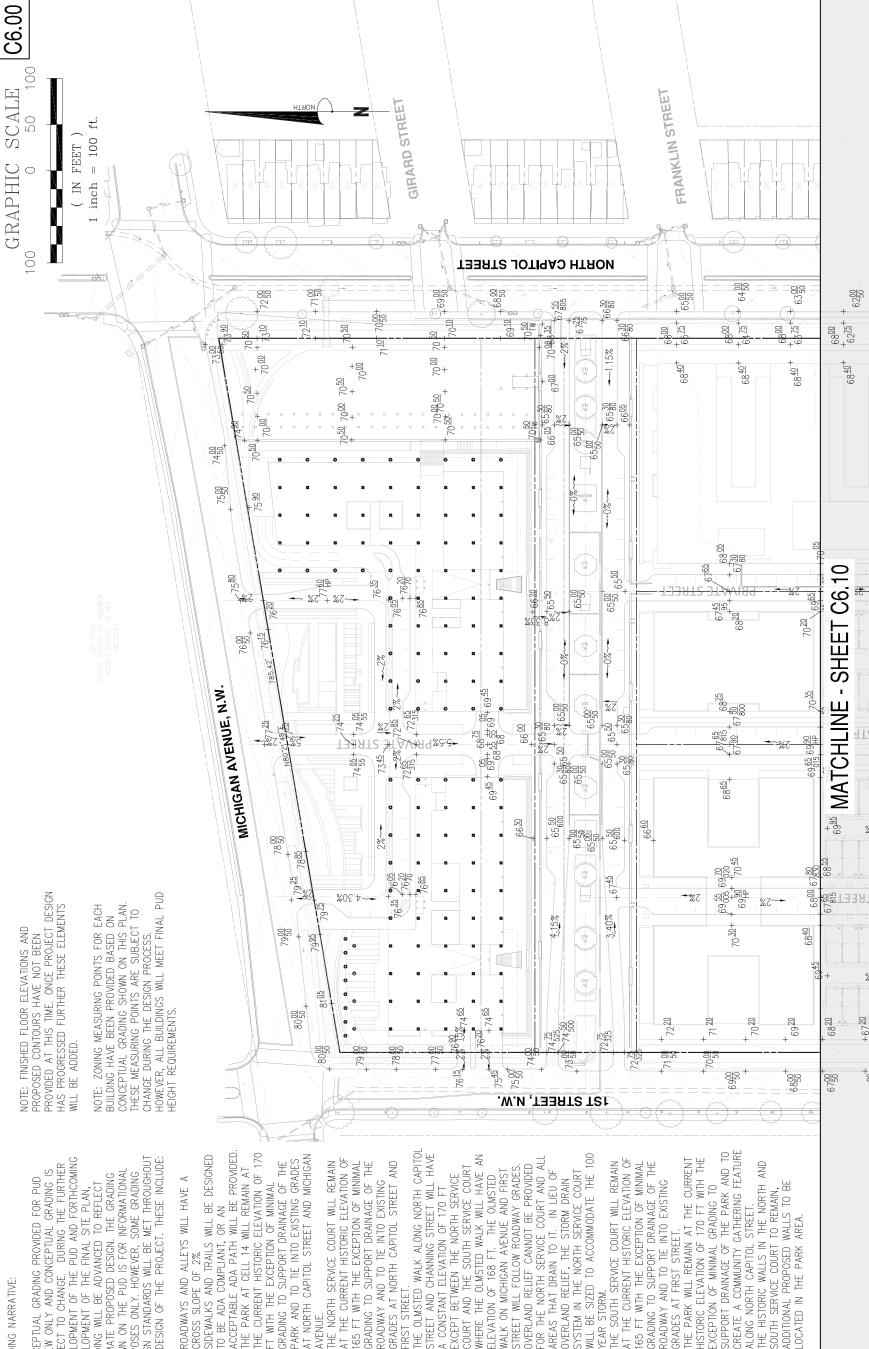


REVIEW ONLY AND CONCEPTUAL GRADING IS SUBJECT TO CHANGE. DURING THE FURTHER DEVELOPMENT OF THE PUD AND FORTHCOMING DEVELOPMENT OF THE FINAL SITE PLAN, GRADING WILL BE ADVANCED TO REFLECT ULTIMATE PROPOSED DESIGN. THE GRADING SHOWN ON THE PUD IS FOR INFORMATIONAL PURPOSES ONLY. HOWEVER, SOME GRADING DESIGN STANDARDS WILL BE MET THROUGHOUT THE DESIGN OF THE PROJECT. THESE INCLUDE: CONCEPTUAL GRADING PROVIDED FOR PUD

- ROADWAYS AND ALLEYS WILL HAVE A CROSS SLOPE OF 2%.
- SIDEWALKS AND TRAILS WILL BE DESIGNED TO BE ADA COMPLIANT, OR AN ACCEPTABLE ADA PATH WILL BE PROVIDED. THE PARK AT CELL 14 WILL REMAIN AT
- THE CURRENT HISTORIC ELEVATION OF 170 FT WITH THE EXCEPTION OF MINIMAL GRADING TO SUPPORT DRAINAGE OF THE PARK AND TO TIE INTO EXISTING GRADES AT NORTH CAPITOL STREET AND MICHIGAN AVENUE.
  - THE NORTH SERVICE COURT WILL REMAIN AT THE CURRENT HISTORIC ELEVATION OF 165 FT WITH THE EXCEPTION OF MINIMAL GRADING TO SUPPORT DRAINAGE OF THE ROADWAY AND TO TIE INTO EXISTING GRADES AT NORTH CAPITOL STREET AND
    - FIRST STREET. THE OLMSTED WALK ALONG NORTH CAPITOL STREET AND CHANNING STREET WILL HAVE A CONSTANT ELEVATION OF 170 FT
      - EXCEPT BETWEEN THE NORTH SERVICE COURT AND THE SOUTH SERVICE COURT WHERE THE OLMSTED WALK WILL HAVE AN ELEVATION OF 168 FT. THE OLMSTED AREAS THAT DRAIN TO IT. IN LIEU OF OVERLAND RELIEF, THE STORM DRAIN SYSTEM IN THE NORTH SERVICE COURT WILL BE SIZED TO ACCOMMODATE THE 100 FOR THE NORTH SERVICE COURT AND ALL OVERLAND RELIEF CANNOT BE PROVIDED WALK ON MICHIGAN AVENUE AND FIRST STREET WILL FOLLOW ROADWAY GRADES.
        - AT THE CURRENT HISTORIC ELEVATION OF 165 FT WITH THE EXCEPTION OF MINIMAL GRADING TO SUPPORT DRAINAGE OF THE ROADWAY AND TO TIE INTO EXISTING YEAR STORM. THE SOUTH SERVICE COURT WILL REMAIN
          - GRADES AT FIRST STREET
- CREATE A COMMUNITY GATHERING FEATURE SUPPORT DRAINAGE OF THE PARK AND TO THE PARK WILL REMAIN AT THE CURRENT HISTORIC ELEVATION OF 170 FT WITH THE EXCEPTION OF MINIMAL GRADING TO ALONG NORTH CAPITOL STREET. THE HISTORIC WALLS IN THE NORTH AND

LOCATED IN THE PARK AREA.

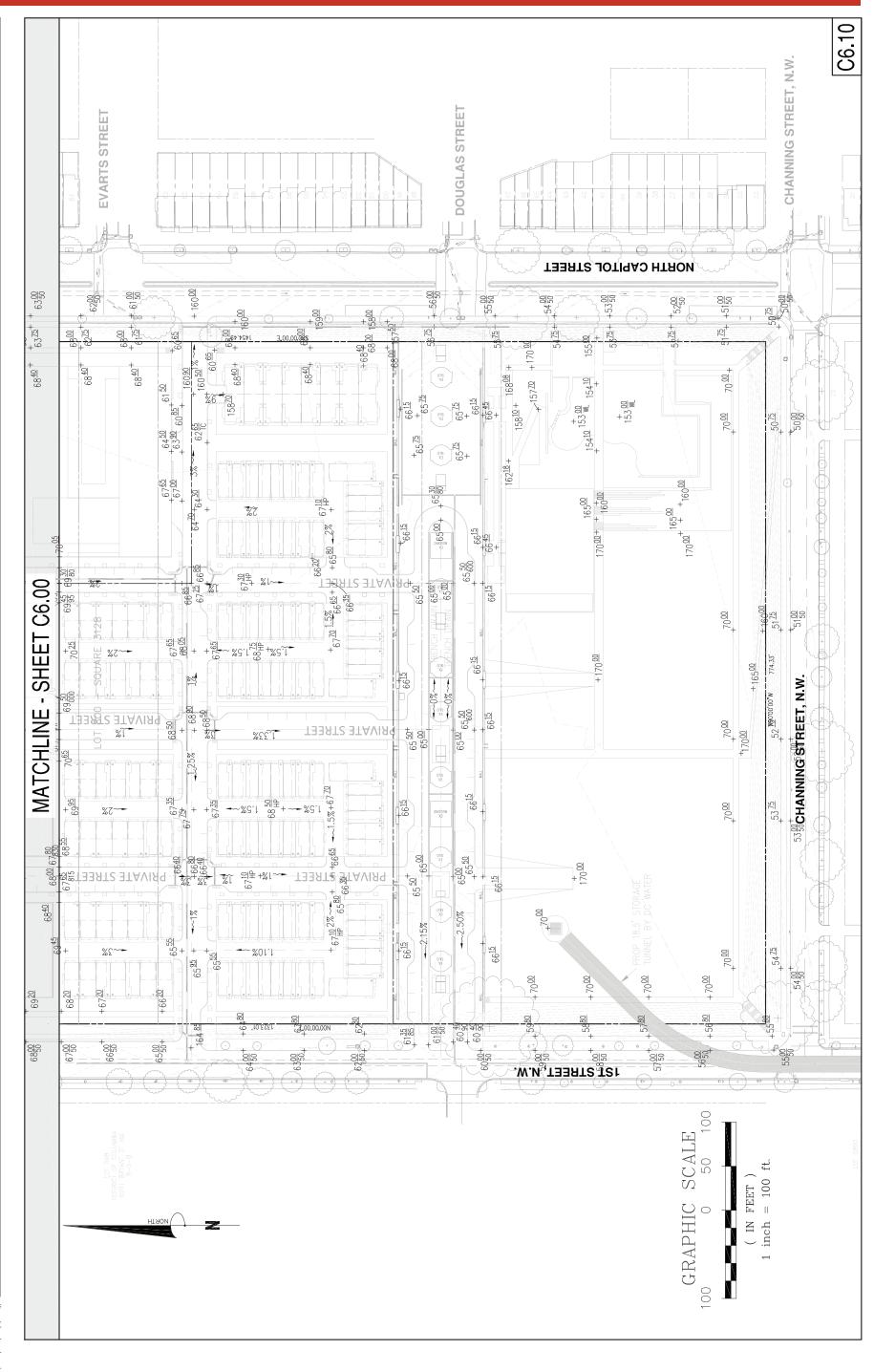
SOUTH SERVICE



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Grading Plan





## STORMWATER MANAGEMENT NARRATIVE:

TO CHANGE. DURING THE FURTHER DEVELOPMENT OF THE PUD AND FORTHCOMING DEVELOPMENT OF THE FINAL SITE PLAN, STORMWATER MANAGEMENT DESIGN WILL BE ADVANCED TO REFLECT ULTIMATE PROPOSED DESIGN. THE STORMWATER MANAGEMENT DESIGN SHOWN ON THE PUD IS FOR INFORMATIONAL PURPOSES ONLY; HOWEVER, SOME STORMWATER MANAGEMENT DESIGN STANDARDS WILL BE MET THROUGHOUT THE DESIGN OF THE PROJECT. THESE INCLUDE: STORMWATER MANAGEMENT PROVIDED FOR PUD REVIEW ONLY; STORMWATER MANAGEMENT DESIGN IS SUBJECT CONCEPTUAL

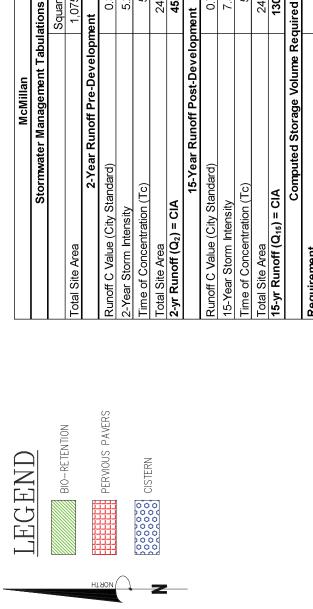
- STORMWATER MANAGEMENT DESIGN WILL MEET OR EXCEED THE NEW DESIGN STANDARDS SET FORTH BY DDOE THE STORMWATER RUNOFF FROM THE INTERNAL STREETS, NORTH SERVICE COURT, SOUTH SERVICE COURT, CELL 14 PARK, AND THE PARK WILL BE TREATED USING LOW IMPACT DEVELOPMENT BMP MEASURES. THE STORMWATER RUNOFF FROM PARCEL 5 WILL BE TREATED USING LOW IMPACT DEVELOPMENT BMP MEASURES THE STORMWATER RUNOFF FROM PARCELS 1, 2, 3, AND 4 WILL BE TREATED USING A COMBINATION OF ON-SITE STORMWATER MANAGEMENT PRACTICES SUCH AS GREEN ROOF AND CISTERNS.

NOTE: ONLY APPROXIMATE AREAS WHERE STORMWATER MANAGEMENT PRACTICES WILL BE LOCATED HAVE BEEN SHOWN ON THE PLAN, THE ACTUAL DESIGN OF THE FACILITIES WILL BE PROVIDED DURING FINAL SITE PLAN.

ТЭЭЯТС ЈОТІЧАО НТЯОИ

W N TEERT, N W

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|  | Square Feet | Acres       |
|--|-------------|-------------|
| Total Site Area                        | 1,075,409   | 24.69       |
| 2-Year Runoff Pre-Development          | nent        |             |
| Runoff C Value (City Standard)         | 0.35        |             |
| 2-Year Storm Intensity                 | 5.28        | in/hr       |
| Time of Concentration (Tc)             | 5           | Minutes     |
| Total Site Area                        | 24.69       | Acres       |
| 2-yr Runoff (Q <sub>2</sub> ) = CIA    | 45.62       | cfs         |
| 15-Year Runoff Post-Development        | ment        |             |
| Runoff C Value (City Standard)         | 0.70        | 1           |
| 15-Year Storm Intensity                | 7.56        | in/hr       |
| Time of Concentration (Tc)             | 5           | Minutes     |
| Total Site Area                        | 24.69       | Acres       |
| 15-yr Runoff (Q <sub>15</sub> ) = CIA  | 130.65      | cfs         |
| Computed Storage Volume Required       | quired      |             |
| Requirement                            | Volui       | Volume (cf) |
| $Vd = 300(Q_{15} - Q_2)*1.25$          | 31          | 31,885      |
| Stornwater Retention Required          | ired        |             |
| Requirement                            | Volui       | Volume (cf) |
| From Title 21 Chapter 5 Section 520.3* | 28          | 87,379      |

| SWM/BMP Practice          | Area (sf) | Volume (cf) |
|---------------------------|-----------|-------------|
| Bio-Retention             | 15,900    | 42,516      |
| Pervious Paver            | 41,750    | 24,458      |
| Cisterns (45% Retention)  |           | 21,197      |
| Total Retention Provided* |           | 88,171      |

200

GRAPHIC SCALE

CHANNING STREET, N.W.

тааятс лотичо нтяои

PROP 18.5' STORAGE TUNNEL BY DC WATER

W.M , TBBRT2 T21

\*Uses DC Stormwater General Compliance Spreadsheet

1 inch = 200 ft.

IN FEET

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MICHIGAN AVENUE, N.W.