TYSONS WEST

FINAL DEVELOPMENT PLAN

FDP-2011-HM-032

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

FEBRUARY 25, 2013
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Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
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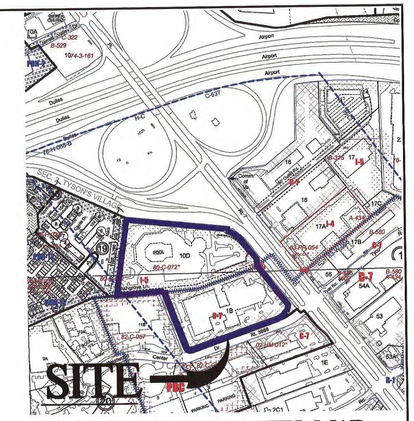
Associated W/ RZ 2011-HM-032
Sheet 1 of 60



TAX MAP/VICINITY MAP
SCALE: 1" = 500'

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SHEET C-1

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NOTES

1. THE PROPERTY THAT IS THE SUBJECT OF THIS REZONING CONSISTS OF PARCELS IDENTIFIED ON THE FAIRFAX COUNTY TAX ASSESSMENT MAP AS 29-1 ((1)) PARCEL 10D, 29-3 ((20)) PARCEL C2, 29-3 ((20)) PARCEL C3. THE PROPERTY IS CURRENTLY ZONED I-5, C-7, HC & SC. THE PURPOSE OF THIS APPLICATION IS TO REZONE THE PROPERTY FROM I-5, C-7, HC & SC TO PTC, HC & SC AND TO DEVELOP THE PROPERTY AS GENERALLY SHOWN ON THE CDP. TYSONS WEST RESIDENTIAL, LLC IS THE OWNER OF PARCELS 1B & C1. JBG/TYSONS HOTEL, LLC IS THE OWNER OF PARCEL 10D.
2. THE HORIZONTAL DATUM IS VIRGINIA STATE GRID NORTH.
3. THE TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY VIKA, INC. AND THE CONTOUR INTERVAL IS TWO (2) FEET.
4. THE BOUNDARY INFORMATION WAS PREPARED BY VIKA, INC.
5. THE PROPERTY IS LOCATED IN THE SOUTH SUB DISTRICT OF THE TYSONS WEST DISTRICT OF THE TYSONS CORNER URBAN CENTER OF THE FAIRFAX COMPREHENSIVE PLAN.
6. PUBLIC WATER AND SANITARY SEWER ARE AVAILABLE AND WILL BE EXTENDED TO SERVE THE DEVELOPMENT.
7. STORMWATER MANAGEMENT AND BMP FACILITIES FOR THE PROPOSED DEVELOPMENT WILL BE PROVIDED ON SITE IN SUCH A MANNER AS TO ALLOW PHASED CONSTRUCTION. AT ALL PHASES OF CONSTRUCTION AN ADEQUATE STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE PUBLIC FACILITIES MANUAL STANDARDS AND DESIGN CRITERIA OF FAIRFAX COUNTY WILL BE PROVIDED. THE APPLICANT THEREFORE RESERVES THE RIGHT TO PROVIDE TEMPORARY STORM WATER MANAGEMENT AND BMP FACILITIES SHOULD THE DEVELOPMENT BE COMPLETED IN PHASES. THESE FACILITIES MAY INCLUDE, BUT ARE NOT LIMITED TO INFILTRATION FACILITIES, RUNOFF REDUCING BMPS, BIORETENTION, VEGETATED ROOFS AND/OR UNDERGROUND VAULTS. THESE TEMPORARY FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO MEET THE CURRENT FAIRFAX COUNTY SWM/BMP STANDARDS IN EFFECT AT THE TIME OF SITE PLAN FOR THE SPECIFIED FACILITY. SEE SHEETS C-10 THRU C-14. NO DRY SWM POND FACILITIES ARE PROPOSED AS PERMANENT FACILITIES.
8. TO THE BEST OF OUR KNOWLEDGE, NO GRAVE SITES OR STRUCTURES MARKING A BURIAL SITE ARE PRESENT ON THE PROPERTY.
9. TO THE BEST OF OUR KNOWLEDGE, NO HAZARDOUS OR TOXIC SUBSTANCES ARE KNOWN TO EXIST ON THE PROPERTY.
10. THE ENTIRE PROPERTY IS LOCATED WITHIN AN RMA ZONE. NO FLOOD PLAIN, R.P.A. OR ENVIRONMENTAL QUALITY CORRIDOR CURRENTLY EXIST ON THIS PROPERTY.
11. DEVELOPMENT WILL COMMENCE UPON COMPLETION OF ALL REQUIRED FAIRFAX COUNTY PLAN PROCESSING AND APPROVALS AND IS ALSO SUBJECT TO MARKET TIMING.
12. THE DEVELOPMENT CONFORMS TO THE PROVISIONS OF ALL APPLICABLE STANDARDS WITH THE EXCEPTION OF WAIVERS AND MODIFICATIONS REQUESTED ON THIS SHEET.
13. LANDSCAPED OPEN SPACE AREAS SHOWN HEREON MAY BE MODIFIED AT THE TIME OF FINAL SITE PLAN SO LONG AS THE RESULTANT DEVELOPMENT IS IN SUBSTANTIAL CONFORMANCE WITH THE QUALITY REPRESENTED ON THE FINAL DEVELOPMENT PLAN.
14. THE BUILDING FOOTPRINTS, GARAGES, PLAZAS, PARKS AND ROADS REPRESENTED HEREON ARE APPROXIMATE. THESE FEATURES MAY BE ALTERED, MOVED AND INCREASED OR DECREASED IN SIZE OR QUANTITY AT THE TIME OF FINAL SITE PLAN WITHOUT THE NEED TO AMEND THE FDP SO LONG AS THE DEVELOPMENT REMAINS IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN AND THE MINIMUM BUILDING SETBACKS FROM THE PROPERTY LINES AS SHOWN ON THE FDP ARE MAINTAINED; THE MINIMUM AND MAXIMUM NUMBER OF RESIDENTIAL UNITS AND THE MINIMUM AND MAXIMUM GROSS SQUARE FOOTAGE FOR NON-RESIDENTIAL USES, AND THE MINIMUM AND MAXIMUM BUILDING HEIGHTS COMPLY WITH THOSE SHOWN ON THE CDP.
15. THIS PLAN PROPOSES NO DEDICATION TO THE PUBLIC RIGHT(S) OF WAY ON LEESBURG PIKE. WESTWOOD CENTER DRIVE WILL HAVE A DEDICATION ADJACENT TO THE PROPERTY WITH THE FDP OF BUILDINGS A AND B IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN ON THE FDP.
16. THE PROPOSED DEVELOPMENT ON THE PROPERTY WILL NOT POSE ANY ADVERSE EFFECT ON ADJACENT OR NEIGHBORING PROPERTIES.
17. THE PROJECT WILL MEET THE PARKING REQUIREMENTS AS SET FORTH IN THE PTC ZONE PER ARTICLE 11 OF THE ZONING ORDINANCE AND SHALL BE PROVIDED IN A COMBINATION OF ABOVE AND BELOW GRADE PARKING STRUCTURES AND SURFACE SPACES. THE NUMBER OF PARKING SPACES PROVIDED HEREON WILL BE ADJUSTED BASED ON THE ACTUAL AMOUNT OF GFA AND MIX OF USES.
18. PROPOSED SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE ZONING ORDINANCE, SPECIAL EXCEPTION OR WITHIN ONE OR MORE COMPREHENSIVE SIGNAGE PLANS AS MAY BE APPROVED BY THE PLANNING COMMISSION.
19. THERE ARE NO SCENIC ASSETS OR NATURAL FEATURES ON THIS SITE WORTHY OF DELINEATION.
20. DEVELOPER RESERVES THE RIGHT TO PROVIDE INTERIM SURFACE PARKING AND/OR POP UP RETAIL IN AREAS OF FUTURE DEVELOPMENT AS THE PHASING OF DEVELOPMENT PROGRESSES, AND SHOWN IN THE ALTERNATIVES OF THE FDP.
21. THERE ARE NO EXISTING UTILITY EASEMENTS HAVING A WIDTH OF TWENTY FIVE (25) FEET OR MORE. THERE ARE NO MAJOR UNDERGROUND UTILITY EASEMENTS LOCATED ON THIS SITE.
22. APPLICANT RESERVES THE RIGHT TO DETERMINE THE FINAL GFA OF EACH BUILDING WITH THE FDP AS NOTED ON THE TABULATIONS ON SHEET C-3.
23. MINOR MODIFICATIONS MAY BE MADE TO THE CONSTRUCTION PLANS FOR THE PROPERTY PER SECTION 16-403 PARAGRAPH 4 OF THE ZONING ORDINANCE.
24. THE PROPERTY MAY BE SUBDIVIDED IN THE FUTURE FOR THE PURPOSE OF SALE, JOINT VENTURE, OR PHASING. ANY PROPOSED SUBDIVISION SHOWN ON CDP/FDP MAY BE MODIFIED ADMINISTRATIVELY BY THE DIRECTOR OF DPW E&S WITHOUT REQUIRING MODIFICATION OF THE CDP PLAT OR PRELIMINARY PLAN.
25. SITE AMENITIES, FEATURES AND FURNISHINGS AND QUALITY OF FURNISHINGS AMENITIES REPRESENTED HEREIN ARE CONCEPTUAL AND, AS SUCH, ARE INTENDED TO REFLECT THE GENERAL THEME AND CHARACTER OF THE PROPOSED DEVELOPMENT. FINAL SELECTION MAY VARY AT THE TIME OF SITE PLAN, BUT WILL BE CONSISTENT WITH THE QUALITY OF THE DESIGN REPRESENTED HEREIN. ADDITIONAL SITE AMENITIES AND FEATURES SUCH AS PLANTERS, GAZEBOS, BENCHES, OTHER SEATING AREAS, PLAZAS, WALKWAYS, TRELLISES, FENCING, CORNICES, WATER FOUNTAINS OR SPECIAL FEATURES, PUBLIC ART, SIGNS, WALLS, LIGHTS, UTILITY AND MAINTENANCE STRUCTURES AND SIMILAR FEATURES NOT REPRESENTED HEREIN MAY BE PROVIDED AS LONG AS THE RESULTANT DEVELOPMENT IS IN SUBSTANTIAL CONFORMANCE WITH THE QUALITY REPRESENTED ON THE FDP.
26. ALL PRIVATE STREETS SHALL BE DESIGNED TO MEET PFM CRITERIA. THE DESIGN SPEED SHALL BASED UPON THE TYSONS ROAD DESIGN STANDARDS.
27. THE EXISTING 22-STORY, 3-STORY & 2-STORY HOTEL STRUCTURES (BUILT IN 1985) ARE TO REMAIN; THE EXISTING PHASE 1 BLOCK 1 RETAIL AND OFFICE BUILDING "D" AND THE EXISTING RETRO-FITTED 6-STORY CONCRETE PARKING STRUCTURE PER APPROVED SITE PLAN #6279-SPV-004-E ARE TO REMAIN.
28. THE PROPERTY IS LOCATED WITHIN THE HC DISTRICT. THE APPLICANT DOES NOT INTEND TO INCLUDE DRIVE-THRUS, FINANCIAL INSTITUTIONS WITH DRIVE THRUS, SERVICE STATIONS OR SERVICE STATION/MINI-MARTS ON THE PROPERTY. FAST FOOD RESTURANTS AND QUICK-SERVICE FOOD STORES MAY BE PROVIDED.
29. A WAIVER OF THE TRANSITIONAL SCREEN AND BARRIER REQUIREMENTS ALONG THE EDGE OF THE PROPERTY THAT ABUTS THE TOLL ROAD WAS NOT REQUESTED/NOT REQUIRED AS WE ARE NOT ON THE EDGE OF THE PTC DISTRICT.
30. PRIVATE DRIVEWAYS SHOWN ON THE CDP SHALL NOT BE CONSIDERED 'SERVICE STREETS', AND SHALL MEET THE TYSONS TRANSPORTATION DESIGN STANDARDS FOR DRIVEWAYS IN TABLE 2.
31. CROSSWALK LOCATIONS INDICATED ON THE CDP ARE CONCEPTUAL, FINAL LOCATIONS SHALL BE DETERMINED AT FINAL SITE PLAN
32. THE FINAL LOCATION AND TYPE OF ACCESSIBLE RAMPS AND STREET ACCESSIBLE PARKING SPACE LOCATIONS SHALL BE DETERMINED AT SITE PLAN.
33. ALL DRIVEWAY ENTRANCES ON PUBLIC STREETS SHALL BE CONSTRUCTED AS VDOT STD CG-13 UNLESS INDICATED OTHERWISE AND AS DETERMINED BY VDOT.
34. ROOT BARRIER SHALL BE PROVIDED IN THE TREE PITS ADJACENT TO PUBLIC STREETS AS DETERMINED BY VDOT AT SITE PLAN.
35. ALL GRADING INDICATED ON THIS CDP IS CONCEPTUAL AND SUBJECT TO CHANGE WITH THE FINAL SITE PLAN.
36. A GRAPHIC DEPICTION OF THE ANGLE OF BULK PLANE FOR THE PROPOSED DEVELOPMENT SITE IS NOT REQUIRED AS THIS DEVELOPMENT IS NOT LOCATED NEAR THE PERIPHERY OF THE TYSONS URBAN CENTER AS DESCRIBED IN SECTION 16-102 OF THE ZONING ORDINANCE.
37. ALL PROPOSED SIGNALS AND SIGNAL MODIFICATIONS ARE SUBJECT TO VDOT REVIEW AND APPROVAL.
38. ALL LANE USE DEPICTED ON THE CDP(EX., INTERIM, AND/OR PLANNED) ARE SUBJECT TO REVIEW AND APPROVAL BY VDOT AT THE TIME OF SITE PLAN AND MAY BE MODIFIED WITHOUT THE NEED FOR PCA, CDPA AND/OR FDPA.
39. THIS PLAN IS INTENDED TO BE USED IN CONJUNCTION WITH THE LAND USE APPROVAL PROCESS ONLY. IT IS NOT AN ENGINEERING CONSTRUCTION DRAWING, AND MINOR DEVIATIONS AND ADJUSTMENTS MAY BE REQUIRED, AND ARE PERMITTED PURSUANT TO ZONING ORDINANCE SECTION 18-204(5), AS PART OF THE FDP AND SITE PLAN APPROVAL PROCESS; HOWEVER, THE FINAL CONSTRUCTION DRAWINGS SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN.
40. THE APPLICANT RESERVES THE RIGHT TO PROVIDE LOADING SPACES IN ADDITION TO THOSE SHOWN HEREON IN THE FDP PROVIDED THEY DO NOT NEGATIVELY IMPACT THE STREETSCAPE SHOWN HEREON OR SUBSTANTIALLY INCREASE THE WIDTH OF THE LOADING ENTRANCE.

NOTE: THIS FDP IS SUBJECT TO ALL ZONING ORDINANCE WAIVERS AND MODIFICATIONS REQUESTED ON APPLICATION RZ-2011-HM-032 (CDP). THE FOLLOWING ZONING ORDINANCE MODIFICATION AND WAIVERS HAVE BEEN REITERATED AS THEY SPECIFICALLY APPLY TO THE BUILDING C FDP.

ZONING ORDINANCE WAIVERS/ MODIFICATIONS REQUESTED

ZONING ORDINANCE ARTICLE 2 – GENERAL REGULATIONS

1. APPLICANT REQUESTS A WAIVER / MODIFICATION OF SECTION 2-506-2 TO ALLOW FOR A PARAPET WALL, CORNICE OR SIMILAR PROJECTION TO EXCEED THE HEIGHT LIMIT ESTABLISHED BY MORE THAN THREE (3) FEET IN ORDER TO SCREEN MECHANICAL EQUIPMENT, AS MAY BE INDICATED ON THE FDP.

ZONING ORDINANCE ARTICLE 6 – PLANNED DEVELOPMENT DISTRICT REGULATIONS

2. APPLICANT REQUESTS A MODIFICATION OF ARTICLE 6-501-7 OF THE ZONING ORDINANCE FOR THE TYSON'S CORNER URBAN CENTER STREETSCAPE DESIGN IN FAVOR OF THAT SHOWN ON THE CDP. SHEET S-5 AND S-5A. SPECIFIC AREAS INCLUDE:
   - A. TO ALLOW A REDUCED BUILDING ZONE ON WESTWOOD CENTER DRIVE TO PERMIT INSTALLATION OF PARALLEL PARKING ADJACENT TO EXISTING PHASE 1 BLOCK 1 BUILDING "D".
   - B. TO ALLOW THE SIDEWALK TO BE PLACED AT THE BACK OF THE CURB FOR A PORTION OF ASHGROVE LANE ADJACENT TO THE EXISTING HOTEL BUILDING "E".
   - C. TO ALLOW A REDUCED STREETSCAPE IN THE IMMEDIATE AREA OF THE EXISTING HOTEL BUILDING "E" ON CORNERSIDE BOULEVARD
   - D. TO ALLOW A REDUCED BUILDING ZONE WIDTH FOR A PORTION OF ROUTE 7 ADJACENT TO BUILDING "C".
   - E. TO ALLOW A PORTION OF REDUCED SIDEWALK WIDTH AND BUILDING ZONE WIDTH FOR A SHORT DISTANCE (+/- 125FT) IN FRONT OF EXISTING PHASE 1 BLOCK 1 BUILDING "D" ON CORNERSIDE BOULEVARD.
   - F. TO ALLOW THE SIDEWALK TO BE PLACED AT THE BACK OF THE CURB FOR A PORTION OF CORNERSIDE BOULEVARD AND ASHGROVE LANE ADJACENT TO URBAN PLAZA "C"
   - G. TO ALLOW THE SIDEWALK TO BE PLACED AT THE BACK OF CURB FOR A PORTION OF CORNERSIDE BOULEVARD ADJACENT TO BUILDING "C" AND POCKET PARK D AND TO ALLOW STREET TREES TO BE PLACED IN ABOVE GRADE PLANTER POTS/STRUCTURES FOR AREAS ALONG CORNERSIDE WHERE THE EXISTING UNDERGROUND GARAGE IS TO REMAIN. PLANTER POTS/STRUCTURES WILL BE IN ACCORDANCE WITH THE TYSONS CORNER URBAN DESIGN GUIDELINES.
   - H. TO ALLOW A REDUCED BUILDING ZONE ON CORNERSIDE BOULEVARD AND PLACEMENT OF THE SIDEWALK AT THE BACK OF THE CURB FOR THE RECONFIGURED CANOPY OF EXISTING BUILDING E.
3. IN ACCORDANCE WITH SECTION 6-505 (7) OF THE ZONING ORDINANCE, APPLICANT REQUESTS A WAIVER OF THE REQUIREMENT TO INDICATE OUTDOOR DINING AREAS SPECIFICALLY ON THE CDP AND FDP. OUTDOOR DINING AREAS MAY BE PROVIDED IN ANY AREA WHERE THE USE INCLUDES DINING ACTIVITY AND WILL BE INDICATED AT SITE PLAN.

ZONING ORDINANCE ARTICLE 10 – ACCESSORY USES, ACCESSORY SERVICES USES, AND HOME OCCUPATIONS

4. AS ALLOWED WITHIN ZONING ORDINANCE SECTION 10-104.3.E APPLICANT REQUESTS A WAIVER OF THE MAXIMUM FENCE HEIGHT FROM SEVEN FEET TO FOURTEEN FEET AROUND ACCESSORY USES / STRUCTURES LOCATED WITHIN THE REAR YARD FOR THOSE AREAS OF FENCING ASSOCIATED WITH ANY PROPOSED SPORTS COURTS AND URBAN PLAZA AREAS AS INDICATED ON THE CDP OR AS MAY BE INDICATED ON A SITE PLAN. LOCATION AND MATERIAL OF FENCE TO BE ESTABLISHED AT SITE PLAN.

ZONING ORDINANCE ARTICLE 11 – PARKING AND LOADING

5. APPLICANT REQUESTS A MODIFICATION OF SECTION 11-202(4) REQUIRING MINIMUM DISTANCE OF FORTY FEET (40') OF A LOADING SPACE IN PROXIMITY TO DRIVE AISLES, TO THAT AS DEMONSTRATED ON THE CDP AND SHOWN ON THE FDP.
6. APPLICANT REQUESTS A WAIVER OF THE MAXIMUM LENGTH OF PRIVATE STREETS AS PROVIDED IN PARAGRAPH 2 OF SECTION 11-302 OF THE ZONING ORDINANCE TO ALLOW PRIVATE STREETS IN EXCESS OF 600 FT. IN LENGTH.
7. PURSUANT TO SECTION 11-201, PARAGRAPH (4) AND SECTION 11-203 OF THE ZONING ORDINANCE, A MODIFICATION OF THE LOADING SPACE REQUIREMENTS FOR MULTI-FAMILY DWELLING UNITS AND OFFICE/COMMERCIAL USE IN FAVOR OF THAT WHICH IS SHOWN ON THE CDP/FDP.
8. APPLICANT REQUESTS A MODIFICATION OF ZONING ORDINANCE SECTION 11-102(12) AND SECTION 6-509(1) TO ALLOW FOR TANDEM SPACES AND VALET SPACES CONTROLLED BY BUILDING MANAGEMENT, FOR RESIDENTIAL AND OFFICE USES TO BE PROVIDED IN ACCORDANCE WITH THE PARKING PLAN SUBMITTED WITH THE FDP.
9. THE APPLICANT REQUESTS A MODIFICATION OF THE PARKING GEOMETRIC STANDARDS OF SECTION 11-102.12 OF THE ZONING ORDINANCE TO ALLOW FOR 75 DEGREE ANGLED PARKING.

ZONING ORDINANCE ARTICLE 13 – LANDSCAPING

10. APPLICANT REQUESTS A MODIFICATION / WAIVER OF INTERIOR PARKING LOT LANDSCAPE REQUIREMENTS (SECTION 13-202-8) FOR EXISTING GARAGES AND SPACES ON PRIVATE STREETS AS ALLOWED PER SECTION 13-202, PARAGRAPH 6, TO THAT SHOWN ON THE CDP AND TO BE SHOWN ON THE FDP. INTERIOR PARKING LOT LANDSCAPING HAS BEEN DEMONSTRATED ON THIS FDP APPLICATION.
11. APPLICANT REQUESTS A MODIFICATION OF PERIPHERAL LANDSCAPE REQUIREMENTS (SECTION 13-203-5) FOR ABOVE GRADE PARKING STRUCTURES AND PARKING ON PRIVATE STREETS AS ALLOWED BY SECTION 13-203, PARA 3, TO THAT SHOWN ON THE CDP AND DESCRIBED BELOW:
    - A. FOR PROPOSED ABOVE GRADE PARKING STRUCTURES: PERIPHERAL LANDSCAPING WILL BE PROVIDED USING TREES WITHIN URBAN STREETSCAPES (PER TYSONS URBAN DESIGN GUIDELINES) WHERE GARAGES ARE ADJACENT TO STREET FRONTAGE AND BY EXISTING TOPOGRAPHIC FEATURES OR OTHER URBAN DESIGN ELEMENTS WHERE GARAGES ARE ADJACENT TO NON STREET FRONTAGE.

ZONING ORDINANCE ARTICLE 16 – DEVELOPMENT PLANS

12. APPLICANT REQUESTS A WAIVER OF ZONING ORDINANCE SECTION 16-403 REQUIRING THE SUBMISSION OF A FINAL DEVELOPMENT PLAN APPLICATION ASSOCIATED WITH THE SUBMISSION OF ALL PUBLIC ROADWAY, AND INFRASTRUCTURE PHASING EXHIBIT IMPROVEMENT PLANS AND INTERIM PARKING SPACES REQUIRED AS SHOWN WITHIN THE CDP AND INDICATED ON THE FDP.

ZONING ORDINANCE ARTICLE 17 – SITE PLAN

13. APPLICANT REQUESTS A WAIVER OF SECTION 17-201-(3)(B) REQUIRING ADDITIONAL INTER-PARCEL ACCESS TO ADJOINING PARCELS (OTHER THAN THOSE SHOWN ON THE CDP) AND AS PROFFERED.
14. APPLICANT REQUESTS A WAIVER AND/OR MODIFICATION OF SECTION 17-201 ALL TRAILS AND BIKE TRAILS IN FAVOR OF THE STREETSCAPE AND ON-ROAD BIKE LANE SYSTEM SHOWN ON THE CDP AND AS PROFFERED.
15. IN ACCORDANCE WITH SECTION 17-0201, APPLICANT REQUESTS A WAIVER OF SERVICE ROAD ALONG ROUTE 7.
16. THE APPLICANT REQUESTS A DETERMINATION OF ZONING ORDINANCE SECTION 17-201 PARAGRAPH (4) REQUIRING ANY FURTHER DEDICATION AND CONSTRUCTION OF WIDENING FOR EXISTING ROADS BEYOND THAT WHICH IS INDICATED ON THE CDP. DEDICATION AND IMPROVEMENTS SHOWN ON THE CDP SHALL BE DEEMED TO MEET ALL COMPREHENSIVE PLAN POLICY PLAN REQUIREMENTS.
17. IN ACCORDANCE WITH ZONING ORDINANCE SECTION 17-201 (7), THE APPLICANT REQUEST THE RIGHT TO ESTABLISH PARKING CONTROL, SIGNS (INCLUDING SPACING AND LOCATION), AND PARKING METERS ALONG PRIVATE STREETS WITHIN AND ADJACENT TO THE DEVELOPMENT IN COORDINATION WITH FCDOT.
18. IN ACCORDANCE WITH ZONING ORDINANCE SECTION 17-201 (12) (13) AND (14), THE APPLICANT REQUESTS THE IMPROVEMENTS TO BE PROVIDED IN A PHASED SEQUENCE AS OUTLINED IN THE CDP AND PROFFERS AND TO BE DETERMINED WITH THE FDP IN ACCORDANCE WITH THE TYSONS URBAN STREET STANDARDS.

PFM WAIVERS/MODIFICATIONS REQUESTED

1. WAIVER OF PFM SECTION 6-0303.8, TO ALLOW STORMWATER MANAGEMENT FACILITIES (SWM AND BMP) TO BE PROVIDED WITHIN UNDERGROUND SYSTEMS WITHIN THE RESIDENTIAL BLOCKS OF THE PROPOSED DEVELOPMENT. (SEPARATE WAIVER FILED 6279-WSWD-001-1)
2. MODIFICATION OF SECTION 7-0802.2 PARKING GEOMETRIC STANDARDS TO ALLOW FOR UP TO A 4% PROJECTION OF STRUCTURAL COLUMNS WITHIN PARKING STRUCTURES INTO THE REQUIRED PARKING STALL AREA. THE PARKING STALLS AFFECTED BY SUCH STRUCTURAL COLUMNS SHALL COUNT TOWARD THE NUMBER OF REQUIRED PARKING SPACES.
3. MODIFICATION OF PFM SECTION 7-0800 TO ALLOW TANDEM/VALET PARKING SPACES, CONTROLLED BY BUILDING MANAGEMENT, AND THAT SUCH SPACES MAY COUNT TOWARD REQUIRED PARKING.
4. MODIFICATION OF SECTION 12-0510 TO PERMIT:
   - A) REDUCTION IN THE MINIMUM PLANTING AREA FROM EIGHT (8) FEET, TO A MINIMUM OF 4.5 FEET IN ORDER FOR TREES TO SATISFY THE TREE COVER REQUIREMENT. REFER TO LANDSCAPE PLANS HEREIN FOR GRAPHIC OF THE PROPOSED PLANTING AREA.
   - B) TREES LOCATED IN EXISTING OR PROPOSED RIGHT-OF-WAY DEDICATION AREAS TO COUNT TOWARD THE 10-YEAR TREE CANOPY REQUIREMENTS.
5. MODIFICATION OF SECTION 12-511 FOR REQUIRED TREE PRESERVATION TARGET AND TEN PERCENT CANOPY COVERAGE ON INDIVIDUAL LOTS / LAND BAYS, TO ALLOW FOR TREE PRESERVATION AND CANOPY TO BE CALCULATED ON THE OVERALL CDP DEVELOPMENT AREA, AS DEMONSTRATED ON THE CDP HEREIN.
6. WAIVER OF SECTION 8-0201.3 REQUIRING TRAILS AND BIKE TRAILS SHOWN ON THE COMPREHENSIVE TRAILS PLAN IN FAVOR OF THE STREETSCAPE AND ON-ROAD BIKE TRAIL SYSTEM SHOWN ON THE CDP.
7. MODIFICATION OF SECTION 12-0601.1B TO PERMIT THE REDUCTION OF THE MINIMUM PLANTER OPENING AREA FOR TREES USED TO SATISFY THE TREE COVER REQUIREMENT, IN FAVOR OF THAT SHOWN ON THE CDP AND AS PROFFERED.
8. MODIFICATION OF SECTION 12-0515.6B TO ALLOW FOR TREES LOCATED ABOVE ANY PROPOSED PERCOLATION TRENCH OR BIO-RETENTION AREAS TO COUNT TOWARDS COUNTY TREE COVER REQUIREMENTS.

THE FOLLOWING PFM WAIVERS MODIFICATIONS 9 THRU 11 ARE REQUIRED FROM THE DIRECTOR TO SUPPORT THE DESIGN ELEMENTS AND PROFFERED COMMITMENTS OF THIS APPLICANT AND CDP. APPLICANT REQUESTS THE BOARD SUPPORT THESE PFM WAIVERS AND MODIFICATION AND DIRECT THE DIRECTOR TO GRANT THESE WAIVERS/MODIFICATIONS AT SITE PLAN.

9. WAIVER OF PFM SECTION 7-0403.4 REQUIRING THE MINIMUM WIDTH OF 30 FEET FOR PRIVATE STREET AND COMMERCIAL ENTRANCES CONNECTING TO VDOT ROADWAYS, AS ALLOWED BY APPROVAL OF THE DIRECTOR OF DPWES AT THE TIME OF SITE PLAN.
10. A MODIFICATION OF THE PFM SECTION 7-0800 TO PERMIT 18 FOOT ALLEYS AND RAMPS FOR VEHICULAR ACCESS AND CIRCULATION IN AREAS INDICATED ON THE CDP WITH NO PARKING.

    PFM SECTION 6 – STORMWATER AND BMP CODE REQUIREMENTS

11. DEVIATIONS / MODIFICATION OF REQUIRED SWM AND BMP CRITERIA BY THE DIRECTOR, DPWES AS OUTLINED IN THE "STORMWATER MANAGEMENT DESIGN PFM DEVIATIONS NARRATIVE" OUTLINED ON STORMWATER MANAGEMENT SHEETS AND AS FOLLOWS:
    - A) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1304.2C TO ALLOW FOR INSTALLATION OF PERMEABLE PAVEMENT SYSTEMS THAT UTILIZE INFILTRATION TO BE CONSTRUCTED ON IN-SITU FILL MATERIAL, PROVIDED FIELD TESTS SHOW ADQUATE INFILTRATION RATES EXIST FOR IN-SITU MATERIAL.
    - B) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1304.2F TO SET THE MINIMUM HORIZONTAL SETBACKS FOR BOTH INFILTRATING AND NON-INFILTRATING SYSTEMS FROM BUILDING FOUNDATIONS BE REDUCED TO ZERO (0) FEET IN ORDER TO FACILITATE INSTALLATION OF PERMEABLE PAVERS IN AN URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
    - C) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1304.4I TO ALLOW UTILIZATION OF INFILTRATION RATES LESS THAN 0.52 IN/HR FOR DESIGN OF INFILTRATION SYSTEMS UTILIZED TO MEET THE COMPREHENSIVE PLAN REQUIREMENT FOR RETENTION OF THE FIRST 1" OF RUNOFF ON-SITE.
    - D) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1306.3F TO ALLOW FOR ANY DETENTION FACILITY LOCATED WITHIN A BUILDING OR GARAGE STRUCTURE TO BE GOVERNED BY BUILDING CODE REQUIREMENTS FOR ACCESS AND MAINTENANCE.
    - E) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1307.2C TO ALLOW FOR INSTALLATION OF BIO-RETENTION FACILITIES THAT UTILIZE INFILTRATION TO BE CONSTRUCTED ON IN-SITU FILL MATERIAL, PROVIDED FIELD TESTS SHOW ADEQUATE INFILTRATION RATES EXIST FOR IN-SITU MATERIAL.
    - F) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1307.2E TO SET THE MINIMUM HORIZONTAL SETBACKS FROM BUILDING FOUNDATIONS BE REDUCED TO ZERO (0) FEET IN ORDER TO FACILITATE INSTALLATION OF BIO-RETENTION SYSTEMS IN AN URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
    - G) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1307.2F TO ALLOW INSTALLATION OF BIO-RETENTION FACILITIES IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
    - H) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1307.2G TO ALLOW FOR THE MAXIMUM DRAINAGE AREAS TO BIO-RETENTION FILTERS UTILIZED FOR RETENTION OF THE FIRST 1" OF RUNOFF BE ELIMINATED IN ORDER TO ACCOMMODATE ROOFTOP RUNOFF PIPED TO PROPOSED STRUCTURES.
    - I) ALL REQUIRED DEVIATIONS OF PFM SECTION 6-1309.2C TO ALLOW INSTALLATION OF TREE BOX FILTERS IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_PP) (_SP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 2 of 60

WORK FORCE HOUSING NOTE:

ALL REQUIREDWORK FORCE DWELLING UNITS SHALL BE PROVIDED ON-SITE AS OUTLINED IN THE PROFFERS.

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VIKA VIRGINIA LLC
8180 GREENSBORO DRIVE SUITE 200 ■ TYSONS CORNER, VIRGINIA 22102
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W W W . V I K A . C O M

TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

NOTES AND WAIVERS

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: N/A

PROJECT/FILE NO. VV7405D

SHEET NO. C-2

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Site Tabulations

Existing Zoning:	I-5, C-7, HC, SC
Proposed Zoning:	PTC, HC, SC
Site Area:	697,858 SF (16.0206 AC)
Area of Density Cre dit:	1,333 SF (0.0306 AC)
Total Area for Density Calculations:	699,191 SF (16.0512 AC)
Proposed Right-of-Way Dedication for Ramp w/o Density Credit	45,864 SF (1.0488 AC)
Total Area for Density Calculations:	653,507 SF (15.0025 AC)

SEE SHEET C-5 FOR AREA OF DENSITY CREDIT

Property Tabulation (FDP Application Area)

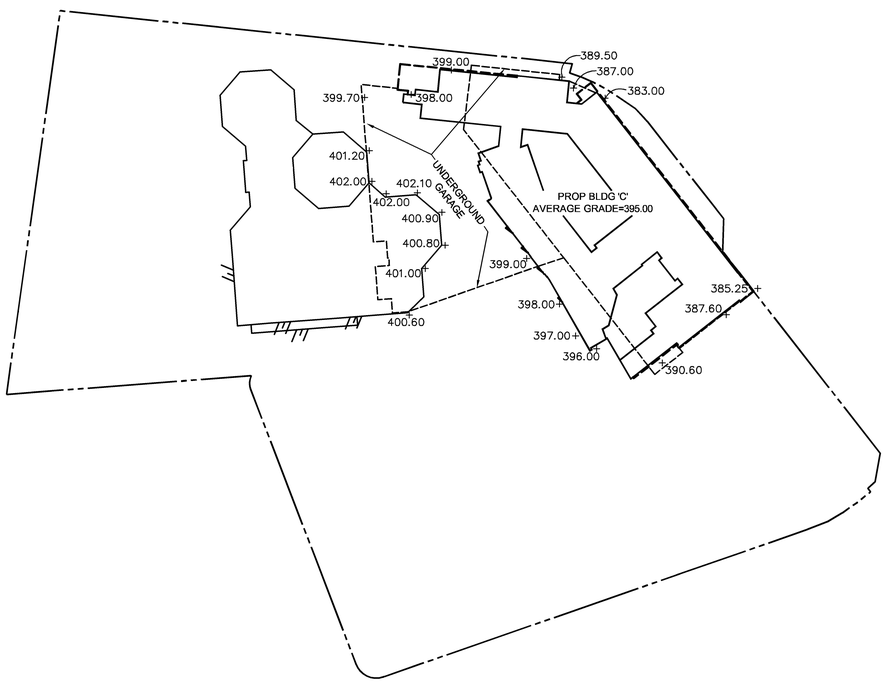
Tax Map ID	Zoning	Land Area (SF)
29-3 ((20)) C2	C-7, HC, SC	138,512
29-3 ((20)) C3	C-7, HC, SC	168,870
29-1 ((1)) 10D	I-5, HC, SC	390,476
Total		697,858

OVERALL TABULATION

Building	Use	CDP GFA	FDP GFA	Site Plan GFA
A	Office	205,000 - 380,000		
	Retail	5,000 - 15,000	0 - 14,800	
	Total	**210,000 - 395,000**	**0 - 14,800**	
B	Residential	202,000 - 300,000		
	Retail	8,000 - 35,000	0 - 8,000	
	Total	**210,000 - 335,000**	**0 - 8,000**	
C	Residential	275,000 -400,000	300,000 -400,000	
	Retail	15,000 - 50,000	15,000 - 50,000	
	Total	**290,000 - 450,000**	**315,000 - 450,000**	
Ex-D	Retail	153,373	153,373	153,373
	Office	28,768	28,768	28,768
	Total	**182,141**	**182,141**	**182,141**
Ex-E	Hotel	430,820	430,820	425,823
	Total	**430,820**	**430,820**	**425,823**
TOTALS	**Overall**	**1,244,983 - 1,792,961**	**927,961 - 1,085,761**	**607,964**
	Office	233,768 - 408,768	28,768	28,768
	Residential	477,000 - 700,000	300,000 - 400,000	
	Retail	181,373 - 253,373	168,373 - 226,173	153,373
	Hotel	430,820	430,820	425,823

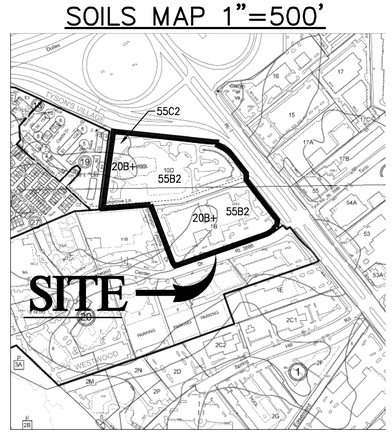
Intensity Tiers and FAR

Intensity Tiers	Area Used for Density Calculations	GFA	FAR
⅛ - ¼ mile	362,274	1,221,141	3.37
¼ - ½ mile	247,213	533,820	2.16
½ - ½ mile	44,020	38,000	.86
TOTAL	**653,507**	**1,792,961**	**2.75**



AVERAGE GRADE EXHIBIT
BUILDING 'C'

SOILS MAP 1"=500'



Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 3 of 60

FDP DEVELOPMENT TABULATIONS

Building	Building Height [1] Min	Max	Shown	Range of Stories [2]	Use	Minimum/Maximum GFA by Use	Minimum/Maximum Building GSF	Dwelling Unit Range	WDUs [4]	Hotel Rooms	Required Parking <1/4 mile [4] Minimum	Maximum	Required Parking 1/4- 1/2 mile[5] Minimum	Maximum	Total Required Parking [5]	Loading Spaces Provided [6]
IA1/IA2	16'	40'		1 - 2			**0 - 14,800**								**0 - 59**	
					Retail	0 - 14,800 [3]					0	59			0 - 59	
IB1/IB2	16'	40'		1 - 2			**0 - 8,000**								**0 - 18**	
					Retail	0 - 8,000 [3]					0	18			0 - 18	
C	50'	95'	85'	5 - 6			**315,000 - 450,000**								**320 -847**	2
					Residential	300,000 - 400,000		300 - 400	60 - 80		195 - 264	275 -372	125 - 163	159 -205	320 -577	
					Retail	15,000 - 50,000					0	60 -270			0 - 270	
Ex-D			95'	6			**182,141**								**0 - 948**	5
					Retail	153,373					0	890			0 - 890	
					Office	28,768					0	58			0 - 58	
Ex-E			225'	22			**430,820**								**0 - 473**	2
					Hotel	430,820				450			0	473		
TOTALS							**927,961 - 1,085,761**	**300 - 400**	**60 - 80**	**450**	**195 - 264**	**1,360 - 1,667**	**125 - 163**	**632 - 678**	**320 - 2,345**	**9**
					Office	28,768										
					Residential	300,000 - 400,000										
					Retail	168,373 - 226,173										
					Hotel	430,820										

[1] Building heights shown are conceptual and may be adjusted provided the adjusted height remains within the minimum and maximum heights provided. Building heights are measured from average grade; the average grade is estimated at 395' for Building C, but may change with final design. Building heights exclude penthouses. Penthouses may be provided as set forth in Section 2 506 and shall not exceed 20 feet for Building C.

[2] The ranges of stories shown are conceptual and may be adjusted provided the maximum building heights are not exceeded.

[3] The retail GFA represents retail uses, including pop-up retail structures, that may be provided on the A/B block on prior to development of Buildings A and/or

PARKING RATE TABLE

Primary Use	Parking Permitted 1/8 to 1/4 Mile to Metro Station Entrance Minimum	Maximum	Parking Permitted 1/4 to 1/2 Mile to Metro Station Entrance Minimum	Maximum
Office	0	2.0/1000 GFA	0	2.2/1000 GFA
Retail	0	6/1000 GFA, excluding the first 5,000 GFA	0	6/1000 GFA, excluding the first 5,000 GFA
Multi-family Residential				
0-1 BR	1/DU	1.3/DU	1.1/DU	1.4/DU
2 BR	1/DU	1.6/DU	1.35/DU	1.7/DU
Hotel	0	1/key	0	1.05

[4] The number of WDUs to be provided are estimated and will be calculated at the time of site plan based on the number of units to be constructed, the policies set forth in the Comprehensive Plan and the Tysons Corner Urban Center Workforce Dwelling Unit Administrative Policy Guildeines.

[5] Parking requirements were calculated utilizing the rates set forth in Section 6-509 of the Zoning Ordinance, which is restated for the primary uses proposed. Residential parking was estimated based on an average mix of 64% 0-1 bedroom units and 36% 2-bedroom units. At the time of site plan, the specific uses, number of units, mix of bedroom types and specific parking will be determined. The Applicant reserves the right to provide more or less parking with each building at the time of site plan provided the maximum parking rates set forth in Section 6-509 are not exceeded at the build-out of the overall development.

[6] Additional loading spaces may be provided as identified at the time of final site plan provided such additional spaces do not negatively impact the streetscape or substantially increase the width of the loading entrances.

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

TABULATIONS

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES. PCC | DWN. RMC

SCALE: N/A

PROJECT/FILE NO. VV7405D

SHEET NO. C-3

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DULLES AIRPORT TOLL ROAD – ROUTE 267
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)

1/4 MILE

1/3 MILE

1/8 MILE

EXISTING BUILDING "E"

PROPOSED BUILDING "C"

EXISTING BUILDING "D"

CORNERSIDE BOULEVARD
(PRIVATE STREET)

ASHGROVE LANE
(LOCAL STREET)

FUTURE STREET
(PRIVATE STREET)

CORNERSIDE BOULEVARD
(LOCAL STREET)

LEESBURG PIKE – ROUTE 7
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)
(POSTED SPEED: 35 MPH)
(BOULEVARD)

TYCO ROAD
(COLLECTOR)

SHERATON TYSONS DRIVE
(60' PUBLIC RIGHT-OF-WAY)
(AVENUE WITH ULTIMATE RAMP)

WESTWOOD CENTER DRIVE–ROUTE 3888
(61' PUBLIC RIGHT-OF-WAY)
(POSTED SPEED: 25 MPH)
(COLLECTOR)

TYSONS WEST STATION

METRO STATION

PARKING ENTRANCE ABOVE

TRASH DUMPSTERS
RECYCLING AREA
WITH DUMPSTERS
PROP RET WALL

BUILD TO LINE

VA STATE
GRID NORTH
(VSC 83)

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 4 of 60

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

AREA METRO CONTEXT PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013

DATE: FEBRUARY 25, 2013	
DES. PCC	DWN. RMC
SCALE: 1"=60'	
PROJECT/FILE NO. VV7405D	
SHEET NO. C-4	

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NOTES:

1. PLEASE NOTE THE EXISTING CONDITIONS SHOWN ON THIS SHEET IS A COMPILATION OF EXISTING FIELD SURVEYS PERFORMED BY VIKA AS WELL AS PROPOSED/APPROVED SITE PLAN CONDITIONS APPROVED BY FAIRFAX COUNTY AS PART OF SITE PLAN # 6279-SPV-004-E.

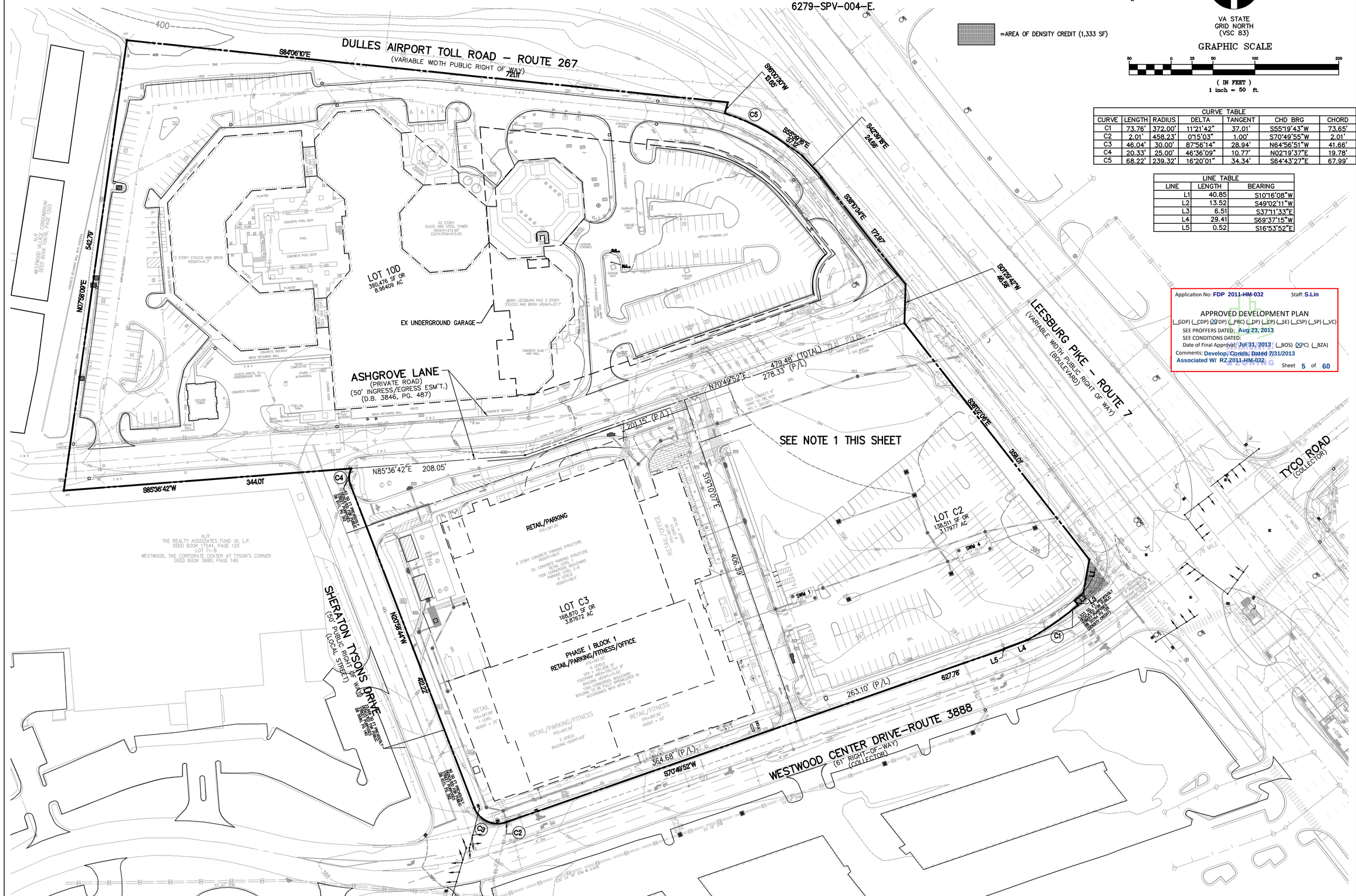
=AREA OF DENSITY CREDIT (1,333 SF)

VA STATE GRID NORTH (VSC 83)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHD BRG	CHORD
C1	73.76'	372.00'	11°21'42"	37.01'	S55°19'43"W	73.65'
C2	2.01'	458.23'	0°15'03"	1.00'	S70°49'55"W	2.01'
C3	46.04'	30.00'	87°56'14"	28.94'	N64°56'51"W	41.66'
C4	20.33'	25.00'	46°36'09"	10.77'	N02°19'37"E	19.78'
C5	68.22'	239.32'	16°20'01"	34.34'	S64°43'27"E	67.99'

LINE TABLE		
LINE	LENGTH	BEARING
L1	40.85	S10°16'08"W
L2	13.52	S49°02'11"W
L3	6.51	S37°11'33"E
L4	29.41	S69°37'15"W
L5	0.52	S16°53'52"E

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032

ZONING

Sheet 5 of 60

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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

EXISTING CONDITIONS PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=50'

PROJECT/FILE NO. V7405A

SHEET NO. C-5

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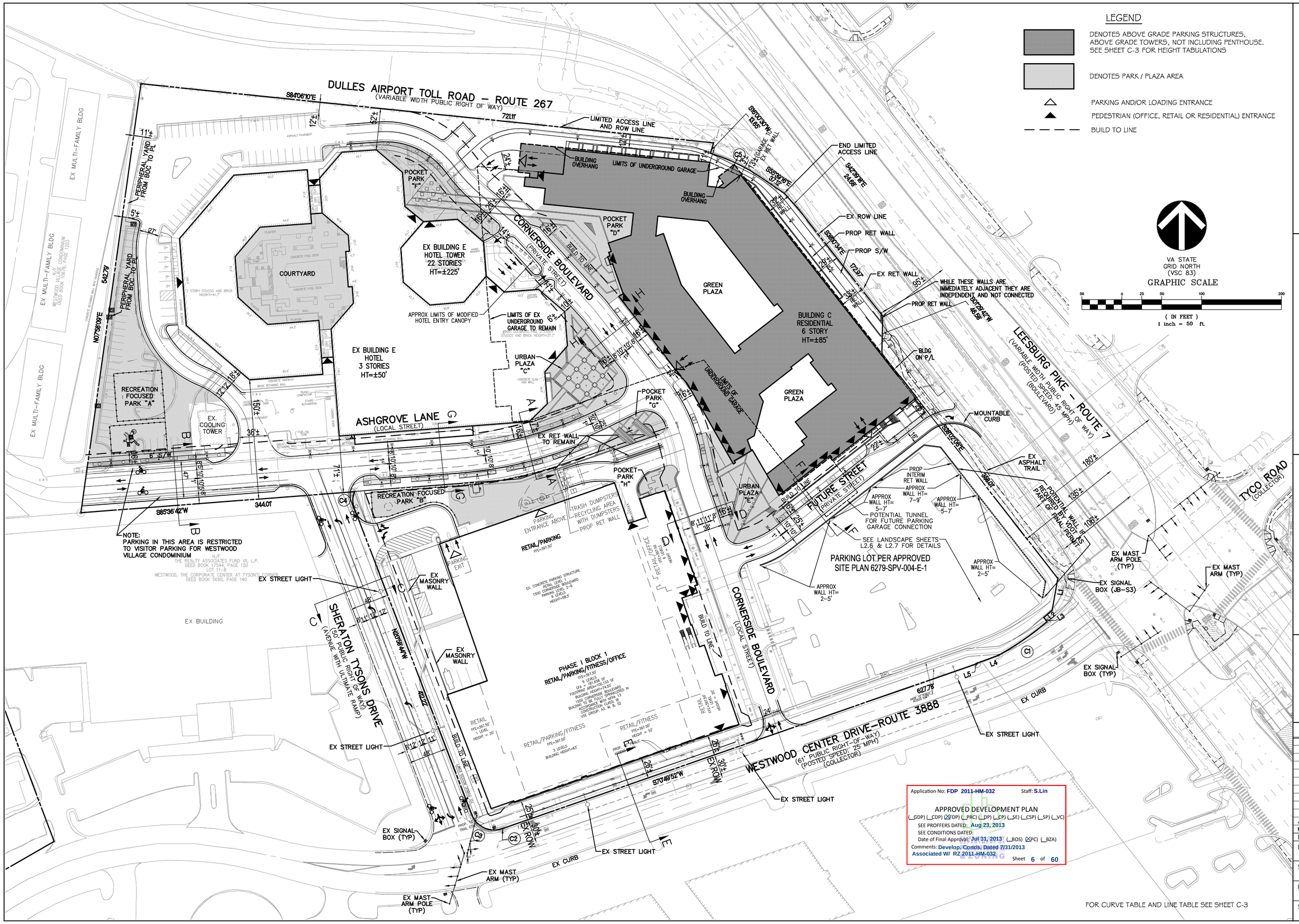

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

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Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 6 of 60

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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

FINAL DEVELOPMENT PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013

DATE: FEBRUARY 25, 2013	
DES. PCC	DWN. RMC
SCALE: 1"=50'	
PROJECT/FILE NO. VV7405D	
SHEET NO. C–6	

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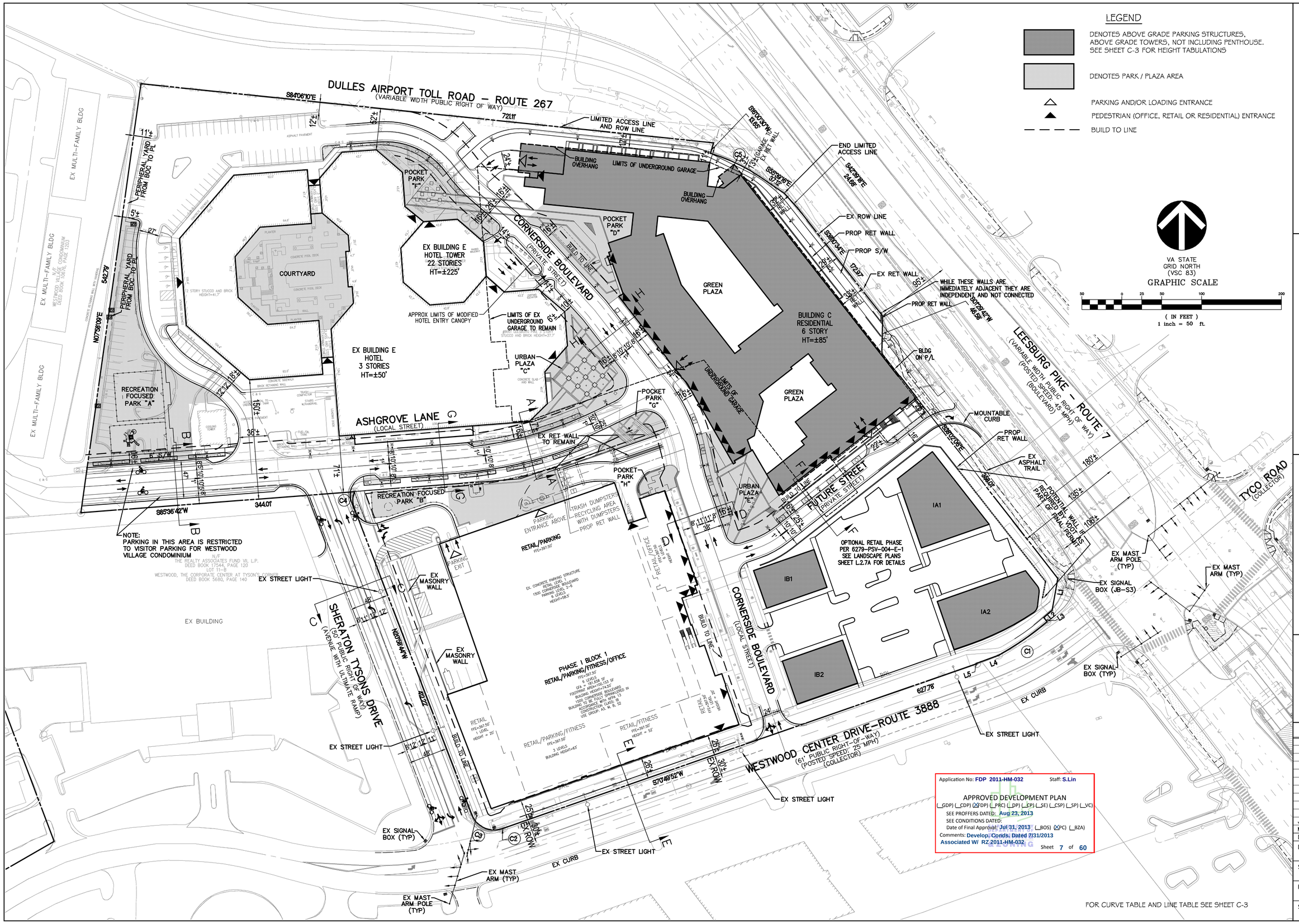

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 7 of 60

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(703) 442-7800 ■ FAX (703) 761-2787
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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

ALTERNATE FINAL DEVELOPMENT PLAN

VIKA REVISIONS

JUNE 12, 2013	
MAY 10, 2013	
DATE: FEBRUARY 25, 2013	
DES. PCC	DWN. RMC
SCALE: 1"=50'	
PROJECT/FILE NO. VV7405D	
SHEET NO. C-6A	

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DULLES AIRPORT TOLL ROAD – ROUTE 267
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)

LIMITED ACCESS LINE AND ROW LINE

END LIMITED ACCESS LINE

BUILDING OVERHANG

LIMITS OF UNDERGROUND GARAGE

BUILDING OVERHANG

POCKET PARK "F"

POCKET PARK "D"

CORNERSIDE BOULEVARD
(PRIVATE STREET)

BUILD TO LINE

EX BUILDING E
HOTEL TOWER
22 STORIES
HT=±225'

APPROX LIMITS OF MODIFIED HOTEL ENTRY CANOPY

LIMITS OF EX UNDERGROUND GARAGE TO REMAIN

EX BUILDING E
HOTEL
3 STORIES
HT=±50'

URBAN PLAZA "C"

GREEN PLAZA

GREEN PLAZA

BUILDING C
RESIDENTIAL
6 STORY
HT=±85'

LIMITS OF UNDERGROUND GARAGE

POCKET PARK "G"

ASHGROVE LANE
(LOCAL STREET)

EX RET WALL TO REMAIN

POCKET PARK "H"

RECREATION FOCUSED PARK "B"

TRASH DUMPSTERS
RECYCLING AREA WITH DUMPSTERS
PROP RET WALL

PARKING ENTRANCE ABOVE

RETAIL/PARKING
FFE=397.50'

PARKING EXIT

EX MASONRY WALL

EX. CONCRETE PARKING STRUCTURE
RETAIL LEVEL 1
1500 CORNERSIDE BOULEVARD
PARKING LEVEL 2–6
6 LEVELS
HEIGHT=58.5'

RETAIL/OFFICE
FFE=391.50
6 LEVELS
HEIGHT = 74.50'

URBAN PLAZA "E"

FUTURE STREET
(PRIVATE STREET)

BUILD TO LINE

EX ROW LINE

PROP RET WALL

PROP S/W

EX RET WALL

PROP RET WALL

WHILE THESE WALLS ARE IMMEDIATELY ADJACENT THEY ARE INDEPENDENT AND NOT CONNECTED

BLDG ON P/L

LEESBURG PIKE – ROUTE
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)
(POSTED SPEED: 45 MPH)
(BOULEVARD)

MOUNTABLE CURB

EX ASPHALT TRAIL

POTENTIAL WALL IF REQUIRED BY VDOT AS PART OF FINAL PERMITS

PROP INTERIM RET WALL

APPROX WALL HT= 7–9'

APPROX WALL HT= 5–7'

APPROX WALL HT= 5–7'

POTENTIAL TUNNEL FOR FUTURE PARKING GARAGE CONNECTION

SEE LANDSCAPE SHEETS L2.6 & L2.7 FOR DETAILS

PARKING LOT PER APPROVED SITE PLAN 6279-SPV-004-E-1

APPROX WALL HT= 2–5'

APPROX WALL HT= 2–5'

SEE SHEET C-3

SHER

CORNERS

BUILD

LEGEND

DENOTES ABOVE GRADE PARKING STRUCTURES, ABOVE GRADE TOWERS, NOT INCLUDING PENTHOUSE. SEE SHEET C-3 FOR HEIGHT TABULATIONS

DENOTES PARK / PLAZA AREA

PARKING AND/OR LOADING ENTRANCE

PEDESTRIAN (OFFICE, RETAIL OR RESIDENTIAL) ENTRANCE

BUILD TO LINE

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 8 of 60

VA STATE GRID NORTH (VSC 83)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

DETAILED FINAL DEVELOPMENT PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=30'

PROJECT/FILE NO. VV7405D

SHEET NO. C–7

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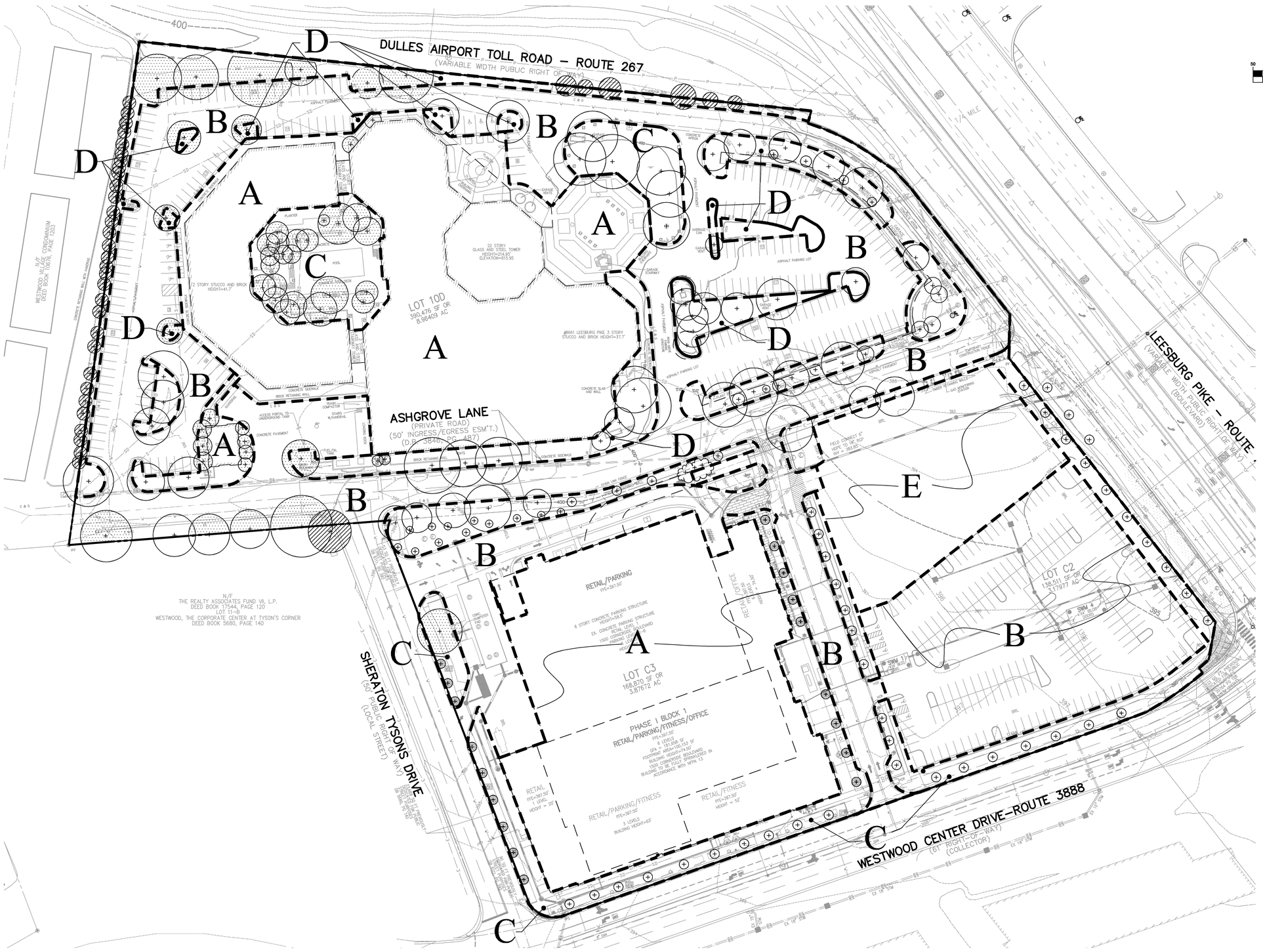

VA STATE
GRID NORTH
(VSC 83)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

LEGEND

EXISTING TREE(S) TO BE PRESERVED AND CREDITED TOWARDS TREE CANOPY COMPUTATIONS

EXISTING OFF-SITE TREE(S) TO BE PRESERVED WITH NO CREDIT TOWARDS TREE CANOPY COMPUTATIONS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 9 of 60

PLAN PREPARED BY: NELSON P. KIRCHNER, RLA
ISA CERTIFIED ARBORIST NO. MA-4720AM

SIGNATURE _____ DATE_____

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

EXISTING VEGETATION MAP

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013

DATE: FEBRUARY 25, 2013

DES.	DWN.
NPK	NPK

SCALE: 1"=50'

PROJECT/FILE NO. VV7405D

SHEET NO. C–8

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EXISTING VEGETATION TABLE – TYSONS WEST

EVM INDEX	COVER TYPE	SUCCESSIONAL STAGE	AREA	COVER CONDITION	PRIMARY SPECIES	COMMENTS
"A"	DEVELOPED LAND/ MAINTAINED	N/A	221,589 SF (5.09 Ac)	N/A	N/A	DEVELOPED WITH A HIGH RISE HOTEL AND CONFERENCE CENTER.
"B"	DEVELOPED LAND/ MAINTAINED	N/A	281,623 SF (6.47 Ac)	N/A	N/A	ASPHALT PAVEMENT FOR PARKING COMPOUND, TRAVEL LANES AND INTERPARCEL CONNECTION.
"C"	DEVELOPED LAND/ MAINTAINED	EARLY SUCCESSIONAL	16,203 SF (0.37 Ac)	N/A	N/A	GUEST SWIMMING POOL WITH PERIPHERAL AND INTERIOR LANDSCAPED PLAZA AREA AND STREETSCAPE AREAS.
"D"	DEVELOPED LAND / LANDSCAPED GREEN CANOPY	EARLY SUCCESSIONAL WITH SOME SUB-CLIMAX ASPECT	133,463 SF (3.06 Ac)	GOOD	SEE COVER TYPE TABLE	PARKING LOT LANDSCAPING, PERIPHERAL PARKING LANDSCAPING, ADJACENT USE SCREENING AND SITE LANDSCAPING AS PART OF THE OVERALL SITE DEVELOPMENT LANDSCAPING.
"E"	OPEN FIELD	N/A	44,980 SF (1.03 Ac)	N/A	N/A	ROUGH GRADED/SEEDED OPEN FIELD. NO TREES PRESENT.
		TOTAL AREA	697,858 SF (16.02 Ac)			

TYSONS WEST VEGETATION COVER TYPES

Acer palmatum – JApanese Maple
Acer platanoides – Norway Maple
Acer rubrum– Red Maple
Acer saccharinum – Silver Maple
Cedrus atlantica – Atlas cedar
Cercus candensis – Eastern Redbud
Cupressocyparis leylandii – Leyland Cypress
Fagus grandifolia – American Beech
Lagerstromia indica – Crapemyrtle
Gleditsia triacanthos – Honeylocust
Platanus x Acerifolia – London Plane
Ilex opaca – American Holly
Magnolia x soulangiana – Saucer Magnolia
Morus alba – White Mulberry
Picea abies – Norway Spruce
Pinus strobus – Eastern White Pine
Platanus occidentalis – American Sycamore
Prunus serrulata 'Kwanzan' – Kwanzan Oriental Cherry
Quercus palustris – Pin Oak
Quercus phellos – Willow Oak
Robinia pseudoacacia – Black Locust

TYSONS WEST EVM NARRATIVE

AREA – A: THIS PORTION OF THE TYSONS WEST RESIDENTIAL IS DEVELOPED AS THOSE BUILDINGS ASSOCIATED WITH A WALMART AND HOTEL SERVICE.

AREA – B: THIS PORTION OF THE TYSONS WEST RESIDENTIAL SITE IS DEVELOPED AS THE PARKING COMPOUND AND TRAVEL LANES ASSOCIATED WITH THE WALMART AND HOTEL USES.

AREA – C: THIS PORTION OF TYSONS WEST HAS BEEN LANDSCAPED WITH PLANT MATERIAL INSTALLED WITH THE DEVELOPMENT OF THE SITE. THIS SITE LANDSCAPING IS MAINTAINED. THE LEVELS OF VEGETATION MATURITY VARIES FROM NEW PLANTING TO SUB–CLIMAX / SUB–MATURITY. TRUNK CALIPER VARIES FROM 2" TO 28" CALIPER TRUNK STEMS. THERE IS A VEGETATION MIX OF DECIDUOUS AND CONIFER PLANT MATERIAL. THIS VEGETATION SHOWS GOOD TO ABOVE AVERAGE HEALTH FOR THE MAINTENANCE AND AGE. PORTIONS OF THE VEGETATION WITHIN AREA – C WILL HAVE A PRIORITY TO BE PRESERVED AND PORTIONS WILL BE SPECIFIED FOR REMOVAL.

AREA – D THIS PORTION OF TYSONS WEST HAS BEEN LANDSCAPED AND HAS PLANT MATERIAL THAT WAS INSTALLED WITH THE DEVELOPMENT OF THE SITE. THIS SITE LANDSCAPING IS WELL MAINTAINED. THE LEVELS OF VEGETATION MATURITY VARIES FROM NEW PLANTING TO SUB–CLIMAX / SUB–MATURITY. TRUNK CALIPER VARIES FROM 4" TO 28" CALIPER. THIS ON–SITE VEGETATION IS DECIDUOUS, CONIFER AND FLOWERING TREES. THIS VEGETATION SHOWS GOOD TO ABOVE AVERAGE HEALTH FOR THE MAINTENANCE AND AGE. PORTIONS OF THE VEGETATION WITHIN AREA – D WILL HAVE A PRIORITY TO BE PRESERVED AND PORTIONS WILL BE SPECIFIED FOR REMOVAL.

AREA – E THIS PORTION OF TYSONS WEST IS AN OPEN FIELD VOID OF SIGNIFICANT VEGETATION. THIS AREA HAS BEEN CLEARED ROUGH GRADED AND SEEDED.

THE TYSONS WEST SITE IS ZONED PTC IN THE TYSONS IMPROVEMENT AREA AND IS SPECIFIED FOR COMPLETE REDEVELOPMENT WHERE THE EXISTING STRUCTURES, SURFACE PARKING AREAS AND VEGETATION WILL BE REMOVED. THEREFORE, THIS SITE WILL NOT PROVIDE A TREE PRESERVATION TARGET. TO MEET THE TREE PRESERVATION TARGET AREA A DEVIATION REQUEST WILL BE SUBMITTED TO FAIRFAX COUNTY UFMD FOR REVIEW AND APPROVAL IN ACCORDANCE WITH PFM 12–0507.4.

Table 12.3 Tree Preservation Target Calculations and Statement

A	Pre-development area of existing tree canopy (from Exisiting Vegetation Map)(SF) =	96,793	see § 12-0508.2
B	Percentage of gross site area covered by existing tree canopy =	14%	
C	Percentage of 10-year tree canopy required for site =	10%	see Table 12.4
D	Percentage of the 10-year tree canopy requirement that should be met through tree preservation =	14%	
E	Proposed percentage of canopy requirement that will be met through tree preservation =	59.6%	
F	Has the Tree Preservation Target minimum been met?	Yes	Provide Yes or No
G	If No for line A 6, then a request to deviate from the Tree Preservation Target shall be provided on the plan that states one or more of the justifications listed in § 12-0508.3 along with a narrative that provides a site-specific explanation of why the T	N/A	Provide sheet number, see § 12-0508.3
H	If step A 7 requires a narrative, it shall be prepared in accordance with § 12-0508.4	–	see § 12-0508.4
I	Place this infomation prior to the 10-year Tree Canopy Calculations as per instructions in Table 12.10.	–	

X:\DATA\7000-9000\7405\7405A\[FDP 10-yr Canopy Reqmts (2013.06.11).xls]Sheet1 (2)

NO.	DESCRIPTION	REVIEW BY	APPROVED	DATE

REVISION APPROVED BY:
DIVISION OF DESIGN REVIEW

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_PD) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
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Associated W/ RZ 2011-HM-032
DRAFT PLANNING
Sheet 10 of 60

PLAN PREPARED BY: NELSON P. KIRCHNER, RLA
ISA CERTIFIED ARBORIST NO. MA–4720AM

SIGNATURE _____ DATE_____

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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

EXISTING VEGETATION NOTES, CORRISPONDENCE AND TABULATIONS

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
NPK	NPK

SCALE: N/A
PROJECT/FILE NO. VV7405D
SHEET NO. C–9

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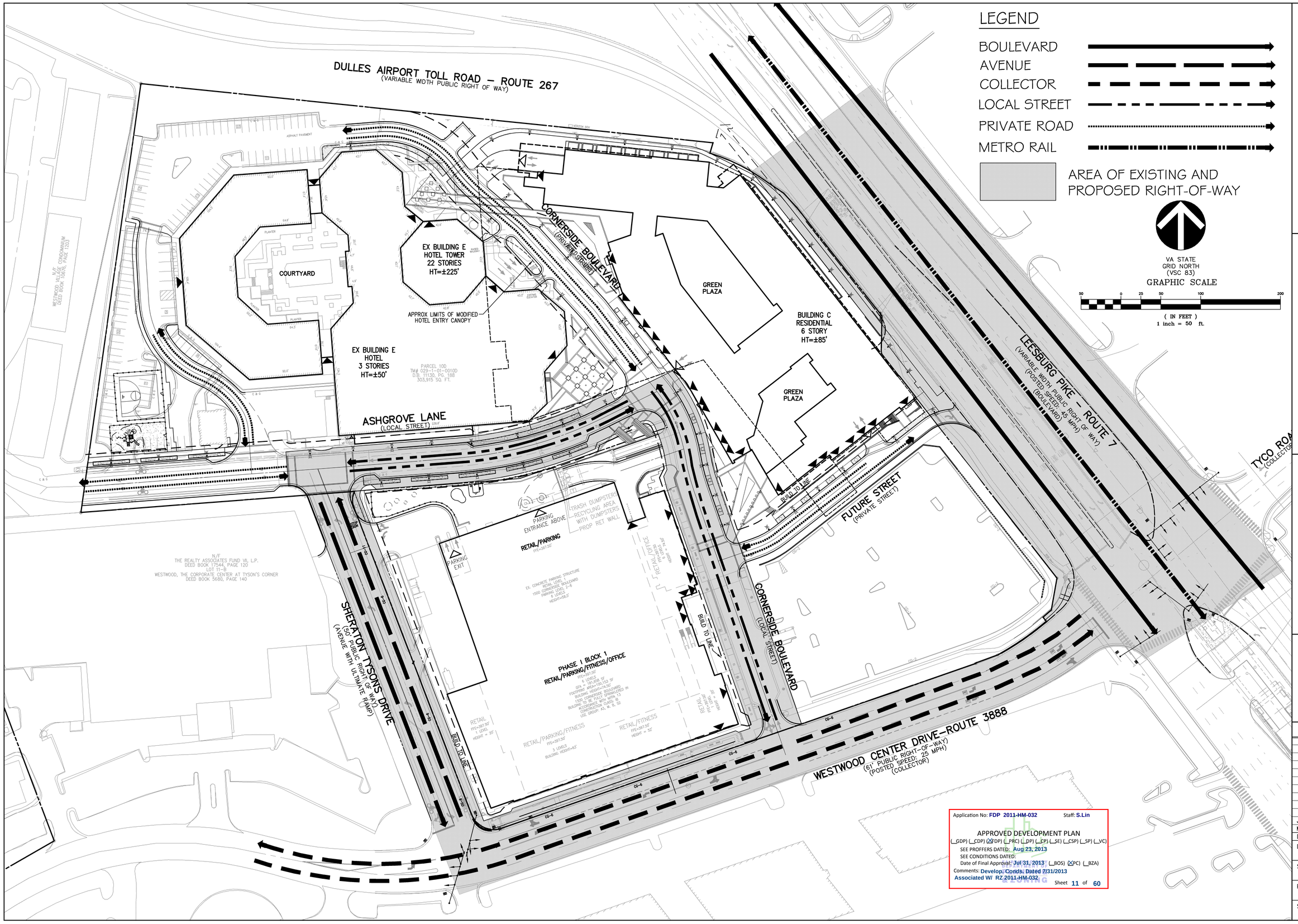

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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

FDP TRAFFIC CIRCULATION AND RIGHT-OF-WAY PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013

DATE: FEBRUARY 25, 2013

DES. PCC
DWN. RMC

SCALE: 1"=50'

PROJECT/FILE NO. VV7405D

SHEET NO. C-10

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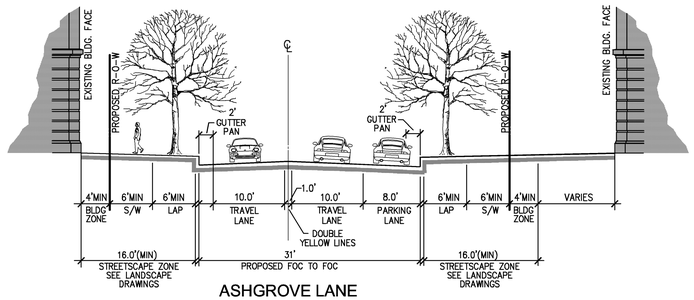
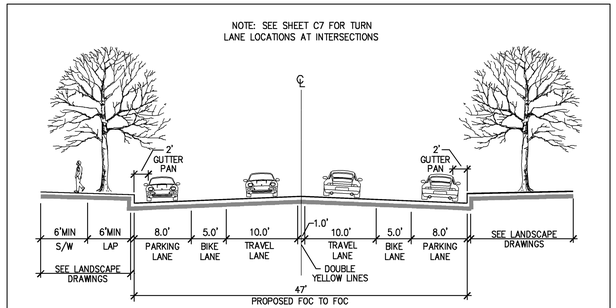
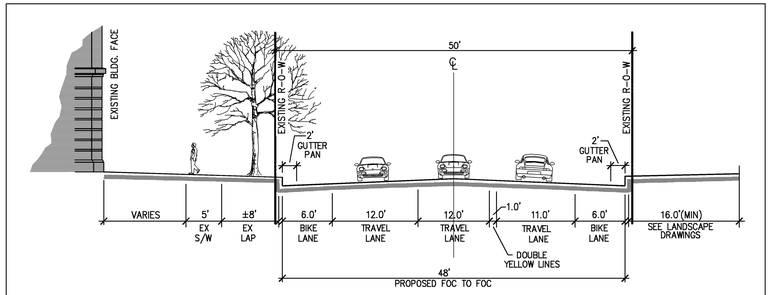


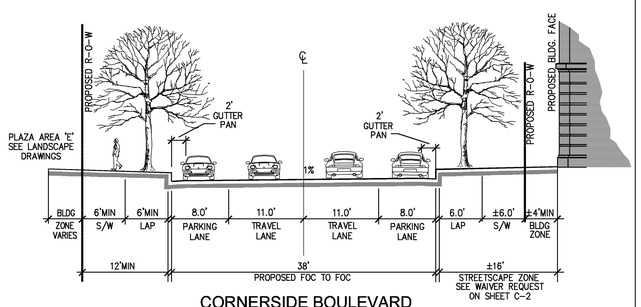
ASHGROVE LANE
(PUBLIC LOCAL SECTION)
SECTION A-A
SCALE: 1"=10'



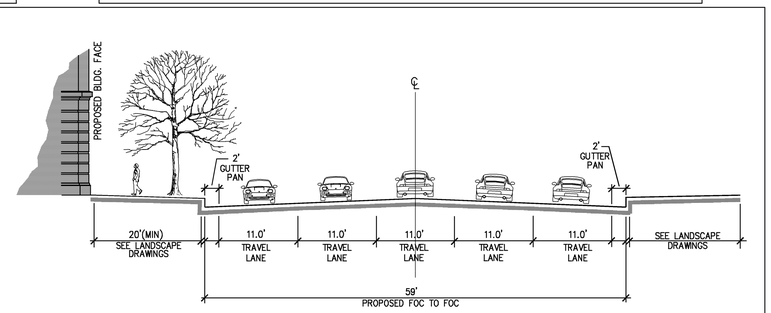
ASHGROVE LANE
(PRIVATE LOCAL SECTION)
SECTION B-B
SCALE: 1"=10'



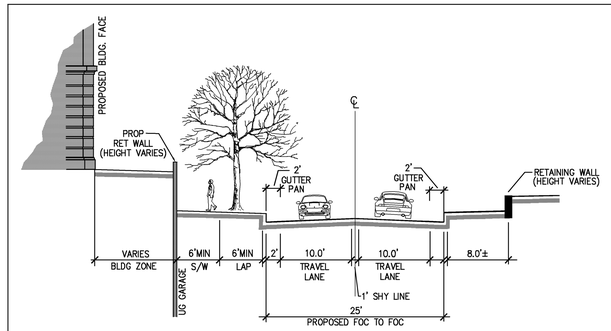
SHERATON TYSONS DRIVE
(PUBLIC LOCAL STREET-INTERIM)
SECTION C-C
SCALE: 1"=10'



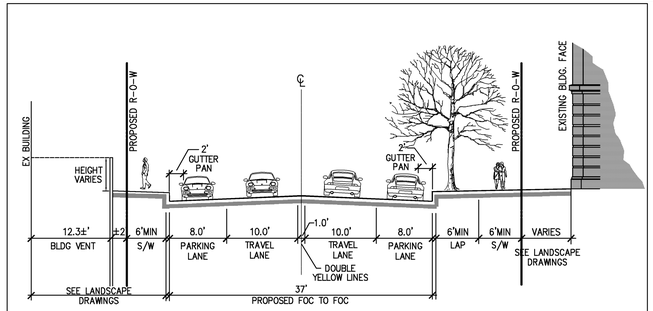
CORNERSIDE BOULEVARD
(PUBLIC LOCAL SECTION)
SECTION D-D
SCALE: 1"=10'



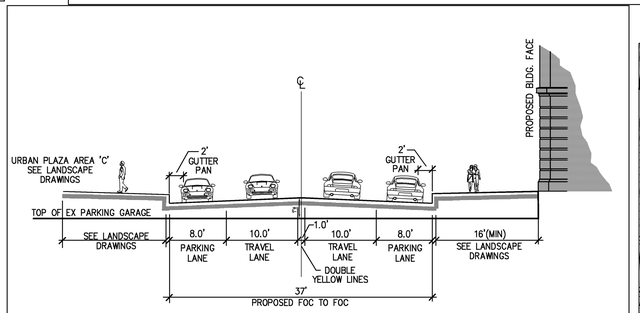
WESTWOOD CENTER DRIVE
(PUBLIC STREET-EXISTING)
SECTION E-E
SCALE: 1"=10'



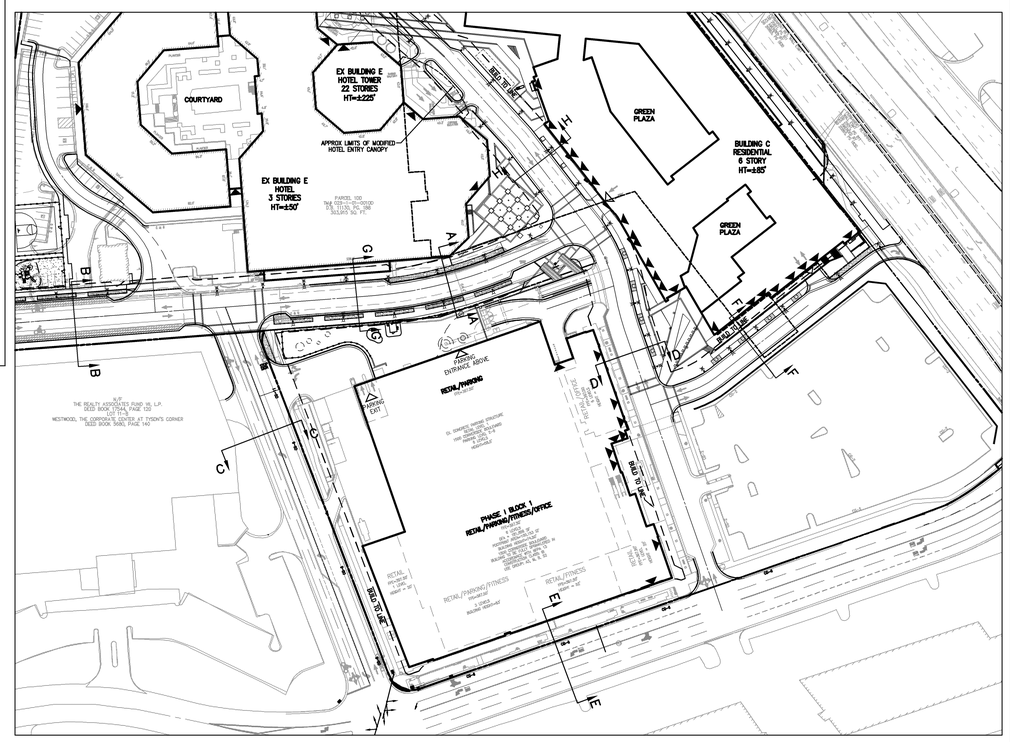
FUTURE STREET
(PRIVATE LOCAL STREET-INTERIM)
SECTION F-F
SCALE: 1"=10'



ASHGROVE LANE
(PUBLIC LOCAL SECTION)
SECTION G-G
SCALE: 1"=10'



CORNERSIDE BOULEVARD
(PRIVATE LOCAL SECTION)
SECTION H-H
SCALE: 1"=10'



SECTION KEY MAP
NOT TO SCALE

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_PA) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 12 of 60

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

TYPICAL STREET SECTIONS

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: AS SHOWN

PROJECT/FILE NO. VV7405D

SHEET NO. C-11

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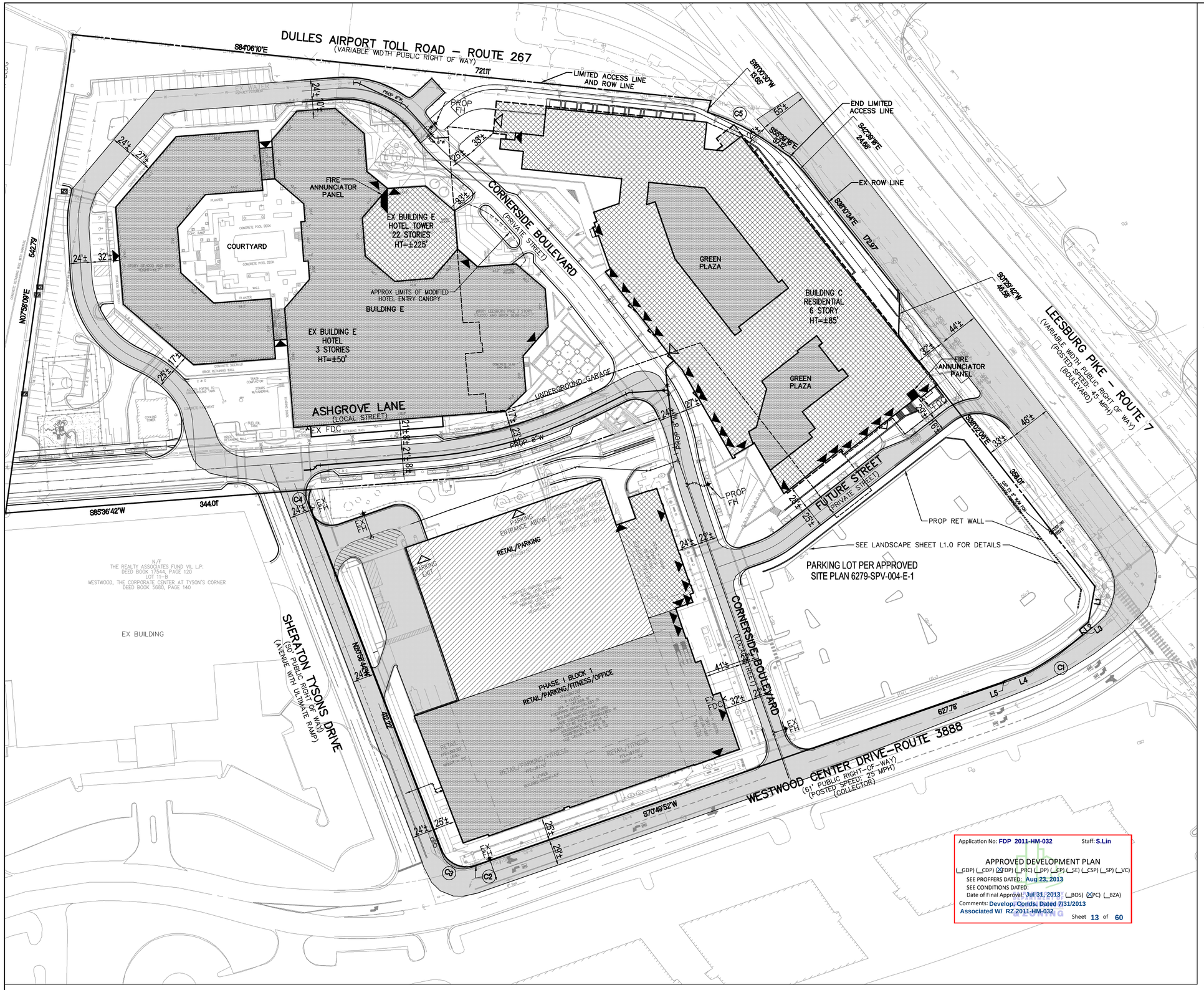

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_PP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

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Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)

Comments: Develop. Contds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 13 of 60

VA STATE
GRID NORTH
(VSC 83)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

NOTE:

THE PORTION OF THE EXISTING BELOW GRADE PARKING STRUCTURE WHICH UNDERLIES THE PLANNED CORNERSIDE BOULEVARD EXTENSION WAS DESIGNED TO SUPPORT FIRE TRUCK LOADING (250 PSF UNIFORM LIVE LOAD) AT THE TIME IT WAS CONSTRUCTED IN 1985 AND CURRENTLY SERVES THAT FUNCTION BY PROVIDING FIRE TRUCK ACCESS TO THE EXISTING HOTEL. SUBSEQUENT TO THE ORIGINAL CONSTRUCTION OF THE EXISTING BELOW GRADE PARKING STRUCTURE, THE PUBLIC FACILITIES MANUAL FOR FAIRFAX COUNTY (ADOPTED IN 1996) MODIFIED THE STRUCTURAL CODE SIGNIFICANTLY INCREASING THE FIRE TRUCK LOADING CRITERIA TO 450 PSF UNIFORM LIVE LOAD WHICH IS IN EXCESS OF THE STRUCTURAL CAPACITY OF THE EXISTING BELOW GRADE PARKING STRUCTURE. AS A RESULT OF PLANNED MODIFICATIONS TO THE EXISTING GARAGE (SUCH AS THE EXTENSION OF CORNERSIDE BOULEVARD), IT IS LIKELY THAT THE EXISTING GARAGE WILL BE REQUIRED TO CONFORM TO CURRENT CODES INCLUDING, BUT NOT LIMITED TO, THE PUBLIC FACILITIES MANUAL FOR FAIRFAX COUNTY. AS PART OF IT'S SITE PLAN AND BUILDING PERMIT APPROVALS FOR BUILDING C, APPLICANT SHALL PURSUE A WAIVER/MODIFICATION OF THE INCREASED UNIFORM LIVE LOAD REQUIREMENT TO THE EXISTING STRUCTURE WITH THE GOAL OF PROVIDING FIRE TRUCK ACCESS / ROUTING CONSISTENT WITH WHAT IS CURRENTLY IN PLACE. IF THE APPLICANT IS NOT SUCCESSFUL IN OBTAINING SUCH A WAIVER/MODIFICATION, THE FIRE TRUCK ACCESS SHALL BE AS SHOWN ON THIS SHEET.

BUILDING DATA

BUILDING	C – PROPOSED
TYPE OF CONSTRUCTION	3A
NUMBER OF STORIES	5/6
BUILDING HEIGHT	85'±
USE GROUP	R-2
BUILDING FOOT PRINT	90,578 SF
FULLY SPRINKLERED PER NFPA 13	✓ YES ___ NO
FIRE WALL RATING	2 HOUR

BUILDING	D – EXISTING
TYPE OF CONSTRUCTION	1B
NUMBER OF STORIES	6
BUILDING HEIGHT	95
USE GROUP	B
BUILDING FOOT PRINT	98,949 SF
FULLY SPRINKLERED PER NFPA 13	✓ YES ___ NO
FIRE WALL RATING	2 HOUR

BUILDING	E – EXISTING
TYPE OF CONSTRUCTION	1B
NUMBER OF STORIES	22
BUILDING HEIGHT	215
USE GROUP	R-2
BUILDING FOOT PRINT	97,141 SF
FULLY SPRINKLERED PER NFPA 13	✓ YES ___ NO
FIRE WALL RATING	2 HOUR

HEIGHT LEGEND

= VEHICULARLY ACCESSIBLE

= 10' – 50' HEIGHT

= 50 – 76' HEIGHT

= > 76' HEIGHT

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

FIRE LANE ACCESS PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

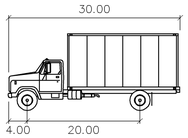
SCALE: 1"=50'

PROJECT/FILE NO. VV7405D

SHEET NO. C-12

P:\Planning\Projects\7405D\dwg\7405100.dwg 6/12/2013 9:04:47 AM EDT

COLLECTOR/LOCAL DESIGN VEHICLE



SU	feet
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8

SU - Single unit truck

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

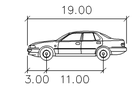
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

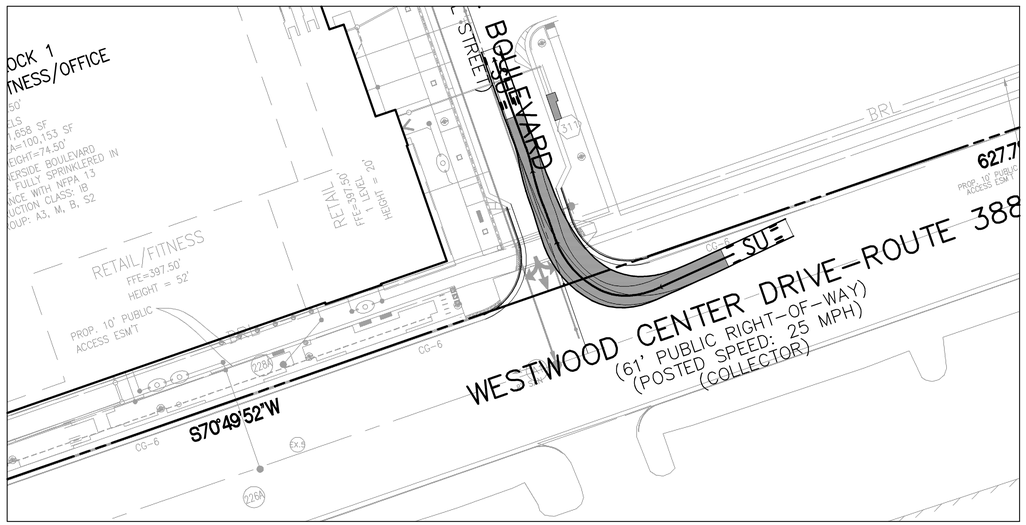
Sheet 14 of 60

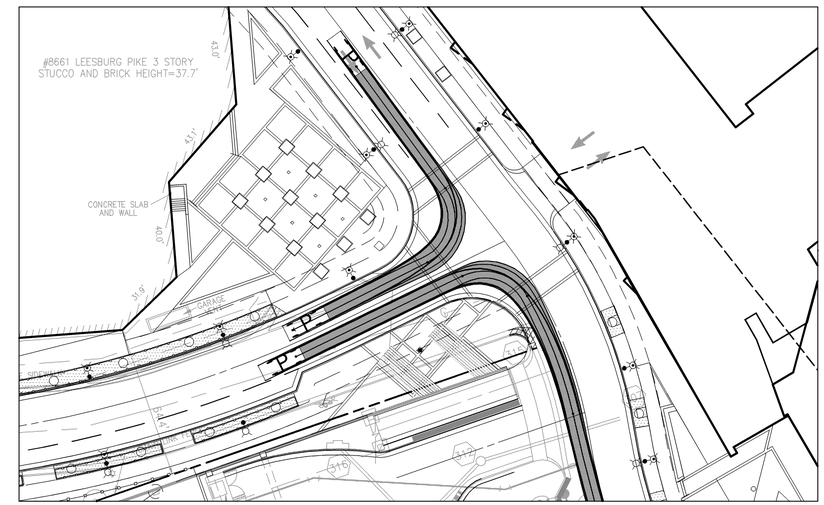
LOCAL/LOCAL DESIGN VEHICLE

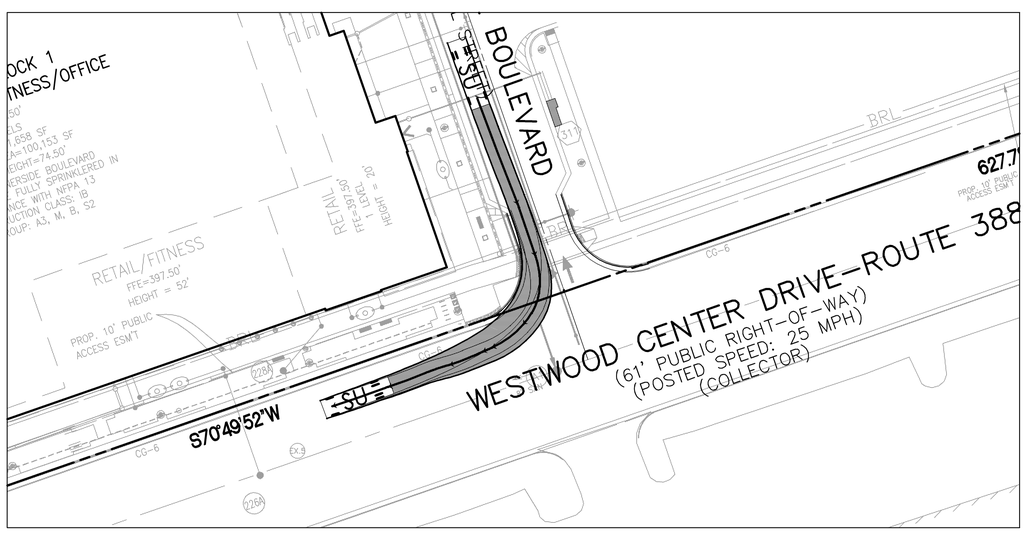


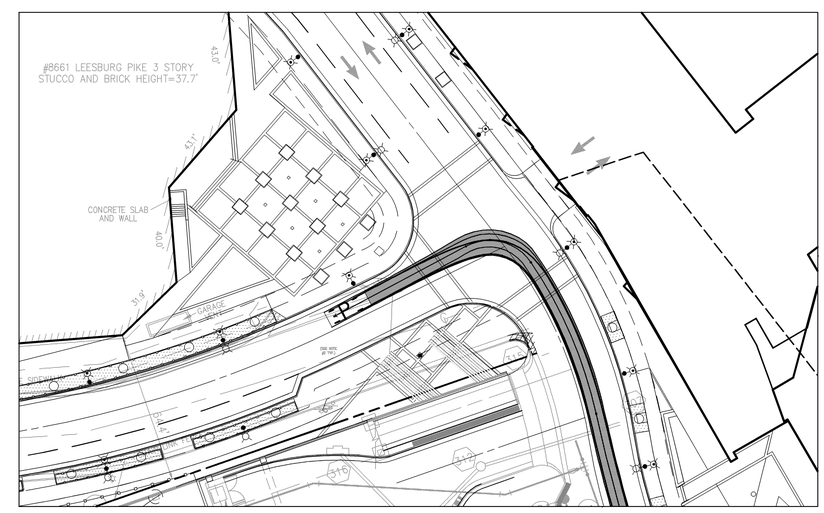
P	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6

P- Passenger car









VA STATE
GRID NORTH
(VSC 83)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

VIKA

ENGINEERS ■ PLANNERS ■ LANDSCAPE ARCHITECTS ■ SURVEYORS ■ SUSTAINABLE DESIGN

VIKA VIRGINIA LLC
8180 GREENSBORO DRIVE SUITE 200 ■ TYSONS CORNER, VIRGINIA 22102
(703) 442-7800 ■ FAX (703) 761-2787
W W W . V I K A . C O M

TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

DESIGN VEHICLE TURNING MOVEMENTS EXHIBIT

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=30'

PROJECT/FILE NO. VV7405D

SHEET NO. C-13

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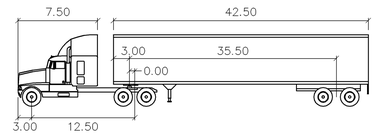
COLLECTOR/LOCAL AND LOCAL/LOCAL CONTROL VEHICLE



WB-50 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

WB-50: 50 feet Semi-trailer

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

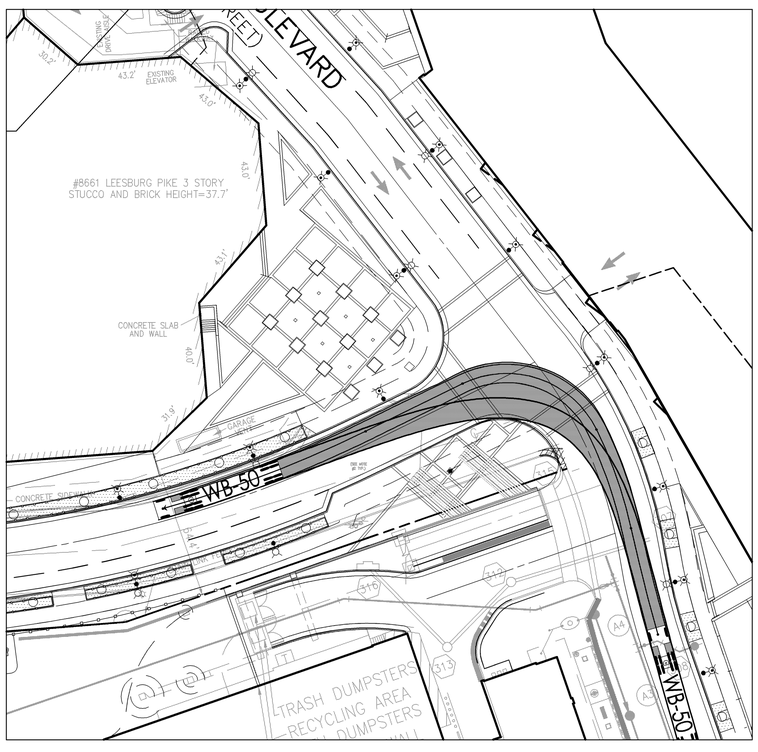
SEE CONDITIONS DATED:

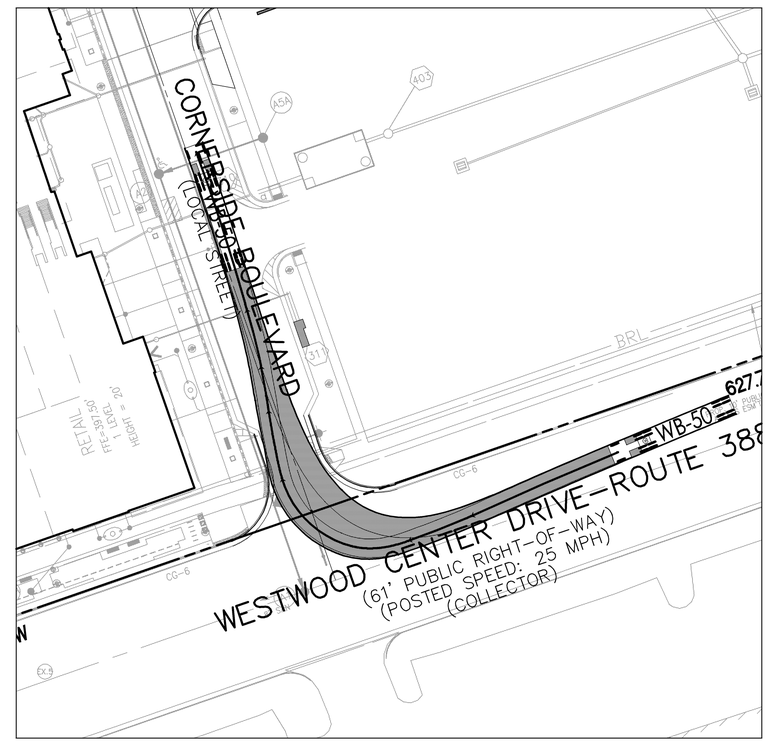
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 15 of 60





VA STATE
GRID NORTH
(VSC 83)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

CONTROL
VEHICLE TURNING
MOVEMENTS EXHIBIT

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=30'

PROJECT/FILE NO. V7405

SHEET NO. C-14

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Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

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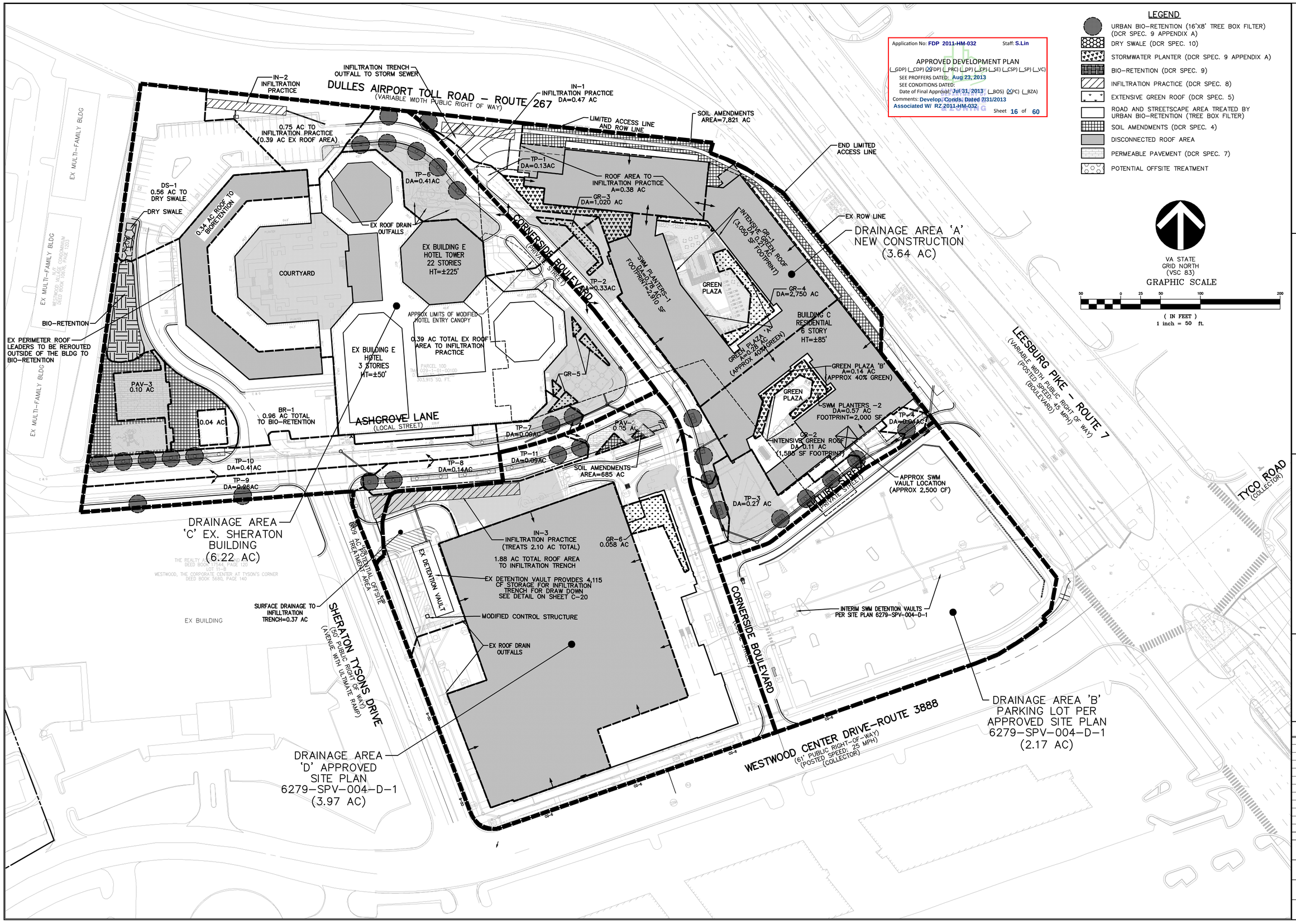
Associated W/ RZ 2011-HM-032

Sheet 16 of 60



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TYSONS WEST FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT

FAIRFAX COUNTY, VIRGINIA

OVERALL STORMWATER MANAGEMENT PLAN

VIKA REVISIONS

JUNE 12, 2013

MAY 10, 2013

DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=50'

PROJECT/FILE NO. VV7405D

SHEET NO. C–15

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TYSONS CORNER COMPREHENSIVE PLAN STORMWATER CONFORMANCE CHECKLIST NARRATIVE

TYSONS CORNER COMPREHENSIVE PLAN STORMWATER CONFORMANCE CHECKLIST NARRATIVE

THE PURPOSE OF THIS NARRATIVE IS TO DETAIL THE PROCESS BY WHICH THE SUBJECT SITE MEETS, EXCEEDS, OR PROVIDES TO THE MAXIMUM EXTENT PRACTICABLE THE RUNOFF REDUCTION REQUIREMENTS OF THE TYSONS CORNER COMPREHENSIVE PLAN.

COMPREHENSIVE PLAN STORMWATER MANAGEMENT GOALS:

- THIS STORMWATER MANAGEMENT NARRATIVE EXPLAINS HOW THIS PLAN PROPOSES TO MEET THE STORMWATER REQUIREMENTS OF THE TYSONS CORNER COMPREHENSIVE PLAN. THIS NARRATIVE DESCRIBES THE VARIOUS STRATEGIES BY WHICH THE VARIOUS GOALS ARE TO BE MET (EG. VEGETATIVE ROOF, URBAN BIO-RETENTION, PERMEABLE PAVERS ETC.) AS WELL AS THOSE STRATEGIES WE EVALUATED BUT WERE UNABLE TO IMPLEMENT DUE TO SITE CONSTRAINTS.

COMPREHENSIVE PLAN STORMWATER MANAGEMENT GOALS	RESPONSE
STORMWATER MANAGEMENT AND WATER QUALITY CONTROLS FOR REDEVELOPMENT SHOULD BE DESIGNED TO RETURN WATER INTO THE GROUND WHERE SOILS ARE SUITABLE OR REUSE IT, WHERE ALLOWED, TO THE EXTENT PRACTICABLE. REDUCTION OF STORMWATER RUNOFF VOLUME IS THE SINGLE MOST IMPORTANT STORMWATER DESIGN OBJECTIVE FOR TYSONS.	INFILTRATION FACILITIES HAVE BEEN PROVIDED AS A MEASURE TO HELP RETAIN A PORTION OF THE 1 INCH OF RAINFALL VOLUME FROM THE APPLICATION AREA. POTENTIAL INFILTRATION FACILITY LOCATIONS FOR THIS PROJECT ARE LIMITED FOR SEVERAL REASONS INCLUDING PROPOSED FUTURE RIGHT-OF-WAY DEDICATIONS AND UNDERGROUND GARAGES, AS WELL AS THE SOILS FOUND IN THIS AREA OF TYSONS. AS SUCH, INFILTRATION FACILITIES AT SITE PLAN MAY REQUIRE WAIVERS DUE TO THEIR PROXIMITY TO THE PROPOSED BUILDINGS, PREVIOUS CONSTRUCTION ON IN-SITU MATERIAS, AND FOR INFILTRATION RATES LESS THAN 0.52 IN/HR. A FULL LIST OF REQUIRED WAIVERS CAN BE FOUND IN THE NEXT SECTION OF THIS NARRATIVE. WITH ALL OF THESE LIMITING FACTORS OPPORTUNITIES FOR THREE INFILTRATION TRENCHES AND ONE BIO-RETENTION FACILITY HAVE BEEN IDENTIFIED WITH THIS APPLICATION, RETAINING COLLECTIVELY 0.25 INCHES OF THE FIRST INCH OF RAINFALL (SEE FDP OVERALL ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS ON SHEET C-17). TO IDENTIFY OPPORTUNITIES FOR INFILTRATION ON SITE, THE AREAS OF UNDERGROUND GARAGES WAS FIRST REMOVED FROM THE POTENTIAL INFILTRATION AREAS. THIS APPLICATION PROPOSES A TOTAL FOOTPRINT AREA OF 4.75 ACRES OF UNDERGROUND GARAGE COVERING APPROXIMATELY 30% OF THE 16 ACRE APPLICATION AREA. AN ADDITIONAL 5.65 ACRES OF THE APPLICATION AREA IS COVERED BY EXISTING BUILDINGS AND PROPOSED FUTURE ROW. IN THE REMAINING 5.7 ACRES ARE AREAS OF EXISTING ROADWAYS, PARKING LOTS, LOADING AREAS, AND PROPOSED STREETSCAPE. THE PROPOSED INFILTRATION FACILTIES HAVE BEEN WORKED INTO THE SITE AROUND THE EXISTING IMPROVEMENTS AND PROPOSED STREETSCAPES (SEE SHEET C-15). INFILTRATION FACILITIES ARE NOT PROPOSED BENEATH THE PAVEMENT OF FUTURE PUBLIC RIGHT OF WAY AS THIS IS NOT CONVENTIALLY ALLOWED BY VDOT. INFILTRATION FACILITIES ARE ALSO NOT PROPOSED BENEATH THE PAVEMENT OF THE PRIVATE STREETS PROPOSED. INSTEAD THESE AREAS HAVE BEEN CAPTURED AND TREATED BY BIORETENTION TREE FILTERS. LASTLY, PLEASE NOTE THAT EXISTING AND PROPOSED ROOFTOP AREAS HAVE BEEN ALSO BEEN DISCONNECTED TO INFILTRATING BIORETENTION PRACTICES AND INFILTRATION TRENCHES WHERE PRACTICABLE. THE FOCUS OF THE OVERALL SWM PLAN IS TREATMENT OF THE PROPOSED IMPERVIOUS AREAS, PROVIDING INFILTRATION WHEREVER PRACTICABLE.
AT A MINIMUM, THE FIRST INCH OF RAINFALL SHOULD BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE. IF, ON A GIVEN SITE, THE RETENTION ON-SITE OF THE FIRST INCH OF RAINFALL IS DEMONSTRATED NOT TO BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES SHOULD BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL."	THE TARGET GOAL OF THE RUNOFF REDUCTION METHOD IS TO CAPTURE AND CONTROL THE FIRST INCH OF RAINFALL. TO THIS EXTENT FIVE MAIN STORMWATER MANAGEMENT STRATEGIES HAVE BEEN UTILIZED: VEGETATIVE ROOFS (EXTENSIVE AND INTENSIVE-TIER 3), INFILTRATION TRENCHES, BIO-RETENTION (BOTH URBAN AND TRADITIONAL), SOIL AMENDMENTS, AND A DRY SWALE. • THE VEGETATIVE ROOFS HAVE BEEN DESIGNED PER DCR SPEC #5 AND ARE USED TO TREAT BOTH VEGETATIVE AND NON-VEGETATIVE ROOF AREAS. EXTENSIVE VEGETATED ROOF IS PROPOSED WITHIN THE COURYARD AREAS OF BUILDING C, ABOVE THE UNDERGROUND GARAGE, AND ON THE OFFICE PORTION OF BUILDING D. THE HIGHRISE ROOF TOP OF BUILDING C HAS BEEN DISCONNECTED TO STORMWATER PLANTERS BECAUSE OF CONCERNS FOR STRUCTURAL LOADING OF A GREEN ROOF. • THE INFILTRATION TRENCHES HAVE BEEN DESIGNED PER DCR SPEC #9 HAVE BEEN USED TO TREAT DISCONNECTED ROOF WATER AND SURFACE RUNOFF FROM BOTH PERVIOUS AND IMPERVIOUS SURFACES. • THE TRADITIONAL BIO-RETENTION AREA HAS BEEN DESIGNED IN ACCORDANCE WITH DCR SPEC#9 AND HAS BEEN USED TO TREAT DISCONNECTED ROOF WATER AND SURFACE RUNOFF FROM BOTH PERVIOUS AND IMPERVIOUS SURFACES. • THE URBAN BIO-RETENTION TREE PITS AND STORMWATER PLANTERS HAVE BEEN DESIGNED PER DCR SPEC #9 APPENDIX 9A. THE TREE PITS ARE UTILIZED TO ULTIMATELY TREAT THE ROADWAY RUNOFF AS WELL AS THE SURROUNDING STREETSCAPE. THE STORMWATER PLANTERS HAVE BEEN UTILIZED FOR TREATMENT OF ROOFTOP AREAS. • SOIL AMENDMENTS HAVE BEEN DESIGNED PER DCR SPEC #4. • THE DRY SWALE HAS BEEN DESIGNED PER DCR SPEC#10 AND USED TO TREAT SURFACE RUNOFF FROM BOTH PERVIOUS AND IMPERVIOUS SURFACES. SIZING COMPUTATIONS HAVE BEEN PROVIDED THAT VERIFY THE REQUIRED STORAGE HAS BEEN MET FOR EACH LID PRACTICE. PRACTICES WHICH HAVE DRAINAGE AREAS IN EXCESS OF THE STORAGE VOLUME FOR THE 1 INCH RAIN FALL EVENT HAVE TAKEN CREDIT FOR ONLY THE AREA WHICH CAN BE RETAINED WITHIN THE PRACTICE. THE DRAINAGE AREA IN EXCESS OF THE PROVIDED RETENTION VOLUME IS CONSIDERED UNDETAINED SITE RUNOFF. SEE SHEET C-17 FOR FDP BMP SIZING COMPUTATIONS WHICH IS A BREAKDOWN OF EACH PRACTICE IDENTIFIED ON SHEET C-15. THESE PRACTICES COMBINED YIELD AN ONSITE RETAINED RAINFALL DEPTH OF 0.65 INCHES. PLEASE NOTE THAT THE LEED RUNOFF REDUCTION ACHIEVED IS 0.69 INCHES FOR THE PROVIDED STORAGE VOLUMES WITHIN THE PROPOSED PRACTICES. THE LEED SPECIFIED STORM EVENT FOR THIS PART OF THE COUNTRY IS A 2 YEAR 24 HOUR SCS TYPE II RAINFALL EVENT OF 3.2 INCHES. ADDITIONALLY, IT SHOULD BE NOTED THAT OF THE 16 ACRE APPLICATION AREA, 10.19 ACRES (64%) IS COMPRISED OF EXISTING BUILDINGS AND THEIR IMPROVEMENTS. THE RAINFALL RETENTION FOR THESE EXISTING BUILDINGS HAS BEEN IMPROVED FROM THE EXISTING RETENTION OF 0.13 INCHES TO 0.67 INCHES. THE 3.64 ACRES OF NEW CONSTRUCTION PROPOSED RETAINS 0.91 INCHES OF RAIN FALL ON SITE. THE NEW CONSTRUCTION WOULD REACH 0.99 INCHES IF THE LEED SPECIFICIED RAINFALL EVENT WAS CONSIDERED (SEE SHEETS C-15 AND C-18). ALL ROOF AREAS OF THE SITE THAT HAVE THE POTENTIAL FOR A GREEN ROOF HAVE BEEN UTILIZED FOR SUCH PURPOSE. HIGHRISE ROOFTOPS FOR BUILDING C DISCONNECT RUNOFF TO STORMWATER PLANTERS BECAUSE GREEN ROOF CAN NOT BE SUPPORTED STRUCTURALLY. URBAN DESIGN GUIDELINES, NEED FOR PENTHOUSE, AND SIGNATURE SKYLINE ARCHITECTURE PRECLUDE THE ABILITY TO KEEP ALL ROOFS FLAT AND AVAILABLE FOR SWM PURPOSES. WHILE THE MAJORITY OF THE STREETS HAVE BIO-RETENTION TREE PITS LOCATED ON THEM, THOSE ROADS CURRENTLY IN THE VDOT SYSTEM, THAT HAVE STEEP TOPOGRAPHY, OR DUE TO URBAN DESIGN ARE DEEMED UNDESIRABLE DO NOT. GIVEN THESE CONSTRAINTS, A TOTAL CONTROLLED AREA OF 9.78 ACRES OR 61% OF THE SITE HAS BEEN IDENTIFIED AND DEMONSTRATES "TO THE MAXIMUM EXTENT PRACTICABLE" WE HAVE MET THE TYSONS CORNER COMPREHENSIVE PLAN GOAL TO RETAIN/REUSE THE FIRST INCH OF RAINFALL FOR THIS FDP.
REDEVELOPMENT PROJECTS IN TYSONS SHOULD INCORPORATE INNOVATIVE STORMWATER MANAGEMENT MEASURES IN A MANNER THAT WILL, FIRST AND FOREMOST, OPTIMIZE REDUCTION OF STORMWATER RUNOFF VOLUME AND CONTROL OF PEAK FLOWS FOR THE REMAINING STORMWATER THAT CANNOT BE COMPLETELY CAPTURED ON-SITE."	THE RUNOFF REDUCTION PRACTICES SHALL BE USED IN CONFORMANCE WITH THE DCR SPECIFICATION THAT GOVERNS THEM. THE VEGETATIVE ROOF, INFILTRATION PRACTICES, BIO-RETENTION (URBAN AND TRADITIONAL), SOIL AMENDMENTS, AND DRY SWALE HAVE BEEN DESIGNED IN ACCORDANCE WITH THEIR RESPECTIVE SPECIFICATION.
"AT A MINIMUM, STORMWATER MANAGEMENT MEASURES THAT ARE SUFFICIENT TO ATTAIN BOTH THE STORMWATER DESIGN QUANTITY CONTROL AND STORMWATER DESIGN-QUALITY CONTROL CREDITS OF THE MOST CURRENT VERSION OF THE LEED-NC OR LEED-CS RATING SYSTEM (OR THE EQUIVALENT OF THESE CREDITS) SHOULD BE PROVIDED. IF, ON A GIVEN SITE, THE ATTAINMENT OF THE STORMWATER DESIGN LEED CREDITS (OR EQUIVALENT) IS DEMONSTRATED NOT TO BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES SHOULD BE IMPLEMENTED TO THE EXTENT POSSIBLE IN SUPPORT OF THIS GOAL."	LEED STORMWATER CREDITS 6.1 AND 6.2 SHALL BE OBTAINED THROUGH THE USE OF THE VEGETATIVE ROOF, INFILTRATION PRACTICES, BIO-RETENTION (URBAN), AND SOIL AMENDMENTS. EACH PRACTICE PROVIDES BOTH QUANTITY AND QUALITY CONTROL. SEE SHEETS C-17 THRU C-19 FOR COMPUTATIONS SHOWING COMPLIANCE WITH LEED CREDIT 6.1. COMPUTATIONS PROVIDED HEREIN ARE PRELIMINARY. FINAL LEED BOUNDARIES WILL BE ESTABLISHED WITH SUBSEQUENT THE SITE PLAN SUBMISSION AS THE LIMITS OF THIS FDP ARE THE SITE AREA. RETROFITTING EXISTING BUILDINGS D AND E TO ACHIEVE LEED CREDITS 6.1 AND 6.2 IS NOT PRACTICABLE.

"EQUIVALENT APPROACHES MAY INCORPORATE COORDINATED STORMWATER MANAGEMENT ON MULTIPLE DEVELOPMENT SITES AND/OR OFF-SITE CONTROLS. ADDITIONAL STORMWATER MANAGEMENT EFFORTS SHOULD BE ENCOURAGED."	THIS SUBJECT APPLICATION DOES NOT PROPOSE OFFSITE OR SHARED STORMWATER ALTERNATIVES. HOWEVER, POTENTIAL OFFSITE AREAS ARE IDENTIFIED ON THE CDP. CREDIT FOR THESE OFFSITE AREAS IS NOT TAKEN IN THE FAIRFAX COUNTY TYSONS CORNER COMPREHENSIVE PLAN STORMWATER CONFORMANCE SPREADSHEET, BUT THE POTENTIAL CREDIT AVAILABLE IS IDENTIFIED ON THE CDP IN THE APPLICATION OVERALL ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS SPREADSHEET.
"LID TECHNIQUES OF STORMWATER MANAGEMENT SHOULD ALSO BE INCORPORATED INTO NEW AND REDESIGNED STREETS WHERE ALLOWED AND PRACTICABLE."	LOW IMPACT DEVELOPMENT (LID) TECHNIQUES ARE PROVIDED FOR IN THE STREET DESIGN VIA THE URBAN BIO-RETENTION (TREE PIT). THESE TREE PITS PROVIDE BOTH QUANTITY AND QUALITY CONTROL AS OUTLINED BY DCR SPEC #9.
"RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHOULD BE PURSUED WHERE FEASIBLE. RESTORATION AND STABILIZATION TECHNIQUES THAT INCORPORATE ECOLOGICALLY AND AESTHETICALLY BENEFICIAL, VEGETATED APPROACHES ARE PREFERRED. OFF-SITE EFFORTS TO RESTORE AND/OR STABILIZE STREAMS IN TYSONS CORNER SHOULD ALSO BE ENCOURAGED. THE ABOVE GUIDELINES ARE INTENDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY TO ALLOW FOR IMPROVEMENTS TO THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER THROUGH NATURAL RESTORATIVE PROCESSES AND/OR THROUGH RESTORATION PROJECTS."	THIS SUBJECT APPLICATION DOES NOT PROPOSE ANY STREAM RESTORATION AS IT HAS NO OPEN CHANNELS OR STREAS WITHIN ITS BOUNDARY. IT IS BELIEVED THAT ANY STREAM RESTORATION SHOULD BE COMPREHENSIVE IN MANNER AND NOT PROVIDED IN A PIECE MEAL FORM TO BETTER PROVIDE AESTHETIC AND RECREATIONAL VALUE TO TYSONS CORNER.

COMPREHENSIVE PLAN IMPLEMENTATION

THE TYSON'S CORNER COMPREHENSIVE STORMWATER MANAGEMENT PLAN SHALL BE IMPLEMENTED VIA THE USE OF BIO-RETENTION (TRADITIONAL AND URBAN), INFILTRATION, VEGETATIVE ROOFS, SOIL AMENDMENTS, AND A DRY SWALE. THE ROADWAY ROW AND STREETSCAPE SHALL BE CONTROLLED, WHERE POSSIBLE, BY TREE PITS STRATEGICALLY PLACED TO MAXIMIZE RUNOFF INTERCEPTION. BUILDING ROOF AREAS HAVE BEEN CONTROLLED BY A VEGETATIVE ROOF DESIGNED TO TREAT BOTH VEGETATIVE AND NON-VEGETATIVE AREAS WHERE PRACTICABLE, OR THROUGH DISCONNECTION TO INFILTRATION, BIO-RETENTION, OR STORMWATER PLANTERS. BELOW IS A BREAKDOWN OF THE IMPLEMENTATION ITEMS ON THE STORMWATER CONFORMANCE CHECK LIST:

➢THE COMPUTATIONS PROVIDED ON SHEET C-17 CALCULATE THE REQUIRED TREATMENT VOLUME OF 1" OF RAINFALL OVER THE ENTIRE SITE CDP AREA REGARDLESS OF ROW DEDICATION.

➢THIS SUBJECT APPLICATION PROPOSES AN INNOVATIVE IMPLEMENTATION OF THE STORMWATER PLANTER AND INTENSIVE GREEN ROOF SPECIFICATIONS IDENTIFIED BY DCR WHICH IS IDENTIFIED AS TIER 3 IN THE COMPUTATIONS.

➢ACCESS TO THE STORMWATER BMP FACILITIES SHALL BE PROVIDED FOR BY ROOF TOP ACCESS FOR THE VEGETATIVE ROOFS AND STREET ACCESS FOR THE TREE PITS, INFILTRATION PRACTICES, TRADITIONAL BIO-RETENTION, AND PROPOSED VAULTS.

➢THE TREE PITS, INFILTRATION TRENCHES, BIO-RETENTION PRACTICES, VEGETATIVE ROOFS, AND THE DRY SWALE SHALL BE PRIVATELY MAINTAINED.

➢THE DESIGN SHALL CREATE A SAFE ENVIRONMENT FOR THE PUBLIC. THE EXTENSIVE VEGETATIVE ROOF AREAS SHALL NOT HAVE PUBLIC ACCESS WHEREAS THE TREE PITS SHALL BE PROVIDED WITH A GRATE OR FENCE TO PREVENT PEDESTRIAN CONFLICTS AND AS MENTIONED PREVIOUSLY WHERE EXCESSIVE TRAFFIC IS EXPECTED BIO-RETENTION TREE PITS HAVE NOT BEEN PROVIDED TO AVOID IMPEDING PEDESTRIAN MOVEMENT AND/OR CAUSE A SAFETY HAZARD. INTENSIVE GREEN ROOFS AND STORMWATER PLANTERS WILL BE DESIGNED AS PART OF THE ROOFTOP AMENITIES AND WILL NOT CREATE A SAFETY CONCERN.

➢THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. THIS FDP IS THE FIRST PHASE AND SHOWS THE PROPOSED SWM CONTROLS TO MEET THE GOALS/INTENT OF THE TYSONS CORNER COMPREHENSIVE PLAN.

➢CERTAIN PFM REQUIREMENTS SHALL NEED TO BE WAIVED IN ORDER TO MEET THE OVERALL CONCEPT OF THE PTC COMPREHENSIVE PLAN. A DETAILED LIST OF WAIVERS IS AS FOLLOWS:

1. IN KEEPING WITH THE URBAN CONCEPT OF THIS DEVELOPMENT, A MODIFICATION OF PFM STANDARD 12-0702 1B (2) IS REQUESTED TO PERMIT THE REDUCTION OF THE MINIMUM PLANTING AREA FOR TREES PLANTED TO SATISFY THE TREE COVER REQUIREMENT TO REDUCE THE WIDTH FROM EIGHT (8) FT. TO A MINIMUM OF SIX (6) FT. AS SHOWN ON THE CDP/FDP AND AS PROVIDED IN THE PROFFERS. STRUCTURAL SOILS WILL BE IMPLEMENTED TO ENHANCE SURVIVABILITY OF THE TREES SUBJECT TO HIS MODIFICATION REQUEST. REFER TO THE TYPICAL STREET SECTIONS FOR THE GRAPHIC PLANTING PLAN.
2. A WAIVER TO ALLOW STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMPS) TO BE SATISFIED BY UNDERGROUND SYSTEMS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, AS REFERENCED IN SECTION 6-0303.8 OF THE PFM. THIS WAIVER WAS SUBMITTED ON JANUARY 28, 2013 AND IS CURRENTLY UNDER REVIEW.
3. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1304.2F TO SET THE MINIMUM HORIZONTAL SETBACKS FOR BOTH INFILTRATING AND NON-INFILTRATING SYSTEMS FROM BUILDING FOUNDATIONS BE REDUCED TO ZERO (0) FEET IN ORDER TO FACILITATE INSTALLATION OF PERMEABLE PAVERS IN AN URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
4. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1304.2C TO ALLOW FOR INSTALLATION OF PERMEABLE PAVEMENT SYSTEMS THAT UTILIZE INFILTRATION TO BE CONSTRUCTED ON IN-SITU FILL MATERIAL, PROVIDED FIELD TESTS SHOW ADEQUATE INFILTRATION RATES EXIST FOR IN-SITU MATERIAL.
5. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1304.4I TO ALLOW UTILIZATION OF INFILTRATION RATES LESS THAN 0.52 IN/HR FOR DESIGN OF INFILTRATION SYSTEMS UTILIZED TO MEET THE COMPREHENSIVE PLAN REQUIREMENT FOR RETENTION OF THE FIRST 1" OF RUNOFF ON-SITE.
6. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1306.3F TO ALLOW FOR ANY DETENTION FACILITY LOCATED WITHIN A BUILDING OR GARAGE STRUCTURE TO BE GOVERNED BY BUILDING CODE REQUIREMENTS FOR ACCESS AND MAINTENANCE.
7. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1307.2C TO ALLOW FOR INSTALLATION OF BIO-RETENTION FACILITIES THAT UTILIZE INFILTRATION TO BE CONSTRUCTED ON IN-SITU FILL MATERIAL, PROVIDED FIELD TESTS SHOW ADEQUATE INFILTRATION RATES EXIST FOR IN-SITU MATERIAL.
8. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1307.2E TO SET THE MINIMUM HORIZONTAL SETBACKS FROM BUILDING FOUNDATIONS BE REDUCED TO FOUR (4) FEET IN ORDER TO FACILITATE INSTALLATION OF BIO-RETENTION SYSTEMS IN AN URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
9. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1307.2F TO ALLOW INSTALLATION OF BIO-RETENTION FACILITIES IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.
10. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1307.2G TO ALLOW FOR THE MAXIMUM DRAINAGE AREAS TO BIO-RETENTION FILTERS UTILIZED FOR RETENTION OF THE FIRST 1" OF RUNOFF BE ELIMINATED IN ORDER TO ACCOMMODATE ROOFTOP RUNOFF PIPED TO PROPOSED STRUCTURES.
11. ALL REQUESTED DEVIATIONS OF PFM SECTION 6-1309.2C TO ALLOW INSTALLATION OF TREE BOX FILTERS IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYSON'S CORNER DESIGN GUIDELINES.

➢SWM VAULTS SHALL EXTEND BEYOND THE BUILDING FACE WHERE IT SHALL NOT ADVERSELY IMPACT LANDSCAPING OR THE SIDEWALK ZONE TO PROVIDE ACCESS.

➢A 4'X4' ACCESS DOOR SHALL BE PROVIDED FOR THE VAULT MAINTENANCE.

DESIGN OF BEST MANAGEMENT PRACTICES

- INFILTRATION BMP'S

INFILTRATION TRENCHES, BIO-RETENTION, SOIL AMENDMENTS, AND A DRY SWALE HAVE BEEN PROVIDED WITH THIS PLAN TO PROMOTE INFILTRATION ON SITE. AS NOTED IN THE COMPREHENSIVE PLAN STORMWATER MANAGEMENT GOALS SECTION ABOVE, A LARGE PORTION OF THE APPLICATION IS UNDERGROUND GARAGE, FUTURE ROW, AND EXISTING BUILDINGS AND INFRASTRUCTURE; LIMITING THE POTENTIAL AREAS OF INFILTRATION FACILITIES ON SITE. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO SITE PLAN TO DETERMINE THE SUITABILITY OF THE INFILTRATION FACILITIES. AS CAN BE SEEN ON THIS SHEET A WAIVER FOR CONSTRUCTION ON FILL MATERIAL, POSSIBLE INFILTRATION RATE OF LESS THAN 0.52 IN/HR, AND HORIZONTAL SETBACK FROM BUILDING FOUNDATION SHALL BE REQUIRED WITH THE SUBSEQUENT SITE PLAN. THESE WAIVERS ARE NEEDED IN ORDER TO HELP MEET THE REQUIREMENTS OF THE TYSONS CORNER COMPREHENSIVE PLAN STORMWATER REQUIREMENTS OF RETAINING THE FIRST 1" OF RAINFALL.

- RAINWATER HARVESTING

RAINWATER HARVESTING HAS NOT BEEN PROPOSED WITH THIS APPLICATION.

- RUNOFF REDUCTION PRACTICES

THE PROPOSED RUNOFF REDUCTION PRACTICES SHALL INCLUDE VEGETATIVE ROOFS, INFILTRATION, BIO-RETENTION, SOIL AMENDMENTS, AND A DRY SWALE. BELOW IS A BREAKDOWN OF THE RUNOFF REDUCTION PRACTICES ITEMS ON THE STORMWATER CONFORMANCE CHECK LIST:

➢RUNOFF REDUCTION BMP'S IN THE FORM OF URBAN BIO-RETENTION (TREE PITS) SHALL BE PROVIDED WITH UNDER-DRAINS AND A SUBSURFACE STONE LAYER AS DETAILED IN DCR SPEC#9

➢BOTH THE BIO-RETENTION TREE PITS AND VEGETATIVE ROOF SYSTEM SHALL CONFORM TO DCR SPEC # 9 AND #5 RESPECTIVELY.

➢AS MENTIONED EARLIER DUE TO SITE CONSTRAINTS THE ENTIRE 1.0" OF RAINFALL COULD NOT BE CAPTURED/CONTROLLED DUE TO CONSTRAINTS WITH THE EXISTING BUILDIGS AND INFRASTRUCTURE. THE PROPOSED PLANS CAN ACCOUNT FOR 0.65" (0.69" FOR THE LEED SPECIFIED STORM EVENT) AS CAN BE SEEN ON THE TYSONS STORMWATER CONFORMANCE SPREADSHEET (SEE SHEET C-17).

- TIER 2 INNOVATIVE BMP'S (ACCEPTED IN OTHER JURISDICTIONS)

THERE ARE NO TIER 2 BMP'S BEING PROPOSED WITH THIS SUBJECT APPLICATION. AS MENTIONED PREVIOUSLY SITE CONSTRAINTS LIMIT THE APPLICABILITY OF VARIOUS BMP PRACTICES.

- TIER 3 INNOVATIVE BMP'S (NON-APPROVED)

1. IT IS UNDERSTOOD THAT THE INNOVATIVE IMPLEMENTATION/MODIFICATION OF THE DCR SPEC #9A FOR USE WITH A STORMWATER PLANTER LOCATED ON A ROOF SHALL BE CONSIDERED A TIER 3 BMP. THE TREATMENT OF THE IMPERVIOUS SURFACES DIRECTED TO THE PRACTICE SHALL BE CONSIDERED TIER 3 CREDIT WITH THE FOOTPRINT OF THE FACILITY CONSIDERED TIER 1. THE DESIGN OF THE TREATMENT PROVIDED BY THESE FACILITIES FOLLOW THE DESIGN GUIDELINES PROVIDED IN DCR SPEC #9A WITH SPECIAL DETAILS PROVIDED ON C-21 FOR THE DISCONNECTION OF HIGHRISE ROOF WATER TO THE LOWER PODIUM ROOF AREAS ABOVE THE UNDERGROUND GARAGE.
2. FURTHER IT IS UNDERSTOOD THAT THE INNOVATIVE IMPLEMENTATION/MODIFICATION OF THE DCR SPEC #5 FOR INTENSIVE GREEN ROOF TO ALLOW ADJACENT HARDSCAPE AREAS TO SHEET FLOW INTO THE PERVIOUS AREAS SHALL BE CONSIDERED A TIER 3 BMP. THE TREATMENT OF THE IMPERVIOUS SURFACES DIRECTED TO THE PRACTICE SHALL BE CONSIDERED TIER 3 CREDIT WITH THE FOOTPRINT OF THE FACILITY CONSIDERED TIER 1. THE DESIGN OF THE TREATMENT PROVIDED BY THESE FACILITIES FOLLOWS THE DESIGN GUIDELINES PROVIDED IN DCR SPEC #5 WITH SPECIAL DETAILS PROVIDED ON C-21 FOR THE SHEETFLOW OF IMPERVIOUS WATER TO THE FACILITY FOR TREATMENT.
   SEE THE NEXT SECTION BELOW FOR POTENTIAL MITIGATION OF TIER THREE PRACTICES PROPOSED IN THE EVENT THEY ARE FOUND TO BE IMPRACTICABLE AT FINAL SITE PLAN.

- OFFSITE OR SHARED FACILITIES

CURRENTLY THE SUBJECT APPLICATION DOES NOT PROPOSE THE USE OF OFFSITE OR SHARED SWM FACILITIES, BUT POTENTIAL AREAS ARE IDENTIFIED ON THE CDP. THE ADDITIONAL RETENTION OF OFF SITE WATER COULD HELP MITIGATE ANY SHORT COMINGS OR INFEASIBILITY OF TIER 3 APPLICATIONS WITH THE FINAL ENGINEERED SITE PLAN.

- CONFORMANCE WITH COMPREHENSIVE PLAN STORMWATER GOALS

IT IS THE BELIEF OF THE UNDERSIGNED ENGINEER THAT THIS SITE PLAN ADEQUATELY HANDLES, TO THE MAXIMUM EXTENT POSSIBLE, THE RUNOFF REDUCTION REQUIREMENTS OF THE TYSONS CORNER COMPREHENSIVE PLAN. BELOW IS SUMMARY OF THE RUNOFF REDUCTION PRACTICES UTILIZED IN THE STORMWATER MANAGEMENT PLAN AND THEIR CONFORMANCE TO THE OVERALL GOAL OF THE COMPREHENSIVE STORMWATER MANAGEMENT PLAN FOR THIS SUBJECT APPLICATION.

➢AS MENTIONED PREVIOUSLY THE PROPOSED DESIGN DOES NOT CONTROL/CAPTURE THE FIRST ENTIRE 1.0" OF RAINFALL. THIS SUBJECT APPLICATION PROPOSES TO CONTROL CAPTURE, TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST 0.65" (0.69" WHEN CONSIDERING THE LEED SPECIFICIED EVENT FOR THIS PART OF THE COUNTRY) OF RAINFALL.

➢THIS PROPOSED DESIGN SHALL OPTIMIZE, TO THE MAXIMUM EXTENT FEASIBLE, RUNOFF REDUCTION VIA THE EMPLOYMENT OF VEGETATIVE ROOFS, INFILTRATION, BIO-RETENTION, SOIL AMENDMENTS, AND DRY SWALE. 61% OF THE TOTAL SITE AREA IS CAPTURED ALONG WITH 0.65" (0.69" WHEN CONSIDERING THE LEED SPECIFIED RAIN FALL EVENT) OF THE FIRST 1 INCH OF RAINFALL.

➢AS MENTIONED PREVIOUSLY SITE CONSTRAINTS HAVE LIMITED THE USE OF MANY BMP'S PRACTICES (GREEN ROOF, INFILTRATION, ETC.)

➢THE PROPOSED DESIGN DOES CONTROL PEAK FLOWS BY REDUCING THE RUNOFF VOLUME AND AS SUCH THE PEAK DISCHARGE IS REDUCED. PER THE PFM ANTICEDENT MOISTURE IN THE SOIL OF THE PROPOSED PRACTICES IS NOT A DESIGN VARIABLE FOR THE RATIONAL METHOD AND FOR RAINFALL EVENTS WITH RETURN FREQUENCIES LESS THAN OR EQUAL TO 10 YEARS. AS SUCH ADEQUATE PFM DETENTION IS PROVIDED VIA THE LID PRACTICES PROPOSED AND IN COMBINATION WITH THE PROPOSED SWM VAULT IN BUILDING C AND THE EXISTING DETENTION VAULTS AND POND SERVING EXISTING BUILDING "D" AND "E". AT SITE PLAN DETAILED ROUTING WILL BE PROVIDED FOR PFM DETENTION AND THE OUTFALL ANALYSIS.

➢STREET RUNOFF HAS BEEN ADDRESSED VIA THE USE OF URBAN BIO-RETENTION (TREE PITS) THAT ARE DESIGNED IN ACCORDANCE WITH DCR SPEC #9.

➢STREAM STABILIZATION AND RESTORATION IS NOT PROPOSED WITH THIS SUBJECT APPLICATION .

➢THIS SUBJECT APPLICATION SHALL CONFORM TO THE PFM'S SWM REQUIREMENTS FOR ADEQUATE OUTFALL, DETENTION, WATER QUALITY, AND OVERLAND RELIEF. SEE SHEETS C-9 THRU C-13 AND C-14 FOR DETAILS.

- SUPPLEMENTAL INFORMATION/JUSTIFICATION REQUEST

IT IS NOT PRACTICABLE TO RETAIN ALL OF THE SUBJECT SITE, INCLUDING AREAS OF THE SITE PERIPHERY, DUE TO VARIOUS CONSTRAINTS INCLUDING SITE GRADING, OTHER COMPREHENSIVE PLAN REQUIREMENTS, AND VDOT REQUIREMENTS. COMPLIANCE WITH THE COMPREHENSIVE PLAN GOAL FOR CAPTURING/RETAINING THE FULL 1-INCH RAIN EVENT IS NOT PRACTICABLE FOR THIS APPLICATION DUE TO THE AFORE MENTIONED CONSTRAINTS. IT HAS BEEN SHOWN THIS SHORTCOMING CAN BE MITIGATED WITH POTENTIAL OFFSITE TREATMENT AREAS AROUND THE PERIPHERY OF THE SITE. THE CDP APPLICATION HAS IDENTIFIED AN ADDITIONAL 0.07 INCHES OF POTENTIAL RETENTION FOR THE 1" GOAL. AT THIS TIME THE FACILITIES ARE NOT PROPOSED, BUT MAY BE INCLUDED WITH SUBSEQUENT SITE PLAN SUBMISSIONS TO BE IN COMPLIANCE OF THE 1" GOAL.

IN FURT

BUILDING C FDP OVERALL SWM COMPUTATIONS – TYSONS CORNER CONFORMANCE SPREADSHEET

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012

Site Name: JBGR - Tysons West Rezoning

Description: DA "A" Building C; DA "B" Buildings A&B; DA "C" Building "E"; DA "D" Building "D"

Post-Development Land Cover

data input cells highlighted in yellow

Drainage Area A

Land Cover Type	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land					0.00
Managed Turf (acres)				0.42	0.42
Impervious Cover (acres)				3.22	3.22
				Total	3.64

Drainage Area B

Land Cover Type	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land					0.00
Managed Turf (acres)				0.04	0.04
Impervious Cover (acres)				2.13	2.13
				Total	2.17

Drainage Area C

Land Cover Type	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land					0.00
Managed Turf (acres)				0.96	0.96
Impervious Cover (acres)				5.26	5.26
				Total	6.22

Drainage Area D

Land Cover Type	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land					0.00
Managed Turf (acres)				0.18	0.18
Impervious Cover (acres)				3.79	3.79
				Total	3.97

Drainage Area E

Land Cover Type	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land					0.00
Managed Turf (acres)					0.00
Impervious Cover (acres)					0.00
				Total	0.00

Rv Coefficients

Land Cover Type *	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils
Forest / Preserved Open Space - Undisturbed, protected forest and open space or reforested land	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

** See the instructions tab for a definition of each land cover type.*

Land Cover Summary

Forest / Preserved Open Space (ac)	0.00
Weighted Rv (forest)	0.00
% Forest	0%
Managed Turf (acres)	1.60
Weighted Rv (turf)	0.25
% Managed Turf	10%
Impervious Cover (acres)	14.40
Rv (impervious)	0.95
% Impervious	90%
Total Site Area (acres)	**16.00**
Site Rv	**0.88**

Rainfall / Runoff Summary

Target Rainfall to Retain Onsite (inches)	1.0
1-inch Rainfall Volume for entire site (cf)	**58,080**
Volume Not Converted to Runoff (cf)	**6,970**
1-inch Runoff Volume for entire site (cf)	**51,110**

Runoff Reduction Summary

Target Runoff Reduction Volume (cf)	51,110
Runoff Reduction Volume Achieved (cf)	31,072
Total Runoff Volume Retained (cf)	38,041
Total Area of Site Captured in a BMP (acres)	10.02

Conformance with Comprehensive Plan Goal

Total Site Area Captured by a BMP (%)	**63%**
Rainfall Depth Retained Onsite (inch)	**0.65**

*SEE TABLE TO THE RIGHT IDENTIFYING ALTERNATE/ADDITIONAL STORMWATER OPTIONS

FDP OVERALL ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS

TOTAL RUNOFF REDUCTION REQUIRED	**58,080 CFT**	**SEE OVERALL COMPUTATIONS SHEET 1 (SHOWN HERE)**
TOTAL RUNOFF REDUCTION PROVIDED	**38,041 CFT**	
RAINFALL DEPTH RETAINED ONSITE	**0.65 IN**	
SITE AREA	**16.00**	

STORAGE PROVIDED IN PROPOSED RUNOFF REDUCTION PRACTICES DURING LEED EVENT

RUNOFF REDUCTION PRACTICE	CONTRIBUTING DA	DA RV	1" VOL REQUIRED (CF)	VOL PROVIDED (CF)	LEED RUNOFF RETAINED (INCH)	EXCESS VOLUME	EQUIVALENT DEPTH RETAINED
BIORETENTION PRACTICES	3.32	0.87	11032	12493	1.20	2062	0.04
EXTENSIVE GREEN ROOF	0.24	0.95	834	1053	1.26	219	0.00
INTENSIVE GREEN ROOF(DISCONNECTED IMPERVIOUSNESS)	0.23	0.95	787	787	1.00	0	0.00
INTENSIVE GREEN ROOF (FOOTPRINT AREA)	0.08	0.95	282	282	1.00	0	0.00
INFILTRATION PRACTICES	3.47	0.88	11077	11785	1.06	708	0.01
DISCONNECTION TO STORMWATER PLANTERS	1.47	0.95	5069	5372	1.06	302	0.01
***NOTE: LEED SPECIFIED STORM FOR THIS PART OF THE COUNTRY IS 3.2"**					**TOTAL EXCESS VOL**	**3292**	0.06

OVERALL APPLICATION BREAKDOWN BY PRACTICE

LOW IMPACT DEVELOPMENT PRACTICE	INCHES CONTRIBUTED TO OVERALL		
BIORETENTION PRACTICES	0.19	IN	**TIER 1**
EXTENSIVE GREEN ROOF	0.01	IN	
INTENSIVE GREEN ROOF (FOOTPRINT AREA)	0.005	IN	**0.55 IN**
INFILTRATION PRACTICES	0.19	IN	
DRY SWALE	0.02	IN	
RAINFALL NOT CONVERTED TO RUNOFF (INITIAL ABSTRACTION)	0.12	IN	
SOIL AMENDMENTS	0.01	IN	
STORMWATER PLANTERS	0.09	IN	**TIER 3**
INTENSIVE GREEN ROOF (DISCONNECTED IMPERVIOUSNESS)	0.01	IN	**0.10 IN**
TOTAL	**0.65**	**IN**	

OVERALL APPLICATION BREAKDOWN BY BLOCK

	DRAINAGE AREA	BUILDING /BLOCK	INCHES RETAINED
	A	BUILDING C	0.96
	B	EX PARKING	0.06
	C	EX BUILDING E	0.65
	D	EX BUILDING D	0.69

Application No: **FDP 2011-HM-032** Staff: **S.Lin**

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: **Aug 23, 2013**

SEE CONDITIONS DATED:

Date of Final Approval: **Jul 31, 2013** (_BOS) (XPC) (_BZA)

Comments: **Develop. Conds. Dated 7/31/2013**

Associated W/ RZ 2011-HM-032

Sheet **18** of **60**

FDP BMP SIZING COMPUTATIONS

INFILTRATION — Tyson's Corner Infiltration Sizing chart

APPLICATION DRAINAGE AREA	INFILTRATION AREA "IN" & "PAV"	DA TO INFILTRATION (AC.)	Rv	Tv REQUIRED (CF)	Tv PROVIDED (CF)	SURFACE AREA PROVIDED (SF)	STORAGE IN EX DETENTION STR	GRAVEL DEPTH (FT)	GRAVEL VOLUME PROVIDED (CF)	PONDING Vr	GRAVEL Vr	Design Review: REQ'D Vol.	TREATMENT CREDIT	APPLICATION DRAINAGE AREA
DRAINAGE AREA "A"	IN-1	0.47	0.83	**1558**	**1680**	1200	N/A	3.5	4200	N/A	0.4	Yes	0.47	DRAINAGE AREA "A"
	TOTALS=	*0.47*		***1558***	***1680***	*1200*						*TOTAL=*	*0.47*	
DRAINAGE AREA "C"	IN-2	0.75	0.85	**2546**	**2571**	1325	N/A	4.85	6426.25	N/A	0.4	Yes	0.75	DRAINAGE AREA "C"
	PAV-3	0.10	0.95	**379**	**888**	4440	N/A	0.5	2220	1	0.4	Yes	0.10	
	TOTALS=	*0.75*		***2546***	***2571***	*1325*						*TOTAL=*	*0.75*	
DRAINAGE AREA "D"	IN-3	2.25	0.88	**7906**	**7929**	3625	4115	2.63	9533.75	1	0.4	Yes	2.25	DRAINAGE AREA "D"
	PAV-2	0.05	0.95	**190**	**410**	2050	N/A	0.5	1025	1	0.4	Yes	0.05	
	TOTALS=	*2.25*		***7906***	***7929***	*3625*						*TOTAL=*	*2.25*	

Note: Sizing based on DCR Spec# 8
Max Depth 6 FT
*Tv(RED'Q)=1.1"*Rv*A/12*
*Tv(PROV'D)=SA*SUM OF STORAGE*

SWM PLANTER — Tyson's Corner Stormwater Planter Sizing chart

APPLICATION DRAINAGE AREA	SWM PLANTER AREA	DA TO PLANTER	Rv	Tv REQUIRED (CF)	Tv PROVIDED (CF)	SURFACE AREA PROVIDED (SF)	PONDING DEPTH (INCH)	SOIL DEPTH PROVIDED (FT)	SOIL VOLUME PROVIDED (CF)	GRAVEL DEPTH PROVIDED (IN)	GRAVEL VOLUME PROVIDED (CF)	PONDING Vr	SOIL Vr	GRAVEL Vr	TREATMENT CREDIT RECEIVED (AC.)
DRAINAGE AREA "A"	1	0.85	0.95	**2931**	**2934**	2910	2.1	2	5820	10	2425	1	0.25	0.4	0.85
	2	0.62	0.95	**2138**	**2167**	2000	0	3	6000	10	1660	1	0.25	0.4	0.62
	TOTALS=	*1.47*		***5069***	***5372***	*5160*									1.47

Note: Sizing based on DCR Spec# 9 Appendix A (Urban Bio-retention)
Min SA(REQ'D)=Tv/2
*Tv(RED'Q)=1"*Rv*A/12*
*Tv(PROV'D)=SA*SUM OF STORAGE*

BIO–RETENTION — Tyson's Corner Urban Bioretention Sizing chart

APPLICATION DRAINAGE AREA	BIORETENTION AREA - "TP" & "BR"	DA TO TREE PIT (AC.)	Rv	Tv REQUIRED	Tv PROVIDED(CF)	SURFACE AREA PROVIDED (SF)	PONDING DEPTH (INCH)	SOIL VOLUME PROVIDED (CF)	GRAVEL VOLUME PROVIDED (CF)	PONDING Vr	SOIL Vr	GRAVEL Vr	Design Review: REQ'D Vol. MET?	TREATMENT CREDIT RECEIVED	APPLICATION DRAINAGE AREA
DRAINAGE AREA "A"	TP-1 (2 Trees)	0.13	0.95	**448**	**490**	144	2	1400	290	1	0.25	0.4	Yes	0.13	DRAINAGE AREA "A"
	TP-2 (4 Trees)	0.33	0.95	**1138**	**1180**	400	6	2800	700	1	0.25	0.4	Yes	0.33	
	TP-3 (4 Trees)	0.27	0.87	**853**	**980**	288	2	2800	580	1	0.25	0.4	Yes	0.27	
	TP-4 (1 Tree)	0.04	0.95	**138**	**245**	72	2	700	145	1	0.25	0.4	Yes	0.04	
	TOTALS=	*0.77*		***2577***	***2895***	*904*							*TOTAL=*	*0.77*	
DRAINAGE AREA "C"	TP-6 (4 Trees)	0.41	0.75	**1116**	**1260**	840	2	3360	700	1	0.25	0.4	Yes	0.41	DRAINAGE AREA "C"
	TP-7 (2 Trees)	0.09	0.95	**310**	**350**	300	2	800	250	1	0.25	0.4	Yes	0.09	
	TP-8 (2 Trees)	0.14	0.95	**483**	**493**	385	6	800	250	1	0.25	0.4	Yes	0.14	
	TP-9 (2 Trees)	0.26	0.95	**897**	**900**	500	6	1800	500	1	0.25	0.4	Yes	0.26	
	TP-10 (6 Trees)	0.41	0.95	**1414**	**1425**	750	6	3000	750	1	0.25	0.4	Yes	0.41	
	BR-1	0.96	0.81	**3528**	**4729**	3550	6	7100	2947	1	0.25	0.4	Yes	0.96	
	TOTALS=	*2.27*		***7748***	***9156***	*6325*							*TOTAL=*	*2.27*	
DRAINAGE AREA "D"	TP-11 (2 Trees)	0.09	0.95	**310**	**372**	207	6	800	171	1	0.25	0.4	Yes	0.09	DRAINAGE AREA "D"
	TP-18 (3 Trees)	0.19	0.95	**655**	**683**	350	6	1800	145	1	0.25	0.4	Yes	0.19	
	TOTALS=	*0.28*		***310***	***1055***	*557*							*TOTAL=*	*0.28*	

Note: Sizing based on DCR Spec# 9
Min SA(REQ'D)=Tv/2
*Tv(RED'Q)=1*Rv*A/12 (Urban Bioretention)*
*Tv(RED'Q)=1.25*Rv*A/12 (Traditional Bioretention)*
*Tv(PROV'D)=SA*SUM OF STORAGE*
TYPICAL SURFACE AREA PER TREE = 72 SF *TYPICAL SOIL VOLUME PER TREE = 700 CF*

NOTE:
TP-15 INCLUDES 0.12 ACRES OF OFFSITE TREATMENT ON WESTWOOD CENTER DRIVE
TP-16 INCLUDES 0.12 ACRES OF OFFSITE TREATMENT ON WESTWOOD CENTER DRIVE

DRY SWALE — Tyson's Corner Dry Swale Sizing chart

APPLICATION DRAINAGE AREA	Dry Swale "DS"	DA TO DRY SWALE (AC.)	Rv	Tv REQUIRED (CF)	Tv PROVIDED (CF)	Tv PROVIDED IN BR DOWNSTREAM	SURFACE AREA PROVIDED (SF)	PONDING DEPTH (INCH)	SOIL DEPTH (CF)	SOIL VOLUME PROVIDED (CF)	GRAVEL DEPTH (SF)	GRAVEL VOLUME	PONDING Vr	SOIL Vr	GRAVEL Vr	Design Review: REQ'D Vol.	TREATMENT CREDIT RECEIVED	APPLICATION DRAINAGE AREA
DRAINAGE AREA "A"	DS-1	0.56	0.76	**1545**	**949**	**1200**	575	6	3	1725	1	575	1	0.25	0.4	Yes	0.56	DRAINAGE AREA "A"
	TOTALS=	*0.56*		***1545***	***949***		*575*									*TOTAL=*	*0.56*	

Note: Sizing based on DCR Spec# 10
*Min SA(REQ'D)=1.1*Tv*
*Tv(RED'Q)=1"*Rv*A/12*
*Tv(PROV'D)=SA*SUM OF STORAGE*

NOTE: ADDITIONAL 1,200 CF OF STORAGE IS PROVIDED IN BIORETENTION DOWNSTREAM

GREEN ROOF — Tyson's Corner Green Roof Sizing chart

APPLICATION DRAINAGE AREA	GREEN ROOF DRAINAGE AREA "GR"	INTENSIVE/EXTENSIVE SYSTEM	DA TO GREEN ROOF (Ac.)	Rv	Tv REQ'D (CFT)	Tv PROV'D (CFT)	SURFACE AREA PROV'D (SFT)	SOIL DEPTH (In)	MEDIA POROSITY	TREATMENT CREDIT RECEIVED (AC.)
DRAINAGE AREA "A"	GR-1	INTENSIVE (TIER 3)	0.20	0.95	690	610	3050	8	0.30	0.18
	GR-2	INTENSIVE (TIER 3)	0.11	0.95	379	317	1585	8	0.30	0.09
	GR-3	EXTENSIVE (TIER 1)	0.02	0.95	69	102	1020	4	0.30	0.02
	GR-4	EXTENSIVE (TIER 1)	0.06	0.95	207	275	2750	4	0.30	0.06
		TOTALS=	0.39		1345	1304	8405			0.35
DRAINAGE AREA "C"	GR-5	EXTENSIVE (TIER 1)	0.02	0.95	69	93	925	4	0.30	0.02
		TOTALS=	0.02	0.95	69	93	925			0.02
DRAINAGE AREA "D"	GR-6	EXTENSIVE (TIER 1)	0.06	0.95	207	253	2525	4	0.30	0.06
		TOTALS=	0.06		207	253	2525			0.06

Note: Sizing based on DCR Spec# 5
*Tv(RED'Q)=1"*Rv*DA/12*
*Tv(PROV'D)=(Surface Area*Soil Depth*Porosity)/12*
Runoof Reduction is assumed to be 100% of Tv Req'd or Tv Prov'd (whichever is less)

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SITE OVERALL SWM COMPUTATIONS AND SUPPORTING DATA

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES. BC DWN. BC

SCALE: N/A

PROJECT/FILE NO. V7405D

SHEET NO. C–17

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PFM DETENTION COMPUTATIONS

Pond Estimated Storage Detailed Report: Tysons West Promenade

Element Details

ID	15	Notes
Label	Tysons West Promenade	

2YR DETENTION VOLUME REQUIRED=13,940 CF

Detention Storage Estimates -- Target Peak Outflow Rate

Return Event	Peak In (ft³/s)	Target (ft³/s)	Lower (ac-ft)	Linear (ac-ft)	Curvilinear (ac-ft)	Upper (ac-ft)	Total (ac-ft)
2	16.42	4.75	0.143	0.229	0.294	0.320	0.555
10	21.90	8.44	0.127	0.231	0.294	0.346	0.738

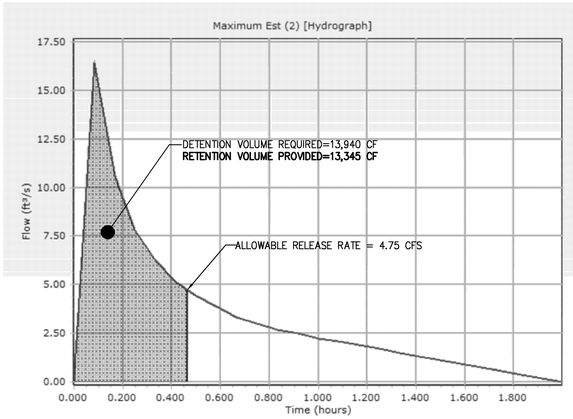
10YR DETENTION VOLUME REQUIRED=15,075 CF

Calculation Time Ranges

Return Event	Lower (From) (hours)	Lower (To) (hours)	Linear (From) (hours)	Linear (To) (hours)	Curvilinear (From) (hours)	Curvilinear (To) (hours)	Upper (From) (hours)	Upper (To) (hours)	Total (From) (hours)	Total (To) (hours)
2	0.024	0.463	0.000	0.463	0.000	0.463	0.000	0.463	0.000	2.000
10	0.032	0.330	0.000	0.330	0.000	0.330	0.000	0.330	0.000	2.000

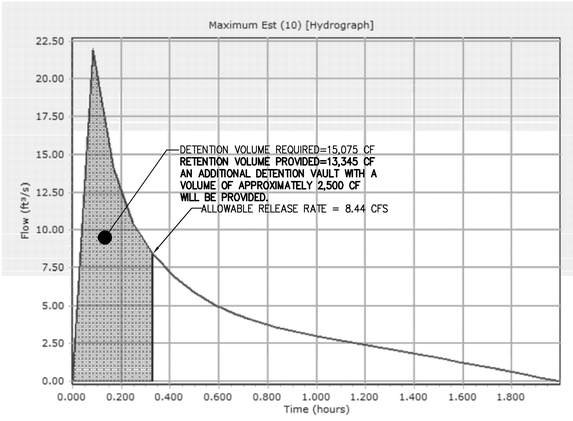
2 YEAR 2 HOUR HYDROGRAPH

Pond Estimated Storage Detailed Report: Tysons West Promenade



10 YEAR 2 HOUR HYDROGRAPH

Pond Estimated Storage Detailed Report: Tysons West Promenade



ALLOWABLE RELEASE RATE

PER LEED CREDIT 6.1 – FOR SITES GREATER THAN 50% IMPERCIOUS IN TEH EXISTING CONDITION, THE 1 AND 2 YEAR 24 HOUR STROM POST–DEVELOPED RELEASE RATES MUST REDUCE THE EXISTING CONDITION RELEASE RATE BY 25%.

EXISTING CONDITIONS 2 YR RELEASE RATE = 6.33 CFS

75% OF EXISTING RELEASE RATE = 6.33 X 75% = **4.75 CFS – 2YR LEED ALLOWABLE RELEASE RATE**
8.44 CFS – 10YR PFM ALLOWABLE RELEASE RATE

TYSONS CORNER 1" COMPLIANCE COMPUTATIONS

BUILDING 'C' DRAINAGE AREA "A" SWM SUMMARY:

LOW IMPACT DEVELOPMENT STRATEGIES USED:
- INFILTRATION PRACTICES
- VEGETATED ROOFS
- ROOF TOP DISCONNECTION
- BIO–RETENTION PRACTICES
- SOIL AMENDMENTS

TOTAL RETENTION VOLUME PROVIDED ON SITE FOR 1" RAINFALL EVENT
10,597 CF – 0.93 IN

LEED POTENTIAL RETENTION FOR BUILDING 'C' – DRAINAGE AREA "A"
13,345 CF – 1.01 IN

BUILDING C ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS

RESIDENTIAL BUILDING "C"

TOTAL RUNOFF REDUCTION REQUIRED	13,213 CFT
TOTAL RUNOFF REDUCTION PROVIDED	10,904 CFT
RAINFALL DEPTH RETAINED ONSITE	0.96 IN
SITE AREA (AC)	3.64

STORAGE PROVIDED IN PROPOSED RUNOFF REDUCTION PRACTICES DURING LEED EVENT

RUNOFF REDUCTION PRACTICE	CONTRIBUTING DA	DA RV	1" VOL REQUIRED (CF)	VOL PROVIDED (CF)	LEED RUNOFF RETAINED (INCH)	EXCESS VOLUME	EQUIVALENT DEPTH RETAINED
BIORETENTION PRACTICES	0.77	0.93	2603	2895	1.11	292	0.02
INFILTRATION PRACTICES	0.47	0.83	1418	1680	1.19	262	0.01
EXTENSIVE GREEN ROOF	0.07	0.95	254	377	1.49	123	0.01
INTENSIVE GREEN ROOF (DISCONNECTED IMPERVIOUSNESS)	0.21	0.95	724	695	0.96	-29	0.00
INTENSIVE GREEN ROOF (FOOTPRINT AREA)	0.11	0.95	367	464	1.26	97	0.01
DISCONNECTION TO STORMWATER PLANTERS	1.35	0.95	4661	4963	1.06	302	0.02
STORMWATER PLANTERS (FOOTPRINT AREA)	0.12	0.95	409	409	1.00	0	0.00
*NOTE: LEED SPECIFIED STORM FOR THIS PART OF THE COUNTRY IS 3.2"					TOTAL =	1048	0.08

OVERALL APPLICATION BREAKDOWN BY PRACTICE

OVERALL APPLICATION BREAKDOWN BY PRACTICE	INCHES CONTRIBUTED TO OVERALL		
BIORETENTION PRACTICES	0.20	IN	TIER 1 0.55 IN
EXTENSIVE GREEN ROOF	0.02	IN	
INTENSIVE GREEN ROOF (FOOTPRINT AREA)	0.03	IN	
STORMWATER PLANTERS (FOOTPRINT AREA)	0.03	IN	
INFILTRATION PRACTICES	0.11	IN	
RAINFALL NOT CONVERTED TO RUNOFF	0.13	IN	
SOIL AMMENDMENTS	0.04	IN	
INTENSIVE GREEN ROOF (DISCONNECTED IMPERVIOUSNESS)	0.05	IN	TIER 3 0.41 IN
STORMWATER PLANTERS	0.35	IN	
TOTAL	0.96	IN	

LEED COMPUTATIONS

GRAPHICAL PEAK DISCHARGE METHOD Version 2.00
Project : TYSONS WEST User: BC Date:
County : State: Checked: ____ Date: _____
Subtitle: DRAINAGE AREA 'A' EXISTING CONDITIONS

Data: Drainage Area : 3.64 Acres
Runoff Curve Number : 88
Time of Concentration: 0.10 Hours
Rainfall Type : II
Pond and Swamp Area : NONE

Storm Number	1	2
Frequency (yrs)	1	2
24-Hr Rainfall (in)	2.7	3.2
Ia/P Ratio	0.10	0.09
Used	0.10	0.10
Runoff (in)	1.55	2.00
Unit Peak Discharge (cfs/acre/in)	1.578	1.578
Pond and Swamp Factor 0.0% Ponds Used	1.00	1.00
Peak Discharge (cfs)	9	11

RUNOFF VOLUME EXISTING CONDITIONS

1YR STORM: 3.64 AC X 1.55 (IN) X 1FT/12IN X 43,560=20,480 CF
2YR STORM: 3.64 AC X 2.00 (IN) X 1FT/12IN X 43,560=26,426 CF

LEED REQUIREMENT GREATER THAN 50% IMPERVIOUS

1YR STORM: 20,480 CF X 75% = 15,360 CF
2YR STORM: 26,426 CF X 75% = 19,819 CF

GRAPHICAL PEAK DISCHARGE METHOD Version 2.00
Project : TYSONS WEST User: BC Date:
County : State: Checked: ____ Date: _____
Subtitle: DRAINAGE AREA 'A' PROPOSED CONDITIONS

Data: Drainage Area : 3.64 Acres
Runoff Curve Number : 95
Time of Concentration: 0.10 Hours
Rainfall Type : II
Pond and Swamp Area : NONE

Storm Number	1	2
Frequency (yrs)	1	2
24-Hr Rainfall (in)	2.7	3.2
Ia/P Ratio	0.04	0.03
Used	0.10	0.10
Runoff (in)	2.16	2.64
Unit Peak Discharge (cfs/acre/in)	1.578	1.578
Pond and Swamp Factor 0.0% Ponds Used	1.00	1.00
Peak Discharge (cfs)	12	15

Application No: FDP 2011-HM-032 Staff: S.Lin
APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 19 of 60

RUNOFF VOLUME PROPOSED CONDITIONS

1YR STORM: 3.64 AC X 2.16 (IN) X 1FT/12IN X 43,560=28,540 CF
2YR STORM: 3.64 AC X 2.64 (IN) X 1FT/12IN X 43,560=34,882 CF

TOTAL VOLUME ALLOWABLE RELEASE

PER LEED THE POST–DEVELOPMENT VOLUME FOR THE 1 YR AND 2 YR STORMS MUST NOT EXCEED 75% OF THE EXISTING CONDITIONS VOLUME. STORMWATER MANAGEMENT LID PRACTICES ON SITE PROVIDE A TOTAL RETENTION STORAGE VOLUME OF 13,777 CF. SEE BELOW FOR PROPOSED 1 AND 2 YEAR STORM VOLUMES LEAVING THE SITE.

1YR STORM: 28,540 CF – 13,345 CF = **15,195 CF < 75% OF EXISTING VOLUME**
2YR STORM: 34,882 CF – 13,345 CF = **21,537 CF > 75% OF EXISTING VOLUME**

THE LEED AREA ASSUMED FOR THESE COMPUTATIONS WAS THE TOTAL DRAINAGE AREA FOR BUILDING 'C'. THE FINAL LEED BOUNDARY WILL BE DETERMINED WITH THE SITE PLAN AS THIS FDP IS FOR THE ENTIRE SITE AREA. FINAL LEED COMPUTATIONS WILL BE PROVIDED WITH THE FINAL SITE PLAN

TYSONS CORNER COMP PLAN CONFORMANCE SPREADSHEET DRAINAGE AREA 'A' – BUILDING C

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012 **Site Name: JBGR - Tysons West Rezoning**

Drainage Area A Post-Development Land Cover	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space	0.00	0.00	0.00	0.00	0.00
Managed Turf	0.00	0.00	0.00	0.42	0.42
Impervious Cover	0.00	0.00	0.00	3.22	3.22
			D.A Total (acres)		3.64

Rv (turf) 0.25
Rv (impervious) 0.95

data input cells highlighted

Runoff from 1" Rainfall (cf) = 11,485

Apply Runoff Reduction Practices	Description of Area	Impervious Cover in Contributing D.A. (ac)	Managed Turf in Contributing D.A. (ac)	Max Volume Received by Practice (ft³)	Description of Credit	% Credit	Volume Received from Upstream Practices (ft³)	Total Volume Received by Practice (ft³)	Surface Area of Practice (ft²) (Estimate RWH RR % Credit)	Storage Vol Provided by Practice (ft³)	Runoff Reduction Vol (ft³)	Remaining Volume (ft³)	Downstream Practice
Infiltration Practice	Infiltration trench (4' Deep)	0.01	0.08	107	Subtract 100% of provided storage vol.	100%	1,310	1,418	N/A	1,680	1,418	0	
Vegetated Roof	Building 'C' Intensive Green Roof Assuming Media Depth of 12", Media porosity 0.30: Green Plaza 'A' - DA 0.21 AC, Int. Green Roof Footprint 2,400 SF. Green Plaza 'B' - DA 0.11 AC, Int. Green Roof Footprint 1,260 SF. Extensive Green Roof within Green Plaza's 'A' and 'B' - 3,200 SF. Extensive Green Roof within Streetscape Above Underground Garage - 2,300 SF.	0.39	N/A	1,345	Subtract 100% of provided storage vol.	100%	N/A	1,345	N/A	1,757	1,345	0	
Bioretention - DCR Level 2 Design Spec (enhanced)	Tree pits (12@72 SF Surface Area, 700CF Soil Volume)- Assuming Max Ponding Depth 6" and soil Porosity 0.25	0.75	0.02	2,603	Subtract 100% of provided storage vol.	100%	0	2,603	N/A	2,895	2,603	0	
Disconnection to Dry Well/French Drain-DCR Level 2 Design	Roof top disconnection to infiltration trench	0.38	N/A	1,310	Subtract 100% of provided storage vol.	100%	0	1,310	N/A		0	1,310	Infiltration Practice
Disconnection to Stormwater Planter, Extended Tree Pit, or Curb Extension (Urban Bioretention)	Building 'C' Assuming typical Media Depth of 4', Media Porosity 0.25, and 5,660 SF of Stormwater Planters.	1.47	N/A	5,069	Subtract 100% of provided storage vol.	100%	0	5,069	N/A	5,372	5,069	0	
Sheetflow to Vegetated Filter Strip in A/B Soils or Amended C/D Soils	14,375 SF of Soil Ammendments along North West border of Building 'C'	0.14	0.18	646	Reduce volume by 0.06 cu. ft per sq. ft. of conservation area.	N/A	0	646	7821	N/A	469	177	N/A
	Totals:	3.14	0.28										

Total Drainage Area Treated (acres): 3.42

Runoff Reduction Volume Achieved for Drainage Area A (cubic feet): 10,904

See Site Data and Summary Tab for Site Results

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SWM COMPUTATIONS
BUILDING C

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013
DES. BC DWN. BC
SCALE: N/A
PROJECT/FILE NO. V7405D
SHEET NO. C–18

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EXISTING BUILDING E – TYSONS CORNER CONFORMANCE SPREADSHEET

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012

Site Name: JBGR - Tysons West Rezoning

Drainage Area C Post-Development Land Cover	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space	0.00	0.00	0.00	0.00	**0.00**
Managed Turf	0.00	0.00	0.00	0.96	**0.96**
Impervious Cover	0.00	0.00	0.00	5.26	**5.26**
			D.A. Total (acres)		**6.22**

Rv (turf) 0.25
Rv (impervious) 0.95

Runoff from 1" Rainfall (cf) = 19,010

data input cells highlighted

DRAINAGE AREA "C"

Apply Runoff Reduction Practices	Description of Area	Impervious Cover in Contributing D.A. (ac)	Managed Turf in Contributing D.A. (ac)	Max Volume Received by Practice (ft^3)	Description of Credit	% Credit	Volume Received from Upstream Practices (ft^3)	Total Volume Received by Practice (ft^3)	Estimate RWH RR % Credit: Surface Area of Practice (ft^2)	Storage Vol Provided by Practice (ft^3)	Runoff Reduction Vol (ft^3)	Remaining Volume (ft^3)	Downstream Practice
Infiltration Practice	Areas at Grade Captured by Infiltration Trench (5' stone 2000 sf footprint).	0.24	0.12	937	Subtract 100% of provided storage vol.	100%	1,345	2,281	N/A	2,571	2,281	0	
Vegetated Roof	Extensive Green Roof within Streetscape Above Underground Garage - 926 SF.	0.02	N/A	69	Subtract 100% of provided storage vol.	100%	N/A	69	N/A	93	69	0	
Permeable Pavement - DCR Level 2 Design Spec	4440 SF of Pervious Pavement for Basketball Court and Sidewalks in Park A	0.10	N/A	345	Subtract 100% of provided storage vol.	100%	N/A	345	N/A	888	345	0	
Bioretention - DCR Level 2 Design Spec (enhanced)	Bioretention Filter (SA 3860 SF) Assuming Ponding Depth of 6" and 24" media depth 0.25 soil porosity. Tree pits (16@72 SF Surface Area, 700CF Soil Volume)- Assuming Max Ponding Depth 6" and soil Porosity 0.25	1.55	0.38	5,690	Subtract 100% of provided storage vol.	100%	1,774	7,464	N/A	8,543	7,464	0	
Disconnection to Bioretention	Ex Roof Area Disconnected to Bio-retention Filter	0.34		1,172	Subtract 100% of provided storage vol.	100%	0	1,172	N/A		0	1,172	Bioretention - DCR Level 2 Design Spec
Disconnection to Dry Well/French Drain-DCR Level 2 Design	Roof top disconnection to infiltration trenchs (5' Deep)	0.39	N/A	1,345	Subtract 100% of provided storage vol.	100%	0	1,345	N/A		0	1,345	Infiltration Practice
Dry Swale - DCR Level 2 Design Spec	Assuming Media Depth of 36" with porosity of 0.25 and check dams with 6" of ponding depth	0.41	0.15	1,550	Subtract 100% of provided storage vol.	100%	0	1,550	N/A	949	949	601	Bioretention - DCR Level 2 Design Spec
Sheetflow to Vegetated Filter Strip in A/B Soils or Amended C/D Soils	8500 SF of Soil Ammendments in Park A Treating Cooling Tower Roof	0.04	0.20	319	Reduce volume by 0.06 cu. ft per sq. ft. of conservation area.	N/A	0	319	8500	N/A	319	0	N/A
	Totals:	**3.09**	**0.85**										

Total Drainage Area Treated (acres): 3.94

Runoff Reduction Volume Achieved for Drainage Area A (cubic feet): 11,427

See Site Data and Summary Tab for Site Results

EXISTING BUILDING E ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS

EXISTING BUILDING "E"

TOTAL RUNOFF REDUCTION REQUIRED	**22,579 CFT**
TOTAL RUNOFF REDUCTION PROVIDED	**11,427 CFT**
RAINFALL DEPTH RETAINED ONSITE	**0.67 IN**
SITE AREA (AC)	**6.22**

DRAINAGE AREA "C"

STORAGE PROVIDED IN PROPOSED RUNOFF REDUCTION PRACTICES DURING LEED EVENT

RUNOFF REDUCTION PRACTICE	CONTRIBUTING DA	DA RV	1" VOL REQUIRED (CF)	VOL PROVIDED (CF)	LEED RUNOFF RETAINED (INCH)	EXCESS VOLUME	EQUIVALENT DEPTH RETAINED
BIORETENTION PRACTICES	2.27	0.83	7464	8543	1.24	1681	0.08
EXTENSIVE GREEN ROOF	0.02	0.95	69	93	1.34	24	0.00
PERVIOUS PAVEMENT/PAVERS	0.10	0.95	345	888	2.58	543	0.02
INFILTRATION PRACTICES	0.75	0.84	2281	2571	1.13	289	0.01
DISCONNECTION TO STORMWATER PLANTERS	-	-	-	-	-	-	-
***NOTE: LEED SPECIFIED STORM FOR THIS PART OF THE COUNTRY IS 3.2"**					**TOTAL=**	**2536**	0.11

OVERALL APPLICATION BREAKDOWN BY PRACTICE

OVERALL APPLICATION BREAKDOWN BY PRACTICE	INCHES CONTRIBUTED TO OVERALL		
BIORETENTION PRACTICES	0.33	IN	
EXTENSIVE GREEN ROOF	0.003	IN	
PERVIOUS PAVEMENT/PAVERS	0.02	IN	
INFILTRATION PRACTICES	0.10	IN	**TIER 1**
DRY SWALE	0.04	IN	**0.65 IN**
RAINFALL NOT CONVERTED TO RUNOFF	0.16	IN	
INTENSIVE GREEN ROOF	-	IN	**TIER 3**
STORMWATER PLANTERS	-	IN	**0.00 IN**

EXISTING BUILDING D – TYSONS CORNER CONFORMANCE SPREADSHEET

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012

Site Name: JBGR - Tysons West Rezoning

Drainage Area D Post-Development Land Cover	HSG A soils	HSG B Soils	HSG C Soils	HSG D Soils	Totals
Forest / Preserved Open Space	0.00	0.00	0.00	0.00	**0.00**
Managed Turf	0.00	0.00	0.00	0.18	**0.18**
Impervious Cover	0.00	0.00	0.00	3.79	**3.79**
			D.A. Total (acres)		**3.97**

Rv (turf) 0.25
Rv (impervious) 0.95

Runoff from 1" Rainfall (cf) = 13,233

data input cells highlighted

DRAINAGE AREA "D"

Apply Runoff Reduction Practices	Description of Area	Impervious Cover in Contributing D.A. (ac)	Managed Turf in Contributing D.A. (ac)	Max Volume Received by Practice (ft^3)	Description of Credit	% Credit	Volume Received from Upstream Practices (ft^3)	Total Volume Received by Practice (ft^3)	Estimate RWH RR % Credit: Surface Area of Practice (ft^2)	Storage Vol Provided by Practice (ft^3)	Runoff Reduction Vol (ft^3)	Remaining Volume (ft^3)	Downstream Practice
Infiltration Practice	Infiltration trench located below dog park - 2.5' Stone (3,250 sf footprint). 6,500 CF storage provided in ex detention vault, control structure to be modified.	0.22	0.15	895	Subtract 100% of provided storage vol.	100%	6,483	7,378	N/A	7,534	7,378	0	
Vegetated Roof	Extensive Green Roof Assuming Media Depth of 4", Media Porosity 0.30, and 2,525 SF Green Roof	0.06	N/A	207	Subtract 100% of provided storage vol.	100%	N/A	207	N/A	253	207	0	
Permeable Pavement - DCR Level 2 Design Spec	Permeable pavers in Pocket Park G (2,050 SF)	0.05	N/A	172	Subtract 100% of provided storage vol.	100%	N/A	172	N/A	410	172	0	
Bioretention - DCR Level 2 Design Spec (enhanced)	Tree pits (2@72 SF Surface Area, 700CF Soil Volume)- Assuming Max Ponding Depth 6" and soil Porosity 0.25	0.28		966	Disconnection to Bioretention	100%	0	966	N/A	1,055	966	0	
Disconnection to Dry Well/French Drain-DCR Level 2 Design	Roof top area Disconnected to Infiltration Trench by rerouting existing detention system	1.88	N/A	6,483	Subtract 100% of provided storage vol.	100%	0	6,483	N/A		0	6,483	Infiltration Practice
Sheetflow to Vegetated Filter Strip in A/B Soils or Amended C/D Soils	685 SF of Soil Ammendments in Pocket Park G		0.02	18	Reduce volume by 0.06 cu. ft per sq. ft. of conservation area.	N/A	0	18	685	N/A	18	0	N/A
	Totals:	**2.49**	**0.17**										

Total Drainage Area Treated (acres): 2.66

Runoff Reduction Volume Achieved for Drainage Area A (cubic feet): 8,741

See Site Data and Summary Tab for Site Results

EXISTING BUILDING D ALTERNATE/ADDITIONAL SWM OPTIONS AND CREDITS

EXISTING BUILDING "D"

TOTAL RUNOFF REDUCTION REQUIRED	**14,411 CFT**
TOTAL RUNOFF REDUCTION PROVIDED	**8,741 CFT**
RAINFALL DEPTH RETAINED ONSITE	**0.69 IN**
SITE AREA (AC)	**3.97**

DRAINAGE AREA "D"

STORAGE PROVIDED IN PROPOSED RUNOFF REDUCTION PRACTICES DURING LEED EVENT

RUNOFF REDUCTION PRACTICE	CONTRIBUTING DA	DA RV	1" VOL REQUIRED (CF)	VOL PROVIDED (CF)	LEED RUNOFF RETAINED (INCH)	EXCESS VOLUME	EQUIVALENT DEPTH RETAINED
BIORETENTION PRACTICES	0.28	0.95	966	1055	1.09	89	0.01
EXTENSIVE GREEN ROOF	0.06	0.95	207	253	1.22	46	0.01
PERVIOUS PAVEMENT	0.05	0.95	172	410	2.38	238	0.02
INFILTRATION PRACTICES	2.25	0.90	7378	7534	1.02	156	0.02
DISCONNECTION TO STORMWATER PLANTERS	-	-	-	-	-	-	-
***NOTE: LEED SPECIFIED STORM FOR THIS PART OF THE COUNTRY IS 3.2"**					**TOTAL=**	529	0.04

OVERALL APPLICATION BREAKDOWN BY PRACTICE

OVERALL APPLICATION BREAKDOWN BY PRACTICE	INCHES CONTRIBUTED TO OVERALL		
BIORETENTION PRACTICES	0.07	IN	
EXTENSIVE GREEN ROOF	0.01	IN	
PERVIOUS PAVEMENT	0.02	IN	
INFILTRATION PRACTICES	0.51	IN	**TIER 1**
RAINFALL NOT CONVERTED TO RUNOFF	0.08	IN	**0.69 IN**
INTENSIVE GREEN ROOF	-	IN	**TIER 3**
STORMWATER PLANTERS	-	IN	**0.00 IN**
TOTAL	**0.69**	**IN**	

EXISTING BUILDINGS "D" AND "E" DETENTION NARRATIVE:

PFM DETENTION AND REQUIRED BMP PHOSPHORUS REMOVAL IS PROVIDED ON BUILDING "E" AND BUILDING "D" SITES IN THE EXISTING CONDITION. BMP AND DETENTION FOR BUILDING "E" IS PROVIDED BY AN EXISTING DRY POND AT THE END OF ASHGROVE LANE SEE SITE PLAN ASBUILT # 5556–SAB–001–1. BMP FOR THE BUILDING "D" SITE IS PROVIDED BY A STORMFILTER VAULT LOCATED BELOW THE LOADING AREA IN THE REAR OF THE BUILDING. THIS SITE IS CLASSIFIED AS REDEVELOPMENT WITH SITE PLAN NUMBER 8766–SP–01–D–1 AND THIS STORMFILTER VAULT MORE THAN SATISFIES THE PFM BMP REQUIREMENTS. DETENTION FOR BUILDING "D" IS PROVIDED IN THREE VAULTS; ONE IS PROVIDED BEHIND THE BUILDING UPSTREAM OF THE STORMFILTER VAULT. THE OTHER TWO VAULTS ARE IN THE EXISTING PARKING LOT AND PROVIDE DETENTION FOR THE FRONT HALF OF THE SITE. WITH THE REDEVELOPMENT OF BUILDING C A PORTION OF THE CONTROLLED AREA FOR SWM VAULT #1 SERVING BUILDING "D"WILL BE REMOVED FROM THE DRAINAGE AREA OF THE VAULT. THIS WILL ONLY REDUCE THE OUTFLOW FROM THE VAULT MAKING THE ROUTINGS AND OUTFALL ANALYSIS CONSERVATIVE FOR BUILDING "D". DETENTION FOR THIS DIVERTED WATER HAS BEEN COMPENSATED FOR WITHIN THE LOW IMPACT DEVELOPMENT PRACTICES, AND WITHIN A SWM VAULT PROPOSED WITH BUILDING C. LEED COMPUTATIONS HAVE NOT BEEN PROVIDED FOR BUILDINGS "D" OR "E" AS THEY ARE EXISTING BUILDINGS.

Application No: **FDP 2011-HM-032** Staff: **S.Lin**

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: **Aug 23, 2013**
SEE CONDITIONS DATED:
Date of Final Approval: **Jul 31, 2013** (_BOS) (XPC) (_BZA)
Comments: **Develop Conds. Dated 7/31/2013**
Associated W/ RZ 2011-HM-032
Sheet **20** of **60**

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SWM COMPUTATIONS
BUILDINGS "D" AND "E"

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
BC	BC

SCALE: N/A

PROJECT/FILE NO. V7405D

SHEET NO. C–19

P:\Planning\Projects\7405D\dwg\7405D30D-SWM.dwg 6/11/2013 10:54:41 AM EDT

VA DCR STORMWATER DESIGN SPECIFICATION NO. 9 BIORETENTION

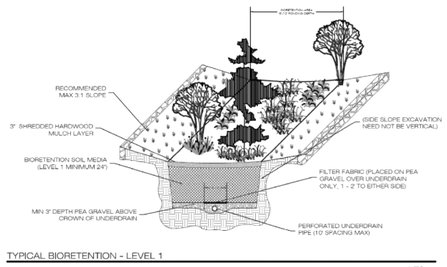


Figure 9.4a: Typical Detail of Bioretention Basin Level 1 Design

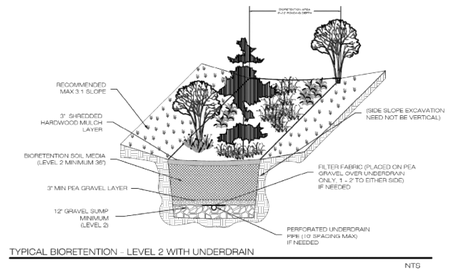


Figure 9.4b: Typical Detail of Bioretention Basin Level 2 Design

BIO–RETENTION DETAIL

VA DCR STORMWATER DESIGN SPECIFICATION NO. 5 VEGETATED ROOF

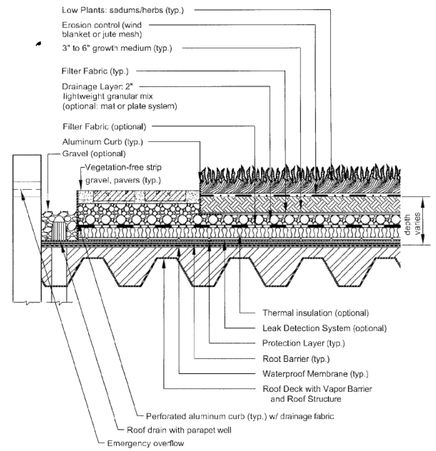
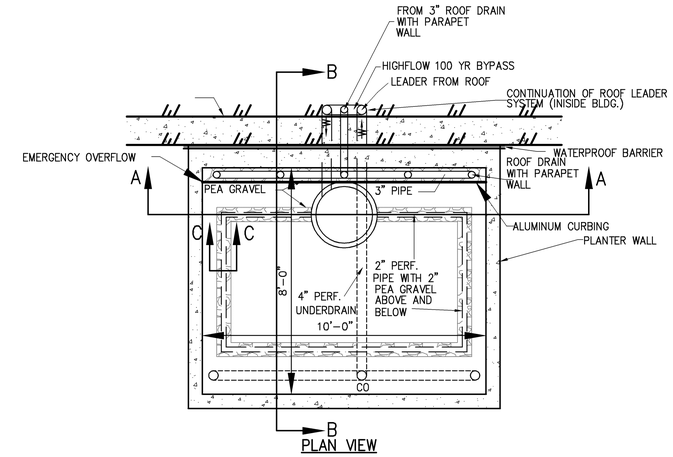
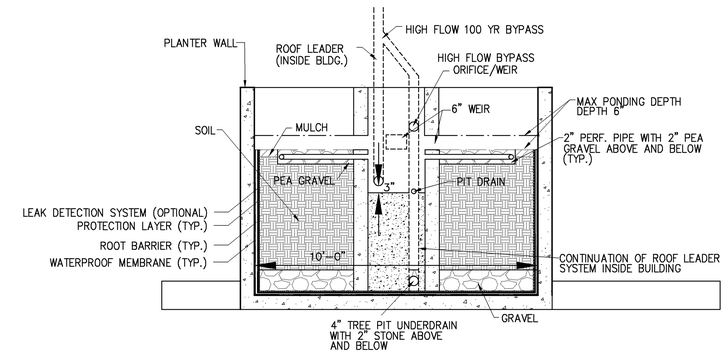
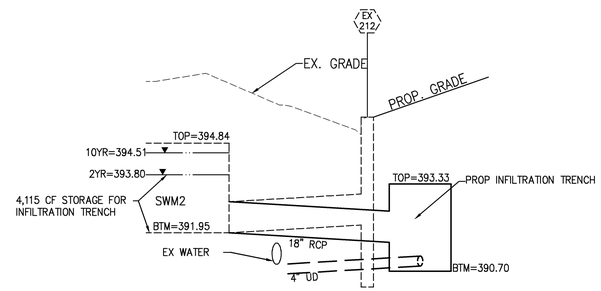


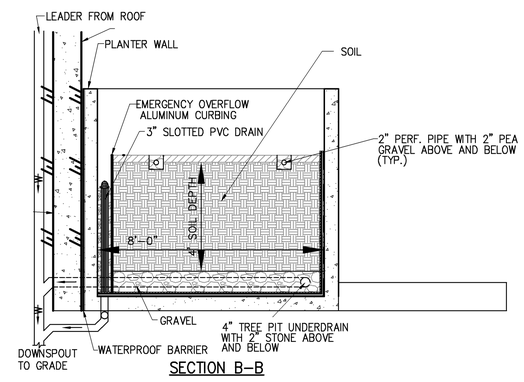
Figure 5.2. Typical Section – Extensive Vegetated Roof (Source: Northern VA Regional Commission)

EXTENSIVE GREEN ROOF









VA DCR STORMWATER DESIGN SPECIFICATION NO. 8 INFILTRATION

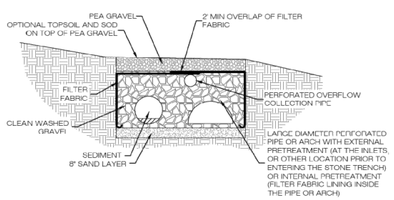


Figure 8.2A: Infiltration Section with Supplemental Pipe Storage

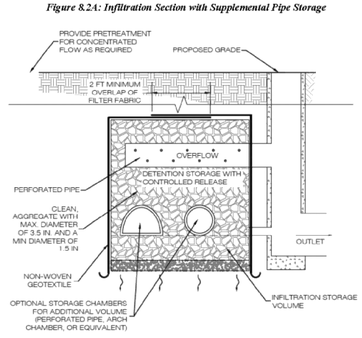
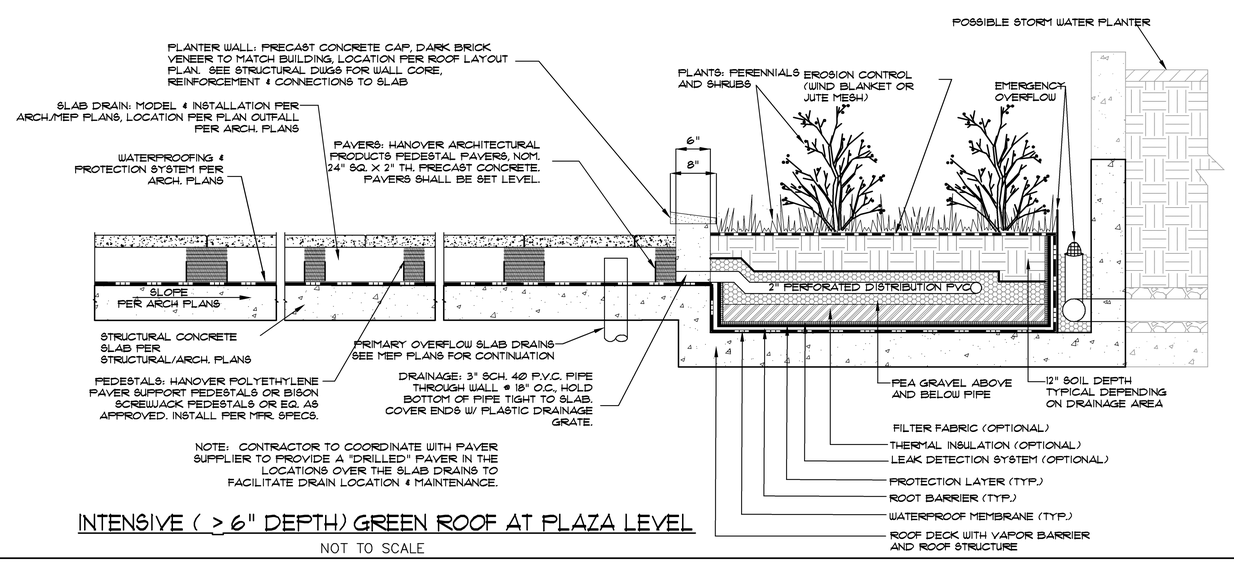


Figure 8.2B: Combined Underground Detention (Channel and/or Flooding Protection) and Infiltration

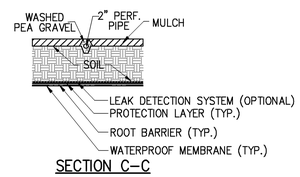
INFILTRATION TRENCH DETAIL



NOTE: CONTRACTOR TO COORDINATE WITH PAVER SUPPLIER TO PROVIDE A "DRILLED" PAVER IN THE LOCATIONS OVER THE SLAB DRAINS TO FACILITATE DRAIN LOCATION & MAINTENANCE.

INTENSIVE (> 6" DEPTH) GREEN ROOF AT PLAZA LEVEL

NOT TO SCALE



STORMWATER PLANTER DETAIL

NOT TO SCALE

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 21 of 60

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TYSONS WEST

FINAL DEVELOPMENT PLAN

HUNTER MILL DISTRICT

FAIRFAX COUNTY, VIRGINIA

SWM DETAILS

VIKA REVISIONS

JUNE 12, 2013

MAY 10, 2013

DATE: FEBRUARY 25, 2013

DES. BC DWN. BC

SCALE: N/A

PROJECT/FILE NO. VV7405D

SHEET NO. C–20

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MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION, SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS

The following information is required to be shown or provided in all zoning applications, or a waiver request of the submission requirement with justification shall be attached. Note: Waivers will be acted upon separately. Failure to adequately address the required submission information may result in a delay in processing this application.

This information is required under the following Zoning Ordinance paragraphs:

Special Permits (8-011 2J & 2L)	Special Exceptions (9-011 2J & 2L)
Cluster Subdivision (9-615 1G & 1N)	Commercial Revitalization Districts (9-622 2A (12) & (14))
Development Plans PRC District (16-302 3 & 4L)	PRC Plan (16-303 1E & 1O)
FDP P Districts (except PRC) (16-502 1F & 1Q)	Amendments (18-202 10F & 10I)

[X] 1. Plat is at a minimum scale of 1"=50' (unless it is depicted on one sheet with a minimum scale of 1"=100').

[X] 2. A graphic depicting the stormwater management facility(ies) and limits of clearing and grading accommodate the stormwater management facility(ies), storm drainage pipe systems and outlet protection, pond spillways, access roads, site outfalls, energy dissipation devices, and stream stabilization measures as shown on Sheet C-9.

[X] 3. Provide:

Facility Name/ Type & No.	On-site area served (acres)	Off-site area served (acres)	Drainage area (acres)	Footprint area (sf)	Storage Volume (cf)	If pond, dam height (ft)
SEE MAP SHEET C-9, NARRATIVE SHEET C-10A, AND COMPUTATIONS C-11 THRU C-12A						
(e.g. dry pond, sand filter, underground vault, etc.)						
Totals						

[X] 4. Onsite drainage channels, outfalls and pipe systems are shown on Sheet C-3 AND C-4. Pond inlet and outlet pipe systems are shown on Sheet N/A.

N/A [ ] 5. Maintenance access (road) to stormwater management facility(ies) are shown on Sheet ____. Type of maintenance access road surface noted on the plat is N/A (asphalt, geoblock, gravel, etc.).

N/A [ ] 6. Landscaping and tree preservation shown in and near the stormwater management facility is shown on Sheet N/A.

[X] 7. A 'stormwater management narrative' which contains a description of how detention and best management practices requirements will be met is provided on Sheet SEE NARRATIVE ON SHEET C-10A

[X] 8. A description of the existing conditions of each numbered site outfall extended downstream from the site to a point which is at least 100 times the site area or which has a drainage area of at least one square mile (640 acres) is provided on Sheet THIS SHEET

[X] 9. A description of how the outfall requirements, including known changes to contributing drainage areas (i.e. drainage diversions), of the Public Facilities Manual will be satisfied is provided on Sheet THIS SHEET

[X] 10. Existing topography with maximum contour intervals of two (2) feet and a note as to whether it is an air survey or field run is provided on Sheets C-3.

[X] 11. A submission waiver is requested for SEE NARRATIVE ON SHEET C-10A.

[ ] 12. Stormwater management is not required because ____.

Revised 2-21-2006

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

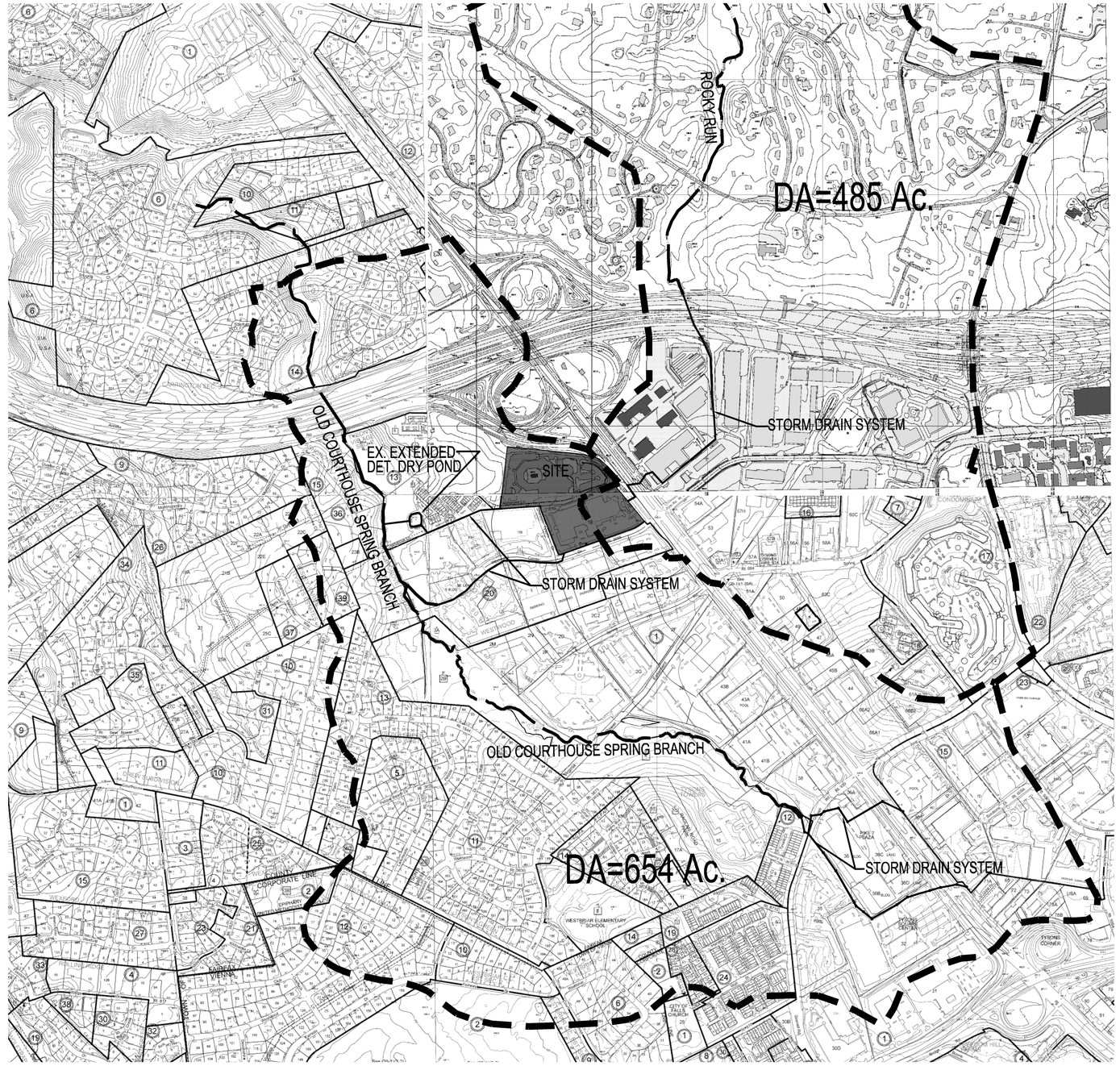
SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 22 of 60



LEGEND:

DENOTES SITE AREA

SUB AREA DRAINAGE LINE

OUTFALL DESCRIPTIONS

THIS WATERSHED MAP INCLUDES THE CDP SITE AREA PLUS CONTRIBUTING SUBSHEDS AS SHOWN ON THIS PLAN. THE ADEQUACY OF THE OUTFALLS FOR THIS CDP IS BASED UPON THE PREMISE THAT AN ADEQUATE OUTFALL IS IN PLACE OR WILL BE IN PLACE AT THE TIME OF FINAL SITE PLAN. THERE ARE TWO SEPARATE OUTFALLS FOR THIS SITE, BOTH ARE CLOSED CONDUITS AND FLOW IN OPPOSITE DIRECTIONS TO DIFFERENT RECEIVING WATERS. OUTFALL #1 FLOWS DOWN ASHGROVE LANE TO AN EXISTING EXTENDED DETENTION DRY POND AND THEN OUTFALLS INTO OLD COURTHOUSE SPRING BRANCH. OLD COURTHOUSE SPRING BRANCH IS THEN CONVEYED TO THE WEST UNDER DULLES TOLL ROAD (RT. 267). THE STUDY AREA INDICATED ON THIS SHEET IS APPROXIMATELY 654 AC., WHICH IS GREATER THAN ONE SQUARE MILE (640 Ac). OUTFALL # 2 IS A CLOSED CONDUIT SYSTEM FLOWING TO THE NORTH AND DAYLIGHTS AFTER PASSING UNDER THE DULLES TOLL ROAD. THIS OUTFALL FLOWS INTO AN EXISTING REGIONAL POND WHICH TURNS INTO ROCKY RUN FURTHER DOWNSTREAM. THE SITE AREA WHICH FLOWS TO THIS OUTFALL TOTALS 4.11 ACRES SO THE OUTFALL ANALYSIS HAS BEEN STOPPED AT 485 ACRES AS SHOWN WHICH IS 100 TIMES GREATER THAN THE SITE AREA CONTRIBUTING TO THIS OUTFALL.

GRAPHIC SCALE

500 0 250 500 1000 2000

(IN FEET)
1 inch = 500 ft.

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

ADEQUATE OUTFALL MAP

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
BC	BC

SCALE: 1"=250'

PROJECT/FILE NO. V7405A

SHEET NO. C-21

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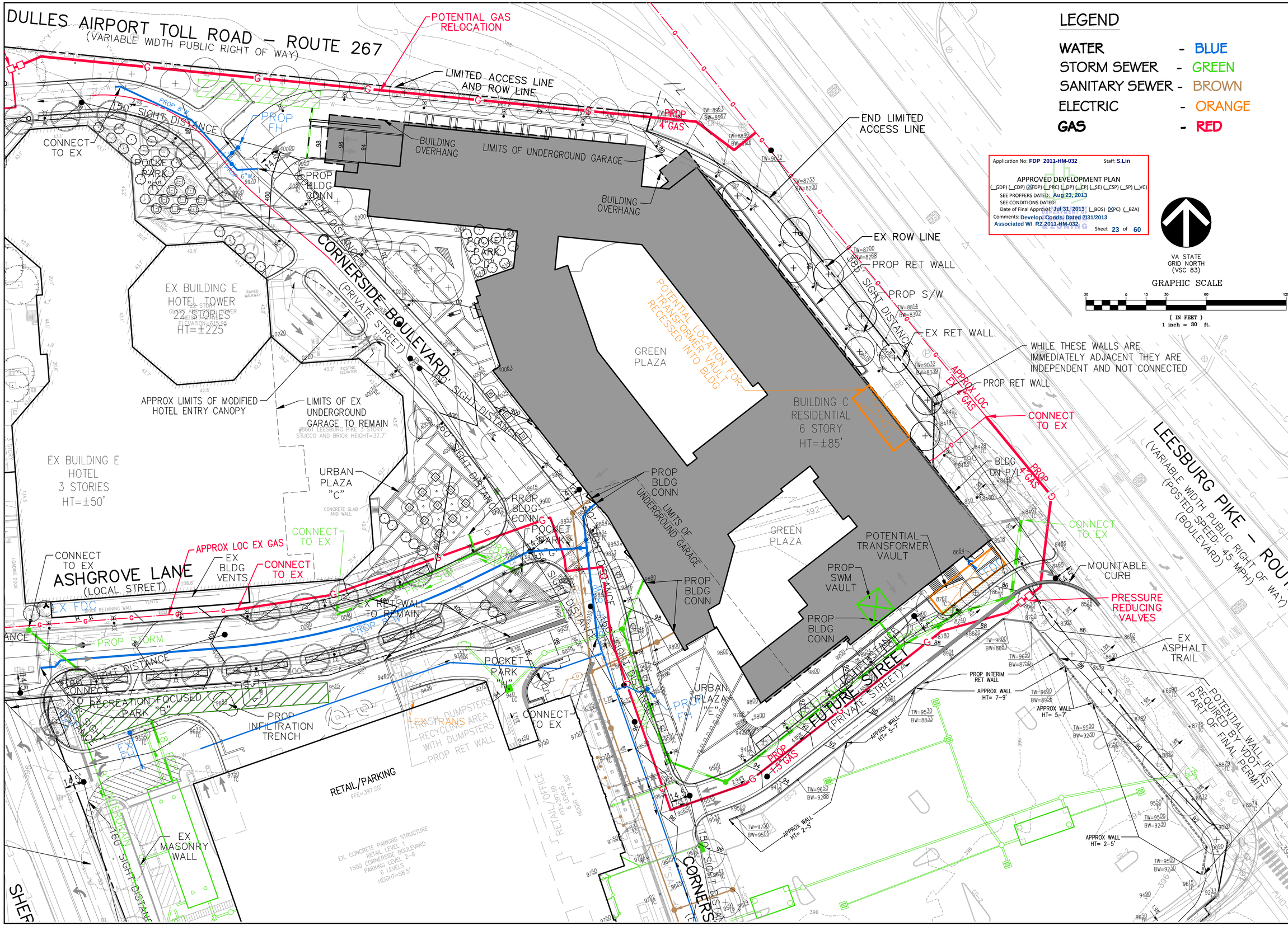

LEGEND

WATER	-	BLUE
STORM SEWER	-	GREEN
SANITARY SEWER	-	BROWN
ELECTRIC	-	ORANGE
GAS	-	RED

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 23 of 60

VA STATE GRID NORTH (VSC 83)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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TYSONS WEST
FINAL DEVELOPMENT PLAN
HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

CONCEPTUAL UTILITY, GRADING AND SIGHT DISTANCE PLAN

VIKA REVISIONS

JUNE 12, 2013
MAY 10, 2013
DATE: FEBRUARY 25, 2013

DES.	DWN.
PCC	RMC

SCALE: 1"=30'

PROJECT/FILE NO. VV7405D

SHEET NO. C–22

P:\Planning\Projects\74050\dwg\74050100.dwg 6/13/2013 1:46:03 PM EDT

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

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SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

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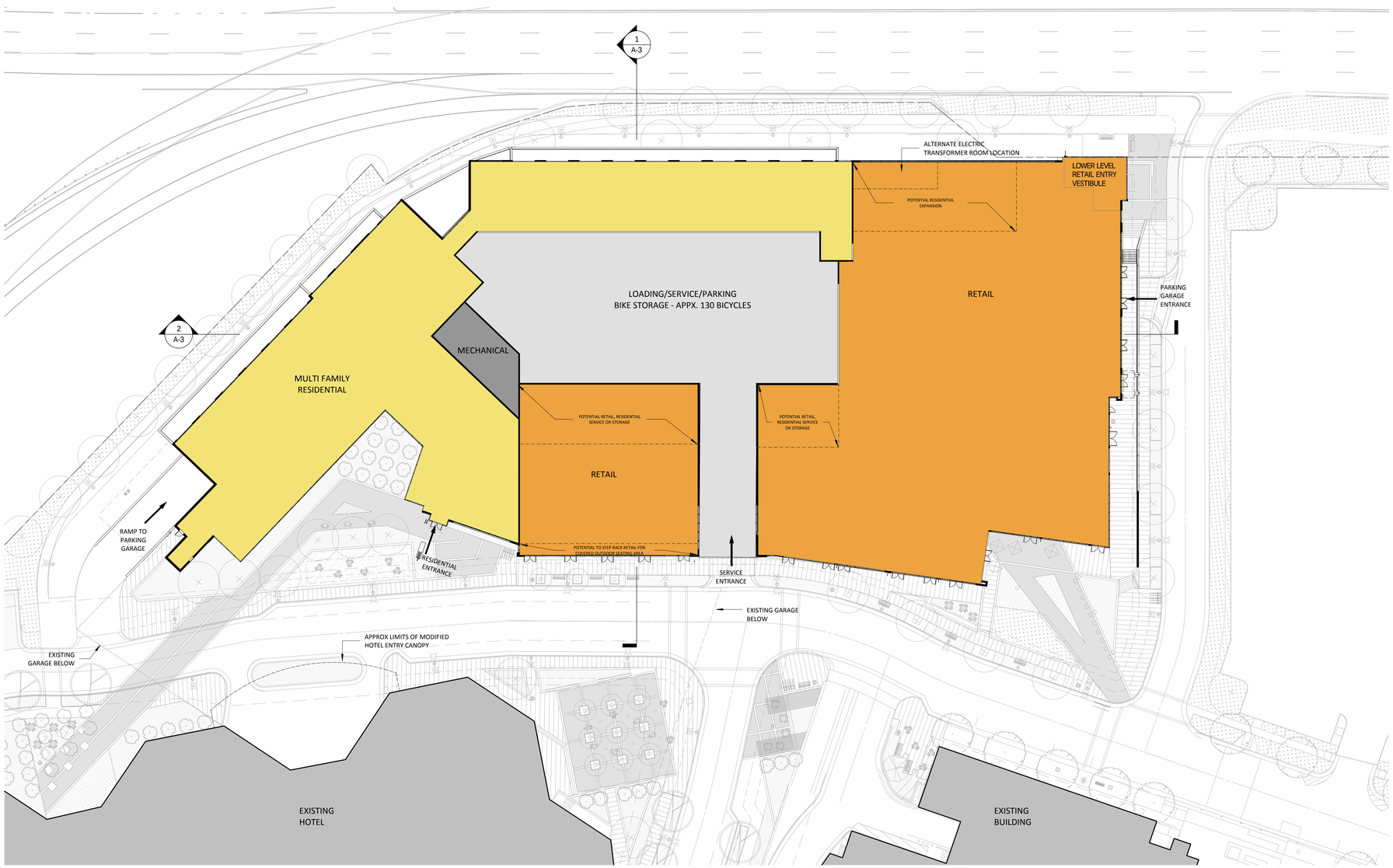
Sheet 24 of 60



1 GROUND LEVEL PLAN
A-1 1" = 30'-0"

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no.	date	revision
3	2013.06.12	
2	2013.05.10	
1	2013.02.25	

Project Number

211154.00

Project

TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase

FINAL DEVELOPMENT PLAN

Date

2013.06.12

Scale

1" = 30'-0"

Drawing

FLOOR PLANS - GROUND LEVEL

No

A-1

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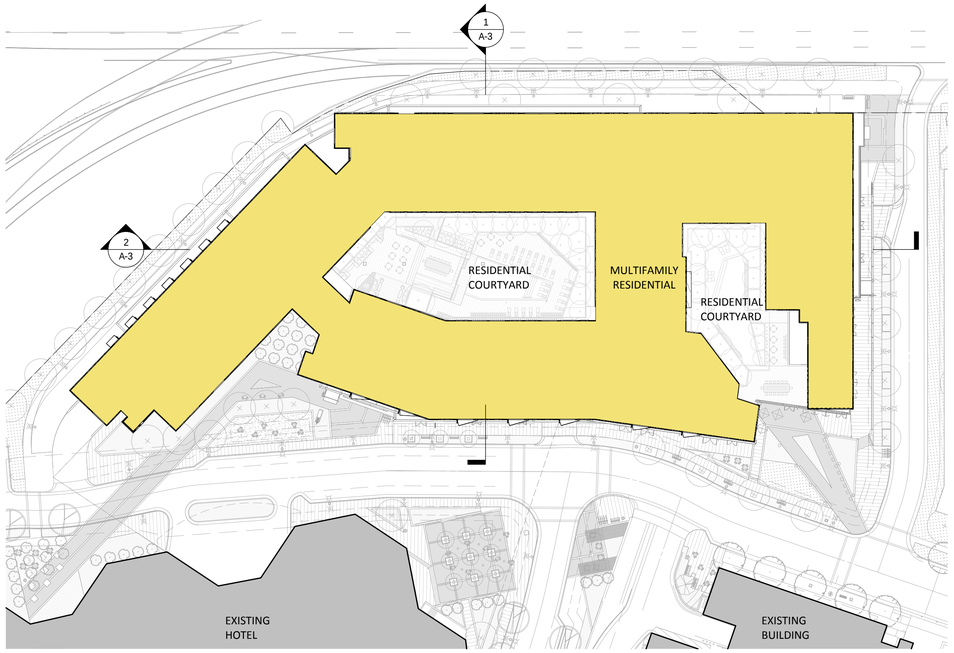
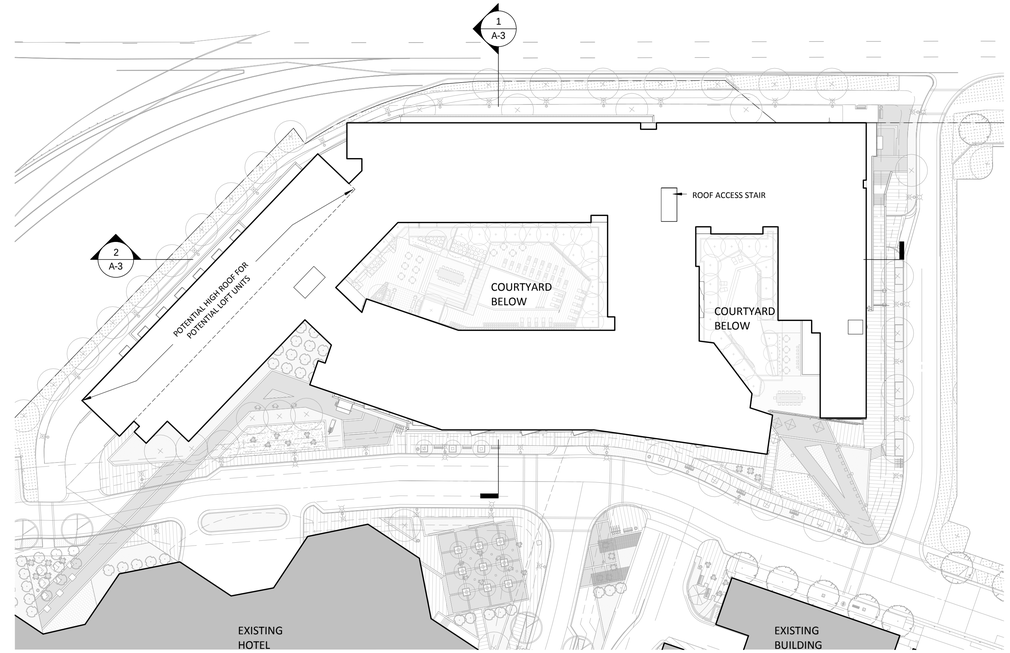
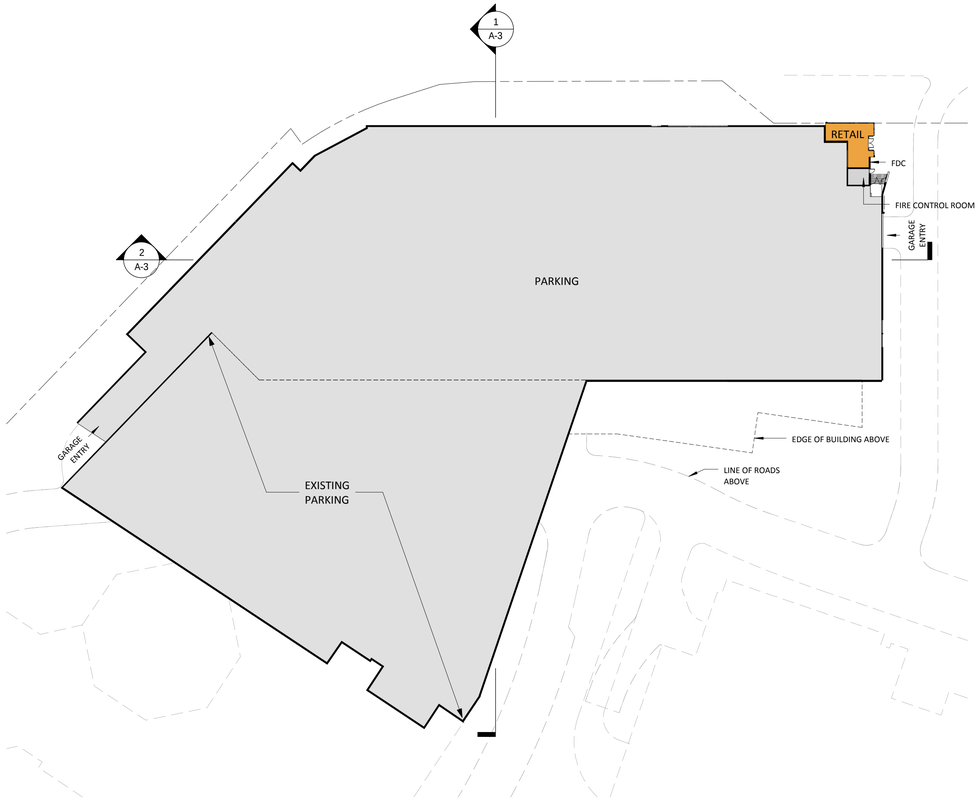


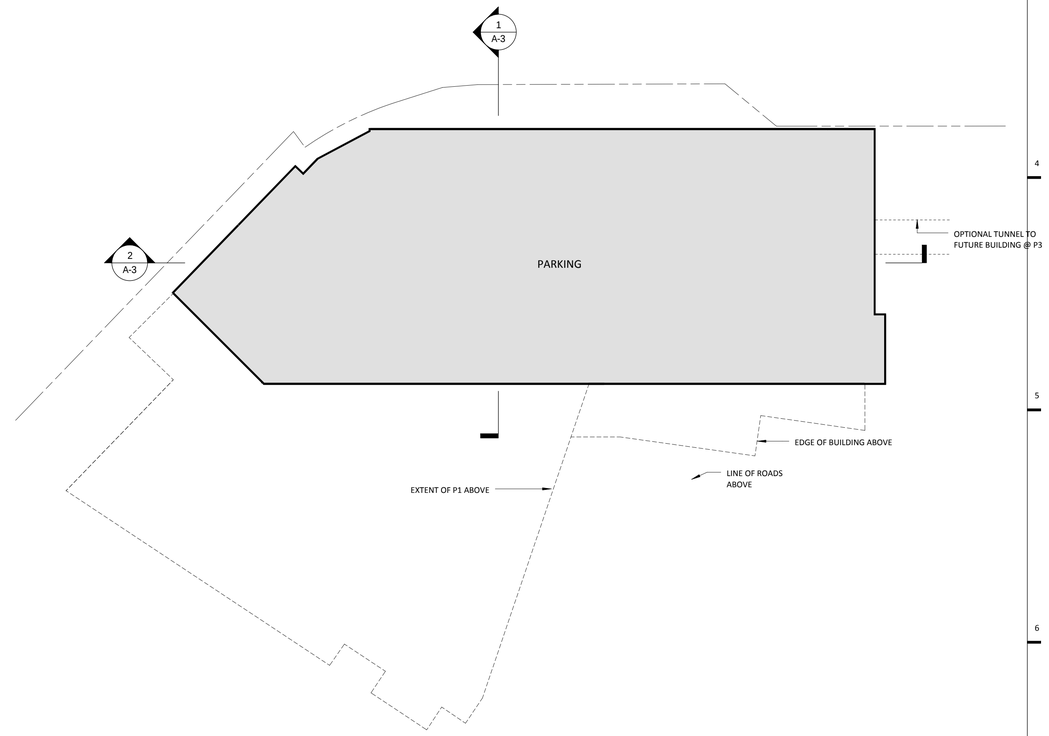
1 TYPICAL UPPER LEVEL
A-2 1" = 50'-0"



2 ROOF PLAN
A-2 1" = 50'-0"



3 PARKING LEVEL P1
A-2 1" = 50'-0"



4 PARKING LEVELS P2 + P3
A-2 1" = 50'-0"

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_COP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

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no.	date	revision
3	2013.06.12	
2	2013.05.10	
1	2013.02.25	

Project Number

211154.00

Project

TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase

FINAL DEVELOPMENT PLAN

Date

2013.06.12

Scale

1" = 50'-0"

Drawing

FLOOR PLANS

No

A-2

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Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
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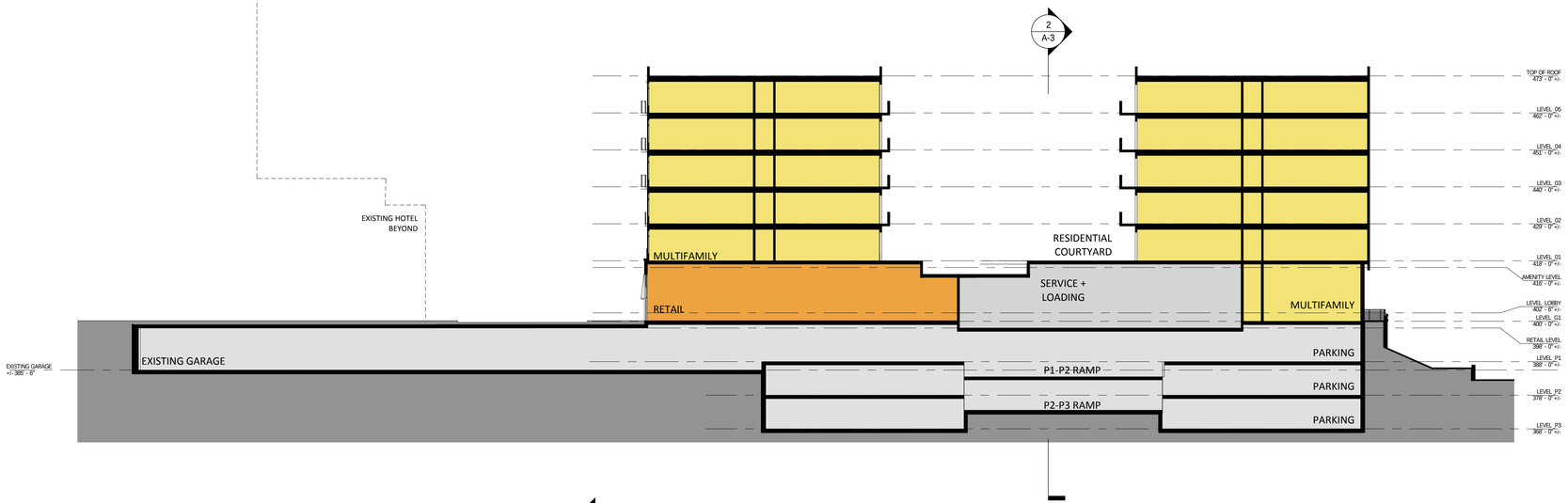
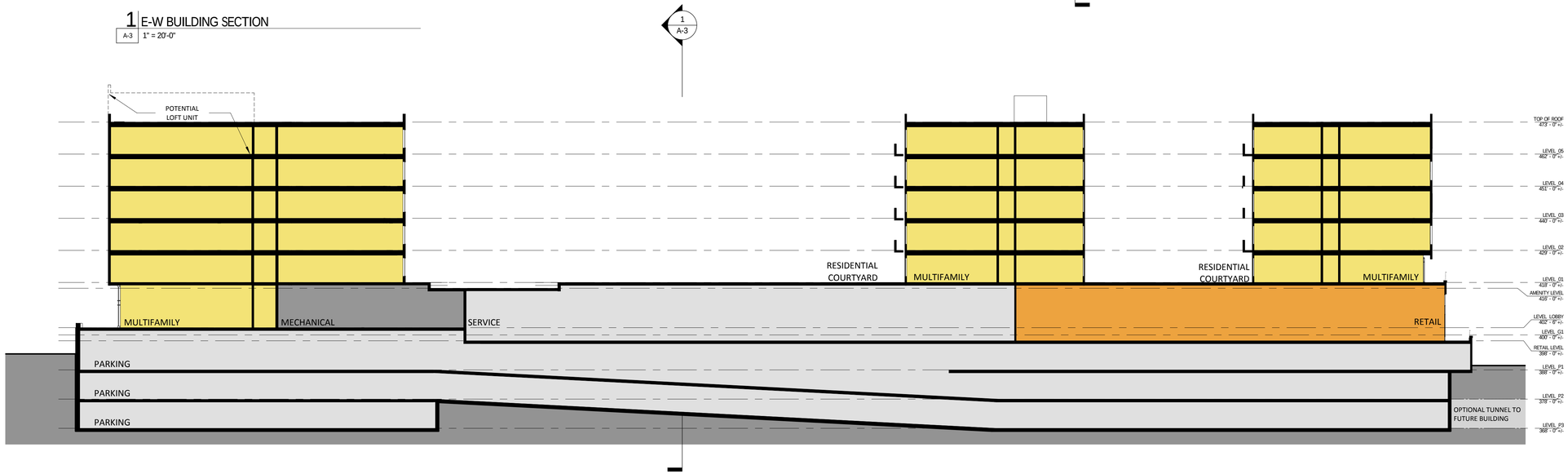
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 26 of 60



1 E-W BUILDING SECTION
A-3 1" = 20'-0"



2 N-S BUILDING SECTION
A-3 1" = 20'-0"

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no.	date	revision
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1	2013.02.25	

Project Number
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Project
TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase
FINAL DEVELOPMENT PLAN

Date
2013.06.12

Scale
1" = 20'-0"

Drawing
BUILDING SECTIONS

No
A-3

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1 RETAIL PLAZA PERSPECTIVE
A-4 NTS

2 RESIDENTIAL ENTRY PERSPECTIVE
A-4 NTS

4 LEESBURG PIKE PERSPECTIVE
A-4 NTS

3 NORTH FACADE PERSPECTIVE
A-4 NTS

ELEVATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. RETAIL STOREFRONT AND BUILDING ELEVATION MAY VARY DUE TO FINAL TENANT REQUIREMENTS, UNIT LAYOUT AND MECHANICAL PENETRATIONS.

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_SP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 27 of 60

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no.	date	revision
3	2013.06.12	
2	2013.05.10	
1	2013.02.25	

Project Number
211154.00

Project
TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase
FINAL DEVELOPMENT PLAN

Date
2013.06.12

Scale
As indicated

Drawing
PERSPECTIVES

No
A-4

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1 PARK A (RECREATION-FOCUSED PARK)
A-5 NTS

2 PARK B (DOG PARK)
A-5 NTS

3 PARK C (URBAN PLAZA)
A-5 NTS

4 PARK G + H (POCKET PARKS)
A-5 NTS

ELEVATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. RETAIL STOREFRONT AND BUILDING ELEVATION MAY VARY DUE TO FINAL TENANT REQUIREMENTS, UNIT LAYOUT AND MECHANICAL PENETRATIONS.

Application No: FDP 2011-HM-032 Staff: S.Lin

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2013.06.12

Scale
As indicated

Drawing
PERSPECTIVES

No
A-5

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1 PARK H (POCKET PARK)

A-5A NTS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

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Associated W/ RZ 2011-HM-032

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TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase

FINAL DEVELOPMENT PLAN

Date

2013.06.12

Scale

As indicated

Drawing

PERSPECTIVES

No

A-5A

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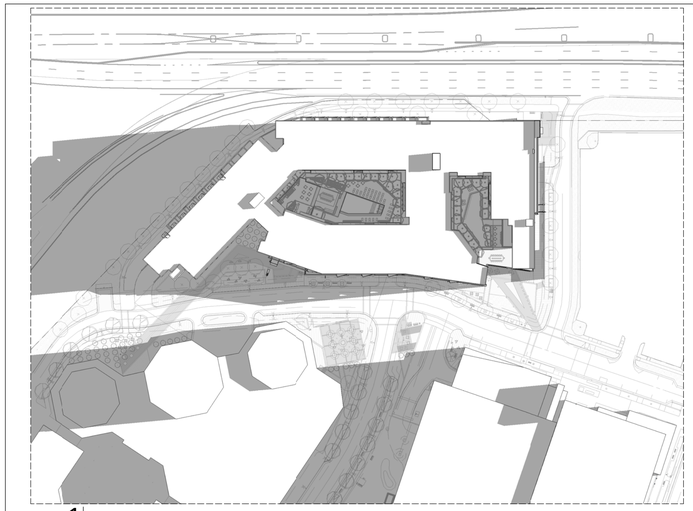
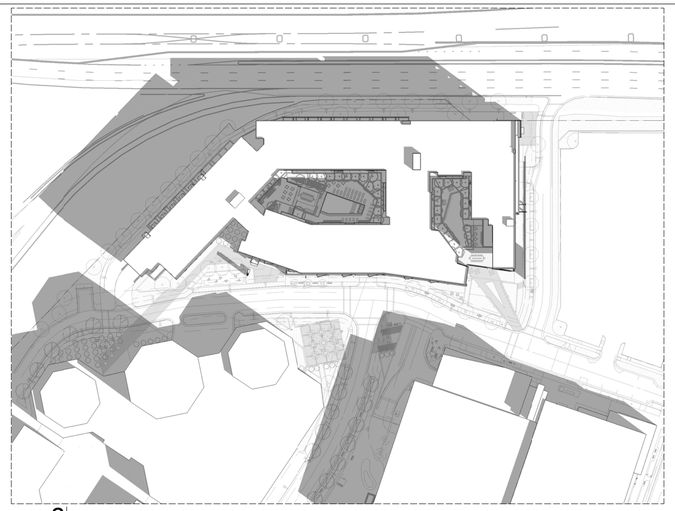
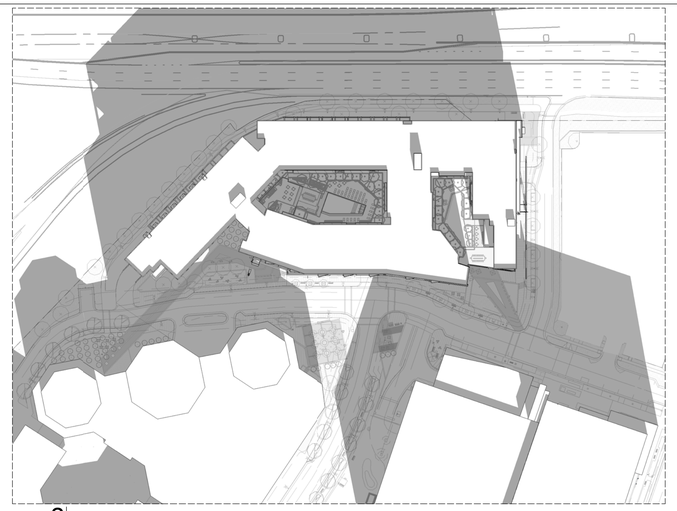


1 WINTER SOLSTICE - 9AM
A-6 1" = 100'-0"



2 WINTER SOLSTICE - 12PM
A-6 1" = 100'-0"



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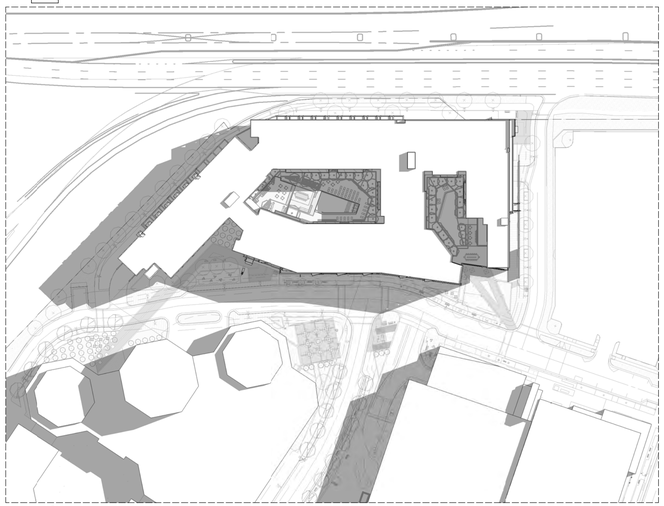

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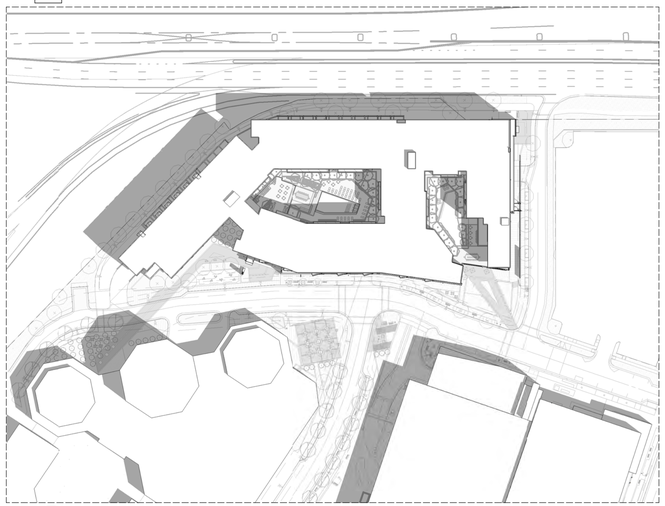
A-6 1" = 100'-0"



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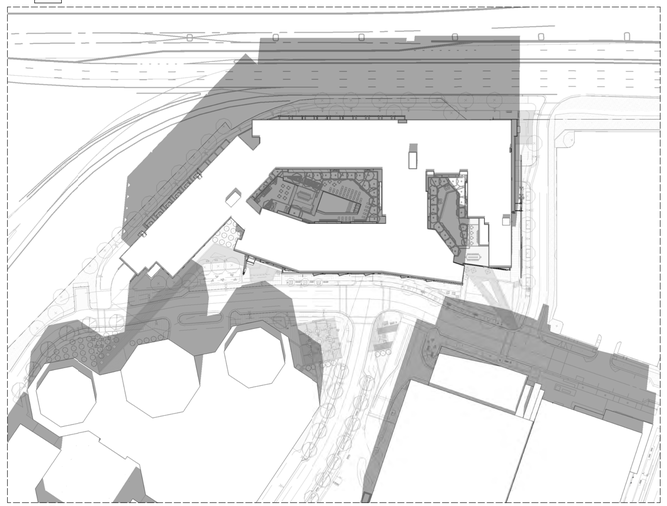
A-6 1" = 100'-0"



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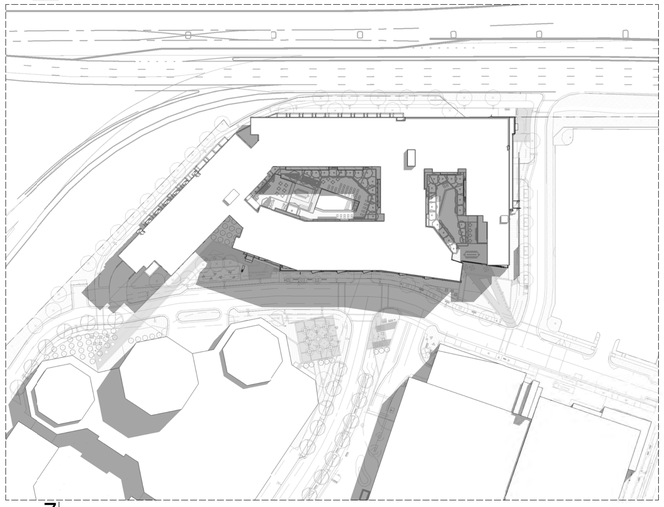
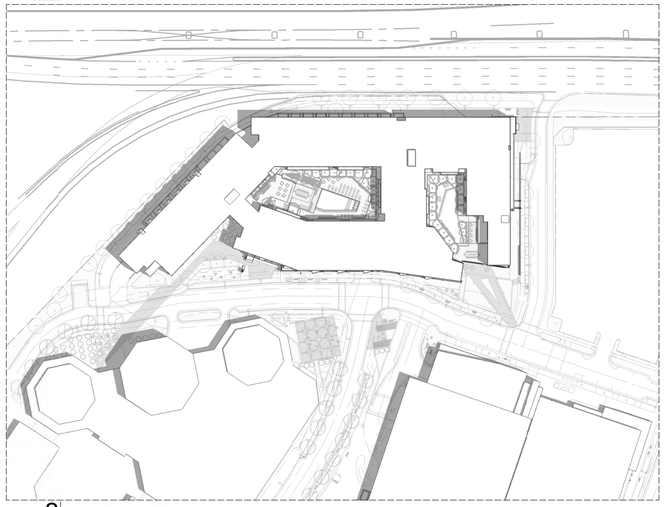
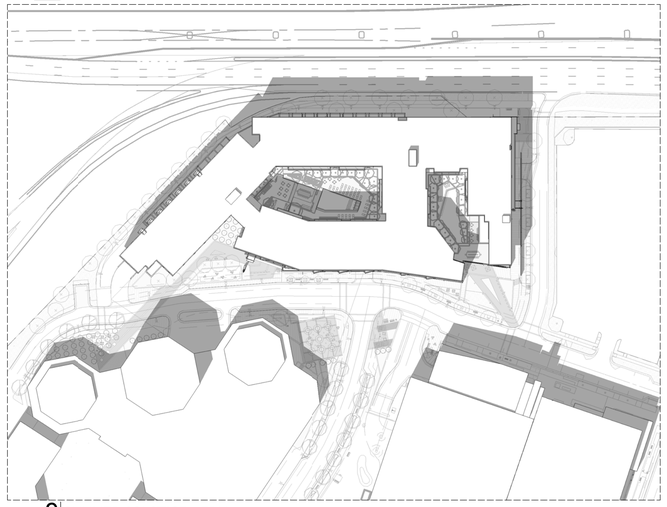
A-6 1" = 100'-0"



7 SUMMER SOLSTICE - 9AM
A-6 1" = 100'-0"



8 SUMMER SOLSTICE - 12PM
A-6 1" = 100'-0"



9 SUMMER SOLSTICE - 5PM
A-6 1" = 100'-0"

Application No: **FDP 2011-HM-032** Staff: **S.Lin**

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
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Date of Final Approval: **Jul 31, 2013** (_BOS) (X PC) (_BZA)
Comments: **Develop. Conds. Dated 7/31/2013**
Associated W/ RZ 2011-HM-032
Sheet **30** of **60**

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no.	date	revision
3	2013.06.12	
2	2013.05.10	
1	2013.02.25	

Project Number
211154.00

Project
TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase
FINAL DEVELOPMENT PLAN

Date
2013.06.12

Scale
1" = 100'-0"

Drawing
SHADOW STUDIES

No
A-6

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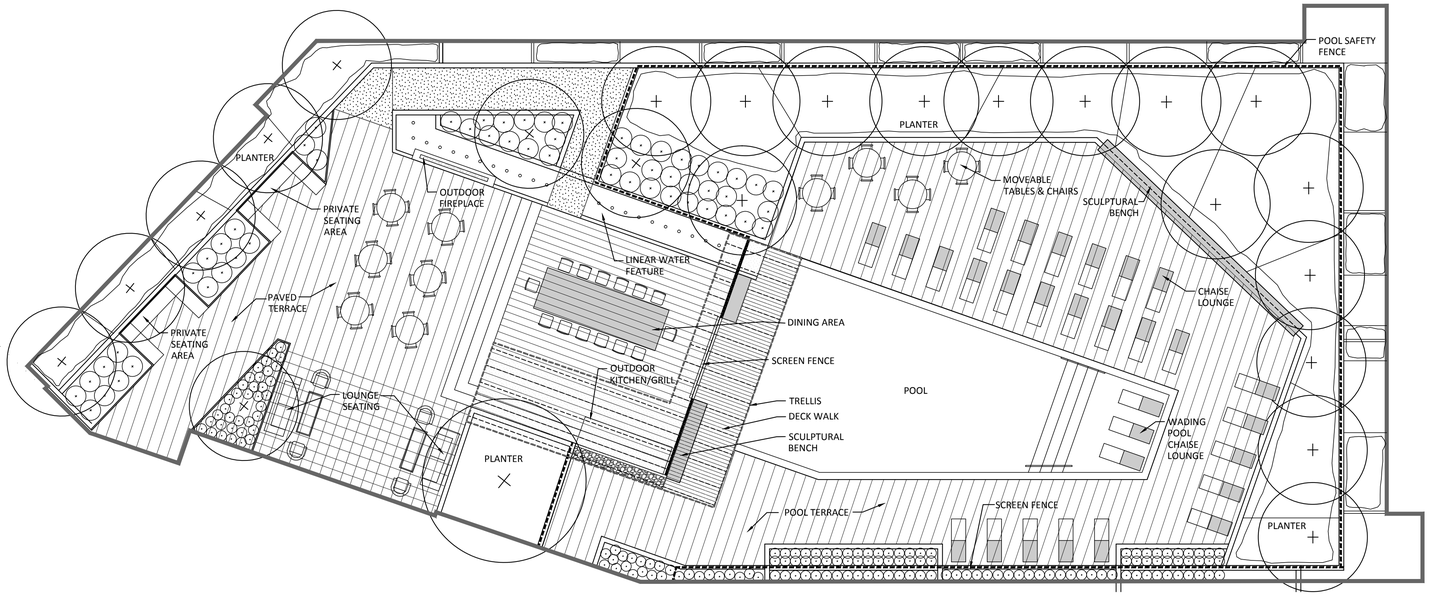
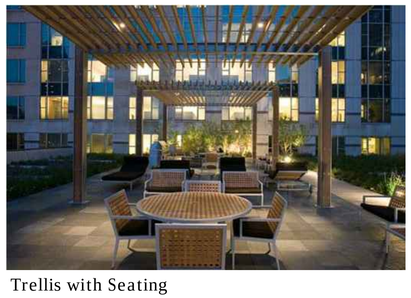


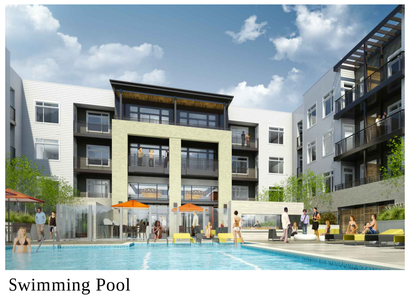
1 POOL COURTYARD
1" = 10'-0"

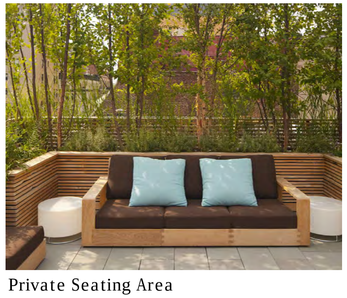
Paved Terrace

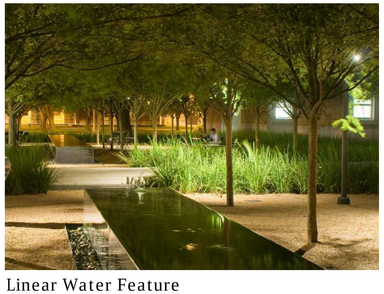
Moveable Tables & Chairs

Outdoor Fireplace


Trellis with Seating


Swimming Pool


Private Seating Area

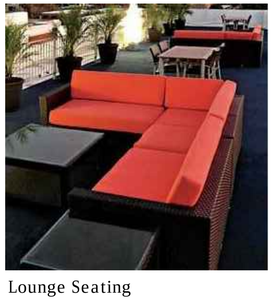

Linear Water Feature

Chaise Lounge

Wading Pool with Chaise Lounges

Screen Fence

Raised Planters/ Planting


Lounge Seating

2 PRECEDENT IMAGES

N

0 5' 10' 20'

SCALE: 1" = 10'-0"

NOTE: THE INFORMATION SHOWN ON THIS SHEET IS CONCEPTUAL AND SUBJECT TO CHANGE DURING THE DESIGN PHASE; HOWEVER IT IS INDICATIVE OF THE CONCEPT AND GENERAL CHRACTER OF THE FINAL DESIGN. AMENITIES MAY VARY.

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

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SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 31 of 60

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no.	date	revision
3	2013.06.12	
2	2013.05.10	
1	2013.02.25	

Project Number
211154.00

Project
TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase
FINAL DEVELOPMENT PLAN

Date
2013.06.12

Scale
As Shown

Drawing
COURTYARD LANDSCAPE

No
A-7

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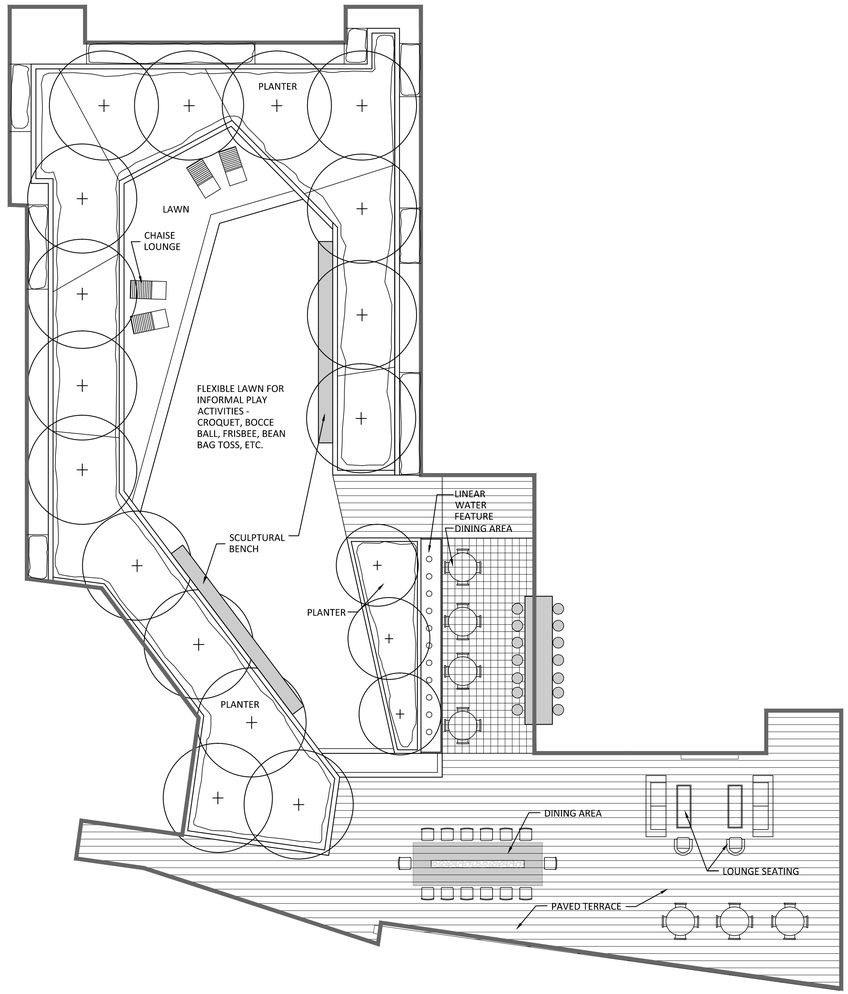


1 GARDEN COURTYARD

1" = 10'-0"

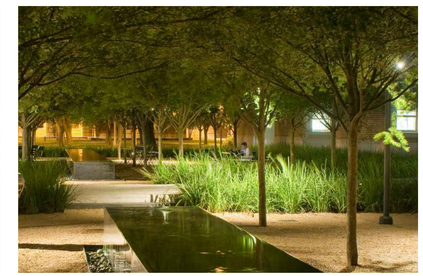
Lawn

Chaise Lounge

Informal Play on Lawn - Bocce Ball

Raised Planters/Planting

Informal Play on Lawn - Croquet



Linear Water Feature

Sculptural Bench

Paved Terrace

2 PRECEDENT IMAGES

N

0 5' 10' 20'

SCALE: 1" = 10'-0"

Application No: FDP 2011-HM-032 Staff: S.Lin

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Associated W/ RZ 2011-HM-032

Sheet 32 of 60

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Project

TYSONS WEST

FAIRFAX COUNTY, VIRGINIA

Phase

FINAL DEVELOPMENT PLAN

Date

2013.06.12

Scale

Drawing

No

A-8

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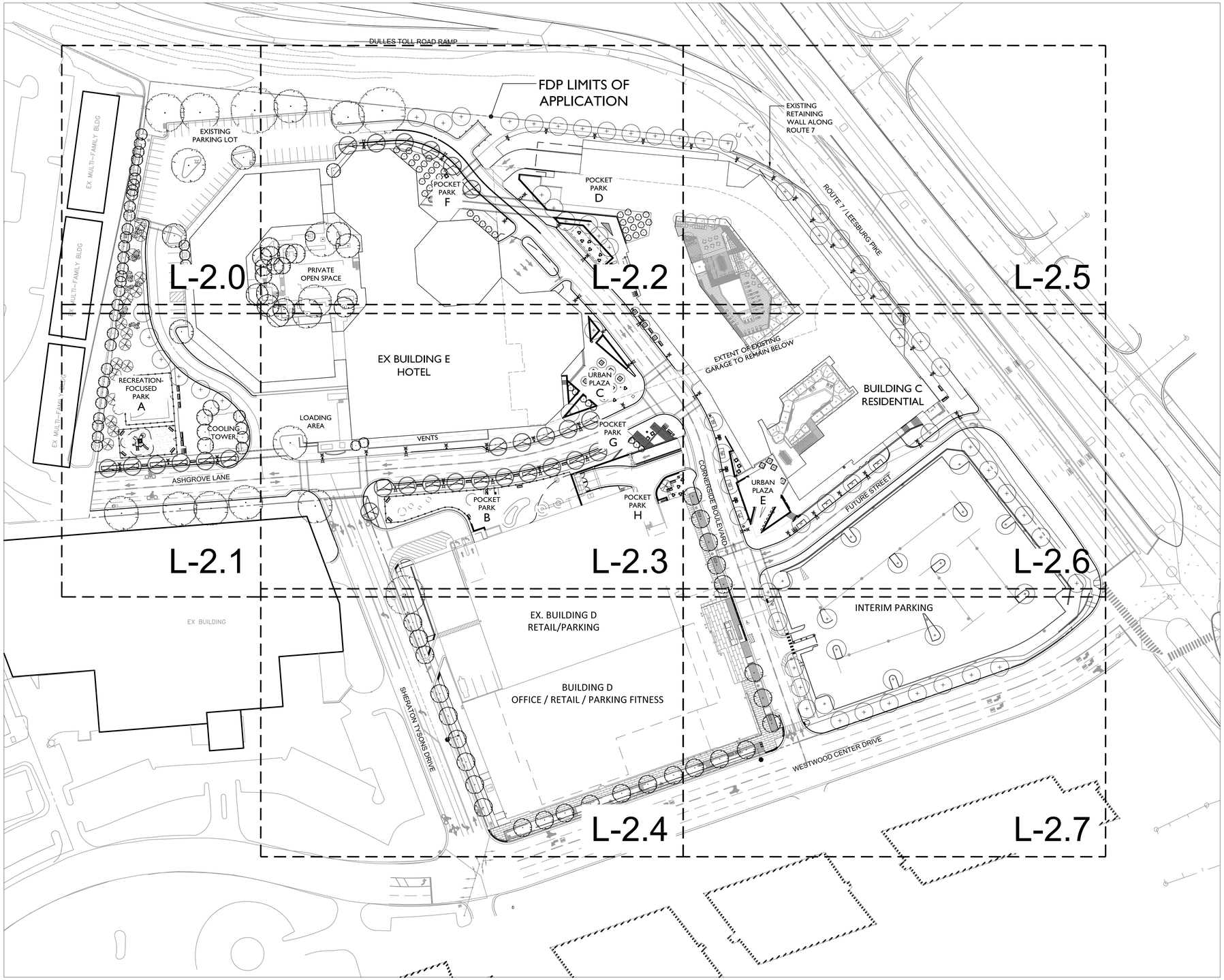

OVERALL PLAN - FDP

Application No: FDP 2011-HM-032 Staff: S.Lin

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Sheet 33 of 60

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NOT FOR CONSTRUCTION.

30 0' 30 60 120

NORTH

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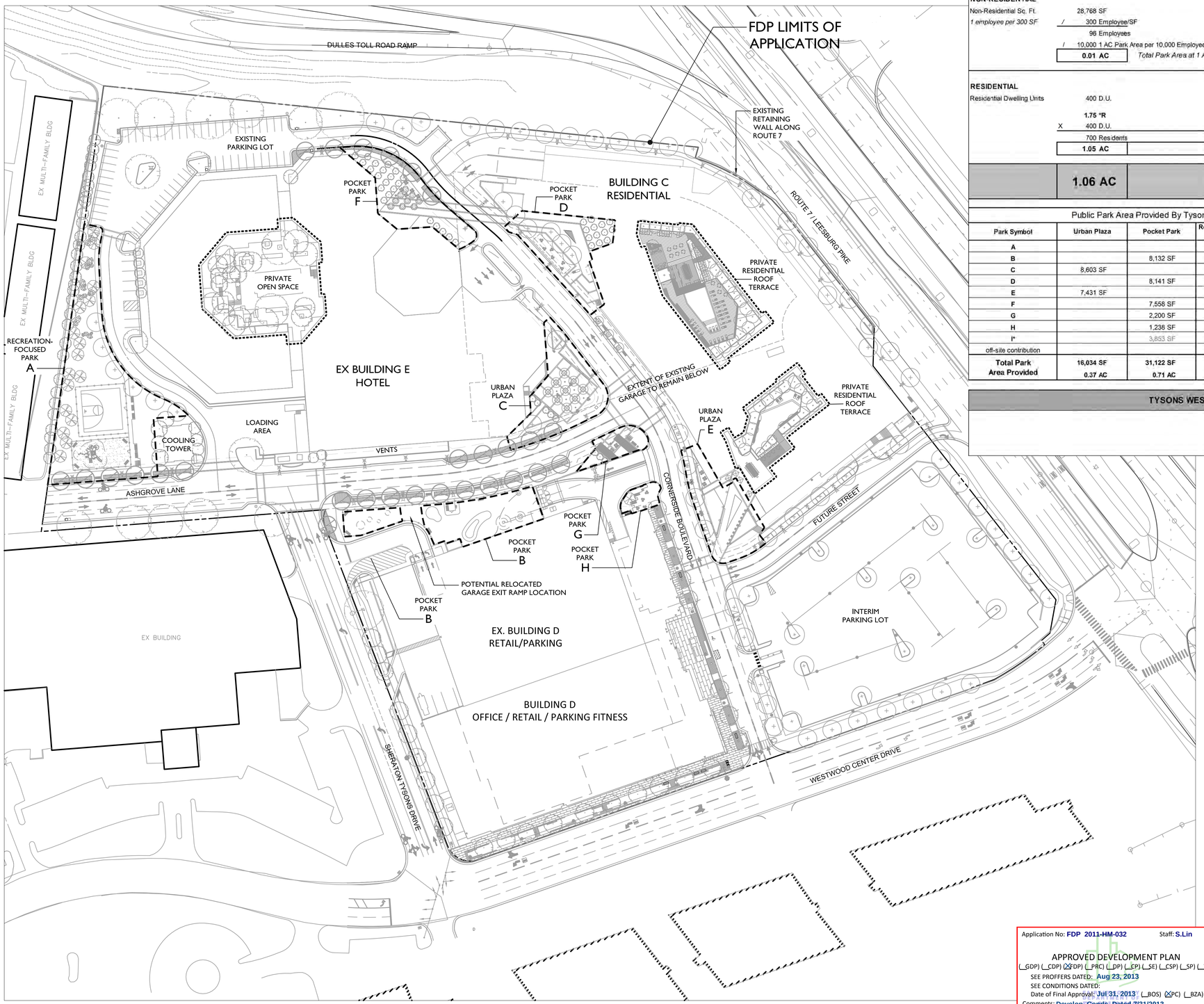
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

OVERALL PLAN

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2103
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-1.0



PARK PLAN - FDP

Tysons West Publicly Accessible Park Tabulation (Overall Site)

(Park Area Calculation Is Based On Park Area Recommendations In the Comprehensive Plan)

NON-RESIDENTIAL

Non-Residential Sq. Ft.	28,768 SF	
1 employee per 300 SF	/ 300 Employee/SF	
	96 Employees	
	/ 10,000 1 AC Park Area per 10,000 Employees	
	0.01 AC	*Total Park Area at 1 AC per 10,000 Employees*

RESIDENTIAL

Residential Dwelling Units	400 D.U.	(Buildings A,B and C)
	1.75 *R	***R** (ratio; see ratio options to left) residents per dwelling unit
	X 400 D.U.	D.U. = Dwelling Units
	700 Residents	Total Residents (See total number of residents per ratio to left)
	1.05 AC	*Total Park Area at 1.5 AC per 1,000 Residents*
	1.06 AC	**Total Park Area Recommended Per Comprehensive Plan for TYSONS WEST (Non-Residential Park Area + Residential Park Area)**

Public Park Area Provided By Tysons West

Park Symbol	Urban Plaza	Pocket Park	Recreation Focused Park	Total Park Area Provided	Comments
A			22,303 SF	22,303 SF	Included with FDP Submission 6-12-13
B		8,132 SF		8,132 SF	Included with FDP Submission 6-12-13
C	8,603 SF			8,603 SF	Included with FDP Submission 6-12-13
D		8,141 SF		8,141 SF	Included with FDP Submission 6-12-13
E	7,431 SF			7,431 SF	Included with FDP Submission 6-12-13
F		7,558 SF		7,558 SF	Included with FDP Submission 6-12-13
G		2,200 SF		2,200 SF	Included with FDP Submission 6-12-13
H		1,238 SF		1,238 SF	Included with FDP Submission 6-12-13
I*		3,853 SF		3,853 SF	Not included with FDP Submission 6-12-13
off-site contribution				21,780 SF	
Total Park Area Provided	**16,034 SF**	**31,122 SF**	**22,303 SF**	**65,606 SF**	* NOTE: Private Park/Open Space of 36,050 SF (eg: Multifamily Courtyards, Hotel Courtyard and Raised Plazas) not included in Total Park area Provided Tabulation.
	0.37 AC	**0.71 AC**	**0.51 AC**	**1.51 AC**	

TYSONS WEST - PARK SUMMARY - OVERALL PLAN

Total Public Park Area Provided
1.51 AC

TYSONS WEST PARK SUMMARY

FDP PUBLICLY ACCESSIBLE PARK SPACE PROVIDED: 1.51 AC. *
(PARKS A-H PLUS OFF-SITE CONTRIBUTION AS SUBMITTED WITH FDP)

* NOTE:
FDP TABULATION EXCLUDES POCKET PARK "I" (APPROX. 3853 SF.) TO BE LOCATED ON FUTURE BUILDING A/B BLOCK

FDP TABULATION AS SHOWN ON THIS SHEET DOES NOT CONTEMPLATE PARK IMPLICATIONS FROM POTENTIAL FUTURE RAMP ALIGNMENTS (SEE SHEET L-1.1A AND L-1.1B)

LEGEND

PUBLIC PARK @ GRADE

PRIVATE OPEN SPACE
(BOTH ELEVATED AND AT GRADE)
36,050 S.F. (.83 AC)

NOTE: AREA DESIGNATED AS PRIVATE OPEN SPACE NOT INCLUDED IN TOTAL PARK AREA PROVIDED TABULATION.

30 0' 30 60 120

NORTH

Application No: FDP 2011-HM-032 Staff: S.Lin

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Comments: Develop. Conds. Dated 7/31/2013
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Sheet 34 of 60

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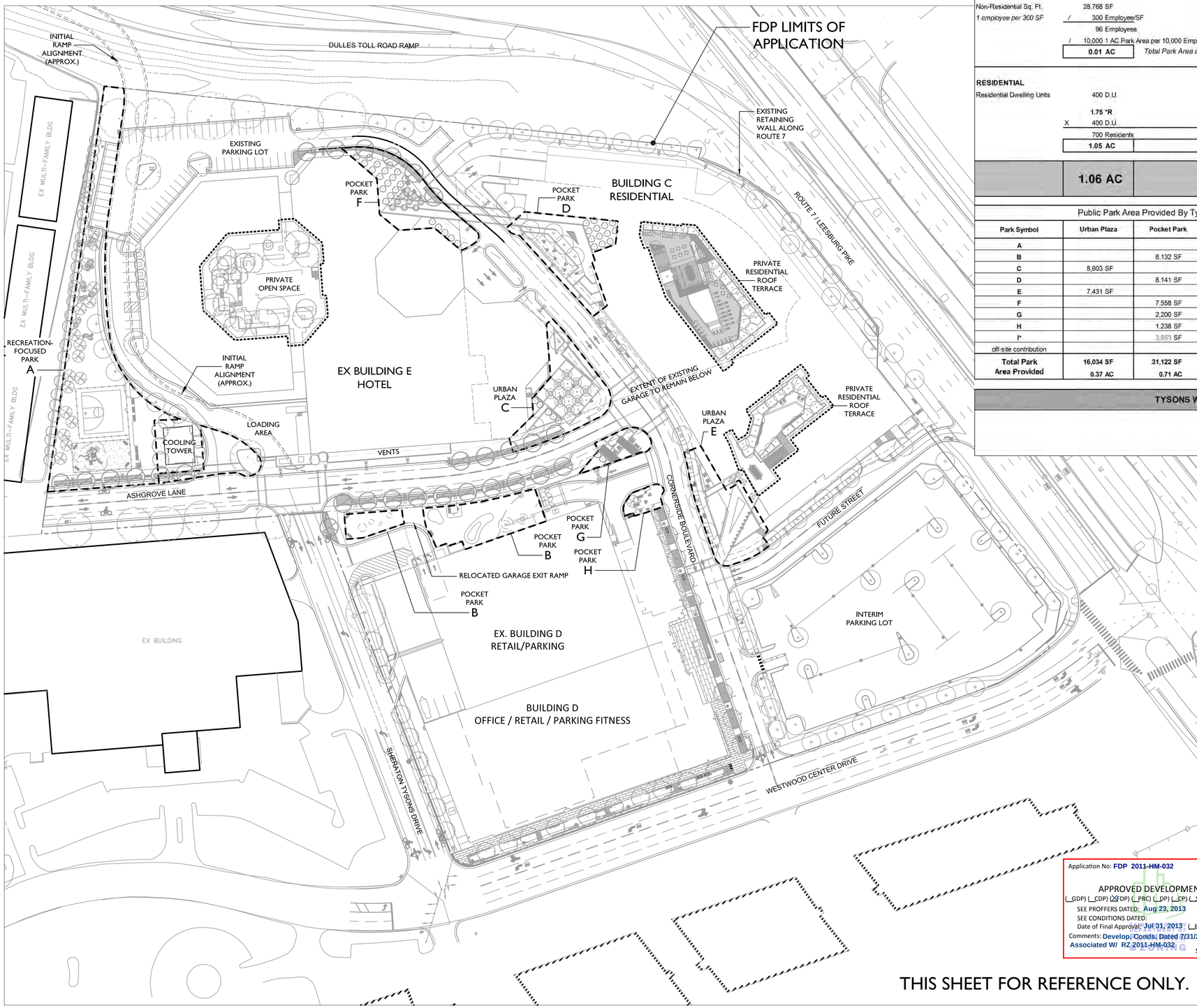
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

PARK PLAN

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2103
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-1.1



THIS SHEET FOR REFERENCE ONLY.

PARK PLAN - INITIAL RAMP

Tysons West Publicly Accessible Park Tabulation (Overall Site - Initial Ramp Alternative)

(Park Area Calculation is Based On Park Area Recommendations in the Comprehensive Plan)

NON-RESIDENTIAL

Non-Residential Sq. Ft.	28,768 SF		
1 employee per 300 SF	/ 300 Employee/SF		
	96 Employees		
	/ 10,000 1 AC Park Area per 10,000 Employees		
	0.01 AC	*Total Park Area at 1 AC per 10,000 Employees*	

RESIDENTIAL

Residential Dwelling Units	400 D.U.		(Buildings A,B and C)
	1.75 *R		***R** (ratio; see ratio options to left) residents per dwelling unit
	X 400 D.U.		D.U. = Dwelling Units
	700 Residents		Total Residents (See total number of residents per ratio to left)
	1.05 AC		*Total Park Area at 1.5 AC per 1,000 Residents*
	1.06 AC		**Total Park Area Recommended Per Comprehensive Plan for TYSONS WEST (Non-Residential Park Area + Residential Park Area)**

Public Park Area Provided By Tysons West

Park Symbol	Urban Plaza	Pocket Park	Recreation Focused Park	Total Park Area Provided	Comments
A			31,046 SF	31,046 SF	Included with FDP Submission (INITIAL RAMP ALT)
B		8,132 SF		8,132 SF	Included with FDP Submission (INITIAL RAMP ALT)
C	8,603 SF			8,603 SF	Included with FDP Submission
D		8,141 SF		8,141 SF	Included with FDP Submission
E	7,431 SF			7,431 SF	Included with FDP Submission
F		7,558 SF		7,558 SF	Included with FDP Submission
G		2,200 SF		2,200 SF	Included with FDP Submission
H		1,238 SF		1,238 SF	Included with FDP Submission
I*		3,853 SF		3,853 SF	Not included with FDP Submission
off-site contribution				21,780 SF	
Total Park Area Provided	**16,034 SF** / **0.37 AC**	**31,122 SF** / **0.71 AC**	**31,046 SF** / **0.71 AC**	**74,349 SF** / **1.71 AC**	* NOTE: Private Park/Open Space of 36,050 SF (eg. Multifamily Courtyards, Hotel Courtyard and Raised Plazas) not included in Total Park area Provided Tabulation.

TYSONS WEST - PARK SUMMARY - OVERALL PLAN

Total Public Park Area Provided
1.71 AC

TYSONS WEST RAMP LOCATION ALTERNATIVES

1) INITIAL RAMP ALIGNMENT (THIS SHEET)
PARK A AREA: 31,046 SF. APPROX.
PARK B AREA: 8,132 SF. APPROX.

2) FUTURE RAMP DEDICATION
PARK A AREA: 56,620 SF. APPROX.
PARK B AREA: 8,132 SF. APPROX.
(SEE SHEET L-1.1B)

TYSONS WEST PARK SUMMARY

FDP PUBLICLY ACCESSIBLE PARK SPACE PROVIDED: 1.71 AC. *
(PARKS A-H PLUS OFF-SITE CONTRIBUTION AS SUBMITTED WITH FDP)

* NOTE:
FDP PARK CALCULATION BASED ON REVISED PARK AREA FOR PARK A AND B

FDP TABULATION EXCLUDES POCKET PARK "I" (APPROX. 3853 SF.) TO BE LOCATED ON FUTURE BUILDING A/B BLOCK

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 35 of 60

LEGEND

PUBLIC PARK @ GRADE

PRIVATE OPEN SPACE
(BOTH ELEVATED AND AT GRADE)
36,050 S.F. (.83 AC)

NOTE: AREA DESIGNATED AS PRIVATE OPEN SPACE NOT INCLUDED IN TOTAL PARK AREA PROVIDED TABULATION.

30 0' 30 60 120

NORTH

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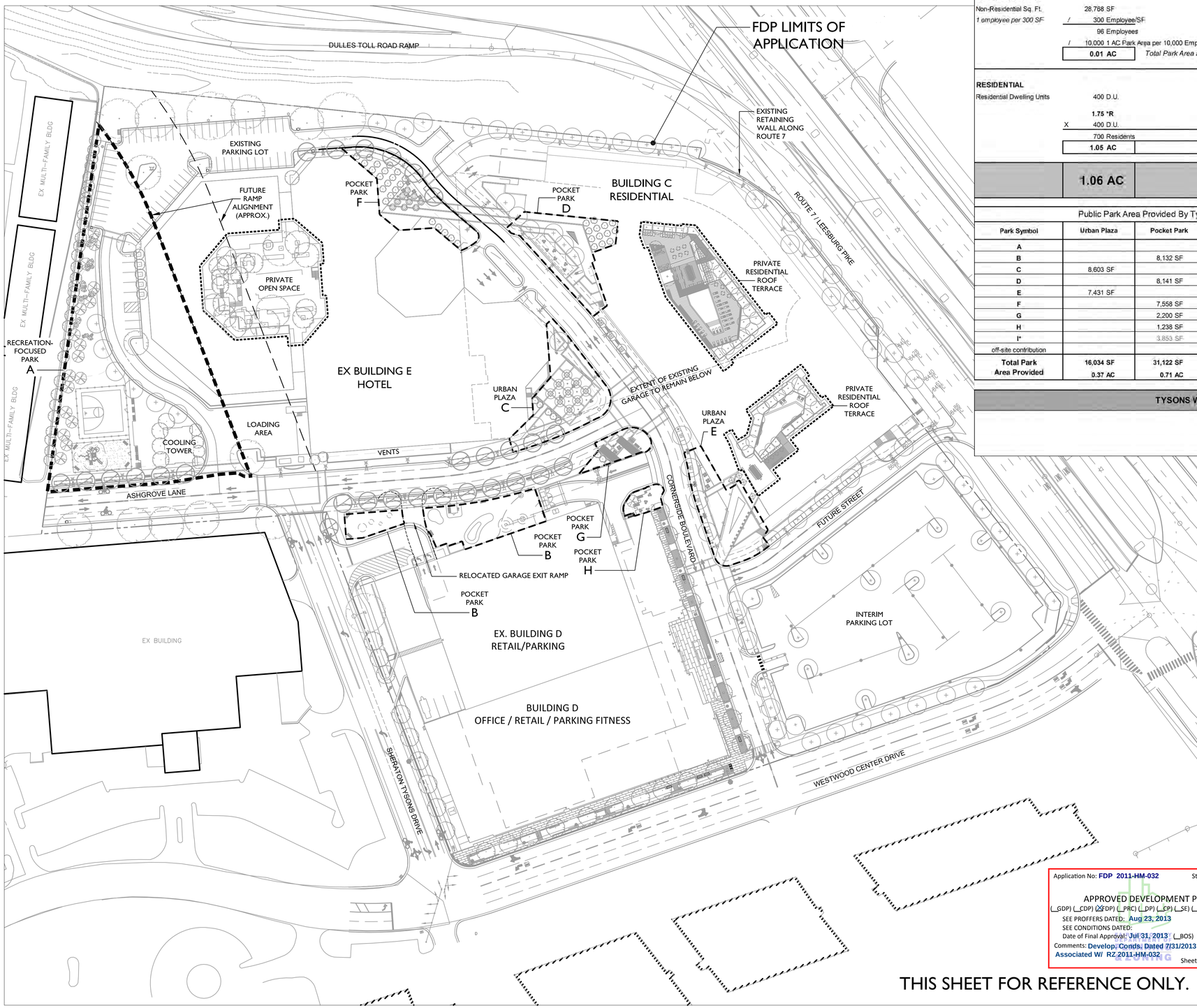
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

PARK PLAN - INITIAL RAMP ALTERNATIVE

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2103
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-1.1A



Tysons West Publicly Accessible Park Tabulation (Overall Site - Future Ramp Alternative)

(Park Area Calculation Is Based On Park Area Recommendations In the Comprehensive Plan)

NON-RESIDENTIAL

Non-Residential Sq. Ft.	28,768 SF	
1 employee per 300 SF	/ 300 Employee/SF	
	96 Employees	
	/ 10,000 1 AC Park Area per 10,000 Employees	
	0.01 AC	*Total Park Area at 1 AC per 10,000 Employees*

RESIDENTIAL

Residential Dwelling Units	400 D.U.	(Buildings A,B and C)
	1.75 *R	***R** (ratio; see ratio options to left) residents per dwelling unit
	X 400 D.U.	D.U. = Dwelling Units
	700 Residents	Total Residents (See total number of residents per ratio to left)
	1.05 AC	*Total Park Area at 1.5 AC per 1,000 Residents*
	1.06 AC	**Total Park Area Recommended Per Comprehensive Plan for TYSONS WEST (Non-Residential Park Area + Residential Park Area)**

Public Park Area Provided By Tysons West

Park Symbol	Urban Plaza	Pocket Park	Recreation Focused Park	Total Park Area Provided	Comments
A			56,260 SF	56,260 SF	Included with FDP Submission (FUTURE RAMP ALT)
B		8,132 SF		8,132 SF	Included with FDP Submission (FUTURE RAMP ALT)
C	8,603 SF			8,603 SF	Included with FDP Submission
D		8,141 SF		8,141 SF	Included with FDP Submission
E	7,431 SF			7,431 SF	Included with FDP Submission
F		7,558 SF		7,558 SF	Included with FDP Submission
G		2,200 SF		2,200 SF	Included with FDP Submission
H		1,238 SF		1,238 SF	Included with FDP Submission
I*		3,853 SF		3,853 SF	Not included with FDP Submission
off-site contribution				21,780 SF	
Total Park Area Provided	**16,034 SF** / **0.37 AC**	**31,122 SF** / **0.71 AC**	**56,260 SF** / **1.29 AC**	**99,563 SF** / **2.29 AC**	*** NOTE: Private Park/Open Space of 36,050 SF (eg. Multifamily Courtyards, Hotel Courtyard and Raised Plazas) not included in Total Park area Provided Tabulation.**

TYSONS WEST - PARK SUMMARY - OVERALL PLAN

Total Public Park Area Provided
2.29 AC

TYSONS WEST RAMP LOCATION ALTERNATIVES

1) INITIAL RAMP ALIGNMENT
PARK A AREA: 31,046 SF. APPROX.
PARK B AREA: 8,132 SF. APPROX.
(SEE SHEET L-1.1A)

2) FUTURE RAMP DEDICATION (THIS SHEET)
PARK A AREA: 56,620 SF. APPROX.
PARK B AREA: 8,132 SF. APPROX.

TYSONS WEST PARK SUMMARY

FDP PUBLICLY ACCESSIBLE PARK SPACE PROVIDED: 2.29 AC. *
(PARKS A-H PLUS OFF-SITE CONTRIBUTION AS SUBMITTED WITH FDP)

* NOTE:
FDP PARK CALCULATION BASED ON REVISED PARK AREA FOR PARK A AND B

FDP TABULATION EXCLUDES POCKET PARK "I" (APPROX. 3853 SF.) TO BE LOCATED ON FUTURE BUILDING A/B BLOCK

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
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Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 36 of 60

THIS SHEET FOR REFERENCE ONLY.

PARK PLAN - FUTURE RAMP

LEGEND

PUBLIC PARK @ GRADE

PRIVATE OPEN SPACE
(BOTH ELEVATED AND AT GRADE)
36,050 S.F. (.83 AC)

NOTE: AREA DESIGNATED AS PRIVATE OPEN SPACE NOT INCLUDED IN TOTAL PARK AREA PROVIDED TABULATION.

30 0' 30 60 120

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

PARK PLAN - FUTURE RAMP ALTERNATIVE

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2103
DESIGNED BY: GC/KP
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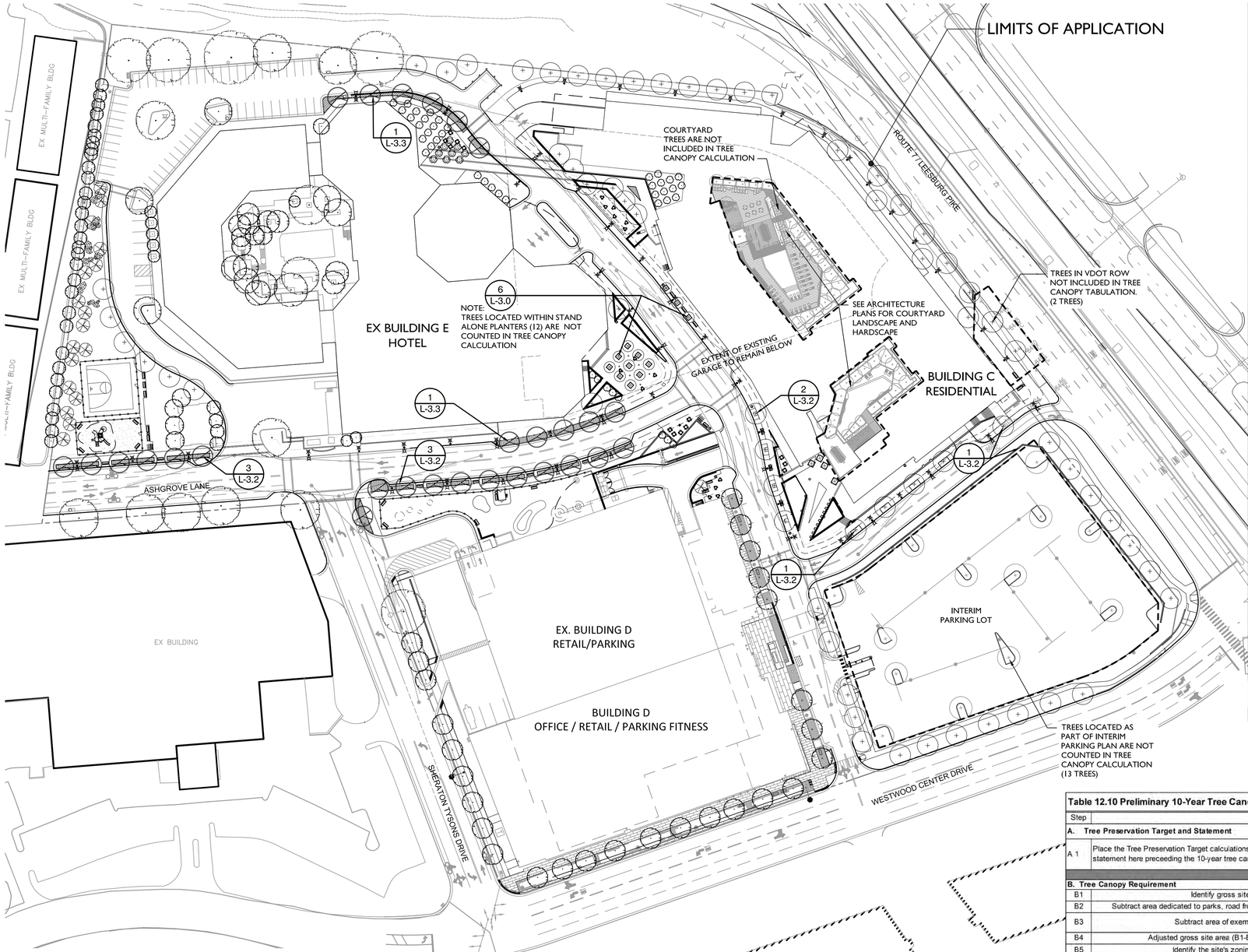
PROJECT #: 2011009

SHEET NUMBER:
L-1.1B



LEGEND

SYMBOL	NOTES
1 / L-3.2	STREET TREE STANDARD PIT AT LOCAL STREET
2 / L-3.2	STREE TREE STANDARD PIT WITH TREE GRATE AT LOCAL STREET
3 / L-3.2	STREET TREE BIORETENTION PIT ADJACENT TO PARKING AT LOCAL STREET
1 / L-3.3	STREET TREE BIORETENTION PIT AT LOCAL STREET
6 / L-3.0	ORNAMENTAL TREE WITHIN STAND ALONE PLANTER INDICATED BY THIS SYMBOL - (+) (NOTE: NOT COUNTED IN TREE CANOPY CALCULATIONS.)

TYSONS WEST FDP PLANTING LIST AND CANOPY COVERAGE

STREET TREES IN PLANTER (CATEGORY IV)
PUBLIC REALM (LANDSCAPE AMENITY PANEL)

KEY	QTY	BOTANICAL NAME	COMMON NAME	STOCK SIZE	10-YR CANOPY	TREE CANOPY SUBTOTAL SF
+	66	Acer rubrum 'October Glory'	October Glory Maple	3.0"-3.5" Cal.	250 s.f.	16,500 s.f.
		Platanus x acerifolia `Liberty`	London Plane Tree	3.0"-3.5" Cal.	250 s.f.	
		Quercus borealis	Northen Red Oak	3.0"-3.5" Cal.	250 s.f.	
		Ulmus americana `Valley Forge`	American Elm	3.0"-3.5" Cal.	250 s.f.	
		Ulmus parvifolia `Allee`	Allee Lacebark Elm	3.5"-4.5" Cal.	250 s.f.	

STREET TREES IN BIORETENTION (CATEGORY IV)
PUBLIC REALM (LANDSCAPE AMENITY PANEL)

KEY	QTY	BOTANICAL NAME	COMMON NAME	STOCK SIZE	10-YR CANOPY	TREE CANOPY SUBTOTAL SF
⊘	28	Acer rubrum 'October Glory'	October Glory Maple	3.0"-3.5" Cal.	250 s.f.	7,000 s.f.
		Platanus x acerifolia `Liberty`	London Plane Tree	3.0"-3.5" Cal.	250 s.f.	
		Quercus phellos	Willow Oak	3.0"-3.5" Cal.	250 s.f.	
		Ulmus parvifolia `Allee`	Allee Lacebark Elm	3.0"-3.5" Cal.	250 s.f.	

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM (LANDSCAPE AMENITY PANEL and OPEN SPACES)

KEY	QTY	BOTANICAL NAME	COMMON NAME	STOCK SIZE	10-YR CANOPY	TREE CANOPY SUBTOTAL SF
⊗	18	Betula nigra	River Birch	2" Cal.	150 s.f.	2,700 s.f.
		Cercidiphyllum japonicum	Katsuratree	2" Cal.	150 s.f.	
		Cladrastis kentuckea	Yellowwood	2" Cal.	150 s.f.	
		Gleditsia triacanthos inermis	Thornless Honeylocust	2" Cal.	150 s.f.	
		Prunus serrulata 'Kwansan'	Kwansan Cherry	2" Cal.	150 s.f.	
		Prunus sargentii	Sargent Cherry	2" Cal.	150 s.f.	
		Prunus x yedoensis	Yoshino Cherry	2" Cal.	150 s.f.	

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM (OPEN SPACES)

KEY	QTY	BOTANICAL NAME	COMMON NAME	STOCK SIZE	10-YR CANOPY	TREE CANOPY SUBTOTAL SF
⊙	52	Cercis canadensis	Eastern Redbud	2" Cal.	100 s.f.	5,200 s.f.
		Cornus florida	Flowering Dogwood	2" Cal.	100 s.f.	
		Magnolia stellata	Star Magnolia	2" Cal.	100 s.f.	
		Prunus x incam 'Okame'	Okame Cherry	2" Cal.	100 s.f.	
		Stewartia koreana	Korean Stewartia	2" Cal.	100 s.f.	
		Stewartia ovata	Mountain Stewartia	2" Cal.	100 s.f.	
		Stewartia psuedocamellia	Japanese Stewartia	2" Cal.	100 s.f.	
					PROPOSED TREE PLANTING CANOPY TOTAL:	**31,400 s.f.**

EXISTING TREES TO REMAIN (INCLUDING WALMART SITE)

KEY	QTY	BOTANICAL NAME	COMMON NAME	STOCK SIZE	10-YR CANOPY	TREE CANOPY SUBTOTAL SF
	See Note #1	Varies	Varies	Varies	Varies	33,291 s.f.
					TREE PRESERVATION MULTIPLIER	1.25
					EXISTING TREE CANOPY TO REMAIN TOTAL:	**41,614 s.f.**
					TOTAL TREE CANOPY COVERAGE PROVIDED:	**73,014 s.f.**

NOTE:
1. SEE EXISTING VEGETATION MAP FOR INFORMATION ON EXISTING TREES TO REMAIN.
2. THE ABOVE PLANT LIST IS PRELIMINARY AND NOT INCLUSIVE OF ALL SPECIES THAT MAY BE SPECIFIED. FINAL PLANT SELECTION WILL BE MADE AT SITE PLAN SUBMISSION AND SHALL MEET 10-YEAR TREE CANOPY AREA PER CATEGORY.
3. SEE SHEETS L-3.2 & L-3.3 FOR STREET TREE PLANTING DETAILS.

Table 12.10 Preliminary 10-Year Tree Canopy Calculation Worksheet

Step		Totals	Reference
A. Tree Preservation Target and Statement			
A 1	Place the Tree Preservation Target calculations and statement here preceeding the 10-year tree canopy	C-9	see § 12-0508.2 for list of required elements and worksheet
B. Tree Canopy Requirement			
B1	Identify gross site area (SF) =	697,858	§ 12-0511.1A
B2	Subtract area dedicated to parks, road frontage(SF) =	0	§ 12-0511.1B
B3	Subtract area of exemptions(SF) =	0	§ 12-0511.1C(1) through § 12-0511.1C(6)
B4	Adjusted gross site area (B1-B2,B3)(SF) =	697,858	Square feet
B5	Identify the site's zoning and/or use	PTC	
B6	Percentage of 10-year tree canopy required =	10.0%	§ 12-0510.1 and Table 12.4
B7	Area of 10-year Tree Canopy Required (B4 x B6)(SF) =	69,786	Square feet
B8	Modification of 10-year Tree Canopy Requirements requested?	NO	Yes or No
B9	If B8 is yes, then list plan sheet where modification request is located	–	Sheet number
C. Tree Preservation			
C 1	Tree Preservation Target Area(SF) =	9,747	Square Feet
C 2	Total canopy area meeting standards of § 12-0400 (SF) =	33,291	Square Feet
C 3	C 2 x 1.25(SF) =	41,614	§ 12-0510.3B
C 4	Total canopy area provided by unique or valuable forest or woodland communities(SF) =	0	Square Feet
C 5	C 4 x 1.5(SF) =	0	§ 12-0510.3B(1)
C 6	total of canopy area provided by "Heritage," "Memorial," "Specimen," or "Street" trees (SF) =	0	Square Feet
C 7	C 6 x 1.5 to 3.0 (SF)=	0	§ 12-0510.3B(2)
C 8	Canopy area of trees within resource Protection Areas and 100-year floodplains (SF) =	0	Square Feet
C 9	C 8 x 1.0 (SF) =	0	§ 12-0510.3C(1)
C 10	Total of C 3, C 5, C 7 and C 9 =	41,614	If area of C 10 is less than B 7 remainder of requireent must be met through tree planting - go to D

D. Tree Planting			
D 1	Area of canopy to be met through tree planting (B 7-C10) =	28,172	Square feet
D 2	Area of canopy planted for air quality benefits =	0	Square feet
D 3	D 2 x 1.5 (SF) =	0	§ 12-0510.4B(1)
D 4	Area of canopy planted for energy conservation =	0	Square feet
D 5	D 4 x 1.5 (SF) =	0	§ 12-0510.4B(2)
D 6	Area of canopy planted for water quality benefits =	0	Square feet
D 7	D 6 x 1.25 (SF) =	0	§ 12-0510.4B(3)
D 8	Area of canopy planted for wildlife benefits =	0	Square feet
D 9	D 8 x 1.5 (SF) =	0	§ 12-0510.4B(4)
D 10	Area of canopy provided by native trees =	0	Square feet
D 11	D 10 x 1.5 (SF) =	0	§ 12-0510.4B(5)
D 12	Area of canopy provided by improved cultivars and varieties	0	Square feet
D 13	D 12 x 1.25 (SF) =	0	§ 12-0510.4B(6)
D 14	Area of canopy provided through tree seedlings (SF) =	0	§ 12-0510.4D(1)
	D 14 x 1.0 =	0	Square feet
D 15	Area of canopy provided through native shrubs=		
	D15 x 1.0 =	0	
D 16	Percentage of D 14 represented by D 15 =	0.0%	Must not exceed 33% of D 14
	Area of canopy to be planted with no benefit credits =	31,400	Square feet
D 17	Total of canopy area provided through tree planting =	31,400	Square feet
D 18	Is an offsite planting relief requested?	NO	Yes or No
D 19	Tree Bank or Tree Fund?	NO	Yes or No § 12-0512
D 20	Canopy area requested to be provided through offsite banking or tree fund =	0	Square Feet
D 21	Amount to be deposited into the Tree Preservation and Planting Fund =	0	
E. Total of 10-year Tree Canopy Provided			
E 1	Total of canopy area provided through tree preservation (C 10) =	41,614	Square Feet
E 2	Total of canopy area provided through tree planting (D 17) =	31,400	Square Feet
E 3	Total of canopy area provided through offsite mechanism (D 19) =	0	Square Feet
E 4	Total of 10-year Tree Canopy Provided (SF)= (E1+E2+E3)	73,014	Total of E 1 through E 3, area should meet or exceed area in B 7

INTERIOR PARKING LOT LANDSCAPING CALCULATIONS				
PARKING LOT AREA (SF)	TREE COVER REQ (SF)	TREE CANOPY COVER PER TREE (SF)	NUMBER OF TREES REQUIRED	NUMBER OF TREES PROVIDED
61,935	3,097	250	13	13

LANDSCAPE PLAN NOTE:
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30 0' 30 60 120

NORTH

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 37 of 60

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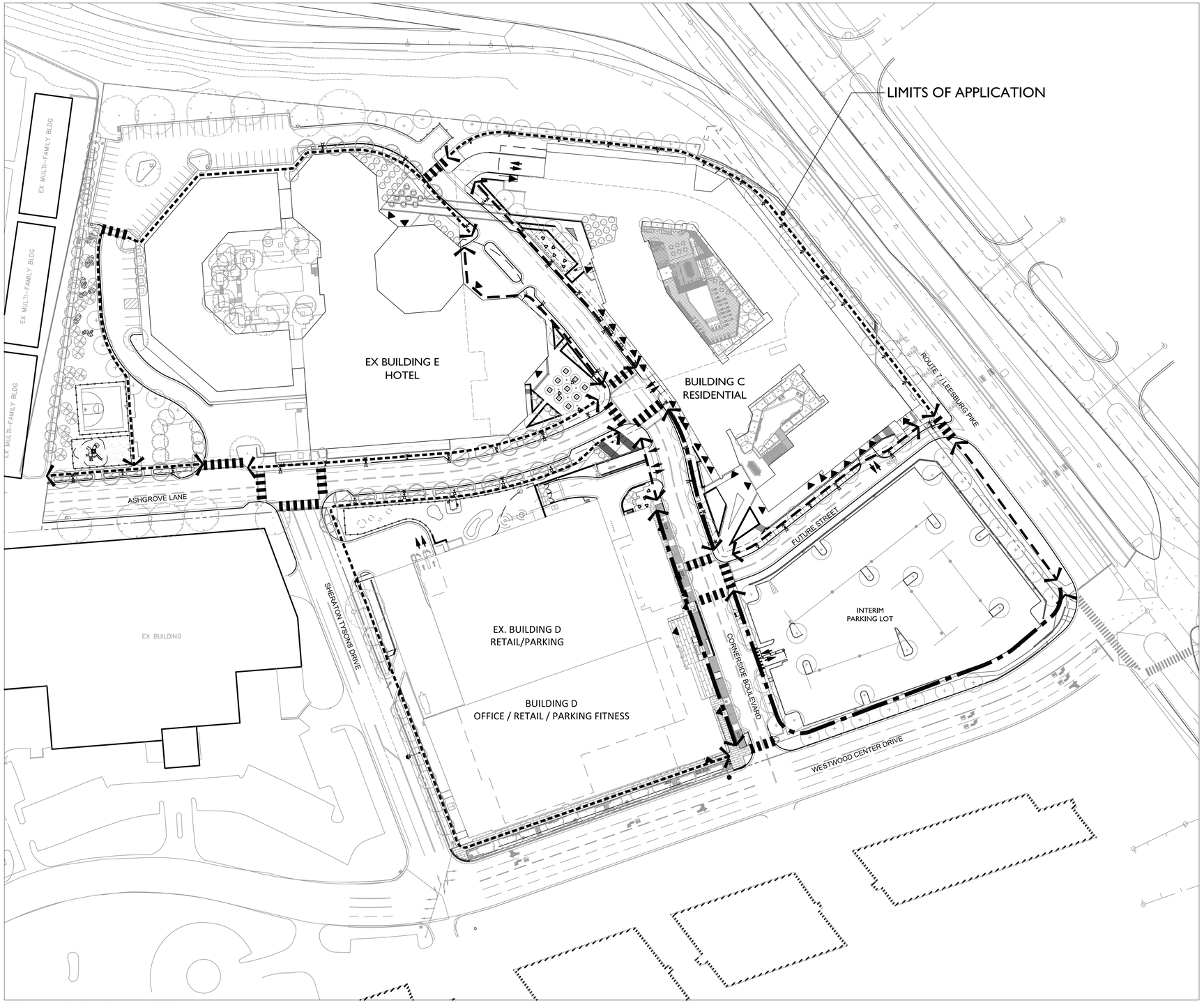
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

OVERALL TREE PLAN

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QUALITY CHECK:
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L2



CIRCULATION PLAN - FDP

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 38 of 60

LEGEND

- LIMITS OF APPLICATION
- PRIMARY PEDESTRIAN CORRIDOR
- SECONDARY PEDESTRIAN CORRIDOR
- TERTIARY PEDESTRIAN CORRIDOR
- RESIDENTIAL LOBBY ENTRANCES
- RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCES
- VEHICULAR ENTRANCES
- PEDESTRIAN CROSSWALK

NOTE: ALL DRAWINGS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO CHANGE PER FINAL ARCHITECTURE, CIVIL, AND SITE DESIGN.
NOT FOR CONSTRUCTION.

30 0' 30 60 120

NORTH

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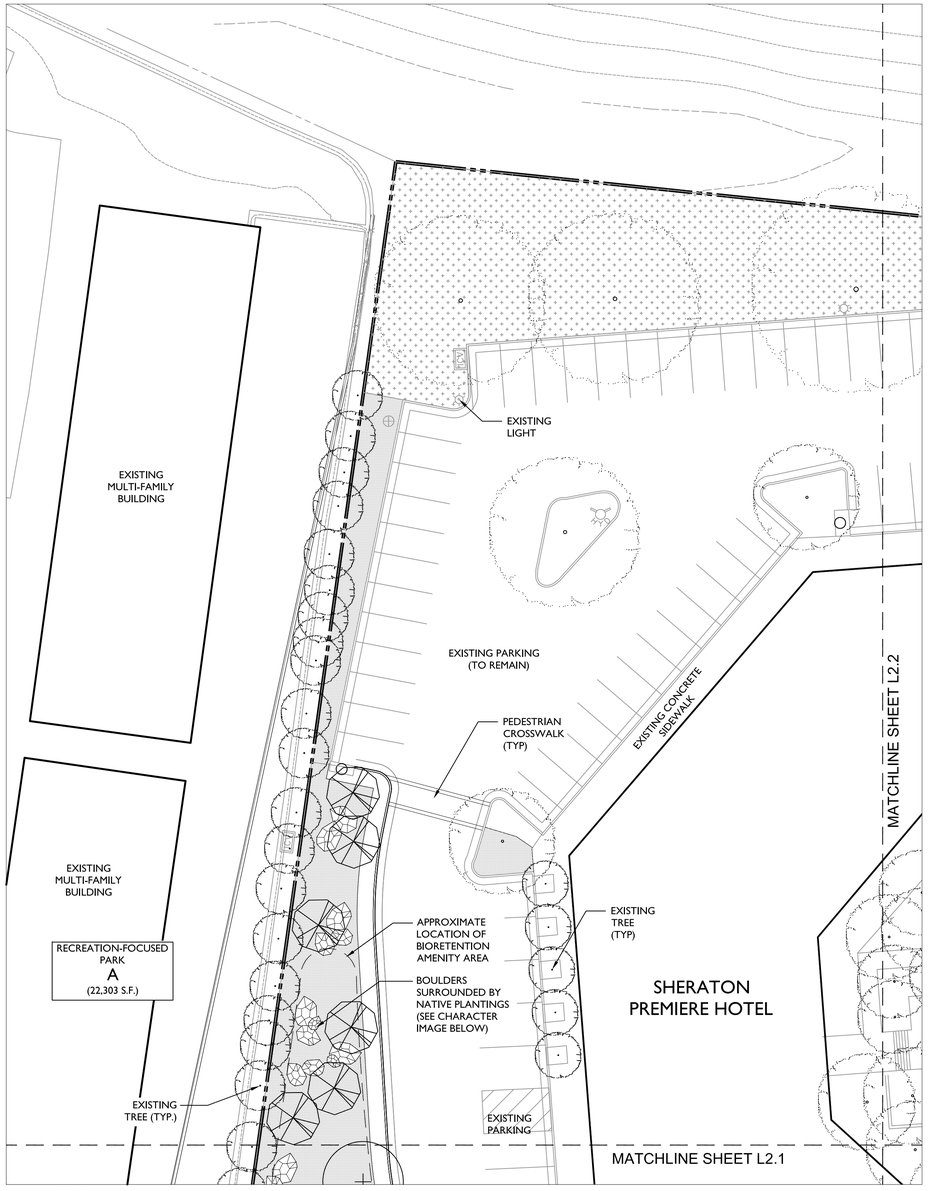
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

PEDESTRIAN CIRCULATION PLAN

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QA/QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-1.3



PARK "A" NORTH

BIORETENTION AMENITY AREA

PARK "A" CHARACTER IMAGES

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

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Sheet 39 of 60

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10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty` /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge` /American Elm
Ulmus parvifolia `Allee` /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory' / October Glory Maple
Platanus x acerifolia `Liberty` / London Plane Tree
Quercus phellos / Willow Oak
Ulmus parvifolia `Allee` / Allee Lacebark Oak

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
Prunus serrulata 'Kwansan' / Kwansan Cherry
Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
Cercis canadensis / Eastern Redbud
Cornus florida / Flowering Dogwood
Magnolia stellata / Star Magnolia
Prunus x incam 'Okame' / Okame Cherry
Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

NOTE:
TREE LISTING IS NOT INTENTED TO BE ALL INCLUSIVE. SPECIFIC SELECTIONS WILL BE SUBMITTED WITH FINAL SITE PLAN

PLANT MATERIAL

BIORETENTION TREE PIT

LAWN

SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0

STONE BENCH - DETAIL 3/L3.0

BIKE RACK - DETAIL 4/L3.0

CAFE TABLE AND CHAIRS - DETAIL 5/L3.0

TREE PLANTER - DETAIL 6/L3.0

LITTER RECEPTACLE - DETAIL 7/L3.0

STAND UP COUNTER - DETAIL 8/L3.0

PEDESTRIAN LIGHT - DETAIL 2/L3.0

STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
LIGHT SPACING IS SCHEMATIC ONLY AND SUBJECT TO REVISION BASED UPON FINAL PHOTOMETRICS PLAN.
POLE SPACING IS 55' O.C. +/-
EXISTING LIGHT POLES ARE NOTED ON PLANS

PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE

ACCENT 1 UNIT PAVERS

POSSIBLE PERMEABLE PAVERS

FIELD PAVING 2 UNIT PAVERS

ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

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TYSONS WEST
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JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

LANDSCAPE PLAN - PARK "A" NORTH

REVISIONS:
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REV 2 FDP RESUBMISSION 06-12-13

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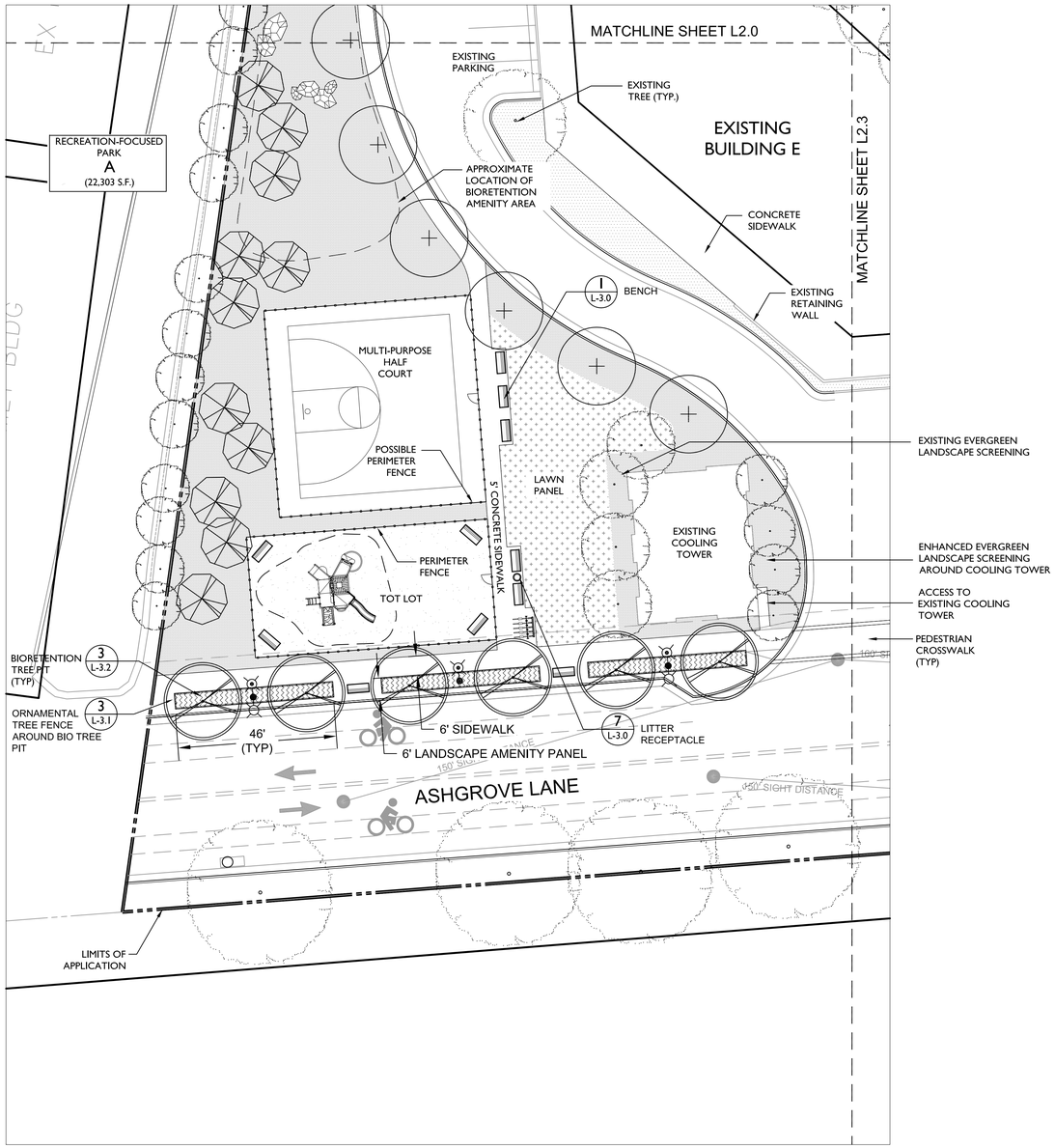
SHEET NUMBER:
L-2.0



PARK "A" SOUTH

MULTI-PURPOSE HALF COURT

TOT LOT/PLAY AREA

PARK "A" CHARACTER IMAGES

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 40 of 60

NOTE:
CONTINGENT TO THE RAMP, A BUS STOP WILL BE PROVIDED IN PARK A. SEE PROFFERS.

LANDSCAPE PLAN NOTE:
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10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty' /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge `/American Elm
Ulmus parvifolia `Allee` /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory' / October Glory Maple
Platanus x acerifolia `Liberty' / London Plane Tree
Quercus phellos / Willow Oak
Ulmus parvifolia `Allee` / Allee Lacebark Oak

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
Prunus serrulata 'Kwansan' / Kwansan Cherry
Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
Cercis canadensis / Eastern Redbud
Cornus florida / Flowering Dogwood
Magnolia stellata / Star Magnolia
Prunus x incam 'Okame' / Okame Cherry
Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

NOTE:
TREE LISTING IS NOT INTENTED TO BE ALL INCLUSIVE. SPECIFIC SELECTIONS WILL BE SUBMITTED WITH FINAL SITE PLAN

PLANT MATERIAL

BIORETENTION TREE PIT

LAWN

SHRUB AND GROUNDCOVER

EXTENSIVE GREEN ROOF

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0

STONE BENCH - DETAIL 3/L3.0

BIKE RACK - DETAIL 4/L3.0

CAFE TABLE AND CHAIRS - DETAIL 5/L3.0

TREE PLANTER - DETAIL 6/L3.0

LITTER RECEPTACLE - DETAIL 7/L3.0

STAND UP COUNTER - DETAIL 8/L3.0

PEDESTRIAN LIGHT - DETAIL 2/L3.0

STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
LIGHT SPACING IS SCHEMATIC ONLY AND SUBJECT TO REVISION BASED UPON FINAL PHOTOMETRICS PLAN.
POLE SPACING IS 55' O.C. +/-
EXISTING LIGHT POLES ARE NOTED ON PLANS

PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE

ACCENT 1 UNIT PAVERS

POSSIBLE PERMEABLE PAVERS

FIELD PAVING 2 UNIT PAVERS

ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

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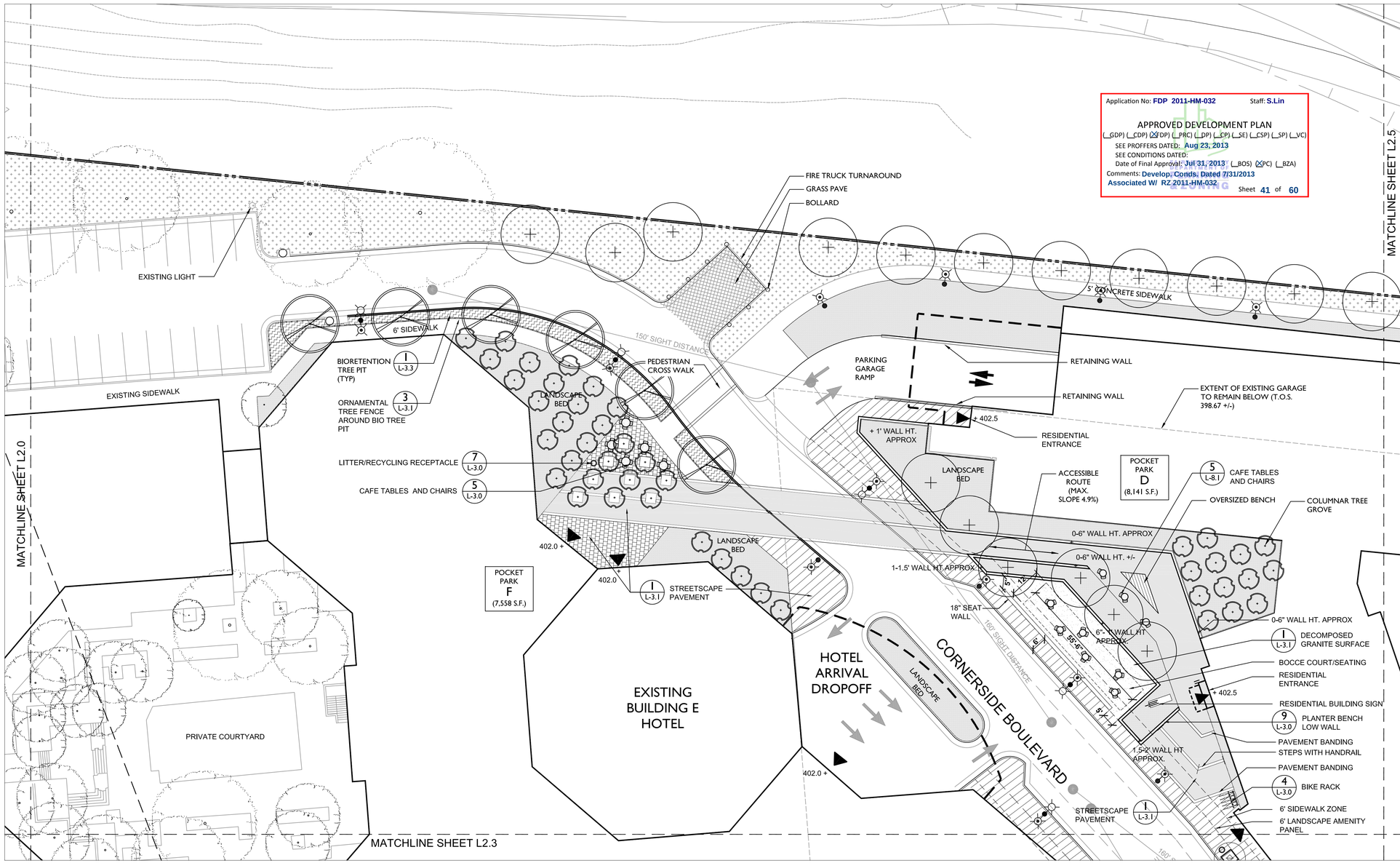
LANDSCAPE PLAN - PARK "A" SOUTH

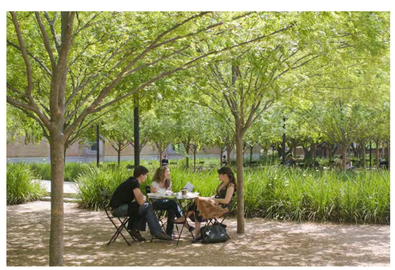
REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.1



PARKS "D" AND "F"



POCKET PARK 'D' -VARIED MATERIAL TEXTURES

POCKET PARK 'D' - TREE GROVE

POCKET PARK 'D' - BOCCE

POCKET PARK 'F' - LOW IMPACT DEVELEOPMENT OPPORTUNITY

PARKS "D" AND "F" CHARACTER IMAGES

NOTE:
GRADING AND WALL HT. INFORMATION AS SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

LANDSCAPE PLAN NOTE:
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10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty' /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge` /American Elm
Ulmus parvifolia `Allee` /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
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Platanus x acerifolia `Liberty' / London Plane Tree
Quercus phellos / Willow Oak
Ulmus parvifolia `Allee` / Allee Lacebark Oak

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
Prunus serrulata 'Kwansan' / Kwansan Cherry
Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
Cercis canadensis / Eastern Redbud
Cornus florida / Flowering Dogwood
Magnolia stellata / Star Magnolia
Prunus x incam 'Okame' / Okame Cherry
Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

NOTE:
TREE LISTING IS NOT INTENTED TO BE ALL INCLUSIVE. SPECIFIC SELECTIONS WILL BE SUBMITTED WITH FINAL SITE PLAN

PLANT MATERIAL

BIORETENTION TREE PIT
LAWN
SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0
STONE BENCH - DETAIL 3/L3.0
BIKE RACK - DETAIL 4/L3.0
CAFE TABLE AND CHAIRS - DETAIL 5/L3.0
TREE PLANTER - DETAIL 6/L3.0
LITTER RECEPTACLE - DETAIL 7/L3.0
STAND UP COUNTER - DETAIL 8/L3.0
PEDESTRIAN LIGHT - DETAIL 2/L3.0
STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
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POLE SPACING IS 55' O.C. +/-
EXISTING LIGHT POLES ARE NOTED ON PLANS

PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE
ACCENT 1 UNIT PAVERS
POSSIBLE PERMEABLE PAVERS
FIELD PAVING 2 UNIT PAVERS
ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE
RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE
VEHICLE DIRECTION/ENTRANCE

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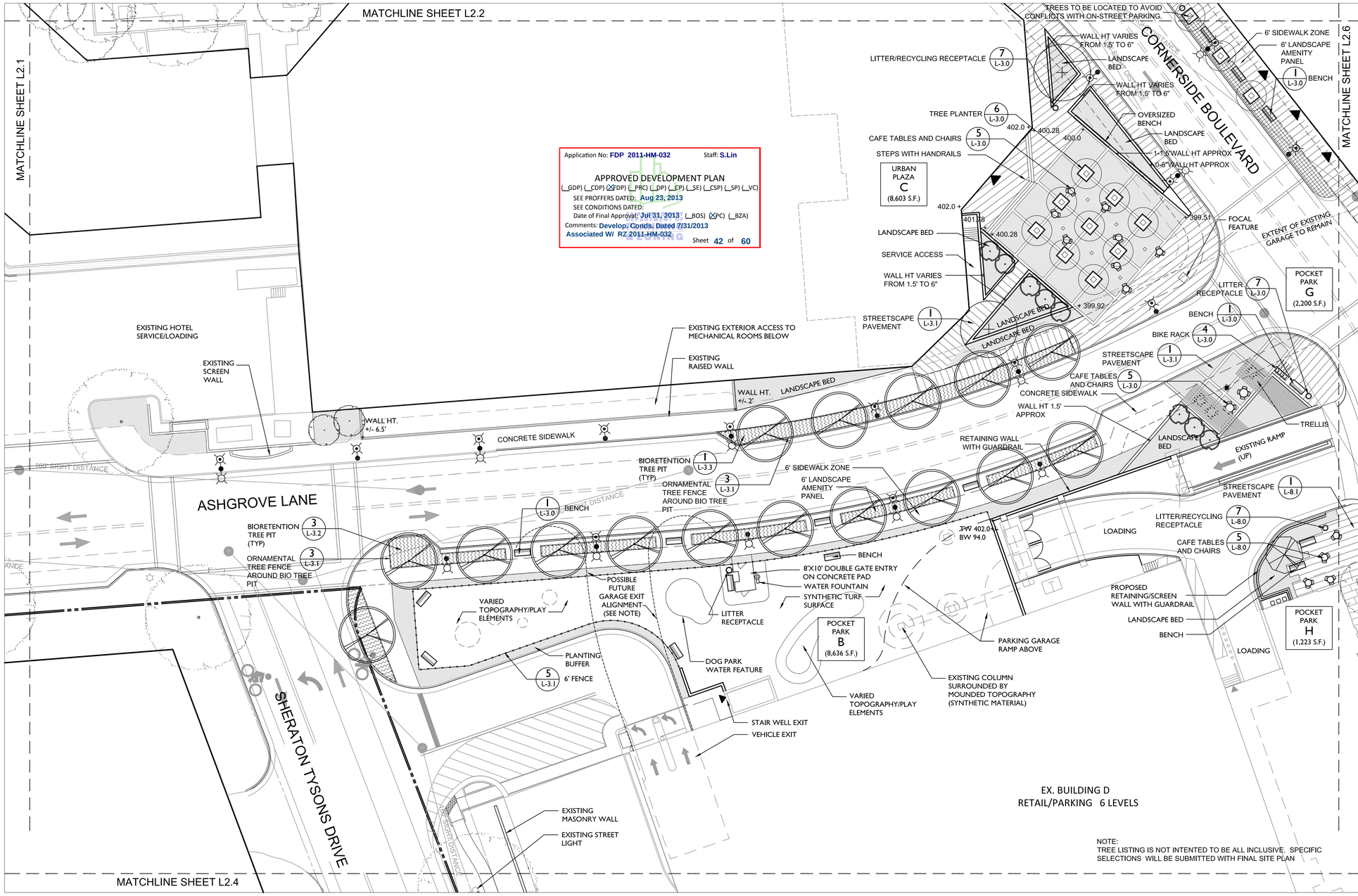
LANDSCAPE PLAN - PARKS "D" AND "F"

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.2



LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty` /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge` /American Elm
Ulmus parvifolia `Allee` /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
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Ulmus parvifolia `Allee` / Allee Lacebark Oak

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
Prunus serrulata 'Kwansan' / Kwansan Cherry
Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
Cercis canadensis / Eastern Redbud
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Magnolia stellata / Star Magnolia
Prunus x incam 'Okame' / Okame Cherry
Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
(NOT COUNTED IN TREE CANOPY CALCULATIONS)
See Category II List Above

PLANT MATERIAL

BIORETENTION TREE PIT

LAWN

SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0

STONE BENCH - DETAIL 3/L3.0

BIKE RACK - DETAIL 4/L3.0

CAFE TABLE AND CHAIRS - DETAIL 5/L3.0

TREE PLANTER - DETAIL 6/L3.0

LITTER RECEPTACLE - DETAIL 7/L3.0

STAND UP COUNTER - DETAIL 8/L3.0

PEDESTRIAN LIGHT - DETAIL 2/L3.0

STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
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PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE

ACCENT 1 UNIT PAVERS

POSSIBLE PERMEABLE PAVERS

FIELD PAVING 2 UNIT PAVERS

ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

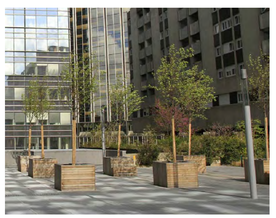
RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

PARKS "B" , "C" AND "G"

POCKET PARK 'B' - VARIED TOPOGRAPHY

POCKET PARK 'B' - SYNTHETIC TURF



URBAN PLAZA 'C' - MOVABLE PLANTERS

URBAN PLAZA 'C' - LANDSCAPE INTEREST

URBAN PLAZA 'G' - MODERN TRELLIS

PARKS "B" , "C" AND "G" CHARACTER IMAGES

NOTE:
GRADING AND WALL HT. INFORMATION AS SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

POSSIBLE FUTURE GARAGE EXIT REALIGNMENT IS DEPENDENT UPON DULLES TOLL ROAD EXIT RAMP IMPLEMENTATION. IN THE EVENT THAT THE GARAGE EXIT REALIGNMENT IS NEEDED, THE DOG PARK WILL BE SEPARATED INTO TWO SPACES: ONE DOG PARK FOR SMALL DOGS TO THE WEST (ON LEASH) AND ONE DOG PARK FOR LARGER DOGS TO THE EAST (OFF LEASH). ALL ELEMENTS WITHIN THE EXISTING DOG PARK TO REMAIN IN EITHER SCENARIO.

LANDSCAPE PLAN NOTE:
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10' 0' 10' 20' 40'

NORTH

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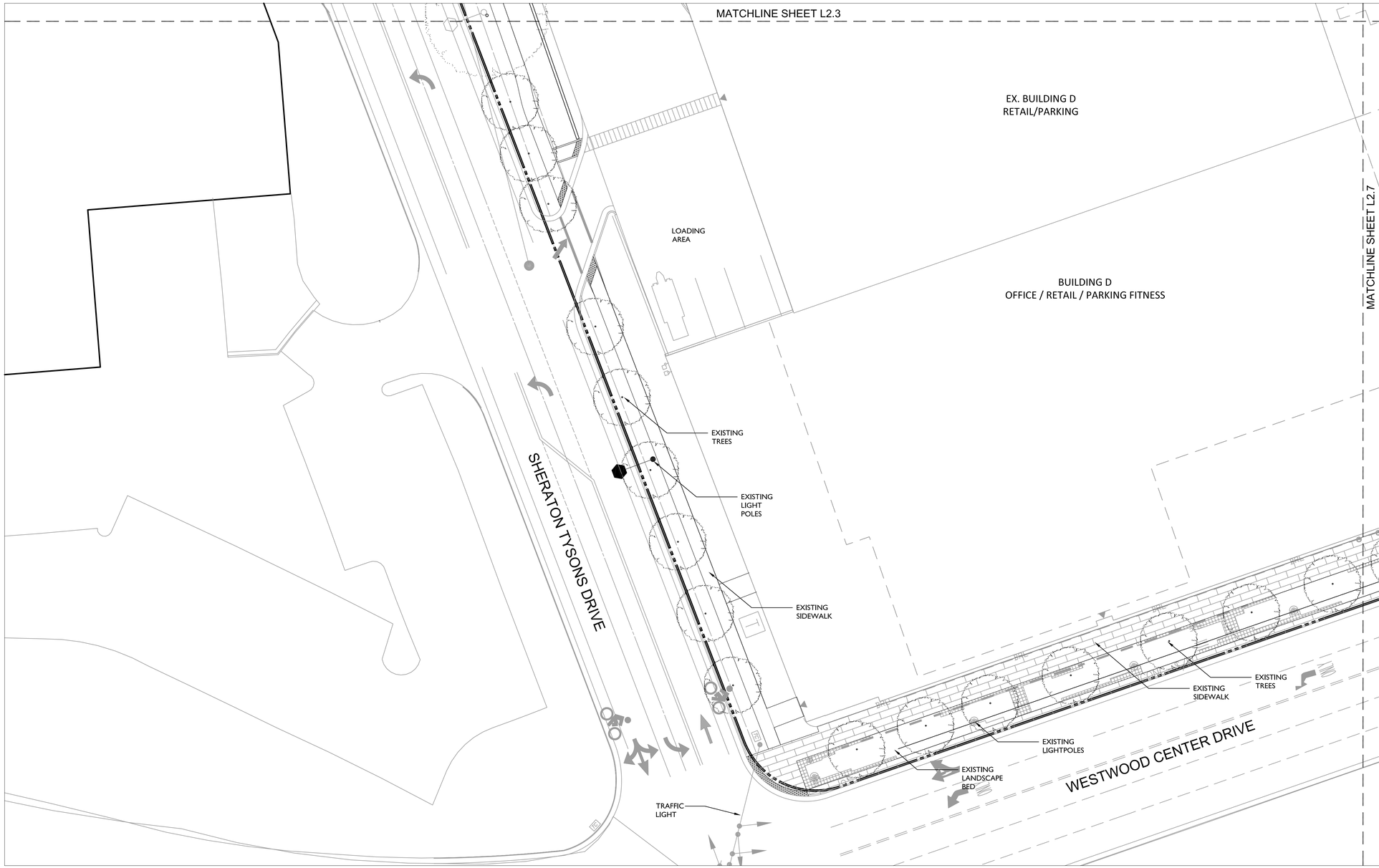
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

LANDSCAPE PLAN - PARKS "B","C" AND "G"

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC/GC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.3



SHERATON TYSONS DRIVE AND WESTWOOD CENTER DRIVE

NOTE:
GRADING AND WALL HT. INFORMATION AS SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

Application No: **FDP 2011-HM-032** Staff: **S.Lin**

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: **Aug 23, 2013**
SEE CONDITIONS DATED:
Date of Final Approval: **Jul 31, 2013** (_BOS) (XPC) (_BZA)
Comments: **Develop. Conds. Dated 7/31/2013**
Associated W/ RZ 2011-HM-032
Sheet **43** of **60**

LANDSCAPE PLAN NOTE:
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10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty` /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge` /American Elm
Ulmus parvifolia `Allee` /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory' / October Glory Maple
Platanus x acerifolia `Liberty` / London Plane Tree
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LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
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Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
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Stewartia ovata / Mountain Stewartia
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EXISTING TREE

NOTE:
TREE LISTING IS NOT INTENTED TO BE ALL INCLUSIVE. SPECIFIC SELECTIONS WILL BE SUBMITTED WITH FINAL SITE PLAN

PLANT MATERIAL

BIORETENTION TREE PIT
LAWN
SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0
STONE BENCH - DETAIL 3/L3.0
BIKE RACK - DETAIL 4/L3.0
CAFE TABLE AND CHAIRS - DETAIL 5/L3.0
TREE PLANTER - DETAIL 6/L3.0
LITTER RECEPTACLE - DETAIL 7/L3.0
STAND UP COUNTER - DETAIL 8/L3.0
PEDESTRIAN LIGHT - DETAIL 2/L3.0
STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
LIGHT SPACING IS SCHEMATIC ONLY AND SUBJECT TO REVISION BASED UPON FINAL PHOTOMETRICS PLAN.
POLE SPACING IS 55' O.C. +/-
EXISTING LIGHT POLES ARE NOTED ON PLANS

PAVING MATERIALS

FIELD PAVING 1
P.I.P CONCRETE

ACCENT 1
UNIT PAVERS

POSSIBLE
PERMEABLE
PAVERS

FIELD PAVING 2
UNIT PAVERS

ACCENT 2
DECOMPOSED
GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE
RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE
VEHICLE DIRECTION/ENTRANCE

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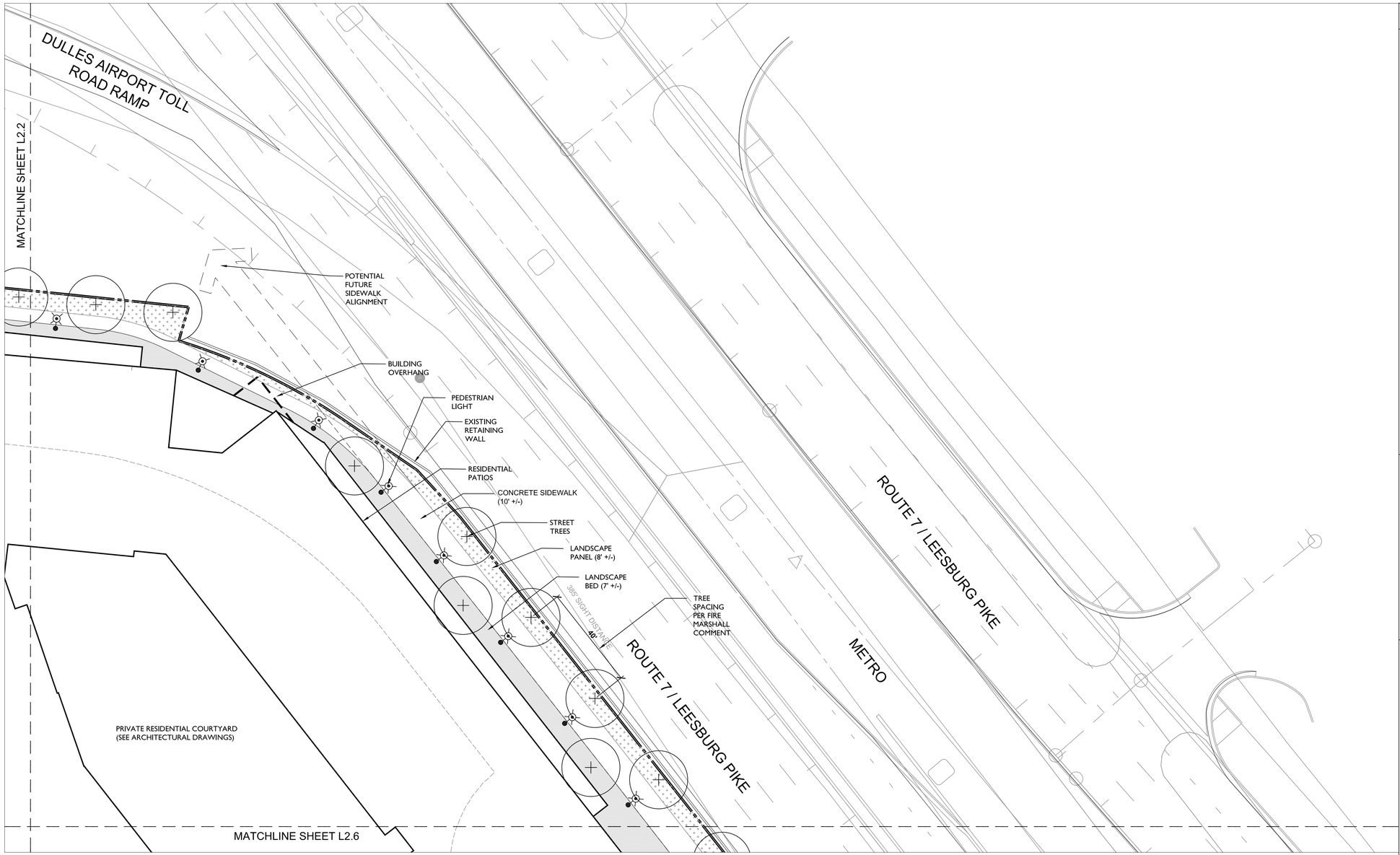
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA
LANDSCAPE PLAN - WESTWOOD CTR. DR.

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QUALITY CHECK BY:
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.4



BUILDING "C" NORTH AND ROUTE 7

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty' /London Plane Tree
Quercus borealis /Northen Red Oak
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Ulmus parvifolia `Allee' /Allee Lacebark Elm

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LANDSCAPE TREE (CATEGORY III)
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Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
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Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

NOTE:
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PLANT MATERIAL

BIORETENTION TREE PIT
LAWN
SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0
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PEDESTRIAN LIGHT - DETAIL 2/L3.0
STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

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PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE
ACCENT 1 UNIT PAVERS
POSSIBLE PERMEABLE PAVERS
FIELD PAVING 2 UNIT PAVERS
ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE
RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE
VEHICLE DIRECTION/ENTRANCE

NOTE:
GRADING AND WALL HT. INFORMATION AS SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X DP) (_PRC) (_DP) (_SP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 44 of 60

LANDSCAPE PLAN NOTE:
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10' 0' 10' 20' 40'

NORTH

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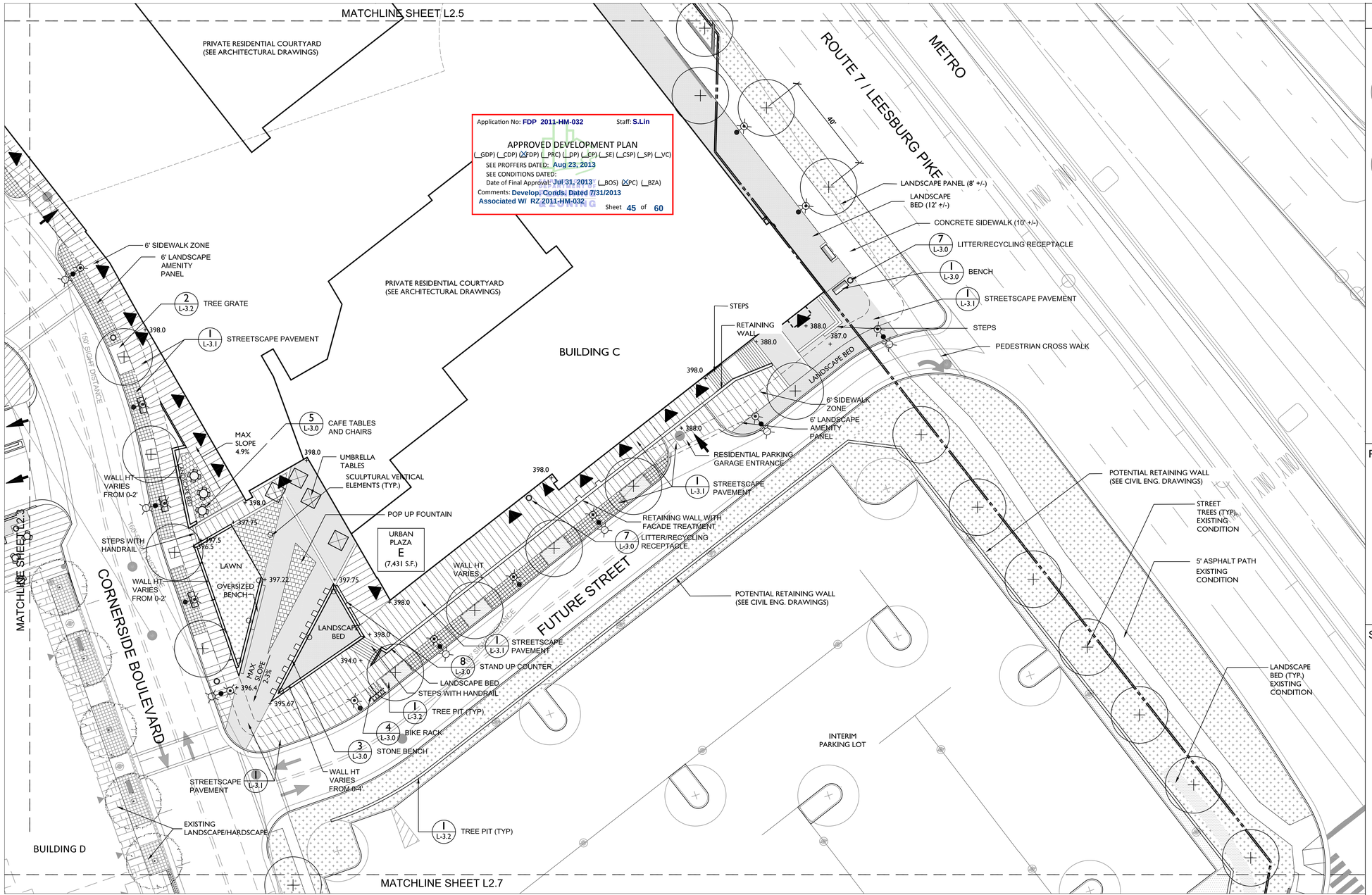
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA
LANDSCAPE PLAN - BUILDING "C" NORTH AND ROUTE 7

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QA/QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

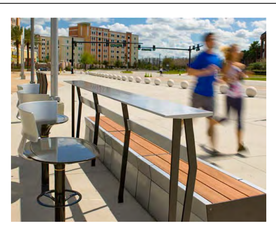
SHEET NUMBER:
L-2.5



BUILDING "C" SOUTH AND PARK "E"

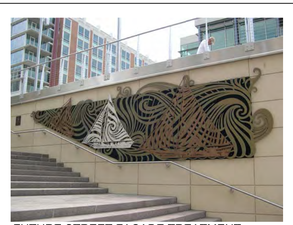
URBAN PLAZA 'E' - VERTICAL INTEREST

URBAN PLAZA 'E' - UNIQUE FURNISHINGS



URBAN PLAZA 'E' - POP UP FOUNTAIN

FUTURE STREET FACADE TREATMENT - GREEN WALL OPTION



FUTURE STREET FACADE TREATMENT - ART WALL OPTION

BUILDING "C" SOUTH AND PARK "E" CHARACTER IMAGES

NOTE:
GRADING AND WALL HT. INFORMATION AS SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

LANDSCAPE PLAN NOTE:
THE INFORMATION SHOWN ON THIS SHEET IS CONCEPTUAL AND SUBJECT TO CHANGE DURING THE DESIGN PHASE; HOWEVER IT IS INDICATIVE OF THE CONCEPT AND GENERAL CHARACTER OF THE FINAL DESIGN. AMENITIES MAY VARY.

10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

STREET TREE IN PLANTER (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory'/October Glory Maple
Platanus x acerifolia `Liberty' /London Plane Tree
Quercus borealis /Northen Red Oak
Ulmus americana `Valley Forge' /American Elm
Ulmus parvifolia `Allee' /Allee Lacebark Elm

STREET TREE IN BIORETENTION (CAT. IV)
PUBLIC REALM (LS AMENITY PANEL)
Acer rubrum 'October Glory' / October Glory Maple
Platanus x acerifolia `Liberty' / London Plane Tree
Quercus phellos / Willow Oak
Ulmus parvifolia `Allee' / Allee Lacebark Oak

LANDSCAPE TREE (CATEGORY III)
PUBLIC REALM
Betula nigra / River Birch
Cercidiphyllum japonicum / Katsura Tree
Cladrastis kentuckea / Yellowood
Gleditsia triacanthos inermis / Thornless Honeylocust
Prunus serrulata 'Kwansan' / Kwansan Cherry
Prunus sargentii / Sargent Cherry
Prunus x yedoensis / Yoshino Cherry

LANDSCAPE TREE (CATEGORY II)
PUBLIC REALM
Cercis canadensis / Eastern Redbud
Cornus florida / Flowering Dogwood
Magnolia stellata / Star Magnolia
Prunus x incam 'Okame' / Okame Cherry
Stewartia koreana / Korean Stewartia
Stewartia ovata / Mountain Stewartia
Stewartia psuedocamellia / Japanese Stewartia

EXISTING TREE

NOTE:
TREE LISTING IS NOT INTENTED TO BE ALL INCLUSIVE. SPECIFIC SELECTIONS WILL BE SUBMITTED WITH FINAL SITE PLAN

PLANT MATERIAL

BIORETENTION TREE PIT

LAWN

SHRUB AND GROUNDCOVER

SITE FURNISHINGS AND MATERIALS

BENCH - DETAIL 1/L3.0

STONE BENCH - DETAIL 3/L3.0

BIKE RACK - DETAIL 4/L3.0

CAFE TABLE AND CHAIRS - DETAIL 5/L3.0

TREE PLANTER - DETAIL 6/L3.0

LITTER RECEPTACLE - DETAIL 7/L3.0

STAND UP COUNTER - DETAIL 8/L3.0

PEDESTRIAN LIGHT - DETAIL 2/L3.0

STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

NOTE:
LIGHT SPACING IS SCHEMATIC ONLY AND SUBJECT TO REVISION BASED UPON FINAL PHOTOMETRICS PLAN.
POLE SPACING IS 55' O.C. +/-
EXISTING LIGHT POLES ARE NOTED ON PLANS

PAVING MATERIALS

FIELD PAVING 1 P.I.P CONCRETE

ACCENT 1 UNIT PAVERS

POSSIBLE PERMEABLE PAVERS

FIELD PAVING 2 UNIT PAVERS

ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA
LANDSCAPE PLAN - BUILDING "C" SOUTH AND PARK "E"

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
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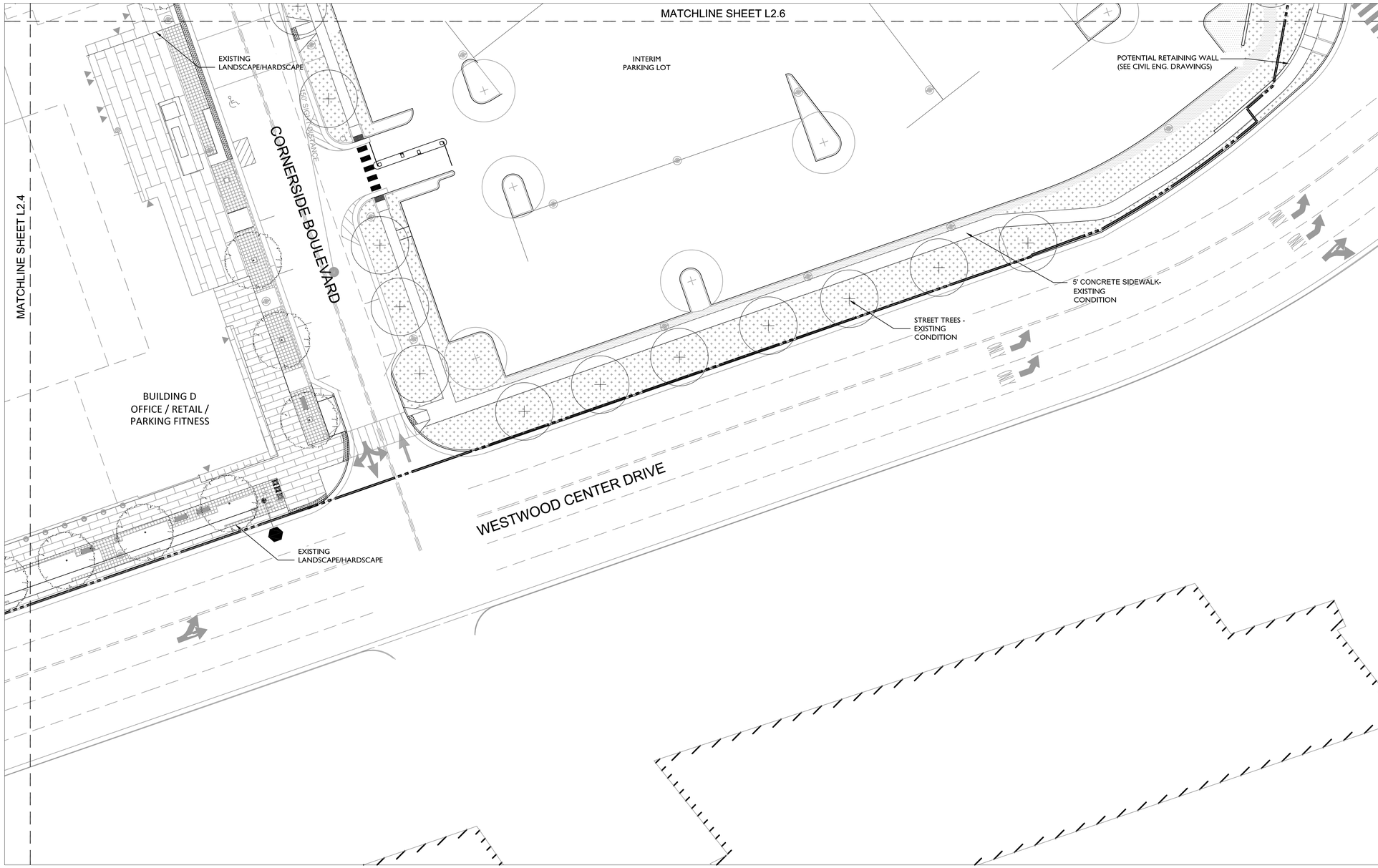
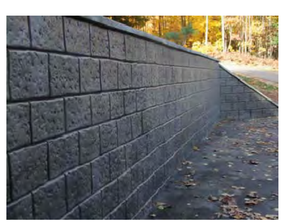


INTERIM PARKING LOT AT WESTWOOD CENTER DRIVE



STAMPED CONCRETE

STAMPED CONCRETE

CONCRETE BLOCK

CHARACTER IMAGES - POTENTIAL RETAINING WALL

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(__GDP) (__CDP) (X FDP) (__PRC) (__DP) (__CP) (__SE) (__CSP) (__SP) (__VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (__BOS) (X PC) (__BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 46 of 60

NOTE:
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10' 0' 10' 20' 40'

NORTH

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

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EXISTING TREE

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PLANT MATERIAL

BIORETENTION TREE PIT

LAWN

SHRUB AND GROUNDCOVER

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BENCH - DETAIL 1/L3.0

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STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

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ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

LANDSCAPE PLAN - INTERIM PARKING AT WESTWOOD CTR. DR.

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
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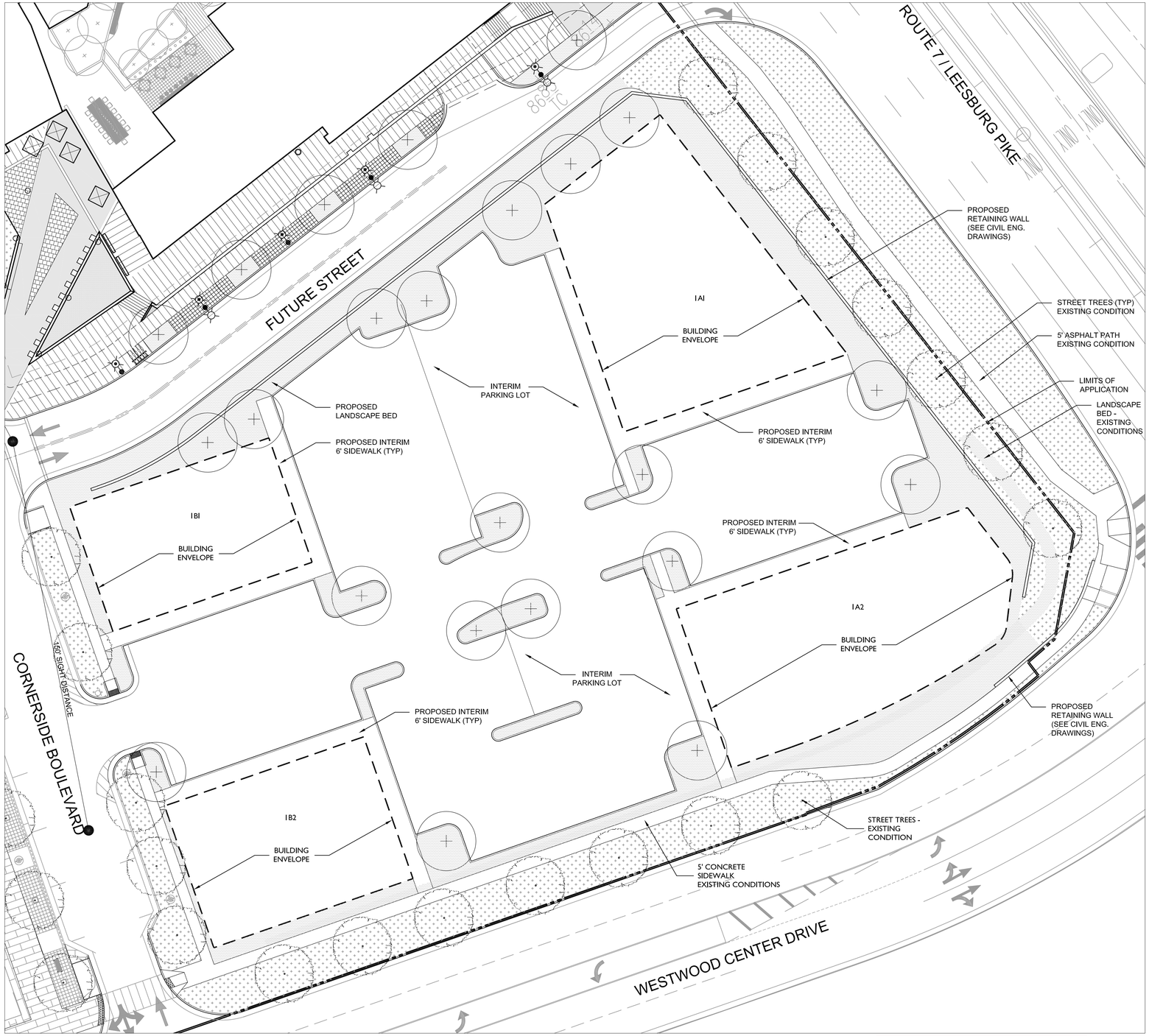

INTERIM RETAIL AT WESTWOOD CENTER DRIVE

LANDSCAPE/HARDSCAPE LEGEND

TREE SCHEDULE

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SHRUB AND GROUNDCOVER

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STREETSCAPE LIGHT WITH PEDESTRIAN LIGHT DETAIL 2/L3.0

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POSSIBLE PERMEABLE PAVERS

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ACCENT 2 DECOMPOSED GRANITE

NOTE: SEE DETAIL 1/L3.1FOR DETAIL PAVING INFORMATION

PEDESTRIAN AND VEHICLE ENTRANCES

RESIDENTIAL ENTRANCE

RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE

VEHICLE DIRECTION/ENTRANCE

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_PI) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 47 of 60

LANDSCAPE PLAN NOTE:
THE INFORMATION SHOWN ON THIS SHEET IS CONCEPTUAL AND SUBJECT TO CHANGE DURING THE DESIGN PHASE; HOWEVER IT IS INDICATIVE OF THE CONCEPT AND GENERAL CHARACTER OF THE FINAL DESIGN. AMENITIES MAY VARY.

10' 0' 10' 20' 40'

NORTH

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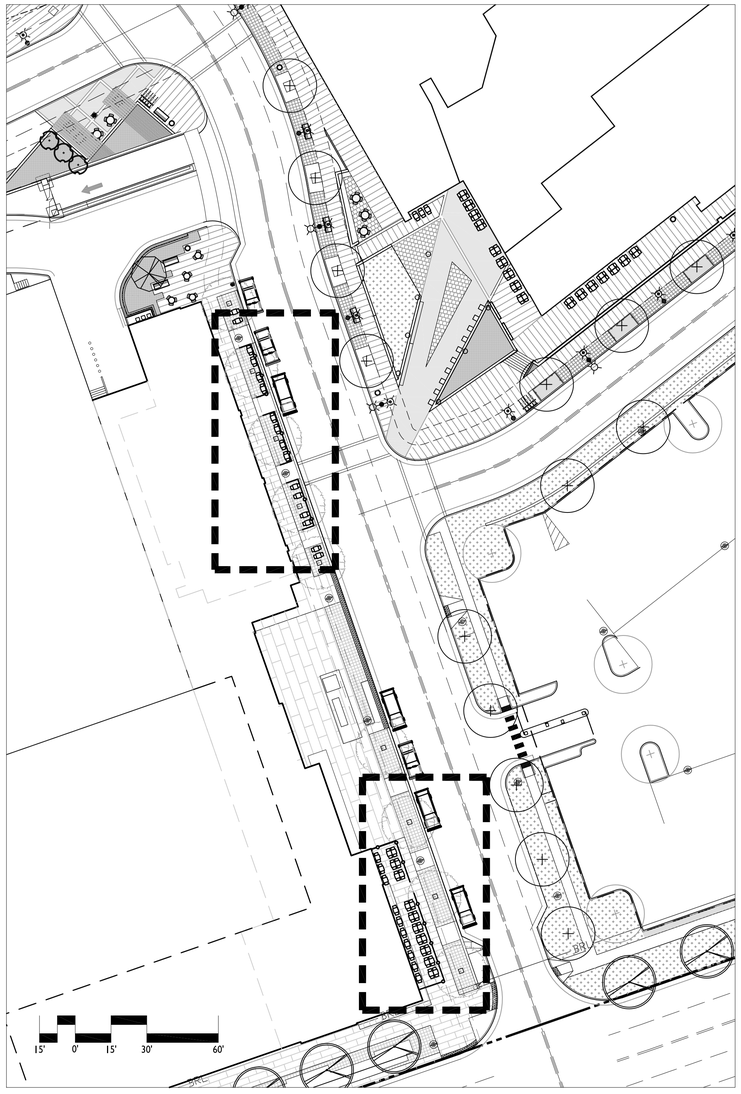
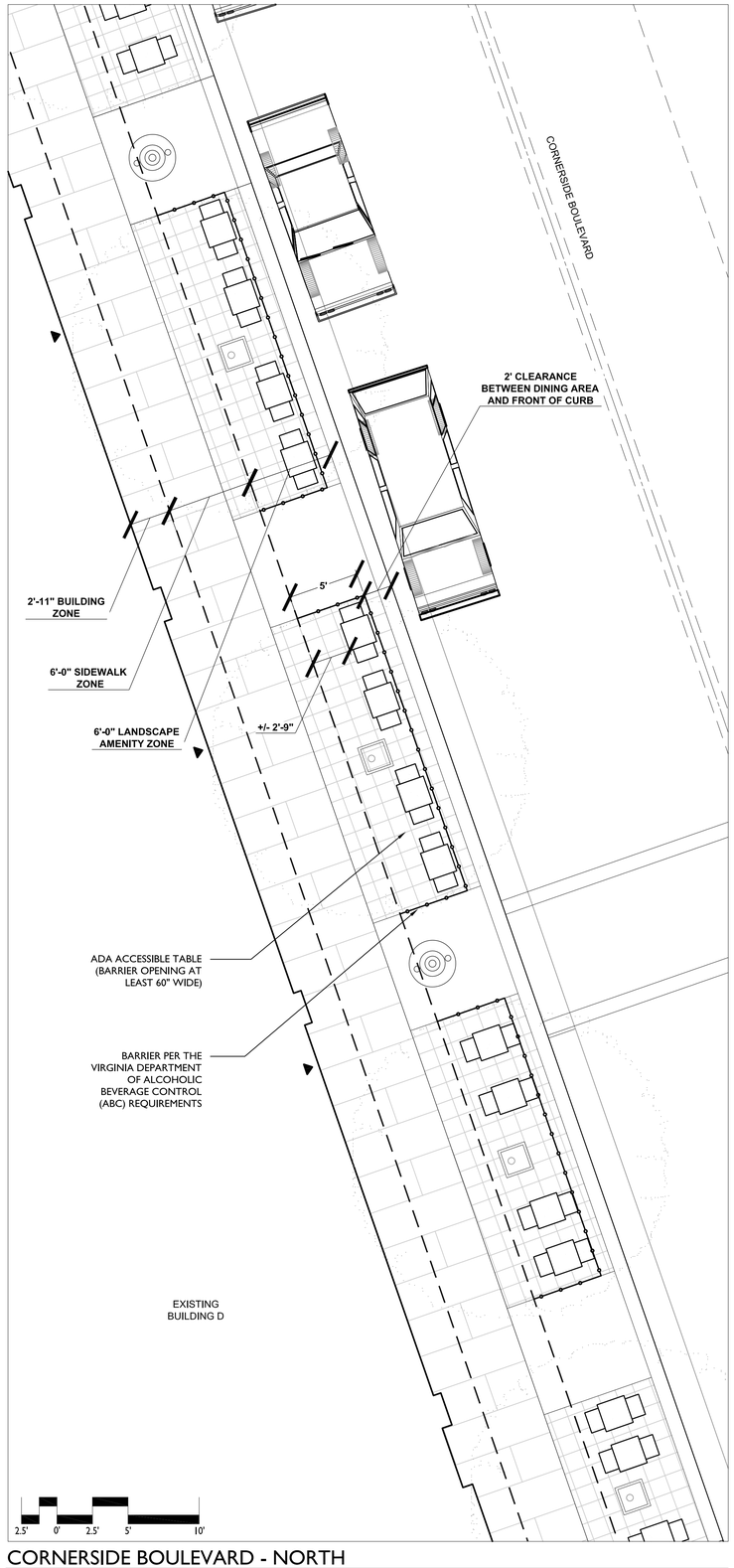
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA
LANDSCAPE PLAN - INTERIM RETAIL AT WESTWOOD CTR. DR.

REVISIONS:
REV 1 FDP RESUBMISSION 06-12-13

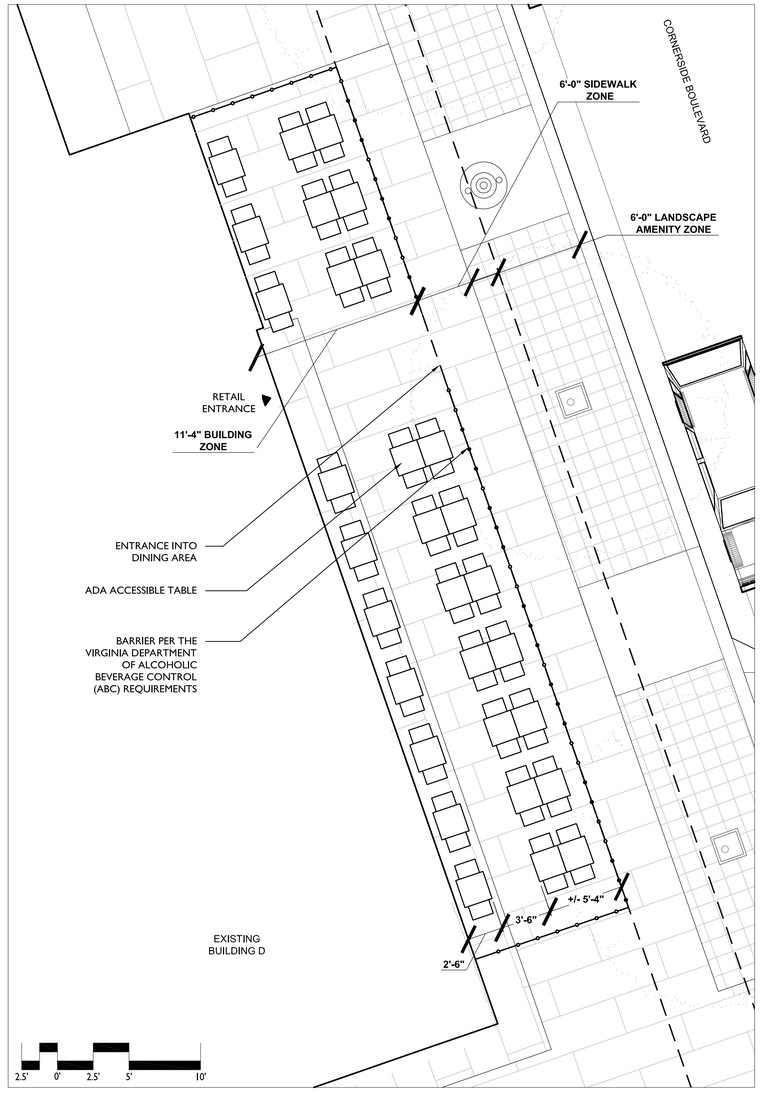
DATE: MAY 10, 2013
DESIGNED BY:
DRAWN BY: KP
CHECKED BY: MC
QA BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.7A





CORNERSIDE BOULEVARD - NORTH



CORNERSIDE BOULEVARD - SOUTH

CURB-SIDE DINING CHARACTER IMAGES

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_PP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 48 of 60

5' 0' 5' 10' 20'

NORTH

PEDESTRIAN AND VEHICLE ENTRANCES

- RESIDENTIAL ENTRANCE
- RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE
- VEHICLE DIRECTION/ENTRANCE

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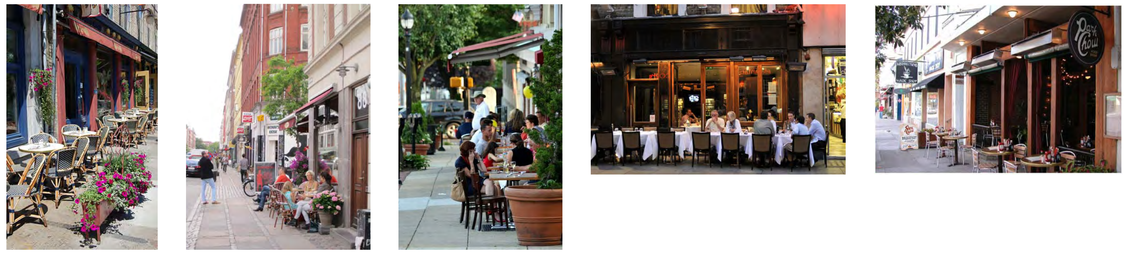
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

OUTDOOR DINING - CORNERSIDE BOULEVARD

REVISIONS:

DATE: JUNE 12, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.8



BUILDING-SIDE DINING

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(__GDP) (__CDP) (XFDP) (__PRC) (__DP) (__CP) (__SE) (__CSP) (__SP) (__VC)

SEE PROFFERS DATED: Aug 23, 2013

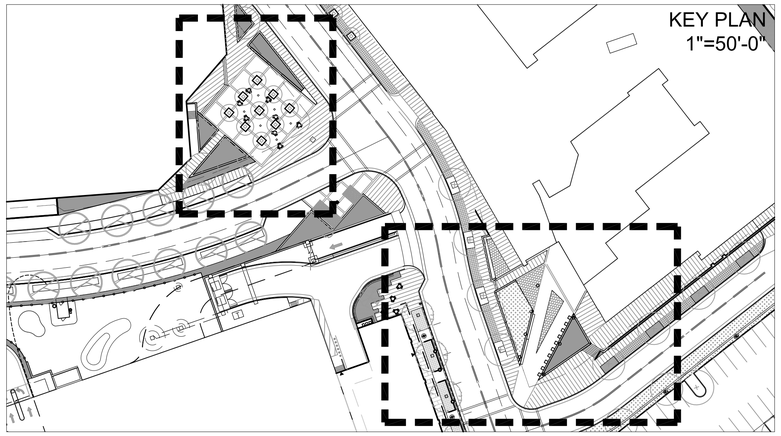
SEE CONDITIONS DATED:

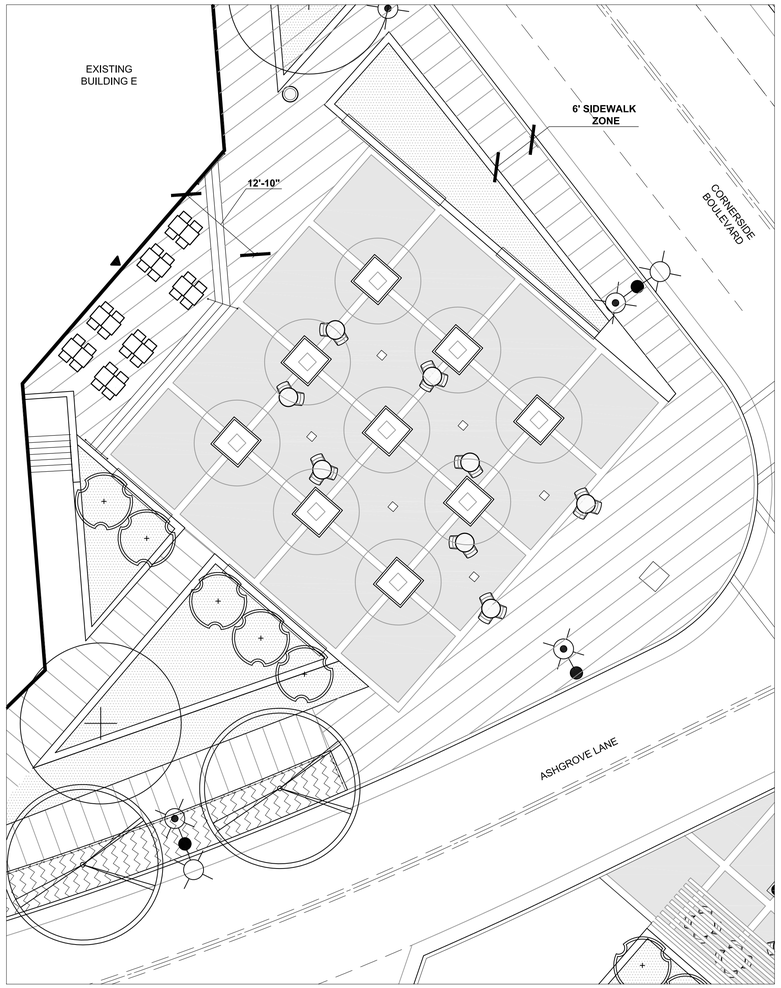
Date of Final Approval: Jul 31, 2013 (__BOS) (XPC) (__BZA)

Comments: Develop. Conds. Dated 7/31/2013

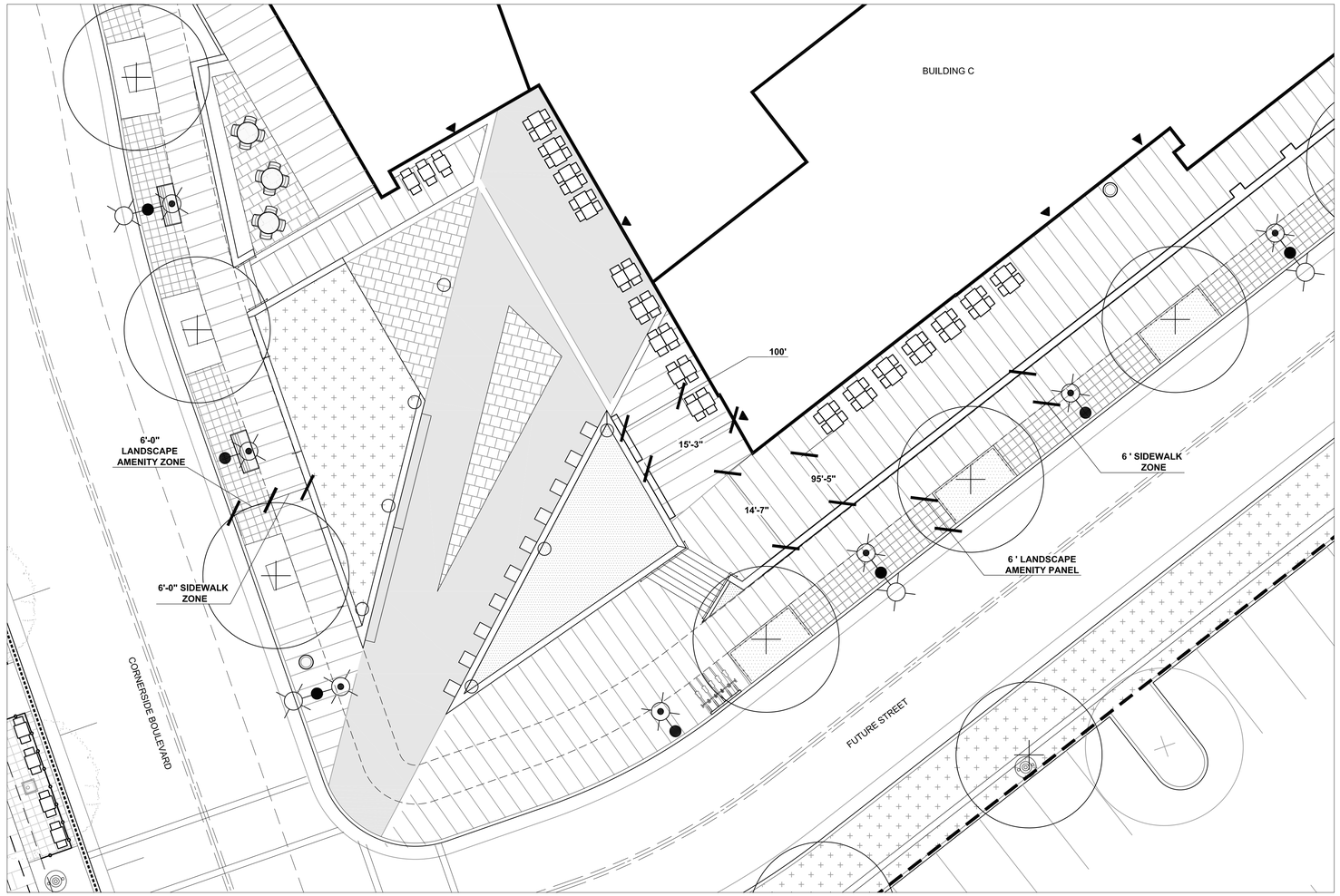
Associated W/ RZ 2011-HM-032

Sheet 49 of 60





URBAN PLAZA 'C' AT EXISTING BUILDING E



URBAN PLAZA 'E' AT BUILDING C

5' 0' 5' 10' 20'

NORTH

PEDESTRIAN AND VEHICLE ENTRANCES

- RESIDENTIAL ENTRANCE
- RETAIL/SERVICE/COMMERCIAL/OFFICE ENTRANCE
- VEHICLE DIRECTION/ENTRANCE

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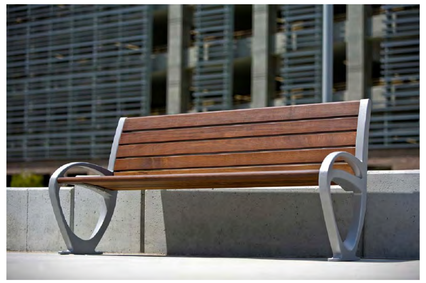
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

OUTDOOR DINING - URBAN PLAZAZ 'C' AND 'E'

REVISIONS:

DATE: JUNE 12, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-2.9



MODEL: TRIO
FINISH: WOOD

AVAILABLE THROUGH:
FORMS + SURFACES
30 PINE STREET
PITTSBURGH, PA 15223
PH.:800.451.0410
FAX: 412.781.7840
www.forms-surfaces.com

NOTES:
1. BENCHES SHALL MEET THE TYSONS CORNER URBAN DESIGN GUIDELINES STANDARD FOR TYSONS WEST & WEST SIDE STREETSCAPE FURNISHINGS, OR APPROVED EQUAL (SEE SECTION 3.4J OF DESIGN GUIDELINES)
2. PROPOSED BENCHES SHALL BE ALUMINUM TEXTURE POWDER COATED FRAME, WOOD SLATS
3. SELECTED MODEL TO INCLUDE INTERMEDIATE ARMREST

1 L-3.0 BENCH
PICTORIAL — 05A-XXX — NTS

PEDESTRIAN SCALE STREETSCAPE LIGHTING OPT. 1: SE'LUX ARC MINI SPANNER ARM SERIES

PEDESTRIAN SCALE STREETSCAPE LIGHTING OPT. 2: ARCHITECTURAL AREA LIGHTING FLEX SERIES

ILLUSTRATIVECONBINATION STREET LIGHT AND NORMAL PEDESTRIAN LIGHT. SEE NOTE 2.

PEDESTRIAN SCALE STREETSCAPE LIGHTING OPTIONS:

OPTION 1: SE'LUX ARC MINI SPANNER ARM SERIES
- ARC MINI SPANNER ARM SERIES
- SILVER FINISH
- HID OR LED LAMP
- TEMPERED FLAT GLASS LENS

OPTION 2: ARCHITECTURAL AREA LIGHTING
- FLEX SERIES
- MATTE ALUMINUM FINISH
- HID OPTION

OPTION 3: APPROVED EQUAL

NOTES:
1. PEDESTRIAN SCALE STREETSCAPE LIGHTING SHALL MEET THE TYSONS CORNER URBAN DESIGN GUIDELINES' PREFERRED STREETSCAPE LIGHTS OPTIONS OR APPROVED EQUAL (SEE SECTION 3.3B OF DESIGN GUIDELINES)
2. COMBINATION STREET LIGHT AND PEDESTRIAN LIGHT TO BE LOCATED BETWEEN NORMAL PEDESTRIAN SCALE LIGHTING. SEE PLAN FOR SPECIFIC LOCATIONS.

2 L-3.0 LIGHTING
PICTORIAL — 05B-XXX — NTS

MODEL: SOCRATES
FINISH: CAST STONE

AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. 24" x 24", BACKLESS, POLISHED AND WATERPROOFED
2. COLOR: BEIGE

3 L-3.0 STONE BENCH
PICTORIAL — 05A-XXX — NTS

MODEL: BOLA
FINISH: STAINLESS STEEL

AVAILABLE THROUGH:
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431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. BIKE RACKS SHALL MEET THE TYSONS CORNER URBAN DESIGN GUIDELINES STANDARD FOR TYSONS WEST & WEST SIDE STREETSCAPE FURNISHINGS, OR APPROVED EQUAL (SEE SECTION 3.4J OF DESIGN GUIDELINES)

4 L-3.0 BIKE RACK
PICTORIAL — 05A-XXX — NTS

MODEL: PARC CENTRE
FINISH: POWEDERCOATED STEEL

AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. CHAIR - NO ARMS
2. 24" ROUND TABLE

5 L-3.0 CAFE TABLE AND CHAIRS
PICTORIAL — 05A-XXX — NTS

MODEL: PLAZA
FINISH: WOOD PANELS

AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. 48" x48"
2. STAINLESS STEEL LEVELING FEET
3. TREES TO BE LOCATED TO AVOID CONFLICTS WITH ON-STREET PARKING.

6 L-3.0 TREE PLANTER
PICTORIAL — 05A-XXX — NTS

MODEL: POE
FINISH: ALUMINUM

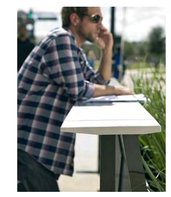
AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. RECEPTACLES SHALL MEET THE TYSONS CORNER URBAN DESIGN GUIDELINES STANDARD FOR TYSONS WEST & WEST SIDE STREETSCAPE FURNISHINGS, OR APPROVED EQUAL (SEE SECTION 3.4J OF DESIGN GUIDELINES)

7 L-3.0 LITTER / RECYCLING RECEPTACLE
PICTORIAL — 05A-XXX — NTS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (XFDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (XPC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 50 of 60

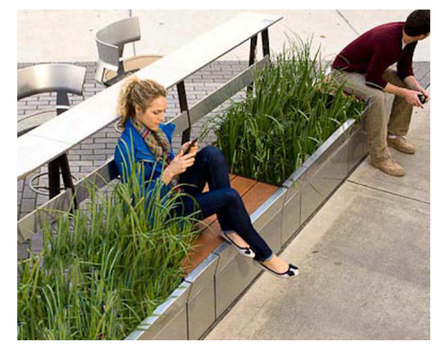


MODEL: JESSIE
FINISH: POWDER COATED METAL

AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. 12" BAR TOP

8 L-3.0 STAND UP COUNTER
PICTORIAL — 05A-XXX — NTS



MODEL: GUS
FINISH: POWDERCOATED METAL

AVAILABLE THROUGH:
LANDSCAPE FORMS, INC.
431 LAWNDALE AVE.
KALAMAZOO, MI 49048
PH.: 800.430.6209
FAX: 269.381.3455
www.landscapeforms.com

NOTES:
1. 18" HEIGHT
2. WOOD SEATING INSERTS

9 L-3.0 PLANTER BENCH
PICTORIAL — 05A-XXX — NTS

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

HARDSCAPE DETAILS

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: JG
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-3.0

FIELD PAVING 1 - POURED IN PLACE CONCRETE

LOCATION USED: SIDEWALK ZONE (MAY APPEAR IN SELECT LOCATIONS WITHIN LANDSCAPE AMENITY PANEL AND BUILDING ZONE)
PRODUCT DESCRIPTION: POURED IN PLACE CONCRETE
COLOR: COOL GRAYS
SUGGESTED SCORING PATTERN: RECTANGULAR (PERPENDICULAR TO STREET)

FIELD PAVING 2 - UNIT PAVERS

LOCATION USED: SIDEWALK ZONE / BUILDING ZONE (MAY APPEAR IN SELECT LOCATIONS WITHIN LANDSCAPE AMENITY PANEL)
PRODUCT DESCRIPTION: STONE OR CONCRETE UNIT PAVERS (TO BE ADA COMPLIANT, AND HAVE A NON-SLIP FINISH)
COLOR: COOL GRAYS

ACCENT PAVING 1 - UNIT PAVERS

LOCATION USED: SIDEWALK ZONE / BUILDING ZONE (MAY APPEAR IN SELECT LOCATIONS WITHIN LANDSCAPE AMENITY PANEL)
PRODUCT DESCRIPTION: STONE OR CONCRETE UNIT PAVERS (TO BE ADA COMPLIANT, AND HAVE A NON-SLIP FINISH)
COLOR: COOL GRAYS

ACCENT PAVING 2 - DECOMPOSED GRANITE

LOCATION USED: BOCCE COURT

POSSIBLE PERMEABLE PAVERS

LOCATION USED: LANDSCAPE AMENITY PANEL (MAY APPEAR IN SELECT LOCATIONS WITHIN SIDEWALK ZONE / BUILDING ZONE)
PRODUCT DESCRIPTION: STONE OR CONCRETE UNIT PAVERS (TO BE ADA COMPLIANT, AND HAVE A NON-SLIP FINISH)
COLOR: COOL GRAYS

BIORETENTION TREE PIT ADJACENT TO ON-STREET

BIORETENTION TREE PIT *NOT* ADJACENT TO ON-STREET

NOTES:
1. ORNAMENTAL TREE FENCE SHALL BE SELECTED TO COMPLIMENT ARCHITECTURE STYLE AND OTHER STREETSCAPE/AMENITY FURNISHINGS.
2. BIORETENTION TREE PITS ADJACENT TO ON-STREET PARKING SHALL HAVE FENCING ALONG ALL SIDES OF TREE PIT.

3 / L-3.1 ORNAMENTAL TREE FENCE

PICTORIAL — 21-XXX — NTS

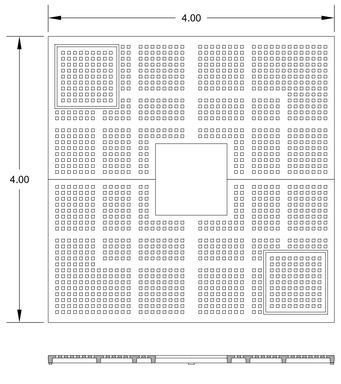
1 / L-3.1 STREETSCAPE PAVEMENT

PLAN / PICTORIAL — 12G-XXX — AS NOTED

EXTENSIVE GREEN ROOF

4 / L-3.1 GREEN ROOF (EXTENSIVE)

PICTORIAL — 08A-XXX — NTS



MODEL: #M4842
STYLE: MARKET STREET

AVAILABLE THROUGH:
IRONSMITH
41-701 CORPORATE WAY, #3
PALM DESERT, CA 92260
PH.: 800.338.4766
www.ironsmith.cc/

NOTES:
1. SLOT WIDTH IS 1/2" MAXIMUM, MEETS ADA COMPLIANCE.
2. GRATE CAST FROM IRON OR ALUMINUM TREE OPENING SIZE. 12", 18" OR 30"

2 / L-3.1 TREE GRATE

PICTORIAL — 12G-XXX — NTS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
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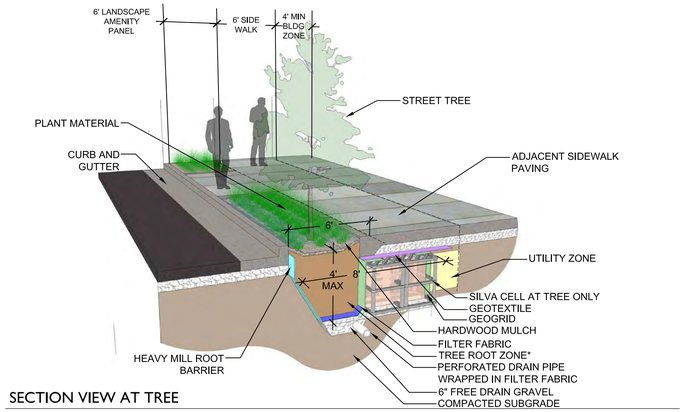
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

HARDSCAPE DETAILS

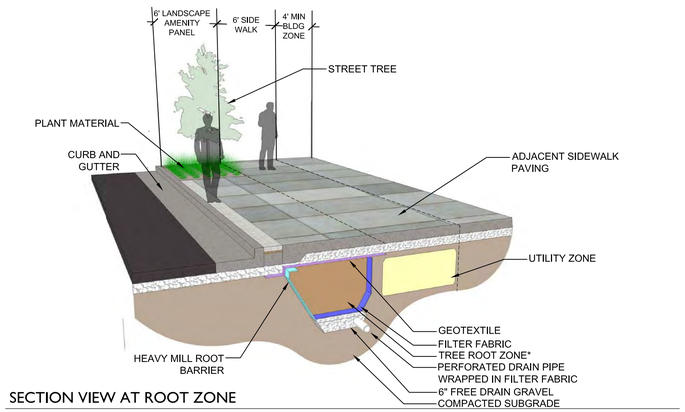
REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: JG
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

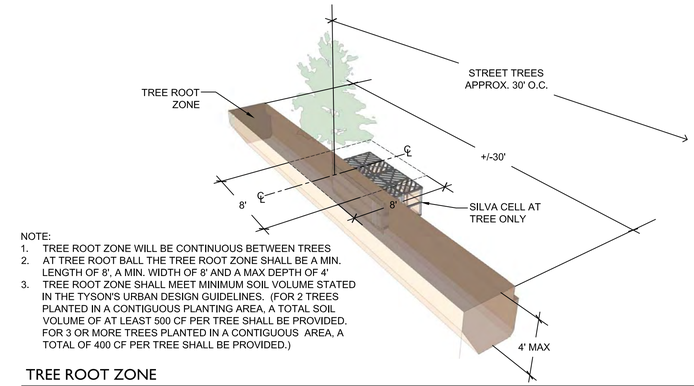
SHEET NUMBER:
L-3.1



SECTION VIEW AT TREE



SECTION VIEW AT ROOT ZONE



NOTE:
1. TREE ROOT ZONE WILL BE CONTINUOUS BETWEEN TREES
2. AT TREE ROOT BALL THE TREE ROOT ZONE SHALL BE A MIN. LENGTH OF 8', A MIN. WIDTH OF 8' AND A MAX DEPTH OF 4'
3. TREE ROOT ZONE SHALL MEET MINIMUM SOIL VOLUME STATED IN THE TYSON'S URBAN DESIGN GUIDELINES. (FOR 2 TREES PLANTED IN A CONTIGUOUS PLANTING AREA, A TOTAL SOIL VOLUME OF AT LEAST 500 CF PER TREE SHALL BE PROVIDED. FOR 3 OR MORE TREES PLANTED IN A CONTIGUOUS AREA, A TOTAL OF 400 CF PER TREE SHALL BE PROVIDED.)

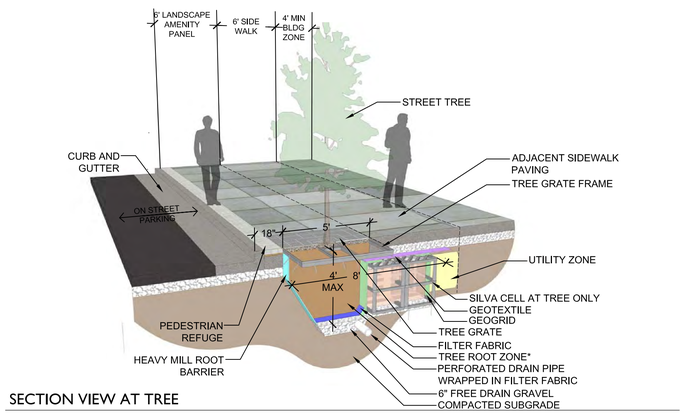
TREE ROOT ZONE

1 STREET TREE STANDARD PIT AT LOCAL STREET

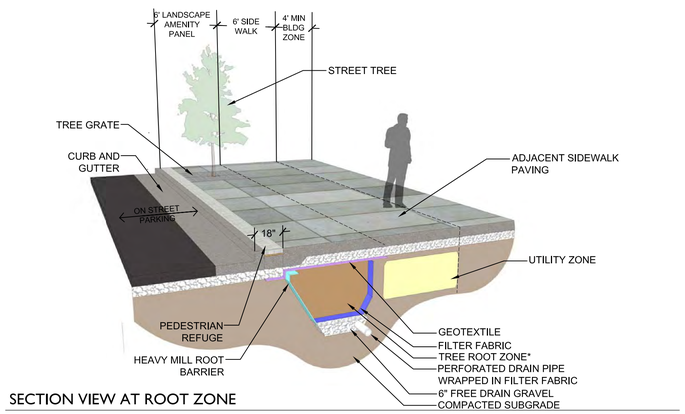
L-3.2 PERSPECTIVE SECTIONS

08A-225

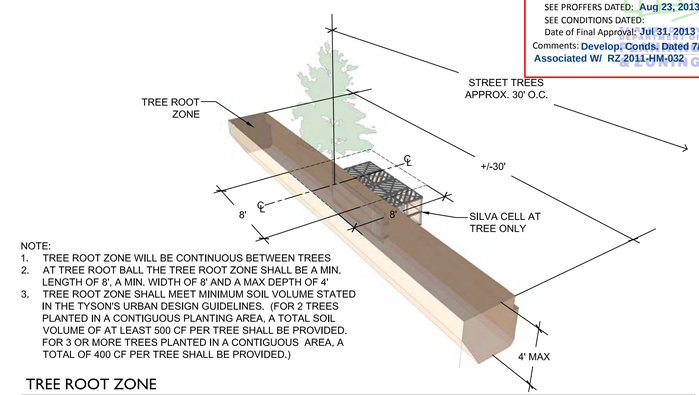
NTS



SECTION VIEW AT TREE



SECTION VIEW AT ROOT ZONE



NOTE:
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2. AT TREE ROOT BALL THE TREE ROOT ZONE SHALL BE A MIN. LENGTH OF 8', A MIN. WIDTH OF 8' AND A MAX DEPTH OF 4'
3. TREE ROOT ZONE SHALL MEET MINIMUM SOIL VOLUME STATED IN THE TYSON'S URBAN DESIGN GUIDELINES. (FOR 2 TREES PLANTED IN A CONTIGUOUS PLANTING AREA, A TOTAL SOIL VOLUME OF AT LEAST 500 CF PER TREE SHALL BE PROVIDED. FOR 3 OR MORE TREES PLANTED IN A CONTIGUOUS AREA, A TOTAL OF 400 CF PER TREE SHALL BE PROVIDED.)

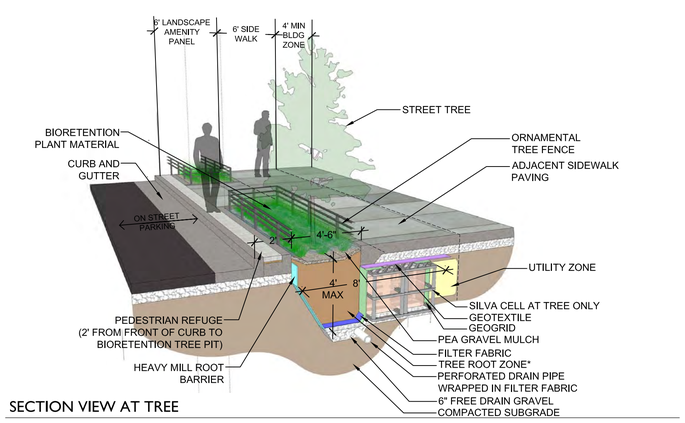
TREE ROOT ZONE

2 STREET TREE STANDARD PIT WITH TREE GRATE AT LOCAL STREET

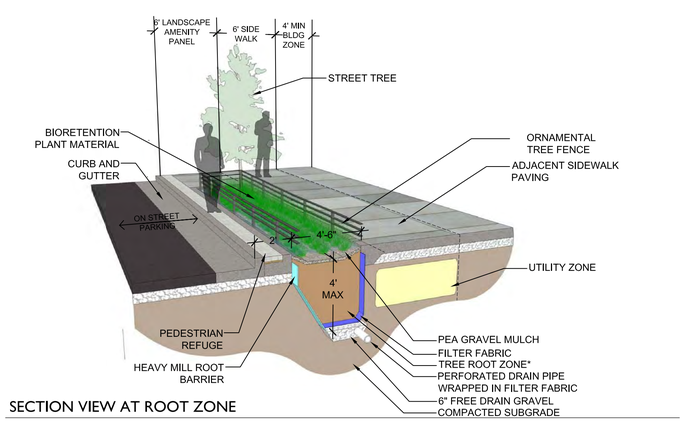
L-3.2 PERSPECTIVE SECTIONS

08A-226

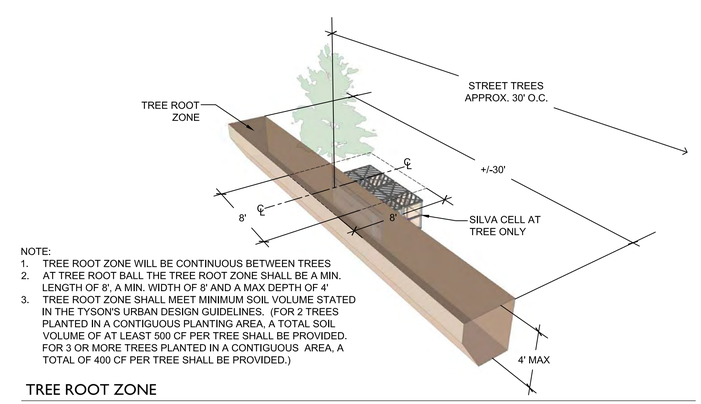
NTS



SECTION VIEW AT TREE



SECTION VIEW AT ROOT ZONE



NOTE:
1. TREE ROOT ZONE WILL BE CONTINUOUS BETWEEN TREES
2. AT TREE ROOT BALL THE TREE ROOT ZONE SHALL BE A MIN. LENGTH OF 8', A MIN. WIDTH OF 8' AND A MAX DEPTH OF 4'
3. TREE ROOT ZONE SHALL MEET MINIMUM SOIL VOLUME STATED IN THE TYSON'S URBAN DESIGN GUIDELINES. (FOR 2 TREES PLANTED IN A CONTIGUOUS PLANTING AREA, A TOTAL SOIL VOLUME OF AT LEAST 500 CF PER TREE SHALL BE PROVIDED. FOR 3 OR MORE TREES PLANTED IN A CONTIGUOUS AREA, A TOTAL OF 400 CF PER TREE SHALL BE PROVIDED.)

TREE ROOT ZONE

3 STREET TREE BIORETENTION PIT ADJACENT TO ON-STREET PARKING AT LOCAL STREET

L-3.2 PERSPECTIVE SECTIONS

08A-227

NTS

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NOT FOR CONSTRUCTION.

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)
SEE PROFFERS DATED: Aug 23, 2013
SEE CONDITIONS DATED:
Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 52 of 60

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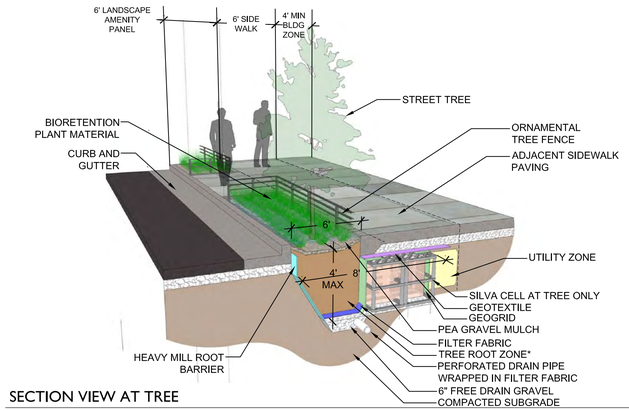
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

STREET TREE DETAILS

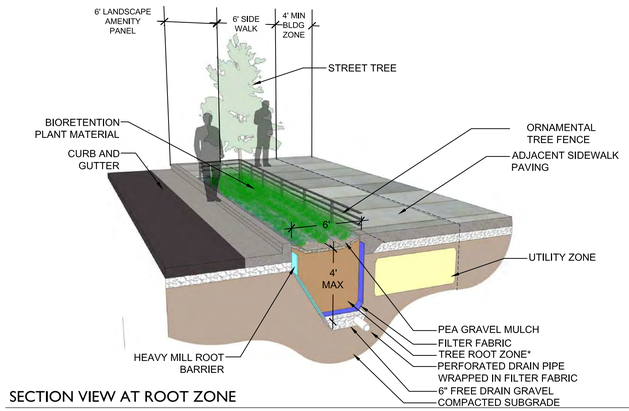
REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GCKP
DRAWN BY: JG
CHECKED BY: MC
QC BY: KVC
SCALE: AS SHOWN
PROJECT #: 2011009

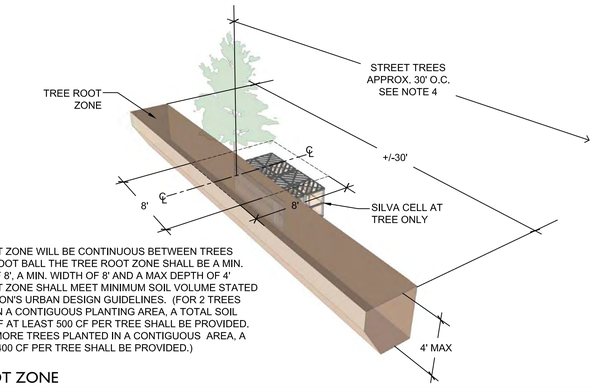
SHEET NUMBER:
L-3.2



SECTION VIEW AT TREE



SECTION VIEW AT ROOT ZONE



NOTE:
1. TREE ROOT ZONE WILL BE CONTINUOUS BETWEEN TREES
2. AT TREE ROOT BALL THE TREE ROOT ZONE SHALL BE A MIN. LENGTH OF 8', A MIN. WIDTH OF 8' AND A MAX DEPTH OF 4'
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TREE ROOT ZONE

1 / L-3.3 STREET TREE BIORETENTION PIT AT LOCAL STREET

PERSPECTIVE SECTIONS

08A-227

NTS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

(_GDP) (_CDP) (X FDP) (_PRC) (_DP) (_CP) (_SE) (_CSP) (_SP) (_VC)

SEE PROFFERS DATED: Aug 23, 2013

SEE CONDITIONS DATED:

Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

Sheet 53 of 60

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

STREET TREE DETAILS

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KF
DRAWN BY: JG
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-3.3

1 L-4.0 ELEVATION

CORNERSIDE BOULEVARD ELEVATION

2 L-4.0 ELEVATION

FUTURE STREET ELEVATION

3 L-6.0 ELEVATION

BUILDING C - NORTH ELEVATION

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

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Comments: Develop. Conds. Dated 7/31/2013

Associated W/ RZ 2011-HM-032

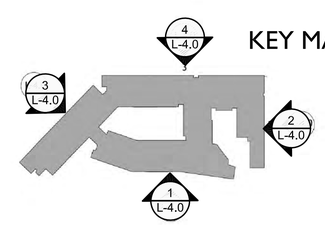
Sheet 54 of 60

4 L-4.0 ELEVATION

ROUTE 7 / LEESBURG PIKE ELEVATION

NOTE:
FINAL LOCATION OF STREETSCAPE TO BE COORDINATED WITH FINAL ARCHITECTURAL DESIGN

KEY MAP



ELEVATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. RETAIL STOREFRONT AND BUILDING ELEVATION MAY VARY DUE TO FINAL TENANT REQUIREMENTS, UNIT LAYOUT AND MECHANICAL PENETRATIONS.

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

ELEVATIONS

REVISIONS:
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REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-4.0

1 L-4.1 ELEVATION — CORNERSIDE BOULEVARD AT RESIDENTIAL ENTRY (POCKET PARK D)

2 L-4.1 ELEVATION — CORNERSIDE BOULEVARD AT RETAIL PLAZA

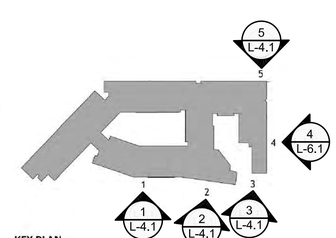
3 L-6.1 ELEVATION — RETAIL PLAZA ELEVATION (URBAN PLAZA E)

NOTE: ARTWORK PANELS SHOWN IN THIS ELEVATION ARE FOR ILLUSTRATIVE PURPOSES ONLY.

4 L-4.1 ELEVATION — FUTURE STREET GROUND FLOOR ELEVATION

5 L-4.1 ELEVATION — ROUTE 7 / LEESBURG PIKE GROUND FLOOR ELEVATION

NOTE:
FINAL LOCATION OF STREETSCAPE TO BE COORDINATED WITH FINAL ARCHITECTURAL DESIGN



KEY MAP

ELEVATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. RETAIL STOREFRONT AND BUILDING ELEVATION MAY VARY DUE TO FINAL TENANT REQUIREMENTS, UNIT LAYOUT AND MECHANICAL PENETRATIONS.

Application No: FDP 2011-HM-032 Staff: S.Lin

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TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA

ELEVATIONS

REVISIONS:
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REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QUALITY CHECK:
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-4.1

1 L-4.2 EAST ELEVATION
ELEVATION

3 L-4.2 WEST ELEVATION
ELEVATION

5 L-4.2 SOUTH ELEVATION
ELEVATION

2 L-4.2 NORTH ELEVATION
ELEVATION

4 L-4.2 SOUTHWEST ELEVATION
ELEVATION

6 L-4.2 SOUTH ELEVATION
ELEVATION

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
(__GDP) (__CDP) (XFDP) (__PRC) (__DP) (__CP) (__SE) (__CSP) (__SP) (__VC)
SEE PROFFERS DATED: Aug 23, 2013
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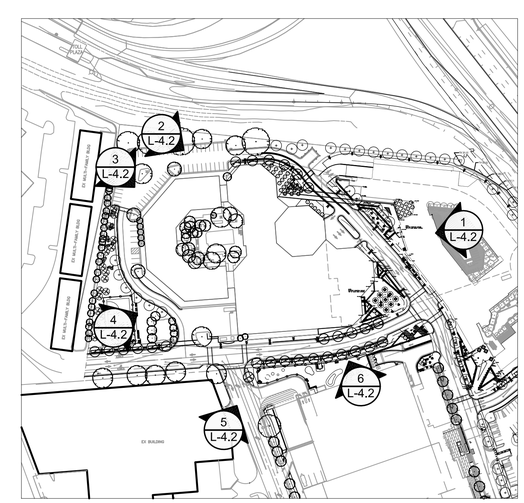
Date of Final Approval: Jul 31, 2013 (__BOS) (XPC) (__BZA)
Comments: Develop. Conds. Dated 7/31/2013
Associated W/ RZ 2011-HM-032
Sheet 56 of 60

KEY MAP



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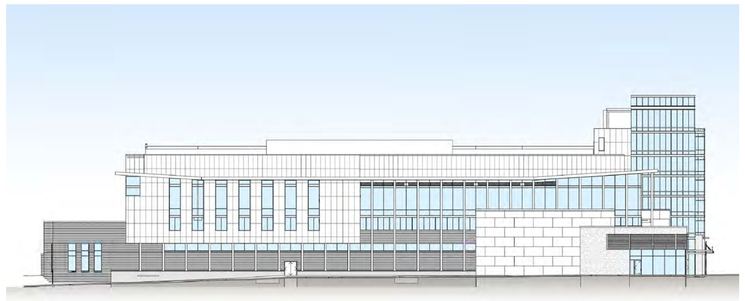
TYSONS WEST
FINAL DEVELOPMENT PLAN
JBG ROSENFELD RETAIL; HUNTER MILL DISTRICT, FAIRFAX COUNTY, VA
ELEVATIONS - EXISTING BUILDING E

REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QA/QC BY: KC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-4.2

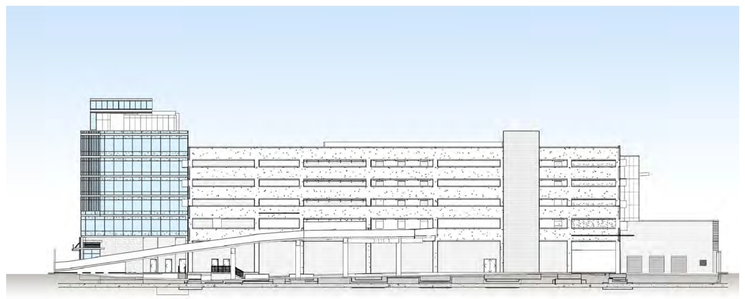
1 L-4.2 EAST ELEVATION
ELEVATION NTS



4 L-4.2 SOUTH ELEVATION
ELEVATION NTS

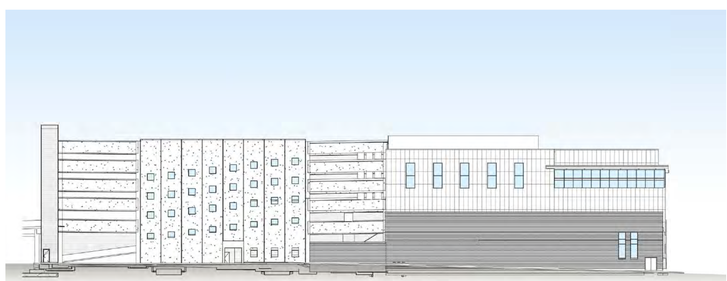
7 L-4.2 EAST ELEVATION
ELEVATION NTS

2 L-4.2 EAST ELEVATION
ELEVATION NTS



5 L-4.2 NORTH ELEVATION
ELEVATION NTS

2 L-4.2 SOUTH ELEVATION
ELEVATION NTS



6 L-4.2 WEST ELEVATION
ELEVATION NTS

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN

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SEE PROFFERS DATED: Aug 23, 2013

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Date of Final Approval: Jul 31, 2013 (_BOS) (X PC) (_BZA)

Comments: Develop. Conds. Dated 7/31/2013

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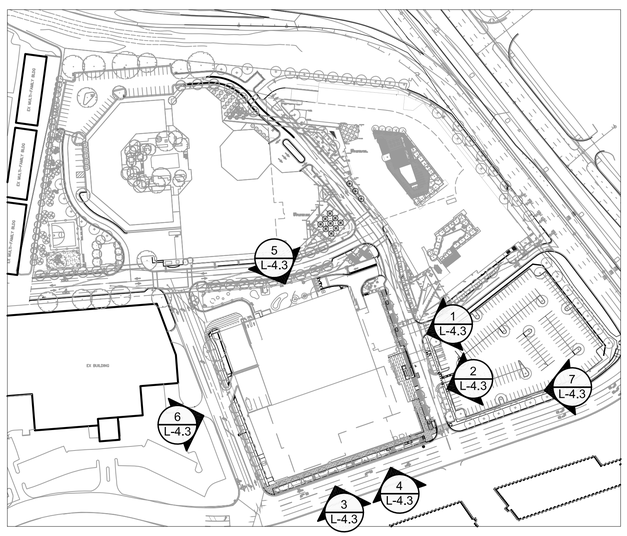
Sheet 57 of 60

KEY MAP



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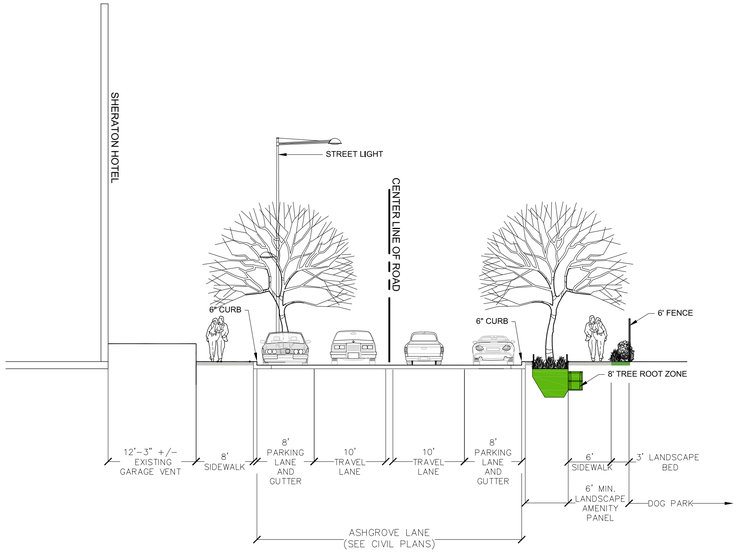
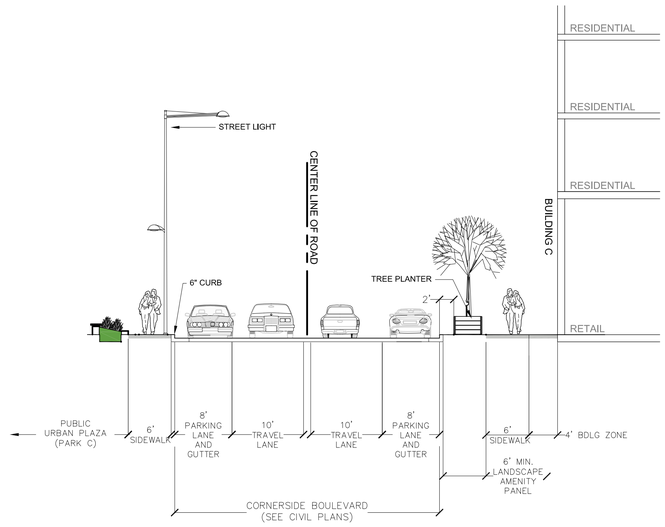
ELEVATIONS - EXISTING BUILDING D

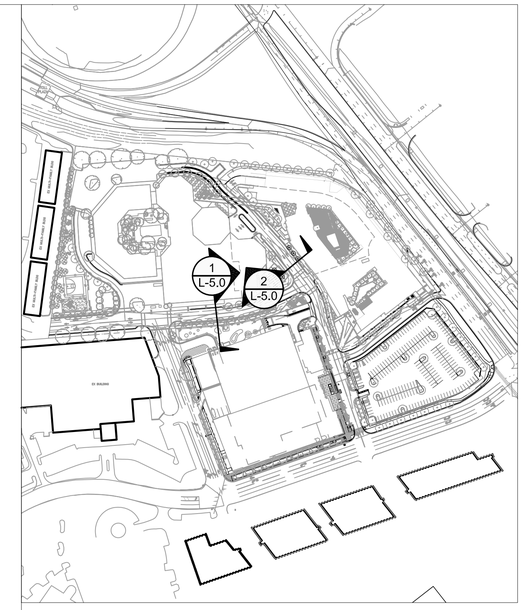
REVISIONS:
REV 1 FDP RESUBMISSION 05-10-13
REV 2 FDP RESUBMISSION 06-12-13

DATE: FEBRUARY 25, 2013
DESIGNED BY: GC/KP
DRAWN BY: KP
CHECKED BY: MC
QC BY: MC
SCALE: AS SHOWN
PROJECT #: 2011009

SHEET NUMBER:
L-4.3







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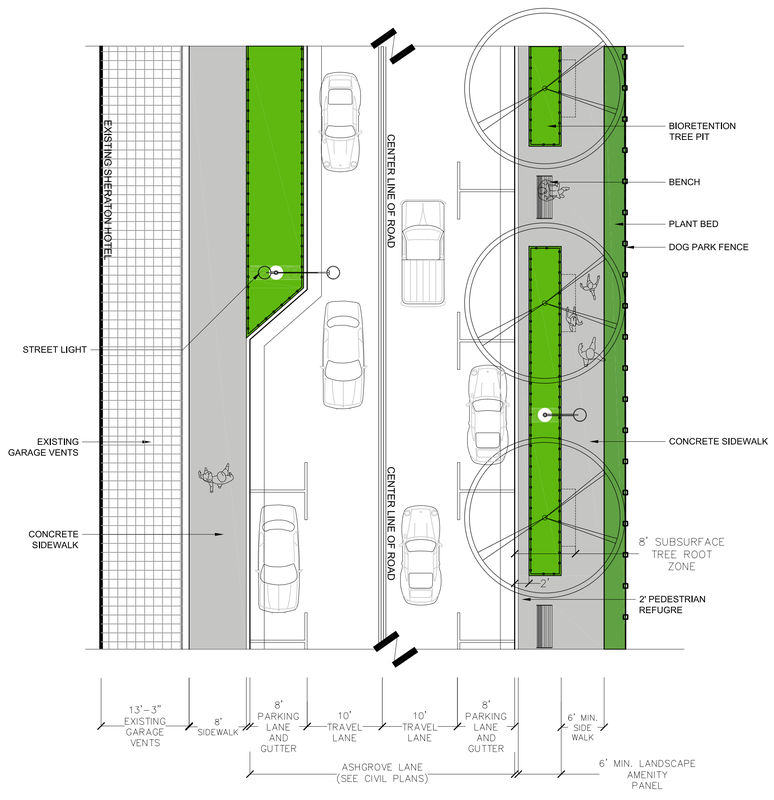
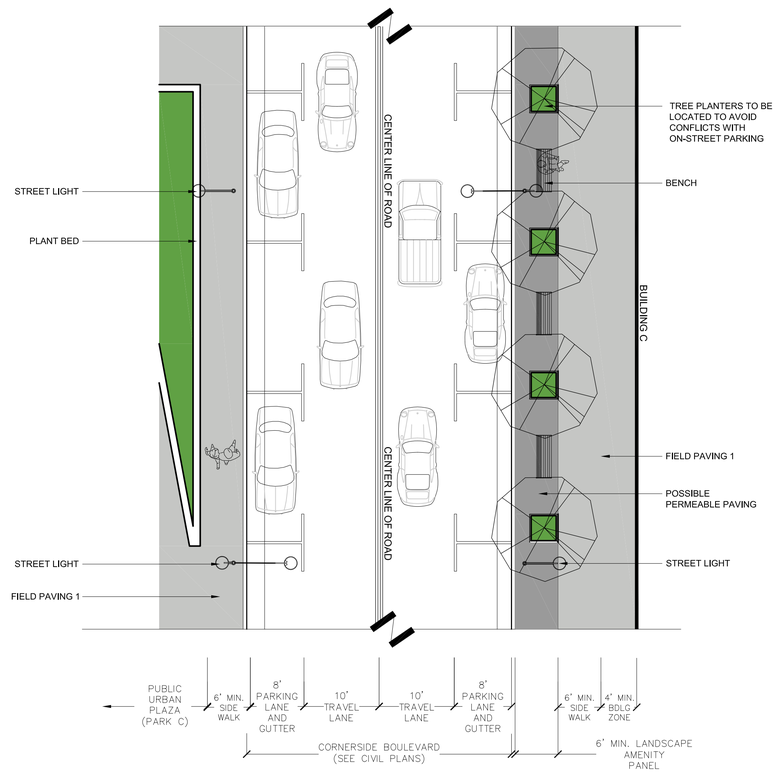


1 L-5.0 ASHGROVE LANE SECTION
SECTION 1" = 10'



2 L-5.0 CORNERSIDE BOULEVARD SECTION
SECTION 1" = 10'

Application No: FDP 2011-HM-032 Staff: S.Lin

APPROVED DEVELOPMENT PLAN
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SECTIONS

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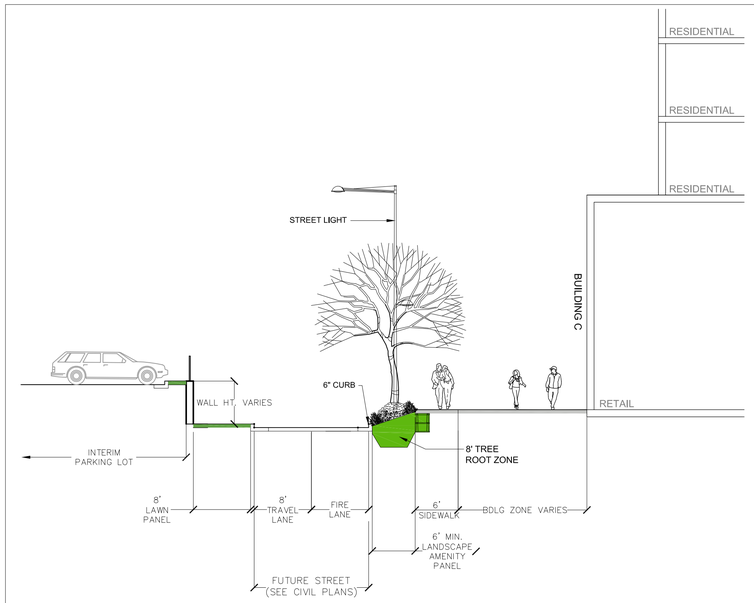

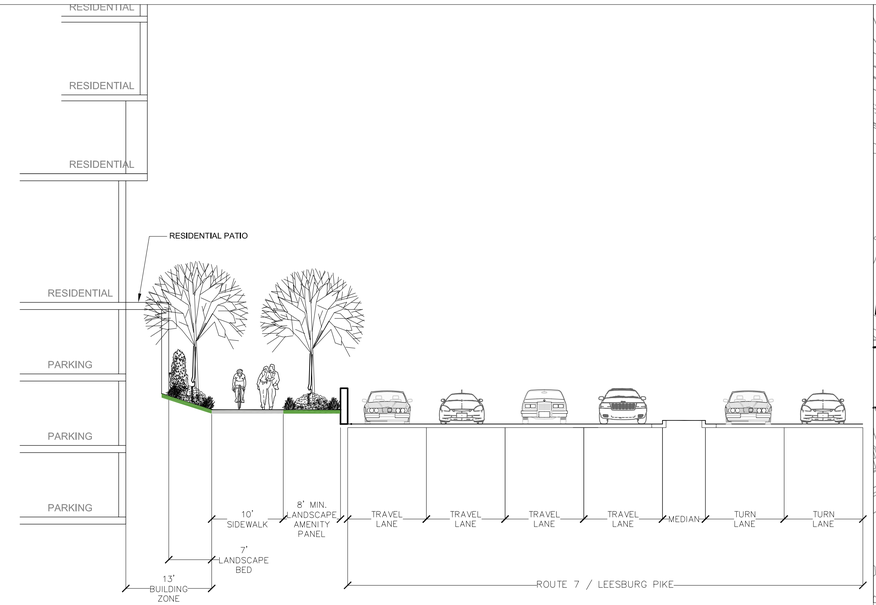

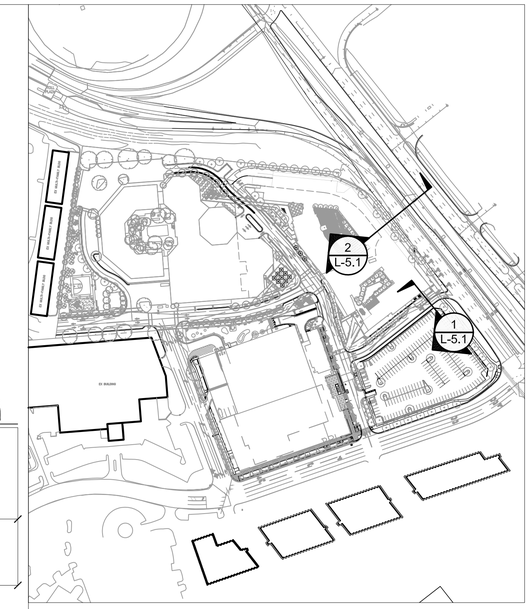

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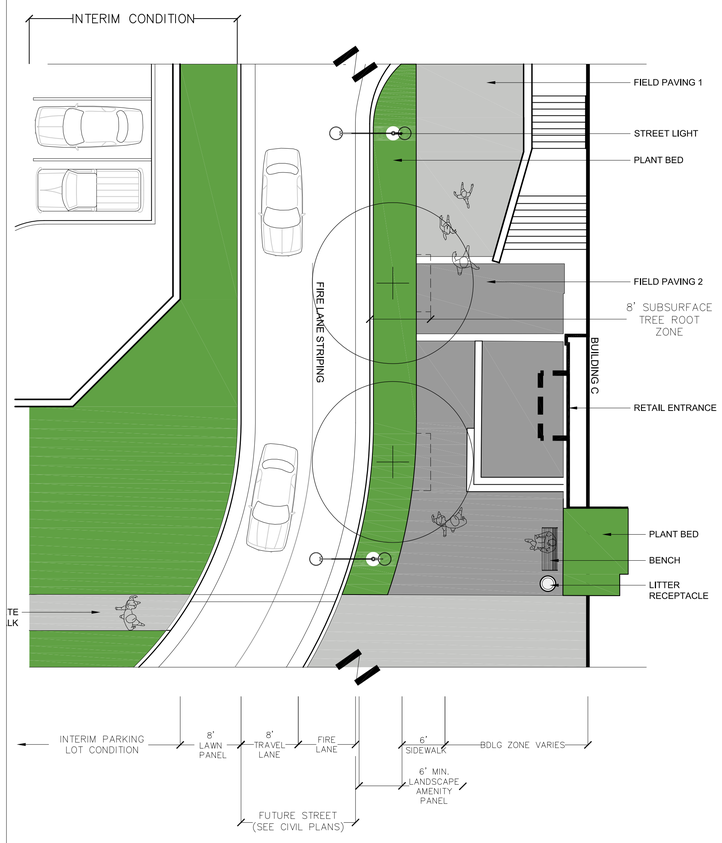
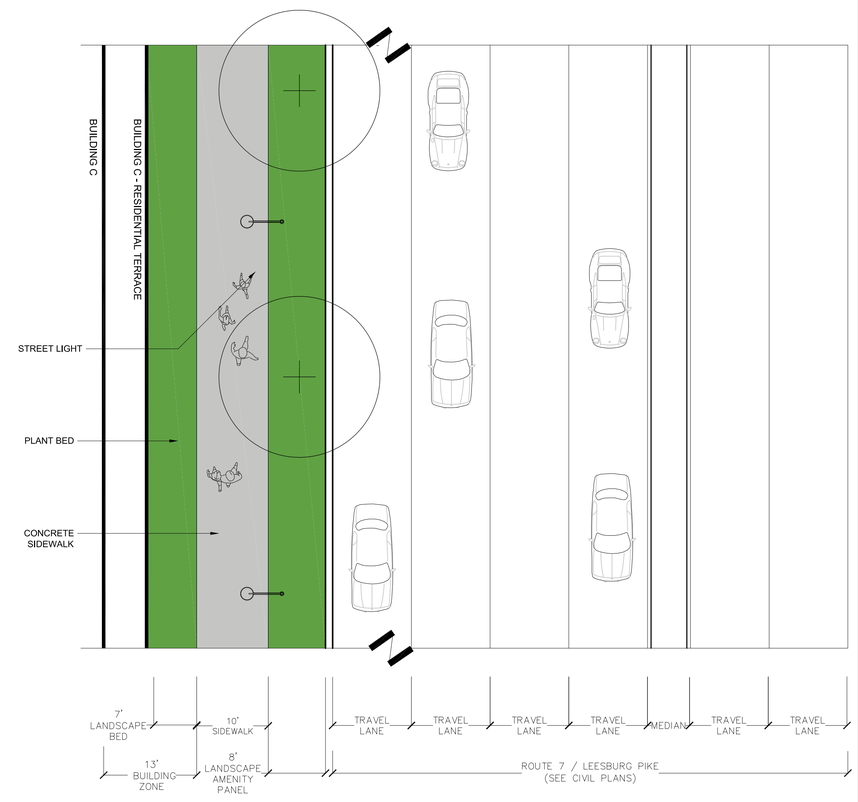


1 L-5.1 FUTURE STREET SECTION
SECTION
1" = 10'



2 L-5.1 ROUTE 7 / LEESBURG PIKE SECTION
SECTION
1" = 10'

Application No: FDP 2011-HM-032 Staff: S.Lin

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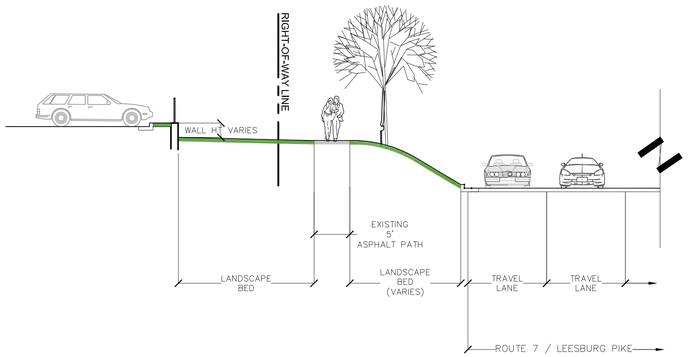
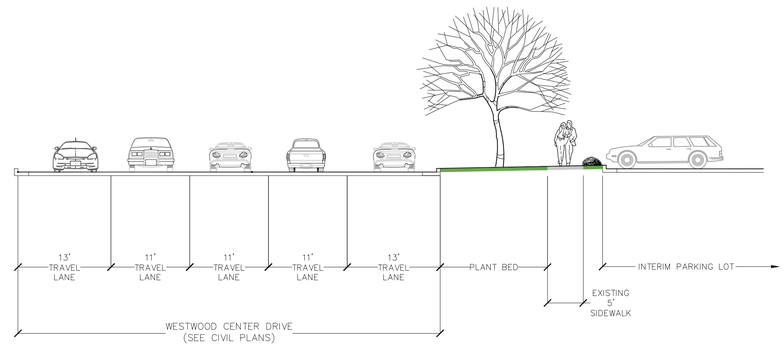
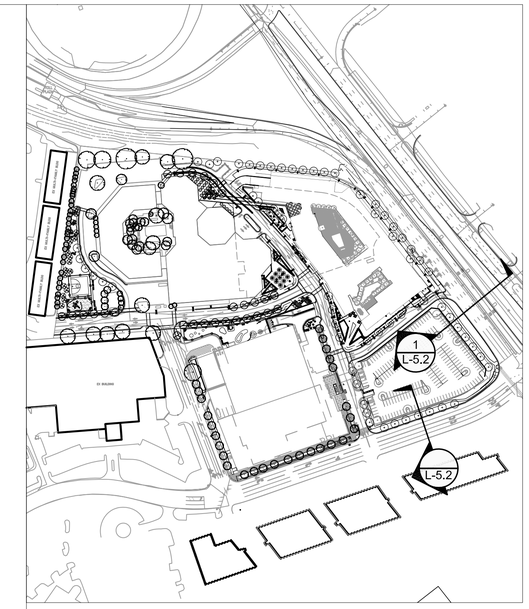
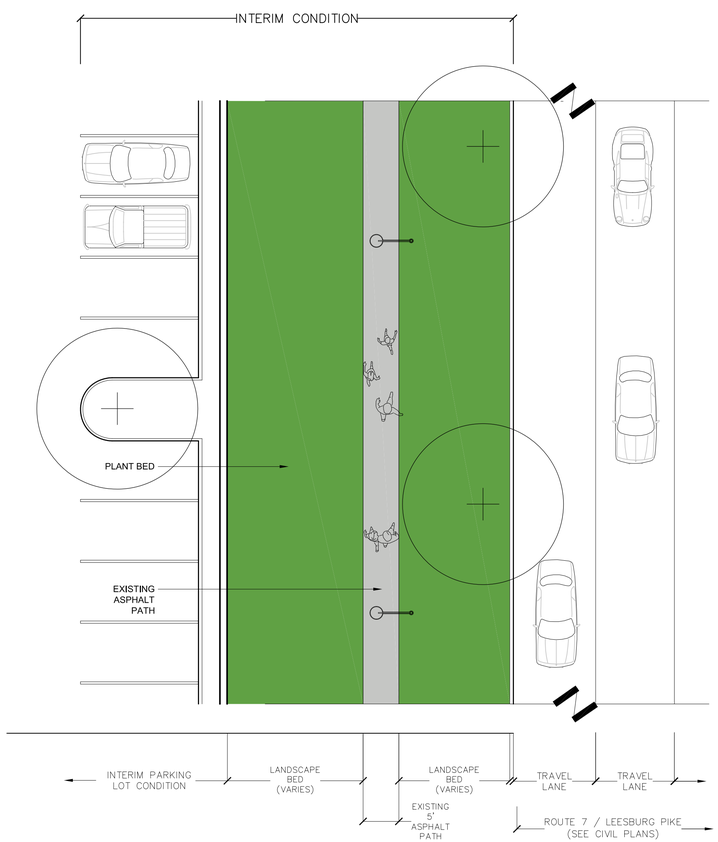
L-5.1



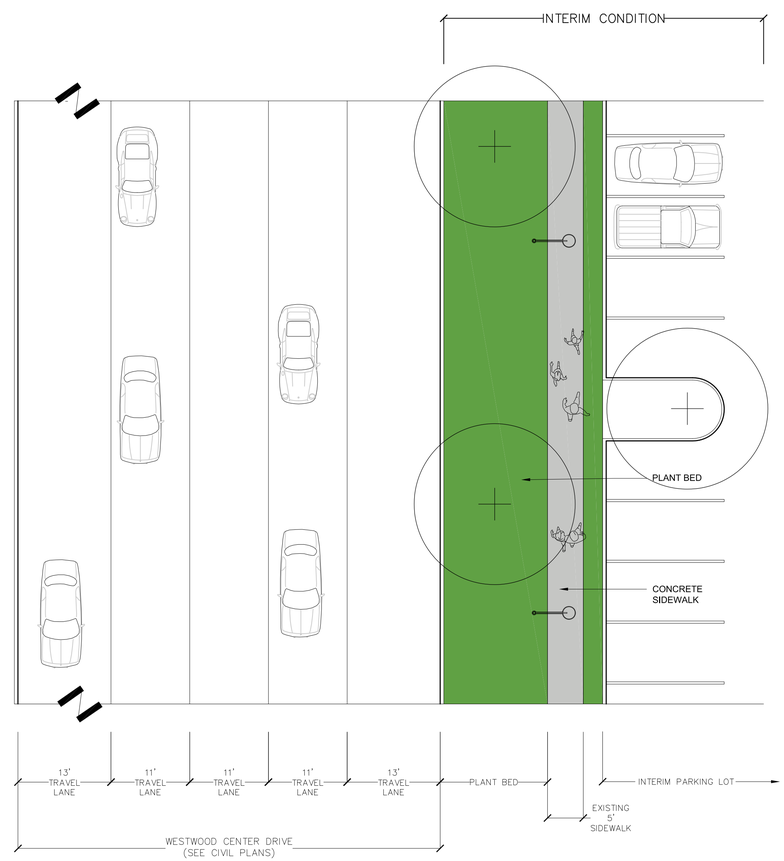




KEY MAP



1 L-5.2 ROUTE 7 / LEESBURG PIKE SECTION 1" = 10'
SECTION



2 L-5.2 WESTWOOD CENTER DRIVE SECTION 1" = 10'
SECTION

Application No: FDP 2011-HM-032 Staff: S.Lin

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