

THE MARK

DEVELOPMENT PRELIMINARY SITE PLAN

DSP#2015-0020

CITY OF ALEXANDRIA, VIRGINIA

JULY 20, 2015

ZONING TABULATIONS

TAX MAP:	058.01-02-03		
ZONE:	EXISTING : RC		
USE:			
EXISTING USE:	EXTENDED STAY HOTEL		
APPROVED / PROPOSED USE:	MULTIFAMILY APARTMENTS		
GROSS FLOOR AREA:	EX. BLDG. 211,596 SF		
NET FLOOR AREA:	EX. BLDG. 202,556 SF		
UNITS:	EXISTING: 219 UNITS PROPOSED: 227 UNITS (67 STUDIO; 125 ONE BEDROOM UNITS; 31 TWO BEDROOM UNITS; 4 THREE BEDROOM UNITS)		

LOT SIZE:	REQUIRED	PROVIDED
	181,600 S.F. (1)	183,268 S.F. OR 4.207 AC
AREA		
FRONTAGE	50 FEET	380 FEET

FAR:	1.25 MAX.	EXISTING: 1.11 (202,556 SF / 183,268 SF)
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UNITS PER ACRE:	54.45	52.06
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OPEN SPACE:	40% (73,307 SF)	40% (73,400 SF +/-) NOTE: ALL OPEN SPACE IS PROVIDED AT GRADE.
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BUILDING HEIGHT:	EX. BLDG.	EX. BLDG.
	87 FEET (3) (AFG= ELEV. 159.6)	87 FEET (3) (AFG= ELEV. 159.6)

YARDS:	FRONT	NONE	87.2 FEET
	SIDE	29 FEET	47 FEET
	REAR	87 FEET	54.6 FEET

CROWN COVERAGE:	REQUIRED	PROVIDED
	25%	39%

PARKING:	REQUIRED	PROVIDED
	236 SPACES (4)	238 SPACES
	STUDIO (67 ROOMS)	60.3 (0.9 SPACES PER ROOM)
	ONE BEDROOM (125 ROOMS)	112.5 (0.9 SPACES PER ROOM)
	TWO BEDROOM (62 ROOMS)	55.8 (0.9 SPACES PER ROOM)
THREE BEDROOM (8 ROOMS)		7.2 (0.9 SPACES PER ROOM)

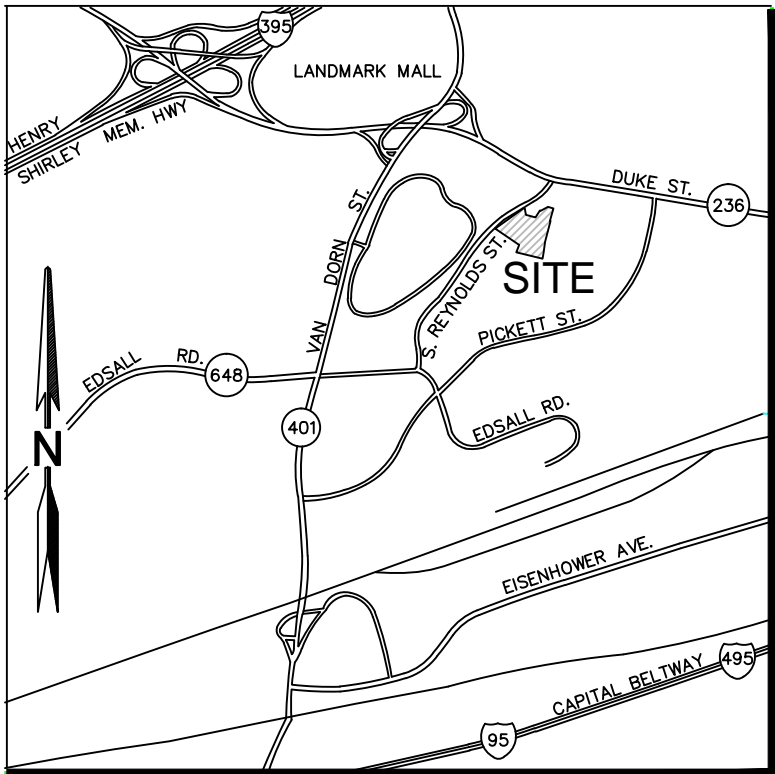
EXISTING SPACES:	218 SPACES	
PROPOSED SPACES:	238 SPACES	

BREAKDOWN OF PARKING SPACES:	REQUIRED	PROVIDED
	73 SPACES	73 SPACES
	7 SPACES (2) 177 (MAX. 75% OF TOTAL SPACES)	10 SPACES (INCL. 2 VAN) 155 SPACES (65% OF TOTAL)
STANDARD		
HANDICAP		
COMPACT		

LOADING SPACES:	NONE	NONE
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TRIP GENERATION:	EXISTING: 1,073 ADT'S (EXTENDED STAY HOTEL) PROPOSED: 950 ADT'S (MULTIFAMILY APARTMENTS)	
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FOOTNOTES:	1.	800 SF PER DWELLING UNIT* 227 UNITS = 181,600 SF
	2.	REQUIRED HANDICAP PARKING SPACES IS SIX (6) REGULAR HANDICAP SPACES PLUS ONE (1) VAN ACCESSIBLE SPACE
	3.	EXISTING BUILDING HEIGHT SHOWN IS FROM THE 2005 ALTA SURVEY.
	4.	FOR CALCULATION OF REQUIRED PARKING, THE FOLLOWING DEDUCTIONS ARE BEING TAKEN: 5% FOR MORE THAN 20% STUDIO UNITS; AND 5% FOR FOUR BUS STOPS WITHIN 0.25 MILES OF DEVELOPMENT ENTRANCE.



VICINITY MAP  
SCALE: 1" = 2,000'

AREA TABULATIONS

TOTAL SITE AREA =	4.207 ACRES,	183,268 SQUARE FEET
TOTAL AREA OF TAX PARCELS =	4.207 ACRES,	183,268 SQUARE FEET
TOTAL EXISTING IMPERVIOUS AREA =	2.80 ACRES,	121,968 SQUARE FEET
TOTAL PROPOSED IMPERVIOUS AREA =	2.78 ACRES,	121,143 SQUARE FEET
TOTAL DISTURBED AREA =	1.91 ACRES,	83,156 SQUARE FEET

SOILS

THE GENERAL SOIL CONDITION THROUGHOUT THE SITE IS DEVELOPED. TO THE BEST OF OUR KNOWLEDGE, NO HAZARDOUS OR TOXIC SUBSTANCES ARE PRESENT ON SITE. THE SITE DOES CONTAIN MARINE CLAY PER THE CITY'S "MARINE CLAY AREAS MAP" DATED NOVEMBER 1976. A GEOTECHNICAL REPORT WILL BE PREPARED AND SUBMITTED WITH THE BUILDING PERMIT APPLICATION.

RPA, WETLANDS AND FLOODPLAINS

NO RESOURCE PROTECTION AREA (RPA) OR 500 YEAR FLOODPLAIN IS PRESENT ON THE SITE AS DETERMINED BY REFERENCE TO FIRM COMMUNITY PANEL NO. 51551900 E REVISED JUNE 16, 2011 AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ARCHAEOLOGY

PER FINDINGS FROM THE CITY'S ARCHAEOLOGICAL REVIEW WITH THE DEVELOPMENT CONCEPT I PLAN, THIS PROPERTY HAS LOW POTENTIAL TO HAVE SIGNIFICANT ARCHEOLOGICAL REMAINS THAT COULD YIELD IMPORTANT INFORMATION ON ALEXANDRIA'S HISTORY. ARCHEOLOGICAL RECOMMENDATIONS HAVE BEEN ADDED TO THE GENERAL CONSTRUCTION NOTES FOUND ON SHEET 2.

OWNER / DEVELOPER:  
**Landmark 100 SR, LLC**  
c/o NORTHPOINT REALTY PARTNERS  
8120 WOODMONT AVENUE, SUITE 410  
BETHESDA, MARYLAND 20814  
P 301.825.9601  
F 301.710.6384

PLANNING / CIVIL ENGINEERING /  
LANDSCAPE ARCHITECTURE:  
**Pennoni**  
13880 DULLES CORNER LANE  
HERNDON, VIRGINIA 20171  
T 703.449.6700  
F 703.449.6714

PROJECT NARRATIVE

THE APPLICANT PROPOSES TO AMEND THE APPROVED DEVELOPMENT SITE PLAN DSP #2012-00032 TO ADJUST PARKING TO CURRENT STANDARDS, ADD 8 UNITS WITHIN THE EXISTING BUILDING FOOTPRINT AND PERMITTED DENSITY, AND REMOVE THE APPROVED PARKING STRUCTURE.

EXISTING APPROVALS

MASTER PLAN AMENDMENT MPA#2013-0001; REZONING REZ#2013-0001; AND DEVELOPMENT SITE PLAN DSP#2012-0032 FOR WASHINGTON SUITES RESIDENCES WERE APPROVED BY THE CITY OF ALEXANDRIA MAY 7, 2013.

FINAL SITE PLAN DSP #2012-00032 WAS APPROVED OCTOBER 14, 2014 BY THE CITY OF ALEXANDRIA

MODIFICATIONS GRANTED WITH DSP#2012-00032

- MASTER PLAN AMENDMENT AND REZONING FOR THE NORTHERN TWO PARCELS FROM CG TO RC.
- MODIFICATION TO SECTION 3-906.B.1 FOR THE REQUIRED OPEN SPACE.
- MODIFICATION TO SECTION 3-906.A.2 AND 3 FOR THE REQUIRED SIDE AND REAR YARDS.
- MODIFICATION TO THE LANDSCAPE GUIDELINES FOR A REDUCTION TO THE REQUIRED NUMBER OF STREET TREES DUE TO BUS STOP.

BUILDING CODE ANALYSIS

EXISTING RESIDENTIAL BUILDING RENOVATION:

USE GROUP: R-2, B, A-2 NON-SEPARATED

CONSTRUCTION TYPE: 1-B

NUMBER OF STORIES: 9 STORIES

SANITARY OUTFALL NARRATIVE

THE WASHINGTON SUITES SITE WAS ORIGINALLY DEVELOPED IN 1966 AND OPERATED AS MULTI-FAMILY APARTMENTS WITH 219 UNITS, ALONG WITH SUPPORTING AMENITIES AND PARKING. IN 1973, THE BUILDING CHANGED TO A HOTEL USE, WHICH HAS CONTINUED TO THIS DATE. FSP DSP #2012-00082 CONVERTED THE USE OF THE BUILDING BACK TO 219 MULTIFAMILY APARTMENTS, AS WAS APPROVED UNDER THE ORIGINAL SITE PLAN. THIS PLAN PROPOSES THE ADDITION OF EIGHT APARTMENT UNITS.

SANITARY FLOWS FROM THIS PROJECT WILL CONTINUE TO UTILIZE THE EXISTING SEWER LATERAL AND MAIN THAT WERE ORIGINALLY CONSTRUCTED FOR THE BUILDING, AND ARE CALCULATED IN ACCORDANCE WITH THE CITY OF ALEXANDRIA MEMORANDUM TO THE INDUSTRY NO. 02-07 CONCERNING NEW SANITARY CONNECTION AND ADEQUATE OUTFALL ANALYSIS, DATED JUNE 1, 2007. THE FOLLOWING WERE CONSIDERED:

- PROPOSED USE AND DENSITIES FOR WASHINGTON SUITES WILL REMAIN AS ORIGINALLY APPROVED (219 APARTMENT UNITS).
- SEWAGE FLOWS WILL BE CARRIED BY THE EXISTING PRIVATE SEWER LATERAL AND THE EXISTING PUBLIC SEWER MAIN THAT WERE ORIGINALLY APPROVED AND CONSTRUCTED FOR THE BUILDING.
- PEAK FLOWS ARE CALCULATED AS FOLLOWS: 227 APARTMENT UNITS X 300GPD/UNIT = 0.068 MGD. USING A PEAKING FACTOR OF 4.0, THE PEAK FLOW RATE IS 0.272 MGD (0.42 CFS). SEE FLOW CALCULATIONS CHART ON THIS SHEET.

SEWAGE WILL FLOW NORTHWARD TO A 10" PUBLIC SEWER LINE IN SOUTH REYNOLDS STREET, THEN CONTINUE NORTHWARD TO A SEWER MAIN ALONG HOLMES RUN. BECAUSE THE ON-SITE DENSITY AND USE ARE CONSISTENT WITH THAT ORIGINALLY APPROVED FOR THE WASHINGTON SUITES PROJECT, AND BECAUSE THE RECEIVING SYSTEM IS THE SAME AS THAT ORIGINALLY INSTALLED TO ACCOMMODATE THE PROJECT, IT IS THE ENGINEER'S OPINION THAT THE RECEIVING SEWER SYSTEM IS ADEQUATE FOR THE RESTORED APARTMENT USE. FURTHER VERIFICATION OF OFF-SITE SEWERS WILL BE PROVIDED AS REQUIRED WITH FINAL DESIGNS.

RESIDENTIAL						PEAK FLOW						
MANHOLE NO.	TO	GFA (SF)	DWELLING UNITS (DU)	300 GPD/ UNIT AVE FLOW (GPD)	INCR. RES. FLOW (MGD)	TOTAL RES FLOW (MGD)	INCR. OFF & RET. FLOW (MGD)	TOTAL OFF & RET. FLOW (MGD)	PRIMARY FLOW (MGD)	PEAK FACTOR	PEAK FLOW (MGD)	FLOW/ CFS
BLDG	OUTFALL		227	300 X 227 = 68,100	0.068	0.068	0.000	0.000	0.068	4.0	0.272	0.42

ATTORNEY:  
**Walsh Colucci Lubeley & Walsh PC**  
220 CLARENDON BOULEVARD, SUITE 1300  
ARLINGTON, VIRGINIA 22201  
T 703.528.4700  
F 703.525.3197

ARCHITECTURE:  
**Penney Design Group, LLC**  
8120 WOODMONT AVENUE  
SUITE 410  
BETHESDA, MD 20814  
T 301.979.7600  
F 301.710.6384

SHEET INDEX

NO.	TITLE
CS0001	COVER SHEET
CS0002	GENERAL NOTES
CS0003	CONTEXTUAL PLAN
CS0004	EXISTING CONDITIONS
CS0005	EXISTING CONDITIONS NOTES & TABLES
CS0006	PRELIMINARY SITE PLAN
CS0007	PRELIMINARY GRADING PLAN
CS0008	SIGHT DISTANCE PLAN
CS0009	LANDSCAPE PLAN
CS0010	LANDSCAPE NOTES AND DETAILS
CS0011	OPEN SPACE PLAN
CS0012	GIS DIMENSION PLAN
CS0013	FIRE TRUCK PLAN
CS0014	SITE DETAILS
CS0015	STORMWATER MANAGEMENT PLAN
CS0016	PRELIMINARY SWM COMPUTATIONS
CS0017	SWM PLAN WATER QUALITY MAPS AND COMPS
CS0018	STORM OUTFALL ANALYSIS MAP AND NARRATIVE
CS0019	SANITARY SEWER OUTFALL ANALYSIS
CS0020	SANITARY SEWER PROFILE
CS0021	SANITARY SEWER PROFILE
CS0022	SANITARY SEWER PROFILE

ARCHITECTURAL PLANS

A-001	COVER SHEET (ARCHITECTURE)
A-101	FIRST FLOOR PLAN
A-102	FIFTH FLOOR PLAN
A-103	NINTH FLOOR ELEVATION
A.1.3.1	POOL DECK PLAN
A 5.1.2	EXTERIOR ELEVATION
A 5.1.3	EXTERIOR ELEVATION
A7.1.1	EXTERIOR RENOVATION
A7.1.4	POOL DECK ELEVATIONS

APPROVED

SPECIAL USE PERMIT NO. \_\_\_\_\_

DEPARTMENT OF PLANNING & ZONING

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

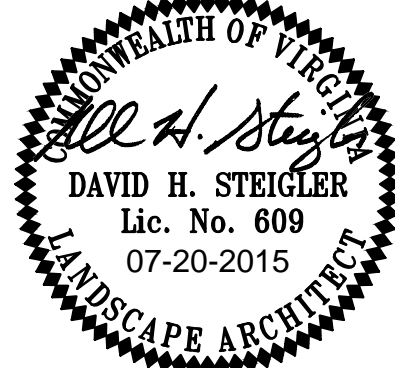
SITE PLAN NO. DSP2015 - 0020

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHAIRMAN, PLANNING COMMISSION \_\_\_\_\_ DATE \_\_\_\_\_

DATE RECORDED \_\_\_\_\_

INSTRUMENT NO. \_\_\_\_\_ DEED BOOK NO. \_\_\_\_\_ PAGE NO. \_\_\_\_\_



STRUCTURAL ENGINEERING:  
**Tadger-Cohen-Edelson Associates Inc.**  
1109 SPRING STREET, 5TH FLOOR  
SILVER SPRING, MD  
T 301.587.1820

JULY 20, 2015  
SHEET 1 OF 22  
CS0001 CV



1. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY ACTION AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
2. THE SUBJECT BUILDING WILL BE VACATED DURING PROPOSED ON-SITE CONSTRUCTION ACTIVITIES BUT ADJACENT BUSINESSES AND RESIDENCES SHALL REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION AND SHALL NOT BE INCONVENIENCED BY THE WORK.
3. THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED FOLLOWING NOTIFICATION AND MARKING OF ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES. TEST HOLES TO BE PERFORMED AT LEAST 30 DAYS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE OWNER AND ENGINEER. REDESIGN AND APPROVAL BY REVIEWING AGENCIES SHALL BE OBTAINED, IF REQUIRED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER OF ANY CHANGES OR CONDITIONS ATTACHED TO PERMITS OBTAINED FROM ANY AUTHORITY ISSUING PERMITS.
5. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
6. THE CONTRACTOR SHALL CLEAR THE SITE OF ALL TREES, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SPECIFIED, AND SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED IF REQUIRED.
7. THE DEVELOPER SHALL PROVIDE OVER-LOT GRADING TO PROVIDE POSITIVE DRAINAGE AND PRECLUDE PONDING OF WATER.
8. ALL AREAS ON, OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON, SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. THE MINIMUM ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS, SEED MIXTURE TO BE AS RECOMMENDED BY THE CITY AGENT, ALL SLOPES 3:1 AND GREATER SHALL BE SODDED AND PEGGED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY OF ALEXANDRIA.
9. EXISTING WELLS SHALL BE PERMANENTLY ABANDONED IN ACCORDANCE WITH VIRGINIA STATE WATER CONTROL BOARD REQUIREMENTS.
10. EXISTING SEPTIC FIELDS, IF APPLICABLE, SHALL BE ABANDONED IN ACCORDANCE WITH VIRGINIA HEALTH DEPARTMENT STANDARDS AND SPECIFICATIONS.
11. ALL ABOVE GROUND UTILITIES SERVING THE SITE SHALL BE RELOCATED AS REQUIRED BY THE OWNING UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS AND COORDINATING ALL WORK REQUIRED FOR THE NECESSARY RELOCATIONS.
12. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL VERIFY FROM THE ARCHITECTURAL DRAWINGS ALL DIMENSION, DETAILS, AND TREATMENT FOR THE PROPOSED BUILDINGS, WALKWAYS, AND OTHER PROPOSED CONSTRUCTION WHERE INDICATED ON THE PLANS.
13. THE CONTRACTOR IS TO VERIFY INVERT, SIZE AND LOCATION OF BUILDING UTILITY CONNECTIONS WITH THE MECHANICAL PLANS PRIOR TO PLACEMENT OF UNDERGROUND UTILITIES.
14. EXISTING BUILDINGS, FENCES AND OTHER EXISTING PHYSICAL FEATURES ARE TO BE REMOVED AS REQUIRED BY THE CONSTRUCTION.
15. EXISTING CONC. SIDEWALKS AND CURBS & GUTTERS SHALL BE REMOVED TO NEAREST JOINT. NEW CONSTRUCTION SHALL BE PROVIDED AS SHOWN AND ANY DAMAGED AREA SHALL BE REPAIRED TO MATCH CONDITIONS EXISTING PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE DIRECTOR OF T&E.
16. DAMAGE TO ANY EXISTING ENTRANCES, CURB AND GUTTER, PAVEMENT OR OTHER EXISTING STRUCTURES NOT PROPOSED TO BE DISTURBED WITH THIS DEVELOPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE CITY OF ALEXANDRIA INSPECTOR AND ANY ADJOINING OWNERS THAT MAY BE AFFECTED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING A SMOOTH TRANSITION TO EXISTING CURB.
18. ANY NEW PRIVATE BUILDING CONNECTIONS, INCLUDING ROOF DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
19. TOPS OF EXISTING STRUCTURES WHICH REMAIN IN USE ARE TO BE ADJUSTED IN ACCORDANCE WITH THE GRADING PLAN. ALL PROPOSED STRUCTURE TOP ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR WITH THE SITE GRADING PLANS. IN CASE OF CONFLICT, THE GRADING PLAN SHALL SUPERSEDE PROFILE ELEVATIONS. MINOR ADJUSTMENTS TO MEET FINISHED GRADE ELEVATIONS MAY BE REQUIRED. TOPS OF EXISTING STRUCTURES WITHIN PEDESTRIAN ROUTES SHALL BE ADA COMPATIBLE AND SHALL BE ADJUSTED TO PROVIDE A SMOOTH SURFACE.
20. THE DESIGN, CONSTRUCTION, FIELD PRACTICES AND METHODS SHALL CONFORM TO THE REQUIREMENTS SET FORTH BY THE CITY OF ALEXANDRIA AND ITS CURRENT ZONING ORDINANCE AND CONSTRUCTION STANDARDS MANUAL. FAILURE TO COMPLY WITH THE CODE, APPLICABLE MANUALS, PROVISIONS OF THE CONSTRUCTION, AND ESCROW AGREEMENTS OR THE PERMITS SHALL BE DEEMED A VIOLATION.
21. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE OWNER/DEVELOPER OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY THE CITY OF ALEXANDRIA.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ANY EXISTING LANDSCAPING WHICH IS TO BE RELOCATED ON THE SITE WILL BE CAREFULLY STORED IN A DESIGNATED AREA BEFORE BEING REPLANTED. COORDINATION WITH THE OWNER FOR MUTUALLY AGREEABLE STORAGE LOCATIONS FOR LANDSCAPE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF PLANT MATERIAL THAT DOES NOT SURVIVE STORAGE AND REPLANTING.
23. CONSTRUCTION STAKEOUT SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA.
24. NO EVIDENCE OF GRAVES OR BURIAL SITES HAVE BEEN FOUND ON THIS PROPERTY.
25. ALL ON-SITE RETAINING WALLS ARE SUBJECT TO SEPARATE PERMITS TO BE OBTAINED BY THE OWNERS. THIS PLAN IS FOR LOCATION AND PROPOSED GRADING ONLY. GEOTECHNICAL AND STRUCTURAL DESIGN IS TO BE ACCOMPLISHED BY OTHERS.

- THE CONTRACTOR IS REFERRED TO STRUCTURAL, GEOTECHNICAL, MECHANICAL AND ARCHITECTURAL PLANS FOR FOUNDATION TREATMENT INCLUDING, BUT NOT LIMITED TO, SHEETING AND SHORING FOR BUILDING EXCAVATION, WATERPROOFING FOR FILL AGAINST BUILDINGS, AND LOCATION OF MECHANICAL EQUIPMENT AND CONNECTIONS AT THE FACES OF BUILDINGS.
27. SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE GUTTER AND/OR THE PONDING OF WATER ON THE ROADWAY.
28. PROPOSED PAVEMENT SECTION DEPTH(S) ARE BASED ON A CBR VALUE OF 6 .IF REQUIRED, LABORATORY TESTS OF SUBGRADE SOIL SHALL BE PERFORMED FOR ACTUAL DETERMINATION OF REQUIRED SUBGRADE THICKNESS PRIOR TO PAVING. IN THE CASE OF PAVEMENT PATCHES, PAVEMENT SECTION MUST MEET OR EXCEED EXISTING SECTION.
29. EMERGENCY VEHICLE EASEMENTS AND HANDICAPPED PARKING SPACES TO BE MARKED ACCORDING TO CITY OF ALEXANDRIA STANDARD SIGNAGE AND ADA REQUIREMENTS.
30. ALL STRIPING TO MEET MUTCD STANDARDS.
31. ALL EROSION CONTROLS SHALL CONFORM TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST EDITION) AND MUST BE SUBMITTED AND APPROVED BY T&ES.
32. ALL PAVEMENTS WITHIN EMERGENCY VEHICLE EASEMENTS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS (CSAP-1A).
33. ALL EARTHWORK OPERATIONS ARE TO BE PERFORMED UNDER THE FULL TIME, ON-SITE SUPERVISION OF A REGISTERED GEOTECHNICAL ENGINEER WITH GEOTECHNICAL TESTING IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AND SOILS REPORT REQUIREMENTS.
34. SOLID WASTE SHALL BE DELIVERED TO WASTE TO ENERGY FACILITY.
35. PROPOSED CURB RADII ARE GIVEN TO THE FACE OF CURB.
36. CONSTRUCTION PERMITS ARE REQUIRED FOR THIS PROJECT. THE APPROVED SITE PLAN MUST BE ATTACHED TO THE PERMIT APPLICATION THAT FULLY DETAILS THE CONSTRUCTION AS WELL AS LAYOUTS AND SCHEMATICS OF THE MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS.
37. ALL PUBLIC AND PRIVATE EASEMENTS OR ALL KNOWN PUBLIC AND PRIVATE EASEMENTS, INCLUDING ALL UTILITY, EGRESS, AND CONSERVATION RESTRICTIONS ARE SHOWN. THE APPLICANT SHALL NOT CONSTRUCT ANY PERMANENT STRUCTURES OVER ANY EXISTING OR PROPOSED PUBLIC AND/OR PRIVATE EASEMENTS UNLESS OTHERWISE APPROVED BY THE PLANNING COMMISSION AND CITY OF ALEXANDRIA COUNCIL.
38. ALL NEW CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND TO THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC).
39. ALL IMPROVEMENTS TO THE CITY'S RIGHT-OF-WAY SUCH AS CURB, GUTTER, SIDEWALK, AND DRIVEWAY APRONS, ETC., ARE DESIGNED PER THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS.
40. ALL STREET CUT AND PATCH WORK LOCATED IN PUBLIC RIGHT-OF-WAYS, REQUIRED FOR ANY UTILITY INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES).
41. CONTRACTOR MUST ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES WITHOUT RECORDED EASEMENT OR NOTORIZED LETTER OF PERMISSION FROM THE ADJACENT PROPERTY OWNERS.
42. ALL REQUIRED STATE AND FEDERAL PERMITS, WHICH COULD INCLUDE PERMITS FROM THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (VOCR), VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ), VIRGINIA DEPARTMENT OF HISTORIC RESOURCES (VDHR), UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), ARMY CORPS OF ENGINEERS AND VIRGINIA MARINE RESOURCES, MUST BE IN PLACE FOR ALL PROJECT CONSTRUCTION AND MITIGATION WORK PRIOR TO RELEASE OF THE FINAL SITE PLAN. THIS INCLUDES THE STATE REQUIREMENT FOR A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMGP) GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2,500. INFORMATION REGARDING THE VSMGP GENERAL PERMIT CAN BE FOUND ONLINE AT: [http://www.dcr.virginia.gov/soil\\_and\\_water/vsmgp.shtml](http://www.dcr.virginia.gov/soil_and_water/vsmgp.shtml)
43. PERMITS FROM THE CITY OF ALEXANDRIA OFFICE OF ENVIRONMENTAL QUALITY (OEQ) TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES), AND BUILDING AND FIRE CODE ADMINISTRATION SHALL BE OBTAINED BY THE APPLICANT, AS REQUIRED AND DOCUMENTED HEREIN. THE CONTRACTOR CAN CONTACT ALEXANDRIA FIRE AND CODE ADMINISTRATION DEPARTMENT AT (703) 838-4644 OR (703) 746-4200 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.
44. ANY WORK IN THE PUBLIC RIGHT OF WAY SHALL REQUIRE A SEPARATE PERMIT FROM THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES. THE CONTRACTOR CAN CONTACT THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES AT (703) 746-4035 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.
45. THE PROPERTY ADDRESS MUST BE CLEARLY MARKED IN THE FRONT AND BACK OF THE PROPOSED DEVELOPMENT SITE DURING CONSTRUCTION FOR EMERGENCY RESPONSE PURPOSE IN CONTRASTING COLORS FOR EASY IDENTIFICATION.
46. THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE OCCURS ON SITE TO PREVENT PONDING OR DRAINAGE PROBLEMS ON ADJACENT PROPERTIES.
47. ALL STORM DRAINS NOT SHOWN WITHIN AN EASEMENT OR IN A PULIC RIGHT OF WAY SHALL BE OWNED AND MAINTAINED PRIVATELY.
48. THE SIDEWALKS SHALL REMAIN OPENED DURING CONSTRUCTION OR PEDESTRIAN ACCESS SHALL BE MAINTAINED TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
49. PRIOR TO THE RELEASE OF THE FINAL SITE PLAN, A TRAFFIC CONTROL PLAN FOR CONSTRUCTION DETAILING PROPOSED CONTROLS TO THE TRAFFIC MOVEMENT, LANE CLOSURES, CONSTRUCTION ENTRANCES, HAUL ROUTES, AND STORAGE AND STAGING SHALL BE PROVIDED FOR INFORMATION PURPOSE; HOWEVER, AN AMENDED TRAFFIC CONTROL PLAN, IF REQUIRED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES SHALL BE SUBMITTED TO THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES ALONG WITH THE BUILDING PERMIT APPLICATION. THE FINAL SITE PLAN SHALL INCLUDE A STATEMENT "FOR INFORMATION ONLY" ON THE TRAFFIC CONTROL PLAN SHEETS.

01-02-03. AND IS CURRENTLY IN THE NAME OF ALEXANDRIA SUITES, LLC AS RECORDED UNDER INSTRUMENT #140004636 AGAINST THE LAND RECORDS OF THE CITY OF ALEXANDRIA, VIRGINIA.

THE ADDRESS FOR THE SITE IS 100 SOUTH REYNOLDS STREET, ALEXANDRIA, VIRGINIA.

THE SITE IS CURRENTLY ZONED RC.

OWNER: LANDMARK 100 SR

BOUNDARY SURVEY BY PATTON, HARRIS, RUST & ASSOCIATES, INC.

TOPOGRAPHY SURVEY BY PENNONI ASSOCIATES (PHR+A).

VERTICAL DATUM: NAVD 88

CONTOUR INTERVAL: 1 FT

FINCH MARKS:

M #1: NORTHING = 6981650.65  
EASTING = 11874178.90  
ELEVATION = 165.91  
DESCRIPTION = STORM SEWER MANHOLE

M #2: NORTHING = 6981707.87  
EASTING = 11874307.81  
ELEVATION = 153.01  
DESCRIPTION = SANITARY SEWER MANHOLE

ALL DEVELOPMENT AND CONSTRUCTION WILL BE IN CONFORMANCE WITH THE CURRENT CITY OF ALEXANDRIA ZONING ORDINANCE AND THE CURRENT CITY OF ALEXANDRIA ORDINANCE FOR CONSTRUCTION STANDARDS AND SPECIFICATIONS, AS SHOWN ON THE PLAN.

BEST MANAGEMENT PRACTICES (BMP) ARE PROVIDED WITH THESE IMPROVEMENTS AND ARE ACCOMMODATED BY VARIOUS TREATMENT FACILITIES AND ARE TO BE SHOWN ON THE FINAL SITE PLAN. ACCESS TO THESE FACILITIES WILL BE AVAILABLE FROM THE TRAVEL WAYS ON THE SITE. ALL NEW STORM WATER MANAGEMENT AND BMP FACILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED, WITH A MAINTENANCE AGREEMENT BETWEEN THE OWNER AND THE CITY OF ALEXANDRIA.

PUBLIC WATER AND SEWER ARE CURRENTLY SERVING THE SITE.

CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND NOTIFY PENNONI ASSOCIATES AT (703) 449-6700 IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND APPROVED PLAN.

EXISTING UNDERGROUND UTILITY INFORMATION TAKEN FROM AVAILABLE RECORDS. PENNONI ASSOCIATES MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. IN ADDITION, THE DEPTHS OF EXISTING WATER, TELEPHONE, ELECTRIC, GAS AND CABLE TV UTILITY LINES MAY VARY BENEATH THE SURFACE OF THE GROUND. THE CONTRACTOR IS RESPONSIBLE TO CONTACT "MISS UTILITY" UTILITY SERVICE PROTECTION CENTER AT (800) 257-7777 REGARDING THE LOCATIONS OF THESE UNDERGROUND UTILITIES, AND TO VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES THAT MAY OCCUR DUE TO HIS FAILURE TO LOCATE AND PROTECT THESE UNDERGROUND FACILITIES.

Ø DENOTES TEST HOLE REQUIRED TO DETERMINE EXACT LOCATION AND ELEVATION OF THE EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF ALL TEST HOLES PRIOR TO BEGINNING OF ANY CONSTRUCTION ON THE PROJECT. IF CONFLICTS ARE DISCOVERED AS A RESULT OF THE TEST HOLE FINDINGS, NOTIFY PENNONI ASSOCIATES @ (703) 449-6700 IMMEDIATELY.

WHERE IN CONFLICT WITH THE PROPOSED WORK, EXISTING UTILITY POLES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.

WHERE REQUIRED, ALL UTILITIES ARE TO BE RELOCATED AT THE DEVELOPER'S EXPENSE UNLESS OTHERWISE AGREED BETWEEN THE DEVELOPER AND THE RESPECTIVE UTILITIES.

EXISTING MANHOLE FRAMES AND COVERS AND VALVE BOXES AND COVERS SHALL BE ADJUSTED OR RECONSTRUCTED, AS NECESSARY, TO MATCH NEW FINISHED GRADES.

EXISTING AND ACCESSIBLE SANITARY SEWER AND STORM DRAINAGE STRUCTURES ON AND AROUND THE SITE WERE FIELD SURVEYED. UTILIZING THIS FIELD DATA AND INFORMATION OF EXISTING RECORD, THESE STRUCTURES WILL BE TABULATED FOR DESIGN REFERENCE ON THE FINAL SITE PLAN.

EXCAVATION SUPPORT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF OSHA CONSTRUCTION STANDARD 29 CFR PART 1926 SUBPART P.

ALL PERSONNEL INVOLVED WITH CONSTRUCTION OF THE PROJECT MUST PARK IN APPROVED OFF-STREET LOTS AND MAY NOT PARK ON ANY PUBLIC OR PRIVATE STREETS EXCEPT WHERE SPECIFICALLY DESIGNATED BY T&ES.

THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING ROADS AND UTILITIES THAT OCCUR AS A RESULT OF THIS CONSTRUCTION PROJECT WITHIN OR CONTIGUOUS TO EXISTING CITY OR STATE RIGHT-OF-WAYS.

PAVEMENT, SPECIAL PAVERS, AND/OR CONCRETE WHERE IN AREAS SUBJECT TO VEHICULAR LOADING SHALL BE DESIGNED TO MEET HS-20 LOADING SPECIFICATIONS.

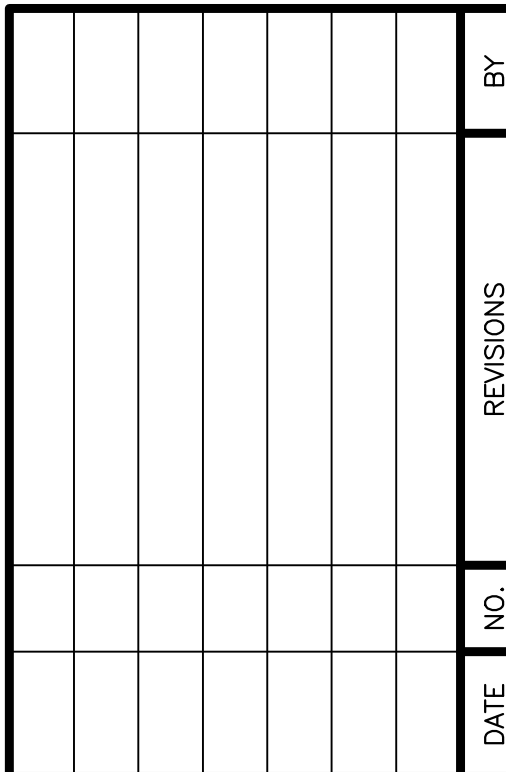
CONTRACTOR IS TO VERIFY ALL HANDICAP SPACES AND ACCESS FROM HANDICAP SPACES TO THE BUILDING SHALL MEET ALL CURRENT ADA CRITERIA. CONTRACTOR SHALL EXERCISE EXTREME CARE IN IMPLEMENTING CONSTRUCTION DETAILS PERTAINING TO ADA CRITERIA AS WELL AS PROPOSED GRADES AND SLOPES.

ANY RETAINING WALL(S) 2' IN HEIGHT AND OVER (MEASURED FROM THE TOP OF WALL AND TO THE FINISHED GRADE AT THE FACE OF WALL), SHALL REQUIRE A SEPARATE BUILDING PERMIT.

ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER ON THE SITE, PARTICULARLY ADJACENT TO BUILDINGS AND STORM INLETS.

CONTRACTOR SHALL BE RESPONSIBLE FOR A POLLUTION CONTROL PLAN AS DICTATED

- BY THE COMMONWEALTH OF VIRGINIA'S DEPARTMENT OF ENVIRONMENTAL QUALITY, THE VSMC CONSTRUCTION STORMWATER PERMIT APPLICATION SHALL BE OBTAINED PRIOR TO MOBILIZATION.
28. ALL WATER FACILITY CONSTRUCTION SHALL CONFORM TO VIRGINIA-AMERICAN WATER COMPANY STANDARDS AND SPECIFICATIONS.
29. CONTACT VIRGINIA-AMERICAN WATER COMPANY AT (703) 549-7080 TO COORDINATE CONSTRUCTION AND INSPECTION OF WATER FACILITIES.
30. A CONSTRUCTION MANAGEMENT PLAN WILL BE SUBMITTED BY OTHERS FOR THE WORK TO BE COMPLETED UNDER THIS PROJECT. THIS PLAN SHALL BE APPROVED BY THE CITY OF ALEXANDRIA AND DISPLAYED ON THE WALL OF THE CONSTRUCTION OFFICE TRAILER ON THE SITE.
31. THE CONSTRUCTION TRAILER, WHEN IN PLACE, SHALL HAVE A SECURITY SURVEY COMPLETED BY THE CRIME PREVENTION UNIT OF THE ALEXANDRIA POLICE DEPARTMENT.
32. NEW CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE UNIFORM STATEWIDE BUILDING CODE (USBC).
33. COPY OF THE SOILS REPORT MUST BE SUBMITTED WITH THE BUILDING PERMIT APPLICATION.
34. WHEN REPLACING EXISTING ASPHALT PAVEMENT, THE PROJECT SHALL INSTALL THE PROPOSED PAVEMENT SECTION OR MATCH THE EXISTING CONDITION, WHICHEVER IS GREATER.
35. ARCHEOLOGICAL NOTES:
- a. THE APPLICANT SHALL CALL ALEXANDRIA ARCHEOLOGY IMMEDIATELY (703.746.4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- b. THE APPLICANT SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.
36. ELECTRICAL (POWER) SERVICE IS PROVIDED BY DOMINION VIRGINIA POWER (ALEXANDRIA ARLINGTON DISTRICT) 907 W. GLEBE ROAD, ALEXANDRIA, VIRGINIA, 22305 (703) 838-2230.
37. PROPOSED SITE AND BUILDINGS LIGHTS WILL BE COMPATIBLE WITH THE EXISTING SITE LIGHTS AND ARCHITECTURAL FEATURES OF THE BUILDING. IN ACCORDANCE WITH THE APPLICANT'S DESIGN SCHEDULE FOR ARCHITECTURAL IMPROVEMENTS, A LIGHTING PLAN WILL BE PROVIDED WITH THE FINAL SITE PLAN.
38. THE EXISTING ENTRY SIGN FACING S. REYNOLDS STREET WILL BE REPLACED WITH A NEW PROJECT IDENTIFICATION SIGN FOR THE PROPERTY TO THE LOCATION SHOWN ON THE PELIMINARY SITE PLAN. THE DESIGN AND MATERIALS SELECTED FOR THE PROPOSED SIGN WILL BE IN A CHARACTER AND STYLE COMPATIBLE WITH THE EXISTING BUILDING, PROPOSED ENHANCEMENTS AND OTHER SITE FEATURES. THE SIGN MAY UTILIZE BRICK, CONCRETE, STUCCO AND/OR OTHER MATERIALS WHICH WILL ACCENT THE NEW BUILDING DESIGN AND IDENTITY. THE SIGN WILL BE DESIGNED TO MEET ALL APPLICABLE CITY ORDINANCES AND A SEPARATE SIGN PERMIT WILL BE OBTAINED BY THE APPLICANT. A CONCEPTUAL DESIGN FOR THIS SIGN WILL BE PROVIDED TO THE CITY WHEN AVAILABLE.
39. COMPACT CAR SPACES WILL BE PROPERLY IDENTIFIED IN THE PARKING LOT WITH PAINT IN ACCORDANCE WITH CITY STANDARDS.
40. BICYCLE PARKING FOR THE RESIDENCES WILL BE PROVIDED IN A DEDICATED ROOM LOCATED ON THE FIRST FLOOR WITH ACCESS TO THE LOBBY OR OTHER ACCESS CONTROLLED ENTRY DOOR. BIKE PARKING FOR GUESTS WILL BE LOCATED ALONG THE FRONT OF THE BUILDING. BICYCLE PARKING DETAILS WILL BE PROVIDED WITH THE FINAL SITE PLAN.
41. THE EXISTING POOL MECHANICAL EQUIPMENT CURRENTLY DISCHARGES INTO THE SANITARY SEWER SYSTEM WITHIN THE BUILDING AND NO CHANGE IS PROPOSED TO THAT SYSTEM WITH THIS SITE PLAN. POOL WATER SHOULD BE DISCHARGED DURING NON-PEAK HOURS.
42. ALL PEDESTRIAN IMPROVEMENTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY PERMIT.
43. ALL ON-SITE STORM WATER CURB INLETS AND PUBLIC CURB INLETS THAT ARE LOCATED WITHIN 50 FEET OF THE PROPERTY SHALL BE DULLY MARKED USING STANDARD CITY MARKERS INDICATING THE DRAINAGE INTO THE HOLMES RUN WATERSHED, OR TO THE SATISFACTION OF THE DIRECTOR OF T&ES.
44. ALL EXTERIOR LOUDSPEAKERS SHALL BE PROHIBITED AND NO AMPLIFIED SOUND SHALL BE AUDIBLE AT THE PROPERTY LINE.
45. SUPPLY DELIVERIES, LOADING, AND UNLOADING ACTIVITIES SHALL NOT OCCUR BETWEEN THE HOURS OF 11:00 PM AND 7:00 AM.
46. IF FIREPLACES ARE UTILIZED IN THE DEVELOPMENT, ONLY GAS FIRE PLACES SHALL BE USED AND ANIMAL SCREENS SHALL BE INSTALLED ON ALL CHIMNEYS.
47. ALL PROPOSED ROOF DRAINS (IF APPLICABLE) SHALL BE CONNECTED TO THE STORM DRAINAGE SYSTEM.
48. THIS SITE IS SUBJECT TO VIRGINIA DEQ STORMWATER MANAGEMENT GENERAL PERMIT # VAR10D3200 EXPIRATION JUNE 30, 2019.

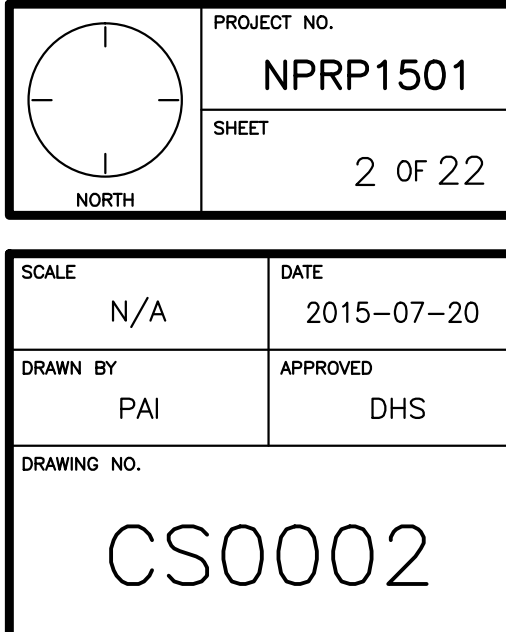


DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP2015-0020

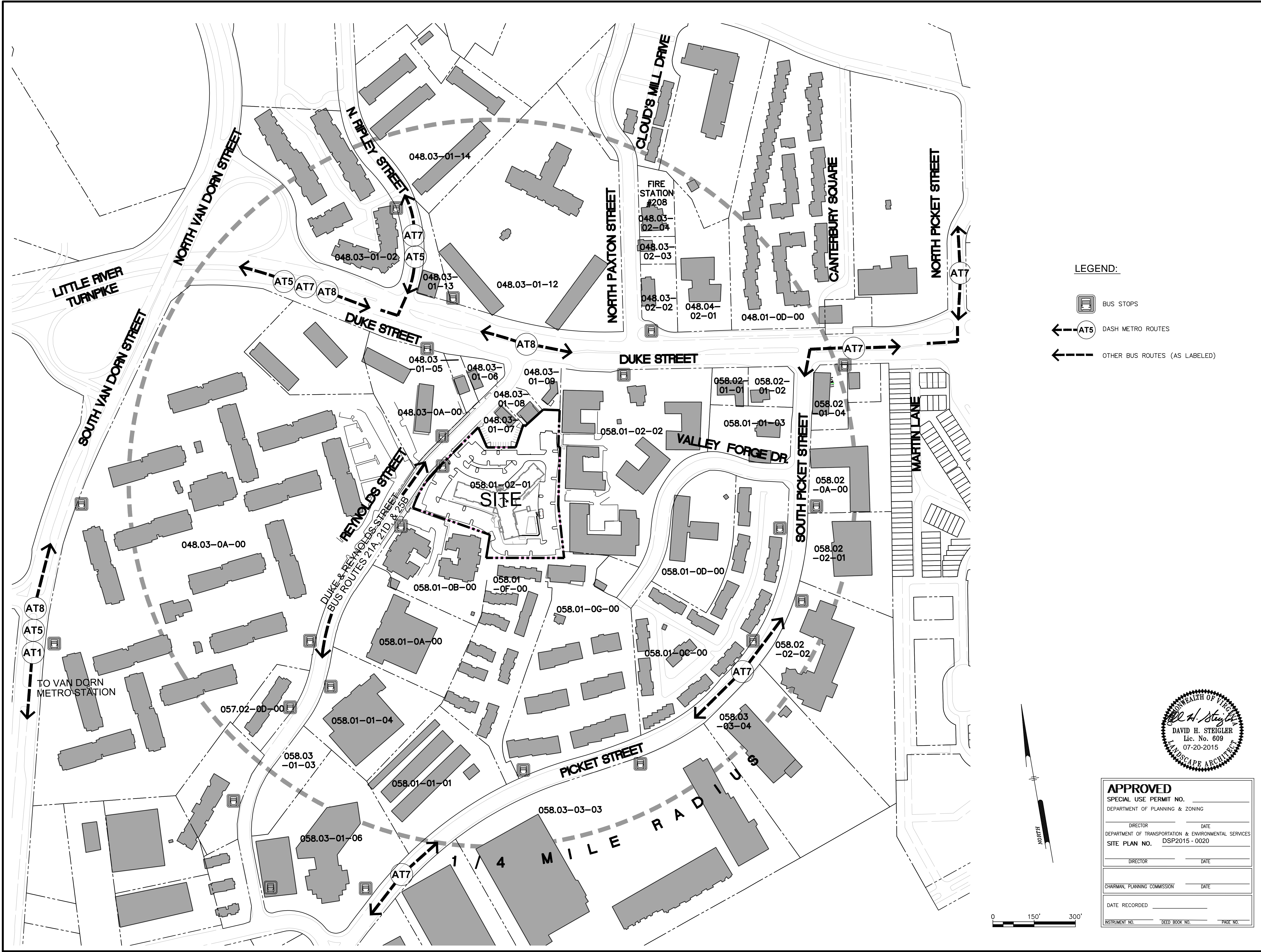
## GENERAL NOTES

(A) PROJECTS\NDRP\1501-WASHINGTON SUITES\DESIGN\ SHEETS\CS0002 GN.DWG PLOTTED: ----- BY: TIMOTHY JENKINS PLOTSTYLE: PENNONI.NCSTR PROJECT STATUS: -----

***Pennoni Associates Inc.***  
13880 Dulles Corner Lane, Herndon, VA 20171 703.449.6700

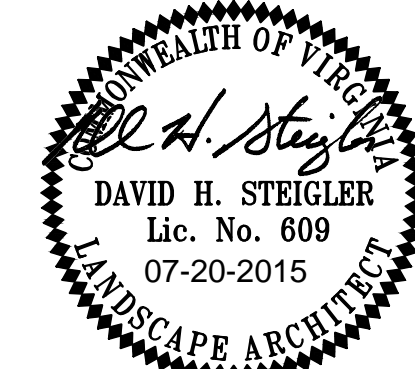






**LEGEND:**

- BUS STOPS
- DASH METRO ROUTES
- OTHER BUS ROUTES (AS LABELED)



<b>APPROVED</b>	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. DSP2015-0020	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
DATE _____	
DATE RECORDED _____	
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____	

DATE	NO.	REVISIONS	BY

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

**DEVELOPMENT PRELIMINARY SITE PLAN**  
DSP 2015-0020

**THE MARK**  
100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA

**CONTEXTUAL PLAN**  
LANDMARK 100 SR, LLC  
c/o NORTHPOINT REALTY PARTNERS  
8210 WOODMONT AVENUE SUITE 410  
BETHESDA, MARYLAND 20814

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

**Pennoni Associates Inc.**  
13980 Dulles Corner Lane, Herndon, VA 20171 703.449.6700

**PROJECT NO.** NPRP1501  
**SHEET** 3 OF 22

**SCALE** 1" = 150'  
**DATE** 2015-07-20

**DRAWN BY** PAI  
**APPROVED** DHS

**DRAWING NO.** CS0003

VP\PROJECTS\NPRP\1501-WASHINGTON SUITES\DESIGN SHEETS\CS0003 02.DWG PLOTTED: 7/20/2015 BY: MADEIRA BURDOLLA







NOTES

1. UNLESS OTHERWISE NOTED ON THIS SURVEY, LOCATIONS AND CONNECTIONS OF STORM AND SANITARY SEWER FACILITIES SHOWN HEREON ARE BASED ON OBSERVED FIELD EVIDENCE. AS-BUILT INFORMATION OF ACCESSIBLE STRUCTURES HAVE BEEN PROVIDED, IF OBTAINABLE.

2. WHILE REASONABLE CARE HAS BEEN TAKEN IN IDENTIFYING UNDERGROUND UTILITIES AND CONNECTIONS, THEY ARE APPROXIMATE AND BASED ON OBSERVABLE ABOVE GROUND FIELD FACILITIES AND/OR SUB-SURFACE UTILITY PAINT MARKINGS ONLY. THEREFORE, ACCURACY OF CONNECTIONS CANNOT BE GUARANTEED.

3. ADDITIONAL UTILITY FACILITIES AND/OR UNDERGROUND LINES MAY EXIST THAT WERE NOT EVIDENT OR IDENTIFIED. UTILITY PLANS NEED TO BE ACQUIRED AND COMPARED WITH THIS SURVEY PRIOR TO COMMENCING SITE DESIGN.

4. THIS SURVEY REPRESENTS FIELD CONDITIONS AS OF MARCH 29, 2013.

5. HORIZONTAL DATUM IS REFERENCED TO NAD83 (CORS) AND ESTABLISHED BY GPS OBSERVATIONS. VERTICAL DATUM IS REFERENCED TO NAVD 88 AND ESTABLISHED BY GPS OBSERVATIONS. BENCHMARK 1 ELEVATION = 165.91 AND IS DESCRIBED AS A STORM MANHOLE LOCATED ALONG WEST SIDE OF S. REYNOLDS ST. BENCHMARK 2 ELEVATION = 153.01 AND IS DESCRIBED AS A SANITARY MANHOLE NORTH OF THE ENTRANCE TO THE SITE IN THE EAST BOUND LANE OF S. REYNOLDS ST.

6. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, JEFFREY A. SMERALDO FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON MARCH 29, 2013; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

STORM SEWER PIPE TABLE						
ID	FROM STRUCTURE	INV OUT	TO STRUCTURE	INV IN	DIAMETER (in)	LENGTH (ft)
RD-14		150.61	CI-4	150.61	4"	HDPE
SD-1	DI-1	180.80	CI-2	182.22	18"	RCP
SD-2	CI-2	187.31	CI-3	184.36	15"	RCP
SD-3	CI-3	150.32	CI-4	147.38	15"	RCP
SD-4	CI-4A	149.56	CI-4	148.11	18"	RCP
SD-5	CI-4	145.59	CI-5	139.77	18"	RCP
SD-6	CI-5	139.49	CI-6	136.94	18"	RCP
SD-7	CI-4D	155.35	DI-4C	151.97	18"	RCP
SD-8	DI-4C	151.90	CI-4A	148.40	18"	RCP
SD-9	MH-7	131.00	CI-8	130.31	24"	RCP
SD-10	CI-8	130.47	CI-9	129.28	24"	RCP
SD-11	CI-7A	131.30	MH-7	131.13	24"	RCP
SD-12	CI-OFF SITE	131.67	CI-7A	131.67	21"	RCP
SD-13	CI-6A	136.71	MH-6B	134.97	15"	RCP
SD-15	DI-12	156.46	CI-11	156.87	4"	HDPE
SD-16		147.41	DI-10	147.41	15"	RCP
SD-17	DI-10	147.36	CI-11	146.76	15"	RCP
SD-18	CI-11	146.63	MH-11	UNKNOWN**	15"	RCP
SD-19	CI-6	135.84	MH-6B	133.09	24"	RCP
SD-20	MH-6B	132.72	MH-7	131.11	24"	RCP
SD-21	MH-11	UNKNOWN**	CI-6	138.45	15"	RCP
SD-39	CI-9	126.67	MH-13	127.15	24"	RCP
SD-40	MH-13	126.55	MH-14	115.23	30"	RCP
SD-41	CI-15	118.11	MH-14	117.74	15"	RCP
SD-42		127.22	MH-13	127.22	30"	RCP

STORM SEWER STRUCTURE TABLE				
ID	RIM ELEVATION	INV IN (FROM)	INV OUT (TO)	TYPE
CI-2	165.91	162.22 (18" RCP @ 23.35%) DI-1	157.31 (15" RCP) CI-3	#903 (4')
CI-3	163.81	154.36 (15" RCP @ 5.41%) CI-2	150.32 (15" RCP) CI-4	#901 (4')
CI-4	155.71	147.38 (15" RCP @ 3.35%) CI-3 146.11 (18" RCP @ 3.11%) CI-4A 150.61 (4" HDPE @ 0.00%)	145.59 (18" RCP) CI-5	#899 (4')
CI-4A	157.32	148.40 (18" RCP @ 4.59%) DI-4C	149.56 (18" RCP) CI-4	#897 (4')
CI-4D	165.22		155.35 (18" RCP) DI-4C	#891 (4')
CI-5	150.79	139.77 (18" RCP @ 2.66%) CI-4	139.49 (18" RCP) CI-6	#1232 (4')
CI-6	147.51	136.94 (18" RCP @ 2.67%) CI-5 138.45 (15" RCP @ 0.00%)	135.84 (24" RCP) MH-6B	#865 (4')
CI-6A	146.06		136.71 (15" RCP) MH-6B	#1230 (4')
CI-7A	137.98	131.67 (21" RCP @ 0.00%) CI-OFF SITE	131.30 (24" RCP) MH-7	#881 (4')
CI-8	136.69	130.31 (24" RCP @ 1.51%) MH-7	130.47 (24" RCP) CI-9	#875 ★
CI-9	135.11	129.28 (24" RCP @ 1.81%) CI-8	128.67 (24" RCP) MH-13	#867 (4')
CI-11	159.17	156.87 (4" HDPE @ -2.54%) DI-12 146.76 (15" RCP @ 0.85%) DI-10	146.63 (15" RCP)	#1790 (4')
CI-15	121.90		118.11 (15" RCP) MH-14	10057 (4')
CI-OFF SITE	139.92		131.67 (21" RCP) CI-7A	886 (4')
DI-1	186.60		180.80 (18" RCP) CI-2	#908 (???)
DI-4C	156.85	151.97 (18" RCP @ 2.93%) CI-4D	151.90 (18" RCP) CI-4A	#896 (???)
DI-10	156.99	147.41 (15" RCP @ 0.00%)	147.36 (15" RCP) CI-11	#1827 (???)
DI-12	157.51		156.46 (4" HDPE) CI-11	#1789 (???)
MH-7	137.70		131.00 (24" RCP) CI-8	#879 (4')
MH-13	133.04	127.15 (24" RCP @ 3.25%) CI-9 127.22 (30" RCP @ 0.00%)	126.55 (30" RCP) MH-14	10049 (4')
MH-14	121.54	115.23 (30" RCP @ 4.40%) MH-13 117.74 (15" RCP @ 3.39%) CI-15		10056 (4')
MH-6B	140.36	134.97 (15" RCP @ 2.31%) CI-6A 133.09 (24" RCP @ 11.94%) CI-6	132.72 (24" RCP) MH-7	#10031 (4')
MH-11 **	UNKNOWN	UNKNOWN 56" (15" RCP @ ???%) CI-11	UNKNOWN 160" (15" RCP) CI-6	

★ REVERSE FLOW WAS CAUGHT IN THE FIELD AND VERIFIED STANDING WATER OBSERVED (4)

★★ STRUCTURE INACCESSIBLE AT THE TIME OF SURVEY. LOCATION AND PIPE FOOTAGE CORRECTIONS BASED ON VIDEO INSPECTIONS BY OTHERS.

PARCEL CURVE TABLE					
CURVE #	RADIUS	DELTA	ARC LENGTH	TANGENT	CHORD LENGTH
C1	365.65'	026°25'19"	168.62'	85.84	167.13'
					N 41°24'31" E

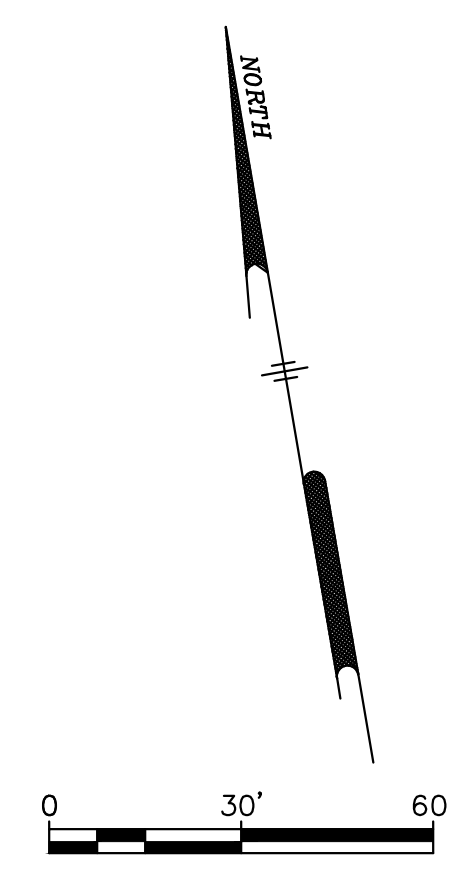
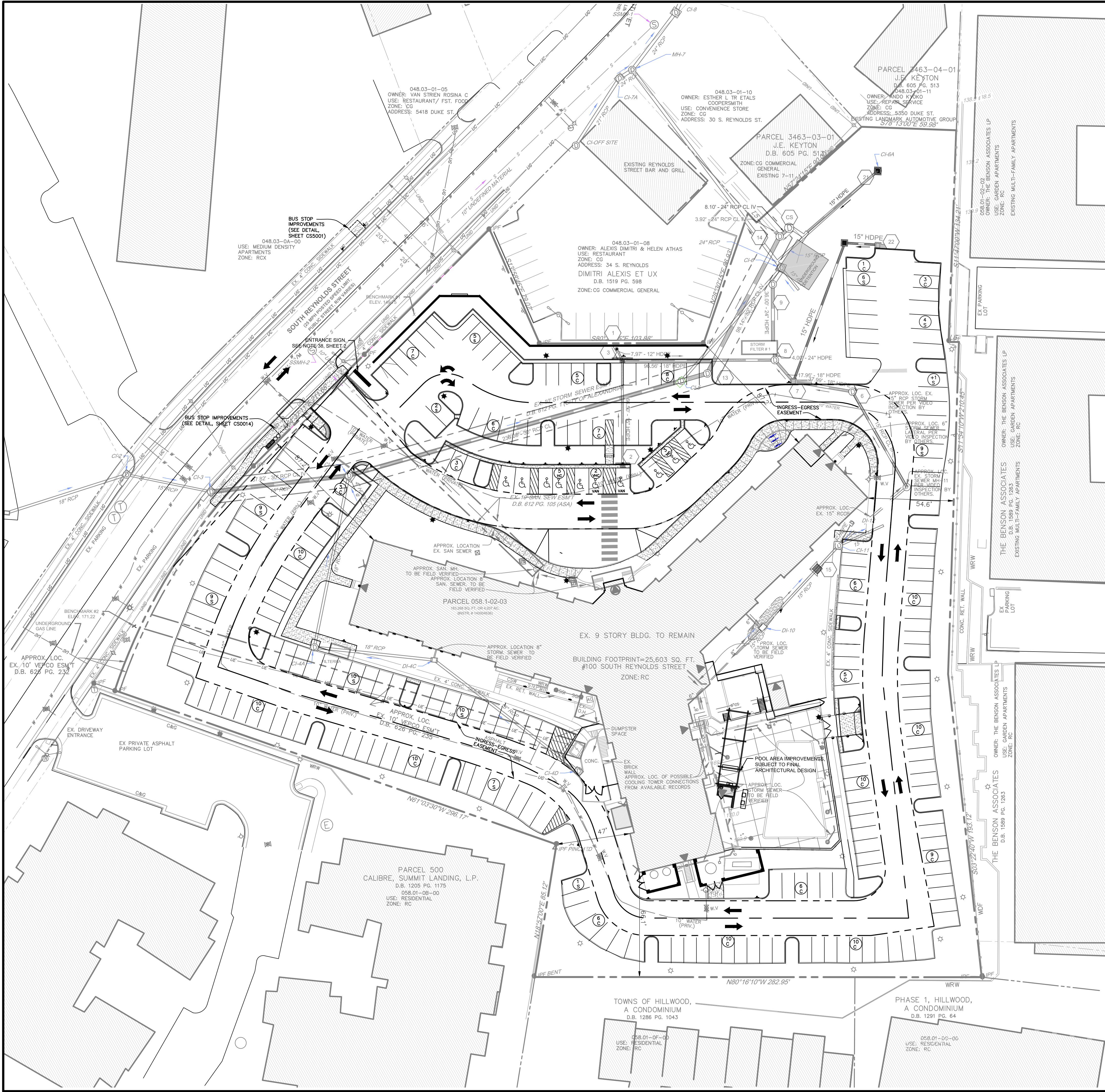
SANITARY SEWER STRUCTURE TABLE				
ID	RIM ELEVATION	INV IN (FROM)	INV OUT (TO)	TYPE
SSMH-1	136.77	128.37 (10" DIP W/CONC @ 4.23%) SSMH-2	128.15 (10" DIP W/CONC) SSMH-4	#877 (4')
SSMH-2	153.01	141.05 (10" UNDEFINED MATERIAL @ 0.00%)	141.01 (10" DIP W/CONC) SSMH-1	#887 (4')
SSMH-4	129.41	121.83 (10" DIP W/CONC @ 2.75%) SSMH-1	121.71 (10" DIP W/CONC) SSMH-5	#10003 (4')
SSMH-5	127.28	119.59 (10" DIP W/CONC @ 4.46%) SSMH-4	119.48 (10" DIP W/CONC) SSMH-6	#10004 (4')
SSMH-6	122.97	115.30 (10" DIP W/CONC @ 4.43%) SSMH-5	115.25 (10" DIP W/CONC) SSMH-7	#10005 (4')
SSMH-7	114.14	106.74 (10" DIP W/CONC @ 4.77%) SSMH-6	106.49 (10" DIP W/CONC) SSMH-8	#10006 (4')
SSMH-8	106.81	101.16 (8" PVC @ 0.00%) 101.16 (10" DIP W/CONC @ 2.01%) SSMH-7	101.12 (10" DIP W/CONC) SSMH-9	#10007 (4')
SSMH-9	106.70	100.30 (10" DIP W/CONC @ 2.86%) SSMH-8 100.80 (4" PVC @ 0.00%)	100.20 (10" DIP W/CONC) SSMH-10	#10008 (4')
SSMH-10	106.97	99.92 (10" DIP W/CONC @ 1.78%) SSMH-9 100.14 (8" PVC @ 0.00%)	99.87 (10" DIP W/CONC) SSMH-11	#10009 (4')
SSMH-11	104.90	98.85 (10" DIP W/CONC @ 0.49%) SSMH-10	98.85 (10" DIP W/CONC) SSMH-12	#10010 (4')
SSMH-12	99.87	95.90 (10" DIP W/CONC @ 3.86%) SSMH-11	94.53 (10" DIP W/CONC) SSMH-13	#10011 (4')
SSMH-13	102.66	93.77 (10" DIP W/CONC @ 0.62%) SSMH-12 94.18 (8" PVC @ 0.00%)	93.63 (10" DIP W/CONC) SSMH-14	#10012 (4')
SSMH-14	104.18	93.06 (10" DIP W/CONC @ 0.43%) SSMH-13 93.75 (8" DIP W/CONC @ 0.00%)	93.05 (10" DIP W/CONC) SSMH-15	#10013 (4')
SSMH-15	102.19	91.99 (10" DIP W/CONC @ 0.50%) SSMH-14 93.39 (10" DIP W/CONC @ 0.00%)	91.29 (12" DIP W/CONC) SSMH-16	#10014 (4')
SSMH-16	100.19	88.16 (12" DIP W/CONC @ 0.90%) SSMH-15 88.37 (10" DIP W/CONC @ 0.00%)	87.74 (12" DIP W/CONC) SSMH-17	#10015 (4')
SSMH-17	85.15	78.13 (12" DIP W/CONC @ 3.33%) SSMH-16 78.53 (8" UNDEFINED MATERIAL @ 0.00%)	78.09 (12" DIP W/CONC) SSMH-18	#10016 (4')
SSMH-18	86.69	73.88 (12" DIP W/CONC @ 2.54%) SSMH-17 74.95 (8" UNDEFINED MATERIAL @ 0.00%)	73.74 (14" DIP W/CONC) SSMH-19	#10017 (4')
SSMH-19	81.05	72.85 (14" DIP W/CONC @ 1.38%) SSMH-18	72.80 (18" DIP W/CONC) SSMH-20	#10018 (4')
SSMH-20	79.89	71.97 (18" DIP W/CONC @ 1.39%) SSMH-19 70.79 (10" DIP W/CONC @ 0.00%)	70.04 (18" DIP W/CONC) SSMH-21	#10019 (4')
SSMH-21	78.33	68.53 (18" DIP W/CONC @ 0.51%) SSMH-20 68.88 (8" UNDEFINED MATERIAL @ 0.00%)	68.50 (18" DIP W/CONC) SSMH-22	#10020 (4')
SSMH-22	76.90	66.65 (18" DIP W/CONC @ 0.62%) SSMH-21 67.30 (8" UNDEFINED MATERIAL @ 0.00%)	66.54 (18" DIP W/CONC) SSMH-23	#10021 (4')
SSMH-23	75.06	65.16 (18" DIP W/CONC @ 0.46%) SSMH-22 66.96 (12" DIP W/CONC @ 0.00%)	65.06 (18" DIP W/CONC) SSMH-24	#10023 (4')
SSMH-24	74.28	64.38 (18" DIP W/CONC @ 1.22%) SSMH-23	64.28 (18" DIP W/CONC) SSMH-25	#11001 (4')
SSMH-25	74.19	63.81 (18" DIP W/CONC @ 1.88%) SSMH-24	63.57 (18" DIP W/CONC) SSMH-26	#10137 (4')
SSMH-26	74.18	62.58 (18" DIP W/CONC @ 2.90%) SSMH-25	62.00 (18" DIP W/CONC) SSMH-27	#10138 (4')
SSMH-27	73.17	59.29 (18" DIP W/CONC @ 11.25%) SSMH-26 57.74 (20" DIP W/CONC @ 0.15%) SSMH-31	57.64 (36" UNDEFINED MATERIAL)	#10139 (4')
SSMH-31	73.21	55.01 (20" DIP W/CONC @ 0.00%)	57.78 (20" DIP W/CONC) SSMH-27	#11003 (4')

SANITARY SEWER PIPE TABLE							
ID	FROM STRUCTURE	INV OUT	TO STRUCTURE	INV IN	DIAMETER (in)	MATERIAL	LENGTH (ft)
SS-3		141.05	SSMH-2	141.05	10"	Undefined Material	50'
SS-4	SSMH-2	141.01	SSMH-1	128.37	10"	DIP w/Conc	299'
SS-5	SSMH-1	128.15	SSMH-4	121.83	10"	DIP w/Conc	229'
SS-6	SSMH-4	121.71	SSMH-5	119.58	10"	DIP w/Conc	48'
SS-7	SSMH-5	119.48	SSMH-6	115.30	10"	DIP w/Conc	94'
SS-8	SSMH-6	115.25	SSMH-7	106.74	10"	DIP w/Conc	178'
SS-9	SSMH-7	106.49	SSMH-8	101.16	10"	DIP w/Conc	265'
SS-10	SSMH-8	101.12	SSMH-9	100.30	10"	DIP w/Conc	29'
SS-11	SSMH-9	100.20	SSMH-10	99.92	10"	DIP w/Conc	16'
SS-12	SSMH-10	99.87	SSMH-11	98.85	10"	DIP w/Conc	189'
SS-13	SSMH-11	98.85	SSMH-12	95.90	10"	DIP w/Conc	76'
SS-14	SSMH-12	94.53	SSMH-13	93.77	10"	DIP w/Conc	122'
SS-15	SSMH-13	93.63	SSMH-14	93.06	10"	DIP w/Conc	133'
SS-16	SSMH-14	93.05	SSMH-15	91.99	10"	DIP w/Conc	213'
SS-17	SSMH-15	91.29	SSMH-16	88.16	12"	DIP w/Conc	349'
SS-18	SSMH-16	87.74	SSMH-17	78.13	12"	DIP w/Conc	289'
SS-19	SSMH-17	78.09	SSMH-18	73.88	12"	DIP w/Conc	166'
SS-20	SSMH-18	73.74	SSMH-19	72.85	14"	DIP w/Conc	65'
SS-21	SSMH-19	72.80	SSMH-20	71.97	18"	DIP w/Conc	60'
SS-22	SSMH-20	70.04	SSMH-21	68.53	18"	DIP w/Conc	297'
SS-23	SSMH-21	68.50	SSMH-22	66.65	18"	DIP w/Conc	300'
SS-24	SSMH-22	66.54	SSMH-23	65.16	18"	DIP w/Conc	300'

EXISTING TREE TABLE

TREE NUMBER	TREE SIZE DBH"	BOTANICAL NAME	COMMON NAME	COMMENTS	SAVE OR REMOVE TREE
10	2.5"	Prunus serrulata "kwanzan"	Kwanzan Flowering Cherry		To Be Removed
11	2.5"	Prunus serrulata "kwanzan"	Kwanzan Flowering Cherry		To Be Removed
12	3.5"	Lagerstroemia spp.	Crape Myrtle	Multi-stem	To Be Removed
13	3.5"	Lagerstroemia spp.	Crape Myrtle	Multi-stem	To Be Removed
14	4"	Lagerstroemia spp.	Crape Myrtle	Multi-stem	Save this Tree.
15	3.5"	Lagerstroemia spp.	Crape Myrtle	Multi-stem	Save this Tree.
16	3.5"	Lagerstroemia spp.	Crape Myrtle	Multi-stem	Save this Tree.
17	4"	Acer spp.	Dwarf Japanese Maple		To Be Removed
18	4"	Acer spp.	Dwarf Japanese Maple		To Be Removed
24	8"	x Cupressocyparis leylandii	Leyland Cypress		To Be Removed
25	8"	x Cupressocyparis leylandii	Leyland Cypress		To Be Removed
26	8"	x Cupressocyparis leylandii	Leyland Cypress		To Be Removed
27	8"	x Cupressocyparis leylandii	Leyland Cypress		To Be Removed
915	15"	Acer Rubrum	Red Maple		Save this Tree.
916	15"	Acer Rubrum	Red Maple		Save this Tree.
917	12"	Acer Rubrum	Red Maple		Save this Tree.
918	22"	Acer Rubrum	Red Maple		Save this Tree.
919	15"	Prunus serotina	BLACK CHERRY		To Be Removed
920	12"	Zelkova serrata	Zelkova		To Be Removed
921	9"	Zelkova serrata	Zelkova		To Be Removed
922	15"	Zelkova serrata	Zelkova		To Be Removed
969	9"	Acer Palmatum	Japanese Maple	twin	Save this Tree.
1234	10"	Zelkova serrata	Zelkova		To Be Removed
1235	10"	Prunus serrulata "kwanzan"	Kwanzan Flowering Cherry		To Be Removed
1236	6"	Prunus serrulata "kwanzan"	Kwanzan Flowering Cherry		To Be Removed
1237	15"	Prunus serrulata "kwanzan"	Kwanzan Flowering Cherry		To Be Removed
1238	13"	Acer Palmatum	Japanese Maple		To Be Removed
1239	13"	Acer Palmatum	Japanese Maple		Save this Tree.
1247	25"	Acer rubrum	Red Maple		To Be Removed
1248	15"	Pinus thunbergiana	Japanese Black Pine		To Be Removed
1249	6"	Pinus thunbergiana	Japanese Black Pine		To Be Removed
1250	15"	Robinia pseudoacacia	Black locust	Twin trunk	To Be Removed
1336	15"	Prunus serotina	Black Cherry		Save this Tree.
1337	8"	Sassafras albidum	Common Sassafras		Save this Tree.
1338	8"	Sassafras albidum	Common Sassafras		Save this Tree.
1339	15"	Prunus serotina	Black Cherry		Save this Tree.
1340	8"	Prunus serotina	Black Cherry		Save this Tree.
1341	12"	Robinia pseudoacacia	Black locust		Save this Tree.
1342	14"	Carya spp.	Hickory		Save this Tree.
1343	18"	Robinia pseudoacacia	Black locust		Save this Tree.
1344	20"	Acer Rubrum	Red Maple		Save this Tree.
1345	10"	Robinia pseudoacacia	Black locust		Save this Tree.
1361	15"	x Cupressocyparis leylandii	Leyland Cypress		Save this Tree.
1365	15"	x Cupressocyparis leylandii	Leyland Cypress		Save this Tree.
1392	20"	Prunus serotina	Black Cherry		Save this Tree.
1393	12"	Morus alba	Common Mulberry		Save this Tree.
1394	18"	Prunus serotina	Black Cherry		Save this Tree.
1460	15"	Pinus strobus	white Pine		Save this Tree.
1461	13"	Pinus strobus	white Pine		Save this Tree.
1463	19"	Pinus strobus	white Pine		Save this Tree.
1464	12"	Pinus strobus	white Pine		Save this Tree.
1490	13"	Robinia pseudoacacia	Black Locust		Save this Tree.
1577	12"	x Cupressocyparis leylandii	Leyland Cypress		Save this Tree.
1578	12"	x Cupressocyparis leylandii	Leyland Cypress		Save this Tree.
1579	12"	Pinus strobus	White Pine		Save this Tree.
1580	12"	Pinus strobus	White Pine		Save this Tree.
1581	12"	Pinus strobus	White Pine		Save this Tree.
1582	12"	Pinus strobus	White Pine		Save this Tree.
1583	12"	Pinus strobus	White Pine		Save this Tree.
1584	15"	Pinus strobus	White Pine		Save this Tree.
1668	12"	Pinus strobus	White Pine		Save this Tree.
1669	15"	Pinus strobus	White Pine		Save this Tree.
1670	15"	Pinus strobus	White Pine		Save this Tree.
1671	18"	Pinus strobus	White Pine		Save this Tree.





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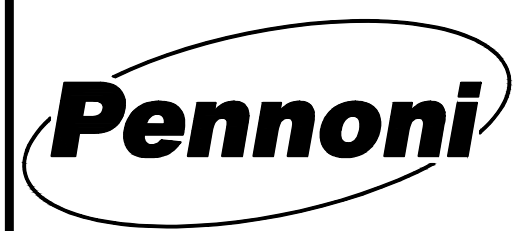
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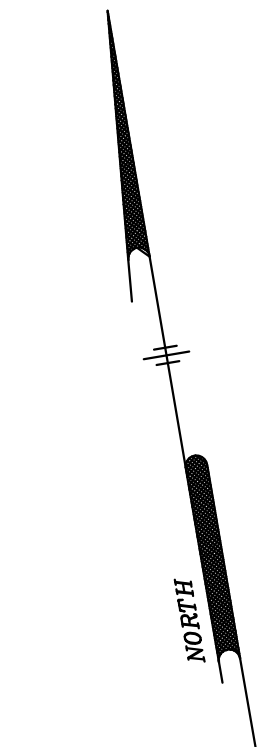
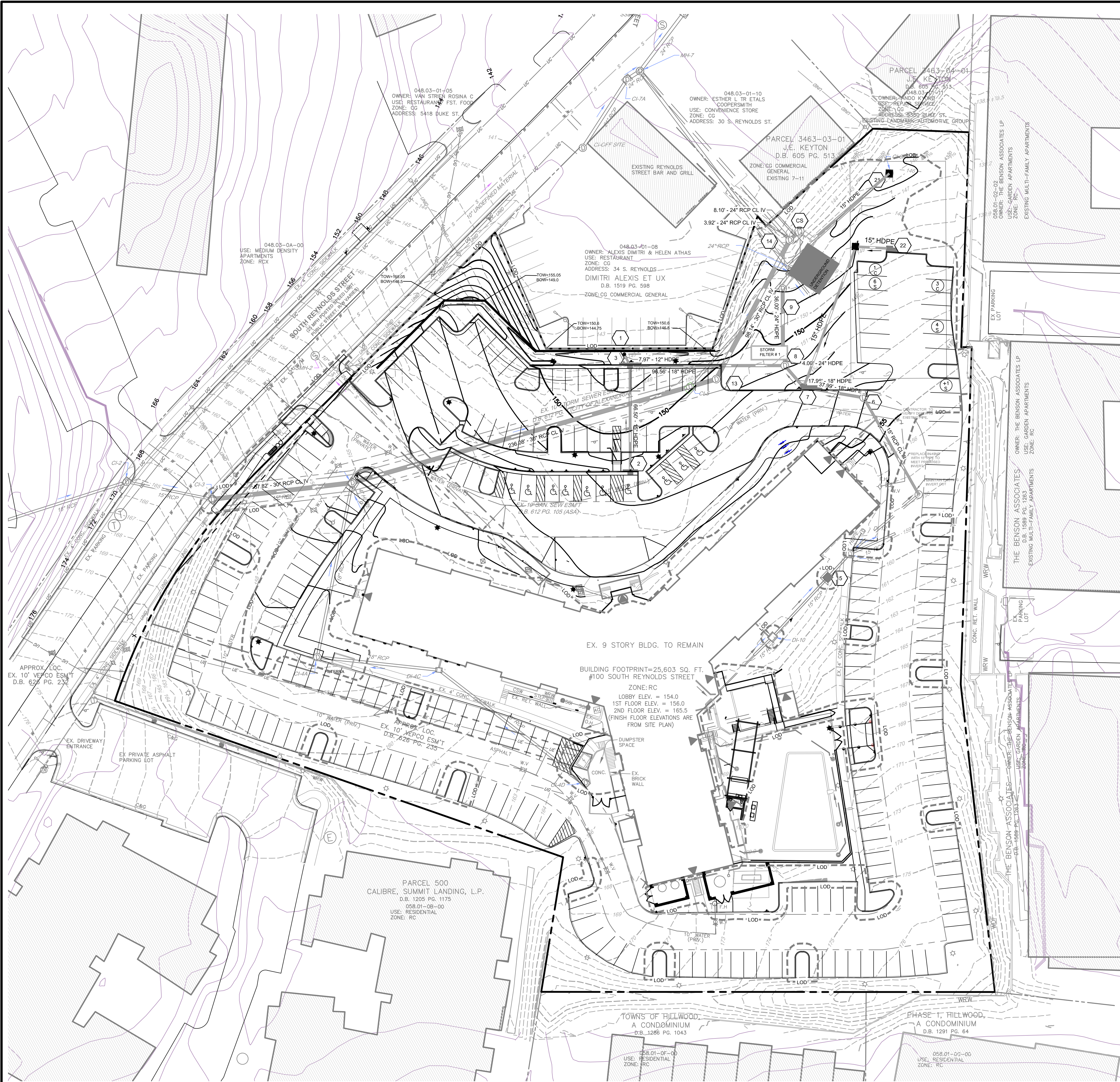
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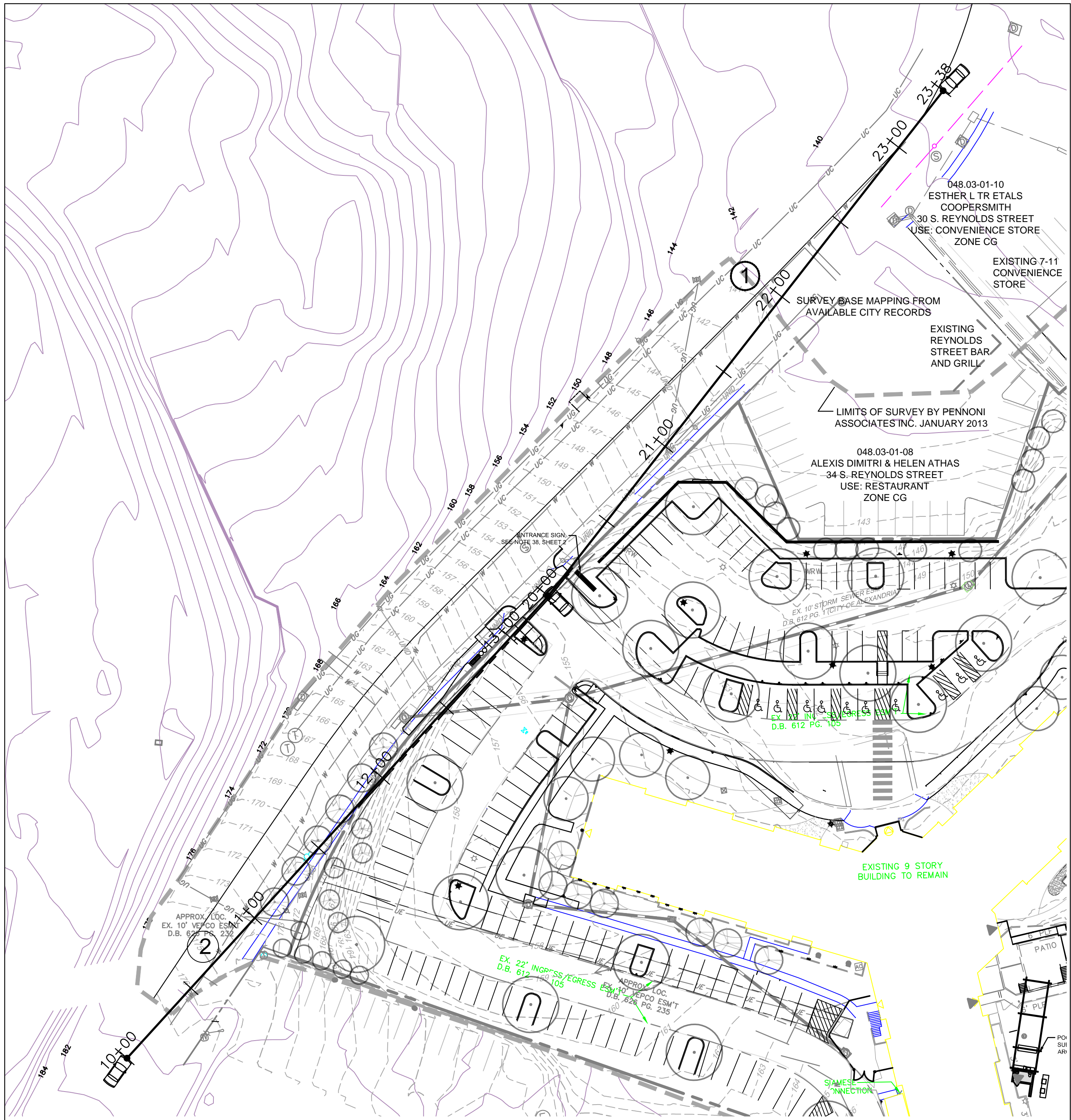
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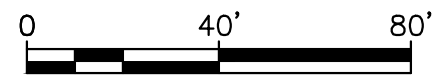
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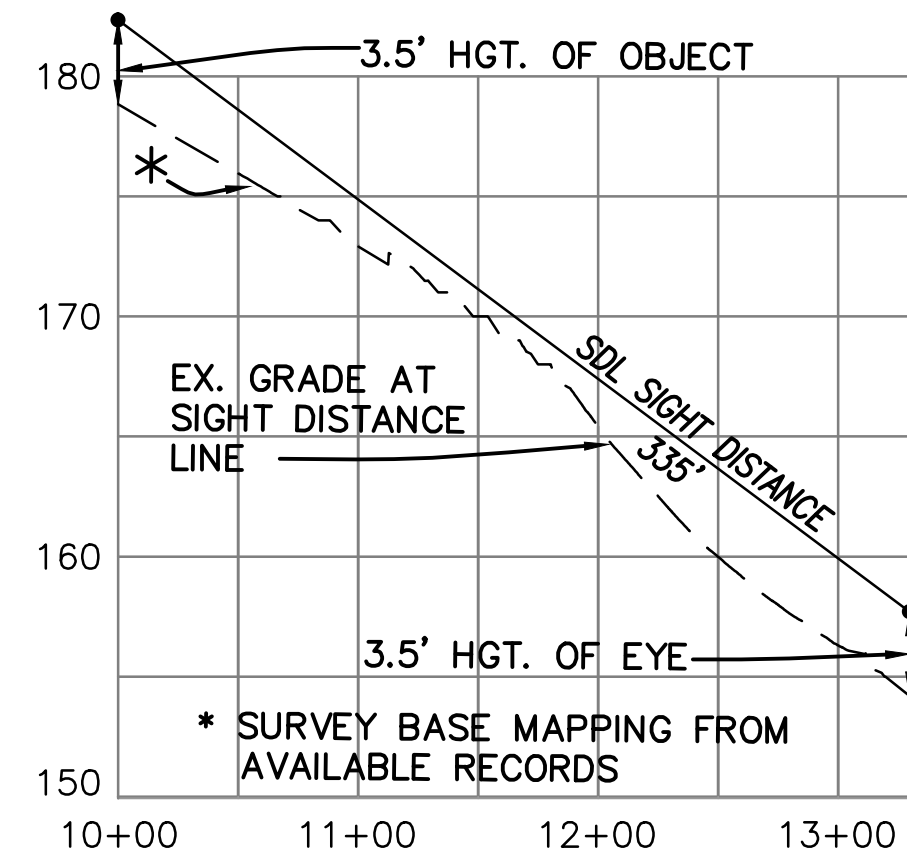


SIGHT DISTANCE PLAN  
SCALE: 1" = 40'



NOTES:

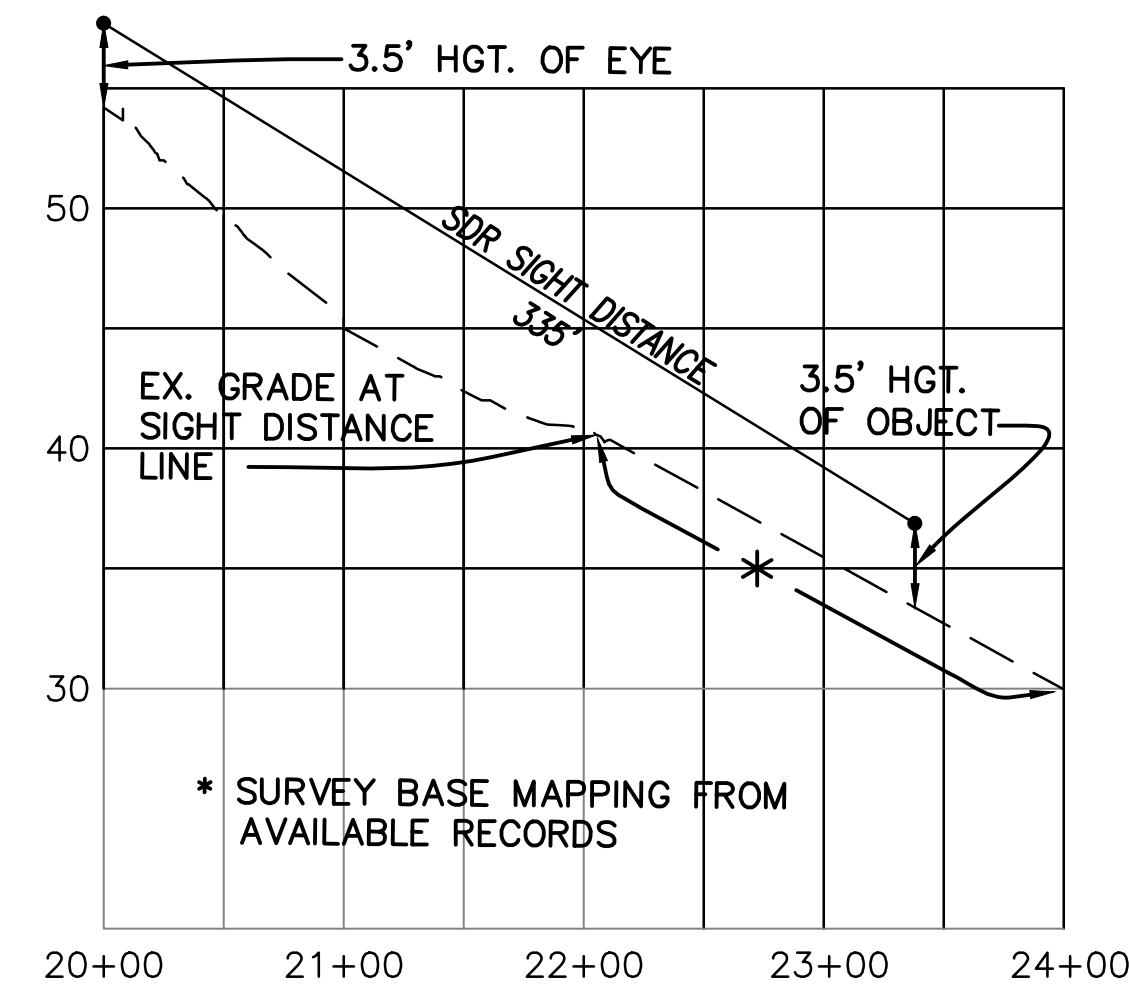
- ALL STREET TREES SHALL BE LIMBED UP TO 7' TO ALLOW FOR SIGHT DISTANCE.
- ON STREET PARKING WITHIN SIGHT DISTANCE SHALL BE ELIMINATED.



INTERSECTION SIGHT DISTANCE AT SITE ENTRANCE  
LOOKING RIGHT

DESIGN SPEED = 30 MPH  
POSTED SPEED = 25 MPH

SCALE: 1" = 80'



INTERSECTION SIGHT DISTANCE AT SITE ENTRANCE  
LOOKING LEFT

DESIGN SPEED = 30 MPH  
POSTED SPEED = 25 MPH

SCALE: 1" = 80'



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DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP 2015-0020

THE MARK  
100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA

SIGHT DISTANCE PLAN  
LANDMARK 100 SR, LLC  
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	PROJECT NO. NPRP1501
	SHEET 8 OF 22

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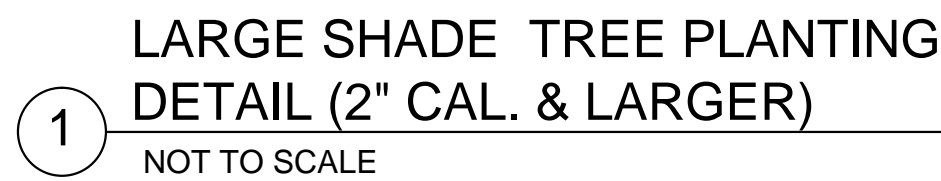
## General

- ## Installation

- ## Maintenance

- ## Tree Protection Notes

1. Tree Preservation work shall be under supervision of a professional Arborist. All Tree Preservation work shall meet or exceed industry standards as stated in most recently published standards by the International Society of Arboriculture (ISA), American National Standards Institute (ANSI), or National Arborist Association (NAA).
2. Prior to any construction activity, all trees shown to be preserved on the Landscape Plan shall be protected by tree protection fencing (see detail 5, this sheet), placed at the dripline of the trees to be preserved, or at the final limits of clearing and grading shown on the final approved site plan, whichever is at a greater distance from the trunk of the tree being preserved. The tree protection fencing shall have signs posted on it stating that it is a tree protection area and no entry is permitted. The Arborist shall inspect the installed tree protection fencing prior to any demolition or construction activity.
3. All construction activity beyond the limits of clearing and grading shown on the final approved site plan and Landscape Plan shall be prohibited unless previously approved by the City. Within the Tree Protection Areas, there shall be no storage of equipment or materials, no disposal of materials, nor any other disturbance or construction activity.
4. Arboricultural treatments that are recommended by the Arborist will be performed. These treatments may include root pruning, fertilization, and pruning of tree limbs.



Crown Coverage Required

TOTAL SITE AREA:	183,268 ± SF	
TOTAL CROWN COVERAGE REQUIRED:	45,817 SF	(25%)
TOTAL CROWN COVERAGE PROVIDED:		
AREA OF EXISTING TREES TO BE SAVED ON-SITE	7,770 SF	
PROPOSED TREE PLANTING	64,250 SF	
TOTAL PROVIDED	72,020 SF	(39.2%)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	UNIT TREE COVER	TREE QTY. ON-SITE	ON-SITE TREE COVER
<b>DECIDUOUS TREES</b>								
AF	8	Acer x fremanii 'Armstrong'	'Armstrong' Maple	2.5" cal.	Single stem, B&B or cont.,well-branched, matched specimens	500 S.F.	8	4,000 S.F.
QP	23	Quercus phellos	Willow Oak	2.5" cal.	Single stem, B&B or cont.,well-branched specimens	1,250 S.F.	23	28,750 S.F.
UA	15	Ulmus americana 'Princeton'	Princeton Elm	2.5" cal.	Single stem, B&B or cont.,well-branched, matched specimens	1,250 S.F.	15	18,750 S.F.
<b>ORNAMENTAL TREES</b>								
AA	5	Amelanchier arborea	Shad Blow Serviceberry	8' Ht.	Multi-Stem, B&B or cont.,well-branched specimens	250 S.F.	5	1,250 S.F.
LI	7	Lagerstroemia indica 'Natchez'	Natchez Crepe Myrtle	8' Ht.	Multi-Stem, B&B or cont.,well-branched specimens	250 S.F.	7	1,750 S.F.
PK	6	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	8' Ht.	Single-Stem, B&B or cont.,well-branched specimens	500 S.F.	0	0
<b>EVERGREEN TREES</b>								
IO	10	Ilex opaca	American Holly	8' ht.	B&B or cont.,well-branched, matched specimens	250 S.F.	10	2,500 S.F.
IN	20	Ilex x 'Nellie R. Stevens'	Nelle Stevens Holly	8' ht	B&B or cont.,well-branched, matched specimens	250 S.F.	19	4,750 S.F.
CL	3	Chamaecyparis lawsoniana 'Kilmacurragh'	Kilmacurragh False Cypress	4' ht.	B&B or cont.,well-branched, matched specimens			
JV	6	Juniperus virginiana 'Princeton Sentry'	Princeton Sentry Eastern Red Cedar	8' ht.	B&B or cont.,well-branched, matched specimens	250 S.F.	6	1,500 S.F.
PS	2	Pinus strobus	Eastern White Pine	8' ht.	B&B or cont.,well-branched, matched specimens	500 S.F.	2	1,000 S.F.
<b>SHRUBS</b>								
ND	37	Nandina domestica 'Harbor Dwarf'	Harbor Dwarf Heavenly Bamboo	18-24"	B&B or cont.,well-branched, dense			
IC	17	Ilex crenata 'Helleri'	Helleri Holly	15-18"	B&B or cont.,well-branched, dense			
PL	148	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Cherry Laurel	18-24"	B&B or cont.,well-branched, dense			
RP	91	Rhododendron 'PJM'	PJM Rhododendron	18-24"	B&B or cont.,well-branched, dense			
RK	72	Rosa x 'Radtko' Double Knock Out	Knock Out Rose	18-24"	B&B or cont.,well-branched, dense			
TB	100	Taxus baccata 'Repandens'	English Weeping Yew	18-24"	B&B or cont.,well-branched, dense			
<b>GROUND COVERS &amp; PERENNIALS</b>								
HS	440	Hemerocallis 'Stella D'Oro'	Yellow Daylily	1 gal	triangularly spaced 18" O.C.			
HU	230	Hosta undulata 'Alba Marginata'	Plantain Lily	1 gal	triangularly spaced 18" O.C.			
LM	4,425	Liriope muscari 'Big Blue'	Green Lilyturf	4" pots	triangularly spaced 12" O.C.			
NK	325	Narcissus 'King Alfred'	King Alfred Daffodil	Bulbs	triangularly spaced 10" O.C.			
PA	805	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	1 gal	triangularly spaced 24" O.C.			
RH	250	Rudbeckia hirta	Black Eyed Susan	1 gal	triangularly spaced 18" O.C.			

64,250 S.F.

[illegible]


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DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP 2015-0020

THE MARK  
'100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA

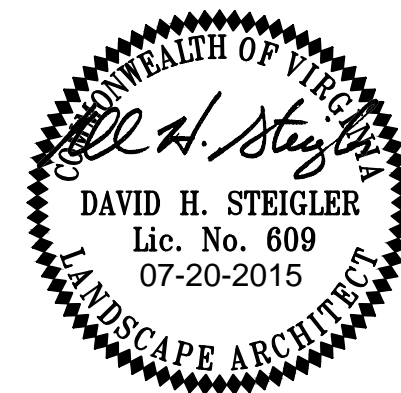
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	NPRP1501 SHEET 10 OF 22

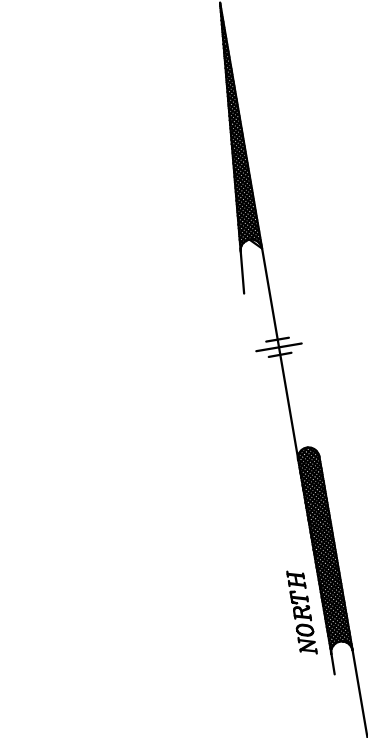
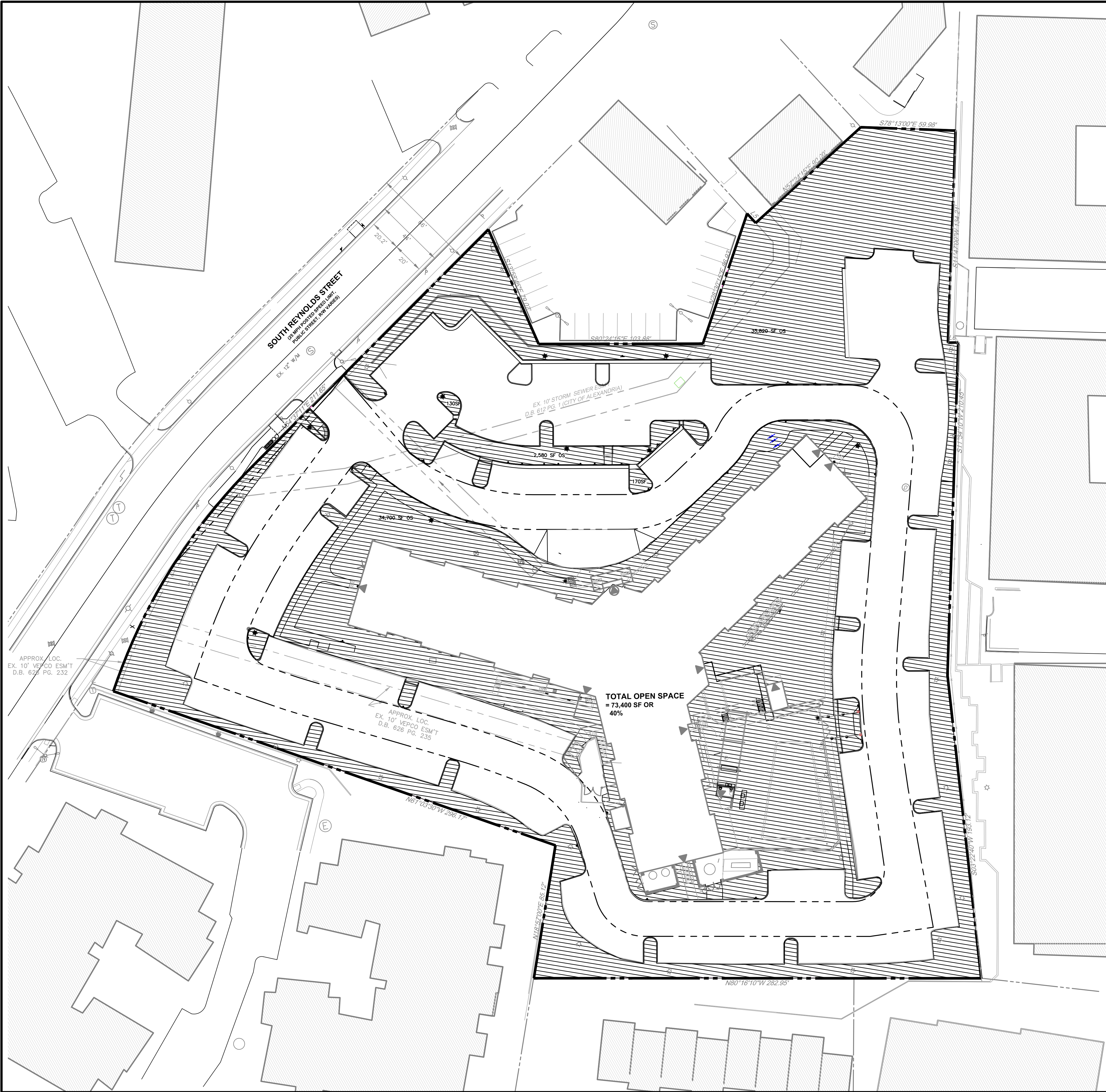
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PROJECT NO. NPRP1501	
SHEET 11 OF 22	
SCALE 1" = 30'	DATE 2015-07-20
DRAWN BY PAI	APPROVED DHS
DRAWING NO. CS0011	

THE MARK  
100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA

OPEN SPACE PLAN  
LANDMARK 100 SR, LLC  
c/o NORTHPOINT REALTY PARTNERS  
8210 WOODMONT AVENUE SUITE 410  
BETHESDA, MARYLAND 20814

DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP2015-0020

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR  
AND OWNER MUST BE NOTIFIED OF ANY  
DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

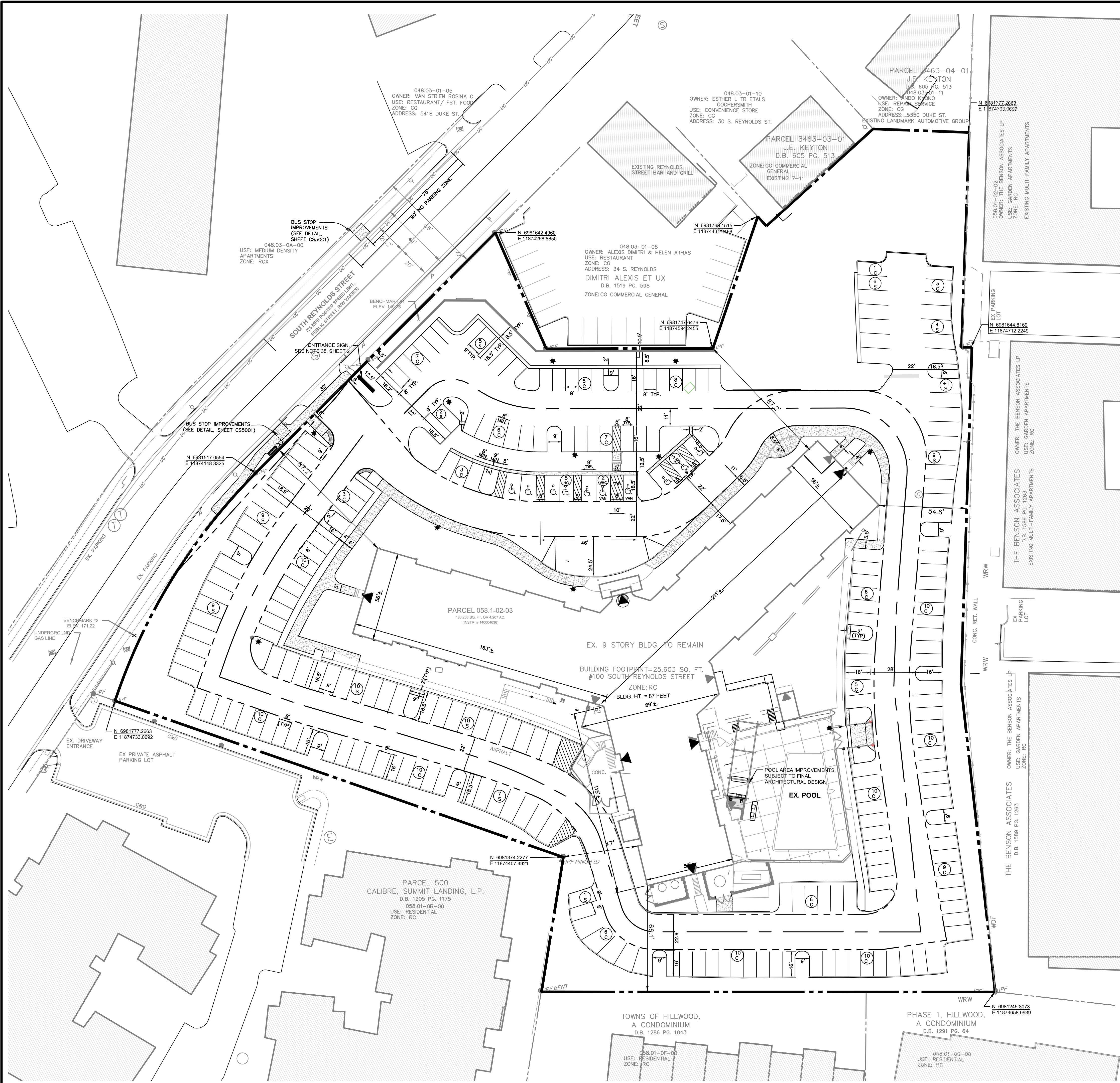
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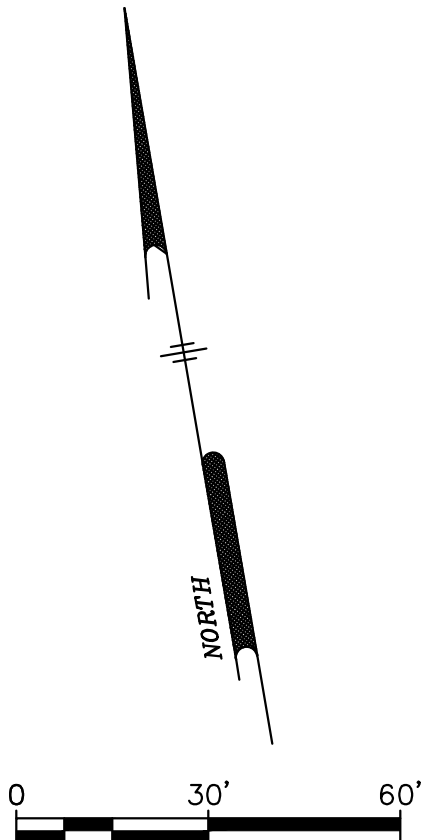
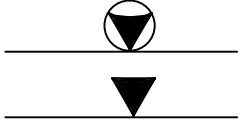
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PROJECT'S WPP# 1501 - WASHINGTON SUITES DESIGN SHEETS (CS0011) CS.DWG PLOTTED: 07-20-2015 BY: MARCELA BARDOLLA PLOTTING: PENNONI WGS.BT6 PROJECT STATUS: 000000





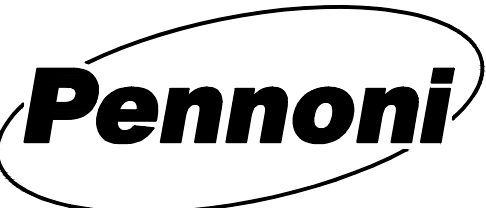
LEGEND:  
MAIN ACCESS  
DOOR



<b>APPROVED</b>	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. DSP2015 - 0020	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
DATE _____	
DATE RECORDED _____	
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PAGE NO. _____	



THE DIMENSIONS SHOWN ON THIS PLAN ARE INTENDED FOR INFORMATIONAL PURPOSES ONLY, AS PART OF THIS DSP SUBMISSION.



NO.	DATE	REVISIONS	BY

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DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP 2015-0020

THE MARK  
100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA

GIS DIMENSION PLAN  
LANDMARK 100 SR, LLC  
c/o NORTHPOINT REALTY PARTNERS  
8210 WOODMONT AVENUE SUITE 410  
BETHESDA, MARYLAND 20814

Pennoni Associates Inc.  
13980 Dulles Corner Lane, Herndon, VA 20171 703.449.6700

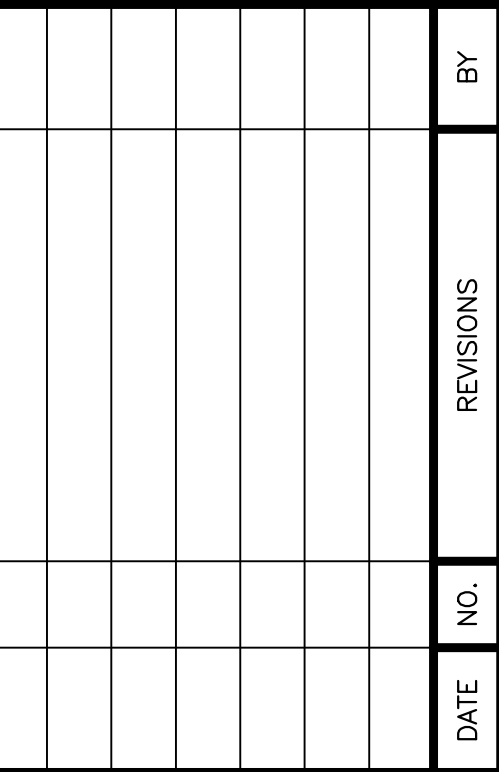
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	PROJECT NO.
	NPRP1501
	SHEET
12 OF 22	

SCALE	DATE
1" = 30'	2015-07-20
DRAWN BY	APPROVED
PAI	DHS
DRAWING NO.	

CS0012





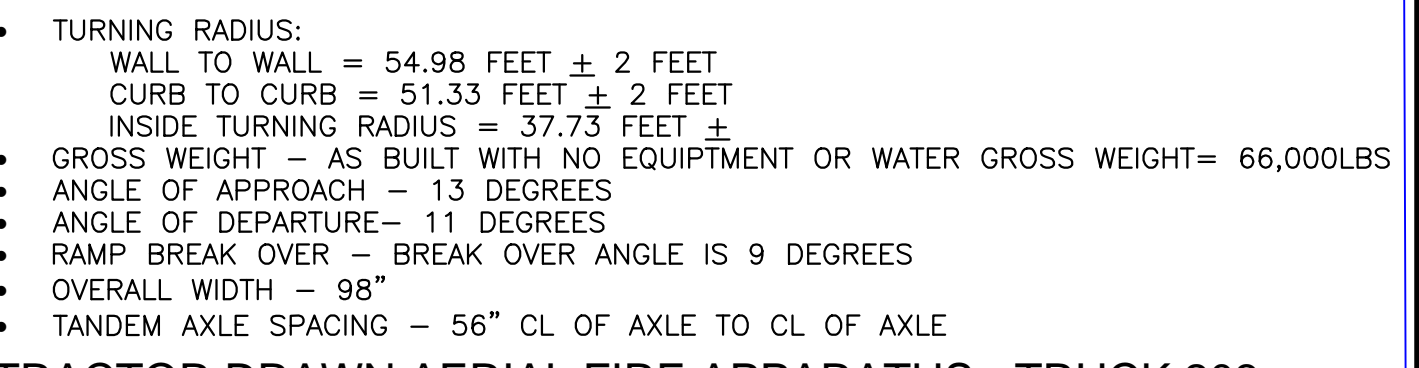
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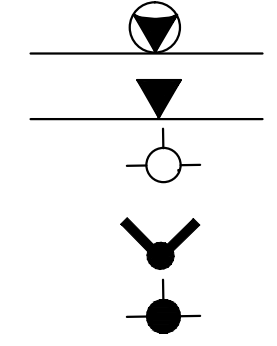
SCALE 1" = 30'	DATE 2015-07-20
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13880 Dulles Corner Lane, Herndon, VA 20171 703.449.6700



FIRE TRUCK TURNING DATA - PROVIDED BY ALEX. FIRE MARSHALL SCALE: 1"=10'

MAIN ACCESS  
DOOR  
EX. FIRE HYDRANT  
EX. FIRE DEPT. CONNECTION  
PROP. FIRE HYDRANT















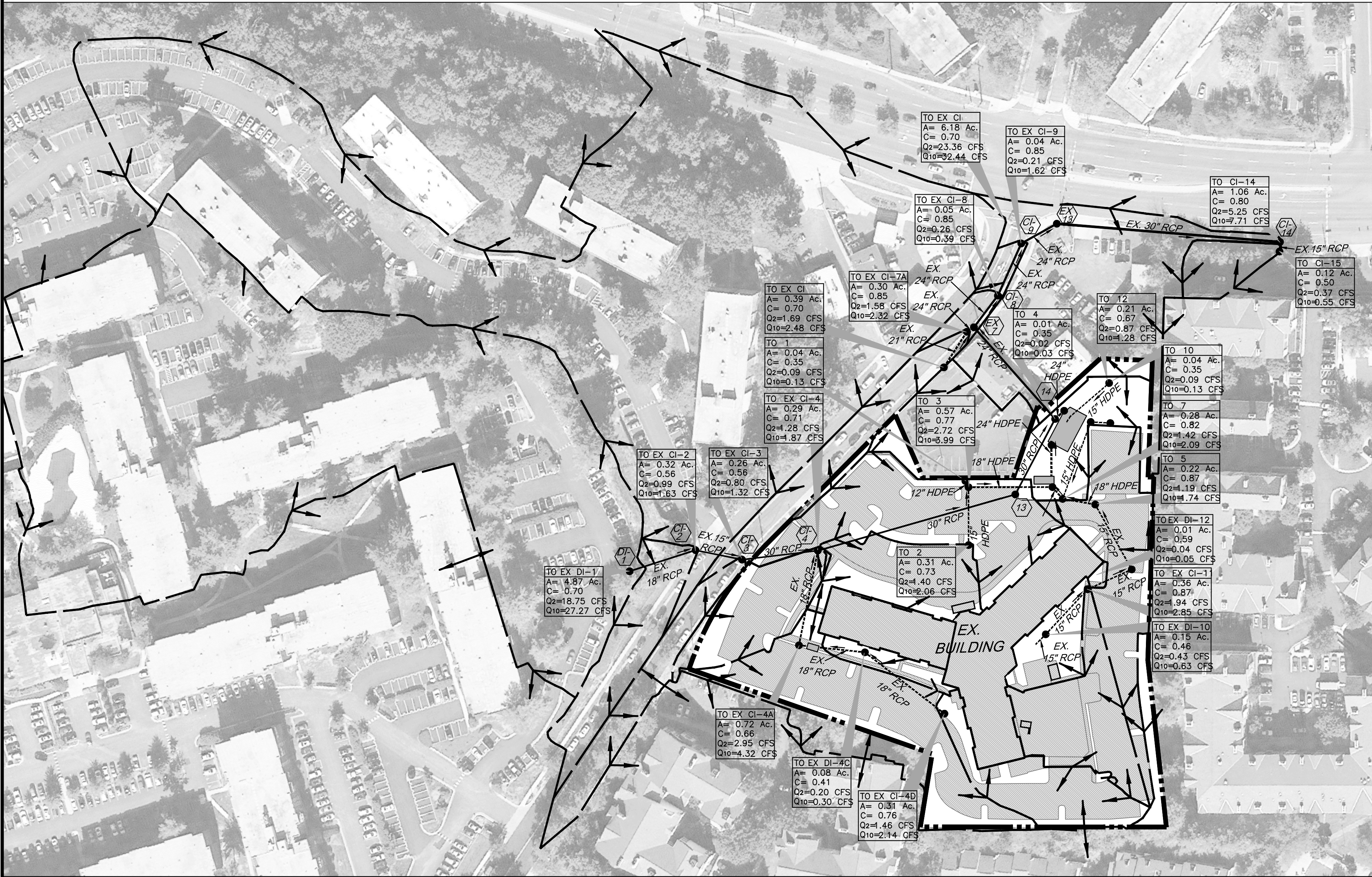






OUTFALL MAP

SCALE: 1" = 80'



HOLMES RUN STORM DRAIN MARKER  
N.T.S.

ALL ON-SITE STORM WATER CURB INLETS AND PUBLIC CURB INLETS LOCATED WITHIN 50 FEET OF THE PROPERTY LINE SHALL BE ONLY MARKED WITH THE ABOVE STANDARD CITY OF ALEXANDRIA MARKER.

RESOURCE PROTECTION AREA NOTE

THE SUBJECT PROPERTY DOES NOT LIE WITHIN THE CITY OF ALEXANDRIA RESOURCE PROTECTION AREA (RPA) AND THERE ARE NO MAPPED RPA'S ON THIS PROPERTY.

FLOOD PLAIN NOTE

THIS SITE DOES NOT LIE WITHIN 100-YEAR FLOOD PLAIN WATER SURFACE ELEVATION (WSE) PER THE DEMARCATION OF THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) PUBLISHED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

ENVIRONMENTAL SITE ASSESSEMENT

THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, TRIBUTARY STREAMS, FLOODPLAINS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, HIGHLY ERODIBLE/PERMEABLE SOILS OR BUFFER AREAS ASSOCIATED WITH SHORES, STREAMS, OR WETLANDS LOCATED ON THE SITE. FURTHER, THERE ARE NO WETLANDS PERMITS REQUIRED FOR THIS DEVELOPMENT PROJECT. ADDITIONALLY, THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS OR AREAS OF SOIL OR GROUNDWATER CONTAMINATION ON THE SITE.

THE CITY OF ALEXANDRIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, OFFICE OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL OR UNANTICIPATED CONTAMINATION OR UNDERGROUND STORAGE TANKS, DRUMS, AND CONTAINERS ARE ENCOUNTERED AT THE SITE. IF THERE IS ANY DOUBT ABOUT PUBLIC SAFETY OR A RELEASE TO THE ENVIRONMENT, THE ALEXANDRIA FIRE DEPARTMENT MUST BE CONTACTED IMMEDIATELY BY CALLING 911. THE TANK OR CONTAINER'S REMOVAL, ITS CONTENTS, ANY SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE, AND CITY REGULATIONS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:

- MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND
- SATURDAYS FROM 9 AM TO 6 PM
- NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS

PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS:

- MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM AND
- SATURDAYS FROM 10 AM TO 4 PM.

LEGEND

- PROPOSED ONSITE IMPERVIOUS AREA = 3.14 AC (136,778 SF)
- PROPOSED ONSITE PERVIOUS AREA = 1.07 AC (46,490 SF)
- SITE AREA = 4.21 AC (183,268 SF)

ADEQUATE OUTFALL ANALYSIS

EXISTING CONDITIONS

THE MARK (WASHINGTON SUITES) SITE IS LOCATED SOUTH OF THE INTERSECTION OF SOUTH REYNOLDS AND DUKE STREETS. IT WAS DEVELOPED IN 1966 AND OPERATED AS MULTI-FAMILY APARTMENTS WITH 219 UNITS. THE SITE IS FULLY DEVELOPED, WITH THE EXISTING BUILDING CURRENTLY USED AS A HOTEL, WITH SUPPORTING AMENITIES AND PAVED SURFACE PARKING. THE SITE DOES NOT CURRENTLY ADDRESS STORMWATER MANAGEMENT REQUIREMENTS.

PROPOSED IMPROVEMENTS

THIS APPLICATION PROPOSES TO CONVERT THE USE OF THE BUILDING FROM ITS PRESENT HOTEL USE BACK TO ITS ORIGINALLY APPROVED 219 MULTIFAMILY UNITS. NEW SITE IMPROVEMENTS ARE PROPOSED TO BRING THE SITE INTO CLOSER COMPLIANCE WITH CURRENT STANDARDS FOR PARKING, LANDSCAPING, AND OPEN SPACE. IMPROVEMENTS TO INCREASE PARKING WILL INCREASE IMPERVIOUS COVER ON THE NORTHERN PORTIONS OF THE SITE. IMPROVEMENTS TO ADD LANDSCAPING AREAS WILL SERVE TO REDUCE IMPERVIOUS COVER IN THE SOUTHERN PORTIONS OF THE SITE.

THE MARK (WASHINGTON SUITES) SITE FALLS WITHIN THE CAMERON RUN DRAINAGE SHED. SITE RUNOFF FLOWS NORTHWARD THROUGH AN EXISTING STORM SEWER SYSTEM THAT RUNS ALONG SOUTH REYNOLDS STREET, CROSSES DUKE STREET THROUGH DENSE RESIDENTIAL NEIGHBORHOODS, AND FINALLY OUTFALLS TO HOLMES RUN STREAM. UNDERSTANDING THAT THE PRESENT SITE IS FULLY DEVELOPED AT THIS TIME, AND WITHOUT STORMWATER MANAGEMENT MEASURES, THE INTENT OF THIS APPLICATION IS TO PROVIDE ON-SITE STORMWATER MANAGEMENT FOR WATER QUANTITY AND QUALITY TO ACCOUNT FOR INCREASED RUNOFF RESULTING FROM THE PROPOSED SITE IMPROVEMENTS, IN GENERAL CONFORMANCE WITH THE REQUIREMENTS OF ARTICLE XIII OF THE CITY ORDINANCE.

FACTS AND FINDINGS BASED ON CITY GIS TOPO, SURVEY AND FIELD OBSERVATIONS

THERE IS AN EXISTING STORM DRAINAGE SYSTEM THAT RECEIVES SIGNIFICANT AMOUNT OF RUNOFF FROM THE CONDOMINIUM DEVELOPMENT TO THE SOUTHWEST. PRIOR TO DEVELOPMENT, THE EXISTING DRAINAGE SYSTEM CI-3 TO CI-6 TO CI-6B TO MH 7 TO CI-8 TO CI-9 IS INADEQUATE TO CARRY THE 10 YR OFFSITE RUNOFF EVEN WITHOUT RUNOFF CONTRIBUTION FROM THE WASHINGTON SUITES RESIDENCES SITE. SEE OUTFALL MAP ON THE LEFT FOR HYDROLOGY PARAMETERS THAT CONTRIBUTE RUNOFF TO THE SYSTEM.

CITY OF ALEXANDRIA OUTFALL ANALYSIS CRITERIA

IF AN ADEQUATE OUTFALL IS NOT PRESENT

THE HYDROLOGIC AND HYDRAULIC COMPUTATIONS DEMONSTRATE THE NON-AVAILABILITY OF AN ADEQUATE STORM WATER OUTFALL FOR POST DEVELOPMENT CONDITIONS; THEREFORE, THE SITE HAS BEEN DEVELOPED NOT TO INCREASE THE POST DEVELOPMENT PEAK RUNOFF RATE FROM THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR A TWO-YEAR AND TEN YEAR STORM CONSIDERED INDIVIDUALLY PER THE REQUIREMENTS OF ARTICLE 13-109(F)(1) OF ALEXANDRIA ZONING ORDINANCE.

IN ADDITION TO NOT INCREASING THE POST DEVELOPMENT PEAK RUNOFF RATE FROM THE PRE DEVELOPMENT CONDITIONS, A COMBINATION OF CHANNEL IMPROVEMENTS, STORMWATER DETENTION OR OTHER MEASURES HAVE BEEN DESIGNED TO PROVIDE AN ADEQUATE OUTFALL TO THE SATISFACTION OF THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES. THESE IMPROVEMENTS SHALL PRODUCE NON EROSION VELOCITIES IN THE PROPOSED IMPROVEMENTS AND THE EXISTING SYSTEM. THE PROPOSED IMPROVEMENTS ARE NOT CONSTRUCTED IN THE PUBLIC RIGHT OF WAY.

ANALYSIS

GIVEN THE ABOVE FACTS, THE PROPOSED SITE CONDITIONS IMPROVE THE EXISTING OUTFALL FOR THE FOLLOWING REASONS:

- THE EXTENT OF THIS OUTFALL ANALYSIS WAS CHASED TO AN EXISTING 30" RCP STORM SEWER THAT RUNS WEST EAST AS SHOWN ON THE OUTFALL MAP TO THE RIGHT.
- THE POST-DEVELOPED PEAK RUNOFF RELEASED FROM THE SITE IS LESS THAN THE PRE-DEVELOPED PEAK FOR BOTH THE 2 YR AND 10 YR STORMS. THE PROPOSED STORMWATER MANAGEMENT FACILITY PROVIDES EXCESS DETENTION BY MORE THAN 10% IN ORDER TO COMPENSATE FOR THE INEDEDUQUACY OF THE OUTFALL. FOR SWM DESIGN, SEE SHEETS CS5009-CS5012.
- THE ONSITE PUBLIC DRAINAGE SYSTEM HAS BEEN UPGRADED TO CARRY THE BYPASS OFFSITE FLOW AS WELL AS HANDLE THE 10-YR RUNOFF. PER DISCUSSION WITH THE CITY, THESE PIPES HAVE BEEN OVERSIZED TO 30" TO PROVIDE AN ADDITIONAL DETENTION EFFECT AS REQUESTED BY THE CITY. FOR STORM PIPE CALCULATIONS AND HYDRAULIC GRADE LINE CALCULATIONS, SEE SHEETS CS2101-CS2102.
- THE 2-YR HYDRAULIC GRADE LINE ALONG THE OUTFALL DRAINAGE SYSTEM IS AT LEAST 2 FT BELOW THE RIM OF ALL INLETS/MANHOLES, SEE SHEET HYDRAULIC GRADE LINE COMPUTATIONS ON SHEET CS2102.

FOR STORM PIPE CALCULATIONS AND HYDRAULIC GRADE LINE CALCULATIONS, SEE SHEET CS2102. FOR POST DEVELOPMENT DRAINAGE DIVIDES, SEE SHEET CS5009. FOR SWM DESIGN, SEE SHEETS CS5009-CS5012.

IT IS ALSO IMPORTANT TO NOTE THAT THE DOWNSTREAM DRAINAGE SYSTEM FROM THE SITE ON PRIVATE PROPERTIES AND PUBLIC RIGHT-OF-WAY IS NOT ADEQUATE GIVEN THE PIPES FLAT SLOPES. GIVEN THAT DESCRIBED ABOVE, IT IS THE ENGINEER'S OPINION THAT THE PROPOSED DESIGN IS A BETTERMENT TO THE CURRENT OUTFALL CONDITIONS.



<b>APPROVED</b>	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. DSP2015 - 0020	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
DATE _____	
DATE RECORDED _____	
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____	



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DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP 2015-0020

THE MARK  
100 S. REYNOLDS STREET  
ALEXANDRIA, VIRGINIA  
STORMWATER MANAGEMENT PLAN  
WATER QUANTITY MAPS AND COMPS  
LANDMARK 100 SR, LLC  
c/o NORTHPOINT REALTY PARTNERS  
8210 WOODMONT AVENUE SUITE 410  
BETHESDA, MARYLAND 20814

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PROJECT NRP NPRP1501	SHEET 18 OF 22

SCALE AS SHOWN	DATE 2015-07-20
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DRAWING NO. CS0018	

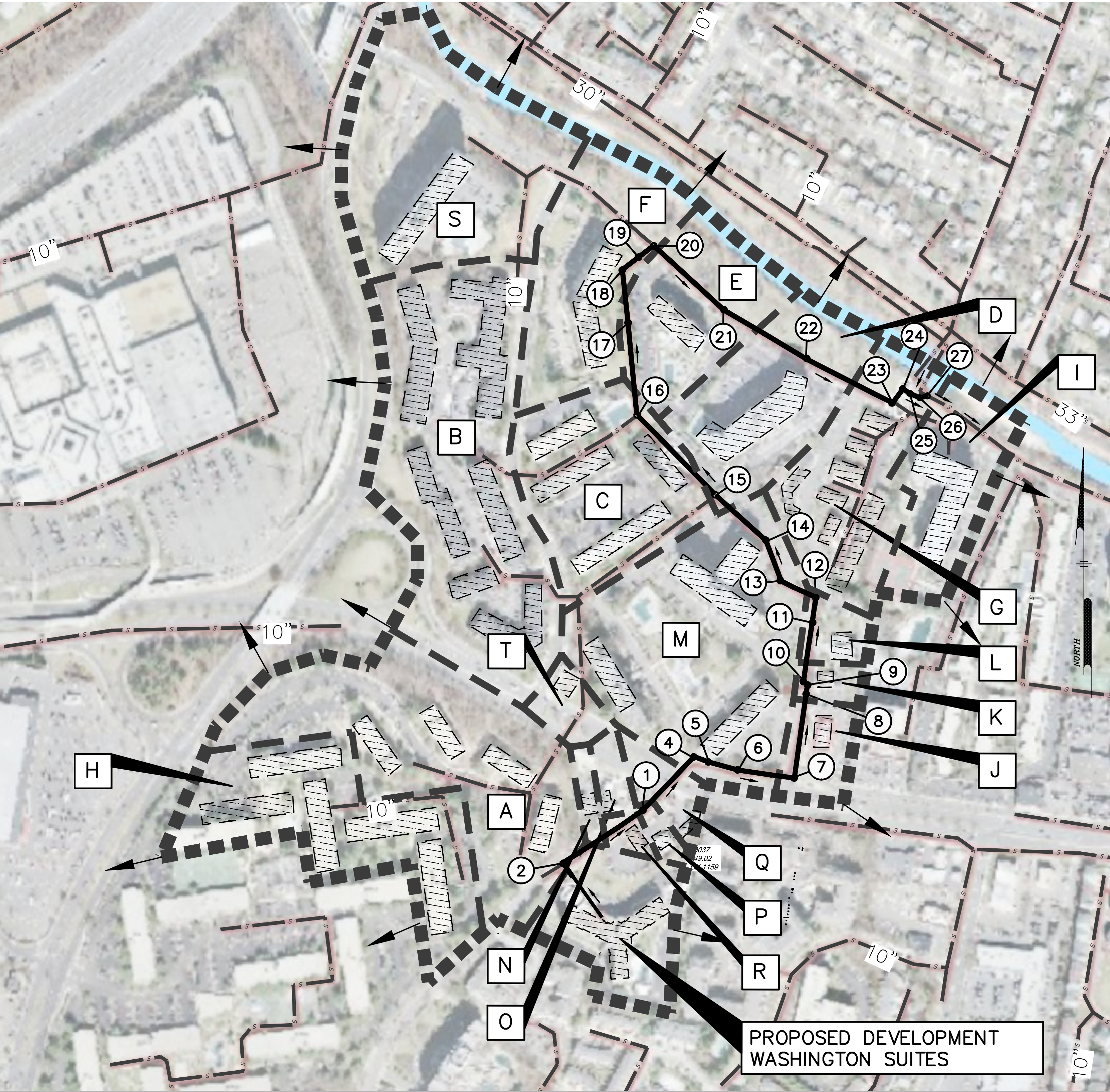
Pennoni Associates Inc.  
13880 Dulles Corner Lane, Herndon, VA 20171 703.449.6700



SANITARY SEWER ADEQUATE OUTFALL COMPUTATIONS

RESIDENTIAL							OFFICE				RETAIL					PEAK FLOW				PIPE DESIGN						REMARKS	
MANHOLE NO. FR.	TO	GFA (SF)	DWELLING UNITS (DU)	300 GPD/ UNIT AVE FLOW (GPD)	INCR. RES. FLOW (MGD)	TOTAL RES. FLOW (MGD)	GFA (SF)	200 GPD/ 1000 SQ. FT. (NET FLOOR AREA) AVE FLOW (GPD)	INCR. OFF. FLOW (MGD)	TOTAL OFFICE FLOW (MGD)	GFA (SF)	200 GPD/ 1000 SQ. FT. (NET FLOOR AREA) AVE FLOW (GPD)	INCR. RET. FLOW (MGD)	TOTAL RETAIL FLOW (MGD)	INCR. OFF & RET. FLOW (MGD)	TOTAL OFF & RET. FLOW (MGD)	COMBINED FLOW (MGD)	PEAK FACTOR	PEAK FLOW (MGD)	LENGTH (FT)	SLOPE (%)	DIAMETER (IN)	CAPACITY (MGD)	VELOCITY (FPS)	DEPTH (IN)		
SSMH-2	SSMH-1	211596	227	300 X 227 = 68,100	0.068	0.068			0.000	0.000			0.000	0.000	0.000	0.000	0.068	4.0	0.272	299.00	4.23	10	2.531	7.18	2.22	4.70	
SSMH-1	SSMH-4				0.000	0.068			0.000	0.000	11,014	200 X 0.85 X	0.002	0.002	0.002	0.002	0.070	4.0	0.280	229.00	2.75	10	2.041	5.79	2.21	4.06	
SSMH-4	SSMH-5				0.000	0.068			0.000	0.000			0.000	0.002	0.000	0.002	0.070	4.0	0.280	48.00	4.46	10	2.599	7.37	2.22	4.82	
SSMH-5	SSMH-6				0.000	0.068			0.000	0.000			0.000	0.002	0.000	0.002	0.070	4.0	0.280	94.00	4.43	10	2.590	7.35	2.23	4.81	
SSMH-6	SSMH-7				0.000	0.068			0.000	0.000			0.000	0.002	0.000	0.002	0.070	4.0	0.280	178.00	4.77	10	2.688	7.62	2.19	4.94	
SSMH-7	SSMH-8				0.000	0.068			0.000	0.000			0.000	0.002	0.000	0.002	0.070	4.0	0.280	265.00	2.01	10	1.745	4.95	2.71	3.63	
SSMH-8	SSMH-9				0.000	0.068			0.000	0.000	5,056	200 X 0.85 X	0.001	0.003	0.001	0.003	0.071	4.0	0.283	29.00	2.86	10	2.081	5.90	2.50	4.13	
SSMH-9	SSMH-10				0.000	0.068			0.000	0.000	2,146	200 X 0.85 X	0.000	0.003	0.000	0.003	0.071	4.0	0.285	16.00	1.78	10	1.642	4.66	2.82	3.49	
SSMH-10	SSMH-11		187	300 X 187 = 56,100	0.056	0.124			0.000	0.000			0.000	0.003	0.000	0.003	0.127	4.0	0.509	189.00	0.49	10	0.861	2.44	5.51	2.54	
SSMH-11	SSMH-12				0.000	0.124	12,786	200 X 0.85 X	0.002	0.002			0.000	0.003	0.002	0.005	0.129	4.0	0.518	76.00	3.88	10	2.424	6.88	3.14	5.47	
SSMH-12	SSMH-13				0.000	0.124			0.000	0.002			0.000	0.003	0.000	0.005	0.129	4.0	0.518	122.00	0.62	10	0.969	2.75	5.21	2.80	
SSMH-13	SSMH-14				0.000	0.124			0.000	0.000			0.000	0.003	0.000	0.005	0.129	4.0	0.518	133.00	0.43	10	0.807	2.29	5.81	2.43	
SSMH-14	SSMH-15		271	300 X 271 = 81,300	0.081	0.206			0.000	0.002			0.000	0.003	0.000	0.005	0.211	4.0	0.843	213.00	0.50	10	0.870	2.47	7.87	2.81	
SSMH-15	SSMH-16		853	300 X 853 = 255,900	0.256	0.461	2,520	200 X 0.85 X	0.000	0.003			0.000	0.003	0.000	0.006	0.467	4.0	1.868	349.00	0.90	12	1.898	3.74	9.60	4.26	
SSMH-16	SSMH-17		269	300 X 269 = 80,700	0.081	0.542			0.000	0.003			0.000	0.003	0.000	0.006	0.548	4.0	2.191	289.00	3.33	12	3.652	7.19	6.68	7.51	
SSMH-17	SSMH-18		152	300 X 152 = 45,600	0.046	0.588			0.000	0.003			0.000	0.003	0.000	0.006	0.593	4.0	2.374	166.00	2.54	12	3.189	6.28	7.66	6.87	
SSMH-18	SSMH-19		152	300 X 152 = 45,600	0.046	0.633			0.000	0.003			0.000	0.003	0.000	0.006	0.639	4.0	2.556	65.00	1.37	14	3.533	5.11	8.84	5.57	
SSMH-19	SSMH-20				0.000	0.633			0.000	0.003			0.000	0.003	0.000	0.006	0.639	4.0	2.556	60.00	1.38	18	6.931	6.07	7.59	5.62	
SSMH-20	SSMH-21		444	300 X 444 = 133,200	0.133	0.767			0.000	0.003			0.000	0.003	0.000	0.006	0.772	4.0	3.069	297.00	0.51	18	4.213	3.69	11.48	4.03	
SSMH-21	SSMH-22		159	300 X 159 = 47,700	0.048	0.814			0.000	0.003			0.000	0.003	0.000	0.006	0.820	4.0	3.280	300.00	0.62	18	4.645	4.07	11.19	4.41	
SSMH-22	SSMH-23		284	300 X 284 = 85,200	0.085	0.899			0.000	0.003			0.000	0.003	0.000	0.006	0.905	4.0	3.620	300.00	0.46	18	4.001	3.50	13.48	3.97	
SSMH-23	SSMH-24		332	300 X 332 = 99,600	0.100	0.999			0.000	0.003			0.000	0.003	0.000	0.006	1.005	4.0	4.019	56.09	1.22	18	6.518	5.71	10.28	6.01	
SSMH-24	SSMH-25				0.000	0.999			0.000	0.003			0.000	0.003	0.000	0.006	1.005	4.0	4.019	25.65	1.88	18	8.089	7.08	8.98	7.08	
SSMH-25	SSMH-26				0.000	0.999			0.000	0.003			0.000	0.003	0.000	0.006	1.005	4.0	4.019	34.14	2.90	18	10.047	8.80	7.96	8.33	
SSMH-26	SSMH-27				0.000	0.999			0.000	0.003			0.000	0.003	0.000	0.006	1.005	4.0	4.019	24.08	11.25	18	19.788	17.33	5.50	13.58	

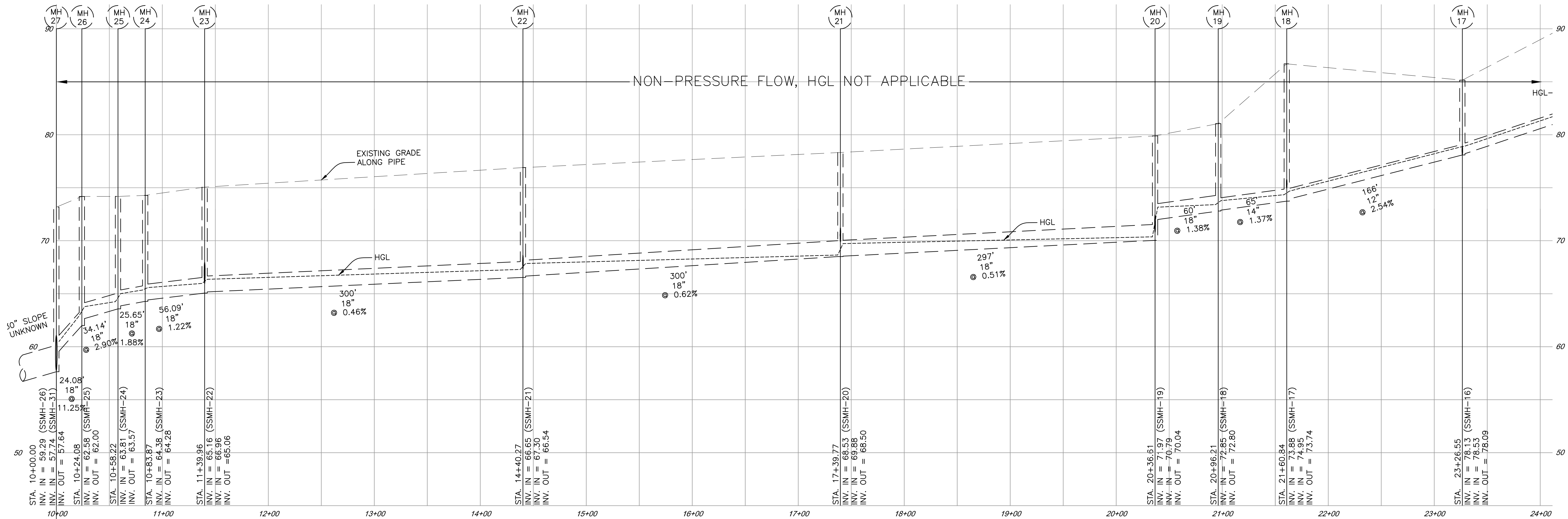
SANITARY SEWER SHED OVERALL MAP



HGL COMPUTATIONS

INLET NUMBER	Outlet Water		JUNCTION LOSS																Inlet Water		Rim Elev.	WSE Distance to Rim
	Surface Elev.	D <sub>i</sub>	Q <sub>0</sub>	L <sub>c</sub>	S <sub>0</sub> ft/ft	H <sub>i</sub>	V <sub>0</sub>	H <sub>0</sub>	Q	V <sub>i</sub>	Q/V <sub>i</sub>	V <sub>i</sub> <sup>2</sup> (2g)	H <sub>i</sub>	Angle	H <sub>L</sub>	H <sub>i</sub>	1.3 H <sub>i</sub>	0.5 H <sub>i</sub>	Final H	Surface Elev.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)		
SSMH-26	60.49	18	6.20	24.08	0.0035	0.08	8.32	0.27	6.20	0.12	0.7	0.00	0.00	42	0.00	0.27	0.35	0.13	0.43	60.92	72.06	11.14
SSMH-25	63.78	18	6.20	34.14	0.0035	0.12	8.32	0.27	6.20	0.09	0.6	0.00	0.00	40	0.00	0.27	0.35	0.13	0.47	64.25	73.06	8.81
SSMH-24	65.01	18	6.20	25.65	0.0035	0.09	7.07	0.19	6.20	0.20	1.2	0.00	0.00	10	0.00	0.19	0.25	0.10	0.34	65.35	74.06	8.71
SSMH-23	65.58	18	6.20	56.09	0.0035	0.20	6.01	0.14	5.59	0.85	4.7	0.01	0.00	90	0.01	0.15	0.20	0.08	0.39	65.97	75.06	9.09
SSMH-22	66.36	18	5.59	300.00	0.0028	0.85	3.97	0.06	5.06	0.70	3.5	0.01	0.00	0	0.00	0.06	0.08	0.03	0.93	67.29	76.90	9.61
SSMH-21	67.85	18	5.06	300.00	0.0023	0.70	4.41	0.08	4.76	0.61	2.9	0.01	0.00	12	0.00	0.08	0.10	0.04	0.80	68.65	78.33	9.68
SSMH-20	69.73	18	4.76	297.00	0.0021	0.61	4.03	0.06	3.94	0.08	0.3	0.00	0.00	80	0.00	0.06	0.08	0.03	0.69	70.42	79.89	9.47
SSMH-19	73.17	18	3.94	60.00	0.0014	0.08	5.61	0.12	3.94	0.35	1.4	0.00	0.00	0	0.00	0.12	0.16	0.06	0.24	73.41	81.05	7.64
SSMH-18	73.78	14	3.94	65.00	0.0054	0.35	5.57	0.12	3.66	1.75	6.4	0.05	0.02	58	0.02	0.16	0.21	0.08	0.56	74.34	86.69	12.35
SSMH-17	74.68	12	3.66	166.00	0.0105	1.75	6.87	0.18	3.38	2.59	8.8	0.10	0.04	0	0.00	0.22	0.29	0.11	2.04	76.72	85.15	8.43
SSMH-16	78.93	12	3.38	289.00	0.0090	2.59	7.50	0.22	2.88	2.27	6.5	0.08	0.03	39	0.02	0.27	0.35	0.13	2.94	81.87	100.19	18.32
SSMH-15	88.96	12	2.88	349.00	0.0065	2.27	4.26	0.07	1.29	0.74	1.0	0.01	0.00	0	0.00	0.07	0.10	0.04	2.37	91.33	102.19	10.86
SSMH-14	92.66	10	1.29	213.00	0.0035	0.74	2.81	0.03	0.79	0.17	0.1	0.00	0.00	28	0.00	0.03	0.04	0.02	0.78	93.43	104.18	10.75
SSMH-13	93.73	10	0.79	133.00	0.0013	0.17	2.42	0.02	0.79	0.16	0.1	0.00	0.00	45	0.00	0.02	0.03	0.01	0.20	93.93	102.66	8.73
SSMH-12	94.44	10	0.79	122.00	0.0013	0.16	2.78	0.03	0.79	0.10	0.1	0.00	0.00	72	0.00	0.03	0.04	0.02	0.20	94.63	99.87	5.24
SSMH-11	96.57	10	0.79	76.00	0.0013	0.10	5.44	0.12	0.77	0.24	0.2	0.00	0.00	0	0.00	0.12	0.15	0.06	0.25	96.81	104.90	8.09
SSMH-10	99.65	10	0.77	189.00	0.0012	0.24	2.53	0.02	0.43	0.01	0.0	0.00	0.00	59	0.00	0.02	0.03	0.01	0.27	99.91	106.97	7.06
SSMH-9	100.59	10	0.43	16.00	0.0004	0.01	3.46	0.05	0.42	0.01	0.0	0.00	0.00	58	0.00	0.05	0.06	0.02	0.07	100.65	106.70	6.05
SSMH-8	100.97	10	0.42	29.00	0.0004	0.01	4.09	0.07	0.42	0.10	0.0	0.00	0.00	0	0.00	0.07	0.08	0.03	0.10	101.06	106.81	5.75
SSMH-7	101.83	10	0.42	265.00	0.0004	0.10	3.60	0.05	0.42	0.06	0.0	0.00	0.00	90	0.00	0.05	0.07	0.03	0.16	101.99	114.14	12.15
SSMH-6	107.41	10	0.42	178.00	0.0004	0.06	4.89	0.09	0.42	0.03	0.0	0.00	0.00	7	0.00	0.09	0.12	0.05	0.19	107.59	122.97	15.38
SSMH-5	115.97	10	0.42	94.00	0.0004	0.03	4.76	0.09	0.42	0.02	0.0	0.00	0.00	3	0.00	0.09	0.11	0.04	0.15	116.12	127.28	11.1
SSMH-4	120.25	10	0.42	48.00	0.0004	0.02	4.78	0.09	0.42	0.08	0.0	0.00	0.00	65	0.00	0.09	0.12	0.04	0.13	120.38	129.41	9.06
SSMH-1	122.50	10	0.42	229.00	0.0004	0.08	4.02	0.06	0.41	0.10	0.0	0.00	0.00	12	0.00	0.06	0.08	0.03	0.17	122.66	136.77	14.11
SSMH-2	129.04	10	0.41	299.00	0.0003	0.10	4.65	0.08	0.00	0.00	0.0	0.00	0.00	90	0.00	0.08	0.11	0.04	0.21	129.25	153.01	23.76





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CHAIRMAN, PLANNING COMMISSION _____ DATE _____	
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THE MARK  
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ALEXANDRIA, VIRGINIA  
SANITARY SEWER  
PROFILE  
LANDMARK 100 SR, LLC  
c/o NORTHPOINT REALTY PARTNERS  
8210 WOODMONT AVENUE SUITE 410  
BETHESDA, MARYLAND 20814

DEVELOPMENT  
PRELIMINARY SITE PLAN  
DSP 2015-0020

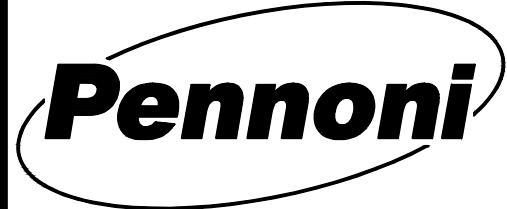
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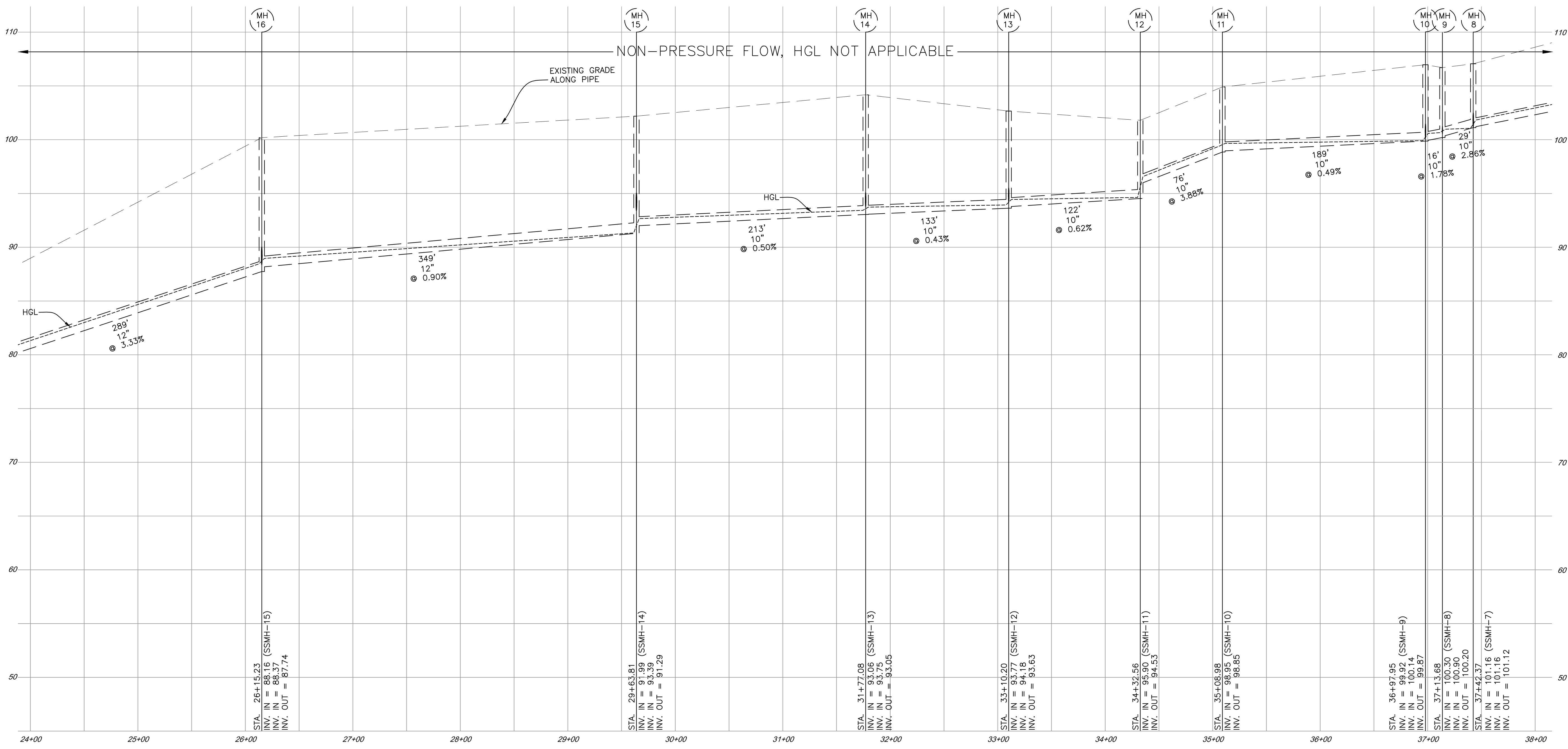
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	SHEET <b>20 OF 22</b>

SCALE <b>AS SHOWN</b>	DATE <b>2015-07-20</b>
DRAWN BY <b>PAI</b>	APPROVED <b>DHS</b>
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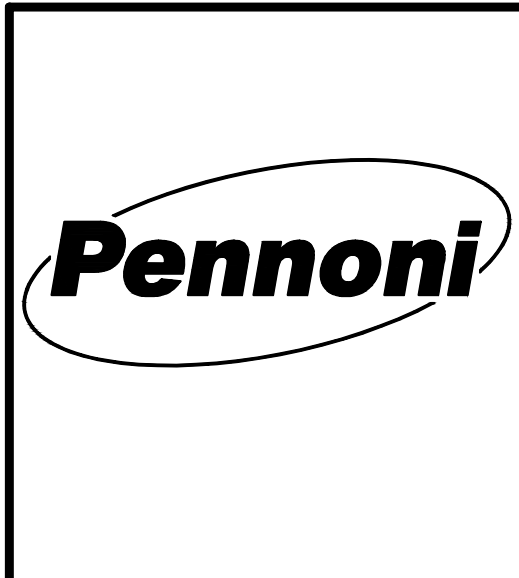


Pennoni Associates Inc.  
13880 Dulles Corner Lane, Herndon, VA 20171 703.449.6700





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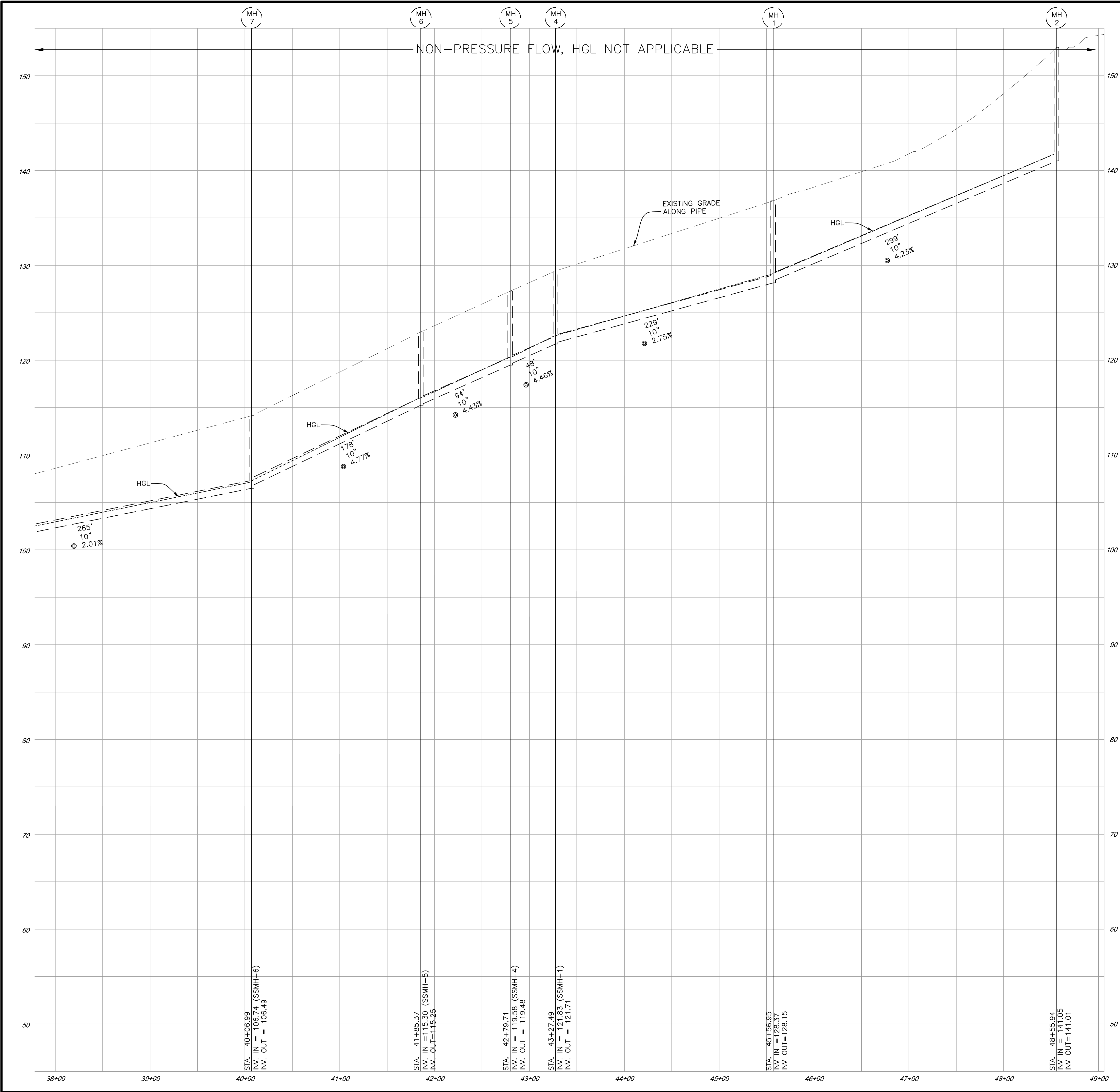
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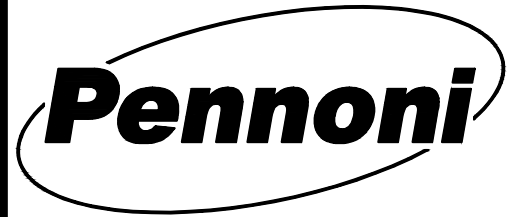
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