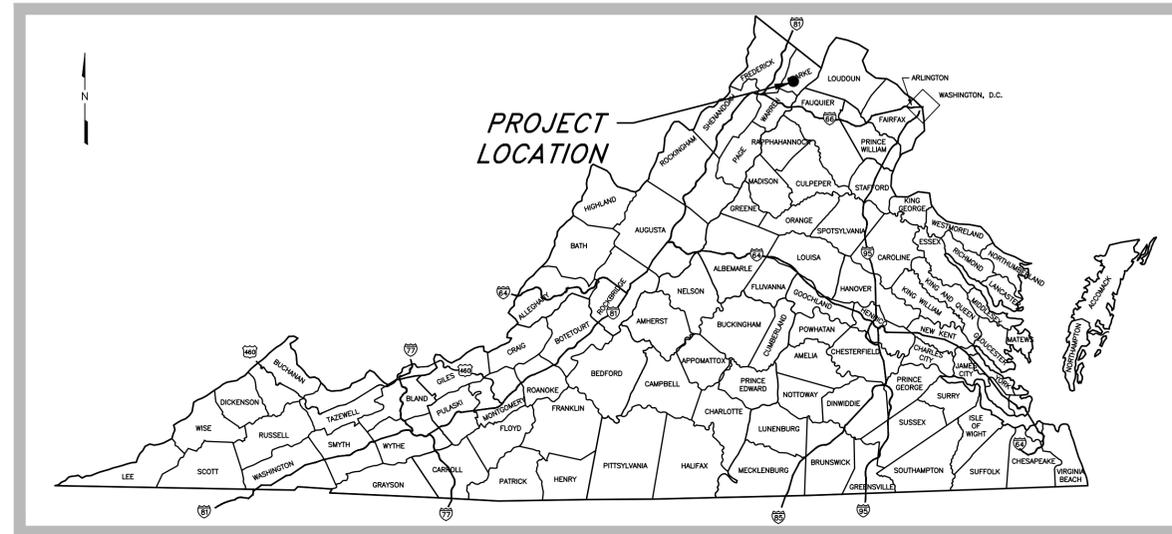


NEW ACCESSIBLE ROUTE BOYCE ELEMENTARY SCHOOL CLARKE COUNTY, VA

EXISTING	ITEM	PROPOSED
8" w	WATER LINE	8" w
8" ss	SANITARY SEWER	8" w
24"	STORM DRAIN	18" w
g	GAS LINE	g
tv	TELEVISION CABLE	tv
ugt	U/G TELEPHONE	ugt
uge	U/G ELECTRIC	uge
oht	O/H TELEPHONE	oht
ohp	O/H POWER	ohp
Rw	RIGHT-OF-WAY LINE	Rw
P	PROPERTY LINE	P
C	CENTERLINE	C
S	SETBACK LINE	S
PERM. UTILITY EASEMENT		
CONTOUR LINE - INDEX		83.5
CONTOUR LINE - INTERMEDIATE		
76.9 X	SPOT ELEVATION	+ 83.5
N/A	LIMITS OF DISTURBANCE	
A	SANITARY MANHOLE MARKER	A
B	STORM SEWER MARKER	B
▲	BENCHMARK	▲
△	HORIZONTAL CONTROL	△
●	BOLLARD	
○	BORE HOLE	N/A
WM	WATER METER	WM
V	VALVE	V
FH	FIRE HYDRANT	FH
R	REDUCER	R
CN	CLEANOUT	CN
GM	GAS METER	GM
WMH	WATER MANHOLE	WMH
WSP	WATER SPIGOT	WSP
W	WELL	N/A
SSMH	SANITARY SEWER MANHOLE	SSMH
SMH	STORM MANHOLE	SMH
WH	WINGED HEADWALL	WH
H	HEADWALL	H
N/A	VDOT STD. DROP INLET #1	
N/A	VDOT STD. DROP INLET #7	
DI	DROP INLET	N/A
HS	HANDICAP SPACE	HS
N/A	HANDICAP RAMP	
EB	ELECTRIC BOX	N/A
EM	ELECTRIC MANHOLE	N/A
TB	TELEPHONE BOOTH	N/A
TP	TELEPHONE PEDESTAL	N/A
T	TRANSFORMER	T
TP	TELEPHONE OR TELEGRAPH POLE	TP
PP	POWER POLE	PP
GW	GUY WIRE	N/A
S	SIGN	S
LP	LIGHT POLE	LP
F	FENCE	F
DS	DECIDUOUS SHRUB	DS
DT	DECIDUOUS TREE	DT
ES	EVERGREEN SHRUB	ES
ET	EVERGREEN TREE	ET
W	WOODS	N/A
PC	PROPERTY CORNER	N/A
GR	GRAVEL ROAD	GR
AP	ASPHALT PAVEMENT	AP
N/A	HEAVY DUTY PAVEMENT	
N/A	CONCRETE	
N/A	HEAVY DUTY CONCRETE	



LOCATION MAP
NTS



VICINITY MAP
SCALE: 1" = 2000'

COVER NOTES:

- OWNER:
CLARKE COUNTY PUBLIC SCHOOLS
317 W MAIN ST
BERRYVILLE, VA 22611
- PROPERTY LOCATION:
BOYCE ELEMENTARY SCHOOL
119 W MAIN ST
BOYCE, VA 22620
PARCEL #21A1 A 8
- CIVIL PLANS PREPARED BY:
HURT & PROFFITT, INC.
C/O MARK CLINE
1861 PRATT DRIVE, SUITE 1100
BLACKSBURG, VIRGINIA 24060

- STRUCTURAL PLANS PREPARED BY:
MASTER ENGINEERS & DESIGNERS
C/O JEREMY LUCAS, PE
904 LAKESIDE DRIVE
LYNCHBURG, VIRGINIA 24501

CONTACTS:

- CLARKE COUNTY PUBLIC SCHOOL MAINTENANCE DIVISION
JOEY BRAITHWAITE
370 WESTWOOD ROAD
BERRYVILLE, VA 22611
(540)277-7778

ZONING INFORMATION:

- LOT SIZE IS 8-ACRES.
- LOT IS ZONED TOWN OF BOYCE - RESIDENTIAL (R)
- FOR RESIDENTIAL LOTS 15,000 S.F. AND GREATER, THE FOLLOWING SETBACKS APPLY FOR STRUCTURES:
A. FRONT YARD = 25'
B. SIDE YARD = 15'
C. REAR YARD = 35'
- PROPOSED RAMP AND STAIRS ARE LOCATED IN FRONT YARD AREA. SETBACK EXCEEDS THE 25' REQUIRED.

ABBREVIATIONS

APPROX=APPROXIMATE
BOT=BOTTOM
BP=BEGIN PROFILE
BW=BOTTOM OF WALL
BW(R)=BOTTOM OF WALL (RIGHT SIDE)
C.O.=CLEANOUT
COMM.=COMMUNICATION
CONC.=CONCRETE
DI=DROP INLET
DI=DUCTILE IRON
EG=EXISTING GROUND
ELEC.=ELECTRIC
ELEV.=ELEVATIONS
EP=END PROFILE
EX., EXIST.=EXISTING
F.H.=FIRE HYDRANT
FF=FINISHED FLOOR
H.B.=HORIZONTAL BEND
HDPE=HIGH DENSITY POLYETHYLENE
INT=INTERSECTION
INV.=INVERT
M.H.=MANHOLE
MIN=MINIMUM
MUTCD=MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NFPA=NATIONAL FIRE PROTECTION AGENCY
N.I.C.=NOT IN CONTRACT
N.T.S.=NOT TO SCALE
PROP.=PROPOSED
PSI=POUNDS PER SQUARE INCH
PVC=POLYVINYL CHLORIDE
RCP=REINFORCED CONCRETE PIPE
R.D.=ROOF DRAIN
R/W=RIGHT OF WAY
SS=SANITARY SEWER
SSM=SOIL STABILIZATION MATTING
STD=STANDARD
TC=TOP OF CURB
TELE.=TELEPHONE
TW=TOP OF WALL
TW(R)=TOP OF WALL (RIGHT SIDE)
TYP=TYPICAL
U/G=UNDERGROUND
V.B.=VERTICAL BEND
VESCH=VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
VPC=VERTICAL POINT OF CURVATURE
VPT=VERTICAL POINT OF TANGENCY
WWF=WOVEN WIRE FABRIC

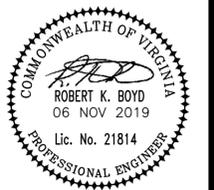
Sheet Number	Sheet Title
C001	COVER SHEET
C002	NOTES SHEET
C100	EXISTING CONDITIONS
C200	SITE PLAN
C300	GRADING AND ESC PLAN
C400	DETAILS AND ESC NOTES
S1	STRUCTURAL DETAILS AND NOTES

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GEOTECHNICAL • CONSTRUCTION TESTING & INSPECTION • CULTURAL RESOURCES



COVER SHEET
NEW ACCESSIBLE ROUTE
BOYCE ELEMENTARY SCHOOL
CLARKE COUNTY, VA

PROJECT NO.	20190897
LAT.	39.095542
LONG.	-78.065138
DATE:	06 NOV 2019
DRAWN BY:	KJH
CHECKED BY:	MTC



COVER SHEET

SHEET NO.
C001

CONSTRUCTION NOTES:

1. COMPLY WITH S59.1-406, ET SEQ. OF THE CODE OF VIRGINIA (OVERHEAD HIGH VOLTAGE LINES SAFETY ACT).
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
3. FENCING, PARKING, AND STAGING AREAS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER.
4. MAINTAIN EMERGENCY, BUS, PEDESTRIAN, AND DELIVERY VEHICLE ACCESS TO THE SURROUNDING AREA AND COORDINATE THIS WITH THE OWNER.
5. THIS PROJECT DOES NOT LIE WITHIN A 100-YEAR FLOOD PLAIN.
6. THIS PROJECT DOES NOT PROPOSE ANY IMPACTS TO WETLANDS OR WATERS OF THE U.S.
7. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE OWNER'S REPRESENTATIVE, WHO SHALL PROMPTLY CORRECT SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR WITHOUT DIRECTION AFTER HIS DISCOVERY OF SUCH INCONSISTENCIES OR AMBIGUITIES, SHALL BE DONE AT THE CONTRACTOR'S RISK.
8. THERE ARE NO KNOWN GRAVES, OBJECTS, OR STRUCTURES ON SITE MARKING PLACE OF HUMAN BURIAL.
9. ACQUIRE ALL NECESSARY PERMITS BEFORE STARTING DEMOLITION/CONSTRUCTION. NOTIFY MISS UTILITY (800-552-7001) A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION FOR FIELD LOCATION OF EXISTING UTILITIES.
10. COORDINATE CONSTRUCTION WITH THE OWNER TO ENSURE THAT BUS AND PEDESTRIAN ROUTES (INCLUDING HANDICAP ACCESSIBLE ROUTES) ARE MAINTAINED THROUGH/AROUND THE PROJECT AREA DURING CONSTRUCTION. MINIMIZE DISRUPTION OF BUS AND PEDESTRIAN ROUTES AND COORDINATE ANY NECESSARY DISRUPTION WITH THE OWNER. ALTERNATIVE PEDESTRIAN ROUTES SHALL BE PROVIDED, REMAIN OPEN, AND BE MARKED WHILE PRIMARY PEDESTRIAN ROUTES ARE BLOCKED. DISTURBANCE OF PEDESTRIAN ROUTES SHALL BE SCHEDULED FOR TIMES OF LOW TRAFFIC. PROVIDE SIGNAGE TO DELINEATE PEDESTRIAN ROUTES AROUND THE CONSTRUCTION SITE FOR THE DURATION OF CONSTRUCTION.
11. BY THE END OF CONSTRUCTION, PROVIDE LEGIBLE, SURVEYED MARK-UPS OF AS-BUILT SITE CONSTRUCTION ITEMS ON SITE PLANS TO THE ENGINEER FOR PREPARATION OF SITE RECORD DRAWINGS. PROVIDE NECESSARY DETAIL TO CONFIRM COMPLIANCE WITH ADAAG.
12. PROVIDE CONSTRUCTION FENCE LOCATED APPROXIMATELY ALONG LIMITS OF CONSTRUCTION LINE SHOWN AND COORDINATE FINAL LAYOUT WITH THE OWNER. FENCING SHALL BE CHAIN LINK (UNLESS OTHERWISE APPROVED BY THE OWNER) AND SHALL BE ADEQUATE TO PREVENT EQUIPMENT AND PERSONNEL FROM TRAVELING ACROSS OR DISTURBING AREAS THAT ARE TO REMAIN UNDISTURBED. CONSTRUCTION PERSONNEL SHALL NOT DISTURB ANY AREAS BEYOND FENCING WITHOUT SPECIFIC PRIOR PERMISSION FROM OWNER. PROVIDE NECESSARY ADJUSTMENTS IN CONSTRUCTION FENCING AND/OR INSTALL ADDITIONAL CONSTRUCTION FENCING TO MAINTAIN ACCESS REQUIREMENTS DURING ALL PHASES OF CONSTRUCTION.

SURVEY AND STAKEOUT NOTES:

1. TOPOGRAPHIC SURVEY WAS PREPARED BY HURT & PROFFIT, INC. DATED AUGUST 29, 2019.
2. HORIZONTAL COORDINATE POINTS ARE BASED ON VA STATE PLANE NAD83 ADJUSTMENT. VERTICAL ELEVATIONS ARE BASED ON NAVD88 DATUM.
3. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL SURVEY CONTROL.
4. EXISTING CONTOUR INTERVAL = 1' UNLESS OTHERWISE SHOWN.

DEMOLITION NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
2. UTILITIES, STRUCTURES, AND VEGETATION TO BE REMOVED/DEMOLISHED ARE SHOWN BOLD ON THE SITE PLAN. NOTIFY OWNER TO REVIEW REMOVAL/ALTERATION OF EXISTING ITEMS FOUND WITHIN WORK AREA BUT NOT SHOWN ON THE PLANS.
3. PAVEMENTS, SIDEWALKS, AND CURBS TO BE REMOVED SHALL BE SAWCUT. SIDEWALKS AND CURBS SHALL BE SAW CUT AT THE NEAREST EXPANSION JOINT OR CONTROL JOINT. PAVEMENT AND SIDEWALKS DISTURBED BY UTILITY CONNECTIONS AND OTHER WORK SHALL BE REPLACED AS SOON AS THE WORK CAUSING THE DISTURBANCE IS COMPLETE.
4. RESTORE ITEMS NOT NOTED TO BE REMOVED THAT ARE DISTURBED DURING CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, UTILITIES, TREES, SIDEWALKS, CURBS, AND PAVEMENT) TO PRECONSTRUCTION CONDITIONS.

DIMENSION AND SITE FURNISHING NOTES:

1. DIMENSIONS ARE PERPENDICULAR TO THE FACE OF CURB, WALLS, BUILDING, SIDEWALK, AND PAVEMENT UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL RETAIN A LICENSED MATERIALS TESTING AGENCY TO PROVIDE SAMPLING/TESTING OF CONCRETE MATERIALS. A SET OF CYLINDERS PER POUR IS REQUIRED FOR STRENGTH TESTING.

PAVING NOTES:

1. SITE CONCRETE SHALL COMPLY WITH STD. DETAIL CP-1. CONTROL JOINTS SHALL BE INSTALLED EVERY 10' (MAX), AND EXPANSION JOINTS SHALL BE INSTALLED EVERY 30' (MAX) UNLESS OTHERWISE NOTED. DOWELS SHALL BE INSTALLED AT EXPANSION JOINTS. INSTALL TURN DOWN CONCRETE CROSS SECTION FOR SIDEWALK WHERE IT ABUTS THE BUILDING PAD.
2. ASPHALT PAVING SHALL COMPLY WITH STD. DETAIL AP-1. WHERE NEW PAVEMENT IS INSTALLED ADJACENT TO EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT 1' BACK FROM THE EXISTING EDGE AND PRIMED WITH VDOT APPROVED PRIMER PRIOR TO PLACEMENT OF NEW ASPHALT MATERIAL.

GENERAL UTILITY NOTES:

1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE BASED ON AVAILABLE ABOVEGROUND STRUCTURES (VALVES, MANHOLES, ETC.). FIELD VERIFY ALL EXISTING UTILITIES TO DETERMINE THAT FINAL UTILITY ARRANGEMENTS SHOWN ON THE PLANS ARE FEASIBLE PRIOR TO ORDERING MATERIALS. IF LOCATIONS OF EXISTING UTILITIES ARE FOUND TO BE IN LOCATIONS OTHER THAN THOSE INDICATED ON PLANS, CONTACT THE OWNER IN A TIMELY MANNER TO DETERMINE IF PLAN MODIFICATIONS ARE REQUIRED.
2. UTILITY SERVICE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. SERVICE SHALL NOT BE INTERRUPTED WITHOUT PRIOR APPROVAL FROM THE OWNER. APPROVED PERIODS OF INTERRUPTED SERVICE SHALL BE MINIMIZED IN DURATION AND SHALL BE COORDINATED WITH THE OWNER AND UTILITY PROVIDER.
3. FIELD VERIFY LOCATION AND SIZE OF EXISTING UTILITIES AT THEIR CONNECTION TO UTILITIES SHOWN ON THE PLANS AS A FIRST STEP TO SITE UTILITY CONSTRUCTION.

GRADING AND DRAINAGE NOTES:

1. CONTOUR INTERVAL IS 1' WITH ADDITIONAL SPOT ELEVATIONS FOR CLARITY, UNLESS SHOWN OTHERWISE.
2. EXISTING UTILITY TOPS SHALL BE ADJUSTED TO FINAL GRADE. UTILITY TOPS SHALL BE INSTALLED FLUSH WITH FINAL GRADE. FIELD VERIFY UTILITY STRUCTURE (MANHOLES, VALVES, ETC.) TOP ELEVATIONS PRIOR TO ORDERING MATERIALS.
3. MAINTAIN DRAINAGE FACILITIES ON AND THROUGH THE SITE AT ALL TIMES DURING CONSTRUCTION. PROVIDE TEMPORARY FACILITIES, PUMPING ARRANGEMENTS, AND/OR CONNECTIONS AS REQUIRED TO MAINTAIN DRAINAGE.
4. MATCH EXISTING GRADE WHERE NEW SIDEWALK/ASPHALT MEETS EXISTING SIDEWALK/ASPHALT.
5. HANDICAP ACCESSIBLE ROUTES SHALL BE INSTALLED AT 5% MAX SLOPE AND 2% MAX CROSS SLOPE. HANDICAP RAMPS AND CURB RAMPS SHALL BE INSTALLED AT 8.33% MAX SLOPE AND 2% MAX CROSS SLOPE. HC PARKING SPACES AND AISLES SHALL BE INSTALLED AT 2% MAX SLOPE IN ANY DIRECTION.
6. DISTURBED AREAS NOT TO BE PAVED SHALL BE TOPSOILED, SEEDED, AND MULCHED ACCORDING TO VESCH STANDARDS. GRADED AREAS AT A SLOPE OF 3:1 OR STEEPER SHALL HAVE SURFACE ROUGHENING ACCORDING TO VESCH STANDARDS.
7. SPOT ELEVATIONS INDICATED ARE FINISHED GRADE, TOP OF PAVEMENT, OR TOP OF SIDEWALK AT THE POINT DESIGNATED BY "+".
8. THE CONTRACTOR SHALL RETAIN A LICENSED INDEPENDENT GEOTECHNICAL ENGINEER AND TESTING LABORATORY TO VERIFY COMPACTION REQUIREMENTS.
9. WHEN FILL OPERATIONS ARE CEASED DUE TO WEATHER (RAIN, FREEZING, SNOW, ETC.), CONSTRUCTION SHALL NOT BE RESUMED UNTIL THE GEOTECHNICAL ENGINEER HAS VERIFIED SOIL STRENGTH HAS NOT BEEN ADVERSELY AFFECTED. IF SOIL STRENGTH HAS BEEN DECREASED, THE AFFECTED PORTION OF FILL SHALL BE RESCARIFIED, MOISTENED, OR DRIED AS REQUIRED AND RECOMPACTED TO THE SPECIFIED DENSITY.
10. BLASTING WILL NOT BE ALLOWED.
11. ALL FILL MATERIALS SHALL BE FREE FROM MUD, REFUSE, CONSTRUCTION DEBRIS, ORGANIC MATERIAL, ROCK OR GRAVEL GREATER THAN 4 INCHES IN ANY DIMENSION, FROZEN OR OTHERWISE UNSUITABLE MATERIAL.
12. ALL VEGETATION SUCH AS ROOTS, BRUSH, HEAVY SODS, HEAVY GROWTH OF GRASS, AND ALL DECAYED VEGETATIVE MATTER, RUBBISH, AND OTHER UNSATISFACTORY MATERIAL WITHIN THE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE STRIPPED OR OTHERWISE REMOVED BEFORE THE FILL IS STARTED. IN NO CASE WILL UNSATISFACTORY MATERIAL REMAIN IN OR UNDER THE FILL AREA.
13. THE CUT SUBGRADE MATERIAL SHALL BE COMPACTED TO 100 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. THE MOISTURE CONTENT SHALL BE WITHIN +/-3 PERCENTAGE POINTS OF THE MATERIAL'S OPTIMUM AS DETERMINED BY ASTM D 2216. SUB-BASE STONE SHALL BE COMPACTED TO 100 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 AT OPTIMUM MOISTURE CONTENT, PER VDOT SPECIFICATIONS.
14. EACH LAYER OF THE FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM THEORETICAL DENSITY AS DETERMINED BY ASTM D 698. MOISTURE CONTENT SHALL BE WITHIN +/-3 PERCENTAGE POINTS OF OPTIMUM AS DETERMINED BY ASTM D 2216.
15. TOPSOIL SHALL BE REMOVED AS REQUIRED WITHOUT CONTAMINATION WITH SUBSOIL

AND STOCKPILED CONVENIENT TO AREAS FOR LATER APPLICATION OR AT LOCATIONS SPECIFIED. ANY SURPLUS OF TOPSOIL OR SOIL FROM EXCAVATIONS AND GRADING SHALL BE DISPOSED OF LEGALLY OFFSITE BY THE CONTRACTOR.

16. ON AREAS TO RECEIVE TOPSOIL, THE COMPACTED SUBGRADE SHALL BE SCARIFIED TO A 2-INCH DEPTH FOR BONDING OF TOPSOIL WITH SUBSOIL. TOPSOIL THEN SHALL BE SPREAD EVENLY AND GRADED TO THE ELEVATIONS AND SLOPES SHOWN. TOPSOIL SHALL NOT BE SPREAD WHEN FROZEN OR EXCESSIVELY WET OR DRY. MINIMUM TOPSOIL THICKNESS OF 4" SHALL BE PROVIDED.
17. TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER, AND SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY QUALIFIED TO PERFORM SUCH TESTS AND APPROVED BY ENGINEER. FIELD DENSITY TESTS CONFORMING TO ASTM D 698, SHALL BE MADE BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE ON EACH SOIL TYPE FOUND IN THE AREAS PREPARED TO RECEIVE FILL AND IN THE SOIL TO BE USED FOR FILL. FIELD DENSITY TESTS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 ON THE AREAS PREPARED TO RECEIVE FILL AND ON EACH LAYER OF COMPACTED FILL.
18. A MINIMUM OF ONE MOISTURE-DENSITY TEST SHALL BE PERFORMED FOR EACH TYPE OF FILL MATERIAL, AND EACH TYPE OF EXISTING SUBGRADE MATERIAL. ONE ATTERBERG LIMITS TEST AND ONE GRADATION ANALYSIS IS REQUIRED FOR EVERY SIX FIELD DENSITY TESTS. FIELD DENSITY TESTS SHALL BE PERFORMED AS FOLLOWS: A MINIMUM OF ONE TEST PER LIFT PER 250 SQUARE FEET.
19. UPON COMPLETION OF ALL EXCAVATION OF UNSUITABLE MATERIAL, AND FOR ALL FOOTINGS, THE GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBGRADE AND EXCAVATIONS. UPON COMPLETION OF THE INSPECTION, THE GEOTECHNICAL ENGINEER SHALL PROVIDE WRITTEN NOTIFICATION TO THE OWNER.
20. FOLLOWING VISUAL INSPECTION, CONTRACTOR SHALL DEMONSTRATE TO THE GEOTECHNICAL ENGINEER THAT THE EXPOSED SUBGRADE DOES NOT CONTAIN PREVIOUSLY UNIDENTIFIED SOFT AREAS BY PROOF ROLLING. PROOF ROLLING SHALL CONSIST OF ROLLING THE ENTIRE SURFACE WITH APPROVED MECHANICAL EQUIPMENT WHILE OBSERVING THE SUBGRADE FOR DISPLACEMENT OR DEFORMATION.

NOTES CONCERNING KARST:

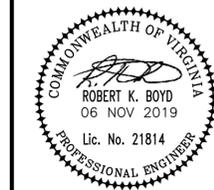
1. NO EVIDENCE OF KARST ACTIVITY WAS OBSERVED BY HURT & PROFFIT, INC. FIELD CREW IN OR AROUND THE PROPOSED CONSTRUCTION AREA. THE PROPOSED STAIRS AND RAMP ARE PARTIALLY WITHIN THE FOOTPRINT OF THE EXISTING BUILDING FEATURES.

HURT & PROFFITT
 1861 PRATT DRIVE, SUITE 1100
 BLACKSBURG VA 24060
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NOTES SHEET
 NEW ACCESSIBLE ROUTE
 BOYCE ELEMENTARY SCHOOL
 CLARKE COUNTY, VA

PROJECT NO.	20190897
LAT.	39.095542
LONG.	-78.065138
DATE:	06 NOV 2019
DRAWN BY:	KJH
CHECKED BY:	MTC



NOTES SHEET

SHEET NO.
C002

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- Notes:**
1. This Topographic Survey Was Completed Under The Direct And Responsible Charge Of, Neil Martin Of Hurt & Proffitt, Inc. From An Actual Ground Survey Made Under My Supervision; That The Imagery And/Or Original Data Was Obtained On August, 2019; And That This Plat, Map, Or Digital Geospatial Data Including Metadata Meets Minimum Accuracy Standards Unless Otherwise Noted.
 2. This Topographic Survey Is On Horizontal Datum NAD 83; Vertical Datum NAVD 88.
 3. Boundary Information Shown Hereon Was Compiled From Deeds And Plats Of Record And Field Information. This Does Not Represent A Boundary Survey.
 4. This Topographic Survey Was Prepared From A Field Survey Conducted By Hurt & Proffitt, Inc. And Only Reflects Field Conditions At That Time.
 5. Underground Utilities Shown Hereon Are Compiled From Above Ground Utility Evidence And Miss Utility Designations Only. Contractor Is Responsible For Utility Location In The Field And Must Contact Miss Utility Before Construction.
 6. Finish Floor Elevations Shown Hereon Are Taken On Lowest Floor Of Dwelling, Unless Noted Hereon.
 7. Contour Interval = 1'

HURT & PROFFITT

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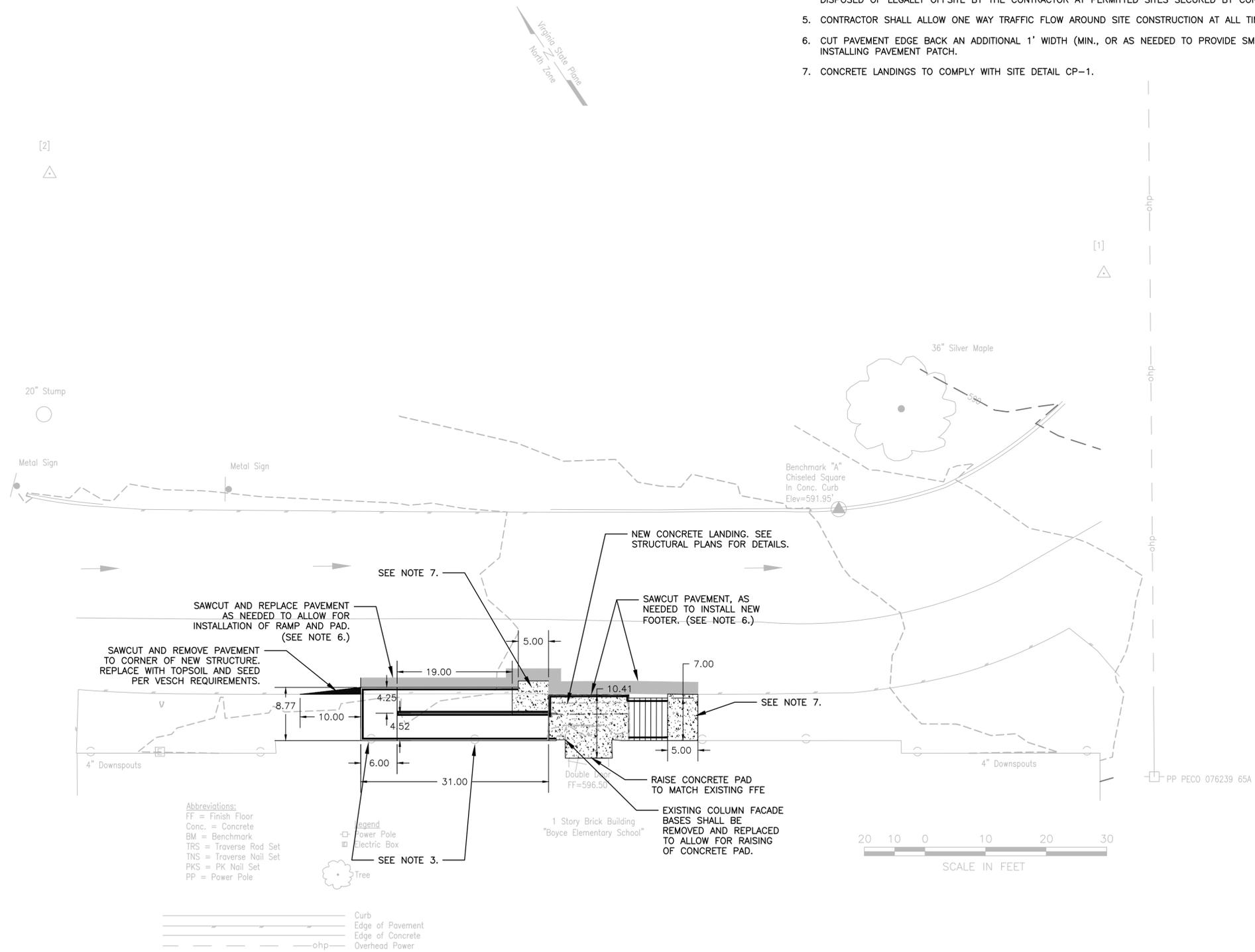
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EXISTING CONDITIONS
 TOPOGRAPHIC SURVEY OF
BOYCE ELEMENTARY SCHOOL

PROJECT NO.	20190897001
LAT.	39.090897
LONG.	-78.065138
DATE:	06 NOV 2019
DRAWN BY:	ALK
CHECKED BY:	NAM



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Abbreviations:
 FF = Finish Floor
 Conc. = Concrete
 BM = Benchmark
 TRS = Traverse Rod Set
 TNS = Traverse Nail Set
 PKS = PK Nail Set
 PP = Power Pole

Legend
 □ Power Pole
 □ Electric Box
 ○ Tree

— Curb
 — Edge of Pavement
 — Edge of Concrete
 -ohp- Overhead Power



SITE LAYOUT NOTES:

1. SEE SHEET C001 FOR GENERAL PROJECT NOTES AND LEGEND.
2. SEE SHEET S1 FOR STRUCTURAL PLANS AND DETAILS.
3. CAST IRON ROOF DRAINS SHALL EXTEND THROUGH NEW RAMP STRUCTURE. HANDRAIL SHALL BE INSTALLED 6" OFF BUILDING FACE.
4. EXISTING HANDRAILS, OTHER SITE DEMOLITION ITEMS, AND ANY EXCESS OR UNSUITABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF LEGALLY OFFSITE BY THE CONTRACTOR AT PERMITTED SITES SECURED BY CONTRACTOR.
5. CONTRACTOR SHALL ALLOW ONE WAY TRAFFIC FLOW AROUND SITE CONSTRUCTION AT ALL TIMES.
6. CUT PAVEMENT EDGE BACK AN ADDITIONAL 1' WIDTH (MIN., OR AS NEEDED TO PROVIDE SMOOTH EDGE) PRIOR TO INSTALLING PAVEMENT PATCH.
7. CONCRETE LANDINGS TO COMPLY WITH SITE DETAIL CP-1.

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SITE PLAN
NEW ACCESSIBLE ROUTE
BOYCE ELEMENTARY SCHOOL
 CLARKE COUNTY, VA

PROJECT NO.	20190897
LAT.	39.095542
LONG.	-78.065138
DATE:	06 NOV 2019
DRAWN BY:	KJH
CHECKED BY:	MTC

COMMONWEALTH OF VIRGINIA
 ROBERT K. BOYD
 06 NOV 2019
 Lic. No. 21814
 PROFESSIONAL ENGINEER

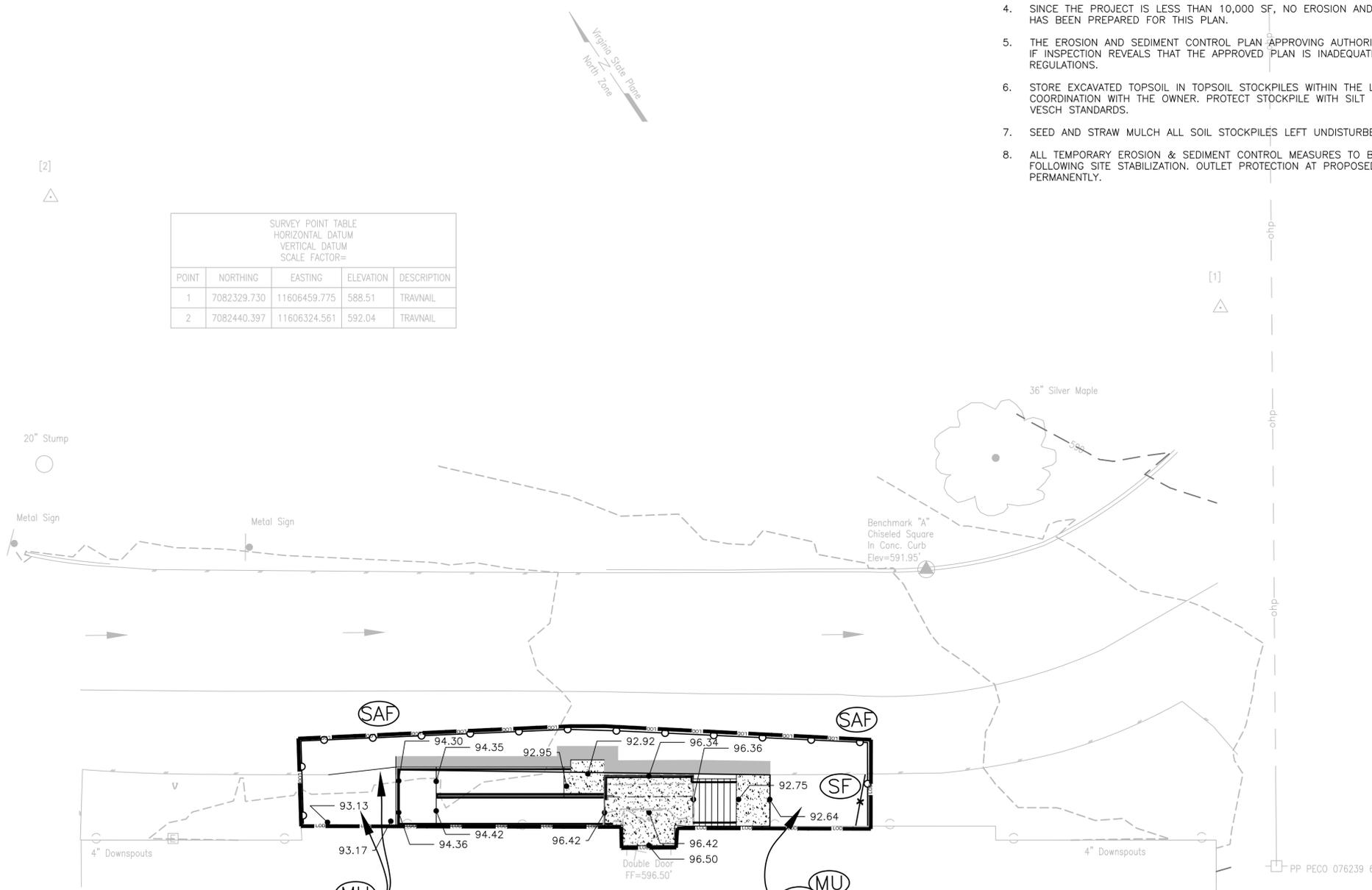
SITE PLAN
SHEET NO.
C200

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EROSION & SEDIMENT CONTROL NOTES:

1. SEE SHEET C002 FOR GENERAL PROJECT NOTES AND SHEET C001 LEGEND.
2. SEE SHEET C400 FOR ADDITIONAL NOTES AND EROSION AND SEDIMENT CONTROL DETAILS.
3. CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES FOR PROPER INSTALLATION AND DEFICIENCIES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY WHEN NO RAINFALL EVENT OCCURS.
4. SINCE THE PROJECT IS LESS THAN 10,000 SF, NO EROSION AND SEDIMENT CONTROL NARRATIVE HAS BEEN PREPARED FOR THIS PLAN.
5. THE EROSION AND SEDIMENT CONTROL PLAN APPROVING AUTHORITY OR DEQ MAY CHANGE THE PLAN IF INSPECTION REVEALS THAT THE APPROVED PLAN IS INADEQUATE TO SATISFY APPLICABLE REGULATIONS.
6. STORE EXCAVATED TOPSOIL IN TOPSOIL STOCKPILES WITHIN THE LIMITS OF DISTURBANCE, IN COORDINATION WITH THE OWNER. PROTECT STOCKPILE WITH SILT FENCE IN ACCORDANCE WITH VESCH STANDARDS.
7. SEED AND STRAW MULCH ALL SOIL STOCKPILES LEFT UNDISTURBED MORE THAN 7 DAYS.
8. ALL TEMPORARY EROSION & SEDIMENT CONTROL MEASURES TO BE REMOVED WITHIN 30 DAYS FOLLOWING SITE STABILIZATION. OUTLET PROTECTION AT PROPOSED STORM PIPE OUTLET TO REMAIN PERMANENTLY.

SURVEY POINT TABLE				
HORIZONTAL DATUM				
VERTICAL DATUM				
SCALE FACTOR=				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	7082329.730	11606459.775	588.51	TRAVNAIL
2	7082440.397	11606324.561	592.04	TRAVNAIL



CONSTRUCTION SEQUENCING:

1. INSTALL TEMPORARY CHAIN LINK SAFETY FENCE TO DELINEATE LIMITS OF DISTURBANCE. COORDINATE LOCATION WITH OWNER.
2. INSTALL SILT FENCE.
3. INSTALL NEW STAIRS AND RAMP.
4. RESEED AS NECESSARY AND ESTABLISH VEGETATION.
5. REMOVE ALL TEMPORARY ESC MEASURES WHEN SITE IS STABILIZED.

PROPOSED ESC MEASURES LEGEND

- SAFETY FENCE VESCH STD. & SPEC. 3.01
- SILT FENCE (WITHOUT WIRE REINFORCEMENT) VESCH STD. & SPEC. 3.05
- TOPSOILING VESCH STD AND SPEC 3.30
- PERMANENT SEEDING VESCH STD. & SPEC. 3.32
- MULCHING VESCH STD. & SPEC. 3.35
- LIMITS OF DISTURBANCE

- Abbreviations:**
 FF = Finish Floor
 Conc. = Concrete
 BM = Benchmark
 TRS = Traverse Rod Set
 TNS = Traverse Nail Set
 PKS = PK Nail Set
 PP = Power Pole
- Legend:**
 Power Pole
 Electric Box
 Tree
 Curb
 Edge of Pavement
 Edge of Concrete
 Overhead Power



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**GRADING AND ESC PLAN
 NEW ACCESSIBLE ROUTE
 BOYCE ELEMENTARY SCHOOL
 CLARKE COUNTY, VA**

PROJECT NO.	20190897
LAT.	39.095542
LONG.	-78.065138
DATE:	06 NOV 2019
DRAWN BY:	KJH
CHECKED BY:	MTC

COMMONWEALTH OF VIRGINIA

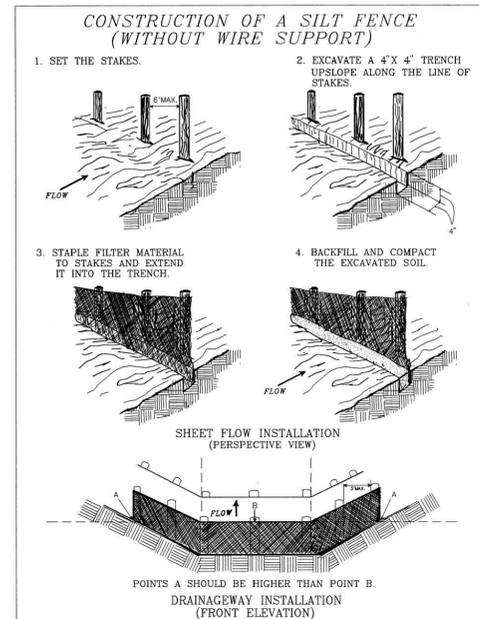
 ROBERT K. BOYD
 06 NOV 2019
 Lic. No. 21814
 PROFESSIONAL ENGINEER

**GRADING AND
 ESC PLAN**

SHEET NO.
C300

Nov. 11, 2019 - 6:14pm \\data01\projects\2019\20190897\engineering\CAD\20190897_Sheet_Details.dwg

1992 3.05



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 3.05-2

III - 25

1992 3.32

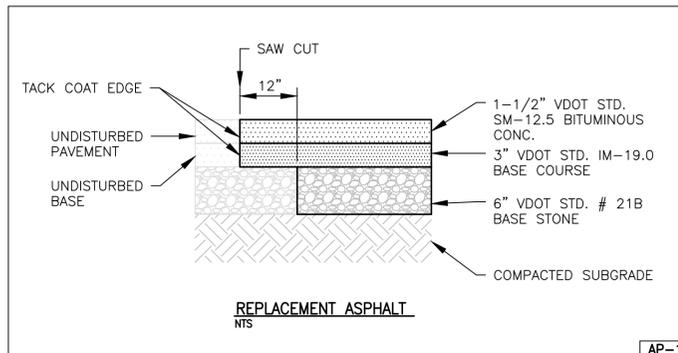
TABLE 3.32-C SITE SPECIFIC SEEDING MIXTURES FOR APPALACHIAN/MOUNTAIN AREA	
Minimum Care Lawn	Total Lbs. Per Acre
- Commercial or Residential	200-250 lbs.
- Kentucky 31 or Turf-Type Tall Fescue	90-100%
- Improved Perennial Ryegrass *	0-10%
- Kentucky Bluegrass	0-10%
High-Maintenance Lawn	
Minimum of three (3) up to five (5) varieties of bluegrass from approved list for use in Virginia.	125 lbs.
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
	150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Fescue	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
- Crownvetch ***	20 lbs.
	150 lbs.

* Perennial Ryegrass will germinate faster and at lower soil temperatures than fescue, thereby providing cover and erosion resistance for seedbed.

** Use seasonal nurse crop in accordance with seeding dates as stated below:
 March, April through May 15th Annual Rye
 May 16th through August 15th Foxtail Millet
 August 16th through September, October Annual Rye
 November through February Winter Rye

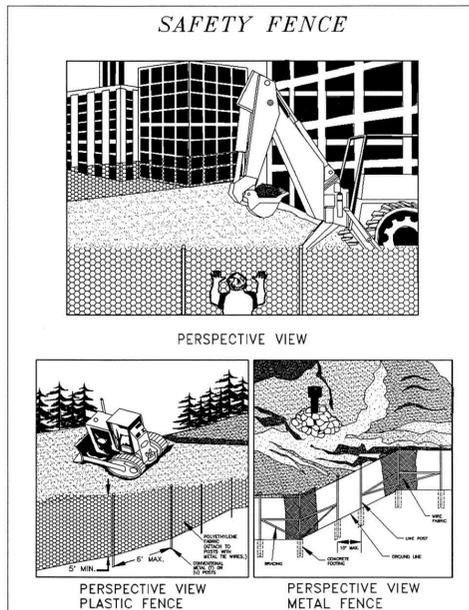
*** If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may also be included in any slope or low-maintenance mixture during warmer seeding periods; add 10-20 lbs/acre in mixes.

III - 302



AP-1

1992 3.01

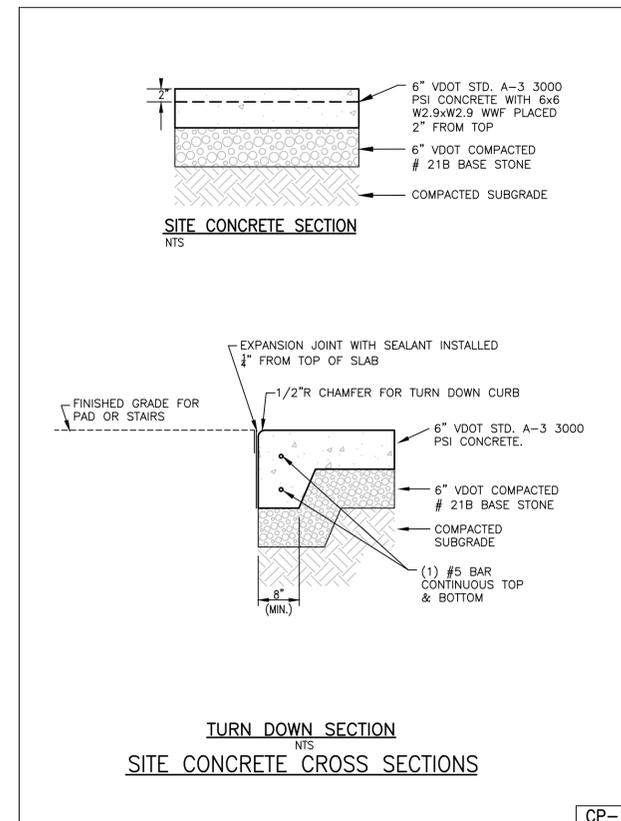


Source: Adapted from Conwed Plastics and VDOT Road and Bridge Standards Plate 3.01-1

III - 5

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- ES-1 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION (VESCH), AND VIRGINIA REGULATIONS 9VAC25-840 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2 THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION. THE NAME OF THE CERTIFIED RLD, INCLUDING THEIR CERTIFICATION NUMBER AND CONTACT INFORMATION MUST BE PROVIDED TO THE PLAN APPROVING AUTHORITY AT LEAST 15 DAYS PRIOR TO ACTUAL ENGAGEMENT IN LAND DISTURBING ACTIVITY.
- ES-3 ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND THE VESCH SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5 PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE PLAN APPROVING AUTHORITY FOR REVIEW AND APPROVAL, OR SUBMIT DOCUMENTATION THAT THE OTHER AREA IS CURRENTLY COVERED UNDER A SEPARATE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- ES-6 THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7 ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT TRAPPING MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED, AFTER WHICH, UPON APPROVAL OF THE PLAN APPROVING AUTHORITY, THE CONTROLS SHALL BE REMOVED. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED.
- ES-8 DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9 THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST WEEKLY AND IMMEDIATELY AFTER EACH RUNOFF PRODUCING STORM EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ES-10 THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO PAVED OR PUBLIC ROADS. AT A MINIMUM, TRACKING SHALL BE CLEANED BY THE END OF EACH WORK DAY.
- ES-11 TEMPORARY/PERMANENT STABILIZATION OPERATIONS SHALL BE INITIATED WITHIN 7 DAYS AFTER REACHING FINAL GRADE OR UPON SUSPENSION OF GRADING OPERATIONS FOR ANTICIPATED DURATION OF GREATER THAN 14 DAYS OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIC AREA.
- ES-12 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS.



CP-1

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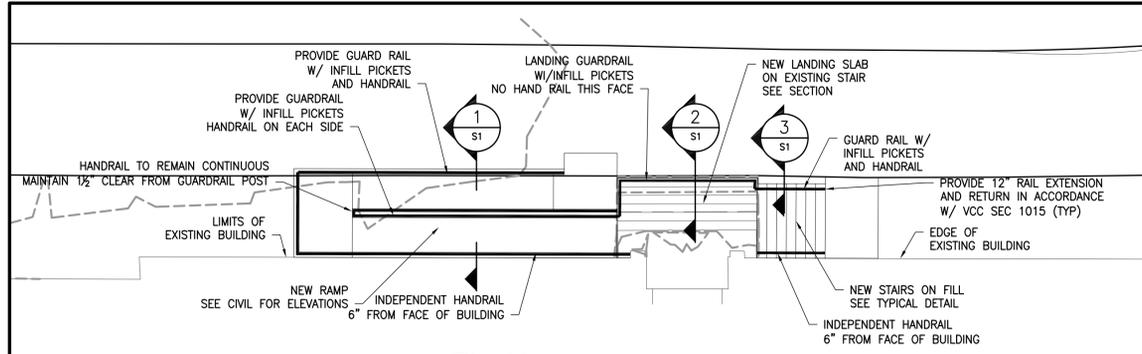
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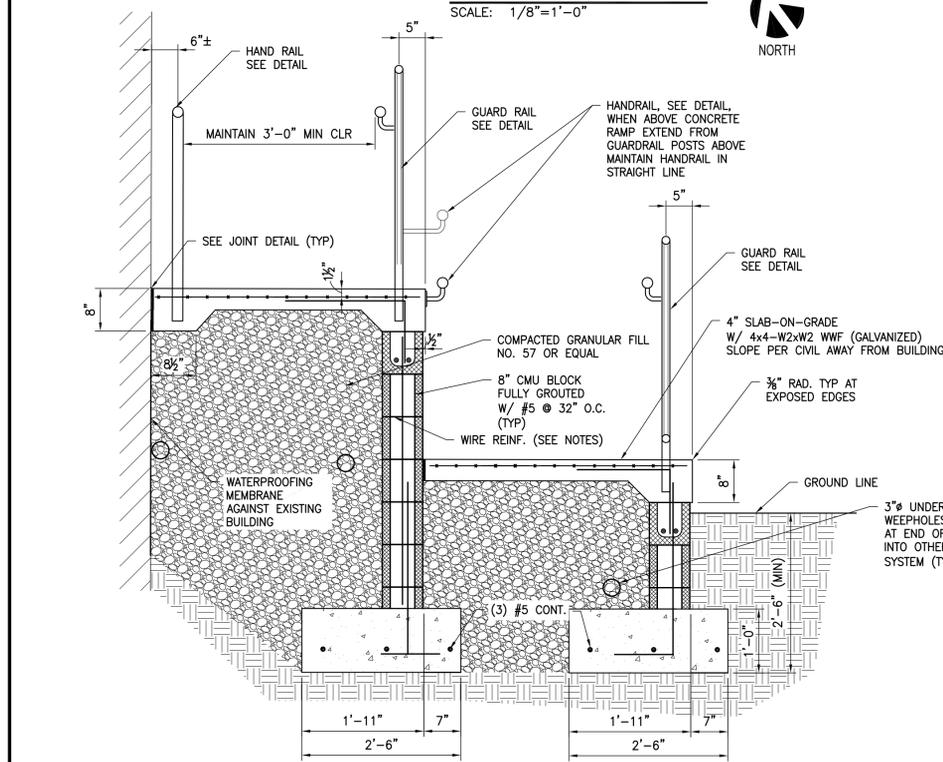
DETAILS AND ESC NOTES

SHEET NO.
C400



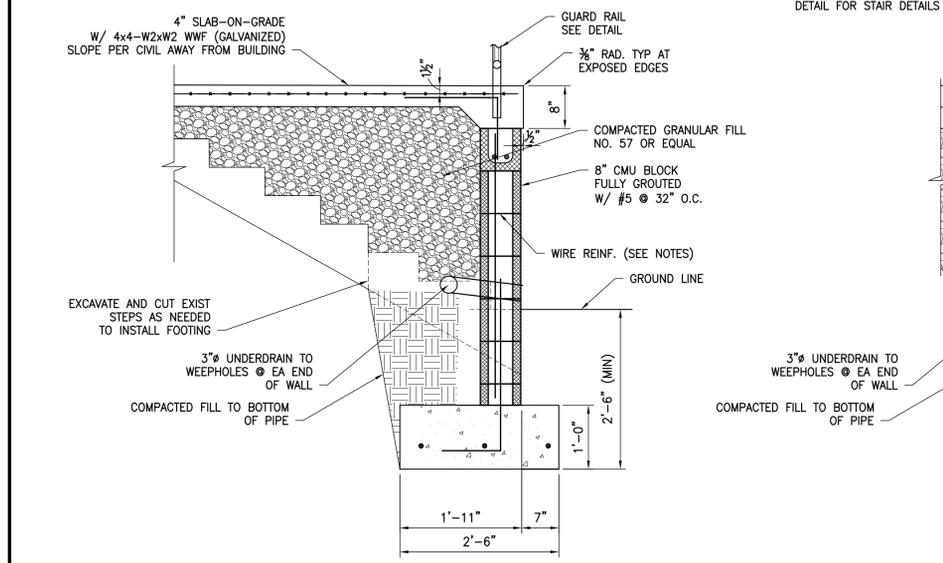
PLAN

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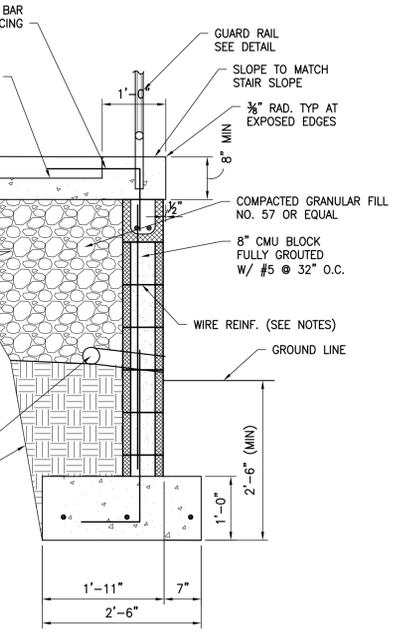
SECTION 1

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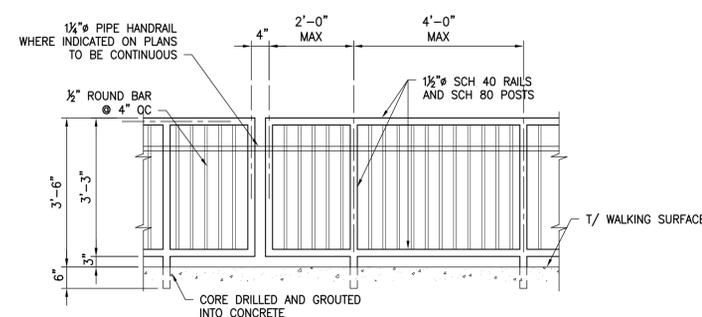
SECTION 2

SCALE: 3/4"=1'-0"



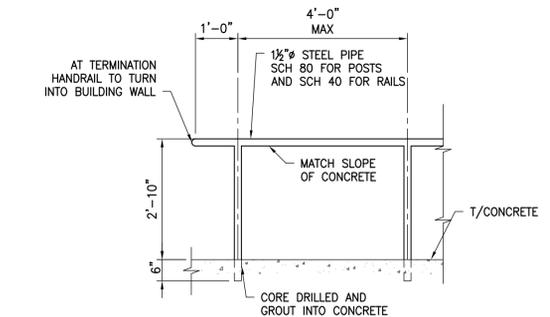
SECTION 3

SCALE: 3/4"=1'-0"



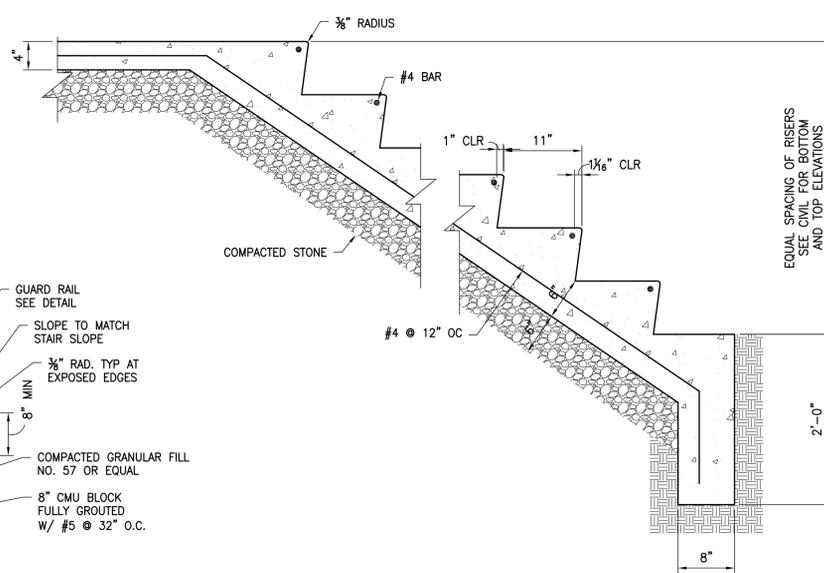
TYPICAL GUARDRAIL W/ INFILL

SCALE: 1/2"=1'-0"



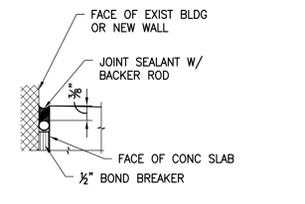
TYPICAL HANDRAIL

SCALE: 1/2"=1'-0"



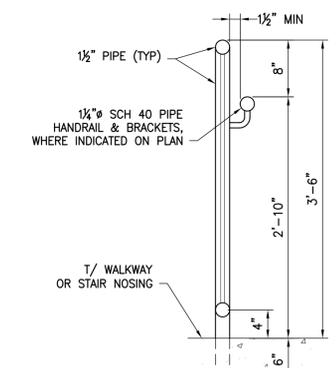
TYPICAL CONCRETE STAIR

SCALE: NTS



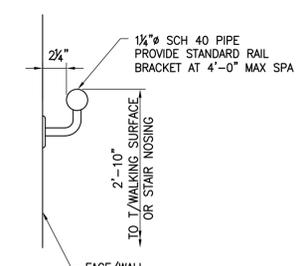
TYPICAL JOINT DETAIL

SCALE: NTS



GUARDRAIL SECTION

SCALE: NTS



HANDRAIL ON WALL DETAIL

SCALE: NTS

STRUCTURAL NOTES

- GENERAL REQUIREMENTS**
 - 1.1. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATION OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.
 - 1.2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- APPLICABLE CODES AND STANDARDS**
 - 2.1. "VIRGINIA UNIFORM STATEWIDE BUILDING CODE" (IBC 2012).
 - 2.2. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- DESIGN LOADS**
 - 3.1. LIVE LOAD ASSEMBLY 100 PSF
- SOIL BEARING CAPACITY**
 - 4.1. THE DESIGN ASSUMED SOIL BEARING CAPACITY IS 2,000 PSF AND SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
 - 4.2. ENGINEERED FILL SHALL BE AN APPROVED MATERIAL PLACED IN HORIZONTAL LAYERS WITH A MAXIMUM LOOSE THICKNESS OF 8". EACH LAYER SHALL BE COMPACTED TO A DRY MINIMUM DRY DENSITY OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR METHOD). FULL-TIME DENSITY TESTS SHALL BE PERFORMED TO VERIFY COMPACTION REQUIREMENTS ARE MET.
- MATERIALS**
 - 5.1. CONCRETE ALL CONCRETE SHALL MEET THE REQUIREMENTS OF VDOT ROAD AND BRIDGE SPECIFICATIONS, CLASS A3 (28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI).
 - 5.2. REINFORCING STEEL

REINFORCING BARS	ASTM A615, GRADE 60
WELDED WIRE FABRIC	ASTM A185

DEVELOPMENT LENGTH	STRAIGHT	WITH HOOK	LAP SPLICE
BAR SIZE			
#4	22"	6"	29"
#5	28"	8"	37"
 - 5.3. JOINT SEALANT JOINT SEALANT SHALL BE SIKASIL WS-290, OR APPROVED EQUAL, INSTALLED ON A CLEAN SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN DIRECTION. THE BACKER ROD USED SHALL BE COMPATIBLE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE SEMI-COMPRESSIBLE.
 - 5.4. MASONRY

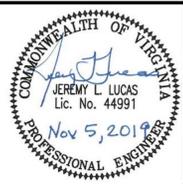
CONCRETE MASONRY UNIT	f'm=1,500 PSI
MORTAR (TYPE S OR M)	f'm=1,900 PSI
GROUT	f'm=2,000 PSI

PROVIDE STANDARD TRUSS DUR-O-WALL AT 16" VERTICALLY IN MASONRY WALLS.

PROVIDE CONTINUOUS BOND BEAM W/ (2) #4 BARS AT TOP OF EACH WALL.

PROVIDE VERTICAL DOWEL BAR W/ BENT LEG OUT OF FOOTING TO MATCH SIZE AND SPACING OF WALL REINFORCEMENT.

REVISIONS:



MASTER ENGINEERS & DESIGNERS
 904 Lakeside Drive, Lynchburg, VA 24501
 434-846-1350 Fax: 434-846-1351

BOYCE ELEMENTARY ADA ACCESS IMPROVEMENTS
 BOYCE, VIRGINIA

STRUCTURAL DETAILS AND NOTES

DATE ISSUED: 11/06/19
 SCALE: AS NOTED
 JOB. NO. 409-094
 DESIGNED: JLL
 DRAWN: JLL
 CHECKED: JLL
 APPROVED: JLL

DRAWING NO. S1
 SHEET OF
 REVISION