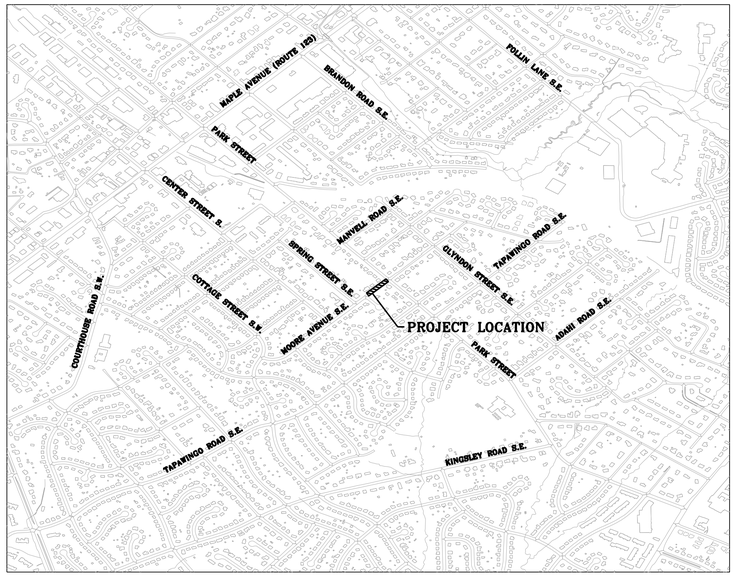
TOWN OF VIENNA
since 1890

TOWN OF VIENNA
DEPARTMENT OF PUBLIC WORKS
MOORE AVENUE SE DRAINAGE IMPROVEMENT PLAN



VICINITY MAP
SCALE: 1"=1,000'

GRADING GENERAL NOTES

1 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.

DRAINAGE GENERAL NOTES

1 When Town of Vienna Curb and Gutter (see Town's detail Sheet 2A) is specified on a radius (such as at a street intersection), the Town may approve a change in the cross slope of the gutter to facilitate proper drainage.

PAVEMENT GENERAL NOTES

1 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS GENERAL NOTES

1 Certain trees shall be preserved as noted on plans or as directed by the Town.

2 When standard slope roundoffs would damage trees, bushes, or other desirable vegetation, they shall be omitted when so ordered by the Town.

3 Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Town.

4 The following outside sources, under contract with the Town, have provided information on this project:

Roadway Design	Whitman, Requardt & Associates, LLP
Survey	Rice Associates
Utility Designation	Rice Associates

If questions arise during construction, please contact the Town. DO NOT CONTACT THE OUTSIDE SOURCES.

5 All electronic plan assemblies will include the construction plans in one format: .pdf files. Only the .pdf files will be considered as part of the official plan assembly.

UTILITIES GENERAL NOTES

1 The utility information shown on these plans is taken from information provided by an underground utility designating and locating company and in some cases, from information received from the utility companies. The Town does not guartantee that the utility information shown on the plans is complete or accurate. The Contractor must verify the utility locations prior to construction.

2 All existing underground utilities shall be marked in the field by Miss Utility prior to construction. The Contractor shall be responsible for scheduling the field marking of utilities with Miss Utility.

Miss Utility 1-800-552-7011 or 811 VA811.com

3 All existing underground utilities shall be physically located by the Contractor prior to the beginning of any construction in the vicinity of these utilities.

TOWN OF VIENNA GENERAL NOTES

1 A Pre-Construction meeting must be held prior to the start of construction. The Contractor shall contact the Town to schedule the Pre-Construction meeting.

2 All construction generated debris must be hauled away by the Contractor.

3 Prior to the removal of any Town trees (trees within the Right of Way), the Contractor shall contact the Town arborist to coordinate having the Town arborist onside during all Town tree removal.

4 Tree protection for any Town tree, if shown on the plan, must be installed prior to any work.

5 Clearing, grubbing, tree removal, root pruning and tree protection shall be in accordance with VDOT Road and Bridge Specifications and the Town's PFM and Tree Preservation and Planting Guide and the Virginia Erosion and Sediment Control Handbook. The Contractor shall coordinate with the Town and property owners as directed by the Town prior to commencing any of these activities.

100% DESIGN CONSTRUCTION DRAWINGS

SHEET INDEX

SHEET NO.	TITLE
1	COVER SHEET
1A	SURVEY DATA
2	TYPICAL SECTIONS
2A(1) - 2A(2)	TYPICAL DETAILS
2B	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE PLAN
3A	PAVEMENT IMPROVEMENT PLAN
3B	EROSION AND SEDIMENT PLAN
4	EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

WRA
Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

COVER SHEET

SCALE:1" =1000'		
DATE: 01/2024	SHEET 1 OF 4	
DES: TL	DRAWN: JZ	CHECK: KO

GENERAL NOTES:

1. PROPERTY LINES SHOWN ON THIS SURVEY ARE A COMPILATION OF DEEDS AND PLATS OF RECORD, SURVEYS BY OTHERS, AND LIMITED MONUMENT TIES. LINES SHOWN HEREOEN ARE NOT THE RESULT OF A FIELD RUN BOUNDRY SURVEY.

2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. NOT ALL EASEMENTS AND/OR ENCUMBRANCES ARE NECESSARILY SHOWN HEREON.

3. THIS SURVEY WAS PREPARED FOR:
WHITMAN, RAGUARDT, & ASSOCIATES, LLP
12700 FAIR LAKES & CIRCLE, SUITE 300
FAIRFAX, VA 22033

4. THIS SURVEY WAS PREPARED BY:
RICE ASSOCIATES
3145 VIRGINIA BEACH BLVD., SUITE 103
VIRGINIA BEACH, VIRGINIA 23452

5. THE HORIZONTAL DATUM IS VIRGINIA COORDINATE SYSTEM 83 (NORTH ZONE), AND THE VERTICAL DATUM IS NAVD88, BOTH ESTABLISHED BY GPS OBSERVATIONS.

6. THE CONTOUR INTERVAL IS TWO (2) FEET.

7. THE HORIZONTAL AND VERTICAL UNIT OF MEASUREMENT IS THE U.S. SURVEY FOOT.

8. THIS SURVEY FOR A PORTION OF MOORE AVE. S.E. WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF WILLIAM G. LIPPY JR. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; DATA WAS OBTAINED ON NOVEMBER 4, 2022, THROUGH NOVEMBER 8, 2022; THIS SURVEY DATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

GENERAL UTILITY NOTES:

1. ALL UTILITIES SHOWN HEREON WERE DESIGNATED ACCORDING TO ASCE 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

2. ALL UTILITY SHOWN HEROENARE DEPICTED AS QUALITY LVEL "B" UNLESS OTHERWISE NOTED.

3. UTILITY DESIGNATED WITH A "DATUM" (DEPICTED ACCORDING TO UTILITY RECORDS) ARE QUALITY LEVEL "D". THESE UTILITIES ARE DEPICTED USING SOUND PROFESSIONAL JUDGEMENT INTERPERTING AVAILABLE THIRD-PARTY AND/OR ORAL HISTOIES.

4. IF AVAILABLE, UTILITY SIZE AND TYPE FOR QUALITY LEVEL "B" DEPICTIONS ARE DETERMINED THROUGH AVAILABLE UTILITY OWNER INFORMATION. UTILITY LABELED AS UNKNOWN HAVE NO CORRELATED RECORDS OR VISILBLE APPURTENANCES TO DETERMINE FUNTIONS OR TYPE.

5. RELIANCE UPON THIS DATA FOR RISK MANAGMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURE DURING EXCAVATION

6. IT IS IMPORTATANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

7. UTILITY MAPPING WAS COMPLETED ON 11/11/22 UTILITY MAY HAVE BEEN CHANGED OR BEEN ADDED AFTER THIS DATE. ALL UTILITIES SHOWN HEREON WERE DESIGNATED UNDER THE DIRECT SUPERVISION OF TIMOTHY PAYNE, LS #003090

Storm Sewer Table

EX. 01 — EX. STM STR-01
POINT #80076/80096
MSMD #N/A
Inv. In 15" RCP = 422.24'
Inv. Out 15" RCP = 421.61'

EX. 02 — EX. STM STR-02
POINT #80111/80156
MSMD #N/A
Inv. In 15" RCP = 416.14'
Inv. Out 15" RCP = 415.23'

EX. 03 — EX. STM STR-03
POINT #80209
MSMD #N/A
Inv. In 12"-15" RCP = 413.53'
Mostly Buried
Inv. Out Not Found
(Completely Buried)

EX. 04 — EX. STM STR-04
POINT #80006
MSMD #N/A
Top = 424.46'
Inv. In 15" RCP from S.E. = 418.91'
Inv. Out 15" RCP to EX.05 = 418.88'

EX. 05 — EX. STM STR-05
POINT #80031
MSMD #N/A
Top = 415.61'
Inv. In 15" RCP from EX.04 = 411.29'
Inv. In 15" RCP from EX.06 = 411.17'
Inv. Out 15" RCP to N.E. = 410.51'

EX. 06 — EX. STM STR-06
POINT #80180
MSMD #N/A
Top = 414.90'
Inv. Out 15" RCP to EX.05 = 412.16'

UTILITY LEGEND

EB	Electric Box	TB	Telephone Booth
	Electric Guy Pole		Telephone Guy Pole
	Electric Ground Light		Telephone Guy Wire
	Electric Guy Wire		Test Holes (All Utilities)
E	Electric Hand Hole		Telephone Cell Tower
	Electric Meter	T	Telephone Hand Hole
E	Electric Manhole	T	Telephone Manhole
	Electric Marker Post		Telephone Marker Post
E	Electric Pedestal		Telephone Pole
	Electric Stub	T	Telephone Pedestal
	Electric Power Pole		Telephone Riser Pole
	Electric Power Riser Pole		Television Satellite Dish
	Electric Light Pole		Tower Anchor
	Electric Luminaire		Traffic Camera Pole
	End of Information (All Utilities)	TH	Traffic Control Hand Hole
	Fire Hydrant	TC	Traffic Control Manhole
F	Fiber Optic Hand Hole		Traffic Control Guy Wire
	Fiber Optic Marker	TC	Traffic Control Pedestal
FO	Fiber Optic Manhole		Traffic Signal Guy Pole
FO	Fiber Optic Pedestal		Traffic Signal Pole
	Gas Meter		Traffic Signal Pole w/Luminaire
G	Gas Manhole		Telephone Stub
	Gas Marker Post	TV	Television Hand Hole
MW	Gas Monitoring Well	TV	Television Manhole
	Gas Stub		Television Marker Post
	Gas Test Station	TV	Television Pedestal
	Gas Valve		Television Stub
	Gas Vent		Water Blow Off
	Gas Well	W	Water Well
	Sanitary Air Release Valve		Water Meter
	Sanitary Flow Arrow	WM	Water Manhole
	Sanitary Stub		Water Marker Post
	Sewer Clean Out		Water Spigot
	Sanitary Force Main Valve		Water Stamese Connection
	Sanitary Marker Post		Water Stub
S	Sanitary Manhole		Water Valve
	Sewer Vent Pipe		Water Post Inspection Valve
	Unknown Clean Out		Water Irrigation Valve
U	Unknown Hand Hole	ST	Water Steam Manhole
UK	Unknown Manhole		Water Steam Vent Pipe

- CAFO — Fiber Optic Cable Television
- CHEM — Chemical Line (above or below ground)
- FO Duct — Underground Fiber Optic Duct
- FUEL — Fuel Line (above or below ground)
- G — Gas Line *
- G Duct — Gas Line Duct
- SAN — Gravity Sewer *
- SFM — Sanitary Force Main *
- TCFO — Traffic Control Fiber Optic
- T/FO — Telephone Fiber Optic
- FO — Underground Fiber Optic
- Unk — Unknown Utility Line
- E — Underground Power Cable
- E Duct — Underground Power Cable Duct
- T/Tg — Underground Telephone Cable
- T/Tg Duct — Underground Telephone Cable Duct
- TC — Underground Traffic Control
- TC Duct — Underground Traffic Control Duct
- CATV — Underground Television Cable
- CATV Duct — Underground Television Cable Duct
- VS — Vacuum Sewer
- W — Water Line *
- W Duct — Water Line Duct
- Unk — Depicted According To Utility Records **
- Unk — Abandoned According To Utility Records **
- Unk — According To Miss Utility Information **

* Designate size (Variable from 0.75" to 54")
** Designate type (Unknown line is shown)

Sanitary Sewer Table

EX. 068 — EX. SAN MH-068
POINT # 80002
FCWM # 038-4-068
Top = 425.13'
Inv. Out 6" DIP to EX.069 = 418.93'

EX. 069 — EX. SAN MH-069
POINT #80015
FCWM # 038-4-069
Top = 419.84'
Inv. In 6" DIP from EX.068 = 410.59'
Inv. In 8" DIP from S.W. = 410.56'
Origin Unknown
Inv. Out 8" DIP to EX.070 = 410.54'

EX. 070 — EX. SAN MH-070
POINT # 80230
FCWM # 038-4-070
Top = 417.83'
Inv. Inaccessible
(Rim is Frozen)

PLANIMETRIC LEGEND

- Advertising Sign
- Bore Hole
- BM — Bench Mark
- Bollard Post
- * PHOTO CP — Photo Control Point
- Control Station
- Drainage Flow Arrow (Storm Drainage)
- FC — Filler Cap (Gas Stations)
- Flow Arrow (Streams & Rivers)
- Flag Pole
- Secondary Control Point
- FP — Filler Pipe (Gas Stations)
- GA — Gas Tank Access Manhole (Gas Stations)
- Gravesite Marker
- Guard Post
- V — Gas Vent Pipe (Gas Stations)
- Mail Box
- Mine Entrance
- Node Point
- PL — Property Line Symbol
- Found Monumentation
- Property Monument
- Metal or Wooden Post
- Monitoring Well
- Road Arrow
- Reference
- Right of Way Monument
- VDOT Commission Monument
- Iron Right of Way Pin
- Railroad Mile Marker
- Railroad Right of Way Monument
- Railroad Signal Pole or Gate
- Railroad Telegraph Pole
- Railroad Telephone Pole
- Railroad Switch
- Shrub
- D — Storm Sewer Manhole
- Photogrammetric Target
- Tree
- Traffic Left Turn Arrow
- Traffic Left-Right Arrow
- Traffic Left-Thru Arrow
- Traffic Left-Thru-Right Arrow
- Traffic Right Turn Arrow
- Traffic Thru Arrow
- Traffic Thru-Right Arrow
- Traffic Springback Marker
- Wetland Flag Automatic
- Wetland Flag Manual
- Bridge Elevation
- Plan Elevation
- Water Elevation
- Elevation Tick Mark
- Z — Connected Plat Symbol
- Brush Line
- Pipe Culverts *
- City Line
- County Line
- Curb Only
- Curb and Gutter
- Fence Line
- Guardrail
- Hedge Row
- Jersey Barrier
- OBSC — Obscure Areas
- Paved Ditches
- Railroad
- Right of Way
- State Line
- Edges of Water
- Sidewalks
- WL — Wetlands
- Woods

* Designate size of culverts (Variable from 12" to 120")

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

WRA
Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

SURVEY DATA

SCALE: N/A		
DATE: 01/2024	SHEET 1A OF 4	
DES: TL	DRAWN: CHC	CHECK: KO

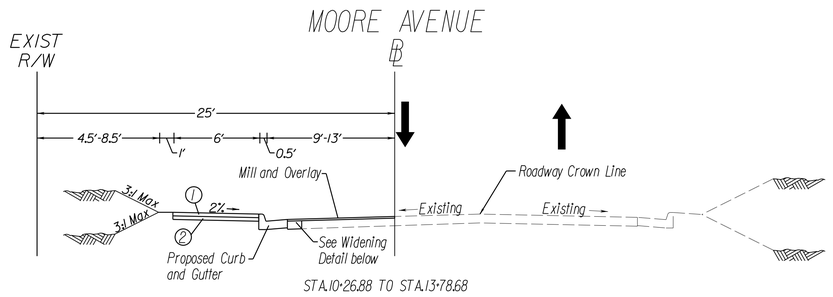
TYPICAL SECTIONS

NOT TO SCALE

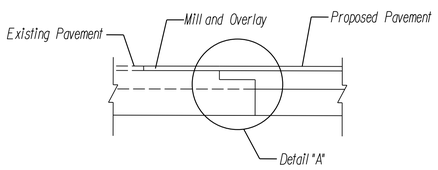
SIDEWALK SECTION

① 4" HYDRAULIC CEMENT CONCRETE CLASS A3 SIDEWALK REQ'D

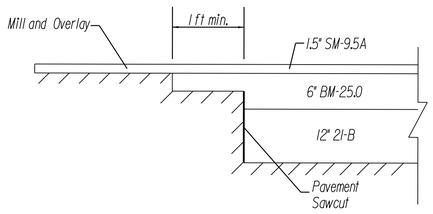
② 4" AGGREGATE BASE MATERIAL SIZE 21B



TYPICAL PAVEMENT WIDENING DETAIL



DETAIL "A"



PRIVATE ENTRANCE TYPE

NOT TO SCALE

TYPE III
Asphalt

Asphalt Conc. Type
SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

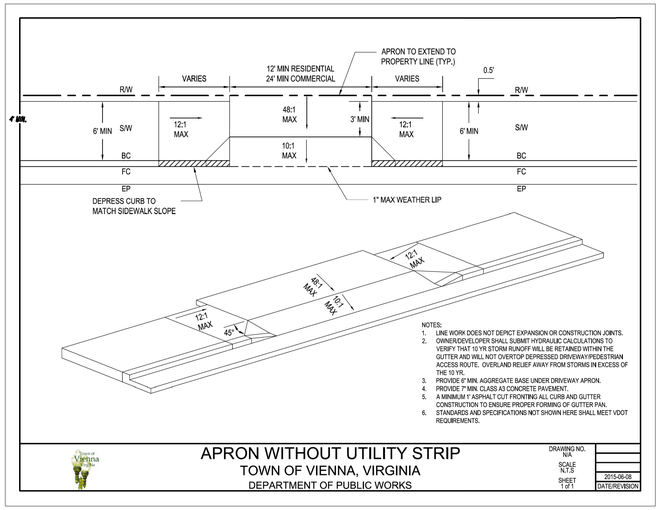
Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

TYPICAL SECTIONS

SCALE: N/A		
DATE: 01/2024	SHEET 2 OF 4	
DES: TL	DRAWN: JZ	CHECK: KO

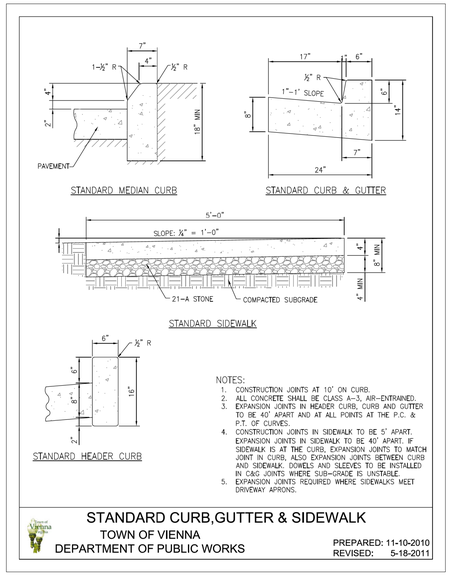
TYPICAL DETAILS

NOT TO SCALE



APRON WITHOUT UTILITY STRIP
TOWN OF VIENNA, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

DRAWING NO. N/A
SCALE N.T.S
SHEET 1 of 1
2015-06-08
DATE/REVISION

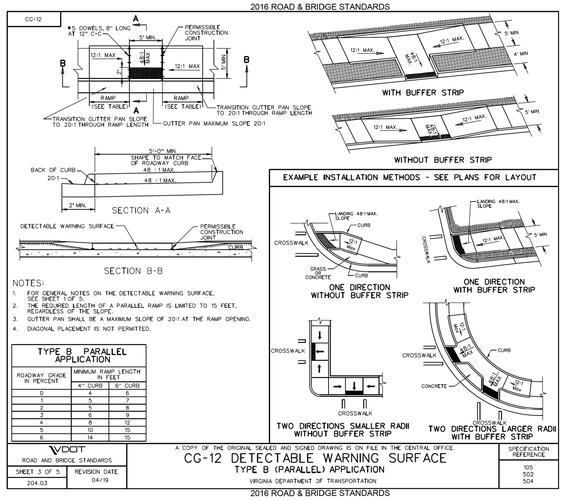


STANDARD CURB,GUTTER & SIDEWALK
TOWN OF VIENNA
DEPARTMENT OF PUBLIC WORKS

PREPARED: 11-10-2010
REVISED: 5-18-2011

2016 ROAD & BRIDGE STANDARDS

CG-12



WITH BUFFER STRIP

WITHOUT BUFFER STRIP

EXAMPLE INSTALLATION METHODS - SEE PLANS FOR LAYOUT

TYPE B PARALLEL APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 3 OF 5
204.03
REVISION DATE
04/19

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

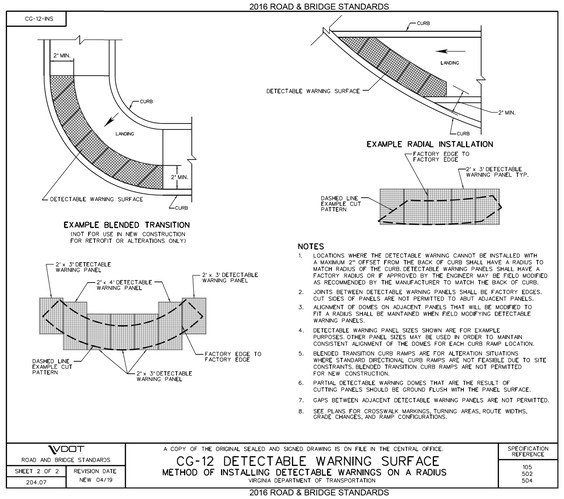
CG-12 DETECTABLE WARNING SURFACE
TYPE B (PARALLEL) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
105
502
504

2016 ROAD & BRIDGE STANDARDS

2016 ROAD & BRIDGE STANDARDS

CG-12-INS



NOTES
1. LOCATIONS WHERE THE DETECTABLE WARNING CANNOT BE INSTALLED WITH A MAXIMUM 2" OFFSET FROM THE BACK OF CURB SHALL HAVE A RADIUS TO MATCH RADIUS OF THE CURB. DETECTABLE WARNING PANELS SHALL HAVE A FACTORY RADIUS OR IF APPROVED BY THE ENGINEER MAY BE FIELD MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB.
2. JOINTS BETWEEN DETECTABLE WARNING PANELS SHALL BE FACTORY EDGES. CUT SIDES OF PANELS ARE NOT PERMITTED TO ABUT ADJACENT PANELS.
3. ALIGNMENT OF DOMES ON ADJACENT PANELS THAT WILL BE MODIFIED TO FIT A RADIUS SHALL BE MAINTAINED WHEN FIELD MODIFYING DETECTABLE WARNING PANELS.
4. DETECTABLE WARNING PANEL SIZES SHOWN ARE FOR EXAMPLE PURPOSES. OTHER PANEL SIZES MAY BE USED IN ORDER TO MAINTAIN CONSISTENT ALIGNMENT OF THE DOMES FOR EACH CURB RAMP LOCATION.
5. BLENDED TRANSITION CURB RAMPS ARE FOR ALTERATION SITUATIONS WHERE STANDARD DIRECTIONAL CURB RAMPS ARE NOT FEASIBLE DUE TO SITE CONSTRAINTS. BLENDED TRANSITION CURB RAMPS ARE NOT PERMITTED FOR NEW CONSTRUCTION.
6. PARTIAL DETECTABLE WARNING DOMES THAT ARE THE RESULT OF CUTTING PANELS SHOULD BE GROUND FLUSH WITH THE PANEL SURFACE.
7. GAPS BETWEEN ADJACENT DETECTABLE WARNING PANELS ARE NOT PERMITTED.
8. SEE PLANS FOR CROSSWALK MARKINGS, TURNING AREAS, ROUTE WIDTHS, GRADE CHANGES, AND RAMP CONFIGURATIONS.

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 2 OF 2
204.07
REVISION DATE
NEW 04/19

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

CG-12 DETECTABLE WARNING SURFACE
METHOD OF INSTALLING DETECTABLE WARNINGS ON A RADIUS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
105
502
504

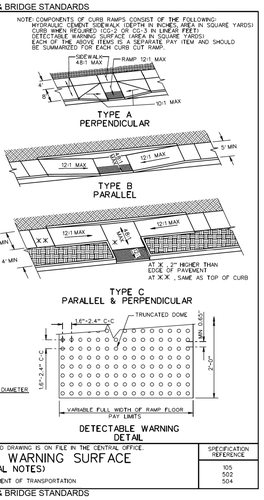
2016 ROAD & BRIDGE STANDARDS

2016 ROAD & BRIDGE STANDARDS

CG-12

GENERAL NOTES:
1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF SECTION 508 OF THE SPECIFICATIONS (CG-12). DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST NUMBER 72.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 7" CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1½".
5. ROADWAY CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
6. CURB RAMPS ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS. THE WIDTH OF THE CURB RAMP SHALL MATCH SIDEWALK WIDTH. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
7. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP LANDING FLOOR.
8. CURB RAMPS WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. CURB RAMPS SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC.
9. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE RAMP IS LOCATED ENTIRELY WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
10. DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
11. WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES AND CURB RETURNS, THE CURB RAMP DETECTABLE WARNING PANELS SHALL HAVE A FACTORY RADIUS OR BE FIELD MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-12-INS PAGES 204.06 AND 204.07 FOR METHODS OF INSTALLING DETECTABLE WARNINGS ON A RADIUS.

NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING: HYDRAULIC CEMENT SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS) CURB (WHEN REQUIRED (CG-2, OR CG-3 IN LINEAR FEET) DETECTABLE WARNING SURFACE (AREA IN SQUARE YARDS) EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.



TRUNCATED DOME DETAIL

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 1 OF 5
204.01
REVISION DATE
04/19

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

CG-12 DETECTABLE WARNING SURFACE
(GENERAL NOTES)
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
105
502
504

2016 ROAD & BRIDGE STANDARDS

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

TYPICAL DETAILS

SCALE: N/A

DATE: 01/2024 | SHEET 2A(1) OF 4

DES: TL | DRAWN: JZ | CHECK: KO

TYPICAL DETAILS

NOT TO SCALE

LEGEND

LEGEND	PAGE
A - FLAT SLAB TOP WITH FRAME AND GRATE (T-DI-1)	103.03
B - DROP INLET TOP UNIT (T-DI-2)	103.04
C - THROAT FACE BLOCK (T-DI-3,4)	103.05, 103.06
D - CURB DROP INLET THROAT SECTION (T-DI-3,4)	103.05, 103.06
E - SPACER UNIT (T-MH-2)	103.09
F - FLAT SLAB TOP WITH HOLE (T-MH-2)	103.09
G - DROP INLET TOP UNIT (T-DI-5)	103.07
I - DROP INLET TOP UNIT (T-DI-7)	103.08
J - FLAT SLAB TOP UNIT (T-MH-2)	103.09
K - MANHOLE FRAME AND COVER (T-MH-1)	106.02 THRU 106.06
L - SPACER UNIT (T-MH-2)	103.09
M - CONCENTRIC TAPER UNIT (T-MH-2)	103.09
N - ECCENTRIC TAPER UNIT (T-MH-2)	103.09
O - RISER UNIT (R-1)	103.10
P - FLAT SLAB REDUCER (R-2)	103.10
Q - TAPER REDUCER (R-3)	103.10
R - MONOLITHIC BASE UNIT - OVER 4' DIA. (B-1)	103.11
S - DOGHOUSE BASE UNIT - OVER 4' DIA. (B-2)	103.11
T - FOOTING (B-2)	103.11
U - TEE SECTION BASE UNIT (B-3)	103.12
V - MONOLITHIC BASE UNIT - OVER 4' DIA. (B-1)	103.11
W - DOGHOUSE BASE UNIT - OVER 4' DIA. (B-2)	103.11
X - FOOTING (B-2)	103.11
ALTERNATE JOINT DETAIL	103.03

GENERAL NOTES - PRECAST

PRECAST STRUCTURES WILL CONFORM TO SECTION 302 OF THE SPECIFICATIONS. THE MANUFACTURER WILL HAVE THE OPTION OF SELECTING THE COMBINATION OF PRECAST UNITS TO COMPLETE A STRUCTURE UNLESS OTHERWISE NOTED ON THE PLANS.

THE "H" (LINEAR FEET FOR MANHOLES) DIMENSION SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF THE OUTFALL PIPE TO THE TOP OF THE MASONARY STRUCTURE. PLAN "H" DIMENSIONS ARE APPROXIMATE ONLY FOR ESTIMATING PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.

IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT STANDING OR PONDING OF WATER IN THE STRUCTURE. THIS WILL APPLY TO ALL STRUCTURES MEETING THIS CONDITION AND IS NOT TO BE CONFUSED WITH STANDARD IS-1 THE COST FOR INVERT SHAPING SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURE.

WHEN SPECIFIED ON THE PLANS THE INVERT IS TO BE SHAPED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE PRICE BID FOR THE STRUCTURE.

ALL PRECAST STRUCTURES TO BE CONSTRUCTED WITH 4000 PSI MINIMUM CONCRETE.

STEPS IN ACCORDANCE WITH STANDARD ST-1 ARE TO BE PROVIDED IN ALL MANHOLES AND IN ALL DROP INLETS WITH AN "H" DIMENSION OF 4'-0" OR GREATER.

3" DIAMETER WEEP HOLES WILL BE REQUIRED IN PRECAST STRUCTURE'S LOCATED ADJACENT TO THE PAVEMENT TO DRAIN THE SUBBASE. PLACEMENT OF WEEP HOLES IN THE PRECAST UNIT WILL BE DETERMINED BY THE PROXIMITY OF THE STRUCTURE TO THE SUBBASE. WEEP HOLES MAY ALSO BE REQUIRED IN OTHER STRUCTURES WHEN CALLED FOR ON THE PLANS OR DIRECTED BY THE ENGINEER.

WEEP HOLES WILL HAVE 12" X 12" PLASTIC HARDWARE CLOTH, 1/4" MESH OR GALVANIZED STEEL WIRE, MINIMUM WIRE DIAMETER 0.03", NUMBER 4 MESH HARDWARE CLOTH ANCHORED FIRMLY TO OUTSIDE OF STRUCTURE.

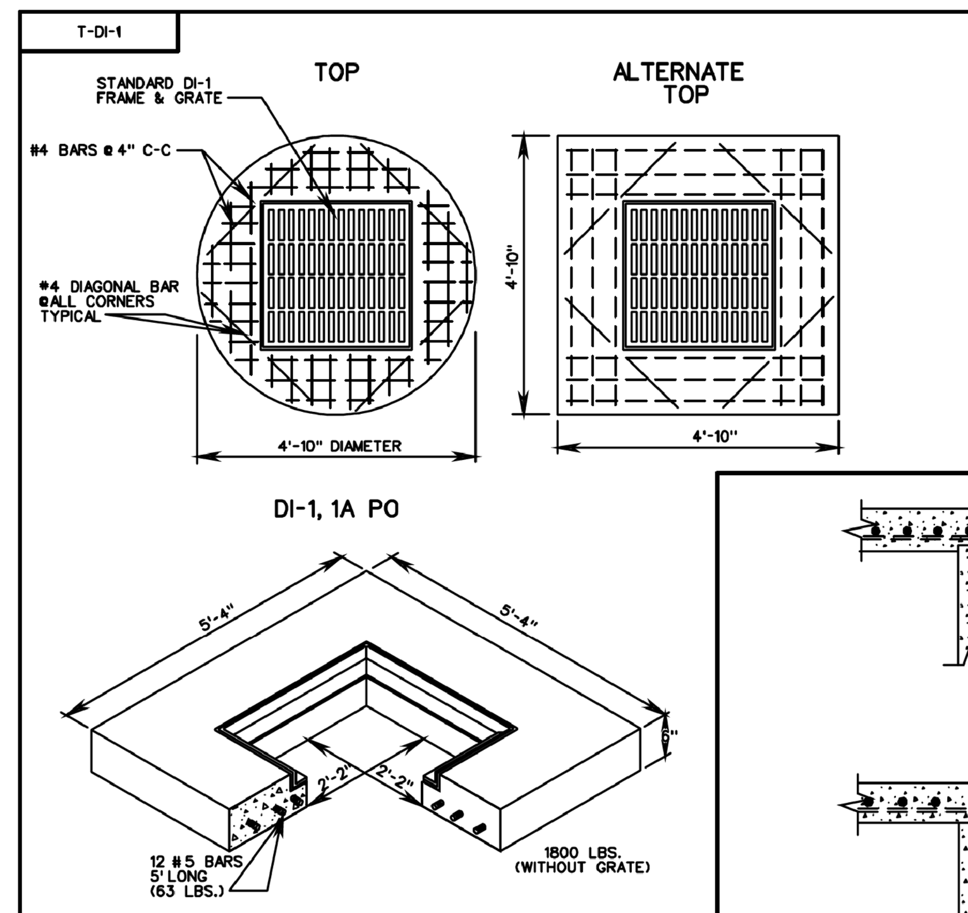
PRECAST UNITS LOCATED ADJACENT TO CAST-IN-PLACE CONCRETE ITEMS, SUCH AS FLUMES, DITCHES, GUTTERS, AND SIDEWALKS SHALL BE CONNECTED TO THE ADJACENT UNIT BY MEANS OF NO. 4 SMOOTH STEEL DOWELS SPACED ON APPROXIMATELY 12" CENTERS THROUGHOUT THE CONTACT LENGTH AND EXTENDING AT LEAST 4" INTO BOTH THE PRECAST UNIT TO RECEIVE THE DOWELS, THEY SHALL NOT EXCEED 5/8" DIAMETER.

THE STANDARD SAFETY SLAB (SL-1) IS TO BE USED ONLY WHEN SPECIFIED IN THE PLANS ON THE DRAINAGE SUMMARY SHEET AND/OR THE DRAINAGE DESCRIPTION. REFER TO STANDARD SL-1 FOR SAFETY SLAB INFORMATION.

3/4" CHAMFER MAY BE PROVIDED ON ALL EDGES AT MANUFACTURER'S OPTION.

SPECIFICATION REFERENCE	GENERAL NOTES - PRECAST VIRGINIA DEPARTMENT OF TRANSPORTATION	VDOT ROAD AND BRIDGE STANDARDS REVISION DATE 07/12	SHEET 1 OF 1 103.02

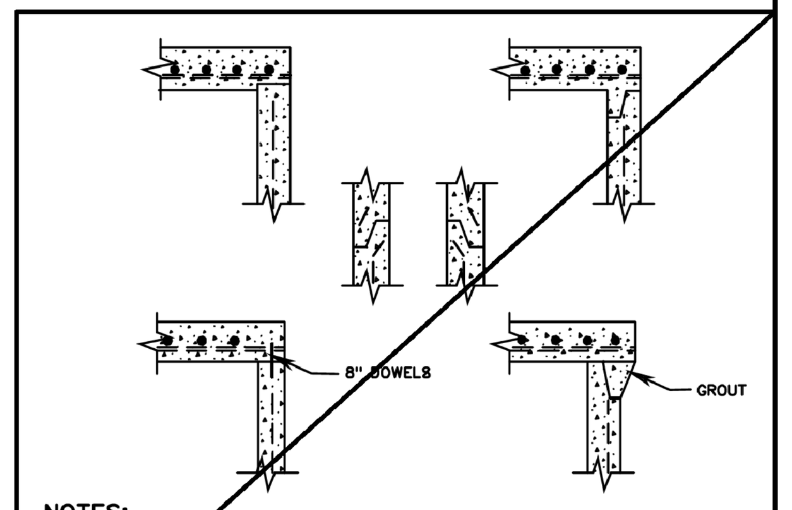
T-DI-1



RECOMMENDED MINIMUM HEIGHT CHART		
PIPE SIZE	H DIMENSION	
	CONCRETE	CORR. METAL
12"	2'-6"	2'-5"
15"	2'-9 1/4"	2'-8"
18"	3'-0 1/2"	2'-11"
21"	3'-3 3/4"	3'-2"
24"	3'-7"	3'-5"

NOTES:

1. SEE GENERAL NOTES PRECAST FOR ADDITIONAL DETAILS.
2. CONCRETE TO BE 4000 PSI MINIMUM.
3. REINFORCING STEEL IN ACCORDANCE WITH ASTM C-478, ASTM A-497 (WIRE FABRIC) AND ASTM A-615 (REINFORCING BARS).
4. CONCRETE COVER AND GRATE ARE TO BE FURNISHED AS A SINGLE UNIT.
5. SEE STANDARD DI-1, 1A FOR DETAILS OF FRAME AND GRATE.
6. DIMENSIONS SHOWN ARE MINIMUM. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.



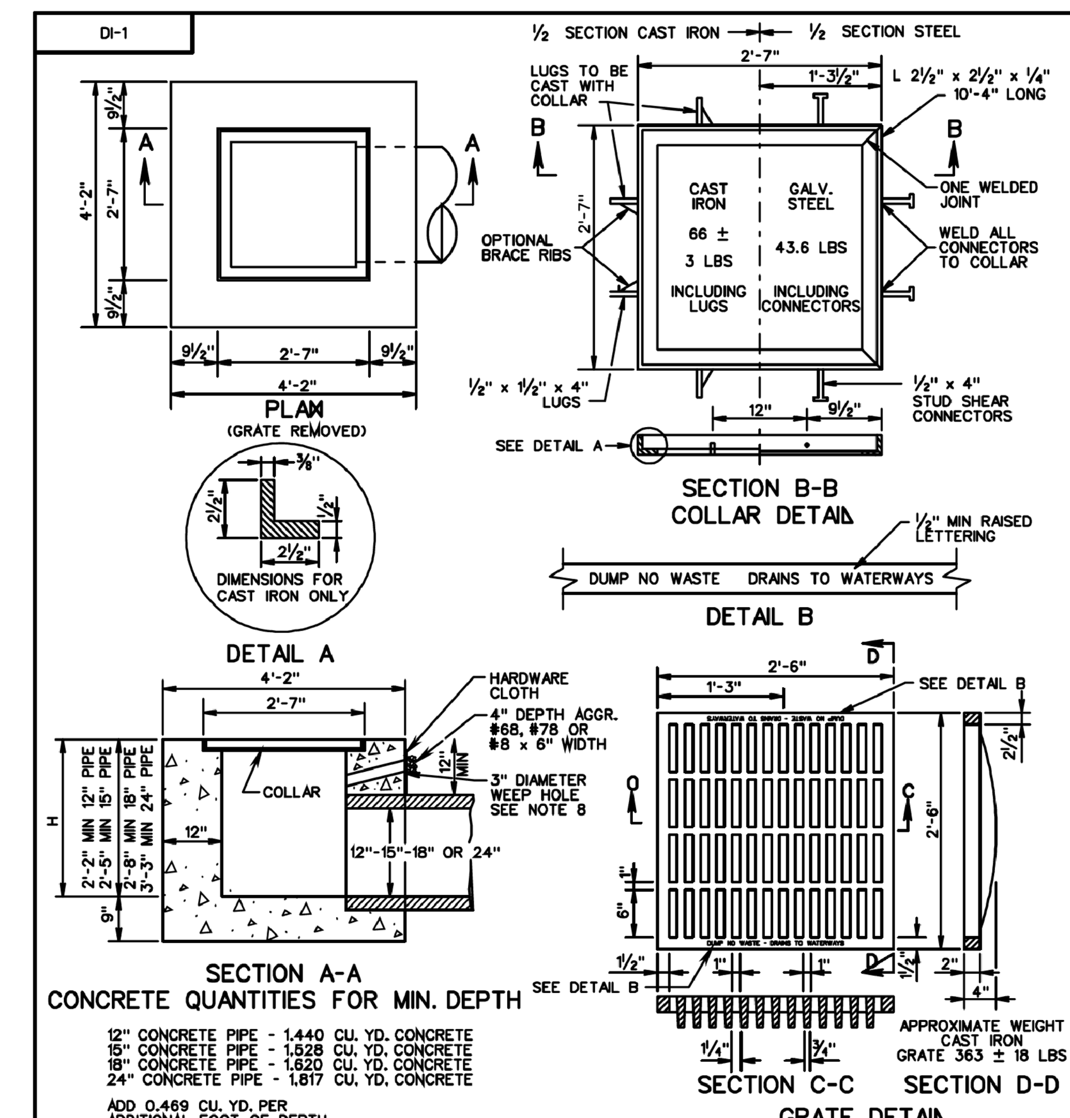
NOTES:

1. TONGUE AND GROOVE JOINT TO BE OF FABRICATOR'S DESIGN MEETING THE APPROVAL OF THE ENGINEER. JOINTS ARE TO BE SEALED WITH MORTAR, OR O-RING GASKETS OR BUTYL RUBBER.
2. ALTERNATE JOINT DETAILS APPLY TO ALL PRECAST UNITS.

ALTERNATE JOINT DETAILS

VDOT ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 / REVISION DATE 103.05	STANDARD PRECAST TOP UNITS VIRGINIA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE 105 233 302

DI-1



CONCRETE QUANTITIES FOR MIN. DEPTH

12" CONCRETE PIPE - 1.440 CU. YD. CONCRETE
15" CONCRETE PIPE - 1.528 CU. YD. CONCRETE
18" CONCRETE PIPE - 1.620 CU. YD. CONCRETE
24" CONCRETE PIPE - 1.817 CU. YD. CONCRETE

ADD 0.469 CU. YD. PER ADDITIONAL FOOT OF DEPTH.

NOTES

1. DEPTH OF INLET (H) TO BE SHOWN ON PLANS. FOR DEPTH GREATER THAN 10' USE STANDARD DI-1A
2. THE "H" DIMENSION SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF THE OUTFALL PIPE TO THE TOP OF THE STRUCTURE. PLAN "H" DIMENSIONS ARE APPROXIMATE ONLY FOR ESTIMATING PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.
3. WHEN SPECIFIED ON THE PLANS THE INVERT IS TO BE SHAPED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
4. IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT STANDING OR PONDING OF WATER IN THE STRUCTURE. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO INLET SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
5. STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER. FOR DETAILS SEE STANDARD ST-1.
6. THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.
7. #4 X 8" SMOOTH DOWELS AT APPROXIMATELY 12" C-C TO BE PLACED IN ALL AREAS ADJACENT TO ABUTTING CONCRETE TO PREVENT SETTLEMENT. IN LIEU OF DOWELS A 2"X4" NOTCH MAY BE PROVIDED. SEE STANDARD T-DI-3, 4 FOR ALTERNATE DESIGN.
8. 3" DIAMETER WEEP HOLE WITH 12"X12" PLASTIC HARDWARE CLOTH 1/4" MESH OR GALVANIZED STEEL WIRE, MINIMUM WIRE DIAMETER 0.03", NUMBER 4 MESH HARDWARE CLOTH ANCHORED FIRMLY TO THE OUTSIDE OF THE STRUCTURE.
9. CAST IN PLACE CONCRETE IS TO BE CLASS A3 (3000 PSI). PRECAST CONCRETE IS TO BE 4000 PSI.
10. ANY ALTERNATE METHODS OF ANCHORAGE MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THE CAST IRON LUGS AS SHOWN HEREON.
11. DUMP NO WASTE DRAINS TO WATERWAY LETTERING IS REQUIRED ON ALL DI-1 GRATES. LOCATION OF LETTERING MAY VARY BY MANUFACTURER.

VDOT ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 / REVISION DATE 104.01	STANDARD DROP INLET 12" - 24" PIPE: MAXIMUM DEPTH (H) = 10' VIRGINIA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE 233 302

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

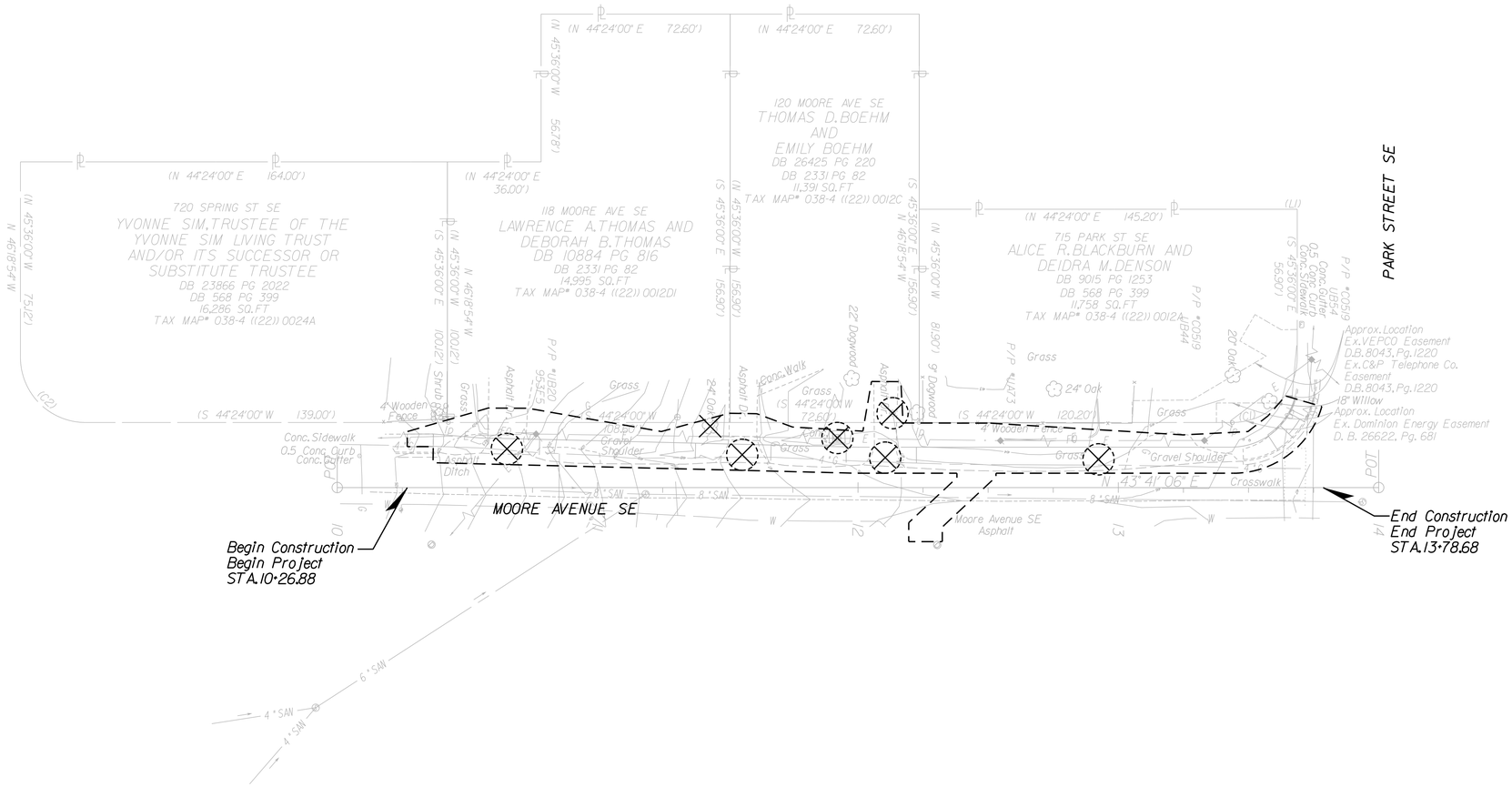
GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

TYPICAL DETAILS

SCALE: N/A		
DATE: 01/2024	SHEET 2A(2) OF 4	
DES: TL	DRAWN: JZ	CHECK: KO



LEGEND

- Denotes Limits of Disturbance
- Denotes Item to be Removed
- Denotes Item to be Relocated/Reconstructed

SCALE 0 25' 50'

REVISIONS

CLIENT INFORMATION

TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

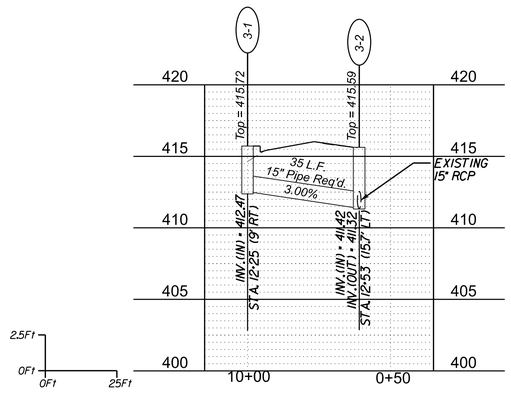
GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

EXISTING CONDITIONS AND DEMOLITION PLAN

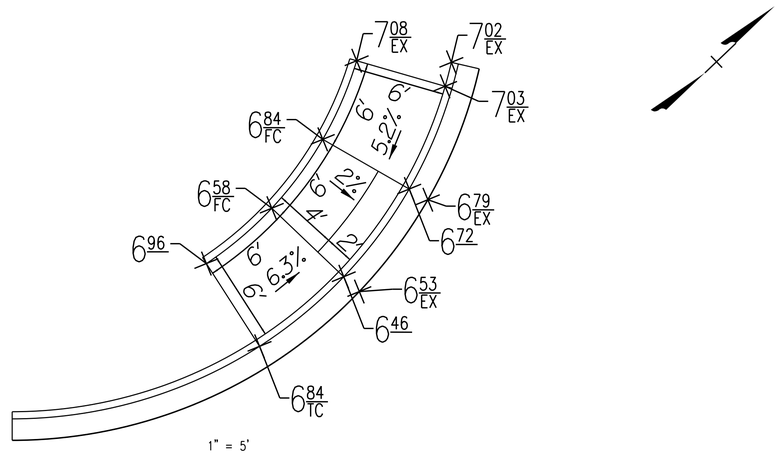
SCALE: 1"=25'		
DATE: 01/2024	SHEET 2B OF 4	
DES: TL	DRAWN: JZ	CHECK: KO

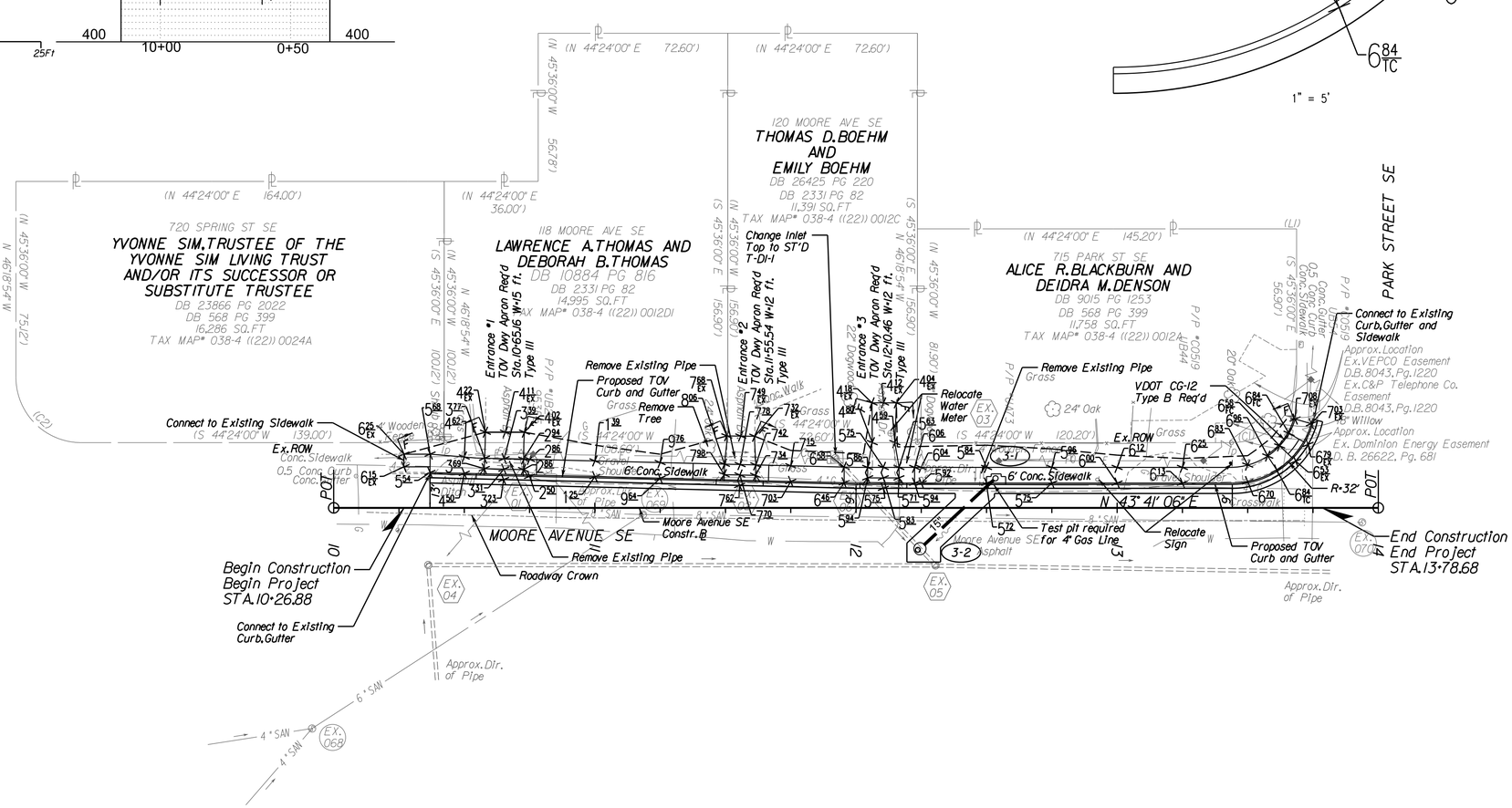


3-1 — I ST'D. DI-3C L=6'
INV. = 412.47, TOP = 415.72'

3-2 — I ST'D. MH-1 OR MH-2 REQ'D
IST'D. MH-1 FRAME AND COVER REQ'D
INV. = 411.32', TOP = 415.59'
ST'D IS-1 REQ'D

3-1 — 3-2 — 35' - 15" STORM SEWER PIPE REQ'D.
INV. (IN) 412.47', (OUT) 411.42'





Beginning chain MOOREAV description

Point MA001 N 7,011,980.4782 E 11,836,998.0066 Sta 10+00.00
Course from MA001 to MA002 N 43° 41' 06.12" E Dist 400.0000
Point MA002 N 7,012,269.7373 E 11,837,274.2840 Sta 14+00.00

Ending chain MOOREAV description

NOTES:

1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE
2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
4. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
5. PROPOSED SPOT ELEVATIONS ALONG CURB AND GUTTER ARE SHOWN FOR TOP OF CURB.

SCALE
0 25' 50'

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

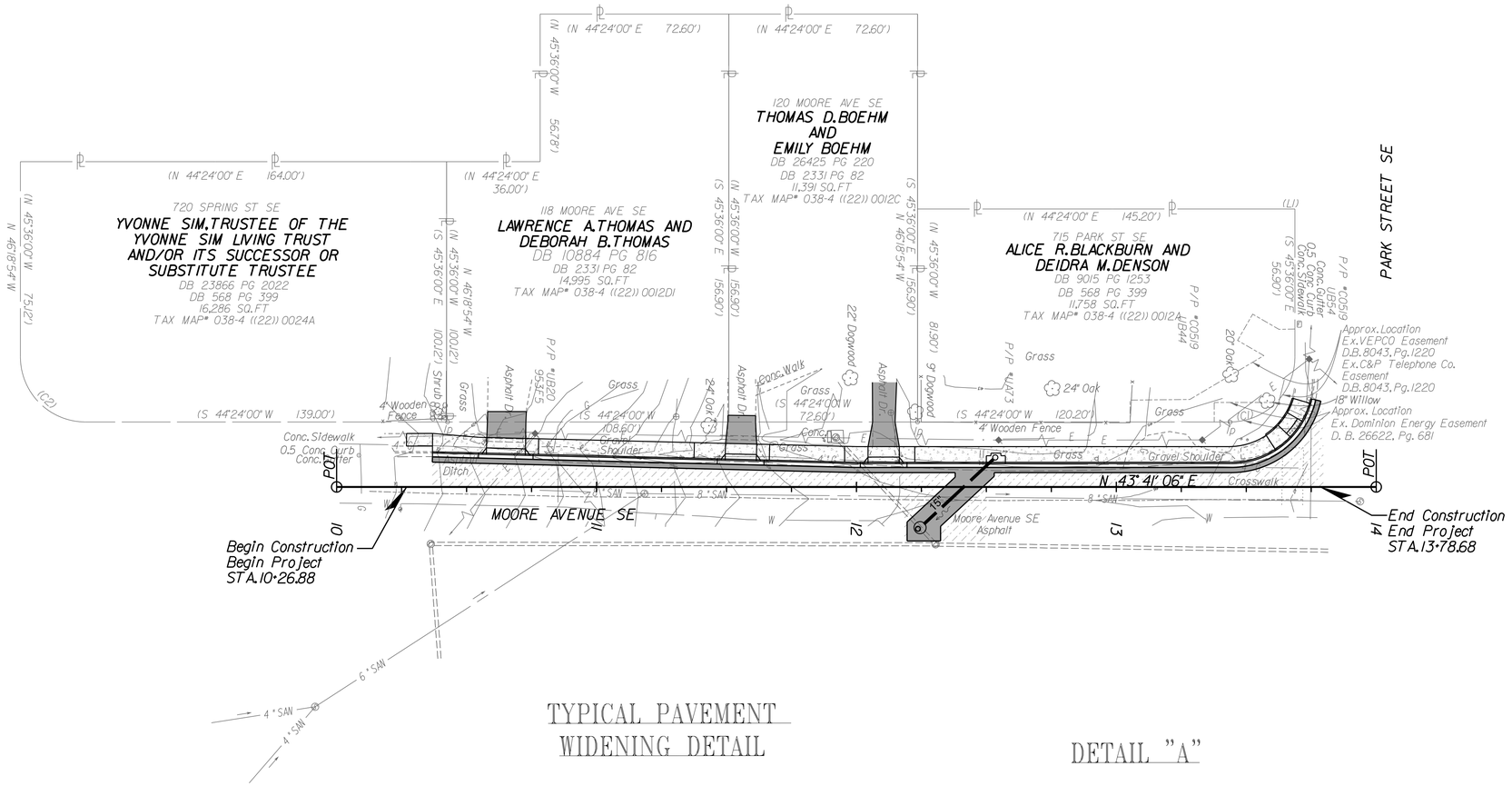
GRAPHIC SCALES

SIGNATURE

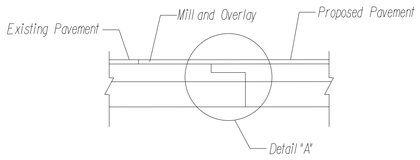
Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

SITE PLAN

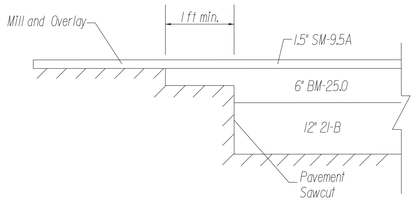
SCALE: 1" = 25'		
DATE: 01/2024	SHEET 3 OF 4	
DES: TL	DRAWN: JZ	CHECK: KO



TYPICAL PAVEMENT WIDENING DETAIL



DETAIL "A"



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Concrete (Curb & Gutter, CG-12, Sidewalk, etc)
- Proposed CG-12 Detectable Warning Surface

SCALE
0 25' 50'

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

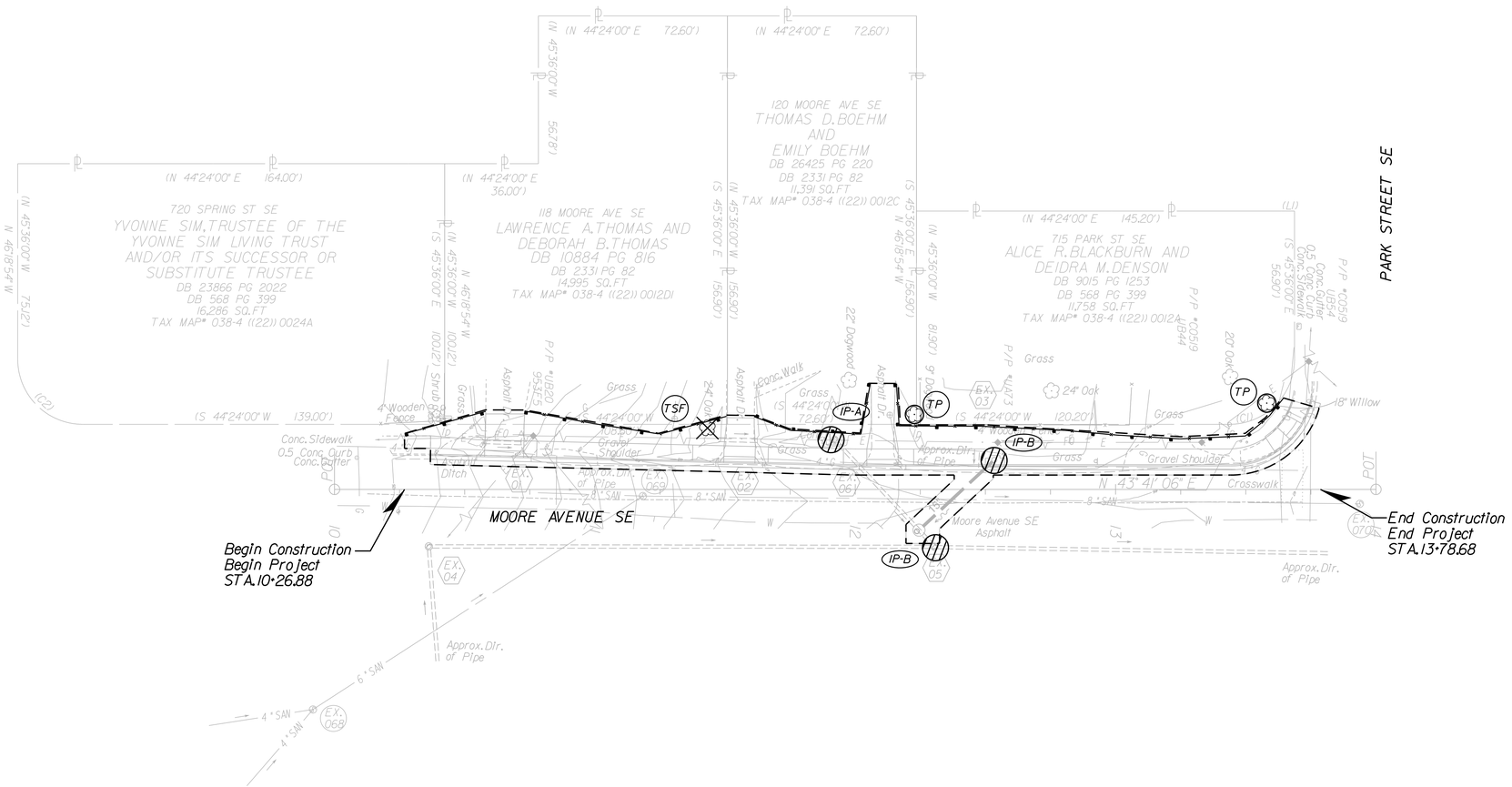
GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

PAVEMENT IMPROVMENT PLAN

SCALE: 1"=25'		
DATE: 01/2024		SHEET 3A OF 4
DES: TL	DRAWN: JZ	CHECK: KO



LEGEND

- Denotes Limit of Disturbance
- IP-A / IP-B — Denotes Inlet Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8
- TSF — Denotes Temporary Silt Fence
- TP — Denotes Tree Protection
- Denotes Tree to be removed

NOTES:

EXISTING 30" TREE AT 118 MOORE AVENUE SHALL BE REPLACED BY THE TOWN THROUGH COORDINATION WITH THE PROPERTY OWNER.

SCALE
0 25' 50'

REVISIONS

CLIENT INFORMATION
TOWN OF VIENNA, VA
127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

EROSION AND SEDIMENT PLAN

SCALE: 1"=25'		
DATE: 01/2024	SHEET 3B OF 4	
DES: TL	DRAWN: JZ	CHECK: KO

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF SIDEWALK AND DRAINAGE IMPROVEMENTS FOR THE EXISTING MOORE AVENUE SE. IMPROVEMENTS INCLUDE CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, CURB RAMPS, A DRAINAGE INLET AND A MANHOLE. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 0.16 ACRES.

EXISTING SITE CONDITIONS

THE SITE IS EXISTING ROADWAY, MOORE AVENUE SE, WITH CURB AND GUTTER, DRIVEWAY ENTRANCES, AND FRONT YARDS CONTAINING MAILBOXES, WATER METERS, TREES, FENCE, ETC.

ADJACENT PROPERTIES

THE SITE IS SURROUNDED ON ALL SIDES BY SINGLE-FAMILY LOTS.

OFF-SITE AREAS

THERE IS CONSTRUCTION ON OFF-SITE AREAS ADJACENT TO THE ROADWAY. EROSION AND SEDIMENT CONTROL DEVICES WILL BE PLACED OFFSITE AS SHOWN ON PLAN.

SOILS INFORMATION

SOIL ID NUMBERS	SOIL SERIES NAME	FOUNDATION SUPPORT	SOIL DRAINAGE	EROSION POTENTIAL	PROBLEM CLASS
105B	WHEATON-GLENELG COMPLEX	GOOD	GOOD	HIGH	IVB
105C	WHEATON-GLENELG COMPLEX	GOOD	GOOD	HIGH	IVB

CRITICAL EROSION AREAS

THERE ARE NO CRITICAL AREAS ASSOCIATED WITH THIS PROJECT. NO SLOPES ARE GREATER THAT 20%, AND THERE ARE NOT RESOURCE PROTECTION AREAS WITHIN THE PROJECT LIMITS.

EROSION AND SEDIMENT CONTROL MEASURES

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT ARE DESCRIBED IN DETAIL IN THE EROSION AND SEDIMENT CONTROL PROGRAM ON THIS SHEET.

OVERALL MANAGEMENT STRATEGY

THE OVERALL STRATEGY FOR THIS SITE IS TO TREAT THE ONSITE RUNOFF WITH PERIMETER SILT FENCE AND INLET PROTECTION.

EROSION CONTROL PROGRAM (GENERAL GUIDELINES)

NOT MORE THAN 75% OF THE SITE IS TO BE DENUDED AT ONE TIME. TEMPORARY SEEDING AND MULCHING ARE TO BE APPLIED TO ANY AREA WITHIN THE SITE NOT CONTINUOUSLY WORKED FOR 5 DAYS AFTER CLEARING AND ROUGH GRADING. IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:

1. CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS AND SHALL WORK THOSE AREAS TO MINIMIZE THE EXTENT OF HEAVY EQUIPMENT WORK. CONTRACTOR SHALL STRIVE TO BRING AREAS TO GRADE (ROUGH OF FINISH) AND TO STABILIZE, BY TEMPORARY OR PERMANENT VEGETATION, THESE DISTURBED AREAS PRIOR TO BEGINNING WORK IN OTHER AREAS.

2. FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE LEFT ROUGHENED TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL REDIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTRIBUTED AREAS TO STABLIZE OUTLETS.

3. CUT SLOPE, AS NECESSARY, SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS ABOVE THE SLOPE AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.

4. IN NEW PAVEMENT AREAS, PLACE THE AGGREGATE BASE STONE ON THE FINISHED SUBGRADE AT THE EARLIEST POSSIBLE TIME.

5. MATERIALS AND METHODS USED IN CONSTRUCTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES REQUIRED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS IN CHAPTER 3 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), THIRD EDITION, 1992, AS WELL AS ANY OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

6. WHERE APPROPRIATE AND FEASIBLE, AREAS IN WHICH NATURAL GRADES ARE NOT IMPACTED BY PROPOSED GRADING OR STOCKPILE AREAS, SHALL BE LEFT WITH THEIR EXISTING VEGETATION IN PLACE. ALL AREAS SUBJECT TO GRADING SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL.

7. PERMANENT OR SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 1 YEAR.

SEDIMENT CONTROL PROGRAM (PHASE 1)

1. INSTALL PERIMETER CONTROLS AS SHOWN ON THE PHASE 1 PLAN SHEET 3B (SILT FENCE, INLET PROTECTION, ETC.)

PERIMETER CONTROLS MUST BE APPROVED IN WRITING BY THE TOWN E&S INSPECTOR BEFORE CLEARING OF THE SITE CAN TAKE PLACE.

2. BEGIN GRADING OF PROJECT SITE AND RELOCATION OF UTILITIES, IF NECESSARY.

SEDIMENT CONTROL PROGRAM (PHASE 2)

1. BEGIN CONSTRUCTION OF SIDEWALK, DRIVEWAY ENTRANCES, PAVEMENT AND CURB AND GUTTER.

2. INLET PROTECTION (IP) INSTALLED DURING PHASE 1 SHALL BE ROUTINELY INSPECTED AND REPLACED IF NECESSARY.

3. PERMANENTLY STABILIZE UNPAVED AREAS WITH SOD (PER SEC. 3.33 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK).

4. THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

MAINTENANCE

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL AND PERMANENT CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

1. THE SITE SUPERINTENDENT, OR HIS REPRESENTATIVE, SHALL MAKE A VISUAL INPSECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E., SEEDED OR SODDED AREAS) ON A DAILY BASIS (ESPECIALLY AFTER A HEAVY RAINFALL) TO ENSURE THAT ALL CONTROLS ARE IN PLACE AND THAT NONE HAVE BEEN DAMAGED. ANY DAMAGED CONTROL SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY TO INCLUDE RESEEDING OR RESETTING, IF NECESSARY. WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, THESE AREAS MUST BE RE-SEEDED IMMEDIATELY TO PREVENT EROSION DAMAGE.

2. AFTER ALL CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS ARE STABILIZED, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND SHALL BE RESTORED ESTABLISHMENT OF VEGETATION, TO ITS NATURAL OR PROPOSED CONDITION. REMOVAL OF ANY CONTROL IS CONTINGENT UPON APPROVAL BY THE TOWN INSPECTOR.

PERMANENT STABILIZATION

AFTER CONSTRUCTION IS COMPLETE ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH SEC. 3.32 AND 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

STORMWATER MANAGEMENT

N/A

ADDITIONAL NOTES

1. THE TOWN INSPECTOR SHALL HAVE THE AUTHORITY TO DIRECT THE ADDITION OR DELETION OF EROSION AND SEDIMENT CONTROLS AS SITE CONDITIONS WARRANT.

2. EARTHEN STRUCTURES ARE TO BE STABILIZED IMMEDIATELY UPON COMPLETION.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VESCH.

THE STRUCTURAL PRACTICES PROPOSED WITH THIS PLAN ARE AS FOLLOWS:

1. SILT FENCE – 3.05
   A TEMPORARY SEDIMENT BARRIER CONSISTING OF A SYNTHETIC FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.

2. STORM DRAIN INLET PROTECTION – 3.07
   A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.

3. TOPSOIL – 3.30
   PRESERVING AND REUSING THE SURFACE LAYER OF SOIL FROM AREAS TO BE GRADED.

4. TEMPORARY SEEDING – 3.31
   THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.

5. SODDING – 3.33
   STABILIZING FINE-GRADED DISTURBED AREAS BY ESTABLISING PERMANENT GRASS STANDS WITH SOD.

6. MULCHING – 3.35
   APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE.

7. TREE PROTECTION – 3.38
   PROTECTION OF DESIRABLE TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY.

8. DUST CONTROL – 3.39
   REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBING, DEMOLITION, AND CONSTRUCTION ACTIVITIES, BY SPRAYING FROM A WATER TRUCK OR OTHER APPROVED METHOD.

GENERAL LAND CONSERVATION NOTES

1. ALL LAND CONSERVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

2. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 14 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE TOWN.

3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.

4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILL.

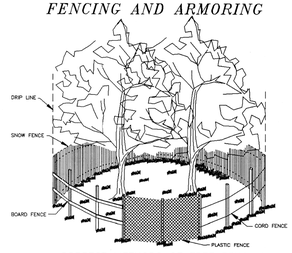
5. ALL TEMPORARY EARTH BERMS, AND DIVERSIONS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.

6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.

7. AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY SILTATION AND EROSION CONTOLS SHALL BE REMOVED AND ALL DISTURBED AREAS SHALL BE STABILIZED.

1992 3.38

FENCING AND ARMORING



CORRECT METHODS OF TREE FENCING

TRIANGULAR BOARD FENCE

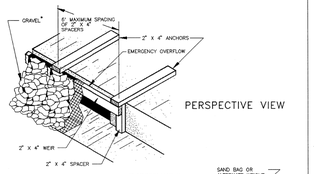
CORRECT TRUNK ARMORING

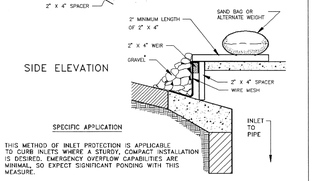
Source: Va. DSWC Plate 3.38-2

III - 401

1992 3.07

CURB INLET PROTECTION WITH 2-INCH X 4-INCH WOODEN WEIR





SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE TO CURB INLETS WHERE A STURDY, COMPACT INSTALLATION IS DESIRED. EMERGENCY OVERFLOW CAPABILITIES ARE MINIMAL, SO EXPECT SIGNIFICANT PONDING WITH THIS MEASURE.

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

Source: 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, and USDA-SCS Plate 3.07-7

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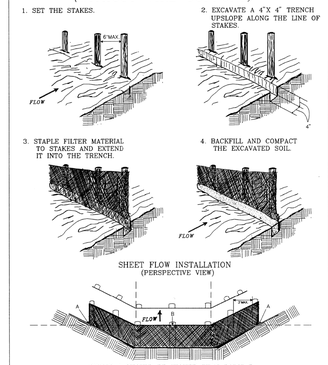
1992 3.05

CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



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

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REVISIONS

CLIENT INFORMATION

TOWN OF VIENNA, VA

127 CENTER STREET SOUTH
VIENNA, VA, 22180

MOORE AVENUE IMPROVEMENTS

GRAPHIC SCALES

SIGNATURE

Whitman, Requardt & Associates, LLP
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS

SCALE: N/A		
DATE: 01/2024	SHEET 4 OF 4	
DES: TL	DRAWN: JZ	CHECK: KO