

Development Special Use Permit #2025-10008 DASH Expansion Project

Application	General Data	
Duciaat Nama	PC Hearing:	September 4, 2025
Project Name:	CC Hearing:	September 13, 2025
DASH Expansion for Electric Charging and Maintenance Facility	If approved, DSUP Expiration:	September 13, 2028
	Plan Acreage:	9.21 Acres
Location:	Zone:	I, Industrial
	Proposed Use:	Public Building for DASH Bus Operations
3000 Business Center Drive	Gross Floor Area:	
	Small Area Plan:	Taylor Run / Duke Street
Applicant:	Historic District:	N/A
Department of General Services, City of Alexandria	Green Building:	N/A

Purpose of Application

To amend development special use permit #2011-0008 to construct an electric charging canopy structure for electric buses;

Special Use Permits and Modifications Requested:

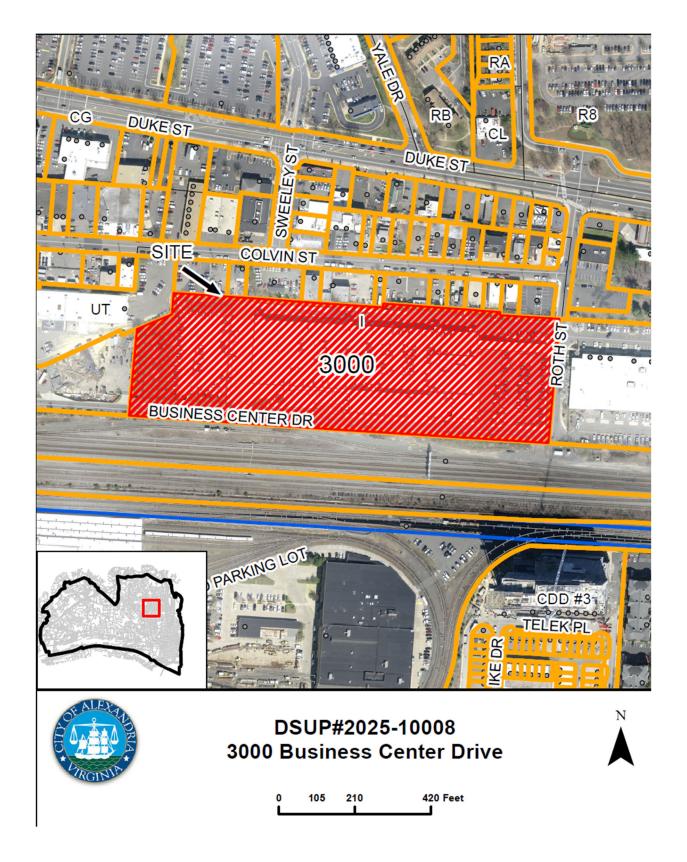
Special Use Permit for a *Public Building*

Staff Recommendation: APPROVAL WITH CONDITIONS

Staff Reviewers:

Robert Kerns AICP, Division Chief, Planning & Zoning, robert.kerns@alexandriava.gov
Dirk Geratz, AICP, Principal Planner, Planning & Zoning, dirk.geratz@alexandriava.gov
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<u>PLANNING COMMISSION ACTION, SEPTEMBER 4, 2025:</u> On a motion by Vice Chair Koenig, seconded by Commissioner Manor, the Planning Commission voted to recommend approval of Development Special Use Permit #2025-10008. The motion carried on a vote of 6-0, with Commissioner Ramirez absent.



I. SUMMARY

A. Recommendation

Staff recommends **approval** of the proposed amendments to the Development Special Use Permit (DSUP #2025-10008) for the proposed addition of an electric charging and maintenance structure at the current DASH facility at 3000 Business Center Drive. This project, including a previous amendment, conforms to the City's adopted plans, codes, and policies.

B. General Project Description

The purpose of this proposal is to construct a new canopy structure to expand additional bus parking, maintenance and storage for 24 additional buses. A DSUP is triggered by the *public building use* and a building expansion in excess of 3000 square feet.

II. BACKGROUND

A. Procedural Background

The DASH Bus Operations facility DSUP #2006-0025 was originally approved by City Council in May of 2008, to create a 160,000 square foot building to house 96 buses for protective storage and maintenance bays for repair and preventative maintenance work. As originally approved, the property was designed and graded to allow for a future expansion on the west side of the building to accommodate additional parking for 34 buses. Under the current proposal, this site will be used as the temporary location for the impound lot until this expansion program is approved and funded.

In 2011 a major amendment, DSUP #2011-0008, was approved to allow for the temporary relocation of part of the City's impound lot to this location. The impound lot was located at the vacant western end of the of the DASH property. It was approved knowing that this would be an interim use until DASH would need it for future expansion of their operations.

B. Site Context

The existing DASH bus facility is located at 3000 Business Center Drive. The facility is located west of the City-owned Witter Wheeler athletic campus and lies within the Taylor Run / Duke Street Small Area Plan. The site is currently functioning as a bus operations facility for Alexandria Transit Company, known as DASH and the City of Alexandria impound lot. The impound lot located at the western end of the property will be the site of the proposed expansion.

C. Detailed Project Description

This project proposes to construct a new canopy-style structure to expand bus parking, maintenance, storage and charging for 24 electric buses. The expansion is to be located to the west of the existing DASH facility, on the current impound lot. The improvements include: a partially open canopy structure with a solid roof but open on the long sides of the structure, electric charging capabilities to charge electric buses, a surface parking area and bus storage, vehicular access aisles and a secured gated entry. Additionally, a bioretention pond west of the new canopy is proposed to receive and treat runoff from these improvements before entering the existing detention pond. The structure is designed for future expansion and improvements to accommodate additional electric buses in the future.

D. Project Funding

This project is funded by FY2018 Smartscale Round 2 funding, which provides \$6.7 million for the construction of the DASH facility expansion to accommodate for fleet growth and service expansion. This grant also provides funding for six (6) expansion buses for service expansions. An additional \$2.5 million contributed by FY2018-2023 NVTA 70% funds, awarded for DASH Transit Service Enhancements and Expansion. The NVTA 70% funds augment the Smartscale funding to provide provisions for electric bus charging to be included with this project.

III. ZONING

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Property	Address:	-3000	Business	Center I	Jrive

Total Site Area: 9.21 acres

Zone: I, Industrial

<u>Current Use</u>: Public Building – DASH Bus Operations

<u>Proposed Use</u>: Public Building – Electric Charging Structure for up to 24 Buses

	Permitted/Required	SUP	Proposed
FAR	.85	1.25	.436
Setbacks	None	N/A	Front: 113.7 ft
			West Side: 172 ft
			Rear: 65.4 ft
Height	50 feet	N/A	35.25 feet
Parking	235	N/A	357
Loading Space	2	N/A	N/A
Tree Canopy	25%	N/A	48.5%

IV. STAFF ANALYSIS

The proposed facility provides an opportunity to fulfill many of the goals and objectives identified in the City's planning policies and documents – primarily the provision of efficient public transportation to reduce auto-dependency and improve quality of life. The City's Strategic Plan identifies the construction of a new DASH operations and maintenance facility as a project essential to achieving the goal of an integrated, multi-modal transportation system that efficiently and effectively transports City residents, visitors, and employees.

The new facility also enables DASH to improve quality of service by providing sufficient storage for additional buses, expanded maintenance bays to accommodate a larger bus fleet, adequate parts and equipment areas, and the ability to transition the fleet to environmentally friendly buses. DASH anticipates that the new facility will facilitate increased service levels on existing routes and the creation of new routes to connect new and future development, revitalized areas, and neighborhoods currently lacking sufficient transit.

A. Building Design/Architecture

The project consists of a 15,482 square foot open canopy (not fully enclosed) steel structure for the storage, maintenance, and charging of 24 electric buses with battery electric bus (BEB) charging infrastructure. The bus storage bays are topped by a conventional roof and an equipment platform that runs the length of the facility above the bays. The equipment platform is also roofed accommodating charging equipment. The long sides of the storage bays are open with no exterior doors. Insulated metal panels clad the solid wall areas. The panel design responds to the DASH campus' existing context incorporating a horizontal band of 'DASH yellow' on a field of off-white panels in coordination with the adjacent bus maintenance facility.

B. Conformance to the Small Area Plan

The subject property is located within the most southern portion of the Taylor Run/Duke Street Small Area Plan. This plan identifies the subject property, including much of the land area south of Colvin Street, as an area planned for light industrial and commercial service uses. The area occupied by the DASH facility had at one time been part of a railroad yard with industrial type uses surrounding this area. This location is an appropriate one for the expansion of the existing DASH operations which have been in operation since 2008.

C. Project Sustainability

The City of Alexandria's Environmental Action Plan (EAP 2040) includes targets for increased transit ridership, reduced vehicle miles traveled (VMTs), and to transition DASH's fleet to 100% zero-emission vehicles. Reducing single-occupant vehicle driving (SOV), and promoting sustainable modes of transportation like walking, biking and public transit can help people reduce greenhouse gas emissions, improve air quality, and promote land uses that further reduce carbon emissions.

As an open-air infrastructure facility which will not provide heat or air-conditioning in standard operation, the facility is exempted from the City's 2019 Green Building Policy and the certification requirements included in the Policy are not relevant. It should be noted that the structure will be built with concrete and stone aggregate products will be locally sourced materials.

Furthermore, the facility's use will support the transition to an all-electric DASH bus fleet by 2040. This will contribute to the City's overall goals of greenhouse gas reductions for decades into the future. All proposed concrete and stone aggregate products will be locally sourced materials.

Additionally, the site will become greener through the planting of new, site appropriate trees, and a landscaped bioretention area. A large number of trees are being removed, a majority of which are invasive species and small in diameter. Upon completion of the project, the tree canopy will be increased from the current 39% to 48.5%.

D. Stormwater Management

Stormwater will be managed by the existing dry detention pond. A new bioretention area will be added adjacent to the pond as part of this project for enhanced stormwater management. Both facilities will be maintained by the City.

The stormwater management plan demonstrates that the site has been developed to increase the post-development peak runoff rate from the pre-development peak runoff rate for a one-year and a ten-year storm considered individually. Therefore, stormwater detention is provided per the requirements of article 13-109(f)(1)(c) and 13-109(f)(2)(a)(i) of Alexandria zoning ordinance not to release stormwater from the site at a higher rate than pre-development condition. An adequate outfall analysis was completed to confirm this.

This project is an area that experiences flooding, as has been documented in the report titled 'Dash Flooding Analysis of Alternatives Alexandria, Va', prepared by Michael Baker International, dated 12/04/2019. This issue will be addressed as part of the improvements being made as part of the fourth track rail project abutting the property to the south.

V. <u>COMMUNITY</u>

The standard public notice procedures took place with this property including the posting of signs on the property, written notices to adjacent property owners as well as in a local newspaper noticing the public hearings. Additionally, DASH has a dedicated project webpage and has used existing email databases and community events to inform the community about the project.

No negative comments have been received by the City on this project at the time this report was completed. It should be noted that the isolated site and abutting uses being the rail corridor to the south, other City facilities to the east and west and two commercial uses to the north greatly limit potential impacts from the expanded facility.

VI. CONCLUSION

Staff recommends approval of the proposed amendment to the DASH DSUP and to permit the *public building* use at this location subject to compliance with all applicable codes and the following recommended conditions.

VII. GRAPHICS



Site Plan of new building and bus circulation space



View from Southwest corner looking northeast. Existing facility at far right.

VIII. STAFF RECOMMENDATIONS

Staff recommends approval of the proposed amendment to the DASH facility subject to compliance with all applicable codes and ordinances and the following conditions:

Note:

New conditions 55 through 69 are specific to this DSUP #2025-10008;

Conditions <u>1 through 54</u> are carried forward from DSUP2006-0025 or as amended by DSUP2011-00008. These conditions are still valid as applicable.

A. BUILDING DESIGN:

- 1. The final architectural elevations shall be consistent with the level of quality and detail provided in the preliminary architectural elevations dated April 23, 2008. In addition, the applicant shall provide additional refinements to the satisfaction of the Directors of P&Z and T&ES that shall at a minimum include: (DSUP #2006-0025):
 - a. All facades of the building shall be constructed entirely of masonry (precast) as generally depicted in the preliminary architectural elevations.
 - b. The building elevations shall be light sandblast and include bands of blue and yellow paint or stain to add visual interest and identification to the building.
 - c. The band of blue shall be provided on the two-story segment of the Business Center Drive and Roth Street building elevations, except in the recessed building segments. The band of yellow shall be located immediately beneath the band of blue on the two-story segment of the Business Center Drive and Roth Street elevations and continue on each building elevation.
 - d. Louvers located within the yellow band shall be factory finished or painted yellow to match the band of yellow stain or paint. All other louvers shall be factory finished or painted match corresponding wall material or color.
 - e. The stairs located on the north of the building shall be factory finished or painted to correspond to the color of the precast.
 - f. Overhead doors shall be factory finished to match the bands of blue stain or paint.
 - g. Provide fourteen to sixteen detailed, fluted pilasters on the southern and eastern building elevations to identify the main entrance and administrative area as a primary façade.
 - h. Windows shall be gridded with an operable awning, and mullions shall be factory finished or painted yellow to correspond to the yellow building band.
 - i. The entrance canopy shall be enhanced to provide a decorative, cable-suspended canopy. All building identification shall be located above the canopy to ensure consistency with the art deco style.
 - j. The DASH sign shall be integrated with the building and designed in general conformance with Attachment #1.

- k. The rooftop mechanical equipment visible from Business Center Drive and Roth Street shall be painted to match the precast concrete panels.
- 1. The building mounted light fixtures shall be an integrated part of the façade and shall be provided with the final site plan submission.
- m. The freestanding light poles on the ramp shall be eliminated. Wall mounted lighting on the interior of the ramp shall be provided.
- n. The City of Alexandria encourages the use of green/sustainable building technology. The applicant shall achieve points toward LEED Silver Certification under the U.S. Green Building Council's System. The sustainable design elements and innovative technologies implemented to achieve these points shall be consistent with the preliminary project checklist dated February 29, 2008.
- o. A color on-site mock-up shall be provided prior to the final selection of the precast concrete and other building materials.
- p. Color architectural elevations (front, side and rear) shall be submitted with the final site plan and with the mylar submission. (P&Z)(T&ES)
- 2. The applicant of any building or structure constructed in excess of 10,000 square feet; or any building or structure which constructs an addition in excess of 10,000 square feet shall contact the City of Alexandria Radio Communications Manager prior to submission of final site plan. The proposed project shall be reviewed for compliance with radio requirements of the City of Alexandria to the satisfaction of the City of Alexandria Radio Communications Manager prior to site plan approval. Such buildings and structures shall meet the following conditions (DSUP #2006-0025):
 - a. The building or structure shall be designed to support a frequency range between 806 to 824 MHz and 850 to 869 MHz.
 - b. The building or structure design shall support minimal signal transmission strength of -95 dBm within 90 percent of each floor area.
 - c. The building or structure design shall support a minimal signal reception strength of -95 dBm received from the radio system when transmitted from within 90 percent of each floor area.
 - d. The building or structure shall be tested annually for compliance with City radio communication requirements to the satisfaction of the Radio Communications Manager. A report shall be filed annually with the Radio Communications Manager which reports the test findings.

If the building or structure fails to meet the above criteria, the applicant shall install to the satisfaction of the Radio Communications Manager such acceptable amplification systems incorporated into the building design which can aid in meeting the above requirements. Examples of such equipment are either a radiating cable system, or an FCC approved type bi-directional amplifier. Final testing and acceptance of amplification systems shall be reviewed and approved by the Radio Communications Manager. Acknowledged by applicant, will be evaluated with DB team. (Code)

B. PEDESTRIAN AND STREETSCAPE:

- 3. The applicant shall provide pedestrian and streetscape improvements that at a minimum provide the level of improvements depicted on the preliminary site plan dated March 20, 2008, and shall also at a minimum provide the following to the satisfaction of the Directors of P&Z, RP&CA, and T&ES:
 - a. The sidewalk on the north side of Business Center Drive, with the exception of the entrance area, shall be a 6-foot-wide unobstructed sidewalk located adjacent to the curb with a minimum 6-foot landscape strip located between the sidewalk and the bioretention planter boxes.
 - b. The sidewalk on the west side of Roth Street shall be a minimum of 7 feet, with a minimum unobstructed width of 5 feet. A landscape strip shall be provided adjacent to the curb, and a continuous screen hedge shall be installed adjacent to the sidewalk within the landscape strip. Street trees shall be centered in the landscape strip between the screen hedge and the curb.
 - c. The developer shall install and maintain ADA accessible pedestrian crossings serving the site.
 - d. Where crosswalks are to be marked, provide thermoplastic (open ladder) style crosswalks at all midblock locations; all other crosswalks at controlled intersections shall be standard two-line crosswalks.
 - e. All pedestrian and streetscape improvements shall be completed prior to the physical occupation of the impound lot. (P&Z) (T&ES)(RP&CA) (DSUP#2011-00008)
- 4. Americans with Disability Act (ADA) ramps shall comply with the requirements of Memorandum to Industry No. 03-07 on Accessible Curb Ramps dated August 2, 2007, with truncated domes on the end of the ramp with contrasting color from the rest of the ramp. A copy of this Memorandum is available on the City of Alexandria website (DSUP #2006-0025). (T&ES)
- 5. Provide all pedestrian and traffic signage in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), latest edition to the satisfaction of the Director of T&ES (DSUP #2006-0025). (T&ES)

C. <u>LANDSCAPING:</u>

- 6. The applicant shall provide landscape improvements that at a minimum provide the level of improvements depicted on the preliminary site plan dated March 20, 2008, and shall also at a minimum provide the following to the satisfaction of the Directors of P&Z, RP&CA, T&ES, and Code Enforcement (DSUP #2006-0025):
 - a. Develop, provide, install and maintain an integrated Landscape Plan that is coordinated with other associated site.
 - b. The plan shall comply with the City of Alexandria Landscape Guidelines.

- i. Ensure that FDC connections and secure access/exit areas for the building are not compromised by proposed plantings.
- ii. Provide required crown area coverage.
- iii. Provide hose bibs at a maximum spacing of 90' apart on three faces of the building, as generally depicted on the preliminary plan
- iv. Hose bibs and ground set water connections must be fully accessible and not blocked by plantings, site utilities or other obstructions.
- c. The transformer located adjacent to Business Center Drive shall be screened.
- d. Flow-through planter boxes shall be precast to match the building materials.
- e. The rooftop open space shall be designed to function as high-quality usable open space for the employees. At a minimum, the rooftop deck shall include planters, tables and chairs, benches, and trash receptacles.
- f. The landscaping for the proposed development shall not impede the visibility of any FDC or Fire Hydrant and shall comply with Section 912 of the Statewide Fire Prevention Code. Landscaping that impedes FDC visibility and shall be removed by the Final Site Plan #1 submission. (RP&CA)(P&Z)(T&ES)(Code)

D. SITE PLAN:

- 7. Security fences and gates shall be black, vinyl-coated chain link and shall not exceed 8 feet in height (DSUP #2006-0025). (P&Z)
- 8. Shift the security fence located adjacent to the stormwater management basin north to accommodate the five street trees between the sidewalk and the fence (DSUP #2006-0025). (P&Z)
- 9. The final subdivision and consolidation plats shall be submitted as part of the submission for first final site plan and shall be approved and recorded prior to the release of the final site plan (DSUP #2006-0025). (P&Z)
- 10. Provide a lighting plan with the final site plan to verify that lighting meets City standards. The plan shall be to the satisfaction of the Directors of T&ES and P&Z in consultation with the Chief of Police and shall include the following (DSUP #2006-0025):
 - a. Clearly show location of all existing and proposed streetlights and site lights, shading back less relevant information;
 - b. A lighting schedule that identifies each type and number of fixtures, mounting height, and strength of fixture in Lumens or Watts;
 - c. Manufacturer's specifications and details for all proposed fixtures including site, landscape, pedestrian, sign(s), and security lighting.
 - d. A photometric plan with lighting calculations that include all existing and proposed light fixtures, including any existing streetlights located on the opposite side(s) of all adjacent streets. Photometric calculations must extend from proposed building face(s) to property line and from property line to the opposite side(s) of all the

- adjacent streets and/or 20 feet beyond the property line on all adjacent properties, and right-of-way. Show existing and proposed streetlights and site lights.
- e. Photometric site lighting plan shall be coordinated with architectural/building mounted lights, site lighting, street trees and streetlights and minimize light spill into adjacent residential areas.
- f. Provide location of conduit routing between site lighting fixtures so as to avoid conflicts with street trees.
- g. Detail information indicating proposed light pole and footing in relationship to adjacent grade or pavement.
- h. The lighting for the areas not covered by the City of Alexandria' standards shall be designed to the satisfaction of Directors of T&ES and P&Z.
- i. Provide numeric summary for various areas (i.e., roadway, walkway/ sidewalk, alley, parking lot, etc.) in the proposed development.
- j. Full cut-off lighting shall be used at the development site to prevent light spill onto adjacent properties. (T&ES)(P&Z) (Police)

E. STORMWATER:

- 11. Per the requirements of the City of Alexandria Zoning Ordinance Article XI, the applicant shall complete a drainage study and adequate outfall analysis for the total drainage area to the receiving sewer that serves the site. Since the existing storm system is known to be inadequate then the applicant shall design and construct improvements on-site or off-site to discharge to an adequate outfall; or improve the existing drainage system on the proposed development site without adversely impacting the downstream conditions. The condition shall be fulfilled even if the post development storm water flow from the site is reduced from the pre-development flow. The Plan shall demonstrate compliance with this condition to the satisfaction of the Director of Transportation & Environmental Services. (T&ES) (DSUP#2011-00008)
- 12. Per the requirements of the City of Alexandria Zoning Ordinance (AZO) Article XIII, the applicant shall comply with the peak flow requirements and prepare a Stormwater Management Plan so that from the site, the post-development peak runoff rate form a two-year storm and a ten-year storm, considered individually, shall not exceed their respective predevelopment rates. If combined uncontrolled and controlled stormwater outfall is proposed, the peak flow requirements of the Zoning Ordinance shall be met (DSUP #2006-0025). (T&ES)
- 13. Flow from downspouts, foundation drains, and sump pumps shall be discharged to the storm sewer outfall as per the requirements of Memorandum to the industry on Downspouts, Foundation Drains, and Sump Pumps, Dated June 18, 2004, that is available on the City of Alexandria's web site. The downspouts and sump pump discharges shall be piped to the storm sewer outfall, where applicable after treating for water quality as per the requirements of Article XIII of Alexandria Zoning Ordinance (AZO) (DSUP #2006-0025). (T&ES)

- 14. All stormwater designs that require analysis of pressure hydraulic systems, including but not limited to the design of flow control structures and storm water flow conveyance systems shall be signed and sealed by a professional engineer, registered in the Commonwealth of Virginia. The design of storm sewer shall include the adequate outfall, inlet, and hydraulic grade line (HGL) analyses that shall be completed to the satisfaction of the Director of T&ES. Provide appropriate reference and/or source used to complete these analyses. If applicable, the Director of T&ES may require resubmission of all plans that do not meet this standard (DSUP #2006-0025). (T&ES)
- 15. The storm water collection system is located within the Cameron Run watershed. All on-site storm water curb inlets and public curb inlets within 50 feet of the property line shall be duly marked using standard City markers, or to the satisfaction of the Director of T&ES (DSUP #2006-0025). (T&ES)

F. WASTEWATER / SANITARY SEWERS:

16. In compliance with the City of Alexandria Zoning Ordinance Article XI, the applicant shall complete a sanitary sewer adequate outfall analysis as per the requirements of Memorandum to Industry No. 02-07 New Sanitary Sewer Connection and Adequate Outfall Analysis dated June 1, 2007 (DSUP #2006-0025). (T&ES)

G. SOLID WASTE:

- 17. The City of Alexandria shall provide the solid waste collection services, and all the refuse/recycling facilities shall be designed to the satisfaction of Director T&ES (DSUP #2006-0025). (T&ES)
- 18. The standard containers that are compatible with the City collection system shall be provided to the satisfaction of the Director of Transportation and Environmental Services (DSUP #2006-0025). (T&ES)
- 19. The applicant shall provide storage space for solid waste and recyclable materials containers as outlined in the City's "Solid Waste and Recyclable Materials Storage Space Guidelines", or to the satisfaction of the Director of Transportation & Environmental Services. The City's storage space guidelines and required Recycling Implementation Plan forms are available at: www.alexandriava.gov or contact the City's Solid Waste Division at 703-519-3486 ext.132 (DSUP #2006-0025). (T&ES)

H. STREETS/TRAFFIC:

20. All improvements to the City's infrastructure, including but not limited to, curb, gutter, sidewalk, and driveway aprons, and patch work required for utility installation, etc., or damaged during construction shall be designed and constructed as per the City of Alexandria standards and specifications (DSUP #2006-0025). (T&ES)

- 21. Prior to the release of the final site plan, provide a Traffic Control Plan for construction detailing proposed controls to traffic movement, lane closures, construction entrances, haul routes, and storage and staging (DSUP #2006-0025). (T&ES)
- 22. All Traffic Control Device design plans, Work Zone Traffic Control plans, and Traffic Studies shall be signed and sealed by a professional engineer, registered in the Commonwealth of Virginia (DSUP #2006-0025). (T&ES)
- 23. Show turning movements of standard vehicles, buses, tow trucks, and trash trucks on the parking structure and/or on-site. Turning movements shall meet AASHTO vehicular guidelines and shall be to the satisfaction of the Director of T&ES. (T&ES) (DSUP#2011-00008)
- 24. The slope on parking ramp to garage entrance shall not exceed 10 percent. In case the slope varies between 10% and 12% then the applicant shall provide trench drain connected to a storm sewer to eliminate or diminish the possibility of ice formation (DSUP #2006-0025). (T&ES)

I. <u>UTILITIES:</u>

- 25. All private utilities shall be located outside of the public right-of-way and public utility easements (DSUP #2006-0025). (T&ES)
- 26. Show all existing and proposed public and private utilities and easements and provide a descriptive narration of various utilities (DSUP #2006-0025). (T&ES)

J. SOILS:

27. The applicant shall provide a geotechnical report, including recommendations from a geotechnical professional for proposed cut slopes and embankments with the submission of the first final site plan (DSUP #2006-0025). (T&ES)

K. <u>BMP FACILITIES:</u>

- 28. The City of Alexandria's storm water management regulations regarding water quality are two-fold: first, phosphorus removal requirement and second, water quality volume default. Compliance with the phosphorus requirement does not relieve the applicant from the water quality default requirement. The water quality volume determined by the site's proposed impervious area shall be treated in a Best Management Practice (BMP) facility (DSUP #2006-0025). (T&ES)
- 29. Provide BMP narrative and complete pre and post development drainage maps that include areas outside that contribute surface runoff from beyond project boundaries to include adequate topographic information, locations of existing and proposed storm drainage systems affected by the development, all proposed BMP's and a completed Worksheet A or B and Worksheet C, as applicable (DSUP #2006-0025). (T&ES)

- 30. The storm water Best Management Practices (BMPs) required for this project shall be constructed and installed under the direct supervision of the design professional or his designated representative. Prior to release of the performance bond, the design professional shall submit a written certification to the Director of T&ES that the BMPs are (DSUP #2006-0025):
 - a. Constructed and installed as designed and in accordance with the approved Final Site Plan.
 - b. Clean and free of debris, soil, and litter by either having been installed or brought into service after the site was stabilized. (T&ES)
- 31. Surface-installed storm water Best Management Practice (BMP) measures, i.e. Bio-Retention Filters, Vegetated Swales, etc. that are employed for this site, require installation of descriptive signage to the satisfaction of the Director of T&ES (DSUP #2006-0025). (T&ES)
- 32. The DASH Bus Maintenance Facility, 3000 Business Center Drive, shall be added to the Memorandum of Understanding concerning maintenance responsibilities for the City owned stormwater management best management practices, including stormwater detention pond. Amending this document shall be accomplished prior to mylar approval. (T&ES)(DSUP#2011-00008)
- 33. Prior to physical occupation of the impound_lot, a copy of the Operation and Maintenance Manual shall be submitted to the Division of Environmental Quality on digital media. (T&ES) (DSUP#2011-00008)
- 34. Prior to physical occupation of the impound, the Applicant is required to submit a certification by a qualified professional to the satisfaction of the Director of T&ES that any existing storm water management facilities adjacent to the project and associated conveyance systems were not adversely affected by construction operations and that they are functioning as designed and are unaffected by construction activities. If maintenance of the facility or systems were required in order to make this certification, provide a description of the maintenance measures performed. (T&ES) (DSUP#2011-00008)

L. CONTAMINATED LAND:

- 35. Due to historic uses at the site and potential for contamination, the following condition shall be included:
 - a. The Applicant shall design and install a vapor barrier and ventilation system for buildings and parking areas in order to prevent the migration or accumulation of methane or other gases, or conduct a study and provide a report signed by a professional engineer showing that such measures are not required to the satisfaction of Directors of T&ES and Code Administration. (T&ES) (DSUP#2011-00008)

- 36. The final site plan shall not be released, and no construction activity shall take place until the following has been submitted and approved by the Director of T&ES (DSUP #2006-0025):
 - a. Submit a Site Characterization Report/Extent of Contamination Study detailing the location, applicable contaminants, and the estimated quantity of any contaminated soils and/or groundwater at or in the immediate vicinity of the site.
 - b. Submit a Risk Assessment indicating any risks associated with the contamination.
 - c. Submit a Health and Safety Plan indicating measures to be taken during remediation and/or construction activities to minimize the potential risks to workers, the neighborhood, and the environment.
 - d. Applicant shall submit 5 copies of the above. The remediation plan must be included in the Final Site Plan. (T&ES)

M. NOISE:

37. All exterior building mounted loudspeakers are prohibited (DSUP #2006-0025). (T&ES)

N. AIR POLLUTION:

- 38. The Applicant shall control odors and any other air pollution sources resulting from operations at the site and prevent them from leaving the property or becoming a nuisance to neighboring properties, as determined by the Director of Transportation and Environmental Services (DSUP #2006-0025). (T&ES)
- 39. DASH buses and contractors shall not cause or permit diesel fueled vehicles to idle for more than 10 minutes when parked (DSUP #2006-0025). (T&ES)

O. AUTOMOTIVE:

- 40. Car wash facilities must be equipped with a water recycling system. The building official shall approve such a system. Any car washing activity must drain to the sanitary sewer system with prior approval from ASA, or be covered by a VPDES permit for discharge into the storm sewer (DSUP #2006-0025). (T&ES)
- 41. Provide a plan that shows the method of connection for the discharge of vehicle wash to an approved sanitary sewer system and proper disposal of rainwater to the storm sewer system. In case the applicant chooses to install commercial car washing equipment, such equipment shall be equipped with a water recycling system approved by the building official (DSUP #2006-0025). (T&ES)
- 42. All waste products including but not limited to organic compounds (solvents), motor oil, compressor lubricant and antifreeze shall be disposed of in accordance with all local, state and federal ordinances or regulations and not be discharged to the sanitary or storm sewers or be discharged onto the ground (DSUP #2006-0025). (T&ES)

43. The applicant shall comply with the City of Alexandria Best Management practices manual for automotive related industries. A copy can be obtained by contacting the Division of Environmental Quality at 703-838-4334 (DSUP #2006-0025). (T&ES)

P. CONSTRUCTION:

- 44. A "Certified Land Disturber" (CLD) shall be named in a letter to the Division Chief of C&I prior to any land disturbing activities. If the CLD changes during the project, that change must be noted in a letter to the Division Chief. A note to this effect shall be placed on the Phase I Erosion and Sediment Control sheets on the site plan (DSUP #2006-0025). (T&ES)
- 45. During the construction phase of this development, the site developer, their contractor, certified land disturber, or owner's other agent shall implement a waste and refuse control program. This program shall control wastes such as discarded building materials, concrete truck washout, chemicals, litter or trash, trash generated by construction workers or mobile food vendor businesses serving them, and all sanitary waste at the construction site and prevent offsite migration that may cause adverse impacts to neighboring properties or to the environment to the satisfaction of Directors of Transportation and Environmental Services and Code Enforcement. All wastes shall be properly disposed offsite in accordance with all applicable federal, state and local laws (DSUP #2006-0025). (T&ES)
- 46. The applicant shall prepare and submit a plan that delineates a detailed construction management plan for the entire project for review and approval by the Directors of P&Z, T&ES, and Code Enforcement prior to the release the final site plan. Before commencing any clearing or grading of the site, the applicant shall hold a meeting with notice to all adjoining property owners to explain the plan for temporary pedestrian and vehicular circulation, and hours and overall schedule for construction. Copies of plans showing the hauling route, construction worker parking, and temporary pedestrian and vehicular circulation and temporary construction trailer location shall be posted in the construction trailer and given to each subcontractor before they commence work (DSUP #2006-0025). (P&Z) (T&ES)
- 47. The applicant shall identify a person who will serve as liaison to the community throughout the duration of construction. The name and telephone number, including an emergency contact number, of this individual shall be provided in writing to residents, property managers and business owners whose property abuts the site and shall be placed on the project sign, to the satisfaction of the Directors of P&Z and T&ES (DSUP #2006-0025). (T&ES)
- 48. Submit an approvable construction phasing plan to the satisfaction of the Director of T&ES, which will allow review, approval and partial release of final the site plan. In addition, building and construction permits required for site preconstruction shall be

- permitted prior to release of the final site plan to the satisfaction of the Direction of T&ES (DSUP #2006-0025). (T&ES)
- 49. The applicant shall submit a wall check to the Departments of P&Z and T&ES prior to the commencement of framing for the building(s). The building footprint depicted on the wall check shall comply with the approved final site plan. The wall check shall also provide the top-of-slab and first floor elevation as part of the wall check. The wall check shall be prepared and sealed by a registered engineer or surveyor, and shall be approved by the City prior to commencement of framing (DSUP #2006-0025). (P&Z)(T&ES)
- 50. As part of the request for a certificate of occupancy permit, a building and site location survey shall be submitted to the Departments of P&Z and T&ES for all site improvements. A certification of height for the building shall also be submitted as part of the certificate of occupancy for each building(s). The certification shall be prepared and sealed by a registered architect and shall state that the height of the building complies with the height permitted pursuant to the approved development special use permit and that the height was calculated based on all applicable provisions of the Zoning Ordinance (DSUP #2006-0025). (P&Z)(T&ES)
- 51. A temporary informational sign shall be installed on the site prior to the approval of the final site plan for the project and shall be displayed until construction is complete; the sign shall notify the public of the nature of the upcoming project and shall provide a phone number for public questions regarding the project (DSUP #2006-0025). (P&Z)(T&ES)
- 52. Temporary construction trailers shall be permitted and be subject to the approval of the Directors of P&Z, T&ES, and Code Administration. The trailer(s) shall be located on the final site plan and removed prior to physical occupation of the impound lot. (P&Z) (T&ES) (Code) (DSUP#2011-00008)

Q. MISCELLANEOUS:

- 53. The applicant shall provide two (2) short-term / visitor bicycle parking racks at the ground level, preferably located within 50 yards of the building entrance. If the rack location is not apparent or immediately visible to visitors, provide standard, MUTCD compliant (D4-3) signs indicating location of bicycle parking. Racks may not be more than 200 yards from the building entrance. Bicycle rack locations are preferably covered and grouped. Short term racks shall be located in a manner that will not obstruct the existing / proposed sidewalks. City of Alexandria bicycle parking standards and details for acceptable locations are available at:

 www.alexride.org/bicycleparking.php (DSUP #2006-0025). (T&ES)
- 54. Long term / employee bicycle parking, storage and changing rooms (DSUP #2006-0025):

- a. The applicant shall provide five (5) long-term / employee bicycle parking racks to the satisfaction of the Director of T&ES. If the racks location is not apparent or immediately visible, provide standard, MUTCD compliant (D4-3) signs indicating the location of bicycle parking. City of Alexandria bicycle parking standards and details for acceptable locations are available at: www.alexride.org/bicycleparking.php
- b. The applicant shall provide two (2) shower(s) per gender and a minimum of ten (10) clothes storage lockers per gender. The lockers shall be accessible to all employees of the facility to the satisfaction of the Director of T&ES.
- c. To satisfy LEED Credit 4.2 (Alternative Transportation: Bicycle Storage and Changing Rooms) the combination of short-term/visitor parking and long-term/employee parking may be increased in the event that the number of bicycle parking spaces does not provide enough bicycle racks to provide for 5% or more of all building users during peak use periods. (T&ES)

R. CONDITIONS RELATED TO ELECTRIC CHARGING FACILITY (DSUP 2025-10008):

- 55. The final site plan and architectural elevations shall be consistent with the level of quality and detail provided in the preliminary site plan and associated architectural elevations dated May 27, 2025. (P&Z)(DSUP2025-10008) (P&Z)
- 56. The applicant shall provide landscape improvements that at a minimum provide the level of improvements depicted on the preliminary site plan dated May 27, 2025, to the satisfaction of the Director of P&Z. (P&Z)
- 57. The applicant shall provide pedestrian and streetscape improvements that at a minimum provide the level of improvements depicted on the preliminary site plan dated May 27, 2025, and shall also at a minimum provide the following to the satisfaction of the Director of P&Z. (P&Z)
- 58. The electric charging structure is exempt from the 2019 Green Building Policy as it is an open structure. (OFFICE of CLIMATE ACTION) (DSUP2025-10008)
- 59. Should any unanticipated contamination, underground storage tanks, drums or containers be encountered at the site during construction, the Applicant must immediately notify the City of Alexandria Department of Transportation and Environmental Services, Office of Environmental Quality. Should unanticipated conditions warrant, construction within the impacted area shall be stopped until the appropriate environmental reports identified by the City are submitted and approved at the discretion of the Director of Transportation and Environmental Services. (T&ES) (DSUP2025-10008)
- 60. Any damage of the City's existing public infrastructure that occurs during construction must be repaired pursuant to the most recent version of the T&ES Design and

- Construction Standards Memo to Industry 23-01, or to the satisfaction of Director of T&ES. (T&ES) (DSUP2025-10008)
- 61. Full curb to curb restoration is required for any asphalt patches larger than 20 percent of the total asphalt surface, measured along the length of the road adjacent to the property frontage and/or extending to the centerline of the street. (T&ES) (DSUP2025-10008)
- 62. No vehicles associated with this project shall be permitted to idle for more than 10 minutes when parked, including construction vehicles, per 9 VAC 5-40-5670 of the Virginia State Code. (T&ES) (DSUP2025-10008)
- 63. Submit a separate construction management plan to the Directors of P&Z, T&ES, and Code Administration prior to Final Site Plan release. The plan shall satisfy these requirements:
 - a. Do not remove streetlights without authorization from the City of Alexandria,
 - b. If streetlights are to be removed from the public right-of-way, then provide temporary lights until the installation and commissioning of new lights,
 - c. Include an analysis as to whether temporary street or site lighting is needed for safety during the construction on the site and how it is to be installed,
 - d. Provide a detailed sequence of demolition and construction of improvements in the public right of way along with an overall proposed schedule for demolition and construction,
 - e. Include an overall proposed schedule for construction,
 - f. Include a plan for temporary pedestrian circulation,
 - g. Include the location and size of proposed construction trailers, if any,
 - h. Include a preliminary Maintenance of Traffic Plan as part of the construction management plan for informational purposes only, to include proposed controls for traffic movement, lane closures, construction entrances and storage of materials, and post copies of the plan in the construction trailer and give it to each contractor before they start work. (T&ES) (DSUP2025-10008)
- 64. Provide off-street parking for all construction workers without charge and ensure that all workers use this parking. For workers who use Metro, DASH, or another form of mass transit, subsidize a minimum of 50 percent of the fees. Complying with this condition shall be a component of the construction management plan, which shall be submitted prior to Final Site Plan release and approved by the Departments of P&Z and T&ES prior to commencing any construction activities. This plan shall:
 - a. Establish and provide verifiable details and/or agreements on the location of the parking to be provided at various stages of construction, how many spaces will be provided, how many construction workers will be assigned to the work site, and mechanisms which will be used to encourage the use of mass transit,
 - b. Post information on transit schedules and routes,

- c. The community liaison must manage parking actively for all construction workers and ensure compliance with the off-street parking requirement, and
- d. If the off-street construction worker parking plan is found to be violated during construction, a correction notice will be issued to the applicant. (T&ES) (DSUP2025-10008)

65.In the construction management plan, include chapters on:

- a. Maintaining pedestrian access. If sidewalks must be closed, pedestrian access shall be maintained adjacent to the site per Memo to Industry 04-18 throughout the construction of the project.
- b. **Maintaining bicycle access.** If a bicycle facility must be closed, bicycle access shall be maintained adjacent to the site per Memo to Industry 04-18 throughout the construction of the project.
- c. **Maintaining access to transit stops.** Stops shall remain open to the extent feasible for the duration of construction. Coordinate with the T&ES Transportation Planning Division at 703.746.4088 as well as the transit agency serving the stop.
- d. **Waste control program.** This program shall control waste (e.g., discarded building materials, concrete truck washout, chemicals, litter or trash, sanitary waste) and prevent offsite migration that may cause adverse impacts to neighboring properties or to the environment. Dispose of all waste offsite per all applicable. (T&ES) (DSUP2025-10008)

66. Conduct these pre-construction meetings:

- a. Walk/survey of the site prior to any land disturbing activities with T&ES Construction & Inspection and Code Administration staff to document existing conditions prior to Final Site Plan release.
- b. An in-person or virtual meeting to review the location of construction worker parking, plan for temporary pedestrian and vehicular circulation, and hours and overall schedule for construction prior to commencing demolition, clearing, and grading of the site. Notice all adjoining property owners, civic associations, and the Departments of P&Z and T&ES at least 14 calendar days before the meeting. Hold the meeting before any building or grading permits are issued.
- c. An in-person or virtual pre-installation/construction meeting to review the scope of landscaping installation procedures and processes with the P&Z landscape architect prior to starting work. (T&ES) (DSUP2025-10008)

67. Identify these individuals prior to Final Site Plan release:

- a. Certified Land Disturber (CLD) in a letter to the Division Chief of Permits & Inspections prior to any land disturbing activities and include the name on the Phase I Erosion and Sediment Control sheets. If the CLD changes during the project, then note the change in a letter to the Division Chief.
- b. Community liaison for the duration of the project. Provide their name and telephone number, including an emergency contact number, to residents, property managers,

and business owners whose property abuts the site. Display the sign until construction finishes. (T&ES) (DSUP2025-10008)

- 68. Submit a stamped electronic copy of a wall check survey completed by a licensed, certified public land surveyor or professional engineer when below-grade construction reaches the proposed finished grade. Ensure the wall check shows:
 - a. Key dimensions of the building as shown on the approved Final Site Plan,
 - b. Key dimensions from the future face of finished wall above to the property line and any adjacent structures on the property,
 - c. Extent of any below-grade structures,
 - d. Foundation wall in place, and
 - e. Future face of finished wall above. (T&ES) (DSUP2025-10008)
- 69. Submit a stamped electronic copy of an as-built development site plan survey, per the *As-Built Development Site Plan Survey Checklist* prior to applying for a Certificate of Occupancy permit. A registered architect, engineer, or surveyor shall prepare the as-built plan. (T&ES) (DSUP2025-10008)

CITY DEPARTMENT CODE COMMENTS

Note: These comments approved with DSUP 2006-0025 and DSUP 2011-00008. No new comments added with DSUP2025-10008.

Legend: C – code requirement; R – recommendation; S – suggestion; F- finding

Planning and Zoning

- F-1 Revise the proposed plat of consolidation and the re-subdivision plat to include identify the newly subdivided lots as Lot 800 and Lot 801, rather than Lot 702 and 703. (P&Z)
- F-2 Revise the proposed plat of consolidation and the re-subdivision plat to be shown on an 18"x24" sheet with thin lines depicting the existing lots and a thicker line depicting the proposed lots. (P&Z)
- F-3 Revise the proposed plat of consolidation and the re-subdivision plat to depict the tax map numbers for all existing and surrounding parcels in dotted lines/words. (P&Z)

Transportation and Environmental Services

F-1 Since the record drawings, maps, and other documents of the City of Alexandria, State, and Federal agencies show the true north pointing upwards, therefore, the Site Plan shall show the true north arrow pointing upward as is customary; however, for the sake of putting the plan together and/or ease of understanding, the project north arrow pointing upward, preferably east, or west may be shown provided it is consistently shown in the same direction on all the sheets with no exception at all. The north arrow shall show the source of meridian. The project north

arrow pointing downward will not be acceptable even if, it is shown consistently on all the sheets. (T&ES)

F-2 The plan shall show sanitary and storm sewer, and water line in plan and profile in the first final submission and cross reference the sheets on which the plan and profile is shown, if plan and profile is not shown on the same sheet. Clearly label the sanitary and storm sewer, or water line plans and profiles. Provide existing and proposed grade elevations along with the rim and invert elevations of all the existing and proposed sanitary and storm sewer at manholes, and water line piping at gate wells on the respective profiles. Use distinctive stationing for various sanitary and storm sewers (if applicable or required by the plan), and water line in plan and use the corresponding stationing in respective profiles. (T&ES)

F-3 The Plan shall include a dimension plan with all proposed features fully dimensioned, and the property line clearly shown. (T&ES)

F-4 Include all symbols, abbreviations, and line types in the legend. (T&ES)

F-5 All storm sewers shall be constructed to the City of Alexandria standards and specifications. The minimum diameter for storm sewers shall be 18-" in the public Right of Way (ROW) and the minimum size storm sewer catch basin lead shall be 15". The acceptable pipe material will be Ductile Iron Pipe (DIP) AWWA C-151 (ANSI A21.51) Class 52 or Reinforced Concrete Pipe (RCP) ASTM C-76 Class IV. For roof drainage system, Polyvinyl Chloride (PVC) ASTM 3034-77 SDR 26 and ASTM 1785-76 Schedule 40 pipes will be acceptable. The acceptable minimum and maximum velocities will be 2.5 fps and 15 fps, respectively. The storm sewers immediately upstream of the first manhole in the public Right of Way shall be owned and maintained privately (i.e., all storm drains not shown within an easement or in a public Right of Way shall be owned and maintained privately). (T&ES) (DSUP#2011-00008)

F-6 All sanitary sewers shall be constructed to the City of Alexandria standards and specifications. The minimum diameter of sanitary sewers shall be 10" in the public Right of Way and sanitary lateral 6" for all commercial and institutional developments; however, a 4" sanitary lateral will be acceptable for single family residences. The acceptable pipe materials will be Polyvinyl Chloride (PVC) ASTM 3034-77 SDR 26, ASTM 1785-76 Schedule 40, Ductile Iron Pipe (DIP) AWWA C-151 (ANSI A21.51) Class 52, or reinforced concrete pipe ASTM C-76 Class IV (For 12" or larger diameters); Class III may be acceptable on private properties. The acceptable minimum and maximum velocities will be 2.5 fps and 10 fps, respectively. Laterals shall be connected to the sanitary sewer through a manufactured "Y" of "T" or approved sewer saddle. Where the laterals are being connected to existing Terracotta pipes, replace the section of main and provide manufactured "Y" or "T", or else install a manhole. (T&ES) (DSUP#2011-00008)

F-7 Lateral Separation of Sewers and Water Mains: A horizontal separation of 10' (edge to edge) shall be provided between a storm or sanitary sewer and a water line; however, if this horizontal separation cannot be achieved then the sewer and water main shall be installed in separate trenches, and the bottom of the water main shall be at least 18" above of the top of the sewer. If both the horizontal and vertical separations cannot be achieved, then the sewer pipe material

shall be Ductile Iron Pipe (DIP) AWWA C-151 (ANSI A21.51) Class 52 and pressure tested in place without leakage prior to installation. (T&ES)

- F-8 Crossing Water Main Over and Under a Sanitary or Storm Sewer: When a water main over crosses or under crosses a sanitary/storm sewer then the vertical separation between the bottom of one (i.e., sanitary/storm sewer or water main) to the top of the other (water main or sanitary/storm sewer) shall be at least 18" for the sanitary sewer and 12" for storm sewer; however, if this cannot be achieved then both the water main and the sanitary/storm sewer shall be constructed of Ductile Iron Pipe (DIP) AWWA C-151 (ANSI A21.51) Class 52 with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing, and the pipes shall be pressure tested in place without leakage prior to installation. Sewers crossing over the water main shall have adequate structural support (concrete pier support and/or concrete encasement) to prevent damage to the water main. Sanitary sewers under creeks and storm sewer pipe crossings with less than 6" clearance shall be encased in concrete. (T&ES) (DSUP#2011-00008)
- F-9 No water main pipe shall pass through or come in contact with any part of sanitary/storm sewer manhole. Manholes shall be placed at least 10 feet horizontally from the water main whenever possible. When local conditions prohibit this horizontal separation, the manhole shall be of watertight construction and tested in place. (T&ES) (DSUP#2011-00008)
- F-10 Crossing Existing or Proposed Utilities: Underground telephone, cable T.V., gas, and electrical duct banks shall be crossed maintaining a minimum of 12" of separation or clearance with water main, sanitary, or storm sewers. If this separation cannot be achieved, then the sewer pipe material shall be Ductile Iron Pipe (DIP) AWWA C-151 (ANSI A21.51) Class 52 and pressure tested in place without leakage prior to installation. Sewers and water main crossing over the utilities shall have adequate structural support (pier support and/or concrete encasement) to prevent damage to the utilities. (T&ES)
- F-11 The rip rap shall be designed as per the requirements of Virginia Erosion and Sediment Control Handbook, Latest Edition. (T&ES)
- F-12 Dimensions of parking spaces, aisle widths, etc. within the parking garage shall be provided on the plan. Note that dimensions shall not include column widths. (T&ES)
- F-13 The applicant shall provide a transportation study that examines the impacts of proposed development on pedestrian, transit and vehicular traffic. (T&ES)
- F-14 The Plan shall call out various storm and sanitary sewer and water structures in the plan and profile views. (T&ES)
- F-15 Provide proposed elevations (contours and spot shots) in sufficient details on grading plan to clearly show the drainage patterns. (T&ES)
- F-16 All sanitary laterals and/or sewers are to be maintained by the City. (T&ES)

- F-17 A minimum of 30 feet separation between beginning of street corner radius and any driveway apron radius shall be maintained. (T&ES)
- F-18 Project lies partially within an area described on historical maps as containing marine clays. Construction methodology and erosion and sediment control measures must account for the presence (or absence) of marine clay or highly erodible soils. (T&ES)
- F-19 The applicant shall provide storage space for solid waste and recyclable materials containers as outlined in the City's "Solid Waste and Recyclable Materials Storage Space Guidelines", or to the satisfaction of the Director of Transportation & Environmental Services. The City's storage space guidelines and required Recycling Implementation Plan forms are available at: www.alexandriava.gov or contact the City's Solid Waste Division at 703-519-3486 ext.132. (T&ES)
- F-20 The site of the proposed impound lot is currently experiencing surcharged storm sewers that result in flooding of the site. The proposed plan includes interim drainage improvements to partially mitigate the drainage and flooding problems while the permanent solution is being implemented. The interim improvements include providing additional stormwater conveyance to the existing stormwater detention pond, constructed as part of DSUP #2006-00025. This detention facility has adequate detention capacity to manage additional flow as an interim condition. These minor improvements will help to improve the management of existing stormwater system without aggravating the existing conditions and creating any new problems or make the existing problems worse. It was determined by the City engineering staff that until the long-term improvements are constructed, the proposed storm water management improvements will minimally provide the desired relief. (T&ES) (DSUP#2011-00008)
- F-21 Additional stormwater improvements were identified during the completion of DSUP #2006-00025 as being necessary to alleviate flooding on the DASH site. These additional improvements include an additional storm sewer drainage system crossing the CSX railroad tracks. These additional improvements are currently budgeted in the CIP and approval for the sewer crossing is being negotiated with CSX. (T&ES) (DSUP#2011-00008)
- F-22 The plan must be prepared in compliance with the requirements of Memorandum to Industry 02-09 dated December 3, 2009. The memorandum is available at the following web address of the City of Alexandria
- (T&ES):http://alexandriava.gov/uploadedFiles/tes/info/Memo%20to%20Industry%20No.%2002 -09%20December%203,%202009.pdf (DSUP#2011-00008)
- C-1 All downspouts must be connected to a storm sewer by continuous underground pipe. (T&ES)
- C-2 All easements and/or dedications must be recorded prior to release of the plan. (T&ES)
- C-3 Plans and profiles of utilities and roads in public easements and/or public Right of Way must be approved prior to release of the plan. (T&ES)

- C-4 All drainage facilities must be designed to the satisfaction of T&ES. Drainage divide maps and computations must be provided for approval. (T&ES)
- C-5 Provide a phased erosion and sediment control plan consistent with grading and construction plan. (T&ES)
- C-6 Per the Memorandum to Industry, dated July 20, 2005, the applicant is advised regarding a requirement that applicants provide as-built sewer data as part of the final as-built process. Upon consultation with engineering firms, it has been determined that initial site survey work and plans will need to be prepared using Virginia State Plane (North Zone) coordinates based on NAD 83 and NAVD 88. Control points/Benchmarks which were used to establish these coordinates should be referenced on the plans. To insure that this requirement is achieved, the applicant is requested to prepare plans in this format including initial site survey work if necessary. (T&ES)
- C-7 Americans with Disability Act (ADA) ramps shall comply with the requirements of Memorandum to Industry No. 03-07 on Accessible Curb Ramps dated August 2, 2007 with truncated domes on the end of the ramp with contrasting color from the rest of the ramp. A copy of this Memorandum is available on the City of Alexandria website. (T&ES)
- C-8 The applicant shall comply with the City of Alexandria's Noise Control Code, Title 11, Chapter 5, which sets the maximum permissible noise level as measured at the property line. (T&ES)
- C-9 The applicant must comply with the Article XIII of the City of Alexandria Zoning Ordinance, which includes requirements for storm water pollutant load reduction, treatment of the water quality volume default, and storm water quantity management. (T&ES)
- C-10 The applicant must comply with the City of Alexandria, Erosion and Sediment Control Code, Section 5, Chapter 4. This includes naming a Responsible Land Disturber on the Erosion and Sediment Control sheets prior to engaging in land disturbing activities in accordance with Virginia Erosion and Sediment Control Law. (T&ES)
- C-11 All required permits from Virginia Department of Environmental Quality, Environmental Protection Agency, 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 VSMP permit for land disturbing activities greater than 2500 SF. (T&ES)
- C-12 All streets and alleys must comply with the City's Minimum Standards for Private Streets and Alleys. (T&ES)
- C-13 Provide City standard pavement for Emergency Vehicle Easements (EVE). (T&ES)

- C-14 All driveway entrances, sidewalks, curbing, etc. in the public ROW or abutting public ROW shall meet City design standards. (T&ES)
- C-15 Applicants will be required to submit a Recycling Implementation Plan form to the Solid Waste Division, as outlined in Article H to Title 5 (Ordinance Number 4438), which requires all commercial properties to recycle. (T&ES)

Alexandria Sanitation Authority

- C-1 Ensure all discharges are in accordance with the City of Alexandria Code 4035.
- R-1 Ensure that planned flow capacity does not exceed City of Alexandria allotted ASA plant capacity of 20.5.
- R-2 Ensure in writing to ASA that additional flow planned does not exceed flow capacity in ASA Interceptors and Trunk Sewers during wet and average flow conditions.
- R-3 Proposed construction and sewer discharge limits from new facility could be regulated by ASA Pretreatment. Provide a list of stored chemicals and clarify whether the bus wash/chassis wash is a closed loop.
- F-1 Detailed sanitary sewer flow calculations are not shown on plans.

Code Enforcement

- F-1 The proposed security gates shall be equipped with an override system that opens the gates in the event of a power failure, activation of a siren, or through the use of a Knox Box key. These features shall be designed and installed to the satisfaction of the Director of Code Enforcement.
- F-2 Provide a Fire Lane through the rear of the site on the proposed roadway. The Fire Lane shall be properly signed, 22 feet in width (minimum), have a minimum turning radii of R-25' and shall be free of parked vehicles at all times.
- F-3 Provide hydrant coverage along the front and rear of the structures. Fire hydrants serving fire department connections (FDC) shall be located no closer than 40 feet and no greater than 100 feet from each FDC; on site fire hydrants shall be spaced with a maximum distance of three hundred (300) feet between hydrants and the most remote point of vehicular access on site.
- F-4 Buildings shall be equipped with an automatic fire suppression system. Finding resolved.
- F-5 Provide two Siamese connections located to the satisfaction of the Director of Code Enforcement.
- F-6 A separate tap is required for the building fire service connection.

- F-7 The fire hydrant located near the stormwater retention pond shall be moved along the rear access driveway.
- F-8 All Emergency Vehicle Easements shall be designed to AASHTO HS-20 loading.
- F-9 The FDC located at the southeast corner of the building is further than 100 feet from a fire hydrant. The FDC or hydrant must be relocated to comply with code requirement C-1.
- C-1 The developer shall provide a separate Fire Service Plan which illustrates: a) emergency ingress/egress routes to the site; b) two fire department connections (FDC) to the building, one on each side/end of the building; c) fire hydrants located within on hundred (100) feet of each FDC; d) on site fire hydrants spaced with a maximum distance of three hundred (300) feet between hydrants and the most remote point of vehicular access on site; e) emergency vehicle easements (EVE) around the building with a twenty-two (22) foot minimum width; f) all Fire Service Plan elements are subject to the approval of the Director of Code Enforcement.
- C-2 The final site plans shall show placement of fire easement signs. See attached guidelines for sign details and placement requirements. Acknowledged by applicant, attached guidelines were hand distributed to the applicant on 3/13/2008.
- C-3 A soils report must be submitted with the building permit application.
- C-4 Prior to submission of the Final Site Plan #1, the developer shall provide a fire flow analysis by a certified licensed fire protection engineer to assure adequate water supply for the structure being considered.
- C-5 A Certificate of occupancy shall be obtained prior to any occupancy of the building or portion thereof, in accordance with USBC 119.0.
- C-6 A fire prevention code permit is required for the proposed operation at the time of application for a Certificate of Occupancy.
- C-7 New construction must comply with the current edition of the Uniform Statewide Building Code (USBC).
- C-8 Required exits, parking, and accessibility within the building for persons with disabilities must comply with USBC Chapter 11.
- C-9 This structure contains mixed use groups [B, Business; S-1, Moderate-Hazard Storage (motor vehicle repair garage), S-2, Low-Hazard Storage (public garage, group 2) and is subject to the mixed use and occupancy requirements of the USBC.
- C-10 Prior to the issuance of a demolition permit or land disturbance permit, a rodent abatement plan shall be submitted to Code Enforcement that will outline the steps that will taken to prevent the spread of rodents from the construction site to the surrounding community and sewers.

- C-11 Roof drainage systems must be installed so as neither to impact upon, nor cause erosion/damage to adjacent property.
- C-12 The public parking garage (Use Group S-2) is required to be equipped with a sprinkler system (USBC 903.2.9).
- C-13 The public parking garage floor must comply with USBC 406.2.6 and drain through oil separators or traps to avoid accumulation of explosive vapors in building drains or sewers as provided for in the plumbing code (USBC 2901). This parking garage is classified as an S-2, Group 2, public garage.
- C-14 Enclosed parking garages must be ventilated in accordance with USBC 406.4.2.
- C-15 This garage with a gross square footage of is required to have an automatic sprinkler system throughout the structure to be in compliance with USBC406.4.1 and 903.2.9.
- C-16 A fire protective signaling system is required in the B, Business use group area (offices) which are located two or more stories above the lowest level of exit discharge (USBC 907.2.2).
- C-17 Oil water separators are required where automobiles are services, greased, repaired, washed, or where gasoline is dispensed. The separator shall be designed and installed in accordance with the plumbing code.
- C-18 The developer shall declare on the plans if the parking structure is considered a public parking structure complying with Chapter 4 of the USBC or an open parking structure. If the structure is declared as an open parking structure, the developer shall submit information detailing how the structure meets the openness criteria. If the structure is declared a public parking structure, the plans shall reflect required water and sewer lines, FDC's and oil / water separator locations.
- C-19 The new handrails must comply with USBC for a minimum/maximum height of 30 to 34 inches. The ends must extend 12" beyond the top and bottom risers. The handgrip position must not be more that 2-1/4" in cross-sectional dimension, or the shape must provide an equivalent gripping surface. The handgrip portion must have a smooth surface with no sharp corners. The space between the wall and handrail must not be less that 1-1/2".
- C-20 The new stairs must comply with USBC for riser and tread dimensions.

Fire Department

- C-1 Steps shall be taken to prevent the leaking of any motor vehicle fluids onto the ground or parking surface. Including but not limited to drip pans for leaking or severely damaged vehicles. Lot shall maintain sufficient quantities of spill equipment on-site. (DSUP #2011-0008)
- C-2 Fence shall be equipped with a rapid entry system (KNOX BOX) and provided with a manual override system to allow emergency access. (DSUP #2011-0008)

APPLICATION



DEVELOPMENT SPECIAL USE PERMIT with SITE PLAN

	DSUP # 2025-1	10008	_ Project Name:	DASH Bus Facility Expansion	
PROPERT	Y LOCATION:	3000 Busine	ess Center Drive		
ТАХ МАР	REFERENCE:	061.04-02-20	6	ZONE:	
APPLICAI	NT:				
Name:	Bradley Of	tto, P.E.			
Address:					
DD∩DERT	Y OWNER:				
Name:		exandria, VA			
Address:		ness Center [Drive		
SUMMAR	Y OF PROPOSA	Verification Set -E	OSUP Site Plan Submission to acco	ommodate the construction of a bus chargir	ng facility for DASH.
MODIFICA	ATIONS REQUI	ESTED			
SUP's RE	QUESTED Verifi	ication Set Site Pla	an (DSUP)		
			for Development Site Plan v g Ordinance of the City of A	with Special Use Permit approval llexandria, Virginia.	in accordance
— Alexandria to		e on the property f	for which this application is	erty owner, hereby grants permiss requested, pursuant to Article XI,	
drawings, etc	c., required of the ap		correct and accurate to the l	in provided and specifically includ best of his her knowledge and bel	
	Otto, P.E. f Applicant or Agent		Signature	May we	
Mailing/Street		<u> </u>	Telephone #	Fax #	
City and State	<u>,</u>	Zip Code	 Email address		
only and the	,	21p 0000	5-28-2025		
			Date		
		DO NOT WRIT	E IN THIS SPACE - OFFI	ICE USE ONLY	
	Received:			ans for Completeness:	<u> </u>
Fee Paid an			Received Pi	lans for Preliminary:	
ACTION - P	LANNING COMMISS	ION:			
ACTION - C	ITY COUNCIL:				

Development SUP #	
-	

ALL APPLICANTS MUST COMPLETE THIS FORM.

Supplemental forms are required for child care facilities, restaurants, automobile oriented uses and freestanding signs requiring special use permit approval.

1.	The applicant	t is: (check one)			
	OThe Owner	Contract Purchaser	OLessee or	Other: Design-Builder	of
	the subject prop	perty.			

State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership in which case identify each owner of more than three percent.

Keller Construction Management, a division of Keller Brothers, Inc. (Design-Builder) Phillip Keller, Jr. - 100% owner

Applicant
Bradley J. Otto, P.E.
Senior Preconstruction Manager

If property owner or applicant is being represented by an authorized agent, such as an attorney, realtor, or other person for which there is some form of compensation, does this agent or the business in which the agent is employed have a business license to operate in the City of Alexandria, Virginia?

Yes. Provide proof of current City business license. ATTACHED TO THIS APPLICATION
 No. The agent shall obtain a business license prior to filing application, if required by the City Code.

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

<u>1. Applicant.</u> State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
^{1.} Phillip Keller, Jr.		100%
2.		
3.		

Name	Address	Percent of Ownership
^{1.} City of Alexandria, VA		100%
2.		
3.		

3. BusinessorFinancialRelationships. Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose any business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review.

Name of person or entity	Relationship as defined by	Member of the Approving
	Section 11-350 of the Zoning Ordinance	Body (i.e. City Council, Planning Commission, etc.)
1.	Gramanes	riaming Commission, see.
2.		
3.		
0.		

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my
ability that the information provided above is true and correct.

5-28-2025	Bradley J. Otto, P.E.	District Till
Date	Printed Name	Signature

C.	Where is required parking located? (check one) on-site off-site
	If the required parking will be located off-site, where will it be located?
	Pursuant to section 8-200 (C) of the zoning ordinance, commercial and industrial uses may provide off-site parking within 500 feet of the proposed use, provided that the off-site parking is located on land zoned for commercial or industrial uses. All other uses must provide parking on-site, except that off-street parking may be provided within 300 feet of the use with a special use permit.
D.	If a reduction in the required parking is requested, pursuant to section 8-100 (A) (4) or (5 of the zoning ordinance, complete the Parking Reduction Supplemental Application.
Provi	de information regarding loading and unloading facilities for the use:
A.	How many loading spaces are required for the use, per section 8-200 (B) of the
	zoning ordinance? N/A
B.	How many loading spaces are available for the use? N/A
C.	Where are off-street loading facilities located? N/A
D. TBD	During what hours of the day do you expect loading/unloading operations to occur? depending on owner operations.
E. TBD	How frequently are loading/unloading operations expected to occur, per day or per week, as appropriate? depending on owner operations.
In -4-	

14.

15. Is street access to the subject property adequate or are any street improvements, such as a new turning lane, necessary to minimize impacts on traffic flow?

Entry to site from Business Center Drive will be improved as shown on plans.



2025 City of Alexandria Business License

Finance Department, Revenue Administration Division, City of Alexandria 301 King Street, Room 1700, Alexandria, VA 22314 Phone: 703.746.4800 http://www.alexandriava.gov/

License Number:

143086-2025

Account Number:

143086

Tax Period:

2025

Business Name:

Keller Brothers, Inc.

Trade Name:

Keller Brothers, Inc

Business Location: No City Address

Mount Airy, MD 21771

License Classification(s):

Out of State Contractor 0-000-000 Out of State Contractor

Keller Brothers, Inc.

February 14, 2025

Dear Taxpaver:

This is your 2025 City of Alexandria Business License. The bottom portion of this page is perforated to allow you to tear off and post the business license in your establishment.

If you paid for your business license via check, please be aware that if your check is not honored by your financial institution, this business license shall be invalid.

As with all taxes, our goal is to administer Business License taxes fairly and in accordance with Commonwealth and Locality code, Our staff strives to provide professional assistance and quality customer service. Your satisfaction is important to us and your comments are always welcome.

If you have any questions regarding this letter, please visit http://www.alexandriava.gov/ or contact my office via phone at 703,746.4800.

Finance Department, Revenue Administration Division, City of Alexandria

Keep this letter for your records.

City of Alexandria Business License

Revenue Administration Division, City of Alexandria, 301 King Street, Room 1700, Alexandria, VA 22314

License Number:

143086-2025

Account Number:

143086

Tax Period:

2025

Business Name:

Keller Brothers, Inc

Trade Name:

Keller Brothers, Inc

Business Location:

No City Address

Keller Brothers, Inc. No City Address

is granted to:

This license has been issued by the Revenue

Administration Division of the City of Alexandria and

License Classification(s):

Out of State Contractor 0-000-000

Out of State Contractor

DASH BUS FACILITY EXPANSION

CITY OF ALEXANDRIA

VERIFICATION SUBMISSION - MAY 27, 2025

DSUP #2025-10008 RRMM ARCHITECTS, PC

ARCHITECTURE / PLANNING / INTERIORS

1317 Executive Boulevard, Suite 200 Chesapeake, VA 23320 (757) 622-2828

115 South 15th Street, Suite 502 Richmond, VA 23219 (804) 277-8987

2900 South Quincy Street, Suite 710 Arlington, VA 22206 (703) 998-0101

28 Church Avenue SW Roanoke, VA 24011 (540) 344-1212

OWNER

A-004 A-101

3700 Koppers Street, Suite 300 Baltimore, MD 21227 (410) 234-8444



CONSULTANTS

KELLER CONSTRUCTION MANAGEMENT A DIVISION OF KELLER BROTHERS, INC. DESIGN-BUILDER

1012 Rising Ridge Road Mt Airy, MD 21771 301-607-9300

A. MORTON THOMAS & ASSOCIATES, INC. CIVIL ENGINEERING 3076 Centreville Road, Suite 220

Herndon, VA 20171 703-817-1373

KCI TECHNOLOGIES INC

MEP & STRUCTURAL ENGINEERING 11830 West Market Place, Suite F Fulton, MD 20759 412-824-7047

CITY OF ALEXANDRIA, VIRGINIA **DEPARTMENT OF GENERAL SERVICES** 421 King Street, Suite 220

Alexandria, VA 22314 Contact: Jenine Kotob, AIA Phone: 703-346-2611



SHEET INDEX II DSLIP AND CODE REQUIREMENTS DSUP AND CODE REQUIREMENTS DSLIP AND CODE REQUIREMENTS GENERAL NOTES GENERAL NOTES TREE INVENTORY AND CONDITIONS ANALYSIS TREE PRESERVATION PLAN AND NARRATIVE FROSION AND SEDIMENT CONTROL PLAN - PHASE I EROSION AND SEDIMENT CONTROL PLAN - PHASE II EROSION AND SEDIMENT CONTROL NOTES ROSION AND SEDIMENT CONTROL DETAILS DIMENSION PLAN FIRE SERVICE ACCESS PLAN MAINTENANCE OF TRAFFIC PLAN CONTEXTUAL AND OPEN SPACE PLAN /EHICULAR MOVEMENTS PLAN

STORM SEWER PROFILES

SITE DETAILS LITH ITY DETAILS STORM WATER MANAGEMENT PLAN STORMWATER MANAGEMENT OLIANTITY ANALYSIS STORMWATER MANAGEMENT QUANTITY ANALYSIS TORMWATER MANAGEMENT QUALITY ANALYSIS ADFOLIATE OUTFALL ANALYSIS STORMWATER MANAGEMENT DETA C-901 SOIL BORINGS LANDSCAPE PLAN LANDSCAPE NOTES AND DETAILS STRUCTURAL GENERAL NOTES STRUCTURAL GENERAL NOTES STRUCTURAL SCHEDULES FOUNDATION AND SLAB ON GRADE PLAN S-102 S-103 S-104 CANORY ROOF FRAMING PLAN ROOF DECK ATTACHMENT PLAN STRUCTURAL SECTIONS TYPICAL FOUNDATION DETAILS TYPICAL FOUNDATION DETAILS OLUMN FOUNDATION DETAIL: TYPICAL STEEL DETAILS

SHEET INDEX II

SHEET INDEX II SHEET INDEX II ELECTRICAL SITE PLAN RTU SUPPORT AT TOPPED METAL DECK ELECTRICAL POWER PLAN ROOF FRAMING DETAILS ELECTRICAL POWER PLAN - EQUIPMENT PLATFORI ROOF FRAMING DETAILS ELECTRICAL LIGHTING PLAN - FIRST ELOOR ELECTRICAL LIGHTING PLAN - EQUIPMENT PLA ROOF FRAMING DETAILS ELECTRICAL DETAILS I ROOF FRAMING DETAILS ELECTRICAL DETAILS II ELECTRICAL DETAILS III ELECTRICAL ONE LINE DIAGRA YPICAL MASONRY DETAILS TYPICAL METAL STUD DETAIL ELECTRICAL SCHEDULES LIFE SAFETY LIFE SAFETY PLANS & SUPPORTING DATA

ARCHITECTURA FLOOR AREA ANALYSIS FOLIPMENT PLATFORM AND LOW ROOF PLAN HIGH ROOF PLAN BUILDING ELEVATIONS - RENDERE RIGHT-OF-WAY ELEVATION SITE SECTIONS BUILDING SECTIONS

A-301 PLUMBING COVER SHEE PLUMBING ROOF PLAN

DASH BUS FACILITY EXI City of Alexandria, \

В

MARK

Arlington, Virginia 22206 (703)998-0101

05.27.2025

SHEET

G-001

TYPICAL STEEL DECK DETAILS

DASH BUS FACILITY EXPANSION CITY OF ALEXANDRIA

NOT FOR CONSTRUCTION

ENVIRONMENTAL SITE ASSESSMENT

THE SITE IS LOCATED WITHIN THE CHESAPEAKE BAY PRESERVATION AREA, AND THE CAMERON RUN WATERSHED. ACCORDING TO CITY OF ALEXANDRIA GIS

SOILS DATA

66 KINGSTOWNE SANDY CLAY LOAM (0-45% SLOPES) 95 URBAN LAND

A COMPLETE SOILS INVESTIGATION HAS NOT BEEN PERFORMED BY AMT. NO MARINE CLAYS WERE SHOWN ON SOIL MAP FOR THIS SITE PER USDA NRCS SOIL DATA EXPLORATION. THE SITE WAS USED AS AN IMPOUND LOT PREVIOUSLY. NO KNOWN HISTORIC TEMS OF SIGNIFICANCE ARE PRESENT.

PROJECT DESCRIPTION NARRATIVE

THE EXISTING DASH BUS FACILITY IS LOCATED AT 3000 BUSINESS CENTER DRIVE IN ALEXANDRIA, VIRGINIA. THE FACILITY IS LOCATED WEST OF THE CITY OWNER WITTERS WHEELER CAMPUS, AND LIES WITHIN THE YING STREET, FEISCHNICK/MES AVENUE SMALL, REIS AND BE 2000ED DRICHSTRAL, III. THE FACILITY OF THE PROJECT PROPOSES TO CONSTRUCT A NEW CAMPUS TOTION. THE PROJECT PROPOSES TO CONSTRUCT A NEW CAMPUS THOUGHD LOT. THE STREET AS FACILITY, CURRENTLY USED AS AN INFORMER OF THE ADDITIONAL BUSINESS. THE PROPOSED EXPRESSION IS LOCATED TO THE WEST OF THE DISTING DASH BUS FACILITY, CURRENTLY USED AS AN INFORMER OF THE STREET AND ADDITIONAL SECRETARY OF THE STREET AND ADDITIONAL SECRETARY OF THE STREET ADDITIONAL TO REPORT USED AS AN INFORMER OF THE STREET ADDITIONAL TO REPORT USED AS AN INFORMER OF THE STREET ADDITIONAL TO REPORT USED AS AN INFORMATION OF THE ADDITIONAL SCALE BEAUTY OF THE STREET ADDITIONAL TO REPORT USED AS AN INFORMATION OF THE ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL TO REPORT USED AS AN INFORMATION OF THE ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL TO REPORT USED AS AN INFORMATION OF THE ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL TO REPORT ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL TO REPORT ADDITIONAL TO REPORT ADDITIONAL TO REPORT ADDITIONAL TO REPORT ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL TO REPORT ADDITIONAL SCALE BEAUTY OF THE ADDITIONAL SCALE B

AREA TABULATIONS

TOTAL SITE AREA = 1.51 AC 65,612 SF

TOTAL AREA OF TAX PARCEL = 9.21 AC 401,240 SF

TOTAL EXISTING IMPERVIOUS AREA = 1.04 AC 45,293 SF TOTAL PROPOSED IMPERVIOUS AREA = 1.29 AC 56,041 SF DISTURBED AREA OFFSITE= 0 AC 0 SF DISTURBED AREA ONSITE= 1.51 AC 65,612 SF TOTAL DISTURBED AREA = 1.51 AC 65,612 SF

SANITARY OUTFALL ANALYSIS

THIS DEVELOPMENT DOES NOT PRODUCE SANITARY SEWER DISCHARGES. THE PROJECT IS NOT LOCATED IN A COMBINED SEWER AREA.

NOISE ASSESSMENT

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, AND DIVISION 01 SPECIFICATION REQUIREMENTS WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS: I MONDAY THROUGH FRIDAY FROM 7 AM TO 5 PM AND

I SATURDAY AND SUNDAY WORK MAY BE EXECUTED AT ALL HOURS WITH 5 DAYS PRIOR NOTICE AND APPROVAL OF THE OWNER

NOTES

CONTRACTOR SHALL ENSURE ALL DISCHARGES ARE IN ACCORDANCE WITH CITY OF ALEXANDRIA CODE TITLE 5, CHAPTER 6, ARTICLE B. DEWATERING AND OTHER CONSTRUCTION RELATED DISCHARGE LIMITS TO THE SEWER SYSTEM ARE REGULATED BY ALEXRENEW PRETERLATING. CONTRACTOR IS REQUIRED TO CONTACT LALE NERWEY PRETERLATING COORDINATOR AT 703-549 31 (2020.)

SPECIAL USE PERMITS/ZONING MODIFICATIONS/WAIVERS

PRIOR DEVELOPMENT SPECIAL USE PERMITS:

1. DSUP 2006-0025 - ORIGINAL APPROVAL OF THE DASH FACILITY AS A PUBLIC BUILDING
2. DSUP 2011-00006 - AMENOMENT TO NCLUDE AN IMPOUND LOT

REQUESTED DEVELOPMENT APPROVAL:

1. DEVELOPMENT SPECIAL USE PERMIT TO AMEND DSUP 2011-00008 TO ADD A NEW PUBLIC BUILDING IN THE INDUSTRIAL ZONE.

PROJECT TEAM

CITY OF ALEXANDRIA, VA DEPARTMENT OF GENERAL SERVICES 421 KING STREET, SUITE 220 ALEXANDRIA, VA 22314 CONTACT: JENINE KOTOB

PROJECT SPONSOR: CT SPONSOR: ALEXANDRIA TRANSIT COMPANY (DASH) ALEXANDRIA HANSIT COMPANY 3000 BUSINESS CENTER DRIVE ALEXANDRIA, VA 22314 CONTACT: RAYMOND MUI PHONE: (703) 746-5645

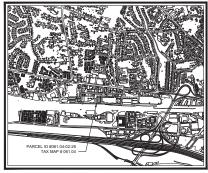
GENERAL CONTRACTOR: KELLER BROTHERS
1012 RISING RIDGE ROAD
MT. AIRY, MD 21771
CONTACT: BRAD OTTO, PE
PHONE: (301) 607-9300 x 302

ARCHITECT & INTERIORS: HILECT & INTERIORS: RRMM ARCHITECTS 2900 SOUTH QUINCY STREET ARLINGTON, VA 22206 CONTACT: KEITH LEONARD, AIA, LEED AP PHONE: (703) 677-5653

CIVIL ENGINEER:
A. MORTON THOMAS AND ASSOCIATES, INC.
3076 CENTREVILLE ROAD, SUITE 220
HERNDON, VIRGINIA 20171
CONTACT: CHELSEA BISHOP, PE
PHONE: (703) 635-1503

STRUCTURAL ENGINEER: JECTORAL ENGINEER: KCI TECHNOLOGIES, INC. 11830 WEST MARKET PLACE, SUITE F FULTON, MD 20759 CONTACT: COREY SHANK, PE PHONE: (410) 527-4405

VICINITY MAP



SCALE: 1"=1000'

ZONING TABULATIONS

1. ZONE OF SITE: I-INDUSTRIAL

2. USE: EXISTING: (PUBLIC BUILDING) BUS OPERATIONS FACILITY AND IMPOUND LOT PROPOSED: (PUBLIC BUILDING) PROPOSED CANOPY STRUCTURE FOR 24 ADDITIONAL BUSES WITH EV CHARGING

3. LOT AREA: 9.21 AC (401,240 SF) MINIMUM LOT AREA: N/A 4. NUMBER OF DWELLING UNITS: N/A

5. UNITS PER ACRE: N/A

6. GROSS SQUARE FOOTAGE (GSF):

EXISTING:

OFFICE: MAINTENANCE GSF 6,302 SF ADMINISTRATION 8,528 SF TRANSPORTATION

11,037 SF 25.887 SF SUB-TOTAL NON-OFFICE: MAINTENANCE 22.318 SF

SERVICE BUS STORAGE PARKING UNDER THE RAMP 18,121 SF 90,201 SF (NOT INCLUDED IN PARKING CALC) 3,319 SF

AREA UNDER ENTRY CANOPY 130 SF AREA UNDER PARTS CANOPY 222 SF 134,311 SF SUB-TOTAL

TOTAL GROSS: 160,178 SF

PROPOSED: 14,850 SF PROPOSED TOTAL (GSF): 175.028 SF

7. NET SQUARE FOOTAGE (NSF):

USE NSF FIRST FLOOR: BUS STORAGE

80 281 SE MAINTENANCE

SECOND FLOOR: ADMINISTRATION

TRANSPORTATION TOTAL NET: 150.963 SF

8 FLOOR AREA RATIO:

PROPOSED: 0.0370 TOTAL: 0.4362 (MAX. ALLOWABLE IS 0.85)

EXISTING: 119,744 SF PROPOSED: 109,488 SF

10. AVERAGE FINISHED GRADE: 40.08' TO 41.00'

11. HEIGHT:

EXISTING: 38.1 FT

PROPOSED: 35.25 FT (MAX. ALLOWABLE IS 50 FEET)

12. YARDS/SETBACKS: N/A

13. FRONTAGE: N/A

14. PARKING SUMMARY: (BUS STORAGE/PARKING IS EXCLUDED FROM THE PARKING SUMMARY)

RRWINS SUMMARY: (BUS STORAGEPARKING IS EXCLUDED FROM THE PARKING SUMMARY)

ENGUIRED. 25 (ENSTING DASH FACILITY)

556 (BADA ACCESSIBLE, ADDITIONAL 11 MOTORCYCLE PARKING SPACES

SURFACE. 22 (1 ADA ACCESSIBLE)

PROPOSED. 20

15. LOADING SPACES: PROPOSED: N/A

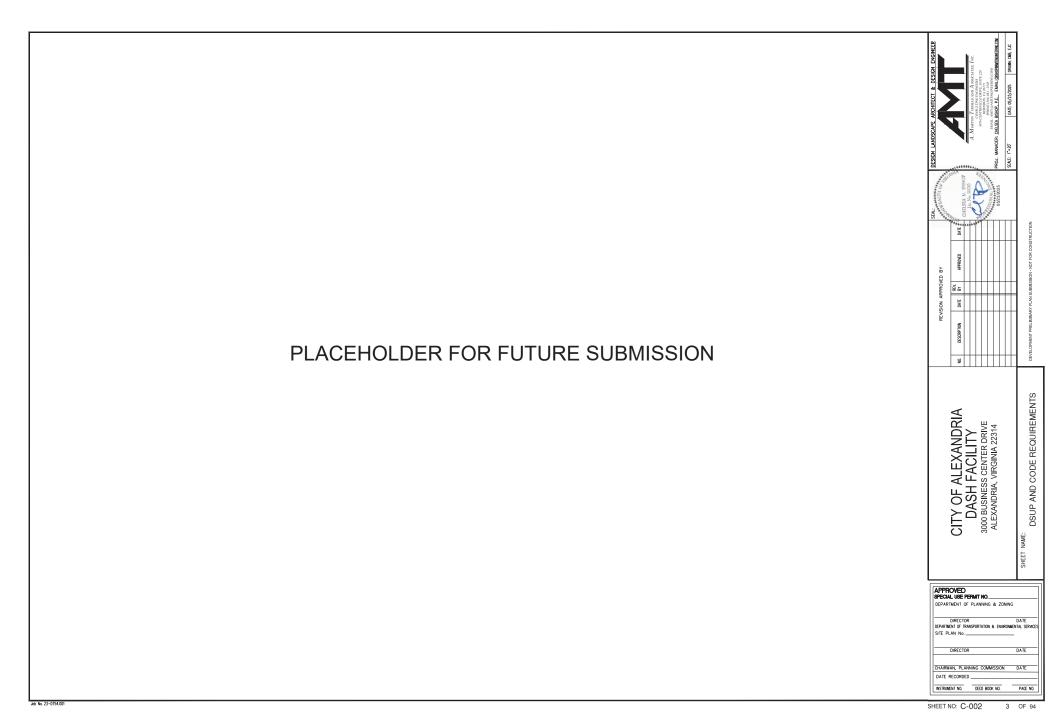
PR. CITY OF ALEXANDRIA DASH FACILITY SOOD BUSINESS CENTER DRIVE ALEXANDRIA, VIRGINIA 22314

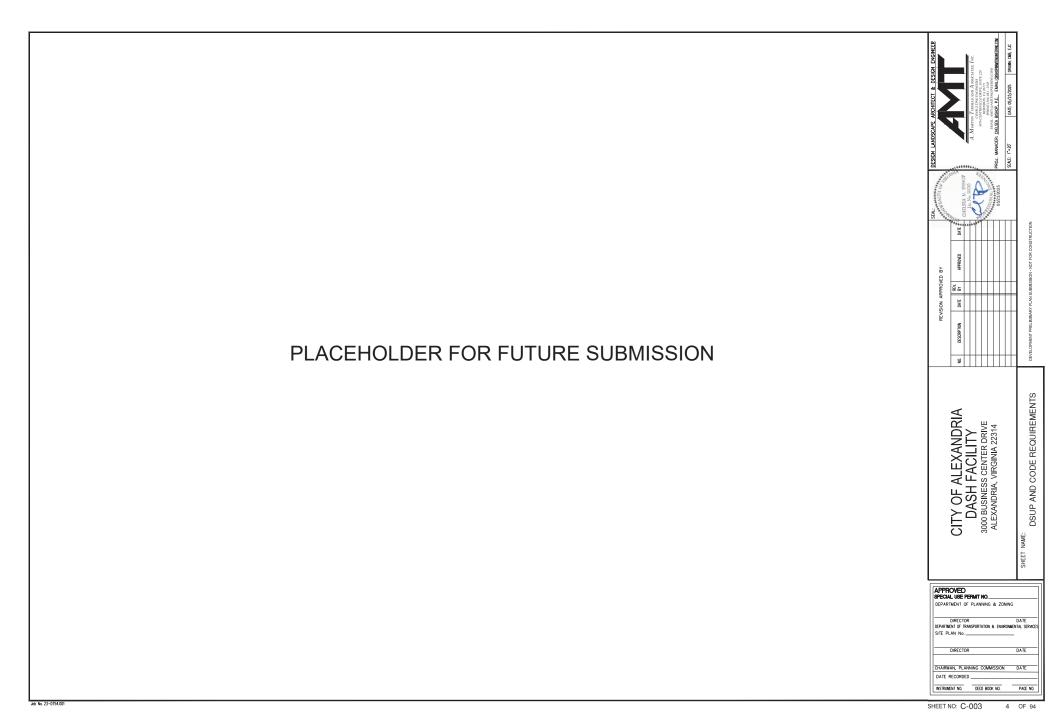
APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION DATE DATE RECORDED INSTRUMENT NO. DEED BOOK NO.

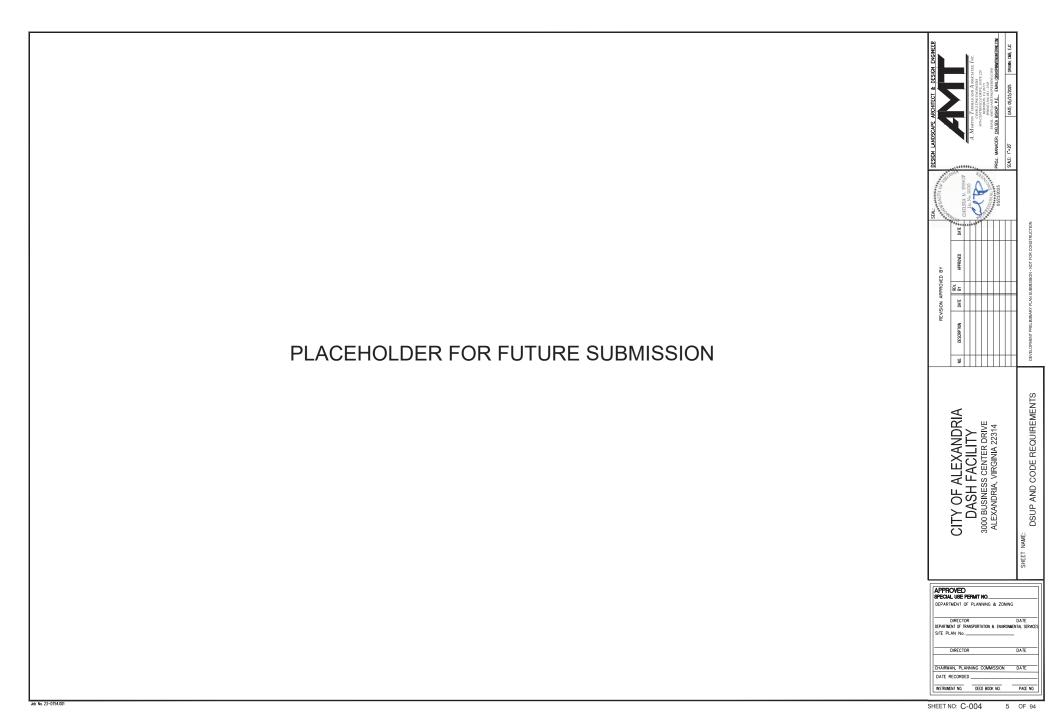
SHEET NO: C-001 2 OF 94

SHEET

COVER (







THE FOLLOWING GENERAL NOTES ARE CONSISTENT WITH THE CITY OF ALEXANDRIA MEMORANDUM TO INDUSTRY NO. 02-09 DATED DECEMBER 3, 2009 AND HAVE BEEN AMENDED AS APPLICABLE FOR THIS PARTICULAR SITE:

THIS PROJECT IS TO BE COMPLETED USING A DESIGN/BUILD CONTRACT

EXISTING CONDITIONS SURVEY NOTES:

- HORIZONTAL DATUM: VIRGINIA STATE PLANE NORTH, NAD83 (2011) VERTICAL DATUM: NAVD 88.
- UTILITY INFORMATION, AS SHOWN ON THIS PLAN, IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY MARKED BY AMT, INC. ON 12/04/2024 AND COMPLETED BY AMT. DATED 12/11/2024: AND CANNOT DE GUARANTEED.
 - UTILITY DEPICTIONS SHOWN HEREON CONFORM TO QUALITY LEVELS AS DEFINED BY CI / ASCE STANDARD 38-22.
 - · UTILITY QUALITY LEVELS ARE DEFINED AS FOLLOWS
 - a. QUALITY LEVEL "A" (CL.A") "LOCATINE"
 INVQLVES THE USEG OF NONDESTRUCTIVE DIGGING EQUIPMENT AT CRITICAL POINTS TO DETERMINE THE PRECISE HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS. D. QUALITY LEVEL "B" (CL.B.)" DESIGNATING"
 - INVOLVES THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF UNDERGROUND UTILITIES.
 - INVOLVES SURVEYING VISIBLE ABOVEGROUND UTILITY FACILITIES, SUCH A MANHOLES, VALVES BOXES, POSTS, ETC., AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.
 - d. QUALITY LEVEL "D" (QL-D) INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.
 - THE SUBSURFACE UTILITIES DEPICTED HEREON AT OUALITY LEVEL: "BY REPRESENT THE REMOTELY SENSED INDICATION OF THE SUBSURFACE UTILITY. UTILITY PIPE SIZES AND CONFIGURATIONS (IF DENOTED) HAVE BEEN TAKEN FROM RECORD DRAWINGS AND ACCESSIBLE FIELD EVIDENCE. THE ACTUAL LOCATION, SIZE AND EXTENT OF ALL SUBSURFACE UTILITIES MUST BE DETERMINED THROUGH TEST HOLE OR OTHER OUALITY LEVEL: "A" INVESTIGATION METHODS.
 - AN EFFORT HAS BEEN MADE TO DEPICT UTILITIES AT QL "B". SOME UTILITIES MAY BE SHOWN AT QL "C" OR QL "D" AS NECESSARY AND ARE LABELED ACCORDINGLY.

FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY AT 1800-25-777 AND 811 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION. THE CONSTRUCTION WORKERS AND CONTRACTORIS, ARE ENCOURAGED TO VISIT DOMINION VIRGINIA POWER WEB SITE AT WWW.DOM.COM (KEYWORD SAFETY) FOR ADDITIONAL SAFETY WISTDICTIONS.

- LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 CONTRACTOR/ENGINEER SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION.
- PROPERTY INFORMATION SHOWN HEREON WAS TAKEN FROM DEEDS OF RECORD AND BEST FIT TO FIELD FOUND EVIDENCE AND DOES NOT REPRESENT A BOUNDARY SURVEY.

CITY STANDARD GENERAL NOTES:

- THE SUBJECT SITE IS LOCATED ON CITY OF ALEXANDRIA ASSESSMENT MAPS 061.04 AND 071.02 AS PARCEL 061.04-02-26 AND ZONED I - INDUSTRIAL.
- OWNER: CITY OF ALEXANDRIA DEPARTMENT OF GENERAL SERVICES 421 KING STREET, SUITE 220 ALEXANDRIA, VA 22314
- 3. INSTRUMENT# 090001513
- 4. ADDRESS: 3000 BUSINESS CENTER DR., CITY OF ALEXANDRIA, VIRGINIA.
- AREA TABULATION: 9.21 ACRES (401,240 SF) SEE COVER SHEET UNDER AREA TABULATIONS.
- THE NATURAL SOILS: PER NRCS CITY OF ALEXANDRIA, VA SOILS MAP, THE SITE IS PREDOMINANTLY KINGSTOWN SANDY CLAY LOAM, 0-45% SLOPES, WITH SOME URBAN LAND.
- THE SITE IS LOCATED IN THE CAMERON RUN (CENTER) WATERSHED PER CITY OF ALEXANDRIA GIS.
- 8. CONSTRUCTION PERMITS ARE REQUIRED FOR THE 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.
- 9. ALL PUBLIC AND PRIVATE EASEMENTS OR ALL KNOWN PUBLIC AND PRIVATE EASEMENTS. INCLIDING 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 OTHER WISE APPROVED BY THE PLANNING COMMISSION AND CITY OF ALEXANDRIA COUNCIL
- 10. PLAT SUBJECT TO RESTRICTIONS OF RECORD.

- ALL NEW CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND THE THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC).
- 12. PRIOR TO COMMENCING NEW WORK, THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING PUBLIC NEPASTRICTURE. INCLUDING BUT NOT LIMITED TO STREETS, ALLEYWAYS, DRIVEWAY APRONS, SANITARY AND STORM SEWERS, STREET LIGHTING, TRAFFIC AND PEDESTRIAN SIGNALS, SIDEWALKS, CURB AND GUTTER, AND STORM WATER DROP NILET STRUCTURES ARE DAMAGED BY THE CONTRACTOR OR BY ACTIVITIES RELATING TO THE SITE CONSTRUCTION THEN THE APPLICANT SHALL REPAIR THE SAME TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES (TASS). A PRE-COASTRUCTION THAN STRUCTURE OF THE STRUCTURE STRUCTURE STRUCTURE OF THE STRUCTURE STRUC
- ALL IMPROVEMENTS TO THE CITY'S RIGHT-OF -WAY SUCH AS CURB, GUTTER SIDEWALK, AND DRIVEWAY APRONS, ETC., ARE DESIGNED IN ACCORDANCE WITH THE LATEST CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS.
- 14. 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 LATEST CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES RICES.
- 15. CONTRACTOR MUST ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES WITHOUT RECORDED EASEMENT OR NOTARIZED LETTER OF PERMISSION FROM THE ADJACENT PROPERTY OWNERS.
- 16. ALL REQUIRED STATE AND FEDERAL PERMITS, WHICH COULD INCLUDE PERMITS FROM THE VIRIGINAD DEPARTMENT OF CONSERVATION AND REGREATION (VDCR), VIRIGINAD DEPARTMENT OF ENVIRONMENTAL QUALITY/VDCRO, VIRIGINA DEPARTMENT OF INSTORIC RESOURCES (VDHR) UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), ARMY CORPS OF FERNINEERS AND VIRIGINA MARIEM RESOURCES COMMISSION, MUST BE IN PLACE FOR ALL PROJECT CONSTRUCTION AND MITIGATION WORK PRIOR TO RELEASE OF THE GRADINE PLAN. THIS INCLUDES THE STATE REQUIREMENT FOR A VIRIGINA STORMWATER MANAGEMENT PROGRAM (VSMP) GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2.50. INFORMATION ATTOMICS WAS CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2.50. INFORMATION REGARDING THE VSMP GENERAL PERMIT CAN BE FOUND ONLINE AT:
- 17. PERMITS FROM THE CITY OF ALEXANDRIA OFFICE OF ENVIRONMENTAL QUALITY (OEO,) TRANSPORTATION AND ENVIRONMENTAL SERVICES (TALES), AND BULLDING AN FIRE CODE ADMINISTRATION SHALL BE OBTAINED BY THE APPLICANT, AS REQUIRED AND DOCUMENTED HERBIN, THE CONTRACTOR CAN CONTACT A LEXANDRIA FIRE AND CODE ADMINISTRATION DEPARTMENT AT (703) 838-4644 OR (703) 746-420 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION
- 18. 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.
- 19. THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE OCCURS ON SITE TO PREVENT PONDING OR DRAINAGE PROBLEMS RESULTING FROM THIS PROJECT ON AD JACENT PROPERTIES.
- 20. A SEPARATE DESIGN IS REQUIRED FOR ALL WALLS 24" AND OVER IN HEIGHT FROM THE GRADE AND SUBJECT TO SEPARATE PERMITS TO BE OBTAINED BY THE OWNERS. GEOTECHNICAL AND STRUCTURAL DESIGN IS TO BE COMPLETED BY OTHERS. THIS PLAN SHOWS LOCATION, PROPOSED GRADING, AND BASIS OF DESIGN OF RETAINING WALLS.
- 21. ALL SANITARY LATERALS AND/OR SEWERS NOT SHOWN IN THE EASEMENTS SHALL BE OWNED AND MAINTAINED PRIVATELY.
- 22. ALL STORM DRAINS NOT SHOWN WITHIN AN EASEMENT OR IN A PUBLIC RIGHT OF WAY SHALL BE OWNED AND MAINTAINED PRIVATELY.
- 23. ALL WATER FACILITY CONSTRUCTION SHALL CONFORM TO VIRGINIA AMERICAN WATER COMPANY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONTACT VIRGINIA AMERICAN WATER COMPANY AT (703) 549-7080 TO COORDINATE CONSTRUCTION AND INSPECTION OF WATER FACILITIES.
- 24. THE SIDEWALKS SHALL BE CLOSED PER SHEET C-112 DURING CONSTRUCTION OR PEDESTRIAN ACCESS SHALL BE MAINTAINED TO THE SATISFACTION OF THE DIRECTOR OF THANSPORTATION AND ENVIRONMENTAL SERVICES THROUGHOUT THE CONSTRUCTION OF THE

EMERGENCY VEHICLE EASEMENT NOTE

ALL EMERGENCY VEHICLE EASEMENTS ARE SHOWN ON THE PLAN AND SHALL BE RECORDED WITH ALEXANDRIA LAND RECORDS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
- 2. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA; THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK, VERSION 11; AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS (VIRGINIA ADMINISTRATIVE CODE 9YAC25-87S).

- 3. A "CERTIFIED LAND DISTURBER" (CLD) SHALL BE NAMED IN A LETTER TO THE DIVISION CHIEF OF CONSTRUCTION AND INSPECTION (CAI), DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITIES. IT THE CLD CHANGES DURING THE PROJECT, THAT CHANGE MUST BE NOTED IN A LETTER TO THE DIVISION CHIEF. A NOTE TO THIS EFFECT SHALL BE PLACED ON THE PHASE I EROSION AND SEDIMENT CONTROL SHEETS ON THE SITE PLAN.
- 4. THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, CONSTRUCTION AND INSPECTION (CAI) DIVISION MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE RESPONSIBLE CERTIFIED LAND DISTURBER (CLD) SHALL ATTEND THE PRE-CONSTRUCTION MEETING.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES INTENDED TO CONTROL EROSION AND TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND IDSTURBANCE TAKES PLACE.
- CONSTRUCTION SHALL BE SEQUENCED SUCH THAT GRADING OPERATION CAN BEGIN AND END AS QUICKLY AS POSSIBLE. AREAS NOT TO BE DISTURBED MUST BE CLEARLY MARKED OR FLAGGED.
- AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE ANY CLEARING OR GRADING CAN BEGIN.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BYTHE CITY OF ALEXANDRY.
- 10. THE DEVELOPER AND CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM PERMANENT OR TEMPORARY SOIL STREILZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 ANY PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LETT DORMAN OF MINIMUM AND MORE THAN 000 THE A, NOT STOCKINED BM TERMA THAN 100 THE OFFICE BM TEMPORATY VEGETATION AND MULCHED WITH STRAW MULCH OR TOTHERWISE STABILIZED.
- 11. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS AFTER GRADING.
- 12. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- 13. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED THROUGH AN APPROVED FILTERING DEVICE OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY IMPACT FLOWING STREAMS OR OFF-SITE
- 14. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY
- 15. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL (TAES) SERVICES OF THE CITY OF ALEXANDRIA.
- 16. ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCED 2.500 SQUIABE FEET SHALL BE SODDED AND PEGGED FOR STABLY AND EROSION CONTROL. AT THE COMPLETION OF THE PROLECT AND PRIOR TO THE THE RELEASE OF THE BOND, ALL DISTURBED AREAS SHALL BE STABILIZED PERMANENTLY AND ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED.
- 17. ALL VEHICLES SHALL BE CLEANED BEFORE ENTERING ONTO THE PUBLIC RIGHT OF WAY
- 18. THE WASH WATER FROM THE CONSTRUCTION ENTRANCE SHALL BE FILTERED THROUGH THE PROVIDED SILT FENCE TO ENSURE THAT NO SEDIMENT LADEN RUNOFF IS ALLOWED TO RUNOFF ON TO THE ADJACENT PROPERTY OR THE PUBLIC RIGHT OF WAY.
- 19. INSTALL SILT FENCE AND TREE PROTECTION, WHERE APPLICABLE.
- 20. DUST CONTROL SHALL BE ACCOMPLISHED BY TEMPORARY VEGETATIVE COVER AND BY IRRIGATION AS NEEDED.
- VPDES PERMIT WILL BE FILED FOR WITH THE CITY OF ALEXANDRIA. PERMITS SHALL BE OBTAINED PRIOR TO START OF CONSTRUCTION.
- 22. A POTW PERMIT IS NOT REQUIRED.

⇘ 표 DA E 8 CITY OF ALEXANDRIA DASH FACILITY 3000 BUSINESS CENTER DRIVE ALEXANDRIA, VIRGINIA 22314 NOTES GENERAL CIT APPROVED

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COMPUTATION OF PEAK RUNOFF RATE

THE PRE AND POST DEVELOPMENT PEAK RATES OF RUNOFF ARE COMPUTED BY THE SCS METHOD USING THE NOAA ATLAS 14 24-HOUR PRECIPITATION FREQUENCY FOR ALEXANDRIA, VA. THE EXISTING DETENTION POND HAS BEEN MODELED IN HYDROCAD TO COMPARE DETENTION FUND HAS BEEN MODELED IN TYDIOGRATIC COMPARE STORM ROUTINGS IN THE PRE- AND POST-DEVELOPMENT CONDITIONS. ALL HYDROLOGIC ANALYSES RELATED TO PRE AND POST DEVELOPMENT ARE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT RESPECTIVELY

STORMWATER MANAGEMENT PLAN

THE PLAN DEMONSTRATES THAT THE SITE HAS BEEN DEVELOPED TO INCREASE THE POST-DEVELOPMENT PEAK RUNOFF RATE FROM THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR A ONE-YEAR AND A TEN-YEAR STORM CONSIDERED INDIVIDUALLY, THEREFORE, STORMWATER DETENTION IS PROVIDED PER THE REQUIREMENTS OF ARTICLE DETENTION IS PROVIDED FOR THE REQUIREMENTS OF ARTICLE
13-109(F)(1)(c) AND 13-109(F)(2)(a)(i) OF ALEXANDRIA ZONING ORDINANCE
NOT TO RELEASE STORMWATER FROM THE SITE AT A HIGHER RATE THAN
PRE-DEVELOPMENT CONDITION.

ADFOLIATE OUTFALL ANALYSIS

REFER TO SHEET C-705 FOR ADEQUATE OUTFALL ANALYSIS.

THIS PROJECT IS AN AREA THAT EXPERIENCES ELOODING AND THE EXISTING CITY CONVEYANCE SYSTEM IS NOT ADEQUATE. THIS HAS BEEN DOCUMENTED TO THE CITY IN THE REPORT TITLED DASH FLOODING ANALYSIS OF ALTERNATIVES ALEXANDRIA, VA', PREPARED BY MICHAEL BAKER INTERNATIONAL, DATED 12/04/2019.

STORMWATER BMP AND DETENTION FACILITIES MAINTENANCE

THE ON-SITE STORMWATER MANAGEMENT BMPS SHALL BE MAINTAINED BY CITY OF ALEXANDRIA

ENVIRONMENTAL SITE ASSESSMENT

- THERE ARE NO FLOODPLAIN, RESOURCE PROTECTION AREAS, TIDAL WETLANDS TIDAL SHORES CONNECTED TIDAL WETLANDS ISOLATED WETLANDS, OR HIGHLY ERCOBLEPPERMEABLE SOLES ASSOCIATED WITH SHORES OR WETLANDS LOCATED ON THE SITE. THERE ARE NO WETLAND PERMITS REQUIRED FOR THIS DEVELOPMENT PROJECT. ADDITIONALLY, THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS 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 WELLS TO BE DEMOLISHED IN THIS PROJECT, INCLUDING MONITORING WELLS MUST BE CLOSED IN ACCORDANCE WITH VIRGINIA STATE WATER CONTROL BOARD (VSWCR) REQUIREMENTS CONTACT ENVIRONMENTAL DEPARTMENT AT 703-838-4400 EXT 267/255.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, AND DIVISION 01 SPECIFICATION REQUIREMENTS WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS
 - II MONDAY THROUGH FRIDAY FROM 7 AM TO 5 PM AND I SATURDAY AND SUNDAY WORK MAY BE EXECUTED AT ALL HOURS WITH 5 DAYS PRIOR NOTICE AND APPROVAL OF THE OWNER
- A SITE CHARACTERIZATION REPORT, REMEDIAL ACTION PLAN, BISK ASSESSMENT, AND HEALTH & SAFETY PLAN WILL BE PROVIDED WITH FINAL SITE PLAN. IF NEEDED, A SOIL MANAGEMENT PLAN WILL ALSO BE PROVIDED WITH FINAL SITE PLAN.

STORMWATER BEST MANAGEMENT PRACTICES (BMP) NOTES

THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) REQUIRED FOR THIS PROJECT SHALL BE CONSTRUCTED AND INSTALLED UNDER THE DIRECT SUPERVISION OF A THIRD-PARTY PROFESSIONAL ENGINEER OR THEIR DESIGNATED REPRESENTATIVE. THE DESIGN ENGINEER SHALL REVIEW INSPECTION REPORTS AND MAKE A WRITTEN CERTIFICATION TO THE CITY THAT THE BMPs ARE CONSTRUCTED AND INSTALLED AS DESIGNED AND IN ACCORDANCE WITH THE APPROVED SITE PLAN.

UTILITY WORKS

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS DESCRIBED IN SECTION 9VAC25-875 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATION AND ADDITIONAL APPLICABLE PRACTICES FOLLOWED BY THE CITY OF

- A. ALL PRIVATE UTILITIES SHALL BE LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF- WAY AND PUBLIC UTILITY EASEMENTS UNLESS THE UTILITY OWNERS HAVE FRANCHISE AGREEMENT WITH THE CITY OF ALEXANDRIA; HOWEVER, NO ELECTRIC TRANSFORMERS AND SWITCH GEARS I CONTROL BOXES SHALL BE PLACED IN THE PUBLIC
- B. ALL THE EXISTING AND PROPOSED PUBLIC AND PRIVATE UTILITIES AND EASEMENTS SHALL BE SHOWN AND A DESCRIPTIVE NARRATION OF VARIOUS LITH ITIES SHALL BE PROVIDED ON THE PLAN.
- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN UTILITY SERVICES AT ALL TIMES DURING CONNECTION AND/OR
- D. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME
- E. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF
- C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY
- D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ACCORDANCE WITH THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- E SHOULD UTILITY CONSTRUCTION BE PERFORMED AFTER COMPLETING FARTHWORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACHIEVING 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D- 1551) COMPACTION IN ALL TRENCH BACKFILL
- F RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA REGULATIONS §9VAC25-875 EROSION AND SEDIMENT CONTROL REGULATIONS, AND THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK VERSION 1.1
- G. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL CONTROL MEASURES AS NECESSARY TO PREVENT FROSION AND SEDIMENTATION, AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, CITY OF
- I. A REMEDIATION PLAN SHALL BE SUBMITTED DETAILING HOW CONTAMINATED SOILS AND/OR GROUNDWATER WILL BE DEALT WITH, INCLUDING PLANS TO REMEDIATE UTILITY CORRIDORS.
- J. UTILITY CORRIDORS IN CONTAMINATED SOIL SHALL BE OVER EXCAVATED BY 2 FEET AND BACKELLED WITH "CLEAN" SOIL
- K. GRADING CAN BE PERFORMED ON INSTALLATION OF UTILITIES.
- ALL LITTLITIES SLICH AS ELECTRICAL LINES. GAS PIPES COMMUNICATION CABLES. INCLUDING WATER AND SEWER LATERALS ON PUBLIC AND PRIVATE PROPERTY IN THE CITY OF ALEXANDRIA SHALL BE PROVIDED WITH MINIMUM 3" WIDE 5 MIL OVERALL THICKNESS DETECTABLE UNDERGROUND WARNING TAPE (DUWT). THE DUWT SHALL BE INSTALLED AT DEPTHS OF 12" TO 18" FOR DUWT WIDTHS OF 3" AND 24" FOR WIDTHS OF 6" SO AS TO MAKE LINDERGROUND INSTALLATIONS FASY TO FIND LISING A NON-FERROUS LOCATOR. THE DUWT SHALL BE WITH ALUMINUM BACKING OR SOLID ALUMINUM CORE LAMINATED WITH A PROTECTIVE CLEAR FILM ON BOTH SIDES, SEALING AND PROTECTING THE GRAPHICS FROM UNDERGROUND MOISTURE, ACIDS, ALKALIS, AND OTHER SOIL SUBSTANCES. ALL DUWT TAPES SHALL BE PRINTED IN BLACK INK ON AMERICAN PUBLIC WORKS ASSOCIATION (APWA) APPROVED COLORS TO MEET OR EXCEED INDUSTRY STANDARDS

COLOR	CODES
RED	CAUTION BURIED ELECTRIC POWER LINES, CABLES, CONDUITS, AND LIGHTNING CABLES
YELLOW	CAUTION GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	CAUTION COMMUNICATIONS, ALARM OR SIGNAL LINES, CABLES, OR CONDUITS
BLUE	CAUTION POTABLE WATER
PURPLE	CAUTION RECLAIMED WATER, IRRIGATION AND SLURRY LINES

CAUTION SEWER, DRAIN LINES, AND FORCE MAIN

SOLID WASTE MANAGEMENT

IN COMPLIANCE WITH TITLE 5: TRANSPORTATION AND ENVIRONMENTAL SERVICES, SECTION 5-1-31 OF THE CITY CHARTER AND CODE, THE CITY OF ALEXANDRIA WILL PROVIDE SOLID WASTE COLLECTION SERVICES TO EVERY USER PROPERTY, DEFINED IN SECTION 5-1-2 (12B) AS CONTAINING FOUR OR FEWER DWELLING UNITS EXCLUDING CONDOMINIUM

SOLID WASTE AND RECYCLABLE MATERIALS STORAGE IS ALREADY PROVIDED IN THE PARCEL. NO ADDITIONAL SOLID WASTE OR RECYCLABLE MATERIALS STORAGE ARE REQUIRED FOR THIS PROJECT

MOSQUITO CONTROL NOTES

- STORM WATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICE (BMP) SYSTEMS THAT HOLD WATER FOR MORE THEN 5 DAYS BETWEEN THE MONTHS OF MAY - OCTOBER HAVE THE POTENTIAL TO CAUSE MOSQUITO BREEDING HABITATS, THEREFORE, SUCH BMPS SHALL BE TREATED WITH A REGISTERED MOSQUITO LARVAL CONTROL PRODUCT. ALL LABELS SHOULD BE FOLLOWED FOR APPLICATION RATES AND
- 2. SINCE EXCESSIVE VEGETATION IN EXISTING BMPs ALSO INCREASES THE POTENTIAL FOR MOSQUITO PROBLEMS; THEREFORE, VEGETATION SHALL BE CONTROLLED AND CUT TO REDUCE MOSQUITO BREEDING.
- 3 CONTACT THE CITY OF ALEXANDRIA ENVIRONMENTAL HEALTH VECTOR BORNE ILLNESS PROGRAM (703-838-4400 EXT. 326, 327) FOR QUESTIONS OR TREATMENT ASSISTANCE.

LANDSCAPE NOTES

- ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING VEGETATION, INCLUDING MAINTENANCE AND PENALTIES SHALL BE PREPARED IN COMPLIANCE WITH LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA AND APPROVED BY THE CITY ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE DISTURBING AND CONSTRUCTION
- 2. ALL VEGETATION PRESERVATION AND PROTECTION METHODS SHALL BE APPROVED / VERIFIED IN FIELD BY THE CITY ARBORIST PRIOR TO COMMENCEMENT OF ANY GROUND DISTURBING ACTIVITY.
- 3. LOCATION AND METHOD FOR PROTECTION AND PRESERVATION OF EXISTING TREES WILL BE SHOWN ON TREE PRESERVATION, DEMOLITION, SEDIMENT AND EROSION CONTROL, AND LANDSCAPE PLAN SHEETS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ANY EXISTING LANDSCAPING WHICH IS TO BE BELOCATED ON THE SITE WILL BE EAISTING LANDISCAPING WHICH IS TO BE HELD AT ED AT THE SITE WILL BE CAREFULLY STORED IN A DESIGNATED AREA BEFORE BEING REPLANTED. COORDINATION WITH THE OWNER FOR MUTUALLY AGREEABLE STORAGE LOCATIONS FOR LANDISCAPE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD BE RESPONSIBLE FOR THE REPLACEMENT OF PLANT MATERIAL THAT DOES NOT SURVIVE STORAGE AND REPLANTING.
- APPLICANT MUST INCLUDE ON THE PLAN DOCUMENTATION OF COMMUNICATION WITH THE ADJACENT PROPERTY OWNER(S) VERIFYING NOTIFICATION OF AND AGREEMENT WITH CONSTRUCTION IMPACT, POTENTIAL FOR LOSS, AND AGREED UPON REMEDIAL MEASURES PERTAINING TO THE EXISTING TREE(S) ON ADJACENT PROPERTIES THAT WILL BE AFFECTED BY PROJECT WORK
- 6 INCLUDE SPECIFIC CONSTRUCTION STAGING INFORMATION ON THE PLAN THAT INDICATES THE METHODS, AND PROCEDURES TO BE IMPLEMENTED FOR PROTECTION OF EXISTING ON-SITE AND OFF-SITE VEGETATION.
- PROPOSED PLANTING SHALL BE PROVIDED IN COMPLIANCE WITH THE LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA
- 8. SPECIFICATION FOR ALL PLANTINGS SHALL BE IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION OF ANSI-Z60.1, THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN ASSOCIATION OF NURSERYMEN; WASHINGTON, DC
- 9. THE APPLICANT SHALL MAKE SUITABLE ARRANGEMENTS FOR THE AFFLICANT ORALL WARE SOTTABLE ARRANGEMENTS FOR PRE-SELECTION TAGGING, PRE-CONTRACT GROWING, OR IS UNDERTAKING SPECIALIZED PLANTING STOCK DEVELOPMENT WITH A NURSERY OR GROWER THAT IS CONVENIENTLY LOCATED TO THE PROJECT SITE, OR UTILIZING OTHER PROCEDURES THAT WILL ENSURE AVAILABILITY OF SPECIFIED MATERIALS. IN THE EVENT THAT SHORTAGES AND/OR INABILITY TO OBTAIN SPECIFIED PLANTINGS OCCURS, REMEDIAL EFFORTS INCLUDING SPECIES CHANGES, ADDITIONAL PLANTINGS AND MODIFICATION TO THE LANDSCAPE PLAN SHALL BE LINDERTAKEN BY THE MODIFICATION TO THE LANDSCAPE PLANT SHALL BE UNDERTRACED BY THE APPLICANT. ALL REMEDIAL EFFORTS SHALL, WITH PRIOR APPROVAL BY THE CITY, BE PERFORMED TO THE SATISFACTION OF THE DIRECTORS OF PLANNING & ZONING, RECREATION, PARKS & CULTURAL ACTIVITIES AND TRANSPORTATION & ENVIRONMENTAL SERVICES.
- 10. IN LIFTLOF MORE STRENLIOUS SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA.

- 11. PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATIONS, A PRE-INSTALLATION/CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE CITY'S ARBORIST AND LANDSCAPE ARCHITECTS TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES.
- 12 MAINTENANCE FOR THE PROJECT SHALL BE PERFORMED IN PERPETUITY BY THE APPLICANT/OWNER/SUCCESSOR, IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND/OR AS CONDITIONED BY THE PROJECT APPROVAL
- 13 AS-RUILT DRAWINGS FOR THIS LANDSCAPE PLAN AND/OR WATER MANAGEMENT SYSTEM WILL BE PROVIDED IN COMPLIANCE WITH THE CITY OF ALEXANDRIA LANDSCAPE GUIDELINES. AS-BUILT DRAWINGS SHALL INCLUDE CLEAR IDENTIFICATION OF ALL VARIATION(S) AND CHANGES FROM APPROVED DRAWINGS INCLUDING LOCATION, QUANTITY AND SPECIFICATION OF ALL PROJECT ELEMENTS.



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APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICE SITE PLAN No. DIRECTOR CHAIRMAN, PLANNING COMMISSION DATE RECORDED PAGE NO. INSTRUMENT NO. DEED BOOK NO.

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DEMOLITION NOTES

- NO DEMOLITION SHALL BEGIN UNTIL ALL EROSION AND SEDIMENT AND TREE PROTECTION CONTROLS ARE IN PLACE AND ARE APPROVED BY AN EROSION AND SEDIMENT CONTROL INSPECTOR OF THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK WITH REPRESENTATIVE UTILITY COMPANIES AND FOR THE IMPLEMENTATION OF REQUIRED UTILITY-RELATED WORK.
- 4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE UPON ENCOUNTERING ANY HAZARDOUS MATERIALS DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER'S REPRESENTATIVE AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- 5. DISCONNECTION OF SERVICES AND SYSTEMS SUPPLYING UTILITIES TO BE ABANDONDE OR DEMOLISHED SHALL BE COMPLETED PRIOR TO OTHER SITE DEMOLITION IN FULL COMPLIANCE WITH APPLICABLE CODES, REGULATIONS, AND THE REQUIREMENTS OF UTILITY PURVEYORS HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY PURVEYORS, PAYMENT OF ASSOCIATED FEES AND PROCUREMENT OF ALL INCESSARY PERMITS.
- PRIOR TO REMOVAL OF MATERIALS OVER EXISTING UTILITY SYSTEMS, THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS AND, IF AT VARIANCE WITH CONDITIONS AS REPRESENTED ON THE PLANS, NOTIFY THE OWNER'S REPRESENTATIVE AND OBTAIN DIRECTIONS AS TO THE APPROPERITE ACTION(S) TO DE TAKEN.
- THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH APPROVED MATERIAL SICLEAN FILL AS PER THE REQUIREMENTS OF VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT).
- 8. THE CONTRACTOR SHALL PROTECT AND PREVENT DAMAGE TO EXISTING ON-SITE UTILITY DISTRIBUTION FACILITIES THAT ARE TO REMAIN ACTIVE UTILITY DISTRIBUTION FACILITIES ENCOUNTERED DURING DEMOLITION ANDIONE CONSTRUCTION ACTIVITIES SHALL BE SHUT OFF AT THE SERVICE MAIN WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 9. DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE UPON ENCOUNTERING ANY EXISTING UTILITIES AND/OR UTILITIES STRUCTURES NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL DOCUMENT THE SAME AND FORWARD THE INFORMATION TO THE RESULT SHALL DOCUMENT OF THE APPROPRIATE ACTIONS/10 FE TAKEN.
- 10. THE CONTRACTOR OR APPLICANT SHALL WORK WITH THE CITY STAFF. TO REUSE THE EXISTING. LEFTOVER, INJURO, ROSICARDED BUILDING MATERIALS AS PART OF THE DEMOLITION PROCESS OR THE CONSTRUCTION DEBRIS MUST BE REMOVED TO AN APPROVIDE LANDFILL WITH ADEQUATE FREQUENCY IN ACCORDANCE WITH THE VIRGINIA STATE LITTER CONTROL LAT.

CONSTRUCTION NOTES

- 1. THE EXISTING LINDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENOING WORK AND FOR ANY DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO LOCATE OR 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 CONTINUATION OF SERVICE.
- THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED FOLLOWING NOTIFICATION AND MARKING OF ALL EXISTING UILTHIES TO VERIFY THE LOCATION AND DEPTH OF EXISTING UILTHIES. 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 OSTAINED, IF REQUIRED.
- 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.
- THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- 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.

- THE DEVELOPER SHALL PROVIDE OVER-LOT GRADING TO PROVIDE POSITIVE DRAINAGE AND PRECLUDE PONDING OF WATER.
- 7. ALL AREAS, ON OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON, SHALL BE ADEQUATELY STABLIZED TO CONTROL EROSION AND SEDIMENTATION. THE MINIMUM ACCEPTABLE STABLIZATION SHALL CONSIST OF PERMANENT GRASS, SEED MIXTURE TO BE AS RECOMMENDED BY THE CITY AGENT, ALL SLOPES 31 AND GREATER SHALL BS SODED AND PEGGED OF OTHERWISE STABLIZED IN A MANNER APPROVED BY THE CITY OF THE ACCEPTAGE OF THE PARTY OF THE
- 8. 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 BEI CACTIONS
- PRIOR TO BEGINNING OF CONSTRUCTION, CONTRACTOR SHALL VERIFY FROM THE DRAWINGS ALL DIMENSIONS, DETAILS, AND TREATMENTS FOR THE PROPOSED FOUNDATIONS, CURBS, WALKWAYS, AND OTHER PROPOSED CONSTRUCTION WHERE INDICATED ON THE PLANS.
- 10. EXISTING BUILDINGS, FENCES AND OTHER EXISTING PHYSICAL FEATURES ARE TO BE REMOVED AS REQUIRED BY THE CONSTRUCTION
- EXITING CONSTRUCTION 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 DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES.
- 12. 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, IF REQUIRED, SHALL BE MADE IN THE FIELD WITH THE APPROVAL OF SITE INSPECTOR OF THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES.
- 13. THE DESIGN, CONSTRUCTION, FIELD PRACTICES, AND METHODS SHALL CONFORM TO THE REQUIREMENTS SET FORTH BY THE CITY OF ALEXANDRIA ZONING ORDINANCE AND DESIGN AND CONSTRUCTION STANDARDS MANULE, FALURE TO COMPLY WITH THE CODE, APPLICABLE MANUALS, AND PROVISIONS OF THE CONSTRUCTION AND ESCROW AGREEMENTS OR THE PERMITS SHALL BE DEEMED A VIOLATION.
- 14. 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.
- CONSTRUCTION STAKEOUT SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA.
- SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE GUTTER AND/OR PONDING OF WATER ON THE ROADWAY.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING A SMOOTH TRANSITION TO EXISTING CURB AND SIDEWALKS, IF APPLICABLE.
- 18. THE CALIFORNIA BEARING RATIO (CSR) VALUES OF IN-SITU MATERIALS SHALL BE DETERMINED BY FIELD AND/OR LABORATORY TESTS FOR ACTUAL DETERMINATION OF REQUIRED THICKNESSES OF SURFACE. BASE, SUB-BASE, AND SUB GADE MATERIALS PRIOR TO SUBMISSION OF THE FINAL SITE PLAN. THE PAVEMENT SECTION SHALL BE DESIGNED BY A GEOTECHNICAL LICENSES PROFESSIONAL REGINEDER TO THE SATISFACTION OF DIRECTOR. TRANSPORTATION AND ENVIRONMENTAL SERVICE OF ALL PAYEMENTS INCLUDING BERGENCY VEHICLE ASSENCE.
- 19. THE THICKNESSES OF SUB-BASE, BASE, AND WEARING COURSE SHALL BE DESIGNED USING "CALIFORNIA METH-JOY AS SET FORTH ON PAGE 3.75 OF THE SECOND EDITION OF A BOOK ENTITLED, "DATA BOOK FOR GIVIL ENGINEERS, VOLLIME ONE DESIGN" WRITTED BY ELWYN E. SEELY P. AN ALTERNATE PAYEMENT SECTION DESIGNED TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR ALL PAYEMENTS INCLUDING EMERICARY VEHICLE FASEMENT (EVE) TO SUPPORT HAD LOADING BASED ON CSF AND VIRGINIA DEPARTMENT OF TRANSPORTATION (VIDOT) METHOD (VASWAMI METHOD) AND STANDARD MATERIAL SPECIFICATIONS SHALL PER ACCEPTABLE.
- 20. EMERGENCY VEHICLE EASEMENTS (EVE) AND AMERICAN WITH DISABILITY (ADA) ACCESSIBLE PARKING SPACES MUST BE DELINEATED WITH PAVEMENT MARKINGS PER THE CITY OF A LEXANDRIA STANDARD SIGNAGE AND AMERICANS WITH DISABILITIES (ADA) REQUIREMENTS.
- 21. ALL STRIPING SHALL MEET THE REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS (LATEST EDITION) AND SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- 22. ALL EARTHWORK OPERATIONS ARE TO BE PERFORMED UNDER THE FULL TIME, ON-SITE SUPERVISION OF A REGISTERED GEOTECHNICAL EMBRICER WITH GEOTECHNICAL TESTING IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS

- 23. THE CONTRACTORS SHALL NOT CAUSE OR PERMIT VEHICLES TO IDLE FOR MORE THAN 10 MINUTES WHEN PARKED.
- 24. UNLESS OTHERWISE APPROVED THE CONTRACTOR SHALL PROVIDE THERMOPLASTIC LADDER STYLE. 'STANDARD PEDESTRIAN CROSS WALKS AT ALL CROSSINGS AT THE PROPOSED DEVELOPMENT, WHICH MUST BE DESIGNED TO THE SATISFACTION OF THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES. THE DESIGN OF LADDER STYLE OR STANDARD PEDESTRIAN CROSS WALK SHALL BE EVALUATED ON A CASE BY CASE BASIS AND SHALL COMPLY WITH THE REQUIREMENTS OF POLICY MANUAL SECTION 30.18, PEDESTRIAN CROSSWALK SJULY 13, 2006. A COPY OF THE POLICY MANUAL CASES WALK SJULY 13, 2006. A COPY OF THE POLICY MANUAL CASES WALK SJULY 13, 2006. A COPY OF THE POLICY MANUAL CASES WALKS STANDARD ST

ARCHAEOLOGY NOTES

- 1. THIS PROPERTY IS SITUATED ON A LOW TERRACE NEAR A TRIBUTARY STREAM OF CAMERON RUN PREHISTORICS SITES HAVE BEEN DISCOVERED IN THIS TYPE OF SETTING, AND A NATIVE AMERICAN CAMP WAS FOUND ON THIS TERRACE TO THE EAST OF THE DEVELOPMENT AREA, PREVIOUS ARCHAEOLOGICAL TESTING ON PARTS OF THE PROJECT AREA HAS NIDICATED THAT THERE HAS BEEN PREVIOUS GRADING ACROSS SOME OF THE SITE, BUT IN ONE AREA, THE ARCHAEOLOGISTS DISCOVERED THE PRESENCE OF A BURIED SURFACE. THE WESTERN PORTION OF THE PROJECT AREA HAS NEVER BEEN TESTED, AND A BURIED SURFACE COULD ALSO BE PRESENT IN THIS SECTION. IT IS POSSIBLE THAT THE BURIED SURFACE COULD CONTAIN REMMANTS OF PREHISTORIC COLUPATION. IN ADDITION, THERE IS A POSSIBILITY THAT THE SURFACE COULD CONTAIN REMMANTS OF PREHISTORIC COCUPATION. IN ADDITION, THERE IS A POSSIBILITY THAT THE SURFACE COULD CONTAIN REMMANTS OF PREHISTORIC COCUPATION. IN ADDITION, THERE IS A POSSIBILITY THAT THE SURFACE COULD CONTAIN RAY REMMANTS.
- CALL ALEXANDRIA ARCHAEOLOGY (703-746-4399) TWO (2) WEEKS BEFORE THE STARTING DATE OF ANY GROUND DISTURBANCE SO THAT CITY ARCHAEOLOGISTS CAN ARRANGE FOR A TIME TO INSPECT THE PROPERTY.
- 3. CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS (PREHISTORIC STONE TOOLS, OR CIVIL WAR 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 FINES.
- THE APPLICANT SHALL NOT ALLOW ANY METAL DETECTION AND/OR ARTIFACT COLLECTIONS TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY. FAILURE TO COMPLY SHALL RESULT IN PROJECT DELAYS.
- 5. ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED IN COMPLIANCE WITH SECTION 11-411 OF THE ZONING ORDINANCE.

CEMETERY AND/OR BURIAL GROUNDS

THERE IS NO OBSERVABLE, HISTORICAL, OR ARCHAEOLOGICAL EVIDENCE OF CEMETERIES OR BURIAL GROUNDS ON THIS PROPERTY.

FIRE / WATER NOTES

- EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE AND UNOBSTRUCTED DURING CONSTRUCTION.
- 2. EMERGENCY VEHICLE EASEMENTS (EVE) SHALL REMAIN OPEN DURING

UTILITY OWNER INFORMATION

SANITARY SEWER:
CITY OF ALEXANDRIA
DEPARTMENT OF TRANSPORTATION
& ENVIRONMENTAL SERVICES
301 KING STREET, ROOM 4100
ALEXANDRIA, VA 22314
PH 703-288-4966

STORM DRAIN:

CITY OF ALEXANDRIA
DEPARTMENT OF TRANSPORTATION
& ENVIRONMENTAL SERVICES
301 KING STREET, ROOM 4100
ALEXANDRIA, VA 22314
PH, 703-838-4966

WATER:

VIRGINIA AMERICAN WATER 2223 DUKE STREET ALEXANDRIA, VA 22314 PH. 703-706-3877

ELECTRIC SERVICE:

DOMINION ENERGY VIRGINIA 907 WEST GLEBE ROAD ALEXANDRIA, VA 22305 PH. 703-838-2229

GAS SERVICE:

WASHINGTON GAS LIGHT COMPANY 6801 INDUSTRIAL ROAD SPRINGFIELD, VA 22151 PH. 703-750-1400



CITY OF ALEXANDRIA
DASH FACILITY
3000 BUSINESS CENTER DRIVE
ALEXANDRIA, VIRGINIA 22314

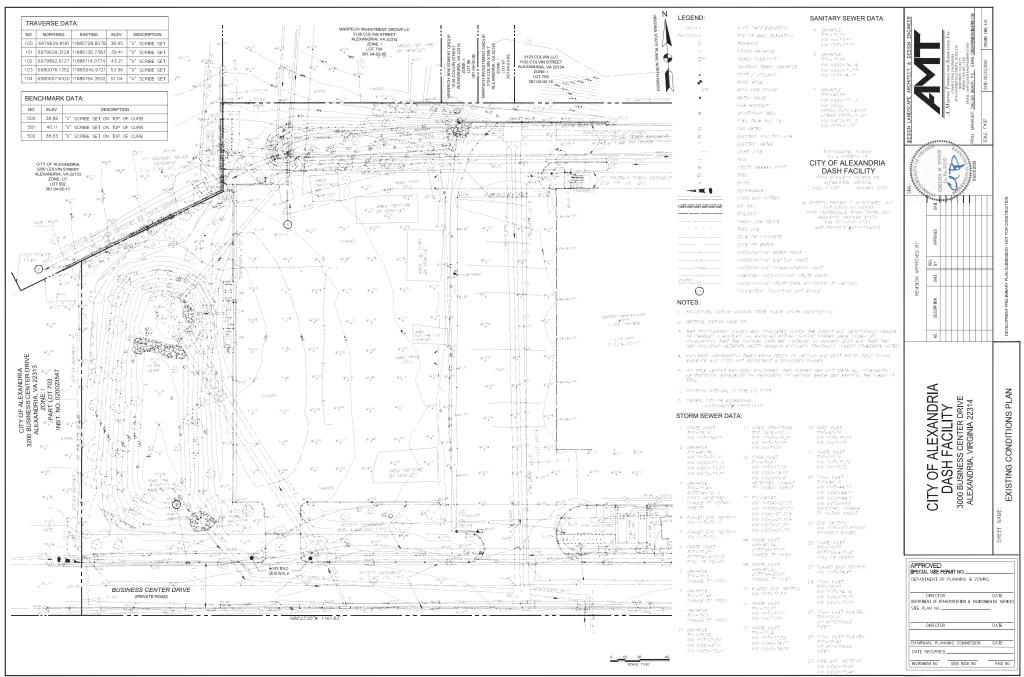
GENERAL NOTES

APPROVED
OPECIAL LIGE PERMIT NO.
DEPARTMENT OF PLANNING & ZONING
DEPARTMENT OF PLANNING & ZONING
DEPARTMENT OF PLANNING & PANDOMENTAL SERVICE
SITE PLAN NO.
DIRECTOR
DIRECTOR
DATE
CHARMAN, PLANNING COMMISSION
DATE
CHARMAN, PLANNING COMMISSION
DATE

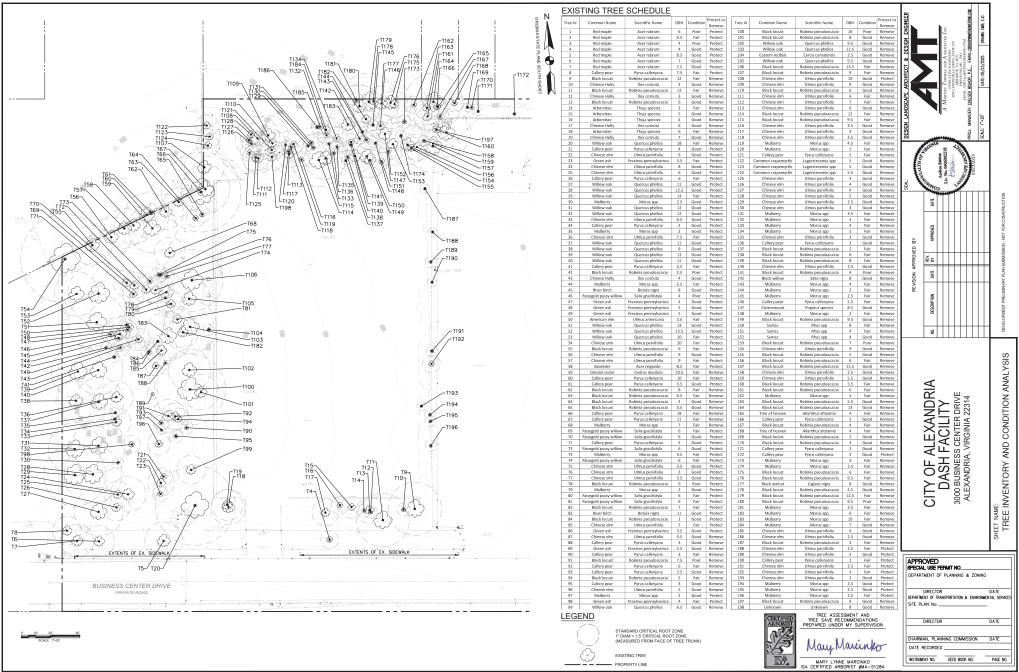
INSTRUMENT NO. DEED BOOK NO.

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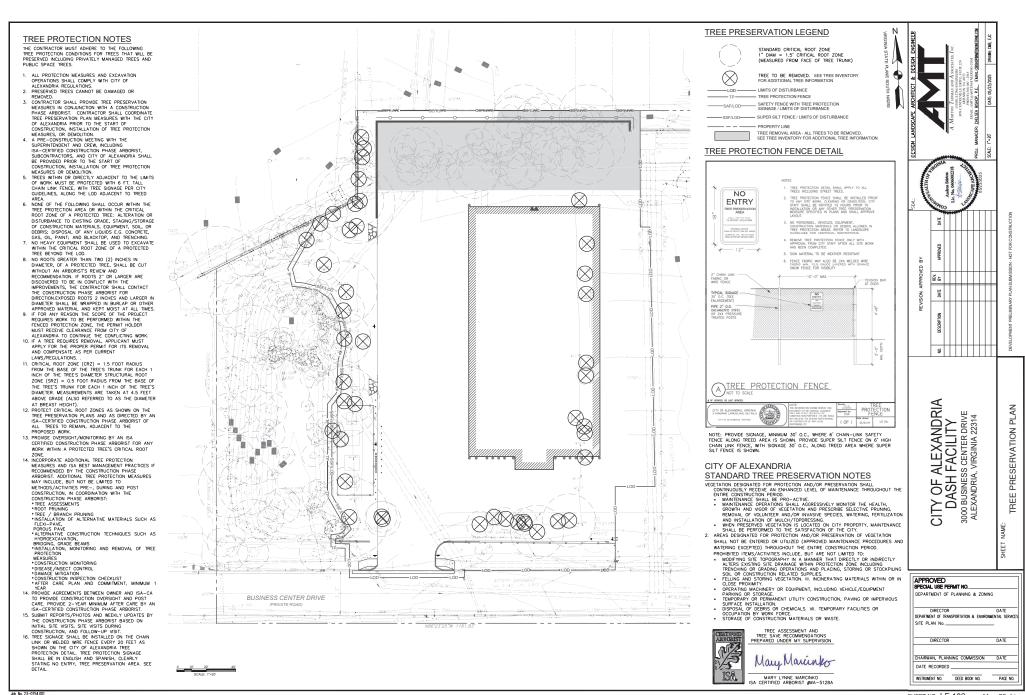
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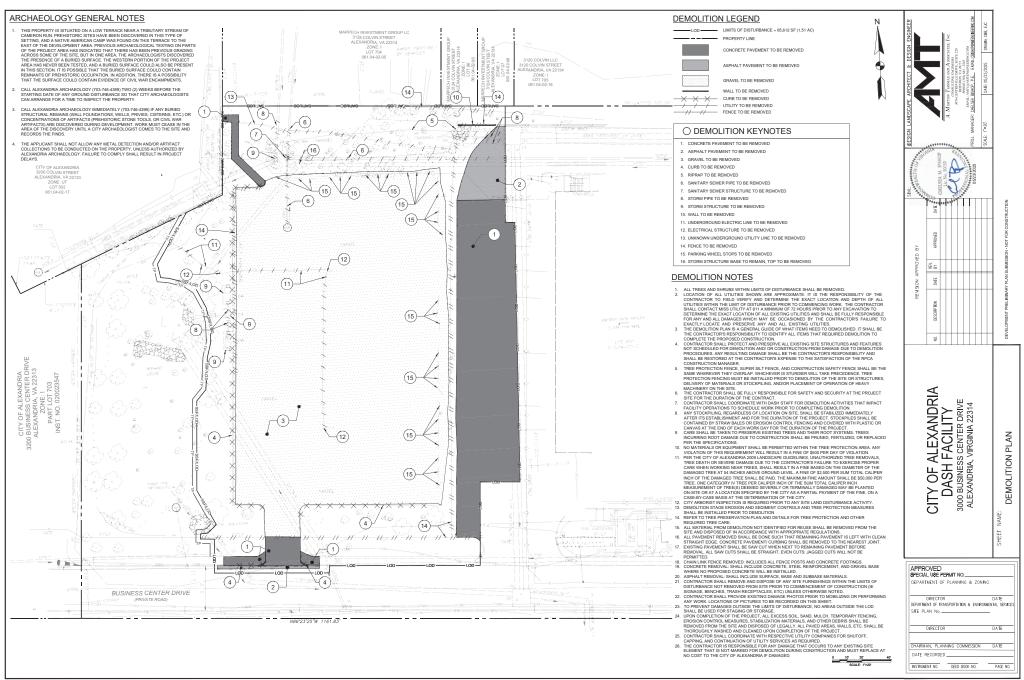
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SHEET NO: LF-101 10 OF 94

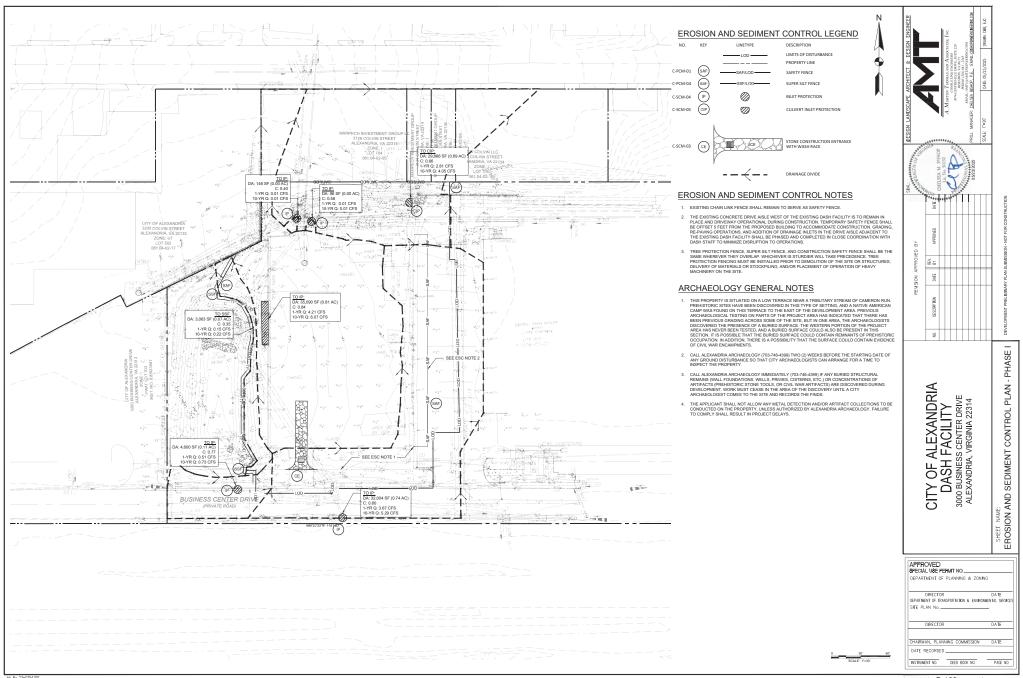


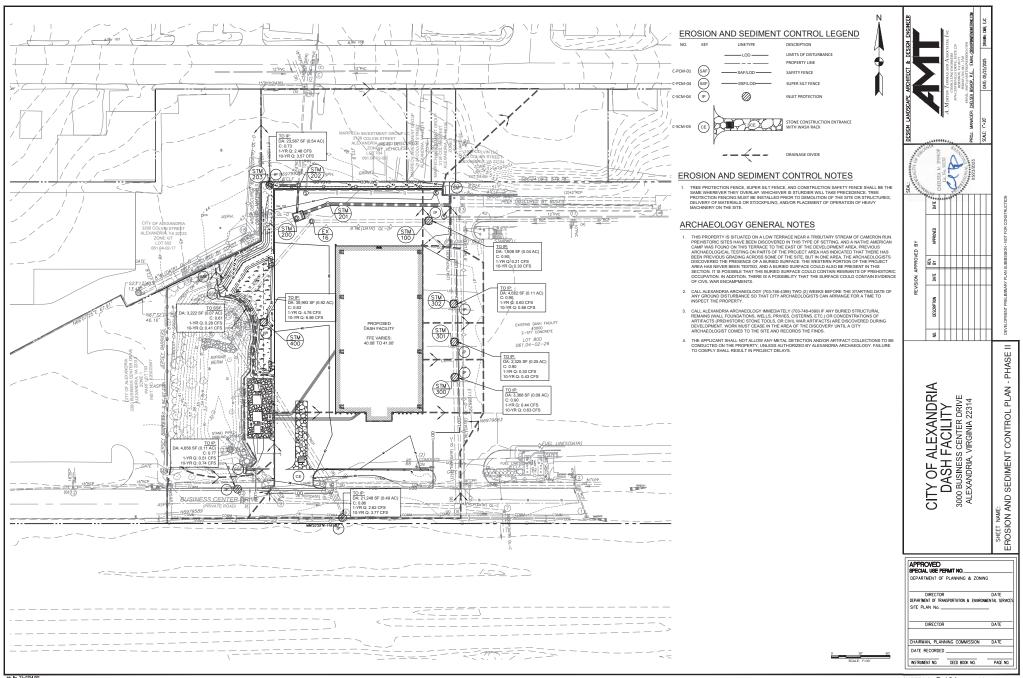
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EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

CONSTRUCTION OF A NEW 24-BUS STORAGE AND CHARGING DEPOT WITH CANOPY FOR NEW CITY OF ALEXANDRIA DASH FACILITY EXPANSION WITH PROPOSED DRIVE ASSLES, NEW AND RELOCATED UTILITIES, RETAINING WALL, AND STORMWATER MANAGEMENT.

TOTAL SITE AREA: 9.21 ACRES (401,240 SF) AREA OF DISTURBANCE: 1.51 ACRES (65,612 SF)

THE SITE CONSISTS OF ONE PARCEL BOUNDED BY COLVIN STREET TO THE NORTH, BUSINESS CENTER DRIVE TO THE SOUTH, THE EXISTING DAS FACILITY TO THE EAST, AND AN EXISTING DETENTION POND TO THE WEST.

ADJACENT PROPERTIES
NORTH: COLVIN STREET AND INDUSTRIAL BUILDINGS
SOUTH: BUSINESS CENTER DRIVE AND WIMATA ALEXANDRIA RAIL YARD
EAST: EXISTING DASH FACILITY, ROTH STREET, AND INDUSTRIAL BUILDING
WEST: EXISTING DETENTION POND AND UTILITY AND TRANSPORTATION BUILDING

OFF-SITE AREAS
THERE IS NO PROPOSED CONSTRUCTION ON ADJACENT PROPERTIES. NO HAUL OFF OR OFF-SITE BORROW AREAS ARE ANTICIPATED WITH THIS

SOILS 66 - KINGSTOWNE SANDY CLAY LOAM, 0% TO 45% SLOPES, HSG C

CRITICAL EROSION AREAS

AREAS OF SITE WITH SLOPES EQUAL TO OR EXCEEDING 2:1 ARE CRITICAL EROSION AREAS. DENUDED AREAS SHOULD BE LIMITED TO AREAS THAT CAN
BE TEMPORANTLY STABILIZED AT THE END OF EACH DAY TO PREVENT EXCESSIVE EROSION.

EROSION AND SEDIMENT CONTROL MEASURES
PERMANENT OR TEMPORARY SOL STABILIZATION MUST BE APPLIED TO DENLIDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY
PORTION OF THE SITE SOL STABILIZATION MUST BE APPLIED WITHIN 7 DAYS TO DENLIDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL
REMAIN DORMANT (MOISTURBED) FOR LONGER THAN 30 DAYS. ANY STOCKPILES MUST BE MULCHED AND SEEDED IMMEDIATELY AS DIRECTED BY
THE COUNTY INSPECTOR.

SEDIMENT CONTROL WILL BE EXECUTED THROUGH THE INSTALLATION OF INLET PROTECTION AND CONSTRUCTION ENTRANCE WITHIN THE DRAINAGE AREA OF THE LIMITS OF DISTURBANCE. DUST SHALL ME MINIMIZED AS MUCH AS PRACTICABLE ACCORDING STD & SPEC. C-SCM-01.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED.

STRUCTURAL PRACTICES

SAFETY FENCE - C-PCM-01-1 INSTALL A 6' HIGH CHAIN LINK FENCE TO PROHIBIT ACCESS TO THE SITE BY THE PUBLIC.

CONSTRUCTION ENTENDED. C.GCM.05.1

RISALL A TEMPORATY CONSTRUCTION ENTRANCE WITH A WASH RACK AS SHOWN. WASH ALL CONSTRUCTION VEHICLES LEAVING THE SITE AS INCESSARY TO ENSURE THAT SEDIMENT WILL NOT LEAVE THE SITE DIRECT WASH WATER TO NEAREST SEDIMENT CONTROL DEVICE. DUST SHALL BE MINIMIZED AS JUNCALS PRACTICABLE.

SUPER SILT FENCE - C-PCM-04-3 INSTALL SUPER SILT FENCE BARRIER AS SHOWN ON PLAN TO PROTECT PROPOSED STORMWATER FACILITIES AND UTILITY TRENCH AND TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW

INLET PROTECTION - C-SCM-04-2 INSTALL APPROPRIATE INLET PROTECTION AS SHOWN ON PLAN.

CULVERT PROTECTION - C-SCM-05-1 INSTALL SEDIMENT FILTER WITH SILT FENCE AROUND CULVERT INLET AS SHOWN ON PLAN.

VEGETATIVE MEASURES

1. TOPSOILING (STOCKPILE)
TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION WITHIN 14 DAY:

2. TEMPORARY SEEDING
DISTURBED AREST THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN A PERIOD OF 14 DAYS WILL HAVE TEMPORARY VEGETATION ESTABLISHED.
TEMPORARY VEGETATION WILL REDUCE DAMAGE FROM SEDIMENT AND RUNGEF TO DOWNSTREAM AND OFF-SITE AREAS. TEMPORARY SEEDING
PLAYT MATERIAL SHALL BE RAPIOL FOROWING PLAYTS SELECTED FROM VESTA STANDARD AND SPEC. CSSM40 AND CSSM10. AREAS MINCH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION ARE TO BE RESEEDED AS SOON AS POSSIBLE. FERTILIZER SHALL BE APPLIED AT A RATE OF 500 LBS. PER ACRE. FERTILIZER SHALL BE INCORPORATED INTO TOP 24 INCHES OF SOIL. SEED SHALL BE BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING SUMMER MONTHS SHALL BE MILCHED.

SECULARIEST SEEDING.
ALL JURGAS DETURBED BY CONSTRUCTION SHALL BE STABILLZED WITH PERMANENT SEEDING AMEDIATELY FOLLOWING FINISHED GRADING. SEEDING SHALL BE DONE ACCORDING TO VESCH SPEC. CSSM IN. AS MODIFIED ON THIS SHEET I BROGION CONTROL BLANKETS ARE TO BE INSTALLED OVER THAT SHEET OF THE SEED TO SEEDING SHALL BE USED ON THE SEED THO SEEDING SHALL BE USED ON THE SEED TO SERVINATE PROPERTY. MILCH (STAWN OF FIBER) WILL BE USED ON RELATIVELY FLAT AREAS. IN ALL SEEDING OPERATIONS, SEED FERTILIZER AND LIME WILL BE APPLIED PRIOR TO MULTIONS. THE PLATHING SOL MUST HAVE ROUGHED FIRE GRANIED SOIL. SUFFICIENT SOLE AND SHALL BE CONSIDERED FROM THE ADDRESS OF THE SEED OF THE START SHALL SEEDING SHALL BE ADDRESS OF THE SHALL SHALL SEEDING S

4. SODDING
AREAS THAT ARE TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE PLANS. SOIL TESTS SHOULD BE DETERMINE THE AREAS INFO AREA TO BE SOLUBED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE PLANS. SOIL TESTS SHOULD BE DETERMINE THE EACH FEGUREMENTS FOR LIKE AND FETRILIZER. PRIOR TO LIVING SOOL SOIL SURFACE SHALL BE CLEAR OF TRANSLE DEBIES, AND LAGGE GRECITS. QUALITY OF SOOL SHALL BE STATE CERTIFIED AND ENSURE GENETIC PURITY AND HIGH QUALITY. SOOD SHALL BY STATE CESTS WITH YET OR TO SOOL SHALL BY STATE CESTS WITH YET OF THE VIOLENCE SOOL SHOULD NOT BE LUED OF FROZEN SOOL SURFACE AND SHALL BE BRATALED FER. SPECC. CSSIMOL.

5. DUST CONTROL DUST SHALL ME MINIMIZED AS MUCH AS PRACTICABLE.

SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION NARRATIVE

- SEQUENCE OF CONSTRUCTION PHASE 1, SEE SHEET C-103

 A MOLD A PRE-CONSTRUCTION MEETING WITH ALL RELEVANT STAKEHOLDERS. THIS MUST INCLUDE CITY OF ALEXANDRIA INSPECTOR AND
- UNDAY FORESTER.

 B. ALL VEGETATION PRESERVATION AND PROTECTION METHODS SHALL BE APPROVEDIVERSED IN THE FIELD BY THE CITY ARBORIST PRIOR.
- TO COMMENCEMENT OF ANY GROUND DISTURBING ACTIVITY.
 INSTALL CONSTRUCTION ENTRANCE (CE), SAFETY FENCE (SAF) SUPER SILT FENCE (SSF), TREE PROTECTION FENCE (TP), AND INLET
- PROTECTION (IP). WASH WATER TO BE TRUCKED INTO THE SITE.
 INSTALL ADDITIONAL SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL
- CTOR. IVE EX. STORM STRUCTURE 19 AND REPLACE WITH THE PROPOSED STM-200 CUSTOM JUNCTION BOX. DEMOLISH PORTION OF EXISTING 18" PIPE TO THE NORTH TO INSTALL PROPOSED STORM STRUCTURE STM-202 AND 18" PIPE TO STM-200, BEMOVE TWN 95" PIPES WEST OF EX STORM STRUCTURE 13. INSTALL SINGLE 38" REP BETWEEN EX 13 AND STM-200. AS SHOWN ON C-110. DEMOLISH AND REMOVE REMAINING EXISTING SITE FEATURES AS NOTED ON C-102 AND BOOKING FASADE. STRAILEZ BOTSTRUED AREAS WITH THE PROPORRY SEEDING AS REQUIRED BY VA DEG SPEC. C-SSM-90.

- SEQUENCE OF CONSTRUCTION PHASE 2, SEE SHEET C-104
 G. ALL SEDIMENT AND EROSION CONTROL DEVICES INSTALLED AS PART OF PHASE 1 SHALL REMAIN IN PLACE AND FUNCTIONING, UNLESS
- ALL SEDIMENT AND EROSION CONTROL DEVICES INSTALLED AS PART OF PHASE I SHALL REMAIN IN PLACE AND FUNCTIONING, UNLESS OTHERWISE DIRECTED BY THE INSPECTION FOR THE PROPERTY OF AND INSTALL THE BIORETERMON FACILITY.

 INSTALL BILLET PROTECTION ON ALL NEW NILETS STABILIZE ALL UNIPAGED AREAS, INCLUDING TEMPORARY AND PERMANENT SEEDING AS REQUIRED BY A DIEG SPEC CASSING AND CASSINGTON WORK MORE THE PROPORATE AND INSPECTED AS EARLY AS SITE CONDITIONS.
- NALOW.

 RISTALL FINAL PAYMON FOR ASPIALT AND CONCRETE CURB AND GUTTER.

 RESTURE AND STRALLER ALL UPPAKED AREAS. THIS WORK MUST BE PERFORMED AND INSPECTED AS DATA Y AS STEE CONDITIONS ALLOW.

 RESTURE AND STRALLER ALL UPPAKED AREAS. THIS WORK MUST BE PERFORMED AND INSPECTED AS DATA Y AS STEE CONDITIONS AND AREA OF THE STRAIN AND AREA OF THE STR
- STRUCTIONS, CONTROLS SHALL BE REMOVED AND THE MICROSHIP PERMANERAL TO A SHALLD WITH VESETATION OF THE PROPERTY OF ALEXANDRAL INSPECTOR. PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATIONS, A PRE-INSTALLATION/CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE PROJECT PLANNER IN THE DEPARTMENT OF PLANNING & ZONNS TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES.

- MAINTENANCE
 A. ALL CONTROLS ARE TO BE INSPECTED ON A DAILY BASIS BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGED A ALL CONTROLS ARE TO BE RISPECTED ON A DALY BASIS BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE, ANY DAMAGED CONTROLS ARE TO BE REPRINED BY THE END OF THE WORKING DAY.

 REMOVED FROM THE SITE WASHINGTER TO BE TRUDGED INTO THE SITE.

 TO PREVENT LOGGING, STORMATER MANAGEMENT FACILITIES PROTECTED FROM DEBISS AND CONSTRUCTION MATERIAL. CONTRACTOR TO COORDINATE WITH SITE INSPECTOR TO DETERMINE METHODOLOGY OF PROTECTION.

 D. VIPOESWAYP PERMIT SHALL BE GRANALED BY CONTRACTOR CONDITIONS OF VIPOESWAYM PERMIT SHALL BE STRICTLY OSSERVED.

PRE-STORM EROSION AND SEDIMENT CONTROL CHECKLIST
THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL (ESC)
MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE COUNTY. THESE SUPPLEMENTARY PRACTICES
ARE IN ADDITION TO THOSE SHOWN IN AN ESC PLAN. ESC PRACTICES SHALL BE MODIFIED AS NEEDED TO ENSURE ONLY CLEAR WATER IS
DISCHARGED FROM THE SITE.

THE FOLLOWING ACTIONS SHALL BE TAKEN PRIOR TO STORM EVENTS WITH PREDICTED HEAVY ANDIOR LARGE VOLUME RAINFALL TO PREVENT SEDIMENT DISCHARGES FROM A CONSTRUCTION SITE. A TYPICAL SUMMER THUNDERSTORM IS AN EXAMPLE OF A STORM EVENT WITH PREDICTED HEAVY ANDIOR LARGE VOLUME RAINFALL.

PERIMETER CONTROLS

SUPER SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DETERIORATION OF THE FABRIC. FENCING SHALL BE REPLACED

MIMEDIATELY FITHE FABRIC IS DAMAGED OR WORN. SUPER SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (STD & SPEC C-PCM-04-3).

"I WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND, DAMAGED POSTS OR STAKES MUST BE

EPLACED.

SEDIMENT THAT HAS ACCUMULATED AGAINST THE SUPER SILT FENCE SHOULD BE REMOVED. ACCUMULATED

SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE PERIONS.

HAY BALES OR A STONE BERM SHOULD BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.

EXPOSED SLOPES AND SOIL

© EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL

DEPOSED SLOPES NOT AT THE FINAL STABLEZHON PHASE SHALL BE COVERED WITH TAPPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE REPORTED YES DEPOSED AND THE PROPERTY SECUREDAMOCRAED.

INSTALLED AT THE TOP OF CULT LEXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA. PROPERTY OF THE PR

STOCKPILES

"I STOCKPILED SOIL AND OTHER LOOSE MATERIALS THAT CAN BE WASHED AWAY SHALL BE COVERED WITH A TARP, PLASTIC SHEETING, OR

"THER STABLIZATION MATTING. THE COVER MUST BE PROPERLY SECUREDANCHORED DOWN TO PREVENT IT FROM BEING BLOWN OFF AND

EXPOSING MATERIALS TO RAIN. CONTROLS SUCH AS HAY BALES OR BOOMS SHOULD BE PLACED ALONG THE PERMETER OF THE STOCK PILE

[COVMHLL SIDE].

IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

- <u>GENERAL LAND CONSERVATION NOTES</u>
 1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE
- ALL EROSION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ALL STORM AND SANITARY SEWER LINES NOT IN STREET ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS
- AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIM 4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHED ARE TO BE COMPACTED, SEEDED AND MULCH
- ALL TEMPORARY BERMS, DIVERSION AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME
- DURING CONSTRUCTION, ALL STORM INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS PEOULIBED BY CONSTRUCTION PROCESS.
- ANY DISTURBED AREA NOT COVERED IN NOTE # 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SECEDO NO LATER THAN MAY 1ST.
- AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. CITY OF ALEXANDRIA INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILATION MEASURES.

- GENERAL EROSION AND SEDIMENT CONTROL NOTES
 FS-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL
 TO MINIMUM STANDARDS AND UNLESS OF MENTINE INDIGNIED, ALL VEGETATIVE AND STROCKIDING, ERUSION AND SEDIMENT COUNTY PRACTICES OF MENTINE STROCKING AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA'S REGULATIONS 4VAC56-36 VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA'S REGULATIONS 4VAC56-36 VIRGINIA'S REGULATIONS 4VAC56-36 VIRGINIA'S NEEDIMENT CONTROL REGULATIONS 4VAC56-36 VIRGINIA'S NEEDIMENT CONTROL REGULATIONS.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT
 - PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY ERSON CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING
- ES-7: ALL DISTURBED AREA ARE TO BE DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNDF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.



February 16 through April – annual/cereal rye

May 1 through August 15 - foxtail/German millet August 16 through February 15 - annual/cereal rye

* Use legume seed that is properly inoculated with specified Rhizobia. Legumes recommended unless periodic N fertilization intended. Weecing lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10 to

*** Increase seeding rate if KY-31 is used rather than VCIA/VDOT improved varieties. Bermudsgrass can be added to substitute for Tall or Herd Feecuse in the Low Maintenance mixes for the Southern Pledmont, particularly on sandy soils or hot (S and W) facing slopes. May through October, use hulled seed. All other seeding periods, use hulled seed. All other seeding periods, use hulled seed.

Note: Seed mixes are suggested and subject to modification based on site-specific conditions by an agronomist or other qualified revegetation professionals. All seed rates expressed as PLS (Pure Live Seed; see Table C-SSM-10-9).

SHEET NAME: EROSION AND S APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN No. DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION DATE DATE RECORDED PAGE NO. INSTRUMENT NO. DEED BOOK NO.

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CITY OF ALEXANDRIA
DASH FACILITY
3000 BUSINESS CENTER DRIVE
ALEXANDRIA, VIRGINIA 22314

CONTROL NOTES

SEDIMENT

50/50 Mix of annual ryegrass (Lolium multi-florum) & cereal (winter) rye (Secale cereale) Sept. 1 - Feb. 15 50 - 100Feb. 16 - Apr. 30* 60 - 100 Annual ryegrass (Lolium multi-florum) May 1" - Aug. 31 German millet (Setaria italica) 50 * The shift date for annual rye to German millet should be April 15 for the Piedmont and Coastal Plain, rather than May 1.

Job No. 23-0754.00 SHEET NO: C-105

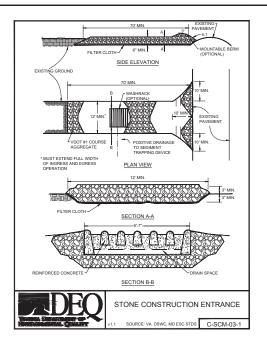
Planting Dates

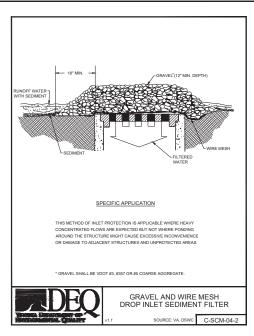
Table C-SSM-09-3 Plant Material for Temporary Seeding

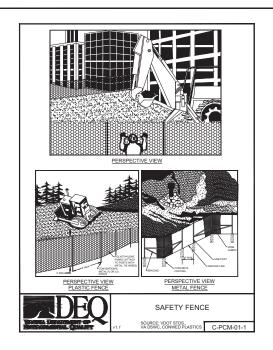
Species

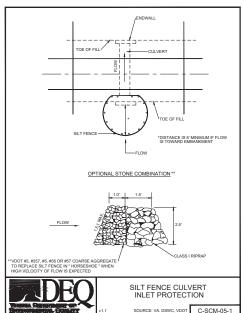
Rate (pounds per

Acceptable Temporary Seeding Plant Materials "Quick Reference for all Re

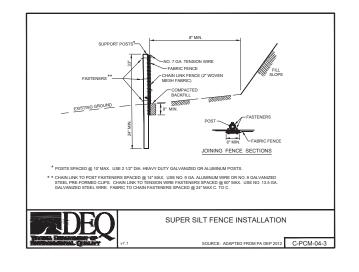


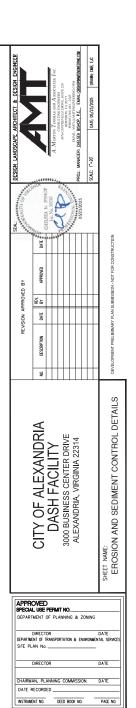




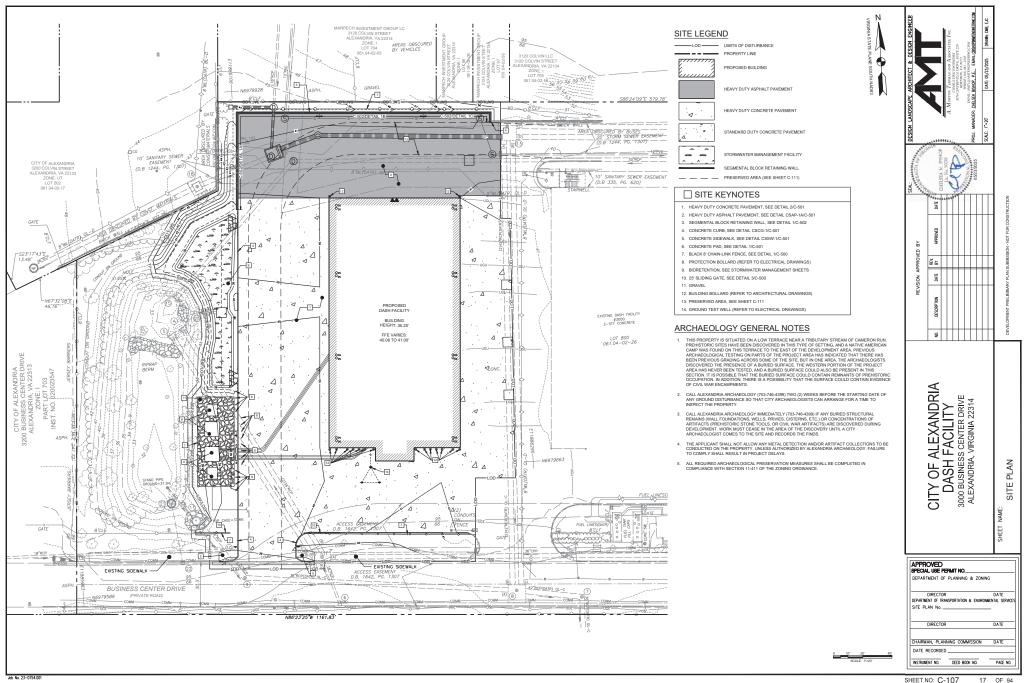


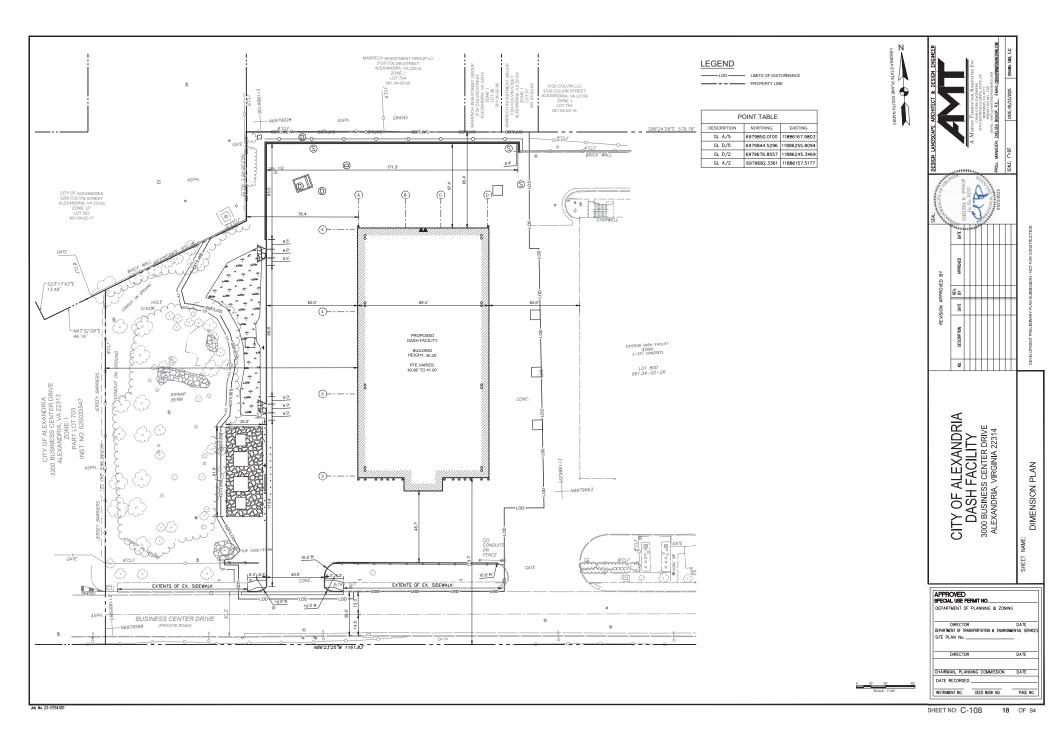
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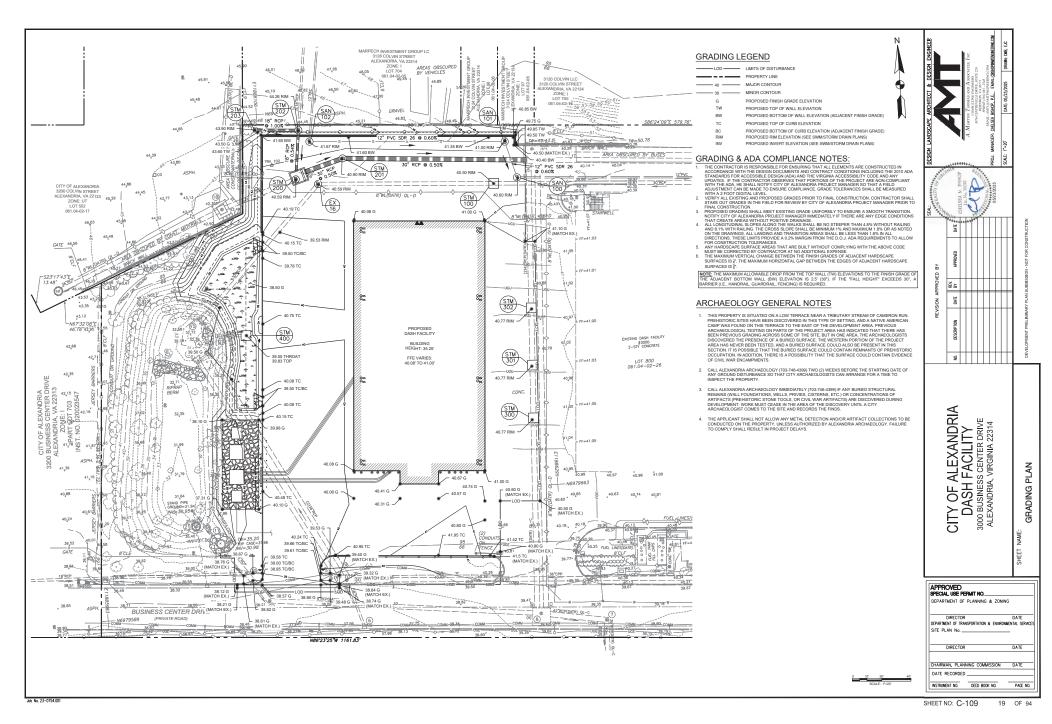


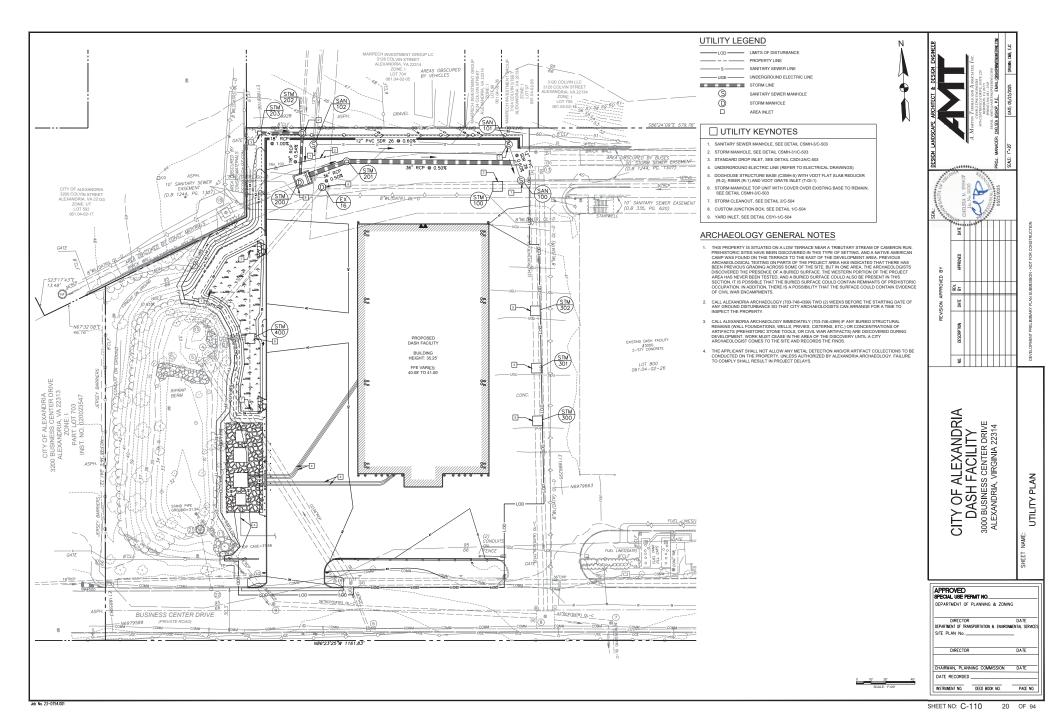


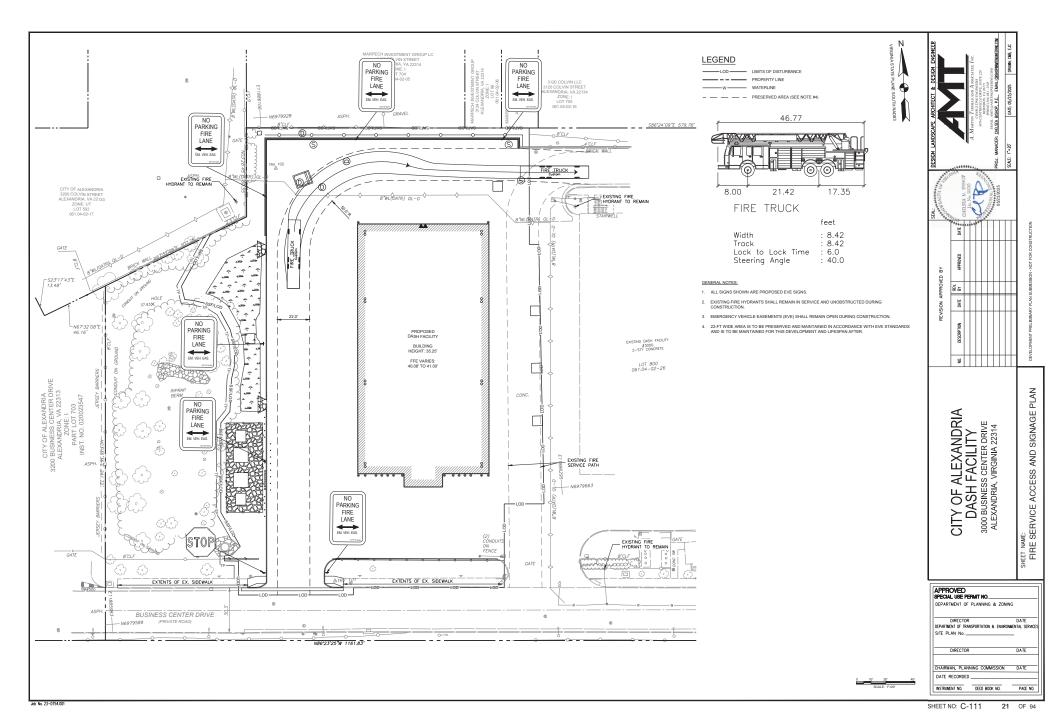
SHEET NO: C-106 16 OF 94

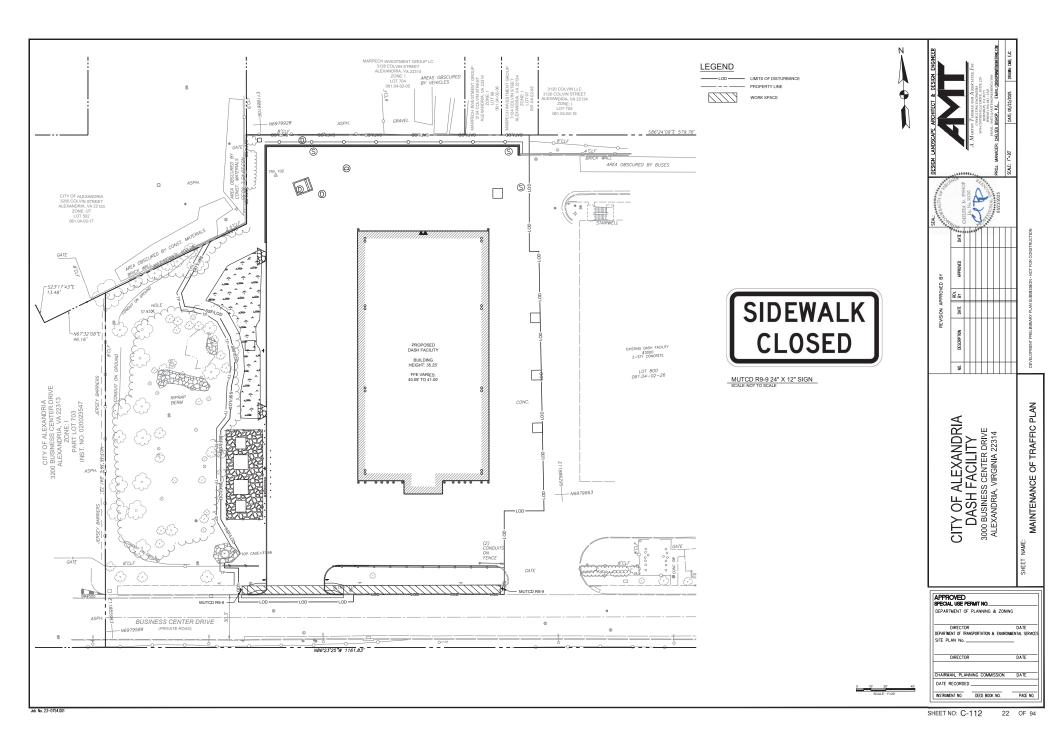


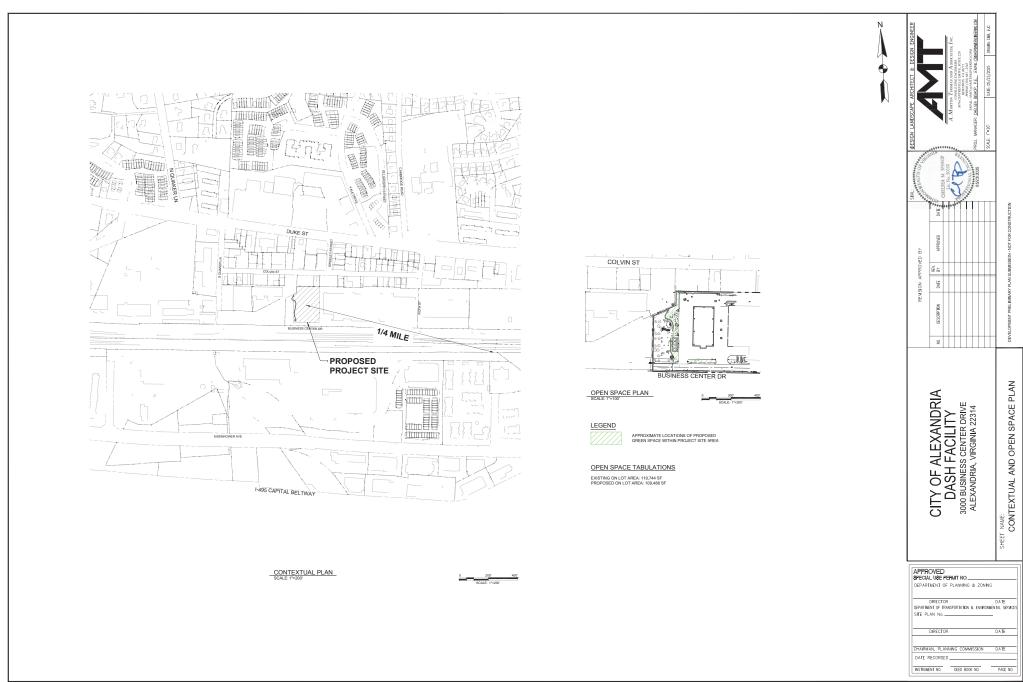


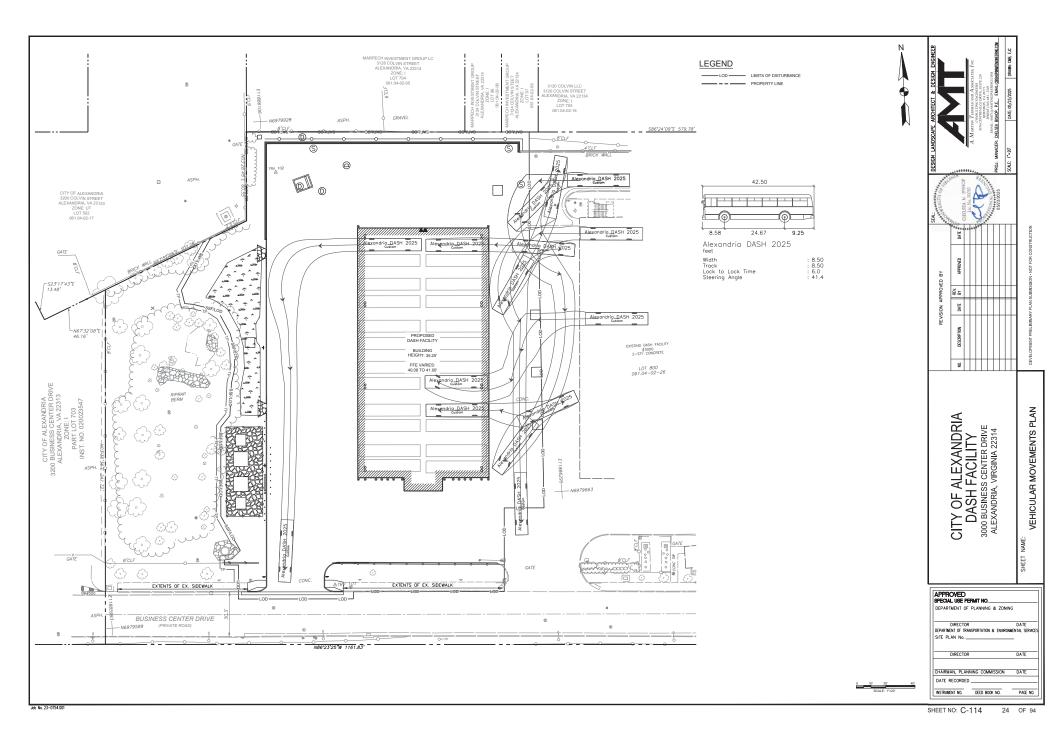


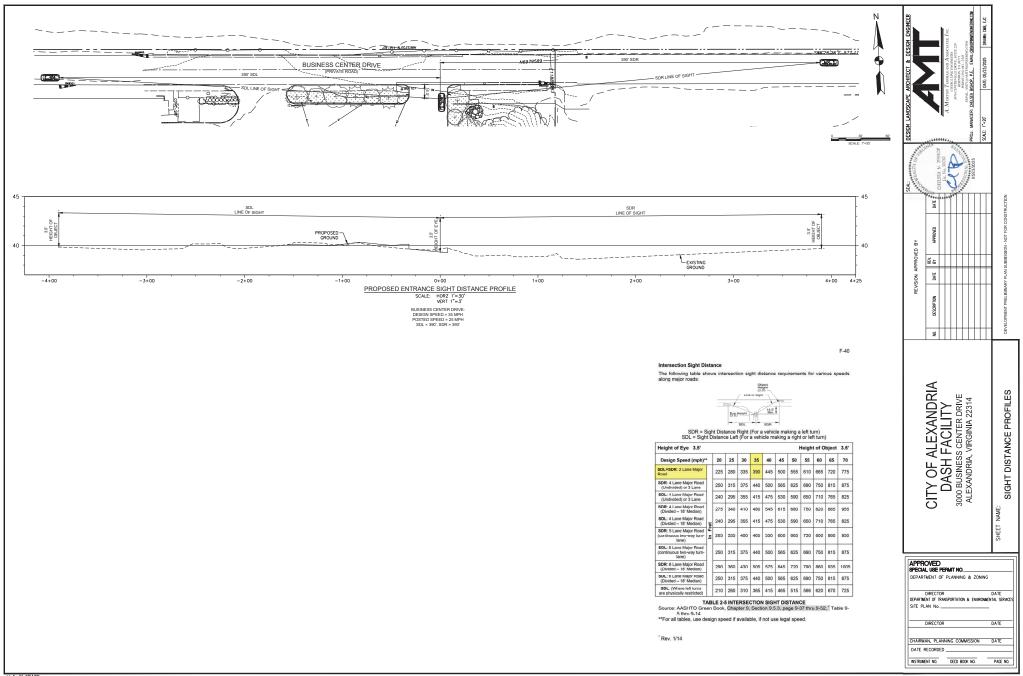




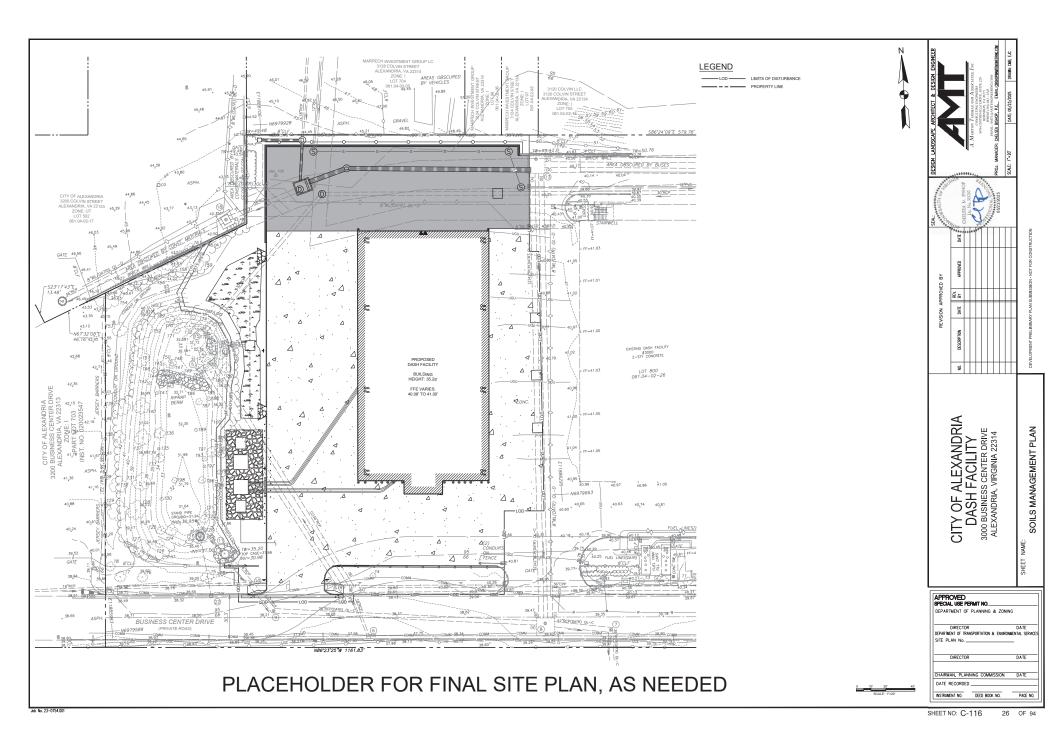


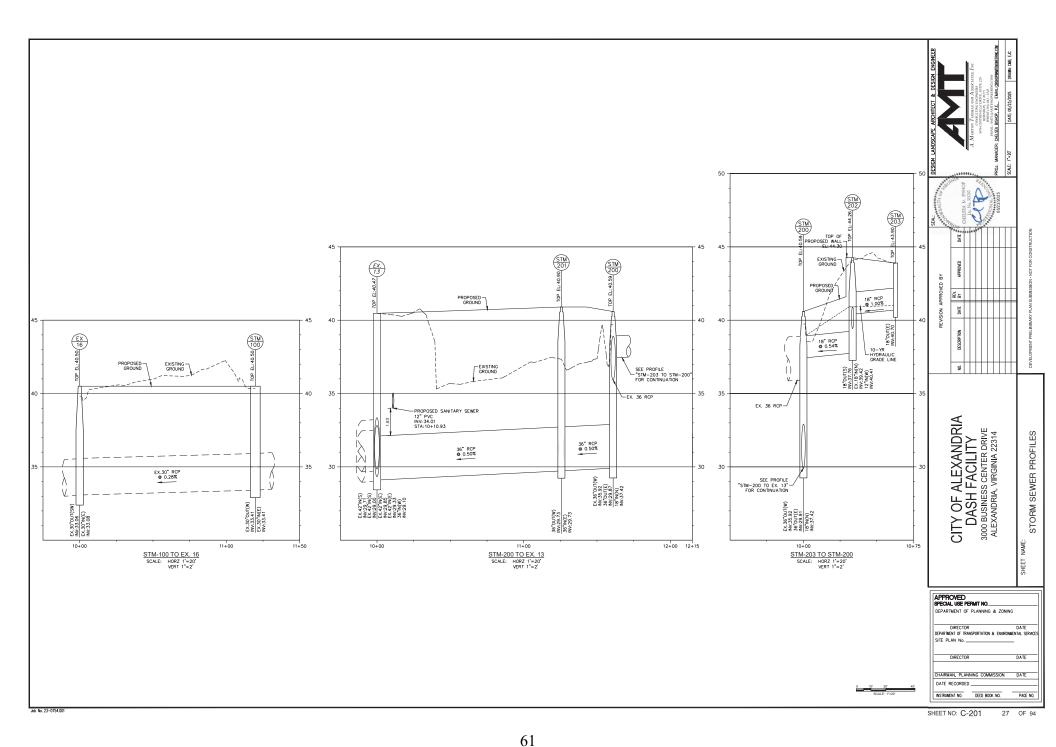


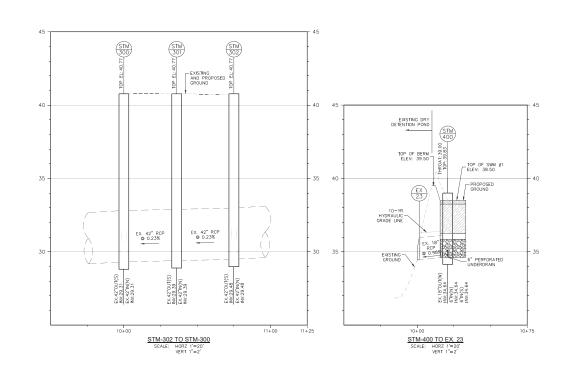




SHEET NO: C-115 25 OF 94

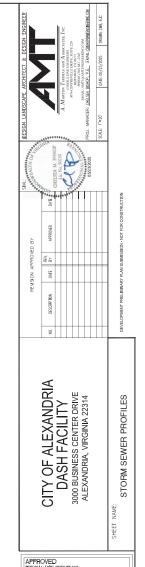






		STORMS	STRUCTURE	SCH	EDULE	
STRUCTURE	TYPE	NORTHING	EASTING	TOP	INVERT IN	INVERT OUT
EX. 16	MANHOLE	6979877.80	11886144.75	40.50	30" (E) 33.08"	30" (SW) 33.06
STM-100	INLET	6979870.80	11886264.28	40.50	30" (E) 33.41"	30" (W) 33.41'
STM-200	JUNCTION BOX	6979882.02	11886129.75	40.59	18" (N) 37.61' 36" (E) 29.87'	36" (W) 35.92'
STM-201	MANHOLE	6979894.28	11886162.47	40.90	36" (E) 29.73"	36" (SW) 29.73
STM-202	MANHOLE	6979915.33	11886133.60	44.26	18" (N) 39.42' 18" (W) 40.41'	18" (S) 37.76"
STM-203	INLET	6979917.26	11886104.44	43.90		12" (E) 40.70"
STM-300	INLET	6979709.51	11886281.30	40.77	42" (N) 29.31"	42" (S) 29.31"
STM-301	INLET	6979745.49	11886282.84	40.77	42" (N) 29.39"	42" (S) 29.39'
STM-302	INLET	6979784.46	11886284.51	40.77	42" (N) 29.48'	42" (S) 29.48'
STM-400	INLET	6979777.78	11886089.15	39.83	6" (N) 35.00" 6" (S) 35.00"	18" (W) 34.64'

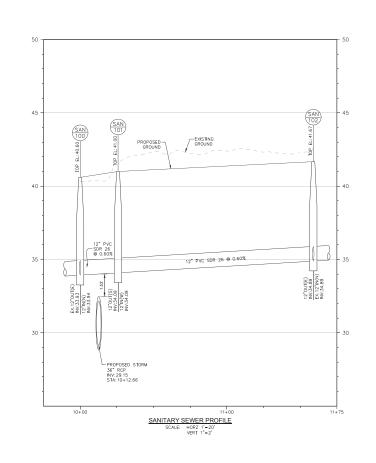
	STORM	PIPE	SCHEDULE	Ē
FROM	то	SIZE	MATERIAL	LENGTH (FT)
EX. 13	STM-201	36"	RCP	125.73
STM-201	STM-200	36"	RCP	27.21'
STM-202	STM-200	18"	RCP	28.02
STM-203	STM-202	18"	RCP	29.23



DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION &	
SITE PLAN No.	
DIRECTOR	DATE
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMIS	SION DATE
DATE RECORDED	

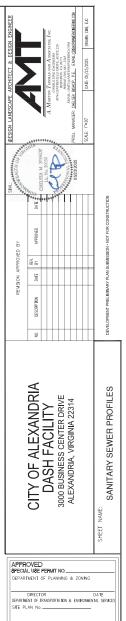
28 OF 94

SHEET NO: C-202



	SANI	TARY SEW	ER STRUC	TURE S	SCHEDULE	
STRUCTURE	TYPE	NORTHING	EASTING	TOP	INVERT IN	INVERT OUT
SAN-100	MANHOLE	6979873.88	11886280.32	40.60'	12" (N) 33.94'	12" (E) 33.93"
SAN-101	MANHOLE	6979898.78	11886273.51	41.00'	12" (W) 34.09'	12" (S) 34.09'
SAN-102	MANHOLE	6979907.08	11886140.66	41.67	12" (N) 34.89'	12" (E) 34.89"

	SANITARY	SEWE	R PIPE SCHE	DULE
FROM	то	SIZE	MATERIAL	LENGTH (FT)
SAN-101	SAN-100	12"	PVC SDR 26	25.82'
SAN-102	SAN-101	12"	PVC SDR 26	133.12'



DIRECTOR DATE

BERNARENT OF BRANSPORTATION & ENVIRONMENTAL SERVICE

SITE PLAN NO.

DIRECTOR DATE

CHARMAN, PLANNING COMMISSION DATE

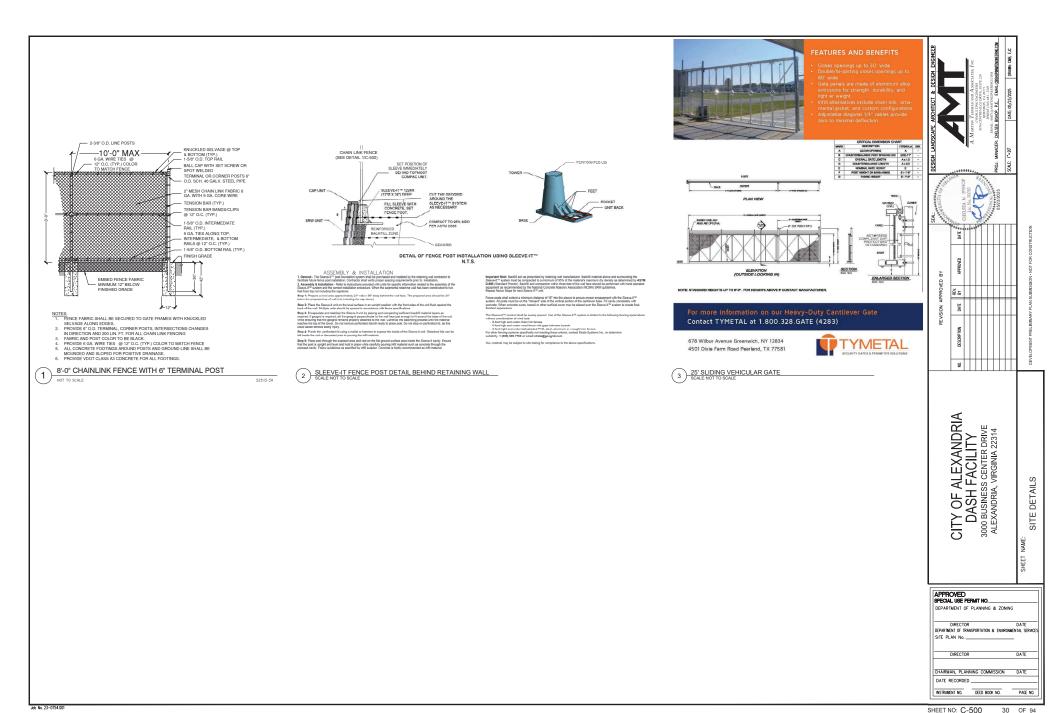
CHARMAN, PLANNING COMMISSION DATE

RESTRUMENT NO. BEED BOOK NO. PAGE NO.

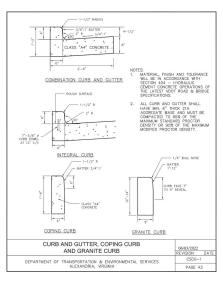
0 10' 20' 40' SCALE: 1"=20'

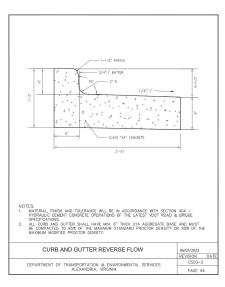
r=20°

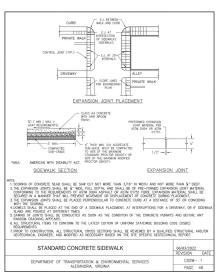
SHEET NO: C-203 29 OF 94

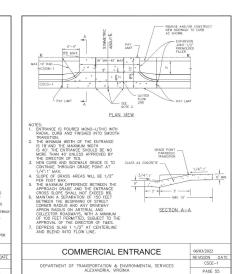


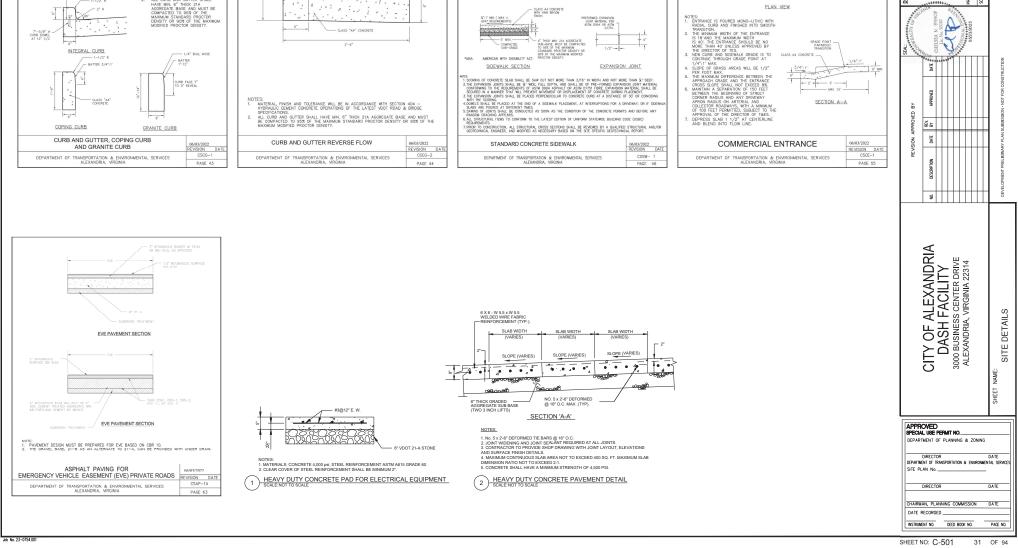
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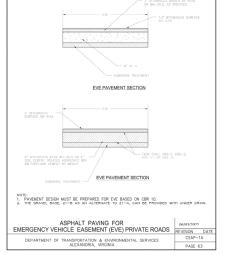


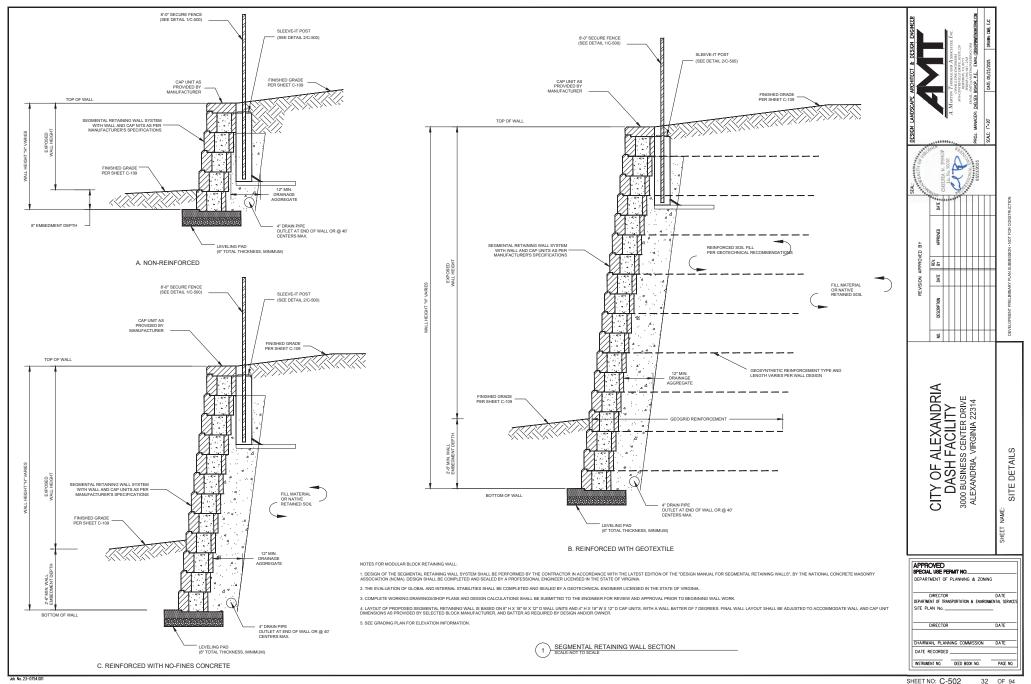


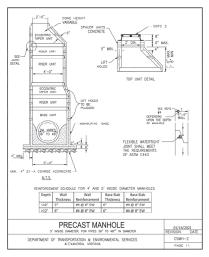


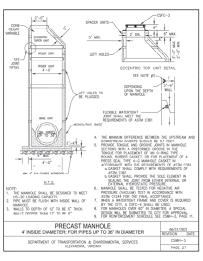


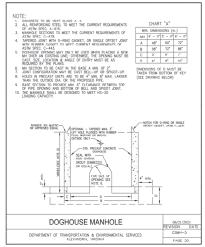


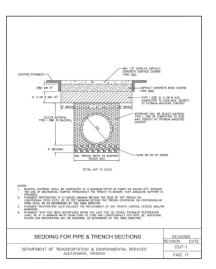


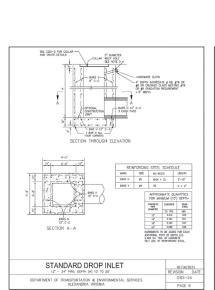












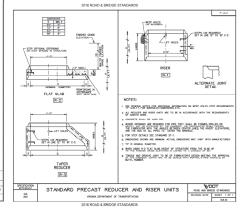


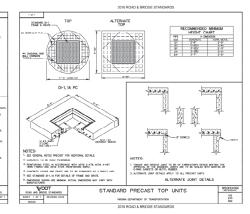
ENERAL NOTES:

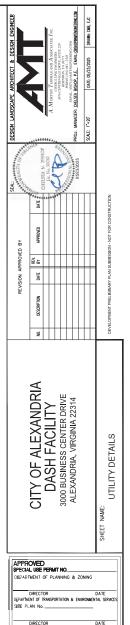
1. CUPPE OF INLET (b) TO BE SHOWN ON PLANS, FOR BUPTH GREATER THAN TO USE STANDARD CSDI-ZA

2. THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMBYT MORTAR IN ACCORDANCE WITH CSS-1 TO PREVENT
STANDARD OF POUNDS OF WATER IN THE STRUCTURE.

THIS ITEM MAY BE PRECAST OR CAST- IN-PLACE.





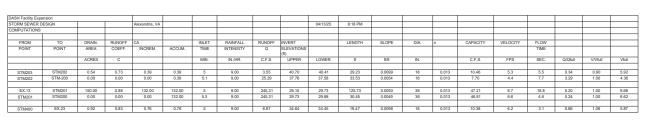


CHAIRMAN, PLANNING COMMISSION DATE

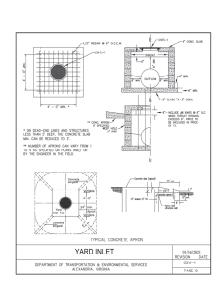
PAGE NO.

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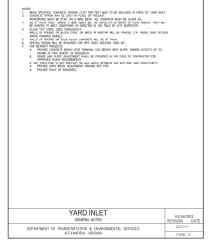
же 16 27-0754001 SHEET NO: C-503 33 0F 94

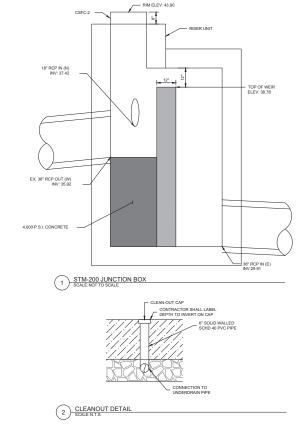


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DASH Facility Ex																						
HYDRAULIC GR.																			04/13/25	8:17 PM		
COMPUTATIONS	S																					
	HGL down																			HGL up		
	Outlet											JUNCTI	ON LOSS							Inlet	RIM/	
	Water																		Final	Water	Inflow	
Inlet	Surf Elev	Do	Qo	Lo	Sfo	Hf	Vo	Ho	Qi	Vi	QiVi	Vi^2	Hi	Angle	HΔ	Ht	1.3Ht	0.5Ht	Н	Surf Elev	Elev	Freeboard
Str.	(ft)	(in)	(cfs)	(ft)	(%)	(ft)	(fps)	(ft)	(cfs)	(fps)		2g	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
STM202	38.78	18	25.29	33.53	0.06	1.94	4.36	0.07	25.29	4.36	110.13	0.29	0.10	87	0.20	0.38	0	0.19	2.13	40.91	44.26	3.35
STM203	40.91	18	3.55	29.23	0.00	0.03	5.34	0.11							0.00	0.11	0	0.06	0.09	41.00	43.90	2.90
STM400	36.27	18	6.87	19.47	0.00	0.08	6.22	0.15							0.00	0.15	0	0.08	0.16	36.43	39.00	2.57



Job No. 23-0754.001



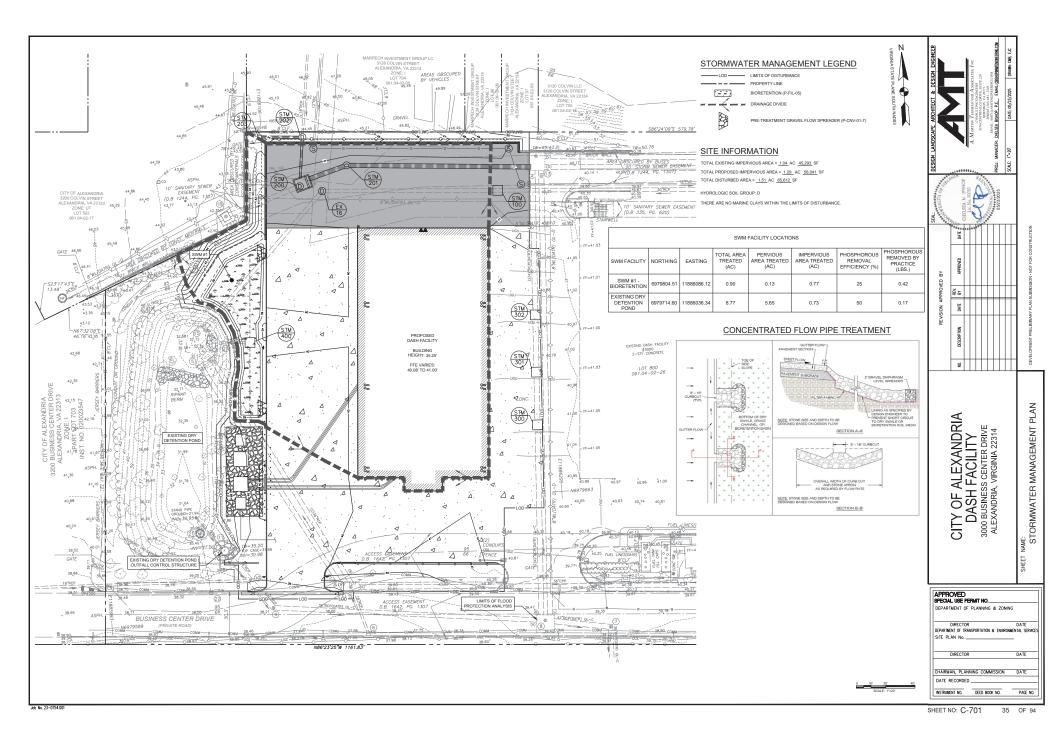




DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN No. _ DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION DATE DATE RECORDED INSTRUMENT NO. DEED BOOK NO.

SHEET NO: C-504

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WATER QUANTITY NARRATIVE

WATER QUANTITY COMPLIANCE FOR THE SITE IMPROVEMENTS IS BEING ACCOMPLISHED BY THE REDUCED CURVE NUMBER GENERATED BY THE PROPOSED BIORETENTION LEVEL I (P-FIL-05) AND THE VOLUME PROVIDED BY THE EXISTING DRY DETENTION POND. THE SITE SHALL PROVIDE STORMWATER DETENTION CAPACITY SUFFICIENT TO PASS THE CITY OF ALEXANDRIA'S WATER QUALITY VOLUME DEFAULT (WQVD) AND THE ALLOWABLE 1-YEAR AND 10-YEAR PEAK FLOW RATES FOLLOWING THE LAND-DISTURBING ACTIVITIES BY UTILIZING ENERGY BALANCE METHODOLOGY PER CITY CODE SECTION 13-109(F)(1)(c) AND 13-109(F)(2)(b)(ii) CHANNEL PROTECTION AND FLOOD PROTECTION, RESPECTFULLY.

THE TOTAL APPLICABLE AREA (LIMITS OF DISTURBANCE) IS 1.51 ACRES (65,612 SF).

THIS SPREADSHEET UTILIZES THE VIRGINIA RUNOFF REDUCTION METHOD ADJUSTED CURVE NUMBERS FROM THE CHANNEL AND FLOOD PROTECTION TAB, SHOWN ON SHEET C-704, UTILIZING ENERGY BALANCE METHODOLOGY, THE PRE- AND POST-DEVELOPED RUNOFF COMPUTATIONS FOR THE LIMITS OF DISTURBANCE ARE DEVELOPED TO ESTABLISH ALLOWABLE RELEASE RATES FOR THE DISTURBED AREA WITHIN THE OUTFALL AS WELL AS MINIMUM REQUIRED DETENTION, FOR THE 1-YEAR AND 10-YEAR EVENTS. THE POST DEVELOPED PEAK FLOWS ARE THE SAME AS THE PRE-DEVELOPED PEAK FLOW RATE. BASED ON THE ENERGY BALANCE SPREADSHEET (THIS SHEET) AND VIRGINIA STORNIWATER MANAGEMENT HANDBOOK VERSION 1.1, APPENDIX A.5, 3,323 CF MUST BE PROVIDED TO MEET BOTH CHANNEL PROTECTION AND FLOOD CONTROL REQUIREMENTS.

THE CITY OF ALEXANDRIA'S WOVD IS COMPUTED BELOW:

POST-DEVELOPED IMPERVIOUS AREA WITHIN LOD = 56,042 SF

WQVD = 1/2" x 56,042 SF = 2,335 CF

SINCE THE FLOOD PROTECTION REQUIREMENT IS GREATER THAN THE WQVD, 3,323 IS THE TARGET FOR QUANTITY CONTROL.

THE TOTAL VOLUME PROVIDED BY THE EXISTING DRY DETENTION POND IS 34 871 CE. SINCE THIS VOLUME IS GREATER THAN 3.323 CE. BOTH THE WATER QUANTITY AND THE CITY OF ALEXANDRIA'S WQVD REQUIREMENT ARE SATISFIED

ADDITIONAL STORAGE WILL BE PROVIDED IN THE BIORETENTION MEDIA AND STONE VOIDS. THEREFORE, THE WATER QUANTITY REQUIREMENT FOR FLOOD CONTROL IS SATISFIED.

PRE-DEVELOPMENT IMPERVIOUS AREA MAP

PRE-DEVELOPMENT IMPERVIOUS AREA = 45,293 SF (1.04 AC)

PRE-DEVELOPMENT MANAGED TURF AREA = 20,319 SF (0.47 AC)

PER FEMA FLOODPLAIN MAP 5155190037F, DATED MAY 31, 2022, THIS SITE IS WITHIN THE FLOODPLAIN IN ZONE X.

THERE IS A NO RESOLURCE PROTECTION AREA LOCATED ON THE SUBJECT PROPERTY

SWM Water Quantity Energy Balance Workshee

SITE AREA (acre)	1.51			
	1-ye	ar	10-year	
	PRE	POST (adjusted)	PRE	POST (adjusted)
P	2.70	2.70	5.20	5.20
CN	92	93	92	93
S=1000/CN-10	0.87	0.75	0.87	0.75
0.25	0.17	0.15	0.17	0.15
RV=(P-0.2S) ² /(P-0.2S)+S	1.88	1.97	4.28	4.39

QPost Development <= I.F.* (Qpre-development* RVpre-development)/RVDeveloped)

LE	0.8	_	ı
CHANNEL PROTECT	ION (1-YEAR)		ſ
Qpre-development	3.45	From TR-55	Γ
QPost Development	3.59	From TR-55	ſ
RVPost Development (with runoff			ſ
reduction)	1.95	From VRRM	l
Qallowable	3.32		I
Qallowable/QPost Development	0.93		ſ
Vs/Vr	0.14	Fig 11.7 of DEQ Manual	ſ
Vs	0.28		ſ
Storage required (cf)	1539		ſ

FLOOD CONTROL (10-YEAR)
Opre-development	7.58
QPost Development	7.71
RVPost Development (with runoff	
reduction)	4.41
Qallowable	7.36
Qallowable/QPost Development	0.96
Vs/Vr	0.14
Vs	0.61
Storage required (cf)	3323

OUTFALL NARRATIVE

A MAJORITY OF THE 9.21 ACRE LOT AND PORTIONS OF BUSINESS CENTER DRIVE ARE GENERALLY COLLECTED IN A SERIES OF STORM DRAINS AND CONVEYED FROM EAST TO WEST INTO THE EXISTING ON-SITE DETENTION POND. THE POND WAS DESIGNED TO PROVIDE DETENTION FOR THE SITE'S ULTIMATE DEVELOPMENT INCLUDING THIS PROJECT. A CONTROL STRUCTURE FOR THE POND RELEASES RUNOFF INTO A PIPED SYSTEM WHICH OUTFALLS TO THE SOUTH INTO CAMERON RUN

REFER TO SHEET C-703 FOR POND ROUTING CALCULATIONS TO DEMONSTRATE THE EXISTING POND IS ADEQUATE TO PROVIDE QUANTITY CONTROL FOR THIS PROJECT.

CHANNEL AND FLOOD PROTECTION REQUIREMENTS ARE BEING MET ON-SITE. AS DESCRIBED

CHANNEL PROTECTION ANALYSIS
PER THE CITY OF ALEXANDRIA ZONING ORDINANCE SECTION 13-109(F)(1)(e), THE STORMWATER CONVEYANCE SHALL CONVEY THE ONE-YEAR 24-HOUR STORM PER: Qdev <= I.F. x (Qpre-dev x RVpre-dev)/RVdev

THE SWM WATER QUANTITY ENERGY BALANCE WORKSHEET ON THIS SHEET CALCULATES A CN OF 92 FOR THE LIMITS OF DISTURBANCE. PER THE HYDROCAD REPORT ON C-703, THE 1-YEAR PRE-DEVELOPED RELEASE RATE FROM THE POND IS 31.00 CFS. IN THE POST-DEVELOPED CONDITION, THE 1-YEAR PEAK RELEASE RATE IS 30.86 CFS. THEREFORE THE CHANNEL PROTECTION REQUIREMENT IS SATISFIED.

PER THE CITY OF ALEXANDRIA ZONING ORDINANCE SECTION 13-109(E)(1)(d). SINCE 13-109(E)(1)(C). IS USED TO DEMONSTRATE COMPLIANCE WITH THE CHANNEL PROTECTION CRITERIA, THE LIMITS OF ANALYSIS IS ALSO SATISFIED.

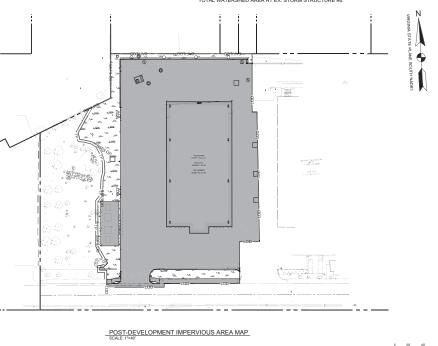
FLOOD PROTECTION ANALYSIS
PER THE CITY OF ALEXANDRIA ZONING ORDINANCE SECTION 13-109(F)(2)(b)(i), SINCE THIS SITE
CURRENTLY EXPERIENCES LOCALIZED FLOODING, THE POST-DEVELOPED PEAK FLOW RATE FOR
THE 10-YEAR 24-HOUR STORM EVENT SHALL BE LESS THAN THE PRE-DEVELOPED PEAK FLOW RATE FOR THE 10-YEAR 24-HOUR STORM EVENT.

THE SWM WATER QUANTITY ENERGY BALANCE WORKSHEET ON THIS SHEET CALCULATES A CN OF 92 FOR THE LIMITS OF DISTURBANCE. PER THE HYDROCAD REPORT ON C-703, THE 10-YEAR PRE-DEVELOPED RELEASE RATE FROM THE POND IS 63.39 CES. IN THE POST-DEVELOPED CONDITION, THE 10-YEAR PEAK RELEASE RATE IS 63.10 CFS. THEREFORE THE FLOOD CONTROL REQUIREMENT IS SATISFIED.

PER THE CITY OF ALEXANDRIA ZONING ORDINANCE SECTION 13-109(F)(2)(c)(i). THE LIMITS OF ANALYSIS SHALL EXTEND TO A POINT WHERE THE SITE'S CONTRIBUTING DRAINAGE AREA IS LESS THAN OR EQUAL TO 1.0% OF THE TOTAL WATERSHED AREA DRAINING TO A POINT OF

THE SITE DRAINAGE AREA IS 1.51 AC AND THE TOTAL WATERSHED DRAINAGE AREA TO THE POINT OF ANALYSIS IS 161 ACRES. THEREFORE THE SITE AREA IS LESS THAN 1.0% OF THE TOTAL WATERSHED AREA AT EX. STORM STRUCTURE #8.

POST-DEVELOPMENT MANAGED TURF AREA = 9,571 SF (0.22 AC)





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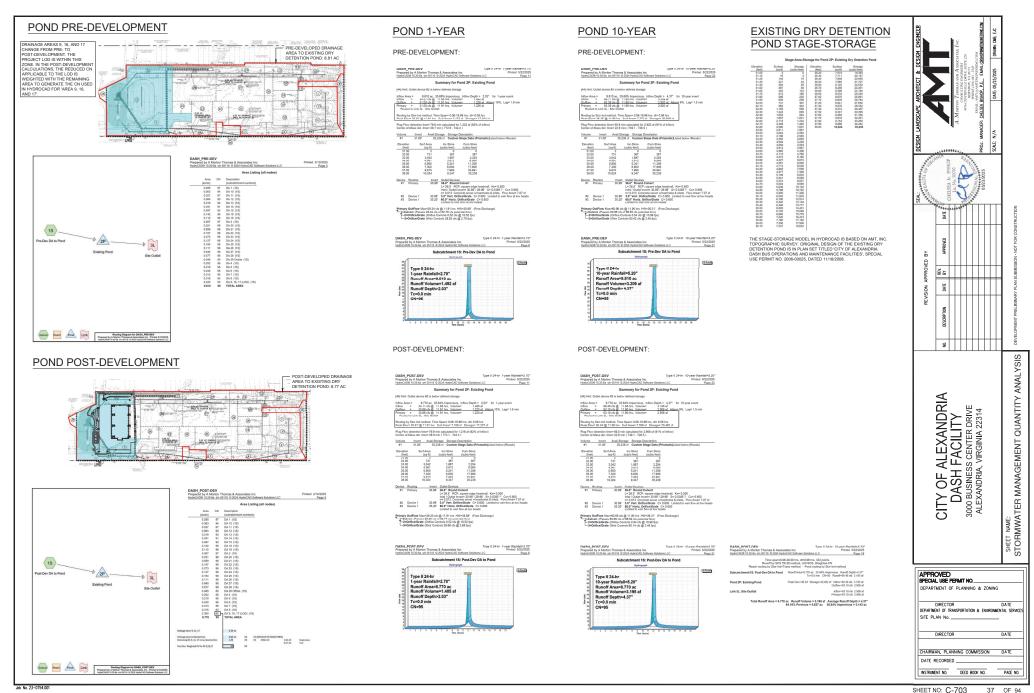
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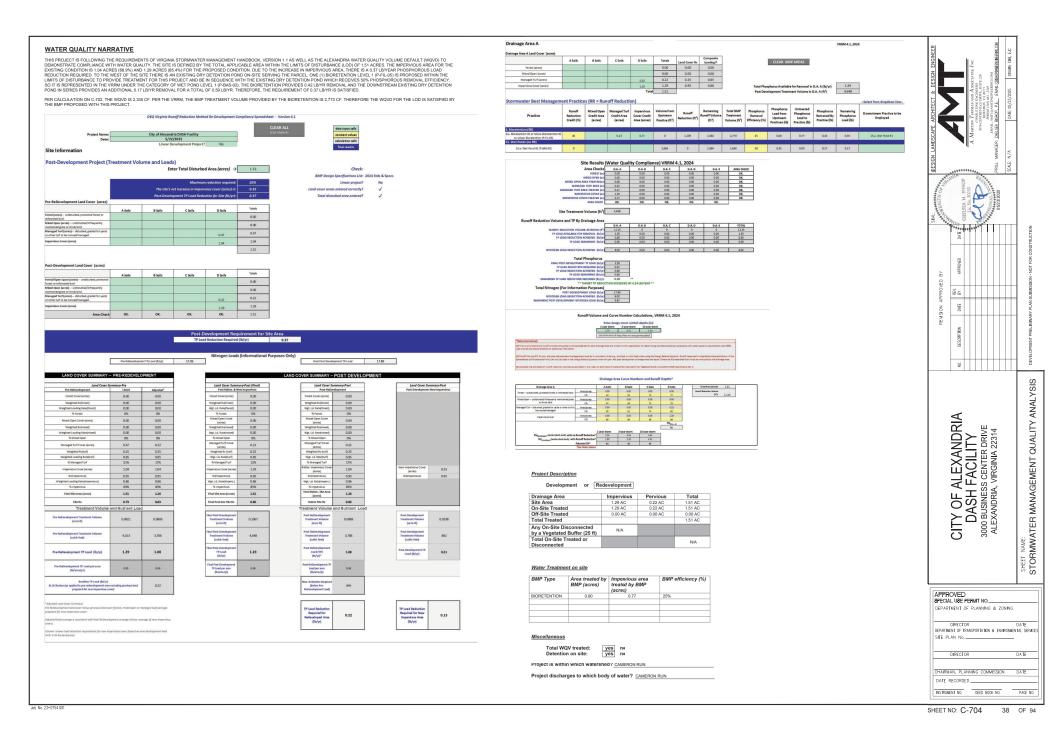
APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICE SITE PLAN No. DIRECTOR CHAIRMAN, PLANNING COMMISSION DATE RECORDED PAGE NO. INSTRUMENT NO. DEED BOOK NO.

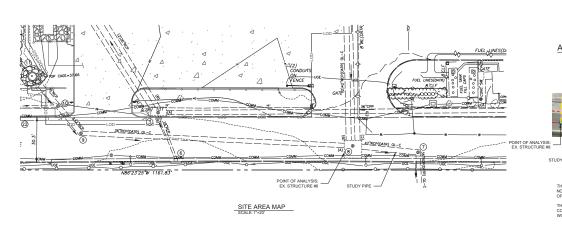
> 36 OF 94

SHEET NO: C-702

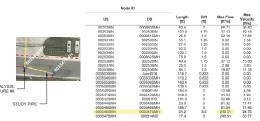
POST-DEVELOPMENT IMPERVIOUS AREA = 56.041 SF (1.29 AC)





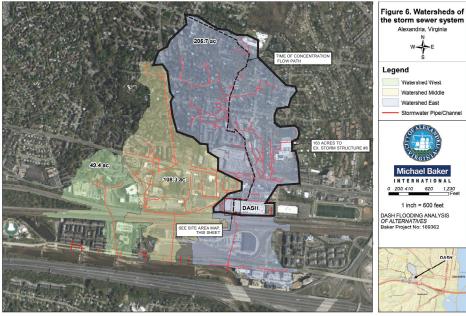


ADEQUATE OUTFALL ANALYSIS



THIS PROJECT IS IN AN AREA THAT EXPERIENCES FLOODING AND THE EXISTING CITY CONVEYANCE SYSTEM IS NOT ADEQUATE. THIS HAS BEEN DOCUMENTED TO THE CITY IN THE REPORT TITLED DASH FLOODING ANALYSIS OF ALTERNATIVES ALEXANDRA, WY, PREPARED BY MICHAEL BASKET INTERNATIONAL, DATED 1204/2025 AND AND ALTERNATIVES.

THIS PROJECT IS PROVIDING A 36" RCP CONNECTION BETWEEN TWO OF THE CITY'S THROUGH-SITE CONVEYANCE SYSTEMS PER STAFF REQUEST TO PROVIDE FLOODING MITIGATION RELIEF. THIS PROJECT IS NOT WORSENING FLOODING OR MAKING IMPROVEMENTS FOR CITY INFRASTRUCTURE.



SOURCE: DASH FLOODING ANALYSIS OF ALTERNATIVES REPORT, PREPARED BY MICHAEL BAKER INTERNATIONAL, DATED 12/04/2019
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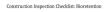
Project Description		
	Manning	
Friction Method	Formula	
Solve For	Discharge	
Input Data		
	0.013	
Roughness Coefficient Channel Slope	0.013 0.004 n/n	
Normal Depth	42.0 in	
Diameter	42.0 in	
Districtor	44.0 III	
Results		
Discharge	63.63 cfs	
Flow Area	9.6 ft ²	
Wetted Perimeter	11.0 ft	
Hydraulic Radius	10.5 in	
Top Width	0.00 ft 30.0 in	
Critical Depth	100.0 %	
Percent Full Critical Slone	0.005 ft/ft	
	6.61 ft/s	
Velocity	6.61 ft/s 9.68 ft	
Velocity Head	4.18 ft	
Specific Energy Froude Number		
Maximum Discharge	(N/A) 68.44 cfs	
	63.63 cfe	
Discharge Full Slope Full	0,004 ft/ft	
Flow Type	Undefined	
riow type	Uncernied	
GVF Input Data		
Downstream Depth	0.0 in	
Length	0.0 ft	
Number Of Steps	0	
GVF Output Data		
Upstream Depth	0.0 in	
Profile Description	N/A	
Profile Headioss	0.00 ft	
Average End Depth Over Rise	0.0 %	
Normal Depth Over Rise	0.0 %	
Downstream Velocity	0.00 Pt/s	
Upstream Velocity	0.00 ft/s	
Normal Depth	42.0 in	
Critical Depth	30.0 In	
Channel Slope	0.004 ft/ft	
Critical Slope	0,005 ft/ft	

Center 27 Siemon Company Drive Suite 200 W Waterfown, CT 06795 USA +1-203-755-1666 FlowMaster [10.03.00.03] Page 1 of 1 CILLY OF ALEXANDRIA ASSOCIATED BURGARD DATE DEPARTMENT OF PLANING & ZONNIG DECEDIOR OF PLANING ASSOCIATED BURGARD DATE DEPARTMENT OF PLANING & ZONNIG DATE DEPARTMENT OF PLANING COMMISSION DATE DATE RECORDED DATE RECORDED DATE RECORDED DATE DATE RECORDED DATE RECORDE

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SHEET NO: C-705 39 OF 94





Project Name:	Address:
DSP/DSUP/GRD #:	Construction Start Date:
Contractor:	Telephone:
Certifying Professional:	Telephone:
BMB ID and Consent Locations	

- Surveyor

 A certification is required pursuant to 9VAC25-870-55 of the Virginia Stormwater Manage all stormwater BMP facilities.

- Software Delt's An employment.

 Mark cash term a complete or write in "NA" for those items that are not applicable.

 Fill in the blanks for repeatured information on dimension, materials, etc.

 Fill in the blanks for repeatured information on dimension, materials, etc.

 Fivelise one come labeled photo as populicable tems; clock soes indicate items that require photos. Photos materials are in the proposition of the proposition o

Preconstruction Meeting				
Complete	Photo	Description	Date	
		The tentative schedule for construction has been identified and the requirements and schedule for interim inspections verified.		
		A pre-construction meeting with the contractor designated to install the bioretention area, the City SWM/ESC inspector, and the person completing this checklist has been conducted.		
		The SWPPP has been reviewed and requirements verified by the contractor, the person conducting inspections, and the City SWM/ESC inspector (projects over one acre of disturbance)		

Complete	Photo	Description	Date
		The bioretention area has not been impacted during construction or has been remediated prior to installation.	
0		All pervious areas of the contributing drainage areas have been adequately stabilized with a thick layer of vegetation or evolvin control measures are still in place and stormwater has been diverted around the area.	
		Impervious cover draining to the BMP has been constructed and the area is free of equipment, vehicles, and material storage.	
		Stormwater is diverted around the bioretention area and perimeter E&S controls to protect the BMP during construction have been installed.	

Excavation	1		
Complete	Photo	Description	Date
		The area of bioretention excavation is marked and the size and location conform to	

This document must be recorded as an addendum to the stormwater management/ BMP facilities operation and maintenance agreement

- year following installation: all inspections. For the first 6 months following construction, the bioretention area util be inspected at least twice after storm events that exceed 1/2 inch of rainfall, it reseeding, inspect for bare or eroding areas in the contributing drainage area out the bioretention area, and make cure they are immediately stabilized with gra-ound the bioretention area, and make cure they are immediately stabilized with gra-
- Watering. Watering is needed once a week during the first 2 months, and then as needed during first growing season (April October), depending on rainfall.
 Remove and replace dead plants.

<u>Routine Maintenance Guidelines</u>.

Biorestention areas must be inspected to ensure that they operate in good working condition and in accordance with the approved design and specifications. Items in need of repair must be immediately addressed.

Excavatio	n (contin	ued)	
		If the excavation area has been used as a sediment trap, the bottom elevation of the proposed stone reservoir is lower than the bottom elevation of the existing trap.	
		Excavation bottom is scarified prior to placement of stone.	
	0	Subgrade surface is free of rocks, roots, and large voids. (voids may be refilled with base aggregate to create a level surface for the placement of aggregates and underdrain.)	
		No groundwater scepage or standing water is present. Any standing water is dewatered through an acceptable dewatering device and the design consultant has been notified.	
0		Excavation of the bioretention area has achieved proper grades and the required geometry. The area has been excavated from the sides to avoid soil compaction. Constructed dimensions:	
		Sides of the excavation area are covered with geotextile; no tears or holes, or excessive wrinkles are present.	

Complete	Photo	Description	Date	
		Energy dissipaters and pretreatment practices (forebays, gravel diaphragms, etc.) are installed in accordance with the approved plan/design specifications.		
		All aggregates (stone, sand, etc., as required) conform to the approved plan/design specifications.		
		The impermeable liner (when required) is placed in accordance with manufacturer specifications and the approved plan.		
		Filter fabric is installed on the sides only per the approved plan/design specifications.		
п	0	#57 stone is placed to achieve the required storage depth per the approved plan/design specifications. Lepth of #57 stone:ft.		
0		Undertrain size and perforations conform to the approved plan design **periforations** (if **plination*)		
		Placement of underdrain(s), cleanouts/observation wells, and underdrain fittings are in accordance with the approved plan/design specifications.		
		Elevations of the underdrain(s) and outlet structure are in accordance with approved		
п	п	The filter layer (choker stone/pea gravel/sand) is installed per the approved plan/design specifications. Choker material: Depth of choker material: inches		

Routine Maintenance Tasks	Frequency	
Remove trash and debris	As needed	
Check and repair eroded areas	Annually	
Inspect for and remove excess sediment	Annually	
Mow grass filter strips and bioretention turf cover	At least four times per year	
Weed and rake mulch	Twice during the growing season	
Inspect plant composition for consistency with approved plans and correct any deficiencies	Annually	
Remulch to maintain a three inch layer	Annually	
Prune trees and shrubs	Annually	
Inspect for clogging or ponding water in the filter bed	Annually	
Remove invasive plants	As needed	
Replace dead or damaged plant material	As needed	
Repair broken pipes	As needed	
Remove sediment in pretreatment cells and inflows	Every 2-3 years	
Replace the mulch layer	Every 3 years	

Complete	Photo	Description	Date
		Soil media is certified by a supplier or contractor as conforming to the approved plan/design specifications.	
0		Filter media is placed in 12-inch lifts to the top elevation of the bioretention area in accordance with the approved plantdesign specifications. The filter media is raked as a level grade after final lift and the elevation has been verified after settlement. No machinery, whicles, or other heavy equipment have been permitted to travel across the filter media.	
	0	Filter media depth conforms to the approved plan'design specifications. Depth:ft.	
		Side slopes of the ponding area are laid back at the required slope (no steeper than	

Complete	Photo		Date
		Riser, overflow welr, or other outflow structure is set to the elevation in the approved plan/design specifications and functional. Mulch composition and depth conform to approved plan/design specifications.	
		Depth of mulch layer: inches	
	0	Ponding depth is in accordance with the approved plan/design specifications after plant and mulch placement. Depth of ponding area:inches (above mulch, 12" maximum)	
		Signs are installed per the approved plan.	
		Plant installation conforms to the approved plan/design specifications and all plants are healthy.	
		Final elevations and slopes within the bioretention area after plant and mulch installation match the approved plan elevations.	
	0	Provide a photo of the completed DMP after completion of construction.	

Comments	Date

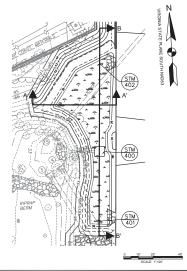
Construction Inspection Checklist: Bioretention

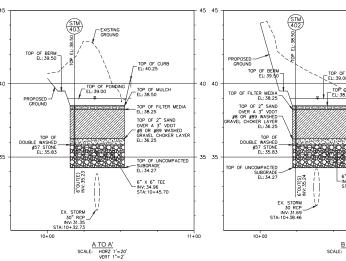
Comments (continued)					
all items checked above have been inspected by me (or by an individual under my responsible charge) and					

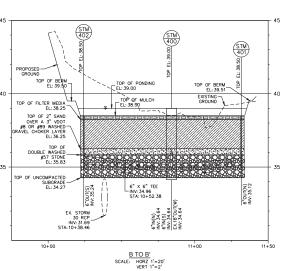
ing Professional's Li	cense Number (or Seal):	
Table	P-FII -05-11 Bioretention M	aterials Specifications
Table Material	P-FIL-05-11 Bioretention M Specification	aterials Specifications

Filter Media Composition (Appendix F)	Filter Media to contain: 80% - 90% sand 10% - 20% soil fines 3% - 5% organic matter	The volume of filter media based on 110% of the plan volume, to account for settling or compaction. See Appendix F.
Filter Media Testing	See Appendix F for criteria	The media should be certified by the supplier.
Mulch Layer	Use aged (at least 6 months), double- shredded hardwood bark mulch.	Lay a 2- to 3-inch layer on the surface of the filter bed.
Alternative Surface Cover	Use river stone or pea gravel, coir and jute matting, or turfgrass cover.	Lay a 2- to 3-inch layer to suppress weed growth.
Topsoil For Manage Grass Cover or other intensive vegetation management	Loamy sand or sandy loam texture, with less than 5% clay content; pH corrected to between 6 and 7; and an organic matter content of at least 2%.	3-inch surface depth. Must meet minimum K _{ort} requirements of underlying media.
Geotextile/Liner	Use a non-woven geotextile fabric with a flow rate of > 110 gal./min./sq. ft. (e.g., Geotex 351 or equivalent)	Apply only to the sides and directly above the underdrain. For hotspots and certain karst sites only, use the appropriate liner on the bottom.
Choking Layer	Lay 2- to 4-inch layer of sand over 3-i	nch layer of VDOT #8 or #89 washed gravel
Stone Underdrain and/or Storage	VDOT #57 stone	9 inches for the underdrain; Up to 12 inches for the stone storage layer, if needed;
Layer		Double washed and clean and free of all fines
Underdrains and Cleanouts	Use 6-inch rigid schedule 40 PVC pipe (or equivalent corrugated HDPE for micro-bioretention), with 3/8-inch perforations at 6 inches on center; position each underdrain on a 1% or 2% slope located nor more than 20 feet from the next pipe.	Lay the perforated pipe under the length of the bioretention cell, and install non- perforated pipe as needed to connect with the storm drain system. Install T's and Y's as needed, depending on the underdrain configuration. Extend cleanout pipes to the surface with vented caps at the T's and Y's.
Observation Wells	Use 4- to 6- inch rigid schedule 40 PVC pipe (or equivalent corrugated HDPE for micro-bioretention), with 3/8-inch perforations at 6 inches on center within the gravel layer	Use a closed wall pipe above the gravel layer. Extend observation well pipes to the surface with vented caps
Plant Materials	See Section 5.2 and Table P-FIL-05-7	Establish plant materials as specified in the landscaping plan and the recommended plant list.

Facility	Design Level	Total Drainage Area	Total Drainage Area	Surface Area	Ponding depth	Filter depth	Gravel depth	Ponding Volume (1.00 void)	Soil Storage Volume (0.25 void)	Gravel Storage Volume (0.4 vold)	Available Storage
		(SF)	(acre)	(SF)	(in)	(in)	in	(CF)	(CF)	(CF)	(CF)
Binnetontino	-	20052	0.00	2000	- c	24	12	1004	1004	002	2011







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CITY OF ALEXANDRIA
DASH FACILITY
3000 BUSINESS CENTER DRIVE
ALEXANDRIA, VIRGINIA 22314

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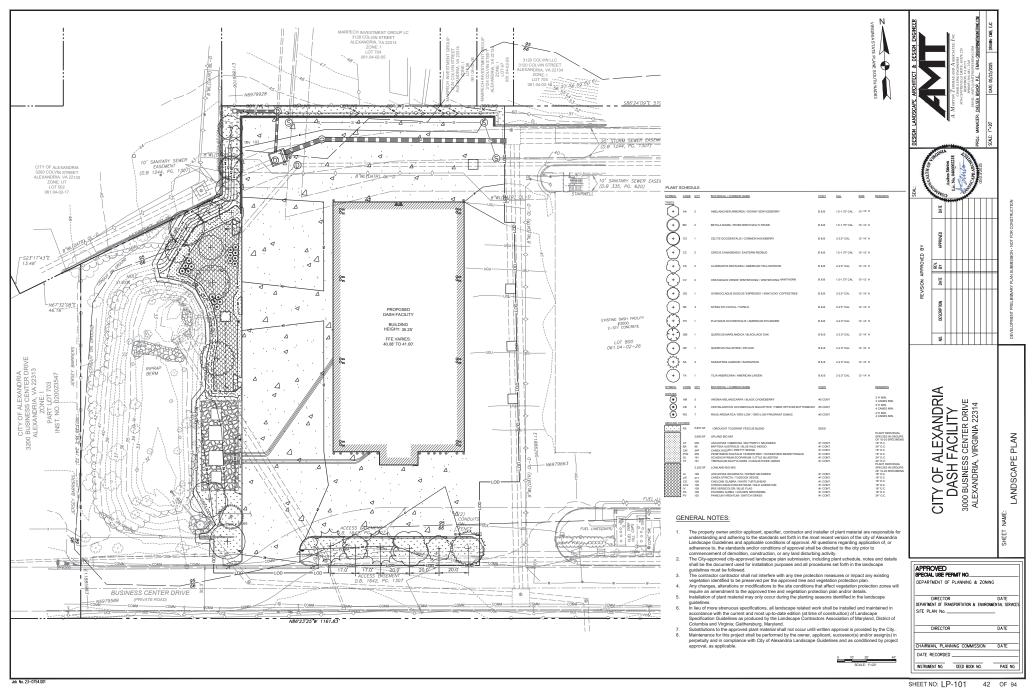
APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN No. _ DIRECTOR CHAIRMAN, PLANNING COMMISSION DATE DATE RECORDED INSTRUMENT NO. DEED BOOK NO.

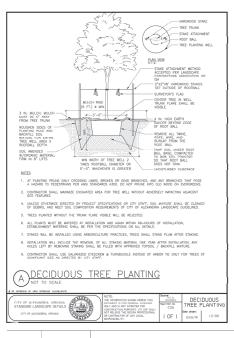
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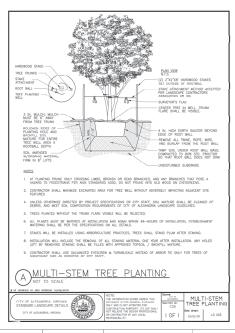
SHEET NO: C-706

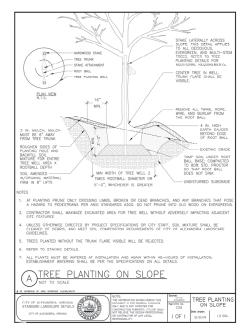
STORMWATER MANAGEMENT DETAILS

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	CITY OF ALEXANDRIA DASH FACILITY 3000 BUSINESS CENTER DRIVE ALEXANDRIA, VIRGINIA 22314 SHEET NAME: SOIL BORINGS
	APPROVED SPECIAL USE PERMIT NO DEPARTMENT OF PLANNING & ZONING DRECTOR DRECTOR DRECTOR DATE SCHAMBACK OF IMASSPORTATION & ENVIRONMENTAL SERVICES
SOIL BORING LOGS TO BE PROVIDED WITH FINAL SITE PLAN	DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION DATE DATE RECORDED INSTRUMENT NO. DEED BOOK NO. PAUC NO. SHEET NO: C-901 41 OF 94









	PLAN KEY	QUANTITY	GENUS	SPECIES		COMMON NAME	CALIPER/HEIGHT		CCA PER TREE (SF)	TOTAL CROWN COVER (SF)	LOCAL/ REGIONAL (#)	EASTERN U.S. (#)	TOTAL
	AA	2	Amelanchier	arborea		Serviceberry	1.5"-1.75" cal./6-10 ft. ht.	B&B, multistem, branching	500	1,000	2		2
	BN	2	Betula	nigra		River Birch	2"-3" cal./12-14 ft. ht.	B&B multistem; full branching	750	1,500	2		2
	cc	2	Cersis	canadensis		Eastern Redbud	1.5"-1.75" cal./6-10 ft. ht.	B&B, multistem, branching	500	1,000	2		2
	co	1	Celtis	occidentalis		Hackberry	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	1,250	1		1
	CK	2	Cladrastis	kentukea		Yellowwood	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	2,500		2	2
	CV	2	Crataegus	viridis	Winter King	Green Hawthorn	1.5"-1.75"cal/6-10 ft. ht.	B&B symmetrical, full branching	500	1,000	2		2
STANDARD TREES	GD	1	Gymnocladus	dioicus	Espresso	Kentucky Coffeetree	2"-3" cal./12-14 ft. ht.	B&B single leader	1,250	1,250	1		1
	NS	2	Nyssa	sylvatica		Blackgum	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	750	1,500	2		2
	PO	1	Platanus	occidentalis		Sycamore	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	1,250	1		1
	QM	1	Quercus	marilandica		Blackjack Oak	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	750	750	1		1
	QP	1	Quercus	palustris		Pin Oak	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	1,250	1		1
	SA	2	Sassafras	albidum		Sassafras	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	2,500	2		2
	TA	1	Tilia	americana		Linden	2"-3" cal./12-14 ft. ht.	B&B symmetrical, single leader	1,250	1,250	1		1
	TOTALS	20							STANDARD TREE CCA:	17.000	18	2	20
	IUIALS	20							STANDARD TREE CCA:	17,000	90.0%	10.0%	100.0%

BIODIVERSITY TABULATIONS								
(REES (URBAN AND STANDARD)								
TOTAL NUMBER C	F TREES PROPO	OSED: 20						
GENUS	QTY.	PERCENT OF TOTAL	MAXIMUM PERCENT	SPECIES	QTY.	PERCENT OF TOTAL	MAXIMUM PERCENT	
GENUS	QIT.	PROPOSED	ALLOWED	SPECIES	QIY.	PROPOSED	ALLOWED	
Amelanchier	2	10.0%	33%	arborea	2	10.0%	10%	
Betula	2	10.0%	33%	nigra	2	10.0%	10%	
Celtis	1	5.0%	33%	occidentalis	1	5.0%	10%	
Cercis	2	10.0%	33%	canadensis	2	10.0%	10%	
Cladrastis	2	10.0%	33%	kentukea	2	10.0%	10%	
Crataegus	2	10.0%	33%	viridis	2	10.0%	10%	
Gymnocladus	1	5.0%	33%	dioicus	1	5.0%	10%	
Nyssa	2	10.0%	33%	sylvatica	2	10.0%	10%	
Quercus	2	10.0%	33%	marilandica	1	5.0%	10%	
			33%	palustris	1	5.0%	10%	
Platanus	1	5.0%	33%	occidentalis	1	5.0%	10%	
Sassafras	2	10.0%	33%	albidum	2	10.0%	10%	
Tilia	1	5.0%	33%	americana	1	5.0%	10%	

TOTAL SITE AREA (SF)	65,832
25% CROWN COVER REQUIRED (SF)	16,458
EXISTING CROWN COVER (SF)	25,688
REMOVED CROWN COVER (SF)	11,750
PRESERVED CROWN COVER (SF)	
Crown Cover from Preserved Trees	13,938
Crown Cover from Preserved Shrubs	0
PROPOSED CROWN COVER (SF)	
Crown Cover from Proposed Trees	17,000
Crown Cover from Proposed Shrubs	
TOTAL CROWN COVER PROVIDED (%)	25.8%
TOTAL CROWN COVER PROVIDED (SF)	17.000

CROWN COVER TABULATIONS

		NATIVE PLANT TABULAT	TIONS			
			BEGINNING JA	NUARY 2, 2	024	
PLANT TYPE	QUANTITY	NATIVE TYPE	REQUIRED	PROVIDED		
PLANT TIPE		MATIVETIFE	%	QTY.	%	
Standard Trees	20	Regional/Local	40%	18	90.0%	
Standard frees		Total Natives	80%	20	100.0%	

NE I 9 | | LANDSCAPE NOTES AND DETAILS CITY OF ALEXANDRIA
DASH FACILITY
3000 BUSINESS CENTER DRIVE
ALEXANDRIA, VIRGINIA 22314

APPROVED SPECIAL USE PERMIT NO	
DEPARTMENT OF PLANNING & ZO	NING
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Job No. 23-0754.001

SHEET NO: LP-201 43 OF 94

STRUCTURAL GENERAL NOTES BUILDING CODES: CAST IN PLACE CONCRETE: DES CODES AND STANDARDS ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
ACI 319 "BUILDING CODE REQUIREMENTS FOR RESPORCED CONCRETE.
ACI 319 "BUILDING CODE REQUIREMENTS FOR RESPORCED CONCRETE OF THE ACI 305 "RECOMMENDE PRACTICE FOR NOT VEHICHER CONCRETING"
ACI 305 "RECOMMENDE PRACTICE FOR COLD WEATHER CONCRETE OF THE ACI 305 "RECOMMENDE PRACTICE FOR COUNCRETE FOR WORK!"
ACI 319 "RECOMMENDE PRACTICE FOR CONCRETE FOR WORK!"
ACI 310 "THE TALLS AND DETAIL AND OF CONCRETE RESPORCEMENT!"
CRST MANULL OF STANDARD SPACTICE. COMPONENTS & CLADDING WIND PRESSURES IN ADDITION TO SELF WEIGHT, THE BUILDING IS DESIGNED FOR THE FOLLOWING FLOOR AND ROOF LIVE LOADS: ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5 PARAPE (PSF) (PSF) (PSF) (PSF) (PSF) (PSF) LIVE LOAD (PSF) SUPERIMPOSED DEAD LOAD (PSF) EQUIPMENT PLATFORM LOW ROOF: CANOPY ROOF: REINFORCING MATERIALS: <=10 +16 / -33 | +16 / -43 | +16 / -59 | +21 / -23 | +21 / -28 | +64 / -64 STAIRS: SLAB ON GRADE: PLAIN STEEL REINFORCEMENT: ASTM A 815, GRADE 80, DEFORMED PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185 +16/-26 +16/-35 +16/-42 +18/-20 +28/-23 +64/-64 +16/-25 +16/-32 +16/-35 +17/-19 +17/-20 +64/-64 MARK NOTE: DESIGN LIVE LOADS SHOWN ABOVE HAVE BEEN REDUCED FOR FLOOR MEMBERS SUPPORTING 400 SQUARE FEET OR MORE IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE. CONCRETE MATERIALS:

1. PORTLAND CEMENT:

2. FLY ASH:

3. GROUND GRANULATED BLAST FURNACE SLAG:

4. NORMAL WEIGHT AGGREGATES: >500 +16/-21 +16/-28 +16/-28 +16/-18 +16/-18 +64/-64 NUMMAL WEIGHT AGGREGATES SEES AND ASTIM C 989, GRADE 120
ASTIM C 989 SNOW LOAD DESIGN ORTERIA LOAD DESIGN CRITERIA: GROUND SNOW LOAD (PIg): FLAT ROOF SNOW LOAD (PIf): EXPOSURE FACTOR (CIe): IMPORTANCE FACTOR (IIs): THERMAL FACTOR (CIt): CRS CRS DAL WIND LOAD DESIGN CRITERIA:

1. ULTIMATE DESIGN WIND SPEED (Wult):

2. RISK CATEGORY:

3. WIND EXPOSURE:

4. INTERNAL PRESSURE COEFFICIENT (GC COEFFICIENT)

5. COMPONENTS AND CLADDING: NOTES: 1. EDGE DISTANCE 'a' = 9'-0" 113 MPH 2. BUILDING HEIGHT 'h' = 21'-0" (TO LOW ROOF). JRE COEFFICIENT (GC/bi): COMPONENT AND CLADDING LOADS ABOVE HAVE BEEN
 CALCULATED UTILIZING THE FULL HEIGHT OF THE BUILDING UP TO
 THE EQUIPMENT PLATFORM ROOF. REFER TO CHART BELOW SEISMIC LOAD DESIGN CRITERIA: CONCRETE MIXTURES: RETE MINTURES:
FLY ASH, POZZOLAM, GROLIND GRANULATED BLAST FURNACE SLAG, AND SILICA FUME MAY
BE USED AS NEEDED TO REDUCE THE TOTAL AMOUNT OF PORTLAND CEMENT WHICH
WOULD OTHERWISE BE USED BY NOT MORE THAN 40 PERCENT.
MAXIMAM SUBSTITUTION OF FLY ASH SHALL BE 20 PERCENT.
MAXIMAM SUBSTITUTION OF FLY ASH SHALL BE 20 PERCENT. RISK CATEGORY: IMPORTANCE FACTOR (lie): MAPPED SPECTRAL RESPONSE ACCELERATORS: MAPPLD SPECTIAL RESPONSE ACCELERATORS:
a. Sa :
Soil STE CLASS:
DESIGN SPECTRAL RESPONSE ACCELERATORS:
a. SDS =
b. SD1 =
SEISMIC DESIGN CATEGORY:
RESPONSE MODIFICATION FACTOR (R): NEGATIVE VALUE DENOTES PRESSURE ACTING AWAY FROM THE SURFACE. F. PROPORTION NORMAL WEIGHT CONCRETE MIXES AS FOLLOWS: NOMINAL (UNFACTORED) PRESSURES MAY BE OBTAINED BY MULTIPLYING THE VALUES IN THE CHART BY 0.60. 28 DAY STRENGTH (fc) WATER-CEMENTIOUS AIR CONTENT LOCATION LIMIT 4500 PSI FOUNDATIONS OVERSTRENGTH FACTOR (Ω₀): DEFLECTION COEFFICIENT (Cd) 0.50 4" ± 1" 4.0% ± 1.0% COLUMN ENCASEMENT 4500 PSI 0.50 4" ± 1" 4.0% ± 1.0% SLABS ON CRADE 5000 PSI 0.40 4" + 1" 4.095 ± 1.095 CANTILEVER COLUMN SYSTEMS 0.071 * WEIGHT (KIPS) 0.40 THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH WILL EXCEED THE DESIGN LIVE LOADINGS NOTED. ALL CONCRETE MIX DESIGNS, INCLUDING CEMENT CONTENT, WATER CEMENT RATIO, FINE AND COARSE AGGREGATE CONTENT AND ALL ADMIXTURES, SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO PLACING FIRST CONCRETE. THE STABILITY OF THE STRUCTURE IS DEPENDENT UPON THE DIAPHRAGM ACTION OF THE FLOORS AND ROOF. THE CONTRACTOR IS COURT ETELY RESPONSIBLE FOR THE METHOD FLOORS AND ROOF. THE CONTRACTOR IS COURT ETELY RESPONSIBLE FOR THE METHOD FLOOR OF THE CONTRACT OF THE PROPERTY OF THE H. REINFORCING STEEL SHALL BE PLAIN, NON-EPOXY-COATED, UNGALVANIZED. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY THE TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE PLACING OF ANY CONCRETE. THE CONCRETE STRUCTURE SHALL NOT SUPPORT THE DESIGNALES LOUP OR A BANKARD CIPE. 20 DAYS AND ALL SHORNERS AND RESIDENCE REQUIRED TO SUPPORT THE CONCRETE STRUCTURE. 20 DAYS AND ALL SHORNERS AND RESIDENCE AND SEAL OF A REDISTRETED ENGINEER IN THE STATE OF VIRGINAL SHALL BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL RIDICATE THE TYPE, EXTEM, SUE, AND LOCATION OF ALL SHORNERS AND RESIDENCE AND EACH SHORNERS AND SHALL SHORNERS AND RESIDENCE AND RESIDENC THE FRAMING HAS BEEN DESIGNED FOR THE WEIGHT OF EQUIPMENT SHOWN ON THE STRUCTURAL ABBREVIATIONS STRUCTURAL DRAWINGS. IF ACTUAL WEIGHT OF EQUIPMENT EXCEEDS THAT SHOWN OR IF EQUIPMENT NOT SHOWN EXCEEDS 500 POUNDS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENSINEER. AMERICAN CONCRETE INSTITUTE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AMERICAN INSTITUTE BUSITUTE
AMERICAN WELDING SOCIETY
AMERICAN WELDING SOCIETY
ARCHITECTURAL
ALCOMABLE STRESS DESIGN ALL STAIRS, RAILINGS, STUD WALLS, GLASS STORE FRONT, AND EXTERIOR CEILINGS AND SOFFITS SHALL BE DESIGNED FOR THE LOADS INDICATED OR SPECIFIED BY THE BUILDING CODE. UM COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED O.C. ON CENTER IUM COVER FOR ALL REINFORCING SHALL BE AS FOUNDATIONS 3 INCHES (TOP) COLUMNS AND BEAMS 1 /2 INCHES (TOP) COLUMNS AND BEAMS 1 /2 INCHES FRAMED SLABS 34 INCHES WALLS 344 INCHES WALLS BELOW GRADE 2 INCHES FOUNDATIONS: REFER TO "CAST IN PLACE CONCRETE" FOR APPLICABLE CODES AND STANDARDS. CJ CL CLR CMU CONC CONST JT CONT CONTROL JOINT
CENTERLINE
CLEAR
CONCRETE MASONRY UNIT
CONCRETE
CONSTRUCTION JOINT
CONTINUOUS POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH REFER TO PROJECT GEOTECHNICAL REPORT BY WHITMAN, REQUARDT, AND ASSOCIATES LLP AND DATED SEPTEMBER 2022 FOR SITE PREPARATION AND RECOMMENDATIONS.

1. MINIMUM DEPTH TO BOTTOM OF EXTERIOR FOOTINGS FOR FROST PROTECTION = 24 INCHES BELOW GRADE. NET ALLOWABLE BEARING CAPACITY = 4000 PSF (ASSUMED) STEEL DECK INSTITUTE ASSUMED ALLOWABLE BEARING PRESSURE IS BASED ON (FUTURE) RAMMED AGGREGATE PIER DESIGN BY THIS VALUE SHALL BE VERRIFED IN FIELD BY A REGISTERED GEOTECHNICAL ENGINEER AND APPROVED PRICH TO PLACING FOUNDATIONS. HOLD THE ACTUAL SOL BEARING PRESSURE BE LESS THAN 4000 PSF, OR THE SETTLEMENT PARAMETERS ARE NOT MET, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY DETAIL DEVELOPMENT LENGTH DIAMETER DRAWING DOWEL STEEL JOIST INSTITUTE SLAB ON GRADE SPECIFICATION DET DL DIA CODES AND STANDARDS:

1. ACI 530/ASCE 5/TMS 4021 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

2. ACI 530/ASCE 6/TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES" ALL EXCAVATION AND BACKFILLING OPERATIONS WITHIN THE BUILDING FOOTPRINT, INCLUDING ALL COMPACTION TESTS AND INSPECTIONS, SHALL BE DONE UNDER THE DIRECTION AND SUPERVISION OF A REGISTERED GEOTECHNICAL ENGINEER. ACL315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT". EL ELEC EMBED TOP OF CONCRETE TOP OF FOOTING I TIALS:
MATERIAL CERTIFICATES FOR MASONRY UNITS, GROUT MIXES, MORTAR MIXES, REINFORCEMENT, AND
ANCHORS/TIESSHOP DRAWINGS INCLUDING DETAIL BENDING AND PLACEMENT OF UNIT MASONRY
REINFORCING. ALL EXISTING SOIL CONTAINING GRAVEL, CONSTRUCTION OR DEMOLITION DEBRIS, ORGANIC SUBSTANCES, OR OTHER FOREIGN OBJECTS SHALL BE REMOVED FROM THE REGION WITHIN THE FOOTPRINT OF THE STRUCTURE. NOTES ADDITIONAL SAMPLE SUBMITTALS MAY BE REQUIRED BY ARCHITECT/OWNER. REFER TO ARCHITECTURAL DRAWINGS. LINO LINESS NOTED OTHERWISE INCH ERIALS:

CONCRETE MASONRY ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT
20 DAYS (m) OF 2000 PSM.

CONCRETE MASONRY ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT
20 DAYS (m) OF 2000 PSM.

CONCRETE MASONRY UNITS: ASTM C 90 WITH
MUNITED TRACE OWNERSSIVE STRENGTH OF 2000 PSM.

A GRADE N.H. BLOCK BELOW GRADE AND WHERE BLOCK IS SUBJECTED TO MOSTOR

EPENETRATION, OTHERWISE PSM. DAYS (M) OF 10 MIN AT CONTRACTOR'S OPTION.

MASONRY MONTARE, ASTML C 200

MASONRY MONTARE, ASTML C 200

MASONRY GROUT ASTML C 478

MANIMUM COMPRESSIVE STRENGTH OF 3000 PSM.

MANIMUM COMPRESSIVE STRENGTH OF 3000 PSM. VERT VIF VERTICAL VERIFY IN FIELD JST JT GENERAL WIDE FLANGE WELDED WIRE FABRIC ≗≅ KIP KSF KILOPOUNDS KILOPOUNDS PER SQUARE FOOT FACILITY EXPAN
ALEXANDRIV LINTEL OR ANGLE
POUNDS
LAP SPLICE LENGTH
LONG LEG HORIZONTAL
LONG LEG VERTICAL
LOAD AND RESISTANCE FACTOR DESIGN REINFORCEMENT:

. UNCOATED STEEL REINFORCING BARS: ASTM A 615, GRADE 60
HORIZONTAL JOINT REINFORCEMENT: ASTM A 655, EITHER LADDER OR TRUSS TYPE WITH
MINIMILM 316 BACH DIAMETER VEHER TIES: MLL (AQU'ANIZED CAPBON STEEL WIRE
(ASTM A 82, MINIMIUM 316 INCH DIAMETER WITH ASTM A 641, CLASS I COATING) NOTALATON:

UNESS OTHERWISE NOICATED, ALL BOND BEAMS SHALL BE REINFORCED WITH 248 BARS
RUNNING CONTINUOUS AND LAP SPLEED ACCORDING TO DETAL 5 ON 5-90. PROVIDE
CONNER BARS AT CORNIES BON DITERSECTIONS.

VERTICAL WALL REINFORCING SHALL BE CUT MOIL UP, SPLUED PER DETALS FOR MAXIMAM
2-90 GROUT LITTLE. MASONING FORES CONTRAINMY CRITICAL REINFORCING SHALL BE TOP OF SLAB ON GRADE ELEV. 0'-0" 1 TYPICAL DETAIL SCALE: 3/4"=1'-0" BUS OF 5 OF GROUT LETS. MASONRY CORES CONTAINING VEHICLE, TERM THAT STATE, LET GROUTED SALID, SO MALE PROVIDE DUCK OF BLOCK PROVIDED SALID PROVIDED TO ME BOOK PALLED SALID WITH GROUT DRECTLY THE LOW ALL CHANGES IN WHAT, THROWESS. THE CONTRACTOR SALID PROVIDED AS 20 CH SOFT JOINT BETWEEN TOP OF NON-BEARING MASONEY WALLS AND THE LIDERISES OF THE STRUCTURAL FLOOR OR ROOF FRAMING ABOVE. TO RESIST THE TOP OF SALID PROVIDED AS A STATE OF THE SALID PROVIDED AS THE SALID P PLAN AND SECTION TITLE DASH E STR DETAIL NUMBER ON NOTE CONTRACTOR IS RESPONSIBLE FOR BRACING AND SHORING OF ALL MASONRY WALLS AS REQUIRED UNTIL ROOF AND FLOOR SYSTEMS HAVE BEEN COMPLETELY INSTALLED AND ALL MASONRY MATERIALS HAVE ACHEVED DESIGN STRENGTH. ELEVATION SECTION FIELD WELD INSPECTIONS BY INDEPENDENT INSPECTION AGENCY:

1. ALL MASONY SHALL BE FIELD DISSECTED IN ACCORDANCE WITH BIOLENEL 1 SPECIAL
WESTIGN AND ASSESSED AS DETAIL SIM SHEET S-001 TYP WELD SYMBOL PARTIAL PLAN CALLOUT

STRUCTURAL GENERAL NOTES DES STRUCTURAL AND MISCELLANEOUS STEEL: CODES AND STANDARDS.

1. AMS: STEEL CONSTRUCTION MANUAL*, 14TH EDITION.

2. AMS: 303 "CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES*

3. AMS: 304 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

5. AMS: 11 "STRUCTURAL WELDING CODE*

6. AMS: 11 "STRUCTURAL WELDING CODE*

6. AMS: 15 "STRUCTURAL WELDING CODE*

7. AMS: 11 "STRUCTURAL WELDING CODE*

7. AMS: 11 "STRUCTURAL WELDING CODE*

8. AMS: 11 "STRUCTURAL WELDING CODE*

8. AMS: 11 "STRUCTURAL WELDING CODE*

9. AMS: 11 "STRUCTURAL WELDING CODE*

1. AMS: 11 "STRUCTURA REFER TO "STRUCTURAL STEEL" SECTION FOR APPLICABLE CODES AND STANDARDS. IN ADDITION, COMPLY WITH THE FOLLOWING:

STELL DECK INSTITUTE "STANDARD SPECIFICATIONS FOR FLOOR AND ROOF DECK"

ANSINORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBLERS. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY UTILITIES, THE CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE SHOP DRAWNOS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUMMITTED BY THE CONTRACTOR CONCERN FOR REVIEW BY THE BENNIERE. IF THE CONTRACT STRUCTURAL CERTIFICATION AND BESIDES OF THE PROJECT. THE SHOP DRAWNS SHALL INJURIES ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTORS ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTORS ON REVIEW ALL SHOP DRAWNINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEDED THE CENTER OF THE CONTRACTORS ON THE CONTRACTORS ON THE CONTRACTOR OF THE CONTRACTOR ON THE CONTRACTOR OF THE CONTRACT SUBMITTALS:
1 SHOP DRAWINGS INDICATING LAYOUT, MATERIAL PROPERTIES OR LOAD TABLES, SUBMITTALS:

1. SHOP DRAWINGS INDICATING THE SIZES, EXTENT, AND LOCATION OF ALL STRUCTURAL AND
MISCELLANEOUS STEEL FRAMING INCLUDING ALL CONNECTIONS, FASTENERS, AND BEARINGS. ANCHORAGE DETAILS, PANS, AND DECK ACCESSORIES.
PRODUCT DATA AND STRUCTURAL LOAD TABLES OF MECHANICAL FASTENERS, IF APPLICABLE. MARK THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS. MATERIALS.
1. GOLVANUZED AND PRIME PAINTED STEEL SHEET: ASTM A 653, STRUCTURAL STEEL, GRADE 33, GOLZANG COATING.
2. REFER TO PLANS AND DETAILS FOR MINIMAM PROFILE GEPTHS, THICKNESS, AND SECTION PROPERTIES PER POOT WIDTH.
2. SPAN CONTINUOUS TREFE SHOWN OR MORE WEIGHTER POSSBILE. MATERIALS:
1. W-SHAPES:
2. CHANNELS, ANGLES, PLATES:
3. HOLLOW STRUCTURAL SECTIONS (HSS):
4. STEEL PIPE:
5. PRIMIER: ASTM A 992 ASTM A 36 ASTM A 500, GRADE "B" ASTM A 53, TYPE E OR S, GRADE B THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. ASIM A 53, TYPE E UNS, IGNUE B
FABRICATORS STANDARD LEAD AND
CHROMATE FREE KONASPHALTIC, RUST
INHIBITING, COMPLY WITH MPIBTP
ASTM C 1107 WITH MINIMUM COMPRESSIVE
RESISTANT GROUT STRENGTH OF 5000 PSI AT 28 DAYS THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS. INSTALLATION:

1. REFERENCE TO TYPICAL SETALS FOR REPORTED AND SIDE LAD CONNECTION REQUIREMENTS.

1. REFERENCE WASHERS SHALL BE USED ON ALL METAL SECK WINCH IS 27 CA. OF LESS IN TRACHESS.

2. ALL WELDS AND BURNA MERS SHALL BE CLEMED AND PAINTED WITH APPROVED PRIMER OR GALVANIZING REPAIR PAINT AS REQUIRED. NON-METALLIC, NON-SHRINKAGE GROUT SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. GALVANIZE: CRS CRS DAL HOT-DIP ZINC COATING, ASTM A 123 GALVANIZING REPAIR PAINT AS REQUIRED.
THE CONTRACTOR SHALL PROVIDE SUPPORT FOR METAL DECK EDGES AT OPENINGS GREATER
THAN 10 INCHES SQUARE. REFER TO TYPICAL DETAILS ON DRAWINGS FOR ADDITIONAL CONNECTIONS:
1. WELDED CONNECTIONS:
2. HIGH-STRENGTH BOLTS: ETWIX ELECTRODES
ASTM F 312A, 232, TYPE 1, HEAVY-MEX
STEEL STRUCTURAL BOLTS
STEEL STRUCTURAL BOLTS
STEEL ASTM A 100, ERADES 1015 THROUGH 1020.
ASTM A 100, ERADES 1015 THROUGH 1020.
ASTM A 100, ERADES 1015 THROUGH 1020.
ASTM F 154C, GRADE 5005/100, STRAGOLT, WITH DOUBLE
ASTM A 505 HEAVI-HEC CARBON STREEL MITS THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES NECESSARY TO PROPERLY INSTALL THE METAL DECK. SHEAR CONNECTORS: STEEL STAIRS: UNHEADED ANCHOR RODS: DESIGN OF STEEL STAIRS IS A DELEGATED DESIGN ITEMS AND SHALL BE PERFORMED BY GENRAL CONTRACTOR'S ENGINEER. HEADED ANCHOR BODS: REFER TO "STRUCTURAL STEEL" SECTION FOR APPLICABLE CODES AND STANDARDS.

1. REFER TO ARCHITECTURAL DRAWINGS FOR RISERS, TREADS, AND LANDING REQUIREMENTS. ALL STEEL COMECTION RESIDE SHALL BE COMMETED BY A DESIGN PROFESSIONAL HERD BY THE CONTRICTION AS STREY PIRE ADD REQUESTED BY THE CONTRICTION AS STREY PIRE ADD REQUESTED BY THE CONTRICT TO COMMENTS. PRIOR TO STREWSSION OF STEEL SHOP DRAWNIGS. THE STEEL FRANÇATOR SHALL SIGNAT SHAPE TO SHARL SHAPE ADD AND ASSESSED THE STREY THE PROPERTIES BY THE CONTRICTION SHAPE AND BEAM TO COLUMN CONNECTIONS, WHICH ARE PROPOSED TO BE USED ON THIS PROJECT, AFTER THESE TYPICAL CALCULATIONS AND CONNECTIONS AND ACCEPTED, THE FRANÇATOR SHALL PERFARE AND SHAPE THE SHIP DOWNWARD FOR THIS PROJECT, THESE TYPICAL CALCULATIONS ARE REQUIRED TO BE SEALED BY A REGISTED SHAPE AND SHAPE THE STREY DRAWNINGS FOR THIS PROJECT, THESE TYPICAL CALCULATIONS ARE REQUIRED TO BE SEALED BY A REGISTED SHAPE THE ADD ADDRESS AND ASSESSED THE SHAPE AND SHAPE AND ASSESSED THE SHAPE ASSESSED THE SHAPE AND ASSESSED THE SHAPE ASSESSED TTALS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER FOR ALL STEEL STAIRS. ALL SPECIAL INSPECTIONS SHOULD ABIDE BY IBC 2018 AND ALL SUBSEQUENT CODES TO ENSURE PROPER QUALITY CONTROL DURING CONSTRUCTION. BIG SECTION TWO 2 STATES.

BIG SECTION TWO 2 STATES.

BIG SECTION TO THE OWNERS AUTHORIZED AGENT OTHER THAN THE CONTRACTOR, SHALL BURKLOY ONLE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTION AND TESTS DURING CONSTRUCTION ON THE TYPES OF WOMER SECTIONS TO AND ENTITY THE APPROVIDE AGENCIES TO THE BUILDING OFFICIAL. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS OF THE BUILDING OFFICIAL. THAT ARE DESITIED IN ONE SECTION 100°. STRUCTURAL DEDECRMANCE DECLUREMENTS: TURIAL PERFORMANCE REQUIREMENTS:
ALL STEEL STAR FRAIMING SHALL BE DESIGNED BY THE CONTRACTOR TO SUPPORT ALL DEAD LOADS
PLUS A SIMMUM LIVE LOADING OF 100 PSF.
PLUS A SIMMUM LIVE LOADING OF 100 PSF.
WHERE STEEL FRAIMING BEARS ON MASONRY WALLS, PROVIDE STEEL BEARING PLATES AS
REQUIRED TO LIMIT THE BEARRHS STRESS TO A MAXIMUM OF 25 PERCENT OF THE SPECIFIED
COMPRESSIVES ETHERSHIP OF MASONITY. THE SHEAR CONNECTION CAPACITY FOR COMPOSITE STEEL BEAMS SHALL BE DETERMINED BY MULTIPLYING THE BARN REACTION OF WORLD IT FOR COMPOSITE STEEL BEAMS SHALL BE DETERMINED BY MULTIPLYING THE BARN REACTION OF WORLD WERE TO BE WITH STATE OF WORLD THE FARM FOOT, AND WHERE T'S THE SPAN IN FEET AS SHOWN IN THE TABLES "UNIFORM LOAD CONSTAITS FOR BEAMS" BY 1.75 OR ALL INTERIOR BEAMS AND 1.25 FOR EXTERIOR SPANDREL BEAMS. FOR ADDITIONAL INFORMATION REFER TO SPECIFICATIONS. INSTALLATION:

1. THE CONTRACTOR SHALL PROVIDE ALL STEEL HANGERS, CLIP ANGLES ETC., AS REQUIRED TO SUPPORT THE STAR FRAMING. DESIGN WITHOUT CONSTRUCTION REVIEW: IT IS AGREED THAT IF KCI TECHNOLOGIES PROFESSIONAL SERVICES DO NOT EXTEND TO OR NOLLIDE THE REVIEW OR SITE OBSERVATION OF THE CONTRACTOR'S WORK OR PERFORMANCE, THEN THE OWNER WILL DEFEND, NIDEMBRY AND HOLD HANKLESS KCI TECHNOLOGIES FROM JAVICAMOR OS BUT WHATSOEVER, NICLIDING BUT NOT LIMITED TO ALL PAYMENTS, EXPENSES OR COSTS INVOLVED, ARSING FROM OR ALLEGED TO MAKE ARISEN FROM THE CONTRACTOR'S PERFORMANCE OR THE FAULURE OF THE E. INSPECTIONS BY INDEPENDENT INSPECTION AGENCY:

1 BOLITED CONNECTIONS: RCSC *SPECIFICATION FOR STRUCTURAL ALL STEEL STAIR FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE GALVANIZED. OTHERWISE, STEEL MEMBERS FOR STEEL STAIRS SHALL BE UNGALVANIZED. MALESSED TO TRIVE ANGEN FROM THE CONTRACTOR'S PERFORMANCE OR THE PAULURE OF THE CONTRACTOR'S WORK TO CONFORM TO THE DESIGN NITENT AND THE CONTRACT DOCUMENTS. KCI TECHNOLOGIES AGREES TO BE RESPONSIBLE FOR ITS OWN OR ITS EMPLOYEES' NEGLIGENT ACTS, ERRORS CONTRACTOR OF THE PROPERTY OF COLD FORMED METAL FRAMING: CODES AND STANDARDS:

1. AISIS "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" INCLUDING THE "STANDARD FOR COLD FORMED STEEL FRAMING". OWNERSHIP OF DOCUMENTS: LILATION:
ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE OR SINGLE PLATE SHEAR
CONNECTIONS DESIGNED AND DETAILED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION.

a. MINIMUM EDGE DISTANCE: 1 1/2 NCHES
b. BOLT SPACING: 3 NCHES THE CONTRACTOR ACKNOWLEDGES THESE PLANS AND SPECIFICATIONS PREPARED BY KCI TECHNOLOGIES AS INSTRUMENTS OF PROFESSIONAL SERVICE. INVESTMELESS. THE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE. INVESTMENT SERVICE AND SPECIFICATIONS OF PROFESSIONAL SERVICE. INVESTMENT SERVICE AND SPECIFICATIONS OF PROFESSIONAL SERVICE AND SPECIFICATIONS OF THE PROFESSIONAL SERVICE AND SPECIFICATIONS WITHOUT THE QUIET AND INCOMPANY CO. TECHNOLOGIES ACARST ALL DAMAGES, CLAMS, AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY PREUSE OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION PROFESSIONAL SERVICE AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION PROFESSIONAL SERVICE AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATIONS WITHOUT THE WRITTEN ANT INFORMATION AND ACTION OF THE PLANS AND SEPECIFICATION WITHOUT THE WRITTEN ANT INFORMATION AND ACTION AND ACTI SUBMITIAS:

1. SIGNO PRAYMOS INDICATING THE SIZE LOCATION, AND CONNECTION DETAILS FOR ALL MEMBERS, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

2. CALCULATIONS FOR ALL COLD FORMED DEMBERS AND COMPONENTS INCLUDING MEMBER SIZE, GAUGE LOCATION, CONNECTION, AND LITERAL BRACING DETAILS, SIGNED AND SEALED BY A REGISTEROF PROFESSIONAL HORDIZER. BEAM CONNECTIONS SHALL USE NO LESS THAN TWO 3/4" DIAMETER ASTM A 325N OR A 490 HIGH STRENGTH BOLTS. BOLTED CONNECTIONS FOR MOMENT FRAMES, BRACED BRAMES, AND ANY OTHER LOCATIONS INDICATED SUCH ON PLAN WHALL BE SLIP-CRITICAL. ALL OTHER BOLTED CONNECTIONS SHALL BE PRE-TENSIONED. MATERIALS:

1. COLD FORMED METAL MEMBERS 16 GAUGE OR HEAVIER:
STRENGTH OF 50 KSL. STRENGTH OF 50 RS;

GALVANIZING OF ALL COLD FORMED MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM
A 525 WITH A MINIMUM G80 COATING. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED. STRUCTURAL PERFORMANCE REQUIREMENTS.

AL COLD FORMED METAL REMAN AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND
REFECTED BY THE OFFICE METAL TRANSPAR AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND
REFERT DO THE OFFICE METAL TO SUPPORT LOADS REJICATED BY THE OFFICE METAL
REFERT DO THE OFFICE METAL TO SUPPORT AND THE OFFICE METAL TO SUPPORT A THE CONTRACTOR SHALL NOT SPLICE OR CUT OPENINGS IN STEEL MEMBERS NOT SHOWN ON CONTRACT DRAWINGS WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER. ALL STRUCTURAL STEEL EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY, INCLUDING ALL BOLTS AND ACCESSIONES. BUT WITH THE EXCEPTION OF STEEL COLLINE BASE PLATES, STEEL AND EAST AND ALL BOLTS AND AND AND ALL ARGAS OF REPAIRED WITH AS TO ALL BOLTS AND ALL BOLTS. AND ALL BOLTS INSTALLATION:

1. WELDING OF COLD FORMED METAL MEMBERS SHALL BE COMPLETED IN ACCORDANCE WITH AWS D.1.1 AND AWS D.1.3.

2. ALL COLD FORMED METAL MEMBERS SHALL BE SHEARED OR SAW CUT. CUTTING OF MEMBERS AND AUTOMATION OF MEMBERS SHALL BE SHEARED OR SAW CUT. CUTTING OF MEMBERS SHALL BE SHEARED OR SAW CUT. WITH A TORCH IS NOT PERMITTED.
SPLICES IN COLD FORMED METAL MEMBERS ARE NOT PERMITTED UNLESS DETAILED ON THE CONTRACT DRAWINGS.
APPLY TWO COATS OF ZINC RICH PAINT AT ALL CUT ENDS AND WELDS. NOTE S FACILITY EXPANSION

F ALEXANDRIA

Aexandria Virginia 20214 GENERAL STRUCTURAL BUS | DASH E SHEET S-002

DES FREQUENCY OF INSPECTIONS REFERENCE CRITERIA FREQUENCY OF INSPECTIONS REFERENCE CRITERIA TASK, VERIFICATION AND INSPECTION TASK REF. STD. PERIODIC REF. STD. IBC REF. 1705.2.2 STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL MATERIAL VERIFICATION OF COLD FORMED STEEL MATERIAL DENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARD SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFIED TEST REPORTS. INSPECTION OF WELDING AND SCREWED CONNECTIONS MARK AISI S200-07 AISI S211-07 A. COLD-FORMED METAL STUD WALLS B. REINFORCING STEEL: R. RERFORCING STEEL.
 11 y REPRACTION OF WELDABLITY OF REINFORCING STEEL OTHER THAN ASTIM A 706
 22 REINFORCING STEER RESTRING FEUERAL AND AVAIL FORCES IN NITEMEDIATE AND SPECIAL MOMENT
 3) SHEAR REINFORCEMENT
 4) OTHER REINFORCEMENT CRS CRS DAL

	CONTINUOUS	PERIODIC	REF. STD.	IBC REF.
STRUCTURAL STEEL			AISC 360	1705.6
. INSPECTION TASKS PRIOR TO WELDING	<u> </u>		AISC 360: N5.4	
A. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	×	-	-	-
B. MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	x	-	-	-
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	-	×	-	-
D. WELDER IDENTIFICATION SYSTEM.		X	-	-
E. FIT-UP OF GROOVE WELDS (INCLIDING JOINT GEOMETRY) - JOINT PREPARATION. - JOINT JOINT SETER SUPPARAES - TACKING (TACK WELD DUILITY AND LOCATION) - BACKING TYPE AND FIT (FA PHE ZOBLE).	**	x	-	-
F. CONFIGURATION AND FINISH OF ACCESS HOLES.		X	-	-
G. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLESS (CONDITION OF STEEL SURFACE) - TACKING (TACK WELD QUALITY AND LOCATION)		×	-	-
INSPECTION TASK DURING WELDING			AISC 360: N5.4	
A. USE OF QUALIFIED WELDERS.		X	-	-
B. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE		x	-	-
C. NO WELDING OVER CRACKED TACK WELDS		X	-	-
D. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE		х	-	
E. WAS PSCLOWED - SETTINGS ON WELDING EQUIPMENT - TRANCE SPEED - SELECTED WELDING MATERIALS - SHELDING GAST TYPE 1-FOUR WATE - SHELDING GAST TYPE 1-FOUR WATE - INTERPASS TEMPERATURE MANTANED (MIN / MAX) - PROCEPT GOODING (F) & M. CON)		x	-	-
F. WELDING TECHNIQUES INTERPASS AND FINAL CLEANINS EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS		×	-	-
G. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	-	-	-
INSPECTION TASKS AFTER WELDING			AISC 360: N5.4	
A. WELDS CLEANED	-	X	-	-
B. SIZE, LENGTH AND LOCATIONS OF WELDS	X	-	-	-
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA -CRACK PROPINITION - VIRED / BASE-METAL FUSION - CRATER CROSS SECTION - VIRED PROPILES - VIVELD SZE - UNDERGUT - PORGISTY	×	-	-	-
D. ARC STRIKES	X	-	-	-
E. K-AREA - WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES (75 mm) OF THE WELD	х	-	-	-
F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	-	-	-
G. REPAIR ACTIVITIES	-	-	-	-
H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	-	-	-
L NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT EOR APPROVAL	-	X	-	-
INSPECTION TASKS PRIOR TO BOLTING			AISC 360: N5.6	
A. MANUFACTURE'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	×		-	-
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	-	х	-	-
C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	-	x	-	-
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		×	_	-
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	-	×	-	-
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	×	-	-	-
G. PROPER STORAGE PROVIDE FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		х	-	-
INSPECTION TASKS DURING BOLTING			AISC 360: N5.6	
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE	-	x	-	-
PRETENSIONING OPERATION	-		-	-
C. FASTENER COMPONENT NOT TURNED BY WRENCH PREVENTED FROM ROTATING D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST	-	x	-	-
RIGID POINT TOWARD THE FREE EDGES. INSPECTION TASKS AFTER BOLTING: DOCUMENT ACCEPTANCE OR REJECTION	- x		AISC 360: N5.6	-
OF BOLTED CONNECTIONS INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO	^	-		
CONCRETE PLACEMENT.			AISC 360: N6	
A. PLACEMENT AND INSTALLATION OF STEEL DECK	Х	-	-	-
B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	I X		_	1

TASK, VERIFICATION AND INSPECTION TASK	FREQUENCY OF	INSPECTIONS	REFERENCE CRITERIA		
TASK, VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REF. STD.	IBC REF.	
CONCRETE CONSTRUCTION			ACI 318	1705.3	
I INSPECTION OF REINFORCING STEEL AND PLACEMENT	-	х	ACI 318: 2.4, 7.1-7.7	1908.4	
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.22, ITEM 2 (IBC)	-	×	AWS D1.4 ACI 318: 3.5.2	-	
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	×	ACI 318: 17.8.2	-	
INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE.		Х	ACI 318: 17.8.2.4, 17.8.2	-	
i. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1	
B. AT THIS TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF CONCRETE	х	-	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1910.10	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATIONS TECHNIQUES	х		ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8	
B. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	х	ACI 318: 5.11, 5.13	1910.9	

	FREQUENCY	OF INSPECTIONS		REFERENCE CRITERIA	į.
TASK, VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	IBC REF.	TMS 402 ACI 530 ASCE 5	TMS 602 ACI 530.1 ASCE 6
MASONRY CONSTRUCTION LEVEL B			1705.4		
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	×	-	-	ART. 1.5
 VERIFICATION OF fm AND flat PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE 	-	×	-	-	ART. 1.4 B
 VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT 	х	-	-	-	ART. 1.5 B.1, B.3
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR.		X	-		ART. 2.1, 2.6 A
B. CONSTRUCTION OF MORTAR JOINTS	-	X	-	-	ART. 3.3 B
C. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X (FIRST 5000 SQ. FT.)	X (AFTER FIRST 5000 SQ. FT.)	-	-	ART. 2.1 C
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE					
A. GROUT SPACE IS CLEAN	-	X	-	-	ART. 3.2 D, 3.2 F
B. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS	-	X	-	SEC. 1.16	ART 2.4, 3.4
C. PLACEMENT OF REINFORCEMENT AND CONNECTORS		X	-	SEC. 1.16	ART. 3.4, 3.2 E, 3.6 A
D. PROPORTIONS OF SITE-PREPARED GROUT	-	X	-		ART. 2.6 B, 2.4 G.1.b
E. CONSTRUCTION OF MORTAR JOINTS	-	X	-	-	ART. 3.3 B
6. DURING CONSTRUCTION THE FOLLOWING SHALL BE VERIFIED:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	X	-	-	ART. 3.3 F
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHIORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	-	х	-	SEC. 1.16.4.3, 1.17.1	
C. WELDING OF REINFORCING BARS	х	-	-	SEC. 2.1.8.7.2, 3.3.3.4(c), 8.3.3.4(b)	-
D. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		х	SEC. 2104.3, 2104.4		ART. 1.8 C, 1.8 D
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X (FIRST 5000 SQ. FT.)	X (AFTER FIRST 5000 SQ. FT.)	-	-	ART. 3.3 B.8
 OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS ANDIOR PRISMS 	-	x	SEC. 2105.2.2, 2105.3	-	ART 1.4 B.2a.3, 1.4 B.2 b.3, 1.4 B.2 c.3, 1.4 B.3, 1.4 B.4
8. VERTICAL MASONRY FOUNDATION ELEMENTS		×	1705.4		

TASK, VERIFICATION AND INSPECTION TASK	FREQUENCY O	F INSPECTIONS	REFERENCE CRITERIA		
TASK, VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REF. STD.	IBC REF.	
SOILS				1705.6	
CONTROLLED FILL PLACED UNDER SITE PERMIT	-	-	-		
2. CONTROLLED FILL PLACED UNDER THIS BUILDING PERMIT	X	-	-		
 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY 	-	x	-		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	x	-		
5. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	-		
 VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL 	x	-	-	-	
 PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY 		×	-		
8. VERIFY INSTALLATION OF DRAIN TILE (GRAVITY/MECHANICAL)	-	X	-		

SPECIAL INSPECTIONS NOTES:

B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.
 C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.

- THE GENERAL CONTRACTOR WILL ENGAGE (SEE CONTRACT REQUIREMENTS) THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON WORK MOICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS IN ACCORDINGE WITH THE PROVISIONS OF CHAPTER 1 OF THE STREAMTONAL BUILDING CODE.
- SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON A CONTINUOUS OR PERIODIC FREQUENCY AS NOTED IN THE SCHEDULE.
- 3. SCHEDULING FOR SPECIAL INSPECTIONS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- $4. \ \ \mathsf{REFER} \ \mathsf{TO} \ \mathsf{THE} \ \mathsf{GENERAL} \ \mathsf{NOTES} \ \mathsf{AND} \ \mathsf{SPECIFICATIONS} \ \mathsf{FOR} \ \mathsf{ADDITIONAL} \ \mathsf{INSPECTION} \ \mathsf{AND} \ \mathsf{TESTING} \ \mathsf{REQUIREMENTS}.$
- 5. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, CONTACT KCI TECHNOLOGIES PRIOR TO COMPLETION OF THAT PHASE OF THE WORK.
- 6. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS TO THE CONTRACTOR. ARCHITECT, OWNER AND KCI TECHNOLOGIES, REPORTS SHALL DOCUMENT REQUIRED INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES. REPORTS SHALL BE PROVIDED AT INTERVALS CONVEYING THE PROGRESS OF CONSTRUCTION.

DASH BUS FACILITY EXPANSION CITY OF ALEXANDRIA 301 King Street, Alexandria, Virginia 22314 SPECIAL INSPECTIONS SHEET

S-003

80

CONCRETE FOOTING SCHEDULE BOTTOM REINFORCING TOP REINFORCING DEPTH MARK SIZE REMARKS LONG BARS SHORT BARS LONG BARS SHORT BARS F60 6'-0" x 6'-0" N/A (6)-#6 (6)-#6 N/A F80 8'-0" x 8'-0" N/A (9)-#6 (9)-#6 F100 10'-0" x 10'-0" (10)-#7 N/A N/A (10)-#7 F130 (12)-#9 13'-0" x 13'-0" (12)-#9 (12)-#9 (12)-#9 WF30 3'-0" WIDE 12* (4)-#5 #5 @ 24" O.C. N/A N/A

COLUMN SCHEDULE								
COLUMN NUMBER	A-2 A-5	A-3 A-4	B-2 B-5	B-3 B-4	C-2 C-5	C-3 C-4	D-2 D-5	D-3 D-4
CANGOY ROOF EL. 34.76 EOUIPMENT PLATFORM EL. 20.71	X	X					X	
LOW END OF LOW ROOF EL. 20 21 FIRST FLOOR FLOOR	W14080	W1 4x99	W14x109	W14x145	W14x109	W14x145	W14090	WI 4299
BASE PLATE SIZE	22"x1"x1'-10"	22"x1"x1'-10"	27"x3"x2'-3"	27"x3"x2'-3"	27"x3"x2'-3"	27"x3"x2'-3"	22"x1"x1'-10"	22"x1"x1'-10"
LEVEL PLATE SIZE	22"x1/4"x1'-10"	22"x1/4"x1'-10"	27"x1/4"x2'-3"	27"x1/4"x2'-3"	27"x 1/4"x2"-3"	27"x1/4"x2'-3"	22"x1/4"x1'-10"	22"x1/4"x1'-10"
ELEVATION TOP OF LEVEL PLATE	-2.23	-2.23	-1.56	-1.56	-1.56	-1.56	-0.90	-0.90
DETAIL (REFER TO S-203)	A	A	В	В	В	В	А	A
ANCHOR BOLT QUANTITY, SIZE, AND EMBED.	(4)-3/4°Ø x 8°	(4)-3/4°Ø x 8°	(6)-1 1/2°Ø x 16°	(6)-1 1/2"Ø x 16"	(6)-1 1/2°Ø x 16°	(6)-1 1/2°Ø x 16°	(4)-3/4°Ø x 8°	(4)-3/4°Ø x 8°
ANCHOR BOLT STEEL GRADE	ASTM F-1554, GRADE 55	ASTM F-1554, GRADE 55	ASTM F-1554, GRADE 105	ASTM F-1554, GRADE 105	ASTM F-1554, GRADE 105	ASTM F-1554, GRADE 105	ASTM F-1554, GRADE 55	ASTM F-1554, GRADE 55

MARK	SIZE AT WALL	SIZE AT VENEER	SPAN
ML-1	(1)-L6 x 3 1/2 x 3/8 FOR EACH 4" OF CMU WIDTH	NOT APPLICABLE	SEE PLAN AND UP TO 7'-0" CLEA
NOTES:			
1) ALL LIN	ITELS REARING AT MASO	NRY WALLS OR BRICK SH.	ALL HAVE 8" MINIMUM

LINTEL SCHEDULE

1) ALL LINTELS BEARING AT MASONRY WALLS OR BRICK SHALL HAVE 8" MINIMUM BEARING AT EACH END UNLESS NOTED OTHERWISE. PROVIDE 24" LONG x 24" MIN DEEP SOLID BEARING AT END OF LINTEL AT MASONRY WALL SOLID LINTEL BEARING SHALL CONSIST OF HOLLOW BLOCK FILLED SOLID W/ GROUT, TYPICAL.

2) REFER TO TYPICAL METAL STUD DETAILS ON S-801 FOR ADDITIONAL INFORMATION AND REQUIREMENTS AT METAL STUD LINTELS, BUILT-UP MEMBERS AND TYPICAL CONNECTIONS

3) PROVIDE LINTELS OVER ALL OPENINGS PER ABOVE, INCLUDING DOORS, WINDOWS, DUCTS LOUVERS, RECESSES, AND OTHER OPENINGS. CONTRACTOR SHALL FIELD COORDINATE ALL OPENING LOCATIONS WITH LINTEL PROVIDER.

4) FOR DIMENSIONS AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

5) WRAP END OF LINTELS IN BUILDING PAPER AT CONTROL JOINTS.

6) ALL LINTELS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

7) LINTELS AT EXTERIOR METAL STUD WALLS (IF APPLICABLE) SHALL BE AS FOLLOWS. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION



LGMS BOX LINTEL IF APPLICABLE TO BE DESIGNED BY LGMS ENGINEER

TENSION OR COMPRESSION LAP SPLICE LENGTHS BAR SIZE SPLICE LENGTH

NOTES:

"SIDE LAP" ALL LAP SPLICED TO PROVIDE MAXIMUM MOMENT CAPACITY.
 WHEN BARS OF DIFFERENT DIAMETER ARE LAP SPLICED, USE THE SPLICE LENGTH OF THE LARGER BAR.

COMP	RESSION LAP SPLI FOR REINFO	CES AND DEVEL RCING BARS	OPMENT
STEEL GRADE (KSI)	CONCRETE COMPRESSION STRENGTH (f) _C	LAP SPLICE IN d _b ≥ 12 IN.	DEVELOPMENT IN d _b (8 IN. MIN.)
	3000	20	15
40	4000	20	13
	5000	20	12
	3000	25	19
50	4000	25	16
	5000	25	15
	3000	30	22
60	4000	30	19
	5000	30	18
	3000	44	28
75	4000	44	24
1	5000	44	23

NOTES:

1. LINEAR INTERPOLATION FOR CONCRETE STRENGTHS NOT LISTED ON THIS CHART IS PERMITTED.

2. FOR EPOXY-COATED REBAR: MULTIPLY THE SPLICE AND DEVELOPMENT LENGTHS ABOVE BY 1.3.

			IENO	ON DAY SPER	SES MAD DEA	ELOPIMENT. LI	EIVOTHO (IIV.)	FER CONCRE	IE STREWGII	1 (F31)			
		3000 PSI			4000 PSI			5000 PSI					
BAR SIZE L/	LAP CLASS	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1		CASE 1	CASE 2
#3	A	22	32	17	25	19	28	15	22	17	25	13	19
#3	В	28	42	22	32	24	36	19	28	22	33	17	25
#4	A	29	43	22	33	25	37	19	29	22	33	17	26
	В	37	56	29	43	32	48	25	37	29	43	22	33
#5	A	36	54	28	41	31	47	24	36	28	42	22	32
#0	В	47	70	36	54	40	60	31	47	36	54	28	42
#6	A	43	64	33	50	37	56	29	43	33	50	26	38
***	В	56	84	43	64	48	72	37	56	43	65	33	50
#7	A	63	94	48	72	54	81	42	63	49	73	37	56
***	В	81	122	63	94	70	106	54	81	63	94	49	73
#8	A	72	107	55	82	62	93	48	71	55	83	43	64
#0	В	93	139	72	107	80	121	62	93	72	108	55	83
#9	A	81	121	62	93	70	105	54	81	63	94	48	72
#5	В	105	157	81	121	91	136	70	105	81	122	63	94
#10	A	91	136	70	105	79	118	61	91	70	105	54	81
#10	В	118	177	91	136	102	153	79	118	91	137	70	105
#11	A	101	151	78	116	87	131	67	101	78	117	60	90
	В	131	196	101	151	113	170	87	131	101	152	78	117
#14	N/A	121	181	93	139	105	157	81	121	94	140	72	108
#18	N/A	161	241	124	184	139	209	107	161	125	187	96	114

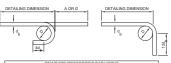
COLUMN SCHEDULE NOTES: FOR ORIENTATION OF COLUMNS, BASE PLATES, AND LEVEL PLATES, THE FIRST DIMENSION GIVEN IN THE COLUMN SCHEDULE IS IN THE NORTH/SOUTH DIRECTION

 REFER TO SHEET S-203 FOR BASE PLATE DETAILS ALL BASE PLATES SHALL BE 50 KSI STEEL

STEEL ANCHOR ROD DIMENSION LISTED IN COLUMN SCHEDULE IS THE REQUIRED EMBEDMENT LENGTH INTO FOUNDATION. TOTAL ANCHOR ROD LENGTH MUST PROVIDE THIS MINIMUM EMBEDMENT PLUS ALLOWANCE FOR INSTALLATION AS PER BASE PLATE DETALS.

ENCASE COLUMN FULL HEIGHT IN CONCRETE. SEE DETAILS ON S-203 FOR ADDITIONAL INFORMATION AND REQUIREMENTS AT ENCASEMENT.

NOTES:
1. LINEAR INTERPOLATION FOR CONCRETE STRENGTHS NOT LISTED ON THIS CHART IS PERMITTED.
2. FOR EPOXY-COATED REBAR: MULTIPLY THE SPLICE AND DEVELOPMENT LENGTHS ABOVE BY 1.3.



STANDARD REINFORCING BAR HOOKS									
BAR SIZE		180° HOOK	90° HOOK						
	A OR G	J	D	A OR G	D				
#3	0'-5"	0'-3"	0'-2 1/4"	0'-6"	0'-2 1/4"				
#4	0'-6"	0'-4"	0'-3"	0'-8"	0'-3"				
#5	0'-7"	0'-5"	0'-3 3/4"	0'-10"	0'-3 3/4"				
#6	0'-8"	0'-6"	0'-4 1/2"	1'-0"	0'-4 1/2"				
#7	0'-10"	0'-7"	0'-5 1/4"	1'-2"	0'-5 1/4"				
#8	0'-11"	0"-8"	0'-6"	1'-4"	0'-6"				
#9	1'-3"	0'-11 3/4"	0'-9 1/2"	1'-7"	0'-9 1/2"				
#10	1'-5"	1'-1 1/4"	0'-10 3/4"	1'-10"	0'-10 3/4"				
#11	1'-7"	1'-2 3/4"	1'-0"	2'-0"	1'-0"				
#14	2'-3"	1'-9 3/4"	1'-6 1/4"	2'-7"	1'-6 1/4"				
#18	35.0*	2'-4 1/2"	2'-0"	3'-5"	250"				

SHEET

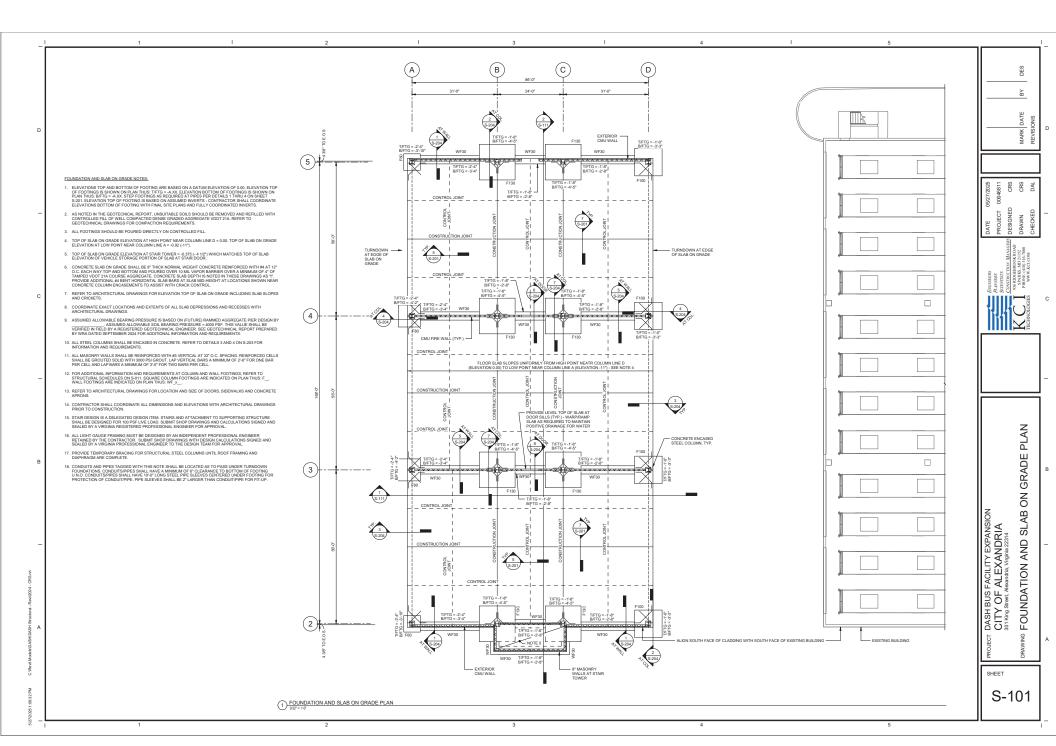
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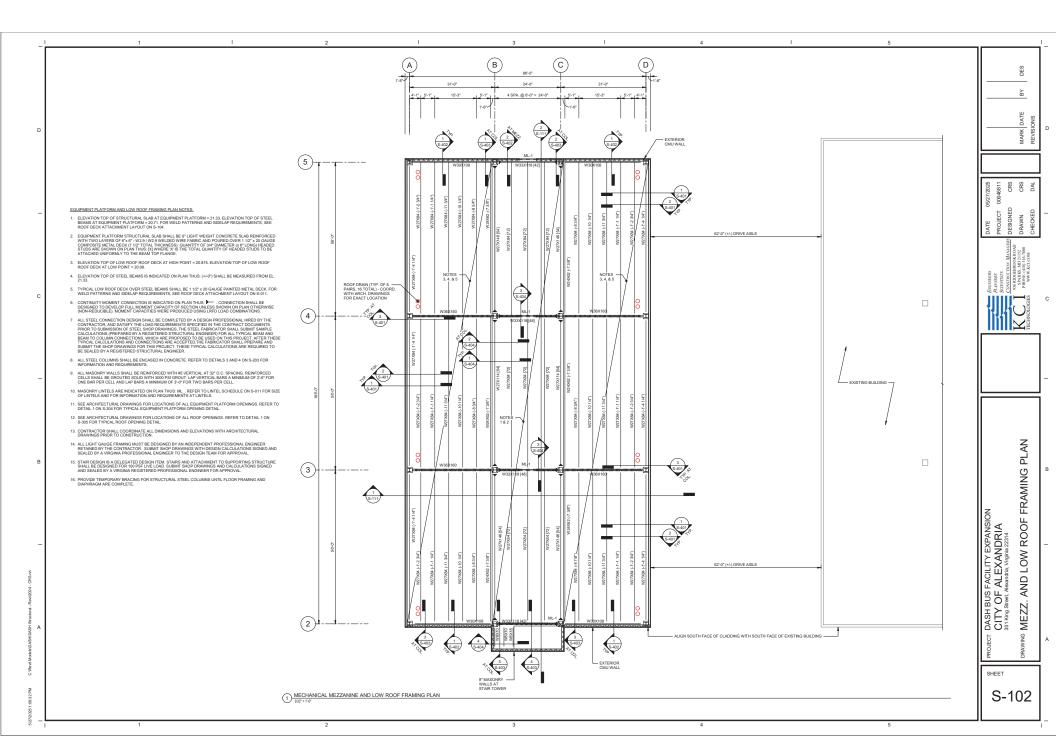
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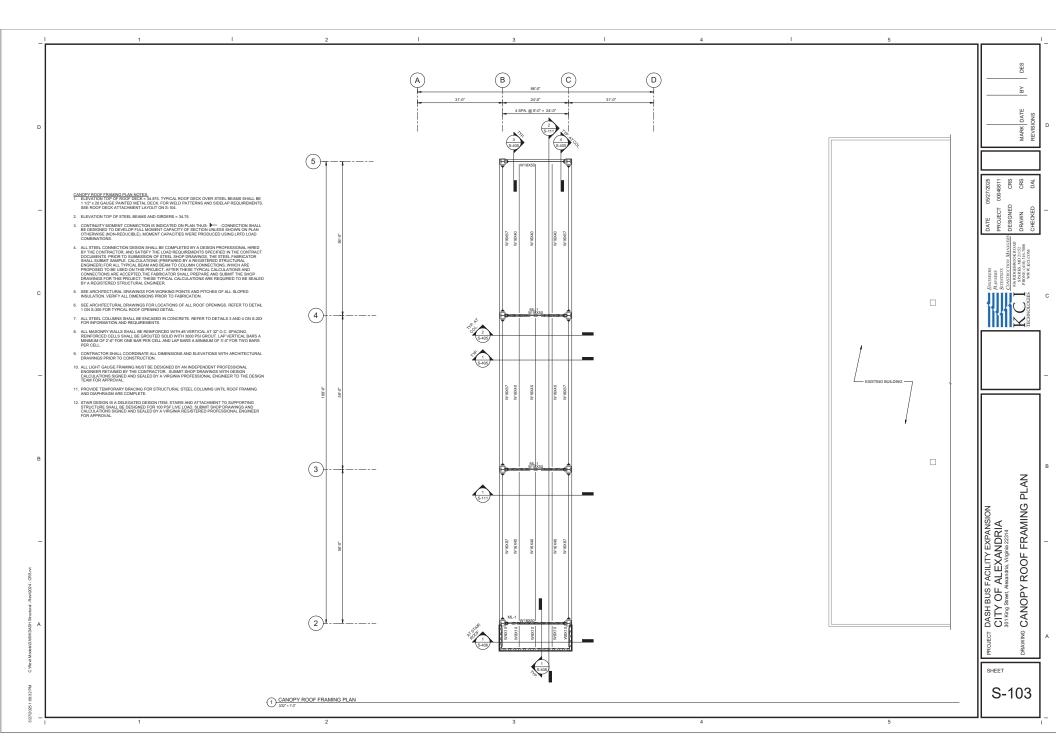
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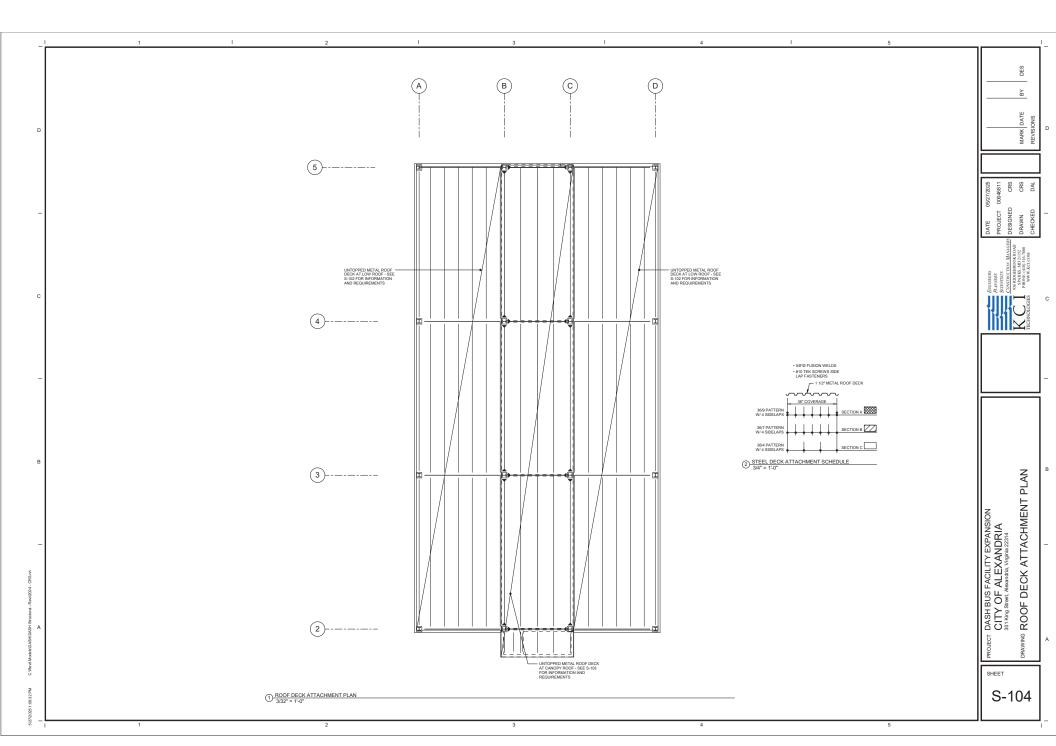
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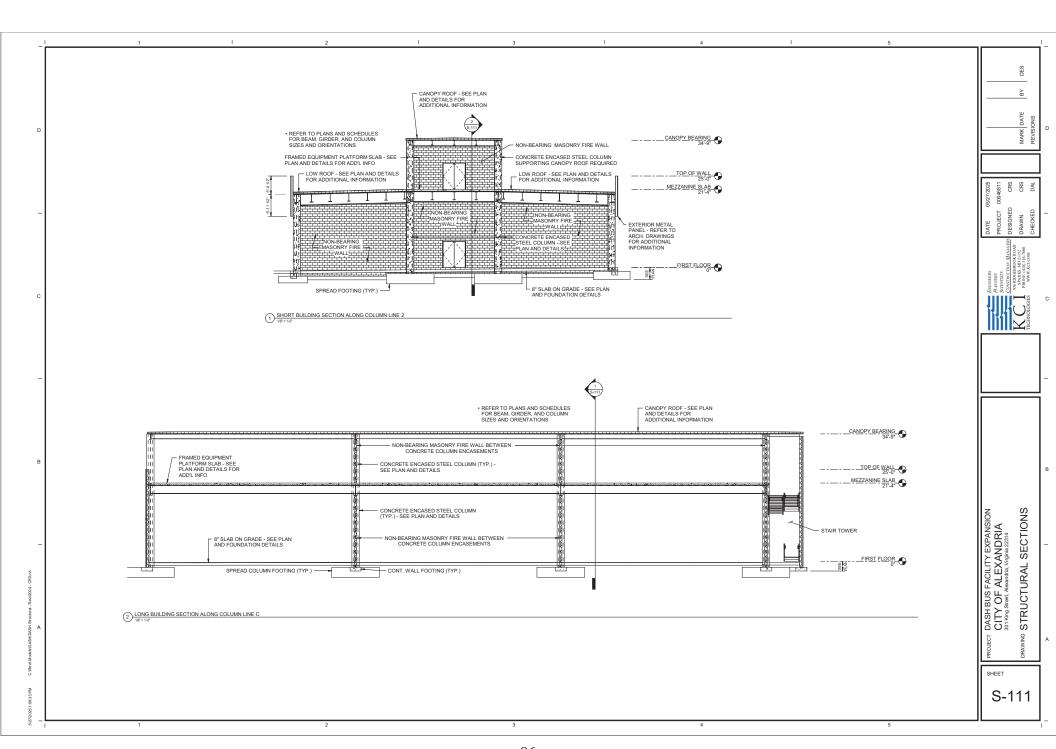
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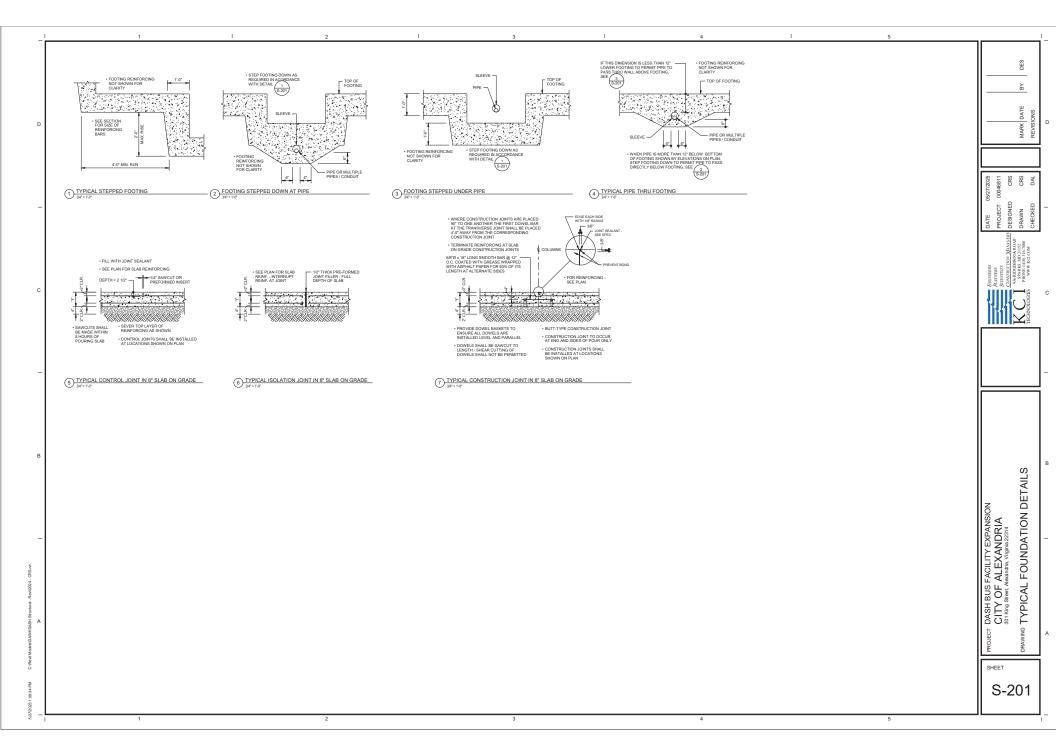


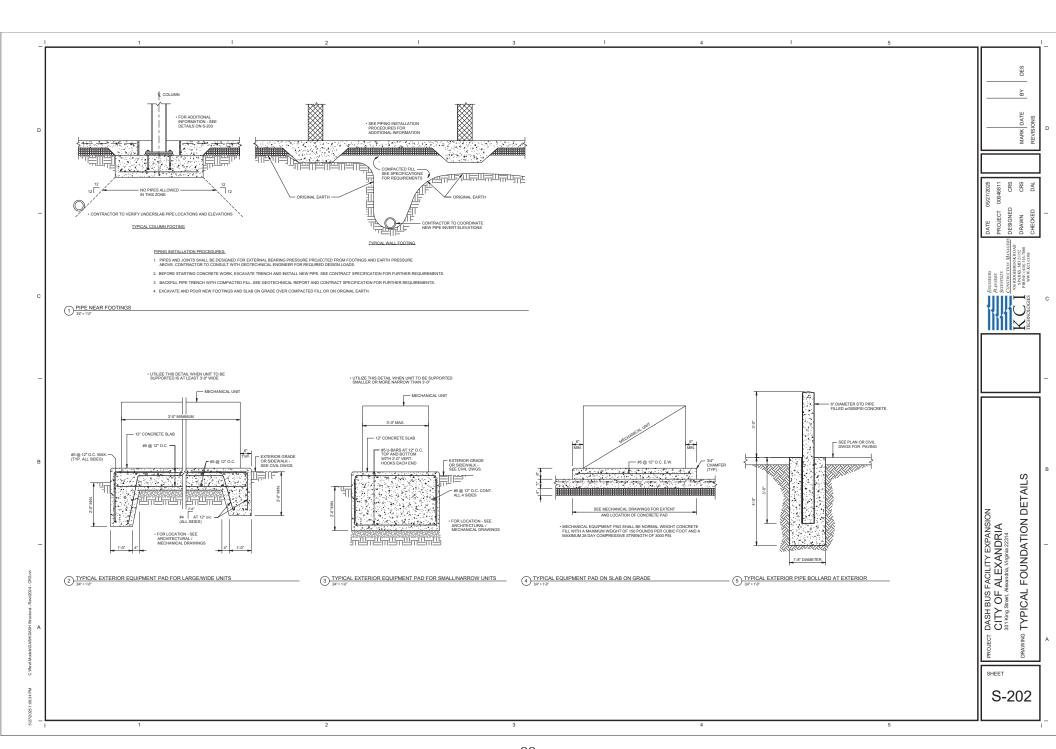


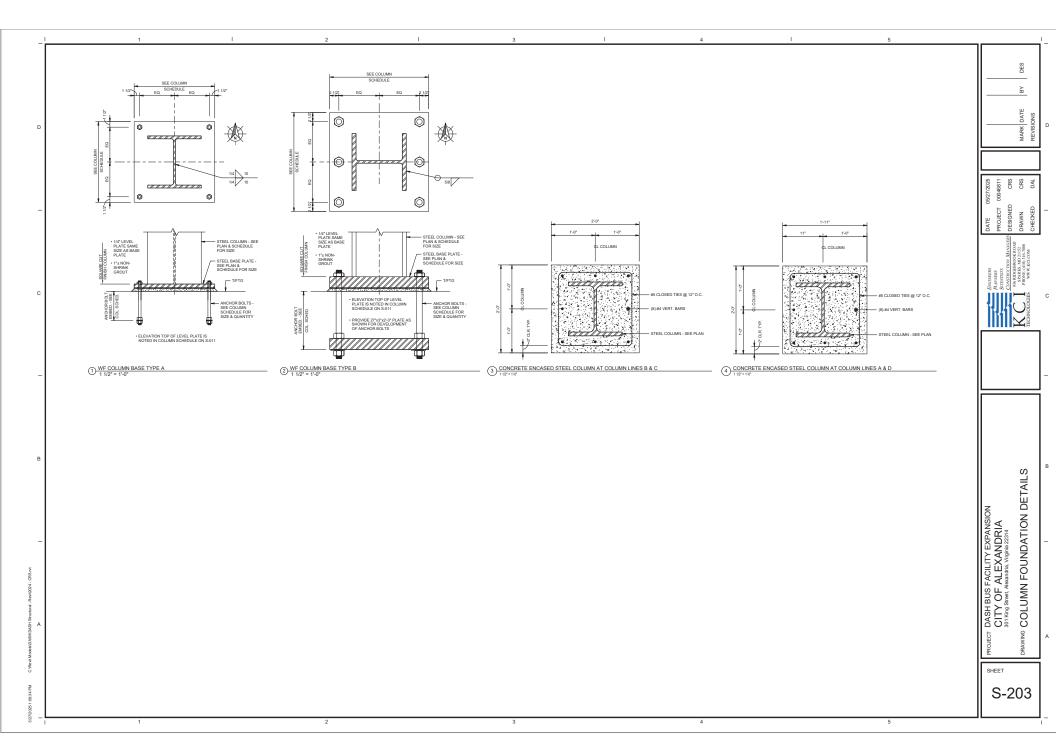


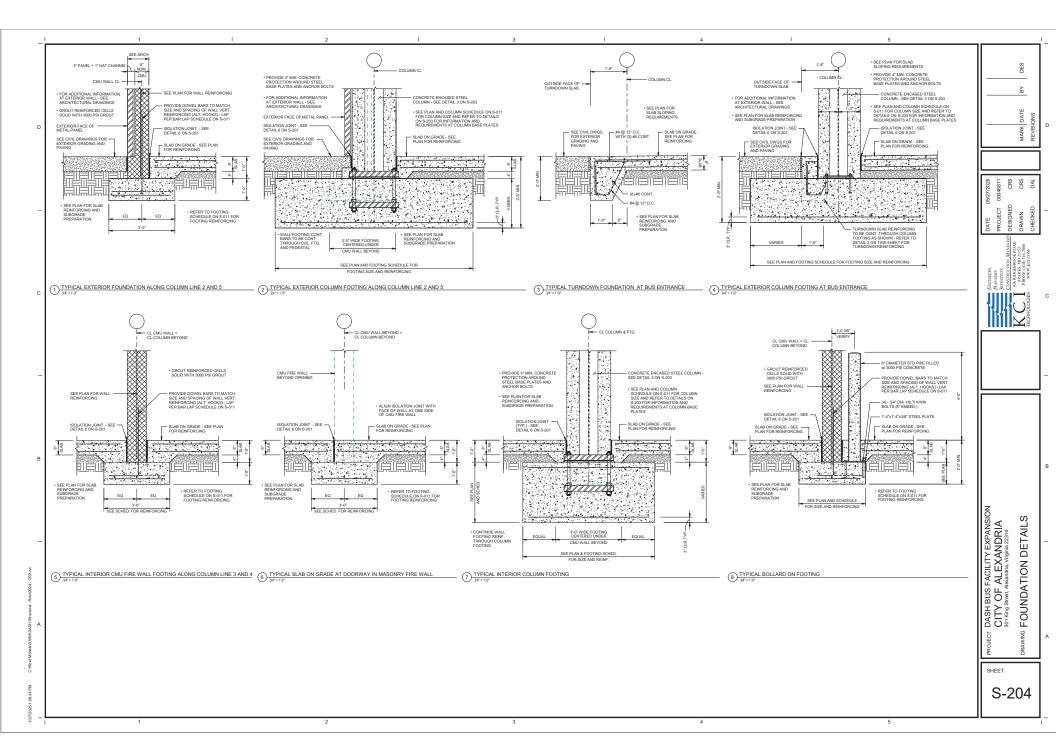


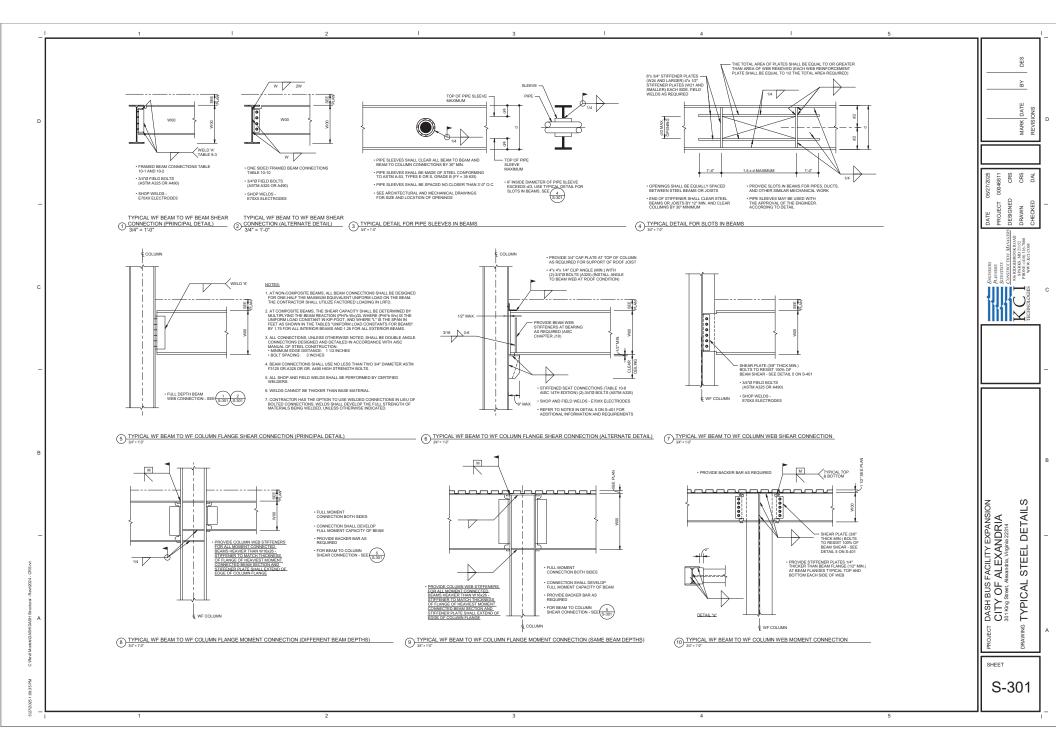


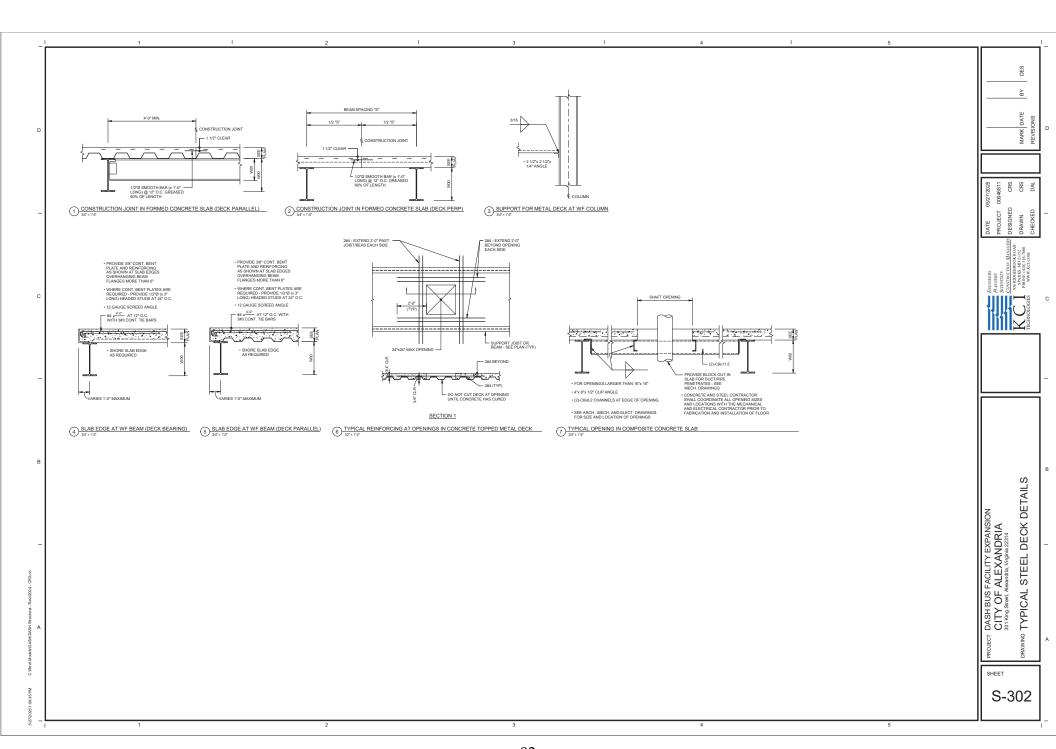


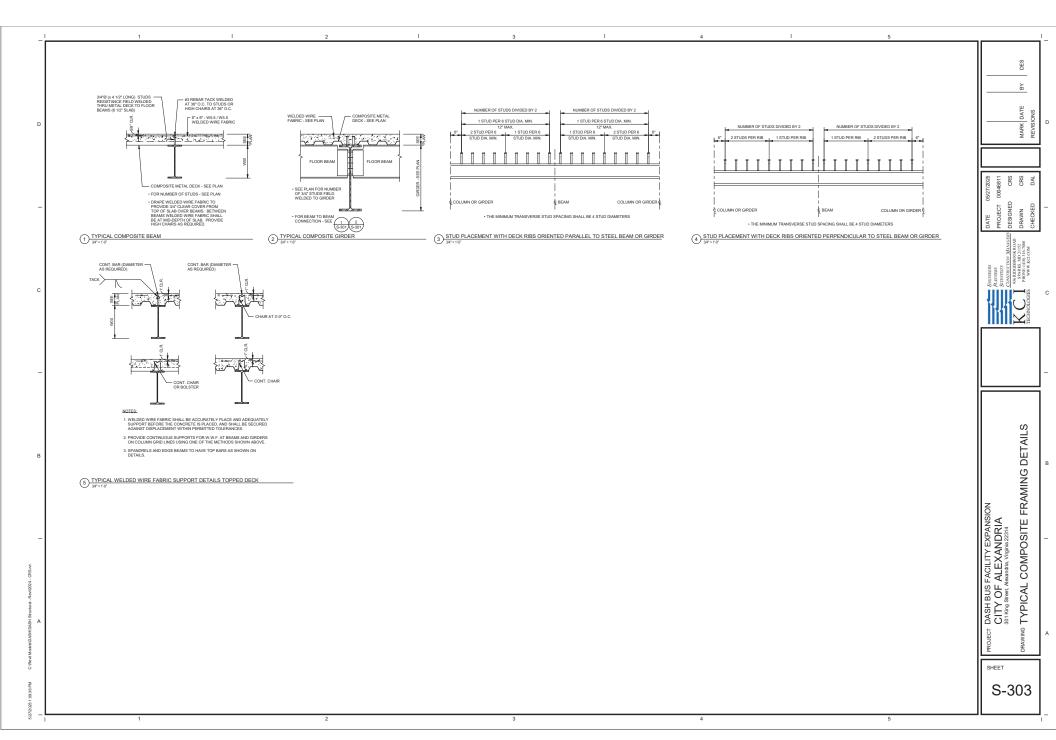


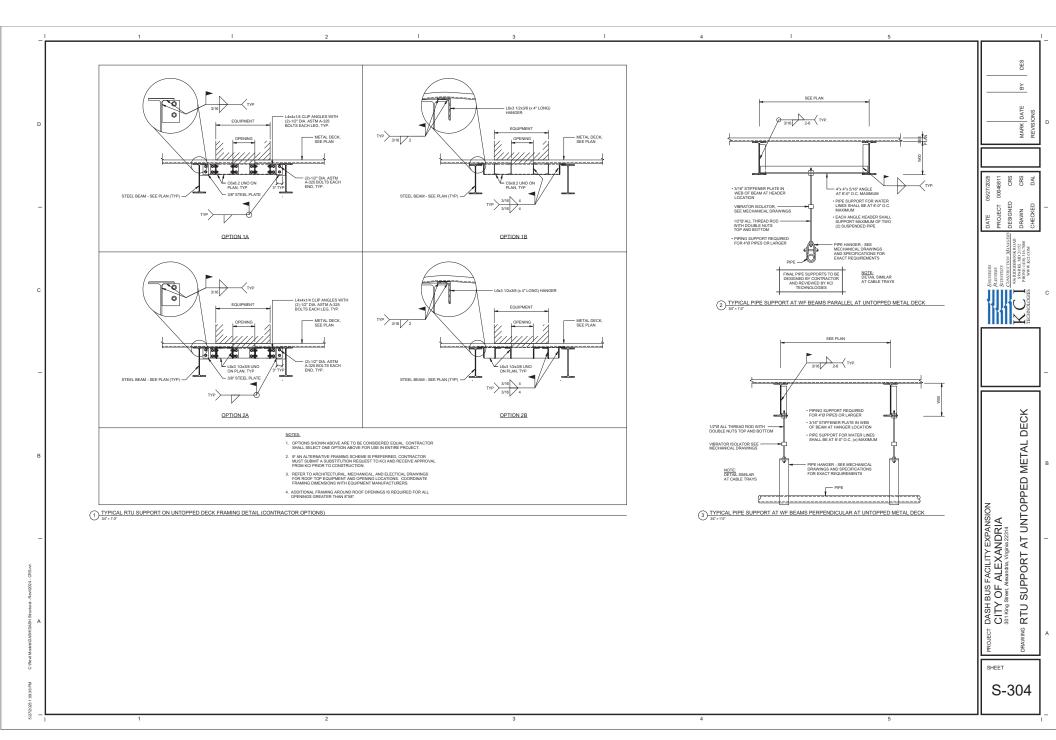


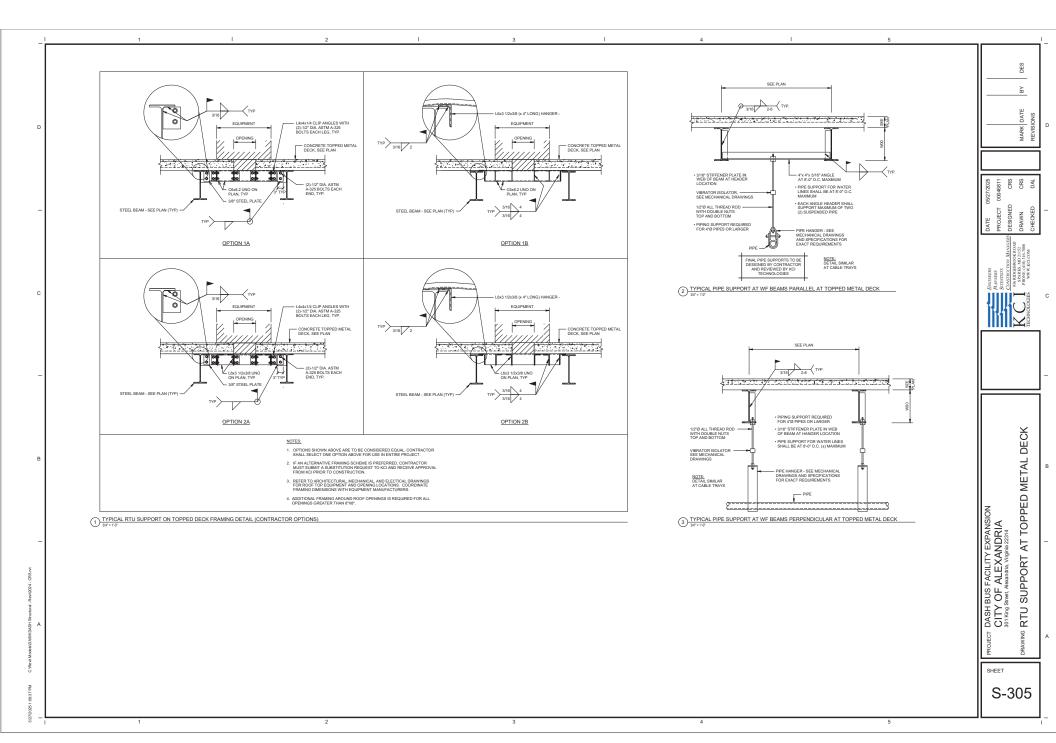


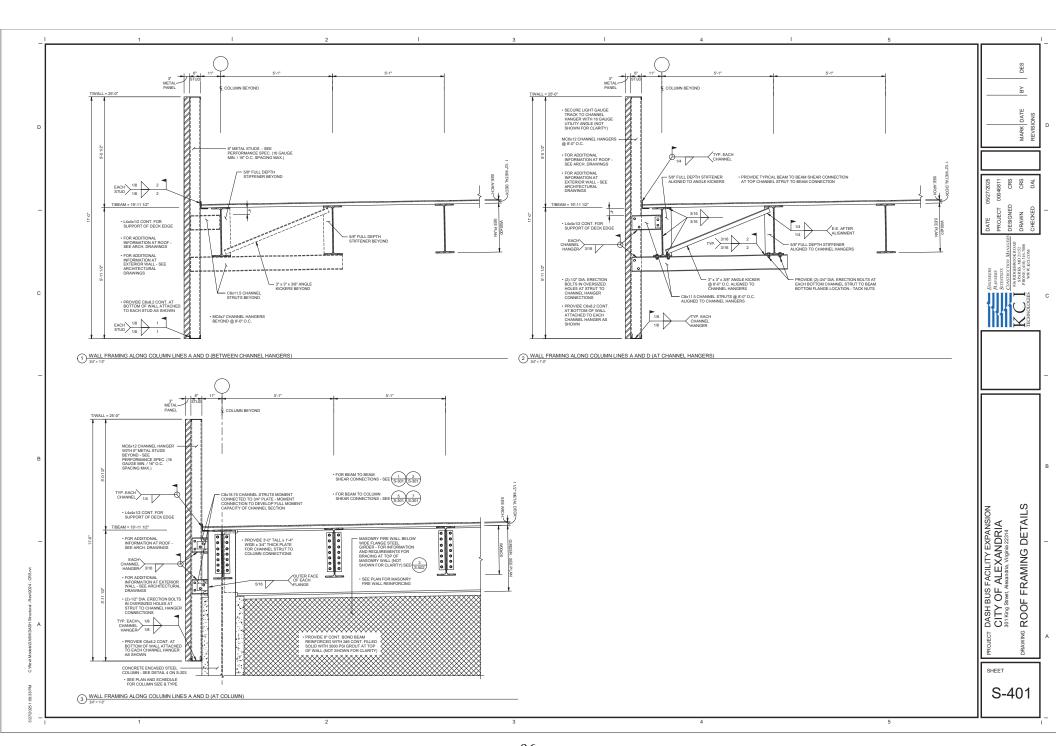


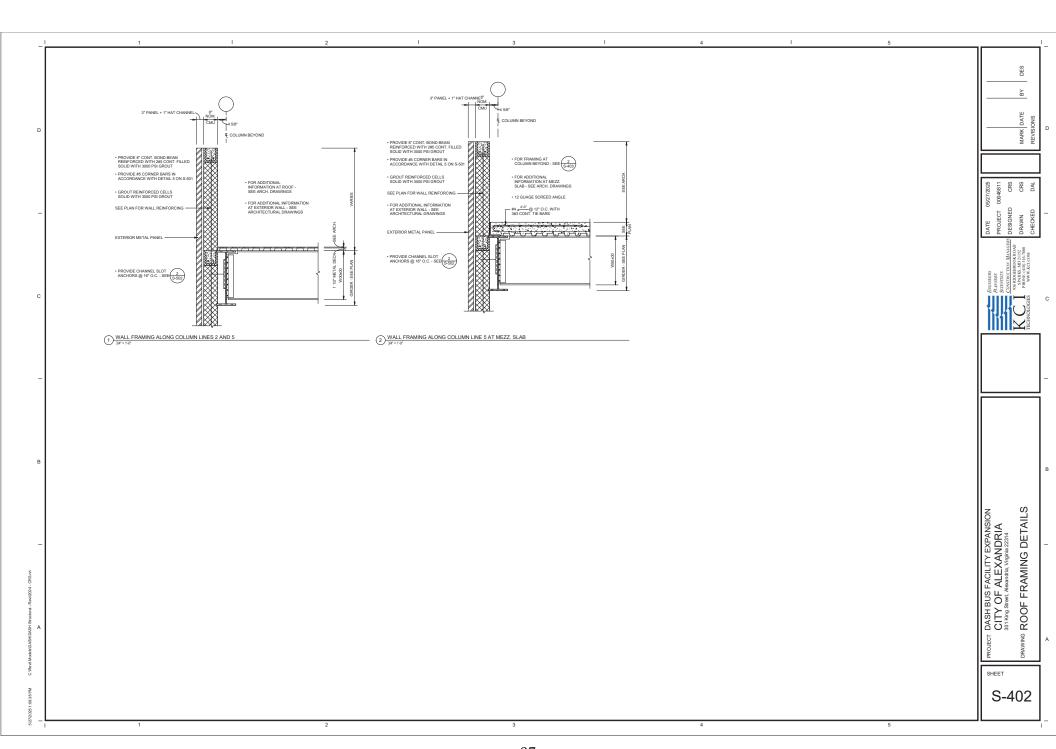


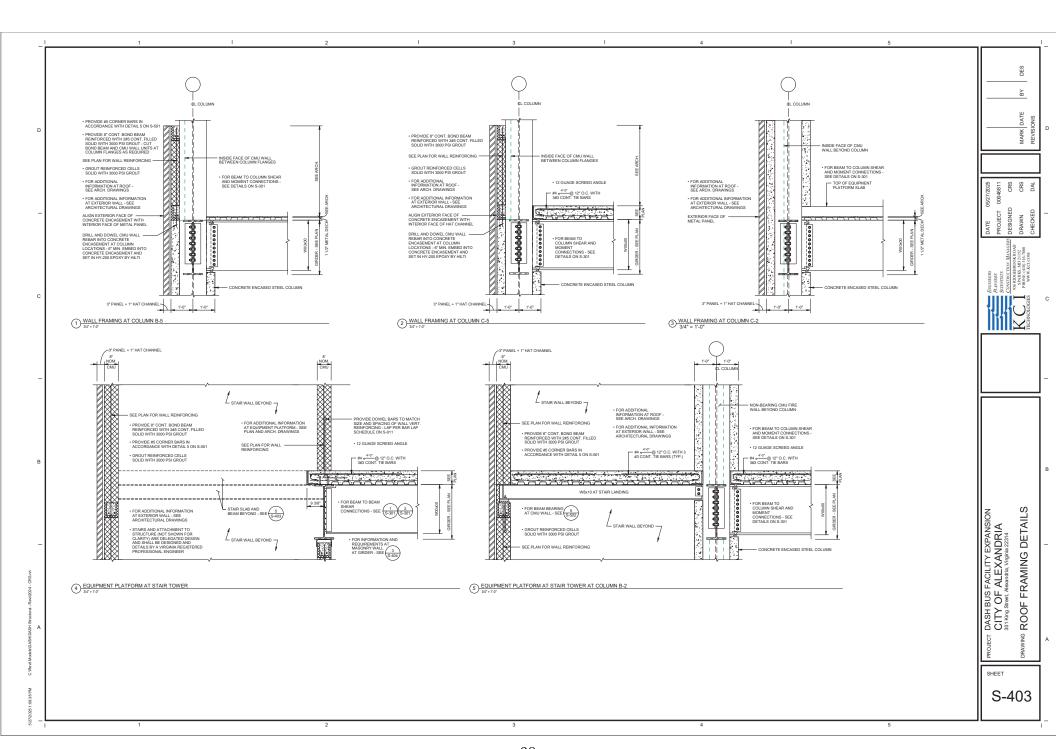


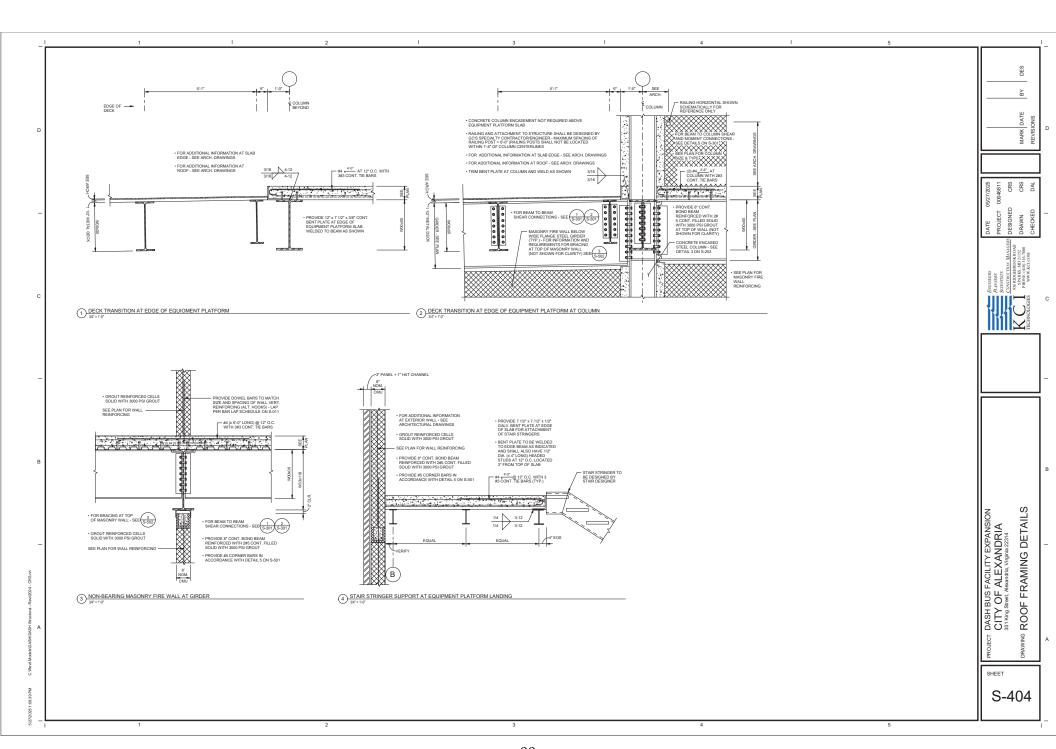


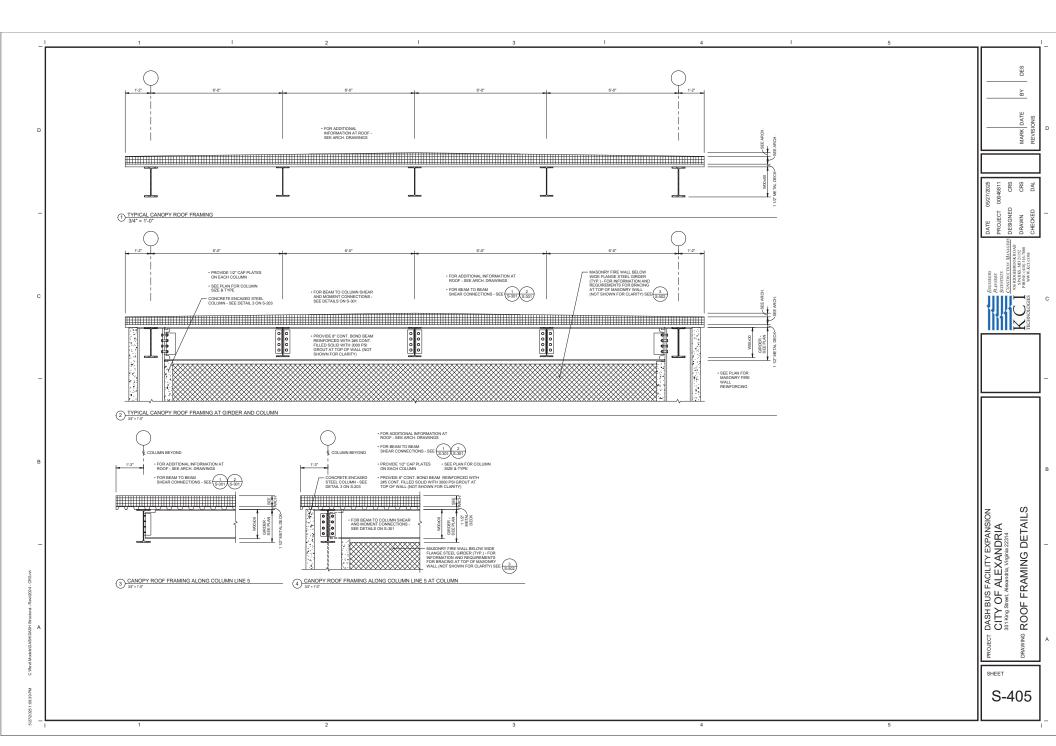


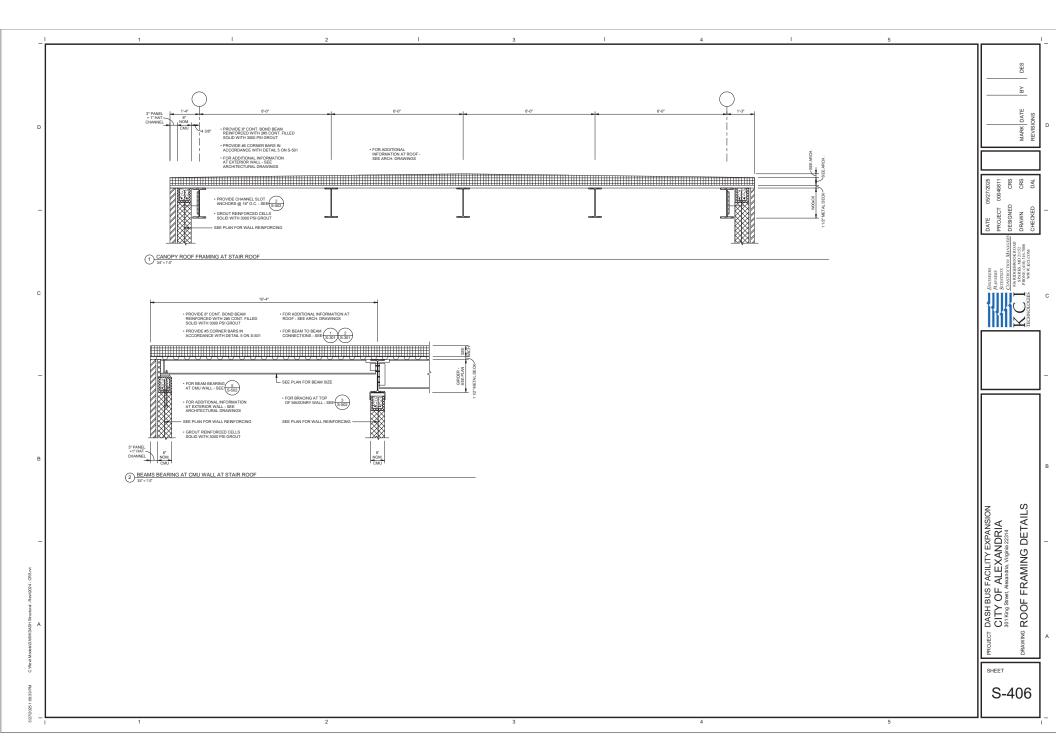


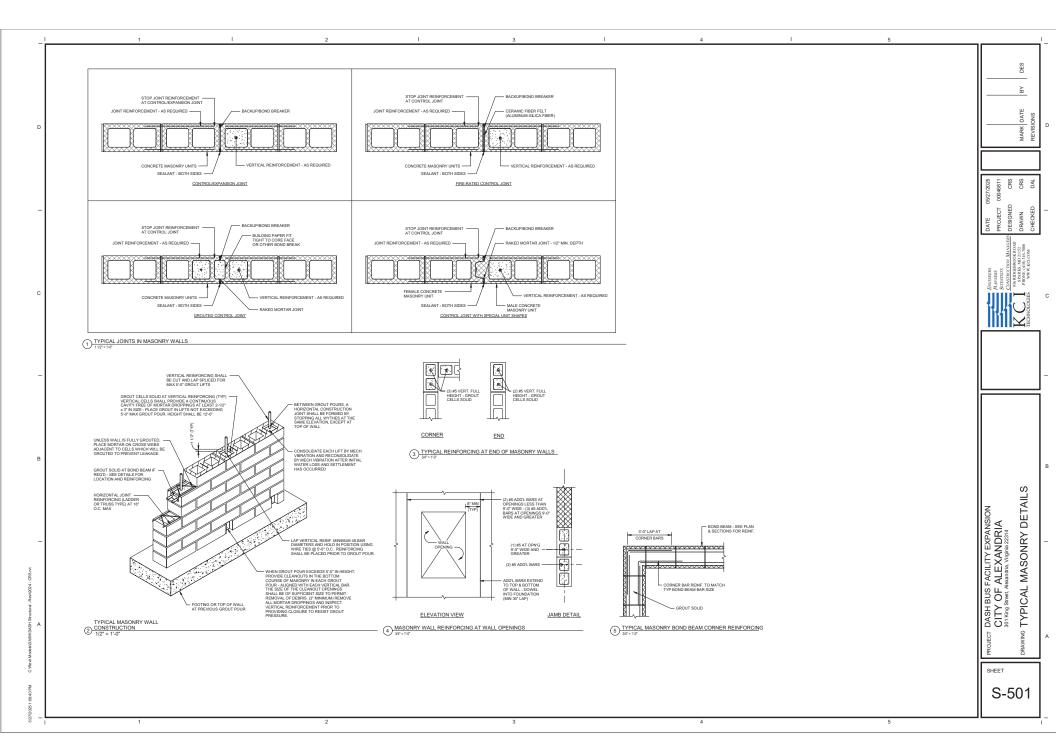


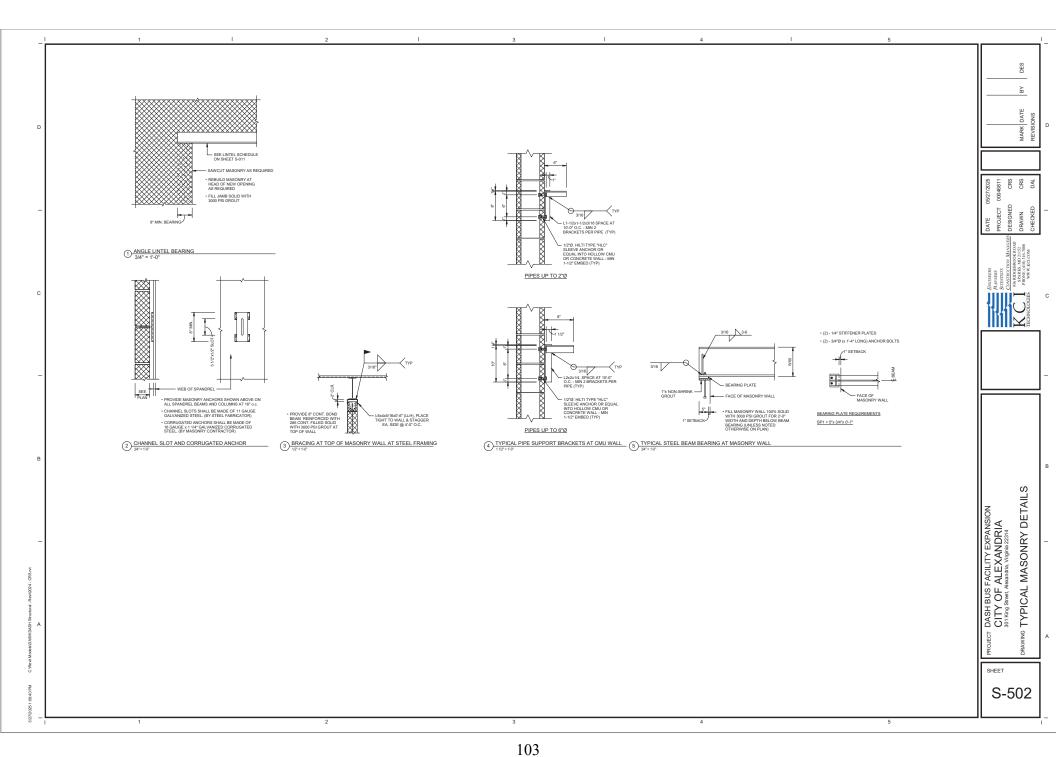


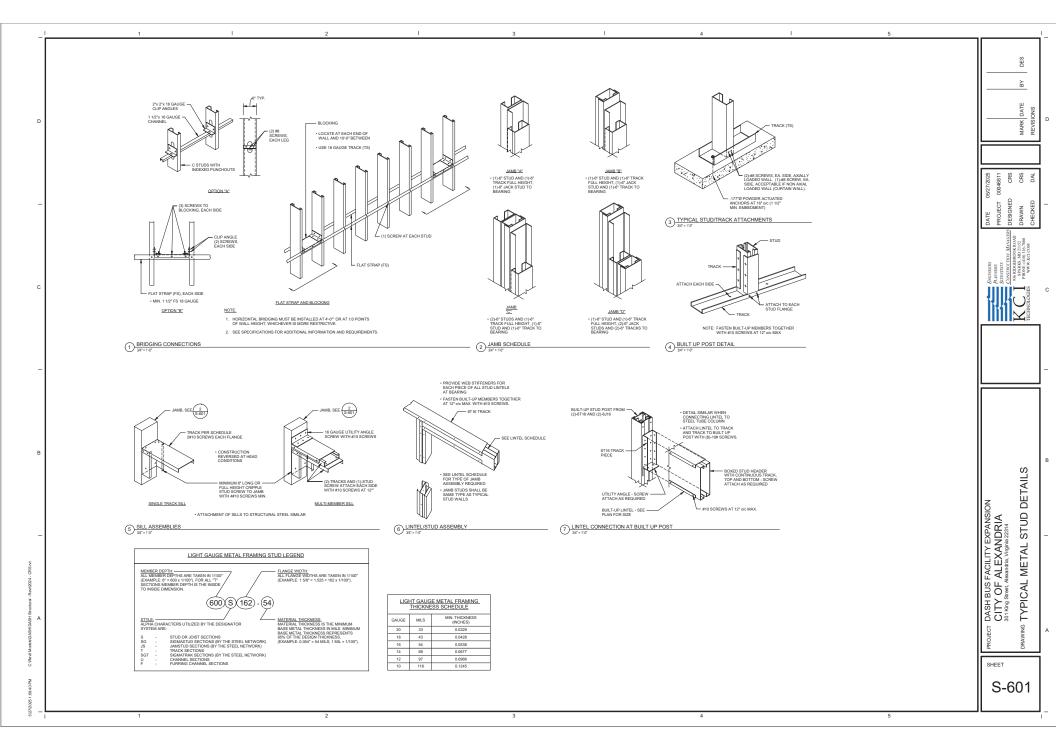


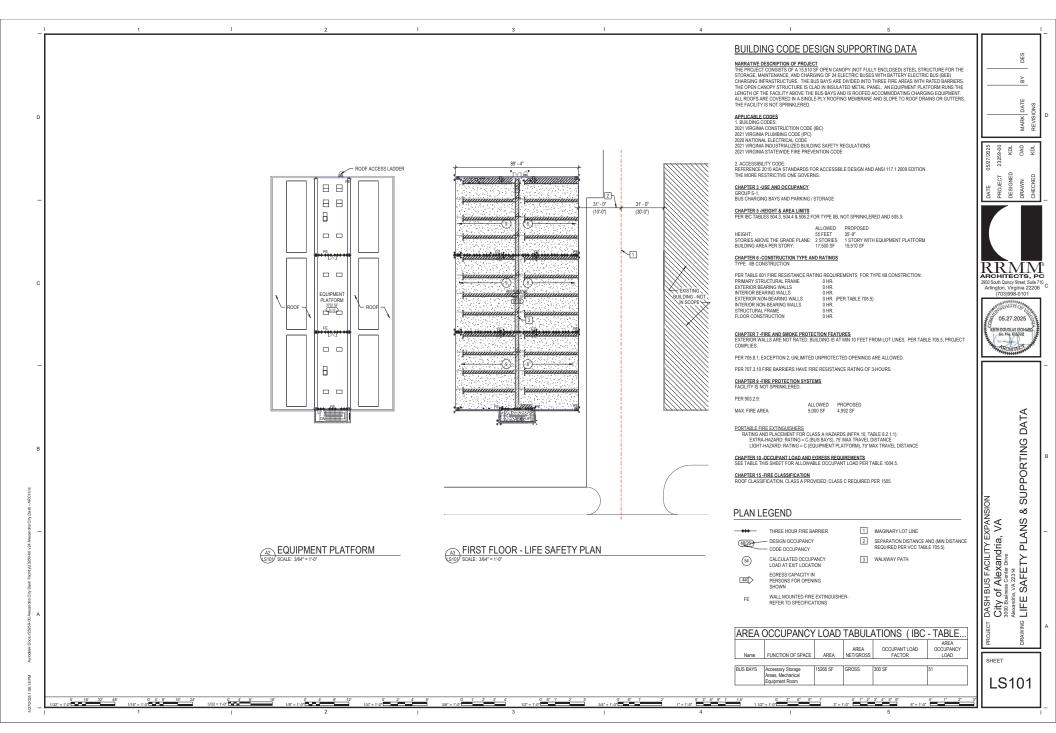


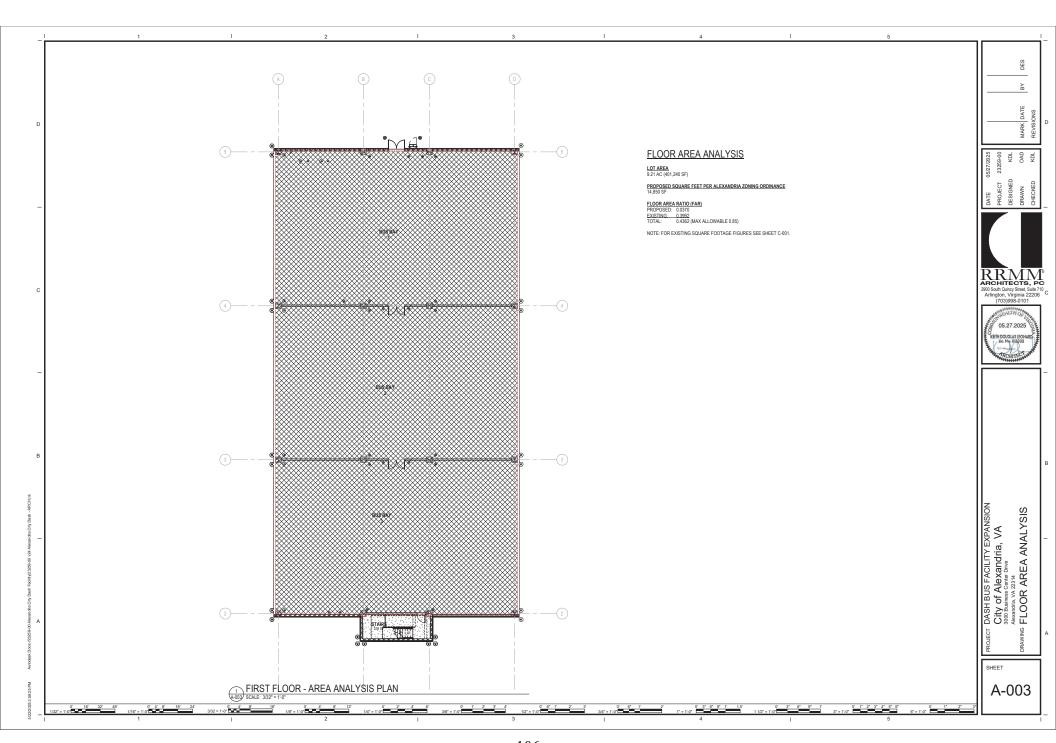


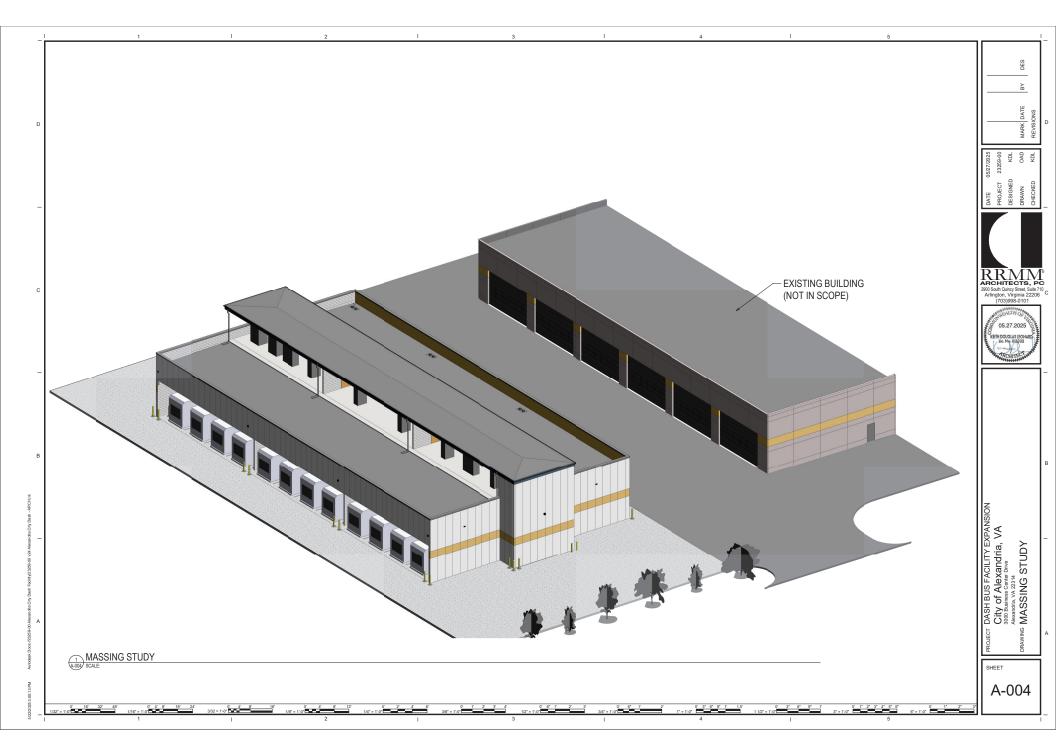


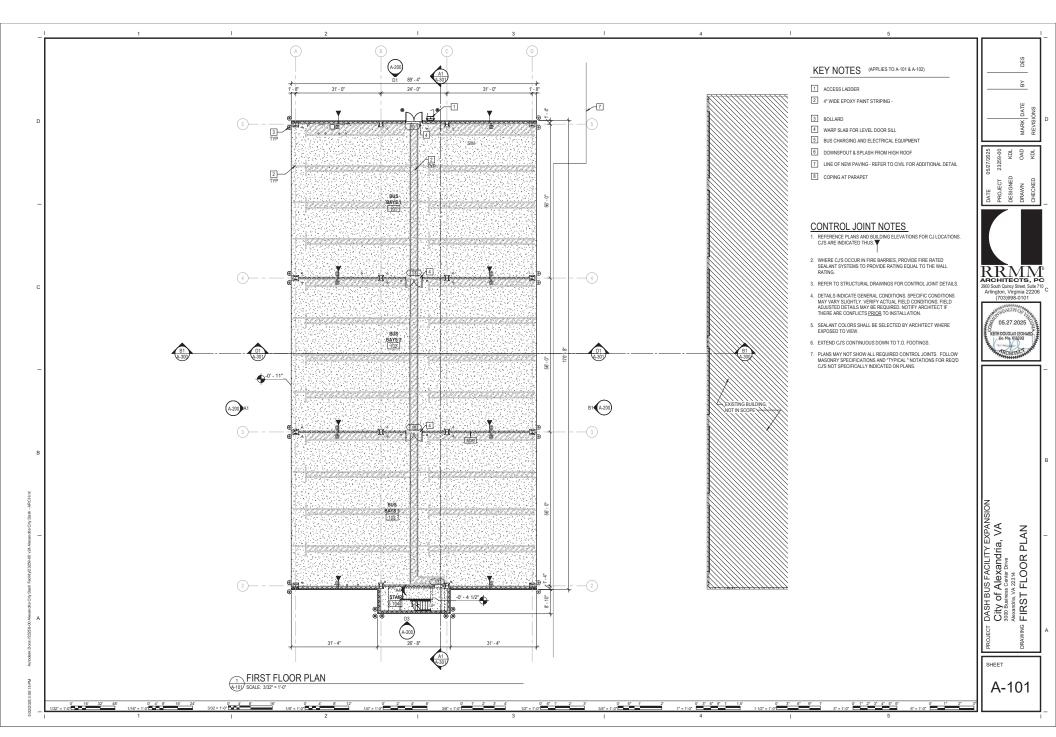


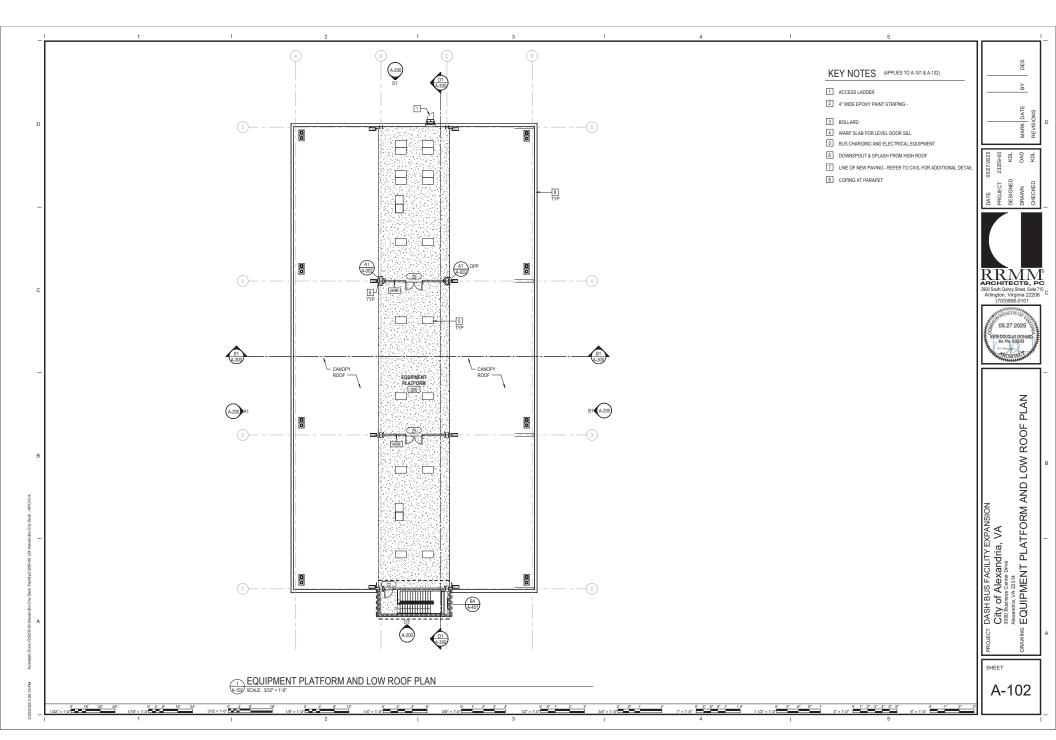


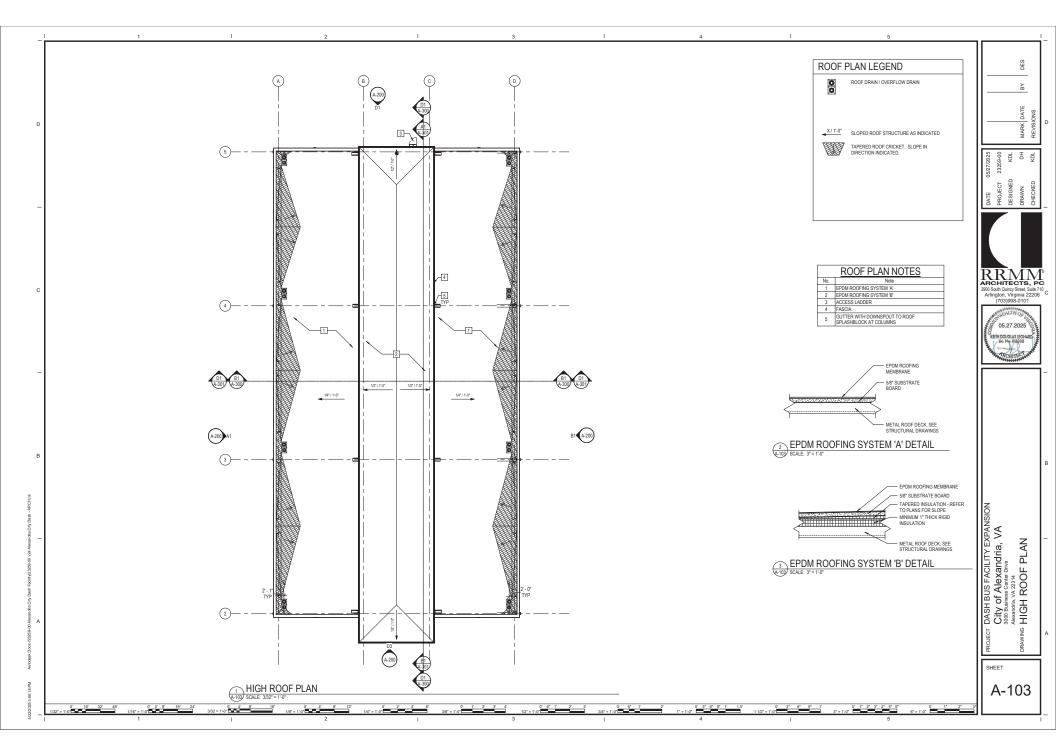


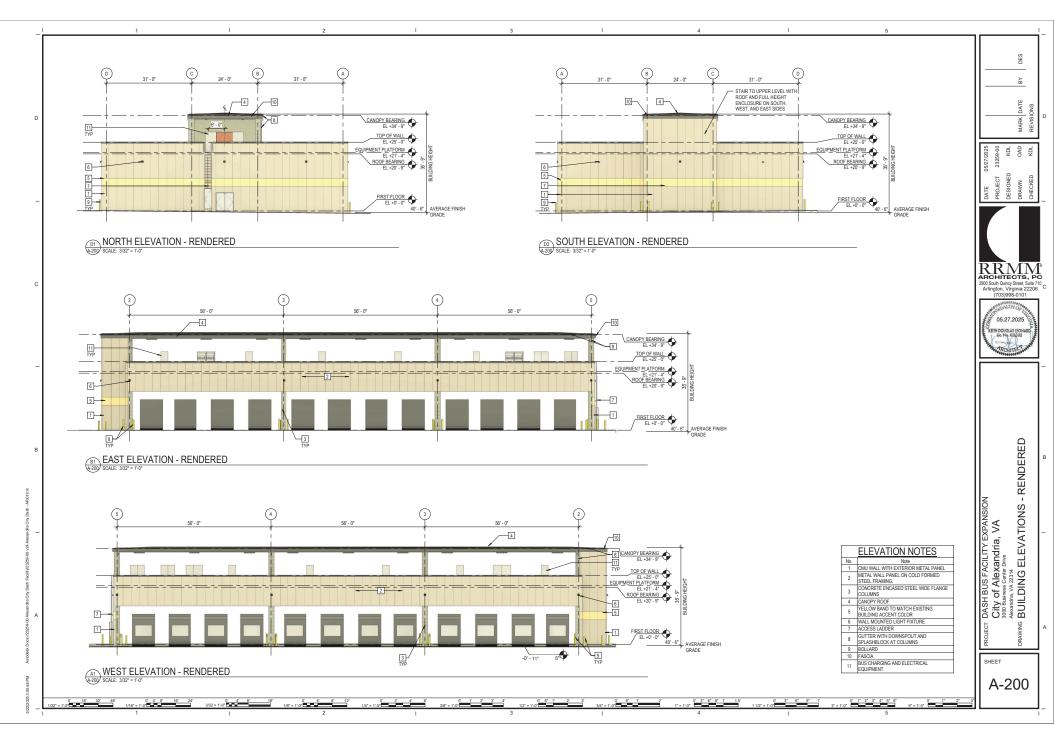


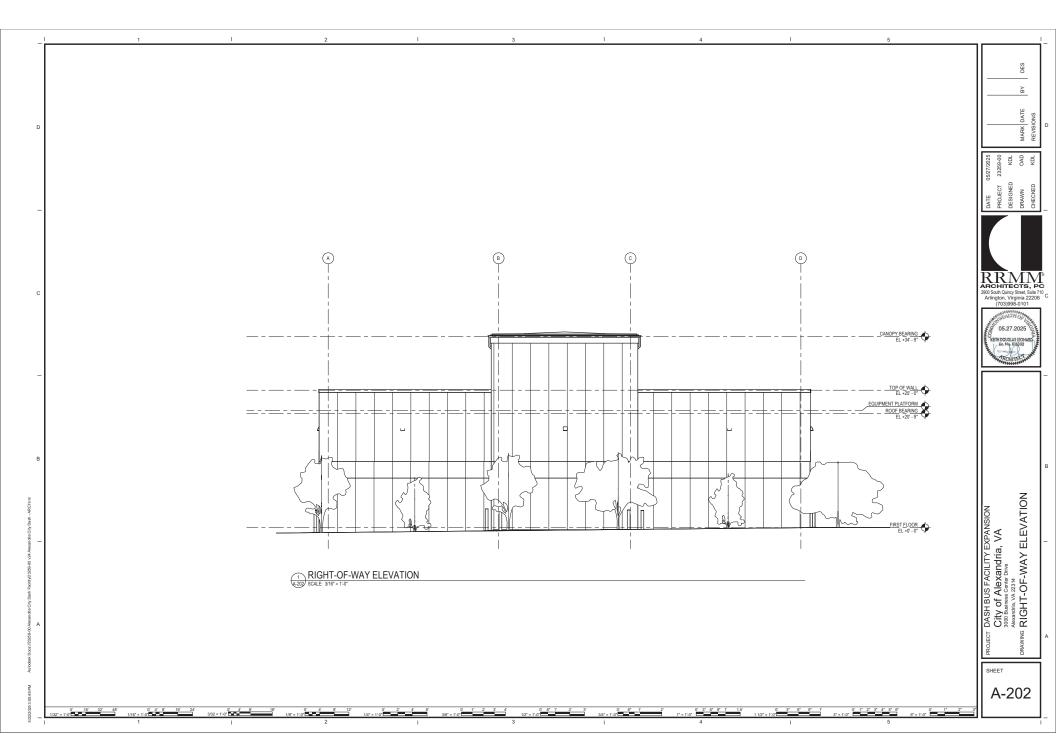


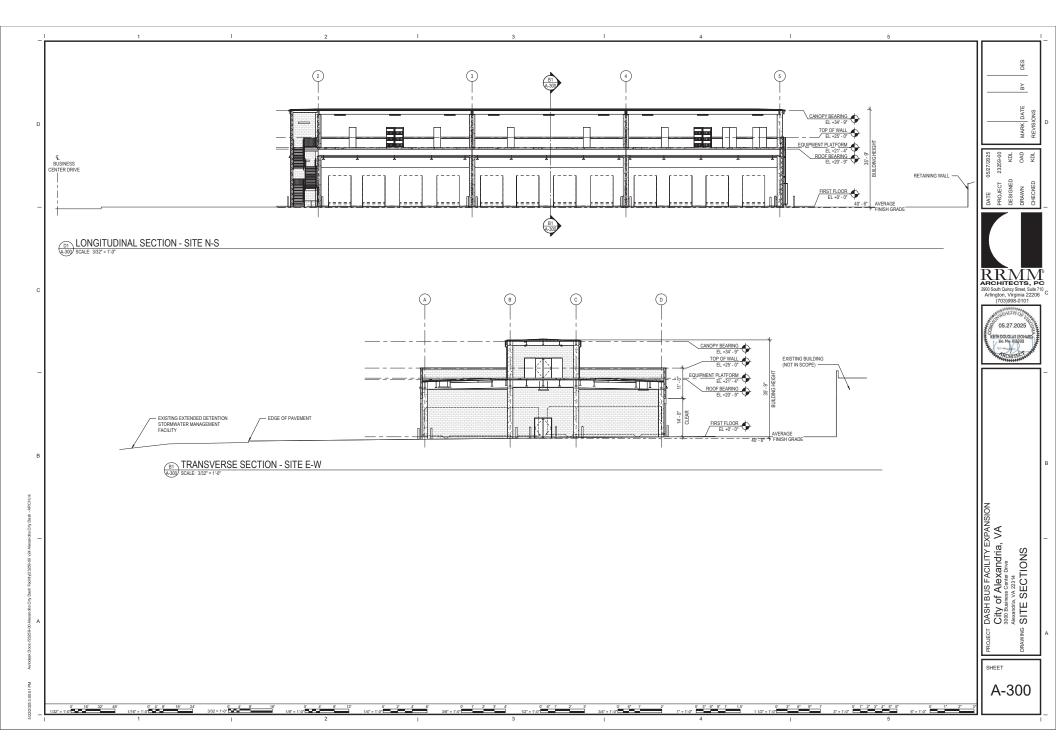


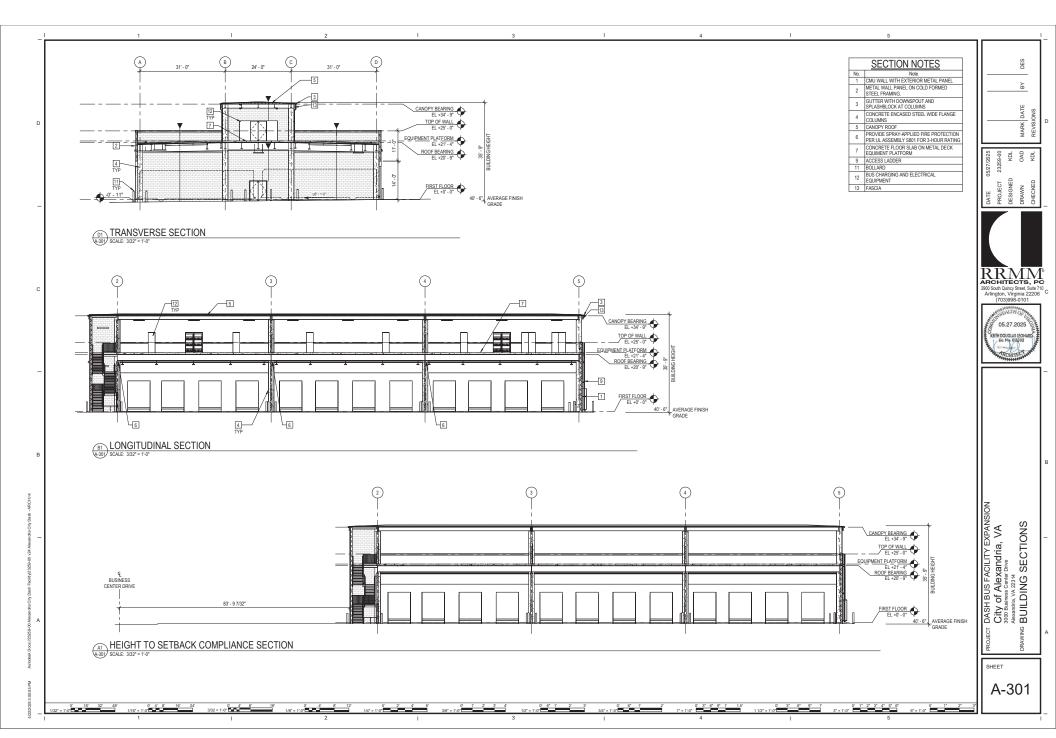


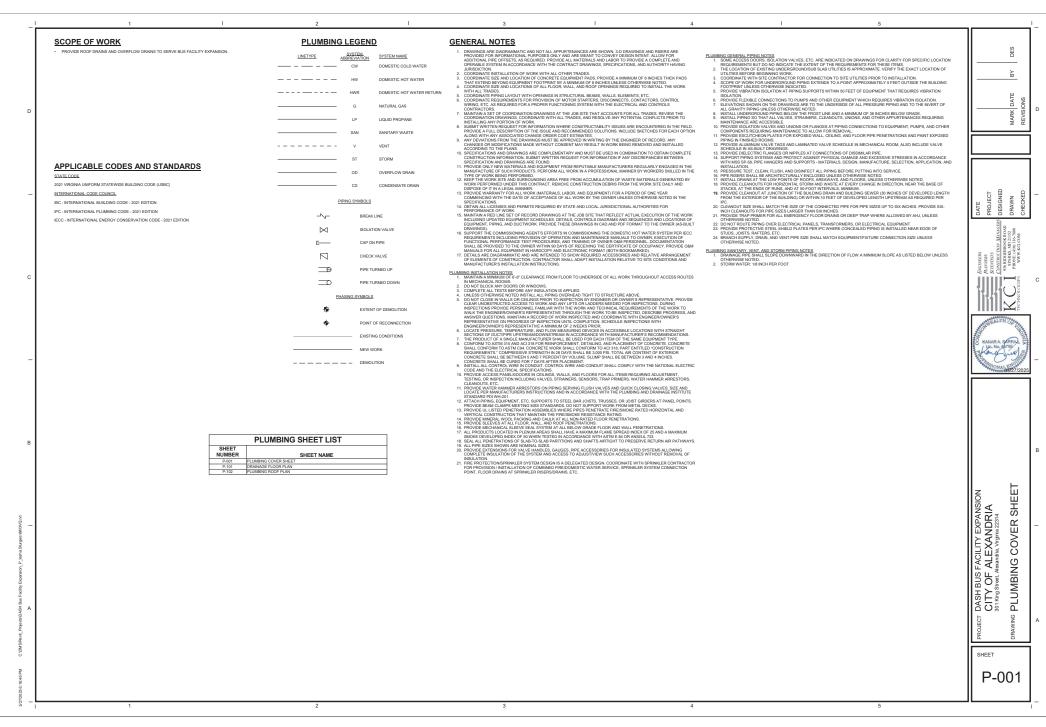


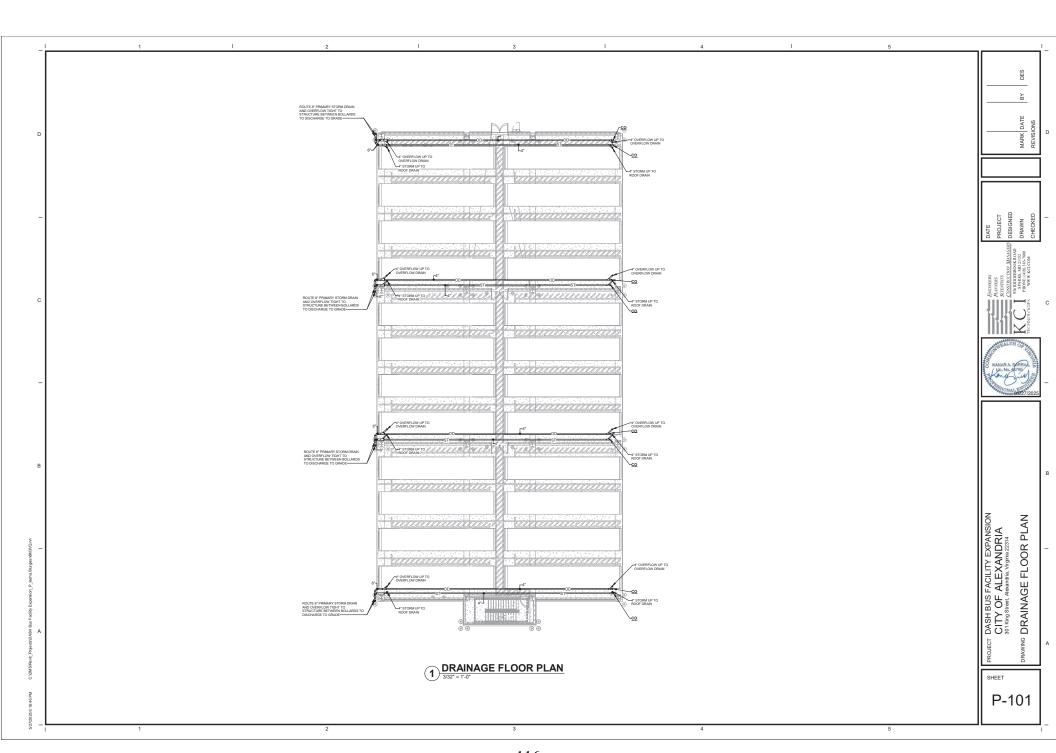


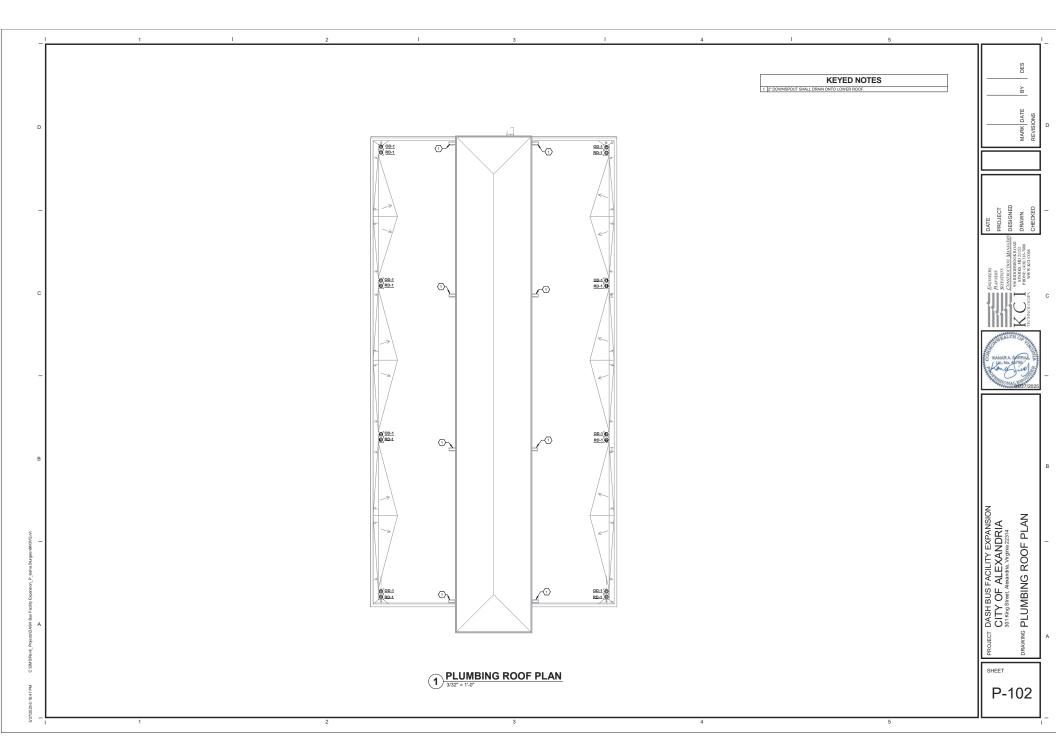


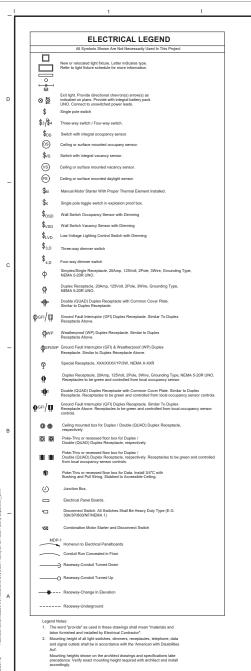












GENERAL ELECTRICAL NOTES:

- 1. PROVIDE MATERIALS THAT ARE NEW AND WITHOUT IMPERFECTIONS OR BLEMISHES. AND PROTECTED FROM THE ELEMENTS PRIOR TO CONSTRUCTION.
- COGRONATE LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ROUTINGS OF ALL ELECTRICAL FEEDERS (AND ASSOCIATED PULLBOXES) AND BRANCH CIRCUITS WITH ALL OTHER UTILITIES (EXISTING AND NEW), WITH STRUCTURE, AND WITH BUILDING ELEMENTS.
- 4. UNLESS NOTED OTHERWISE, EVERY CONDUIT CONTAINING 120V RATED WIRING AND GREATER, SHALL CONTAIN A SEPARATE INSULATED GROUND WIRE RATED FOR 600V.
- 5. PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR ALL BRANCH CIRCUITS UTILIZING A NEUTRAL (I.E. 120V, 277V, ETC). PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR ALL FEEDERS REQUIRING A NEUTRAL (II.E. 19 HASE-3 WIRE, 3 PHASE-4 WIRE FEEDERS). SHARING OF NEUTRAL CONDUCTORS BETWEEN ANY CIRCUIT (BRANCH OR FEEDER) IS NOT PERMITTED. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED.
- PROVIDE STRUCTURAL FRAME SUPPORTS AS REQUIRED FOR DISCONNECT SWITCHES, PANELBOARDS, TRANSFORMERS, CONTACTORS, ETC. (IF DISCONNECT SWITCHES OR STARTERS ARE LOCATED ON EQUIRMENT HOUSINGS, COORDINATE LOCATIONS WITH EQUIPMENT SUPPLIER TO ENSURES SWITCHES ARE NOT INSTALLED ON EQUIPMENT ACCESS PANELS). MAINTAIN PROPER NATIONAL ELECTRICAL CODE CLEARANCES. IN ADDITION. MAINTAIN PROPER NECHANICAL WORKING LEARANCES FOR SERVICING OF EQUIPMENT.
- 7. PROVIDE ALL CULTING, PATCHING, AND ACCESS PANELS REQUIRED FOR ELECTRICAL WORK. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- 8. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. ALL OFFSETS, BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS REQUIRED FOR COMPLETE OPERATIONAL SYSTEMATICS.
- 2. ALL WORK AND COUPPIERT SHALL COMEY WITH ALL AUTHORITES HAVING, JURISDICTION, INCLUDING GUT NOT LIMITED TO THE 2018 LIFE SAFETY CODE, LINGEWINTERS, LABORATORY (LL), AND THE 2023 NATIONAL ELECTRICAL CODE (INC.), WORD-FEATOR SHOUGHED BY THE AUTHORITY HAVING JURISDICTION TO BRING THE SPACE LIMIDERS CONTROL TO TO CODE SHALL EAR MEM EWITHOUT CONTROL CHARGE WHERE CONTROL TO COLUMENT SHALL GOVERN, DEVALUTIONS FROM THE CONTROL TO COLUMENTS REQUIRE AUTHORITY CONTROL OF CONTROL CHARGE WHERE CONTROL TO COLUMENT SHALL GOVERN, DEVALUTIONS FROM THE CONTROL TO COLUMENTS REQUIRE AUTHORITY CONTROL OF CONTROL CHARGE AUTHORITY CONTROL COLUMENT SHALL GOVERN, DEVALUTION, AUTHORITY CONTROL COLUMENT SHALL GOVERN DEVALUTION, AUTHORITY COLUMENT COLUMENT SHALL GOVERN DEVALUTION, AUTH
- 10. CONTRACTOR SHALL VERIFY ALL POINTS OF CONNECTION BEFORE COMMENCING WORK. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS, DEBRIS, AND RUBBISH FROM THE SITE AND LEGALLY DISPOSE OF IT.
- 11. A SET OF ELECTRICAL RECORDICOORDINATION DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE. ACTUAL LOCATIONS OF ALL EQUIPMENT, CONDUIT, ETC., AND ALL DEVIATIONS OF THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE MARKED ON THE RECORDICOORDINATION DRAWINGS, EACH TRADE SHALL REVIEW THE COORDINATION DRAWINGS AND RESOLVE ANY POTENTIAL CONFLICTS WITH OTHER TRADES PROFEN TO INSTALLING ANY PORTION OF THE NEW YORK.
- 12. WORK SHALL BE EXECUTED IN A GOOD WORKMANLIKE MANNER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR ALL CONDITION OF THE WORK UNDER THIS CONTRACT. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORKING DAY.
- 13. CONTRACTOR SHALL MAKE ALL FINAL EQUIPMENT CONNECTIONS AND PROVIDE THE NECESSARY DEVICES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
- 14. ARRANGE CONDUIT, WIRING, EQUIPMENT AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLARRANCE AND ACCESS CAREFULLY EXAMINE ALL CONTRACT DRAWNISS AND COORDINATE THE WORK WITH ALL TRADES, WHERE EXPARTMENTS ARE PROPOSED BECAUSE OF PELLO CONDITIONS OF OTHER CAUSE.
- 15. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL TRADE PERMITS. PLAN REVIEWS AND CERTIFICATES OF INSPECTION REQUIRED BY THE AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- 16. COST INCURRED FROM DAMAGES AS A RESULT OF THE CONTRACTOR'S WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. DAMAGES WILL NOT WARRANT COST OR DELAY CLAIMS.
- 17. CONTRACTOR SHALL COMPLY WITH LOCAL AND APPLICABLE CODES. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SHALL GOVERN, SHOULD A CONFLICT ARISE BETWEEN CONSTRUCTION DOCUMENTS AND APPLICABLE CODES, WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCING CODE AUTHORITIES.
- 18. ANY EXISTING ELECTRICAL WORK SHOWN ON THESE DRAWINGS IS INDICATED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE OWNER AND ENGINEER IN NO WAY WARRANT OR GUARANTEE EITHER THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. FINAL LOCATIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO THEIR OWN SATISFACTION.
- 19. THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. ROUTINGS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY THAT INTERFERENCES WILL NOT BE ENCOUNTERED. IF ANY DISCREPANCY IS DETECTED, THE CONTRACTOR SHALL BRING IT TO THE ENGINEER'S ATTENTION WITH RECOMMENDATIONS FOR APPROVAL.
- 20. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AGAINST FAULTY LABOR, MATERIALS AND WORKMANSHIP. TIME FOR THIS GUARANTEE SHALL BEGIN FROM THE DATE OF ACCEPTANCE OF THE COMPLETED WORK BY THE OWNER OR HIS APPOINTED REPRESENTATIVE.
- 21. THE CONTRACTOR SHALL REMOVE AND RENSTALL OR RELOCATE ANY MOVEABLE OBSTRUCTIONS THAT MAY IMPEDE WORK UNDER THIS CONTRACT, AT NO ADDITIONAL COST. THESE SHALL INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT, PPING, ANY SUPPORTING APPURTENANCES, CONDUIT, ETC. ANY CONSTRUCTION REQUIRING WORK STATED HEREIN, SHALL BE RECONNECTED AFTER THE END OF CONSTRUCTION TO PROVIDE A FLIFT VENDROUGH, STEELING AS FOUND PRIOR TO COMMENCENCE CONTRICT UNDO TO PROVIDE A FLIFT VENDROUGH AS THE ASSETTION OF THE PROVIDED AS THE ASSETTION OF THE ASSETTION OF
- 22. ALL CONDUIT LOCATED WITHIN FINISHED INTERIOR AREAS TO BE CONCEALED IN FINISHED INTERIOR WALLS. ALL SURFACE MOUNT RACEWAY SHALL BE INSTALLED ACCORDING TO NEC CODE AND ALL AUTHORITIES HAVING JURDICTION AND APPROVED BY ENGINEER / ARCHITECT / OWNER PRIOR TO INSTALLATION.
- 23. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.

SITE PLAN GENERAL NOTES

- PLAN REPRESENTS ENGINEER'S PROPOSED DESIGN. COORDINATE LOCATION AND INSTALLATION OF ELECTRICAL AND TELECOM SERVICE AND ALL RELATED DEVICES AND EQUIPMENT WITH OWNER AND
- UTILITY.
 UNDERGROUND SITE WORK: CONTRACTOR IS REQUIRED TO USE LINE LOCATOR TO IDENTIFY LOCATION(S) OF ALL EXISTING UTILITY LINES. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO ANY EXISTING UTILITY LINES CAUSED BY EXCAVATION AND SUBSEQUENT REPAIR OF
- DAMAGES TO ANY EXISTING UTILITY LINES CAUSED BY EXCAVATION AND SUBSEQUENT REPAIR OF UTILITY LINES.

 AS-BULT UNDERGROUND UTILITY DRAWINGS MUST BE PROVIDED SHOWING SPECIFIC LOCATIONS OF ALL UTILITIES BURIED ON THE ENTIRE SITE.

POWER GENERAL NOTES

CORRONATE LOCATIONS OF ALL DEVICES AND JUNCTION DODES WITH THE COMPMENT INSTALLER CONTRACTION SHALL ON INSTALLAND IN THE MEDITAL PROPERTY OF THE PROPERTY OF T

LIGHTING GENERAL NOTES

- REFER TO AGENT REFLECTED CELING PLANS FOR EXACT LOCATIONS OF ALL FIXTURES WITH ARCHITECTIONNER.

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 LECTRICAL CONTRACTOR TO PROVIDE ALL MECHANISM AND REQUIRES DONE ALL ACCESSORES AS REQUIRED FOR A REQUIRED FOR ALL PATCHES INSTALLAGE IN SOLD CELING. PROVIDE SLOPED-CELING ADAPTORS AS REQUIRED FOR ALL PATCHES INSTALLAGE IN SOLD CELING. PROVIDE SLOPED-CELING ADAPTORS AS REQUIRED FOR ALL PATCHES INSTALLAGE SINGH AS DOTS. SCREWS, OR RIVETS, CLEPS DENTIFIED FOR USE WITH THE TYPE OF CELING FRAMING MISSIES OF ADAPTORS AND FIXTURES SHALL BE PRINTITED LAL FOUR SINGE OF PRIVILES SHALL BE FASTENED TO CELING FRAMING MISSIES REFERENCE IN EL. ARTICLE 410-308).

 MANUFACTURES REFERENCE IN EL. ARTICLE 410-308).

- MANUFACTURERS: REFER TO LIGHTING FORTURE SCHEDULE AND SPECIFICATIONS.
 ALL LAMPS ARE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY
 NOTEO OTHERWISE (THIS APPLIES TO ALL NEW FIXTURES), REPLACE ALL BURNT OUT OR DEFECTIV NOTED OTHERWISE (THIS APPLIES TO ALL NEW FIXTURES). REPLACE ALL BURNT OUT OR DEFECTIV LAMPS AND BALLAST WITHIN 6 MONTHS AFTER ACCEPTANCE OF SUBSTAINLA COMPLITION AT NO ADDITIONAL COST TO THE OWNER (THIS APPLIES TO NEW FIXTURES ONLY, NOT REUSEDIEXISTING
- FOXTURES).
 ALL FOXTURES SHALL BE FACTORY PAINTED-AFTER-FABRICATION TYPE.
 ALL LAMPS, DRIVERS AND ELECTRONIC BALLASTS SHALL MATCH BASE BUILDING STANDARD.

MOUNTING HEIGHT SCHEDULE		
WOONTING TILIGITI SCIILDOLL		
INTERIOR RECEPTACLES	18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE	
EXTERIOR RECEPTACLES	24" ABOVE FINISHED GRADE	
LIGHT SWITCHES	46" ABOVE FINISHED FLOOR	
PANELBOARDS	TOP OF PANEL TO BE 72" ABOVE FINISHED FLOOR	
LIGHT FIXTURES AND EXIT SIGNS	SEE LIGHT FIXTURE SCHEDULE	
CARD READER	48" ABOVE FINISHED FLOOR	
WALL MOUNTED OCCUPANCY SENSOR	46" ABOVE FINISHED FLOOR	
TELEPHONE, AND DATA JACKS	18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE	

MOUNTING HEIGHT SCHEDULE NOTES:

- 1. UNLESS INDICATED OTHERWISE, DEVICE MOUNTING HEIGHTS ARE TO CENTER LINE OF DEVICE
- 2. REFER TO FLOOR PLANS FOR DEVICES MOUNTED AT HEIGHTS DIFFERING FROM HEIGHTS SCHEDULED.
- 3. CARD READER MOUNTING HEIGHTS/LOCATIONS TO BE COORDINATED WITH ARCHITECT/OWNER.

20 AMPERE CIRCUITS					
120 VOLT		277 VOLT		MINIMUM	
WIRING LENGTH	WIRE SIZE	WIRING LENGTH	WIRE SIZE	CONDUIT SIZE	
0'-60'	#12	0'-130'	#12	3/4"	
60'-100'	#10	130'-210'	#10	3/4"	
100'-150'	#8	210'-340'	#8	3/4"	
150'-240'	#6	340'-540'	#6	3/4"	
OVER 240'	#4	OVER 540'	#4	1"	

SYSTEM, ATS, ENCL EQUIPMENT ENCLO

BRANCH CIRCUITS FROM PANELBOARDS HAVING 200% RATED NEUTRAL BUS SHALL HAVE 200% RATED NEUTRAL CONDUCTOR

00% RATED NEUTRAL CONDUCTOR.			

NEMA RATING OF ENCLOSURES	
TYPES FOR MISCELLANEOUS BOXES, PANELS, TRANSFORMERS, GENERATOR OSED BREAKERS, DISCONNECT SWITCHES AND ALL OTHER ELECTRICAL	
SURES NOT SPECIFICALLY INDICATED SHALL BE RATED IN ACCORDANCE WITH	

THE ENCLOSURE TYPE REFLECTED FOR INTERIOR AND EXTERIOR APPLICATIONS IS NOT APPLICABLE TO UTILITY COMPANY PROVIDED SERVICE EQUIPMENT.

APPLICABLE CODES AND STANDARDS

ALL ELECTRICAL MATERIALS, INSTALLATION, TESTING, CLEANING, SUPPORTS, AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH THE BELOW LISTED APPLICABLE CODES INCLUDE BUT ARE NOT

2021 VIRGINIA CONSTRUCTION CODE 2021 VIRGINIA BUILDING AND FIRE CODE RELATED REGULATIONS 2021 VIRGINIA ENERGY CONSERVATION CODE 2020 NATIONAL ELECTRICAL CODE (NFPA 70) 2021 LIFE SAFETY CODE (NFPA 101)

ELECTRICAL SCOPE OF WORK

- PROVIDE NEW ELECTRICAL SERVICE EQUIPMENT AND ELECTRICAL DISTRIBUTION FOR FUTURE EV CHARGING EQUIPMENT.
 PROVIDE BOLLARDS FOR PROTECTION OF ELECTRICAL EQUIPMENT.

PROVIDE NEW	WALL PACKS	FOR EXTERIOR	LIGHTING SYSTER	M AND CONTRO

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ELECTRICAL SHEET LIST			
SHEET NAME			
ELECTRICAL NOTES, LEGENDS, AND SCHEDULES			
ELECTRICAL SITE PLAN			
ELECTRICAL POWER PLAN - FIRST FLOOR			
ELECTRICAL POWER PLAN - EQUIPMENT PLATFORM			
ELECTRICAL LIGHTING PLAN - FIRST FLOOR			
ELECTRICAL LIGHTING PLAN - EQUIPMENT PLATFORM			
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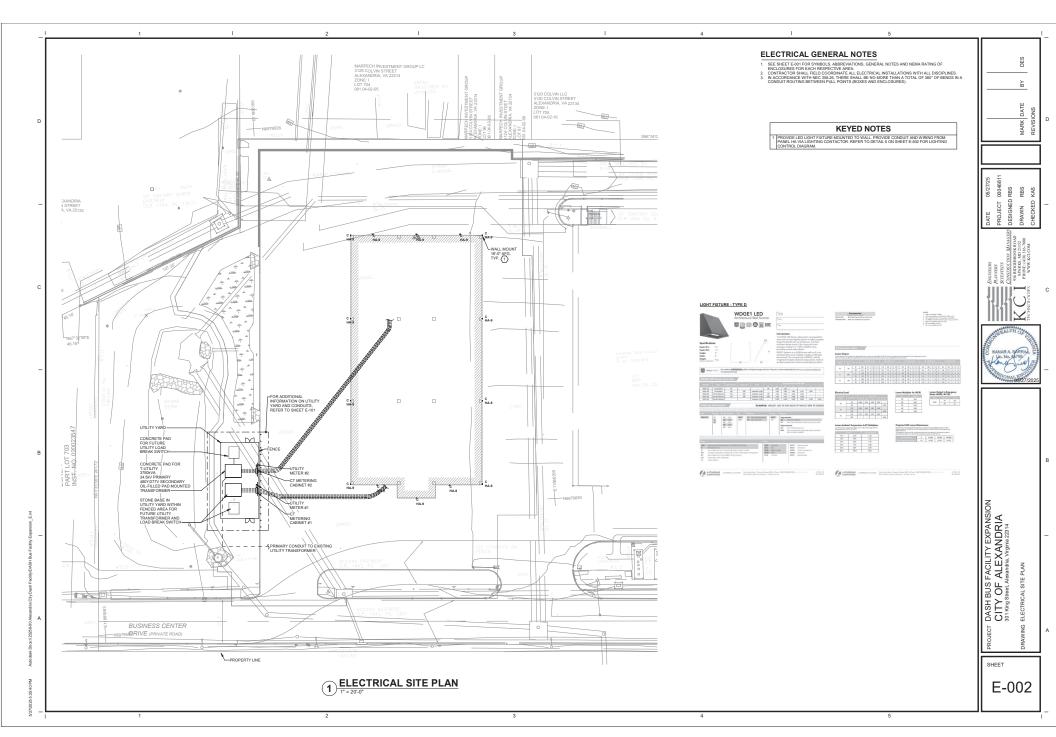
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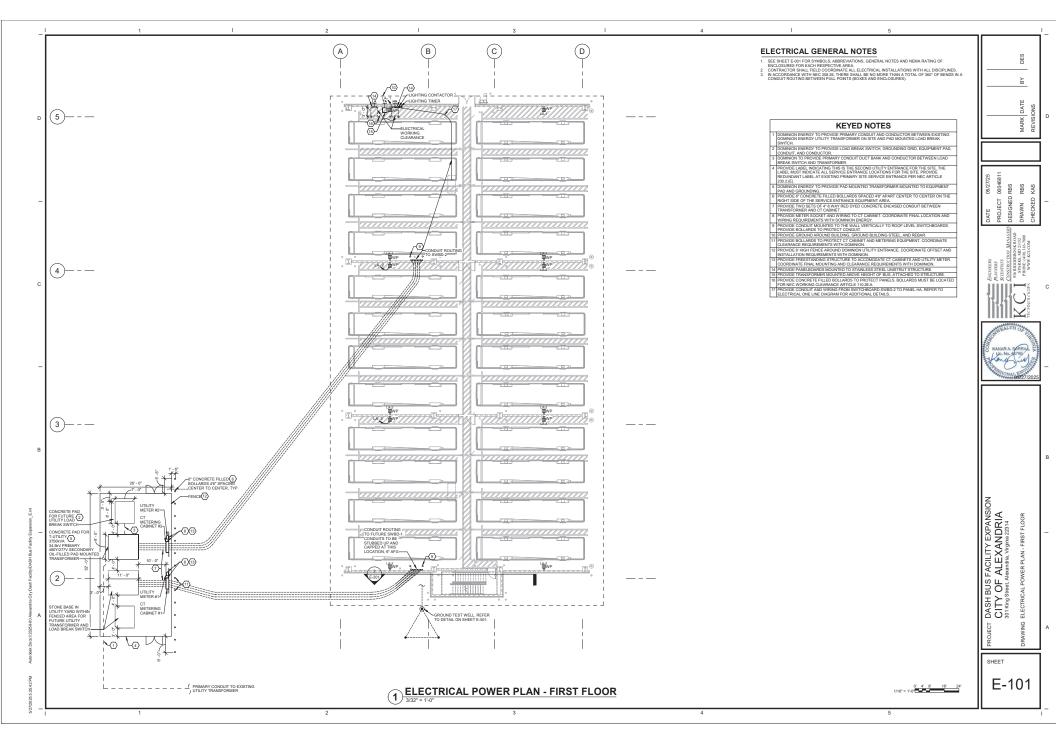
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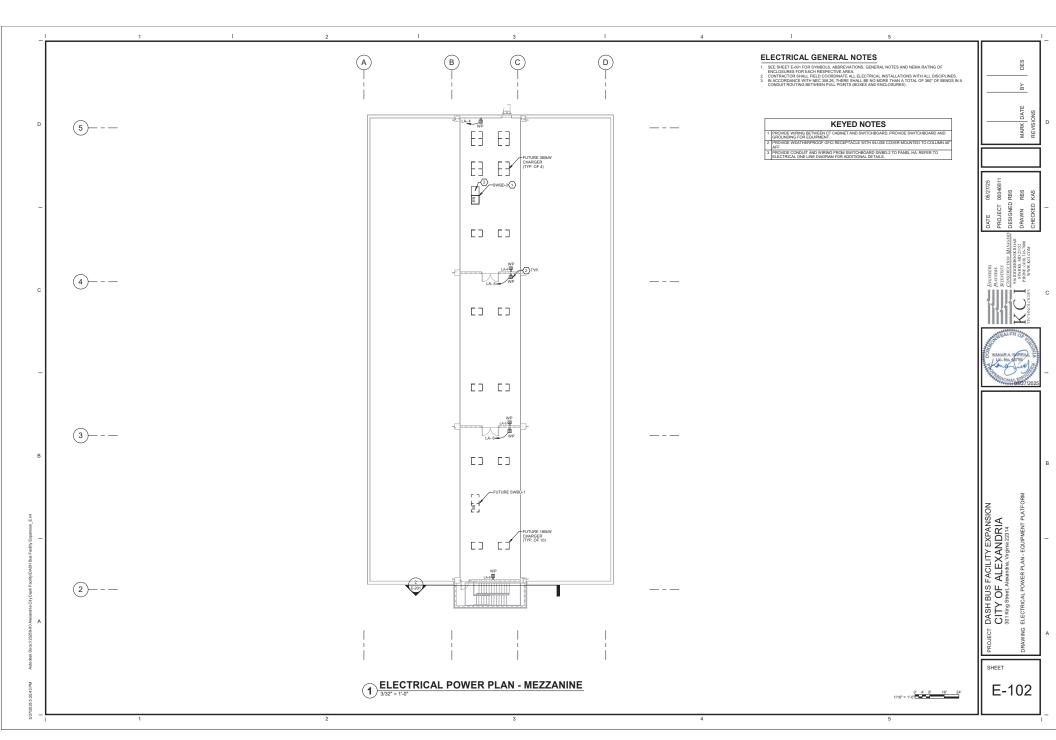
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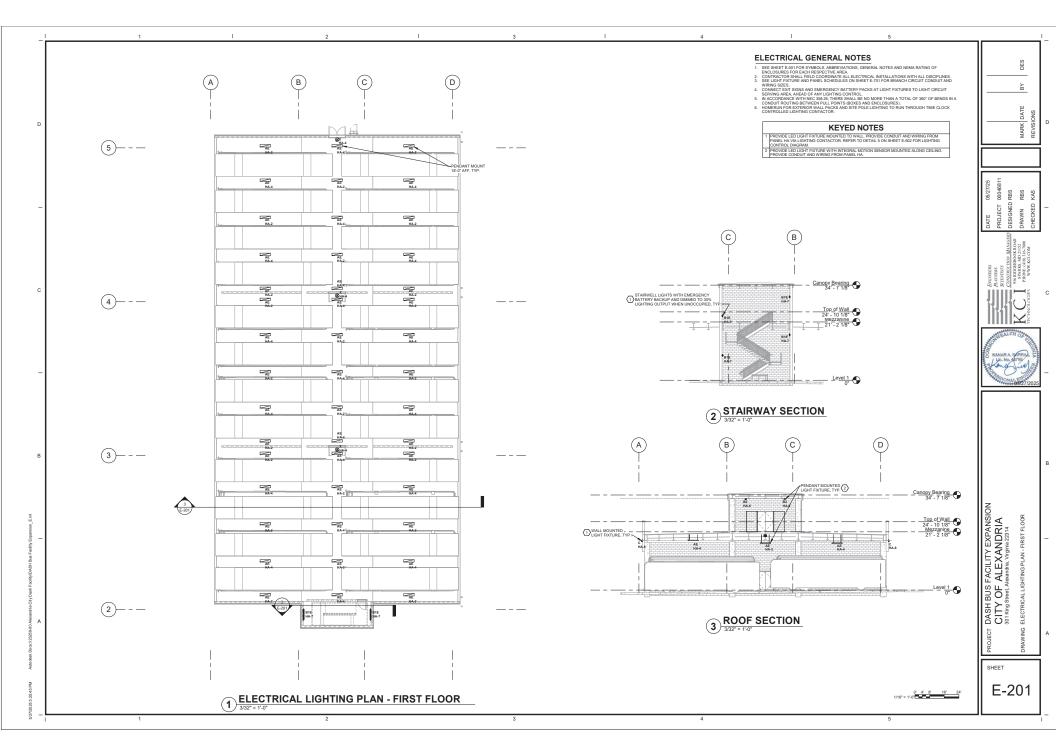
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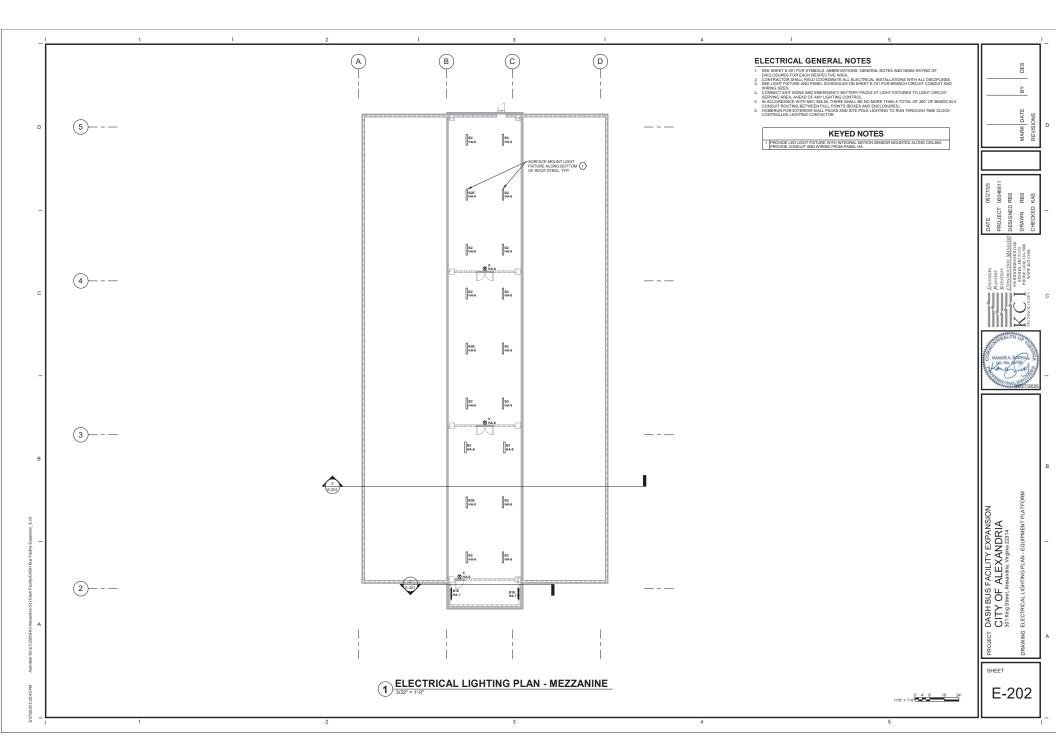
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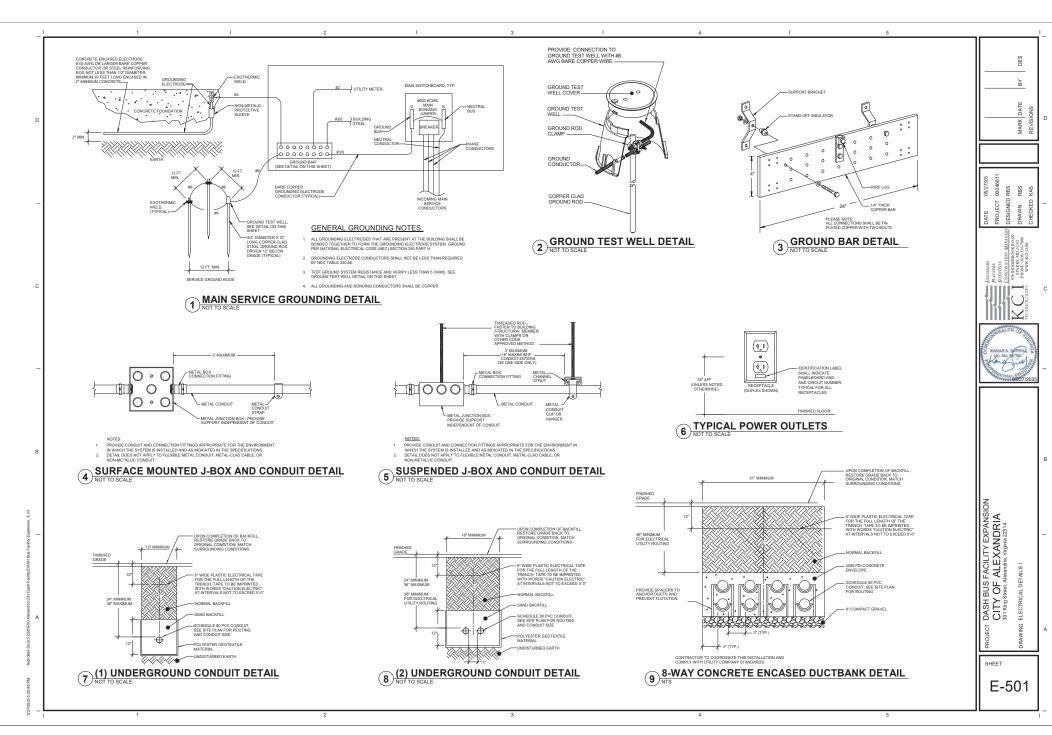


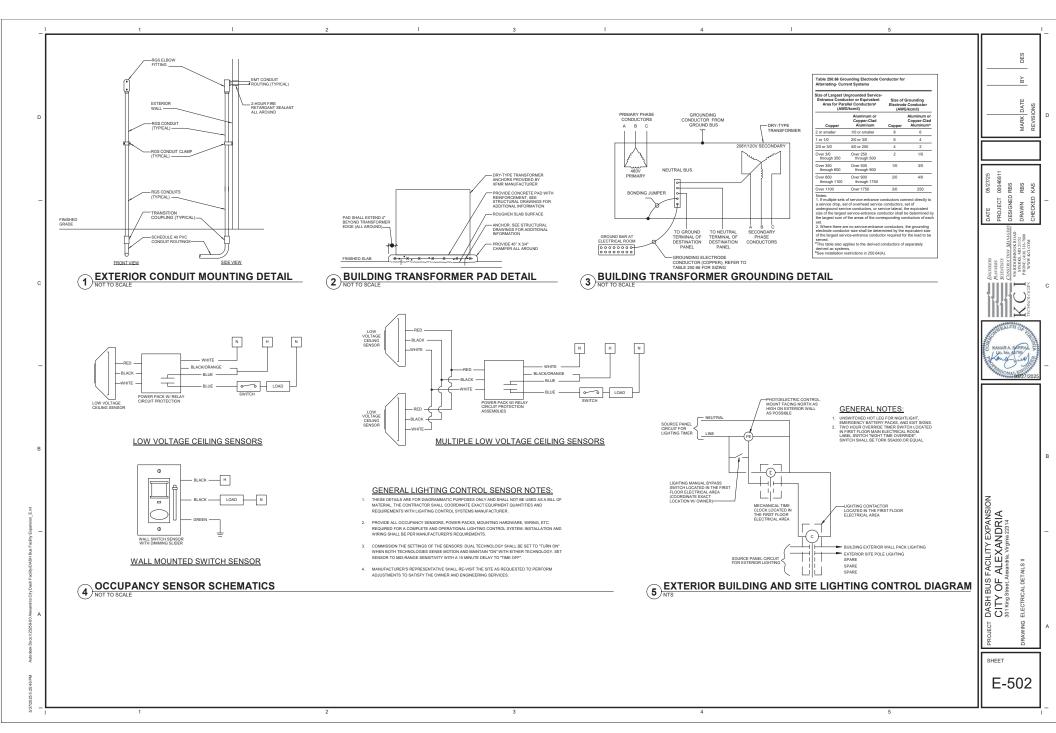


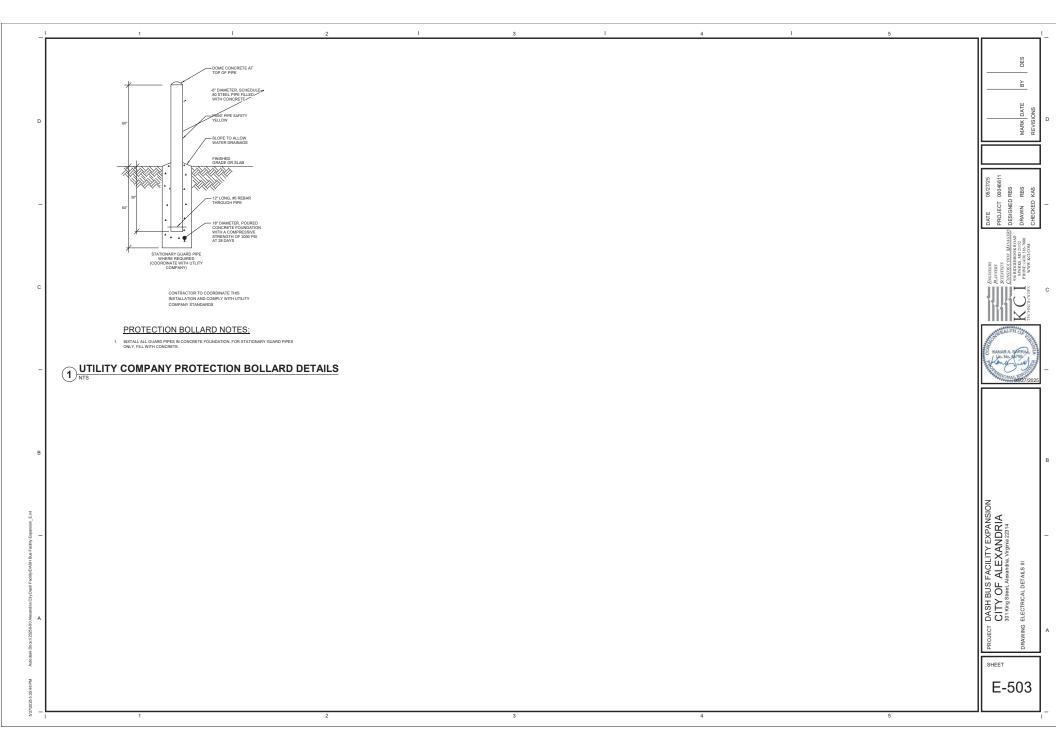


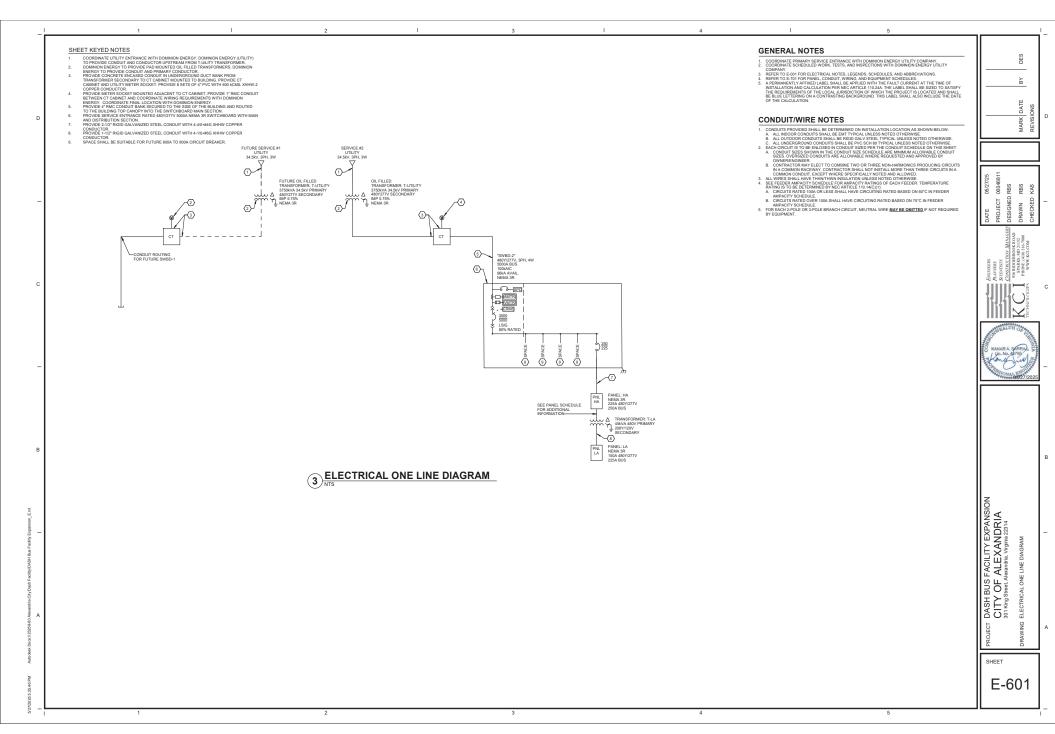












DES Branch Panel: HA A.I.C. Rating: 22000 A Mains Type: MCB Mains Rating: 225 A LIGHTING FIXTURE SCHEDULE Supply From: Mounting SURFACE Location: BUS BAYS 1 101 Volts: 480Y/277 Phases: 3 Wires: 4 DESCRIPTION DESCRI MODEL NUMBER
OHBL-30SE-A-UNV-L840-EL20W-CD-MS TRIP POLE TYPE CON...

70 A 3 11/4* CON... TYPE POLE TRIP CIRCUIT DESCRIPTION

3/4" 1 20 A LTG: BAYS 1

4 20 A LTG: BAYS 2 WIRE SIZE В WIRE SIZE СКТ 3-#4, 1-#4, 1-#8 FEM.48-1000LMMMFD.WD.MYQLT.GZ10-40K-90.C F LUBERT, DVP.PROFE ENCOURING THE UNIVERSITY OF THE UNIVERSAL OF THE UNIVERSITY OF THE UNIVERSAL OF THE UNIVERS MARK LTG: EXTERIOR BUILDING WDGE1-LED-P2-40K-80CRI-VW-MVOLT-SRM-LQM SERIES EXIT SIGN, EMERGENCY VERIFY FIXTURE SELECTION WITH ARCHITECT PRIOR TO PURCHASE. COORDINATE ALL COLORS AND FINISHES WITH ARCHITECT. WHERE DIMMING IS INDICATED, PROVIDE APPROPRIATE DIMMING POWER PACKS AS NEEDED. 05/27/25 00046811 RBS RBS KAS NOTES:

1. PROVIDE EMERGENCY FIXTURE WITH 90 MINUTE BATTERY BACKUP 6.3 4.9 1.3 DATE PROJECT (Circuit Breaker Legend: AF: Arc Fault Circuit Interrupter, GF: Ground Fault Circuit interrupter, IG: Isolated Ground, LO: Lock-On Clip, ST: Shunt Trip Notes: 1. All breakers 1004mp or less shall be rated for 79°080°C wire termination. Breakers rated for only 60°C wire termination shall not be used. All breakers greater than 1004mp shall be rated for 79°C termination. N.E. C. Article 110.14(C)(1). 2. For 3-pole breaker, provide 3 wires + grid where neutral is not used or nred. Similarly for 3-pole birr, provide 2 wires + grid if neut. Is not red. 3. All fire alarm circuit protective devices shall be included with not for [c. red circuit breaker]. All fire alarm circuit protective devices shall be included with not for [c. red circuit breaker]. Load Classification Connected Load Demand Factor Estimated Demand Panel Totals Total Conn. Load: 12530 VA Total Est. Demand Current: 15. Branch Panel: LA Supply From: TA Mounting SURFACE Location: BUS BAYS 1 101 A.I.C. Rating: 22000 A Mains Type: MCB Mains Rating: 150 A TRIP POLE TYPE CON... WIRE SIZE A B C WIRE SIZE CON... TYPE POLE TRIP скт СКТ 1 REC: BAY 1 3 REC: BAY 3 5 REC: MEZZ. BAY 2 7 20 A 1 3/4" 1.#12, 1.#12, 1.#12 20 A 1 3/4" 1.#10, 1.#10, 1.#10 20 A 1 3/4" 1.#12, 1.#12, 1.#12 3/4" 1 20 A REC: BAY 2 3/4" 1 20 A REC: MEZZ. BAY 1 3/4" 1 20 A REC: MEZZ. BAY 3 В Total Load (kVA) Circuit Breaker Legend:

AF: Are Fault Circuit Interrupter, GF: Ground Fault Circuit interrupter, IG: Isolated Ground, LO: Lock-On Clip, ST: Shunt Trip
Notice: NOMEX.

All breakers 100/kmp or less shall be rated for 79'80°C wire termination. Breakers rated for only 60°C wire termination shall not be used. All breakers greater than 100/kmp shall be rated for 79°C termination. N.E.C. Article 110.14(C)(1).

2. For 3 pole breaker, provide 3 wire = 91 wines enouthal is not used or nepd. Similarly for 2 pole bix, provide 2 wires + grid if neut. is not nepd.

3. All fire salam consults between devices the little in indicated with net 64 gen of crucial breakers! DASH BUS FACILITY EXPANSION CITY OF ALEXANDRIA 301 King Street, Alexandria, Virginia 22314 Load Classification Total Conn. Load: 3240 VA Total Est. Demand: 3240 VA Total Conn. Current: 9 A Total Est. Demand Current: 9 A SHEET E-701