ALBEMARLE COUNTY REGIONAL JAIL

MAJOR SITE PLAN AMENDMENT
(REF: SDP2024-00056)
COUNTY OF ALBEMARLE, VIRGINIA
SCOTTSVILLE MAGISTERIAL DISTRICT

12/20/2024

SITE DATA:

TAX MAP PARCEL AND OWNER INFO: TMP 77-11A 07700-00-00-011A0
ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL AUTHORITY
DB. 1531, PG. 668
AREA (GIS): 8.25 ACRES

TMP 76M1-19 076M1-00-00-01900
BLUE RIDGE JUVENILE DETENTION COMMISSION
DB. 1825, PG. 37
AREA (GIS): 7.72 ACRES

ZONING: R1 RESIDENTIAL, EC ENTRANCE CORRIDOR OVERLAY, AIA AIRPORT IMPART AREA OVERLAY, MANAGED STEEP SLOPES OVERLAY

SOURCE TOPOGRAPHY: TIMMONS GROUP
28 IMPERIAL DRIVE
STAUNTON, VA 24401
(540) 885 - 0920
DATED: DECEMBER 20 & 21, 2023; January 01, 02, 04-05, 08, 10-11, 15, & 17, 2024

FLOOD: MAP NO. 51003C0288D, (PANEL 288 OF 575)

DATUM: HORIZONTAL: NAD83 VIRGINIA STATE GRID SOUTH ZONE

PRESENT USE: ALBEMARLE CHARLOTTESVILLE REGIONAL JAIL

PROPOSED USE: ALBEMARLE CHARLOTTESVILLE REGIONAL JAIL

SETBACKS: FRONT: 5' FRONT YARD SETBACK FROM PROPERTY LINE
SIDE/REAR: 5' SIDE YARD SETBACK AND 20' REAR YARD SETBACK FROM PROPERTY LINE

EXISTING BUILDING SQUARE FOOTAGE: ±66,830 SQFT

BUILDING SQUARE FOOTAGE TO BE DEMOLISHED: ±16,300 SQFT

PROPOSED BUILDING ADDITION SQUARE FOOTAGE: ±22,490 SQFT

TOTAL PROPOSED BUILDING SQUARE FOOTAGE INCLUDING EXISTING TO REMAIN: ±73,020 SQFT

ALLOWABLE BUILDING HEIGHT: 35 FEET

EXISTING BUILDING HEIGHT: 78.33 FEET (TO TOP OF EXISTING TOWER ON THE WEST OF THE SITE)

PROPOSED BUILDING HEIGHT: 31.66 FEET (TO TOP OF ADDITION)

LIMITS OF DISTURBANCE: 1.43 ACRES

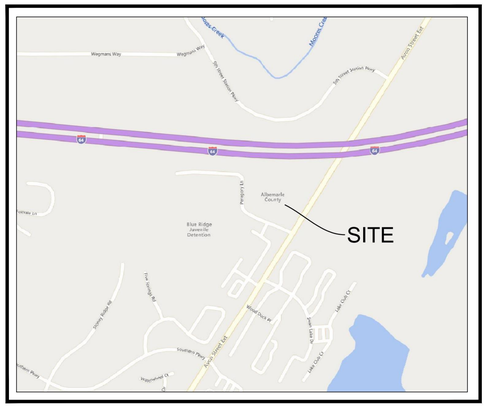
EXISTING IMPERVIOUS AREA: 1.02 ACRES

PROPOSED IMPERVIOUS AREA: 1.26 ACRES

PARKING TABULATIONS:
EXISTING:
MAGISTRATE LOT: 14
PUBLIC LOT: 54
TOTAL EXISTING: 68
PROPOSED:
MAGISTRATE LOT: 6
PUBLIC LOT: 57
TOTAL PROPOSED: 63
TOTAL LOST: 5
* REFER TO LETTER FROM BUILDING USER STATING THE PROPOSED PARKING SPACE COUNT IS ADEQUATE FOR THE JAIL'S OPERATIONS *

WATER SUPPLY: PUBLIC
SANITARY SEWER: PUBLIC
WATERSHED: RIVANNA RIVER & MOORES CREEK*
*NEITHER WATERSHED IS A PUBLIC WATER SUPPLY RESERVOIR WATERSHED.

NOTES:
1. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN AGRICULTURAL-FORESTAL DISTRICT.



VICINITY MAP
SCALE: 1"=500'

TIMMONS GROUP CIVIL ENGINEER
1001 BOULDERS PARKWAY, SUITE 300
RICHMOND, VIRGINIA 23225
CONTACT PERSON: THAD RICH
PHONE: 804.200.6500
EMAIL: Thad.Rich@timmons.com

MOSELEY ARCHITECTS ARCHITECT
3200 NORFOLK STREET
RICHMOND, VIRGINIA 23230
CONTACT PERSON: MICHAEL GIBSON
PHONE: 804.794.7555
EMAIL: mgibson@moseleyarchitects.com

ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL AUTHORITY OWNER
ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL AUTHORITY
401 MCINTIRE ROAD CHARLOTTESVILLE, VA 22902 Voice: (434) 296-5832
CONTACT PERSON:MARTIN KUMER
PHONE: 434.962.3015
EMAIL: KUMERM@ACRJ.ORG

Sheet List Table

Sheet Number	Sheet Title
C000	COVER SHEET
C001	GENERAL LEGEND
C002	GENERAL NOTES AND DETAILS
C100	OVERALL EXISTING CONDITIONS & TOPOGRAPHY
C101	EXISTING CONDITIONS & TOPOGRAPHY
C111	BORING LOCATIONS
C121	DEMOLITION PLAN
C201	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
C202	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
C211	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C212	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C213	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C300	OVERALL SITE PLAN
C301	SITE PLAN
C302	ALIGNMENT AND DIMENSION PLAN
C311	SITE NOTES AND DETAILS
C312	SITE NOTES AND DETAILS
C351	SIGHT DISTANCE PLAN
C352	SIGHT DISTANCE PROFILES
C353	STOPPING SIGHT DISTANCE
C354	NEW ENTRANCE PROFILE
C355	TRAFFIC MANAGEMENT PLAN
C401	GRADING PLAN
C411	SPOT ELEVATION PLAN
C421	INLET DRAINAGE AREA
C431	STORMWATER PROFILES
C501	STORMWATER COMPLIANCE SUMMARY
C511	HYDROLOGY PLAN
C521	EXISTING LAND COVER MAP
C522	FINISHED LAND COVER MAP
C601	UTILITY PLAN
C611	UTILITY PROFILES
C631	UTILITY NOTES & DETAILS
C641	WATER MODEL
C642	MODEL RESULTS
L100	LANDSCAPE PLAN
L200	LANDSCAPE NOTES AND DETAIL
L300	PHOTOMETRIC PLAN
L301	LIGHTING CUTSHEETS
L302	LIGHTING CUTSHEETS
L304	LIGHTING CUTSHEETS

SIGNATURE PANEL:

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

MOSELEY ARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
THADDARUS P. RICH
Lic. No. 062377
20 DEC 2024
PROFESSIONAL ENGINEER

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ALBEMARLE COUNTY REGIONAL JAIL
EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632562
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

COVER SHEET

C000

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CIVIL SYMBOL LEGEND

GENERAL ANNOTATION
DETAIL SECTION BUBBLE
DRAINAGE AREA LABEL
CALLOUT BUBBLE
REVISION TRIANGLE
NORTH ARROW
PLAN VIEW GRAPHIC SCALE
PROFILE VIEW GRAPHIC SCALE

SITE FEATURES
ADA PARKING SPACE
PARKING SPACE COUNT
CONCRETE WHEELSTOP
BOLLARD
SIGN
DOUBLE POST SIGN
FLAG POLE

UTILITIES
AERIAL UTILITY POLE
CABLE TELEVISION MANHOLE
CABLE TELEVISION PEDESTAL
SATELLITE DISH
TELECOMM MANHOLE
TELECOMM PEDESTAL
LIGHT POLE
ELECTRIC METER
ELECTRIC MANHOLE
GUY POLE
GUY ANCHOR
ELECTRIC PEDESTAL
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
SANITARY MANHOLE IDENTIFICATION
WATERLINE PLUG
DOUBLE DETECTOR CHECK ASSEMBLY
FITTING
FIRE HYDRANT ASSEMBLY
WATER MANHOLE
WATER METER
POST INDICATOR VALVE
REDUCER
FIRE DEPARTMENT CONNECTION
SPIGOT
WATER VALVE
WELL
NATURAL GAS VALVE

STORM DRAINAGE
STORM SEWER CLEANOUT
STORM SEWER MANHOLE
STORM SEWER IDENTIFICATION
STORM SEWER ENDWALL
STORM SEWER WINGWALL
STORM SEWER END SECTION
DOWNSPOUT / ROOF DRAIN
DROP INLET / GRATE TOP INLET
CURB INLET
STORM PIPE

VEGETATION
TREE (SYMBOL VARIES)

SITE GRADING
SLOPE % TAG
GRADE TAG
SPOT DESCRIPTION
SPOT ELEVATION

SURVEY CONTROL
SURVEY BENCHMARK LOCATION
SURVEY CONTROL POINT

SOILS
SOIL BORING IDENTIFICATION

SITE FEATURES
EXISTING ADA PARKING
EXISTING SIGN
EXISTING DOUBLE POST SIGN
EXISTING AIR CONDITIONING UNIT
EXISTING BOLLARD
EXISTING DUMPSTER
EXISTING FLAG POLE
EXISTING HEADSTONE
EXISTING MAILBOX
EXISTING LIGHTED BOLLARD
EXISTING TRAFFIC SIGNAL POLE
EXISTING TRAFFIC SIGNAL BOX

UTILITIES
EXISTING AERIAL UTILITY POLE
EXISTING UTILITY MANHOLE
EXISTING UTILITY VAULT
EXISTING CABLE TELEVISION MANHOLE
EXISTING CABLE TELEVISION PEDESTAL
EXISTING SATELLITE DISH
EXISTING TELECOMM MANHOLE
EXISTING TELECOMM PEDESTAL
EXISTING YARD LIGHT
EXISTING GROUND LIGHT
EXISTING LIGHT POLE
EXISTING ELECTRIC METER
EXISTING ELECTRIC MANHOLE
EXISTING GUY POLE
EXISTING GUY ANCHOR
EXISTING ELECTRIC BOX
EXISTING SANITARY MANHOLE
EXISTING SANITARY CLEANOUT
EXISTING SANITARY FLOW DIRECTION
EXISTING FIRE HYDRANT
EXISTING FIRE DEPARTMENT CONNECTION
EXISTING SPIGOT
EXISTING WATER METER
EXISTING WATER MANHOLE
EXISTING WATER VALVE
EXISTING POST INDICATOR VALVE
EXISTING WELL
EXISTING GAS METER
EXISTING DRIP VALVE
EXISTING GAS VALVE

STORM DRAINAGE
EXISTING SPRINKLER BOX
EXISTING SPRINKLER VALVE
EXISTING SPRINKLER HEAD
EXISTING STORM MANHOLE
EXISTING STORM CATCH BASIN
EXISTING DOWNSPOUT / ROOF DRAIN
EXISTING STORM FLOW DIRECTION

VEGETATION
EXISTING TREE (SYMBOL VARIES)
EXISTING SHRUB

SITE GRADING
EXISTING GRADE SPOT ELEVATION
EX +/- 389.84'

CIVIL LINETYPE LEGEND

GENERAL ANNOTATION
REVISION CLOUD

GRADING AND DRAINAGE
CREEK/STREAM CENTERLINE
CREAK/STREAM EDGE OF WATER
RESOURCE CONSERVATION AREA (RCA)
RESOURCE PROTECTION AREA (RPA)
DITCH CENTERLINE
POND EDGE OF WATER
MAJOR CONTOUR (150)
MINOR CONTOUR (149)
STORM SEWER UNDERDRAIN (UD)
WETLANDS BOUNDARY

HYDROLOGY
MAJOR DRAINAGE AREA BOUNDARY
MINOR DRAINAGE AREA BOUNDARY
TIME OF CONCENTRATION
FLOODPLAIN

SITE FEATURES
DECORATIVE SECURITY FENCE
PROPERTY LINE
PROPERTY SETBACKS
PROPERTY ZONE
RAILWAY
ROAD CENTERLINE
GUARDRAIL
EDGE OF GRAVEL
SIGHT DISTANCE
EDGE OF UNPAVED SURFACE
EDGE OF SHRUB
EDGE OF TREES
COLUMN GRID AND IDENTIFICATION [REFER TO ARCHITECTURAL DRAWINGS]

UTILITIES
OVERHEAD CABLE TV (OCATV)
UNDERGROUND CABLE TV (UCATV)
OVERHEAD FIBER OPTIC (OFO)
UNDERGROUND FIBER OPTIC (UFO)
OVERHEAD TELECOMM (OHT)
UNDERGROUND TELECOMM (UGT)
BUILDING AUTOMATION SYSTEM (BAS)
NATURAL GAS SERVICE (G)
OVERHEAD POWER (OHP)
UNDERGROUND POWER (UGP)
OVERHEAD POWER + CABLE (OH P/C)
OVERHEAD POWER + TELECOMM + CABLE (OH P/T/C)
OVERHEAD POWER + TELECOMM (OH P/T)
OVERHEAD TELECOMM + CABLE (OH T/C)
UNDERGROUND POWER + CABLE (UG P/C)
UNDERGROUND POWER + TELECOMM + CABLE (UG P/T/C)
UNDERGROUND POWER + TELECOMM (UG P/T)
UNDERGROUND TELECOMM + CABLE (UG T/C)
SANITARY SEWER FORCE MAIN (FM)
SANITARY SEWER PIPE (SAN)
SANITARY SEWER PIPE WITH SIZE (6"SAN)
WATER SERVICE (W)
FIRE PROTECTION SERVICE (F)
WATER SERVICE WITH SIZE (6"W)
FIRE PROTECTION SERVICE WITH SIZE (6"F)

CHILLED/HOT WATER RETURN (CHWR)
CHILLED/HOT WATER SERVICE (CHWS)
CHILLED WATER RETURN (CWR)
CHILLED WATER SERVICE (CWS)
HOT WATER RETURN (HWR)
HOT WATER SERVICE (HWS)

GRADING AND DRAINAGE
EXISTING CREEK/STREAM CENTERLINE
EXISTING DITCH CENTERLINE
EXISTING FLOODPLAIN
EXISTING INUNDATION ZONE
EXISTING POND EDGE OF WATER
EXISTING STORM SEWER PIPE
EXISTING MAJOR CONTOUR (150)
EXISTING MINOR CONTOUR (149)

SITE FEATURES
EXISTING FENCE (X)
EXISTING EDGE OF SHRUB
EXISTING EDGE OF TREES
EXISTING ADJOINING PROPERTY LINE
EXISTING PROPERTY LINE
EXISTING PROPERTY LOTS
EXISTING PROPERTY SETBACKS
EXISTING RAILWAY
EXISTING RIGHT-OF-WAY
EXISTING EDGE OF ASPHALT
EXISTING ROAD CENTERLINE
EXISTING GUARDRAIL
EXISTING EDGE OF GRAVEL
EXISTING EDGE OF UNPAVED SURFACE

UTILITIES
FIBER OPTIC PAINT MARKING (UFO)
EXISTING OVERHEAD FIBER OPTIC (OFO)
TELECOMM PAINT MARKING (UGT)
EXISTING OVERHEAD TELECOMM (OHT)
NATURAL GAS SERVICE PAINT MARKING (G)
POWER PAINT MARKING (UGP)
EXISTING OVERHEAD POWER (OHP)
SANITARY SEWER PAINT MARKING (SAN)
EXISTING SANITARY SEWER PIPE WITH SIZE (6" SAN)
UNKNOWN UTILITY PAINT MARKING (UTL)
WATER SERVICE PAINT MARKING (W)
EXISTING WATER SERVICE WITH SIZE (6" W)

SUBSURFACE UTILITY ENGINEERING QUALITY LEVELS PER ASCE 38-02*

- QUALITY LEVEL D: QLD IS THE MOST BASIC LEVEL OF INFORMATION FOR UTILITY LOCATIONS. IT COMES SOLELY FROM EXISTING UTILITY RECORDS OR VERBAL RECOLLECTIONS, BOTH TYPICALLY UNRELIABLE SOURCES. IT MAY PROVIDE AN OVERALL "FEEL" FOR THE CONGESTION OF UTILITIES, BUT IS OFTEN HIGHLY LIMITED IN TERMS OF COMPREHENSIVENESS AND ACCURACY. QL-D IS USEFUL PRIMARILY FOR PROJECT PLANNING AND ROUTE SELECTION ACTIVITIES.
- QUALITY LEVEL C: QLC IS PROBABLY THE MOST COMMONLY USED LEVEL OF INFORMATION. IT INVOLVES SURVEYING VISIBLE UTILITY FACILITIES (E.G., MANHOLES, VALVE BOXES, ETC.) AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS (QL-D INFORMATION). WHEN USING THIS INFORMATION, IT IS NOT UNUSUAL TO FIND THAT MANY UNDERGROUND UTILITIES HAVE BEEN EITHER OMITTED OR ERRONEOUSLY PLOTTED. ITS USEFULNESS, THEREFORE, IS PRIMARILY ON RURAL PROJECTS WHERE UTILITIES ARE NOT PREVALENT, OR ARE NOT TOO EXPENSIVE TO REPAIR OR RELOCATE.
- QUALITY LEVEL B: QLB INVOLVES THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. THIS ACTIVITY IS CALLED "DESIGNATING". THE INFORMATION OBTAINED IN THIS MANNER IS SURVEYED TO PROJECT CONTROL. IT ADDRESSES PROBLEMS CAUSED BY INACCURATE UTILITY RECORDS, ABANDONED OR UNRECORDED FACILITIES, AND LOST REFERENCES. THE PROPER SELECTION AND APPLICATION OF SURFACE GEOPHYSICAL TECHNIQUES FOR ACHIEVING QLB DATA IS CRITICAL. INFORMATION PROVIDED BY QLB CAN ENABLE THE ACCOMPLISHMENT OF PRELIMINARY ENGINEERING GOALS. DECISIONS REGARDING LOCATION OF STORM DRAINAGE SYSTEMS, FOOTERS, FOUNDATIONS AND OTHER DESIGN FEATURES CAN BE MADE TO SUCCESSFULLY AVOID CONFLICTS WITH EXISTING UTILITIES. SLIGHT ADJUSTMENTS IN DESIGN CAN PRODUCE SUBSTANTIAL COST SAVINGS BY ELIMINATING UTILITY RELOCATIONS.
- QUALITY LEVEL A: QLA, ALSO KNOWN AS "LOCATING", IS THE HIGHEST LEVEL OF ACCURACY PRESENTLY AVAILABLE AND INVOLVES THE FULL USE OF THE SUBSURFACE UTILITY ENGINEERING SERVICES. IT PROVIDES INFORMATION FOR THE PRECISE PLAN AND PROFILE MAPPING OF UNDERGROUND UTILITIES THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES.

* DESCRIPTIONS TAKEN FROM THE USDOT FHWA SUBSURFACE UTILITY ENGINEERING WEBPAGE <https://www.fhwa.dot.gov/programadmin/sueindex.cfm>

CIVIL ABBREVIATIONS

A

A/C UNIT	AIR CONDITIONING UNIT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ACRE
ACP	ASBESTOS CONCRETE PIPE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
ADV	ADVANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPR	APPROXIMATE
APPROX	APPROXIMATE
ARCH	ARCHITECT or ARCHITECTURAL
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT/FP	ANTI-TERRORISM / FORCE PROTECTION
AVO	AUTHORIZED VEHICLES ONLY
AWWA	AMERICAN WATER WORKS ASSOCIATION

B

BC	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTOR
BL	BASE LINE
BLDG	BUILDING
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICE
BOS	BOTTOM OF SLOPE
BOV	BLOW OFF VALVE
BV	BUTTERFLY VALVE
BW	BOTTOM OF WALL

C

CATV	CABLE TELEVISION
CB	CATCH BASIN
CBR	CALIFORNIA BEARING RATIO
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CG	CURB AND GUTTER
CHH	COMMUNICATION HANDHOLE
CI	CAST IRON
CL	CLASS
CLF	CHAINLINK FENCE
CLS	CENTERLINE SWALE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COE	CORPS OF ENGINEERS
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CY	CUBIC YARD

D

DB	DEED BOOK
DEPT	DEPARTMENT
DET	DETAIL
DEQ	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DMH	DOGHOUSE MANHOLE
DNE	DO NOT ENTER
DOM	DOMINION VIRGINIA POWER
DR	DRIVE
DS	DOWNSPOUT
DVP	DOMINION VIRGINIA POWER
DWG	DRAWING

E

E	ELECTRIC
EA	EACH
EG	EXISTING GRADE
EHH	ELECTRIC HANDHOLE
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
EOI	END OF INFORMATION
EP	EDGE OF PAVEMENT
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ES	END SECTION
ESMT	EASEMENT
EUE	EXISTING UNDERGROUND ELECTRIC
EUT	EXISTING UNDERGROUND TELEPHONE
EVO	EMERGENCY VEHICLES ONLY
EW	ENDWALL
EW	EXISTING WATER
EX	EXISTING
E&SC	EROSION AND SEDIMENT CONTROL

F

FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FEV	FUEL EFFICIENT VEHICLES
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FIRE LANE
FL	FLOW LINE
FM	FORCE MAIN
FOMKR	FIBER OPTIC MARKER
FT	FOOT
FVO	FIRE VEHICLES ONLY

G

G	GAS
GIS	GEOGRAPHIC INFORMATION SYSTEM
GM	GAS METER
GND	GROUND
GPIN	GEOGRAPHIC PARCEL IDENTIFICATION NUMBER
GPS	GLOBAL POSITION SYSTEM
GRVL	GRAVEL
GSA	GENERAL SERVICES ADMINISTRATION
GTI	GRATE TOP INLET
GTS	GAS TEST STATION
GV	GATE VALVE

H

HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HH	HANDHOLE
HOA	HOME OWNERS' ASSOCIATION
HORIZ	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLES
HP	HIGH POINT

I

IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IFC	INTERNATIONAL FIRE CODE
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IPF	IRON PIPE FOUND
IRF	IRON ROD FOUND
ISO	INSURANCE SERVICES OFFICE, INC

L

LD	LIGHT DUTY
LEV	LOW EMISSION VEHICLES
LF	LINEAR FEET
LOC	LOCATION
LOC	LIMITS OF CONSTRUCTION
LOD	LIMITS OF DISTURBANCE
LOW	LIMITS OF WORK
LP	LIGHT POLE
LP	LOW POINT
LS	LUMP SUM

M

MAX	MAXIMUM
MB	MAILBOX
MDE	MARYLAND DEPARTMENT OF THE ENVIRONMENT
MECH	MECHANICAL
MG	MATCH GRADE
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

N

NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NAVFAC	NAVAL FACILITIES ENGINEERING COMMAND
N/F	NOW OR FORMERLY
NFF	NEEDED FIRE FLOW
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NO	NUMBER
NPZ	NO PARKING ZONE
NTS	NOT TO SCALE
NWI	NATIONAL WETLANDS INVENTORY

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRIC
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVHD	OVERHEAD

P

PB	PLAT BOOK
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PED	PEDESTAL
PG	PAGE
PH	PHASE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
POA	POINT OF ANALYSIS
POI	POINT OF INTEREST
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVO	POLICE VEHICLES ONLY
PWR	POWER

Q

QLx	QUALITY LEVEL [A, B, C, D]

R

RW	RIGHT-OF-WAY
RCA	RESOURCE CONSERVATION AREA
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ	REQUIRED
RJ	RESTRAINED JOINT
RMA	RESOURCE MANAGEMENT AREA
ROW	RIGHT-OF-WAY
RPA	RESOURCE PROTECTION AREA
RPZ	REDUCED PRESSURE ZONE
RR	RAILROAD

S

S	SLOPE
SAN	SANITARY SEWER
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SF	SILT FENCE
SF	SQUARE FEET
SMH	STANDARD MANHOLE
SPT	SPOT GRADE
SRF	SPLIT RAIL FENCE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STM	STORM
STMH	STORM SEWER MANHOLE
SUE	SUBSURFACE UTILITY EXPLORATION
SWK	SIDEWALK
SWL	SWALE
SY	SQUARE YARDS

T

T	TELEPHONE / TELECOMM
TB	TOP OF BOX
TBD	TO BE DETERMINED
TBM	TELEPHONE BENCHMARK
TC	TOP OF CURB
TCM	TELECOMMUNICATIONS MANHOLE
TCP	TERRACOTTA CLAY PIPE
TEL	TELEPHONE
TEMP	TEMPORARY
THH	TELEPHONE HANDHOLE
TMH	TELEPHONE MANHOLE
TMKR	TELEPHONE MARKER
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TP	TREE PROTECTION
TRANS	TRANSFORMER
TW	TOP OF WALL
TYP	TYPICAL

U

UD	UNDERDRAIN
UFO	UNDERGROUND FIBER OPTIC
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGP	UNDERGROUND POWER
UGT	UNDERGROUND TELECOMM
UNK	UNKNOWN
UNO	UNLESS NOTED (INDICATED) OTHERWISE
USACE	UNITED STATES ARMY CORP OF ENGINEERS
USGS	UNITED STATES GEOLOGICAL SURVEY
UTL	UTILITY

V

VA	VIRGINIA
VAR	VARIABLE
VCP	VITRIFIED CLAY PIPE
VDH	VIRGINIA DEPARTMENT OF HEALTH
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
VEPCO	VIRGINIA ELECTRIC POWER COMPANY
VERT	VERTICAL
VESCH	VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK

W

W	WATER
W/	WITH
W/L	WATERLINE
W/O	WITHOUT
WAT	WATER
WB	WILL BOOK
WLK	WALKWAY
WM	WATER METER
WSEL	WATER SURFACE ELEVATION
WUS	WATERS OF THE US
WV	WATER VALVE

X

X-ING	CROSSING
XSEC	CROSS SECTION

SYMBOLS

Ø	DIAMETER
≈	APPROXIMATELY EQUAL
≠	NOT EQUAL
±	PLUS/MINUS
℄	CENTERLINE
ℙ	PROPERTY LINE
ℝ	BASE LINE
Δ	DELTA (DIFFERENCE)
@	AT

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ALBEMARLE COUNTY REGIONAL JAIL
EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552	
DATE:	DECEMBER 20, 2024
REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

GENERAL LEGEND

C001

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UTILITY CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO INDUSTRY STANDARDS AND BE APPROVED BY ALBEMARLE COUNTY SERVICE AUTHORITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE DEPARTMENT OF UTILITIES TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK ON THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
3. CONTRACTOR SHALL INCLUDE IN APPLICABLE BID PRICE, COST OF LOCATING AND UNCOVERING ALL SEWER MANHOLES AND VALVE BOXES AFTER COMPLETION OF ALL PAVING AND TO ADJUST THEM TO THE FINAL ROAD GRADES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING OUT SEWER MAINS FOR FINAL INSPECTION, IF NECESSARY.
4. EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THE PLANS. CONTRACTOR SHALL, ON HIS OWN INITIATIVE AND NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. CONTRACTOR SHALL CALL MISS UTILITY PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND LINES OR STRUCTURES.
5. MINIMUM COVER OVER TOP OF WATER PIPE MUST BE 3.50' UP TO 12" PIPES, FOR GREATER ADDITIONAL COVER SHALL BE PROVIDED AND FOR SEWER PIPES IS 3' BUT WITH SPECIAL CONDITION ALLOWED BY ACSA IT CAN BE LESS THAN 3' AND PIPE SHALL BE DUCTILE IRON, CLASS 52.
6. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH INTERNATIONAL FIRE CODE.
7. CONTRACTOR SHALL CERTIFY THAT UNPAVED STREETS ARE TO SUBGRADE PRIOR TO CONTRACTOR INSTALLING WATER SYSTEM. CURB AND GUTTER, IF REQUIRED, SHALL BE INSTALLED PRIOR TO ACCEPTANCE OF WATER SYSTEM BY THE COUNTY.
8. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND INCLUDING ELECTRIC, TELEPHONE, AND CATV.
9. NO STRUCTURES OR PLANTING OF TREES SHALL BE PERMITTED IN UTILITY EASEMENTS.
   - 9.1. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A THREE FOOT RADIUS OF ANY FIRE HYDRANT, FIRE PUMP TEST HEADER, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTION, FIRE DEPARTMENT STANDPIPE CONNECTION, OR FIRE SUPPRESSION CONTROL VALVE.
   - 9.2. LANDSCAPING IN THE AREA OF FIRE HYDRANTS, FIRE PUMP TEST HEADER, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTION, OR FIRE DEPARTMENT STANDPIPE CONNECTIONS SHALL BE OF THE TYPE THAT WILL NOT ENCROACH ON THE REQUIRED THREE FOOT CLEAR RADIUS ON MATURITY OF THE LANDSCAPING.
10. COORDINATE AND REFER TO PLUMBING PLANS FOR DOMESTIC / FIRE / SEWER SERVICES WITHIN 5 FEET OF THE BUILDING. BEYOND THE WATER METER, IT IS THE PLUMBER'S RESPONSIBILITY TO INSTALL THE WATER SERVICE.
11. THE 6 INCH DISCHARGE OF THE FIRE HYDRANT SHALL FACE IN THE DIRECTION OF THE ARROW INDICATED ON THE PLAN.
12. FIRE HYDRANTS TO BE INSTALLED MINIMUM 1.5' FROM DRIVE AISLE OR BACK OF SIDEWALK. MINIMIZE LENGTHS OF HYDRANT LEADERS.
13. FIRE HYDRANT ASSEMBLY INCLUDES FIRE HYDRANT, AS NEEDED TEE FITTING FROM MAIN, 6" GATE VALVE, VALVE BOX, AND ALL APPURTENANCES IN ALBEMARLE COUNTY SERVICE AUTHORITY FIG W-4.
14. HYDRANTS SHALL HAVE A SIX (6) INCH BARREL WITH FIVE AND ONE-QUARTER (5¼) INCH CLEAR OPENING THROUGH THE VALVE AND SHALL BE PROVIDED WITH A FOUR AND ONE-HALF (4½) INCH PUMPER CONNECTION AND TWO (2) TWO AND ONE-HALF (2½) INCH I.D. HOSE CONNECTIONS.
15. RESTRAINED JOINTS ARE TO BE UTILIZED ALONG THE LENGTHS AS SHOWN. FIRE HYDRANT ASSEMBLIES ARE TO UTILIZE RESTRAINED JOINTS PER ALBEMARLE COUNTY SERVICE AUTHORITY FIG W-4.
16. FOR WATER METER AND METER VAULT INSTALLATION REFER TO ALBEMARLE COUNTY SERVICE AUTHORITY FIG W-7A. PROPER BACKFLOW DEVICE IS REQUIRED ON DOMESTIC WATER LINE BEFORE ANY BRANCHES OR TAKE-OFFS. THE LOCATION IS TO BE INSIDE THE BUILDING AS SHOWN ON PLUMBING PLANS.
17. ALL WATERLINE LOCATIONS AND CONNECTION POINTS ARE APPROXIMATE. FIELD VERIFY THE LOCATION AND INVERTS OF ALL UTILITY CONNECTIONS. FIELD ADJUSTMENTS OF UTILITY CONNECTIONS MAY BE REQUIRED.
18. ALL GATE VALVES TO BE IN ACCORDANCE WITH ALBEMARLE COUNTY SERVICE AUTHORITY FIG W-5.
19. FOR ALL PUBLIC WATERLINES INSTALLED WITHIN PAVEMENT OR SHOULDERS, THE CONTRACTOR IS REQUIRED TO USE 100% SELECT BACKFILL PER VDOT SPECIFICATIONS.
20. UTILITIES CONTRACTOR TO NOTIFY ENVIRONMENTAL ENGINEERING INSPECTOR AT LEAST 48 HOURS BEFORE FLUSHING THE PROPOSED WATERLINE.
21. ALL EXISTING UTILITIES, SUCH AS VALVE BOXES, AFFECTED BY GRADING OR PAVING OPERATIONS MUST BE ADJUSTED TO FINAL GRADE AFTER CONSTRUCTION.
22. DURING THE CONSTRUCTION OF ANY STRUCTURE OR BUILDING, PERMANENT FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE USE OF COMBUSTIBLE MATERIALS IN CONSTRUCTION BEING COMMENCED ON ANY FLOOR ABOVE THE FIRST OR GROUND FLOOR LEVEL. FIRE HYDRANTS SHALL BE MAINTAINED ACCESSIBLE TO FIREFIGHTING APPARATUS AT ALL TIMES.
23. APPROVAL OF SITE PLAN DOES NOT INCLUDE THE DESIGN OF THE FIRE SPRINKLER SYSTEM UNDERGROUND PIPING FROM BACKFLOW PREVENTION DEVICE TO ONE FOOT ABOVE FINISHED FLOOR LEVEL. PRIOR TO INSTALLATION, SHOP DRAWINGS AND A SEPARATE PERMIT APPLICATION SHALL BE SUBMITTED THROUGH THE DEPARTMENT OF BUILDING INSPECTIONS FOR REVIEW AND APPROVAL.
24. FINAL ACCEPTANCE BY THE ALBEMARLE COUNTY SERVICE AUTHORITY SHALL NOT BE MADE UNTIL ALL WORK SHOWN ON APPROVED UTILITY PLANS IS COMPLETED INCLUDING PAVING, GRADING, AND ALL REQUIRED ADJUSTMENTS.
25. ALBEMARLE COUNTY SERVICE AUTHORITY WILL INSPECT ALL WATER AND SANITARY SEWER MAINS, CONNECTIONS, AND APPURTENANCES THERETO, AS SHOWN ON THE APPROVED UTILITY PLANS, LOCATED WITHIN DEDICATED EASEMENTS AND OR PUBLIC RIGHT OF WAYS. FURTHERMORE, THE ACSA WILL INSPECT ALL PRIVATE SEWER MAINS THROUGH THE LAST MANHOLE.
26. CONCURRENT INSPECTIONS BY BUILDING INSPECTIONS AND ACSA WILL BE PERFORMED FOR THE FOLLOWING: MAINLINE BACKFLOW PREVENTERS; MONITORY MANHOLES; GREASE TRAPS; EXCLUSION METERS; IRRIGATION METERS. ALBEMARLE COUNTY SERVICE AUTHORITY WILL INSPECT TO ENSURE THAT THE PROPER TYPE FACILITY, AS SHOWN ON THE APPROVED UTILITY PLANS, HAS BEEN INSTALLED AND TESTED.
27. ALL VALVES INSTALLED IN PAVEMENT ARE TO HAVE "HEAVY DUTY" COVERS INSTALLED.
28. THE CONTRACTOR IS TO INSTALL A REFLECTIVE FIBERGLASS ROD ON THE BONNET OF ALL FIRE HYDRANTS. THE ROD IS TO BE A MINIMUM OF 60" IN HEIGHT.

FIRE SPRINKLER SYSTEM REQUIREMENTS

1. THE ALBEMARLE COUNTY WATER SERVICE AUTHORITY WILL PERFORM PLAN REVIEW OF THE PROPOSED WATER LINE EXTENSION UP TO THE FIRST OS&Y GATE VALVE LOCATED ON THE INLET SIDE OF THE DOUBLE CHECK ASSEMBLY AND THE PLAN REVIEW OF THE ASSEMBLY AS IT RELATES TO THE BACKFLOW DEVICE, ETC. FOR PIPE RUNS GREATER THAN 100 L.F. (FROM MAIN TO THE VAULT) A GATE VALVE SHALL BE INSTALLED AT THE MAIN AT THE TEE. IN ALL CASES ENGINEER SHALL PROVIDE DETAILS ILLUSTRATING WHAT TYPE OF ANCHORING WILL BE USED ON THE INLET SIDE OF THE ASSEMBLY, SO THAT THE OS&Y VALVE (INLET SIDE) OF THE DOUBLE CHECK ASSEMBLY WILL NOT BLOW OFF WHEN THE DOUBLE CHECK IS REMOVED.
2. THE FIRE ADMINISTRATION WILL REVIEW FROM THE OS&Y GATE VALVE LOCATED ON THE INLET SIDE OF THE DOUBLE CHECK ASSEMBLY TO AND INCLUDING THE BUILDING. THE FIRE DEPARTMENT WILL ALSO REVIEW THE VAULT FOR COMPLIANCE. A SEPARATE PLAN SUBMISSION IS REQUIRED FOR FIRE DEPARTMENT APPROVAL. IN ADDITION, THE SUBMITTAL TO THE FIRE DEPARTMENT SHALL INCLUDE UNDERGROUND PIPE SIZE, LENGTH, LOCATION, WEIGHT, MATERIALS, POINT OF CONNECTION TO COUNTY MAIN, VAULT DETAILS, AND WHAT TYPE OF RESTRAINING DEVICES (THRUST BLOCKS, RETAINER GLANDS, ETC.) WILL BE INSTALLED.
3. AN AUXILIARY MECHANICAL PERMIT ISSUED BY THE BUILDING INSPECTOR'S OFFICE, ALONG WITH FOUR (4) SETS OF PLANS, IS REQUIRED FOR THE WORK FROM THE VAULT TO THE BUILDING AND SHALL BE APPLIED FOR BY THE INSTALLING CONTRACTOR FROM THE BUILDING INSPECTOR'S OFFICE AND PLANS SUBMITTED TO AND REVIEWED BY THE FIRE ADMINISTRATION.
4. THE FIRE ADMINISTRATION DEPARTMENT WILL REVIEW THE LOCATION OF THE VAULT FOR THE DOUBLE CHECK ASSEMBLY AT SUCH TIME A UTILITIES PLAN IS SUBMITTED TO THE ALBEMARLE COUNTY WATER SERVICE AUTHORITY.
5. THE VALVE PIT SHALL BE LOCATED AT OR AS NEAR TO THE PROPERTY LINE AS POSSIBLE AND OUT OF THE MAIN FLOW OF TRAFFIC.
6. THE VAULT SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH "THE ALBEMARLE COUNTY SERVICE AUTHORITY" STANDARD DETAILS

.GENERAL SITE NOTES

1. REFER TO VDOT STANDARD DETAIL CG-12-INS FOR INSTALLATION OF DETECTABLE WARNING SURFACES ON ALL ADA RAMPS.
2. ADA PARKING SPACES AND LOADING AREAS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION. REFER TO GRADING AND SPOT SHOT ELEVATIONS PLANS.
3. ANY SIGN IN EXCESS OF EIGHT (8) SQUARE FEET REQUIRES A PERMIT. PERMIT MUST BE OBTAINED THROUGH THE BUILDING INSPECTION DEPARTMENT. SIGNAGE IS CONTINGENT UPON APPROVAL THROUGH SIGN PERMIT REVIEW PROCESS.
4. ALL VDOT CG-2 INDEPENDENT CURB SHALL HAVE AN EXTRUDED FOOTER.
5. REFER TO THE LATEST EDITION MUTCD FOR ALL STANDARD REGULATORY SIGNS.
6. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER OR GREATER QUALITY OF WORK.
7. ALL EASEMENTS MUST BE RECORDED, UNLESS OTHERWISE NOTED.

REFERENCES

1. STRUCTURAL GRID IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR THE DESIGN AND DETAILS OF PATIOS AND CONCRETE SIDEWALKS COVERED BY ARCHITECTURAL OVERHANGS.
3. ALL BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS.

ACSA STANDARD NOTES AND REQUIREMENTS

1. ALL WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY ACSA INSPECTORS. **THE CONTRACTOR SHALL NOTIFY THE** ALBEMARLE COUNTY SERVICE AUTHORITY, AT 434 977 4511 OR AT 168 SPOTNAP ROAD, CHARLOTTESVILLE, VIRGINIA 22911. **AT LEAST 48 HOURS PRIOR TO THE START OF ANY WATER AND SEWER UTILITY WORK.** FAILURE TO COMPLY OR PROPERLY NOTIFY MAY RESULT IN ADDITIONAL WORK BY THE CONTRACTOR IN ORDER TO PERMIT THE NECESSARY INSPECTION AND/OR DISCONNECTION FROM THE SYSTEM.

ALL MAINLINE TAPS, VALVE OPERATION, OPENING OF HYDRANTS, MANHOLE CORING, ETC. SHALL BE DONE BY ACSA PERSONNEL OR WITH ACSA INSPECTORS PRESENT.

2. FOR DEDICATED FACILITIES SUCH AS TANKS, PUMP STATIONS, BOOSTER STATIONS, ETC., ACSA WILL REQUIRE THE FOLLOWING (DESIGN/CONSTRUCTION):
   - 2.1. THAT ALL SAFETY DEVICES, EQUIPMENT, AND ANY SPECIALIZED PERSONAL PROTECTIVE EQUIPMENT NEEDED FOR THE FACILITY ARE INCLUDED/PROVIDED WITH THE PROJECT DESIGN AND CONSTRUCTION.
   - 2.2. EVALUATION OF ALL PROPOSED DEVICES, EQUIPMENT, AND SPECIALIZED PERSONAL PROTECTIVE EQUIPMENT AGAINST THE APPROVED PRODUCTS LIST AND/OR POLICY REQUIREMENTS.
   - 2.3. THE REQUIREMENTS UNDER SECTION 01110- GENERAL REQUIREMENTS PERTAINING TO SUBMITTALS SHALL APPLY TO ALL SAFETY EQUIPMENT.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE FACILITIES FOR SAFE ACCESS TO THE WORK BY ACSA EMPLOYEES, AS NEEDED.

3. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL JOB SITE SAFETY AND ASSURANCE THAT ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), DEPARTMENT OF LABOR AND INDUSTRY (DOLI), AND THE CURRENT BUILDING CODE ARE MAINTAINED. HOWEVER, IN THE EVENT THAT AN ACSA ENGINEERING TECHNICIAN OBSERVES CONDITIONS THAT COULD ENDANGER LIFE/LIMB OF ANY PERSON ON THE JOB, THE TECHNICIAN WILL IMMEDIATELY NOTIFY THE SITE SUPERINTENDENT/FOREMAN AND THE ACSA ENGINEERING AND ADMINISTRATION OFFICES. IF A JOBSITE SAFETY ISSUE IS CONFIRMED BY THE SUPERINTENDENT/FOREMAN/ACSA AND THE SITUATION CONTINUES, ACSAMAY CONTACT OSHA.

ON-SITE ACSA STAFF WILL REQUIRE A PRECONSTRUCTION SAFETY PLAN BE SUBMITTED FOR REVIEW AT LEAST 48 HOURS PRIOR TO ANY WORK INVOLVING ACSA OWNED FACILITIES REQUIRING CONFINED SPACE ENTRY AND/OR WORKING AT HEIGHTS IN EXCESS OF 6 FEET. THE PLAN MUST BE PREPARED BY A COMPETENT PERSON, AS DEFINED BY OSHA/DOLI, AND THE EMPLOYEED PERFORMING THE WORK MUST HAVE PROPER TRAINING. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A PLAN PREPARED BY AN ENGINEER OR COMPETENT PERSON (IN ACCORDANCE WITH OSHA REQUIREMENTS) FOR ANY TRENCHING ACTIVITIES REQUIRING ENGINEERED SHORING, OR WHERE OTHER HAZARDS SUCH AS TRENCHING WITH WATER ACCUMULATION OR TRENCHING WHERE ADJOINING BUILDING/STRUCTURES ARE ENDANGERED BY THE EXCAVATION.

4. ALL EXISTING UTILITIES ADJACENT TO THE PROPOSED WORK MAY NOT BE AS SHOWN ON THE PLANS AND WHERE SHOWN, ARE ONLY APPROXIMATELY LOCATED. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 800-522-7001 TO HAVE UNDERGROUND UTILITIES MARKED IN ACCORDANCE WITH VIRGINIA'S UNDERGROUND UTILITY DAMAGE PREVENTION ACT.
5. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE MOST CURRENT VERSION OF THE ACSA DESIGN AND CONSTRUCTION STANDARDS AND WATER AND SEWER CONSTRUCTION SPECIFICATIONS.
6. ALL WATER AND SEWER PIPES AND FEATURES SHALL HAVE A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION IN CASE OF NOT ARCHIVED THE SEPARATIONS, THE SEWERS PASSING OVER OR UNDER WATER LINES SHALL BE CONSTRUCTED OF AWWA APPROVED DUCTILE IRON WATER PIPE AND PRESSURE TESTED IN PLACE WITHOUT LEAKAGE PRIOR TO BACKFILLING .
7. A MINIMUM VERTICAL SEPARATION OF 12" IS REQUIRED BETWEEN WATER LINE AND STORM SEWER CULVERT WITH INSULATION TO PREVENT FREEZING OR 3' WITHOUT INSULATION. THE MINIMUM DISTANCE BETWEEN WATERLINES AND STORM DRAINAGE APPURTENANCES WHERE CROSSING SHALL BE TWELVE 12".
8. CONTRACTOR SHALL PROVIDE CERTIFICATION THAT PROPER COMPACTION HAS BEEN OBTAINED FOR ALL BACKFILL OVER AND UNDER WATER AND SEWER LINES AND APPURTENANCES IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS. THIS CERTIFICATION SHALL BE SIGNED BY A PROFESSIONAL GEOLOGIST OR ENGINEER AND STATE THE EXACT AREA TO WHICH THE CERTIFICATION APPLIES. TESTING SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
9. VALVES ON DEAD-END LINES SHALL BE RESTRAINED IN ACCORDANCE WITH APPLICABLE STANDARD DETAILS.
10. WATER LINES SHALL NOT BE PLACED WITHIN 30 HORIZONTAL FEET OF EXISTING OR PROPOSED SANITARY DRAIN FIELDS AND SEPTIC TANKS. WATER OR SEWER LINES SHALL NOT BE PLACED WITHIN 30 HORIZONTAL FEET OF EXISTING OR PROPOSED UNDERGROUND STORAGE TANKS.
11. JOINT RESTRAINT SHALL BE PROVIDED FOR ALL BENDS, TEES, DEAD END LINES, AND STUBOUTS, IN ACCORDANCE WITH THE APPLICABLE STANDARD DETAILS.
12. WHEN LOCATED IN VDOT RIGHTS-OF-WAY FIRE HYDRANTS AND ALL OTHER APPURTENANCES SHALL BE LOCATED BEHIND THE DITCH LINE.
13. CONTRACTOR SHALL MAINTAIN WATER AND SEWER SERVICE TO ALL EXISTING CUSTOMERS THROUGHOUT CONSTRUCTION. THIS MAY REQUIRE TEMPORARY LINES, CONNECTIONS, AND/OR PUMPING.

GEOTECHNICAL NOTES

1. ALL CONTROLLED FILL ZONES ARE TO BE MONITORED BY A FULL TIME GEOTECHNICAL ENGINEERING SERVICE FIRM.
2. ENGINEERED FILLS SHALL BE PROPERLY PLACED ACCORDING TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND THE EARTHWORK SPECIFICATIONS.
3. ALL SUMMARY REPORTS FROM THE GEOTECHNICAL ENGINEER REPRESENTING THE PROJECT MUST STATE HIS PROFESSIONAL OPINION ON THE SATISFACTORILY COMPLETED PHASES OF CONSTRUCTION, SUCH AS; SLOPE CUTS, SUBDRAINAGE SYSTEMS, PREPARATION OF SUBGRADES AND COMPACTION OF EARTH FILLS.
4. NO FILLS SHALL HAVE ZONES THAT EXCEED TWO (2) FEET IN ELEVATION WITHOUT CONDUCTING COMPACTION TESTS AND OBTAINING RESULTS 95% OR GREATER IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR.
5. ANY BORROW MATERIAL SHALL HAVE A MINIMUM CBR VALUE OF TEN (10).
6. THE GEOTECHNICAL ENGINEER MUST SUBMIT DAILY FIELD REPORTS, ITEMIZING THE FIELD DENSITY TEST RESULTS. THESE REPORTS SHALL BE ACCOMPANIED WITH A COPY OF THE SITE PLAN SHEET AND INDICATE THE TEST LOCATIONS & ELEVATIONS. THE GEOTECHNICAL ENGINEER MUST PROVIDE ENOUGH DESIGNATED TESTING IN ALL FILL ZONES TO ADEQUATELY EXAMINE & CERTIFY THE INTEGRITY OF THE FILL.
7. THE GEOTECHNICAL ENGINEER MUST SUBMIT A CERTIFIED BUILDING PAD REPORT FOR EACH FILL PAD LOCATION. THIS REPORT SHALL PROFILE THE FILL MATERIAL PLACEMENT AND PROVIDE THE COMPACTION TEST RESULTS. ALL REPORTS WILL BE ACCOMPANIED BY THE SITE PLAN, INDICATING THE TEST LOCATIONS & ELEVATIONS.
8. THESE GEOTECHNICAL NOTES SHALL IN NO WAY LESSEN THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS.

PAVEMENT / TRENCH NOTES

1. TEST SPACING AND METHODS MUST FOLLOW THE APPROVED GUIDELINES SET FORTH AND/OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. DEMOLITION OF EXISTING ASPHALT PAVEMENT TO BE IN ACCORDANCE WITH VDOT SPECIFICATIONS. IN AREAS WHERE FILL IS LESS THAN 3'0", THE PAVEMENT SHALL BE HAULED OFF-SITE. WHERE FILL IS 3'0" OR GREATER, THE PAVEMENT SHALL BE PULVERIZED AND LEFT IN PLACE.
3. PAVEMENT RESTORATION WIDTH VARIES DEPENDING ON EXISTING PAVEMENT AGE AND CONDITION AND MAY BE AS WIDE AS 4 TIMES THE TRENCH WIDTH ON BOTH SIDES. REFER TO VDOT TRENCH CUT RESTORATION GUIDELINES.
4. SELECT FILL PIPE BACKFILL (VDOT #21A) REQUIRED IN RIGHT-OF-WAY COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR.
5. ALL OTHER PIPE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR.

WATER / SEWER MATERIAL NOTES

SANITARY SEWER LINE

1. PVC GRAVITY SEWER PIPE SHALL BE MANUFACTURED OF COMPOUNDS CONFORMING TO ASTM D-1784 CURRENT REVISION.PIPE AND FITTINGS SHALL MEET AND/OR EXCEED ALL THE REQUIREMENTS OF ASTM SPECIFICATION D-3034 PSM SDR 26. PVC PIPE SHALL BE JOINED BY BELL AND SPIGOT TYPE CONNECTIONS. THE PIPE JOINT SHALL BE TIGHTLY SEALED AGAINST INFILTRATION AND EXFILTRATION BY MEANS OF A LOCKED-IN RUBBER SEALING RING CONFORMING TO ASTM D-3212 CURRENT REVISION. THE CONNECTION GASKETS FOR SEWER PIPE AND FITTINGS SHALL BE VULCANIZED NATURAL OR VULCANIZED SYNTHETIC RUBBER FREE OF POROUS AREAS, FOREIGN MATERIAL OR VISIBLE DEFECTS. RUBBER GASKETS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF AWWA C111 CURRENT REVISION.
2. DUCTILE IRON PIPE SHALL BE CENTRIFUGALLY CAST PIPE MANUFACTURED IN ACCORDANCE WITH AWWA/ANSI C151/A21 CURRENT REVISION, CLASS 50, 51, OR 52, AS CONDITIONS REQUIRE. ALL DUCTILE IRON PIPE SHALL HAVE A CEMENT MORTAR LINING AND A SEAL COAT OF ASPHALTIC MATERIAL IN ACCORDANCE WITH AWWA/ANSI C104/A21 CURRENT REVISION.
3. PIPE BEDDING FOR GRAVITY SEWER LINES SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.

WATERLINE

1. PVC PIPE AND FITTINGS SHALL BE SCHEDULE 80 AND ONLY BE USED FOR CASING PIPE FOR COPPER WATER SERVICE LINES IN VDOT RIGHTS-OF-WAY. SCHEDULE 80 PVC PIPE SHALL CONFORM TO ASTM D1785, CURRENT REVISION, AND SCHEDULE 80 PVC FITTINGS SHALL CONFORM TO ASTM D2467, CURRENT REVISION.
2. DUCTILE IRON PIPE SHALL BE CENTRIFUGALLY CAST PIPE MANUFACTURED IN ACCORDANCE WITH AWWA/ANSI C151/A21.51, CURRENT REVISION. THE JOINTS SHALL BE PUSH-ON, MECHANICAL OR FLANGED IN ACCORDANCE WITH AWWA/ANSI C111/A21.11, CURRENT REVISION. ALL DUCTILE IRON PIPE SHALL HAVE A CEMENT MORTAR LINING IN ACCORDANCE WITH AWWA/ANSI C104/A21.4, CURRENT REVISION.
3. PIPE BEDDING AND BACKFILL FOR PRESSURE LINES SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES

1. THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VDOT *ROAD AND BRIDGE SPECIFICATIONS*, *ROAD AND BRIDGE STANDARDS*, *WORK AREA PROTECTION MANUAL*, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE PAPER COPY OF THE PLAN ASSEMBLY.
2. THE ALBEMARLE COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY PLANS TO BEGIN CLEARING AND GRADING OPERATIONS.
3. CONTRACTOR SHALL CALL "MISS UTILITY" 72 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN, TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).
4. CONTRACTOR SHALL ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS, AND FURNISH COPIES TO THE OWNER.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED COUNTY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE CHIEF INSPECTOR 48 HOURS PRIOR TO THE START OF WORK.
6. CONSTRUCTION STAKING SHALL BE DONE ONLY BY A LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF VIRGINIA.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT AND A VDOT LAND USE PERMIT FROM THE COUNTY AND VDOT RESPECTIVELY PRIOR TO ORDERING MATERIALS OR COMMENCING WORK.
8. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (USC & GS DATUM). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF PROPER TOP ELEVATIONS BEFORE CONSTRUCTION OF MANHOLES.
10. IN ACCORDANCE WITH HANDICAP ACCESSIBILITY REQUIREMENTS, ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY FOR DISABLED PERSONS SHALL BE STRICTLY COMPLIED WITH.
11. PER ADA REQUIREMENTS, ALL SIDEWALKS AND MARKED CROSSWALKS CONSTRUCTED MUST NOT EXCEED A 2.0% CROSS SLOPE, AND A 5.0% LONGITUDINAL SLOPE (MAXIMUM PER ADA REQUIREMENTS). MARKED ACCESSIBLE PARKING SPACES MUST NOT EXCEED A 2.0% GRADE IN ANY DIRECTION.
12. ALL CURB AND GUTTER SHALL BE CG-6 & CG-2 ON SITE AND WITHIN THE VDOT RIGHT-OF-WAY, UNLESS OTHERWISE NOTED ON PLANS.
13. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED ON PLANS.
14. PERMIT TO TIE TO EXISTING ROAD SHALL BE OBTAINED BY CONTRACTOR FROM VDOT RESIDENT ENGINEER PRIOR TO CONSTRUCTION OF ENTRANCE.
15. WHERE ANY EXISTING PAVEMENT (SHOULDER OR TRAVEL LANE) IS PROPOSED TO BE MODIFIED IN ANY WAY, PROPER RECONSTRUCTION AND/OR OVERLAY SHALL BE DONE. THIS IS TO PROVIDE A SMOOTH SURFACE WITHOUT TRANSITIONAL ROUGHNESS.
16. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE AND POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. ANY SUBGRADE SOILS WHICH HAVE BEEN WEAKENED DUE TO INADEQUATE DRAINAGE, SATURATION AND/OR DISTURBANCE BY CONSTRUCTION SHALL BE UNDER-CUT AND REPLACED WITH COMPACTED STRUCTURAL FILL AT NO ADDITIONAL COST TO THE OWNER.
17. WHENEVER THE CONTRACTOR'S OPERATIONS AFFECT VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY AND ALL SAFETY CONTROL DEVICES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL AND AS DEEMED NECESSARY BY VDOT AND THE ENGINEER. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID.
18. ALL SIGNS AND MARKINGS IN CONFLICT WITH ROADWAY CONSTRUCTION SHALL BE REMOVED AND RESET AS DIRECTED BY THE VDOT RESIDENCY ENGINEER.

GENERAL EROSION CONTROL NOTES

1. ALL EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK.
2. ALL EROSION AND SILTATION MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN SEVEN DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ONE TIME.
4. ALL TEMPORARY EARTH BERMS, DIVERSIONS, AND SILT DAMS ARE TO BE MULCHED AND SEEDED FOR VEGETATIVE COVER IMMEDIATELY AFTER GRADING, STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO STOCKPILES ON SITE AS WELL AS SOIL (INTENTIONALLY) TRANSPORTED FROM THE PROJECT SITE.
5. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL.
6. TEMPORARY SEEDING WILL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. FOR TEMPORARY SEEDING USE FIFTY PERCENT OF THE RECOMMENDED RATES OF FERTILIZER AND LIME, AND FULL AMOUNTS OF SEED AND MULCH REQUIRED FOR REGULAR SEEDING.
7. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY SILT TRAPS, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
8. ANY DISTURBANCE AREA NOT PAVED, SODDED, OR BUILT UPON BY NOVEMBER 1ST, IS TO BE SEEDED ON THAT DATE WITH OATS, ABRUZZI, RYE, OR EQUIVALENT AND MULCHED WITH HAY OR STRAW MULCH. MODIFY AS APPLICABLE DEPENDING ON PROPOSED TIME OF CONSTRUCTION.

GENERAL STORM SEWER / STORMWATER NOTES

1. BOOT CONNECTORS MUST BE USED WHERE PLASTIC PIPES ARE CONNECTED TO CONCRETE STRUCTURES.
2. USE TYPE 'B' NOSE FOR CURB INLET STRUCTURES.
3. HDPE PIPING TO BE N-12 PIPE TYPE S, AASHTO M294 (PIPE SIZES 12" AND GREATER), AND AASHTO M252 (PIPE SIZES 4" TO 10") OR EQUIVALENT.
4. ALL STORM SEWER PIPES TO HAVE A WATERTIGHT CONNECTION. ALL HDPE PIPE JOINTS TO BE WATERTIGHT PER ASTM D3212 OR EQUIVALENT.
5. REFER TO GRADING & DRAINAGE PLANS FOR ROOF AND YARD DRAINAGE SYSTEMS.
6. STEPS WILL BE REQUIRED IN ALL STRUCTURES HAVING A DEPTH OF 4'-0" OR GREATER UNLESS OTHERWISE NOTED.
7. SUMPS IN PLASTIC DRAIN BASINS TO BE FILLED WITH GROUT TO THE INVERT OUT.
8. PLASTIC DRAIN BASIN TOPS TO HAVE H10 LOCKING TOP UNLESS OTHERWISE NOTED. PLASTIC DRAIN BASINS WITHIN VEHICLE TRAFFIC PAVEMENT AREAS TO HAVE H20 LOADING RATED TOPS (LOCKING).
9. PLASTIC DRAIN BASINS LOCATED IN PAVEMENT AREAS TO HAVE CONCRETE COLLARS. REFER TO MANUFACTURER'S DETAIL SPECIFICATIONS.
10. COORDINATE AND REFER TO PLUMBING PLANS FOR BUILDING ROOF DRAIN AND CONDENSATE LINE CONNECTIONS WITHIN 5 FEET OF THE BUILDING.
11. CONTRACTOR IS RESPONSIBLE FOR ALL DOCUMENTATION RELATING TO STORMWATER BMP(s) AS-BUILTS AND CERTIFICATIONS REQUIRED BY THE LOCALITY AND MS-4 OPERATOR.

GENERAL ALIGNMENT AND DIMENSION NOTES

1. DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED ON THE PLANS.
2. WIDTHS OF SIDEWALKS ADJACENT TO CURB OR CURB AND GUTTER ARE TO BE MEASURED FROM THE BACK OF CURB.

GENERAL CONCRETE PAVEMENT NOTES

1. THE CONCRETE JOINT LAYOUT SHOWN IS A BASIS OF DESIGN ONLY. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN FOR REVIEW BASED ON THE ANTICIPATED POUR METHODOLOGY.
2. REFER TO SPECIFICATIONS FOR THE SUBMISSION REQUIREMENTS.

GENERAL CROSS CONNECTION NOTES

1. CROSS CONNECTIONS AND BACKFLOW PREVENTION METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITIONS OF THE FOLLOWING:
   - 1.1. THE ALBEMARLE COUNTY SERVICE AUTHORITY PROCEDURES.
   - 1.2. WATERWORKS REGULATIONS, VA DEPARTMENT OF HEALTH, OFFICE OF WATER PROGRAMS.
   - 1.3. UNIFORM STATEWIDE BUILDING CODE; VA DEPT OF HOUSING & COMMUNITY DEVELOPMENT.
2. PRIOR TO FINAL UTILITIES INSPECTION THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL THE NEW POTABLE SERVICE, IRRIGATION SERVICE AND FIRE SERVICE BACKFLOW PREVENTION ASSEMBLIES TESTED BY A BACKFLOW PREVENTION DEVICE WORKER HOLDING A VALID CERTIFICATION ISSUED BY THE VIRGINIA DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION.
3. THEREAFTER, TESTS ON THE BACKFLOW PREVENTION ASSEMBLIES SHALL BE CONDUCTED ANNUALLY. THE RESULTS OF ALL TESTS SHALL BE SENT TO THE DEPARTMENT OF UTILITIES / CROSS CONNECTION CONTROL COORDINATOR, IMMEDIATELY UPON COMPLETION OF THE TEST.

FIRE PREVENTION NOTES

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 STATEWIDE 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 OR FIREFIGHTING AND EMERGENCY OPERATIONS SHALL 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 INCHES 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 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 ACCUMULATED, IN EVERY STORAGE AND CONSTRUCTION SHED AND IN AREAS OF SPECIAL; HAZARDS SUCH AS WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE STORED AND 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 PREVENTION CODE AND SHALL REQUIRE A PERMIT FROM THE ALBEMARLE COUNTY FIRE MARSHAL'S OFFICE.

GENERAL NOTES

1. RETAINING WALLS GREATER THAN 3 FEET IN HEIGHT REQUIRE A SEPARATE BUILDING PERMIT. WALLS EXCEEDING 4 FEET IN HEIGHT REQUIRE A STAMPED ENGINEERED DESIGN ALSO. SEGMENTAL WALLS REQUIRE RDP INSPECTIONS, OTHERS WILL REQUIRE INSPECTIONS AS OUTLINED IN THE USBC.
2. ACCESSIBLE PARKING SPACES, ACCESS ISLES, AND ACCESSIBLE ROUTE SHALL BE INSTALLED IN ACCORDANCE WITH ICC ANSI A117.1-17 AND THE 2021 VIRGINIA CONSTRUCTION CODE.
3. ALL WATER LINES, SEWER LINES, AND FIRE LINES FROM THE MAIN TO THE STRUCTURE LOCATED ON PRIVATE PROPERTY MUST HAVE A VISUAL INSPECTION PERFORMED BY THE BUILDING DEPARTMENT.
4. WHERE THE FLOOD LEVEL RIMS OF PLUMBING FIXTURES ARE BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER, THE FIXTURES SHALL BE PROTECTED BY A BACKWATER VALVE INSTALLED IN THE BUILDING DRAIN, BRANCH OF THE BUILDING DRAIN OR HORIZONTAL BRANCH SERVING SUCH FIXTURES. PLUMBING FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT DISCHARGE THROUGH A BACKWATER VALVE.
5. ALL ROOF DRAINS SHALL DISCHARGE IN A MANNER NOT TO CAUSE A PUBLIC NUISANCE AND NOT OVER SIDEWALKS.
6. 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 FOR DEMOLITION PROJECTS AT 540-562-3580x131.
7. ALL FIRE HOSE THREADS SHALL BE C & O TYPE.

TIMMONS GROUP SURVEY NOTES

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: DECEMBER 20 & 21, 2023; JANUARY 01, 02, 04-05, 08, 10-11, 15, & 17 2024. THIS BASE-MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

SURVEY NOTES:

1. PROPERTY & ZONING INFORMATION:

OWNER:	ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL AUTHORITY
REFERENCE:	DB. 287, PG. 414
COUNTY TAX MAP NUMBER:	77-11A (07700-00-00-011A0)
PROPERTY ADDRESS:	160 PEREGORY LANE
AREA:	8.25 ACRES (GIS)
ZONED:	R1 (RESIDENTIAL)

OWNER:	BLUE RIDGE JUVENILE DETENTION COMMISSION
REFERENCE:	DB. 1825, PG. 37
COUNTY TAX MAP NUMBER:	76M1-19 (076M1-00-00-01900)
PROPERTY ADDRESS:	195 PEREGORY LN
AREA:	7.72 ACRES (GIS)
ZONED:	R1 RESIDENTIAL

2. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON:
a) LAND RECORDS OBTAINED (& REFERENCED) FROM THE CLERK'S OFFICE OF ALBEMARLE COUNTY, VA;
b) FIELD SURVEY BY THIS FIRM FOR RECOVERY AND VERIFICATION OF EXISTING PROPERTY CORNERS AS SHOWN HEREON.

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. 51003C0288D, (PANEL 288 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 MOORE'S CREEK WATERSHED PER COUNTY GIS; PROPERTY IS NOT 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. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN A DAM INUNDATION ZONE.

12. MANAGED STEEP SLOPES ARE PRESENT ON / WITHIN PROPERTY. NO PRESERVED STEEP SLOPES ARE PRESENT ON/WITHIN THE PROPERTY. CRITICAL SLOPES MAY EXIST ON PROPERTY, REGULATED BY ORDINANCE.

13. CONTOUR INTERVAL = 1'

PARKING REQUIREMENTS

ALBEMARLE COUNTY PLANNING STAFF DECIDED THAT THIS FACILITY QUALIFIES AS A SPECIAL USE CASE FOR PARKING REQUIREMENTS. IF THE FACILITY OWNERS AGREE THAT THE PROPOSED PARKING COUNT IS SUFFICIENT, THEN THE PARKING CRITERIA IS MET. SEE LETTER FROM ALBEMARLE COUNTY JAIL STAFF CONFIRMING THE PROPOSED PARKING COUNT IS SATISFACTORY FOR THEIR USE.

TOTAL PROPOSED: 63

VDOT CONSTRUCTION STANDARDS

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR TO VDOT STANDARDS ANY DAMAGE FROM PROPOSED STRUCTURE MODIFICATIONS, SUCH AS CUTTING IN FOR THE NEW PIPE CONNECTION.

ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THESE DRAWINGS, PROJECT SPECIFICATIONS, STANDARDS WITH ALL CURRENT APPLICABLE CODES, AND, UNLESS OTHERWISE SPECIFIED, WITH THE CURRENT EDITIONS AND LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS:

- VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD & BRIDGE SPECIFICATIONS
- VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD & BRIDGE STANDARDS
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- VIRGINIA SUPPLEMENT TO THE MUTCD
- INSTRUCTIONAL AND INFORMATIONAL MEMORANDA (IM)
- VIRGINIA WORK AREA PROTECTION MANUAL

SPECIFIC STANDARDS AND DETAILS FROM THE CURRENT AND OR REVISED VERSION OF THE 2016 VDOT ROAD AND BRIDGE STANDARDS INCLUDE:

CG-12, CG-2, CG-6, WP-2, GR-2, 2A, DI-7, DI-7, 7A, 7B, DI-3A, 3B, 3C, DI-1A, DI-3AA, 3BB, 3CC, DI-2A, 2B, 2B, SL-1, IS-1, IC-2, SWM-DR, MH-2, MH-1, EC-1, ST-1, SWM-1, S-1, S-2

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COMMONWEALTH OF VIRGINIA
Thad Rich
THADDAEUS P. RICH
Lic. No. 062377
20 DEC 2024
PROFESSIONAL ENGINEER

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62567-305

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

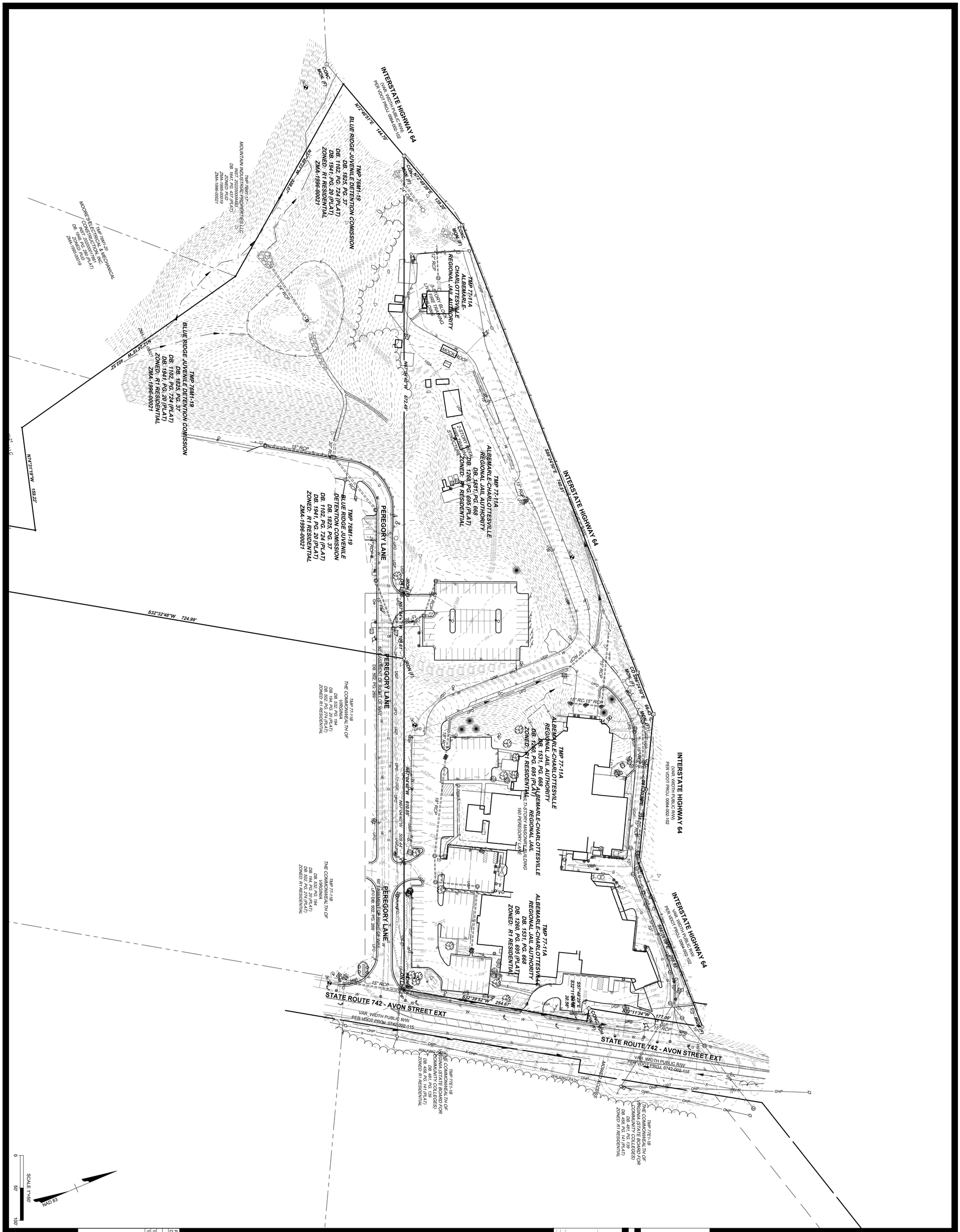
REVISIONS

DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

GENERAL NOTES AND DETAILS

C002

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C100

OVERALL EXISTING CONDITIONS & TOPOGRAPHY

PROJECT NO. 62567	DECEMBER 20, 2024
REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

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INTERSTATE HIGHWAY 64
(VAR. WIDTH PUBLIC R/W)
PER VDOT PROJ. 0064-002-102

INTERSTATE HIGHWAY 64
VAR. WIDTH PUBLIC R/W
PER VDOT PROJ. 0064-002-102

STATE ROUTE 742 - AVON STREET EXT
VAR. WIDTH PUBLIC R/W
PER VDOT PROJ. 0742-002-115

TMP 77-11A
ALBEMARLE-CHARLOTTESVILLE
REGIONAL JAIL AUTHORITY
DB. 1531, PG. 668
DB. 1260, PG. 695 (PLAT)
ZONED: R1 RESIDENTIAL

ALBEMARLE-CHARLOTTESVILLE
REGIONAL JAIL
MULTI-STORY MASONRY BUILDING
160 PEREGORY LANE

PEREGORY LANE
60' EASEMENT OF RIGHT OF WAY
DB. 502, PG. 269

TMP 77-11B
THE COMMONWEALTH OF
VIRGINIA
DB. 532, PG. 194
DB. 194, PG. 20 (PLAT)
DB. 502, PG. 274 (PLAT)
ZONED: R1 RESIDENTIAL

TMP 77E1-1B
THE COMMONWEALTH OF
VIRGINIA (STATE BOARD FOR
COMMUNITY COLLEGES)
DB. 491, PG. 139
DB. 458, PG. 141 (PLAT)
ZONED: R1 RESIDENTIAL

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JAIL
ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632562
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

EXISTING CONDITIONS & TOPOGRAPHY

C101

SCALE 1"=20'
0 20' 40'

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ALBEMARLE COUNTY REGIONAL JAIL
EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632562
DATE: DECEMBER 20, 2024
REVISIONS
DATE / DESCRIPTION
10-09-24 / 1ST SUBMISSION
12-20-24 / 2ND SUBMISSION

DEMOLITION PLAN

C121

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Lic. No. 060377
30 DEC 2024
PROFESSIONAL ENGINEER

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GENERAL DEMOLITION NOTES

1. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY DEMOLITION ACTIVITIES.
2. REMOVE ALL MATERIALS, STRUCTURES, ETC. NOT INDICATED FOR DEMOLITION TO PRECONSTRUCTION CONDITION OR BETTER.
3. ALL PAVEMENT SAW CUTS ARE TO BE IN CONTINUOUS STRAIGHT LINES AND/OR SMOOTH ARCS. REFER TO VDOT STANDARD DETAIL WP-2 FOR ADDITIONAL REQUIREMENTS.
4. REMOVAL OF FENCING INCLUDES, BUT IS NOT LIMITED TO FENCING, POSTS, GATES, FOOTERS, AND ANY RELATED ITEMS.
5. REMOVAL OF PAVEMENT INCLUDES FULL DEPTH OF PAVEMENT AND SUBBASE.
6. FOR ALL UNDERGROUND UTILITY DEMOLITION OR ABANDONMENT, COORDINATE WITH UTILITY OWNER FOR PROPER REMOVAL AND CAPPING OR ABANDONMENT PROCEDURES.
7. ALL PHASE I EROSION CONTROL MEASURES MUST BE INSTALLED AND APPROVED BY THE ENVIRONMENTAL INSPECTOR FOR THE PROJECT PRIOR TO START OF ANY DEMOLITION ACTIVITIES.
8. A LAND DISTURBANCE PERMIT IS REQUIRED PRIOR TO DEMOLITION WORK.

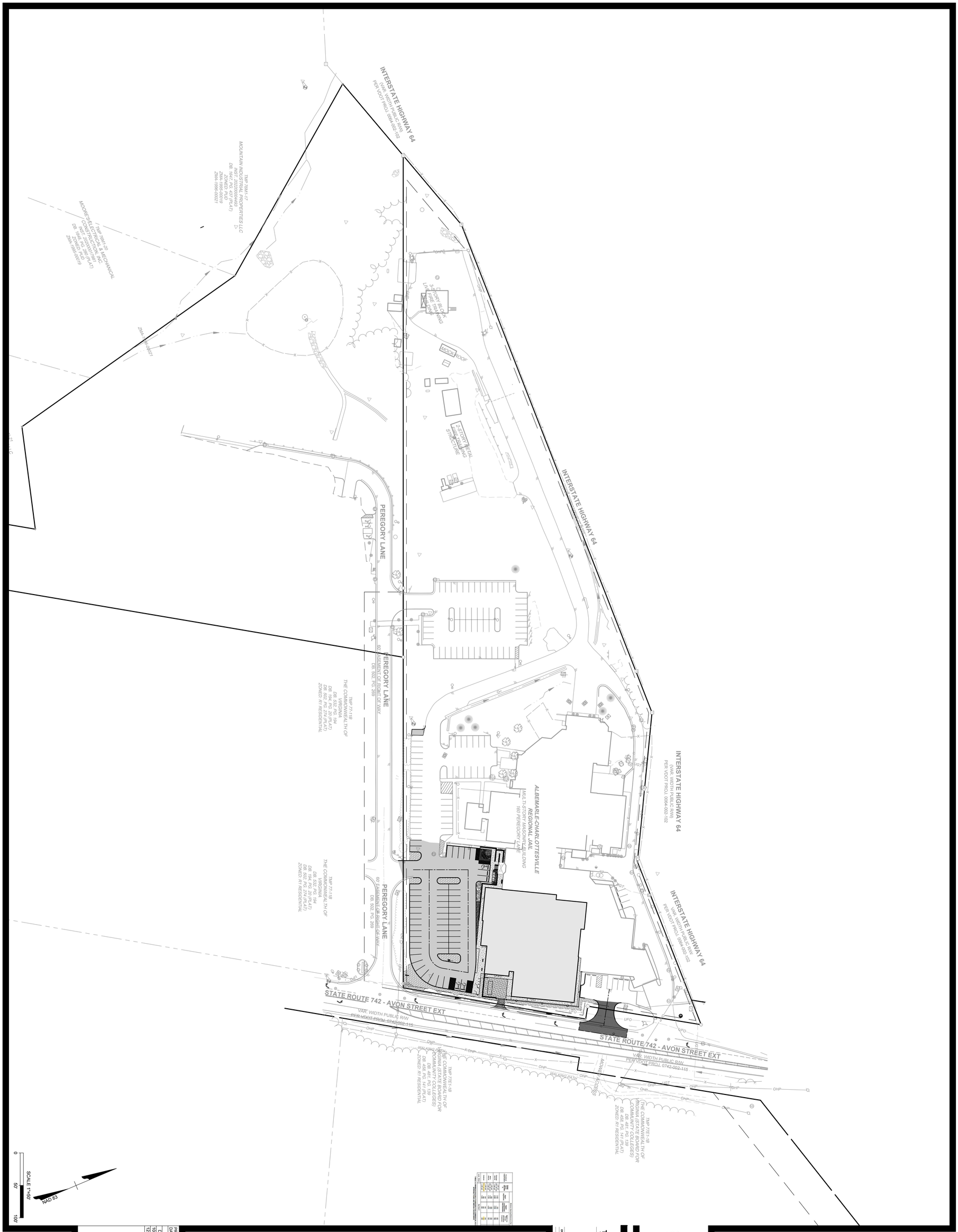
DEMOLITION LEGEND:

- X — REMOVE
- ▨ — REMOVE
- ⋰⋰⋰ — REMOVE ASPHALT SURFACE
- ----- — SAWCUT PAVEMENT
- ~v~ — UNDERGROUND UTILITY RELOCATION/DEMOLITION

NAD 83

SCALE 1"=20'
0 20' 40'

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C300

OVERALL SITE PLAN

PROJECT NO: 62567
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

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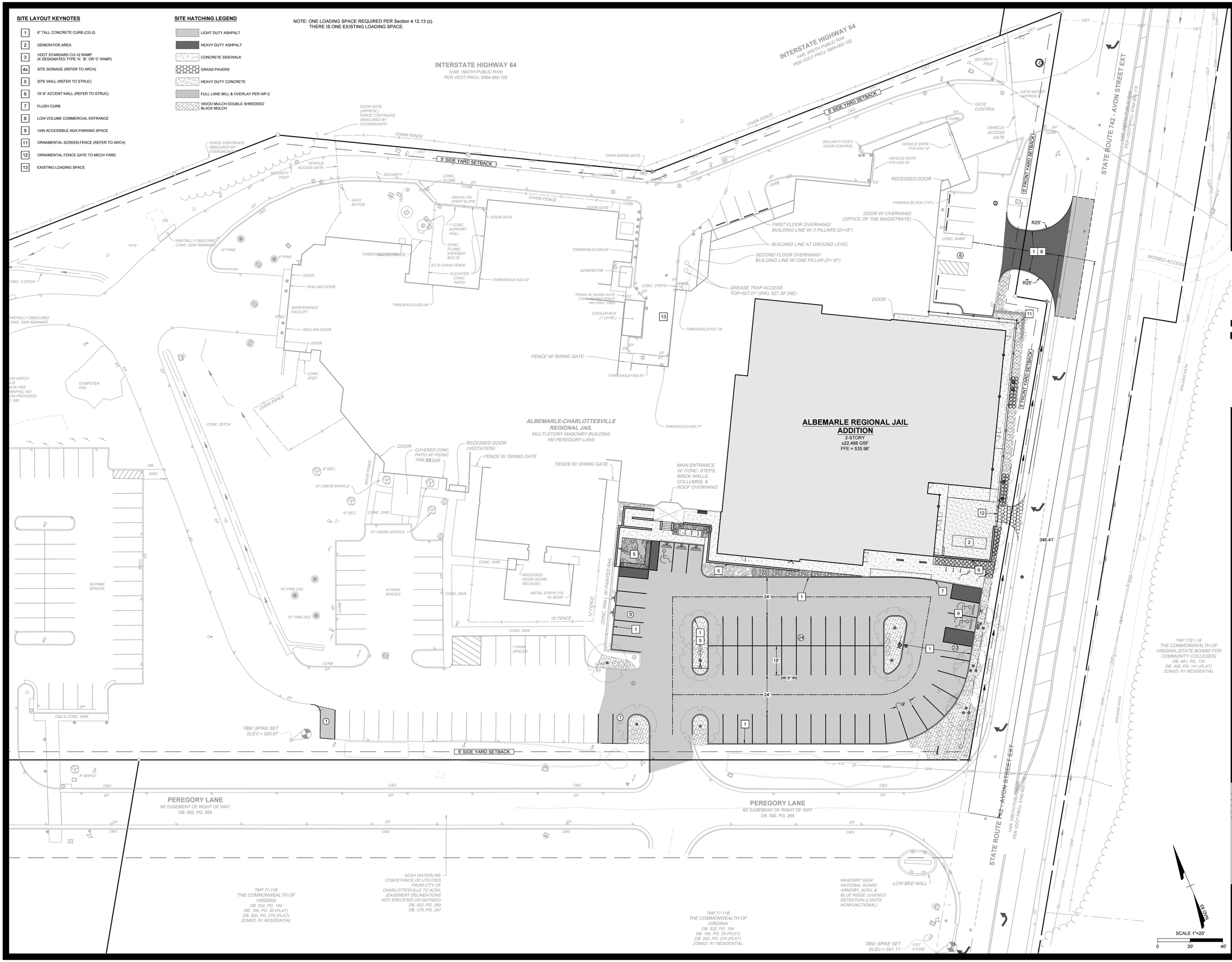
SITE LAYOUT KEYNOTES

1	6" TALL CONCRETE CURB (CG-2)
2	GENERATOR AREA
3	VDOT STANDARD CG-12 RAMP (X DESIGNATES TYPE 'A', 'B', OR 'C' RAMP)
4x	SITE SIGNAGE (REFER TO ARCH)
5	SITE WALL (REFER TO STRUC)
6	10'-8" ACCENT WALL (REFER TO STRUC)
7	FLUSH CURB
8	LOW VOLUME COMMERCIAL ENTRANCE
9	VAN ACCESSIBLE ADA PARKING SPACE
11	ORNAMENTAL SCREEN FENCE (REFER TO ARCH)
12	ORNAMENTAL FENCE GATE TO MECH YARD
13	EXISTING LOADING SPACE

SITE HATCHING LEGEND

- LIGHT DUTY ASHPALT
- HEAVY DUTY ASHPALT
- CONCRETE SIDEWALK
- GRASS PAVERS
- HEAVY DUTY CONCRETE
- FULL LANE MILL & OVERLAY PER WP-2
- WOOD MULCH DOUBLE SHREDDED BLACK MULCH

NOTE: ONE LOADING SPACE REQUIRED PER Section 4.12.13 (c).
THERE IS ONE EXISTING LOADING SPACE.



MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
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COMMONWEALTH OF VIRGINIA
THADDARUS P. RICH
Lic. No. 062377
20 DEC 2024
PROFESSIONAL ENGINEER

TIMMONS GROUP
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ALBEMARLE COUNTY REGIONAL JAIL
EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

SITE PLAN

C301

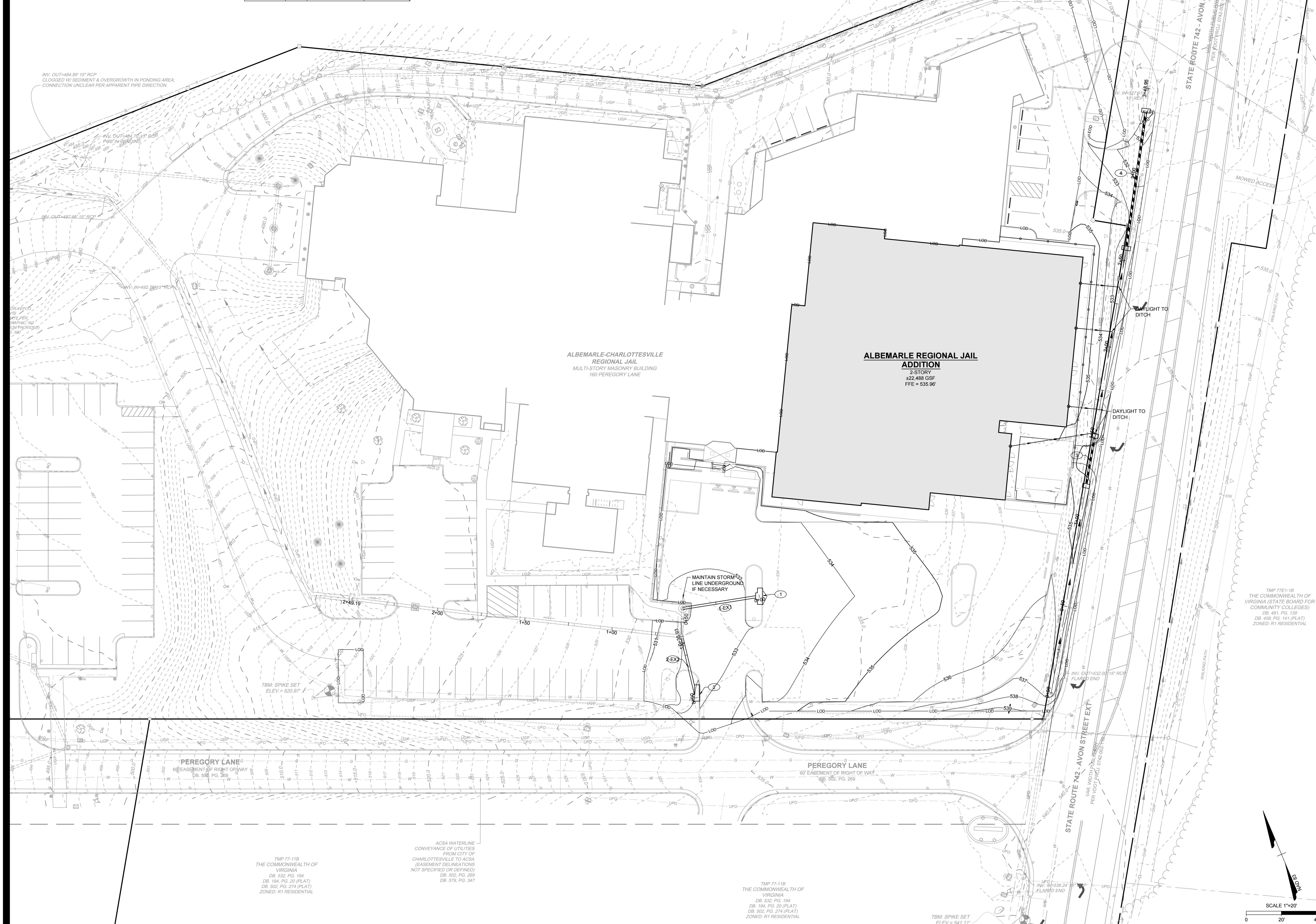
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STORM PIPE TABLE

PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
1-EX1	15"	1 - EX1	529.24	527.58	3.77%	44.09 LF	15" HDPE
2-EX2	15"	2 - EX2	527.63	525.41	6.17%	35.93 LF	15" HDPE
3	12"	12 - 13	534.28	533.86	1.50%	28.24 LF	12 inch RCP
4	15"	14 - 15	531.77	528.62	4.01%	78.59 LF	15 inch RCP

STORM STRUCTURE TABLE

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
1	533.46	4.22'	DI-3C 8 ft Throat
2	533.12	5.50'	DI-3B 8 ft Throat
12	535.53	529.39'	EW-1 for 12" Pipe
13	535.11	528.98'	EW-1 for 12" Pipe
14	533.30	526.49'	EW-1 for 15" Pipe
15	530.14	524.97'	EW-1 for 15" Pipe



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ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

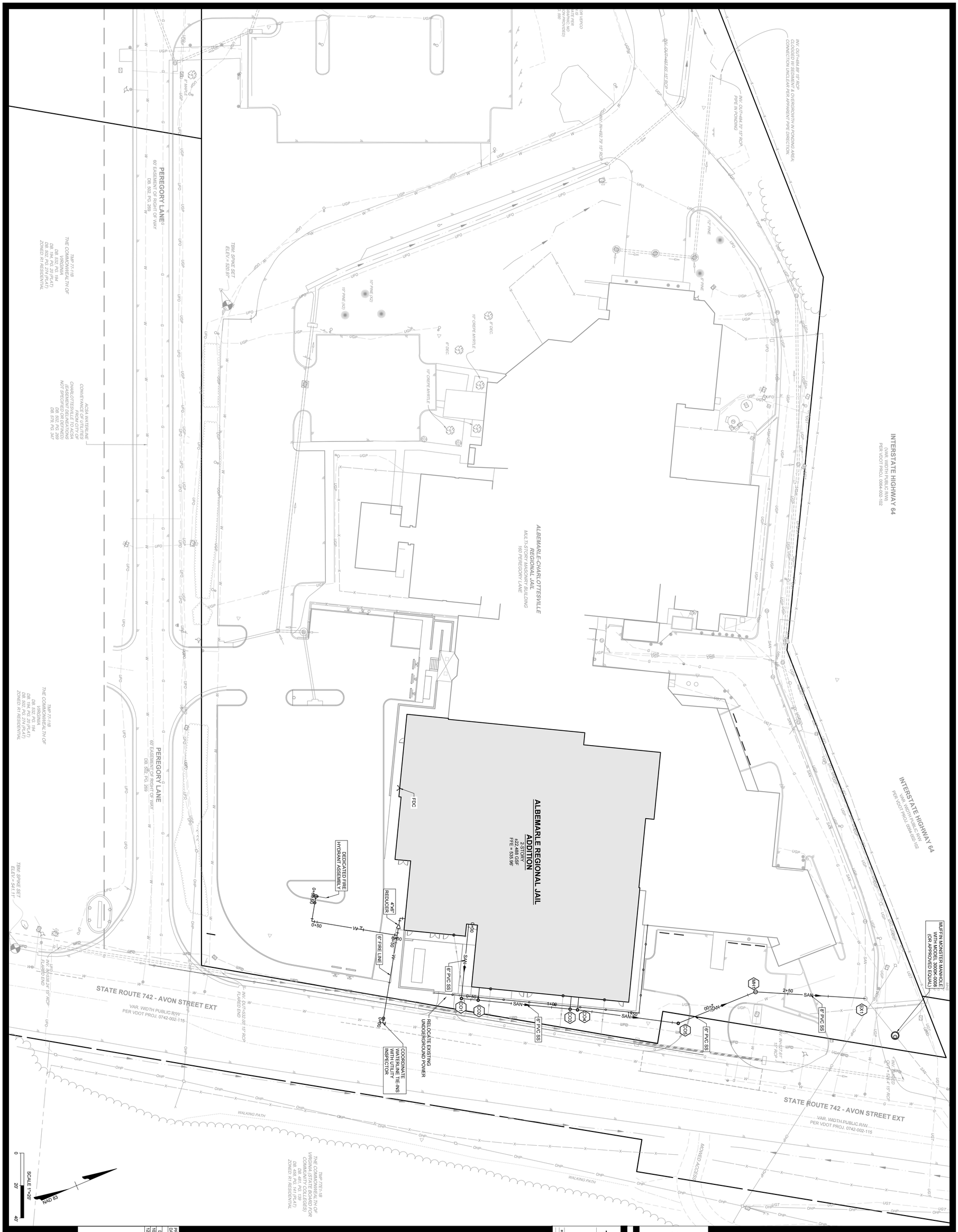
PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

GRADING PLAN

C401

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C601

UTILITY PLAN

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

PROJECT NO. 62567
DATE: DECEMBER 20, 2024

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

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PROFESSIONAL ENGINEER
THADDEUS P. RICH
Lic. No. 066277
20 DEC 2024

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PLANT KEY	
CODE	BOTANICAL NAME
TREES	
BET DUR	BETULA NIGRA `DURAHEAT`
QUE PHE	QUERCUS PHELLOS
ULM JEF	ULMUS AMERICANA `JEFFERSON`
DECIDUOUS SHRUBS	
HAM VIR	HAMAMELIS VIRGINIANA
ILE RED	ILEX VERTICILLATA `RED SPRITE`
RHU TYP	RHUS TYPHINA
EVERGREEN SHRUBS	
ILE INK	ILEX GLABRA `COMPACTA`
ILE GEM	ILEX GLABRA `GEM BOX`
GROUNDCOVER	
RHU GRO	RHUS AROMATICA `GRO-LOW`
ORNAMENTAL GRASSES	
PAN SHD	PANICUM VIRGATUM `SHENANDOAH`

LANDSCAPE MATERIALS KEY

SYMBOL	CODE	DESCRIPTION
01 GENERAL		
	01-01	WOOD MULCH DOUBLE SHREDDED BLACK MULCH
SYMBOL	CODE	DESCRIPTION
ROCK		
	K-101	STONE MULCH #78
	K-102	STONE MULCH 4" - 6"
	K-103	LANDSCAPE BOULDER

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.

Mark Reiner — 12-20-2024
OWNER SIGNATURE **(DATE)**

CONTRACT PURCHASER SIGNATURE **(DATE)**

5/1/06 Page 1 of 1

INTERSTATE HIGHWAY 64
(VAR. WIDTH PUBLIC R/W)
PER VDOT PROJ. 0064-002-102

STATE ROUTE 742 - AVON STREET EXT
VAR. WIDTH PUBLIC R/W
PER VDOT PROJ. 0742-002-115

PEREGORY LANE
60' EASEMENT OF RIGHT OF WAY
DB. 502, PG. 269

TMP 77-11A
ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL AUTHORITY
DB. 1531, PG. 668
DB. 1260, PG. 695 (PLAT)
ZONED: R1 RESIDENTIAL

ALBEMARLE-CHARLOTTESVILLE REGIONAL JAIL
MULTI-STORY MASONRY BUILDING
160 PEREGORY LANE

ALBEMARLE REGIONAL JAIL ADDITION
2-STORY
±22,488 GSF
FFE = 535.96'

TMP 77E1-1B
THE COMMONWEALTH OF VIRGINIA (STATE BOARD FOR COMMUNITY COLLEGES)
DB. 481, PG. 139
DB. 458, PG. 141 (PLAT)
ZONED: R1 RESIDENTIAL

TMP 77-11B
THE COMMONWEALTH OF VIRGINIA
DB. 532, PG. 194
DB. 194, PG. 20 (PLAT)
DB. 502, PG. 274 (PLAT)
ZONED: R1 RESIDENTIAL

ACSA WATERLINE CONVEYANCE OF UTILITIES FROM CITY OF CHARLOTTESVILLE TO ACSA (EASEMENT DELINEATIONS NOT SPECIFIED OR DEFINED)
DB. 502, PG. 269
DB. 579, PG. 347

NOTE:
ALL LANDSCAPING AND SCREENING SHALL BE MAINTAINED IN A HEALTHY CONDITION BY THE CURRENT OWNER OR A PROPERTY OWNER'S ASSOCIATION AND REPLACED WHEN NECESSARY. REPLACEMENT MATERIAL SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN.

NOTE:
ALL LANDSCAPING SHALL BE INSTALLED BY THE FIRST PLANTING SEASON FOLLOWING THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY WITHIN THE DEVELOPMENT OR A PHASE THEREOF.

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.

SCALE 1"=20'
0 20' 40'

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ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO:	632552
DATE:	DECEMBER 20, 2024
REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

LANDSCAPE PLAN

L100

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PLANT SCHEDULE									
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE	CANOPY		
TREES									CANOPY TOTALS
BET DUR	3	BETULA NIGRA `DURAHEAT`	DURAHEAT RIVER BIRCH - MULTI-STEM	6` HT.	B&B OR CONTAINER		464SF		1,392 SF
QUE PHE	3	QUERCUS PHELLOS	WILLOW OAK	2.5" CAL.	B&B		419SF		1,257 SF
ULM JEF	4	ULMUS AMERICANA `JEFFERSON`	JEFFERSON AMERICAN ELM	2.5" CAL.	B&B		464SF		1,856 SF
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE		SPACING	
DECIDUOUS SHRUBS									
HAM VIR	6	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	36" HT./SPRD.	B&B OR CONTAINER	DECIDUOUS	113 SF	120" o.c.	678 SF
ILE RED	8	ILEX VERTICILLATA `RED SPRITE`	RED SPRITE WINTERBERRY	24" HT./SPRD.	CONTAINER		41 SF	36" o.c.	328 SF
RHU TYP	3	RHUS TYPHINA	STAGHORN SUMAC	36" HT./SPRD.	B&B OR CONTAINER	DECIDUOUS	254 SF	120" o.c.	762 SF
EVERGREEN SHRUBS									
ILE INK	29	ILEX GLABRA `COMPACTA`	COMPACT INKBERRY	24" HT./SPRD.	CONTAINER		23 SF	48" o.c.	667 SF
ILE GEM	18	ILEX GLABRA `GEM BOX`	INKBERRY HOLLY	12" HT.	CONTAINER		23 SF	24" o.c.	414 SF
GROUNDCOVER									
RHU GRO	43	RHUS AROMATICA `GRO-LOW`	GRO-LOW FRAGRANT SUMAC	15" HT./SPRD.	CONTAINER		33 SF	42" o.c.	1,419 SF
ORNAMENTAL GRASSES									
PAN SHD	86	PANICUM VIRGATUM `SHENANDOAH`	SHENANDOAH SWITCH GRASS	24" HT./SPRD.	5 GAL.		7 SF	30" o.c.	602 SF
									TOTAL: 9,375 SF

LANDSCAPE MATERIALS SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	MANUFACTURER	COLOR	SIZE	DEPTH
01 GENERAL							
	01-01	WOOD MULCH DOUBLE SHREDDED BLACK MULCH	2,788 SF	ROSE HAULING			
SYMBOL	CODE	DESCRIPTION	QTY	MANUFACTURER	COLOR	SIZE	DEPTH
ROCK							
	K-101	STONE MULCH #78	540 SF	ROSE HAULING	NATURAL STONE	#78	2"
	K-102	STONE MULCH 4" - 6"	299 SF	ROSE HAULING	NATURAL	4"-6"	
	K-103	LANDSCAPE BOULDER	9	ROSE HAULING	NATURAL/TAN	1/2 - 1 TON	

LANDSCAPE WITHIN A PARKING AREA

** per Sec. 32.7.9.6 of the Albemarle County Code.*

REQUIREMENT	PARKING LOT AREA	CALCULATIONS	REQUIRED	PROVIDED
5% OF GROSS PARKING AREA	21,622 SF	21,622 x .05 = 1,081.1 SF	1,081 SF	1,632 SF

LANDSCAPE WITHIN A PARKING AREA

** per Sec. 32.7.9.6 of the Albemarle County Code.*

REQUIREMENT	PARKING SPACES	CALCULATIONS	REQUIRED	PROVIDED
1 LARGE TREE OR MEDIUM TREE PER 10 PARKING SPACES	63 PARKING SPACES	63/10 = 6.3 LARGE TREES	7 LARGE TREES	12 LARGE TREES 29 SHRUBS

TREE CANOPY REQUIREMENTS

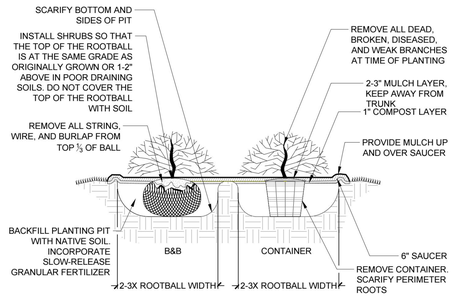
** per Sec. 32.7.9.8 of the Albemarle County Code.*

REQUIREMENT	SITE AREA	CALCULATIONS	REQUIRED	PROVIDED
10% OF THE LOT AREA IS TO BE COVERED BY TREE CANOPY	1.43 ACRES = 62,290.8 SF	62,290.8 x .10 = 6,229.08 SF	6,230 SF	9,375 SF

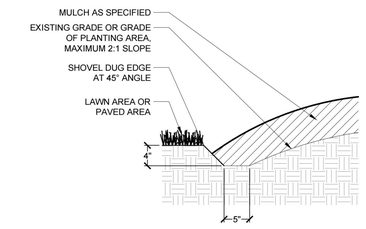
NOTE: ALL SITE PLANTING OF TREES AND SHRUBS SHALL BE ALLOWED TO REACH, AND BE MAINTAINED AT, MATURE HEIGHT; THE TOPPING OF TREES IS PROHIBITED. SHRUBS AND TREES SHALL BE PRUNED MINIMALLY AND ONLY TO SUPPORT THE OVERALL HEALTH OF THE PLANT.

NOTE: ALL LANDSCAPING SHALL BE INSTALLED BY THE FIRST PLANTING SEASON FOLLOWING THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY WITHIN THE DEVELOPMENT OR A PHASE THEREOF.

NOTE: ALL LANDSCAPING AND SCREENING SHALL BE MAINTAINED IN A HEALTHY CONDITION BY THE CURRENT OWNER OR A PROPERTY OWNER'S ASSOCIATION AND REPLACED WHEN NECESSARY. REPLACEMENT MATERIAL SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN.

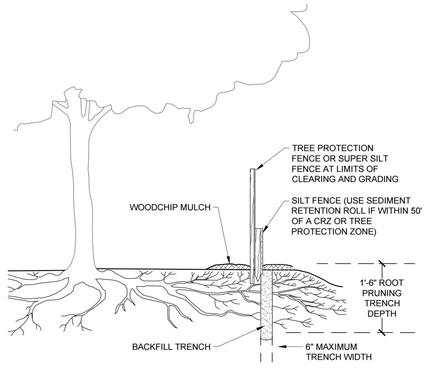


3 SHRUB PLANTING DETAIL
NTS



NOTE:
1. TRENCH EDGE DETAIL SHALL BE USED AT ALL LAWN EDGES & AT EDGES OF MULCHED AREA (FOR CONTAINMENT).
2. TRENCH EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS & SHALL CREATE SMOOTH & EVEN LINES (AS INDICATED ON THE PLANS).

4 TRENCH EDGE
1" = 1'-0"



5 TREE PROTECTION FENCE & ROOT PRUNING
3/4" = 1'-0"

GENERAL NOTES

PRE-CONSTRUCTION

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1.800.552.7001 FOR LOCATION OF ALL UTILITY LINES.TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- VERIFY ALL PLANT MATERIAL QUANTITIES ON THE PLAN PRIOR TO BIDDING. PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND SHALL BE VERIFIED PRIOR TO BIDDING.
- PROVIDE PLANT MATERIALS OF QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY INDICATED ON PLANS. ALL PLANT MATERIALS AND INSTALLATION SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". IF SPECIFIED PLANT MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON AVAILABILITY TO THE LANDSCAPE ARCHITECT, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL.
- PROVIDE AND INSTALL ALL PLANTS AS IN ACCORDANCE WITH DETAILS AND CONTRACT SPECIFICATIONS.
- SOIL TESTS SHALL BE PERFORMED TO DETERMINE SOIL CHARACTER AND QUALITY. NECESSARY SOIL AMENDMENTS SHALL BE PERFORMED PER TEST RESULTS TO ENSURE PLANT HEALTH.

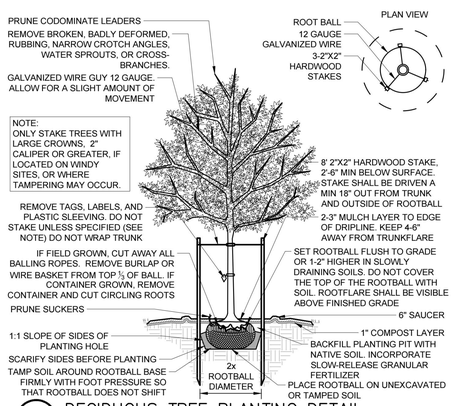
CONSTRUCTION/INSTALLATION

- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK"
- LABEL AT LEAST ONE TREE AND ONE SHRUB OF EACH VARIETY AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING THE DESIGNATION OF BOTANICAL AND COMMON NAME.
- INSTALL LANDSCAPE PLANTINGS AT ENTRANCES/EXITS AND PARKING AREAS ACCORDING TO PLANS SO THAT MATERIALS WILL NOT INTERFERE WITH SIGHT DISTANCES.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF CONDITIONS WHICH AFFECTS THE GUARANTEE.

INSPECTIONS/GUARANTEE

- UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- ALL EXTERIOR PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER DATE OF FINAL INSPECTION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. DEFECTS RESULTING FROM NEGLECT BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTORS CONTROL ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR.
- PLANT MATERIAL QUANTITIES AND SIZES WILL BE INSPECTED FOR COMPLIANCE WITH APPROVED PLANS BY A SITE PLAN REVIEW AGENT OF THE PLANNING DEPARTMENT PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
- REMOVE ALL GUY WIRES AND STAKES 12 MONTHS AFTER INSTALLATION.

— GENERAL NOTES
NTS



1 DECIDUOUS TREE PLANTING DETAIL
NTS

NOTE: ATTACH TO TOP OF TREE PROTECTION FENCE AT 50' INTERVALS.



2 TREE PROTECTION SIGN
6" = 1'-0"

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3200 NORFOLK STREET, RICHMOND, VA 23230
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THADDAEUS P. RICH
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ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS

DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

LANDSCAPE NOTES AND DETAIL

L200

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Luminaire Schedule						
Qty	Label	Symbol	LLF	Luminaire Lumens	[MANUFAC]	Description
2	B5		1.000	1152	KIM LIGHTING	PA7R-CH4-12L-010-3K7
6	N81		1.000	1826	KIM LIGHTING	LTV8122-SP-36L3K
19	S3		1.000	174	KIM1 LIGHTING	EL807_9L3K_KIT
4	V3-BC		0.950	7059	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-III-W-40LED-525mA-30K-HS
2	V5-BB		0.950	13605	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-VSQ-M-80LED-350mA-30K
1	WP3		1.000	2054	LIGMAN	LEW-30021-T3-W30

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.21	0.5	0.0	N.A.	N.A.
Parking Lot	Illuminance	Fc	3.15	6.1	1.0	3.15	6.10

Prepared by:
LIGHTING VIRGINIA CENTRAL
400G-2 Southlake Blvd.
Richmond, VA 23236
Tel: 804-379-7777
www.lightingvirginia.com

MH = mounting height in FEET

NOTES:

1. NO ALTERATIONS OR MODIFICATIONS SHALL BE MADE TO THIS PLAN WITHOUT THE PERMISSION OF LIGHTING VIRGINIA CENTRAL, ADAMS FARNELL, LLC.

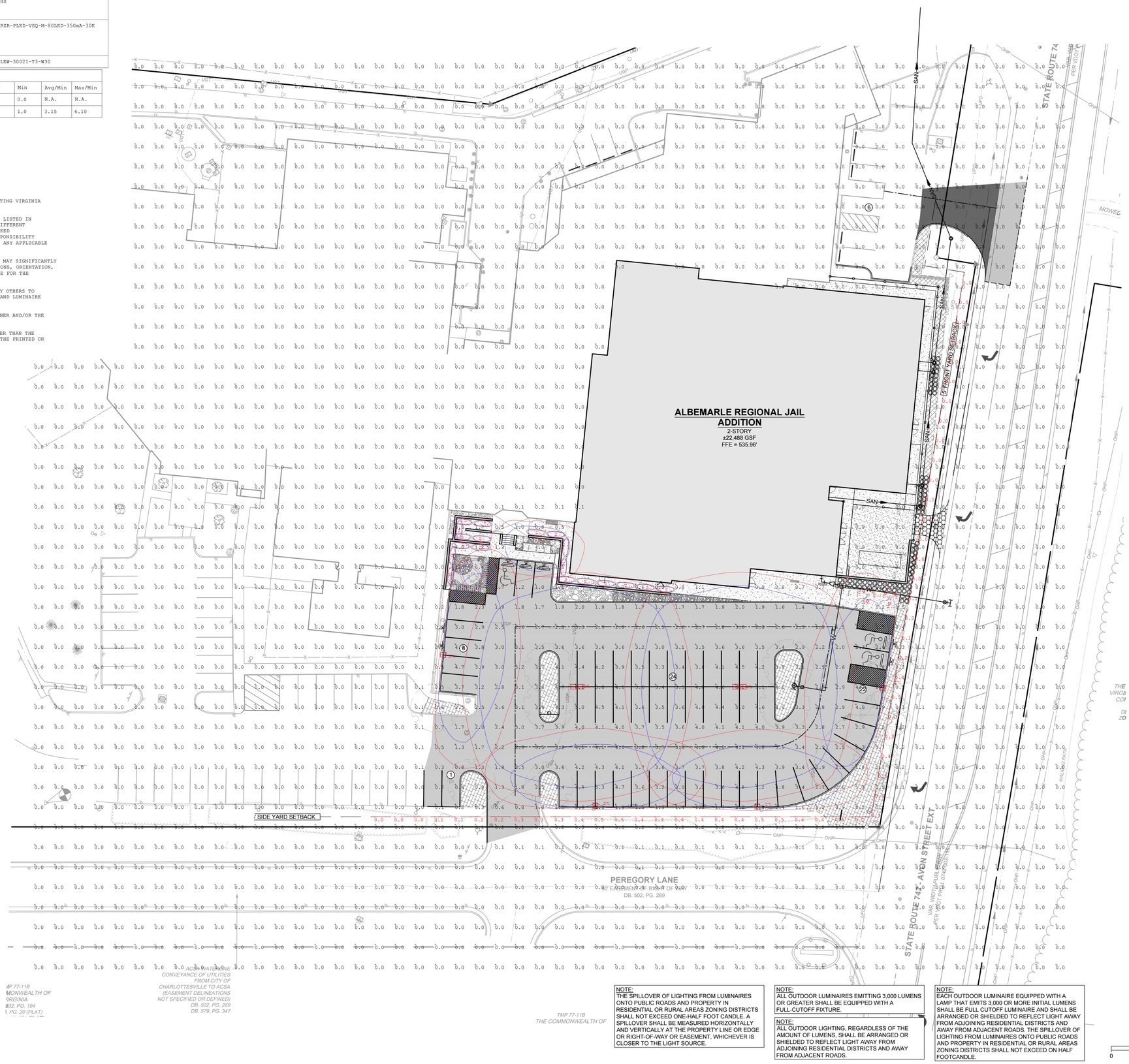
2. THE OUTPUT ON THIS PHOTOMETRIC LAYOUT IS SPECIFIC TO THE MANUFACTURER AND CATALOG NUMBERS LISTED IN THE LUMINAIRE SCHEDULE. SUBSTITUTIONS OR DEVIATIONS FROM THIS PLAN MAY INCUR SIGNIFICANTLY DIFFERENT RESULTS. ANY SUBSTITUTIONS MUST RECEIVE ENGINEER AND ARCHITECT APPROVAL. REVIEW COSTS, REWORKED PHOTOMETRIC LAYOUTS, PRODUCT SUBMITTALS AND A FULL SET OF ITL REPORTS WILL SOLELY BE THE RESPONSIBILITY OF ANY CONTRACTING FIRM MAKING A SUBSTITUTION, AND MUST COMPLY WITH DESIGN CRITERIA AND WITH ANY APPLICABLE JURISDICTIONAL CODES.

3. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.

4. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS AND SUPPLIED BY OTHERS TO LIGHTING VIRGINIA. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.

5. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

6. CHECK GRAPHIC SCALE. DOCUMENTS PRINTED OR PLOTTED FROM ELECTRONIC FILES MAY OCCUR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SCALES. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OR PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.



NOTE:
THE SPILLOVER OF LIGHTING FROM LUMINAIRES ONTO PUBLIC ROADS AND PROPERTY IN RESIDENTIAL OR RURAL AREAS ZONING DISTRICTS SHALL NOT EXCEED ONE-HALF FOOT CANDLE. A SPILLOVER SHALL BE MEASURED HORIZONTALLY AND VERTICALLY AT THE PROPERTY LINE OR EDGE OR RIGHT-OF-WAY OR EASEMENT, WHICHEVER IS CLOSER TO THE LIGHT SOURCE.

NOTE:
ALL OUTDOOR LUMINAIRES EMITTING 3,000 LUMENS OR GREATER SHALL BE EQUIPPED WITH A FULL-CUTOFF FIXTURE.

NOTE:
ALL OUTDOOR LIGHTING, REGARDLESS OF THE AMOUNT OF LUMENS, SHALL BE ARRANGED OR SHIELDED TO REFLECT LIGHT AWAY FROM ADJOINING RESIDENTIAL DISTRICTS AND AWAY FROM ADJACENT ROADS.

NOTE:
EACH OUTDOOR LUMINAIRE EQUIPPED WITH A LAMP THAT EMITS 3,000 OR MORE INITIAL LUMENS SHALL BE FULL CUTOFF LUMINAIRE AND SHALL BE ARRANGED OR SHIELDED TO REFLECT LIGHT AWAY FROM ADJOINING RESIDENTIAL DISTRICTS AND AWAY FROM ADJACENT ROADS. THE SPILLOVER OF LIGHTING FROM LUMINAIRES ONTO PUBLIC ROADS AND PROPERTY IN RESIDENTIAL OR RURAL AREAS ZONING DISTRICTS SHALL NOT EXCEED ON HALF FOOTCANDLE.

MOSELEY ARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

LIGHTING VIRGINIA

Prepared by:
LIGHTING VIRGINIA CENTRAL
400G-2 Southlake Blvd.
Richmond, VA 23236
Tel: 804-379-7777
www.lightingvirginia.com

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62567-305

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION

160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO:	632552
DATE:	DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

SCALE 1"=20'
0 20' 40'

PHOTOMETRIC PLAN

L300

S:\30562567-ACRJ\DWG\Sheet\CD\62567-L300-LUMN.dwg | Plotted on 12/20/2024 2:24 PM | by Thad Rich

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

KIMLIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

Pavilion™



FEATURES

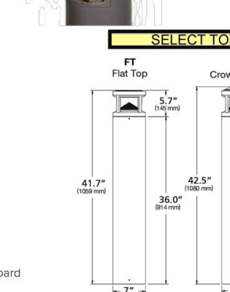
- IDA Dark Sky Compliant, No Up-light configuration
- Elegant form factor blended with Performance Optics
- Integral NEMA 3R Enclosure
- Dual receptacle power panel
- PA System capability
- Bluetooth® enabled RGBW accent

NU configurations in 3000K and warmer CCTs only

CONTROL TECHNOLOGY

Bluetooth® DMX pharos

SELECT TOP



	Weight
PA7R	25.3 lbs / 11.5 kg

SPECIFICATIONS

CONSTRUCTION

HOUSING:
- Castings are low copper aluminum alloy die-cast
- Gaskets are molded silicone to prevent harmful ingress to the lamp and driver compartments
- IP65 rated

SHAFT:
- Aluminum shaft(s) is .125" thick extruded aluminum 6061 alloy
- Concrete shaft(s) conforms to current specifications for "Portland Cement." ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete Aggregates," ASTM C33. Water shall be clean and free from deleterious amounts of silt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A185. Steel for lugs and plates shall conform to ASTM A36, or A283 grade D
- Concrete shaft(s) is medium sand-blasted with anti-graffiti sealer and material color shall be integral to the concrete mix
- Concrete shaft(s) is cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi
- Concrete shaft(s) is cast from fiberglass molds used to insure uniform parts. Mold parting lines maybe slightly visible in finished parts

OPTICS
- LEDs mount to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic
- U0 configurations have an optically clear flat tempered glass lens, all other configurations have either an optically clear or high transmission diffused acrylic lens

INSTALLATION
- Aluminum shaft configurations will have four 3/8" x 10" x 2" zinc plated L-hook anchor bolts shall to be installed with an included template. Nuts and washers are provided to level and secure the mounting plate to the anchor bolts
- Aluminum shaft configurations will have a mounting plate and be able to be rotated 20° in either direction during installation for aiming adjustment
- Concrete shaft configurations will have four steel mounting tabs for installation on four 1/2" x 10" + 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template
- Concrete shaft configurations are palletized with adequate hold-downs to prevent load movement in transit
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL
- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed
- High voltage configurations, 208-277, 347/480. Driver is Underwriters Laboratories listed
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers are greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire is capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

(Specifications continued on page 3)

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Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

KIMLIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

ORDERING GUIDE

Example: PA7R-FT-NU-1-12L-010-5K7-24A-BLS-UNV-EM

CATALOG #

HOUSING

PA7R	XX	NU	4	12L-010-3K7
Model	**Top**	**Optics**	**Distribution**	**Light Engine** [13]
PA7R Pavilion 7" Ø Round	FT Flat Top	NU No Up-light	1 Type I	12L-010-AMB [10] 14W, Monochromatic Amber
	CT [1] Crowned Top	CH Clear Horizontal Lens	2 Type II	12L-010-3K7 14W (1000 nominal lm), 3000K, 70 CRI
	SELECT	CL [2] Clear Vertical Lens	3 Type III	12L-010-4K7 14W (1000 nominal lm), 4000K, 70 CRI
		DL [2,3] Diffuse Vertical Lens	3HS Type III + House side shield	12L-010-5K7 14W (1000 nominal lm), 5000K, 70 CRI
		LV Louvers	4 Type IV	12L-020-AMB [10] 22W, Monochromatic Amber
		GC Grille with clear vertical lens	5 Type V	12L-020-3K7 22W (2000 nominal lm), 3000K, 70 CRI
		GD [3] Grille with diffuse vertical lens		12L-020-4K7 22W (2000 nominal lm), 4000K, 70 CRI
				12L-020-5K7 22W (2000 nominal lm), 5000K, 70 CRI
				Consult factory for other CCTs (2700K - 6500K) and CRIs (80, 90 CRI)

42A		XXX		UNV			
Body		**Fixture Finish**		**Voltage**		**Options**	
24A	24" OAH, Aluminum	BLS	Black Gloss Smooth	UNV	120-277V	EM [7]	Battery Backup
42A	42" OAH, Aluminum	BLT	Black Matte Textured	120 [6]	120V	LR [8]	Luminous Accent
42BR-C	42" OAH, Brown Concrete	DBS	Dark Bronze Gloss Smooth	277 [6]	208-277V	SF [9]	Single Fuse
42CH-C	42" OAH, Charcoal Concrete	DBT	Dark Bronze Matte Textured	347 [6]	347V	DF [9]	Double Fuse
42NG-C	42" OAH, Natural Gray Concrete	GTT	Graphite Matte Textured	480 [6]	480V		
42WH-C	42" OAH, White Concrete	LGS	Light Grey Gloss Smooth				
42A-ROP [4]	42" OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	LGT	Light Grey Matte Textured				
42A-ROP-L [4]	42" OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	PSS	Platinum Silver Gloss Smooth				
42A-2GEB	42" OAH, Aluminum + Integral Recessed 2 Gang Electrical Box	VGT	Verde Green Matte Textured				
42A-SG3	42" OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker	WHS	White Gloss Smooth				
44A	44" Non-Impact Resistant OAH, Aluminum	WHT	White Matte Textured				
44A-ROP	44" Non-Impact Resistant OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	**Color Option**					
44A-ROP-L	44" Non-Impact Resistant OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	CC [11]	Custom Color				
44A-2GEB	44" Non-Impact Resistant OAH, Aluminum + Integral Recessed 2 Gang Electrical Box	SELECT FROM STD COLORS					
44A-SG3	44" Non-Impact Resistant OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker						
For Impact Rated 44" OAH Round Pavilion							

1 Adds .6 / 15mm to OAH (over all height).
2 CL and DL configurations shall be IK04
3 Only Available with 1 Type I or 5 Type V distributions only.
4 For GFCI/USB limited voltage to 120VAC only.
6 Dedicated input voltage, required for MW Motions sensing.
7 0°C min starting temperature, 90+ minute run time, output equivalent to 12L-010-#K7
8 Adds +5 watts and 1" / 254mm to overall height.
9 SF for 120, 277 and 347 input voltage, DF for 208, 240 and 480 input voltage.
10 Turtle friendly
11 Consult factory for custom color, marine and corrosive finish options
12 5-step MacAdam Ellipse Binning standard. Consult factory for 3-step MacAdam Ellipse Binning.

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Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

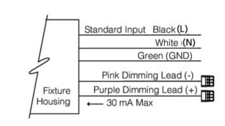
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DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

SPECIFICATIONS CONT'D

CONTROLS
- Standard fixtures dimming range shall be from 10% to 100% and be compatible with 0-10V, user-defined, control devices



WIRELESS CONTROLS

BLUETOOTH®:
- The integral module shall enable the adjustment of the Luminous Accent to dim or change color to the desired setting when paired with RGBW Remote App via celluar/tablet device
- The integral module shall be compatible with Bluetood Low Energy (BLE) or Bluetooth® Smart mobile devices operating on iOS8 or Android Gingerbread operating systems or newer
- Mobile App. dimming range from 0% to 100% through the use of RGBW app (available on IOS and Android)
- Color selection and adjustment
- Camera function for color matching
- Intensity slider for dimming/ramping up
- Save and rename up to 10 presets
- Group and rename fixtures
- Fixture is password protected, refer to instructions to set unique password

DMX:
- 6 wires: Red (DMX+), Brown (DMX-), Yellow (DMX Ground), Black (Line Voltage), White (common), and Green (Ground)
- Single DMX universe with six slots/addresses of virtual control which are pre-programmed at the factory:
- DMX slot/address 1 = red
- DMX slot/address 2 = green
- DMX slot/address 3 = blue
- DMX slot/address 4 = white
- Fully DMX RDM compatible
- Mobile App specification in additional information section

OPTIONAL BACKUP BATTERY
- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for 0°C ambient environments

CAUTION:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CERTIFICATIONS AND LISTINGS
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- IP65 rated
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only
- RoHS compliant
- Emergency battery pack options are California Energy Commission (CEC) Title 20 Compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions)

WARRANTY
- 5 year warranty
- See HLI Standard Warranty for additional information

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ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

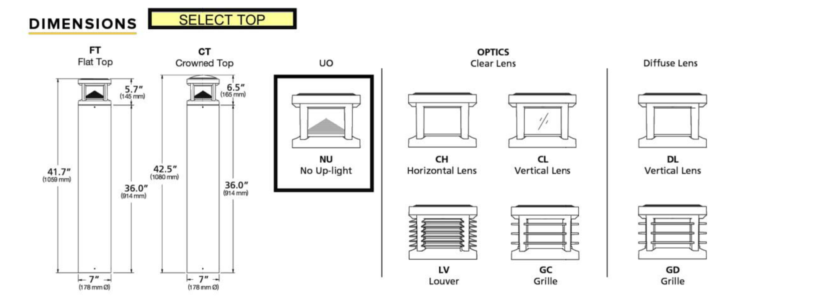
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DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

DIMENSIONS

SELECT TOP



DELIVERED LUMENS

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating B	U	G	lm/w	Lumen	BUG Rating B	U	G	lm/w	Lumen	BUG Rating B	U	G	lm/w
550mA	12L	22	2,000	NU U0 Optics	1	1044	0	0	0	48	1136	0	0	0	52	1164	0	0	0	54
					2	1199	0	0	0	55	1305	0	0	0	60	1336	0	0	0	62
					3	1128	0	0	1	52	1228	0	0	1	57	1257	0	0	1	58
					3HS	953	0	0	0	44	1037	0	0	0	48	1062	0	0	1	49
					4	1362	0	0	0	63	1482	0	0	1	68	1518	0	0	1	70
					5	1265	1	0	0	58	1377	1	0	0	63	1410	1	0	0	65
				CH Clear Horizontal Lens	1	1778	0	3	1	82	1935	0	3	1	89	1981	0	3	1	91
					2	1711	1	3	1	79	1862	1	3	1	86	1906	1	3	1	88
					3	1643	1	3	1	76	1788	1	3	1	82	1831	1	3	1	84
					3HS	1443	0	3	1	66	1570	0	3	1	72	1608	0	3	1	74
					4	1731	0	3	1	80	1884	0	3	1	87	1929	0	3	1	89
					5	1841	1	3	1	85	2003	1	3	1	92	2051	1	3	1	95
				CL Clear Vertical Lens	1	1852	0	4	1	85	2016	1	4	1	93	2064	1	4	1	95
					2	1984	1	3	1	91	2159	1	3	1	99	2211	1	3	1	102
					3	2062	1	3	1	95	2244	1	3	1	103	2298	1	3	1	106
					3HS	1665	0	3	1	77	1811	0	3	1	83	1855	0	3	1	85
					4	2055	0	3	1	95	2236	1	3	1	103	2290	1	3	1	106
					5	2109	1	3	1	97	2295	1	3	1	106	2350	1	3	1	108

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Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

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DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating B	U	G	lm/w	Lumen	BUG Rating B	U	G	lm/w	Lumen	BUG Rating B	U	G	lm/w
350mA	12L	14	1,000	NU U0 Optics	1	749	0	0	0	54	815	0	0	0	59	835	0	0	0	60
					2	860	0	0	0	62	936	0	0	0	67	958	0	0	0	69
					3	809	0	0	0	58	881	0	0	0	63	902	0	0	0	65
					3HS	684	0	0	0	49	744	0	0	0	53	762	0	0	0	55
					4	977	0	0	0	70	1063	0	0	0	76	1089	0	0	0	78
					5	908	1	0	0	65	988	1	0	0	71	1011	1	0	0	73
				CH Clear Horizontal Lens	1	1184	0	3	1	85	1288	0	3	1	92	1319	0	3	1	95
					2	1139	0	3	1	82	1239	0	3	1	89	1269	0	3	1	91
					3	1094	0	3	1	79	1190	0	3	1	85	1219	0	3	1	87
					3HS	960	0	3	1	69	1045	0	3	1	75	1070	0	3	1	77
					4	1152	0	3	1	83	1254	0	3	1	90	1284	0	3	1	92
					5	1225	1	3	1	88	1333	1	3	1	96	1365	1	3	1	98
				CL Clear Vertical Lens	1	1146	0	3	1	82	1247	0	3	1	90	1277	0	3	1	92
					2	1228	0	3	1	88	1336	1	3	1	96	1368	1	3	1	98
					3	1276	0	3	1	92	1389	1	3	1	100	1422	1	3	1	102
					3HS	1030	0	3	1	74	1121	0	3	1	80	1148	0	3	1	82
					4	1272	0	3	1	91	1384	0	3	1	99	1417	0	3	1	102
					5	1305	1	3	1	94	1420	1	3	1	102	1454	1	3	1	104
				DL Diffused Vertical Lens	1	1086	0	3	1	78	1182	0	3	1	85	1210	0	3	1	87
					5	1141	1	3	1	82	1241	1	3	1	89	1271	1	3	1	91

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Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

KIMLIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

PHOTOMETRY

PA7R-NU3-12L-020-4K7

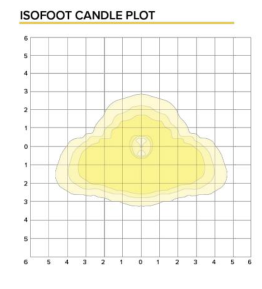
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1228
Watts	21.76
Efficacy	56.0
IES Type	III
BUG Rating	B0-U0-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1035	84.3%
Downward House Side	194	15.8%
Downward Total	1228	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1228	100%

ISOFOOT CANDLE PLOT



PA7R-NU3HS-12L-020-4K7

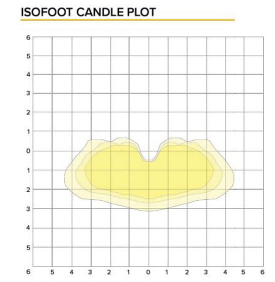
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1037
Watts	21.74
Efficacy	48.0
IES Type	III
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	6 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	987	95.1%
Downward House Side	51	4.9%
Downward Total	1038	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1038	100%

ISOFOOT CANDLE PLOT



PA7R-NU4-12L-020-4K7

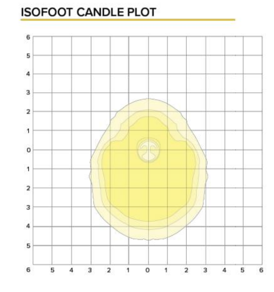
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1482
Watts	21.67
Efficacy	68.0
IES Type	IV
BUG Rating	B0-U0-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1318	88.9%
Downward House Side	164	11.1%
Downward Total	1483	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1483	100%

ISOFOOT CANDLE PLOT



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Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	PA7R-XX-NU-4-12L-010-3K7-42A-XXX-UNV Notes:	B5 LV - CENTRAL24-200106

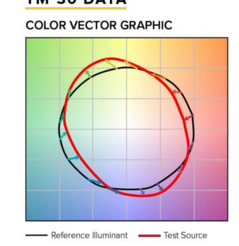
KIMLIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

PA7R
BOLLARD

TM-30 DATA

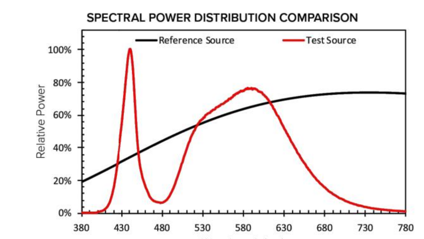
COLOR VECTOR GRAPHIC



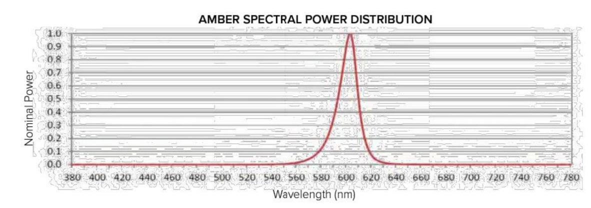
TEST SOURCE

R_f	68
R_g	99
CCT(K)	3947
D_{uv}	0.0004
x	0.3831
y	0.3793
CIE R_a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



AMBER SPECTRAL POWER DISTRIBUTION



ELECTRICAL DATA

Electrical														Dimming				
# LED	System Watts	Drive Current	Line Voltage VAC	Line Voltage Hz	Amps AC 120	208	240	277	347	480	Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V Min	Max	Absolute voltage range on 0-10V (+) Min	Max
12	22	550mA	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	14	350mA			0.12	0.07	0.06	0.05	0.04	0.03							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C) & (40°C / 104°C)						
Hours	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	98%	97%	95%	90%	60khrs

CRI Lumen Multiplier 80 and 90 CRI		
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.9119	0.7033
3500K	0.906	0.732
4000K	0.8941	0.734
5000K	0.879	0.7712
Scaling factor of 5000K 70CRI lumen packages		

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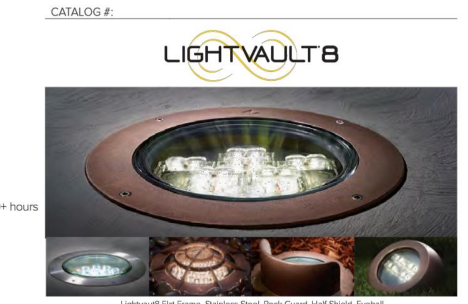
Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	LTV81SS/SP/36L3KUV/SR/RCA81 Notes:	N81 LV - CENTRAL24-200106

KIMLIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

LTV81
INGRADE

LIGHTVAULT8



Lightvaut8 Flat Frame, Stainless Steel, Rock Guard, Half Shield, Eyeball

RELATED PRODUCTS

LTV8FF RGBW | LTV8SS | LTV8SS RGBW

FEATURES

- Sealed IP68 LED light engine
- Bluetooth connectivity for remote control aiming and dimming
- Free Mobile App for Android and iOS
- Easy to install and pair devices
- Advanced thermal management provides long life in excess of 100,000+ hours
- Runs cool to the touch - less than 40°C

CONTROL TECHNOLOGY

Bluetooth®

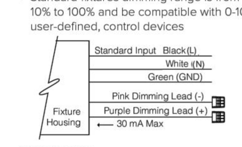
SPECIFICATIONS

HOUSING:
- Pour Box rough-in housing for installation below grade
- High temperature UV resistant thermal plastic, 3/16" minimum wall, black
- Includes a splice box with molded plastic splice cover and silicone gasket
- Three 1" NPT in bottom for through wiring on LTV81 and LTV82
- Two 1" NPT in bottom for through wiring on LTV83. 107 cu. in. splice area for LTV81
- 52 cu. in. splice area for LTV82. 24 cu. in. splice area for LTV83
- Rough-in housing supplied with a protective aluminum debris shield and includes an orientation label for proper installation alignment. This allows for clean and easy installation in concrete pad or soil. Pour Box can be shipped separately as a quick-ship if requested
- One-piece impregnated cast bronze component module is fully sealed and secured to the face trim from the underside
- A high temperature, anti-siphon, IP68 sealed cable extends from the component module to the splice box inside the housing
- The fully assembled component module is secured to the housing with (4) ¼-20 tamper-resistant and high grade stainless steel fasteners
- One-piece cast bronze lens ring fastens to the component module from the underside and provides a flat surface
- Slip Resistant Lens (SR) and Rebar Cage Anchor (RCA81)
- When installed in concrete, fixture will withstand drive-over by vehicles weighing up to 4,500 lb.

OPTICS
- Spot (SP), Narrow Flood (NF), and Wall Wash (WW) optical modules are adjustable up to 15° utilizing a Bluetooth enabled motor assembly
- Clear 5/16" thick tempered glass lens and silicone gasket is retained securely within the component module

ELECTRICAL
- All electronic components are UL and CSA recognized and are mounted directly to the component module for maximum heat dissipation and modularity. Driver is IP67 with -30°C minimum temperature rating
- Product comes standrd with a UL Recognized 10kA surge protector

CONTROLS
- Standard fixtures dimming range is from 10% to 100% and be compatible with 0-10V, user-defined, control devices



BLUETOOTH:
- Integral Bluetooth module used to adjust optics and dim fixture to desired setting when paired with KIM LTV8 Remote App via cellular/tablet device
- Fully qualified Bluetooth 1.1, 1.2, 2.0, 2.1. Bluetooth v2.0+EDR compatible with Android devices running Android Gingerbread API level 9 forward. Bluetooth 4.0 LE compatible with iOS devices - iPhone 4S and later, 5th generation iPod touch, the iPad Mini and the 3rd generation and later of the full size iPad with iOS 5 or later

BLUETOOTH (CONTINUED)
- Bluetooth Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the internet at Apple App Store or Google Play

CAUTION:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CERTIFICATIONS AND LISTINGS
- Listed to UL1598 and UL8750 25°C ambient operation
- SASO Certified for LTV82/83
- IP68 rated
- IEC 66262 Mechanical Impact Code IK09
- CISPR 15 Compliant, per product standard EN 55015:2013
- RoHS compliant

WARRANTY
- 5 year warranty

KEY DATA	
Lumen Range	988–3878
Wattage Range	14–44
Reported Life (Hours)	L70/60,000

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62567-305

ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

LIGHTING CUTSHEETS

L301

S:\305\62567-ACRJ\DWG\Sheet\CD\62567-L300-LUMN.dwg | Plotted on 12/20/2024 2:24 PM | by Thad Rich

Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** LTV81SS/SP/36L3KUV/SR/RCA81 | **Type:** N81 | LV - CENTRAL24-200106

KIM LIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

LTV81
INGRADE

ORDERING GUIDE

Example: LTV81-FF-NF-18L-4K-UV-SR-RCA81

CATALOG #

HOUSING

LTV81	SS	SP	36L	3K	UV	SR	RCA81
Model	Style	Distribution	Source	Color Temperature	Voltages	Lens Options [1]	Bolar Cage Anchor
LTV81 12" HS	FF Flat Frame	SP Spot	18L 18 LEDs	3K 3000K	UV 120-277V	SR Slip Resistant	RCA81 for LTV81
	SS Stainless Steel	NF Narrow Flood	18L 18 LEDs (Left Angle)	4K 4000K		FL Frameless Lens	
	HS Hip Shroud	WW Wall Wash		5K 5000K			
	RG Rock Guard						
	EB Eyeball [2]						

1. Eyeball fixture comes only with 18 LED.
2. All lens options are integral parts of component module and must be installed at factory.

Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** LTV81SS/SP/36L3KUV/SR/RCA81 | **Type:** N81 | LV - CENTRAL24-200106

KIM LIGHTING®

DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

LTV81
INGRADE

DELIVERED LUMENS

LTV81FF

Optical Module	Source	Color Temps.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V	Field Angle (10%) H x V	NEMA Type
SP	36L	3K	3529	42861	UV	42W	350 for 120V 202 for 208V 175 for 240V 152 for 277V	12.9 x 12.9	26.4 x 26.4	2H x 2V
		4K	3617	45492						
		5K	3658	46015						
NF		3K	2911	3248				46 x 54.6	79.9 x 83.8	5H x 5V
		4K	2985	3310						
		5K	3020	3379						
WW		3K	3739	6083		44W	367 for 120V 212 for 208V 183 for 240V 159 for 277V	53.1 x 28.2	102.5 x 61.1	6H x 4V
		4K	3835	6239						
		5K	3878	6309						

LTV81SS

Optical Module	Source	Color Temps.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	36L	3K	3529	42861	UV	42W	350 for 120V 202 for 208V 175 for 240V 152 for 277V	12.9°
		4K	3617	45492				
		5K	3658	46015				
NF		3K	2911	3248				46°
		4K	2985	3310				
		5K	3020	3379				
WW		3K	3739	6083		44W	367 for 120V 212 for 208V 183 for 240V 159 for 277V	53.1°
		4K	3835	6239				
		5K	3878	6309				

LTV81RG

Optical Module	Source	Color Temps.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	36L	3K	2399	26821	UV	42W	350 for 120V 202 for 208V 175 for 240V 152 for 277V	13.3°
		4K	2462	27423				
		5K	2488	28026				
NF		3K	2036	2368				44.3°
		4K	2088	2436				
		5K	211	2453				
WW		3K	2522	4097		44W	367 for 120V 212 for 208V 183 for 240V 159 for 277V	49.3°
		4K	2585	4201				
		5K	2616	4250				

LTV81HS

Optical Module	Source	Color Temps.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	36L	3K	3418	42371	UV	42W	350 for 120V 202 for 208V 175 for 240V 152 for 277V	12.9°
		4K	3507	43560				
		5K	3543	45983				
NF		3K	2627	3228				49.3°
		4K	2695	3317				
		5K	2724	3412				
WW		3K	3489	6032		44W	367 for 120V 212 for 208V 183 for 240V 159 for 277V	52.3°
		4K	3578	6187				
		5K	3619	6257				

KEY: FF = Flat Frame, SS = Flat Frame, RG = Rock Guard, HS = Half Shield, EB = Eyeball, SP = Spot, NF = Narrow Flood, WW = Wall Wash (Pico/Pan/3, 18L = 36 LEDs, 18L = 18 LEDs, 36L = 36 LEDs), 3K = 3000K, 4K = 4000K, 5K = 5000K, UV = Universal Voltage shall range from 120V-277V with a ±5% tolerance.
* The SP and NF are based on Candelas existing unit straight up. The WW is the highest candela angle.

Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** LTV81SS/SP/36L3KUV/SR/RCA81 | **Type:** N81 | LV - CENTRAL24-200106

KIM LIGHTING®

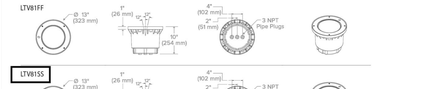
DATE: | LOCATION:
TYPE: | PROJECT:
CATALOG #:

LTV81
INGRADE

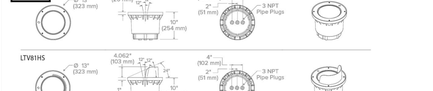
DIMENSIONS

Top View | Side View | Bottom View | ISO View

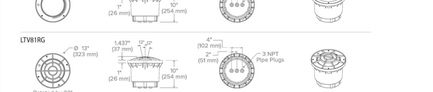
LTV81FF



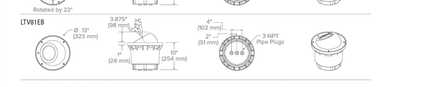
LTV81SS



LTV81HS



LTV81RG



LTV81EB



LIGHT DISTRIBUTIONS:

ELECTRICAL DATA

Spectroradiometric

	3K	4K	5K
Correlated Color Temp. CCT (K)	2800K to 3175K	3800K to 4600K	4600K to 5600K
Color Rendering Index (CRI)	≥72	≥72	≥72
Power Factor	>90	>90	>90

L70 Data

	Calculated	Reported*
350 mA	100,000	60,000

Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** EL807/9L3KUV/XX | **Type:** S3 | LV - CENTRAL24-200106

KIM LIGHTING®

Wall, Step , Path Light EL807

120 / 277 VOLT DIE-CAST ALUMINUM LED

Type:
Job:
Fixture Catalog number:

EL807/ 9L3KUV / XX
Fixture | Inside | Finish

Approvals:

Specifications

Housing: Die-cast low copper alloy (<0.6% Cu) aluminum with clear anodized finish. Two 1/2" NPT in sides. Housing mounts into concrete, brick, or masonry (non-combustible materials). Internal splice area provided behind lamp plate.

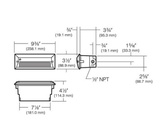
Lens Frame: Die-cast aluminum, with silicone gasket, attaches to housing with two captive 10-32 stainless steel, hex socket cap screws.

Lens: Tempered prismatic glass with silicone gasket, concealed above lens frame opening.

Finish: On lens frame only, each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors are Black (**BL**), Dark Bronze (**DB**), and Verde Green (**GR**).

Optical System: A total of 3 or 9 LED emitters are configured together as a module. Available in 3000K, 4200K, and 5100K.

Driver: Universal Voltage from 120 to 277V with a ±10% tolerance. -40° F. starting temperature. All drivers are Underwriters Laboratories recognized.



ORDERING INFORMATION

Fixture	Source
EL807 / 3L3KUV[1]	3.6W, 3 LED's, 3000K
EL807 / 3L4KUV[1]	3.6W, 3 LED's, 4200K
EL807 / 3L5KUV[1]	3.6W, 3 LED's, 5100K

Fixture	Source
EL807 / 9L3KUV[1]	10.8W, 9 LED's, 3000K
EL807 / 9L4KUV[1]	10.8W, 9 LED's, 4200K
EL807 / 9L5KUV[1]	10.8W, 9 LED's, 5100K

1. Universal Voltage from 120 to 277V with a ±10% tolerance. For 5.3W, Max Amps. are .13 for 120V, .080 for 208V, .080 for 240V, .060 for 277V. For 10.8W, Max. Amps. are .090 for 120V, .050 for 208V, .040 for 240V, .040 for 277V..

Finish
BL - Black
DB - Dark Bronze
GR - Verde Green

SELECT FINISH

Listings and Ratings

UL cUL 1598[1]	25C Ambient

1.Suitable for wet locations

Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** EL807/9L3KUV/XX | **Type:** S3 | LV - CENTRAL24-200106

KIM LIGHTING®

Wall, Step , Path Light EL807

120 / 277 VOLT DIE-CAST ALUMINUM LED

Lumen Data

Spectroradiometric

	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≥75	≥70	≥65

ELECTRICAL - Drive Current #350mA (3 LEDs)

Volts - AC	Amps - AC	System Watts
120	0.13	5.3
208	0.08	5.3
240	0.08	5.3
277	0.06	5.3

ELECTRICAL - Drive Current #350mA (9 LEDs)

Volts - AC	Amps - AC	System Watts
120	0.09	10.5
208	0.05	10.5
240	0.04	10.5
277	0.04	10.5

Absolute Lumens (3 LEDs)

Temperature	EL807/3L *K
3000K	61
4200K	71
5100K	78

Absolute Lumens (9 LEDs)

Temperature	EL807/9L *K
3000K	167
4200K	188
5100K	211

Lumens Per Watt (3 LEDs)

Temperature	EL807/3L *K
3000K	11.5
4200K	13.4
5100K	14.7

Lumens Per Watt (9 LEDs)

Temperature	EL807/9L *K
3000K	11.9
4200K	17.9
5100K	20.1

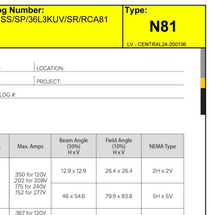
Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** RZR/PLED-III-W/40LED-525MA/30K/UNV/1/XXX/HS-PLED/40 | **Type:** V3-BC | LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

PROJECT NAME:
PROJECT TYPE:

AREA & ROADWAY LIGHTING

RAZAR SERIES - LED
LOW PROFILE AREA LUMINAIRE



Optical Housing
Heavy cast aluminum assembly minimum wall thickness .188". LED Module mounting area is machined to within a 0.002" surface flatness variance for maximum surface contact and thermal conductivity from the LED modules to the radiating fins. Passive radiating fins above the LED Optics provide superior thermal management and long LED life.The optical and electrical compartments are integrated with the support arm to create one assembly. Cast and hinged driver compartment cover allows access to the drivers and wiring.

Electrical Housing w/ Integrated Arm
Heavy cast aluminum assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

Mast Arm Fitter/Electrical Housing
Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon.Two (2) straps with two (2) bolts each encircle the lower mast of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5 or +3° up from the horizontal. All hardware is stainless steel.

PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. Multiple optical configurations (Type II/Type III/Type IV/Type V/Left Wall Wash/Right Wall Wash) are all interchangeable by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. All fixture optical options will provide a "-U0" no uplight optical package and a are dark sky friendly.

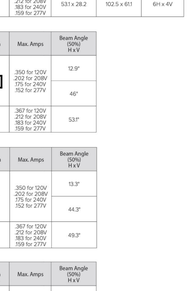
LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max at 150 °C for long life, high lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard Warm White (2700K & 3000K), Neutral White (4000K), or Cool White (5000K). All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TSA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver
Constant current electronic with a power factor of > 90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz. 0 - 10V dimmable driver is standard. Driver has a minimum of 3kV internal surge protection. Luminaire supplied with a separate 20kV surge protector for field installation.

Finish
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.

RZR
(Models: RZR4, RZ0, RZR-G & RZR-MAF)



Fixture	A	B	C	D
RZR-G	19" (483 mm)	36.5" (927 mm)	9" (229 mm)	7" (178 mm)
RZR	14.75" (375 mm)	28.25" (718 mm)	2.75" (70 mm)	6.5" (165 mm)
RZRM	11.5" (292 mm)	23" (584 mm)	2.5" (64 mm)	5.25" (133 mm)
RZR-MAF	19" (483 mm)	28.25" (718 mm)	2.5" (64 mm)	4" (102 mm)

UL Listed for Wet Location

2024281

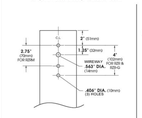
Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** RZR/PLED-III-W/40LED-525MA/30K/UNV/1/XXX/HS-PLED/40 | **Type:** V3-BC | LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

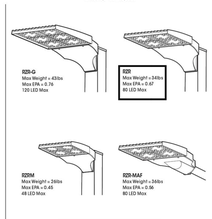
RAZAR SERIES - LED

SPECIFICATIONS

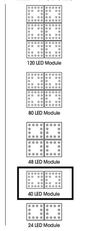
POLE DRILLING TEMPLATE



EPA & WEIGHT



PLED™ MODULES



SELECT FROM STD COLORS

ORDERING INFORMATION

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/UNV/8019-S

Luminaire	Optics	LED Modules	Voltage	Mounting	Finish	Options
RZR	PLED-III-W	40LED-525MA/30K	UNV	1	XXX	HS-PLED/40

Luminaire

- ☐ RZR-G
- ☐ RZR
- ☐ RZR-MAF
- ☐ RZRM

Optics — PLED® (extrusion type)

- ☐ PLED-II
- ☐ PLED-II-FR
- ☐ PLED-II-MIL
- ☐ PLED-III
- ■ PLED-III-W
- ☐ PLED-IV
- ☐ PLED-IV-FT
- ☐ PLED-V/50-N
- ☐ PLED-V/50-M
- ☐ PLED-V/50-W

LED

of LEDs
- RZR-G
  - ☐ 120LED
  - ☐ 80LED
- RZR / RZR-MAF
  - ☐ 80LED
  - ■ 40LED
- RZRM
  - ☐ 48LED
  - ☐ 24LED

Drive Current
- ☐ 1400mA[1]
- ☐ 1225mA[1]
- ☐ 1050mA
- ☐ 875mA
- ☐ 700mA
- ■ 525mA
- ☐ 350mA

Color Temp - CCT
- ☐ 27K (2700K)
- ■ 30K (3000K)
- ☐ 40K (4000K)
- ☐ 50K (5000K)
- ☐ TTA True Amber

Consult Factory for Other LED Color, CCT, & CRI Options

NOTES:
1 - 1400mA & 1225mA drive currents not available in RZRM
2 - TTA available in 350mA & 525mA drive currents only

Consult Factory for Other Drive Currents

Voltage
- UNV (120-277)
- 347
- 480

Mounting
- ■ 1
- ☐ 2-180
- ☐ 2-90
- ☐ 3-90
- ☐ 3-120
- ☐ 4-90

Wall Mount
- ☐ WM

WM - Wall Mount (available with mounting bracket and plate)

Finish

Arm Mount

Standard Textured Finish
- ☐ Black 9005-T
- ☐ White 9003-T
- ☐ Grey 7004-T
- ☐ Dark Bronze 8019-T
- ☐ Green 6005-T

Premium Finishes
- ☐ Rust
- ☐ Patina Copper PC

for smooth finish replace suffix "T" with suffix "S" (Example: 9005-S)

Consult Factory for custom colors

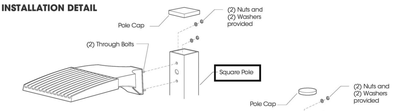
Options
- ☐ Internal House Side Shield (Available in RZR-G Only) (Example: HS-PLED/40) — HSRZR /40
- ☐ External Glare Shield 4 Sided — EGS4
- ☐ External Glare Shield 3 Sided Short Wedge — EGS3W
- ☐ Round Pole Adapter — RPA
- ☐ Twist Lock Receptacle Only — TRR
- ☐ 7-Pin Twist Lock Receptacle Only — TR7
- ☐ High-Low Dimming for Constant Wattage (Available with 30/40 or 35/50) (Example: H/4K35) — H3W
- ☐ Twist Lock Photocell + Voltage (Example: TPC4V) — TPC-V
- ☐ Photo Cell + Voltage (Example: PC-7V) — PC-V
- ☐ Single Fuse (120V-277V) — SF
- ☐ Double Fuse (208V-240V) — DF
- ☐ Blue Tooth Programmable Profile/Motion Sensor (Factory - Motion &2100, Profile 3Sc) — MSF2311

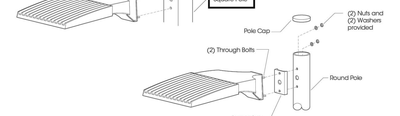
Submitted by Lighting Virginia-Central | **Job Name:** ALBEMARLE CO. REGIONAL JAIL SITE | **Catalog Number:** RZR/PLED-III-W/40LED-525MA/30K/UNV/1/XXX/HS-PLED/40 | **Type:** V3-BC | LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

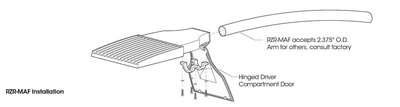
RAZAR SERIES - LED

INSTALLATION DETAIL

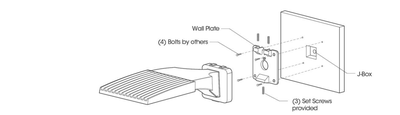




RZR Installation



RZR-MAF Installation



RZR-WM Installation

MOSELEY ARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

LIGHTING VIRGINIA

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62567-305

ALBEMARLE COUNTY REGIONAL JAIL
EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS

DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

LIGHTING CUTSHEETS

L302

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Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	RZR/PLED-V-SQ-M/80LED-350MA/30K/UNV/2-180/XXX Notes:	V5-BB LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

RAZAR SERIES - LED

ELECTRICAL DATA GUIDE - AMPERAGE CHART

ELECTRICAL LOAD			CURRENT (Amps)				
# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
24	350	26	0.21	0.12	0.09	0.07	0.05
24	525	39	0.32	0.19	0.14	0.11	0.08
24	700	52	0.43	0.25	0.19	0.15	0.11
24	875	67	0.55	0.32	0.24	0.19	0.14
24	1050	81	0.67	0.39	0.29	0.23	0.17
48	350	52	0.43	0.25	0.19	0.15	0.11
48	525	78	0.65	0.37	0.28	0.22	0.16
48	700	104	0.87	0.50	0.38	0.30	0.22
48	875	133	1.11	0.64	0.48	0.38	0.28
48	1050	162	1.35	0.78	0.58	0.47	0.34
40	350	43	0.36	0.21	0.15	0.12	0.09
40	525	65	0.54	0.31	0.23	0.19	0.14
40	700	87	0.72	0.42	0.31	0.25	0.18
40	875	111	0.92	0.53	0.40	0.32	0.23
40	1050	135	1.12	0.65	0.49	0.39	0.28
40	1225	159	1.32	0.76	0.57	0.46	0.33
40	1400	183	1.53	0.88	0.66	0.53	0.38
80	350	86	0.72	0.41	0.31	0.25	0.18
80	525	130	1.08	0.62	0.47	0.37	0.27
80	700	174	1.45	0.83	0.63	0.50	0.36
80	875	222	1.85	1.06	0.80	0.64	0.46
80	1050	270	2.25	1.30	0.97	0.78	0.56
80	1225	318	2.65	1.53	1.15	0.92	0.66
80	1400	366	3.05	1.76	1.32	1.06	0.76
120	350	129	1.07	0.62	0.46	0.37	0.27
120	525	195	1.62	0.94	0.70	0.56	0.41
120	700	260	2.17	1.25	0.94	0.75	0.54
120	875	332	2.77	1.60	1.20	0.96	0.69
120	1050	404	3.37	1.94	1.46	1.17	0.84
120	1225	477	3.97	2.29	1.72	1.37	0.99
120	1400	549	4.58	2.64	1.98	1.58	1.14

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED LUMEN MAINTENANCE (350mA to 1050mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L96	0.96x
100,000 (6X LED Test Hrs)	L93	0.93x
150,000 (Theoretical)	L89	0.90x
200,000 (Theoretical)	L86	0.87x

TM-21 6x Test Time Dicatates that L93 > 100,000 Hours.

LED LUMEN MAINTENANCE (1225mA & 1400mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L93	0.93x
100,000 (6X LED Test Hrs)	L89	0.89x
150,000 (Theoretical)	L84	0.84x
200,000 (Theoretical)	L80	0.80x

TM-21 6x Test Time Dicatates that L93 > 100,000 Hours.
Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)

IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

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Submitted On: Dec 18, 2024 — 4/6 — Index Page

Submitted by Lighting Virginia-Central

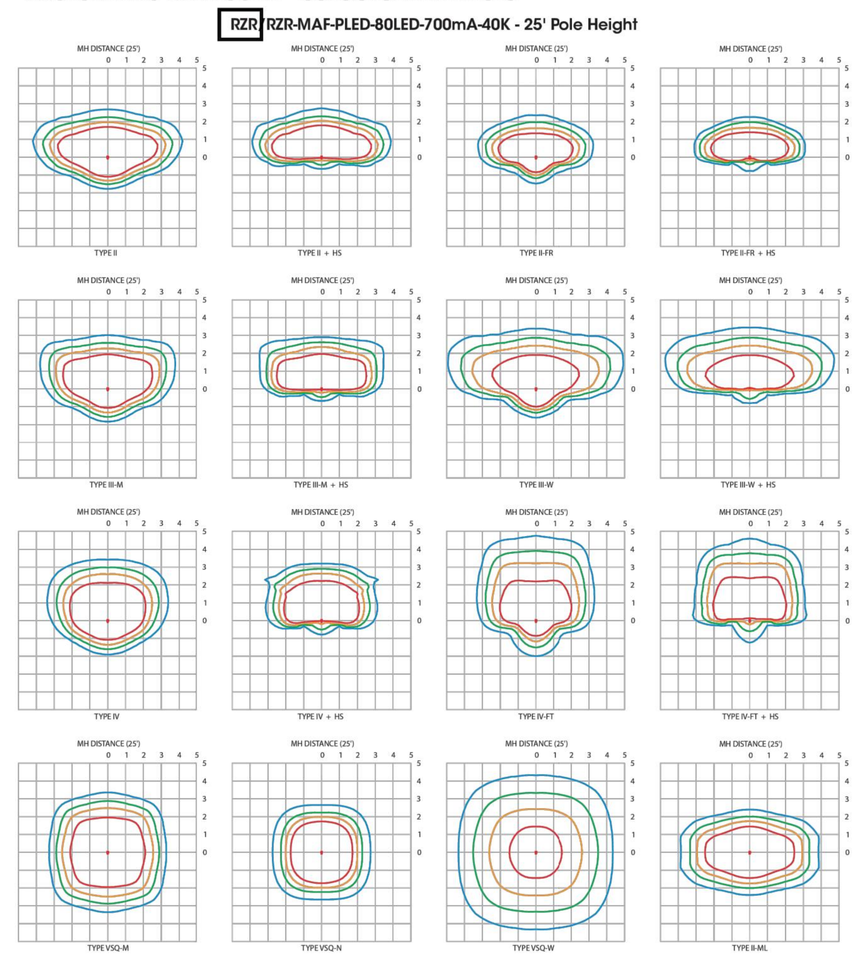
Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	RZR/PLED-V-SQ-M/80LED-350MA/30K/UNV/2-180/XXX Notes:	V5-BB LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

RAZAR SERIES - LED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

RZR/RZR-MAF-PLED-80LED-700mA-40K - 25' Pole Height



IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

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Submitted On: Dec 18, 2024 — 5/6 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	RZR/PLED-V-SQ-M/80LED-350MA/30K/UNV/2-180/XXX Notes:	V5-BB LV - CENTRAL24-200106

U.S. ARCHITECTURAL LIGHTING

RAZAR SERIES - LED

PHOTOMETRIC GUIDE - LUMEN TABLES

RZR/RZR-MAF-PLED

LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI) LUMENS	LPW	BUG RATING	30K (3000K - 70CRI) LUMENS	LPW	BUG RATING	40K (4000K - 70CRI) LUMENS	LPW	BUG RATING	50K (5000K - 70CRI) LUMENS	LPW	BUG RATING	System Watts	TRA (590nm) LUMENS	LPW	BUG RATING
80	350	85.8	II	12597	147	B2-U0-G2	13145	153	B2-U0-G2	13692	160	B2-U0-G2	14240	166	B2-U0-G2	67.0	4475	67	B1-U0-G1
			II-FR	12681	148	B3-U0-G1	13233	154	B3-U0-G1	13784	161	B3-U0-G1	14335	167	B3-U0-G1		4504	67	B1-U0-G1
			II-ML	12597	147	B3-U0-G3	13145	153	B3-U0-G3	13693	160	B3-U0-G3	14241	166	B3-U0-G3		4475	67	B2-U0-G2
			III-M	12817	149	B2-U0-G2	13375	156	B2-U0-G2	13932	162	B2-U0-G2	14489	169	B2-U0-G2		4553	68	B1-U0-G1
			III-W	11901	139	B2-U0-G3	12418	145	B2-U0-G3	12936	151	B2-U0-G3	13453	157	B2-U0-G3		4228	63	B1-U0-G2
			IV	12721	148	B2-U0-G2	13274	155	B2-U0-G2	13827	161	B2-U0-G2	14380	168	B2-U0-G2		4518	67	B1-U0-G1
			IV-FT	11588	135	B2-U0-G3	12092	141	B2-U0-G3	12596	147	B2-U0-G3	13099	153	B2-U0-G3		4117	61	B1-U0-G1
			VSQ-N	13295	155	B3-U0-G1	13874	162	B3-U0-G1	14452	168	B3-U0-G1	15030	175	B3-U0-G1		4723	70	B2-U0-G1
			VSQ-M	13038	152	B4-U0-G2	13605	159	B4-U0-G2	14172	165	B4-U0-G2	14738	172	B4-U0-G2		4631	69	B3-U0-G1
			VSQ-W	12726	148	B4-U0-G3	13280	155	B4-U0-G3	13833	161	B4-U0-G3	14386	168	B4-U0-G3		4520	67	B3-U0-G2
			II-HS	9213	107	B1-U0-G2	9613	112	B1-U0-G2	10014	117	B1-U0-G2	10414	121	B1-U0-G2		3273	49	B0-U0-G1
			II-FR-HS	9371	109	B1-U0-G1	9779	114	B1-U0-G1	10186	119	B1-U0-G1	10594	123	B1-U0-G1		3329	50	B0-U0-G1
			III-M-HS	9321	109	B1-U0-G2	9726	113	B1-U0-G2	10131	118	B1-U0-G2	10536	123	B1-U0-G2		3311	49	B0-U0-G1
			III-W-HS	9123	106	B1-U0-G2	9520	111	B1-U0-G3	9916	116	B1-U0-G3	10313	120	B1-U0-G3		3240	48	B0-U0-G1
			IV-HS	9627	112	B1-U0-G2	10046	117	B1-U0-G2	10464	122	B1-U0-G2	10882	127	B1-U0-G2		3420	51	B0-U0-G1
			IV-FT-HS	9098	106	B1-U0-G3	9494	111	B1-U0-G3	9889	115	B1-U0-G3	10285	120	B1-U0-G3		3232	48	B0-U0-G2
80	525	129.7	II	18101	140	B3-U0-G3	18889	146	B3-U0-G3	19676	152	B3-U0-G3	20462	158	B3-U0-G3	101.0	5251	52	B1-U0-G1
			II-FR	18223	141	B3-U0-G2	19016	147	B3-U0-G2	19808	153	B3-U0-G2	20600	159	B3-U0-G2		5286	52	B1-U0-G1
			II-ML	18102	140	B4-U0-G4	18889	146	B4-U0-G4	19676	152	B4-U0-G4	20463	158	B4-U0-G4		5251	52	B2-U0-G2
			III-M	18418	142	B3-U0-G3	19219	148	B3-U0-G3	20020	154	B3-U0-G3	20821	161	B3-U0-G3		5343	53	B1-U0-G2
			III-W	17101	132	B3-U0-G3	17845	138	B3-U0-G3	18589	143	B3-U0-G4	19332	149	B3-U0-G4		4961	49	B1-U0-G2
			IV	18280	141	B3-U0-G3	19075	147	B3-U0-G3	19869	153	B3-U0-G3	20664	159	B3-U0-G3		5302	52	B1-U0-G1
			IV-FT	16652	128	B3-U0-G4	17376	134	B3-U0-G4	18100	140	B3-U0-G4	18824	145	B3-U0-G4		4830	48	B1-U0-G2
			VSQ-N	19106	147	B4-U0-G2	19936	154	B4-U0-G2	20767	160	B4-U0-G2	21598	167	B4-U0-G2		5542	55	B2-U0-G1
			VSQ-M	18736	144	B4-U0-G2	19550	151	B4-U0-G2	20365	157	B4-U0-G2	21179	163	B5-U0-G3		5434	54	B3-U0-G1
			VSQ-W	18288	141	B5-U0-G3	19083	147	B5-U0-G3	19878	153	B5-U0-G3	20673	159	B5-U0-G3		5304	53	B3-U0-G2
			II-HS	13238	102	B1-U0-G3	13814	107	B1-U0-G3	14390	111	B1-U0-G3	14965	115	B1-U0-G3		3841	38	B0-U0-G1
			II-FR-HS	13467	104	B1-U0-G2	14052	108	B1-U0-G2	14638	113	B1-U0-G2	15223	117	B1-U0-G2		3906	39	B0-U0-G1
			III-M-HS	13393	103	B1-U0-G3	13976	108	B1-U0-G3	14558	112	B1-U0-G3	15140	117	B1-U0-G3		3885	38	B0-U0-G1
			III-W-HS	13110	101	B1-U0-G3	13679	105	B1-U0-G3	14250	110	B1-U0-G3	14820	114	B1-U0-G4		3803	38	B0-U0-G2
			IV-HS	13834	107	B1-U0-G3	14435	111	B1-U0-G3	15037	116	B1-U0-G3	15638	121	B1-U0-G3		4013	40	B0-U0-G1
			IV-FT-HS	13074	101	B1-U0-G3	13642	105	B1-U0-G3	14211	110	B1-U0-G4	14779	114	B1-U0-G4		3792	38	B0-U0-G2
80	700	173.5	II	22914	132	B3-U0-G3	23910	138	B3-U0-G3	24906	144	B3-U0-G3	25902	149	B3-U0-G3	N/A	N/A		
			II-FR	23068	133	B3-U0-G2	24070	139	B3-U0-G2	25073	145	B3-U0-G2	26076	150	B3-U0-G2				
			II-ML	22914	132	B4-U0-G4	23910	138	B4-U0-G4	24907	144	B4-U0-G4	25903	149	B4-U0-G4				
			III-M	23314	134	B3-U0-G3	24328	140	B3-U0-G4	25342	146	B3-U0-G4	26355	152	B3-U0-G4				
			III-W	21647	125	B3-U0-G4	22589	130	B3-U0-G4	23530	136	B3-U0-G4	24471	141	B3-U0-G4				
			IV	23139	133	B3-U0-G3	24145	139	B3-U0-G3	25152	145	B3-U0-G4	26158	151	B3-U0-G4				
			IV-FT	21079	121	B3-U0-G4	21995	127	B3-U0-G4	22911	132	B3-U0-G4	23828	137	B3-U0-G4				
			VSQ-N	24184	139	B4-U0-G2	25236	145	B4-U0-G2	26287	152	B4-U0-G2	27339	158	B5-U0-G2				
			VSQ-M	23716	137	B5-U0-G3	24747	143	B5-U0-G3	25778	149	B5-U0-G3	26809	155	B5-U0-G3				
			VSQ-W	23149	133	B5-U0-G4	24156	139	B5-U0-G4	25162	145	B5-U0-G4	26169	151	B5-U0-G4				
			II-HS	16758	97	B1-U0-G3	17486	101	B1-U0-G3	18215	105	B1-U0-G3	18944	109	B1-U0-G3				
			II-FR-HS	17046	98	B1-U0-G2	17788	103	B1-U0-G2	18529	107	B1-U0-G2	19270	111	B1-U0-G2				
			III-M-HS	16954	98	B1-U0-G3	17691	102	B1-U0-G4	18428	106	B1-U0-G4	19165	110	B1-U0-G4				
			III-W-HS	16595	96	B1-U0-G4	17316	100	B1-U0-G4	18038	104	B1-U0-G4	18759	108	B1-U0-G4				
			IV-HS	17511	101	B1-U0-G3	18272	105	B1-U0-G3	19034	110	B1-U0-G3	19795	114	B1-U0-G4				
			IV-FT-HS	16549	95	B1-U0-G4	17269	100	B1-U0-G4	17988	104	B1-U0-G4	18708	108	B1-U0-G4				
80	875	221.5	II	27459	124	B3-U0-G4	28653	129	B3-U0-G4	29847	135	B4-U0-G4	31040	140	B4-U0-G4	N/A	N/A		
			II-FR	27643	125	B3-U0-G2	28845	130	B4-U0-G2	30047	136	B4-U0-G2	31249	141	B4-U0-G2				
			II-ML	27460	124	B4-U0-G4	28654	129	B4-U0-G4	29848	135	B5-U0-G5	31042	140	B5-U0-G5				
			III-M	27939	126	B3-U0-G4	29154	132	B3-U0-G4	30369	137	B3-U0-G4	31584	143	B4-U0-G4				
			III-W	25942	117	B3-U0-G4	27070	122	B3-U0-G4	28198	127	B3-U0-G4	29326	132	B3-U0-G5				
			IV	27729	125	B3-U0-G4	28935	131	B3-U0-G4	30141	136	B3-U0-G4	31346	142	B4-U0-G4				
			IV-FT	25260	114	B3-U0-G5	26358	119	B3-U0-G5	27456	124	B3-U0-G5	28554	129	B3-U0-G5				
			VSQ-N	28982	131	B5-U0-G2	30242	137	B5-U0-G2	31502	142	B5-U0-G2	32762	148	B5-U0-G2				
			VSQ-M	28420	128	B5-U0-G3	29656	134	B5-U0-G3	30892	139	B5-U0-G3	32128	145	B5-U0-G4				
			VSQ-W	27742	125	B5-U0-G4	28948	131	B5-U0-G4	30154	136	B5-U0-G4	31360	142	B5-U0-G4				
			II-HS	20082	91	B1-U0-G4	20955	95	B2-U0-G4	21828	99	B2-U0-G4	22701	102	B2-U0-G4				
			II-FR-HS	20428	92	B1-U0-G2	21316	96	B1-U0-G2	22204	100	B1-U0-G2	23092	104	B1-U0-G2				
			III-M-HS	20317	92	B1-U0-G4	21200	96	B1-U0-G4	22084	100	B1-U0-G4	22967	104	B1-U0-G4				
			III-W-HS	19887	90	B1-U0-G4	20751	94	B1-U0-G4	21616	98	B1-U0-G4	22481	101	B1-U0-G4				
			IV-HS	20985	95	B1-U0-G4	21897	99	B1-U0-G4	22810	103	B1-U0-G4	23722	107	B1-U0-G4				
			IV-FT-HS	19832	90	B1-U0-G4	20695	93	B1-U0-G4	21557	97	B1-U0-G4	22419	101	B1-U0-G5				
80	1050	269.5	II	31240	116	B4-U0-G4	32598	121	B4-U0-G4	33957	126	B4-U0-G4	35315	131	B4-U0-G4	N/A	N/A		
			II-FR	31450	117	B4-U0-G2	32817	122	B4-U0-G2	34185	127	B4-U0-G2	35552	132	B4-U0-G2				
			II-ML	31241	116	B5-U0-G5	32600	121	B5-U0-G5	33958	126	B5-U0-G5	35317	131	B5-U0-G5				
			III-M	31787	118	B4-U0-G4	33169	123	B4-U0-G4	34551	128	B4-U0-G4	35933	133	B4-U0-G4				
			III-W	29514	110	B3-U0-G5	30797	114	B3-U0-G5	32080	119	B3-U0-G5	33364	124	B3-U0-G5				
			IV	31548	117	B4-U0-G4	32920	122	B4-U0-G4	34291	127	B4-U0-G4	35663	132	B4-U0-G4				
			IV-FT	28738	107	B3-U0-G5	29987	111	B3-U0-G5	31237	116	B3-U0-G5	32487	121	B3-U0-G5				
			VSQ-N	32973	122	B5-U0-G2	34406	128	B5-U0-G2	35840	133	B5-U0-G2	37274	138	B5-U0-G2				
			VSQ-M	32334	120	B5-U0-G4	33740	125	B5-U0-G4	35145	130	B5-U0-G4	36551	136	B5-U0-G4				
			VSQ-W	31561	117	B5-U0-G5	32934	122	B5-U0-G5	34306	127	B5-U0-G5	35678	132	B5-U0-G5				
			II-HS	22847	85	B2-U0-G4	23841	88	B2-U0-G4	24834	92	B2-U0-G4	25827	96	B2-U0-G4				
			II-FR-HS	23241	86	B1-U0-G2	24251	90	B1-U0-G2	25262	94	B1-U0-G2	26272	97	B2-U0-G2				
			III-M-HS	23115	86	B1-U0-G4	24120	89	B1-U0-G4	25125	93	B1-U0-G4	26130	97	B1-U0-G4				
			III-W-HS	22625	84	B1-U0-G4	23609	88	B1-U0-G5	24592	91	B1-U0-G5	25576	95	B1-U0-G5				
			IV-HS	23874	89	B1-U0-G4	24913	92	B1-U0-G4	25950	96	B1-U0-G4	26988	100	B1-U0-G4				
			IV-FT-HS	22563	84	B1-U0-G5	23545	87	B1-U0-G5	24525	91	B1-U0-G5	25506	95	B1-U0-G5				

IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

U.S. Pole Company Inc. | 660 West Avenue O, Palmdale, CA 93551 Phone (661) 233-2000 www.usaltg.com — MADE IN THE USA | 13

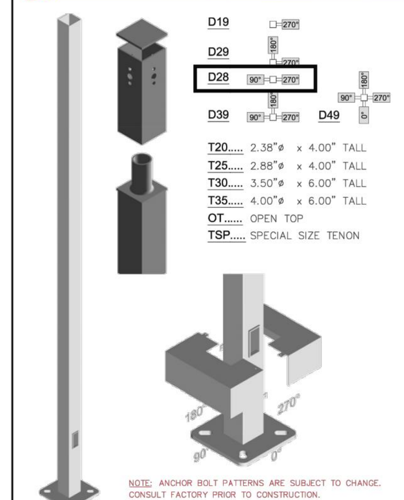
Submitted On: Dec 18, 2024 — 6/6 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	SNS-17.5-40-11-AB-PC(XXX)-D28-BC Notes:	17.5' POLES LV - CENTRAL24-200106

American LitePole

SNS
SQUARE NON-TAPERED STEEL



PROJECT NAME:	TYPE:
QUOTE / ORDER No:	
APPROVED BY:	DATE:

SPECIFICATIONS

POLE SHAFT:
The pole shaft is fabricated from hot rolled commercial quality carbon steel of one piece construction with a minimum yield strngth of 55,000 psi.

BASE PLATE:
The base plate is fabricated from a structural quality hot rolles carbon steel plate that meets or exceeds ASTM A-36 with a minimum yield strength of 36,000 psi. The base plate telescopes the pole shaft and is circumferential welded top and bottom

BASE COVER:
The two-piece standard full base cover is fabricated from ABS plastic. Optional two-piece steel base cover also available.

ANCHOR BOLTS:
Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end in accordance with ASTM A-153.

HANDHOLE:
A reinforced hand hole, having a nominal opening of 2.5"x 5" or 3"x 5" will be installed 18" above the base plate. A hand hole cover with hardware will be included along with grounding provisions.

POLE TOP:
Each pole will be provided with a welded top plate and tenon or top cap for poles receiving drilling for side mount fixtures.

FINISH:
Standard color finishes shall be coated with TGIC polyester powder or hot dip galvanized to ASTM A-123 specifications.

(SNS) Square Straight Anchor Base ALP CATALOG #	HGT (FT)	Base OD (in)	Top OD (in)	Wall Thk (GA)	Structure Weight (lbs)	Base Plate SQ (in)	THK (in)	Bolt Circle	Anchor Bolts Template	Ø	L	80 MPH EPA	WGT	90 MPH EPA	WGT	100 MPH EPA	WGT	110 MPH EPA	WGT	120 MPH EPA	WGT	130 MPH EPA	WGT	140 MPH EPA	WGT	150 MPH EPA	WGT
SNS-10-40-11	10	4.00	4.00	11	75	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	30.6	765	23.8	595	18.9	473	15.0	375	12.2	305	10.0	250	8.4	210	7.1	178
SNS-12-40-11	12	4.00	4.00	11	90	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	24.4	610	18.8	470	14.8	370	11.5	288	9.3	233	7.5	188	6.2	155	5.0	125
SNS-14-40-11	14	4.00	4.00	11	100	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	19.9	498	15.1	378	11.7	293	9.1	228	7.1	180	5.6	140	4.4	110	3.4	85
SNS-15-40-11	15	4.00	4.00	11	110	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	17.2	430	13.2	330	10.0	250	8.0	200	6.2	155	4.8	120	3.7	93	2.7	68
[illegible]	[illegible]	4.00	4.00	11	[illegible]	8.25	0.75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.9	223	6.8	170	5.2	130	3.9	98	2.9	73	1.9	48
SNS-18-40-11	18	4.00	4.00	11	125	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	12.6	315	9.2	230	6.5	168	5.0	125	3.6	90	2.1	60	1.3	33	-	-
[illegible]	20	4.00	4.00	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.5	150	3.5	88	2.0	50	0.8	20	-	-	-	-
SNS-20-40-7	20	4.00	4.00	7	240	8.25	0.88	8.00-9.00	ABT-085-4	0.75	17	15.0	375	11.0	275	9.0	225	7.6	190	5.8	145	4.5	113	3.4	85	2.5	63
SNS-20-50-11	20	5.00	5.00	11	185	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	17.7	443	12.7	343	9.4	235	7.0	175	5.0	125	3.5	88	2.2	55	0.9	25
SNS-20-50-7	20	5.00	5.00	7	265	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	28.1	703	21.4	535	16.2	405	12.3	308	9.5	235	7.3	183	5.6	140	4.2	105
SNS-25-40-11	25	4.00	4.00	11	170	8.25	0.75	8.00-9.00	ABT-085-4	0.75	17	4.8	150	2.6	100	1.0	50	-	-	-	-	-	-	-	-	-	-
SNS-25-40-7	25	4.00	4.00	7	245	8.25	0.88	8.00-9.00	ABT-085-4	0.75	17	10.8	270	7.7	188	5.4	435	3.9	100	2.6	65	1.6	40	0.8	20	0.2	5
SNS-25-50-11	25	5.00	5.00	11	225	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	9.8	245	6.3	157	3.7	150	2.5	63	0.7	18	-	-	-	-	-	-
SNS-25-50-7	25	5.00	5.00	7	360	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	18.5	463	13.3	333	9.5	238	6.6	165	4.5	113	2.9	75	1.4	35	-	-
SNS-30-40-7	30	4.00	4.00	7	291	8.25	0.88	8.00-9.00	ABT-085-4	0.75	17	6.7	168	4.4	110	2.6	65	1.4	35	0.4	10	-	-	-	-	-	-
SNS-30-50-11	30	5.00	5.00	11	265	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	4.7	150	2.0	50	-	-	-	-	-	-	-	-	-	-	-	-
SNS-30-50-7	30	5.00	5.00	7	380	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	10.7	267	6.7	167	3.9	100	2.5	63	0.3	10	-	-	-	-	-	-
SNS-30-60-7	30	6.00	6.00	7	520	12.50	1.00	11.00-13.00	ABT-120-4	1.00	36	19.0	475	13.2	330	9.0	225	6.0	150	3.6	90	1.3	33	-	-	-	-
SNS-35-50-7	35	5.00	5.00	7	440	11.00	1.00	10.00-12.00	ABT-110-4	0.75	17	5.9	150	2.5	100	-	-	-	-	-	-	-	-	-	-	-	-
SNS-35-60-7	35	6.00	6.00	7	540	12.50	1.00	11.00-13.00	ABT-120-4	1.00	36	12.4	310	7.6	190	4.2	105	1.2	30	-	-	-	-	-	-	-	-
SNS-39-60-7	39	6.00	6.00	7	605	12.50	1.00	11.00-13.00	ABT-120-4	1.00	36	7.2	180	3.0	75	-	-	-	-	-	-	-	-	-	-	-	-

ORDERING CODE	CATALOG No.	BASE	FINISH	FIXTURE MOUNT	BASE COVER	OPTIONS	OPTIONS
	SNS-17.5-40-11	AB	PC(XXX)	D28	BC		
		AB–ANCHOR BOLT LAB–LESS ANCHOR BOLTS	DB–DARK BRONZE MB–MEDIUM BRONZE WH–WHITE BL–BLACK LG–LIGHT GRAY SM–SILVER METALLIC SL–SILVER HG–HUNTER GREEN RD–RED G–GALVANIZED GPXX–PAINTED OVER GALV	D19 D28 D29 D32 D39 D49 T20 T25 T30 T35 OT TSP–ADVISE TC– TOP CAP ONLY	BC–PLASTIC (STD) BCS–STEEL BCA–ALUMINUM NC–NUT COVERS	XHH–EXTRA HANDHOLE FES–FESTOON (GFI BY OTHERS) DMP–VIBRATION DAMPER CP50–.50" COUPLING CP75–.75" COUPLING CP10–1.00" COUPLING CP20–2.00" COUPLING NP50–.50" NIPPLE NP75–.75" NIPPLE NP10–1.00" NIPPLE MBP–MODIFIED BASE PLATE	

18' POLE CUT TO 17.5' FOR MTG ON 2.5' BASE - BY OTHERS TOTAL MGT HGT TO LIGHT CTR IS 20' AFG

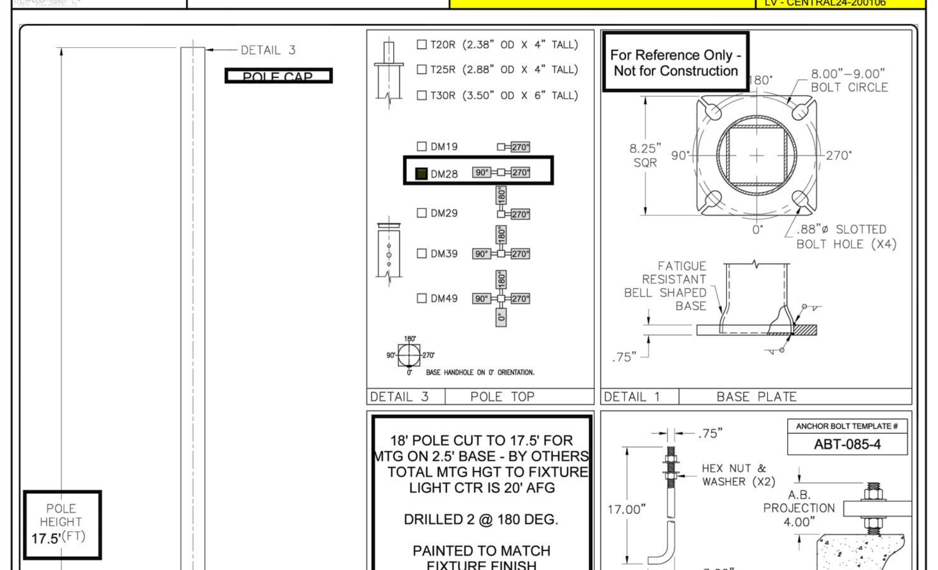
PAINTED TO MATCH FIXTURE FINISH - VERIFY COLOR

AMERICAN LITE POLE 2800 S. HULEN, SUITE 200 – FORT WORTH, TX 76109 866–474–7200 WWW.ALPPOLES.COM

Submitted On: Dec 18, 2024 — 1/2 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	SNS-17.5-40-11-AB-PC(XXX)-D28-BC Notes:	17.5' POLES LV - CENTRAL24-200106



1) HARDWARE TO BE GALVANIZED TO: ASTM A153
2) ANCHOR BOLTS SHALL BE FULLY GALVANIZED PER ASTM A153.
3) ALL WELDING TO CONFORM TO: AWS D1.1 MOST RECENT EDITION.
4) FABRICATION MEETS AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) QUALITY CERTIFICATION.
5) PROVISIONS FOR GROUNDING LOCATED AT BASE HAND HOLE.
6) VIBRATION DISCLAIMER: ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USERS MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE. ALP WARRANTY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE POLE.

LOADING DATA								
DESIGN CRITERIA:	COMMERCIAL STANDARD							
WIND SPEED (mph) 1.3 GUST	80	90	100	110	120	130	140	150
EPA FT²	12.6	9.2	6.5	5.0	3.6	2.1	1.3	–
WEIGHT (lbs)	315	230	168	125	90	60	33	–

MATERIAL DATA	
COMPONENT	ASTM
POLE SHAFT	A500 GR. B
BASE PLATE	A36
ANCHOR BOLTS	F1554 GR.55
MISC. STEEL	A36

FINISH	
TBD	POWDER COAT - DARK BRONZE

POLE DIMENSION DATA						
TYPE	DESIGN	POLE LENGTH (FT)	BASE DIA. (IN)	TOP DIA. (IN)	GAUGE OR THK (IN)	WEIGHT (LBS)
	SNS-17.5-40-11-AB	17.5	4.00	4.00	11–GA (.1196")	125

DETAIL — GENERAL NOTES

American LitePole — AMERICAN LITE POLE 2800 S. HULEN, SUITE 200 FORT WORTH, TX 76109 817-924-3682 PH. 817-924-7049 FAX

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DESCRIPTION: SQUARE STRAIGHT STEEL ANCHOR BASE 17.5' x 4.0" x 11 GA

DATE: 061014 — DWG BY: BM — SCALE: NTS — CHKD BY: CKR — DRAWING NUMBER: SNS-18-40-11-AB

Submitted On: Dec 18, 2024 — 2/2 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	ULEW-30021-20W-T3-W30-XX-120/277V Notes:	WP3 LV - CENTRAL24-200106

ULEW-30021
Leeds 3 Large Surface Wedge Downlight

microVos TECHNOLOGY — LIGMAN LIGHTING USA



20w LED 2422 Lumens • 28w LED 3200 Lumens
IP65 • Suitable For Wet Locations
IK07 • Impact Resistant
Weight 18 lbs

Mounting Detail

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.

Type I — Type II — Type III — Type IV — Type V

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

HYBRID TYPE I & TYPE IV

Construction

Aluminum — Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint — 8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket — Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management — LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression — Standard 10kv surge suppressor provided with all fixtures.

BUG Rating — B1 - U0 - G0 [T2, T4]; B1 - U0 - G1 [T1, T3, ME]; B2 - U0 - G0 [M, W]

Finishing — All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint — UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes — The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process — After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV resistant)
• TGIC free (non-toxic)

Hardware — Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes — Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens — Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED — Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life — L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Clean, beautiful, surface wall fixtures with class leading performance. Minimalist form, yet the most powerful and flexible lighting tool of its type, offering packages up to 2,400 lumens and microVos technology.

A range of small, square and rectangular, ADA compliant wall mounted luminaires with options of upward or downward light distributions. Ideally suited to illuminate the wall and surfaces in front of wall and for light accents on vertical surfaces using high efficiency LED's. The Leeds is suitable for indoor and outdoor applications and provides a clean, visually appealing solution for small, unobtrusive wall mounted luminaires.

This luminaire is available in 3 different sizes and in combinations of down, up or up/down light distributions.

This fixture utilizes microVos technology, meaning the ability to do Type I,II,III,IV & V distributions as well as hybrid distributions to suit the designer's requirements.

Using the microVos optics allows for very wide spacing to mounting height ratios, while still providing perfect uniformity and code compliant light levels.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix mounted (+/- 15° allowable to permit leveling).

Additional Options (Consult Factory For Pricing)

BPC Button Photocell

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information.

Submitted On: Dec 18, 2024 — 1/3 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	ULEW-30021-20W-T3-W30-XX-120/277V Notes:	WP3 LV - CENTRAL24-200106

ULEW-30021
Leeds 3 Large Surface Wedge Downlight

microVos TECHNOLOGY — LIGMAN LIGHTING USA

PROJECT | DATE
QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || ULEW - 30021 - 20w - T2 - W30 - 02 - 120/277v - Options

ULEW-30021	20W	T3	W30	XX	120/277V
	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
	20w LED 2422 Lumens 28w LED 3200 Lumens	T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution M - Medium 30° W - Wide 56° EW - Extra Wide 99°x102°	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify

INSPIRED BY NATURE FINISHES
SW01 - OAK FINISH
SW02 - WALNUT FINISH
SW03- PINE FINISH
DF - DOUGLAS FIR FINISH
CW - CHERRY WOOD FINISH
NW - NATIONAL WALNUT FINISH
SU01 - CONCRETE FINISH
SU02 - SOFTSCAPE FINISH
SU03 - STONE FINISH
SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

SELECT FROM STD COLORS

ADDITIONAL OPTIONS

NAT - Natatorium Rated
SCE - Surface Conduit Decorative Trim
F - Frosted Lens
BPC - Button Photocell
AMB - Turtle Friendly Amber LED
DIM - 0-10v Dimming

More Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak — Cherry — Beech — Carbon — Walnut — Chestnut — Bamboo — Galvanized — Pine — Mahogany — Birch — Steel



Example: Inspired by Nature Finish

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

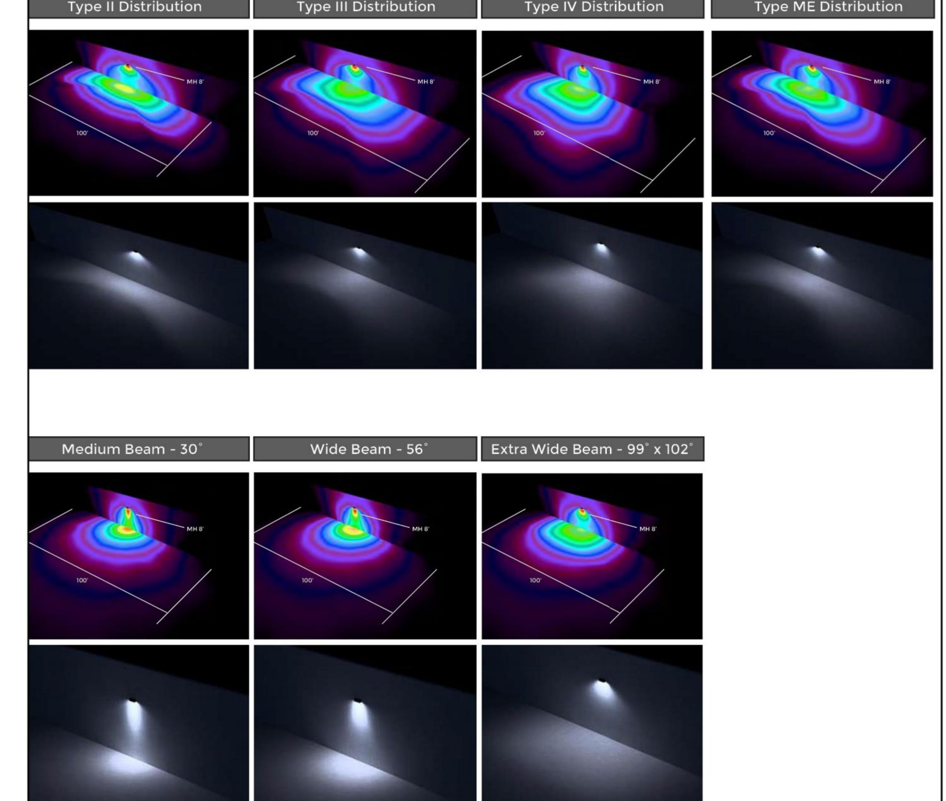
Submitted On: Dec 18, 2024 — 2/3 — Index Page

Submitted by Lighting Virginia-Central

Job Name:	Catalog Number:	Type:
ALBEMARLE CO. REGIONAL JAIL SITE	ULEW-30021-20W-T3-W30-XX-120/277V Notes:	WP3 LV - CENTRAL24-200106

Type II Distribution — Type III Distribution — Type IV Distribution — Type ME Distribution

Medium Beam - 30° — Wide Beam - 56° — Extra Wide Beam - 99° x 102°



Submitted On: Dec 18, 2024 — 3/3 — Index Page

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ALBEMARLE COUNTY REGIONAL JAIL EXPANSION AND RENOVATION
160 PEREGORY LANE, CHARLOTTESVILLE, VIRGINIA 22902

PROJECT NO: 632552
DATE: DECEMBER 20, 2024

REVISIONS	
DATE	DESCRIPTION
10-09-24	1ST SUBMISSION
12-20-24	2ND SUBMISSION

LIGHTING CUTSHEETS

L304

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