NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB NO. 2025-IFB-1007262
Albemarle County Public Schools
2775 Hydraulic Rd, Charlottesville, VA 22901
STATE PROJECT NO. 002-88-01-100



PROJECT TEAM

QUINN EVANS
Architect & Landscape Architect

1840 West Broad Street
Suite 400
Richmond, Virginia 23220
v 804.788.4774

TIMMONS GROUP
Civil Engineer

608 Preston Ave STE 200
Charlottesville, VA 22903
v 434.295.5624

2RW
Mechanical, Electrical, Plumbing Engineer

100 10th St NE
Charlottesville, VA 22902
v. 434.296.2116

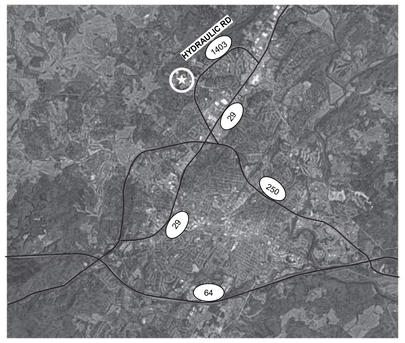
DUNBAR PLLC
Structural Engineer

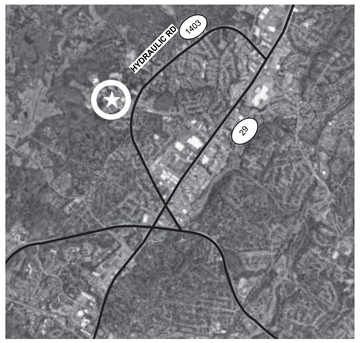
1025 Boulders Parkway
Suite 310
Richmond, Virginia 23225
v. 804.272.3916

FOODSERVICE CONSULTANTS STUDIO
Foodservice Consultant

3420 Pump Road #158
Henrico, Virginia 23233
v. 804.550.2090

VICINITY MAPS





NOTE:
VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED

PROJECT DATA

THIS BUILDING IS DESIGNED TO BE COMPLIANT WITH THE 2018 EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

BUILDING USE GROUP:	E
CONSTRUCTION TYPE:	IIB
SEISMIC DESIGN CATEGORY	B
AUTOMATIC FIRE SUPPRESSION	FULLY SPRINKLERED PER NFPA-13

FIRE RESISTANCE RATING

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS (INTERIOR)	0 HOURS
BEARING WALLS (EXTERIOR)	0 HOURS
NON-BEARING WALLS (INTERIOR)	0 HOURS
NON-BEARING WALLS (EXTERIOR)	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS
SHAFT ENCLOSURES	1 HOUR AT ELEVATOR AND EGRESS STAIRS

BUILDING SQUARE FOOTAGE
TWO STORIES

LEVEL 1:	36,000 GSF
LEVEL 2:	23,000 GSF
BASEMENT:	4,000 GSF
TOTAL GSF:	62,000 GSF

BUILDING HEIGHT

MAXIMUM CODE ALLOWED: 75'
ACTUAL BUILDING HEIGHT: 47' 10 1/2" (AT LIMITED 3-STORY AREA)

MAXIMUM OCCUPANCY PER LEVEL:

LEVEL 1:	775
LEVEL 2:	547
BASEMENT:	12
TOTAL CODE OCCUPANCY:	1,334

PROGRAM OCCUPANCY:

STUDENTS:	500
STAFF:	34
TOTAL PROGRAM OCCUPANCY:	534

NOTE:
1. EXIT ACCESS STAIRWAYS THAT SERVE ONLY TWO ADJACENT STORIES ARE NOT REQUIRED TO BE ENCLOSED WITH A SHAFT ENCLOSURE PER VCC 1019.3. EXIT ACCESS STAIRWAYS MAY SERVE AS AN EXIT ACCESS COMPONENT IN A MEANS OF EGRESS SYSTEM PER VCC 1019.1.
2. PER VCC 1010.2, GATES SERVING AS A MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS FOR DOORS. THE GATE AT THE EXTERIOR COURTYARD SHALL INCLUDE ONE LEAF THAT IS A MAX OF 4' WIDE AND WILL BE EQUIPPED WITH A PANIC DEVICE.

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

NOT FOR CONSTRUCTION

Albemarle County Public Schools

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No	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: KS
DRAWN: BG, EW, AJ, EC

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

COVER SHEET

G001

ALBEMARLE COUNTY PUBLIC SCHOOLS
NEW CONSTRUCTION HIGH SCHOOL CENTER II

SITE PLAN
SDP 202400016

COUNTY OF ALBEMARLE, VIRGINIA

10/08/2024

SITE DATA:

TAX MAP PARCEL: 06000-00-00-078A0

PARCEL AREA: 216.691 ACRES

LIMITS OF DISTURBANCE: 11.73 ACRES

ZONING: R10 - RESIDENTIAL, RA - AGRICULTURAL (ZMA202300008)

SEE SPECIAL EXCEPTION SE202300039 AND PROFFERS (C1.2)

MAGISTERIAL DISTRICT: JACK JOUETT

SOURCE OF BOUNDARY AND TOPOGRAPHY: TIMMONS GROUP.
608 PRESTON AVENUE, SUITE 300
CHARLOTTESVILLE, VA 22903
(434) 327-1681

SOURCE TOPOGRAPHY: TIMMONS GROUP, MARCH, 12, 2020

DATUM: HORIZONTAL: NAD83 VIRGINIA STATE GRID SOUTH ZONE
VERTICAL: NAVD88 ESTABLISHED THROUGH LEICA SMARTNET

MISS UTILITY TICKET NO.(s): B004200891 & B004200841

UTILITIES
WATER SUPPLY: ACSA
SANITARY SEWER: ACSA

WATERSHED: IVY CREEK SUPPLY WATERSHED

ZONING SITE REQUIREMENTS:

SETBACKS	REQUIRED
R-10 FRONT:	5' MIN. / NO MAX. PER SPECIAL EXCEPTION SE202300039
R-10 SIDE:	5' MIN. / NO MAX.
R-10 REAR:	20' MIN. / NO MAX.
R-A FRONT:	75' MIN. / NO MAX
R-A SIDE:	25' MIN. / NO MAX
R-A REAR:	35' MIN. / NO MAX

USE
PRESENT ALBEMARLE HIGH SCHOOL (AHS) & BUILDING SERVICES
PROPOSED ALBEMARLE HIGH SCHOOL (AHS) & HIGH SCHOOL CENTER II (HSC II)

PARKING
EXISTING SPACES FOR AHS: 530 (7 ADA SPACES)
PROPOSED TOTAL SPACES: 670 (15 ADA SPACES)
AHS PROPOSED SPACES: 543
HSC II PROPOSED SPACES: 127
SPACES ADDED: 140 (8 ADA SPACES)

REQUIRED HSC II SPACES: 127 (SEE SUMMARY OF PARKING REQUIREMENTS FROM ZMA202300008 ON C1.2)

MAXIMUM BUILDING HEIGHT: 75 FT
PROPOSED BUILDING HEIGHT: 47' 10 ½"
PROPOSED BUILDING AREA: 62,000 GSF

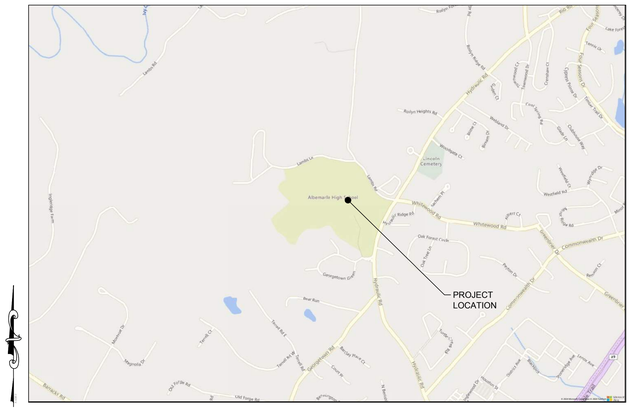
IMPERVIOUS AREA (WITHIN PROJECT LIMITS)
EXISTING: 5.31 ACRES
PROPOSED: 6.86 ACRES

WETLAND IMPACTS: NONE

MANAGED SLOPES LOCATED WITHIN THE PARCEL ARE SHOWN ON SHEETS C2.0 AND C5.0.

THERE ARE NO CONSTRUCTION ACTIVITIES PROPOSED WITHIN THE 100-YR FLOODPLAIN.

NOTE:
VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED



VICINITY MAP
SCALE: 1" = 1000'

OWNER:
ALBEMARLE COUNTY SCHOOL BOARD
401 MCINTIRE RD
CHARLOTTESVILLE, VA 22902
CONTACT: MATT WERTMAN
TELEPHONE: 434 977-4511
FAX: (434) 979-0698

ENGINEER OF RECORD:
TIMMONS GROUP
608 PRESTON AVE.
CHARLOTTESVILLE, VA 22903
CONTACT: JONATHAN SHOWALTER, P.E.
TELEPHONE: 434-327-1681

Sheet List Table

Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	EXISTING CONDITIONS OVERALL PLAN
C0.2	OVERALL SITE LAYOUT
C1.0	NOTES & DETAILS
C1.1	NOTES & DETAILS
C1.2	NOTES & DETAILS
C2.0	EXISTING CONDITIONS PLAN
C2.1	EXISTING CONDITIONS PLAN
C2.2	EXISTING CONDITIONS PLAN
C2.3	EXISTING CONDITIONS PLAN
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C2.5	DEMOLITION PLAN
C2.6	DEMOLITION PLAN
C2.7	DEMOLITION PLAN
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C4.2	SITE PLAN
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C5.0	GRADING & DRAINAGE PLAN
C5.1	GRADING & DRAINAGE PLAN
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C5.4	INLET DRAINAGE AREA MAP
C6.0	STORMWATER MANAGEMENT PLAN
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C6.2	STORMWATER MANAGEMENT NOTES & DETAILS
C6.3	LANE STORMKEEPER NOTES & DETAILS
C6.4	LANE STORMKEEPER NOTES & DETAILS
C7.0	STORM PROFILES
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L1.0	IRRIGATION PLAN
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L3.0	REVEGETATION NOTES
L3.1	REVEGETATION NOTES

TOTAL = 43 SHEETS

SIGNATURE PANEL:

DEPARTMENT OF COMMUNITY DEVELOPMENT:	APPROVAL	DATE
PLANNING & ZONING		
ENGINEERING		
INSPECTIONS		
ARCHITECTURAL REVIEW BOARD		
DEPARTMENT OF FIRE AND RESCUE		
ALBEMARLE COUNTY SERVICE AUTHORITY		
VIRGINIA DEPARTMENT OF TRANSPORTATION		
HEALTH DEPARTMENT		

QUINN EVANS
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v 804.788.4774
QUINNEVANS.COM

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

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No.	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

COVER SHEET

C0.0

PATH & FILENAME:
PLOTTING DATE & TIME:

SEE SHEET C2.4

SEE SHEET C2.3

SEE SHEET C2.2

SEE SHEET C2.1

7 PARKING SPACES (AHS)

CONTRACTOR TO SALVAGE AND WEATHERPROOF PER MANUFACTURES DIRECTIONS FOR LONG TERM STORAGE. RELOCATE FOR STORAGE TO ANOTHER PROPERTY WITHIN 30 MILES AT OWNERS DIRECTION

EXISTING 8 CLASSROOM MODULAR TRAILER TO REMAIN

ALBEMARLE HIGH SCHOOL (AHS) MAIN BUILDING

ZONING BOUNDARY PER ZMA202300008

217 PARKING SPACES (AHS)

7 PARKING SPACES (AHS)

3 PARKING SPACES

227 PARKING SPACES (AHS)

69 PARKING SPACES (AHS)

CONTRACTOR TO SALVAGE AND WEATHERPROOF PER MANUFACTURES DIRECTIONS FOR LONG TERM STORAGE. CONTRACTOR TO RELOCATE FOR STORAGE ON LAMBS LANE PROPERTY AT OWNERS DIRECTION.

81 PARKING SPACES (BUILDING SERVICES)

ZONING BOUNDARY PER ZMA202300008

LAMBS ROAD

LAMBS LANE

WHITEWOOD RD.

HYDRAULIC RIDGE RD.

STATE ROUTE 743 – HYDRAULIC RD.
VAR. WIDTH RW (VDOT PRIM.)
DB. 1478, PG. 537

STATE ROUTE 743 - HYDRAULIC RD.
VAR. WIDTH RW (VDOT PRIM.)
DB. 1478, PG. 537

UNNAMED ENTRANCE ROAD AKA "GEORGETOWN GREEN"
VAR. WIDTH RW
DB. 440, PG. 164
& VDOT PROJ. 0743-002-183

GEORGETOWN GREEN

SOCCER FIELD

SOCCER FIELD

TENNIS COURTS

TENNIS COURTS

TENNIS COURTS

FOOTBALL FIELD

BASKETBALL COURT

MULTI-LEVEL BUILDING "BOYS & GIRLS CLUB"

MULTI-LEVEL GLASS AND MASONRY BUILDING "ALBEMARLE HIGH SCHOOL" 2775 HYDRAULIC RD

ALBEMARLE COUNTY PUBLIC SCHOOLS 401 MCINTIRE RD CHARLOTTESVILLE, VA 22902

GIS DATA SURVEY DATA

N51°48'29"W 710.84'

S52°00'14"W 386.15'

N51°48'29"W 188.55'

S53°17'26"W 54.87'

R=10'

SCALE 1"=60'
0 60' 120'

PATH & FILENAME:
PLOTTING DATE & TIME:

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EXISTING CONDITIONS OVERALL PLAN

C0.1



PATH & FILENAME:
PLOTTING DATE & TIME:

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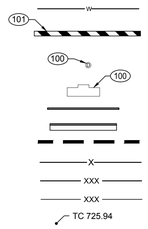
OVERALL SITE LAYOUT

C0.2

SITE PLAN LEGEND



GRADING

TC = TOP OF CURB
EP = EDGE OF PAVEMENT
TW = TOP OF WALL
BW = BOTTOM OF WALL
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
HP = HIGH POINT

ALBEMARLE COUNTY
FINAL PLAN GENERAL NOTES

General Construction Notes

1. Prior to any construction within any existing public right-of-way, including connection to any existing road, a permit shall be obtained from the Virginia Department of Transportation (VDOT). This plan as drawn may not accurately reflect the requirements of the permit. Where any discrepancies occur the requirements of the permit shall govern.
2. All materials and construction methods shall conform to current specifications and standards of VDOT unless otherwise noted.
3. Erosion and siltation control measures shall be provided in accordance with the approved erosion control plan and shall be installed prior to any clearing, grading or other construction.
4. All slopes and disturbed areas are to be fertilized, seeded and mulched.
5. The maximum allowable slope is 2:1 (horizontal:vertical). Where reasonably obtainable, lesser slopes of 3:1 or better are to be achieved.
6. Paved, rip-rap or stabilization mat lined ditch may be required when in the opinion of the County Engineer, or designee, it is deemed necessary in order to stabilize a drainage channel.
7. All traffic control signs shall conform with the Virginia Manual for Uniform Traffic Control Devices.
8. Unless otherwise noted all concrete pipe shall be reinforced concrete pipe – Class III.
9. All excavation for underground pipe installation must comply with OSHA Standards for the Construction Industry (29 CFR Part 1926).

Albemarle County Service Authority — Serving & Conserving
168 Spotnap Road Charlottesville, VA 22911 (434) 977-4511

Hydrant Flow Test Report

Date of Report: 2/23/2024

Location	2751 Hydraulic Road	**Pressure Zone**	Stillhouse
Date and Time of Test	2/22/2024 11:30:00 AM		
Minutes of Flow	2		
Pipe Size (Inches)	8		
Pressure Hydrant	10248		
Static Pressure (psi)	91.3		
Residual Pressure (psi)	82.4		

☑ Q20 Looped ☐ Q20 Multiple Inline Hydrants ☐ Q20 Single Flow ☐ Sprinkler Test Single Flow

Flow Hydrant #1	10249	**Pitot Pressure #1 (psi)**	67.4	**Yellow 1** ☐	**Test Flow 1**	1147
Flow Hydrant #2	13613	**Pitot Pressure #2 (psi)**	37.9	**Yellow 2** ☑	**Test Flow 2**	1038
Flow Hydrant #3		**Pitot Pressure #3 (psi)**		**Yellow 3** ☐	**Test Flow 3**	0

Total Estimated Flow (gpm)	2185
AWWA Q20 Calculation (gpm)	

(No value in Q20 indicates insufficient pressure drop for Q20 OR a sole sprinkler test.)

Comments

Hydrants opened all the way. 10 pound residual drop could not be achieved resulting in no Q20 calue.

For method of calculating pitot flow with a red Pollard diffuser: see eq. 13, Walski and Lutes article 1990 Journal Management and Operations AWWA. For yellow Pollard diffusers, a best fit third order polynomial equation of the Pollard flow vs. pitot pressure gauge is used.

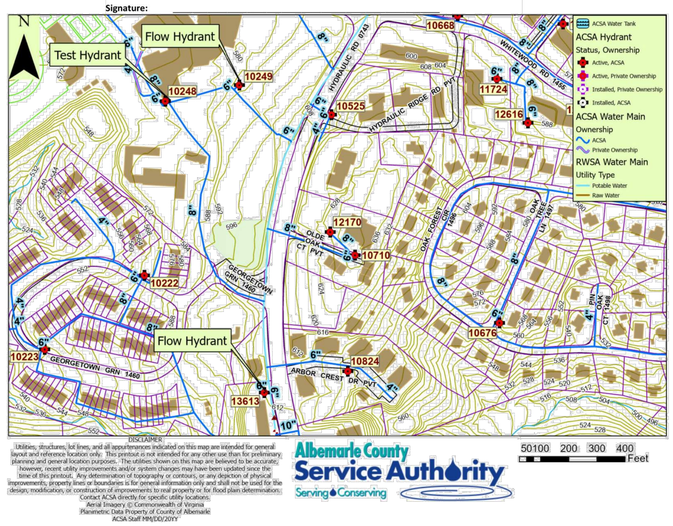
Estimated Consumption (gal) 4370

For use for water audit

☐ Modeling Purposes Only

Signature: Allan Bryant

Signature:



DISCLAIMER:
Utilities, structures, lot lines, and all appurtenances indicated on this map are intended for general layout and reference location only. This printout is not intended for any other use than for preliminary planning and general location purposes. The utilities shown on this map are believed to be accurate, however, recent utility improvements and/or system changes may have been updated since the time of this printout. Any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination. Contact ACSA directly for specific utility locations.
Aerial Imagery © Commonwealth of Virginia
Planimetric Data Property of County of Albemarle
ACSA Staff MM/DD/20YY

Albemarle County Service Authority — Serving & Conserving

ACSA AVAILABLE FIRE FLOW INFORMATION

NO SCALE

ACSA GENERAL WATER & SEWER CONDITIONS

JUNE 27, 2019

1. WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA) INSPECTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE PROPER ACSA OFFICIALS AT THE START OF THE WORK.
2. THE ALBEMARLE COUNTY SERVICE AUTHORITY SHALL HAVE ACCESS TO USE THE AIRSPACE ABOVE THE LOCATIONS OF CONSTRUCTION FOR THE FLIGHT OF UNMANNED AERIAL VEHICLES FOR THE PURPOSE OF IMAGERY COLLECTION.
3. THE LOCATION OF EXISTING UTILITIES ACROSS THE LINE OF THE PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, LOCATE ALL UNDERGROUND LINES AND STRUCTURES, AS NECESSARY.
4. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS, AS ADOPTED BY THE ACSA.
5. DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY (1-800-552-7001).
7. ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM OF THREE AND A HALF (3.5) FEET OF COVER MEASURED FROM THE TOP OF PIPE, OVER THE CENTERLINE OF PIPE. THIS INCLUDES ALL FIRE HYDRANT LINES, SERVICE LATERALS AND WATER LINES, ETC.
8. ALL WATER AND SEWER APPURTENANCES ARE TO BE LOCATED OUTSIDE OF ROADSIDE DITCHES.
9. VALVES ON DEAD END LINES SHALL BE RODDED TO PROVIDE ADEQUATE RESTRAINT FOR THE VALVE DURING A FUTURE EXTENSION OF THE LINE.
10. TREES ARE NOT PERMITTED IN THE ACSA EASEMENT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE NO-LEAD REGULATION REGARDING BRASS FITTINGS EFFECTIVE JANUARY 4, 2014 (SENATE BILL 3874 WHICH AMENDS THE SAFE DRINKING WATER ACT).
12. THE SEWER LATERAL BEYOND THE CONNECTION AT THE SEWER MAIN SHALL BE PRIVATE. THE SEWER LATERAL STUB-OUT SHALL UNDERGO THE ACSA LOW-PRESSURE AIR TEST TO SATISFY COUNTY TESTING REQUIREMENTS. VISUAL INSPECTION OF THE SEWER LATERAL STUB-OUT
SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
13. THE SEWER LATERAL BEYOND THE CONNECTION AT A MANHOLE SHALL BE PRIVATE. VISUAL INSPECTION AND PRESSURE TESTING OF THE SEWER LATERAL SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
14. THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE IS PRIVATE. VISUAL INSPECTION AND TESTING OF THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
15. ALL FLUSHING OF FIRE SPRINKLER MAINS SHALL NOT OCCUR UNTIL APPROVAL IS GIVEN BY THE ACSA.

BLASTING NOTES

1. BLASTING SHALL NOT BE PERMITTED ON THIS PROJECT.

ALBEMARLE COUNTY STORMWATER MANAGEMENT NOTES

1. ALL DAMS AND CONSTRUCTED FILL TO BE WITHIN 95% OF MAXIMUM DRY DENSITY AND 2% OF OPTIMUM MOISTURE CONTENT. ALL FILL MATERIAL TO BE APPROVED BY A GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING CONSTRUCTION OF DAMS.
2. PIPE AND RISER JOINTS ARE TO BE WATERTIGHT WITHIN STORMWATER MANAGEMENT FACILITIES.
3. FOR TEMPORARY SEDIMENT TRAPS OR BASINS WHICH ARE TO BE CONVERTED TO PERMANENT STORMWATER MANAGEMENT FACILITIES; CONVERSION IS NOT TO TAKE PLACE UNTIL THE SITE IS STABILIZED, AND PERMISSION HAS BEEN OBTAINED FROM THE COUNTY EROSION CONTROL INSPECTOR.

GENERAL CONSTRUCTION NOTES FOR EROSION AND SEDIMENT CONTROL

1. 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.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. 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 EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
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 AUTHORITY.
7. 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.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL FILL MATERIAL TO BE TAKEN FROM AN APPROVED, DESIGNATED BORROW AREA.
11. ALL WASTE MATERIALS SHALL BE TAKEN TO AN APPROVED WASTE AREA. EARTH FILL SHALL BE INERT MATERIALS ONLY, FREE OF ROOTS, STUMPS, WOOD, RUBBISH, AND OTHER DEBRIS.
12. BORROW OR WASTE AREAS ARE TO BE RECLAIMED WITHIN 7 DAYS OF COMPLETION PER ZONING ORDINANCE SECTION 5.1.28.
13. ALL INERT MATERIALS SHALL BE TRANSPORTED IN COMPLIANCE WITH SECTION 13-301 OF THE CODE OF ALBEMARLE.
14. BORROW, FILL OR WASTE ACTIVITY INVOLVING INDUSTRIAL-TYPE POWER EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 9:00PM.
15. BORROW, FILL OR WASTE ACTIVITY SHALL BE CONDUCTED IN A SAFE MANNER THAT MAINTAINS LATERAL SUPPORT, OR ORDER TO MINIMIZE ANY HAZARD TO PERSONS, PHYSICAL DAMAGE TO ADJACENT LAND AND STRUCTURES/IMPROVEMENTS, AND DAMAGE TO ANY PUBLIC STREET BECAUSE OF SLIDES, SINKING, OR COLLAPSE.
16. THE DEVELOPER SHALL RESERVE THE RIGHT TO INSTALL, MAINTAIN, REMOVE OR CONVERT TO PERMANENT STORMWATER MANAGEMENT FACILITIES WHERE APPLICABLE ALL EROSION CONTROL MEASURES REQUIRED BY THIS PLAN REGARDLESS OF THE SALE OF ANY LOT, UNIT, BUILDING OR OTHER PORTION OF THE PROPERTY.
17. TEMPORARY STABILIZATION SHALL BE TEMPORARY SEEDING AND MULCHING. SEEDING IS TO BE AT 75 LBS/ACRE, AND IN THE MONTHS OF SEPTEMBER TO FEBRUARY TO CONSIST A 50/50 MIX OF ANNUAL RYEGRASS AND CEREAL WINTER RYE, OR IN MARCH AND APRIL TO CONSIST OF ANNUAL RYE, OR MAY THROUGH AUGUST TO CONSIST OF GERMAN MILLET. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
18. PERMANENT STABILIZATION SHALL BE LIME AND FERTILIZER, PERMANENT SEEDING, AND MULCH. AGRICULTURAL GRADE LIMESTONE SHALL BE APPLIED AT 90LBS/1000SF, INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. FERTILIZER SHALL BE APPLIED AT 1000LBS/ACRE AND CONSIST OF A 10-20-10 NUTRIENT MIX. PERMANENT SEEDING SHALL BE APPLIED AT 180LBS/ACRE AND CONSIST OF 95% KENTUCKY 31 OR TALL FESCUE AND 0-5% PERENNIAL RYEGRASS OR KENTUCKY BLUEGRASS. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
19. MAINTENANCE: ALL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. ANY DAMAGE OR CLOGGING TO STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY. SILT TRAPS SHALL BE CLEANED WHEN 50% OF THE WET STORAGE VOLUME IS FILLED WITH SEDIMENT. ALL SEEDED AREAS SHALL BE RESEEDED WHEN NECESSARY TO ACHIEVE A GOOD STAND OF GRASS. SILT FENCE AND DIVERSION DYKES WHICH COLLECT SEDIMENT TO HALF THEIR HEIGHT MUST BE CLEANED AND REPAIRED IMMEDIATELY.
20. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION, WHEN MEASURES ARE NO LONGER NEEDED, SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
21. PERMANENT VEGETATION SHALL BE INSTALLED ON ALL DENUDED AREAS WITHIN NINE (9) MONTHS AFTER THE DATE THE LAND DISTURBING ACTIVITY COMMENCED. (WATER PROTECTION ORDINANCE SECTION 17-207B)

Fire Flow Requirement Calculation - Derived from 2021 IFC Appendix B

2RW

Client:	Quinn Evans
Project Number:	19168
Project:	ACPS HS Center II
Design Phase:	CD
Designer:	Joe S
Reviewer:	Joe N
Date:	7/29/2024

Building Construction Parameters		Comments / Notes
Total Calculated Building Area (include covered overhangs):	62941.0 sq. ft.	

Analysis Zone	Occupancy Use Group	Sprinkler System	Construction Type	Building Area %	Comments / Notes
Zone 1	Commercial	NFPA 13	Type IIB or IIIB	100.0%	

Fire Flow Calculation					Comments / Notes
Analysis	Analysis Zone Area	Flow	% Adjusted	Duration	
Zone 1	62941.0 sq. ft.	5250 gpm	1313 gpm	4.0 hr	
Total Fire Flow for Construction Area			1313 gpm	4.0 hr	
Adjusted per IFC Table B105.2					
Total Water Volume Required			315000	gallons	

GENERAL NOTES

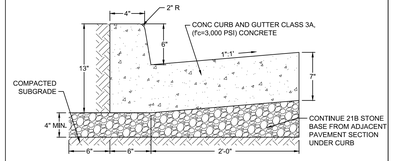
1. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR AS BUILT DOCUMENTATION, AS REQUIRED BY THE LOCALITY. THIS INCLUDES, BUT IS NOT LIMITED TO, TESTING, INSTALLATION DOCUMENTATION, SURVEY, ETC. ALL REQUIREMENTS SHALL BE DISCUSSED WITH THE LOCALITY PRIOR TO THE BEGINNING CONSTRUCTION.
2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS AND STANDARDS.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND VERIFY THE APPROVAL OF THE PLANS BY ALL FEDERAL, STATE AND LOCAL AGENCIES.
4. LAND USE PERMITS (LUP-A) MUST BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT OF WAY (INCLUDING ACCESS).
5. VDOT IS TO RECEIVE WRITTEN NOTIFICATION 48 HOURS PRIOR TO COMMENCING WITH INITIAL CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY LINES, WATERLINES, ETC, PRIOR TO CONSTRUCTION.
7. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE OWNER'S REPRESENTATIVE, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
8. ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT STANDARDS. PRIOR TO TYING IN PRIVATE STORMWATER PIPES, VIDEO INSPECTION OF EXISTING STORMWATER PIPES IS REQUIRED TO CONFIRM CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL STORM SYSTEM AT THE END OF THE PROJECT.
9. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED TONGUE AND GROVE CONCRETE PIPE IN ACCORDANCE WITH ASTM-C-76. ALL PIPE WITH BE CLASS III RCP OR AS NOTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS AND SPECIFICATIONS.
10. IF PRE-CAST UNITS ARE TO BE USED, THE MANUFACTURER SHALL SUBMIT DRAWING DETAILS FOR REVIEW. CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS.
11. ALL CONCRETE SHALL BE A3-AE (AIR ENTRAINED 3,000 PSI), UNLESS OTHERWISE NOTED.
12. ALL ENTRANCES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS.
13. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS NEED TO BE RESUBMITTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED PLANS AND/OR THE DRAINAGE CALCULATIONS, WHICH MUST BE SUBMITTED AND APPROVED BY THE ENGINEER.
14. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001.
15. CASING SLEEVES SHALL BE PLACED AT ALL ROAD CROSSINGS FOR GAS, POWER, TELEPHONE AND CABLE TV SERVICE TRUNK LINES.
16. THE INSTALLATION OF SEWER, WATER, AND GAS MAINS (INCLUDING SERVICE LATERALS AND SLEEVES) SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF AGGREGATE BASE COURSE.
17. VDOT & ALBEMARLE COUNTY APPROVAL OF CONSTRUCTION PLANS DOES NOT PRECLUDE THE RIGHT TO REQUIRE ADDITIONAL FACILITIES AS DEEMED NECESSARY.
18. VDOT SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT THE OWNER'S REPRESENTATIVE FOR INSPECTION FOR THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
19. A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT THE RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.
20. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECAST WEATHER CONDITIONS PER SECTION 315 OF THE ROAD AND BRIDGE SPECIFICATIONS.
21. THE OWNER'S REPRESENTATIVE SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT THE OWNER FOR INSPECTION FOR THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
22. A GEOTECHNICAL ENGINEER IS TO ASCERTAIN CAUSE AND CERTIFY RECOMMENDED METHOD OF REPAIR FOR ALL PAVEMENT STRUCTURAL FAILURES PRIOR TO STATE ACCEPTANCE.
23. ALL VEGETATION AND ORGANIC MATERIAL IS TO BE REMOVED FROM THE PROPOSED PAVEMENT LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.
24. CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR ALL MATERIALS AND BE IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS.
25. APPROVAL OF A DETAILED CONSTRUCTION SEQUENCING/MAINTENANCE OF TRAFFIC NARRATIVE FOR THE WORK ZONE IS A PREREQUISITE FOR ISSUANCE OF A LAND USE PERMIT ALLOWING ACCESS TO AND CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT OF WAY.
26. GRADE LINES ON PROFILES DENOTE FINISHED GRADE OF CENTER LINE OF ROAD.
27. ALL APPROACH GUTTERS TO SAG INLETS SHALL MAINTAIN A MINIMUM SLOPE OF 0.004 ft./ft.
28. WHERE A TYPE "B" NOSE IS SPECIFIED ON AN INLET IN CONJUNCTION WITH ROLL FACE CURB AND GUTTER OR CG-7, THERE SHALL BE A 20' TRANSITION ON EACH SIDE OF THE INLET.
29. CONTRACTOR SHALL PROVIDE A SEQUENCE OF CONSTRUCTION/MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE STANDARDS AND GUIDELINES CONTAINED IN THE 2011 EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL FOR REVIEW BY THE ENGINEER, OWNER'S REPRESENTATIVE, AND VDOT PRIOR TO STARTING WORK THAT IMPACTS TRAFFIC ON STATE ROADS.
30. ALL NEW HANDICAP ACCESSIBLE REQUIREMENTS ON-SITE AND WITHIN ALL NEW STRUCTURES SHALL COMPLY WITH THE LATEST VERSION OF THE UNIFORM STATEWIDE BUILDING CODE, VIRGINIA CONSTRUCTION CODE, STANDARDS FOR ACCESSIBLE DESIGN, AND ICC/ANSI A117.1-03.
31. THE CLEAR ZONE IS TO BE FREE OF STORED MATERIALS AND PARKED EQUIPMENT.
32. HORIZONTAL AND VERTICAL SIGHT DISTANCES SHALL BE FREE OF PARKED VEHICLES.
33. ALL EXCAVATED AREAS WITHIN THE CLEAR ZONE THAT HAVE A DEPTH GREATER THAN 6" SHALL HAVE A 6:1 STONE WEDGE PLACED AT THE END OF THE DAY
34. VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED.
35. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT HAVE A SURFACE SLOPE GREATER THAN 1:48. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACE THEY SERVE. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE TO THE PARKING FACILITY. WHERE BUILDINGS HAVE MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LOCATED NEAR THE ACCESSIBLE ENTRANCES. ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTE SHALL BE INSTALLED IN ACCORDANCE WITH ICC ANSI A117.1-09 AND THE 2015 VIRGINIA CONSTRUCTION CODE.
36. ALL ROOF DRAINS SHALL DISCHARGE IN A MANNER NOT TO CAUSE A PUBLIC NUISANCE AND NOT OVER SIDEWALKS.
37. BUILDINGS OR STRUCTURES BUILT BEFORE JANUARY 1, 1985 MUST HAVE AN ASBESTOS SURVEY PERFORMED IN ORDER TO APPLY FOR A DEMOLITION PERMIT. ASBESTOS REMOVAL PERMITS ARE REQUIRED IF POSITIVE FOR SUCH FROM ALBEMARLE COUNTY AND VDOLI. CONTACT VDOLI FOR THEIR ADDITIONAL REQUIREMENTS AND PERMITS FORE DEMOLITION PROJECTS AT 540-562-3580 x131.
38. ALL WATER, SEWER, AND FIRE LINES REQUIRE NEW INSPECTION AND TESTING PROCEDURES. THE ACSA PERFORMS ANY TESTING AND INSPECTIONS OF THE PUBLIC SEWER AND WATER MAIN(S). THE ALBEMARLE COUNTY BUILDING INSPECTIONS DEPARTMENT (ACBID) DOES A VISUAL INSPECTION AND WITNESSES THE TESTING OF THE BUILDING DRAIN, WATER SERVICE PIPE, AND THE SPRINKLER LEAD-IN CONNECTION. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO RETAIN A SPECIAL INSPECTOR AS OUTLINED IN THE UPDATED ALBEMARLE COUNTY POLICY FOR SITE UTILITIES TO PERFORM THE VISUAL INSPECTION AND TESTING OF ALL UTILITIES NOT COVERED BY THE ACSA OR ACBID. THIS INCLUDES BUILDING SEWERS, WATER AND FIRE LINE BRANCHES BETWEEN THE MAIN AND THE METER(S)/BUILDING(S). THE SPECIAL INSPECTOR'S REPORT MUST BE SUBMITTED AND APPROVED BY THE ALBEMARLE COUNTY ENGINEERING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.
39. CONTACT ACSA 3 DAYS PRIOR TO ESTABLISHING A CONNECTION TO THE ACSA WATER MAIN.

FIRE PREVENTION STEPS

1. AS FOUND IN THE VIRGINIA STATEWIDE FIRE PREVENTION CODE, ESTABLISH A WRITTEN FIRE PREVENTION PLAN AND IDENTIFY SOMEONE TO SERVE AS THE FIRE PREVENTION SUPERINTENDENT TO ENSURE SITE COMPLIANCE WITH THE PLAN.
2. SMOKING SHALL BE PROHIBITED IN AREAS WHERE SMOKING IS A HAZARD, AND THESE AREAS SHALL BE DESIGNATED WITH NO SMOKING SIGNS PER VIRGINIA STATEWIDE FIRE PREVENTION CODE.
3. AREAS WHERE SMOKING CAN OCCUR SHALL HAVE APPROPRIATE RECEPTACLES FOR DISCARDED SMOKING MATERIALS PER VIRGINIA STATESIDE FIRE PREVENTION CODE.
4. CONTRACTOR SHALL ENSURE THE STREET NAMES AND BUILDING NUMBERS ARE ALWAYS PLAINLY VISIBLE FROM THE FRONTAGE STREET DURING CONSTRUCTION PER THE VIRGINIA STATEWIDE FIRE CODE.
5. PER THE VIRGINIA STATEWIDE FIRE PREVENTION CODE, SAFE AND EFFICIENT VEHICULAR ACCESS FOR FIREFIGHTING AND EMERGENCY OPERATIONS HALL BE PROVIDED AND MAINTAINED AT ALL CONSTRUCTION AND DEMOLITION SITES. THIS INCLUDES PROVISION OF THE REQUIRED UNOBSTRUCTED ACCESS WIDTHS, A SURFACE CAPABLE OF SUPPORTING EMERGENCY APPARATUS OF UP TO 85,000 LBS. IN ALL WEATHER CONDITIONS, FREE OF OVERHEAD OBSTRUCTIONS FROM 13 FT 6 IN AND BELOW, PROVIDE ACCESS TO FIRE DEPARTMENT CONNECTIONS WITHIN 100 FEET OF WATER SUPPLY/HYDRANTS AND MUST PROVIDE FOR AERIAL ACCESS NO CLOSER THAN 15 FT AND NO MORE THAN 30 FT FROM THE ACCESS ROAD TO BUILDINGS OVER 30 FEET TALL. THIS ACCESS MAY BE VIA PERMANENT OR TEMPORARY ROAD AS LONG AS THE CONDITIONS ARE LISTED, AND THEY ARE PROPERLY IDENTIFIED/MARKED.
6. AN APPROVED WATER SUPPLY FOR FIREFIGHTING OPERATIONS SHALL BE IN PLACE WITH UNOBSTRUCTED ACCESSIBILITY AS SOON AS COMBUSTIBLE MATERIALS ARRIVE ON SITE.
7. WASTE AND COMBUSTIBLE DEBRIS SHALL BE REMOVED FROM THE BUILDING AT THE END OF EACH DAY AND DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA STATEWIDE FIRE CODE.
8. FIRE EXTINGUISHERS SHALL BE PROVIDED, WITH NOT LESS THAN ONE APPROVED FIRE EXTINGUISHER AT EACH STAIRWELL, ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE BEEN ACCUMULATED, IN EVER STORAGE AND CONSTRUCTION SHED AND IN AREAS OF SPECIAL HAZARDS, SUCH AS WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE STORED OR USED, IN ACCORDANCE WITH THE VIRGINIA STATEWIDE FIRE CODE.
9. OPERATIONS INVOLVING THE USE OF CUTTING AND WELDING SHALL COMPLY WITH THE VIRGINIA STATEWIDE FIRE PRECENTION CODE AND SHALL REQUIRE A PERMIT FROM THE ALBEMARLE COUNTY FIRE MARSHAL'S OFFICE.

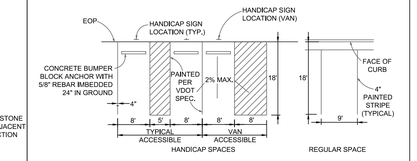
CONTAMINATED SOIL HANDLING AND TESTING NOTE:
IF SOILS APPEARING TO BE CONTAMINATED ARE ENCOUNTERED DURING DEMOLITION/GRADING, SOIL SHALL BE SEGREGATED DURING CONSTRUCTION ACCORDING TO THE FOLLOWING GENERAL CLASSIFICATIONS:

- NO IMPACT: NO OBVIOUS STAINING OR ODOR



VDOT STANDARD CG-6 CURB & GUTTER

No Scale



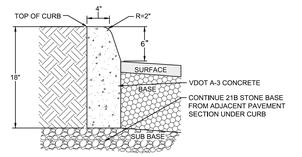
TYPICAL PARKING SPACE DETAILS

No Scale



CURB WIPE DOWN DETAIL

No Scale



VDOT STANDARD CG-2 CURB

No Scale

SIGNAGE NOTES:

1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND ANY REVISION THERE TO:
   A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,
   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,
   C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS,
   D. THE 2000 INTERNATIONAL FIRE CODE,
2. SIGN LOCATIONS ARE APPROXIMATE AND ARE TO BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTIONS, AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE,
3. ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL SIGNS TO BE FURNISHED AND INSTALLED WITH STANDARD U POST GALVANIZED BY THE CONTRACTOR.



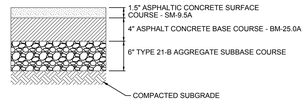
NOTE: STOP SIGNS TO BE 30" WITH HIGH INTENSITY SHEETING

STOP BAR DETAIL
NO SCALE



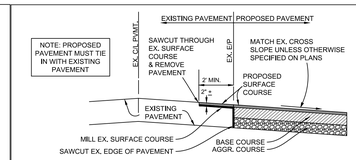
STRIPING AND SIGNAGE DETAIL

No Scale



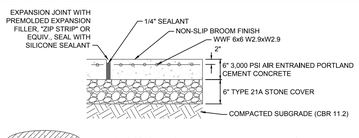
HEAVY DUTY ASPHALT PAVEMENT SECTION

No Scale



PAVEMENT REPLACEMENT JOINT DETAIL

No Scale



HEAVY DUTY CONCRETE SECTION

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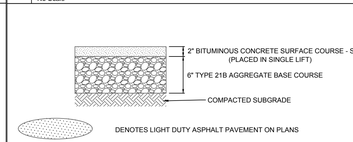

LIGHT DUTY ASPHALT PAVEMENT SECTION

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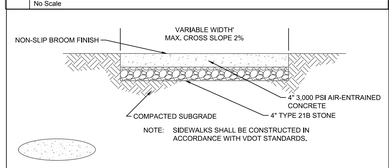
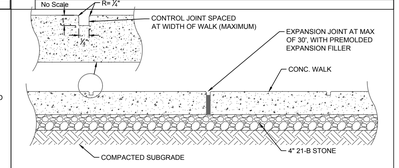


CONCRETE SIDEWALK PAVEMENT SECTION

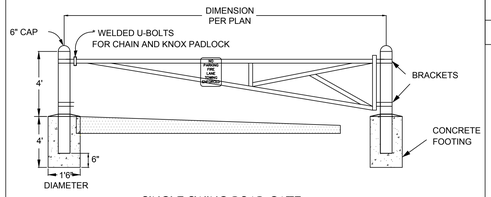
No Scale



CONCRETE SIDEWALK JOINT DETAIL

No Scale

GATES SHALL BE 2" GALVANIZED PIPE (WELD SEAMS AND PAINT W/ GALVANIZED PRIMER AND PAINT)



SINGLE SWING ROAD GATE

NO SCALE

* PROVIDE AN APPROVED KNOX LOCK FOR THE GATE IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, SECTION 506.1.1.
* CONSTRUCT GATE STOPS TO HOLD GATES IN OPEN POSITION

NOTE: INSTALL TWO USA-REFLECTOR GT-1 YELLOW ALUMINUM SUPPORTED REFLECTORS ON BOTH SIDES OF EACH GATE, OR APPROVED EQUAL.

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF JOSEPH C. MEDLEY FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON THE FOLLOWING DATES: MAY 22 THROUGH JUNE 07, 2023; JUNE 23, 2023; JULY 28, 2023; AUGUST 01, 2023; NOVEMBER 08 & 09, 2023; & JANUARY 05 & 08, 2024. THIS BASE-MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

SURVEY NOTES:

1. PROPERTY & ZONING INFORMATION:

OWNER: COUNTY SCHOOL BOARD OF ALBEMARLE COUNTY;

VIRGINIA
REFERENCE: DB. 287, PG. 414
COUNTY TAX MAP NUMBER: 60-78A (06000-78-0A-00000)
PROPERTY ADDRESS: 2775 HYDRAULIC ROAD
AREA: 216.69 ACRES (GSI)
ZONED: RA (RURAL AREAS)

2. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON:

a) LAND RECORDS OBTAINED (& REFERENCED) FROM THE CLERK'S OFFICE OF ALBEMARLE COUNTY; b) & VDOT PLANS OF RECORD AS REFERENCED HEREON; c) FIELD SURVEY BY THIS FIRM FOR RECOVERY AND VERIFICATION OF EXISTING PROPERTY CORNERS AS SHOWN HEREON.

RIGHT OF WAY CORRIDOR OF STATE ROUTE 743, HYDRAULIC ROAD, IS NOT MONUMENTED ALONG ITS MARGIN WITH THE SUBJECT PROPERTY DEPICTED HEREON. DELINEATION OF RIGHT OF WAY RELIES ON RECOVERY OF FOUND BOUNDARY EVIDENCE NORTH OF THE INTERSECTION OF SAID HYDRAULIC ROAD AND LAMBS LANE.

3. NOT TITLE REPORT PROVIDED; EASEMENTS MAY EXIST WHICH ARE NOT DEPICTED HEREON.

4. THIS PLAT DOES NOT REPRESENT A FORMAL BOUNDARY SURVEY PERFORMED BY THIS FIRM.

5. BASIS OF MERIDIAN NAD83 (NA 2011) VA SOUTH ZONE VIA NETWORK GPS OBSERVATIONS.

6. BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM); MAP NO. 51003C0260D, (PANEL 260 OF 575) EFFECTIVE FEBRUARY 4, 2005, PORTIONS OF THE SUBJECT PROPERTY LIES IN UNSHADED ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

7. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN THE IVY CREEK WATERSHED PER COUNTY GIS; PROPERTY IS ALSO WITHIN A WATER SUPPLY PROTECTION AREA.

8. THE PROPERTY SHOWN HEREON IS NOT LOCATED WITHIN AN AGRICULTURAL-FORESTAL DISTRICT.

9. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN AN ENTRANCE CORRIDOR OVERLAY AREA.

10. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN AN AIRPORT IMPACT AREA.

11. NO MANAGED OR PRESERVED STEEP SLOPES PRESENT ON / WITHIN PROPERTY. CRITICAL SLOPES EXIST ON PROPERTY, REGULATED BY ORDINANCE.

12. CONTOUR INTERVAL = 1'

13. SEE SHEET 3 FOR SHEET LAYOUT

LEGEND

WATER VALVE
FIRE HYDRANT
WATER METER
SPIGOT
STORM DRAINAGE (SD) MANHOLE
STORM INLET W/ GRATE
RIPRAP
CLEAN-OUT
RCP REINFORCED CONCRETE PIPE
CMP CORRUGATED METAL PIPE
PVC POLYVINYL CHLORIDE PIPE
HDPE HIGH-DENSITY POLYETHYLENE
SANITARY MANHOLE
FLOW DIRECTION
GAS VALVE
GAS METER
POWER MANHOLE
POWER BOX
UTILITY VAULT, AS NOTED
UTILITY POLE
LIGHT POLE
GUY LINE ANCHOR
GROUND LIGHT
TELECOMM PEDESTAL
CELLULAR TOWER
SANITARY PIPE
OHP OVERHEAD POWER
UNDERGROUND POWER
UNDERGROUND FIBER OPTIC
WATER LINE
GAS LINE
UNDERGROUND UTILITY
X FENCE, AS NOTED
CENTERLINE SWALE/CREEK
EDGE OF GRAVEL (EG)
EDGE OF PAVEMENT (EP)
DECIDUOUS TREE (DEC)
CONIFER (CON)
HOLLY TREE
SIDEWALK
CONCRETE
EDGE OF CONCRETE
SIGN
FLAGPOLE
BOLLARD
TRAFFIC SIGNAL POLE
MAILBOX
TRAFFIC SYMBOLOGY
PROPERTY MARKER FOUND, AS NOTED
SURVEY CONTROL

UG UTILITY DESIGNATION NOTES:

1) U/G UTILITY DESIGNATION PERFORMED BY TIMMONS GROUP AND COMPLETED IN AUGUST OF 2023 & NOVEMBER OF 2023.

2) ALL U/G UTILITIES FOUND ON-SITE ARE DESIGNATED AS QUALITY LEVEL B UNLESS OTHERWISE NOTED.

EOI = END OF INFORMATION FOR CONDUCTIVE UTILITY FIELD SIGNALS.

QLD-DATA = QUALITY LEVEL D - DATA ACCORDING TO RECORDS. APPROXIMATE LOCATION SHOWN OF AN NON-CONDUCTIVE / UNLOCATABLE UNDERGROUND UTILITY LINE.

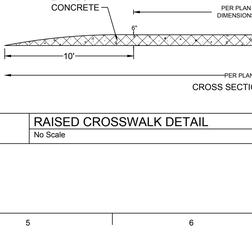
UTILITY OWNERS:

-ALBEMARLE COUNTY SERVICE AUTHORITY
-SEGRA / LUMOS NETWORKS
-DOMINION ENERGY
-CITY OF CHARLOTTESVILLE
-CITY OF CHARLOTTESVILLE NATURAL GAS
- RIVANNA WATER & SEWER AUTHORITY
- BRIGHTSPEED

SURVEY LEGEND

LINE TABLE		
LINE	BEARING	LENGTH
E1	S59°29'23"W	20.00'
L1	S30°30'37"E	38.91'
L2	S80°41'37"E	12.97'
L3	S38°23'16"E	37.97'
L4	S29°54'23"W	4.04'
L5	N54°45'56"W	19.31'
L6	S89°10'13"W	12.72'

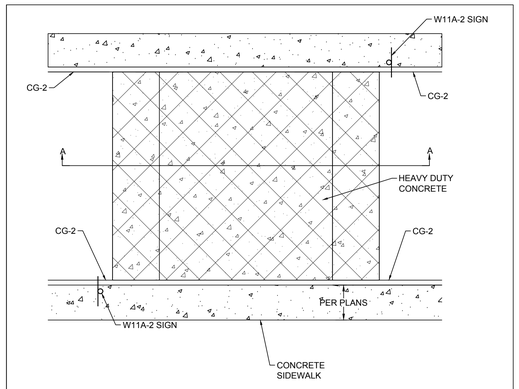
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	338.31'	166.17'	84.80'	28°08'34"	S44°34'54"E	164.51'
C2	358.31'	103.47'	52.10'	16°32'44"	S72°25'15"E	103.11'
C3	1685.02'	150.78'	75.44'	5°07'37"	S27°20'34"W	150.73'
C4	30.00'	40.88'	24.32'	78°04'20"	N52°42'44"E	37.79'
C5	30.00'	37.66'	21.76'	71°55'18"	N4°29'32"W	35.23'
C6	1685.02'	401.69'	201.80'	13°39'31"	S12°49'23"W	400.74'
C7	50.00'	101.45'	80.42'	116°15'29"	N64°07'22"E	84.92'
EC8	358.31'	210.36'	108.31'	33°38'16"	S47°19'45"E	207.35'



NOTES;
1. SELECTED DELINEATOR SHALL CONFORM TO ALL APPLICABLE VDOT STANDARDS AS LISTED IN THE MOST RECENT VERSION OF THE ROAD AND BRIDGE SPECIFICATION. ALL COMPONENTS MUST COMPLY WITH THE VDOT MATERIALS DIVISION APPROVED PRODUCTS LIST (16)
2. DELINEATOR(S) SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURER SPEC AND SHALL CONFORM TO THE PROCEDURES FOUND IN SECTION 702.04 (C) OF THE LATEST VERSION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS. THE BASE IS TO BE EMBEDDED PER MANUFACTURER SPEC; ANCHORING SYSTEMS SHALL CONFORM TO SECTION 235 OF THE VDOT SPEC.
3. POST REFLECTIVE SHEATHING SHALL MEET MINIMUM STANDARDS FOUND IN SECTION 246.02(F) OF THE VDOT ROAD AND BRIDGE SPEC. SHALL BE SELECTED FROM THE APPROVED PRODUCT LIST (P. 46)
4. DELINEATORS ARE TO BE SPACED 10' ON CENTER

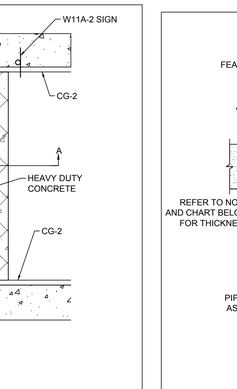
FLEXIBLE POST DELINEATOR - GROUND MOUNTED

No Scale



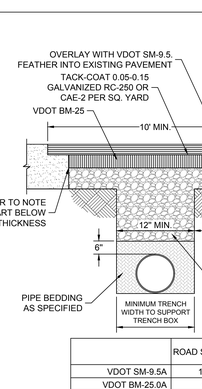
RAISED CROSSWALK DETAIL

No Scale



BOLLARD DETAIL

No Scale



ADA PARKING SIGNS

No Scale

	ROAD SECTION
VDOT SM-9.5A	1.5"
VDOT BM-25.0A	4"
VDOT 21A	6"
"X" - COMPACTION	100%

NOTE; PAVEMENT THICKNESS SHALL BE A MINIMUM OF ONE AND A HALF TIMES (1.5X) EXISTING PAVEMENT THICKNESS OR AS NOTED IN CHART ABOVE, WHICHEVER IS HIGHER. BACKFILL SHALL BE VDOT #21A ABOVE TOP OF BEDDING TO UNDERSIDE OF PAVEMENT

TYPICAL PAVEMENT REPAIR DETAIL

No Scale

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO REFERENCE CURRENT DETAILS IN THE VDOT ROAD & BRIDGE STANDARDS.

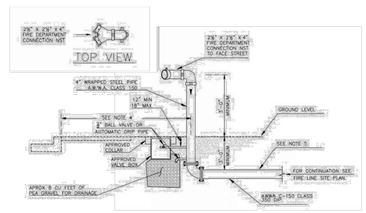
VDOT DETAILS LEGEND

STANDARD	TITLE	PAGE
EW-1	STANDARD ENDWALL FOR PIPE CULVERTS	101.01
EW-12	STANDARD ENDWALL FOR PIPE UNDERDRAIN	101.32
ES-1	FLARED END-SECTION FOR 12'-60" CONCRETE PIPE CULVERTS	102.01
DI-1, 2B 3B, 3C	STANDARD CURB DROP INLET (12" TO 24" PIPE: MAXIMUM DEPTH (H) = 9')	104.03
	DIMENSIONS, NOTES, AND QUANTITIES	104.04
	STANDARD CURB DROP INLET (12" TO 30" PIPE: MAXIMUM DEPTH (H) = 8')	104.09
	DIMENSIONS, NOTES, AND QUANTITIES	104.10
MH-1	MANHOLE FOR 12" TO 48" PIPE CULVERT	106.01
	STANDARD MANHOLE FRAME AND COVER	106.02
	STANDARD MANHOLE FRAME AND COVER	106.04
MH-2	PRECAST MANHOLE	106.07
IS-1	STANDARD METHOD OF SHAPING MANHOLE & INLET INVERTS	106.08
PB-1	INSTALL. OF PIPE CULVERTS AND STORM SEWERS CIR. PIPE BEDDING AND BACKFILL - METHOD "A"	107.01
UD-4	STANDARD GROUNDWATER UNDERDRAIN	108.01
CG-7	COMBINATION 4" CURB AND GUTTER	201.04
CG-9D	STANDARD ENTRANCE GUTTER	203.02
CG-11	COMMERCIAL ENTRANCE	203.04
CG-12	CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)	204.01
	CG-12 DETECTABLE WARNING SURFACE (TYPE A, PERPENDICULAR APPLICATION)	204.02
	CG-12 DETECTABLE WARNING SURFACE (TYPE B, PARALLEL APPLICATION)	204.03
	CG-12 DETECTABLE WARNING SURFACE (TYPE C, PARALLEL & PERPENDICULAR APPLICATION)	204.04
	CG-12 DETECTABLE WARNING SURFACE (MEDIAN AND REFUGE ISLAND APPLICATIONS) TYPE M1, M2 , & R11, R12	204.05
MB-13	CONCRETE MEDIAN BARRIER TYPE I, II, OR III	502.18
	CONCRETE MEDIAN BARRIER TYPE I, II, OR III	502.19
HR-1	STANDARD HANDRAIL METHOD OF LOCATING AND ERECTING	601.05
STP-1	SQUARE TUBE SIGN POST	1321.12
	SQUARE TUBE SIGN POST - FOUNDATION TYPE D AND E DETAILS	1321.17

FIRE DEPARTMENT CONNECTION

Scale: NTS

NOTES:
1. PROVIDE BUILDING I.D. ON REMOTE FIRE DEPT. CONNECTION.
2. NO TREES, BUSHES OR WALLS WITHIN 5' RADIUS OF FIRE DEPT. CONNECTION.
3. IF FIRE SPRINKLER DESIGN INDICATES DEMAND OF 1000 GPM OR GREATER, THE UNDERGROUND FIRE DEPT. CONNECTION LINE SHALL BE INCREASED TO 6' DIAMETER WITH A THREE WAY 2-1/2" FIRE DEPT. HOSE CONNECTION.
4. 4' MIN. TO BACK OF CURB
5. PIPE BELOW GROUND LEVEL SHALL BE POLYWRAPPED PER SEC 610.
6. ALL PIPE SHALL BE AWWA C-150 CLASS 350 DIP.
7. ALL JOINTS SHALL BE MEGA-LUG RESTRAINED OR APPROVED EQUAL.



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TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
Jonathan Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd, Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

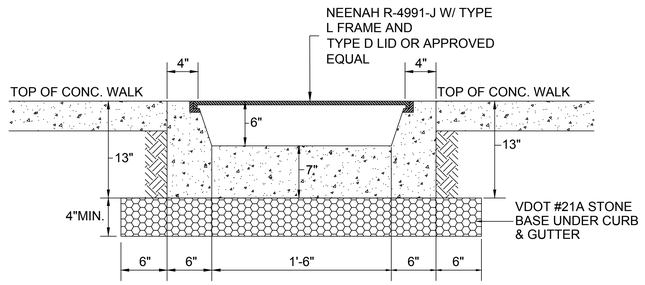
QEA No.41911390

ARB - SECOND SUBMISSION 10/02/2024

NOTES & DETAILS

C1.1

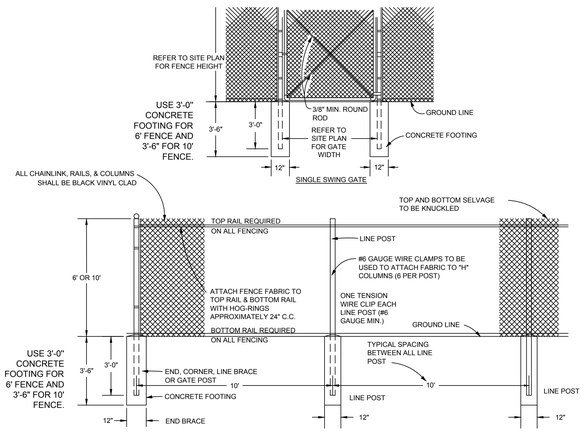
PATH & FILENAME:
PLOTTING DATE & TIME:



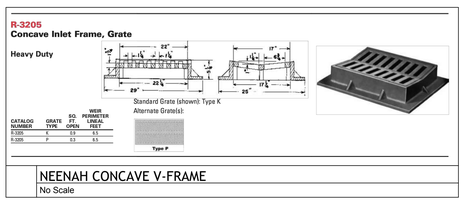
NOTE : THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
IF CAST IN PLACE, CONCRETE TO BE CLASS A3. IF PRECAST,
CONCRETE TO BE 4000PSI.

FLUME WITH STEEL PLATE

NOT TO SCALE



STANDARD VINYL-COATED CHAIN LINK FENCE
No Scale



NEENAH CONCAVE V-FRAME
No Scale

SUMMARY OF PARKING REQUIREMENTS FROM ZMA202300008

Parking locations are indicated on illustrations 2.

As the new building is proposed on an existing parking lot, the following summary outlines the parking required for High School Center II and Albemarle High School.

We are assuming 45% of students attending HSCII will be from AHS due to the location and programs planned to be offered at the center. Transportation estimates that approximately 140 students would drive to HSCII based on current driving numbers that exist at Center one and the other high schools. Therefore we expect 77 student drivers (140*55%) at HSCII.

- 35 staff
- 15 visitor
- 77 students will drive from other home high schools (assuming 63 will attend from AHS)
- 200 students will arriving by bus
- 20 walking/bicycling
- 40 parent drop off by car

To address any loss of parking spots, and required parking needed due to the placement of the Center II building, ACPS will be building a new parking lot where the current basketball and tennis courts are near the AHS stadium. This parking lot is planned to be able to add up to an additional 200 parking spaces. New tennis courts will be built north of the AHS stadium and just south of Lambs Lane.

Original Proffers ___x_____
Amendment _____

PROFFER STATEMENT

ZMA No. **ZMA202300008 High School Center II at Albemarle High School**

Tax Map and Parcel Number(s): **06000-00-00-078A0 (portion)**

Owner(s) of Record: **School Board of Albemarle County, Virginia**

Date of Proffer Signature: January 3, 2024

9.9 acres to be rezoned from **RA** to **R10**

School Board of Albemarle County, Virginia, is the owner (the "Owner") of Tax Map and Parcel Number **06000-00-00-078A0** (the "Property") which is the subject of rezoning application ZMA No. **ZMA202300008**, a project known as "**High School Center II at Albemarle High School**" (the "Project").

Pursuant to Section 33.3 of the Albemarle County Zoning Ordinance, the Owner hereby voluntarily proffers the conditions listed below which shall be applied to the Property if it is rezoned to the zoning district identified above. These conditions are proffered as a part of the requested rezoning and the Owner acknowledges that the conditions are reasonable.

1. **FUTURE USES:** Residential R-10: The use of the Property shall allow for all by right uses pursuant to Section 17.2.1 of the Albemarle County Zoning Ordinance except for the following listed uses:
   a. Detached single-family dwellings.
   b. Semi-detached and attached single-family dwellings such as two-family dwellings, triplexes, quadraplexes, and townhouses, provided that density is maintained, and provided further that buildings are located so that each unit could be provided with a lot meeting all other requirements for detached single-family dwellings except for side yards at the common wall.
   c. Multiple-family dwellings such as garden apartments.
   d. Cluster development of permitted residential uses.
   e. Rental of permitted residential uses and guest cottages; provided that yard, area and other requirements of this ordinance shall be met for each such use whether or not such use is on an individual lot.
   f. Group home (reference 5.1.07). (Amended 8-9-17).
   g. Boarding houses.
   h. Homestays (reference 5.1.48).
   i. Family day homes (reference 5.1.56). (Added 9-11-13).

2. **SETBACK:** Construction of High School Center II shall have a minimum setback from Georgetown Green property line (TMP 060F0-00-00-00200) of 50-feet.

1

OWNER:
School Board of Albemarle County, Virginia

OWNER:

By: **Judy Le**
Title: **Chair of School Board, Rivanna Magisterial District**
School Board of Albemarle County, Virginia

2

County of Albemarle
Community Development Department - Planning

Rebecca Ragsdale
rragsdale@albemarle.org
Telephone: (434) 296-5832 ext.3226

January 30, 2024

Lindsay Snoddy
County of Albemarle School Board
2751 Hydraulic Rd
Charlottesville, VA 22901
lcsnoddy@k12albemarle.org

RE: SE202300039 High School Center II at Albemarle High School Special Exception Action Letter

Dear Ms. Snoddy,

On January 17, 2024, the Board of Supervisors took action on the above noted Special Exception on Tax Map Parcel Number 06000-00-00-078A0 in the Jack Jouett.

The Special Exception was approved by the Board's adoption of the attached Resolution.

Please be advised that although the Albemarle County Board of Supervisors took action on the project noted above, no uses on the property may lawfully begin until all applicable approvals have been received and conditions have been met. This includes:

- **compliance with the approved SPECIAL EXCEPTION; and**
- **approval of and compliance with a SITE PLAN.**

Should you have questions regarding the above-noted action, please contact me.

Sincerely,
Rebecca Ragsdale
Planning Manager

RESOLUTION TO APPROVE
SE 2023-00039 HIGH SCHOOL CENTER II
AT ALBEMARLE HIGH SCHOOL

WHEREAS, upon consideration of the staff reports prepared for SE2023-00039 High School Center II at Albemarle High School and the attachments thereto, including staff's supporting analysis, any comments received, and all relevant factors in Albemarle County Code §§ 18-4.19 and 18-33.9, the Albemarle County Board of Supervisors hereby finds that:

1. The maximum front setback should be waived by special exception to accommodate unique parking or circulation plans on the subject parcel; and
2. The proposed special exception is consistent with the intent of the R-10 Residential zoning district and the Neighborhood Model Principles of the Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED that the Albemarle County Board of Supervisors hereby approves a special exception to waive the 25-foot maximum front setback requirement of County Code § 18-4.19 on Parcel 06000-00-00-078A0.

I, Claudette K. Borgersen, do hereby certify that the foregoing writing is a true, correct copy of a Resolution duly adopted by the Board of Supervisors of Albemarle County, Virginia, by a vote of six to zero, as recorded below, at a meeting held on January 17, 2024.

Clerk, Board of County Supervisors

	Aye	Nay
Mr. Andrews	Y	
Mr. Gallaway	Y	
Ms. LaPisto-Kirtley	Y	
Ms. Mallek	Y	
Ms. McKeel	Y	
Mr. Pruitt	Y	

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QUINNEVANS.COM

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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
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10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

NOTES & DETAILS

C1.2

PATH & FILENAME:
PLOTTING DATE & TIME:



PATH & FILENAME:
PLOTTING DATE & TIME:

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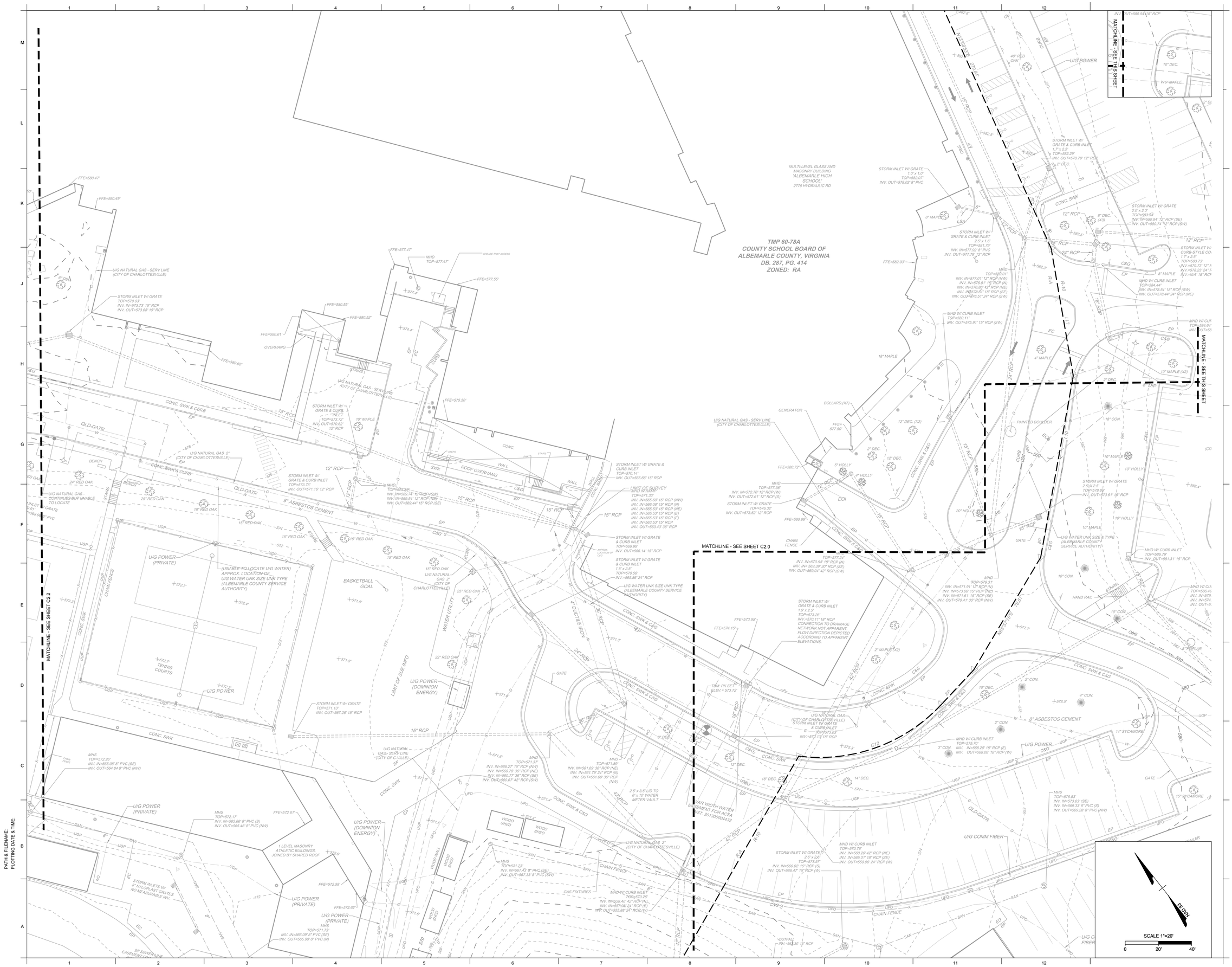
ARB - SECOND SUBMISSION 10/02/2024

EXISTING CONDITIONS PLAN

C2.0


TMP 60-78A
COUNTY SCHOOL BOARD OF
ALBEMARLE COUNTY, VIRGINIA
DB. 287, PG. 414
ZONED: RA
MULTI-LEVEL GLASS AND MASONRY BUILDING "ALBEMARLE HIGH SCHOOL" 2775 HYDRAULIC RD
MATCHLINE - SEE SHEET C2.2
MATCHLINE - SEE SHEET C2.0
MATCHLINE - SEE THIS SHEET
U/G POWER (PRIVATE)
U/G POWER (DOMINION ENERGY)
U/G NATURAL GAS - SERV LINE (CITY OF CHARLOTTESVILLE)
U/G NATURAL GAS 2" (CITY OF CHARLOTTESVILLE)
U/G NATURAL GAS - CONTINUES BUT UNABLE TO LOCATE
U/G NATURAL GAS 2" (CITY OF CHARLOTTESVILLE)
U/G WATER UNK SIZE UNK TYPE (ALBEMARLE COUNTY SERVICE AUTHORITY)
U/G COMM FIBER
U/G POWER (UNABLE TO LOCATE U/G WATER) APPROX. LOCATION OF U/G WATER UNK SIZE UNK TYPE (ALBEMARLE COUNTY SERVICE AUTHORITY)
U/G NATURAL GAS 2" (CITY OF CHARLOTTESVILLE)
U/G NATURAL GAS - SERV LINE (CITY OF CHARLOTTESVILLE)
U/G NATURAL GAS (CITY OF CHARLOTTESVILLE) STORM INLET W/ GRATE & CURB INLET TOP=573.03' INV.=570.13 18" RCP
U/G WATER UNK SIZE A TYPE (ALBEMARLE COUNTY SERVICE AUTHORITY)
STORM INLET W/ GRATE TOP=579.03' INV. IN=573.73' 15" RCP INV. OUT=573.68' 15" RCP
STORM INLET W/ GRATE & CURB INLET TOP=573.72' INV. OUT=570.62' 12" RCP
STORM INLET W/ GRATE & CURB INLET TOP=573.76' INV. OUT=571.16' 12" RCP
STORM INLET W/ GRATE & CURB INLET TOP=570.14' INV. OUT=565.66' 15" RCP
STORM INLET W/ GRATE & CURB INLET TOP=576.14' INV. OUT=566.68' 15" RCP
STORM INLET W/ GRATE & CURB INLET 1.5' x 2.5' TOP=570.56' INV.=565.86' 24" RCP
STORM INLET W/ GRATE & CURB INLET 1.0' x 1.0' TOP=582.07' INV. OUT=578.02' 8" PVC
STORM INLET W/ GRATE & CURB INLET 1.7' x 2.3' TOP=582.29' INV. OUT=578.79' 12" RCP
STORM INLET W/ GRATE & CURB INLET 2.0' x 2.3' TOP=583.54' INV. IN=580.84' 12" RCP (SE) INV. OUT=580.74' 12" RCP (SW)
STORM INLET W/ GRATE & CURB INLET 2.5' x 1.6' TOP=581.79' INV. IN=577.62' 8" PVC INV. OUT=577.79' 12" RCP
STORM INLET W/ GRATE & CURB INLET 1.9' x 2.5' TOP=573.26' INV.=570.11' 18" RCP CONNECTION TO DRAINAGE NETWORK NOT APPARENT FLOW DIRECTION DERICTED ACCORDING TO APPARENT ELEVATIONS.
STORM INLET W/ CURB-STYLE CO 1.7' x 2.5' TOP=583.73' INV.=579.73' 12" R INV.=578.23' 24" R INV.=N/A' 18" RCP
MHD W/ CURB INLET TOP=584.44' INV. IN=578.54' 18" RCP (SW) INV. OUT=578.44' 24" RCP (NE)
MHD W/ CURB INLET TOP=580.11' INV. OUT=575.91' 15" RCP (SW)
MHD W/ CURB INLET TOP=576.70' INV. IN=568.20' 18" RCP (E) INV. OUT=568.08' 18" RCP (W)
MHD W/ CURB INLET TOP=579.31' INV. IN=573.66' 15" RCP (NE) INV. IN=571.61' 15" RCP (SE) INV. OUT=570.41' 30" RCP (NW)
MHD W/ CURB INLET TOP=580.75' INV. OUT=581.31' 15" RCP
MHD TOP=577.47'
MHD TOP=571.37' INV. IN=566.27' 15" RCP (NW) INV. IN=560.78' 36" RCP (NE) INV. IN=560.77' 36" RCP (SE) INV. OUT=560.67' 42" RCP (SW)
MHD TOP=571.89' INV. IN=561.69' 36" RCP (NE) INV. IN=561.79' 24" RCP (N) INV. OUT=561.69' 36" RCP (NW)
MHD TOP=571.33' INV. IN=565.60' 15" RCP (NW) INV. IN=566.08' 15" RCP (N) INV. IN=565.53' 15" RCP (NE) INV. IN=565.53' 15" RCP (E) INV. IN=565.53' 15" RCP (E) INV. IN=563.53' 15" RCP INV. OUT=563.43' 36" RCP
MHD TOP=574.36' INV. IN=569.74' 12" RCP (SW) INV. IN=569.54' 12" RCP (NE) INV. OUT=569.44' 15" RCP (SE)
MHD TOP=577.38' INV. IN=572.76' 12" RCP (W) INV. OUT=572.61' 12" RCP (S)
MHD TOP=577.24' INV. IN=570.54' 18" RCP (N) INV. IN= 569.39' 30" RCP (SE) INV. OUT=569.04' 42" RCP (SW)
MHD TOP=571.33' INV. IN=569.74' 12" RCP (SW) INV. IN=569.54' 12" RCP (NE) INV. OUT=569.44' 15" RCP (SE)
MHD TOP=571.73' INV. IN=566.09' 8" PVC (SE) INV. OUT=565.98' 8" PVC (N)
MHS TOP=572.26' INV. IN=565.08' 8" PVC (SE) INV. OUT=564.84' 8" PVC (NW)
MHS TOP=572.17' INV. IN=565.66' 8" PVC (S) INV. OUT=565.46' 8" PVC (NW)
MHS TOP=521.23' INV. IN=567.43' 8" PVC (SE) INV. OUT=567.33' 8" PVC (SW)
MHS TOP=576.83' INV. IN=573.63' (SE) INV. IN=569.33' 8" PVC (S) INV. OUT=569.28' 8" PVC (NW)
STORM INLETS W/ 8" NYLOPLAST GRATES NO MEASURABLE INV.
STORM INLET W/ GRATE & CURB INLET TOP=573.26' INV. IN=568.46' 42" RCP (W) INV. IN=557.98' 24" RCP (E) INV. OUT=555.88' 24" RCP (E)
STORM INLET W/ GRATE & CURB INLET TOP=577.24' INV. IN=570.54' 18" RCP (N) INV. IN= 569.39' 30" RCP (SE) INV. OUT=569.04' 42" RCP (SW)
STORM INLET W/ GRATE & CURB INLET 2.5' x 2.5' TOP=573.57' INV. IN=566.62' 15" RCP (S) INV. OUT=566.47' 15" RCP (W)
STORM INLET W/ GRATE 2.5'X 2.5' TOP=578.80' INV. OUT=573.61' 18" RCP
STORM INLET W/ GRATE TOP=582.84' INV. OUT=572.76' 12" RCP (W) INV. OUT=572.61' 12" RCP (S)
STORM INLET W/ GRATE TOP=573.52' INV. OUT=573.52' 12" RCP
STORM INLET W/ GRATE TOP=582.07' INV. OUT=578.02' 8" PVC
LIMIT OF SURVEY TOP=571.33' INV.=565.60' 15" RCP (NW) INV.=566.08' 15" RCP (N) INV.=565.53' 15" RCP (NE) INV.=565.53' 15" RCP (E) INV.=565.53' 15" RCP (E) INV.=563.53' 15" RCP INV. OUT=563.43' 36" RCP
LIMIT OF SURVEY TOP=571.33' INV.=569.74' 12" RCP (SW) INV.=569.54' 12" RCP (NE) INV. OUT=569.44' 15" RCP (SE)
LIMIT OF SURVEY TOP=574.36' INV.=569.74' 12" RCP (SW) INV.=569.54' 12" RCP (NE) INV. OUT=569.44' 15" RCP (SE)
LIMIT OF SURVEY TOP=577.38' INV. IN=572.76' 12" RCP (W) INV. OUT=572.61' 12" RCP (S)
LIMIT OF SURVEY TOP=577.24' INV. IN=570.54' 18" RCP (N) INV. IN= 569.39' 30" RCP (SE) INV. OUT=569.04' 42" RCP (SW)
LIMIT OF SURVEY TOP=573.57' INV. IN=566.62' 15" RCP (S) INV. OUT=566.47' 15" RCP (W)
LIMIT OF SURVEY TOP=573.26' INV. IN=568.46' 42" RCP (W) INV. IN=557.98' 24" RCP (E) INV. OUT=555.88' 24" RCP (E)
LIMIT OF SURVEY TOP=576.32' INV. OUT=573.52' 12" RCP
LIMIT OF SURVEY TOP=582.07' INV. OUT=578.02' 8" PVC
LIMIT OF SURVEY TOP=582.29' INV. OUT=578.79' 12" RCP
LIMIT OF SURVEY TOP=582.84' INV. OUT=572.76' 12" RCP (W) INV. OUT=572.61' 12" RCP (S)
LIMIT OF SURVEY TOP=573.52' INV. OUT=573.52' 12" RCP

MATCHLINE - SEE SHEET C2.3

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET C2.1

EX. 20' WATERLINE EASEMENT FOR ACSA DB. 2043, PG. 648

EX. 20' WATERLINE EASEMENT FOR ACSA DB. 2043, PG. 648

20' WATER EASEMENT FOR ACSA INST. 200000001339

20' SEWER LINE EASEMENT FOR ACSA INST. 200200003788

20' WATER EASEMENT FOR ACSA INST. 199600007702

TMP 60-78A
COUNTY SCHOOL BOARD OF ALBEMARLE COUNTY, VIRGINIA
DB. 287, PG. 414
ZONED: RA

(UNABLE TO LOCATE U/G WATER) APPROX. LOCATION OF U/G WATER UNK SIZE UNK TYPE (ALBEMARLE COUNTY SERVICE AUTHORITY)

(UNABLE TO LOCATE U/G WATER) APPROX. LOCATION OF U/G WATER UNK SIZE UNK TYPE (ALBEMARLE COUNTY SERVICE AUTHORITY)

APPROX. LOCATION OF STORM SEWER PER AS-BUILTS

U/G POWER (PRIVATE)

U/G POWER (DOMINION ENERGY)

U/G NATURAL GAS - SERVICE (CITY OF CHARLOTTESV...

U/G NATURAL GAS - CONTINUES BUT UNABLE TO LOCATE

U/G POWER

CHAIN FENCE

TENNIS COURTS

SOCCER FIELD

GOAL

BLEACHERS

BENCHES

BENCH

SHEDS

PAVED PATH

COVERED ENTRY

BOX PLANTERS (X6)

EOI

QLD-DATR

CONC. SWK & C&G

STORM INLET W/ GRATE TOP=570.73' INV. IN=568.73' 6" PVC INV. OUT=568.68' 6" PVC

STORM INLET W/ GRATE TOP=570.91' INV. OUT=568.[illegible]" PVC

STORM INLET W/ GRATE TOP=571.77' INV. IN=567.75' 15" RCP (SE) INV. OUT=567.67' 15" RCP (SW)

STORM INLET W/ GRATE 2.4' x 2.4' TOP=570.50' INV. IN=566.79' 15" RCP (NE) INV. IN=567.19' 15" RCP (SE) INV. OUT=566.68' 15" RCP (SW)

STORM INLET W/ GRATE 2.2' x 2.4' TOP=570.60' INV. IN=567.08' 15" RCP (SE) INV. OUT=567.05' 15" RCP (NE)

STORM INLET W/ GRATE 2.2' x 2.6' TOP=570.63' INV. OUT=567.37' 15" RCP (SE)

STORM INLET W/ GRATE 2.4' x 2.6' TOP=570.72' INV. IN=568.12' 8" PVC (SE) INV. OUT=568.10' 8" PVC (NE)

INLET W/ FLARED END SECTION INV.=567.31' 15" RCP

MHD W/ CURB INLET TOP=579.30' INV. OUT=573.80' 15" RCP

MHD W/ CURB INLET TOP=579.37' INV. OUT=574.07' 15" RCP

MHD TOP=555.9' INV. IN=550.80' 24" RCP (ESE) INV. OUT=550.62' 24" RCP (SW)

MHD TOP=574.69' INV. IN=561.69' 8" PVC (SW) INV. OUT=561.59' 8" PVC (NW)

MHD TOP=571.69' INV. IN=566.57' 15" RCP (NE) INV. IN=566.59' 15" RCP (SE) INV. OUT=566.54' 15" RCP (NW)

MHS TOP=571.29' INV. IN=563.15' 8" PVC (SE) INV. OUT=562.97' 8" PVC (NE)

INV. OUT=575.84' 8" HDPE

24" RCP

18" RCP

15" RCP

8" DIP

8" DEC. (X3)

8" DEC. (X7)

8" DEC.

16" RED OAK

16" POPLAR

16" POPLAR (X2)

12" DEC.

5" MAPLE

4" MAPLE

24" RED OAK

FFE=580.47'

FFE=580.49'

FFE=580.50'

FFE=580.53'

FFE=580.51'

SCALE 1"=20'
0 20' 40'

NAD 83

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS

1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

v 804.788.4774

QUINNEVANS.COM

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter

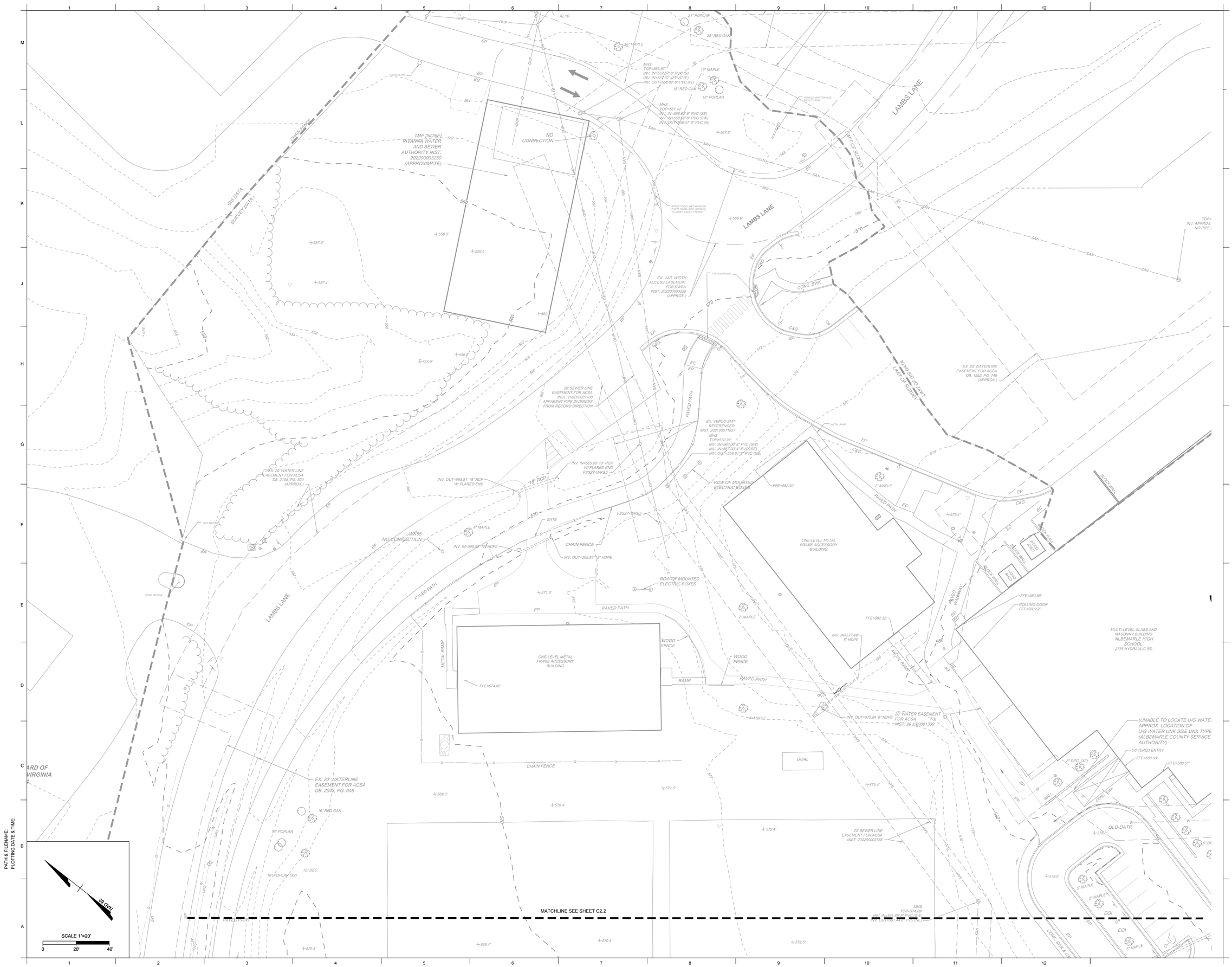
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

EXISTING CONDITIONS PLAN

C2.2



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ARB - SECOND SUBMISSION
10/02/2024

EXISTING CONDITIONS PLAN

C2.3

NOTE:
1) ALL TREES TO BE PROTECTED WITH TREE PROTECTION PRIOR TO ANY DEMOLITION, MATERIAL STORAGE, OR OTHER CONSTRUCTION ACTIVITY AND SHOULD BE MAINTAINED CONTINUOUSLY THROUGHOUT THE PROJECT.
2) SALVAGE ALL EXISTING SIGNS IN DEMOLITION AREA AND PROVIDE TO OWNER FOR REUSE AT OWNERS DISCRETION.
3) PATCH ALL HOLES IN EXISTING STRUCTURES FROM PIPES TO BE REMOVED PER VDOT STANDARDS.
4) ALL DEMO SHALL BE DONE IN ACCORDANCE WITH SCHEDULE ON G003 CONSTRUCTION SEQUENCING PLAN.

LEGEND

- REMOVE TREE/ BUSH
- REMOVE BUILDING
- SAW CUT CURB SIDEWALK OR ASPHALT (SIDEWALKS AND CURB TO BE CUT AT NEAREST JOINT)
- REMOVE CONCRETE
- REMOVE ASPHALT

SCALE 1"=20'
0 20' 40'

PATH & FILENAME:
PLOTTING DATE & TIME:

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DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION 10/02/2024

DEMOLITION PLAN

C2.4

NOTE:
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3) PATCH ALL HOLES IN EXISTING STRUCTURES FROM PIPES TO BE REMOVED PER VDOT STANDARDS.
4) ALL DEMO SHALL BE DONE IN ACCORDANCE WITH SCHEDULE ON G003 CONSTRUCTION SEQUENCING PLAN.

MATCHLINE - SEE SHEET C2.7

MATCHLINE - SEE SHEET C2.4

MATCHLINE - SEE THIS SHEET

PRESERVE AND MODIFY BASE
REMOVE INLET TOP AND REPLACE WITH DI-1 AT PROPOSED GRADE
STORM INLET W/ GRATE
TOP=579.03'
INV. IN=573.73' 15" RCP
INV. OUT=573.68' 15" RCP

SAWCUT AND REMOVE 1' OF ASPHALT TO MATCH PAVEMENT

SAWCUT LINE

REMOVE CONC. SWK & CURB

REMOVE CURB

REMOVE STORM INLET W/ GRATE & CURB INLET

REMOVE SWK

REMOVE CAG

SEE NOTE 2 ALL SIGNS (TYP.)

PRESERVE AND MODIFY BASE
REMOVE INLET TOP AND REPLACE WITH DI-1 AT PROPOSED GRADE
STORM INLET W/ GRATE & CURB INLET
TOP=570.14'
INV. OUT=565.66' 15" RCP

SAWCUT RAMP 1' UP FROM END OF STRAIGHT HANDRAIL SECTION. PRESERVE WALLS

SAWCUT SIDEWALK AT NEAREST JOINT

REMOVE EXISTING RAMP

QLD-DATR

8" ASBESTOS CEMENT

ABANDON WATER MAIN IN PLACE

PRESERVE CURB

SAWCUT LINE TO INSTALL WATER MAIN

PRESERVE CURB AND GUTTER

SAWCUT SIDEWALK AT NEAREST JOINT; COORDINATE FINAL LOCATION WITH OWNER

REMOVE GATE

REMOVE ALL PARKING LOT STRIPING

SAWCUT LINE TO INSTALL WATER MAIN

SAWCUT LINE

REMOVE FHA

ABANDON WATER MAIN IN PLACE

REMOVE AND SALVAGE FIRE LANE SIGN(S)

REMOVE INLET TOP AND PRESERVE BASE. ADD NEW MANHOLE TOP AT FINAL GRADE.

CUT SEWER AT DOGHOUSE MANHOLE AND REMOVE SEWER PIPE UPSTREAM

REMOVE OUTFALL
INV.=563.30' 15" RCP

REMOVE

SAWCUT PAVEMENT AND CONCRETE

SAWCUT LINE

ERADICATE ISLAND STRIPING

RELOCATE BOULDER COORDINATE WITH OWNER ON FINAL LOCATION.

PAINTED BOULDER

REMOVE AND SALVAGE FIRE LANE SIGN

REMOVE CURB (TYP.)

SAWCUT AND REMOVE ASPHALT

REMOVE STORM INLET W/ GRATE 2.5'x 2.5'
TOP=578.86'
INV. OUT=573.61' 15" RCP

REMOVE STOP + FIRE LANE SIGN ON METAL POST

REMOVE HAND RAIL

REMOVE STOP SIGN

REMOVE 8" ASBESTOS CEMENT

REMOVE MHS
TOP=576.83'
INV. IN=573.63' (SE)
INV. IN=569.33' 8" PVC (S)
INV. OUT=569.28' 8" PVC (NW)

COORDINATE RELOACTION OF FIBER OPTIC LINE WITH UTILITY OWNER

REMOVE U/G COMM FIBER

REMOVE CHAIN FENCE

REMOVE U/G POWER

REMOVE U/G NATURAL GAS (CITY OF CHARLOTTESVILLE)

REMOVE CHAIN FENCE

REMOVE MHS

REMOVE U/G COMM FIBER

LEGEND

- REMOVE TREE/ BUSH
- REMOVE BUILDING
- SAW CUT CURB SIDEWALK OR ASPHALT (SIDEWALKS AND CURB TO BE CUT AT NEAREST JOINT)
- REMOVE CONCRETE
- REMOVE ASPHALT

SCALE 1"=20'
0 20' 40'

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

DEMOLITION PLAN

C2.5

REMOVE LEVEL SPREADER AND RIRPAP

REMOVE CHAIN FENCE

CONTRACTOR TO SALVAGE AND WEATHER PROOF PER MANUFACTURES DIRECTIONS FOR LONG TERM STORAGE. RELOCATE FOR STORAGE TO ANOTHER PROPERTY WITHIN 30 MILES AT OWNERS DIRECTION. CONTRACTOR TO DISCONNECT AND REMOVE FOOTERS. DISCONNECT ALL UTILITIES AND DEMOLISH. BACK TO MAINLINE.

16" RED OAK

16" POPLAR

12" DEC.

16" POPLAR (X2)

MATCHLINE - SEE SHEET C2.6

REMOVE SOCCER FIELD

REMOVE SOCCER FIELD

4" MAPLE

REMOVE
INV. OUT=575.84' 8" HDPE

GOAL

TO BE RELOCATED BY OTHERS

SAWCUT AND REMOVE PORTION OF WALL

PRESERVE CANOPY

SAWCUT AT NEAREST JOINT

REMOVE WALL

SAWCUT LINE

REMOVE BOX PLANTERS (X6)

8" DEC. (X7)

8" DEC. (X3)

REMOVE AND SALVAGE SIGN AND POST. (TYP.)

PRESERVE AND REMOVE INLET WITH DI-1 AT PR
STORM INLET W/ G
TOP=578.03'
INV. IN=573.73' 15"
INV. OUT=573.68'

SAWCUT LINE

2" MAPLE

5" MAPLE

5" MAPLE

EOI

EOI

REMOVE

CONC. SWK & C&G

CONC. SWK & C&G

REMOVE
MHD W/ CURB INLET
TOP=579.30'
INV. OUT=573.80' 15" RCP

REMOVE LIGHT POLE AND FOUNDATION

REMOVE
MHD W/ CURB INLET
TOP=579.37'
INV. OUT=574.07' 15" RCP

QLD-DATR

24" RED OAK

REMOVE INLET TOP AND REPLACE WITH MANHOLE TOP AT PROPOSED GRADE.

STORM INLET W/ GRATE
TOP=571.77'
INV. IN=567.75' 15" RCP (SE)
INV. OUT=567.67' 15" RCP (SW)

PRESERVE PIPE WITH ASSUMED 6" CONNECTION FROM INLET TO THE EAST

STORM INLET W/ GRATE
TOP=570.73'
INV. IN=568.73' 6" PVC
INV. OUT=568.68' 6" PVC

STORM INLET W/ GRATE
TOP=570.91'
INV. OUT=568.71' 6" PVC

MATCHLINE - SEE SHEET C2.5

MHD
TOP=555.95'
INV. IN=550.80' 24" RCP (SE)
INV. OUT=550.62' 24" RCP (SW)

24" RCP

18" RCP

45m
549.74' 24" RCP (NE)
549.74' 24" RCP (SE)
INV.=549.64' 24" RCP (NW)

REMOVE EXISTING 6' FENCE

INLET W/ FLARED END SECTION
INV.=567.91' 15" RCP

STORM INLET W/ GRATE
2.4' x 2.4'
TOP=570.50'
INV. IN=566.75' 15" RCP (NE)
INV. IN=567.19' 15" RCP (SE)
INV. OUT=566.68' 15" RCP (SW)

STORM INLET W/ GRATE
2.2' x 2.4'
TOP=570.60'
INV. IN=567.06' 15" RCP (SE)
INV. OUT=567.05' 15" RCP (NE)

15" RCP

15" RCP

15" RCP

15" RCP

APPROX. LOCATION OF STORM SEWER PER AS-BUILTS

MHD
TOP=571.69'
INV. IN=566.57' 15" RCP (NE)
INV. IN=566.59' 15" RCP (SE)
INV. OUT=566.54' 15" RCP (NW)

STORM INLET W/ GRATE
2.2' x 2.6'
TOP=570.63'
INV. OUT=567.37' 15" RCP (SE)

MATCHLINE - SEE THIS SHEET

STORM INLET W/ GRATE
2.4' x 2.6'
TOP=570.72'
INV. IN=568.13' 8" PVC (SE)
INV. OUT=568.10' 8" PVC (NE)

MATCHLINE - SEE THIS SHEET

NOTE:
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4) ALL DEMO SHALL BE DONE IN ACCORDANCE WITH SCHEDULE ON G003 CONSTRUCTION SEQUENCING PLAN.

N

SCALE 1"=20'
0 20' 40'

LEGEND

- REMOVE TREE/ BUSH
- REMOVE BUILDING
- SAW CUT CURB SIDEWALK OR ASPHALT (SIDEWALKS AND CURB TO BE CUT AT NEAREST JOINT)
- REMOVE CONCRETE
- REMOVE ASPHALT

PATH & FILENAME:
PLOTTING DATE & TIME:

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RICHMOND, VA 23220

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No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

DEMOLITION PLAN

C2.6

NOTE:
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LAMBS LANE

REMOVE INV. OUT=565.81' 18" RCP W/ FLARED END

REMOVE 18" RCP

REMOVE INV. IN=565.90' 18" RCP W/ FLARED END

SAWCUT LINE

REMOVE GATE

REMOVE CHAIN FENCE

REMOVE INV. IN=568.90' 12" HDPE

REMOVE INV. OUT=568.83' 12" HDPE

ERADICATE STRIPING THAT CONFLICTS WITH PROPOSED STRIPING AND RECONFIGURATION ON THE LAYOUT PLAN

REMOVE SECTION OF SIDEWALK BEHIND CG-6.

REMOVE AND BRING CABLING BACK TO POWER POLE PER DOMINION REQUIREMENTS

ROW OF MOUNTED ELECTRIC BOXES

REMOVE PAVED PATH

REMOVE WOOD FENCE

REMOVE METAL RAMP

ONE-LEVEL METAL FRAME ACCESSORY BUILDING

FFE=574.82'

REMOVE RAMP

REMOVE PAVED PATH

REMOVE INV. IN=577.49' 8" HDPE

REMOVE INV. OUT=575.84' 8" HDPE

REMOVE LEVEL SPREADER AND RIRPAP

REMOVE CHAIN FENCE

CONTRACTOR TO SALVAGE AND WEATHER PROOF PER MANUFACTURES DIRECTIONS FOR LONG TERM STORAGE. RELOCATE FOR STORAGE TO ANOTHER PROPERTY WITHIN 30 MILES AT OWNERS DIRECTION. CONTRACTOR TO DISCONNECT AND REMOVE FOOTERS. DISCONNECT ALL UTILITIES AND DEMOLISH BACK TO MAINLINE.

GOAL

TO BE RELOCATED BY OTHERS

SAWCUT AND REMOVE PORTION OF WALL

PRESERVE CANOPY

SAWCUT AT NEAREST JOINT

REMOVE AND SALVAGE SIGN AND POST (TYP.)

CONC. SWK

EOI

MATCHLINE - SEE SHEET C2.7

21" POPLAR
28" RED OAK
16" MAPLE
16" MAPLE
15" RED OAK
16" POPLAR
16" RED OAK
16" POPLAR
12" DEC.
POPLAR (X2)
4" MAPLE
2" MAPLE
8" DEC. (X2)

LEGEND

- REMOVE TREE/ BUSH
- REMOVE BUILDING
- SAW CUT CURB SIDEWALK OR ASPHALT (SIDEWALKS AND CURB TO BE CUT AT NEAREST JOINT)
- REMOVE CONCRETE
- REMOVE ASPHALT

NAD 83

SCALE 1"=20'
0 20' 40'

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

DEMOLITION PLAN

C2.7

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT INCLUDES DEMOLITION OF THE EXISTING SCHOOL BUILDING SERVICES BUILDING AND CONSTRUCTION OF A NEW HIGH SCHOOL CENTER II BUILDING FOR SPECIALTY CLASSES, A NEW PARKING LOT, TWO NEW ROADS ON THE WEST AND NORTH SIDE OF THE HSC II BUILDING, NEW ADA PARKING/ACCESS FOR THE SHOTPUT AND DISCUS FIELDS, AND ASSOCIATED SITE WORK. LIMITS OF DISTURBANCE ARE 11.73 ACRES.

ADJACENT PROPERTY
THESE IMPROVEMENTS ARE BEING MADE WITHIN THE PROPERTY BOUNDARY. THE PROPERTY IS SHARED BY ALBEMARLE HIGH SCHOOL, JOURNEY MIDDLE SCHOOL, GREER ELEMENTARY SCHOOL AND THE IVY CREEK SCHOOL, AND IS BOUNDED BY HYDRAULIC ROAD TO THE EAST. RESIDENTIAL PROPERTIES SURROUND THE PARCEL THE SOUTH SIDE.

EXISTING SITE CONDITIONS
THE SITE IS AT THE LOCATION OF ALBEMARLE HIGH SCHOOL.

OFF-SITE AREAS
NO OFFSITE AREAS WILL BE DISTURBED.

CRITICAL EROSION AREAS
NO CRITICAL EROSION AREA EXIST. GEOTHERMAL WELL FIELD RUNOFF SHALL BE CONTROLLED AND FILTERED BY GEOTHERMAL DRILLING CONTRACTOR TO SATISFACTION OF THE OWNER AND COUNTY INSPECTORS.

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CURRENT ADDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

STORMWATER RUNOFF CONSIDERATIONS

STORMWATER QUALITY WILL BE TREATED THROUGH ON-SITE BIORETENTION AND A STORMKEEPER ISOLATOR ROW. REMAINING REQUIRED CREDITS WILL BE ACHIEVED THROUGH THE PURCHASE OF OFF-SITE CREDITS BY OWNER. STORMWATER QUANTITY WILL BE MANAGED THROUGH AN UNDERGROUND STORAGE PIPE AND THE REDUCTION OF IMPERVIOUS AREA.

EROSION AND SEDIMENT CONTROL MAINTENANCE
ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH VESCH AND THE CONSTRUCTION SEQUENCE, INCLUDING THE INSPECTION OF ALL MEASURES AFTER ALL RAIN EVENTS.

STRUCTURAL PRACTICES:
1. TEMPORARY CONSTRUCTION ENTRANCE - 3.02 A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE LOCATION INDICATED ON THE PLANS. IT IS IMPERATIVE THAT THIS MEASURE BE MAINTAINED THROUGHOUT CONSTRUCTION. ITS PURPOSE IS TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.
2. SILT FENCE BARRIER - 3.05 SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW AS INDICATED. ITS PURPOSE IS TO INTERCEPT SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS AND PREVENT SEDIMENT FROM LEAVING THE SITE.
3. STORM DRAIN INLET PROTECTION - 3.07 STONE FILTERS SHALL BE PLACED AT THE INLET OF ALL DRAINAGE STRUCTURES AS INDICATED ON PLANS. ITS PURPOSE IS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION.
4. CULVERT INLET PROTECTION - 3.08 A SEDIMENT FILTER LOCATED AT THE INLET TO A CULVERT TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM PRIOR TO PERMANENT STABILIZATION.
5. DIVERSION DIKE - 3.09 A TEMPORARY RIDGE OF COMPACTED SOIL TO DIVERT WATER FROM A CERTAIN AREA.
6. CULVERT INLET SEDIMENT TRAP - 3.08 A TEMPORARY RIPRAP BARRIER AROUND A CULVERT OR STORMWATER INLET WITH CONTROLLED STORMWATER RELEASE TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS LONG ENOUGH FOR THE MAJORITY OF SEDIMENT TO SETTLE OUT.
7. MAINTENANCE OF SEDIMENT TRAP - INSPECT TRAP EMBANKMENT WEEKLY TO ENSURE IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED DURING CONSTRUCTION ACTIVITIES. ADDITIONALLY THE TRAP SHALL BE CHECKED AFTER EVERY RAINFALL EVENT. SEDIMENT SHALL BE REMOVED AND THE IMPOUNDMENT RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH.
8. DUST CONTROL - 3.39 DUST CONTROL IS TO BE USED THROUGH THE SITE IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT.

VEGETATIVE PRACTICES:
9. TEMPORARY SEEDING - 3.31 ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OF THOSE AREAS. SELECTION OF THE SEED MIXTURE SHALL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
10. PERMANENT SEEDING - 3.32 FOLLOWING GRADING ACTIVITIES, ESTABLISH PERENNIAL VEGETATIVE COVER BY PLANTING SEED TO REDUCE EROSION, STABILIZE DISTURBED AREAS, AND ENHANCE NATURAL BEAUTY.

MANAGEMENT STRATEGIES
1. PROVIDE SEDIMENT TRAPPING MEASURES AS A FIRST STEP IN GRADING, SEED AND MULCH IMMEDIATELY FOLLOWING INSTALLATION.
2. PROVIDE TEMPORARY SEEDING OR OTHER STABILIZATION IMMEDIATELY AFTER GRADING.
3. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW.

PERMANENT STABILIZATION
ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.32, PERMANENT SEEDING. SEED TYPE SHALL BE AS SPECIFIED FOR "MINIMUM CARE LAWNS" AND "GENERAL SLOPES" IN THE HANDBOOK FOR SLOPES LESS THAN 3:1. FOR SLOPES GREATER THAN 3:1, SEED TYPE SHALL BE AS SPECIFIED FOR "LOW MAINTENANCE SLOPES" IN TABLE 3.32-D THE HANDBOOK. FOR MULCH (STRAW OR FIBER) SHALL BE USED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE APPLIED PRIOR TO MULCH.

SEQUENCE OF INSTALLATION:
PHASE IA - SHEET C3.2 (BUILDING SITE)
1. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE COUNTY OF ALBEMARLE E&S INSPECTOR, CONTRACTOR, OWNER, AND ENGINEER. THIS MEETING SHALL TAKE PLACE ON SITE.
2. PRIOR TO DEMOLITION BEGINNING, INSTALL SAFETY FENCE, TREE PROTECTION, INLET PROTECTION, CONSTRUCTION ENTRANCES SILT FENCE, DIVERSION DIKES, ETC.
3. AFTER ALL MEASURED INSTALLED, COORDINATE INSPECTION OF COUNTY E&S INSPECTOR. DEMOLISH EXISTING BUILDING, DRIVES, PARKING AROUND BUILDING.

PHASE IB - SHEET C3.3 (BUILDING SITE)
1. INSTALL ALL THE PERMANENT STORMWATER STRUCTURE BASES AND PIPES SHOWN IN SHEET C3.3. BEFORE BEGINNING MASS GRADING FOR THE BUILDING AREA. THROUGH GRADING FOR THE PROPOSED ROADS AND BUILDING CONTRACTOR SHALL KEEP THE AREA OF DRAINAGE TO EACH INLET PROTECTED STRUCTURE UNDER 1 ACRE THROUGH GRADING AND DIVERSION DIKES.
2. CLEAR AND GRUB PROJECT SITE AREA. REMOVE UTILITY LINES AS SHOWN IN DEMOLITION PLAN, COORDINATE REMOVAL WITH OWNER AND UTILITY PROVIDER.
3. PROVIDE TEMPORARY SEEDING AND DUST CONTROL.
4. CONTRACTOR MAY CONTINUE TO NEXT PHASE AFTER PERMISSION GRANTED BY THE E&S INSPECTOR.

PHASE I - SHEET C3.3 (PARKING LOT SITE)
1. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE COUNTY OF ALBEMARLE E&S INSPECTOR, CONTRACTOR, OWNER, AND ENGINEER. THIS MEETING SHALL TAKE PLACE ON SITE.
2. PRIOR TO DEMOLITION BEGINNING, INSTALL SAFETY FENCE, TREE PROTECTION, INLET PROTECTION, CONSTRUCTION ENTRANCE SILT FENCE, DIVERSION DIKES, ETC.
3. AFTER ALL MEASURED INSTALLED, COORDINATE INSPECTION OF COUNTY E&S INSPECTOR. INSTALL ALL THE PERMANENT AND TEMPORARY STORMWATER STRUCTURES BASES AND PIPES SHOWN IN SHEET C3.3 AND C3.4.
4. DEMOLISH DRIVES, PARKING, CLEAR AND GRUB PROJECT SITE AREA. REMOVE UTILITY LINES AS SHOWN IN DEMOLITION PLAN, COORDINATE REMOVAL WITH OWNER AND UTILITY PROVIDER.
5. PROVIDE TEMPORARY SEEDING AND DUST CONTROL.
6. CONTRACTOR MAY CONTINUE TO NEXT PHASE AFTER PERMISSION GRANTED BY THE E&S INSPECTOR.

PHASE II - SHEET C3.5 (BUILDING SITE)
1. MODIFY SAFETY FENCE, DIVERSIONS DIKES AND OTHER SHOWN PROTECTION MEASURES AS SHOWN ON SHEET C3.3.
2. AFTER INSPECTION OF E&S INSPECTOR, CONTRACTOR MAY BEGIN SITE GRADING AND CONSTRUCTION OF STORM SYSTEM. INSTALL INLET PROTECTIONS AND INSTALL UTILITY NETWORK PER PLANS AND COMPLETE GRADING.
3. STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING AS SHOWN.
4. CONTRACTOR MAY CONTINUE CONSTRUCTING OTHER SITE ELEMENTS.
5. STABILIZE REMAINING DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING AS SHOWN.
6. AS CONSTRUCTION IS COMPLETED AND APPROVED BY E&S INSPECTOR, EROSION CONTROL MEASURES CAN BE REMOVED.

PHASE II - SHEET C3.5 (PARKING LOT SITE)
7. MODIFY SAFETY FENCE, DIVERSIONS DIKES AND OTHER SHOWN PROTECTION MEASURES AS SHOWN ON SHEET C3.4.
8. AFTER INSPECTION OF E&S INSPECTOR, CONTRACTOR MAY BEGIN SITE GRADING AND CONSTRUCTION OF STORM SYSTEM AND INSTALL INLET PROTECTIONS.
9. INSTALL UTILITY LINES IF REQUIRED PER PLANS AND COMPLETE GRADING.
10. STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING AS SHOWN.
11. CONTRACTOR MAY CONTINUE CONSTRUCTING OTHER SITE ELEMENTS.
12. STABILIZE REMAINING DISTURBED AREAS WITH PERMANENT SEEDING AND MULCHING AS SHOWN.
13. AS CONSTRUCTION IS COMPLETED AND APPROVED BY E&S INSPECTOR, EROSION CONTROL MEASURES CAN BE REMOVED.

MINIMUM STANDARDS:

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:
MS-1. PERMANENT OR TEMPORARY SOIL STABILIZATION 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 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
MS-2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
MS-7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
MS-12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
MS-14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
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 ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
MS-17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
MS-19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE STANDARDS AND CRITERIA LISTED IN SECTION 19 OF VIRGINIA ADMINISTRATIVE CODE 9VAC25-840-40 MINIMUM STANDARDS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

ES-1: UNLESS OTHERWISE INDICATED, CONSTRUCT AND MAINTAIN ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
ES-2: THE CONTROLLING EROSION AND SEDIMENT CONTROL AUTHORITY WILL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS AND EFFECTIVENESS OF THE EROSION CONTROL PLAN.
ES-3: PLACE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING, OR LAND DISTURBANCE.
ES-4: MAINTAIN A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN ON THE SITE AT ALL TIMES.
ES-5: PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFFSITE BORROW OR WASTE AREA), SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE ARCHITECT/ENGINEER AND THE CONTROLLING EROSION AND SEDIMENT CONTROL AUTHORITY FOR REVIEW AND ACCEPTANCE.
ES-6: PROVIDE ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESPONSIBLE LAND DISTURBER. (MODIFIED NOTE)
ES-7: ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT.
ES-8: DURING DEWATERING OPERATIONS, PUMP WATER INTO AN APPROVED FILTERING DEVICE.
ES-9: INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF- PRODUCING RAINFALL EVENT. MAKE ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES IMMEDIATELY.

SOILS INFORMATION:

21B - CULPEPER FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES. 40 TO 79 INCHES TO LITHIC BEDROCK; 40 TO 79 INCHES TO PARALITHIC BEDROCK, WELL DRAINED. HYDROLOGIC SOIL GROUP: B.

21C - CULPEPER FINE SANDY LOAM, 7 TO 15 PERCENT SLOPES. 40 TO 79 INCHES TO LITHIC BEDROCK; 40 TO 79 INCHES TO PARALITHIC BEDROCK, WELL DRAINED. HYDROLOGIC SOIL GROUP: B.

65B - FAIRVIEW SANDY LOAM, 2 TO 7 PERCENT SLOPES. MORE THAN 80 INCHES TO RESTRICTIVE FEATURES, WELL DRAINED. HYDROLOGIC SOIL GROUP: B.

65C - FAIRVIEW SANDY LOAM, 7 TO 15 PERCENT SLOPES. MORE THAN 80 INCHES TO RESTRICTIVE FEATURES, WELL DRAINED. HYDROLOGIC SOIL GROUP: B.

88 - UDORTHENTS, LOAMY, 2 TO 25 SLOPES. MORE THAN 80 INCHES TO RESTRICTIVE FEATURES. NO DEFINED HYDROLOGIC SOIL CLASSIFICATION.

CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED FOR CONSTRUCTION RECORD DRAWINGS TO COUUNTY FOR REVIEW AND APPROVAL.

COUNTY OF ALBEMARLE
Department of Community Development

Construction Record Drawings (As-built) for VSMP

The following is a list of information required on construction record drawings for stormwater facilities (reference Water Protection Ordinance 17-422). *It is preferable that the construction record drawing be prepared by someone other than the designer. Please do not provide design drawings as construction record drawings.*

A. A signed and dated professional seal of the preparing engineer or surveyor.
B. The name and address of the firm and individual preparing the drawings on the title sheet.
C. The constructed location of all items associated with each facility, and the inspection records to verify proper dimensions, materials and installation. The items include, but are not limited to the following:
1. **Inspection Records** and photographs for pipe trenches and bedding, including underdrains.
2. **Video Pipe Inspection** for any pipes which are not accessible or viewable.
3. **Updated Location** with geo-coordinates of all facilities.
4. **Verified Drainage Area maps** for the drainage area treated, and for drainage to the facilities.
5. **Current physical and topographic survey** for all earthen structures. Ponds should include a survey of the pond bottom. Surveys should verify pond volumes are per design. Corrections may be required for alterations from the design.
6. **Plants, location and type**.
7. **Plans and profiles for all culverts, Pipes, Risers, Weirs and Drainage Structures** - Display the installed type of drainage structures, culvert/pipe size, weirs, materials, inlets or end treatment(s), inlet and outlet protection, alignment and invert elevations compared to design.
8. **Computations:** For significant deviations from design, provide sealed computations verifying that the as-built condition is equivalent or better than design.
9. **Ditch Lines** - Display the constructed location of all ditch lines and channels, including typical sections and linings.
10. **Easements** - Show all platted easements with dead book references labeled. Facilities and drainage must be within platted easements. Provide copies of recorded documents.
11. **Guardrail, fences or other safety provisions** - Display the constructed location of all safety provisions; fences, guardrail, including the type, length and applied end treatments, compared to design.
12. **Material layers** – biofilter media, stone layers, sand layers, keyways and cores must be verified as to material types and depths. Include inspection reports, boring or test pit reports and materials certifications. Biofilter media must be an approved state mix.
13. **Access roads** – show location of access roads, surface treatment, drainage, etc, as applicable.
14. **Compaction reports** are required to verify fill compaction in dams.
15. **Manufacturers certifications** for proprietary BMP's certifying proper installation and functioning.

PATH & FILENAME:
PLOTTING DATE & TIME:
J:\Projects\Albemarle_County_Public_Schools\New_High_School_Center_II\Drawings\Sheets\CD\45841-C3-ECND.dwg | Plotted on 10/2/2024 11:53 AM | by Scott Kirby

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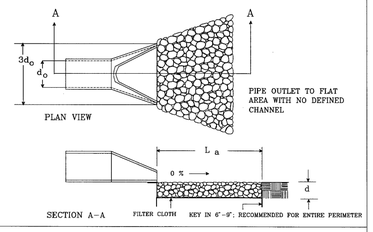
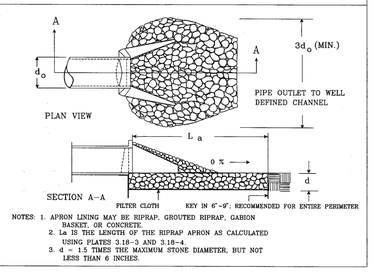
ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL NOTES & DETAILS

C3.0

PIPE OUTLET CONDITIONS





NOTES: 1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
2. La IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18–3 AND 3.18–4.
3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

Source: Va. DSWC

Plate 3.18-1

Excavated drop inlet sediment trap design

Inlet # 304 (Sheet C3.3)
Drainage Area (Acres) (<1) 0.83
Trap Volumes:

Eelevation (ft)	Area (SF)	Volume (CY)
567	441	
568	625	19.7
569	834	27.0
570	1069	35.2
571	1330	44.4
		126.4

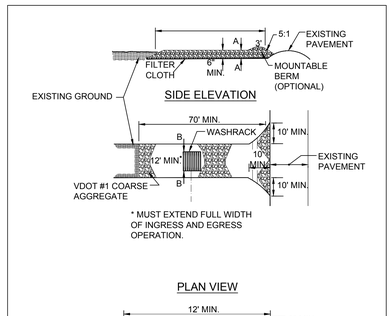
Wet Storage:
Wet Storage Required (CY) (134*DA) 111.2
Bottom of Excavation (ft) 567.00
Top Of Inlet Elevation (Ft) 569.00
Wet Sorage Provided at This Elevation (CY: 126.4
Slope of Wet Storage Sides 2:1

Excavated drop inlet sediment trap design

Temp. Inlet (Sheet C3.3)
Drainage Area (Acres) (<1) 0.95
Trap Volumes:

Eelevation (ft)	Area (SF)	Volume (CY)
565	358	
565.5	441	7.4
566.5	625	19.7
567.5	834	27.0
568.5	1069	35.2
569.5	1330	44.4
		133.8

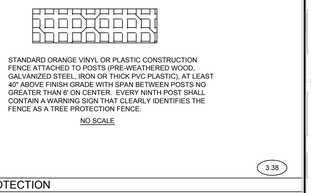
Wet Storage:
Wet Storage Required (CY) (134*DA) 127.3
Bottom of Excavation (ft) 565.00
Top Of Inlet Elevation (Ft) 567.00
Wet Sorage Provided at This Elevation (CY: 133.8
Slope of Wet Storage Sides 2:1



0 3.02-1

STONE CONSTRUCTION ENTRANCE

No Scale



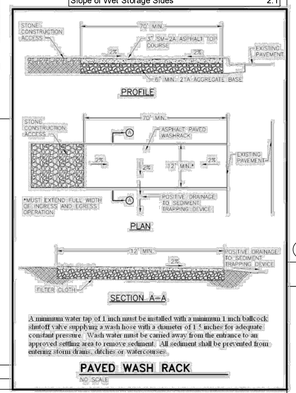
STANDARD ORANGE VINYL OR PLASTIC CONSTRUCTION FENCE ATTACHED TO POSTS (PRE-WEATHERED WOOD, GALVANIZED STEEL, IRON OR THICK PVC PLASTIC), AT LEAST 40" ABOVE FINISH GRADE WITH SPAN BETWEEN POSTS NO GREATER THAN 6' ON CENTER. EVERY NINTH POST SHALL CONTAIN A WARNING SIGN THAT CLEARLY IDENTIFIES THE FENCE AS A TREE PROTECTION FENCE.

NO SCALE

TP 3.38

TREE PROTECTION

No Scale



A minimum water tap of 1 inch must be installed with a minimum 1 inch ballcock shutoff valve supplying a wash hose with a diameter of 1.5 inches for adequate constant pressure. Wash water must be carried away from the entrance to an approved settling area to remove sediment. All sediment shall be prevented from entering storm drains, ditches or watercourses.

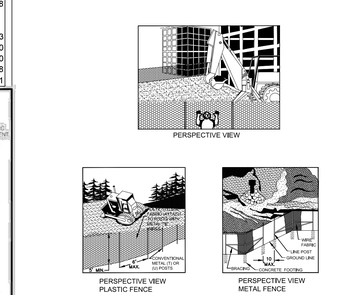
PAVED WASH RACK

NO SCALE

DD CWD 3.09-1

TEMPORARY DIVERSION DIKE

No Scale

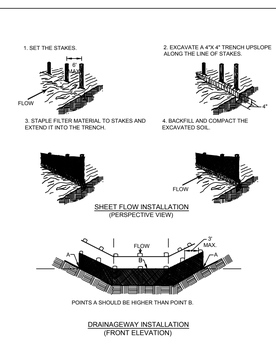


SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

IP 3.07-1

STORM DRAIN INLET PROTECTION

No Scale



SF 3.05-2

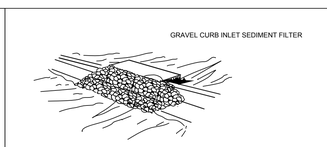
SILT FENCE

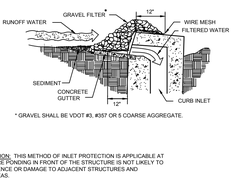
No Scale

SF 3.10

SAFETY FENCE

No Scale





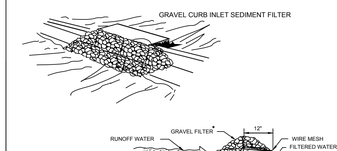
* GRAVEL SHALL BE VDOT #3, #357 OR 5 COARSE AGGREGATE.

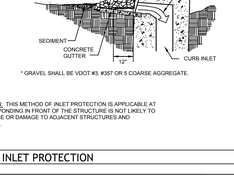
SPECIFIC APPLICATION: THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

IP 3.07- 6

STORMWATER INLET PROTECTION

No Scale





* GRAVEL SHALL BE VDOT #3, #357 OR 5 COARSE AGGREGATE.

SPECIFIC APPLICATION: THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

IP 3.07- 6

STORMWATER INLET PROTECTION

No Scale

TABLE 3.32-D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

	TOTAL LBS. PER ACRE
MINIMUM CARE LAWN	
COMMERCIAL OR RESIDENTIAL	175-200 LBS.
TURF-TYPE TALL FESCUE	90-100%
IMPROVED PERENNIAL RYEGRASS	0-5%
KENTUCKY BLUEGRASS	0-5%
GENERAL SLOPE (3:1 OR LESS)	
TURF-TYPE TALL FESCUE	128 LBS.
RED TOP GRASS	2 LBS.
SEASONAL NURSE CROP *	20 LBS.
	150 LBS.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	
* SEE SLOPE STABILIZATION SEED MIX	

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:
FEBRUARY 16TH THROUGH APRIL..... ANNUAL RYE
MAY 1ST THROUGH AUGUST 15TH..... FOXTAIL MILLET
AUGUST 16TH THROUGH OCTOBER..... ANNUAL RYE
NOVEMBER THROUGH FEBRUARY 15TH..... WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWNVETCH EAST OF FARMVILLE, VA (MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNVETCH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10-20 LBS./ACRE IN MIXES.

PS 3.32

PERMANENT SEEDING MIX FOR PIEDMONT AREA

No Scale

TABLE 3.31-B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
QUICK REFERENCE FOR ALL REGIONS

PLANTING DATES	SPECIES	RATE (LBS./ACRE)
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50-100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60-100
MAY 1 - AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50

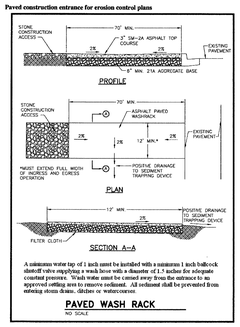
TS 3.31

TEMPORARY SEEDING PLANT MATERIALS

No Scale

Albemarle County
Engineering Review Reference Details
Page 3 of 4

Paved construction entrance for erosion control plans



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PAVED WASH RACK

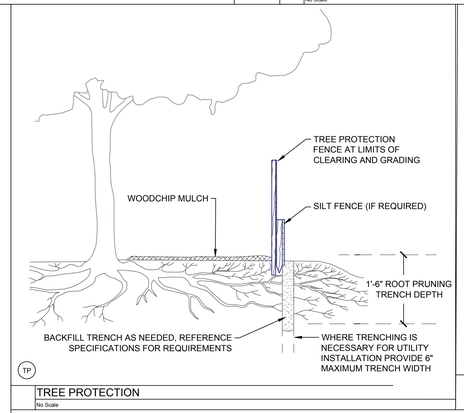
NO SCALE

(16 Jan 2003)

PCE 3.02

PAVED CONSTRUCTION ENTRANCE

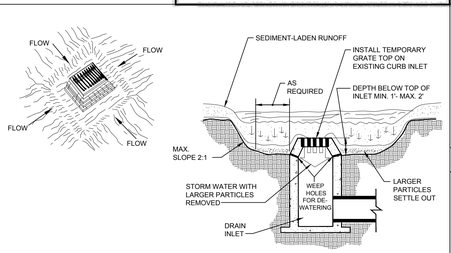
No Scale



TP

TREE PROTECTION

No Scale



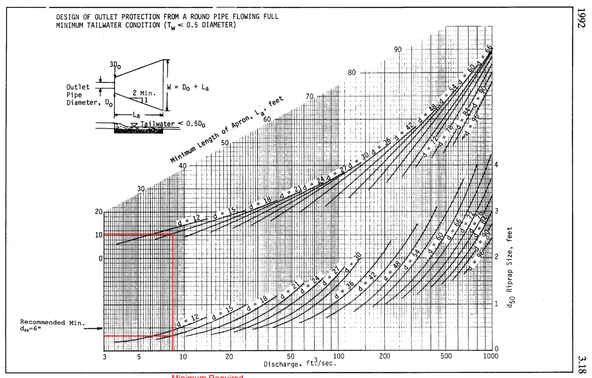
SOURCE:
VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, 1992, PLATE 3.07-4

ST 3.07-4

EXCAVATED DROP INLET SEDIMENT TRAP

No Scale

Source: USDA-SCS



III - 164

Plate 3.18-3

1992

3.18

Minimum Required Dimensions for OP-A
Do = 18", 1.5'
Q10 = 7.76 CFS
La = 10'
3Do = 4.5'
W = 1.25 + 10 = 11.5'

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SUITE 400
RICHMOND, VA 23220
v 804.788.4774
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COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41991390

ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL NOTES & DETAILS

C3.1

PATH & FILENAME:
PLOTTING DATE & TIME:

EROSION CONTROL LEGEND

		*
LOD	LIMITS OF CLEARING AND GRADING	-
	SOIL AREA DIVIDE	-
	DRAINAGE DIVIDE	-
SAF — SAF	SAFETY FENCE	3.01

NOTE: CONTRACTOR TO COORDINATE LOCATIONS OF SAF WITH ACPS FOR PHASING OF PROJECT AND RELOCATE OR PROVIDED ADDITIONAL FENCING AS NEEDED.

CE	CONSTRUCTION ENTRANCE	3.02
SF	SILT FENCE	3.05
SSF	SUPER SILT FENCE	3.05
IP	INLET PROTECTION	3.07
OP	OUTLET PROTECTION	3.18
DD	DIVERSION DIKE	3.09
TS	TEMPORARY SEEDING	3.31
PS	PERMANENT SEEDING	3.32
MU	MULCHING	3.35
TP — TP	TREE PROTECTION	3.38
DC	DUST CONTROL	3.39

* "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" SPECIFICATION NUMBER

SOIL TYPE: 65C

SOIL TYPE: 65B

SOIL TYPE: 65C

MATCHLINE SEE SHEET C3.4

NOTE: SAF TO SERVE AS TP IN THESE LOCATIONS

CONTRACTOR TO DIVERT ALL WATER FROM DISTURBANCE AREA TO INLET WITH INLET PROTECTION. PREVENT WATER FROM FLOWING TO THE SOUTH.

NOTE: SAF TO SERVE AS TP IN THESE LOCATIONS

UNNAMED ENTRANCE ROAD AKA "GEORGETOWN GREEN" VAR. WIDTH R/W DB. 440, PG. 197 | DB. 440, PG. 74 TOOT PROJ# 0743-002-153

STATE ROUTE 743 - HOOKS MILL RD. VAR. WIDTH R/W

N46°49'25"W 54.80'

N51°48'29"W 188.55'

PATH & FILENAME:
PLOTTING DATE & TIME:

NORTH

SCALE 1"=30'
0 30' 60'

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SUITE 400
RICHMOND, VA 23220

v 804.788.4774

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Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL PLAN - PHASE IA

C3.2

EROSION CONTROL LEGEND

		*
LOD	LIMITS OF CLEARING AND GRADING	-
	SOIL AREA DIVIDE	-
	DRAINAGE DIVIDE	-
SAF	SAFETY FENCE	3.01
CE	CONSTRUCTION ENTRANCE	3.02
SF	SILT FENCE	3.05
SSF	SUPER SILT FENCE	3.05
IP	INLET PROTECTION	3.07
OP	OUTLET PROTECTION	3.18
DD	DIVERSION DIKE	3.09
TS	TEMPORARY SEEDING	3.31
PS	PERMANENT SEEDING	3.32
MU	MULCHING	3.35
TP	TREE PROTECTION	3.38
DC	DUST CONTROL	3.39

* "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" SPECIFICATION NUMBER

BUILDING PAD GRADING NOTES:

1. CONTRACTOR TO BUILD THE PROPOSED PIPE AND INLET BASES SHOWN BEFORE BEGINNING MASS GRADING FOR THE BUILDING PAD.
2. THROUGHOUT GRADING FOR THE PROPOSED ROADS AND BUILDING PAD THE CONTRACTOR SHALL KEEP THE AREA OF DRAINAGE TO EACH INLET PROTECTED STRUCTURE TO LESS THAN 1 ACRE THROUGH GRADING AND DIVISIONS DIKES.

MATCHLINE SEE SHEET C3.2

SOIL TYPE: 65C

SOIL TYPE: 65B

SOIL TYPE: 65C

APPROXIMATE DRAINAGE AREA = 0.81 AC

APPROXIMATE DRAINAGE AREA = 0.54 AC

APPROXIMATE DRAINAGE AREA = 0.64 AC

APPROXIMATE DRAINAGE AREA TO = 0.84 AC

DRAINAGE AREA TO INLET = 0.83 AC

PROPOSED BUILDING FFE = 578

VDOT STD CLASS A1 RIPRAP
WIDTH 1 = 3.75'
WIDTH 2 = 11.25'
LENGTH = 10'
DEPTH = 18"

NOTE: SAF TO SERVE AS TP IN THESE LOCATIONS

INSTALL THESE STORMWATER PIPES AND STRUCTURE BASES IN THIS PHASE, TO DIVERT WATER TO AND FILTER THROUGH INLET PROTECTION IN PHASE IB

CONTRACTOR TO DIVERT ALL WATER FROM DISTURBANCE AREA TO INLET WITH INLET PROTECTION. PREVENT WATER FROM FLOWING TO THE SOUTH.

NOTE: SAF TO SERVE AS TP IN THESE LOCATIONS

UNNAMED ENTRANCE ROAD AKA 'GEORGETOWN GREEN'
VAR. WIDTH R/W
DB. 440, PG. 107 | DB. 440, PG. W
VDOT PROJ# 0743-002-103

STATE ROUTE 743 - HYDRAULIC RD.
VAR. WIDTH R/W

CONC. WALL

CONC. SWK & CRG.

ASBESTOS CEMENT

OLD DATR

U/G POWER

U/G GAS

U/G TEL

WOOD WALL

PATH & FILENAME:
PLOTTING DATE & TIME:

SCALE 1"=30'
0 30' 60'

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DRAWN BY: S. Kirby/A. Flint

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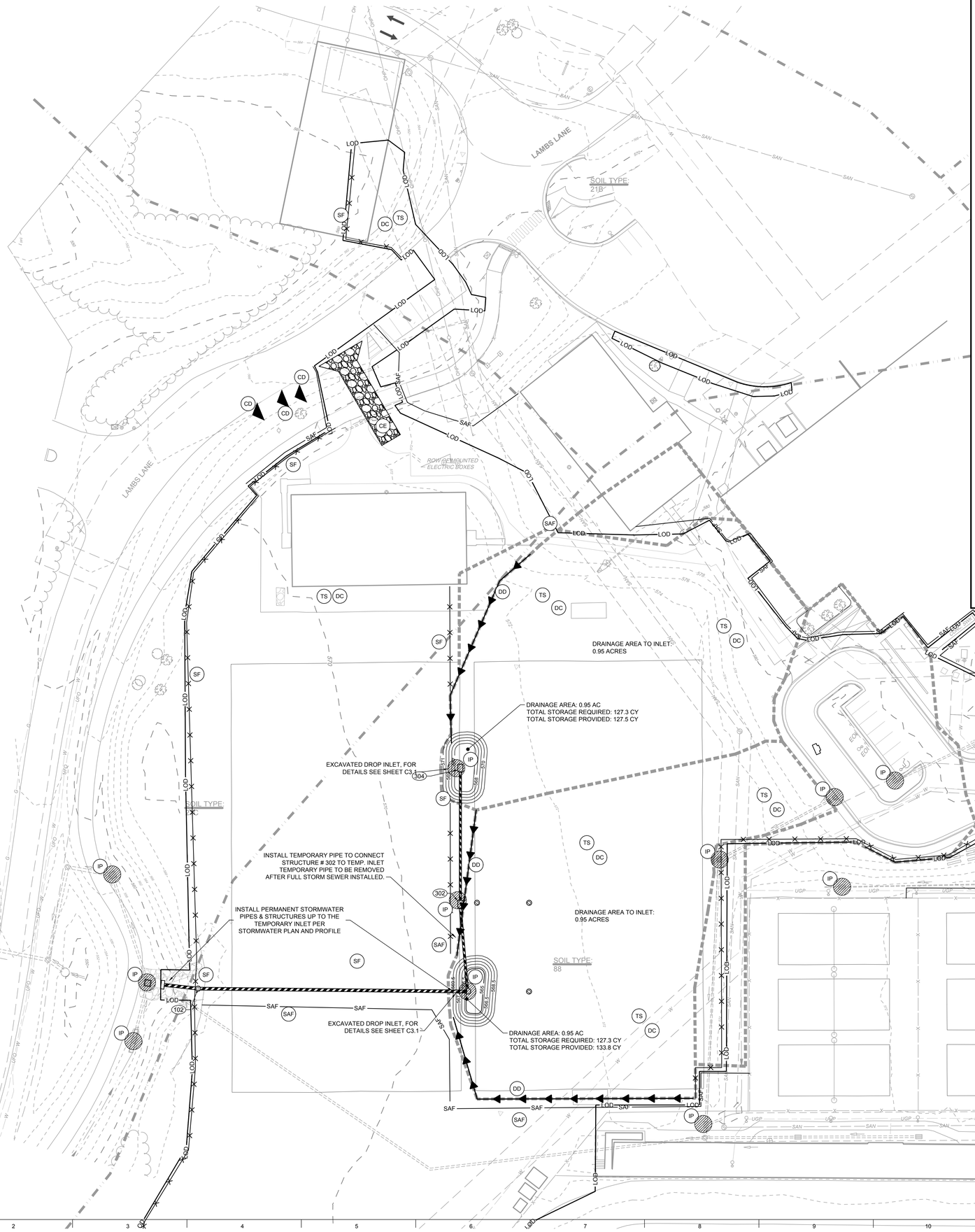
ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL PLAN - PHASE IB

C3.3



EROSION CONTROL LEGEND

		*
LOD	LIMITS OF CLEARING AND GRADING	-
	SOIL AREA DIVIDE	-
	DRAINAGE DIVIDE	-
SAF	SAFETY FENCE	3.01
CE	CONSTRUCTION ENTRANCE	3.02
SF	SILT FENCE	3.05
SSF	SUPER SILT FENCE	3.05
IP	INLET PROTECTION	3.07
OP	OUTLET PROTECTION	3.18
DD	DIVERSION DIKE	3.09
CD	ROCK CHECK DAMS	3.20
TS	TEMPORARY SEEDING	3.31
PS	PERMANENT SEEDING	3.32
MU	MULCHING	3.35
TP	TREE PROTECTION	3.38
DC	DUST CONTROL	3.39

* "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" SPECIFICATION NUMBER

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DRAWN BY: S. Kirby/A. Flint

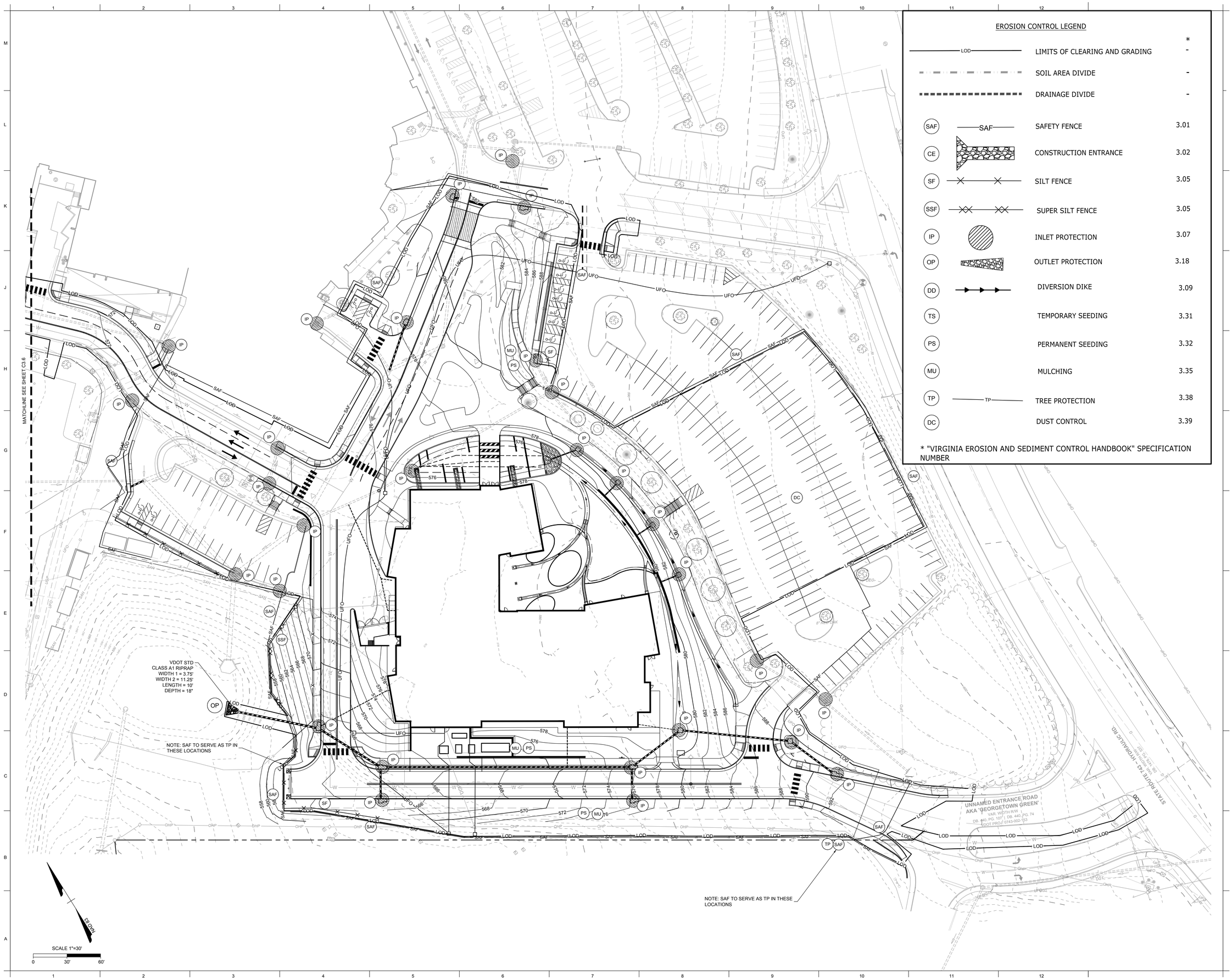
QEA No.41911390

ARB - SECOND SUBMISSION 10/02/2024

EROSION & SEDIMENT CONTROL PLAN - PHASE I

C3.4

PATH & FILENAME:
PLOTTING DATE & TIME:



EROSION CONTROL LEGEND

		*
LOD	LIMITS OF CLEARING AND GRADING	-
	SOIL AREA DIVIDE	-
	DRAINAGE DIVIDE	-
SAF	SAFETY FENCE	3.01
CE	CONSTRUCTION ENTRANCE	3.02
SF	SILT FENCE	3.05
SSF	SUPER SILT FENCE	3.05
IP	INLET PROTECTION	3.07
OP	OUTLET PROTECTION	3.18
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2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL PLAN - PHASE II

C3.5

PATH & FILENAME:
PLOTTING DATE & TIME:

MATCHLINE SEE SHEET

MATCHLINE SEE SHEET

MATCHLINE SEE SHEET C3.5

THIS PORTION OF STORM NETWORK WAS BUILT IN PHASE1 OF ECS

SEE ATHLETIC FIELD TURF REQUIREMENTS FOR FINE GRADING, TOPSOIL, SOIL AMENDMENTS AND FERTILIZERS ON SHEETS L3.0 AND L3.1.

LAMBS LANE

NO CONNECTION

U/G POWER (DOMINION ENERGY)

U/G POWER (PRIVATE)

ROW OF MOUNTED ELECTRIC BOXES

	SOIL AREA DIVIDE		-
	DRAINAGE DIVIDE		-
SAF	SAF	SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	3.05
IP		INLET PROTECTION	3.07
OP		OUTLET PROTECTION	3.18
DD		DIVERSION DIKE	3.09
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP	TP	TREE PROTECTION	3.38
DC		DUST CONTROL	3.39

* "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" SPECIFICATION NUMBER

SCALE 1"=30'
0 30' 60'

NAD 83

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS

1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

v 804.788.4774

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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO.
002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

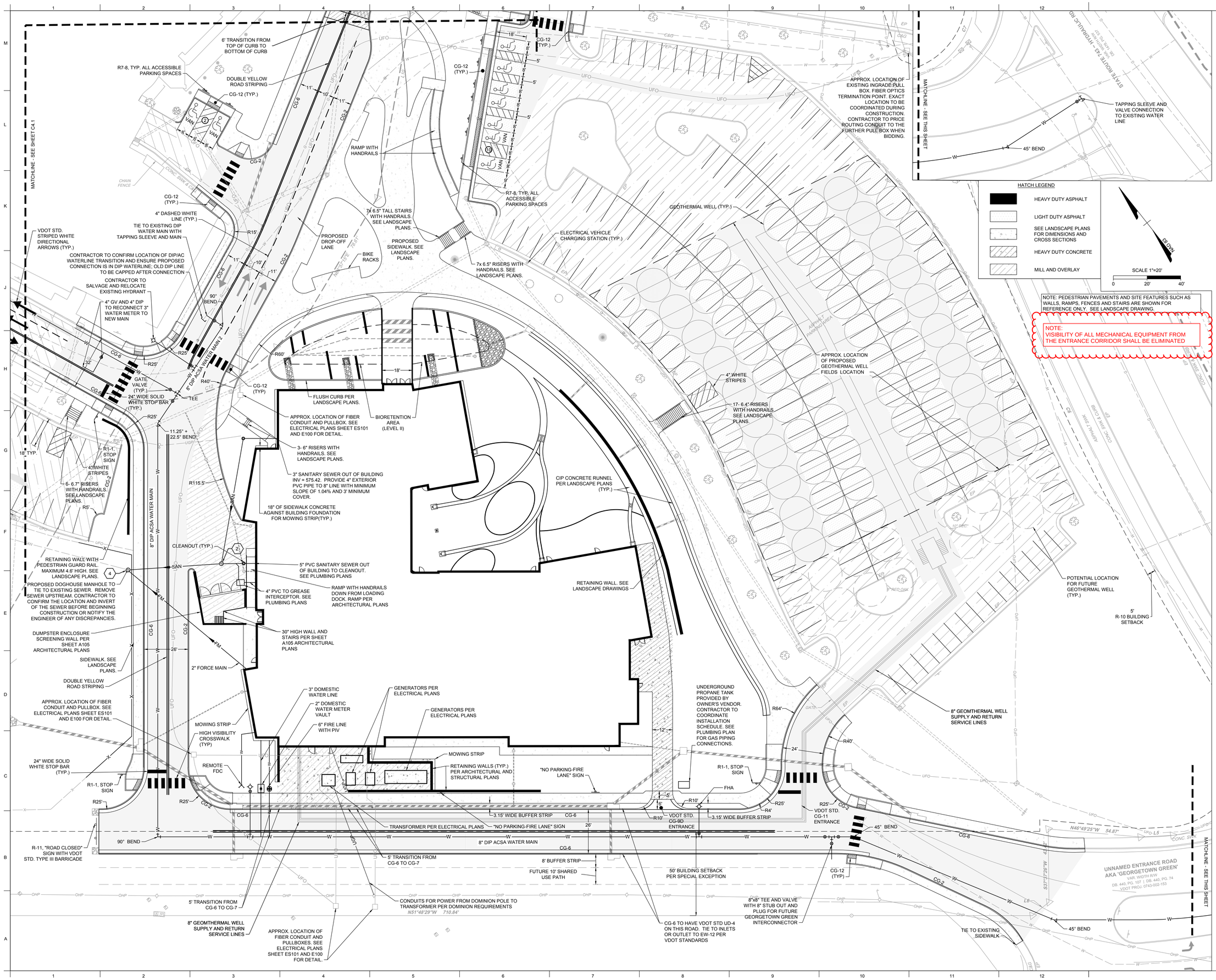
PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

EROSION & SEDIMENT CONTROL PLAN - PHASE II

C3.6



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No.	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

BID DOCUMENTS
10/08/2024

SITE PLAN

C4.0

MATCHLINE SEE SHEET C4.2

MATCHLINE - SEE SHEET C4.0

MATCHLINE - SEE THIS SHEET

CONTINUE CONCRETE FLUME WITHOUT GRATE THROUGH SPEED TABLE RAMPS.

DROP OFF AND PICKUP SIDEWALK. SEE LANDSCAPE PLANS.

RAMP WITH HANDRAILS. SEE LANDSCAPE PLANS

CG-12 TYP.

CG-12 RAMP DOWN TO LANDING

CONNECT TO EXISTING CURB AND GUTTER

RAISED PEDESTRIAN CROSSWALK (TYP)

FLUME WITH METAL GRATE (TYP.)

HIGH VISIBILITY CROSSWALK (TYP)

4" DASHED WHITE LINE (TYP)

CUT EXISTING WATERLINE AND TIE IN NEW WATERLINE THROUGH SPEED TABLE RAMPS.

GATE VALVE (TYP.)

TIE TO EXISTING SIDEWALK AND CURB

TIE TO EXISTING SIDEWALK

8" DIP ACSA WATER MAIN

22.5° BEND

LIMIT OF SURVEY

RAISE ANY EXISTING ACTIVE VALVES TO REMAIN TO EXISTING GRADE.

TIE TO EXISTING CONCRETE RAMP

TIE TO EXISTING SIDEWALK

CG-6

FLUME WITH METAL GRATE (TYP.)

TIE TO EXISTING SIDEWALK

RECONNECT EXISTING WATER METER TO NEW MAIN. 8"X4" TEE AND 4" GATE VALVE TO 2" COPPER LINE TO VAULT

CONTRACTOR TO LOCATE VALVE AND WATERLINE TO BOILER ROOM AND CONNECT TO NEW MAIN. COORDINATE WITH ACSA AND ACPS.

11.25° BEND

8" DIP ACSA WATER MAIN

LIMIT OF SUE INFO

20' CG-7 ENTRANCE

REPLACE SIDEWALK; TIE TO EXISTING, MATCH ELEVATIONS

5' TRANSITION FROM CG-6 TO CG-7

9' TYP.

18' TYP.

CG-12 TYP.

R7-8, TYP. ALL ACCESSIBLE PARKING SPACES

SIDEWALK. SEE LANDSCAPE PLANS.

6" CURB WITH GUTTER PITCHING AWAY FROM CURB TO MATCH EXISTING

6" TRANSITION FROM TOP OF CURB TO BOTTOM OF CURB

24" WIDE SOLID WHITE STOP BAR (TYP.)

26' TOP OF SPEED TABLE FLUSH WITH TOP OF CURB

TIE TO EXISTING (TYP.)

DOUBLE YELLOW ROAD STRIPING

5- 7" STAIRS WITH HANDRAILS. SEE LANDSCAPE PLANS.

R1-1, STOP SIGN

6" TRANSITION FROM TOP OF CURB TO BOTTOM OF CURB

R7-8, TYP. ALL ACCESSIBLE PARKING SPACES

DOUBLE YELLOW ROAD STRIPING

CG-12 (TYP.)

RAMP WITH HANDRAILS

7x 6.5" TALL STAIRS WITH HANDRAILS. SEE LANDSCAPE PLANS.

PROPOSED DROP-OFF LANE

PROPOSED SIDEWALK. SEE LANDSCAPE PLANS.

BIKE RACKS

7x 6.5" RISERS WITH HANDRAILS. SEE LANDSCAPE PLANS.

CG-12 (TYP.)

4" DASHED WHITE LINE (TYP.)

TIE TO EXISTING DIP WATER MAIN WITH TAPPING SLEEVE AND MAIN

VDOT STD. STRIPED WHITE DIRECTIONAL ARROWS (TYP.)

CONTRACTOR TO CONFIRM LOCATION OF DIP/AC WATERLINE TRANSITION AND ENSURE PROPOSED CONNECTION IS IN DIP WATERLINE; OLD DIP LINE TO BE CAPPED AFTER CONNECTION

CONTRACTOR TO SALVAGE AND RELOCATE EXISTING HYDRANT

4" GV AND 4" DIP TO RECONNECT 3" WATER METER TO NEW MAIN

90° BEND

8" DIP ACSA WATER MAIN 2

GATE VALVE (TYP.)

24" WIDE SOLID WHITE STOP BAR (TYP.)

TEE

11.25° + 22.5° BEND

R1-1, STOP SIGN

4" WHITE STRIPES

8" DIP ACSA WATER MAIN

CLEANOUT (TYP.)

RETAINING WALL WITH PEDESTRIAN GUARD RAIL. MAXIMUM 4.6' HIGH. SEE LANDSCAPE PLANS.

PROPOSED DOGHOUSE MANHOLE TO TIE TO EXISTING SEWER. REMOVE SEWER UPSTREAM. CONTRACTOR TO CONFIRM THE LOCATION AND INVERT

5" PVC SANITARY SEWER OUT OF BUILDING TO CLEANOUT. SEE PLUMBING PLANS

4" PVC TO GREASE INTERCEPTOR. SEE PLUMBING PLANS.

RAMP WITH HANDRAILS DOWN FROM LOADING DOCK. RAMP PER

CG-12 (TYP)

FLUSH CURB PER LANDSCAPE PLANS.

APPROX. LOCATION OF FIBER CONDUIT AND PULLBOX. SEE ELECTRICAL PLANS SHEET ES101 AND E100 FOR DETAIL.

BIORETENTION AREA (LEVEL II)

3- 6" RISERS WITH HANDRAILS. SEE LANDSCAPE PLANS.

3" SANITARY SEWER OUT OF BUILDING INV = 575.42. PROVIDE 4" EXTERIOR PVC PIPE TO 8" LINE WITH MINIMUM SLOPE OF 1.04% AND 3' MINIMUM COVER.

18" OF SIDEWALK CONCRETE AGAINST BUILDING FOUNDATION FOR MOWING STRIP(TYP.)

NOTE: PEDESTRIAN PAVEMENTS AND SITE FEATURES SUCH AS WALLS, RAMPS, FENCES AND STAIRS ARE SHOWN FOR REFERENCE ONLY. SEE LANDSCAPE DRAWING.

HATCH LEGEND

- HEAVY DUTY ASPHALT
- LIGHT DUTY ASPHALT
- SEE LANDSCAPE PLANS FOR DIMENSIONS AND CROSS SECTIONS
- HEAVY DUTY CONCRETE
- MILL AND OVERLAY

SCALE 1"=20'
0 20' 40'

PATH & FILENAME:
PLOTTING DATE & TIME:

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ARB - SECOND SUBMISSION
10/02/2024

SITE PLAN

C4.1

PROPOSED GRASS SPORTS PRACTICE FIELDS

MATCHLINE - SEE SHEET C4.3

6' WIDE GATE

10' HIGH CHAIN LINK FENCE

3' WIDE CONCRETE STRIP

300'

160'

PAVED PATH

HIGH VISIBILITY CROSSWALK (TYP)

24" WIDE SOLID WHITE STOP BAR (TYP)

R1-1, STOP SIGN

CG-2

CG-6

24' WIDE SOLID WHITE STOP BAR

R7-8, TYP. ALL ACCESSIBLE PARKING SPACES

18' TYP.

9' TYP.

VAN

SIDEWALK. SEE LANDSCAPE PLANS.

CG-12 TYP.

LIGHT POLE (TYP.)

BOLLARD (TYP)

6' WIDE SIDEWALK

TOTAL # OF SPACES = 193

FINISH AND PAINT CUT WALL SURFACE TO MATCH EXISTING. COORDINATE WITH ARCHITECT.

8' DROP OFF AND PICKUP SIDEWALK

TIE TO EXISTING SIDEWALK

VDOT STD. STRIPED WHITE DIRECTIONAL ARROWS (TYP.)

4" SOLID YELLOW STRIPED LINES

DOUBLE STRIPED 4" SOLID YELLOW CENTER LINE (TYP)

RAISED PEDESTRIAN CROSSWALK (TYP)

FLUME WITH METAL GRATE (TYP.)

SIDEWALK BUMP OUT FOR VIEWING. SEE LANDSCAPE PLANS.

CONTINUE CONCRETE FLUME WITHOUT GRATE THROUGH SPEED TABLE RAMPS.

MATCHLINE - SEE SHEET C4.1

TENNIS COURTS

CHAIN FENCE

BENCHES

BLEACHERS

10' HIGH CHAIN LINK FENCE

PROPOSED GRASS SPORTS PRACTICE FIELDS

4.071'"

TEST PIT INFORMATION REQUIRED BEFORE CONSTRUCTION FOR EXISTING WATERLINE UNDER PARKING LOT TO ENSURE ACCEPTABLE AMOUNT OF COVER OVER WATER MAIN.

FIELD TO AVOID VALVE

MATCHLINE - SEE THIS SHEET

PROPOSED SPORTS PRACTICE FIELDS

NOTE: PEDESTRIAN PAVEMENTS AND SITE FEATURES SUCH AS WALLS, RAMPS, FENCES AND STAIRS ARE SHOWN FOR REFERENCE ONLY. SEE LANDSCAPE DRAWING.

HATCH LEGEND

- HEAVY DUTY ASPHALT
- LIGHT DUTY ASPHALT
- SEE LANDSCAPE PLANS FOR DIMENSIONS AND CROSS SECTIONS
- HEAVY DUTY CONCRETE
- MILL AND OVERLAY

SCALE 1"=20'

0 20' 40'

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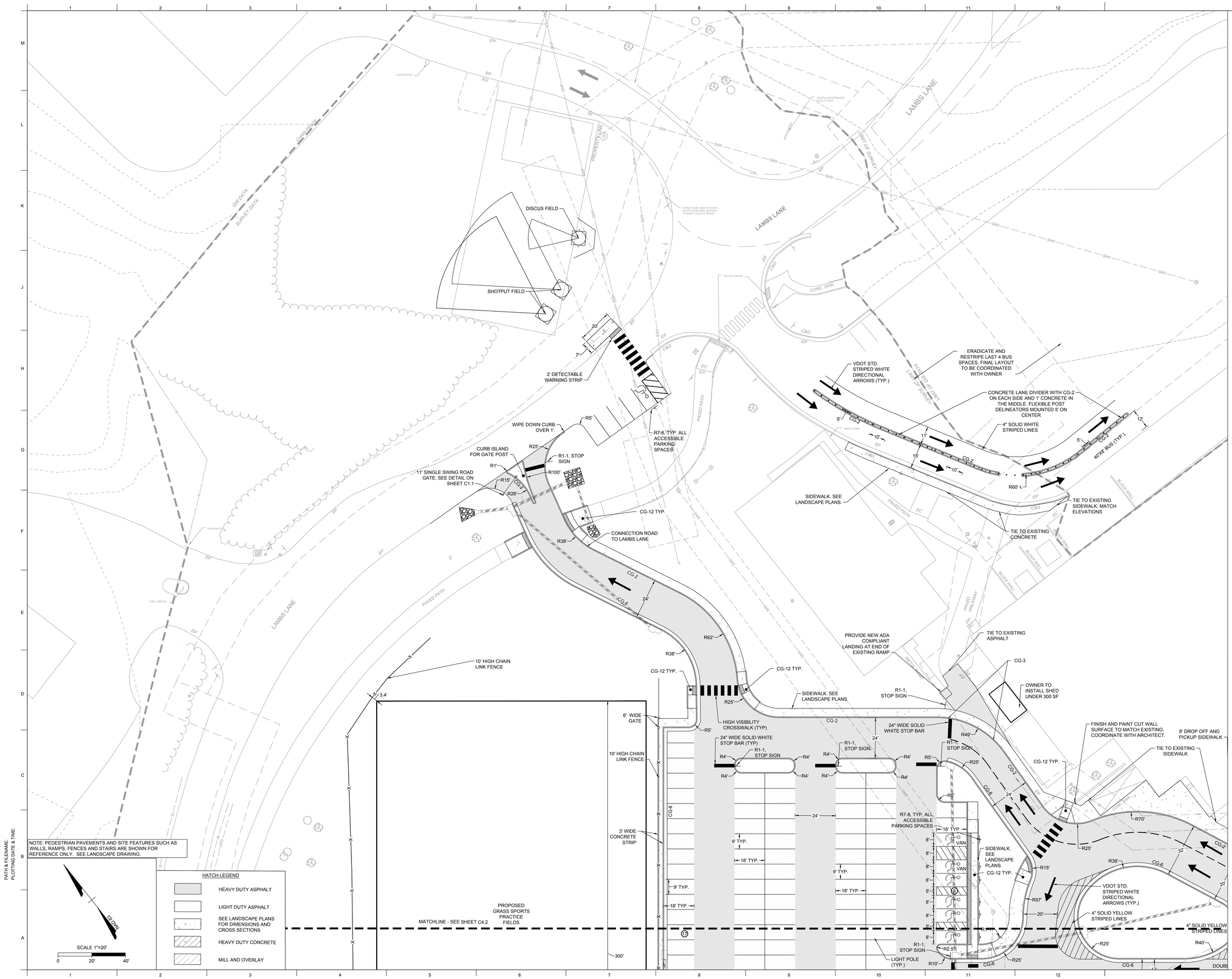
ARB - SECOND SUBMISSION
10/02/2024

SITE PLAN

C4.2



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SITE PLAN

C4.3

6' TRANSITION FROM TOP OF CURB TO BOTTOM OF CURB

MATCHLINE - SEE SHEET C5.1

MILL AND OVERLAY TO RAISE GRADE PER PROPOSED GRADING SPOTS

POTHOLE EXISTING WATERLINE AND CONFIRM COVER WITH FINAL GRADING WILL BE 3' MINIMUM, OR COORDINATE WITH ENGINEER BEFORE BEGINNING CONSTRUCTION.

MODIFY BASE AND SET NEW INLET TOP AT PROPOSED GRADE

MATCHLINE - SEE THIS SHEET

SCALE 1"=20'
0 20' 40'

(3) 30" RCP CULVERTS UNDER WALKWAY STRUCTURE

CONCRETE WEIR WALL (TYP). SEE LANDSCAPE PLANS.

CLEANOUT (TYP.)

FOUNDATION DRAIN FROM WALLS

BIORETENTION

UNDRAINS

24" NYLOPLAST BASIN WITH SOLID TOP. TIE INTO EXISTING 18" RCP

4" SECONDARY DRAIN

GRAVEL FLOW SPREADER FROM ROOF DRAIN TO BIORETENTION (TYP.)

BIORETENTION AREA (LEVEL II)

4" HDPE ROOF DRAIN OUT OF BUILDING.

4" HDPE STORM DRAIN OUT OF BUILDING

BIORETENTION BAFFLES - TOP ELEVATION TO MATCH FLUSH CURB (TYP.)

CIP CONCRETE CHANNEL PER LANDSCAPE PLANS SHEET L105

NEW MANHOLE TOP TO MATCH PROPOSED GRADE. FRAME AND COVER TO BE OUT OF WALKWAY.

2' BRICK CHANNEL PER LANDSCAPE PLANS SHEET L104

2' HIGH RETAINING WALL (SEE LANDSCAPE PLANS SHEET L105)

8" TRENCH DRAINS PER SHEET L104 LANDSCAPE PLANS

8" HDPE ROOF DRAIN. TIE TO EXISTING PIPE WITH INSERTA TEE

CLEAN OUT (TYP.)

8" HDPE ROOF DRAIN OUT OF BUILDING. INV = 575.17'

8" HDPE ROOF DRAIN OUT OF BUILDING. INV = 573.75'

8" HDPE ROOF DRAIN OUT OF BUILDING. INV = 575.50'

ENSURE POSITIVE DRAINAGE AWAY FROM DOORS (TYP.) AND BUILDING ALL SIDES. MINIMUM OF 1' DOWN FROM BUILDING FINISHED FLOOR PER ARCHITETURAL DETAIL AT ANY LOCATION THAT IS NOT A DOOR. TRANSITION UP TO DOORS AT GRADES MEETING ADA REQUIREMENTS.

SLOPE GRADE DOWN 8" OVER 2' OFF PATIO EDGE TO DAYLIGHT TRENCH DRAINS PER DETAILS ON LANDSCAPE PLANS

4" DIP PIPE WITH BELL END UP 12" ABOVE GRADE FOR OUTLET OF CONDENSATION PIPE. 4" HDPE PIPE TO INLET PER ROOF DRAIN NOTES

ENSURE POSITIVE DRAINAGE AWAY FROM DOORS (TYP.)

NOTES:
1. ALL ROOF DRAINS TO HAVE 2' MINIMUM COVER WITH
2. All ROOF DRAINS TO HAVE 2% MINIMUM SLOPE (TYP.)
3. RECONNECTED ANY EXISTING ROOF DRAINS OR OTHER DRAINS THAT ARE DISTURBED AND ARE TO REMAIN ACTIVE

VDOT STD CLASS A1 RIPRAP WIDTH 1 = 4.5' WIDTH 2 = 11.5' LENGTH = 10' DEPTH = 18"

VDOT STD CLASS A1 RIPRAP WIDTH = 4' LENGTH = 4' DEPTH = 18"

RETAINING WALLS

TMP 60-78A
COUNTY SCHOOL BOARD OF ALBEMARLE COUNTY, VIRGINIA
DB. 287, PG. 414
ZONED: RA

UNNAMED ENTRANCE ROAD AKA 'GEORGETOWN GREEN'
VAR.WIDTH R/W
DB. 440, PG. 107 | DB. 440, PG. 74
VDOT PROJ. 0743-002-153

N51°48'29"W 710.84'

N46°49'25"W 54.87'

S46°32'57"E 54.87'

GRASS LINED CHANNEL

SLOPE = 4.16%
Tc = 5 min.
Q2 = 0.23 cfs
Q10 = 0.30 cfs
2-YR VELOCITY = 2.47 FPS
10-YR DEPTH = 0.10'

DITCH SECTION A-A
(No Scale)

SLOPE = 3.70%
Tc = 5 min.
Q2 = 1.52 cfs
Q10 = 1.96 cfs
2-YR VELOCITY = 3.91 FPS
10-YR DEPTH = 0.19'

DITCH SECTION B-B
(No Scale)

GRADING AND DRAINAGE NOTES:
1. VERIFY ALL EXISTING ELEVATIONS AT CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR SLOPES THAT DO NOT MEET STANDARDS OR ENSURE POSITIVE DRAINAGE BEFORE BEGINNING CONSTRUCTION.
2. ENSURE ALL SIDEWALKS AND CG-12 ARE PER VDOT AND ADA STANDARDS.
3. ALL CG-12 RAMPS TO HAVE 1:20 MAX. GUTTER SLOPE IN THE DIRECTION OF TRAVEL.
4. ALL SIDEWALKS SHALL HAVE A MAX SLOPE OF 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND A SLOPE OF 2% MAX AT LANDINGS, ADA PARKING SPACE, AND AREAS WERE TURNING IS REQUIRED.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING, PAVEMENT AND SITE FEATURES TO CONVEYANCE CHANNELS AND INLETS. NOTIFY ENGINEER OF ANY APPARENT LOW AREA OR PROBLEM AREAS BEFORE BEGINNING CONSTRUCTION.

PATH & FILENAME:
PLOTTING DATE & TIME:

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v 804.788.4774
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ARB - SECOND SUBMISSION
10/02/2024

GRADING & DRAINAGE PLAN

C5.0

GRADING AND DRAINAGE NOTES:

1. VERIFY ALL EXISTING ELEVATIONS AT CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR SLOPES THAT DO NOT MEET STANDARDS OR ENSURE POSITIVE DRAINAGE BEFORE BEGINNING CONSTRUCTION.
2. ENSURE ALL SIDEWALKS AND CG-12 ARE PER VDOT AND ADA STANDARDS.
3. ALL CG-12 RAMPS TO HAVE 1:20 MAX. GUTTER SLOPE IN THE DIRECTION OF TRAVEL.
4. ALL SIDEWALKS SHALL HAVE A MAX SLOPE OF 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND A SLOPE OF 2% MAX AT LANDINGS, ADA PARKING SPACE, AND AREAS WERE TURNING IS REQUIRED.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING, PAVEMENT AND SITE FEATURES TO CONVEYANCE CHANNELS AND INLETS. NOTIFY ENGINEER OF ANY APPARENT LOW AREA OR PROBLEM AREAS BEFORE BEGINNING CONSTRUCTION.

MATCHLINE SEE SHEET C5.2

MATCH EXISTING SIDEWALK GRADE

MATCH EXISTING SIDEWALK GRADE

4" CURB

MATCH EXISTING SIDEWALK GRADE

TRANSITION FROM 4" CURB TO 6" CURB

MATCH EXISTING SIDEWALK GRADE

MATCH EXISTING RAMP GRADE

ENSURE POSITIVE DRAINAGE FROM FLUME TO INLET

TIE IN CURB TO EXISTING CURB.

MATCH EXISTING SIDEWALK GRADE

MATCH EXISTING CURB AND GUTTER ELEVATIONS. GUTTER TO SLOPE AWAY FROM CURB AT 2% FOR THIS SECTION

MATCHLINE SEE THIS SHEET

TMP 60-78A
COUNTY SCHOOL BOARD OF
ALBEMARLE COUNTY, VIRGINIA
DB. 287, PG. 414
ZONED: RA

6' TRANSITION FROM TOP OF CURB TO BOTTOM OF CURB

26' TOP OF SPEED TABLE FLUSH WITH TOP OF CURB

TIE NEW INLET TO EXISTING 18" RCP. TOP TO MATCH PROPOSED GRADE

MATCHLINE SEE SHEET C5.1

6' TRANSITION FROM TOP OF CURB TO BOTTOM OF CURB

MILL AND OVERLAY TO RAISE GRADE PER PROPOSED GRADING SPOTS

MILL AND OVERLAY TO RAISE GRADE PER PROPOSED GRADING SPOTS

(3) 30" RCP CULVERTS UNDER WALKWAY STRUCTURE

CONCRETE WEIR WALL (TYP). SEE LANDSCAPE PLANS.

CLEANOUT (TYP.)

FOUNDATION DRAIN FROM WALLS

BIORETENTION

BIORETENTION

UNDRAINS

24" NYLOPLAST BASIN WITH SOLID TOP. TIE INTO EXISTING 18" RCP

4" SECONDARY DRAIN

4" HDPE ROOF DRAIN OUT OF BUILDING.

BIORETENTION AREA (LEVEL II)

4" HDPE STORM DRAIN OUT OF BUILDING

CIP CONCRETE CHANNEL PER LANDSCAPE PLANS SHEET L105

GRAVEL FLOW SPREADER FROM ROOF DRAIN TO BIORETENTION (TYP.)

BIORETENTION BAFFLES - TOP ELEVATION TO MATCH FLUSH CURB (TYP.)

8" HDPE ROOF DRAIN. TIE TO EXISTING PIPE WITH INSERTA TEE

CLEAN OUT (TYP.)

8" HDPE ROOF DRAIN OUT OF BUILDING. INV = 575.17'

8" HDPE ROOF DRAIN OUT OF BUILDING. INV = 573.75'

8" TRENCH DRAINS PER SHEET L104 LANDSCAPE PLANS

ENSURE POSITIVE DRAINAGE AWAY FROM DOORS (TYP.) AND BUILDING

PATH & FILENAME:
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SCALE 1"=20'
0 20' 40'

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10/02/2024

GRADING & DRAINAGE PLAN

C5.1

PROPOSED GRASS SPORTS PRACTICE FIELDS

SEE ATHLETIC FIELD TURF REQUIREMENTS FOR FINE GRADING, TOPSOIL, SOIL AMENDMENTS AND FERTILIZERS ON SHEETS L3.0 AND L3.1.

MATCHLINE - SEE SHEET ####

LIGHT POLE (TYP.)

MATCH EXISTING SIDEWALK GRADE

30" NYLOPLAST BASIN WITH SOLID TOP

LANE STORMKEEPER UNDERGROUND DETENTION. 5 ROWS WITH 11 CHAMBERS.

60" MH-1 WITH STEEL WEIR PLATE. SEE SHEET C6.2

POTHOLE EXISTING WATERLINE AND CONFIRM COVER WITH FINAL GRADING WILL MEET ACSA MAXIMUMS OR COORDINATE WITH ENGINEER BEFORE BEGINNING FILL OVER EXISTING WATERLINE.

MATCHLINE - SEE SHEET C5.1

TMP 60-78A
COUNTY SCHOOL BOARD OF
ALBEMARLE COUNTY, VIRGINIA
DB. 287, PG. 414
ZONED: RA

PROPOSED GRASS SPORTS PRACTICE FIELDS

MATCHLINE - SEE THIS SHEET

PROPOSED SPORTS PRACTICE FIELDS

MATCHLINE - SEE THIS SHEET

GRADING AND DRAINAGE NOTES:

1. VERIFY ALL EXISTING ELEVATIONS AT CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR SLOPES THAT DO NOT MEET STANDARDS OR ENSURE POSITIVE DRAINAGE BEFORE BEGINNING CONSTRUCTION.
2. ENSURE ALL SIDEWALKS AND CG-12 ARE PER VDOT AND ADA STANDARDS.
3. ALL CG-12 RAMPS TO HAVE 1:20 MAX. GUTTER SLOPE IN THE DIRECTION OF TRAVEL.
4. ALL SIDEWALKS SHALL HAVE A MAX SLOPE OF 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND A SLOPE OF 2% MAX AT LANDINGS. ADA PARKING SPACE, AND AREAS WERE TURNING IS REQUIRED.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING, PAVEMENT AND SITE FEATURES TO CONVEYANCE CHANNELS AND INLETS. NOTIFY ENGINEER OF ANY APPARENT LOW AREA OR PROBLEM AREAS BEFORE BEGINNING CONSTRUCTION.

NAD 83

SCALE 1"=20'
0 20' 40'

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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

GRADING & DRAINAGE PLAN

C5.2



GRADING AND DRAINAGE NOTES:

1. VERIFY ALL EXISTING ELEVATIONS AT CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR SLOPES THAT DO NOT MEET STANDARDS OR ENSURE POSITIVE DRAINAGE BEFORE BEGINNING CONSTRUCTION.
2. ENSURE ALL SIDEWALKS AND CG-12 ARE PER VDOT AND ADA STANDARDS.
3. ALL CG-12 RAMPS TO HAVE 1:20 MAX. GUTTER SLOPE IN THE DIRECTION OF TRAVEL.
4. ALL SIDEWALKS SHALL HAVE A MAX SLOPE OF 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND A SLOPE OF 2% MAX AT LANDINGS, ADA PARKING SPACE, AND AREAS WERE TURNING IS REQUIRED.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING, PAVEMENT AND SITE FEATURES TO CONVEYANCE CHANNELS AND INLETS. NOTIFY ENGINEER OF ANY APPARENT LOW AREA OR PROBLEM AREAS BEFORE BEGINNING CONSTRUCTION.

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

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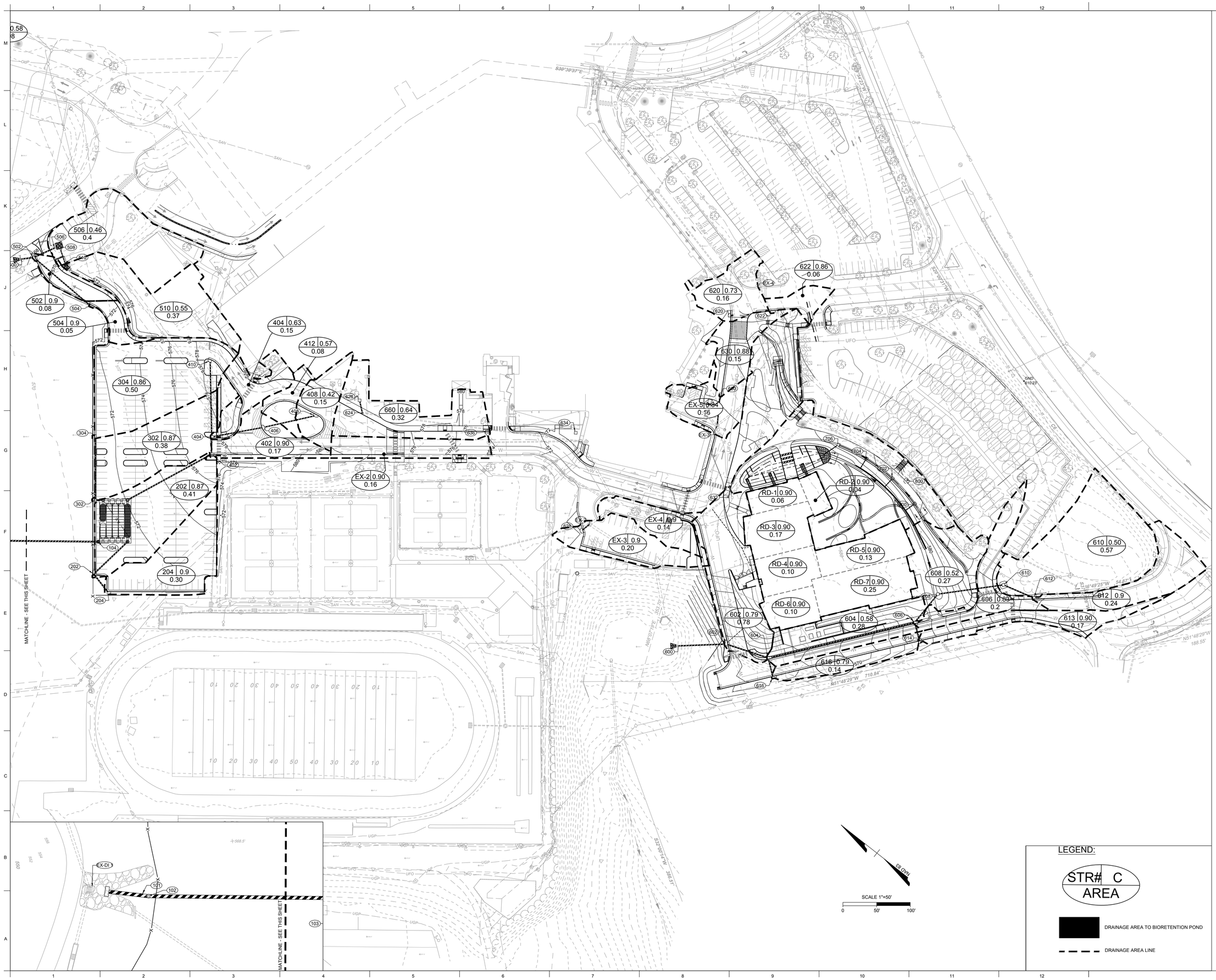
GRADING & DRAINAGE PLAN

C5.3



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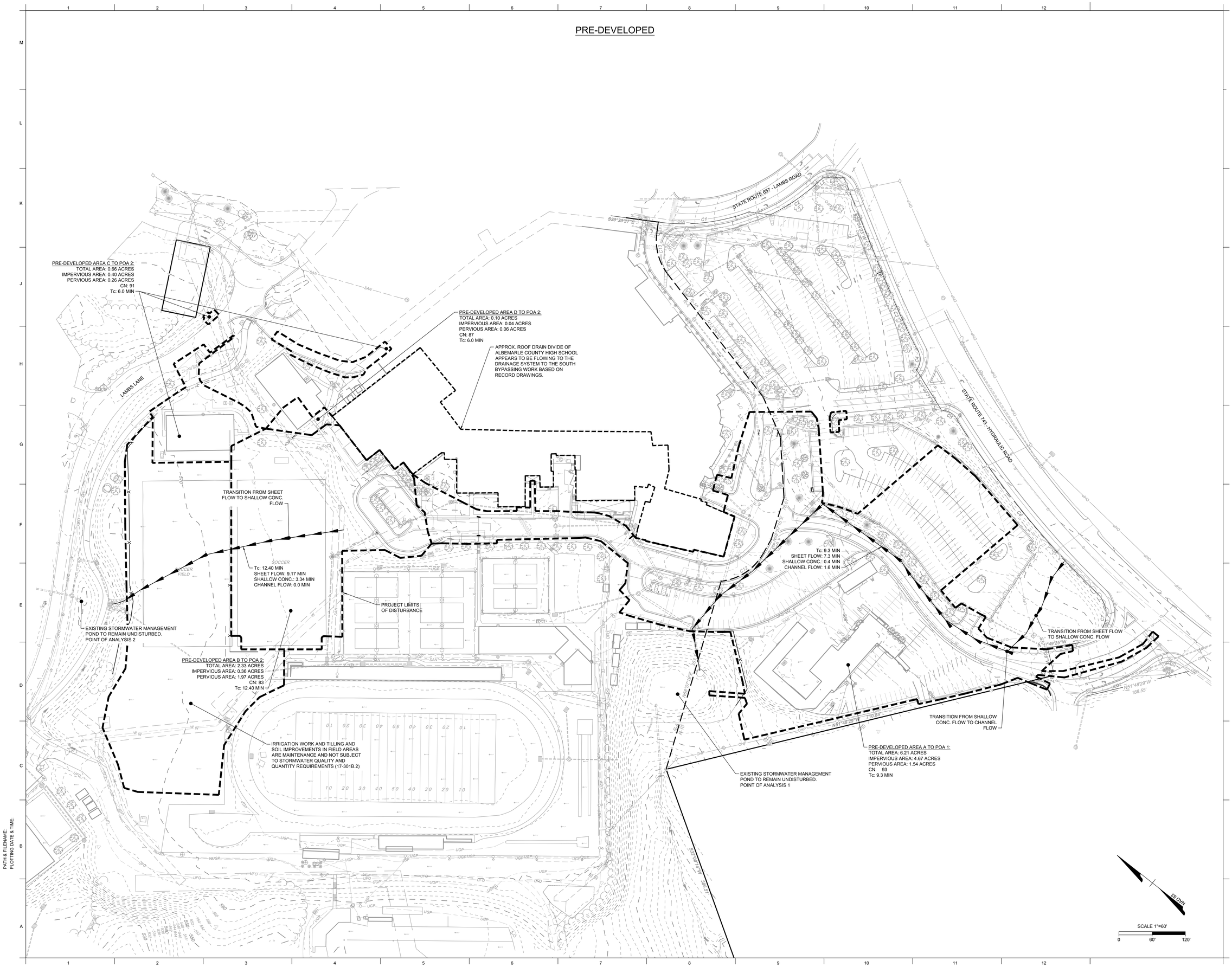
INLET DRAINAGE AREA MAP

C5.4

PRE-DEVELOPED



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STORMWATER MANAGEMENT PLAN

C6.0

WATER QUALITY ANALYSIS

SITE DATA:

LIMITS OF DISTURBANCE: 9.20 ACRES

PRE-DEVELOPED AREA - B SOILS
IMPERVIOUS = 3.27 ACRES
PERVIOUS = 0.83 ACRES
FOREST = 0.00 ACRES

PRE-DEVELOPED AREA - D SOILS
IMPERVIOUS = 2.06 ACRES
PERVIOUS = 3.04 ACRES
FOREST = 0.00 ACRES

POST-DEVELOPED AREA - B SOILS
IMPERVIOUS = 2.85 ACRES
PERVIOUS = 1.25 ACRES
FOREST = 0.00 ACRES

POST-DEVELOPED AREA - D SOILS
IMPERVIOUS = 3.80 ACRES
PERVIOUS = 1.30ACRES
FOREST = 0.00 ACRES

TOTAL LOAD REDUCTION REQUIRED (LB/YR) = 3.59 LB/YR

TREATMENT PROPOSED
ONSITE TREATMENT IS PROPOSED BY ONE BIORETENTION FACILITY AND ONE MANUFACTURED UNDERGROUND DETENTION PIPE, AS CALCULATED IN THE VIRGINIA RUNOFF REDUCTION METHOD SPREADSHEET.

LEVEL 2 BIORETENTION FACILITY: 1.14 LB/YR

MANUFACTURED TREATMENT DEVICE: 1.72 LB/YR

TOTAL PROPOSED ONSITE TREATMENT = 2.87 LB/YR

STORMWATER CREDITS TO BE PURCHASED = 0.73 LB/YR

WATER QUANTITY CALCULATIONS FOR POINT OF ANALYSIS 1:

CHANNEL PROTECTION:

$Q_{AREA\ A\ POST} \leq [0.8 * (Q_{AREA\ A\ PRE} * RV_{AREA\ A\ PRE}) / RV_{AREA\ A\ POST}]$

$\leq [0.8 * (19.98\ CFS * 1.102\ AC\text{-}FT) / 0.923\ AC\text{-}FT]$

OK 17.80 CFS ≤ 19.08 CFS

THE POST-DEVELOPED FLOWS ARE LESS THAN/EQUAL TO THOSE REQUIRED BY THE ENERGY BALANCE EQUATION. THEREFORE, 9VAC25-870-66B IS SATISFIED THROUGH SUBSECTION #3.

FLOOD PROTECTION:

POST-DEVELOPED $Q_{10} \leq$ PRE-DEVELOPED Q_{10}

OK 38.16 CFS (POST-DEVELOPED Q_{10}) ≤ 39.67 CFS (PRE-DEVELOPED Q_{10}

WATER QUANTITY CALCULATIONS FOR POINT OF ANALYSIS 2:

CHANNEL PROTECTION:

$Q_{AREA\ B+C+D\ POST} \leq [0.8 * (Q_{AREA\ B+C\ PRE} * RV_{AREA\ B+C\ PRE}) / RV_{AREA\ B+C\ POST}] +$ UNDISTURBED AREA E

$\leq [0.8 * (6.60\ CFS * 0.367\ AC\text{-}FT) / 0.522\ AC\text{-}FT] + 0.28$

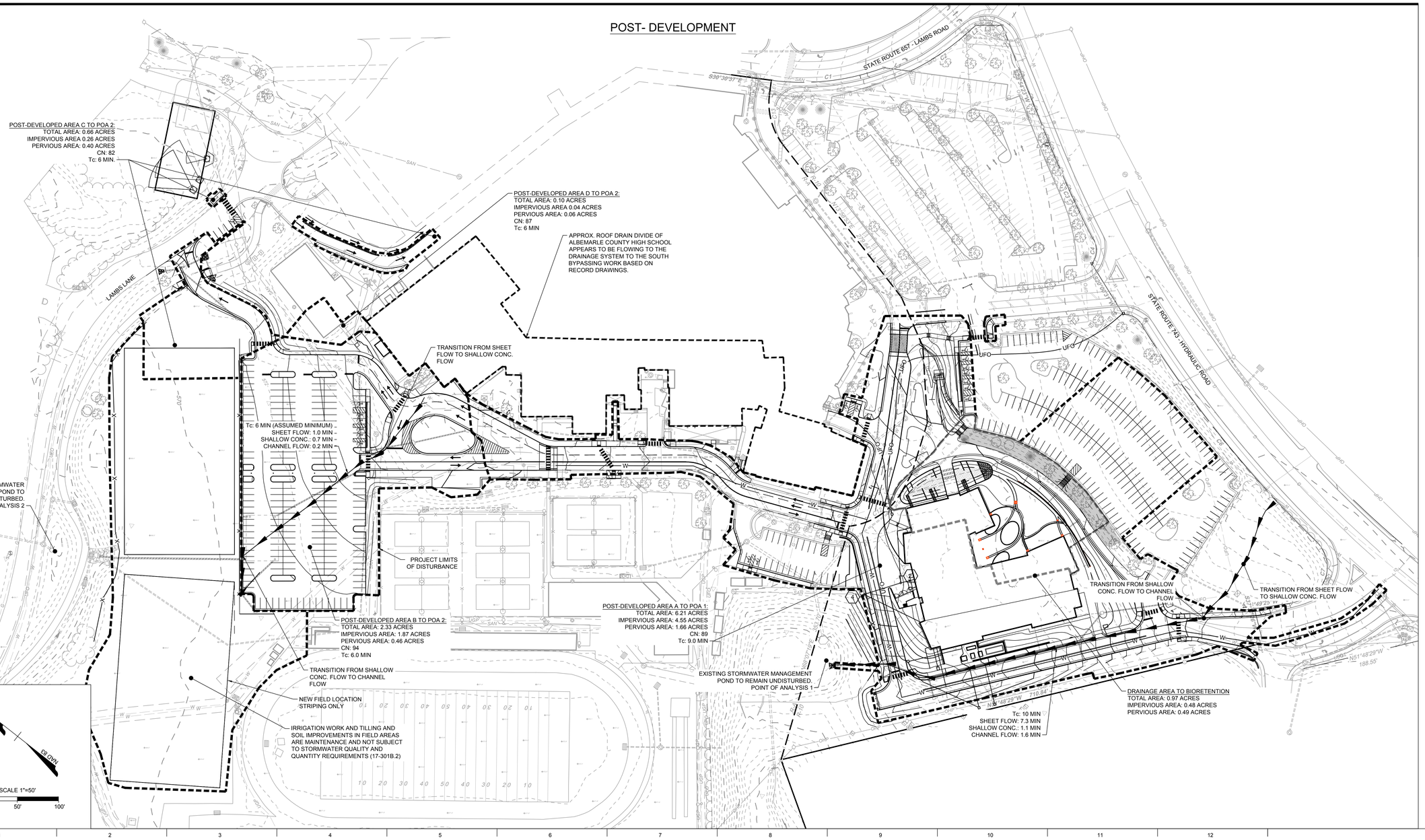
OK 3.53 CFS ≤ 3.99 CFS

FLOOD PROTECTION:

POST-DEVELOPED $Q_{10} \leq$ PRE-DEVELOPED Q_{10}

OK 14.76 CFS (POST-DEVELOPED Q_{10}) ≤ 15.55 CFS (PRE-DEVELOPED Q_{10}

POST- DEVELOPMENT



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ARB - SECOND SUBMISSION
10/02/2024

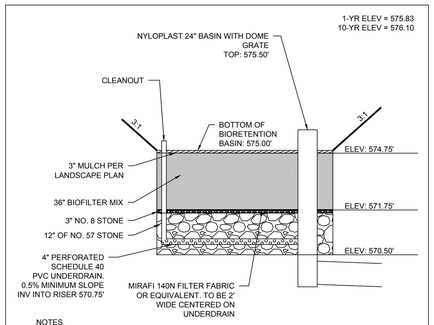
STORMWATER MANAGEMENT PLAN

C6.1

BMP PRACTICE DOCUMENTATION NOTE:

CONTRACTOR SHALL NOTIFY THE TIMMONS GROUP PRIOR TO COMMENCEMENT OF CONSTRUCTION OF BMP PRACTICES. A SPECIFIC PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, INSPECTOR, AND MANUFACTURER IS HIGHLY RECOMMENDED PRIOR TO INSTALLATION OF THE BIOFILTER TO ENSURE THESE PRACTICES ARE NOT ONLY INSTALLED CORRECTLY BUT ALSO DOCUMENTED THROUGHOUT CONSTRUCTION. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DOCUMENT THE INSTALLATION OF THESE PRACTICES AND IF THEY PROCEED WITH DOING SO IT IS DONE AT THEIR OWN RISK. CONTRACTOR SHALL TAKE NOTES, PICTURES, AND MEASUREMENTS OF ALL STRATA LAYERS WITHIN THE BIORETENTION FACILITY DURING CONSTRUCTION. IT IS HIGHLY RECOMMENDED TO TAKE PICTURES OF EACH MEASUREMENT OF EACH STRATA LAYER. WITHOUT DOCUMENTING TO THIS LEVEL OF DETAIL THE CONTRACTOR RUNS THE RISK OF DIGGING THE FACILITIES BACK UP TO PROVE THE CORRECT SECTIONS WERE INSTALLED.

PLEASE FOLLOW ALL REQUIREMENTS OF THE ALBEMARLE COUNTY SWM AND ESC ANNUAL STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL CERTIFICATION ITEMS COMPLETED.



NOTES
1. 36" BIOFILTER MEDIA DEPTH SHALL BE THE MINIMUM DEPTH AFTER A SETTLING PERIOD OF THREE DAYS.

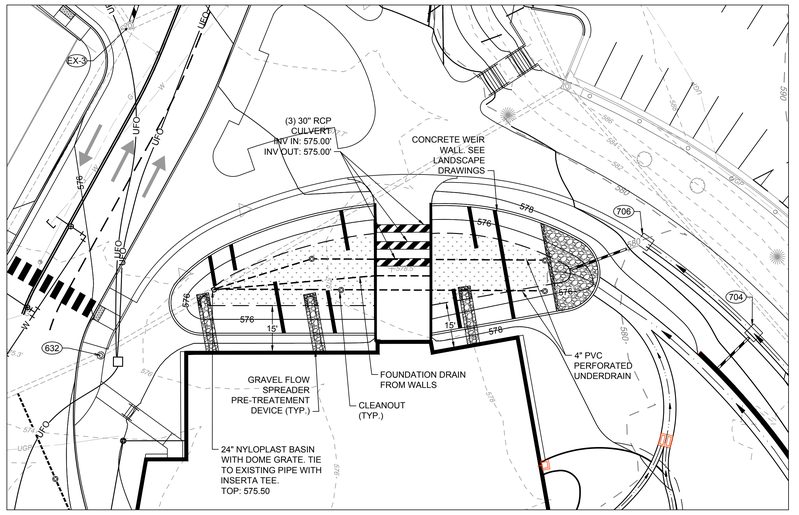
QUALITY SIZING CALCULATION:
DRAINAGE AREA = 0.97 ACRES
IMPERVIOUS = 0.48 ACRES
PERVIOUS = 0.49 ACRES

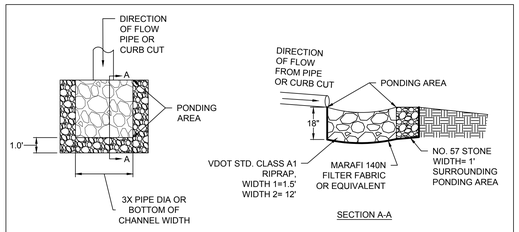
T(v)= 2,026 CF X 1.25 = 2,533 CF

DESIGN STORAGE DEPTH: (3' X 0.25) + (1' X 0.4) + 0.5' PONDING = 1.65'

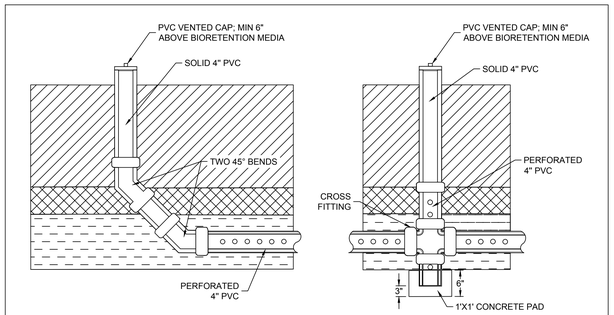
SURFACE AREA REQUIRED: T(v) / DESIGN STORAGE DEPTH -> 2,533/ 1.65' = 1535 SF
SURFACE AREA PROVIDED: 1,660 SF
PRETREATMENT FOREBAY REQUIRED: T(v)*0.15 = 2,533*0.15 = 380 CF
PRETREATMENT FOREBAY PROVIDED: 430 CF

BIORETENTION FACILITY DETAIL (LEVEL 2)
NO SCALE

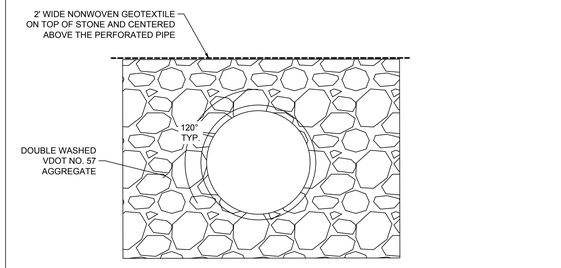




GRAVEL FLOW SPREADER PRE-TREATMENT DEVICE
No Scale

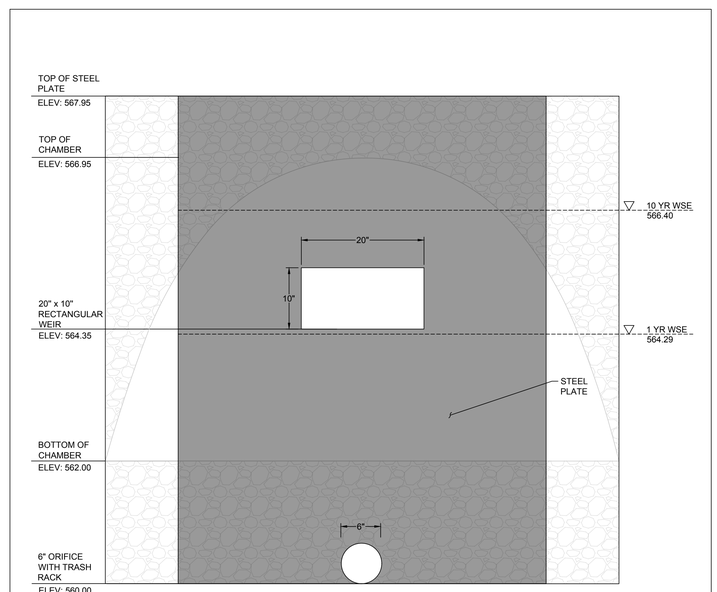


CLEANOUT AND OBSERVATION WELL
NO SCALE



SUBSURFACE PERFORATED PIPE
NO SCALE

DETENTION SYSTEM INSPECTION/MAINTENANCE SCHEDULE:
1. INSPECT PIPE SYSTEM BOTH UPSTREAM AND DOWNSTREAM OF WEIR PLATE CONTROL STRUCTURE FOR SEDIMENT BUILDUP ON A YEARLY BASIS.
2. INSPECT WEIR PLATE CONTROL STRUCTURE FOR CLOGGED ORIFICES ON A YEARLY BASIS. IF ANY CONTROL ORIFICES ARE CLOGGED, REMOVE DEBRIS.
3. EACH DETENTION PIPE SHALL BE CLEANED OUT ANNUALLY, OR MORE FREQUENTLY IF ANNUAL INSPECTION/CLEANING SHOWS MORE SEDIMENT THAN ANTICIPATED.
4. WHILE NOT REQUIRED TO BE INCLUDED IN THE EASEMENT, FEATURES SUCH AS DOWN SPOUTS, ROOF LEADER CONVEYANCES, ROOF PEAKS, YARD INLETS, ETC. ARE STILL SUBJECT TO INSPECTION AND ENFORCEMENT UNDER THE VSMP PROGRAM FOR COMPLIANCE.



SWM WEIR PLATE SECTION DETAIL
FOR LANE STORMKEEPER SYSTEM

PATH & FILENAME:
PLOTTING DATE & TIME:

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
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QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

STORMWATER MANAGEMENT NOTES & DETAILS

C6.2

LANE

STORMKEEPER™
STORMWATER CHAMBER

STORMWATER CHAMBER SPECIFICATIONS

1. STORMWATER CHAMBERS SHALL BE LANE STORMKEEPER® SK290 OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE RESINS.
3. CHAMBERS SHALL PROVIDE CONTINUOUS, UNRESTRICTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASTHO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR A) LONG DURATION DEAD LOADS, AND B) SHORT DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
5. CHAMBERS SHALL MEET ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
7. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE STORMKEEPER® SK290 SYSTEM

1. LANE STORMKEEPER® SK290 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRECONSTRUCTION MEETING WITH THE INSTALLERS.
2. LANE STORMKEEPER® SK290 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LANE STORMKEEPER® SK290 INSTALLATION GUIDLINE.
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR LOCATED OVER THE CHAMBERS. LANE RECOMMENDS THREE (3) BACKFILL METHODS.
   A. STONESHOOTER LOCATED OFF THE CHAMBER BED.
   B. BACKFILL AS ROWS ARE BEING BUILT WITH AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   C. BACKFILL FROM OUTSIDE THE EXCAVATION UTILIZING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED BEFORE PLACING STONE.
6. MAINTAIN MINIMUM NINE INCH (9") SPACING BETWEEN CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12 INCHES INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING THE CHAMBERS MUST BE CLEAN, CRUSHED, ANGULAR STONE %" TO 2".
9. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION SUBGRADE MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.

NOTES FOR CONSTRUCTION EQUIPMENT

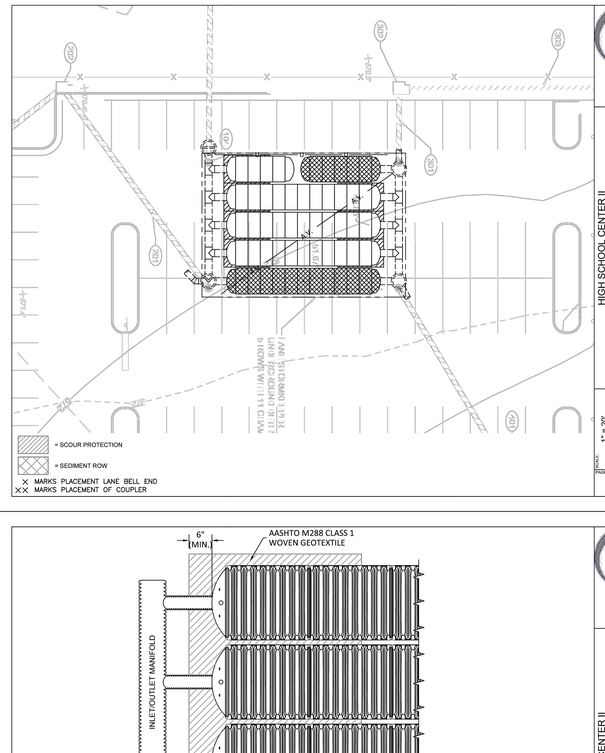
1. LANE STORMKEEPER ® SK290 CHAMBERS ARE TO BE INSTALLED IN ACCORDANCE WITH INSTALLATION GUIDELINES.
2. THE USE OF CONSTRUCTION EQUIPMENT OVER THE LANE STORMKEEPER CHAMBERS IS LIMITED.
   A. NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   B. NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED OVER THE CHAMBERS UNTIL PROPER FILL DEPTHS ARE ACHIEVED IN ACCORDANCE WITH THE STORMKEEPER SK290 INSTALLATION GUIDE.
   C. WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE STORMKEEPER SK290 INSTALLATION GUIDE.
3. A MINIMUM COVER OF 30" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
4. DURING NORMAL PAVING OPERATIONS, DUMP TRUCK AXLE LOADS ON 24" OF COVER FOR THE STORMKEEPER CHAMBER MAY BE NECESSARY. PRECAUTIONS SHOULD BE TAKEN TO AVOID RUTTING OF THE ROAD BASE LAYER, TO ENSURE THAT COMPACTION REQUIREMENTS HAVE BEEN MET AND THAT A MIN OF 24" OF COVER EXISTS OVER THE CHAMBERS.

   USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMKEEPER STANDARD WARRANTY.

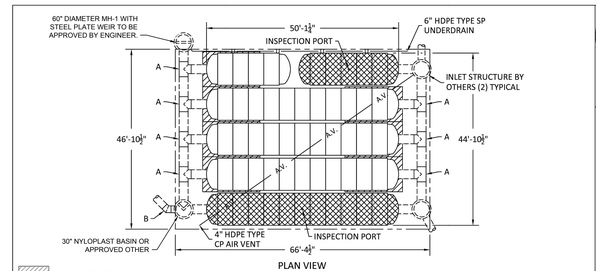
   CONTACT LANE ENTERPRISES WITH QUESTIONS ON INSTALLATION REQUIREMENTS OR CONSTRUCTION LOADING AND EQUIPMENT.

HIGH SCHOOL CENTER II
ALBEMARLE COUNTY PUBLIC SCHOOLS
CHARLOTTESVILLE, VA
SK290 CHAMBER SYSTEM
LANE ENTERPRISES, INC.

SCALE: N.T.S. | DRAWN BY: JDS | DATE: 07-12-2024 | DRAWING NO: C1934 | PAGE: 1 OF 12



SCALE: 1" = 20' | DRAWN BY: JDS | DATE: 07-12-2024 | DRAWING NO: C1934 | PAGE: 2 OF 12



PLAN VIEW

FOR APPROVAL ONLY
SIGNATURE:
DATE:
NOT FOR CONSTRUCTION

BILL OF MATERIALS

MARK	DESCRIPTION	NO. REQUIRED
	SK290 CHAMBER	53
	SK290 CHAMBER END CAP	12
A	24" SINGLE TEE (LANE STANDARD DRAWING)	7
B	18" (45°) ELBOW (LANE STANDARD DRAWING)	1
	24" WRAP AROUND COUPLERS	21
	18" WRAP AROUND COUPLERS	2

ELEVATION & DESIGN DATA

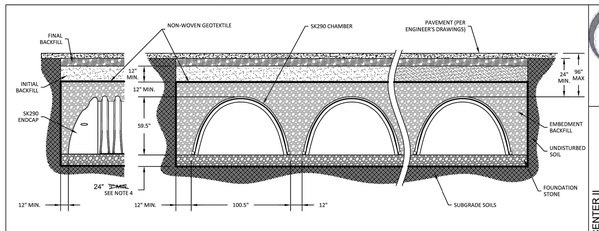
MAXIMUM ALLOWABLE GRADE:	574.96
MINIMUM ALLOWABLE GRADE:	568.96
TOP OF STONE:	567.96
TOP OF CHAMBER:	566.96
BOTTOM OF CHAMBER:	562.00
BOTTOM OF STONE:	560.00
BASIN VOLUME:	13,940.45CF

NOTES:
1. ALL HDPE MATERIALS IN ACCORDANCE WITH AASHTO M294/ ASTM F2648.
2. ALL DIMENSIONS ARE NOMINAL, UNLESS OTHERWISE NOTED.
3. ALL CUT LENGTHS SHOULD BE FIELD VERIFIED FOR LENGTH.

REVISIONS

NO	BY	DATE	NOTES
1	JDS	09-10-2024	REVISED ELEVATIONS

SCALE: 1/16" = 1' | DRAWN BY: JDS | DATE: 07-12-2024 | DRAWING NO: C1934 | PAGE: 3 OF 12

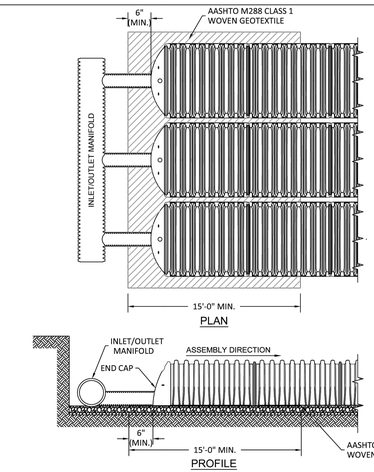


NOTES:

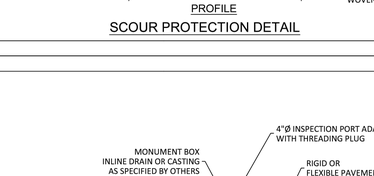
1. CHAMBER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION GUIDELINES.
2. SUBGRADE: TRENCH BOTTOMS WITH UNSTABLE OR UNYIELDING MATERIAL SHALL BE EXCAVATED TO A DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL. FOR UNSTABLE MATERIALS, GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE ENGINEER. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING SUBGRADE SUITABILITY.
3. GEOTEXTILE: AN AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE SHALL BE USED TO PREVENT ADJACENT MATERIALS FROM MIGRATING INTO THE FOUNDATION AND EMBEDMENT ZONES.
4. FOUNDATION STONE: SUITABLE MATERIAL SHALL BE A ¾ TO 2 INCH, CLEAN, CRUSHED, ANGULAR STONE (AASHTO M43 SIZES NO. 3 OR 4). MINIMUM FOUNDATION STONE THICKNESS SHALL BE ~~3 INCHES AND MORE AS SHOWN NECESSARY~~ PER TABLE 1. COMPACTION REQUIREMENTS ARE MET WHEN PLACED AND COMPACTED IN 9 INCH MAXIMUM LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
5. EMBEDMENT STONE: SUITABLE MATERIAL SHALL BE A ¾ TO 2 INCH, CLEAN, CRUSHED, ANGULAR STONE (AASHTO M43 SIZES NO. 3 OR 4). EMBEDMENT STONE SHALL EXTEND FROM THE TOP OF THE FOUNDATION STONE TO NOT LESS THAN 12 INCHES ABOVE THE CHAMBER. NO COMPACTION IS REQUIRED WHEN STONE IS PROPERLY PLACED ON AND AROUND THE CHAMBERS (NOTE: MANIFOLD INSTALLATION WILL REQUIRE STANDARD PIPE INSTALLATION PRACTICES).
6. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE (1) A GRANULAR, WELL-GRADED, SOIL-AGGREGATE MIXTURE WITH LESS THAN 35% FINES PER AASHTO M145, OR (2) A CLEAN, CRUSHED, ANGULAR STONE WITH AASHTO M43 SIZES NO. 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, OR 10. NOTE THAT PAVEMENT SUBBASE MAY COMPRISE A PORTION OF THIS LAYER. COMPACT CLEAN MATERIALS (LESS THAN 5% FINES) IN MAXIMUM 12 INCH LIFTS TO A MINIMUM 95% RELATIVE COMPACTION AND ALL OTHER MATERIALS IN MAXIMUM 6 INCH LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY UNLESS DIRECTED DIFFERENTLY BY THE ENGINEER. INITIAL BACKFILL SHALL EXTEND FROM TOP OF EMBEDMENT STONE TO NOT LESS THAN 24 INCHES ABOVE THE CHAMBER.
7. FINAL BACKFILL: SUITABLE MATERIALS, COMPACTION LIFTS, AND COMPACTION LEVELS AS DIRECTED BY THE ENGINEER. FINAL BACKFILL SHALL EXTEND FROM THE TOP OF THE INITIAL BACKFILL AND CONSTRUCTED TO A HEIGHT IN WHICH THE FINAL GRADE IS NO MORE THAN 96 INCHES ABOVE THE CHAMBER.
8. MINIMUM COVER: A MINIMUM COVER OF 24 INCHES IS REQUIRED TO SUPPORT A PAVING OPERATION WHEN THE SUBBASE AND BASE COURSES HAVE BEEN CONSTRUCTED TO ROADWAY STANDARDS. CONSIDERATIONS SHALL BE MADE TO INCREASE THE MINIMUM COVER TO OFFSET RUTTING POTENTIALS WHEN THE SURFACE IS LEFT UNPAVED AND LIABLE FOR TRAFFIC AND/OR CONSTRUCTION LOADINGS. SEE ALSO PAGE 3 "NOTES FOR CONSTRUCTION EQUIPMENT."
9. LOAD RATING: A PAVEMENT CONSTRUCTED ON PROPERLY PREPARED SUBBASE AND BASE COURSES WILL SUPPORT STANDARD HIGHWAY DESIGN TRUCKS (I.E. HS-20, HS-25, HL-93).

LOCATION	ELEVATION
MAXIMUM FINISHED GRADE OVER SYSTEM	572.26
MINIMUM FINISHED GRADE OVER SYSTEM	570.60
BOTTOM OF PAVEMENT ELEVATION	570.18
MINIMUM INITIAL BACKFILL ELEVATION (SEE NOTE #6)	568.96
TOP OF EMBEDMENT STONE	567.96
INVERT AIR RELIEF VENT	567.63
TOP OF CHAMBER ELEVATION	566.96
INVERT OF 24" MANIFOLD (TOP)	564.25
INVERT OF 24" MANIFOLD (BOTTOM)	562.24
CHAMBER INVERT ELEVATION	562.00
INVERT OF UNDERDRAIN	560.00
BOTTOM OF STONE ELEVATION	560.00
MINIMUM ALLOWABLE BEARING CAPACITY (KSF) = 2.2 ksf	

SCALE: N.T.S. | DRAWN BY: JDS | DATE: 07-12-2024 | DRAWING NO: C1934 | PAGE: 4 OF 12



PLAN



PROFILE

SCOUR PROTECTION DETAIL

SCALE: N.T.S. | DRAWN BY: JDS | DATE: 07-12-2024 | DRAWING NO: C1934 | PAGE: 5 OF 12

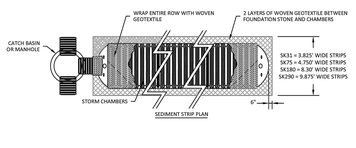
SEDIMENT STRIP INSPECTION AND MAINTENANCE

GENERAL NOTES:

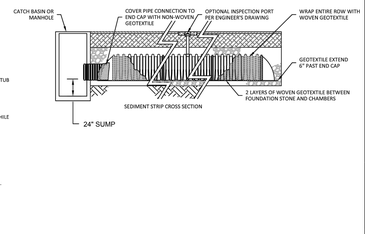
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST INSPECTION SCHEDULE INTERVAL BASED ON PREVIOUS OBSERVATIONS OF ACCUMULATED SEDIMENT OR HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS REQUIRED.

INSPECTION STEPS:

1. INSPECT SEDIMENT STRIP FOR SEDIMENT
   A. USING INSPECTION PORT
      I. REMOVE LID ON INLINE BASIN
      II. USING A FLASHLIGHT AND STADIA ROD, MEASURE THE DEPTH OF SEDIMENT AND RECORD ON A MAINTENANCE LOG.
      III. LOWER A CAMERA INTO THE SEDIMENT STRIP FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).
      IV. IF SEDIMENT IS AT OR ABOVE 3" PROCEED TO STEP 2 BELOW. IF NOT, PROCEED TO STEP 3.
   B. USING UPSTREAM STRUCTURES
      I. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF SEDIMENT STRIP.
      II. USING A FLASHLIGHT, INSPECT DOWN THE SEDIMENT STRIP THROUGH THE OUTLET PIPE.
      III. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY.
      IV. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING A MANHOLE.
      V. IF SEDIMENT IS AT OR ABOVE 3" PROCEED TO STEP 2 BELOW. IF NOT, PROCEED TO STEP 3.
2. CLEAN OUT SEDIMENT STRIP USING TRUCKS FURNISHED WITH WATER JETTING AND VACUUM EQUIPMENT.
   A. FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 48" OR MORE IS PREFERRED.
   B. REMOVE MANHOLE LID/GRATE TO ACCESS MANHOLE CAVITY.
   C. LOWER THE HOSE AND NOZZLE INTO THE STRUCTURE AND SEDIMENT STRIP INLET STUB ABOVE THE MANHOLE SUMP.
   D. THE VACUUM HOSE MAY BE POSITIONED IN THE MANHOLE SUMP AS THE JETTING ACTION PROPELS THE NOZZLE INTO AND UP THE SEDIMENT STRIP.
   E. ONCE THE NOZZLE REACHES THE END OF THE SEDIMENT STRIP, PULL BACK ACCUMULATED MATERIAL TOWARDS THE MANHOLE WITH THE JETTING ACTION WHILE THE NOZZLE IS REELED BACK TOWARDS THE MANHOLE.
   F. WHILE MATERIAL IS BEING PULLED BACK, THE VACUUM ACTION IS REMOVING MATERIAL FROM THE SUMP.
   G. REPEAT THE PROCESS UNTIL A CLEAR EFFLUENT IS OBSERVED.
   H. VACUUM STRUCTURE SUMP AS REQUIRED.
3. REPLACE ALL COVERS, GRATES, FILTERS, LIDS, ETC.
4. RECORD OBSERVATIONS AND ACTIONS.
5. INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMKEEPER SYSTEM.



SEDIMENT STRIP PLAN



SEDIMENT STRIP CROSS SECTION

NOTE: ALL FITTING DIMENSIONS ARE FOR REFERENCE ONLY.
ALL WOVEN GEOTEXTILE TO BE AASHTO M288 CLASS I.

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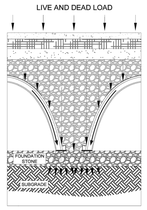
TABLE 1: SK290 FOUNDATION STONE DEPTH REQUIREMENTS (INCHES)

Cover Height ft	SK290 Minimum Required Bearing Capacity of Native Soil Subgrade, ksf																				
	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
2.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	18.0	15.0	15.0
2.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	18.0	15.0	18.0
3.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	18.0
3.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	24.0	24.0
4.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	24.0	24.0	24.0	24.0
4.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	30.0	30.0
5.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	30.0	30.0
5.5	9.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0
6.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0	30.0
6.5	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0	30.0	30.0
7.0	9.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0	30.0	30.0	36.0
7.5	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0	30.0	36.0	36.0
8.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	18.0	24.0	24.0	24.0	24.0	24.0	30.0	30.0	30.0	36.0	36.0	36.0

CONTRACTOR TO CONFIRM WITH GEOTECH INSPECTOR THAT SOIL BEARING CAPACITY MEETS 2.2 KSF BEFORE BEGINNING CONSTRUCTION OR COORDINATE WITH ENGINEER.

LIVE AND DEAD LOAD



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REVISIONS

NO	BY	DATE	NOTES

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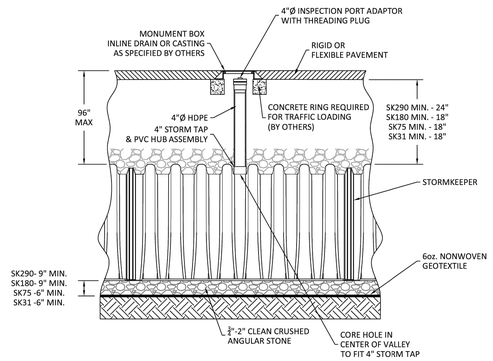

TYP. 4"Ø INSPECTION PORT

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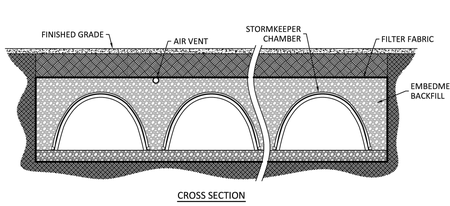
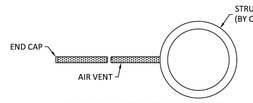


CROSS SECTION



TOP VIEW OF STRUCTURE/AIR VENT

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NOTES:
1. LOCATE AIR VENT AS SHOWN ON SYSTEM LAYOUT.
2. TERMINATE AIR VENT INTO STRUCTURE. VENTED TO ATMOSPHERE.
3. ALL 4" PIPE IS HDPE TYPE CP, TYPE C IF OUTSIDE OF STONE BED.
4. ALL GEOMETRIC TOLERANCES IN ACCORDANCE WITH AASHTO/ASTM SPECIFICATIONS.
5. ALL HDPE MATERIALS IN ACCORDANCE WITH AASHTO M294/ ASTM F2648.
6. ALL DIMENSIONS ARE NOMINAL, UNLESS OTHERWISE NOTED.

TYPICAL AIR VENT DETAIL

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COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

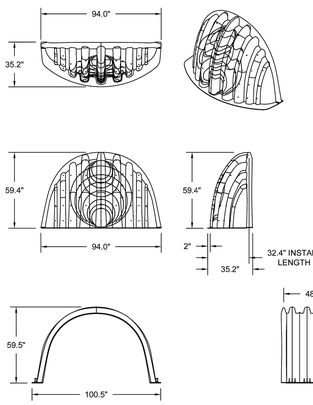
PROJECT MANAGER: J. Showalter | DRAWN BY: S. Kirby/A. Flint

QEA No.41991390

ARB - SECOND SUBMISSION
10/02/2024

LANE STORMKEEPER NOTES & DETAILS

C6.3



StormKeeper SK290 End Caps	
Nominal Dimensions	
Size (L x W x H)	35.2" x 94" x 59.4"
End Cap Storage	39.6 cf
Min Installed Storage	109.5 cf
Weight	82 lbs

StormKeeper SK290 Chamber	
Nominal Dimensions	
Size (L x W x H)	52.8" x 100.5" x 59.5"
Chamber Storage	109.7 cf
Min Installed Storage	163.9 cf
Weight	125 lbs

LANE

HIGH SCHOOL CENTER II
ALBEMARLE COUNTY PUBLIC SCHOOLS
CHARLOTTESVILLE, VA
SK290 CHAMBER SYSTEM
LANE ENTERPRISES, INC.

SCALE: N.T.S.
DESIGNED BY: JDS
DATE: 07-12-2024
DRAWING NO.: C1934
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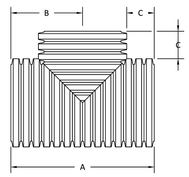

TOP VIEW

PIPE SIZE	PART #	A	B	C
6"	HDFT06T/S	12.50"	6.25"	2.75"
8"	HDFT08T/S	15.50"	7.75"	3.00"
10"	HDFT10T/S	18.50"	9.25"	3.25"
12"	HDFT12T/S	23.50"	11.75"	4.50"
15"	HDFT15T/S	31.00"	15.50"	6.75"
18"	HDFT18T/S	35.50"	17.75"	7.00"
24"	HDFT24T/S	47.25"	23.50"	9.75"
30"	HDFT30T/S	56.00"	28.00"	10.75"
36"	HDFT36T/S	64.00"	32.00"	11.50"
42"	HDFT42T/S	74.75"	37.25"	13.50"
48"	HDFT48T/S	74.75"	37.25"	10.00"
60"	HDFT60T/S	90.00"	45.00"	11.75"

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NOTES:
1. ALL 24" HDPE FITTINGS ARE SOLID PIPE.
2. ALL GEOMETRIC TOLERANCES IN ACCORDANCE WITH AASHTO/ASTM SPECIFICATIONS.
3. ALL HDPE MATERIALS IN ACCORDANCE WITH AASHTO M294/ ASTM F2648.
4. ALL DIMENSIONS ARE NOMINAL, UNLESS OTHERWISE NOTED.
5. ALL CUT LENGTHS SHOULD BE FIELD VERIFIED FOR LENGTH.

FITTING "A" DETAIL
-(7) REQUIRED-

LANE

HIGH SCHOOL CENTER II
ALBEMARLE COUNTY PUBLIC SCHOOLS
CHARLOTTESVILLE, VA
SK290 CHAMBER SYSTEM
LANE ENTERPRISES, INC.

SCALE: N.T.S.
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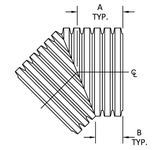

TOP VIEW

PIPE SIZE	PART #	A	B
4"	HDFT04EL45/S	3.50"	2.50"
6"	HDFT06EL45/S	5.00"	3.00"
8"	HDFT08EL45/S	5.25"	3.50"
10"	HDFT10EL45/S	7.00"	4.50"
12"	HDFT12EL45/S	8.75"	5.75"
15"	HDFT15EL45/S	11.50"	8.00"
18"	HDFT18EL45/S	13.25"	9.00"
24"	HDFT24EL45/S	17.75"	12.00"
30"	HDFT30EL45/S	17.75"	10.75"
36"	HDFT36EL45/S	18.00"	9.50"
42"	HDFT42EL45/S	24.00"	14.25"
48"	HDFT48EL45/S	24.00"	12.75"
60"	HDFT60EL45/S	25.25"	12.25"

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NOTES:
1. ALL 18" HDPE FITTINGS ARE SOLID PIPE.
2. ALL GEOMETRIC TOLERANCES IN ACCORDANCE WITH AASHTO/ASTM SPECIFICATIONS.
3. ALL HDPE MATERIALS IN ACCORDANCE WITH AASHTO M294/ ASTM F2648.
4. ALL DIMENSIONS ARE NOMINAL, UNLESS OTHERWISE NOTED.
5. ALL CUT LENGTHS SHOULD BE FIELD VERIFIED FOR LENGTH.

FITTING "B" DETAIL
-(1) REQUIRED-

LANE

HIGH SCHOOL CENTER II
ALBEMARLE COUNTY PUBLIC SCHOOLS
CHARLOTTESVILLE, VA
SK290 CHAMBER SYSTEM
LANE ENTERPRISES, INC.

SCALE: N.T.S.
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10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

LANE STORMKEEPER NOTES & DETAILS

C6.4

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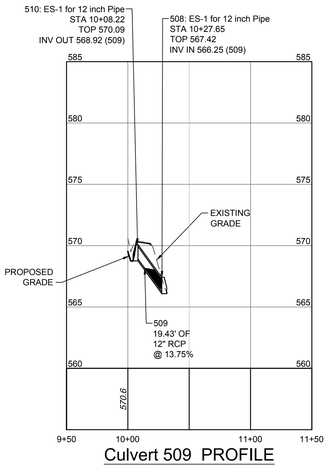
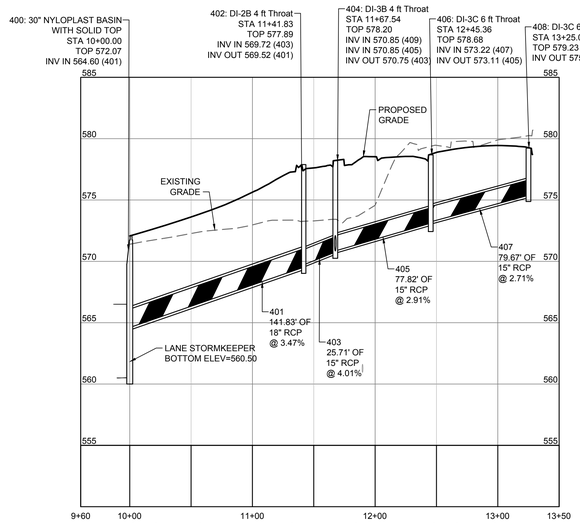


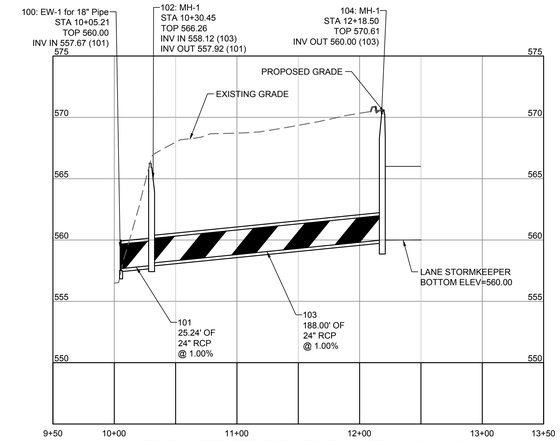
Culvert 509 PROFILE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



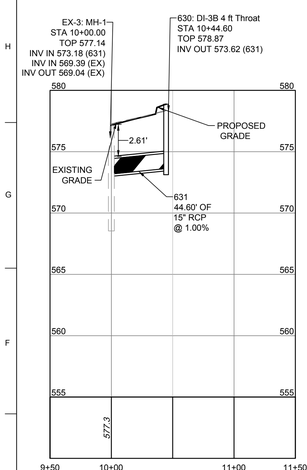
STORM SEWER PROFILE - STR 408- STORAGE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



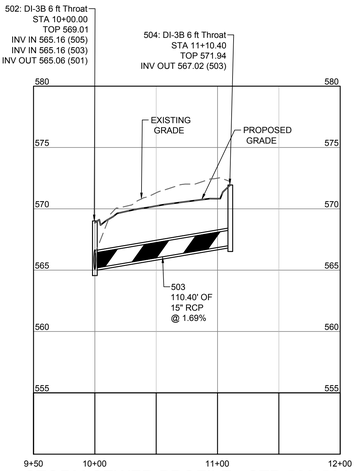
STORM SEWER PROFILE - STR - 106-102

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STORM SEWER PROFILE - EX-3-630

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STORM SEWER PROFILE - STR 502-504

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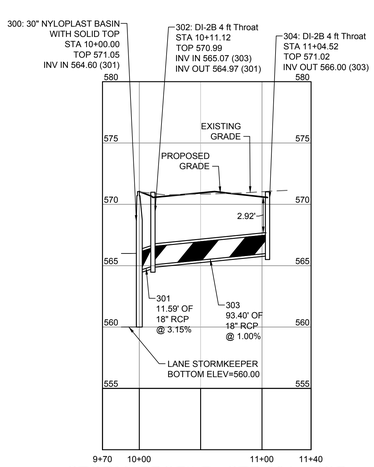
VERT SCALE: 1"=5



STORM PROFILE - STR 304 - UGP

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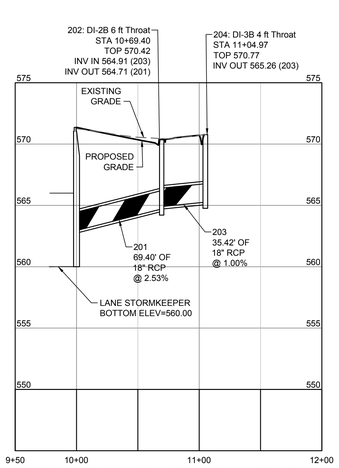
VERT SCALE: 1"=5



STORM PROFILE - STR 204 - STORAGE

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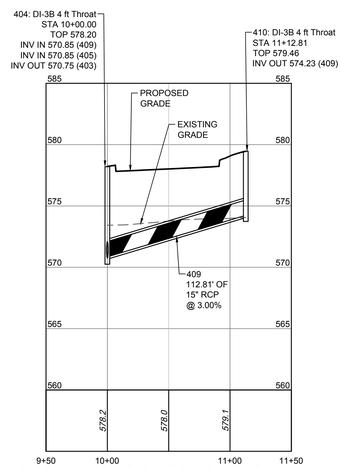
VERT SCALE: 1"=5



STORM SEWER PROFILE - STR 404-410

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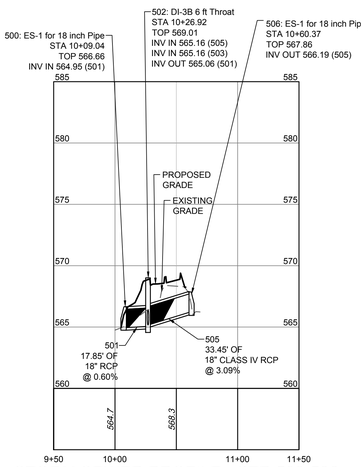
VERT SCALE: 1"=5



STORM SEWER PROFILE - STR 500-506

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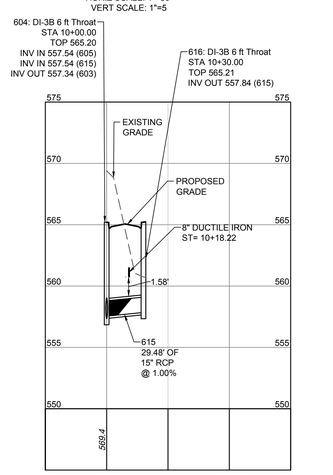
VERT SCALE: 1"=5



STORM SEWER PROFILE - STR 616-604

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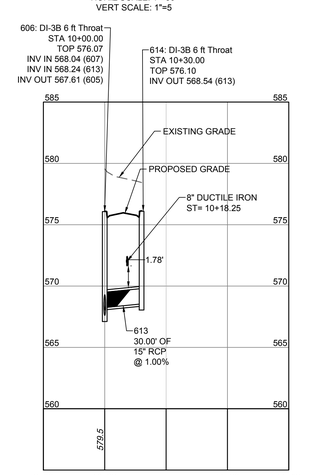
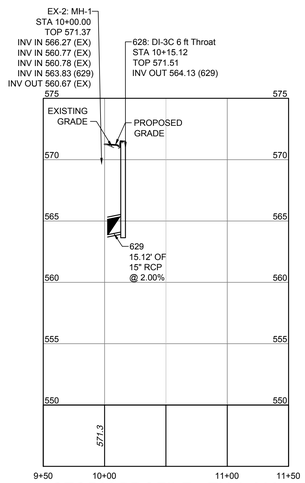
VERT SCALE: 1"=5



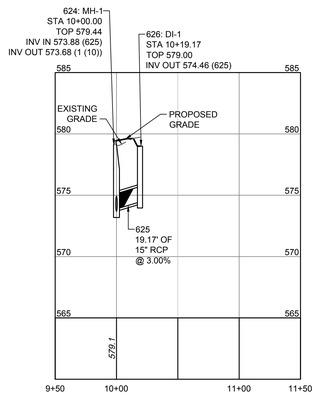
STORM SEWER PROFILE - STR 606-614

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



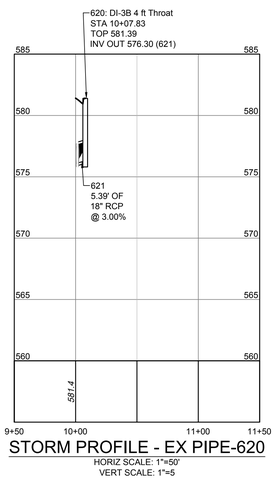
STORM PROFILE - EX-2-628

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



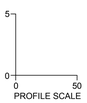
STORM PROFILE - STR 624-626

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STORM PROFILE - EX PIPE-620

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



PATH & FILENAME:
PLOTTING DATE & TIME:

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v 804.788.4774
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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

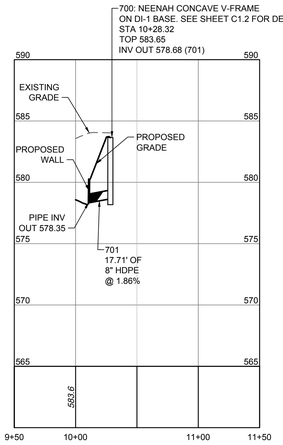
PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

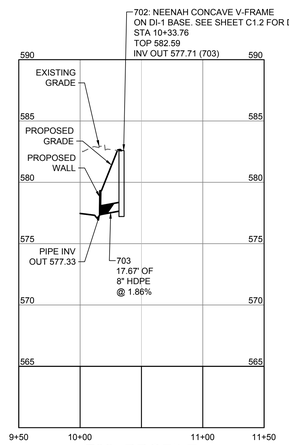
ARB - SECOND SUBMISSION
10/02/2024

STORM PROFILES

C7.0



700- PROFILE
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



702- PROFILE
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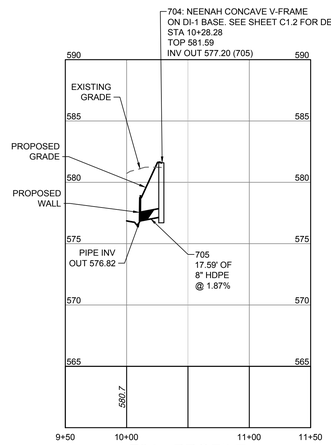
VERT SCALE: 1"=5



704 - PROFILE
HORIZ SCALE: 1"=50'
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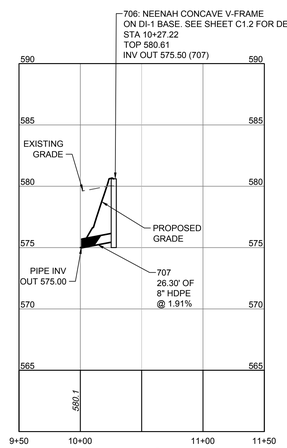


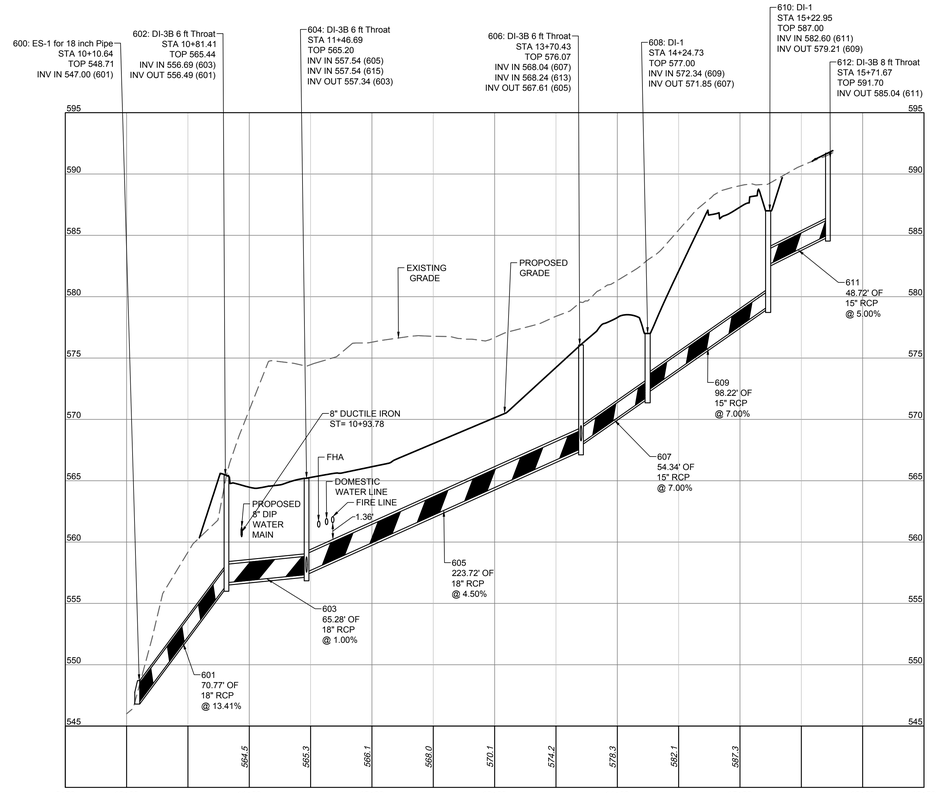
706 - PROFILE
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

STORM STRUCTURE TABLE

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
EX-DI 1	560.90	7.10'	DI-1
EX-2	571.37	10.70'	MH-1
EX-3	577.14	8.10'	MH-1
EX-4	584.44	5.90'	DI-3B 6 ft Throat
100	560.00		EW-1 for 18" Pipe
102	566.26	8.34'	MH-1
104	570.61	11.25'	60" MH-1
200	571.36	10.86'	30" Basin - Solid Top
202	570.42	5.71'	DI-2B 6 ft Throat
204	570.77	5.51'	DI-3B 4 ft Throat
300	571.05	10.55'	30" Basin - Solid Top
302	570.99	6.02'	DI-2B 4 ft Throat
304	571.02	5.02'	DI-2B 4 ft Throat
400	572.07	11.57'	30" Basin - Solid Top
402	577.89	8.37'	DI-2B 4 ft Throat
404	578.20	7.45'	DI-3B 4 ft Throat
406	578.68	5.75'	DI-3C 6 ft Throat
408	579.23	3.85'	DI-3C 6 ft Throat
410	579.46	5.22'	DI-3B 4 ft Throat
500	566.66		ES-1 for 18 inch Pipe
502	569.01	3.95'	DI-3B 6 ft Throat
504	571.94	4.92'	DI-3B 6 ft Throat
506	567.86		ES-1 for 18 inch Pipe
508	567.42		ES-1 for 12 inch Pipe
510	570.09		ES-1 for 12 inch Pipe
600	548.44		ES-1 for 15 inch Pipe
602	565.44	8.95'	DI-3B 6 ft Throat
604	565.20	7.86'	DI-3B 6 ft Throat
606	576.07	8.46'	DI-3B 6 ft Throat
608	577.00	5.15'	DI-1
610	587.00	7.79'	DI-1
612	591.70	6.67'	DI-3B 8 ft Throat
614	576.10	7.56'	DI-3B 6 ft Throat
616	565.21	7.38'	DI-3B 6 ft Throat
620	581.39	5.09'	DI-3B 4 ft Throat
622	584.84	4.63'	DI-3B 6 ft Throat
624	579.44	5.76'	MH-1
626	579.00	4.54'	DI-1
628	571.51	7.38'	DI-3C 6 ft Throat
630	578.87	5.24'	DI-3B 4 ft Throat
632	576.63	8.55'	MH-1
634	570.15	4.49'	DI-1
636	573.81	3.19'	DI-2B 4 ft Throat
700	583.65	5.05'	DI-1
702	582.59	4.95'	DI-1
704	581.59	4.47'	DI-1
706	580.61	5.16'	DI-1
800	583.24	4.85'	MH-1
900	575.00	5.46'	18" Basin - Circular Grate

STORM PIPE TABLE

PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
101	24"	102 - 100	557.92	557.67	1.00%	25.24 LF	24 inch RCP
103	24"	104 - 102	560.00	558.12	1.00%	188.00 LF	24 inch RCP
201	18"	200 - 202	562.95	564.71	2.53%	69.40 LF	18 inch RCP
203	18"	204 - 202	565.26	564.91	1.00%	35.42 LF	18 inch RCP
301	18"	302 - 300	564.97	564.60	3.15%	11.59 LF	18 inch RCP
303	18"	304 - 302	566.00	565.07	1.00%	93.40 LF	18 inch RCP
401	18"	402 - 400	569.52	564.60	3.47%	141.83 LF	18 inch RCP
403	15"	402 - 404	569.72	570.75	4.01%	25.71 LF	15 inch RCP
405	15"	406 - 404	573.11	570.85	2.91%	77.82 LF	15 inch RCP
407	15"	408 - 406	575.38	573.22	2.71%	79.67 LF	15 inch RCP
409	15"	410 - 404	574.23	570.85	3.00%	112.81 LF	15 inch RCP
501	18"	502 - 500	565.06	564.95	0.60%	17.85 LF	18 inch RCP
503	15"	504 - 502	567.02	565.16	1.69%	110.40 LF	15 inch RCP
505	18"	506 - 502	566.19	565.16	3.09%	33.45 LF	18 inch RCP
509	12"	510 - 508	568.92	566.25	13.75%	19.43 LF	15 inch RCP
601	15"	602 - 600	556.49	547.00	13.41%	70.77 LF	18 inch RCP
603	15"	604 - 602	557.34	556.69	1.00%	65.28 LF	18 inch RCP
605	15"	606 - 604	567.61	557.54	4.50%	223.72 LF	18 inch RCP
607	15"	608 - 606	571.85	568.04	7.00%	54.34 LF	15 inch RCP
609	15"	610 - 608	579.21	572.34	7.00%	98.22 LF	15 inch RCP
611	15"	612 - 610	585.04	582.60	5.00%	48.72 LF	15 inch RCP
613	15"	614 - 606	568.54	568.24	1.00%	30.00 LF	15 inch RCP
615	15"	616 - 604	557.84	557.54	1.00%	29.48 LF	15 inch RCP
621	18"	620 -	576.30	576.14	3.00%	5.39 LF	18 inch RCP
625	15"	626 - 624	574.46	573.88	3.00%	19.17 LF	15 inch RCP
629	15"	628 - EX-2	564.13	563.83	2.00%	15.12 LF	15 inch RCP
631	15"	630 - EX-3	573.62	573.18	1.00%	44.60 LF	15 inch RCP
701	8"	700 -	578.68	578.35	2.00%	16.51 LF	8" HDPE
703	8"	702 -	577.71	577.38	2.00%	16.42 LF	8" HDPE
705	8"	704 -	577.20	576.87	2.00%	16.44 LF	8" HDPE
707	8"	706 -	575.50	575.00	2.00%	25.10 LF	8" HDPE



STORM SEWER PROFILE - STR 612-600
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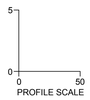
VERT SCALE: 1"=5



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1840 WEST BROAD STREET
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RICHMOND, VA 23220
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COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

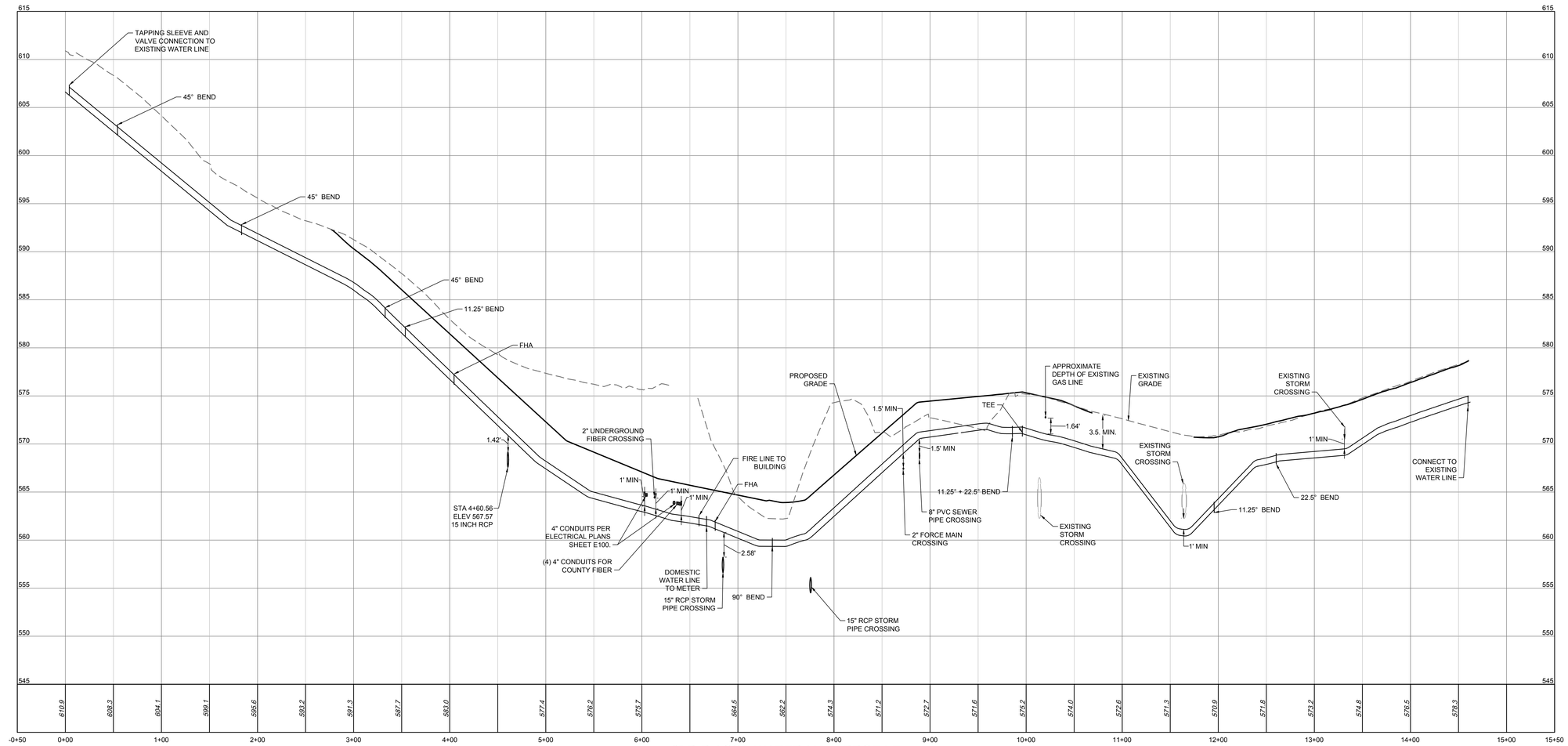
PROJECT MANAGER: J. Showalter
DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

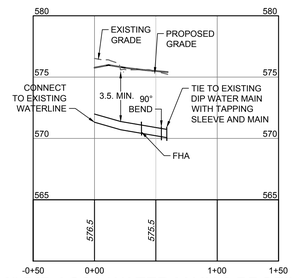
STORM PROFILES

C7.1



8" DIP ACSA WATER MAIN PROFILE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



8" DIP ACSA WATER MAIN 2 PROFILE

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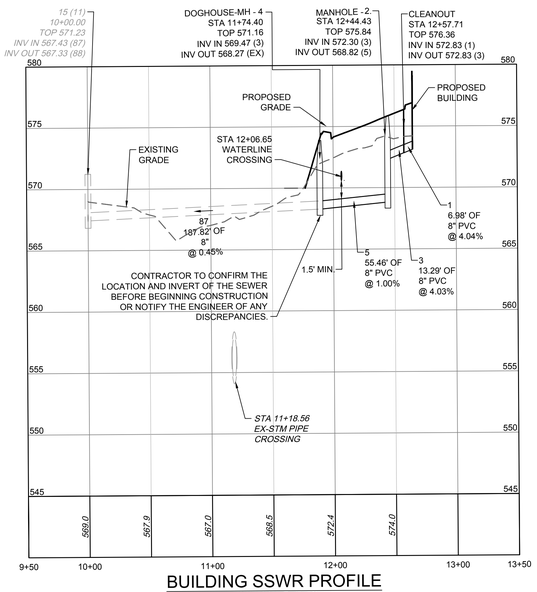
VERT SCALE: 1"=5



BUILDING SSWR PROFILE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

5
0
0
50
PROFILE SCALE

PATH & FILENAME:
PLOTTING DATE & TIME:

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
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DRAWN BY: S. Kirby/A. Flint

QEA No.41911390

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10/02/2024

UTILITY PROFILES

C7.2

NOTES & LEGENDS

QTY.	HEADS
56	● – TORO T7 SERIES GEAR DRIVEN MULTIPLE NOZZLE POP-UP SPRINKLER WITH 12.0 NOZZLE, 12.7 GPM.

PIPE

4,823 LF ——— – DENOTES ROUTE OF PR 200 PVC LATERAL PIPING. (SIZE AS LABELED)

496 LF – – – – DENOTES ROUTE OF PR 200 MAIN LINE PIPING. (SIZE AS LABELED)

VALVES

18 – LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, TORO P220-06-0X. THE IRRIGATION CONTRACTOR SHALL INSTALL A 1" PVC BALL VALVE IN FRONT OF EACH CONTROL VALVE FOR ZONE ISOLATION. (SIZE AS LABELED)

2 – LOCATION OF LINE SIZED ISOLATION VALVE.

1 (MV) – LOCATION OF THE 2" MASTER VALVE, TORO P220-26-06.

CONTROLLER

1 (A) – LOCATION OF THE IRRIGATION CONTROLLER. THE CONTROLLER SHALL BE A IRRITROL TOTAL CONTROL SERIES SOLID STATE UNIT WHICH SHALL BE OF THE WALL MOUNT STYLE. THE CONTROLLER SHALL BE OF THE MODEL NUMBER TC-18EX-R. THE CONTROLLER SHALL BE MOUNTED IN THE APPROXIMATE LOCATION SHOWN ON THE PLAN.

– ALL ELECTRICAL CONNECTIONS AND INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.

– CONTRACTOR TO CONFIRM EXISTING POWER CIRCUIT MEETS THE FOLLOWING REQUIREMENTS:120 VAC POWER CIRCUIT AT THE CONTROLLER LOCATION. THE POWER SOURCE SHALL BE CAPABLE OF SUPPORTING A 10 AMPERE LOAD AT 120 VAC. IF POWER IS NOT ADEQUATE, COORDINATE WITH OWNER BEFORE BEGINNING CONSTRUCTION

1 SENSORS

(R) – DENOTES THE LOCATION OF WIRELESS RAIN SENSOR.

1 BACKFLOW PREVENTION

– DENOTES THE LOCATION OF REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 2" IN SIZE.

1 WATER SUPPLY

(M) – DENOTES THE LOCATION OF THE PROPOSED IRRIGATION METER. THE METER SHALL BE THE OWNER'S RESPONSIBILITY. THE METER SHALL BE 1.5" IN SIZE.

PUMP & ACCESSORIES

– IF THE NECESSARY PRESSURE TO OPERATE THE IRRIGATION SYSTEM PROPERLY IS NOT AVAILABLE, A BOOSTER PUMP WILL BE REQUIRED TO BE INSTALLED AT THE OWNER'S EXPENSE.

– THE IRRIGATION SYSTEMS SHALL BE CAPABLE OF DELIVERING 55 GPM AT 95 PSI MAXIMUM WITH ONE STATION OPERATING WITH 60 PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM AS DESIGNED AND SPECIFIED.

NOTE: IF THE WATER SUPPLY IS NOT CAPABLE OF THE DESIGNED CAPACITY (FLOW AND/OR PRESSURE), THE IRRIGATION SYSTEM WILL NEED TO BE REDESIGNED, WHICH MAY ALTER THE IRRIGATION MATERIAL ESTIMATE.

SLEEVING

– WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE PIPE THAT IS CROSSING THROUGH IT.

NOTE: THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER OR HIS REPRESENTATIVE.

THIS DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWINGS SUPPLIED BY THE CLIENT OF RECORD WITH DESIGN CRITERIA BEING SET BY THE CLIENT AND/OR PROJECT OWNER (I.E. AREA TO BE IRRIGATED, MANUFACTURER'S EQUIPMENT TO BE EMPLOYED, WATER SOURCE (LOCATION, FLOW & PRESSURE) CAPACITIES, ELECTRICAL POWER AVAILABILITY FOR IRRIGATION SYSTEM USE, ETC.). SMITH TURF & IRRIGATION BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR APPLICATION WHICH MIGHT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SMITH TURF & IRRIGATION IN RELATION TO THIS SPECIFIC PROJECT UNLESS OTHERWISE NOTED.

CONTRACTOR TO FIELD LOCATE EXISTING CONTROLLER & TIE INTO POWER IF IT MEETS REQUIREMENTS. SEE IRRIGATION NOTES FOR DETAIL.

APPROXIMATE LOCATION OF CONTROLLER, METHOD OF INSTALL & MOUNTING HEIGHT TO MATCH EXISTING IRRIGATION EQUIPMENT

SYSTEM DESIGNED AS A BEST CASE SCENARIO, COORDINATE WITH OWNER TO REUSE EXISTING IRRIGATION METER (IF 1.5" OR GREATER) AND COMPONENTS IF ADEQUATE, IF NOT COORDINATE WITH OWNER ON NEW METER AND COST CHANGES

CONTRACTOR TO TIE INTO EXISTING IRRIGATION SYSTEM IF APPLICABLE

LIMIT OF SUE INFO

SCALE 1"=30'
0 30' 60'

PATH & FILENAME:
PLOTTING DATE & TIME:

STI 1925
2201 Dabney Road
Richmond, Virginia 23230
Phone: 804-355-6404

EPA WaterSense PARTNER

J. FELICE HALL CERTIFIED IRRIGATION DESIGNER #033279 COMMERCIAL

Albemarle County Public Schools

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No.	Date	Description

PROJECT MANAGER: C.OLDAKER
DRAWN BY: F. HALL

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

IRRIGATION PLAN

L1.0

ALBEMARLE HIGH SCHOOL
IRRIGATION SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

1. Drawings and general provision of Contract, including General and Special Conditions, apply to work of this section.

1.2 DESCRIPTION

1. Provide a complete underground irrigation system for the site as shown and specified. The work includes: Automatic irrigation system including piping, fittings, sprinkler heads, and accessories.
   1. Automatic irrigation system including piping, fittings, sprinkler heads, and accessories.
   2. Valves and fittings.
   3. Controller and central control computer.
   4. Control wire.
   5. Testing.
   6. Excavating and back filling irrigation system work.
   7. Booster Pump

1.3 QUALITY ASSURANCE

1. Installers qualifications:
   1. Upon request, contractor must provide the following, to include name of contact, name of project, address of project, & phone number of contact. If all of this criteria can't be met, then contractor will be disqualified:
      1. Virginia class A contractor's license showing a specialty in irrigation in continued force for the last 5 years.
      2. General liability insurance to $1,000,000.
      3. Five verifiable references in Virginia to attest to the contractor's ability to install.
   2. Projects of the size and complexity of this project.
   3. Experience of individual working for the contracting company will not be accepted as qualified job submittals. Experience must come from the company. Omission of any required information will be grounds for disqualification.
   4. Contractor's primary business is to be irrigation installation.

Primary defined as 60% of the contractor's business is to be derived from irrigation installation. Verification may be required.
   5. Only one irrigation bid will be accepted for the project. No qualified bids will be accepted.

2. Conform to applicable codes for piping and component requirements.

3. Materials, equipment, and methods of installation shall comply with the following codes and standards:
   1. Albemarle County, Public Utilities and Public Works Standards.
   2. National Fire Protection Association, (NFPA): National Electrical Code.
   3. American Society of Testing and Materials, (ASTM).
   4. National Sanitation Foundation, (NSF).

4. Obtain Irrigation Designers acceptance of installed and tested irrigation system prior to installing backfill materials. All mainline PVC must meet these criteria.

1.4 SUBMITTALS

1. Submit manufacturer's product data and installation instructions for each of the system components to include electric valves, heads, controller, wire, pipe, fittings, valve boxes, manual valves, wire splices, and all other equipment installed on project. Submittals must be organized and semi-permanently bound in booklet form with a table of contents to each section. This book must be periodically updated as material changes on the project.

2. Submit the following material samples:
   1. Piping and fittings
   2. Clamps
   3. Wire connectors and sealer

3. Submit the following equipment samples:
   1. Sprinkler heads, 1 of each type, complete with housing
   2. Valves and valve access boxes
   3. Controller

4. Approved equipment samples will be returned to contractor and may be used in the work.

5. Upon irrigation system acceptance, submit written operating and maintenance instructions. Provide format and contents as directed by the Irrigation Designer.

1.5 DELIVERY, STORAGE, AND HANDLING

1. Deliver irrigation system components in manufacturer's original undamaged and unopened containers with labels intact and legible. Site contractor will provide staging area.

2. Deliver plastic piping in bundles, packaged to provide adequate protection of pipe ends, either threaded or plain.

3. Store and handle materials to prevent damage and deterioration.

4. Provide secure, locked storage for valves, sprinkler heads, and similar components that cannot be immediately replaced, to prevent installation delays.

1.6 PROJECT CONDITIONS

1. Known underground and surface utility lines are indicated on the utilities drawings.

2. Protect existing trees, plants, lawns, and other features designated to remain as natural area.

3. Promptly repair damage to adjacent facilities caused by irrigation system work operations. Cost of repairs at Contractors expense.

4. Promptly notify the Irrigation Designer of unexpected sub-surface conditions.

5. Irrigation system layout is diagrammatic. Contractor and the Irrigation Designer in the field shall establish exact locations of piping, sprinkler heads, valves, and other components at time of installation. Contractor will stake mainline and all heads and valves and receive approval from irrigation designer prior to excavation. Contractor is ultimately responsible for maintaining 100% coverage on entire irrigated site.
   1. Space sprinkler components as indicated.
   2. Minor adjustments in system layout will be permitted to clear existing fixed obstructions. Final system layout shall be acceptable to the Irrigation Designer.
6. Cutting and patching:
   1. Cut through concrete and masonry with core drills. Jackhammers not permitted.
   2. Materials and finishes for patching shall match existing cut surface materials and finish. Exercise special care to provide patching at openings and exterior walls. Subject to approval of General

Contractors Representative.
   3. Methods and materials used for cutting and patching shall be acceptable to the Irrigation Designer.

PART 2 - PRODUCTS

2.1 MATERIALS

1. General:
   1. Provide only new materials, without flaws or defects and of the highest quality of their specified class and kind to be provided by an authorized Product Distributor. Product distributors will be asked to submit their factory authorization to sell and service all components that they provide.
   2. Comply with pipe sizes indicated. No substitution of smaller pipes will be permitted. Larger sizes may be used subject to acceptance of the Irrigation Designer. Remove damaged and defective pipe.
   3. Provide pipe continuously and permanently marked with manufacturer's name or trademark, size schedule and type of pipe, working pressure at 73 degrees F. and National Sanitation Foundation (NSF) approval.

2. Plastic pipe, fittings, and connections:
   1. 2.5" diameter and under: SDR21, class 200, bell end PVC.
   2. PVC pipe fittings: ASTM D2241 schedule 40 PVC molded fittings suitable for solvent weld connections. Fittings made of other materials are not permitted. Saddle and cross fittings are not permitted.

3. Sprinkler heads, valves, and associated equipment: Provide manufacturer's data on each type of equipment to obtain Irrigation Designers approval.
   1. Outlets
      1. Sprinklers: 1" threaded inlet, stainless steel riser with the ability to mount 2" below grade. Sprinklers shall discharge 12.7 GPM @60 PSI base pressure. Sprinklers shall be model T7 as manufactured by The Toro Company, Riverside, California.
   2. Valves
      1. Automatic remote control valves (RCV) shall be sized as specified on drawings. RCVs shall be installed per manufacturer's recommendations and shall be rated for pressure and flow as required. RCVs shall be low voltage. Valves shall be constructed of plastic. Valves shall be the P220-26-00 size indicated on model as manufactured by

The Toro Company, Riverside, California.
   3. Wire
      1. Control wire shall be 14/1 gauge UL/UF, direct burial red in color. Common wire shall be 14/1 gauge UL/UF, direct burial white in color.
      2. All wire splices below grade shall be made waterproof with correctly sized wire splice connectors, made for direct burial and rated for minimum of 30 volts.
      3. Wire shall be color-coded. White is to be used for common, red is to be used for control, blue for extra, green for stub-out and yellow for sensor. Any deviation will be replaced.
   4. Field controller
      1. Field controller shall have 18 zones and be installed in metal lockable cabinet. Controller shall have four independent programs, non-volatile memory, battery back up, water delay, seasonal adjust. Controller shall be Irritrol Total Control manufactured by the Toro Company.
   5. Sleeves
      1. Sleeves shall be schedule 40 PVC as indicated on the plan. Any additional sleeves shall be two sizes larger than the pipe routed through them.

2.3 ACCESSORIES

1. Drainage fill: 2" washed pea gravel.

2. Fill: Clean soil free of stones larger than 1" diameter foreign matter, organic material, and debris.
   1. Provide imported fill material as required to complete the work. Obtain rights and pay all costs for imported materials.
   2. Suitable excavated materials removed to accommodate the irrigation system work may be used as fill material subject to the Irrigation Designers review and acceptance.

3. Low voltage wire connectors: Socket seal type wire connectors and waterproof gel sealer with wire connectors 3M DBY's and DBR's or approved equal only.

4. Valve access boxes.
   1. Ametek shall manufacture valve access boxes. All valves shall be installed in 10" circular valve boxes.

5. Booster Pump
   1. Installer shall provide booster pump if necessary

6. Water meter installation shall be by others.

7. Backflow preventer shall be of the reduced pressure principal type and be installed as per ALBEMARLE County code. Backflow preventer shall be model 975XL as manufactured by Wilkins.

PART 3 - EXECUTION

3.1 INSPECTION

1. Examine final grades and installation conditions. Verify that field measurements are as shown on drawings. Do not start irrigation system work until unsatisfactory conditions are corrected.
2. Verify the location of utilities, plant materials, shrub bed lines, and tree lines. No irrigation lines are to be routed within 5 feet of any tree on project. Contractor is responsible for coordinating the location of all trees with landscape contractor. No irrigation heads will be installed until all trees have been installed or staked.

3. Verify that required utilities are available, in proper location, and ready for use.

4. Beginning of installation means installer accepts existing conditions.

5. Contractor must provide one experienced on-site foreman or supervisor subject to approval of the irrigation designer, who must be on site at all times when a crew is working.

3.2 PREPARATION

1. Prior to excavation, utility companies shall be notified in accordance with local codes and ordinances. Contractor must contact Miss Utility prior to beginning of installation. All current Miss Utility rules for contact and digging will be followed.

2. Contractor shall be responsible for damage to existing utilities and structures due to negligence and/or misuse by his crews or equipment.

3. Layout and stake the location of each pipe run and all sprinkler heads and sprinkler valves. Obtain Irrigation Designer's acceptance of layout prior to excavating.

4. Place sleeves as necessary for installation of piping and control wire. All piping under walks and walls shall be within a Schedule 40 PVC sleeve 2 sizes larger than the pressure pipe.

3.3 INSTALLATION

1. Excavating and back filling:
   1. All excavation shall be considered unclassified excavation and include all material encountered.
   2. Excavate trenches of sufficient depth and width to permit proper handling and installation of pipe and fittings.
   3. Excavate to depths required to provide 3" depth of debris free earth fill or sand bedding for piping when rock or other unsuitable bearing material is encountered.
   4. Fill to match adjacent grade elevations with approved earth fill material. Place and compact fill in layers not greater than 8" depth.
      1. Provide approved earth fill or sand to a point 4" above the top of pipe.
      2. Fill to within 6" of final grade with approved excavated or borrow fill materials free of lumps or rocks larger than 1" in any dimension.
      3. Provide clean topsoil fill free of rocks and debris for top 6" of fill.
   5. Install irrigation lateral lines with a minimum cover of 18" based on finished grades. Install irrigation mainline with a minimum of 24" based on finished grade.
   6. Excavate trenches and install piping and fill during the same working day. Do not leave open trenches or partially filled trenches open overnight.
   7. Replace stripped sod in sufficient time to allow for satisfactory sod recovery and growth. Water stripped and reinstalled sod until irrigation system is place in operation.
   8. Valves boxes installed per specifications on design.

2. Plastic pipe:
   1. Install plastic pipe in accordance with manufacturer's installation instructions. Provide for thermal expansion and contraction. Do not install plastic pipe if temperature is below 32 degrees.
   2. Saw cut plastic pipe. Use an electric miter saw, to ensure a square cut. Remove burrs and shavings at cut ends prior to installation. Use a hand beveller on all gasket pipe cuts.
   3. Make plastic-to-plastic joints with solvent weld joints or slip seal joints. Use only solvent recommended by the pipe manufacturer. Install plastic pipefittings in accordance with pipe manufacturer's instructions. Contractor shall make arrangements with pipe

manufacturer for all necessary field assistance.
   4. Make plastic to metal joints with plastic male adapters.
   5. Make solvent weld joints in accordance with manufacturer's recommendations.
   6. Allow joints to set **at least 24 hours** before pressure is applied to the system.
   7. Maintain pipe interiors free of dirt and debris. Close open ends of pipe by acceptable methods (duct tape ends) when pipe installation is not in progress.

3. Sprinklers, fittings, valves, and accessories:
   1. Install fittings, valves, sprinkler heads, risers, and accessories in accordance with manufacturer's instructions, except as otherwise indicated.
   2. Set sprinkler heads perpendicular to finished grades, except as otherwise indicated.
   3. Locate sprinkler heads to assure proper coverage of indicated areas. Do not exceed sprinkler head spacing distances indicated.
   4. Install quick-coupling valves with an adjustable double swing joint riser assembled by the use of at least 3 standard 90-degree elbows. Pre-fabricated swing joints are acceptable.
   5. Install controller in accordance with manufacturer's written instructions. All controller footings will be 12" deep concrete.
   6. Install valve access boxes on a suitable base of bricks to provide a level foundation at proper grade and to provide drainage of the access box. 11/2 cubic feet of pea gravel below box to be provided for drainage.
   7. Automatic valves shall be installed plumb with valve access box with all valve handles, bolts, connections and electrical splices accessible through the valves box opening (not less than 6" below valve box cover).
   8. All seal threaded connections of control valves with Teflon tape. **Plastic joint type compound is not acceptable.**

4. Control wiring:
   1. Install electric control cable in the piping trenches wherever possible. Place wire is trench adjacent to pipe. Install wire with slack to allow for thermal expansion and contraction. Expansion joints in wire may be provided at 200-foot intervals. Where necessary to run wire in a separate trench, provide a minimum cover of 15". Wire cannot be plowed or pulled with a vibratory plow.
   2. Provide sufficient slack at site connections at remote control valves in control boxes and at all wire splices to allow raising the valve bonnet or splice to the surface without disconnecting the wires when repair is required.

PATH & FILENAME:
PLOTTING DATE & TIME:

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EPA WaterSense PARTNER

J. FELICE HALL CERTIFIED IRRIGATION 003279 DESIGNER COMMERCIAL

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO.
002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: C.OLDAKER
DRAWN BY: F. HALL

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

IRRIGATION NOTES AND DETAILS

L2.0

3. Connect each remote control valve to one station of a controller except as otherwise indicated.
4. Connect remote control valves for each controller to a common ground wire system, independent of all other controllers.
5. Make wire connections to remote control electric valves and splices of wire in the field, using water proof wire connectors and sealing cement in accordance with manufacturer's recommendations, dry splices will not be accepted. Make wire splices in accessible splice or valve boxes 10" in diameter or greater.
6. Provide tight joints to prevent leakage of water and corrosion build-up on the joint.
7. When control wiring is in common trench with main line, wiring shall be below main line with 4" of fill dirt between pipe and wire.
8. Aboveground wire is to be installed in conduit and/or in accordance with electrical codes.
9. All materials and methods of installation shall conform to local electrical codes.

5. Quick-Coupling valves

1. When installed in lawn area, provide a 10" valve box for location. Stabilize the valve with a stake and 11/2" cubic feet of pea gravel (1/2 to 3/4").

6. Field satellite

1. Field satellite shall be installed as per manufacturer's recommendation. All grounding equipment necessary shall be included.

7. Flushing, testing, and adjustment
1. After sprinkler piping and risers are installed and before sprinkler heads are installed, open control valves and flush out the system with full head of water.
2. Perform system testing upon completion of each section. Make necessary repairs and retest-repaired sections as required.
3. Adjust sprinklers after installation for proper and adequate distribution of the water over the coverage pattern. Adjust for the proper arc of coverage.
4. Adjust all electric remote control valve flow control stems for system balance. Contractor must set pressure-regulating valves prior to acceptance specification on design.
5. Test and demonstrate the controller by operating all programs, day, hour, and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions.

8. Service:
1. When requested, return to the site during the subsequent fall season and winterize the system. Drain all water from the system and blow out the system with compressed air.
2. When requested, return to the site during the subsequent spring season and demonstrate to the Owner Representative the proper procedures for the system start-up, operation, and maintenance.
3. After 3 months of continuous operation, after acceptance of job, contractor must return to the site and re-adjust all irrigation heads, by re-packing heads that have become dislodged due to resettling of ground, torque of spray, or vibration. Re-adjust radius, arc, and trajectory of spray of all heads.

3.4 DISPOSAL OF WASTE MATERIAL

1. Stockpile, haul from site, and legally dispose of waste materials, including unsuitable excavated materials, rock, trash, and debris.

2. Maintain disposal route clear, clean, and free of debris.

3.5 ACCEPTANCE

1. Test and demonstrate to the Irrigation Designer the satisfactory operation of the system free of leaks.

2. Instruct the Owners designated personnel in the operation of the system including adjustment of sprinklers, controller(s), valves, and pump controls.

3. Upon acceptance, the Owner will assume operation of the system.

4. Provide owner with all manuals for products used on project.

5. Provide irrigation system record drawings:
1. Legibly mark drawings to record actual construction.
2. Indicate a measured distance triangulated to locate each installed valve-automatic, manual, quick-coupling type.
3. Identify field changes of dimension and detail and changes made by Change Order, if any.
4. Submit 3 copies of As-Built drawings to the owner on base drawings provided by the irrigation designer.
5. As-Builts shall also indicate control valve wiring routing paths, wire splice locations, and controller location.

3.6 GUARANTEE

1. The contractor shall guarantee all workmanship covered by the specifications to be free of defects for a period of one (1) year from the date of final acceptance of the project. He shall replace any part or parts found to be defective within the period of guarantee at no cost to the owner, except repairs or replacement necessitated by damage by others.
2. Back filling of all excavation shall be guaranteed. If, at any time during the first year of the guarantee period, trenches or heads should settle, the irrigation contractor shall repair any settling at no cost to the owner.

3.7 CLEANING

1. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soil, debris, and equipment. Repair damage resulting from irrigation system installation.

END

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J. FELICE HALL CERTIFIED IRRIGATION 003279 DESIGNER COMMERCIAL

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NEW CONSTRUCTION HIGH SCHOOL CENTER II

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PROJECT MANAGER: C.OLDAKER
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IRRIGATION NOTES AND DETAILS

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PATH & FILENAME:
PLOTTING DATE & TIME:

SECTION 32 18 23.26 – ATHLETIC FIELD TURF

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the Contract Documents apply to the work of this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Fine grading and preparing athletic fields
2. Topsoil Placement
3. Soil amendments
4. Fertilizers

1.3 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

PART 2 - PRODUCTS

2.1 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 6.0 to 7.0 , a minimum of 6 percent organic material content; free of stones ½" or larger in any dimension and other extraneous materials harmful to plant growth.

1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.

a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.

B. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary. Add amendments to topsoil as necessary to meet these requirements.

2.2 INORGANIC SOIL AMENDMENTS

A. If the topsoil analysis indicates the need for inorganic soil amendments, the following standards apply:

B. Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:

1. Class: Class O, with a minimum 95 percent passing through No. 8 (2.36-mm) sieve and a minimum 55 percent passing through No. 60 (0.25-mm) sieve.
2. Provide lime in form of dolomitic limestone.

C. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum 99 percent passing through No. 6 (3.35-mm) sieve and a maximum 10 percent passing through No. 40 (0.425-mm) sieve.

D. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

E. Aluminum Sulfate: Commercial grade, unadulterated.

F. Perlite: Horticultural perlite, soil amendment grade.

G. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.

H. Sand: Clean, washed, natural or manufactured, free of toxic materials.

I. Diatomaceous Earth: Calcined, diatomaceous earth, 90 percent silica, with approximately 140 percent water absorption capacity by weight.

J. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

2.3 ORGANIC SOIL AMENDMENTS

A. If the topsoil analysis indicates the need for organic soil amendments, the following standards apply:

B. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch (19-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:

1. Organic Matter Content: 50 percent of dry weight.
2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
3. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
4. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
5. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

2.4 FERTILIZER

A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 4 percent nitrogen and 20 percent phosphoric acid.

B. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of 20 percent available phosphoric acid.

C. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in topsoil analysis reports from a qualified soil-testing agency.
2. Minimum Composition: No less than 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.

2.5 SEEDING

A. Athletic Field Mix

Botanical Name	Common Name
30.00 % Festuca arundinacea, 'FoxHound'	Tall Fescue, 'FoxHound' (turf type)
30.00 % Lolium perenne, Green Supreme +	Perennial Ryegrass, Green Supreme +
15.00 % Poa pratensis, 'Maverick'	Kentucky Bluegrass, 'Maverick'
15.00 % Poa pratensis, 'Shamrock'	Kentucky Bluegrass, 'Shamrock'
10.00 % Lolium multiflorum	Annual Ryegrass

1. The Athletic field should be seeded at a rate of 75-150 lb per acre, or 3-5 lb per 1000 sq ft

2.6 MULCHES

A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.

B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

2.7 EROSION-CONTROL MATERIALS

A. Erosion-Control Fiber Mesh: Biodegradable twisted jute or spun-coir mesh, a minimum of 0.92 lb/sq. yd. (0.5 kg/sq. m), with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive athletic field turf for compliance with requirements and for conditions affecting performance of the Work. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 TOPSOIL PLACEMENT FOR ATHLETIC FIELDS

A. Laser grade subgrades for athletic fields. Subgrade tolerance shall be within a tolerance of plus or minus ½" when measured with a 10 foot straight-edge.

B. Limit subgrade preparation to areas that will be planted in the immediate future.

C. Loosen subgrade to a minimum depth of 4 inches. Remove stones, sticks and roots larger than 1 inch in any dimension from subgrade. Completely remove trash and other extraneous debris from subgrade.

D. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary.

E. Sift topsoil to remove stones and other objects larger than ½" in any dimension. Maximum object size for topsoil shall be achieved by sifting not by hand removal or raking following placement of topsoil.

F. Mix soil amendments and fertilizers with topsoil at rates required by soil testing. Delay mixing fertilizer if planting does not follow placing of planting soil within 4 days. Either mix soil before spreading or apply soil amendments on surface of spread topsoil and mix thoroughly into top 4 inches (100 mm) of topsoil before planting.

G. Mix lime with dry soil prior to mixing fertilizer.

H. Spread topsoil to a minimum depth of six inches (6").

I. Final topsoil grades shall be within a tolerance of plus or minus ½" when measured with a 10 foot straight-edge. No ponding areas or localized low spots are acceptable.

3.4 MAINTENANCE OF NEW ATHLETIC FIELD TURF

A. Begin maintenance of athletic field turf immediately after each area is planted and continue until accepted by Owner.

B. Maintain and establish athletic field turf by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth athletic field surface.

C. Replant bare areas with same materials.

D. Replace disturbed mulch.

E. Watering: Provide and maintain temporary hoses, and lawn-watering equipment to convey water from a water source to keep athletic field turf uniformly moist to a depth of 4 inches.

F. Provide a source of water for irrigation. Utilize temporary irrigation meters, a well or water trucks as necessary for the water source.

G. Water sprigged and sodded areas per the requirements of the grower. Maintain moist soil to a depth of at least four inches.

H. Fertilizer formulas will be selected after soil testing and in accordance with Virginia Department of Agriculture regulations. Fertilizer applications will be made as follows:

I. For ryegrass-overseeded Bermuda grass fields, spring fertility programs with Nitrogen will begin after the first mowing.

J. Non-overseeded Bermuda grass fields will not be fertilized in the Spring until after the sod is almost green.

K. Once the sod turns green & during the growing season, applications of 1 pound of Nitrogen per 1000 sq. ft. shall be made every 4 weeks through August.

L. From September to November, Nitrogen shall be applied at the rate of 0.25 pound to 0.5 pound per 1000 sq. ft. every 2-3 weeks until a killing frost occurs.

M. Mow athletic field turf as soon as there is enough top growth to cut with mower set at indicated height. Repeat mowing as required to maintain indicated height without cutting more than 40 percent of the grass height (minimum of 3 mowings). Remove no more than 40 percent of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain following grass height:

N. Mow grass to a finished height of 1 to 1.5 inches high.

O. Mow bermudagrass fields utilizing a reel type mower.

P. Apply pre-emergent herbicide to turf-grass areas. Apply 60-90 days after planting.

3.5 SATISFACTORY ATHLETIC FIELD TURF

A. Athletic field turf shall be considered satisfactory/acceptable provided requirements, including maintenance, have been met and a healthy, uniform, close stand of grass is established, free of weeds, bare spots exceeding 2 by 2 inches, and surface irregularities.

B. Replant athletic field turf that does not meet requirements and continue maintenance until they are satisfactory/acceptable.

C. Athletic field surfaces shall be free of irregularities and shall have a surface smoothness within a tolerance of plus or minus ½" as measured with a 10' straightedge. No ponding areas or localized low spots are acceptable.

D. Substantial Completion of the building and the remainder of the project may be achieved (pending prior Architect and Owner approval) before achieving satisfactory/acceptable athletic field turf. Continue to replant and maintain unsatisfactory/unacceptable athletic field turf until acceptance is obtained. Warranties for athletic field turf shall begin at the time of acceptance.

3.6 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by lawn work from sidewalks and paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto surface of roads, walks, or other paved areas.

B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period until lawn is established.

END OF SECTION 32 18 23.26

PATH & FILENAME:
PLOTTING DATE & TIME:

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TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
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10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO.
002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No.	Date	Description

PROJECT MANAGER: C.OLDAKER
DRAWN BY: E.ESPINO

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

REVEGETATION NOTES

L3.0

Notes

SITE OVERVIEW

THE HSC II SITE IS LOCATED IN ALBEMARLE COUNTY, VIRGINIA, WITHIN THE PIEDMONT REGION. THE SITE IS LOCATED ON THE WEST SIDE OF THE BUILDING, AND THE LAND TOTALS APPROXIMATELY 2.43 ACRES. THE CULPEPER FINE SANDY LOAM AND UDORTHENTS LOAMY SOILS ARE PREDOMINATELY COMPOSED OF MODERATELY WELL- TO WELL-DRAINED SILT LOAM.

OVERVIEW OF PLANTING REQUIREMENTS

PLANTING MUST TAKE PLACE IN THE FALL (LATE OCTOBER OR NOVEMBER); IF FALL PLANTING IS NOT FEASIBLE, PLANTING MAY TAKE PLACE IN EARLY SPRING. PRIOR TO PLANTING, SITE PREPARATION MUST INCLUDE (1) THE IDENTIFICATION OF INVASIVE SPECIES AND NOXIOUS WEEDS, AND SPOT-TREATMENT AS NEEDED; (2) MOWING EXISTING WEEDY VEGETATION; AND (3) SOIL PREPARATION TECHNIQUES AS REQUIRED IN THE SOIL PREPARATION SPECIFICATION. A NATIVE SEED COVER WITH A TEMPORARY SEED MATRIX MUST BE APPLIED TO BOTH TEMPORARILY AND PERMANENTLY STABILIZE THE SOIL BEFORE THE SEEDLINGS BECOME ESTABLISHED.

SOIL ANALYSIS AND PREPARATION

SOIL ANALYSIS WILL BE CONDUCTED PRIOR TO SOIL PREPARATION AND PLANTING. THE REQUIRED PHYSICAL AND CHEMICAL SOIL CONDITIONS AND QUALIFIED LABORATORIES FOR SOILING TESTING ARE DICTATED IN THE SOIL PREPARATION SPECIFICATION ON. SOIL TESTING WILL BE REQUIRED TO PROVIDE SOIL IMPROVEMENT RECOMMENDATIONS NECESSARY TO IMPLEMENT THE TARGET VEGETATION COMMUNITY (I.E. GRASS MEADOW). THE FOLLOWING STEPS WILL BE IMPLEMENTED FOR THIS TASK:

1. COLLECT SOIL SAMPLES AT A RATE OF ONE PER FIVE ACRES AND IN ACCORDANCE WITH THE LABORATORY'S REQUIREMENTS, AND SUBMIT FOR ANALYSIS.

2. DEVELOP A SOIL PREPARATION PLAN BASED ON THE RESULTS OF THE ANALYSIS AND RECOMMENDATIONS FROM THE LABORATORY.

3. INCORPORATE SOIL AMENDMENTS PER THE SOIL PREPARATION SPECIFICATION AND THE PLANTING METHODOLOGY PRESCRIBED BELOW. IF SOIL AMENDMENTS ARE NOT RECOMMENDED FOR A PLANTING AREA, CORE AERATE THE AREA BEFORE SEEDING.

PLANTING METHODOLOGY

1. REMOVE INVASIVE SPECIES AND NOXIOUS WEEDS AS NEEDED USING SPOT APPLICATIONS OF HERBICIDE AND MOWING WITH A BUSH HOG.

2. PREPARE SOIL PER THE SOIL PREPARATION PRESCRIBED ABOVE.

3. PLANT A TEMPORARY STABILIZATION GRASS SEED MIX BY BROADCASTING OR DRILLING. DRILLING IS PREFERRED (OUTSIDE OF AREAS WITH STEEP SLOPES). IF USING BROADCASTING, THE SOIL MUST BE CORE AERATED BEFORE INSTALLATION. THE ACCEPTABLE SEED MIXES

ARE LISTED ON SHEET C4.25. APPLY AT A RATE OF 40 LBS PER ACRE.

4. PLANT A PERMANENT SEED MIX IN THE FALL (LATE OCTOBER OR NOVEMBER). THE SPECIFIED MIX IS THE ATHLETIC FIELD MIX MIX BY ERNST CONSERVATION SEEDS AS SHOWN IN TABLE 1. APPLY AT A RATE OF 75-150 POUNDS PER ACRE. IF SEEDING IS CONDUCTED OUTSIDE OF OPTIMAL SEED GERMINATION PERIODS, A SEASONALLY-APPROPRIATE COVER CROP MAY NEED TO BE PAIRED WITH THE POLLINATOR-FRIENDLY SEEDING TO SUPPORT SOIL STABILIZATION AND EROSION AND SEDIMENT CONTROL DURING SEED ESTABLISHMENT PERIOD.

MAINTENANCE PLAN

1. MOW THE GRASS COMMUNITY A RECOMMENDED TWO TIMES PER YEAR FOR THE FIRST THREE YEARS AND NO MORE THAN FOUR TIMES

PER YEAR. DELAY MOWING UNTIL LATE SPRING DURING THE FIRST YEAR IF THE NEWLY-GERMINATED COMMUNITY MAY BENEFIT FROM

UNDISTURBED GROWTH.

2. APPLY HERBICIDE AS NEEDED TO CONTROL INVASIVE SPECIES AND NOXIOUS WEEDS SHOULD MOWING NOT PROVE SUFFICIENTLY

EFFECTIVE AT CONTROLLING GROWTH THAT IMPEDES ESTABLISHMENT OF THE GRASS COMMUNITY OR INTERFERES WITH THE SOLAR

FACILITY. IF THE INVASIVE SPECIES OR NOXIOUS WEED IS A BROADLEAF SPECIES, THEN A BROADLEAF HERBICIDE MAY BE USED IN A

BROADCAST APPLICATION. IF THE INVASIVE SPECIES IS A PARALLEL-VEINED SPECIES, THEN SPOT APPLICATION OF HERBICIDE MUST BE

EMPLOYED TO MINIMIZE DAMAGE TO DESIRABLE GRASS SPECIES.

3. IF SEED DOES NOT GERMINATE OR VEGETATION DIES WITHIN THE FIRST THREE YEARS OF ESTABLISHMENT, THE PLANTING MUST BE

REPLACED. BARE OR ERODING AREAS MUST BE IMMEDIATELY STABILIZED WITH GRASS COVER. SPOT FERTILIZATION SHOULD BE APPLIED AS

NEEDED TO INCREASE PLANT VIGOR. DURING THE FIRST YEAR OF ESTABLISHMENT, REPLANT ALL AREAS WITH LESS THAN 40% GROUND

COVER BY FOLLOWING THE ORIGINAL SEEDBED PREPARATIONS, AMENDMENT AND SEEDING REQUIREMENTS. REPLANT ALL AREAS WITH

BETWEEN 40% AND 85% COVER BY OVER-SEEDING AT HALF THE ORIGINAL RATE.

Soil



Albemarle County, Virginia (VA003)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
21C	Culpeper fine sandy loam, 7 to 15 percent slopes	1.1	21.7%
88	Udorthents, loamy, 2 to 25 percent slopes	4.1	78.3%
Totals for Area of Interest		5.3	100.0%

Albemarle County, Virginia

21C—Culpeper fine sandy loam, 7 to 15 percent slopes

Map Unit Setting

- National map unit symbol: kb8l
- Elevation: 340 to 1,210 feet
- Mean annual precipitation: 25 to 65 inches
- Mean annual air temperature: 54 to 59 degrees F
- Frost-free period: 195 to 231 days
- Farmland classification: Farmland of statewide importance

Map Unit Composition

- Culpeper and similar soils: 80 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Culpeper

Setting

- Landform: Hillslopes
- Landform position (two-dimensional): Summit
- Landform position (three-dimensional): Interfluve
- Down-slope shape: Convex
- Across-slope shape: Convex
- Parent material: Residuum weathered from meta-arkosic sandstone and quartzite

Typical profile

- H1 - 0 to 8 inches: fine sandy loam
- H2 - 8 to 30 inches: clay
- H3 - 30 to 37 inches: sandy clay loam
- H4 - 37 to 45 inches: fine sandy loam
- H5 - 45 to 50 inches: bedrock
- H6 - 50 to 79 inches: bedrock

Properties and qualities

- Slope: 7 to 15 percent
- Depth to restrictive feature: 40 to 79 inches to paralithic bedrock; 40 to 79 inches to lithic bedrock
- Drainage class: Well drained
- Runoff class: Medium
- Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 1.98 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water supply, 0 to 60 inches: Moderate (about 6.6 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 3e
- Hydrologic Soil Group: B
- Ecological site: F148XY024PA - Moist, Piedmont - felsic, Upland, Mixed Oak - Hardwood - Conifer Forest

- Hydric soil rating: No

Albemarle County, Virginia

88—Udorthents, loamy, 2 to 25 percent slopes

Map Unit Setting

- National map unit symbol: 2xxz3
- Elevation: 360 to 1,540 feet
- Mean annual precipitation: 25 to 65 inches
- Mean annual air temperature: 54 to 59 degrees F
- Frost-free period: 195 to 231 days
- Farmland classification: Not prime farmland

Map Unit Composition

- Udorthents and similar soils: 85 percent
- Minor components: 5 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents

Setting

- Landform: Interfluves
- Landform position (two-dimensional): Summit
- Landform position (three-dimensional): Interfluve
- Down-slope shape: Convex
- Across-slope shape: Convex
- Parent material: Residuum weathered from granite and gneiss

Properties and qualities

- Slope: 2 to 25 percent
- Depth to restrictive feature: More than 80 inches
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None

Minor Components

Hatboro, occasionally flooded

- Percent of map unit: 5 percent
- Landform: Flood plains
- Down-slope shape: Linear
- Across-slope shape: Linear
- Hydric soil rating: Yes

Expand Description — Map Unit Description

Seeding

Botanical Name	Common Name
30.00 % Festuca arundinacea, 'FoxHound'	Tall Fescue, 'FoxHound' (turf type)
30.00 % Lolium perenne, Green Supreme +	Perennial Ryegrass, Green Supreme +
15.00 % Poa pratensis, 'Maverick'	Kentucky Bluegrass, 'Maverick'
15.00 % Poa pratensis, 'Shamrock'	Kentucky Bluegrass, 'Shamrock'
10.00 % Lolium multiflorum	Annual Ryegrass

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Ernst Conservation Seeds Inc
8884 Mercer Pike
Meadville, PA 16335-9275
Phone (814) 336-2404; (800) 873-3321; Fax (814) 336-5191
www.ernstseed.com; sales@ernstseed.com

QUOTE

Quote Number	Q299046
Quote Date	9/12/2024
Page Number	1 of 1

BILL TO:
Timmons Group
Kick Thomas/Rebecca Napier
1001 Boulders Pkwy Ste 300
Richmond, VA 23225-5512

SHIP TO:
Timmons Group
1001 Boulders Pkwy Ste 300
Richmond, VA 23225-5512
ATTN: Rick Thomas/Rebecca Napier
UNITED STATES
Phone: 804-200-6500

Phone 804-200-6500
Fax 804-560-1648
Email bryan.mcknight@timmons.com

Customer PO#	Customer ID	Shipping Method	UPS Shipper #	Terms	Salesperson ID
EM 091224 PM	TIMM002	UPS GROUND		Credit Card	

Bulk Qty	PLS Qty	UOM	Item Number	Description	Unit Price	Ext. Price
1.000		LB BLK	ERNMX-036S	Athletic Field Mix Seeding rate 75-150 lb per acre, or 3-5 lb per 1,000 sq ft	$3.70000	$3.70

- Landform position (two-dimensional): Summit
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QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

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TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/08/2024
PROFESSIONAL ENGINEER

Albemarle County Public Schools

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No. Date Description

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DRAWN BY: E.ESPINO

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

REVEGETATION NOTES

L3.1

PATH & FILENAME:
PLOTTING DATE & TIME:

NOTE:
ALL SITE PLANTINGS OF TREES AND SHRUBS SHALL BE ALLOWED TO REACH, AND BE MAINTAINED AT, MATURE HEIGHT; THE TOPPING OF TREES IS PROHIBITED. SHRUBS AND TREES SHALL BE PRUNED MINIMALLY AND ONLY TO SUPPORT THE OVERALL HEALTH OF THE PLANT.

County of Albemarle
Conservation Plan Checklist – To be placed on Landscape Plans
(Handbook, pp III-284-111-297 for complete specifications)

1. **The following items shall be shown on the plan:**
   - ☐ Trees to be saved;
   - ☐ Limits of clearing (outside dripline of trees to be saved);
   - ☐ Location and type of protective fencing;
   - ☐ Grade changes requiring tree wells or walls;
   - ☐ Proposed trenching or tunneling beyond the limits of clearing.
2. **Markings:**
   - ☐ All trees to be saved shall be marked with print or ribbon at a height clearly visible to equipment operators.
   - ☐ No grading shall begin until the tree marking has been inspected and approved by a County Inspector.
3. **Pre-Construction Conference:**
   - ☐ Tree preservation and protection measures shall be reviewed with the contractor on site.
4. **Equipment Operation and Storage:**
   - ☐ Heavy equipment, vehicular traffic and storage of construction materials including soil shall not be permitted within the driplines of trees to be saved.
5. **Soil Erosion and Stormwater Detention Devices:**
   - ☐ Such devices shall not adversely affect trees to be saved.
6. **Fires:**
   - ☐ Fires are not permitted within 100 feet of the dripline of trees to be saved.
7. **Toxic Materials:**
   - ☐ Toxic materials shall not be stored within 100 feet of the dripline of trees to be saved.
8. **Protective Fencing:**
   - ☐ Trees to be retained within 40 feet of a proposed building or grading activity shall be protected by fencing.
   - ☐ Fencing shall be in place and shall be inspected and approved by a County Inspector prior to grading or construction.
9. **Tree Wells:**
   - ☐ When the ground level must be raised within the dripline of a tree to be saved, a tree well shall be provided and a construction detail submitted for approval.
10. **Tree Walls:**
    - ☐ When the ground level must be lowered within the dripline a tree to be saved, a tree wall shall be provided; and a construction detail submitted for approval.
11. **Trenching and Tunneling:**
    - ☐ When trenching is required within the limits of clearing, it shall be done as far away from the trunks of trees as possible. Tunneling under a large tree shall be considered as an alternative when it is anticipated that necessary trenching will destroy feeder roots.
12. **Cleanup:**
    - ☐ Protective fencing shall be the last items removed during the final cleanup.
13. **Damaged Trees:**
    - ☐ Damaged trees shall be treated immediately by pruning, fertilization or other methods recommended by a tree specialist.

NOTE: IT IS THE DEVELOPER'S RESPONSIBILITY TO CONFER WITH THE CONTRACTOR ON TREE CONSERVATION REQUIREMENTS.

9/24/24
OWNER SIGNATURE **(DATE)**

CONTRACT PURCHASER SIGNATURE **(DATE)**

5/1/06 Page 1 of 1

SEE DRAWING L104, L402

SEE DRAWING L103, L402

SEE DRAWING L101, L400

SEE DRAWING L101, L400

MATCHLINE BB

SCALE: 1" = 40'-0"
0' 20' 40' 80'
GRAPHIC SCALE

NORTH

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
PLOTTING DATE & TIME: 10/1/2024 8:37:19 AM

QUINN EVANS

1840 WEST BROAD STREET
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QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
JOHN SYDNEY KNIGHT
Lic. No. 1046
10/04/2024
LANDSCAPE ARCHITECT

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LANDSCAPE DRAWINGS
KEY PLAN

L100

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR ALL VEHICULAR ELEMENTS INCLUDING BUT NOT LIMITED TO PAVEMENTS, CURBS, CURB RAMPS, CROSSWALKS, AND PAVEMENT MARKINGS.
2. UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS.
3. SITE LIGHTING IS SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS.
4. PROPOSED GRADING IS SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS.
5. SEE CIVIL DRAWINGS FOR TOP AND BOTTOM ELEVATIONS OF STAIRS, RAMPS, AND SITE WALLS UNLESS OTHERWISE NOTED.
6. WHERE APPLICABLE, SIDEWALK DIMENSIONS ARE MEASURED FROM BACK OF CURB.
7. INSTALL CONCRETE MOW STRIPS AT ALL LOCATIONS WHERE NEW BUILDING ABUTS TURF LAWN. SEE DETAIL B6, DRAWING L300.
7. SEE ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR SIGN TYPES AND DETAILS.

LEGEND AND ABBREVIATIONS

- CIP CONCRETE SIDEWALK, SEE DETAIL L1, DRAWING L300
- CIP HEAVY CONCRETE SIDEWALK, SEE DETAIL L1, DRAWING L300
- BRICK PAVEMENT, SEE DETAIL J1, DRAWING L300
- CONCRETE UNIT PAVEMENT, SEE DETAIL J1, DRAWING L300

P.C POINT OF CURVATURE

P.C.C POINT OF COMPOUND CURVATURE

SEE DRAWING L104 FOR ADDITIONAL INFORMATION

EXTERIOR SIGN TYPE 200.2, SEE ARCHITECTURAL DRAWINGS

EXTERIOR SIGN TYPE 200.3, SEE ARCHITECTURAL DRAWINGS

E9 L300 EV CHARGING STATION PAD SEE ELECTRICAL DRAWINGS FOR CHARGING STATIONS

MATCH EDGE OF EXISTING ROAD

END PAD BETWEEN 12TH AND 13TH PARKING SPACES AS SHOWN

E1 L300 (6) 6.5" RISERS CIP CONCRETE STAIRS WITH HANDRAILS

E1 L300 (17) 6.4" RISERS CIP CONCRETE STAIRS WITH HANDRAILS. ALIGN WITH EX. PARKING SPACE AS SHOWN.

E1 L300 (3) 6" RISERS CIP CONCRETE STAIRS WITH HANDRAILS

B6 L300 CONCRETE MOW STRIP

B6 L300 CONCRETE MOW STRIP

LOADING DOCK, SEE ARCHITECTURAL DRAWINGS FOR MATERIALS AND LAYOUT

SEE DRAWING L105 FOR ADDITIONAL INFORMATION

H1 L301 SEAT WALL - RETAINING

L1 L303 CONCRETE RUNNEL

MATCH CORNER OF BUILDING

MAKE SMOOTH TRANSITION FROM FLAT PROFILE TO 'V' PROFILE IN 4'-0" LENGTH AT BEGINNING OF BRICK RUNNEL

MECHANICAL YARD, SEE ARCHITECTURAL DRAWINGS FOR MATERIALS AND LAYOUT

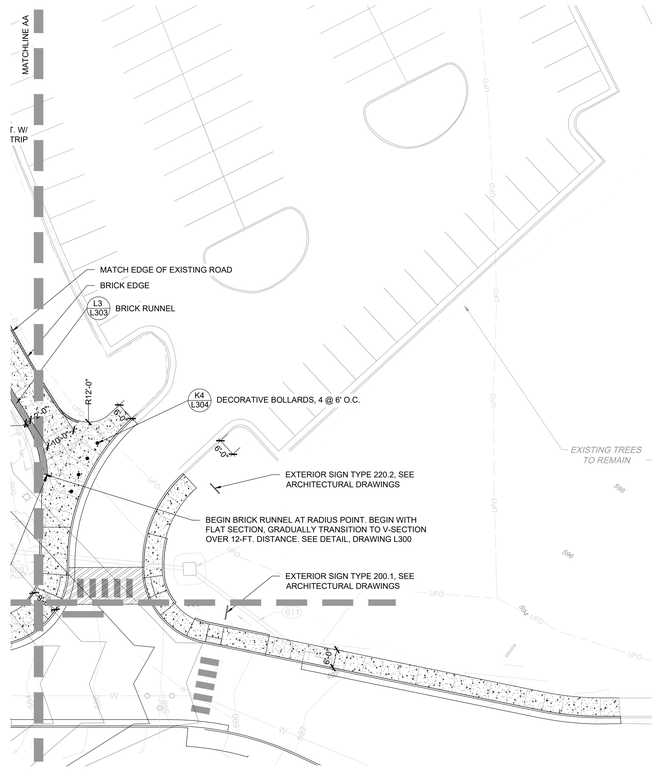
SEE CIVIL DRAWINGS FOR DRIVEWAY APRON

MATCHLINE AA

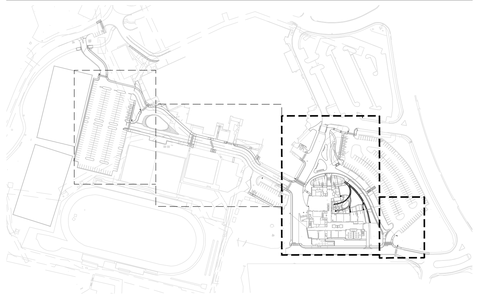
SCALE: 1" = 20'-0"

0' 10' 20' 40'
GRAPHIC SCALE

NORTH



KEY PLAN



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LAYOUT AND MATERIALS PLAN

L101

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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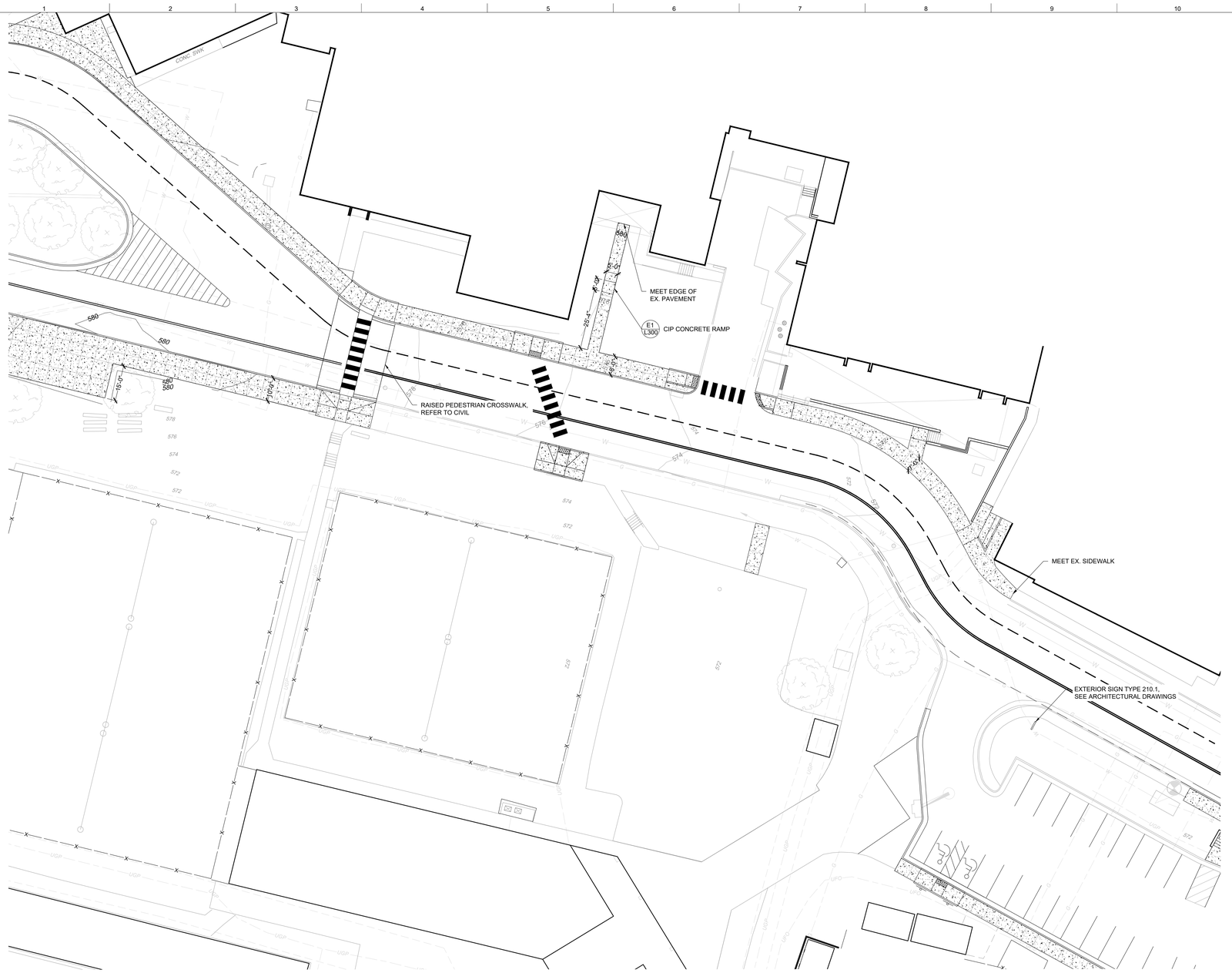
SONIC SWR
MEET EDGE OF EX. PAVEMENT
E1 L300
CIP CONCRETE RAMP
RAISED PEDESTRIAN CROSSWALK, REFER TO CIVIL
MEET EX. SIDEWALK
EXTERIOR SIGN TYPE 210.1, SEE ARCHITECTURAL DRAWINGS
580
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15'-0"
25'-4"
5'-0"
5'-0"
5'-0"
5'-0"
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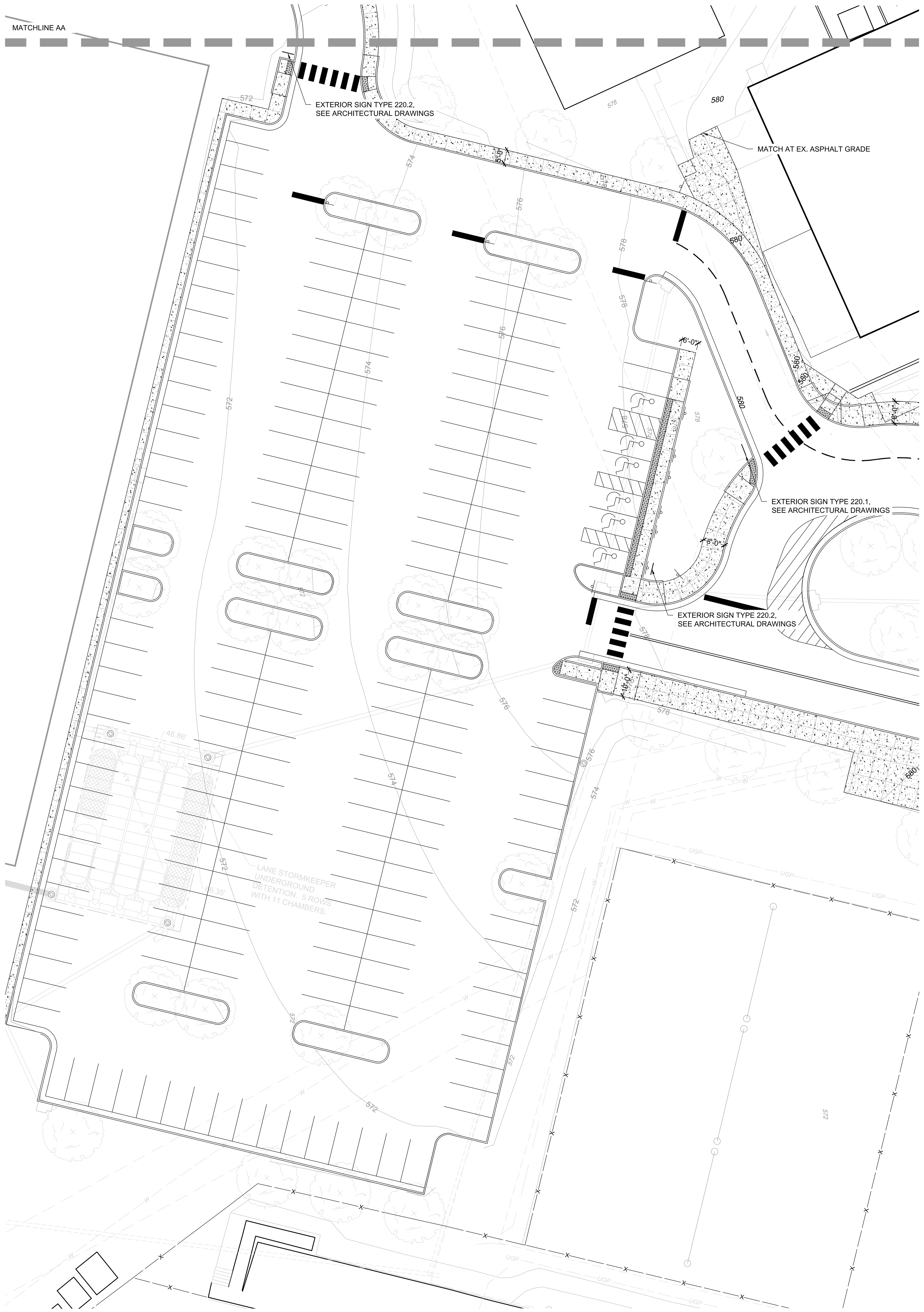

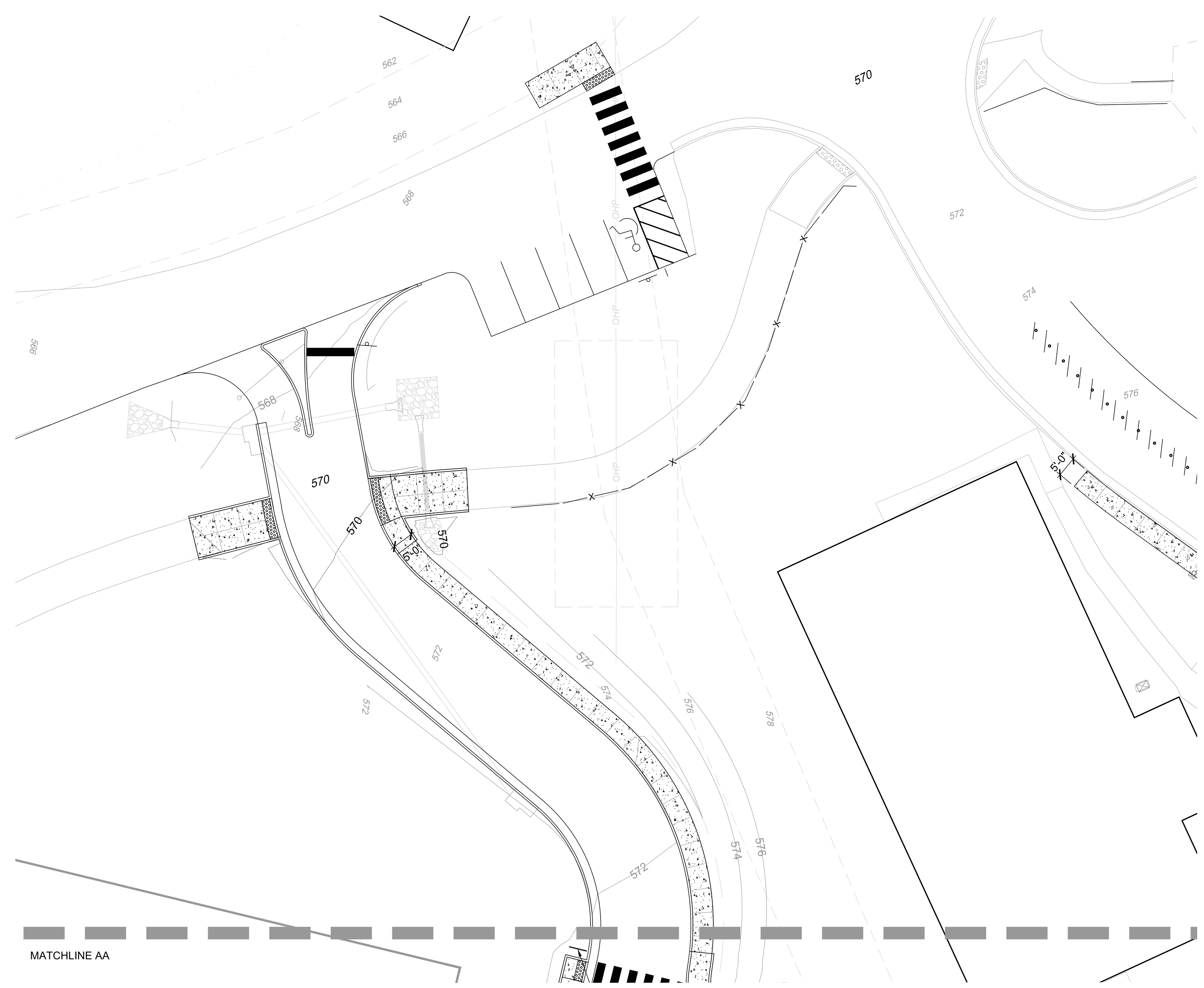

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7. SEE ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR SIGN TYPES AND DETAILS.

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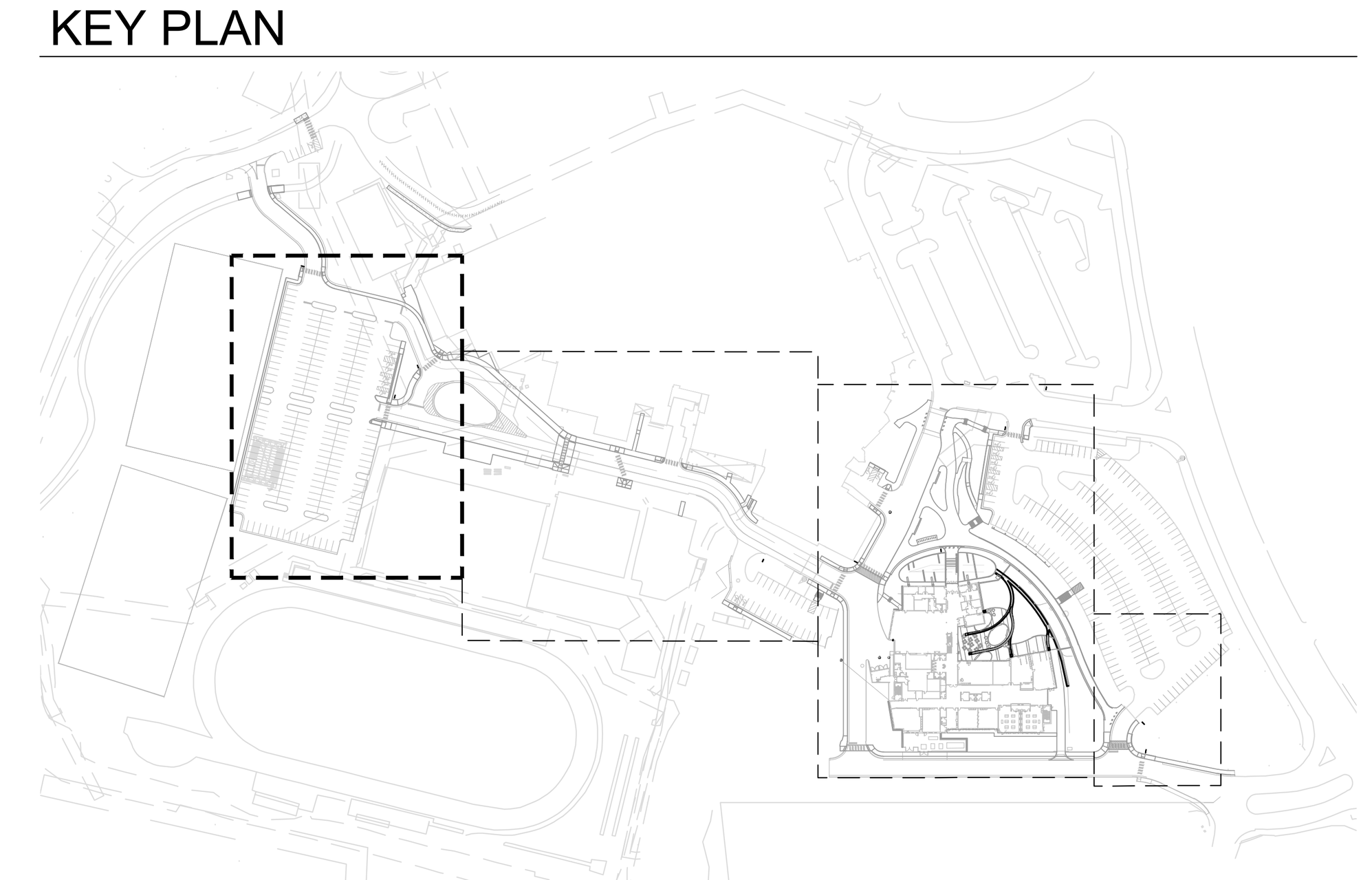
P.C.C POINT OF COMPOUND CURVATURE

KEY PLAN



SCALE: 1" = 20'-0"

0' 10' 20' 40'
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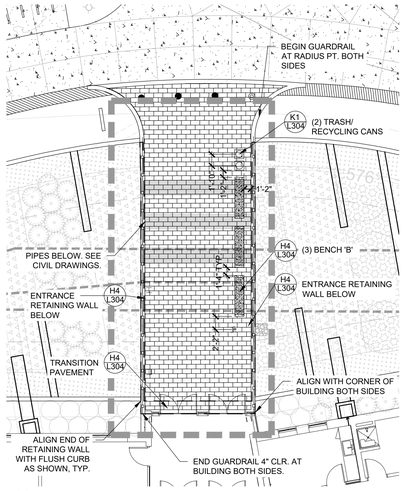
LAYOUT AND MATERIALS PLAN

L103



1 L104 ENTRANCE WALK DETAIL
SCALE 3/4" = 1'-0"

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR ALL VEHICULAR ELEMENTS INCLUDING BUT NOT LIMITED TO PAVEMENTS, CURBS, CURB RAMPS, CROSSWALKS, AND PAVEMENT MARKINGS.
2. UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS.
3. SITE LIGHTING IS SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS.
4. PROPOSED GRADING IS SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS.
5. SEE CIVIL DRAWINGS FOR TOP AND BOTTOM ELEVATIONS OF STAIRS, RAMPS, AND SITE WALLS UNLESS OTHERWISE NOTED.
6. WHERE APPLICABLE, SIDEWALK DIMENSIONS ARE MEASURED FROM BACK OF CURB.
7. INSTALL CONCRETE MOW STRIPS AT ALL LOCATIONS WHERE NEW BUILDING ABUTS TURF LAWN. SEE DETAIL B6, DRAWING L300.
7. SEE ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR SIGN TYPES AND DETAILS.

LEGEND AND ABBREVIATIONS

- CIP CONCRETE SIDEWALK, SEE DETAIL L1, DRAWING L300
- CIP HEAVY CONCRETE SIDEWALK, SEE DETAIL L1, DRAWING L300
- BRICK PAVEMENT, SEE DETAIL J1, DRAWING L300
- CONCRETE UNIT PAVEMENT, SEE DETAIL J1, DRAWING L300

P.C POINT OF CURVATURE

P.C.C POINT OF COMPOUND CURVATURE

ARC SCHEDULE

ARC	RADIUS POINT NORTHING	RADIUS POINT EASTING	RADIUS	ARC LENGTH
ARC 1	3914809.901800	11482939.931300	48'-4"	11'-9"
ARC 2	3914788.125300	11482973.511900	70'	41'-6"
ARC 3	3914772.406000	11482959.137200	103'	39'-9"
ARC 4	3914883.760100	11482895.317400	54'	51'-0"
ARC 5	3914788.125300	11482973.511900	76'-0"	45'-1"
ARC 6	3914910.541000	11482840.520600	85'	26'-2"
ARC 7	3914882.782100	11482954.191800	20'	15'-9"
ARC 8	3914830.417500	11482896.549600	41'	20'-7"
ARC 9	3914831.293800	11482902.579600	47'	10'-3"
ARC 10	3914814.058000	11482806.588700	43'	41'-5"
ARC 11	3914801.317000	11482968.299300	104'	15'-0"
ARC 12	3914629.327900	11482648.205300	259'	217'-7"
ARC 13	3914736.585800	11482766.283600	60'	37'-7"
ARC 14	3914642.969500	11482746.390200	156'	45'-5"
ARC 15	3914623.208000	11482725.113600	184'	35'-8"
ARC 16	3914670.612300	11482778.032500	113'	62'-10"
ARC 17	3914629.327900	11482648.205300	249'	162'-3"

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10/04/2024
LANDSCAPE ARCHITECT

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

PROJECT MANAGER: JSK
DRAWN BY: HR

QEA No.41911390

ARB - SECOND SUBMISSION 10/02/2024

LAYOUT AND MATERIALS PLAN ENLARGEMENT

L104

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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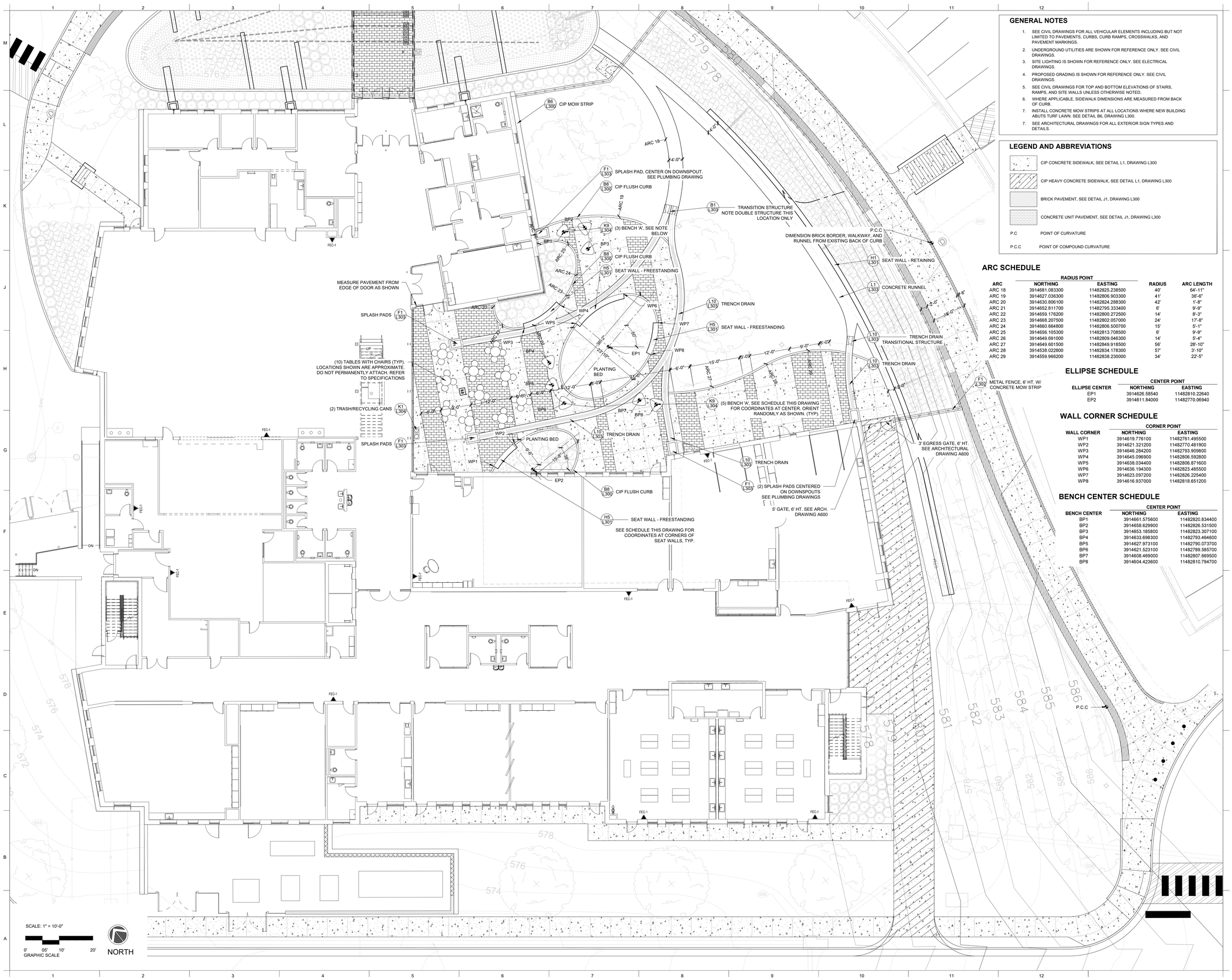

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LEGEND AND ABBREVIATIONS

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- CIP HEAVY CONCRETE SIDEWALK, SEE DETAIL L1, DRAWING L300
- BRICK PAVEMENT, SEE DETAIL J1, DRAWING L300
- CONCRETE UNIT PAVEMENT, SEE DETAIL J1, DRAWING L300
- P.C — POINT OF CURVATURE
- P.C.C — POINT OF COMPOUND CURVATURE

ARC SCHEDULE

ARC	RADIUS POINT NORTHING	RADIUS POINT EASTING	RADIUS	ARC LENGTH
ARC 18	3914681.083300	11482825.238500	40'	64'-11"
ARC 19	3914627.036300	11482806.903300	41'	36'-6"
ARC 20	3914630.806100	11482824.288300	42'	1'-8"
ARC 21	3914652.811700	11482795.333400	6'	9'-9"
ARC 22	3914659.176200	11482800.272500	14'	8'-3"
ARC 23	3914668.207500	11482802.057000	24'	17'-8"
ARC 24	3914660.664800	11482806.500700	15'	5'-1"
ARC 25	3914656.105300	11482813.708500	6'	9'-9"
ARC 26	3914649.691000	11482809.046300	14'	5'-4"
ARC 27	3914649.601500	11482849.918500	56'	28'-10"
ARC 28	3914538.022800	11482834.178300	57'	3'-10"
ARC 29	3914559.966200	11482838.230000	34'	22'-5"

ELLIPSE SCHEDULE

ELLIPSE CENTER	CENTER POINT NORTHING	CENTER POINT EASTING
EP1	3914626.58540	11482810.22640
EP2	3914611.84000	11482770.06940

WALL CORNER SCHEDULE

WALL CORNER	CORNER POINT NORTHING	CORNER POINT EASTING
WP1	3914619.776100	11482761.495500
WP2	3914621.321200	11482770.481900
WP3	3914646.284200	11482793.909800
WP4	3914645.096900	11482806.592800
WP5	3914638.034400	11482806.871600
WP6	3914636.194300	11482823.485500
WP7	3914623.097200	11482826.225400
WP8	3914616.937000	11482818.651200

BENCH CENTER SCHEDULE

BENCH CENTER	CENTER POINT NORTHING	CENTER POINT EASTING
BP1	3914661.575600	11482820.834400
BP2	3914658.629900	11482826.531500
BP3	3914653.185800	11482823.307100
BP4	3914633.698300	11482793.464600
BP5	3914627.973100	11482790.073700
BP6	3914621.523100	11482789.585700
BP7	3914608.469000	11482807.669500
BP8	3914604.423600	11482810.794700

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LAYOUT AND MATERIALS PLAN ENLARGEMENT

L105

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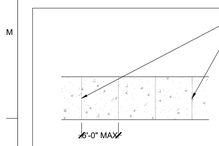
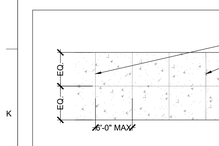


L1 L106 TYPICAL SCORING PATTERN, SIDEWALKS UP TO 8'-0" WIDTH

SCALE 1" = 10'-0"



K1 L106 TYPICAL SCORING PATTERN, SIDEWALKS OVER 8'-0" WIDTH

SCALE 1" = 10'-0"

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- BRICK PAVEMENT, SEE DETAIL J1, DRAWING L300
- CONCRETE UNIT PAVEMENT, SEE DETAIL J1, DRAWING L300

P.C POINT OF CURVATURE

P.C.C POINT OF COMPOUND CURVATURE

SCALE: 1" = 20'-0"

0' 10' 20' 40'
GRAPHIC SCALE

NORTH

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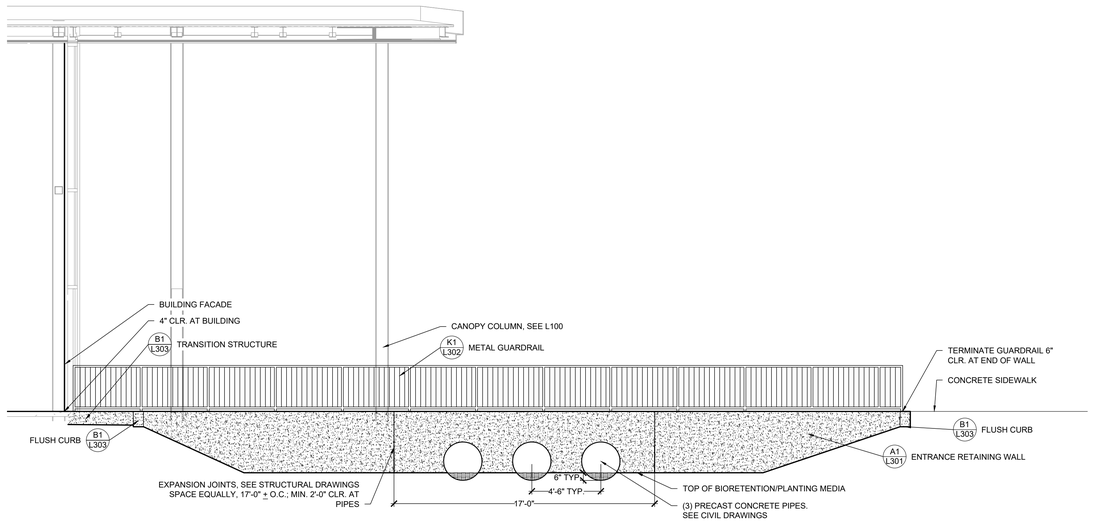
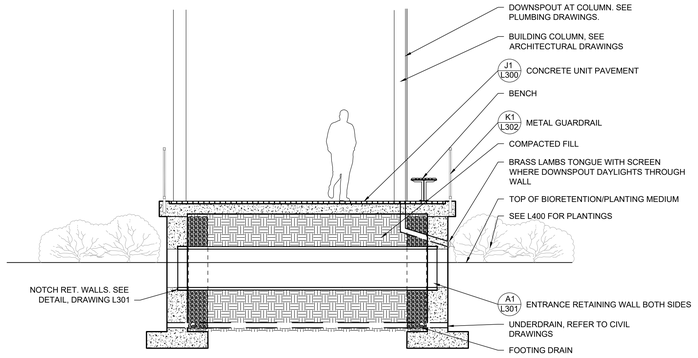
PAVEMENT SCORING PLAN

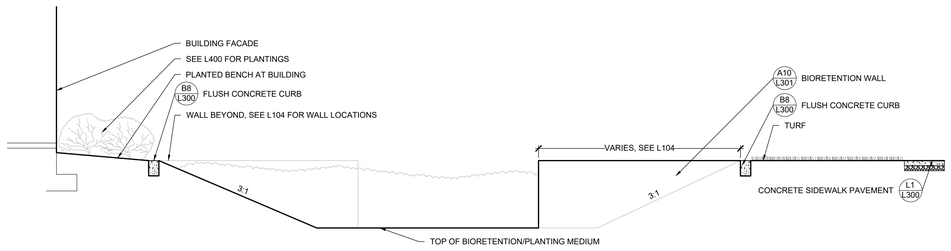
L106



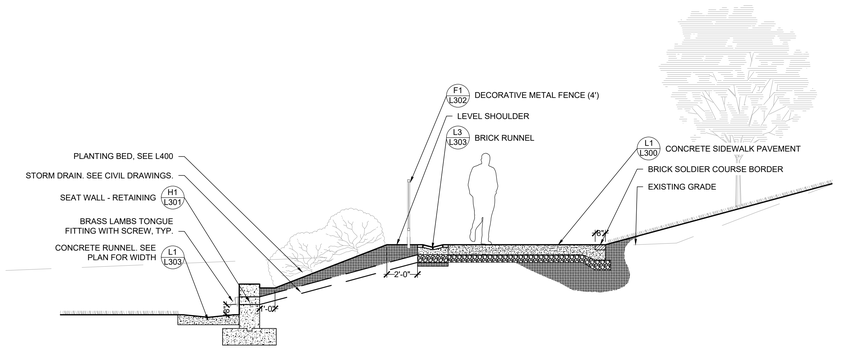
J1 L200 ELEVATION AT ENTRANCE WALKWAY
SCALE 1/4" = 1'-0"



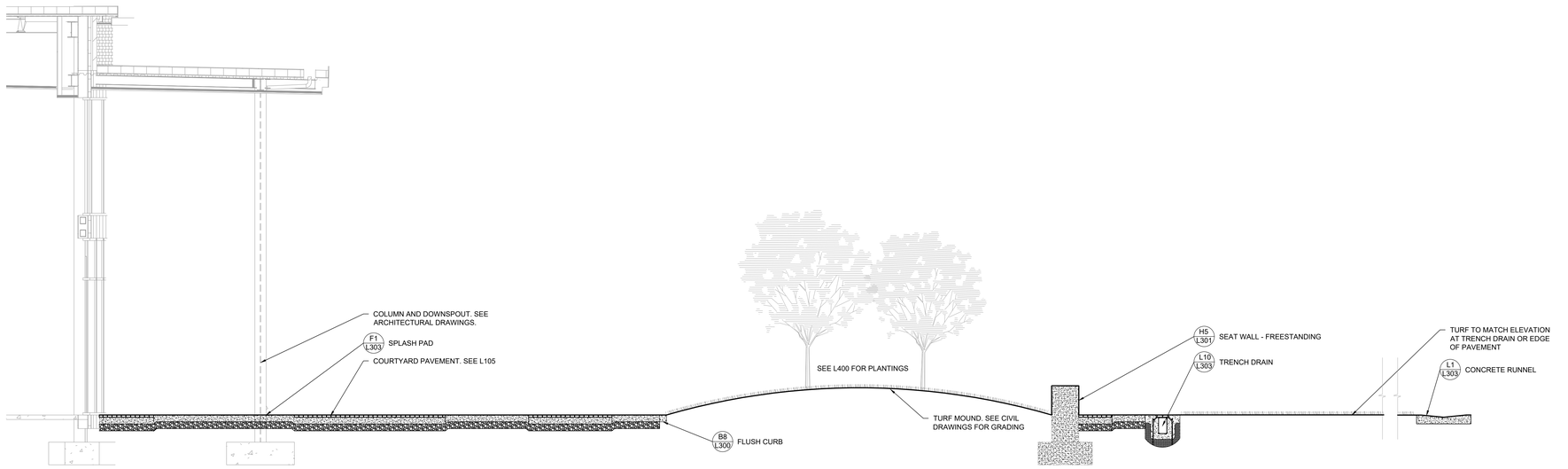
J7 L200 SECTION AT ENTRANCE WALKWAY
SCALE 1/4" = 1'-0"



E1 L200 SECTION AT BIORETENTION BASIN
SCALE 1/4" = 1'-0"



E7 L200 SITE SECTION
SCALE 1/4" = 1'-0"



A1 L200 SECTION AT COURTYARD
SCALE 1/4" = 1'-0"

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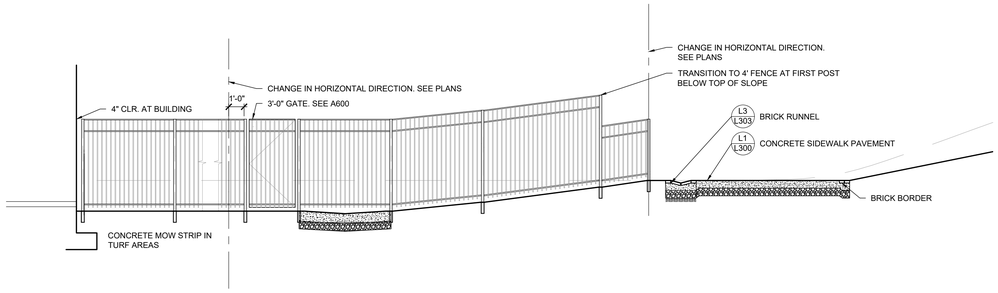
10/02/2024

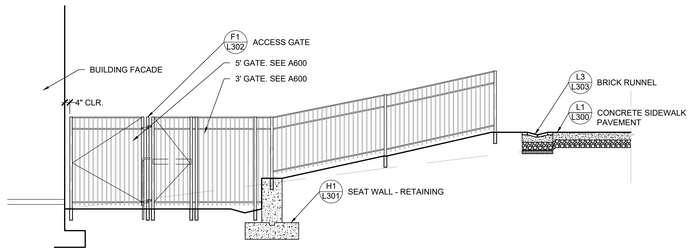
LANDSCAPE SECTIONS

L200



K1 L201 SECTION AT COURTYARD FENCE, NORTH

SCALE 1/4" = 1'-0"



K7 L201 SECTION AT COURTYARD FENCE, SOUTH

SCALE 1/4" = 1'-0"

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LANDSCAPE SECTIONS

L201

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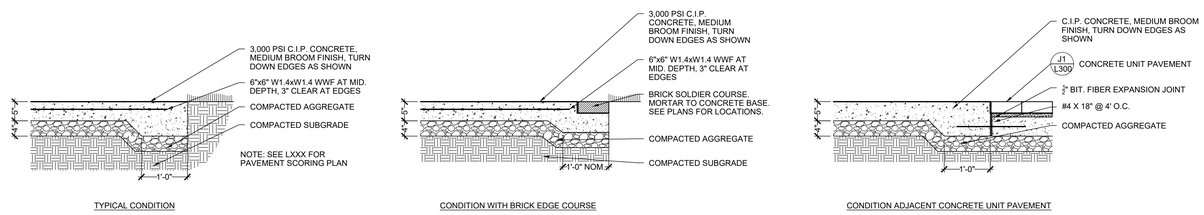
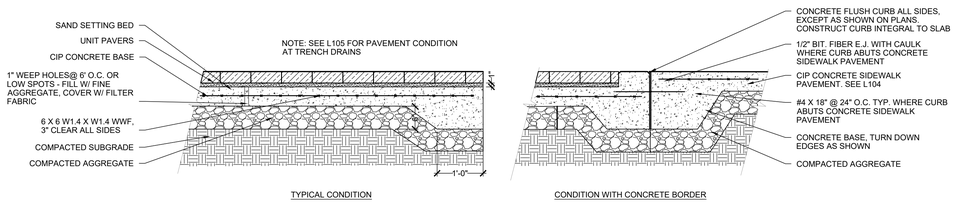


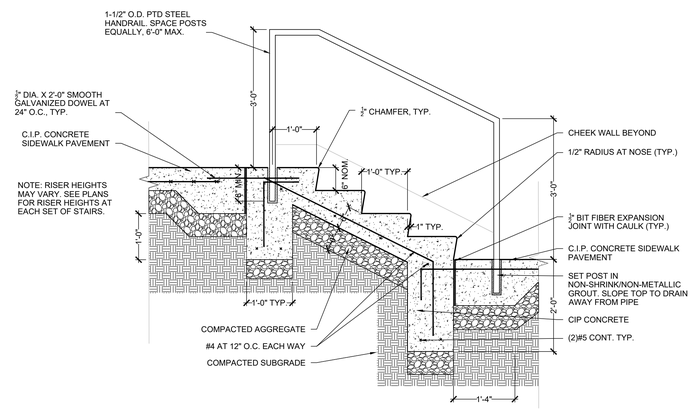
L1 L300 CIP CONCRETE SIDEWALK

SCALE 3/4" = 1'-0"



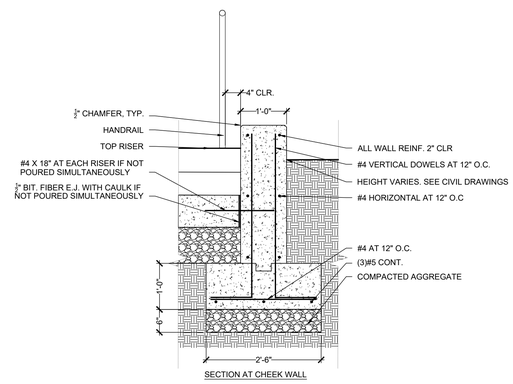
J1 L300 CONCRETE UNIT PAVEMENT

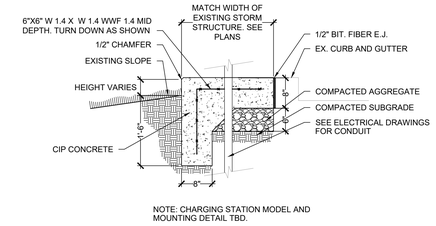
SCALE 3/4" = 1'-0"



E1 L300 CIP CONCRETE STAIRS

SCALE 3/4" = 1'-0"

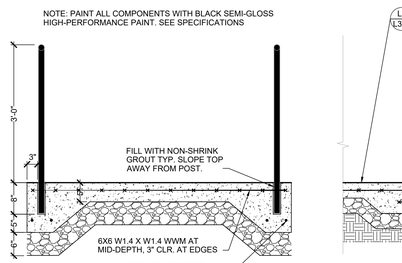


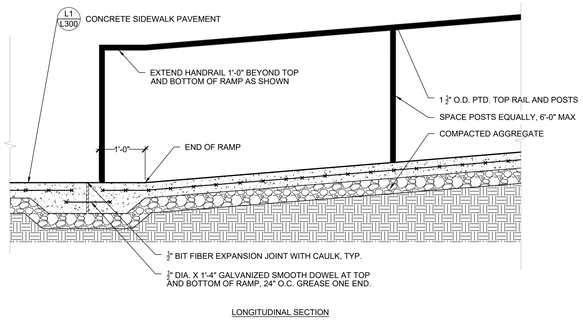


NOTE: CHARGING STATION MODEL AND MOUNTING DETAIL TBD.

E9 L300 E.V. CHARGING STATION PAD

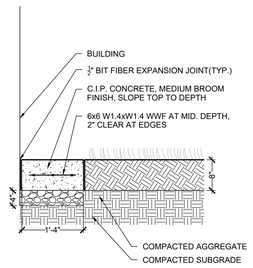
SCALE 3/4" = 1'-0"





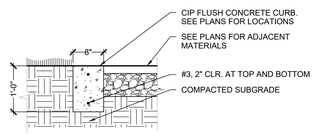
B1 L300 CIP CONCRETE RAMP

SCALE 3/4" = 1'-0"



B6 L300 CIP MOW STRIP

SCALE 3/4" = 1'-0"



B8 L300 CIP FLUSH CURB

SCALE 3/4" = 1'-0"

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LANDSCAPE DETAILS

L300

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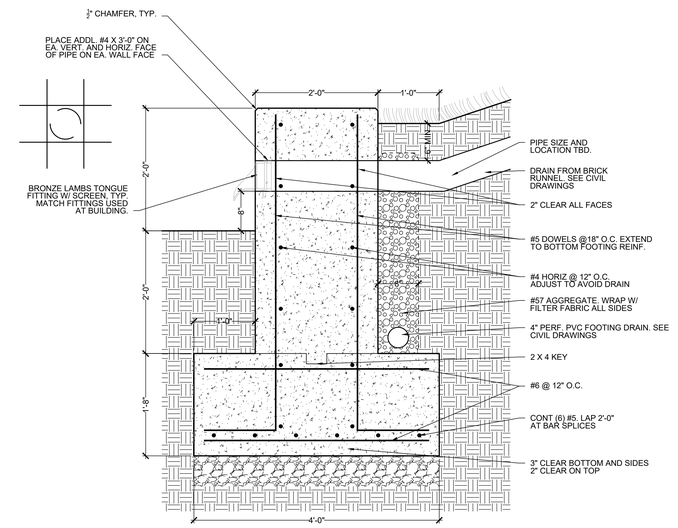
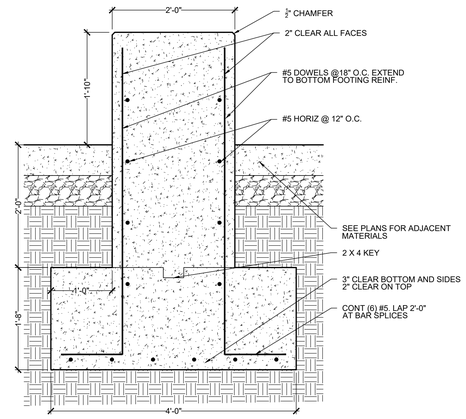
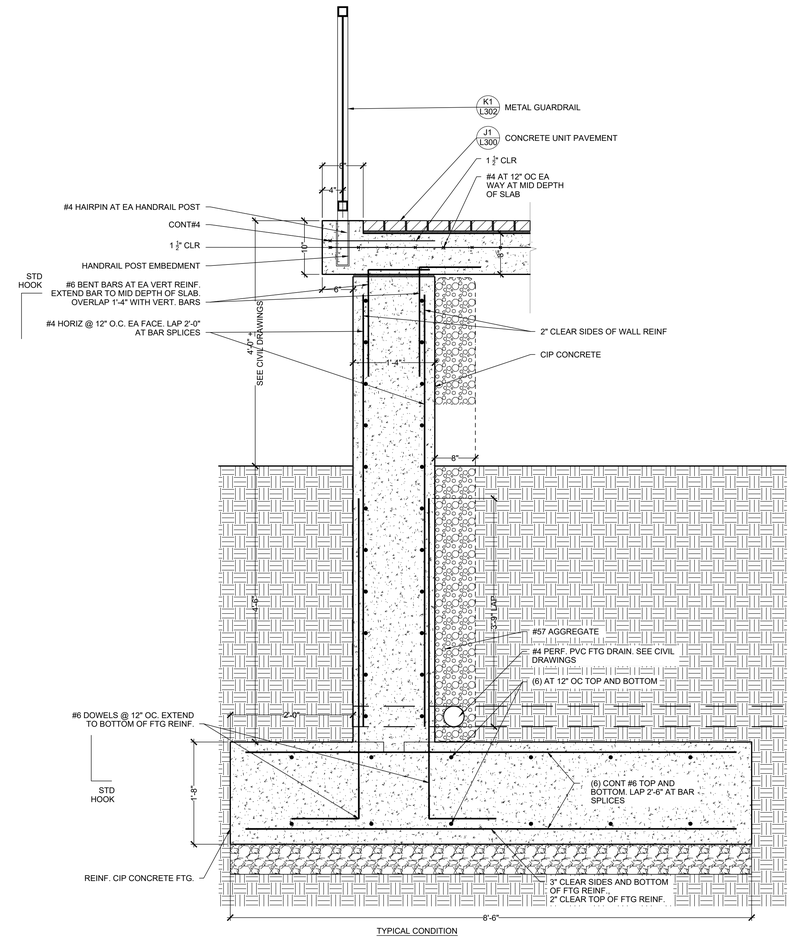


H1 L301 SEAT WALL - RETAINING
SCALE 1" = 1'-0"

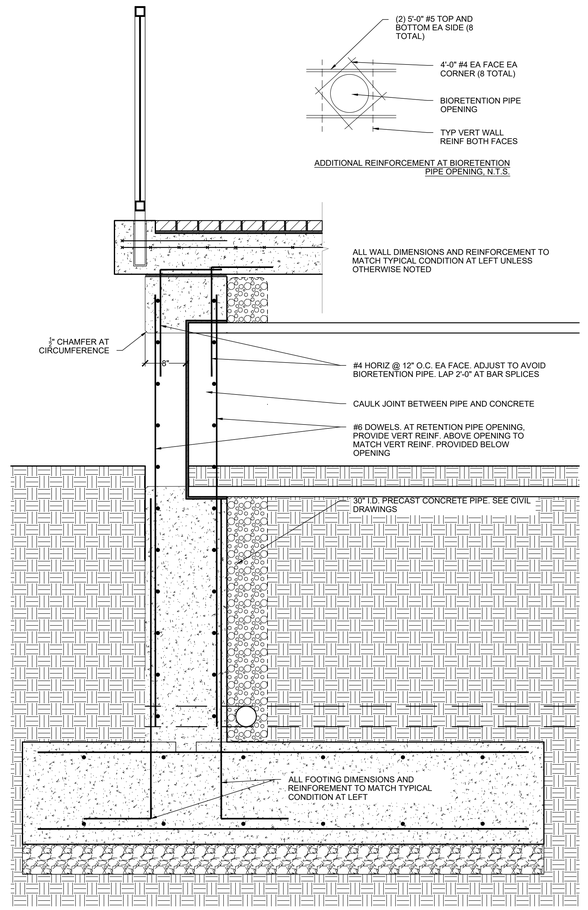


H5 L301 SEAT WALL - FREESTANDING
SCALE 1" = 1'-0"



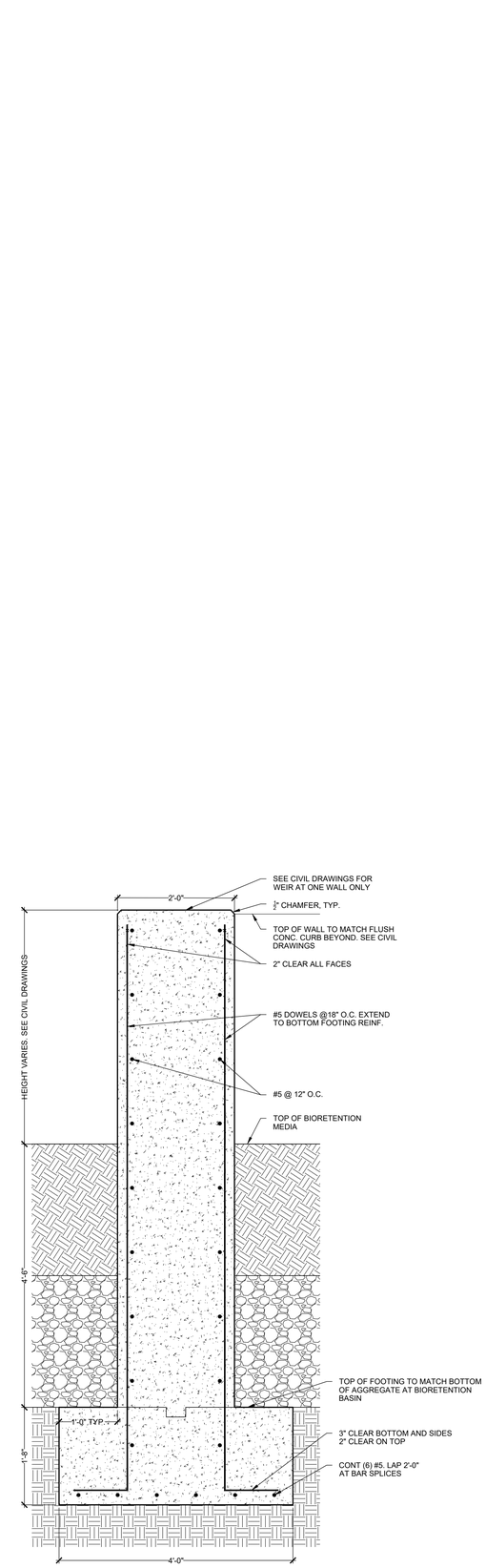
TYPICAL CONDITION

A1 L301 ENTRANCE RETAINING WALL
SCALE 1" = 1'-0"



CONDITION AT CONCRETE PIPES

ADDITIONAL REINFORCEMENT AT BIORETENTION PIPE OPENING, N.T.S.



A10 L301 BIORETENTION WALL
SCALE 1" = 1'-0"

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
JOHN SYDNEY KNIGHT
Lic. No. 1046
10/04/2024
LANDSCAPE ARCHITECT

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

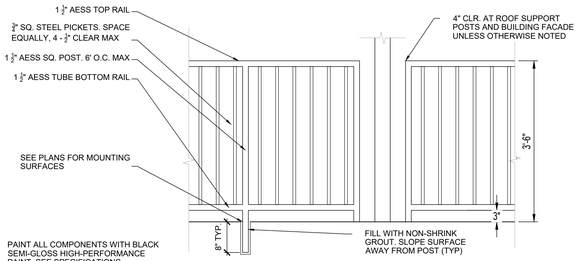
PROJECT MANAGER: JSK
DRAWN BY: HR

QEA No.41911390

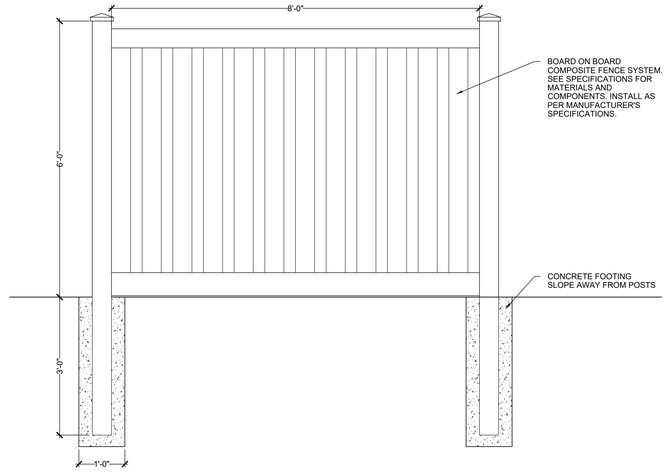
ARB - SECOND SUBMISSION
10/02/2024

LANDSCAPE DETAILS

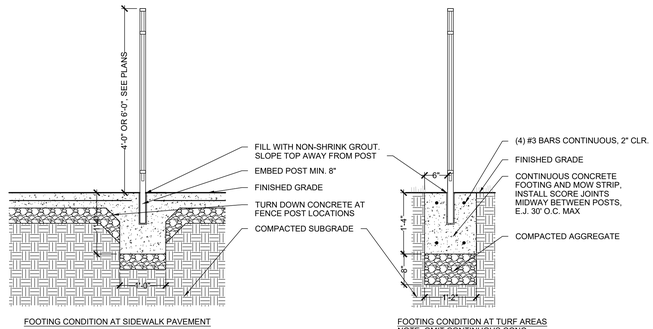
L301

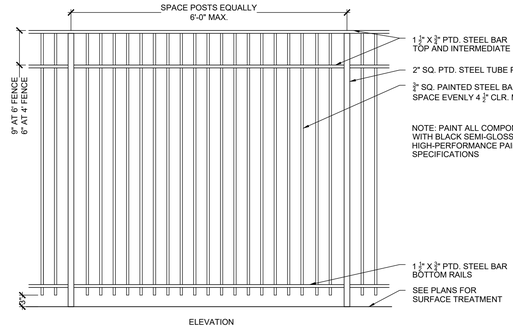


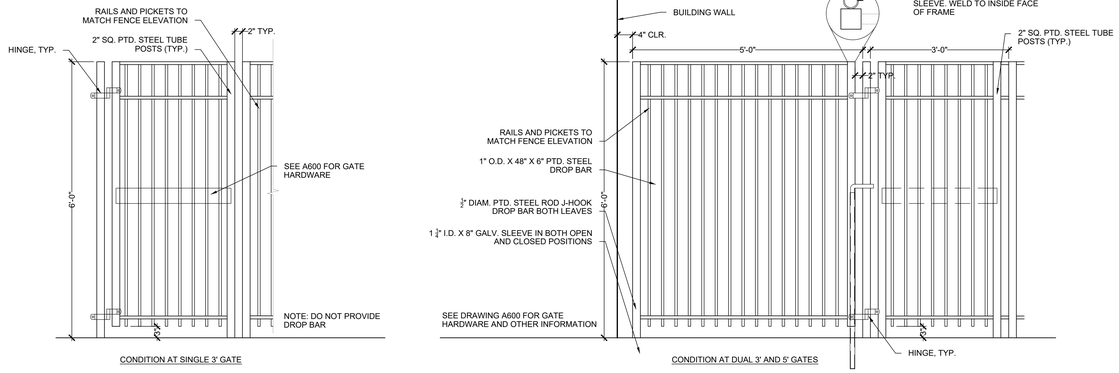
K1 L302 METAL GUARDRAIL
SCALE 3/4" = 1'-0"



J4 L302 PRIVACY FENCE
SCALE 3/4" = 1'-0"







C1 L302 METAL FENCE AND GATE
SCALE 3/4" = 1'-0"

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ARB - SECOND SUBMISSION
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LANDSCAPE DETAILS

L302

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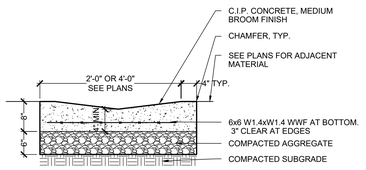
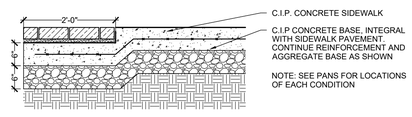
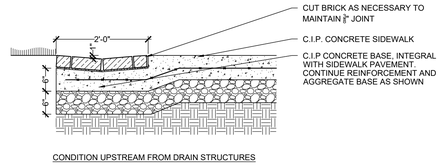


L1 / L303 CONCRETE RUNNEL

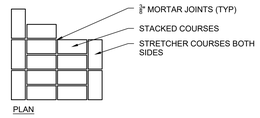
SCALE 3/4" = 1'-0"



CONDITION DOWNSTREAM FROM DRAIN STRUCTURES



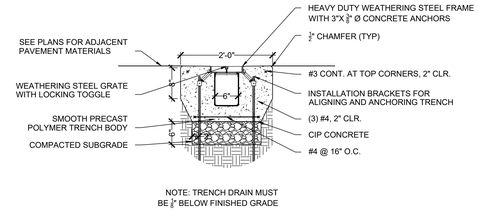
CONDITION UPSTREAM FROM DRAIN STRUCTURES



PLAN

L3 / L303 BRICK RUNNEL

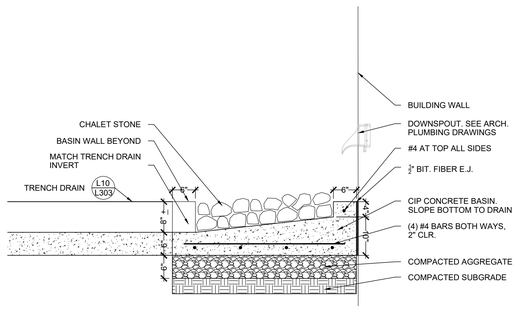
SCALE 3/4" = 1'-0"

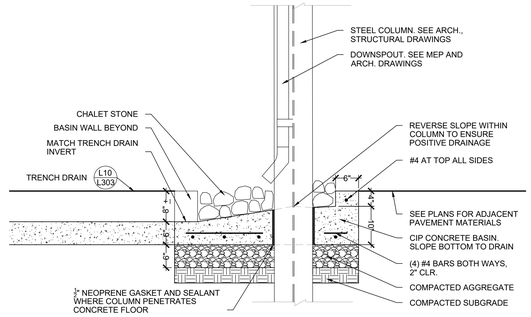


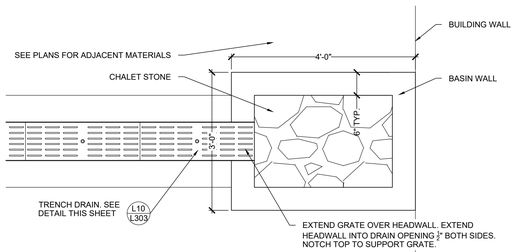
NOTE: TRENCH DRAIN MUST BE ¼" BELOW FINISHED GRADE

L10 / L303 TRENCH DRAIN

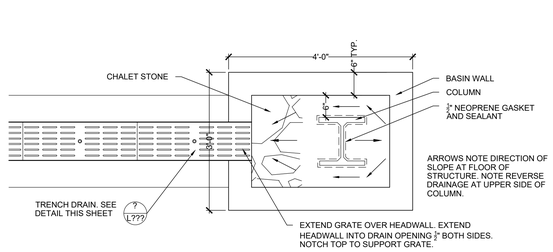
SCALE 3/4" = 1'-0"







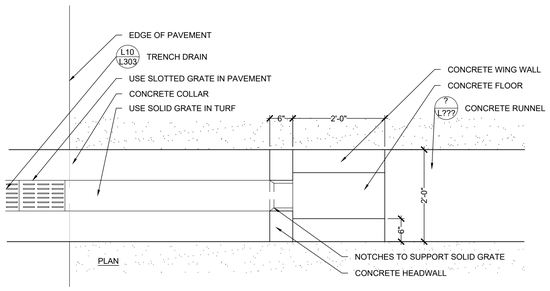
CONDITION AT WALL DRAINS



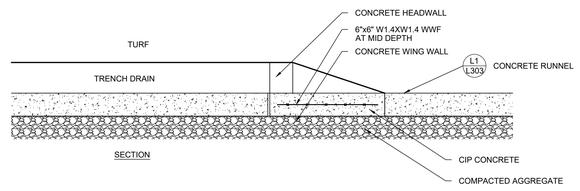
CONDITION AT ROOF COLUMNS

F1 / L303 SPLASH PAD

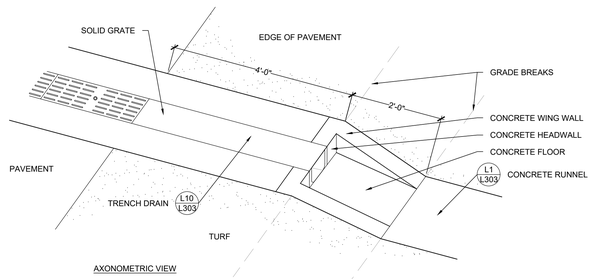
SCALE 3/4" = 1'-0"



PLAN



SECTION



AXONOMETRIC VIEW

B1 / L303 TRANSITION STRUCTURE

SCALE 3/4" = 1'-0"

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10/04/2024
LANDSCAPE ARCHITECT

Albemarle County Public Schools

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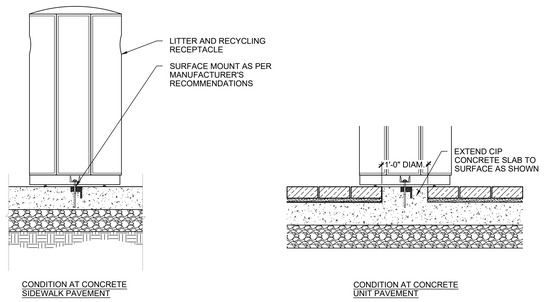
DRAWN BY: HR

QEA No.41911390

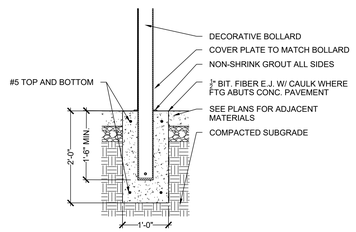
ARB - SECOND SUBMISSION
10/02/2024

LANDSCAPE DETAILS

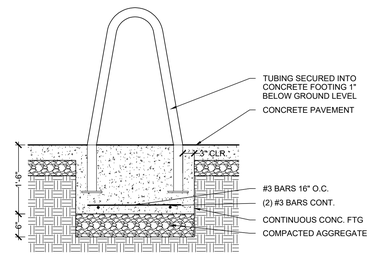
L303



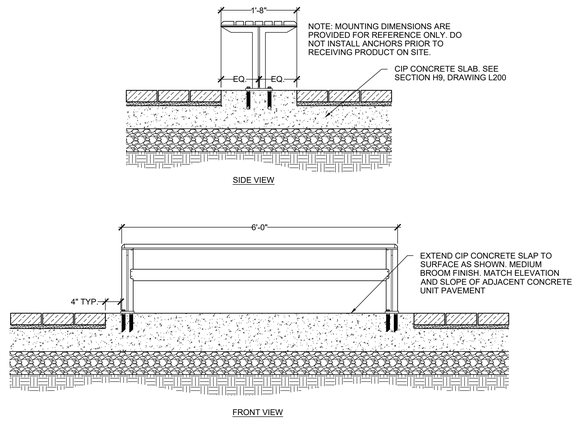
K1 L304 TRASH/RECYCLING CAN
SCALE 3/4" = 1'-0"



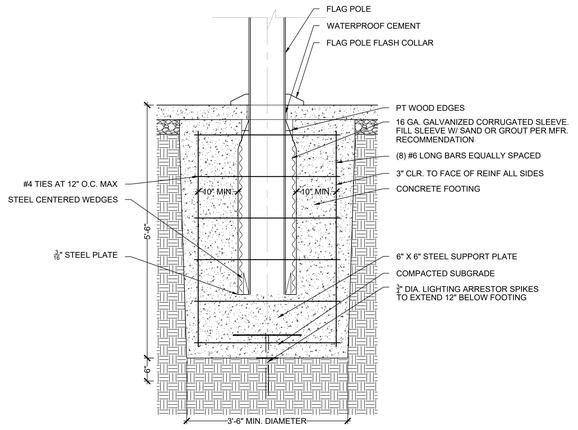
K4 L304 DECORATIVE BOLLARD
SCALE 3/4" = 1'-0"



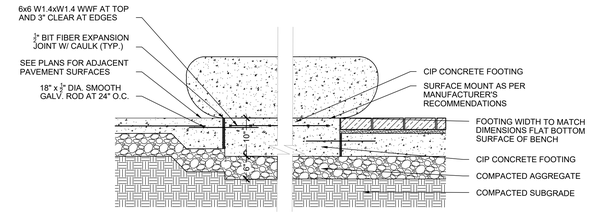
K7 L304 BIKE RACK
SCALE 3/4" = 1'-0"



K9 L304 BENCH 'A'
SCALE 3/4" = 1'-0"



F1 L304 FLAG POLE
SCALE 3/4" = 1'-0"



H4 L304 BENCH 'B'
SCALE 3/4" = 1'-0"

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LANDSCAPE DETAILS

L304

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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GENERAL NOTES

1. SEE PLANTING SCHEDULE, DRAWING L403
2. SEE CIVIL DRAWINGS FOR EXISTING CONDITIONS, TREE PROTECTION, AND SITE DEMOLITION
3. ALL LAWN AREAS SHALL RECEIVE MIN. 12" TOPSOIL AND TURF-TYPE GRASS SEED PER SPECIFICATIONS. LAWN AREAS ARE DEFINED AS ANY DISTURBED AREAS WITHIN LIMITS OF WORK NOT DESIGNATED FOR PAVEMENT OR OTHER IMPROVEMENTS.
4. ALL PLANTING BEDS SHALL RECEIVE MIN. 18" PLANTING SOIL UNLESS OTHERWISE NOTED.

2 AMERICAN ELM
4 BLACK GUM
3 SHUMARD OAK
4 SWAMP WHITE OAK
2 WHITE OAK
1 BASSWOOD
BIORETENTION BASIN
3 SWEETBAY MAGNOLIA
7 LONDON PLANETREE, 40' O.C.
2 WILLOW OAK
2 BLACK GUM
6 RED OAK
2 FLOWERING DOGWOOD
SEE SHEET L401 FOR SHRUBS, PERENNIALS, AND GRASSES IN THIS AREA
2 FLOWERING DOGWOOD
3 WILLOW OAK, 40' O.C.
1 LONDON PLANETREE
4 TULIP POPLAR
45 VIRGINIA SWEETSPIRE, 3' O.C.
2 WHITE OAK
3 WILLOW OAK, 40' O.C.
10 BASSWOOD, 40' O.C.
10" DEC
8" RED OAK

SCALE: 1" = 20'-0"
0' 10' 20' 40'
GRAPHIC SCALE
NORTH

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ARB - SECOND SUBMISSION
10/02/2024

PLANTING PLAN

L400

GENERAL NOTES

1. SEE PLANTING SCHEDULE, DRAWING L403
2. SEE CIVIL DRAWINGS FOR EXISTING CONDITIONS, TREE PROTECTION, AND SITE DEMOLITION
3. ALL LAWN AREAS SHALL RECEIVE MIN. 12" TOPSOIL AND TURF-TYPE GRASS SEED PER SPECIFICATIONS. LAWN AREAS ARE DEFINED AS ANY DISTURBED AREAS WITHIN LIMITS OF WORK NOT DESIGNATED FOR PAVEMENT OR OTHER IMPROVEMENTS.
4. ALL PLANTING BEDS SHALL RECEIVE MIN. 18" PLANTING SOIL UNLESS OTHERWISE NOTED.

105 MONARDA, 18" O.C.
30 VIRGINIA SWEETSPIRE, 3' O.C.
195 SHENANDOAH SWICTHGRASS, 18" O.C.
88 BLUE FLAG IRIS, 18" O.C.
134 SHENANDOAH SWICTH GRASS, 18" O.C.
94 BLUE FLAG IRIS, 18" O.C.
221 GRAY'S SEDGE, 18" O.C.
9 VIRGINIA SWEETSPIRE, 3' O.C.
1,868 BUFFALO GRASS, 9" O.C.
31 REDOSIER DOGWOOD, 3' O.C.
65 SWAMP MILKWEED, 18" O.C.
62 BLUE FLAG IRIS, 18" O.C.
BIORETENTION BASIN
7 WINTERBERRY HOLLY (M), 3' O.C.
5 VIRGINIA SWEETSPIRE, 3' O.C.
6 VIRGINIA SWEETSPIRE, 3' O.C.
13 WINTERBERRY HOLLY (F), 3' O.C.
10 WINTERBERRY HOLLY (F), 3' O.C.
6 WINTERBERRY HOLLY (M), 3' O.C.
13 VIRGINIA SWEETSPIRE, 3' O.C.
2 VIRGINIA SWEETSPIRE, 3' O.C.
6 WINTERBERRY HOLLY (F), 3' O.C.
6 VIRGINIA SWEETSPIRE, 3' O.C.
13 SUMMERSWEET, 3' O.C.
14 NORTHERN SEA OATS, 18" O.C.
179 REDOSIER DOGWOOD , 3' O.C.
40 REDOSIER DOGWOOD, 3' O.C.
17 VIRGINIA SWEETSPIRE, 3' O.C.
5 VIRGINIA SWEETSPIRE, 3' O.C.
12 SUMMERSWEET, 3' O.C.
15 NORTHERN SEA OATS, 18" O.C.
8 VIRGINIA SWEETSPIRE, 3' O.C.
14 VIRGINIA SWEETSPIRE, 3' O.C.
FEC-1
UP
DN
SAN
UGP
OHP
SCALE: 1" = 10'-0"
0' 05' 10' 20'
GRAPHIC SCALE
NORTH

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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ARB - SECOND SUBMISSION
10/02/2024

PLANTING PLAN ENLARGEMENT

L401

GENERAL NOTES

1. SEE PLANTING SCHEDULE, DRAWING L403
2. SEE CIVIL DRAWINGS FOR EXISTING CONDITIONS, TREE PROTECTION, AND SITE DEMOLITION
3. ALL LAWN AREAS SHALL RECEIVE MIN. 12" TOPSOIL AND TURF-TYPE GRASS SEED PER SPECIFICATIONS. LAWN AREAS ARE DEFINED AS ANY DISTURBED AREAS WITHIN LIMITS OF WORK NOT DESIGNATED FOR PAVEMENT OR OTHER IMPROVEMENTS.
4. ALL PLANTING BEDS SHALL RECEIVE MIN. 18" PLANTING SOIL UNLESS OTHERWISE NOTED.

3 WILLOW OAK
4 LONDON PLANETREE
1 WILLOW OAK
6 SHUMARD OAK
LIGHT POLE
10 LONDON PLANETREE
5 RED OAK
1 LONDON PLANETREE
3 LONDON PLANETREE
4 WILLOW OAK
1 BASSWOOD
ACADIC STAIR
6" DEC.
UGP
SCALE: 1" = 10'-0"
0' 2.5' 5' 10'
GRAPHIC SCALE
NORTH

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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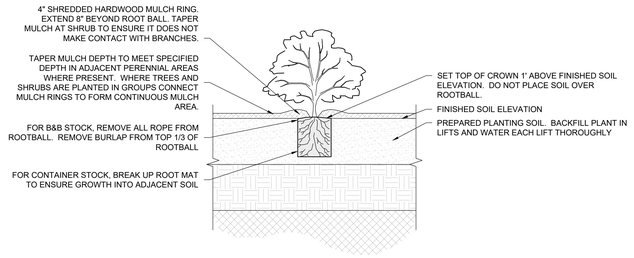
PLANTING PLAN ENLARGEMENT

L402

NOTES:

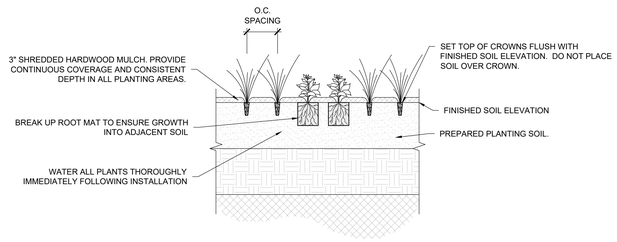
1. LOCATE ALL SHRUBS PER PLAN.
2. DO NOT PRUNE UNLESS DIRECTED TO DO SO BY LANDSCAPE ARCHITECT.



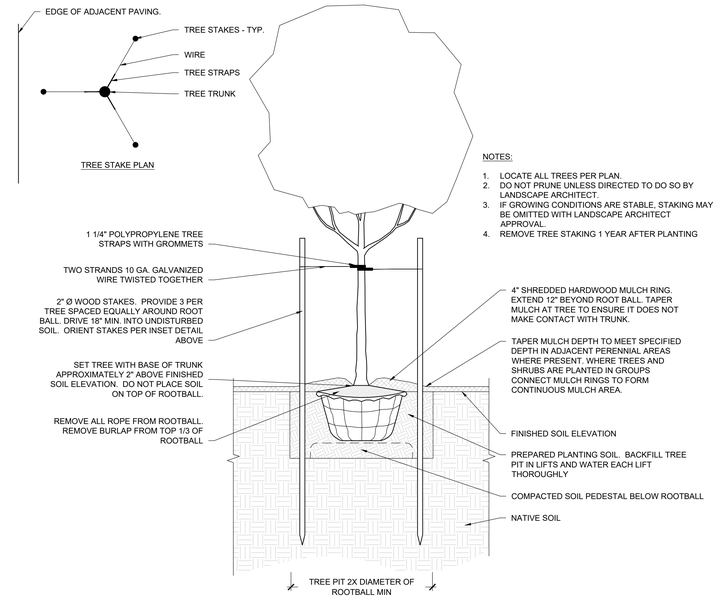
1 L400 SHRUB PLANTING
NOT TO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL HERBACEOUS, SEDGE, GROUNDCOVER AND OTHER PERENNIAL SPECIES SHOWN ON THE PLAN.
2. LOCATE ALL PLANTS PER PLAN.
4. FOR SEDGE AND GROUNDCOVER PLANTINGS WHERE INDIVIDUAL PLANTS ARE NOT SHOWN ON THE PLAN, SPACE PLANTS EQUIDISTANT IN A STAGGERED / TRIANGULAR PATTERN.
5. REFER TO PLANT SCHEDULE FOR TYPICAL ON CENTER (O.C.) SPACING.
6. SEE CIVIL DRAWINGS FOR PLANTING MEDIUM IN BIORETENTION BASIN



2 L400 HERBACEOUS PLANTING
NOT TO SCALE



NOTES:

1. LOCATE ALL TREES PER PLAN.
2. DO NOT PRUNE UNLESS DIRECTED TO DO SO BY LANDSCAPE ARCHITECT.
3. IF GROWING CONDITIONS ARE STABLE, STAKING MAY BE OMITTED WITH LANDSCAPE ARCHITECT APPROVAL.
4. REMOVE TREE STAKING 1 YEAR AFTER PLANTING

3 L400 TREE PLANTING
NOT TO SCALE

ALBEMARLE COUNTY LANDSCAPE REQUIREMENTS

LANDSCAPING ALONG INTERIOR ROADS
*PER THE ENTRANCE CORRIDOR REQUIREMENTS OF THE ALBEMARLE ARB DESIGN GUIDELINES

REQUIREMENT	
1 LG TREE PER 40 LF	

INTERIOR PARKING LOT LANDSCAPE AREA REQUIREMENTS
*PER SEC. 32.7.9.6 OF THE ALBEMARLE COUNTY CODE

REQUIREMENT	PARKING LOT AREA	CALCULATIONS	REQUIRED	PROVIDED
5% GROSS PARKING AREA	67,000 (NEW PARKING LOT)	67,000 X 0.05 = 3,350	3,350	4,025

INTERIOR PARKING LOT LANDSCAPE AREA REQUIREMENTS
*PER SEC. 32.7.9.6 OF THE ALBEMARLE COUNTY CODE

REQUIREMENT	PARKING LOT SPACES	CALCULATIONS	REQUIRED	PROVIDED
1 MED-LG SHADE TREE PER 10 PARKING SPACES	193 (NEW PARKING LOT)	193 / 10 = 19.3	20	25

TREE CANOPY COVER
*PER SEC. 32.7.9.8 OF THE ALBEMARLE COUNTY CODE

REQUIREMENT	SITE AREA	CALCULATIONS	REQUIRED	CALCULATIONS (NEW TREES)	PROVIDED
10% CANOPY COVER	402,000 SF (9.22 AC)	406,000/0.10 = 40,600 SF	40,600 SF	SEE PLANT SCHEDULE FOR CALCS	35,778 SF NEW
CREDIT FOR EX. TREES			20 YR. CANOPY x 1.25	SEE PLANT SCHEDULE FOR CALCS	14,106 SF EXISTING
					49,884 SF TOTAL

PLANT SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	PLANT SIZE	ROOT	PROJECTED TREE COVER SF (10 YRS)	PROJECTED TREE COVER SF TOTALS	NOTES
Trees								
4	Cornus florida 'Appalachian Spring'	Appalachian Spring Dogwood		6' HT	B&B	124	496	
4	Liriodendron tulipifera	Tulip Poplar		2.5" CAL	B&B	430	1720	
3	Magnolia virginiana	Sweetbay Magnolia		8' HT	B&B	79	237	
6	Nyssa sylvatica 'Wildfire'	Wildfire Blackgum		2" CAL	B&B	151	906	
26	Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetree		2.5" CAL	B&B	422	10972	
4	Quercus alba	White Oak		2.5" CAL	B&B	289	1156	
4	Quercus bicolor	Swamp White Oak		2.5" CAL	B&B	339	1356	
16	Quercus phellos	Willow Oak		2.5" CAL	B&B	419	6704	
11	Quercus rubra	Red Oak		2.5" CAL	B&B	481	5291	
9	Quercus shumardii	Shumard Oak		2.5" CAL	B&B	372	3348	
12	Tilia americana 'Redmond'	Redmond American Basswood		2.5" CAL	B&B	222	2664	
2	Ulmus americana 'Princeton'	Princeton American Elm		2.5" CAL	B&B	464	928	
							35778	TOTAL PROJECTED TREE COVER SF
Shrubs								
25	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	#3	24" HT	Container			
250	Cornus sericea 'Kelsey's Dwarf'	Red Osier Dogwood	#3	24" HT	Container			
29	Ilex verticillata 'Berry Poppins'	Winterberry Holly (F)	#3	24" HT	Container			
13	Ilex verticillata 'Mr. Poppins'	Winterberry Holly (M)	#3	24" HT	Container			
120	Itea virginica 'Henry's Garnet'	Virginia Sweetspire	#3	24" HT	Container			
64	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry	#3	24" HT	Container			
89	Itea virginica	Virginia Sweetspire	#3	24" HT	Container			
Groundcover/Grass/Perennial/Vine								
65	Aesclepias incarnata	Swamp Milkweed	#1	PLUG	Container			
29	Chasmanthium latifolium	Northern Sea Oats	#1	PLUG	Container			
244	Iris versicolor	Blue Flag Iris	#1	PLUG	Container			
105	Monarda didyma 'Grand Marshall'	Scarlet Beebalm	#1	PLUG	Container			
329	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	#1	PLUG	Container			
1,868	Bouteloua dactyloides	Buffalo Grass	#2	PLUG				
221	Caryx garyi	Gray's Sedge	#1	PLUG	Container			

PRESERVED TREE CANOPY

QUANTITY	BOTANICAL NAME	COMMON NAME	PROJECTED TREE COVER SF (20 YRS)	PROJECTED TREE COVER SF WITH 1.26X CREDIT	PROJECTED TREE COVER SF TOTALS	NOTES
Trees						
8	Unknown	Large Deciduous Tree	315	394	3150	
10	Quercus rubra	Red Oak	600	750	7500	
6	Acer spp.	Unspecified Maple	315	394	2363	
3	Unknown	Coniferous Tree	175	219	656	
2	Ilex spp.	Unspecified Holly	175	219	438	
					14106	TOTAL EXISTING TREE COVER SF

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
JOHN SYDNEY KNIGHT
Lic. No. 1046
10/04/2024
LANDSCAPE ARCHITECT

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: JSK
DRAWN BY: HR

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PLANTING DETAILS

L403

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
PLOTTING DATE & TIME: 10/1/2024 6:37:19 AM

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
	S2-IV		8	Lithonia Lighting	DSX0 LED P3 30K 80CRI T4M	D-Series Size 0 Area Luminaire P3 Performance Package 3000K CCT 80 CRI Type 4 Medium - Mounted at 12'-0" AFG	1	7776	1	68.95	 Max: 6220cd
	S2-IV-HS		1	Lithonia Lighting	DSX0 LED P3 30K 80CRI T4M HS	D-Series Size 0 Area Luminaire P3 Performance Package 3000K CCT 80 CRI Type 4 Medium Houseside Shield - Mounted at 12'-0" AFG	1	6689	1	68.95	 Max: 5676cd
	S3-II		2	Lithonia Lighting	DSX0 LED P5 30K 80CRI T2M	D-Series Size 0 Area Luminaire P5 Performance Package 3000K CCT 80 CRI Type 2 Medium - Mounted at 12'-0" AFG	1	10411	1	90.12	 Max: 9480cd
	S4-V		5	Lithonia Lighting	DSX0 LED P6 30K 80CRI T5W	D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 5 Wide - Mounted at 12'-0" AFG	1	15838	1	137	 Max: 10451cd
	S5-III		2	Lithonia Lighting	DSX1 LED P6 30K 80CRI T3LG	D-Series Size 1 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 3 Low G Rating - Mounted at 20'-0" AFG	1	15981	1	165.25	 Max: 10542cd
	S6-III		18	Lithonia Lighting	DSX1 LED P8 30K 80CRI T3LG	D-Series Size 1 Area Luminaire P8 Performance Package 3000K CCT 80 CRI Type 3 Low G Rating - Mounted at 20'-0" AFG	1	21810	1	215.77	 Max: 14387cd
	S6-III-EGS		8	Lithonia Lighting	DSX1 LED P8 30K 80CRI T3LG EGS	D-Series Size 1 Area Luminaire P8 Performance Package 3000K CCT 80 CRI Type 3 Low G Rating External Glare Shield - - Mounted at 20'-0" AFG	1	20178	1	215.77	 Max: 13800cd
	S7-III		2	Lithonia Lighting	DSX1 LED P8 30K 80CRI T3LG	D-Series Size 1 Area Luminaire P8 Performance Package 3000K CCT 80 CRI Type 3 Low G Rating - Mounted at 20'-0" AFG	1	21810	1	431.54	 Max: 14387cd
	S8-III		12	Lithonia Lighting	DSX1 LED P8 30K 80CRI T3LG	D-Series Size 1 Area Luminaire P8 Performance Package 3000K CCT 80 CRI Type 3 Low G Rating - Mounted at 20'-0" AFG	1	21810	1	431.54	 Max: 14387cd
	W2		11	Lithonia Lighting	ARC1 LED P2 30K	ARC1 LED WITH P2 - PERFORMANCE PACKAGE, 3000K - Mounted at 8'-6" AFG	1	2035	1	16.7843	 Max: 1328cd

NOTE: EACH OUTDOOR LUMINAIRE EQUIPPED WITH A LAMP THAT EMITS 3,000 OR MORE MAXIMUM LUMENS MUST BE A FULL CUT-OFF LUMINAIRE AND MUST BE ARRANGED OR SHIELDED TO REFLECT LIGHT AWAY FROM ADJOINING RESIDENTIAL DISTRICTS AND AWAY FROM ADJACENT ROADS.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LEED Pedistrian Lighting Area 1	✳	3.1 fc	8.3 fc	0.1 fc	83.0:1	31.0:1
LEED Pedstrian Area Lightin Area 2	■	3.1 fc	10.8 fc	0.5 fc	21.6:1	6.2:1
LEED Roadway	✳	2.5 fc	13.8 fc	0.0 fc	N/A	N/A
Parking Lot	×	5.9 fc	15.4 fc	1.4 fc	11.0:1	4.2:1
Pedistrian Lighting	+	3.4 fc	12.0 fc	0.2 fc	60.0:1	17.0:1
Roadway and Parking Lot Lighting	+	6.4 fc	20.3 fc	0.3 fc	67.7:1	21.3:1
Sidewalk 2	×	5.4 fc	12.5 fc	0.9 fc	13.9:1	6.0:1
Sidewalk 3	×	5.6 fc	12.4 fc	0.5 fc	24.8:1	11.2:1
LEED Boundary	+	1.3 fc	16.4 fc	0.0 fc	N/A	N/A

NOTE: THE SPILLOVER OF LIGHTING FROM LUMINAIRES ONTO PUBLIC ROADS AND PROPERTY IN RESIDENTIAL OR RURAL ZONING DISTRICTS SHALL NOT EXCEED ONE-HALF FOOT CANDLE.

QUINN EVANS
1840 WEST BROAD STREET
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ENERGY BY DESIGN
100 10th St. NE
Suite 202
Charlottesville, VA 22902
T: 434.296.2116 | 2RW.com

NOT FOR CONSTRUCTION

Albemarle County Public Schools

ACPS High School Center II

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: NAC AMH

QEA No.41911390 / 19168

ARB - SECOND SUBMISSION
10/02/2024

SCHEDULES

ES100A

PATH & FILENAME: C:\Users\Bethany.Ott\Documents\Revit Files\19168_E23_ACPS HS Center II_Elect_Bethany9.rvt
PLOTTING DATE & TIME: 8/7/2024 11:04:40 AM

TYPES S2, S3 AND S4: 12' POLE



D-Series Size 0
LED Area Luminaire

Catalog Number

Notes

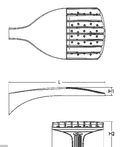
Type

*In the box type boxes enter the page # (or all elements) otherwise.

d-series

Specifications

EPA: 0.44 ft² (0.04 m²)
Length: 26.18" (665.1 mm)
Height: 14.06" (35.7 mm)
Height H1: 2.26" (57.4 mm)
Height H2: 7.66" (194.6 mm)
Weight: 23 lbs (10.4 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

designselect

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 (this section 70CRI only) **Rotated optics** P10* P12* P11* P13*	30K 3000K 40K 4000K 50K 5000K (this section 70CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low-glare [1] T4M Type IV medium T4LG Type IV low-glare [1] T5FT(M) Forward throw medium T5W Type V wide T5VW Type V very wide T5AW Type V asymmetric BLC3 Type III backlight control [2] BLC4 Type IV backlight control [2] LCCO Left corner cutoff [2] RCCO Right corner cutoff [2] BLCX Backlight control, extended [2] LCCO Left corner cutoff, extended [2] RCCO Right corner cutoff, extended [2]	MVOLT (120V-277V) [3] HVOLT (347V-480V) [3] XVOLT (277V-480V) [3] 120 [4,5] 208 [4,5] 240 [4,5] 277 [4,5] 347 [4,5] 480 [4,5]	**Shipped included** SPA Square pole mounting (fit drilling 3.5" min. SQ pole) RPA Round pole mounting (fit drilling 3" min. RND pole) SPA5 Square pole mounting (fit drilling 5" min. SQ pole) RPA5 Round pole mounting (fit drilling 5" min. RND pole) SPA8IN Square narrow pole mounting (fit drilling 3" min. SQ pole) WBA Wall bracket [6] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN Nlight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [7, 8, 9] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [7, 8, 9] PER NEMA twist-lock receptacle only (controls ordered separately) [10] PERS Five-pin receptacle only (controls ordered separately) [10, 11] PE7/7 Seven-pin receptacle only (controls ordered separately) [10, 11] FAO Field adjustable output [12, 13] BL30 Bi-level switched dimming, 30% [14, 15] BL50 Bi-level switched dimming, 50% [14, 15] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [15] DMG Pigtail for use with 2 wire 0-10V dimming driver (ordered separately) [15]	**Shipped installed** HS Houseside shield (1 pack finish standard) [16] L90 Left rotated optics [1] R90 Right rotated optics [1] CCE Coastal Construction [17] WA 32°C ambient operation [2] BAA Buy American(s) Act Compliant SF Single Fuse (120, 277, 347V) [18] DF Double Fuse (208, 240, 480V) [18] **Shipped separately** EGSA External Glare Shield (reversible, field install required, notches housing finish) BSCB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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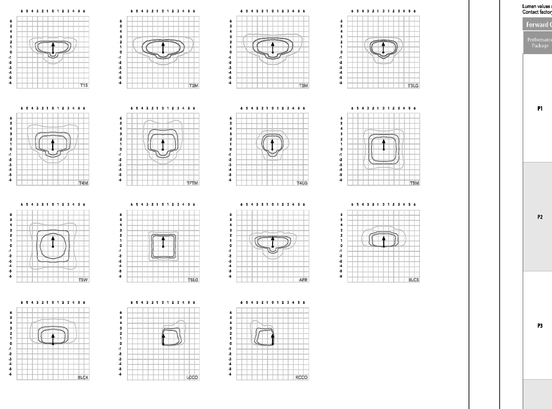
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND
0.1 fc
0.5 fc
1.0 fc



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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution type	30K (3000K, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)			
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	31W	20	330	T1S	4,906	1	0	1	148	5,110	1	0	1	154	5,013	1	0	1	151
				T2M	4,540	1	0	2	137	4,730	1	0	2	143	4,639	1	0	2	140
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,197	1	0	1	134	4,280	1	0	1	129	4,393	1	0	1	131
				T4M	4,666	1	0	2	141	4,860	1	0	2	146	4,957	1	0	2	149
				T4LG	4,241	1	0	1	128	4,423	1	0	1	133	4,508	1	0	1	136
				T5FTM	4,688	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5W	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5VW	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5AW	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	3	0	1	148	5,113	3	0	1	154	5,211	3	0	1	157
				T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,303	1	0	3	140
				T3LG	5,297	1	0	1	117	5,523	1	0	1	122	5,631	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,476	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				T5FTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
P2	45W	20	700	T5W	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5VW	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5AW	6,210	2	0	1	138	6,472	2	0	1	143	6,598	2	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	3	0	1	140	6,595	3	0	1	146	6,724	3	0	1	149
				T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	2	121	8,694	2	0	2	126	8,864	2	0	2	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,792	1	0	2	113	8,121	1	0	2	118	8,277	1	0	2	120
				T5FTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
P3	69W	20	1050	T5W	8,812	3	0	2	128	9,184	3	0	2	133	9,363	3	0	2	136
				T5VW	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5AW	8,838	2	0	1	128	9,211	2	0	1	134	9,393	3	0	1	136
				BLC3	6,138	0	0	2	89	6,398	0	0	3	93	6,522	0	0	2	95
				BLC4	6,341	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	3	0	2	131	9,386	3	0	2	136	9,569	3	0	2	139
				T1S	11,596	1	0	2	122	11,877	1	0	2	125	12,109	2	0	2	127
				T2M	10,557	2	0	3	111	11,003	2	0	3	115	11,217	2	0	3	117
				T3M	10,680	2	0	3	112	11,130	2	0	3	117	11,347	2	0	3	119
				T3LG	9,540	1	0	2	101	9,942	1	0	2	105	10,136	1	0	2	106
				T4M	10,839	2	0	3	114	11,296	2	0	3	119	11,516	2	0	3	121
				T4LG	9,858	1	0	2	104	10,274	1	0	2	108	10,474	1	0	2	110
				T5FTM	10,914	2	0	3	115	11,374	2	0	3	120	11,596	2	0	3	122
P4	95W	20	1400	T5W	11,152	4	0	2	120	11,622	4	0	2	123	11,849	4	0	2	127
				T5VW	11,332	4	0	3	122	11,813	4	0	3	127	12,043	4	0	3	129
				T5AW	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	91
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,596	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

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Performance Data

Lumen Output

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Contact factory for performance data on any configurations not shown here.

Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution type	30K (3000K, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)			
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,935	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				T5FTM	7,075	3	0	3	139	7,372	3	0	3	145	7,519	3	0	3	148
				T5W	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5VW	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5AW	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	2	0	2	99	5,256	2	0	3	103	5,358	2	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	3	0	2	100	5,303	3	0	2	104	5,407	3	0	2	106
				LCCO	5,089	3	0	2	100	5,303	3	0	2	104	5,407	3	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,660	3	0	3	127	9,054	3	0	3	133	9,233	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,855	2	0	2	115	8,184	3	0	3	120	8,343	3	0	3	122
				T4M	8,891	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,090	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				T5FTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
P11	68W	30	700	T5W	9,136	4	0	2	135	9,542	4	0	3	140	9,728	4	0	3	143
				T5VW	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5AW	9,182	3	0	2	135	9,568	3	0	2	140	9,756	3	0	2	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	3	0	3	95	6,708	3	0	3	99	6,838	3	0	3	101
				LCCO	6,436	3	0	3	95	6,707	3	0	3	99	6,838	3	0	3	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,273	4	0	4	119	12,790	4	0	4	124	13,038	3	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,088	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	130
				T4LG	11,457	3	0	3	111	11,941	3	0	3	116	12,171	3	0	3	118
				T5FTM	12,688	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
P12	103W	30	1050	T5W	12,940	4	0	3	125	13,484	4	0	3	131	13,742	4	0	3	133
				T5VW	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5AW	12,998	3	0	3	126	13,547	4	0	3	131	13,810	4	0	3	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,591	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T1S	15,266	4	0	4	122	15,770	4	0	4	127	16,045	4	0	4	129
				T2M	14,147	4	0	4	113	15,161	4	0	4	118	15,437	4	0	4	120
				T3M	14,716	4	0	4	118	15,320	4	0	4	123	15,614	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,953	4	0	4	116	15,561	4	0	4	121	15,863	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				T5FTM	15,059	4	0	4	117	15,683	4	0	4	122	15,979	4	0	4	124
P13	129W	30	1300	T5W	15,364	4	0	4	119	16,013	4	0	4	124	16,325	4	0	4	127
				T5VW	15,613	5	0	4	121	16,272	5	0	4	126	16,589	5	0	4	129
				T5AW	15,409	3	0	3	120	16,059	3	0	3	125	16,372	4	0	4	127
				BLC3	10,701	4	0	4	83	11,153	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,750	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [1]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [1]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [1]
DSX0HS*** SBK	Shorting cap [2]
DSX0HS IW	Houseside shield (**see** package number P1-7, P10-13 for proper #)
DSX0PA (RPA/SPA)	Round pole adapter (#5 drilling; specify finish)
DSX0PA5 (F5/S5)	Round pole adapter (#5 drilling (specify finish)
DSX0PA15 (F8/S8)	Square pole adapter (#5 drilling (specify finish)
DSX0SCA (FIN/SQA)	External glare shield (specify finish)
DSX0BSCB (FIN/SB)	Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2. 30K, 40K, and 50K available in 70CRI and 80CRI; 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T1S, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. Wall bracket is intended for use on flat, horizontal surfaces only. Not available with NLTAIR2 PIRHN or option PIR.
7. Reference Motion Sensor Default Settings table on page 6 to see functionality.
8. Reference Controls Options table on page 6.
9. Not available with P1, P2, P3, P4, P5, P6, P7, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
10. CCE option not available with option EE and EGSR. Contact Technical Support for availability.
11. Caution: Ink not available with performance packages P6, P7, P12 and P13.
12. Requires luminaire to be specified with PER, PIR, PIR1FC3V, or PIRH. See Controls Table on page 4.
13. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
14. Not available with P1, P2 or P10. XVOLT not available with fusing (SF or DF).
15. SPA and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
16. Not available with P1, P2 and P10. Must be ordered with fixture for proper sizing.
17. NLTAIR2 and PIRHN must be ordered together. For more information on NLight Air 2.
18. NLTAIR2 PIRHN not available with other controls including PIR, PIR1, PIR1FC, PIR1, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10. Reference Controls Options table on page 4 to see functionality. Not available with BLC3, BLC4, LCCO, RCCO.
19. PIR not available with NLTAIR2, PIR, PIR1, PIR1FC, PIR2, BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P7 using MVOLT.
20. Not available with NLTAIR2, PIR, PIR1, PIR1FC, PIR2, BL30, BL50. Thumbnail ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
21. PAD not available with other dimming control options NLTAIR2 PIRHN, PIR, PIR1, PIR1FC, PIR2, BL30, BL50, or DMG.
22. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PIR1, PIR1FC, PIR2, PAD and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for other voltages.
23. DMG not available with NLTAIR2 PIRHN, PIR, PIR1, PIR1FC, PIR2, BL30, BL50 and PAD.
24. Reference Motion Sensor Default Settings table on page 4 to see functionality.
25. Reference Controls Options table on page 4.
26. Not available with P1, P2, P3, P4, P5, P6, P7, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
27. CCE option not available with option EE and EGSR. Contact Technical Support for availability.
28. Caution: Ink not available with performance packages P6, P7, P12 and P13.
29. Requires luminaire to be specified with PER, PIR, PIR1FC3V, or PIRH. See Controls Table on page 4.
30. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



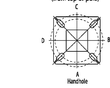
External Glare Shield (EGSR)

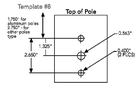


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION
(from top of pole)





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AST3-5 190	AST3-5 280	AST3-5 290	AST3-5 390	AST3-5 320	AST3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Weight	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Maximum Acceptable Outdoor Pole Dimensions					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	5"	5"	5"	5"	

TYPES S5, S6, S7 AND S8: 20' POLE



D-Series Size 1
LED Area Luminaire

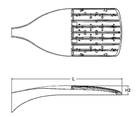
d*series

Catalog Number
Notes
Type

Do not fold up or mount over the page to see all interactive elements

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.86" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P2 P3 P4 P5 **Rotated optics** P10[1] P11[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 70CRI, 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low gain[2] T4M Type IV medium T4LG Type IV low gain[2] BTRM Forward throw medium	T3M Type III medium T3LG Type III low gain[2] T3W Type III wide BLCS Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[5,7] 120[5,8] 208[5,8] 240[5,8] 277[5,8] 347[5,8] 480[5,8]	**Shipped included** SPA Square pole mounting (RPA drilling) RPA Round pole mounting (RPA drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket [9] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40 mounting height, ambient sensor enabled at 25 fc[10,11,12,13] PIR High/low, motion/ambient sensor, 8–40 mounting height, ambient sensor enabled at 25 fc[10,11] PER NEMA twist-lock receptacle only (controls ordered separate)[14] PERS Five-pin receptacle only (controls ordered separate)[14,15]	PE87 Seven-pin receptacle only (controls ordered separate)[14,15] FAO Field adjustable output[16,17] BL30 Bi-level switched dimming, 30% [16,18] BL50 Bi-level switched dimming, 50% [16,18] DMG 0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[19] DS Dual switching [16,19,20] **Shipped installed** SPD20KV 20KV surge protection HS Houseside shield (black finish standard)[21] LSO Left-exited optics[22] RSO Right-exited optics[22] CCE Coastal Construction[23] HA 50°C ambient operation[24] BAA Buy American Act Compliant SF Single fuse (120, 277, 347V)[25] DF Double fuse (208, 240, 480V)[25] **Shipped separately** DSSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

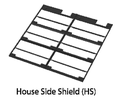
DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) [26]
DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) [26]
DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) [26]
DSHORT SBK Shorting cap [27]
DSX1HS PIV House-side shield (same package number 1-15 is given at PIV)
DSX1HS BTRDXD Round pole adapter (#8 drilling, specify finish)
DSX1HS SPADXD Square pole adapter (#5 drilling (specify finish)
DSX1HS RPADXD Round pole adapter (#5 drilling (specify finish)
DSX1EGSR DSSR External glare shield (specify finish)
DSX1BSDB DSBSDB Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option LRO or RRO.
2. 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T1LG, T4LG, BLCS, BLC4, LCCO, RCCO not available with HVOLT.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1 or P10. XVOLT not available with fusing (DF or DF).
9. SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10. Reference Motion Sensor Default Settings table on page 4 to see functionality.
11. NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIRZ visit this link.
12. NLTAIR2 PIRHN not available with other controls including PIR, PER, PERS, PE87, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 when combined with option NLTAIR2 PIRHN. For P1 and P10 using HVOLT, PIR must be ordered.
13. PIR or NLTAIR2 PIRHN with NLTAIR2 PIRHN, PER, PERS, PE87, FAO, BL30, BL50, DMG and DS. PIR not available with P1 and P10 using MVOLT.
14. PER/PERS/PE87 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
15. Five-pin receptacle only and seven-pin receptacle only for NLTAIR2 PIRHN, PIR, PERS, PE87, BL30, BL50, DMG and DS.
16. BL30 and BL50 not available with NLTAIR2 PIRHN, PIR, PER, PERS, PE87, FAO, DMG and DS. BL30 or BL50 not available 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
17. FAO not available with NLTAIR2 PIRHN, PIR, PER, PERS, PE87, BL30, BL50, FAO and DS.
18. DS not available with NLTAIR2 PIRHN, PIR, PER, PERS, PE87, BL30, BL50, FAO and DMG.
19. DS requires 2 separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P2, P3, P11, P12 and P13.
20. Reference Motion Sensor Default Settings table on page 4 to see functionality.
21. Not available with P1, P10, P11, P12 and P13.
22. HS not available with T1LG, T4LG, BLCS, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23. CCE option not available with option BN and XVOLT. Contact Technical Support for availability.
24. Option HA not available with performance packages P4, P5, P7, P8 and P13.
25. Requires luminaire to be specified with PER, PERS or PE87 option. See Controls Table on page 4.
26. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole

Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
2-3/8"	RPA	AST2-5 190	AST2-5 290	AST2-5 390	AST2-5 490	AST2-5 590	AST2-5 690
3-7/8"	RPA	AST35-190	AST35-290	AST35-390	AST35-490	AST35-590	AST35-690
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-590	AST35-690

Templates #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types

Mounting Option	Drilling Template	Side A	90° Side B & C	180° Side B & C	90° Side A, B, C & D	120° Side A, B, C & D	90° Side A, B, C & D
Fixed Location	#8	Side B	Side A & D	Side B & C	Side A, B, C & D	Round Pole Only	Side A, B, C & D
Field Reconfigurable	#8	DMA11AS	DMA2AAS	DM2AAS	DMA2AAS	DM32AS	DM4AAS

Mounting Option	Drilling Template	Side A	90° Side B & C	180° Side B & C	90° Side A, B, C & D	120° Side A, B, C & D	90° Side A, B, C & D
Fixed Location	#8	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"
RPA	#5	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"	3"	3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"	3"	3"

DSX1 Area Luminaire - EPA

Templates are to scale and are an integral requirement. Corner tenons, arms, brackets or other accessories are not included in this EPA data.

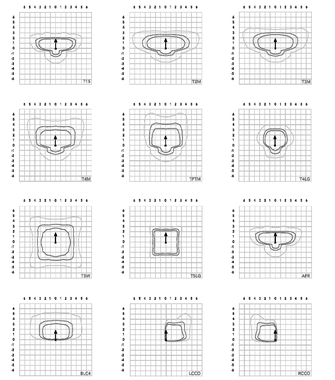
Fixture Quantity & Mounting Configuration	Single ARM39	2 @ 180 ARM28	2 @ 90 ARM29	3 @ 90 ARM39	3 @ 120 ARM3632	4 @ 90 ARM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.38
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.98	1.68
DSX1 with MA	0.83	1.66	1.50	2.00	2.59	2.09

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX1 LED P7 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
0.1 fc
0.5 fc
1.0 fc



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)			
					Lumens	B	U	G	Lumens	B	U	G	Lumens	B	U	G
P1	51W	30	536	T1S	7,776	1	0	2	8,104	1	0	2	8,262	1	0	2
				T2M	7,200	1	0	3	7,507	2	0	3	7,653	2	0	3
				T3M	7,287	1	0	3	7,596	2	0	3	7,742	2	0	3
				T3LG	6,589	1	0	1	6,785	1	0	1	6,916	1	0	1
				T4M	7,395	2	0	3	7,707	2	0	3	7,857	2	0	3
				T4LG	6,726	1	0	1	7,010	1	0	1	7,146	1	0	1
				TFTM	7,446	1	0	3	7,760	1	0	3	7,912	1	0	3
				T5M	7,609	3	0	2	7,930	3	0	2	8,084	3	0	2
				T5W	7,792	3	0	2	8,122	3	0	2	8,280	3	0	2
				T5LG	7,631	3	0	1	7,953	3	0	1	8,108	3	0	1
				BLCS	5,300	0	0	2	5,524	0	0	2	5,631	0	0	2
				BLC4	5,474	0	0	3	5,705	0	0	3	5,815	0	0	3
				RCCO	5,348	0	0	2	5,573	0	0	2	5,682	0	0	2
				LCCO	5,348	0	0	2	5,573	0	0	2	5,682	0	0	2
				AFR	7,776	1	0	3	8,104	1	0	3	8,262	1	0	3
P2	68W	30	700	T1S	9,997	1	0	2	10,418	1	0	2	10,621	1	0	2
				T2M	9,260	2	0	3	9,651	2	0	3	9,839	2	0	3
				T3M	9,368	2	0	3	9,763	2	0	3	9,953	2	0	3
				T3LG	8,368	1	0	2	8,721	1	0	2	8,891	1	0	2
				T4M	9,507	2	0	3	9,909	2	0	3	10,102	2	0	3
				T4LG	8,647	1	0	2	9,012	1	0	2	9,187	1	0	2
				TFTM	9,573	2	0	3	9,977	2	0	3	10,172	2	0	3
				T5M	9,782	4	0	2	10,195	4	0	2	10,393	4	0	2
				T5W	9,940	4	0	2	10,360	4	0	2	10,562	4	0	2
				T5LG	9,810	4	0	1	10,224	3	0	1	10,423	3	0	1
				BLCS	6,814	0	0	2	7,101	0	0	2	7,240	0	0	2
				BLC4	7,038	0	0	3	7,334	0	0	3	7,477	0	0	3
				RCCO	6,875	1	0	2	7,165	1	0	2	7,305	1	0	2
				LCCO	6,875	1	0	2	7,165	1	0	2	7,305	1	0	2
				AFR	9,997	1	0	3	10,418	1	0	3	10,621	1	0	3
P3	102W	30	1050	T1S	14,093	2	0	2	14,687	2	0	2	14,973	2	0	2
				T2M	13,053	2	0	3	13,605	2	0	3	13,871	2	0	3
				T3M	13,206	2	0	4	13,763	2	0	4	14,031	2	0	4
				T3LG	11,797	2	0	2	12,294	2	0	2	12,534	2	0	2
				T4M	13,403	2	0	4	13,968	2	0	4	14,241	2	0	4
				T4LG	12,193	2	0	2	12,704	2	0	2	12,952	2	0	2
				TFTM	13,496	2	0	4	14,065	2	0	4	14,339	2	0	4
				T5M	13,790	4	0	2	14,371	4	0	2	14,652	4	0	2
				T5W	14,013	4	0	3	14,605	4	0	3	14,889	4	0	3
				T5LG	13,830	4	0	2	14,413	3	0	2	14,694	3	0	2
				BLCS	9,606	0	0	2	10,011	0	0	2	10,206	0	0	2
				BLC4	9,921	0	0	3	10,340	0	0	3	10,541	0	0	3
				RCCO	9,692	1	0	2	10,101	1	0	2	10,298	1	0	2
				LCCO	9,692	1	0	2	10,101	1	0	2	10,298	1	0	2
				AFR	14,093	2	0	2	14,687	2	0	2	14,973	2	0	2

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)			
					Lumens	B	U	G	Lumens	B	U	G	Lumens	B	U	G
P4	124W	30	1220	T1S	16,416	2	0	3	17,109	2	0	3	17,442	2	0	3
				T2M	15,207	3	0	4	15,849	3	0	4	16,158	3	0	4
				T3M	15,383	2	0	4	16,032	2	0	4	16,345	2	0	4
				T3LG	13,767	2	0	2	14,345	2	0	2	14,625	2	0	2
				T4M	15,613	2	0	4	16,272	2	0	4	16,589	2	0	4
				T4LG	14,200	2	0	2	14,799	2	0	2	15,087	2	0	2
				TFTM	15,721	2	0	4	16,384	2	0	4	16,703	2	0	4
				T5M	16,063	4	0	2	16,741	4	0	2	17,067	4	0	2
				T5W	16,334	5	0	3	17,022	5	0	3	17,347	5	0	3
				T5LG	16,119	5	0	2	16,800	4	0	2	17,117	4	0	2
				BLCS	11,193	0	0	2	11,667	0	0	2	11,894	0	0	2
				BLC4	11,562	0	0	3	12,049	0	0	3	12,279	0	0	3
				RCCO	11,297	1	0	3	11,767	1	0	3	11,996	1	0	3
				LCCO	11,297	1	0	3	11,767	1	0	3	11,996	1	0	3
				AFR	16,416	2	0	3	17,109	2	0	3	17,442	2	0	3
P5	136W	30	1400	T1S	18,052	2	0	3	18,814	2	0	3	19,180	2	0	3
				T2M	16,723	3	0	4	17,428	3	0	4	17,768	3	0	4
				T3M	16,917	3	0	4	17,630	3	0	4	17,974	3	0	4
				T3LG	15,111	2	0	2	15,749	2	0	2	16,055	2	0	2
				T4M	17,169	3	0	4	17,890	3	0	4	18,242	3	0	4
				T4LG	15,613	2	0	2	16,274	2	0	2	16,591	2	0	2
				TFTM	17,288	3	0	4	18,017	2	0	3	18,368	3	0	3
				T5M	17,664	4	0	3	18,410	4	0	3	18,775	4	0	3
				T5W	17,951	5	0	3	18,708	5	0	3	19,073	5	0	3
				T5LG	17,716	4	0	2	18,463	4	0	2	18,823	4	0	2
				BLCS	12,305	0	0	2	12,824	0	0	3	13,074	0	0	3
				BLC4	12,709	0	0	4	13,245	0	0	4	13,503	0	0	4
				RCCO	12,416	1	0	3	12,940	1	0	3	13,192	1	0	3
				LCCO	12,416	1	0	3	12,940	1	0	3	13,192	1	0	3
				AFR	18,052	2	0	3	18,814	2	0	3	19,180	2	0	3
P6	215W	40	1250	T1S	21,811	2	0	3	22,731	2	0	3	23,165	2	0	3
				T2M	19,482	3	0	4	20,300	3	0	4	20,689	3	0	4
				T3M	19,708	3	0	5	20,539	3	0	5	20,932	3	0	5
				T3LG	17,604	2	0	2	18,347	2	0	2	18,698	2	0	2
				T4M	20,001	3	0	5	20,843	3	0	5	21,241	3	0	5
				T4LG	18,191	2	0	2	18,959	2	0	2	19,320	2	0	2
				TFTM	20,140	2	0	4	20,989	2	0	4	21,390	3	0	4
				T5M	20,570	5	0	3	21,441	5	0	3	21,851	5	0	3
				T5W	20,912	5	0	3	21,795	5	0	4	22,210	5	0	4
				T5LG	20,638	4	0	2	21,509	4	0	2	21,928	4	0	2
				BLCS	14,335	0	0	2	14,940	0	0	3	15,231	0	0	3
				BLC4	14,802	0	0	4	15,430	0	0	4	15,731	0	0	4
				RCCO	14,464	1	0	3	15,076	1	0	3	15,368	1	0	3
				LCCO	14,464	1	0	3	15,076	1	0	3	15,368	1	0	3
				AFR	21,031	2	0	3	21,918	2	0	3	22,345	2	0	3

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.01
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C** ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate L87, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For values not listed, contact factory. Contact factory for performance data on any configurations not shown here.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

LED Current	% Power	% Lumens Output
8	100%	100%
7	93%	93%
6	82%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on spec/ication sheet (input watts and lumens by optic type).

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	3 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	3 min

Controls Options

Control Lines	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the Luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on 2G42)	Driver wired independently for 50/50 luminaire operation	The luminaire is wired in two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DSL Elite or advanced control nodes such as RDAN.	Pins 4 & 7 go to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with 360deg photocell. Sensor suitable for 8'-40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Garmin rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Master and ambient light sensing with group response. Scheduled dimming with ambient sensor over-ride when wirelessly connected to the nLight Edimax.	nLight for rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the Cluster Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads so all drivers providing either 300% or dimmed (30% or 50%) control by a secondary circuit	BLC UVACT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Electrical Load

Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.13	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1200	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.13	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	256	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.01	1.23	1.15	1.00	0.80	0.58
Rotated Optics (Requires LDO or RRO)	P10	60	550	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80 CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time
4000K	100%	Standard	92%	Extended lead-time
3500K	100% (see note)	90%	Extended lead-time	63% (see note)
3000K	96%	Standard	87%	Extended lead-time
2700K	94% (see note)	83%	Extended lead-time	57% (see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

| Performance Package | System Watts | LED Count | Drive Current (mA) | Distribution Type | 30K (3000K, 70 CRI) | | |

TYPE W2: 8'-6" MOUNTING HEIGHT



ARC1 LED
Architectural Wall Luminaire

Catalog Number

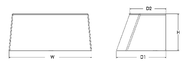
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

Specifications

Depth (D1): 6.5"
Depth (D2): 4.75"
Height: 5"
Width: 11"
Weight: (without options) 7 lbs



Introduction

The Lithonia Lighting ARC LED wall-mounted luminaires provide both architectural styling and visually comfortable illumination while providing the high energy savings and low initial costs for quick financial payback.

ARC1 delivers up to 3,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of ARC1, with its integrated emergency battery backup option, is ideal for over-the-door applications.

ARC LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Approximate Lumens (4000K)				
			P1	P2	P3	P4	P5
ARC1 LED	4W	--	1,500	2,000	3,000	--	--
ARC2 LED	4W	8W	1,500	2,000	3,000	4,000	6,500

Ordering Information

EXAMPLE: ARC1 LED P2 40K MVOLT PE DDBXD

Series	Package	Color Temperature	Voltage	Options	Finish
ARC1 LED	P1 1,500 Lumens P2 2,000 Lumens P3 3,000 Lumens	30K 3000K 40K 4000K 50K 5000K	MVOLT 347[1]	E4WH Emergency battery backup, CEC compliant (4W, 0°C min)[1] PE Button type photocell for dusk-to-dawn operation DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[2] SPDMVV 6kV surge protection FAO Field adjustable light output device. Allows for easy adjustment to the desired light levels, from 20% to 100%[2]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHCXD Textured white DSSTXD Textured sandstone

NOTES
1 347V not available with E4WH.
2 FAO not available with DMG.

Accessories

Ordered and shipped separately.
WBBW DDBXD U — Surface - mounted back box (specify finish)

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
		Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	11W	1,376	127	0	0	0	1,454	134	0	0	0	1,464	135	0	0	0
P2	17W	2,035	121	1	0	1	2,151	128	1	0	1	2,165	129	1	0	1
P3	25W	2,859	117	1	0	1	3,021	123	1	0	1	3,041	124	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	11W	0.111	0.063	0.053	0.047	0.045
P2	17W	0.139	0.081	0.071	0.063	0.060
P3	25W	0.208	0.122	0.108	0.097	0.081

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Lumens
E4WH	620

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 72,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate L27, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	0.97	>0.96	>0.95	>0.91

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting ARC LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



ARC1 LED P3 40K

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TYPE SSS: XX

LITHONIA LIGHTING®

Catalog Number

Notes

Type

Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL

BAA

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Square (Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, 0.120"), or 50 KSI (7-gauge, 0.179"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

Pole Top: Options include 4" tenon top, drilled for side mount fixtures; tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable top cap.

Handholes: A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

Base Cover: A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

Anchor Base/Bolts: Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

HARDWARE — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets SAE and SB classifications of ASTM D3359. Powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
Please refer to www.acuitybrands.com/buy-american for additional information.

INSTALLATION — Do not erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE. Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

SSS Square Straight Steel Poles

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust

Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	EPA (ft²) with 1.3 gust						Approximate ship weight (lbs.)
					80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight	
SSS 10 4C	10	4.0 x 10.0	0.120"	11	30.6	765	23.8	595	18.9	473	75
SSS 12 4C	12	4.0 x 12.0	0.120"	11	24.4	610	18.8	470	14.8	370	90
SSS 14 4C	14	4.0 x 14.0	0.120"	11	19.9	498	15.1	378	11.7	293	100
SSS 16 4C	16	4.0 x 16.0	0.120"	11	15.9	398	11.8	295	8.9	223	115
SSS 18 4C	18	4.0 x 18.0	0.120"	11	12.6	315	9.2	230	6.7	168	125
SSS 20 4C	20	4.0 x 20.0	0.120"	11	9.6	240	6.7	167	4.5	150	140
SSS 20 4G	20	4.0 x 20.0	0.179"	7	14	350	11	275	8	200	198
SSS 20 5C	20	5.0 x 20.0	0.120"	11	17.7	443	12.7	345	9.4	235	185
SSS 20 5G	20	5.0 x 20.0	0.179"	7	28.1	703	21.4	535	16.2	405	265
SSS 25 4C	25	4.0 x 25.0	0.120"	11	4.8	150	2.6	100	1	50	170
SSS 25 4G	25	4.0 x 25.0	0.179"	7	10.8	270	7.7	188	5.4	135	245
SSS 25 5C	25	5.0 x 25.0	0.120"	11	9.8	245	6.3	157	3.7	150	225
SSS 25 5G	25	5.0 x 25.0	0.179"	7	18.5	463	13.3	333	9.5	238	360
SSS 30 4G	30	4.0 x 30.0	0.179"	7	6.7	168	4.4	110	2.6	65	295
SSS 30 5C	30	5.0 x 30.0	0.120"	11	4.7	150	2	50	--	--	265
SSS 30 5G	30	5.0 x 30.0	0.179"	7	10.7	267	6.7	167	3.9	100	380
SSS 30 6G	30	6.0 x 30.0	0.179"	7	19	475	13.2	330	9	225	520
SSS 35 5G	35	5.0 x 35.0	0.179"	7	5.9	150	2.5	100	--	--	440
SSS 35 6G	35	6.0 x 35.0	0.179"	7	12.4	310	7.6	190	4.2	105	540
SSS 39 6G	39	6.0 x 39.0	0.179"	7	7.2	180	3	75	--	--	605

NOTE: EPA values are based ASCE 7-95 wind map.
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013

Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight	Approximate ship weight (lbs.)
SSS	10	4C	20	500	16	400	13	325	10.5	263	8.5	213	7	175	6	150	75
SSS	12	4C	16	400	13	325	10	250	8	200	6.5	163	5	125	4	100	90
SSS	14	4C	13.5	338	10	250	7.5	188	6	150	4.5	113	3.5	88	2.5	63	100
SSS	16	4C	10.5	263	7.5	188	5.5	138	4	100	3	75	1.5	38	1	25	115
SSS	18	4C	8	200	5.5	138	4	100	2.5	63	1.5	38	0.5	13	-	-	125
SSS	18	4G	13	325	9.5	238	7	175	5	125	3.5	88	2.5	63	1.5	38	185
SSS	18	5C	13	325	9.5	238	6.5	163	4.5	113	3	75	1.5	38	.5	13	170
SSS	20	4C	6	150	4	100	2.5	63	1	25	-	-	-	-	-	-	140
SSS	20	4G	10.5	263	7.5	188	5.5	138	3.5	88	2	50	1	25	-	-	205
SSS	20	5C	10	250	7	175	4.5	113	2.5	63	1	25	-	-	-	-	185
SSS	20	5G	20	500	15	375	11.5	288	8.5	213	6	150	4.5	113	3	75	265
SSS	25	4C	2	50	0.5	13	-	-	-	-	-	-	-	-	-	-	170
SSS	25	4G	5.5	138	3	75	1.5	38	-	-	-	-	-	-	-	-	245
SSS	25	5C	4.5	113	2	50	-	-	-	-	-	-	-	-	-	-	225
SSS	25	5G	12	300	8.5	213	5.5	138	3	75	1.5	38	-	-	-	-	360
SSS	25	6G	19	475	13.5	338	9	225	5.5	138	3	75	1	25	-	-	445
SSS	30	4G	1.5	38	-	-	-	-	-	-	-	-	-	-	-	-	291
SSS	30	5C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265
SSS	30	5G	6.5	163	3.5	88	1	25	-	-	-	-	-	-	-	-	380
SSS	30	6G	11	275	6	150	2.5	63	-	-	-	-	-	-	-	-	520
SSS	35	5C	2	50	-	-	-	-	-	-	-	-	-	-	-	-	440
SSS	35	6G	4	100	-	-	-	-	-	-	-	-	-	-	-	-	540
SSS	39	6G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	605

NOTES: AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under controversial criteria (see table above).
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

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SSS Square Straight Steel Poles

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** SSS 20 5C DM19 DDBXD

SSS					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness[1]	Mounting[2]	Options	Finish
SSS	10' -39' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C 4" Sq (0.120") 4G 4" Sq (0.179") 5C 5" Sq (0.120") 5G 5" Sq (0.179") 6G 6" Sq (0.179") (See technical information table for complete ordering information.)	Tenon mounting PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) KAC/KA2/KN2/KS2/VER/VXF Drill mounting[3] DM19 1 at 90° DM28 2 at 180° DM28HF, 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° CSX/DSX/BXA/ERS[4]/OMERO[4]/KAX Drill mounting[3] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° RAD drill mounting[3] DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM39RAD 3 at 90° DM49RAD 4 at 90° ESX Drill mounting[3] DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	Shipped installed VD Vibration dampers[4] HAxy Horizontal arm bracket. (1 fixtures)[5,6] FDLxy "Festoon outlet less electrical"[7] CFL1Xxy 1/2" coupling[8] CFL3Xxy 3/4" coupling[8] CFLIxy 1" coupling[8] NPL12xy 1/2" threaded nipple[8] NPL34xy 3/4" threaded nipple[8] NPL1xy 1" threaded nipple[8] EHXxy Extra handhole[9,10] STUHC Steel handhole cover (standard is plastic, finish is smooth)[9] FRCST12PC 2 Piece steel base cover (standard is plastic)[9] IC Interior coating[10] LiAB Less anchor bolts (include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) UL UL listed with label (includes NEC compliant cover) BAA Buy America(n) Act Compliant[11] XWarigninal ordernt Match pole to prior order or project[12]	Finish Super durable paint colors DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DGCXD Charcoal gray DTGXD Tennis green DBRXD Bright red DSBXD Steel blue DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHCXD Textured white Other finishes GALV Galvanized finish Architectural colors and special finishes[13] [PAINT] GALV Paint over galvanizing VP30 5 year warranty extension VP53 5 year warranty extension RAL#### Use designated Lithonia Lighting nomenclature in brackets Custom color Nomenclature assigned through Customer Care "Custom Color Process"

NOTES:
1. Wall thickness will be signified with a "C" (11-Gauge) or a "G" (7-Gauge) in accordance. "C" - 0.120" | "G" - 0.179".
2. PT option top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify an drilling option/tenon option. The combination includes a required extra handhole.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. On 4" and 5" poles, VD cannot be installed if provisions (DM1, 2S, 3S, 4S) are located higher than 2/3 of the pole's total height.
5. Minimum Pole height is 20ft, A prevision cannot be placed above 16ft.
6. Specify location and orientation when ordering option.
For "x" Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a ".".
Example: 2R = 2 and 2ft1 3/4 = 2R.1
For "y" Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
Example: 3.5" mounting at 9'8", orientation C = CM3.5-9C
6. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 3-3/8" O.D. If ordering two horizontal arm at the same height, specify with Mxyy.
Example: M12BD.
7. FDL does not come with GFCI outlet or handhole cover. These must be supplied by contractor or electrician.
8. Combination of tenon-top and slot mount includes extra handhole, DHH includes cover.
9. Plastic hand hole cover and base covers come standard with all poles. Items ship separately. Additional parts can be ordered as replacements.
10. Provides enhanced corrosion resistance. N/A with GALV.
11. Are when mill certifications are required.
12. Must add original order number. Not for replacement parts or post sales buyes, contact tech support or your sales teams.
13. Standard Lithonia Lighting architectural finish experience exactly from order to order, on a single project site. A common use case would be a multi-phase project with multiple construction.
Example: XWHXD-347PV

Accessories: Order as separate catalog number.

PL DT20	Plugs for ESX drillings
PL DT8	Plugs for DMxxAS drillings
FVD xxFT	Field Installed vibration damper (snake style)

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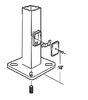
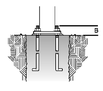
SSS Square Straight Steel Poles

BASE DETAIL



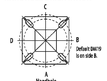




ANCHORAGE AND TEMPLATE INFORMATION

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Base plate thickness	Template description	Anchor bolt description	Bolt size (in.x in. x in.)	Anchor bolt and template description
4"C	8" – 9"	3.25" - 3.75"	8" - 8.25"	0.75"	ABTEMPLATE PS50004	AB18-0	3/4 x 18 x 3	AB35S-4C
4"G	8" – 9"	3.38" - 3.75"	8" - 8.25"	0.875"	ABTEMPLATE PS50004	AB30-0	3/4 x 30 x 3	AB35S-4G
5"	10" – 12"	3.5" - 4"	11"	1"	ABTEMPLATE PS50010	AB36-0	1 x 36 x 4	AB35S-5
6"	11" – 13"	4" - 4.50"	12.5"	1"	ABTEMPLATE PS50011	AB36-0	1 x 36 x 4	N/A

HANDHOLE ORIENTATION



Default DM19 is on side B.

IMPORTANT INSTALLATION NOTES:
- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.
- Bolt circles have +/- 1/2" tolerance.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

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ALBEMARLE COUNTY PUBLIC SCHOOLS

ACPS High School Center II

Albemarle County Public Schools

2775 Hydraulic Rd.
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: NAC AMH

QEA No.41911390 / 19168

ARB - SECOND SUBMISSION
10/02/2024

CUT SHEETS
W2 & SSS

ES100D

NOT FOR CONSTRUCTION

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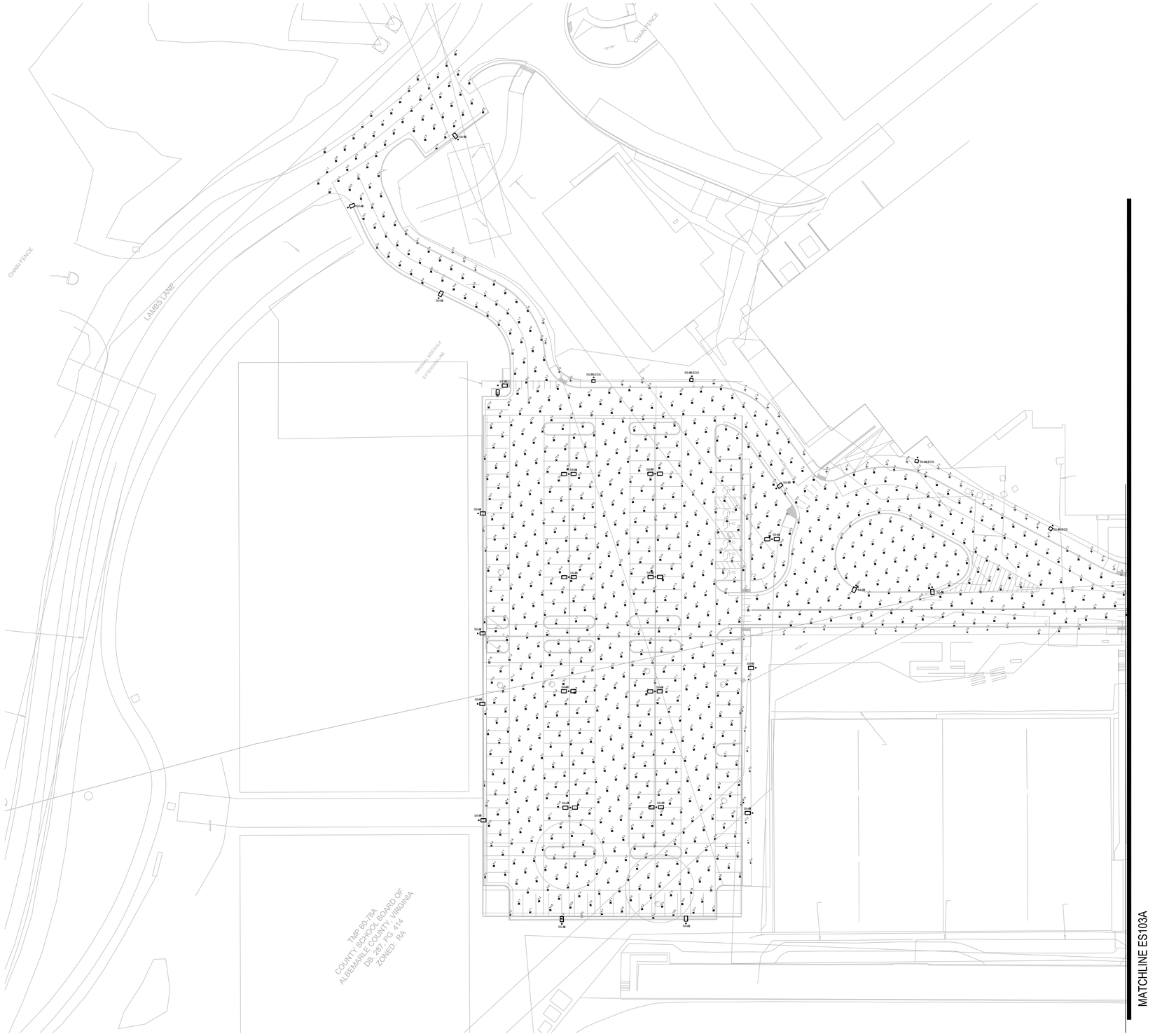

1 – ES101A SITE PLAN
SCALE: 1" = 30-0"

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Albemarle County Public Schools

ACPS High School Center II

Albemarle County Public Schools
2775 Hydraulic Rd.
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: NAC AMH

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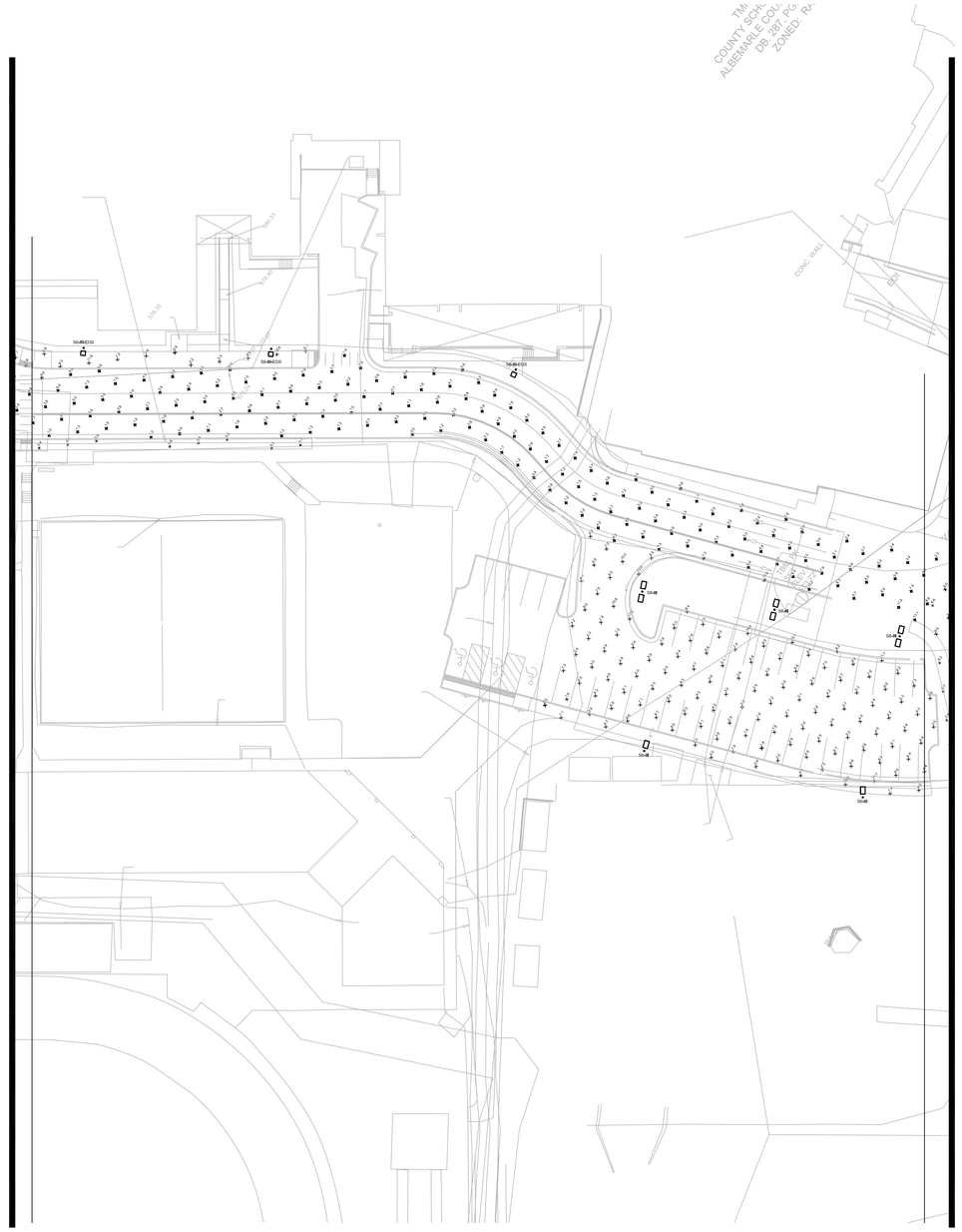
10/02/2024

SITE PLAN

ES101A


MATCHLINE ES103A
HYDRAULIC RD
STATE ROUTE 743
TBM: NAIL SET ELEV.= 606.87'
EOW
EOP
EOA
EOA
EOA
UG COMM FIBER
UG COMM FIBER
UG COMM FIBER



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Albemarle County Public Schools

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No	Date	Description

PROJECT MANAGER: NAC
AMH

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SITE PLAN

ES103A



VIEW - ALBEMARLE HS MAIN ENTRY TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY



VIEW - BIRD'S EYE VIEW OF HIGH SCHOOL CENTER FROM HYDRAULIC ROAD SIDE



VIEW - AHS CAMPUS ENTRANCE FROM HYDRAULIC ROAD TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY



VIEW - HIGH SCHOOL CENTER II MAIN ENTRY



VIEW - FROM HYDRAULIC ROAD TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY



VIEW - SOUTH CAMPUS ENTRANCE FROM HYDRAULIC ROAD, TOWARD HIGH SCHOOL CENTER II

NOTE:
REFER TO INCLUDED AUGUST 19, 2024 ARB PRESENTATION SLIDES FOR ADDITIONAL VIEWS FROM THE ENTRANCE CORRIDOR.

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Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: KS
DRAWN BY: KS

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PROJECT RENDERINGS

A100a

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VIEW - FROM INTERSECTION OF HYDRAULIC RD (ENTRANCE CORRIDOR) AND ALBEMARLE HS MAIN ENTRY DRIVE TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY - WITH PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



VIEW - FROM INTERSECTION OF HYDRAULIC RD (ENTRANCE CORRIDOR) AND ALBEMARLE HS MAIN ENTRY DRIVE TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY - WITHOUT PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



Campus Entry – Hydraulic Road – Current View



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY WITH PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II MAIN ENTRY WITHOUT PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



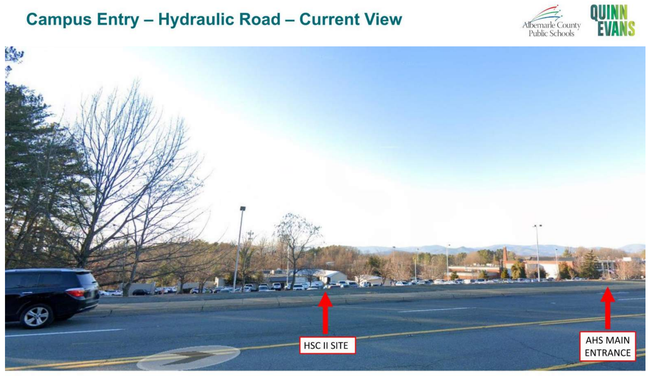
Campus Entry – Hydraulic Road – Current View



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II CLASSROOM WING WITH PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II MAIN CLASSROOM WING WITHOUT PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



Campus Entry – Hydraulic Road – Current View



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II CLASSROOM WING WITH PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN



VIEW - FROM HYDRAULIC RD (ENTRANCE CORRIDOR) TOWARDS HIGH SCHOOL CENTER II MAIN CLASSROOM WING WITHOUT PROPOSED AND EXISTING LANDSCAPE AND TREES SHOWN

Campus Entry – Hydraulic Road – Current View

IMAGES FROM 8.19.2024 ARB PRESENTATION SHOWING EXISTING CONDITIONS INCLUDED HERE FOR REFERENCE.

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Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262

STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: KS
DRAWN BY: EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PROJECT RENDERINGS

A100b

NEW SHEET

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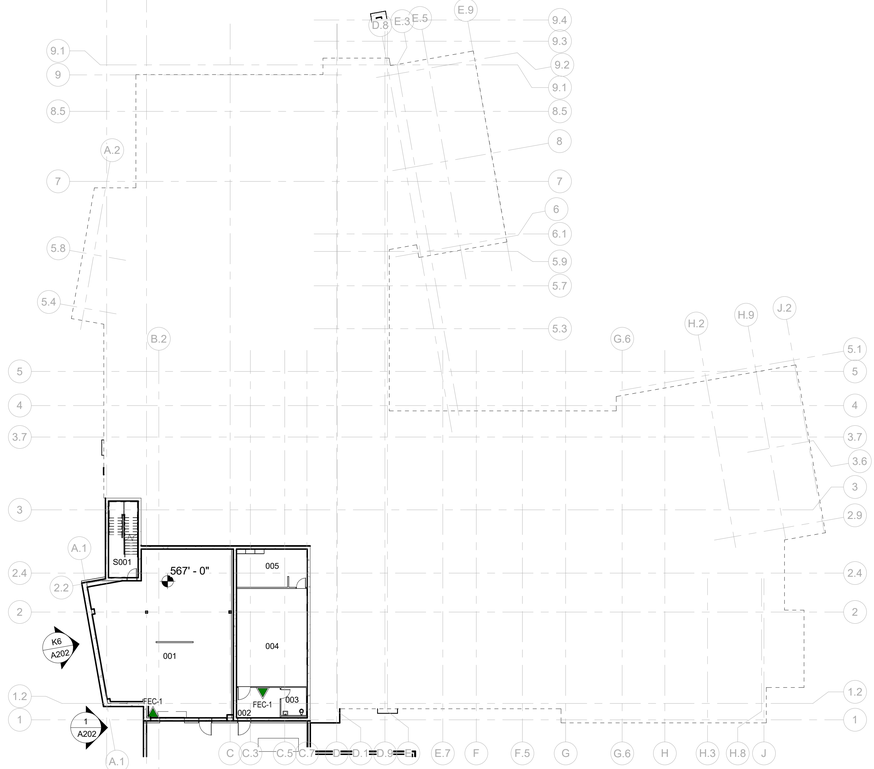

G1 OVERALL PLAN - BASEMENT
A101 1" = 20'-0"

PLAN NORTH



A1 OVERALL PLAN - LEVEL 1
A101 1" = 20'-0"

PLAN NORTH



A7 OVERALL PLAN - LEVEL 2
A101 1" = 20'-0"

PLAN NORTH

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NEW CONSTRUCTION HIGH SCHOOL CENTER II

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STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: KS
DRAWN: EW

QEA No.41911390

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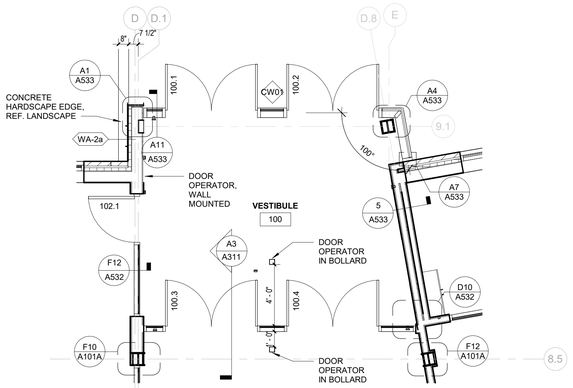
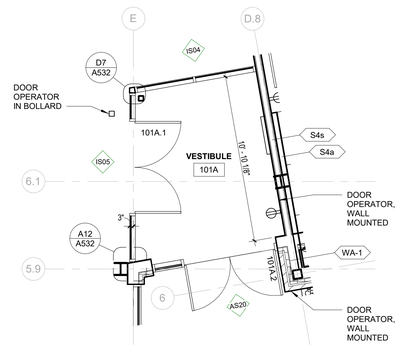
10/02/2024

OVERALL FLOOR PLANS

A101



K1 A101A LEVEL 1 - PLAN - ENLARGED - VESTIBULE 100
1/4" = 1'-0"



K5 A101A LEVEL 1 - PLAN - ENLARGED - VESTIBULE 116
1/4" = 1'-0"



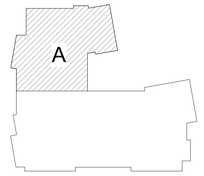
A1 A101A PARTIAL PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"

PLAN NORTH

KEYNOTES

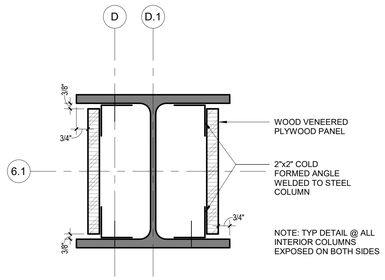
05.06	ROOF ACCESS LADDER
12.02	DIGITAL DISPLAY BY OWNER'S SEPARATE A/V CONTRACTOR. COORDINATE FINAL LOCATION WITH A/V CONTRACTOR. INSTALL BLOCKING PER TYPICAL BLOCKING DETAIL ON SHEET A001

KEY PLAN

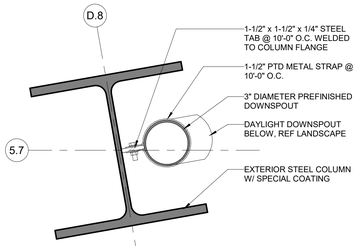


GENERAL NOTES

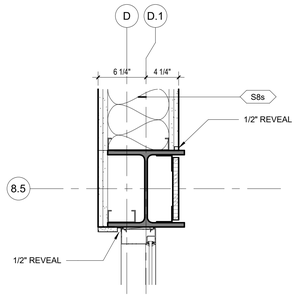
1. REFERENCE LIFE SAFETY PLANS FOR THE FIRE-RESISTANCE RATED ASSEMBLY LOCATIONS
2. WALLS ARE TYPE S4s UNLESS INDICATED OTHERWISE.
3. REFER TO SHEET A002 FOR SCHEDULES OF EQUIPMENT, SHELVING, APPLIANCES, ETC.



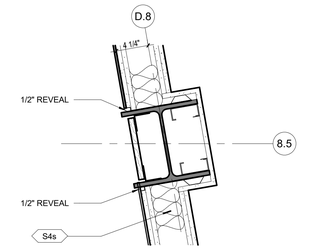
J10 A101A INTERIOR PLAN DETAIL
3" = 1'-0"



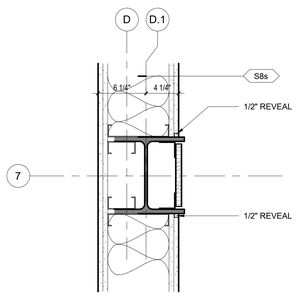
J12 A101A PLAN DETAIL - COLUMN AND DOWNSPOUT
3" = 1'-0"



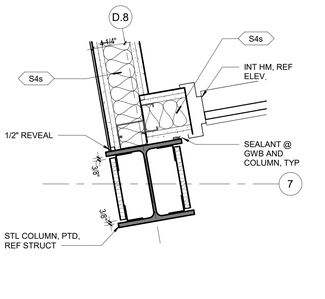
F10 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



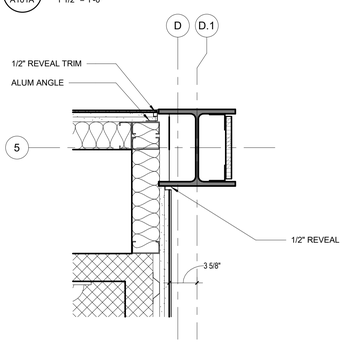
F12 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



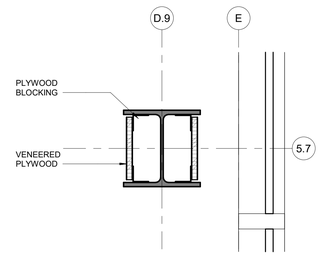
C10 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



C12 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



A10 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



A12 A101A INTERIOR PLAN DETAIL
1 1/2" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

NOT FOR CONSTRUCTION

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: KS
DRAWN: EW

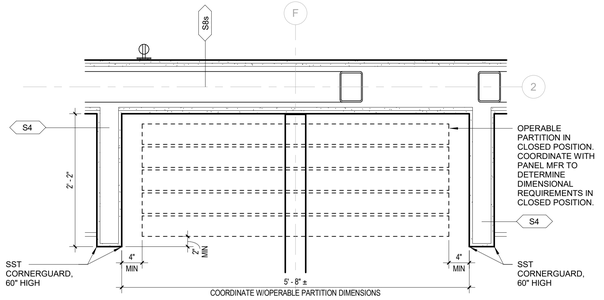
QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

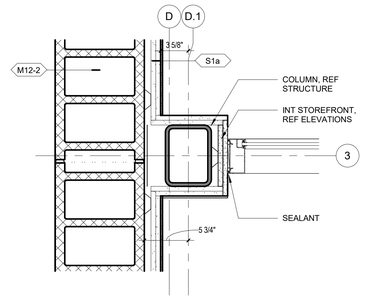
PARTIAL PLAN - LEVEL 1 - AREA A

A101A

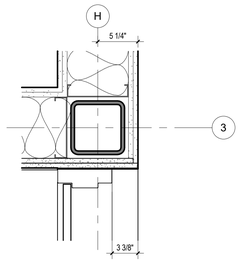
PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
PLOTTING DATE & TIME: 9/22/2024 4:33:08 PM



K1 A101B ENLARGED PLAN - OPERABLE PARTITION
1" = 1'-0"



K5 A101B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"

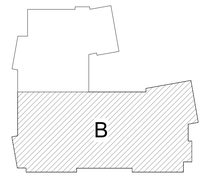


K7 A101B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"

KEYNOTES

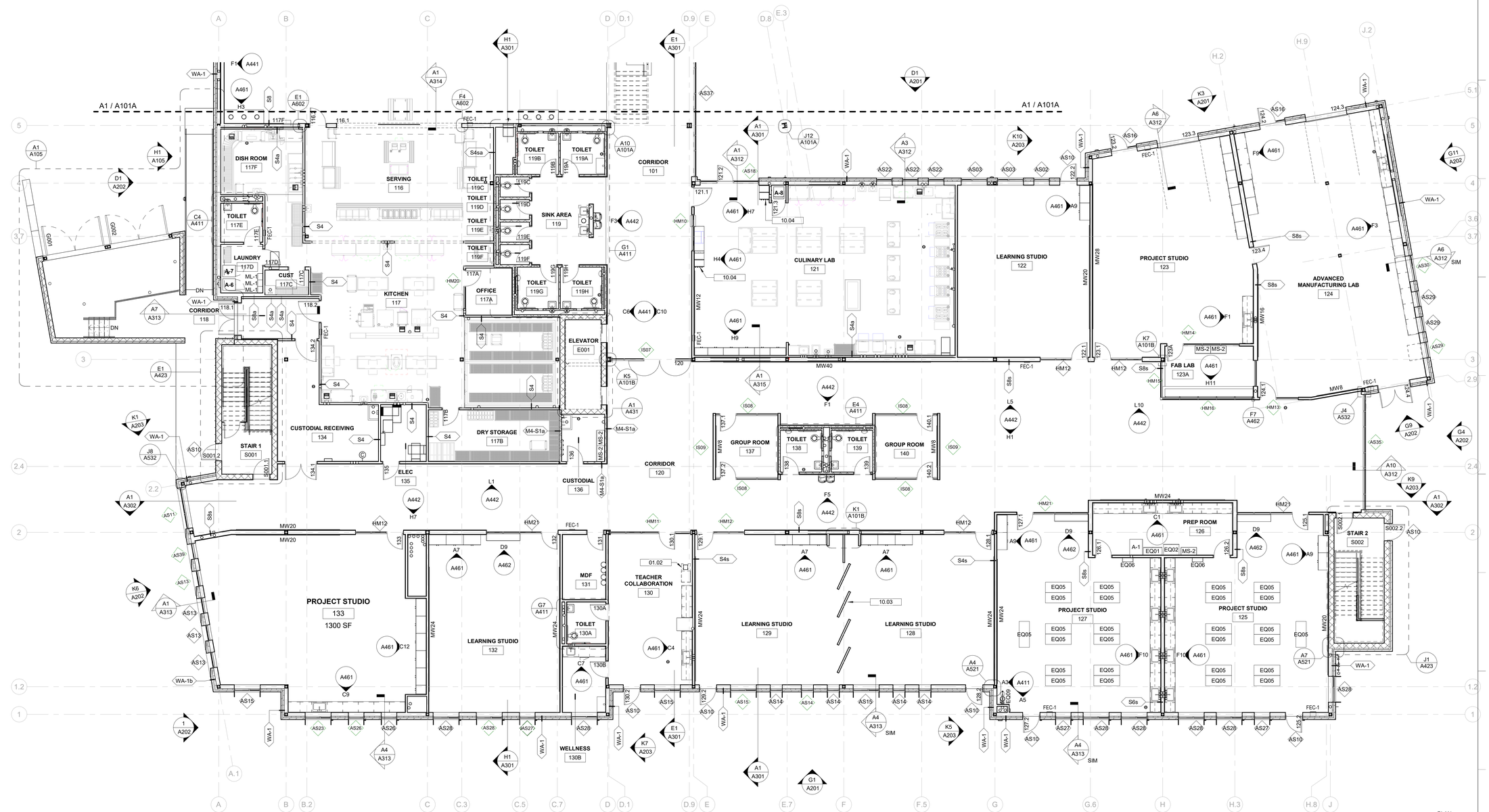
01.02	COPY MACHINE, N.I.C. PROVIDED BY OWNER
10.03	OPERABLE PARTITION
10.04	TA03 ROBE HOOKS MOUNTED TO SIDE OF CABINET, VERIFY EXACT MOUNTING PATTERN WITH ARCHITECT

KEY PLAN



GENERAL NOTES

1. REFERENCE LIFE SAFETY PLANS FOR THE FIRE-RESISTANCE RATED ASSEMBLY LOCATIONS
2. WALLS ARE TYPE S4s UNLESS INDICATED OTHERWISE.
3. REFER TO SHEET A002 FOR SCHEDULES OF EQUIPMENT, SHELVING, APPLIANCES, ETC.



A1 A101B PARTIAL PLAN - LEVEL 1 - AREA B
1/8" = 1'-0"

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No	Date	Description

PROJECT MANAGER: KS DRAWN: EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PARTIAL PLAN - LEVEL 1 - AREA B

A101B

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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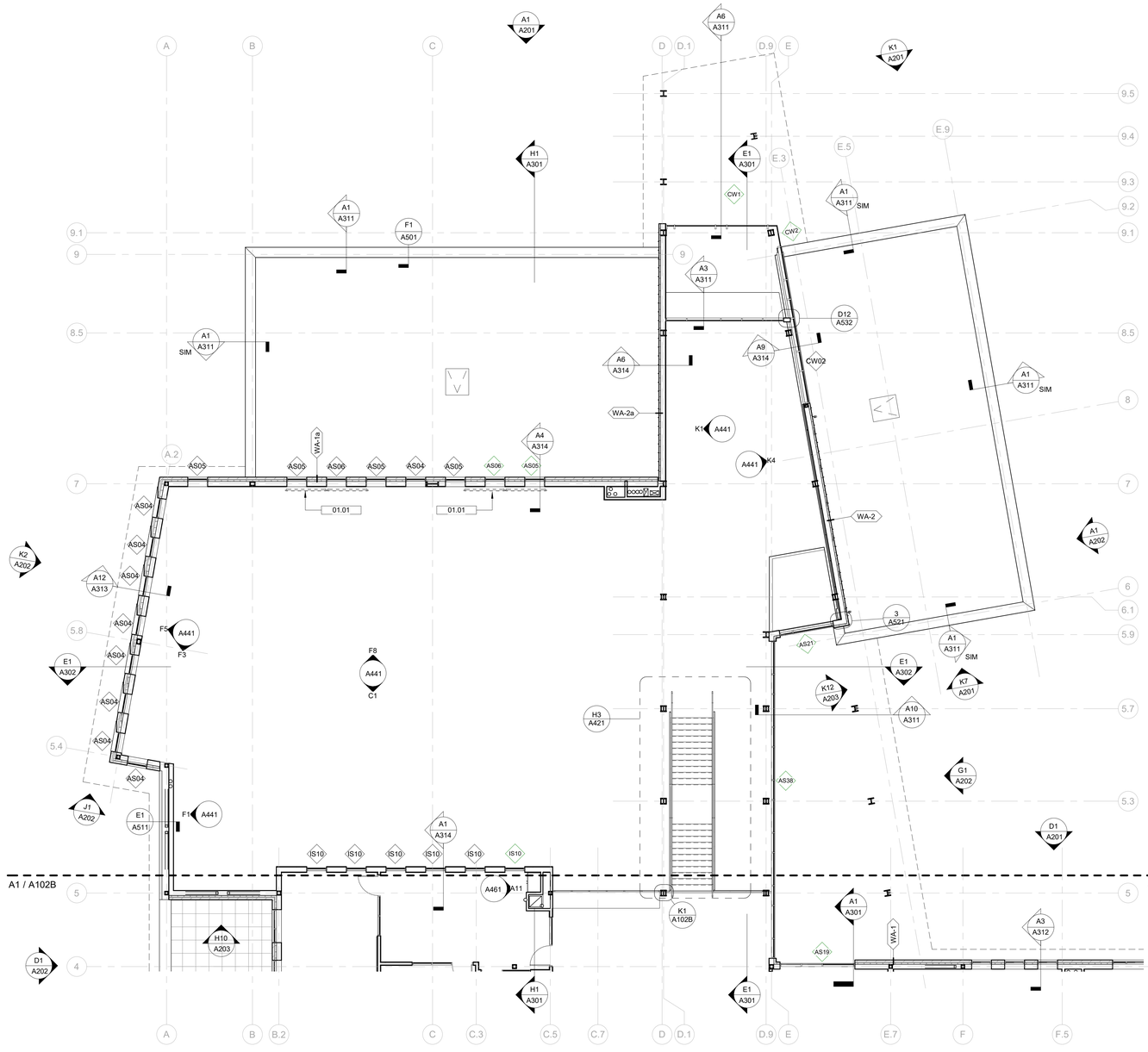
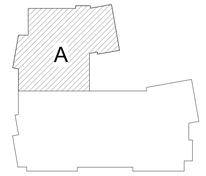


A1 A102A PARTIAL PLAN - LEVEL 2 - AREA A
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



GENERAL NOTES

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Albemarle County Public Schools

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Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: KS
DRAWN: EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PARTIAL PLAN - LEVEL 2 - AREA A

A102A

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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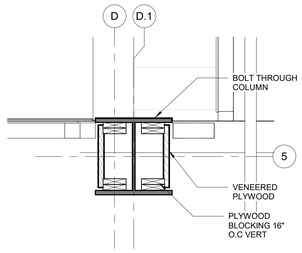
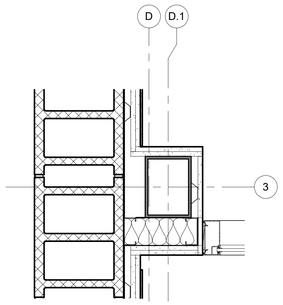
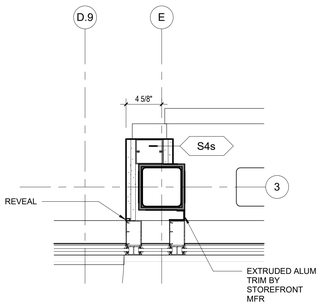


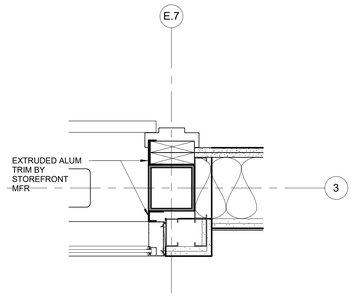
K1 A102B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



K3 A102B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



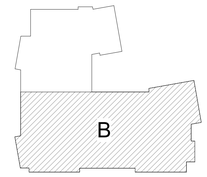
K5 A102B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



K7 A102B INTERIOR PLAN DETAIL
1 1/2" = 1'-0"

01.02	COPY MACHINE, N.I.C. PROVIDED BY OWNER
10.03	OPERABLE PARTITION
12.02	DIGITAL DISPLAY BY OWNER'S SEPARATE A/V CONTRACTOR. COORDINATE FINAL LOCATION WITH A/V CONTRACTOR, INSTALL BLOCKING PER TYPICAL BLOCKING DETAIL ON SHEET A001

KEY PLAN



GENERAL NOTES

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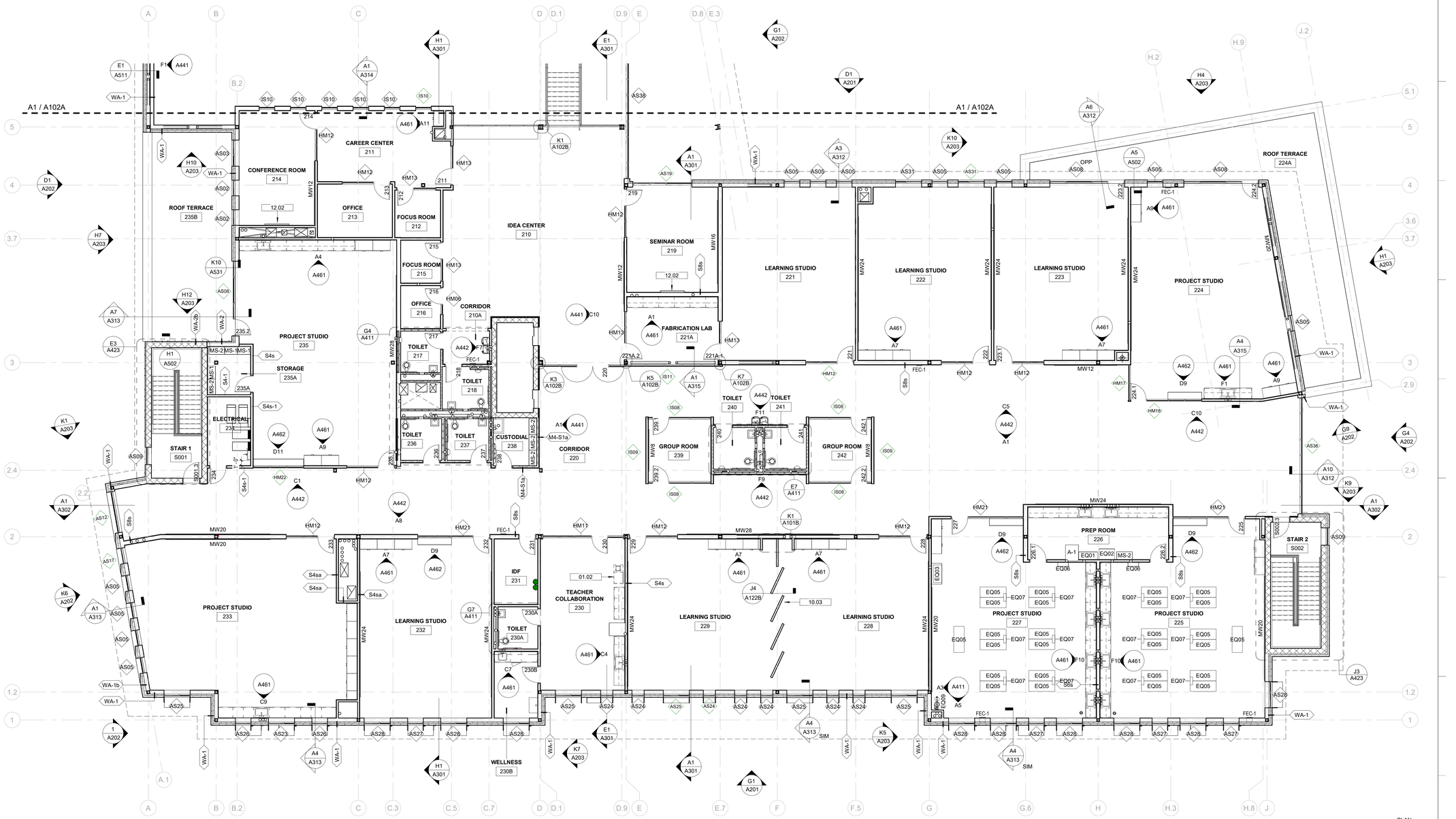
3. REFER TO SHEET A002 FOR SCHEDULES OF EQUIPMENT, SHELVING, APPLIANCES, ETC.



A1 A102B PARTIAL PLAN - LEVEL 2 - AREA B
1/8" = 1'-0"

PLAN NORTH

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

CONSTRUCTION

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

NOT FOR CONSTRUCTION

No	Date	Description

PROJECT MANAGER: KS
DRAWN: EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

PARTIAL PLAN - LEVEL 2 - AREA B

A102B

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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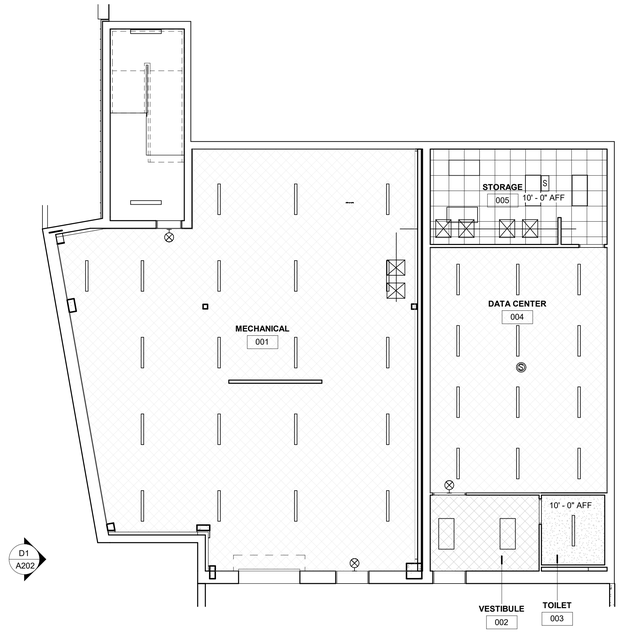
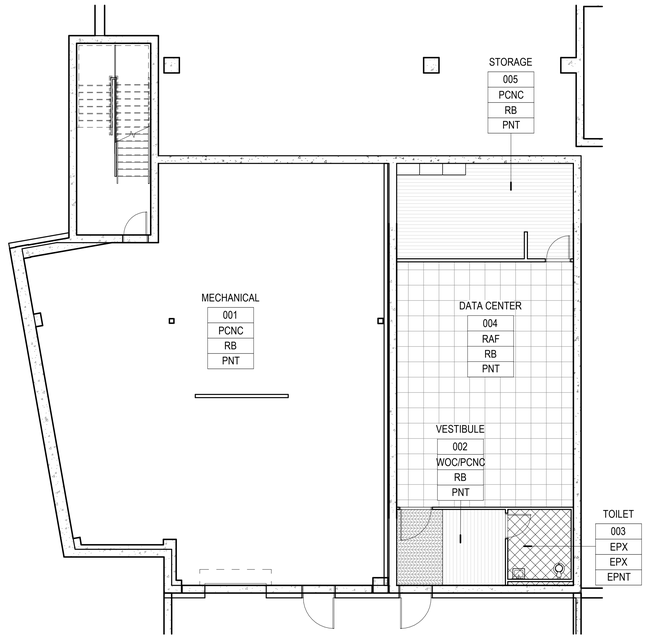
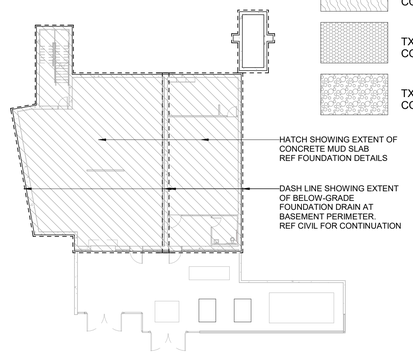


H1 A104 REFLECTED CEILING PLAN - BASEMENT
1/8" = 1'-0"



H5 A104 FINISH PLAN - BASEMENT
1/8" = 1'-0"



H9 A104 BASEMENT KEY PLAN - PERIMETER DRAINS & MUD SLAB EXTENTS
1" = 20'-0"

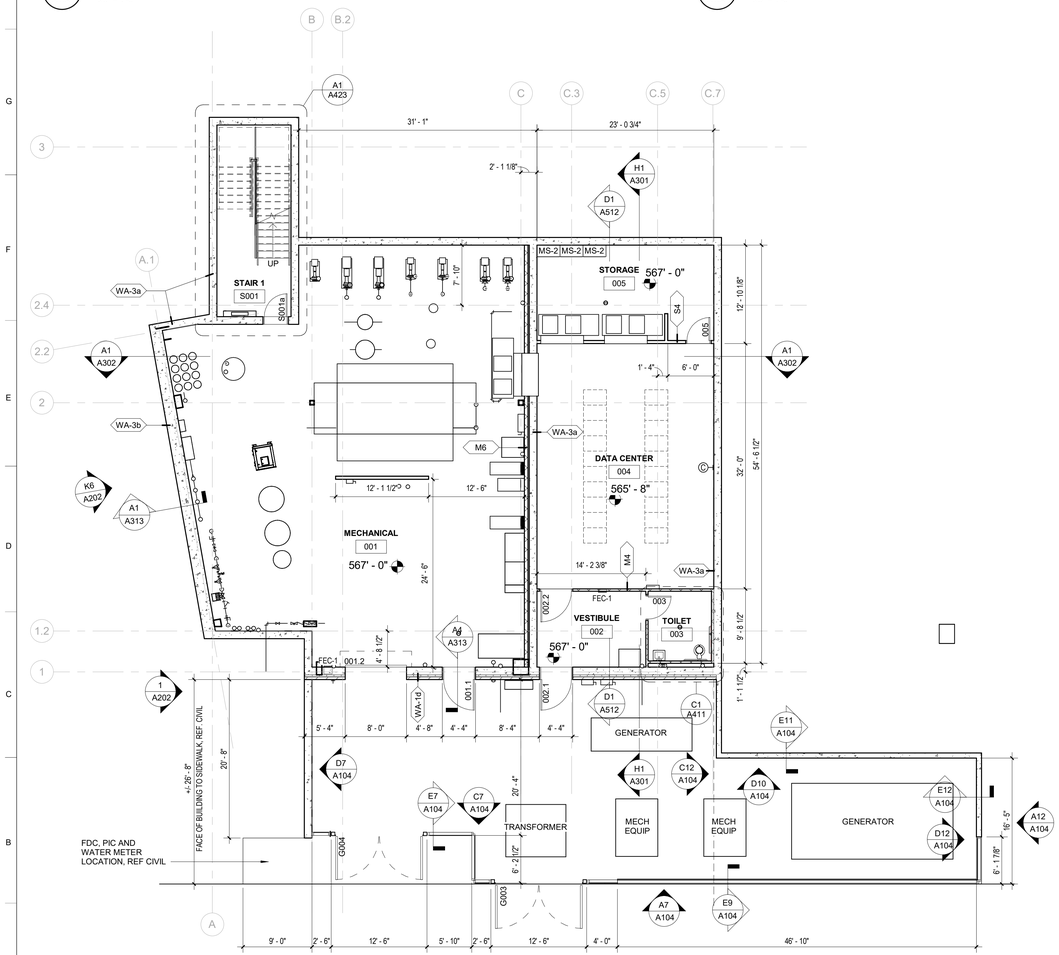
FINISH TAG LEGEND

- EPX-1 EPOXY
- EPX-2 EPOXY
- POLISHED CONCRETE
- EXPOSED AGGREGATE CONCRETE
- TXCP-01 TEXTILE COMPOSITE FLOORING
- TXCP-02 TEXTILE COMPOSITE FLOORING
- TXCP-03 TEXTILE COMPOSITE FLOORING
- TCPX-4 TEXTILE COMPOSITE FLOORING
- LIN-1 RESILIENT SHEET FLOORING
- LIN-2 RESILIENT SHEET FLOORING
- LIN-3 RESILIENT SHEET FLOORING
- WOC WALK-OFF CARPET
- SDT STATIC DISSIPATIVE TILE
- RAF RAISED FLOOR ACCESS SYSTEM
- CONTROL JOINT

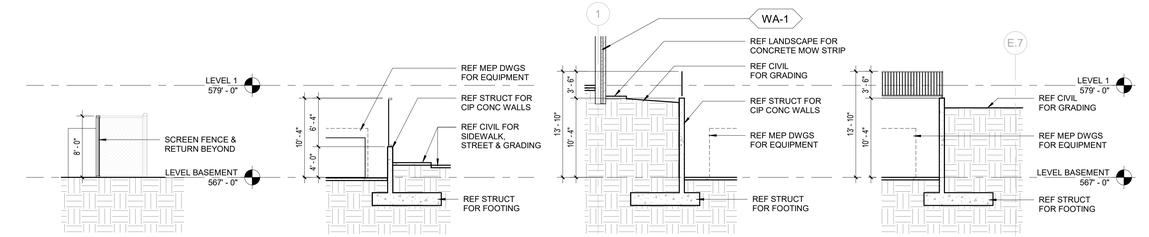
FINISH TAG LEGEND

ROOM NAME
ROOM #
FLOOR FINISH
BASE FINISH
WALL FINISH

REFER TO PLAN NOTES FOR ACCENT AREAS AND OTHER SPECIFIC INFORMATION.



A1 A104 FLOOR PLAN - BASEMENT
1/8" = 1'-0"

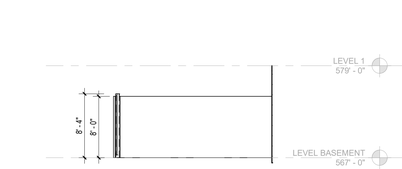


E7 A104 SECTION - SCREEN FENCE
1/8" = 1'-0"

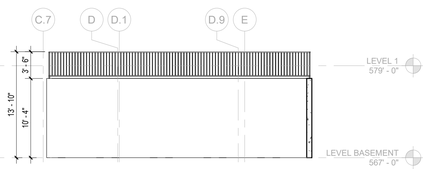
E9 A104 SECTION - SCREEN WALL
1/8" = 1'-0"

E11 A104 SECTION - RETAINING WALL 2
1/8" = 1'-0"

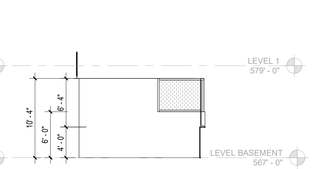
E12 A104 SECTION - RETAINING WALL 3
1/8" = 1'-0"



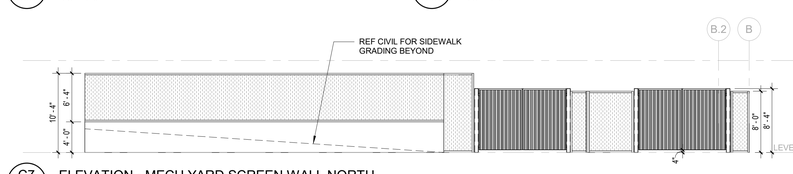
D7 A104 MECH YARD RETAINING WALL 1
1/8" = 1'-0"



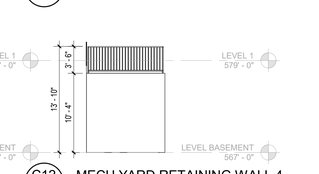
D10 A104 MECH YARD RETAINING WALL 2
1/8" = 1'-0"



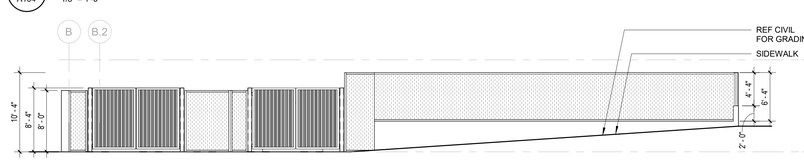
D12 A104 MECH YARD RETAINING WALL 3
1/8" = 1'-0"



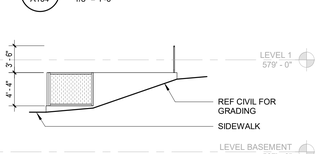
C7 A104 ELEVATION - MECH YARD SCREEN WALL NORTH
1/8" = 1'-0"



C12 A104 MECH YARD RETAINING WALL 4
1/8" = 1'-0"



A7 A104 ELEVATION - MECH YARD SCREEN WALL SOUTH
1/8" = 1'-0"



A12 A104 ELEVATION - MECH YARD SCREEN WALL EAST
1/8" = 1'-0"

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Albemarle County Public Schools

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No	Date	Description

PROJECT MANAGER: KS
DRAWN: EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

BASEMENT PLAN, RCP, FINISH PLAN

A104

NOT FOR CONSTRUCTION

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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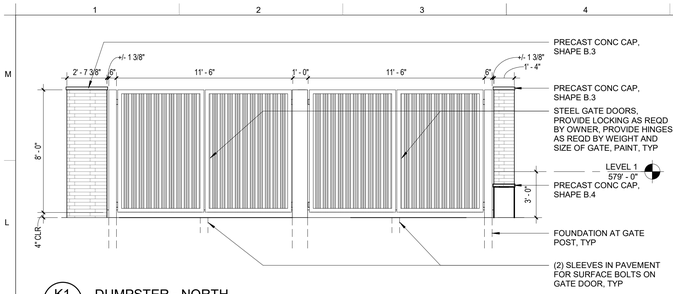
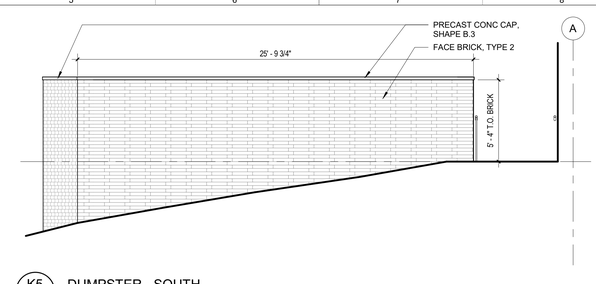
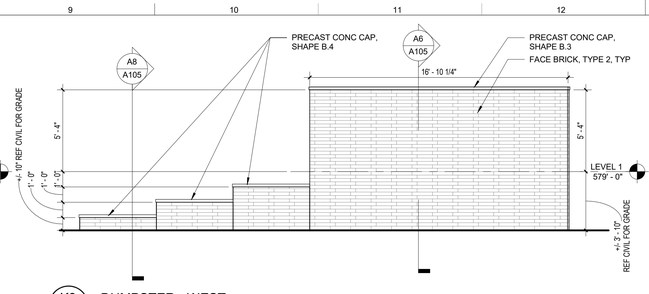


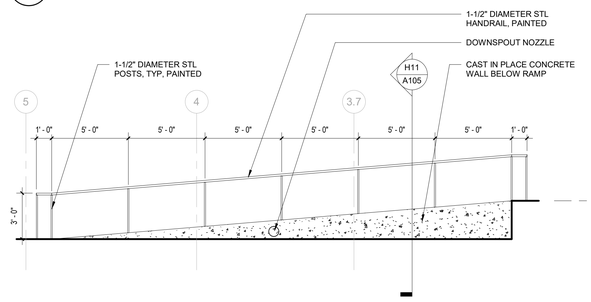
K1 A105 DUMPSTER - NORTH
1/4" = 1'-0"



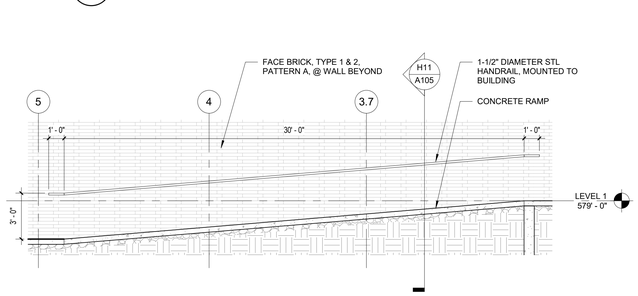
K5 A105 DUMPSTER - SOUTH
1/4" = 1'-0"



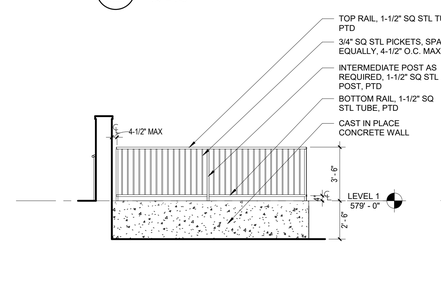
K9 A105 DUMPSTER - WEST
1/4" = 1'-0"



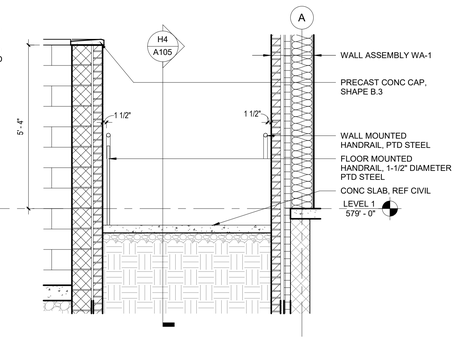
H1 A105 ELEVATION - RAMP
1/4" = 1'-0"



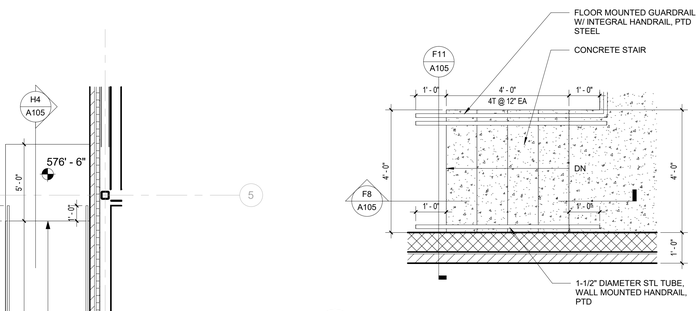
H4 A105 SECTION LONGITUDINAL - RAMP
1/4" = 1'-0"



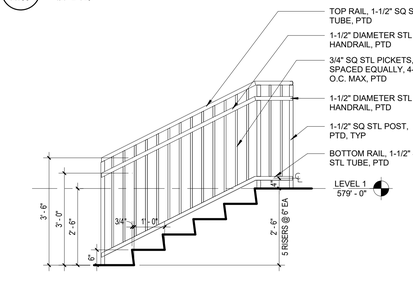
H8 A105 ELEVATION - DUMPSTER GUARDRAIL
1/4" = 1'-0"



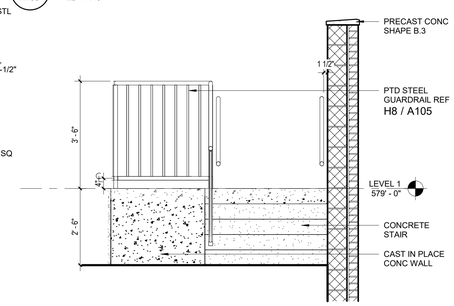
H11 A105 SECTION TRANSVERSE - RAMP
1/2" = 1'-0"



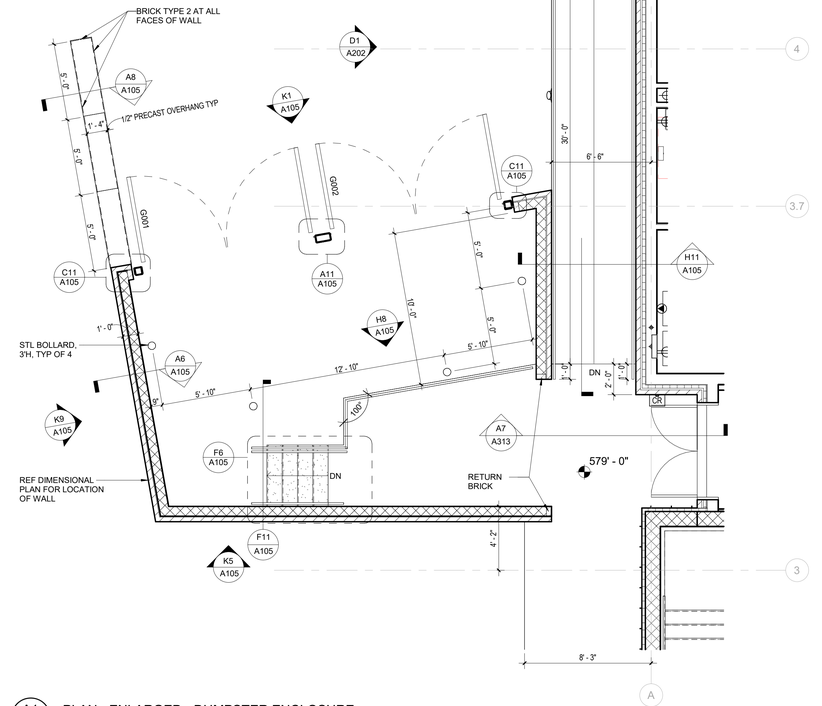
F6 A105 ENLARGED PLAN - STAIR
1/2" = 1'-0"



F8 A105 SECTION - STAIR
1/2" = 1'-0"



F11 A105 SECTION STAIR - DUMPSTER
1/2" = 1'-0"


BRICK TYPE 2 AT ALL FACES OF WALL
A8
A105
1/2" PRECAST OVERHANG TYP
1' - 4"
K1
A105
D1
A202
GM01
GM02
C11
A105
A11
A105
C11
A105
H11
A105
H8
A105
STL BOLLARD, 3'H, TYP OF 4
A6
A105
K9
A105
F6
A105
REF DIMENSIONAL PLAN FOR LOCATION OF WALL
DN
RETURN BRICK
A7
A313
579' - 0"
F11
A105
K5
A105
H4
A105
576' - 6"
H1
A105
D1
A202
C11
A105
H11
A105
F8
A105
DN
OR
4' - 2"
8' - 3"
30' - 0"
6' - 6"
10' - 0"
17' - 10"
5' - 10"
5' - 10"
5' - 0"
5' - 0"
5' - 0"
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2' - 0"
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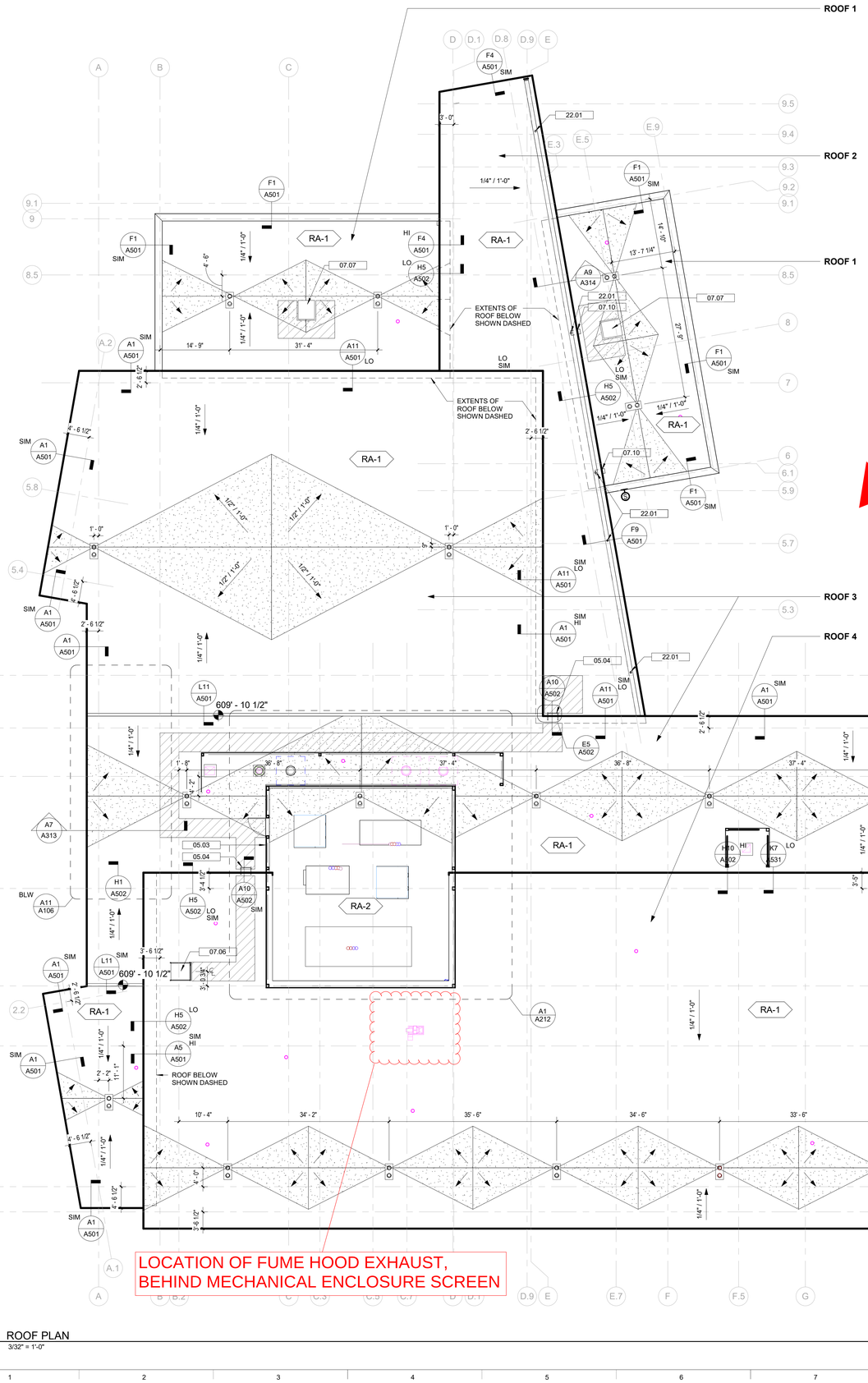
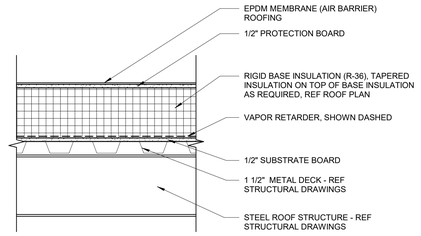
1' - 0"
4"
4"
4

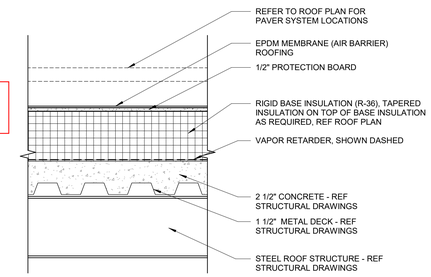


A1 A106 ROOF PLAN
3/32" = 1'-0"

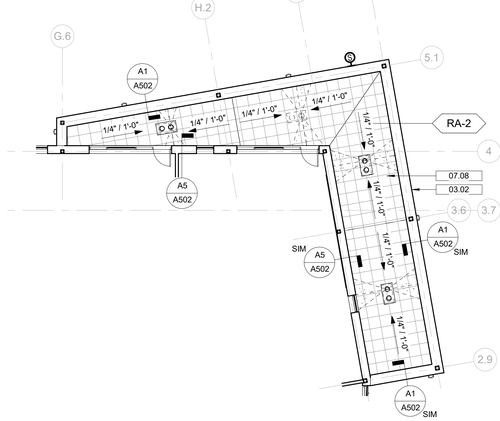
ANGLE OF VIEW FROM ENRANCE CORRIDOR



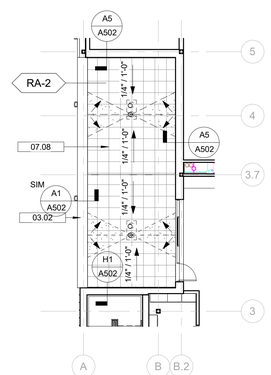
K9 A106 ROOF ASSEMBLY RA-1
1 1/2" = 1'-0"



H9 A106 ROOF ASSEMBLY RA-2
1 1/2" = 1'-0"



D11 A106 ROOF PLAN - EAST ROOF TERRACE
3/32" = 1'-0"



A11 A106 ROOF PLAN - WEST ROOF TERRACE
3/32" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. PROVIDE SHEET METAL STRAPPING ON FACE OF CFMF STUDS AT LOCATIONS WHERE ROOF MEMBRANE TERMINATES ON VERTICAL FACE.

ROOF LEGEND

- R# — ROOF ASSEMBLY TYPE
- DIRECTION OF ROOF SLOPE - MINIMUM SLOPE 1/4" PER 1'-0"
- CRICKET (TAPERED INSULATION, MINIMUM SLOPE 1/2" PER 1'-0") PROVIDE AT ALL MECHANICAL, CURBS, AND ROOF MOUNTED EQUIPMENT
- ROOF DRAIN (W/ SECONDARY OVERFLOW) - REF PLUMBING DRAWINGS
- ROOF WALKWAY PAD - REF SPECIFICATIONS
- MECHANICAL AND PLUMBING EQUIPMENT / ROOF PENETRATIONS - REF MECHANICAL AND PLUMBING DRAWINGS (FLASHING PER ROOF MFR RECOMMENDATIONS)

03.02	PRECAST CONCRETE CAP, REF CUSTOM SHAPES
05.03	PREFIN. PERFORATED METAL PANEL SCREEN WALL
05.04	METAL EXTERIOR ROOF LADDER
07.06	METAL ROOF HATCH W/ SAFETY RAILING
07.07	METAL ROOF HATCH
07.08	CONCRETE PEDESTAL PAVER SYSTEM
07.10	SPLASH BLOCK
22.01	ROOF DRAIN AT GUTTER, REF PLUMBING

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 010767
10/08/2024
ARCHITECT

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100
Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: KS
DRAWN BY: AJ

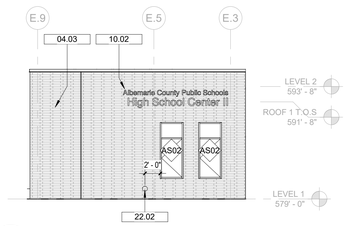
QEA No.41911390

BID DOCUMENTS
10/8/2024

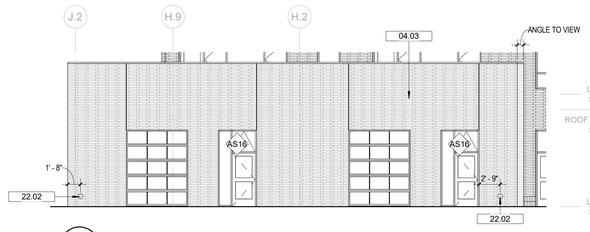
ROOF PLAN

A106

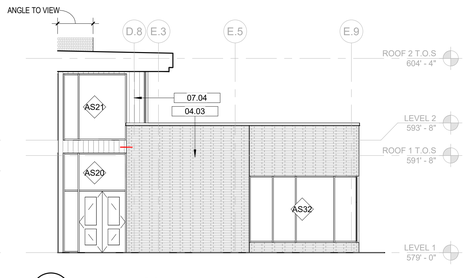
PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
PLOTTING DATE & TIME: 10/2/2024 2:45:02 PM



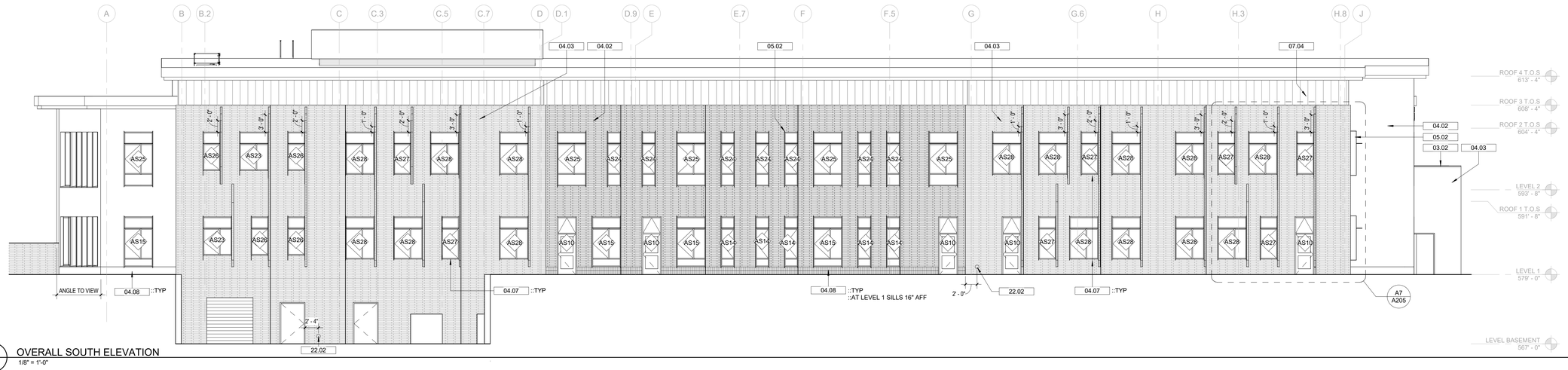
K1 A201 PARTIAL NORTH ELEVATION A
1/8" = 1'-0"



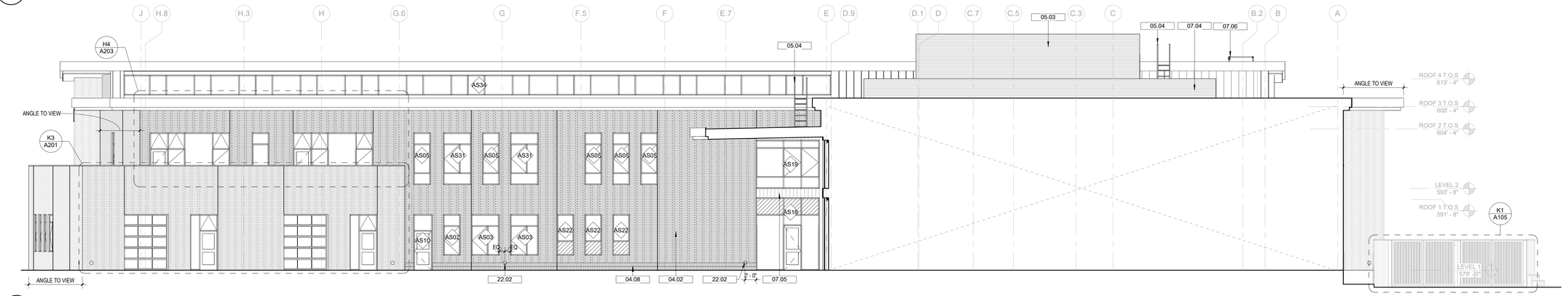
K3 A201 PARTIAL NORTH ELEVATION B
1/8" = 1'-0"



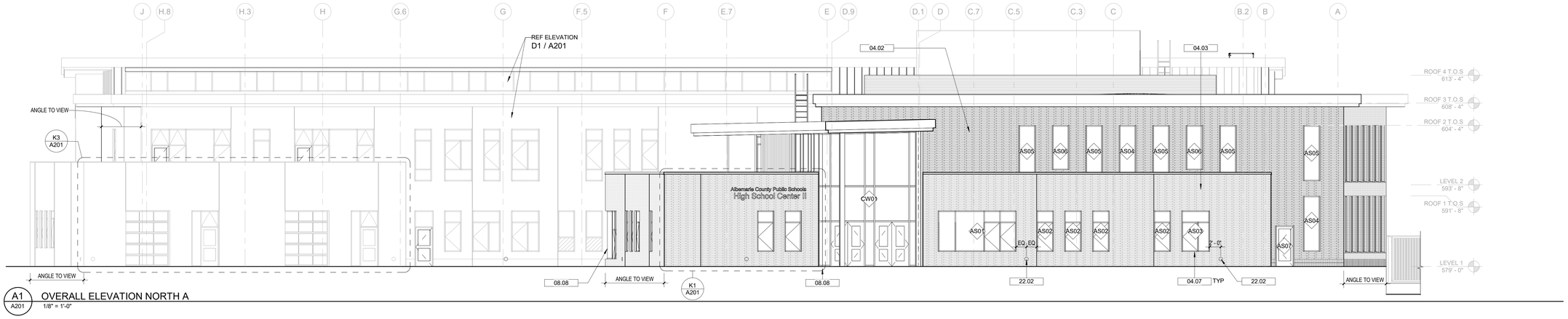
K7 A201 PARTIAL SOUTH ELEVATION A
1/8" = 1'-0"



G1 A201 OVERALL SOUTH ELEVATION
1/8" = 1'-0"



D1 A201 OVERALL ELEVATION NORTH B
1/8" = 1'-0"



A1 A201 OVERALL ELEVATION NORTH A
1/8" = 1'-0"

KEYNOTES

03.02	PRECAST CONCRETE CAP, REF CUSTOM SHAPES
04.02	FACE BRICK 3
04.03	FACE BRICK 1 & 2, PATTERNED
04.07	ROW LOCK BRICK SILL SHAPE E, BRICK TYPE 2 AT PATTERN OR TYPE 3
04.08	ROW LOCK BRICK SILL SHAPE D, BRICK TYPE 3
05.02	PERFORATED METAL PANEL SOLAR SHADE
05.03	PREFIN. PERFORATED METAL PANEL SCREEN WALL
05.04	METAL EXTERIOR ROOF LADDER
07.04	PREFIN. METAL PANEL SYSTEM, STANDING SEAM
07.05	PREFIN. METAL PANEL SYSTEM, FLAT LOCK SEAM
07.06	METAL ROOF HATCH W/ SAFETY RAILING
08.08	BUTT-GLAZED CORNER - REF CURTAINWALL & STOREFRONT DETAILS
10.02	DIMENSIONAL LETTER SIGNAGE, 8" AND 12" TALL LETTERS, FINAL TEXT PROVIDED BY OWNER
22.02	LAMBS TONGUE DOWNSPOUT NOZZLE, CENTERLINE AT 16" AFF, REF PLUMBING

GENERAL NOTES

1. DIMENSION ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. REFER TO SHEET A203 FOR BRICK PATTERN DETAILS.
3. REFER TO SHEET A205 FOR SUNSHADE DETAILS.

GLASS FILM LEGEND

NOTE: REF SPEC SECTION 088000 FOR GLASS FILM PRODUCTS

- GLASS FILM STYLE 1 (GF-1)
- GLASS FILM STYLE 2 (GF-2)
- GLASS FILM STYLE 3 (GF-3)

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

NOT FOR CONSTRUCTION

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

PROJECT MANAGER: KS
DRAWN: BG, AJ, EW

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

BUILDING ELEVATIONS

A201

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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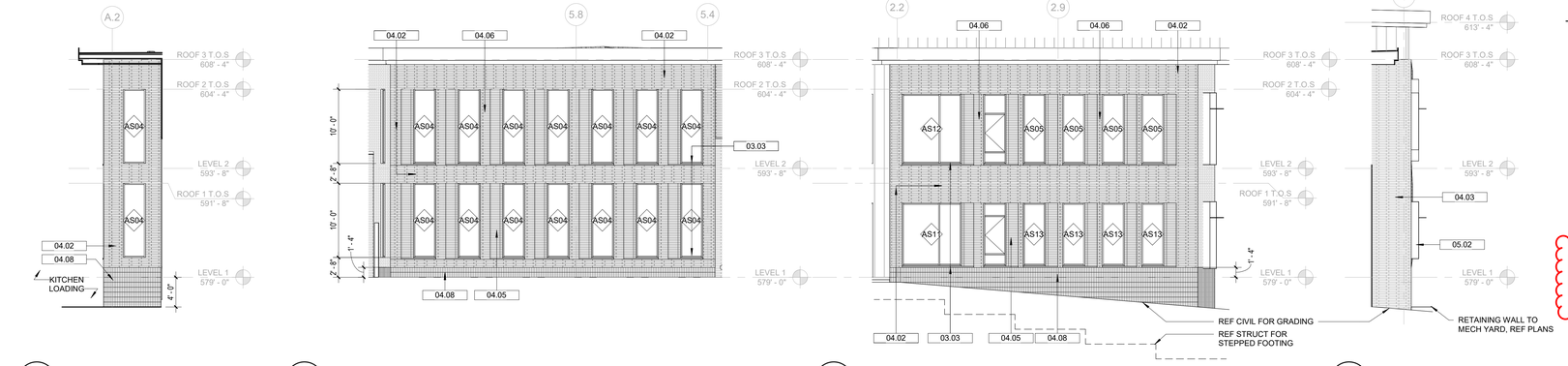


J1 A202 PARTIAL NORTH ELEVATION C
1/8" = 1'-0"

K2 A202 PARTIAL WEST ELEVATION A
1/8" = 1'-0"

K6 A202 PARTIAL WEST ELEVATION B
1/8" = 1'-0"

1 A202 PARTIAL ELEV WEST - CLASSROOMS 1
1/8" = 1'-0"

KEYNOTES

03.02	PRECAST CONCRETE CAP, REF CUSTOM SHAPES
03.03	PRECAST CONCRETE SILL, REF CUSTOM SHAPES
04.02	FACE BRICK 3
04.03	FACE BRICK 1 & 2, PATTERNED
04.05	FACE BRICK 4, STACKED BOND
04.06	FACE BRICK 3, ALTERNATING LOCK AT CORNER, REF DETAIL D7/A531
04.08	ROW LOCK BRICK SILL SHAPE D, BRICK TYPE 3
05.02	PERFORATED METAL PANEL SOLAR SHADE
05.03	PREFIN. PERFORATED METAL PANEL SCREEN WALL
05.04	METAL EXTERIOR ROOF LADDER
07.04	PREFIN. METAL PANEL SYSTEM, STANDING SEAM
07.05	PREFIN. METAL PANEL SYSTEM, FLAT LOCK SEAM
07.06	METAL ROOF HATCH W/ SAFETY RAILING
08.08	BUTT-GLAZED CORNER - REF CURTAINWALL & STOREFRONT DETAILS
10.02	DIMENSIONAL LETTER SIGNAGE, 8" AND 12" TALL LETTERS, FINAL TEXT PROVIDED BY OWNER
22.02	LAMBS TONGUE DOWNSPOUT NOZZLE, CENTERLINE AT 16" AFF, REF PLUMBING

NOTE:
VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED

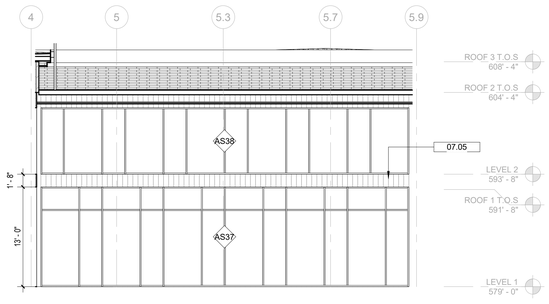
GENERAL NOTES

1. DIMENSION ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. REFER TO SHEET A203 FOR BRICK PATTERN DETAILS.
3. REFER TO SHEET A205 FOR SUNSHADE DETAILS.

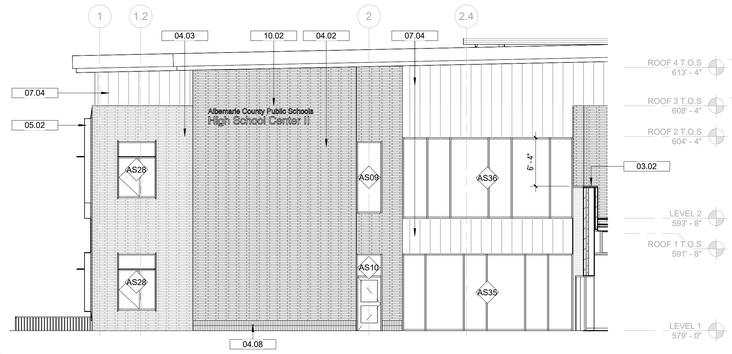
GLASS FILM LEGEND

NOTE: REF SPEC SECTION 088000 FOR GLASS FILM PRODUCTS

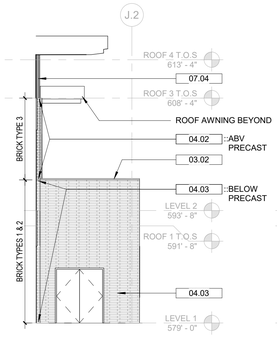
- GLASS FILM STYLE 1 (GF-1)
- GLASS FILM STYLE 2 (GF-2)
- GLASS FILM STYLE 3 (GF-3)



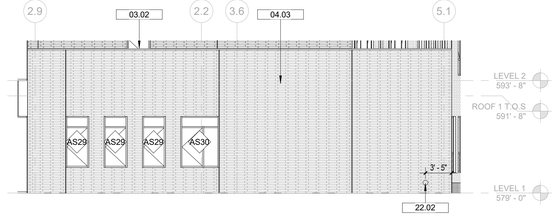
G1 A202 PARTIAL ELEVATION EAST A
1/8" = 1'-0"



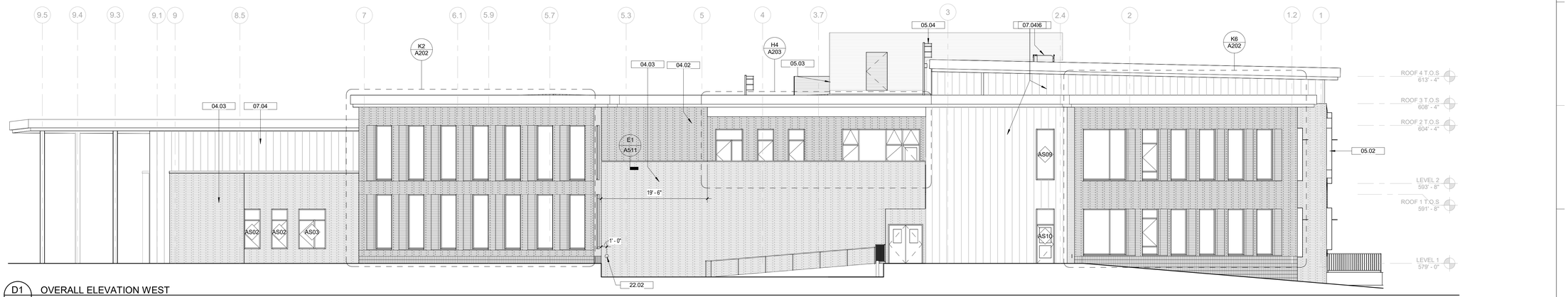
G4 A202 PARTIAL ELEVATION EAST B
1/8" = 1'-0"



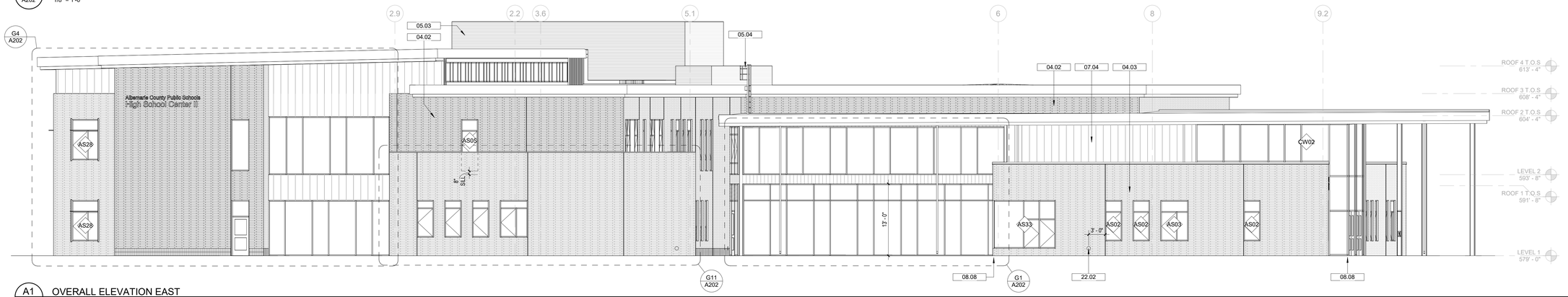
G9 A202 PARTIAL ELEV - MFR LAB SOUTH
1/8" = 1'-0"



G11 A202 PARTIAL ELEV - MFR LAB EAST
1/8" = 1'-0"



D1 A202 OVERALL ELEVATION WEST
1/8" = 1'-0"



A1 A202 OVERALL ELEVATION EAST
1/8" = 1'-0"

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
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Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description

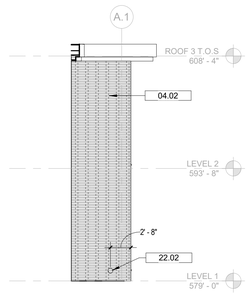
PROJECT MANAGER: KS
DRAWN: BG, AJ, EW

QEA No.41911390

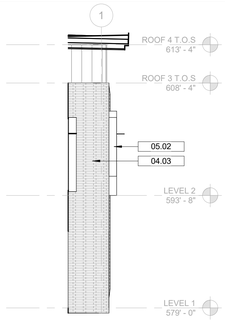
ARB - SECOND SUBMISSION 10/02/2024

BUILDING ELEVATIONS

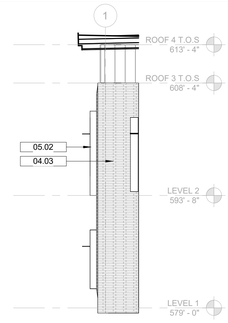
A202



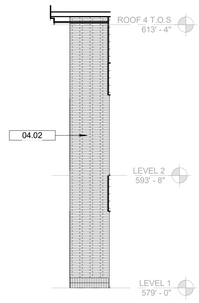
K1 A203 PARTIAL ELEV NORTH - LOADING
1/8" = 1'-0"



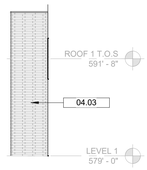
K5 A203 PARTIAL ELEV WEST - CLASROOMS 2
1/8" = 1'-0"



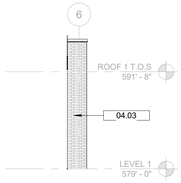
K7 A203 PARTIAL ELEV WEST - CLASSROOMS 3
1/8" = 1'-0"



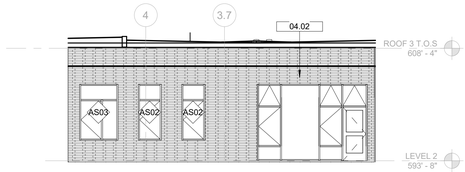
K9 A203 PARTIAL ELEV NORTH - STAIR 2
1/8" = 1'-0"



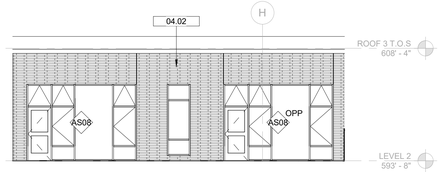
K10 A203 PARTIAL ELEV WEST - COURTYARD
1/8" = 1'-0"



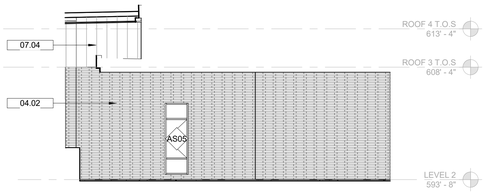
K12 A203 PARTIAL ELEV EAST - COURTYARD
1/8" = 1'-0"



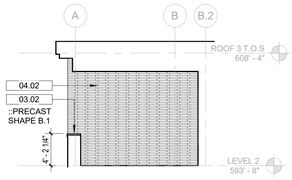
H7 A203 PARTIAL ELEV WEST - WEST PORCH
1/8" = 1'-0"



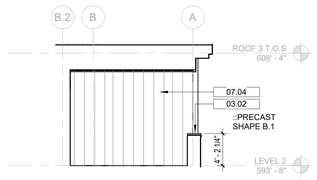
H4 A203 PARTIAL ELEV NORTH - EAST PORCH
1/8" = 1'-0"



H1 A203 PARTIAL ELEV EAST - EAST PORCH
1/8" = 1'-0"



H10 A203 PARTIAL ELEV NORTH - WEST PORCH
1/8" = 1'-0"



H12 A203 PARTIAL ELEV SOUTH - WEST PORCH
1/8" = 1'-0"

KEYNOTES

03.02	PRECAST CONCRETE CAP, REF CUSTOM SHAPES
04.02	FACE BRICK 3
04.03	FACE BRICK 1 & 2, PATTERNED
05.02	PERFORATED METAL PANEL SOLAR SHADE
07.04	PREFIN. METAL PANEL SYSTEM, STANDING SEAM
22.02	LAMBS TONGUE DOWNSPOUT NOZZLE, CENTERLINE AT 16" AFF, REF PLUMBING

NOTE:
VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED

GENERAL NOTES

1. DIMENSION ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. REFER TO SHEET A203 FOR BRICK PATTERN DETAILS.
3. REFER TO SHEET A205 FOR SUNSHADE DETAILS.

GLASS FILM LEGEND

NOTE: REF SPEC SECTION 088000 FOR GLASS FILM PRODUCTS

- GLASS FILM STYLE 1 (GF-1)
- GLASS FILM STYLE 2 (GF-2)
- GLASS FILM STYLE 3 (GF-3)

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CONSTRUCTION

Albemarle County Public Schools

NEW CONSTRUCTION HIGH SCHOOL CENTER II

IFB No. 2025-IFB-1007262
STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools
2775 Hydraulic Rd,
Charlottesville, VA 22901

NOT FOR CONSTRUCTION

No	Date	Description

PROJECT MANAGER: KS
DRAWN: BG

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

BUILDING ELEVATIONS

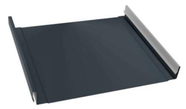
A203

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
PLOTTING DATE & TIME: 9/22/2024 4:34:16 PM

METAL PANEL



FLUSH-SEAM PANEL
SIZE & PATTERNS: 12"
COLOR
DARK BRONZE



STANDING SEAM PANEL
SIZE & PATTERNS: 16"
COLOR
DARK BRONZE

ALUM. SOLAR SHADES



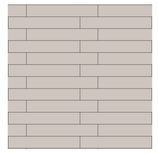
COLOR
ORANGE (TBD)

SIZE & PATTERNS: 12" VERTICAL
24" HORIZONTAL

FIELD BRICK



COLOR 1
ORANGE-RED



COLOR 2
LIGHT GRAY



COLOR 3
DARK GRAY



COLOR 4
BUFF-TAN

SIZE & PATTERNS: AMBASSADOR, MODULAR
1/4 RUNNING BOND (FIELD), SOLDIER (BASE), STACKED (JAMBS)

METAL ROOF EDGE



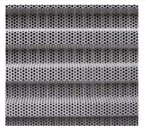
COLOR
DARK BRONZE

ALUM. STOREFRONT FRAMES



COLOR
DARK BRONZE

ROOF TOP EQUIPMENT SCREEN





COLOR
DARK BRONZE

ALBEMARLE HIGH SCHOOL MATERIALS









F11 / A204 BRICK PATTERN ELEVATION KEY NORTH
1/16" = 1'-0"

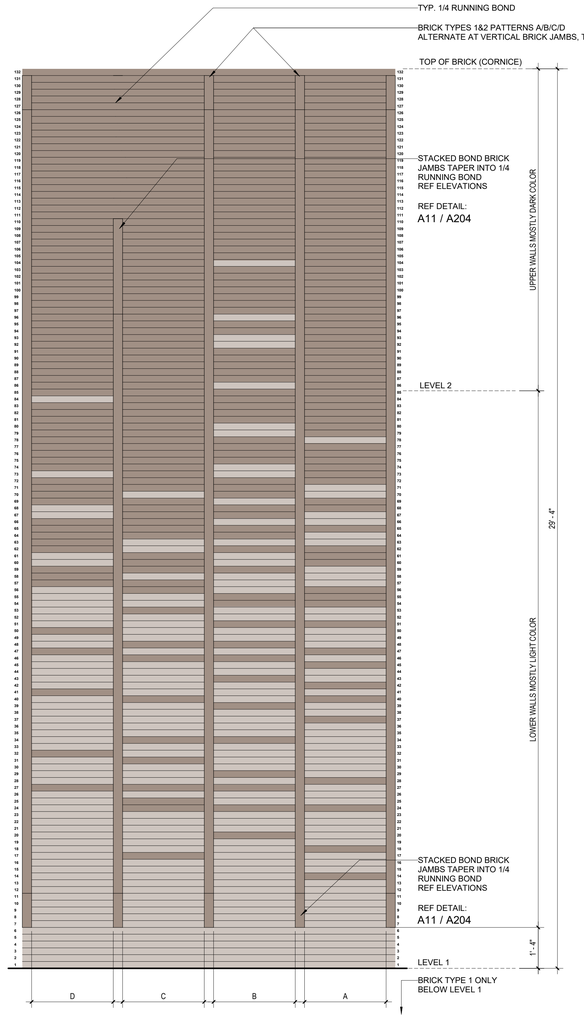


F1 / A204 BRICK PATTERN ELEVATION KEY SOUTH
1/16" = 1'-0"

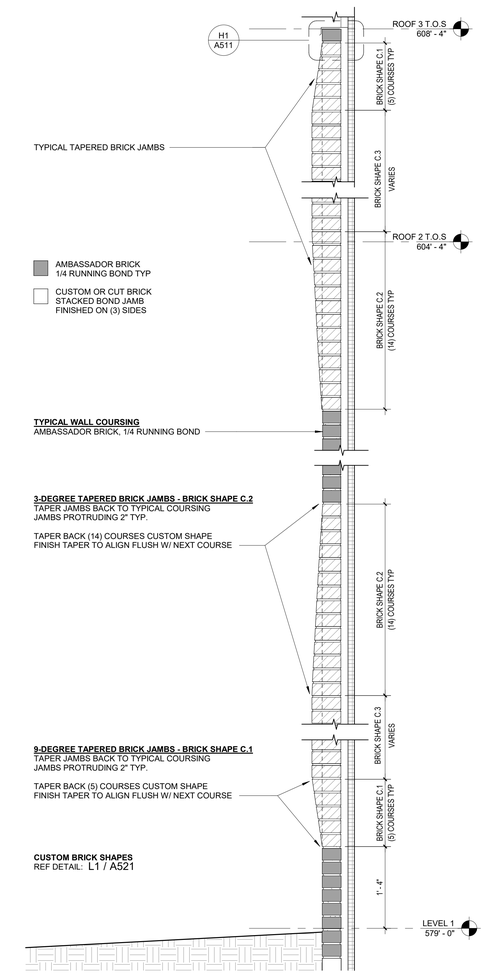


A1 / A204 BRICK PATTERN TYPES - ELEVATION
1/4" = 1'-0"

BRICK TYPES 1&2 COURSING PATTERN TYPES



A7 / A204 BRICK TYPES 1 & 2 PATTERN GUIDE (ELEVATION SOUTH)
1/2" = 1'-0"



A11 / A204 SECTION - TYPICAL BRICK TAPERED JAMBS (SOUTH)
1" = 1'-0"

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2775 Hydraulic Rd,
Charlottesville, VA 22901

No	Date	Description
1	11/11/2024	PRELIM. COMMENT RESPONSE

PROJECT MANAGER: KS
DRAWN: BG

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

BUILDING ELEVATIONS - BRICK COLORS & DETAILS

A204

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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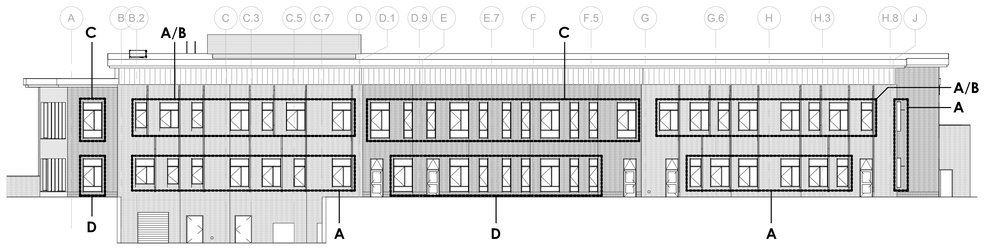
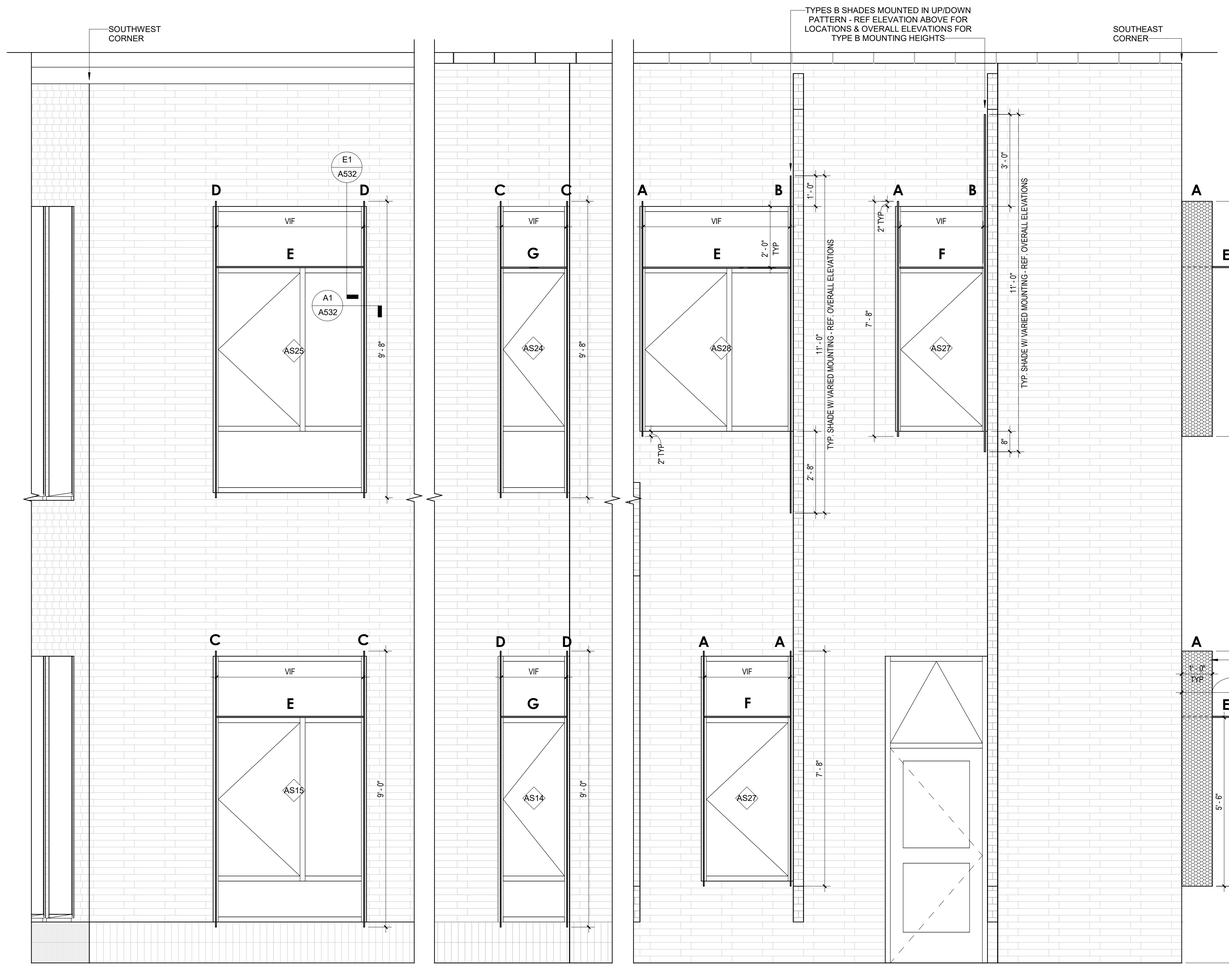


A/B PATTERN SUNSHADES

LH JAMB - TYPE A
RH JAMB - TYPE B

TYPE B SUNSHADES MOUNTED IN UP/DOWN PATTERN
REF OVERALL ELEVATIONS FOR MOUNTING HEIGHTS
REF ENLARGED DETAIL BELOW FOR TYPICAL DIMENSIONS

2 / A205 SUNSHADE TYPES ELEVATION KEY (SOUTH)
1/16" = 1'-0"



A7 / A205 ENLARGED PARTIAL ELEVATION SOUTH - SUNSHADE TYP MOUNTING LOCATIONS
1/2" = 1'-0"

SUNSHADE TYPES SCHEDULE

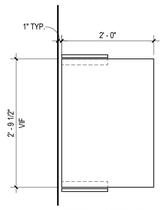
3/4" = 1'

VERTICAL	WIDTH	LENGTH	STOREFRONT LOCATIONS (SOUTH FACADES ONLY)
TYPE A	12"	7' - 8"	AS23, AS26, AS27, AS28
TYPE B	12"	11' - 0"	AS23, AS26, AS27, AS28
TYPE C	12"	9' - 8"	AS15, AS25, AS24
TYPE D	12"	9' - 0"	AS15, AS25, AS14

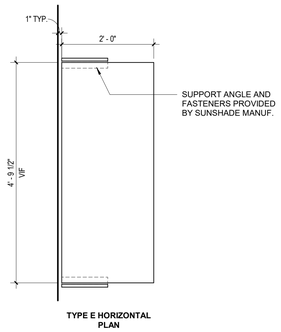
HORIZONTAL	WIDTH	LENGTH	
TYPE E	24"	VIF	AS15, AS25, AS27, AS28
TYPE F	24"	VIF	AS27, AS28
TYPE G	24"	VIF	AS14, AS24

HORIZONTAL SUNSHADES TYPES

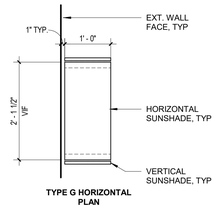
3/4" = 1'



TYPE F HORIZONTAL PLAN



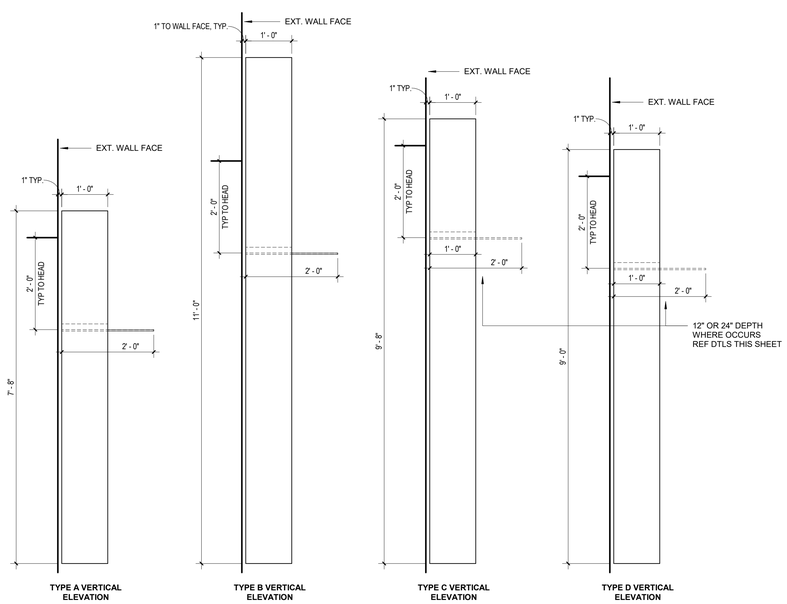
TYPE E HORIZONTAL PLAN



TYPE G HORIZONTAL PLAN

VERTICAL SUNSHADE TYPES

3/4" = 1'



TYPE A VERTICAL ELEVATION

TYPE B VERTICAL ELEVATION

TYPE C VERTICAL ELEVATION

TYPE D VERTICAL ELEVATION

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CONSTRUCTION

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STATE PROJECT NO. 002-88-01-100

Albemarle County Public Schools

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Charlottesville, VA 22901

NOT FOR CONSTRUCTION

No	Date	Description

PROJECT MANAGER: Checker
DRAWN: Author

QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

BUILDING ELEVATIONS - SUNSHADES & DETAILS

A205

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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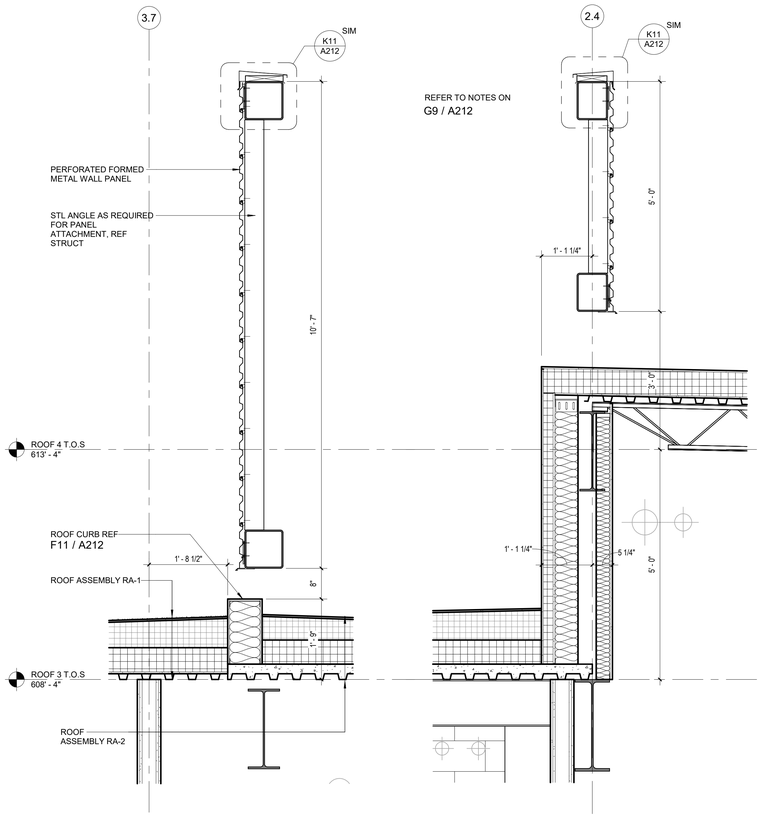
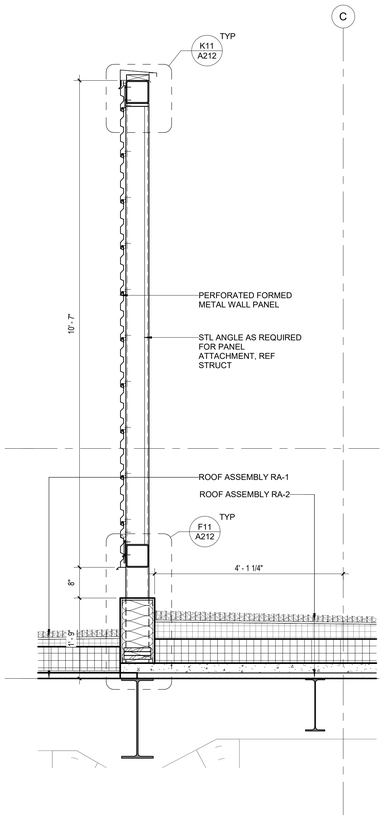
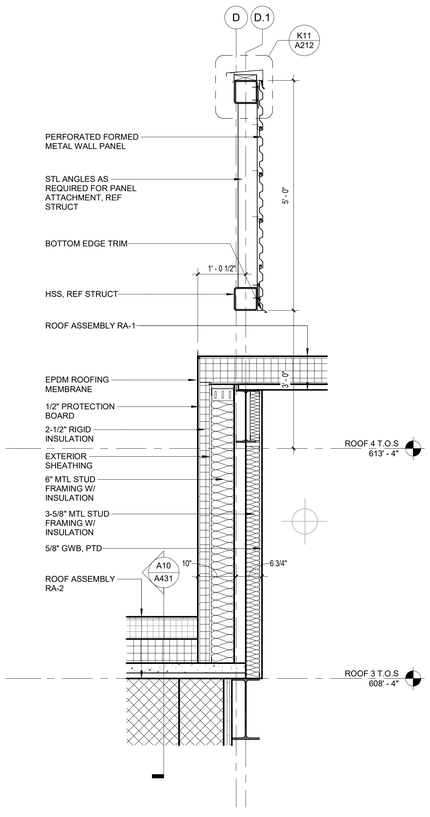


G1 A212 SECTION - ROOF MECH ENCLOSURE - NORTH
3/4" = 1'-0"

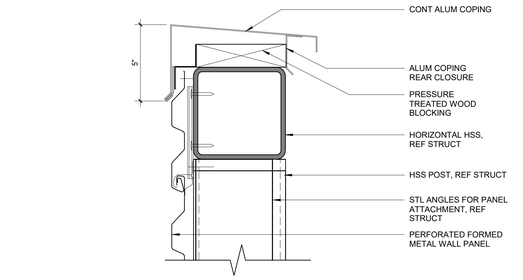
G3 A212 SECTION - ROOF MECH ENCLOSURE - SOUTH
3/4" = 1'-0"



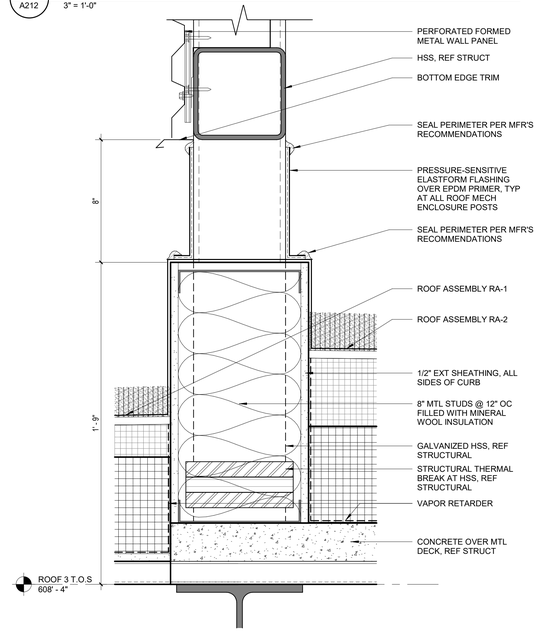
G6 A212 SECTION - ROOF MECH ENCLOSURE - WEST
3/4" = 1'-0"



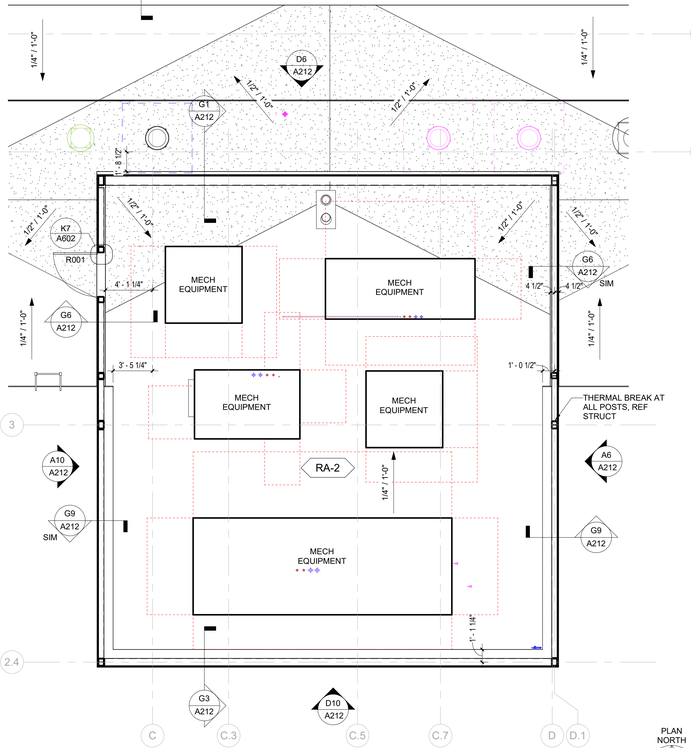
G9 A212 SECTION - ROOF MECH ENCLOSURE - EAST
3/4" = 1'-0"



K11 A212 SECTION DTL - ROOF SCREEN HEAD
3" = 1'-0"

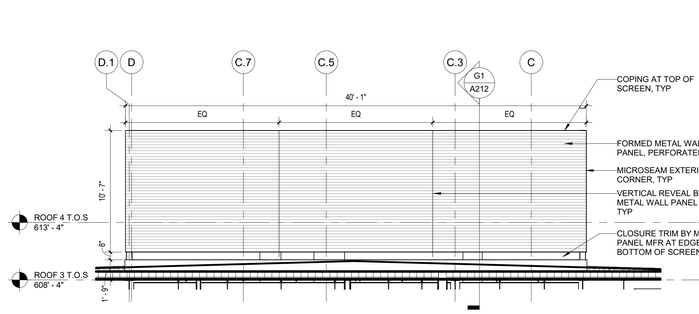


F11 A212 SECTION DTL - ROOF SCREEN SILL
3" = 1'-0"

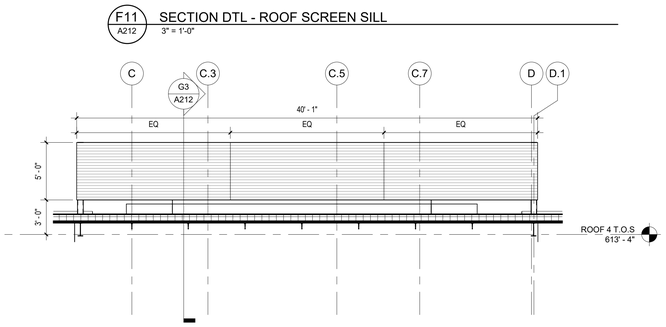


A1 A212 ENLARGED PLAN - ROOF MECHANICAL SCREEN
3/16" = 1'-0"

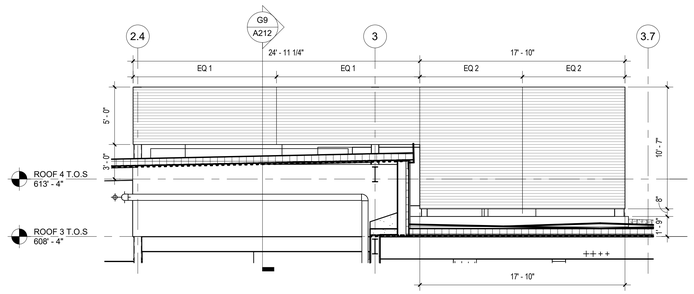
PLAN NORTH



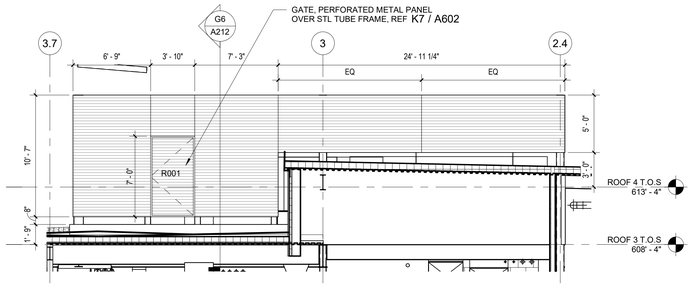
D6 A212 ELEVATION - ROOF MECH ENCLOSURE - NORTH
3/16" = 1'-0"



D10 A212 ELEVATION - ROOF MECH ENCLOSURE - SOUTH
3/16" = 1'-0"



A6 A212 ELEVATION - ROOF MECH ENCLOSURE - EAST
3/16" = 1'-0"



A10 A212 ELEVATION - ROOF MECH ENCLOSURE - WEST
3/16" = 1'-0"

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Albemarle County Public Schools

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2775 Hydraulic Rd,
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No	Date	Description

PROJECT MANAGER: KS
DRAWN: AJ
QEA No.41911390

ARB - SECOND SUBMISSION
10/02/2024

ROOF MECH ENCLOSURE ELEVS & DETAILS

A212

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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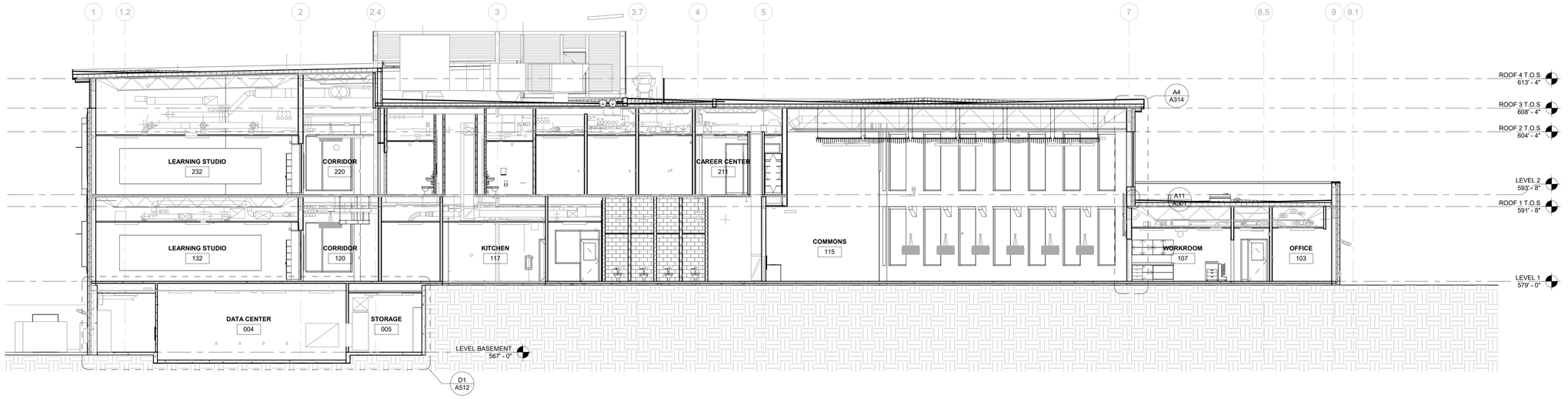
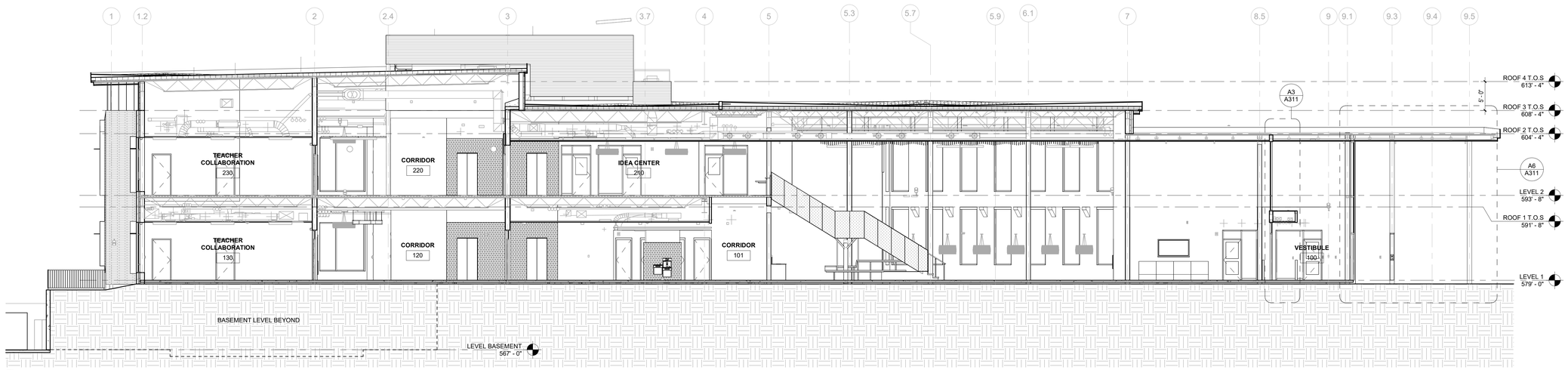
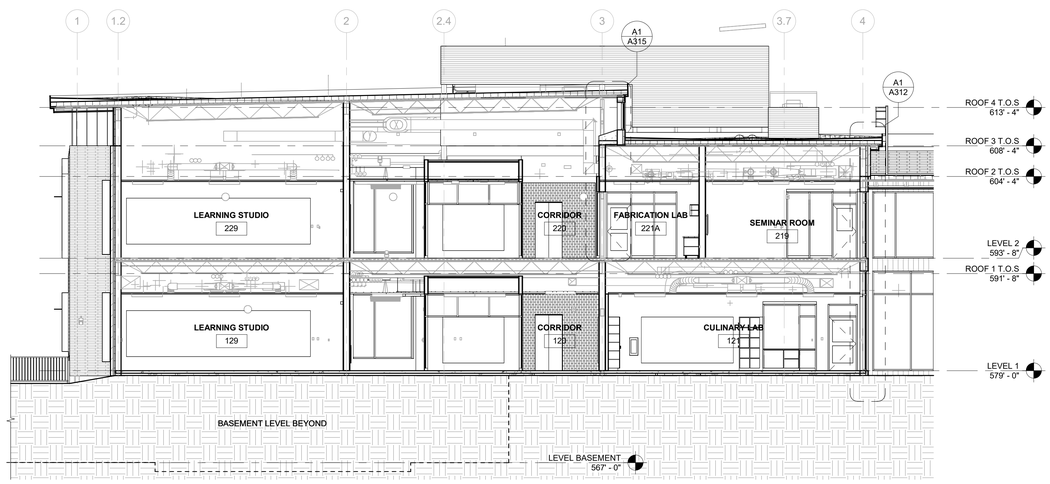


H1 A301 BUILDING SECTION
1/8" = 1'-0"



E1 A301 BUILDING SECTION
1/8" = 1'-0"



A1 A301 BUILDING SECTION
1/8" = 1'-0"

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No	Date	Description

PROJECT MANAGER: Checker
DRAWN: Author

QEA No.41911390

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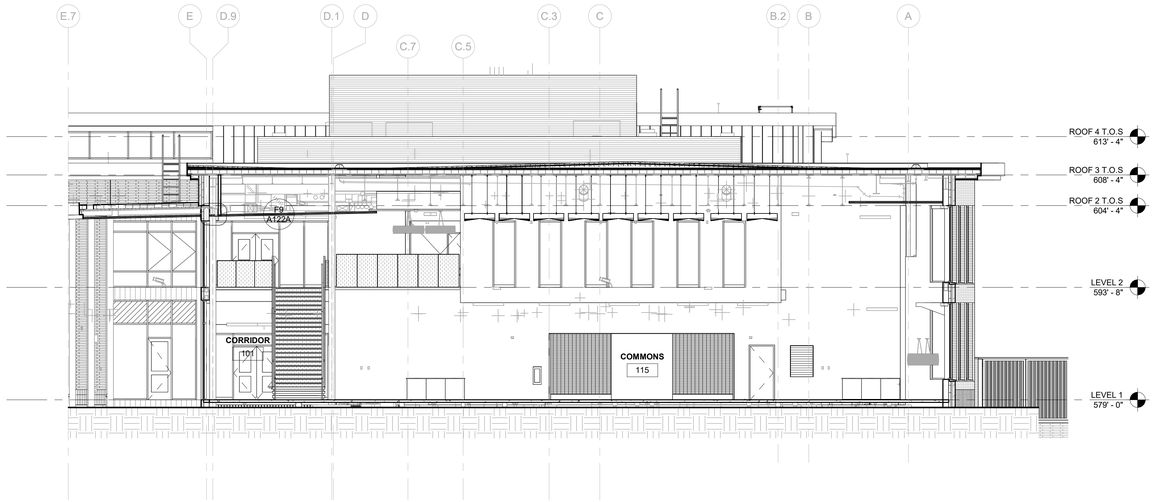
10/02/2024

BUILDING SECTIONS

A301



E1 A302 BUILDING SECTION
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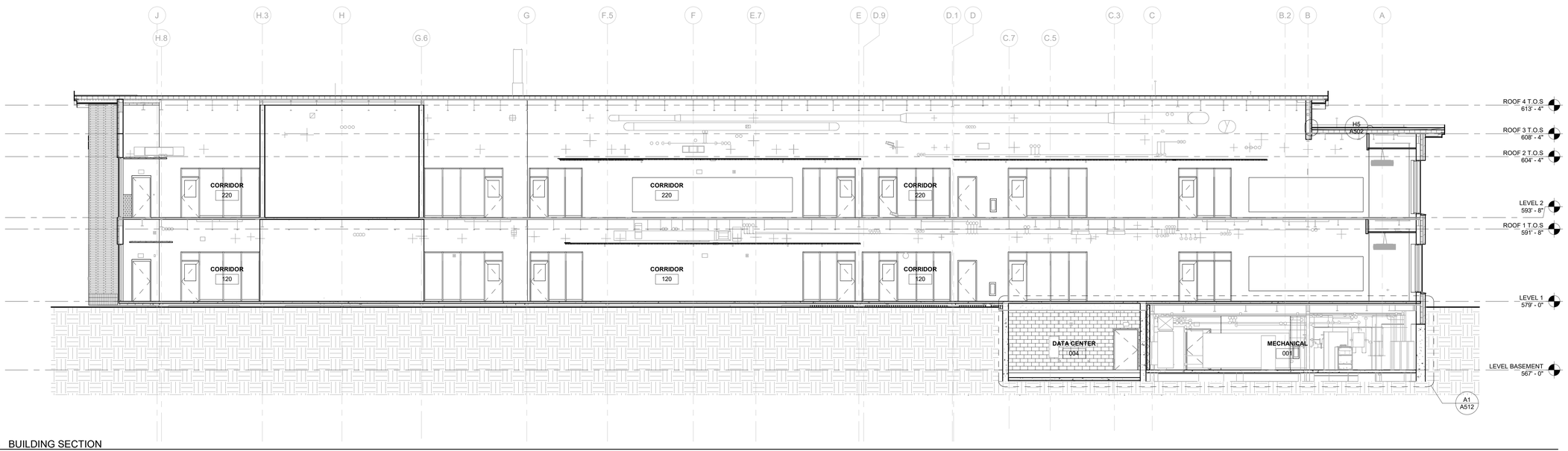

A1 A302 BUILDING SECTION
1/8" = 1'-0"

PATH & FILENAME: Autodesk Docs://Albemarle County High School Center II/ARCH_HSCII_R23.rvt
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No	Date	Description

PROJECT MANAGER: Checker
DRAWN: Author

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10/02/2024

BUILDING SECTIONS

A302