



eConstruction Update

*Virginia Department of
Transportation*

Construction Division

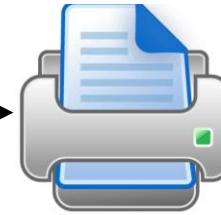
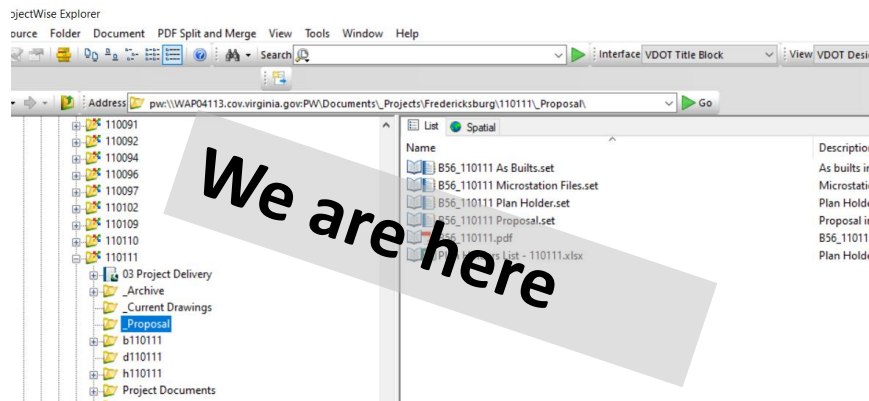
Programmatic Updates

- Tablet based inspection with PlanGrid
 - Statewide programmatic use this construction season
 - [Mobile Communication Memorandum](#)
- Department drone use for construction projects
 - [Unmanned Aerial Systems \(UAS\) Operations Manual](#)
- [AASHTOWare Construction Module](#) is on its way to VDOT
 - AWP Construction Module will replace SiteManager as VDOT's Construction Contract Management software system
 - Anticipated Quarter 1 2022 implementation
- 3D/4D Modeling
 - [3D Model Development Manual](#)

New and Upcoming eConstruction Programs



Digital Documents



Print



Pilot Digital Process

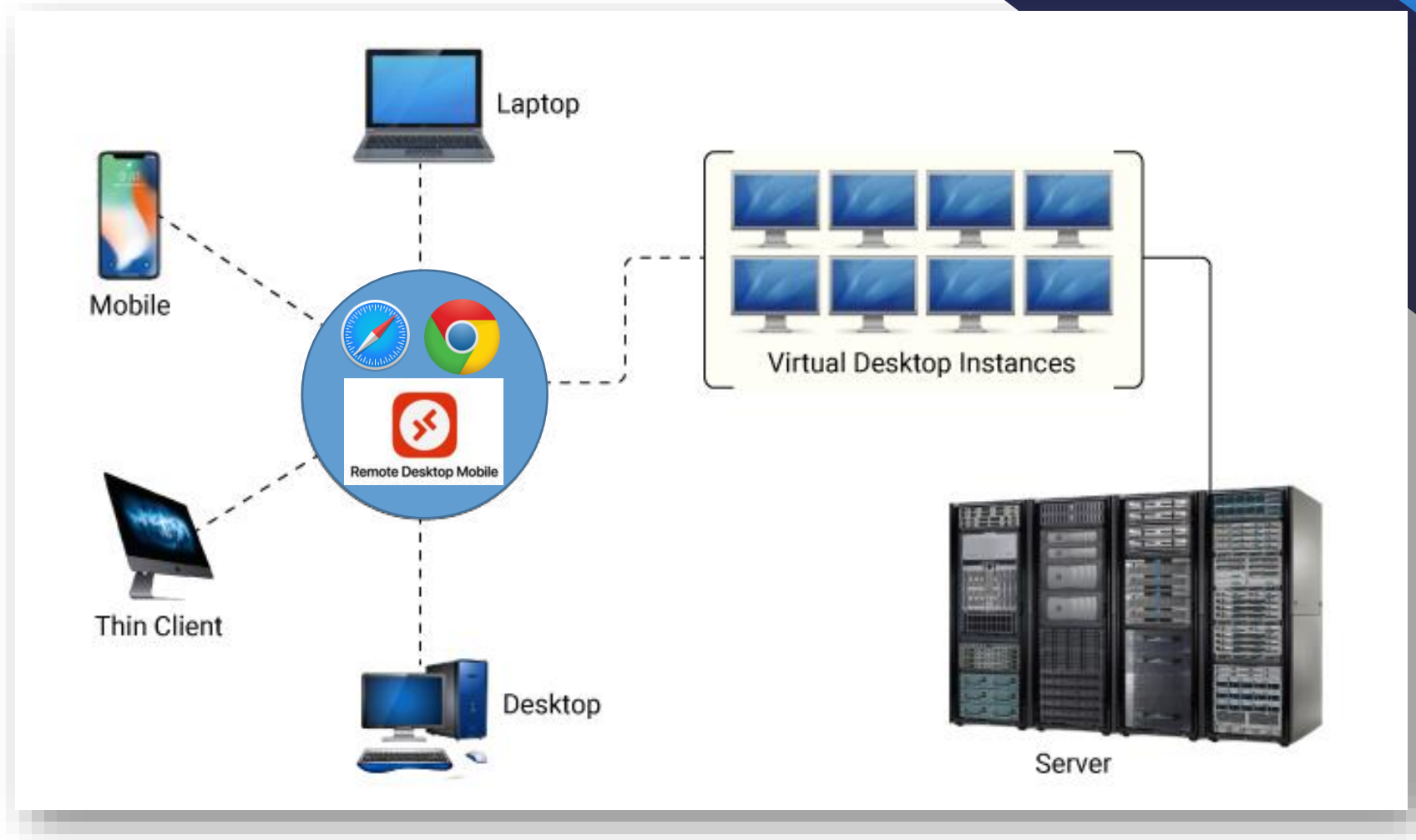
- Pilot will focus on a fully digitized contract award process
- Will use Commercial Off The Shelf (COTS) software
- Aim is to further stream line the award process and execute contracts quicker better faster

DocuSign®



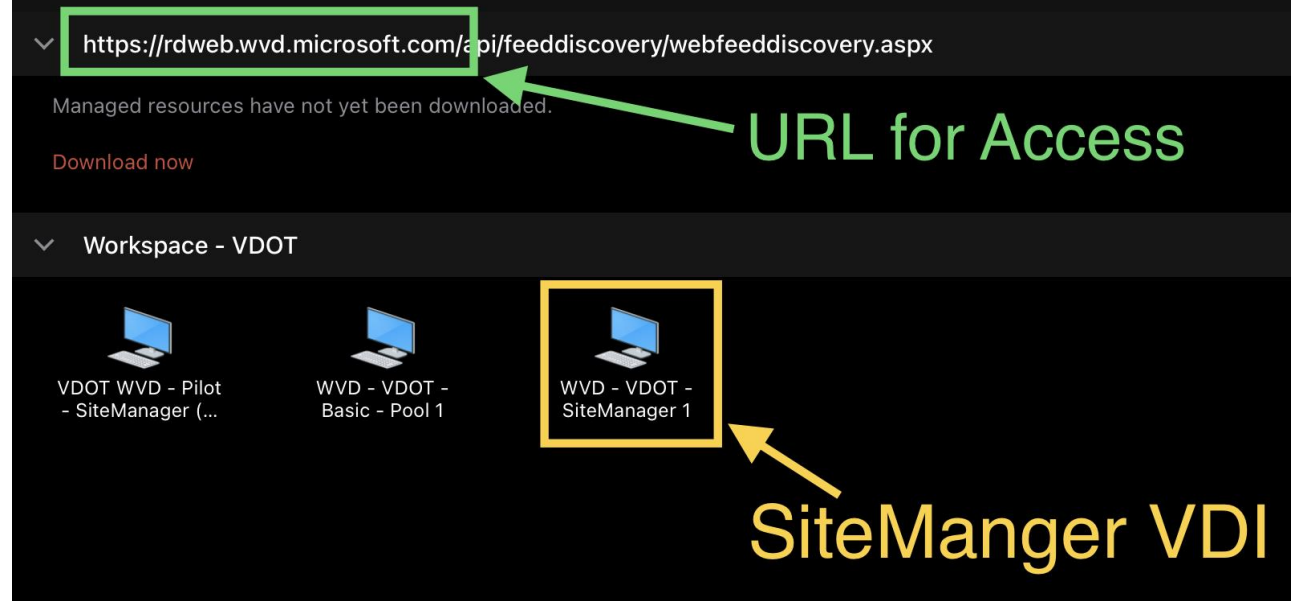
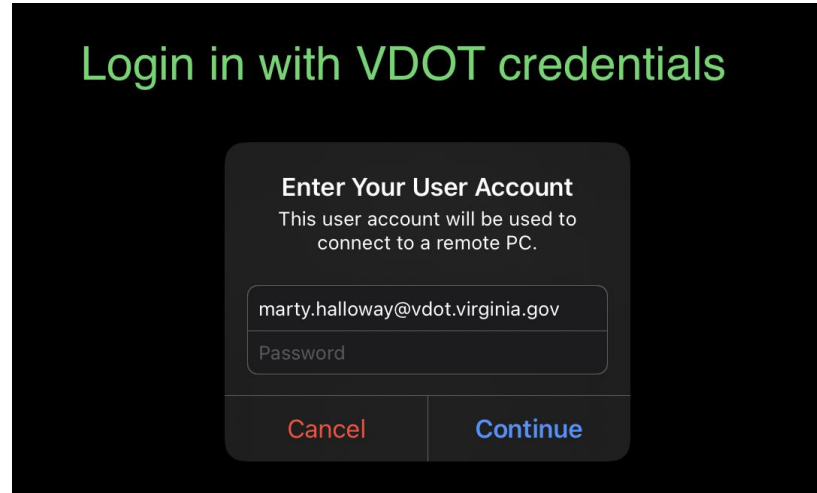
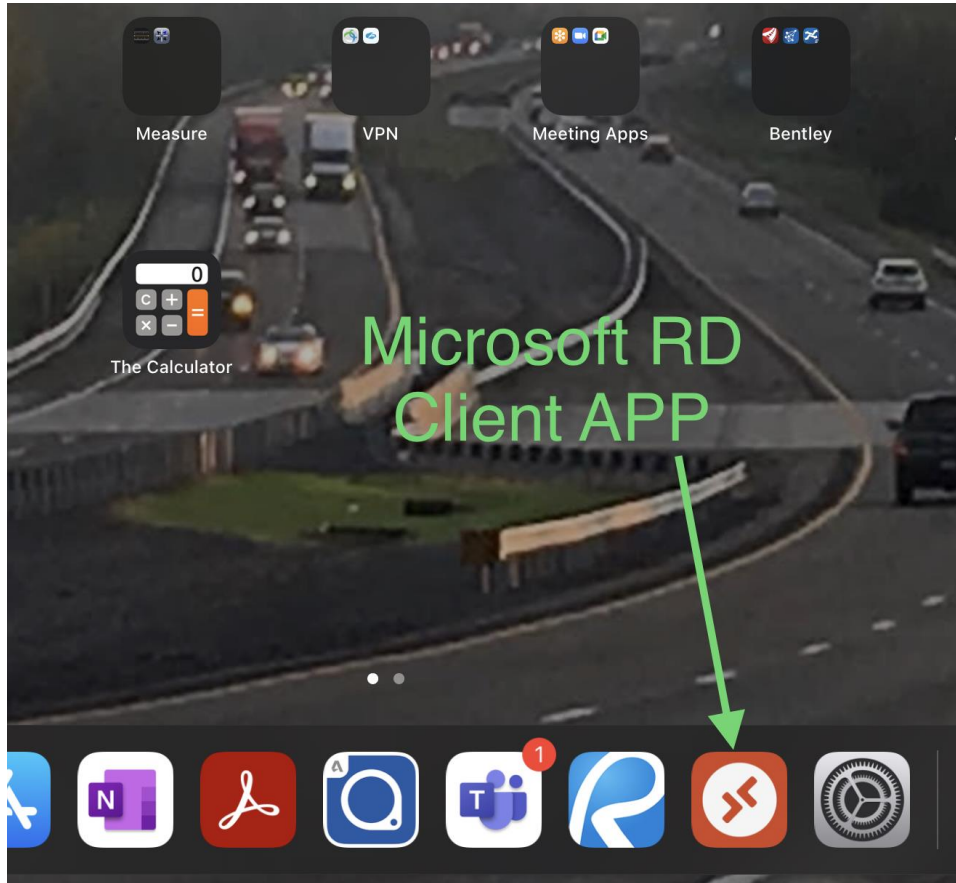
Virtual Desktop Infrastructure (VDIs)

- What it is?
- Who will use a VDI?
- What it isn't?
- When?
- Device requirements?
- Expectations



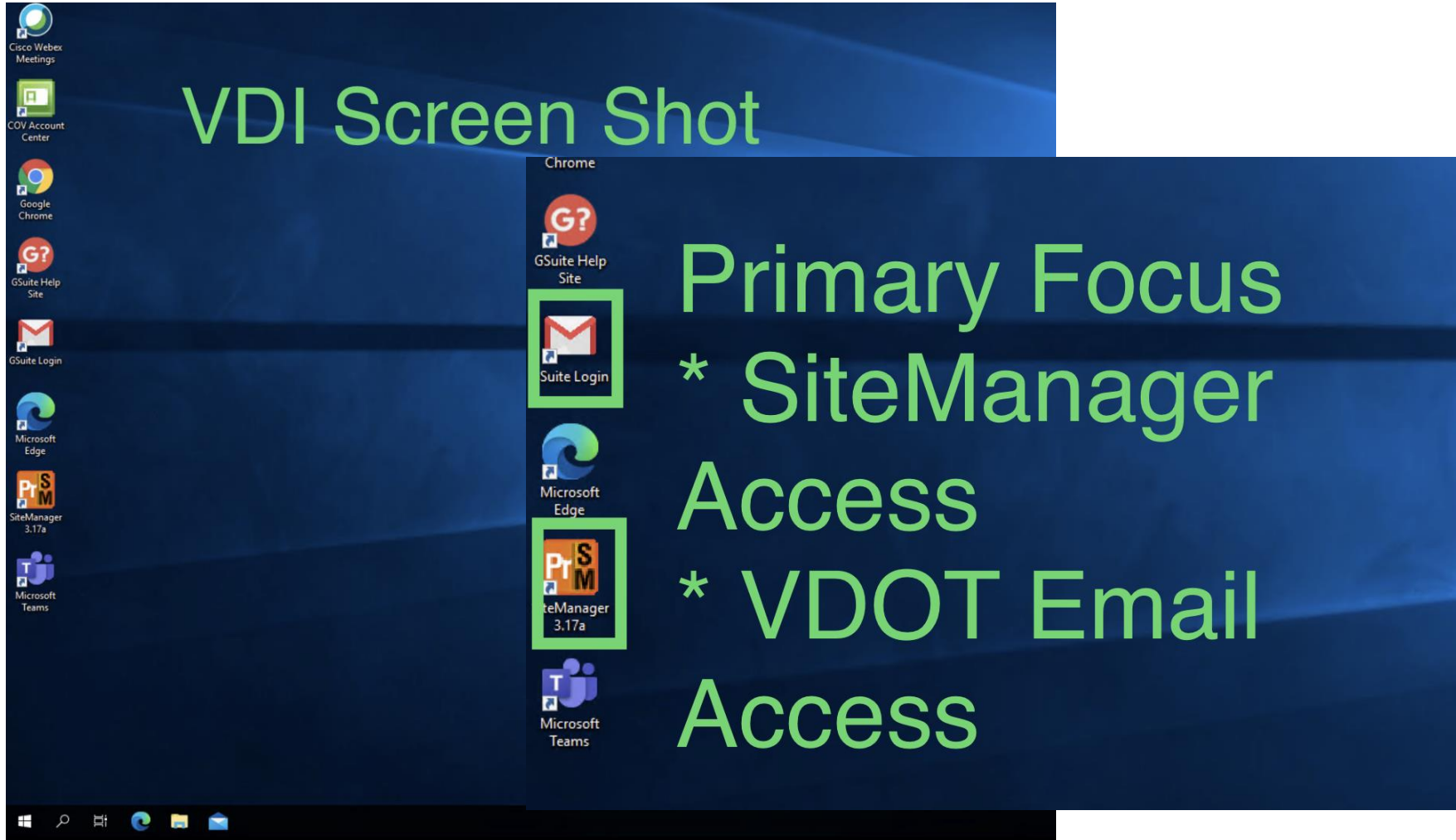
Virtual Desktop Infrastructure (VDI)

Application, URL, & Login



Virtual Desktop Infrastructure (VDI)

SiteManager



The image shows a Windows desktop environment with a dark blue background. On the left side, there is a vertical taskbar containing several application icons: Cisco Webex Meetings, COV Account Center, Google Chrome, GSuite Help Site, GSuite Login, Microsoft Edge, SiteManager 3.17a, and Microsoft Teams. In the center-right area, there are two application windows open. The top window is titled 'Chrome' and contains the 'GSuite Help Site' page, with a 'Suite Login' button highlighted by a green square. The bottom window is titled 'Microsoft Edge' and contains the 'SiteManager 3.17a' application, also highlighted by a green square. The taskbar at the bottom shows the Start button, search icon, task view icon, and several pinned application icons.

VDI Screen Shot

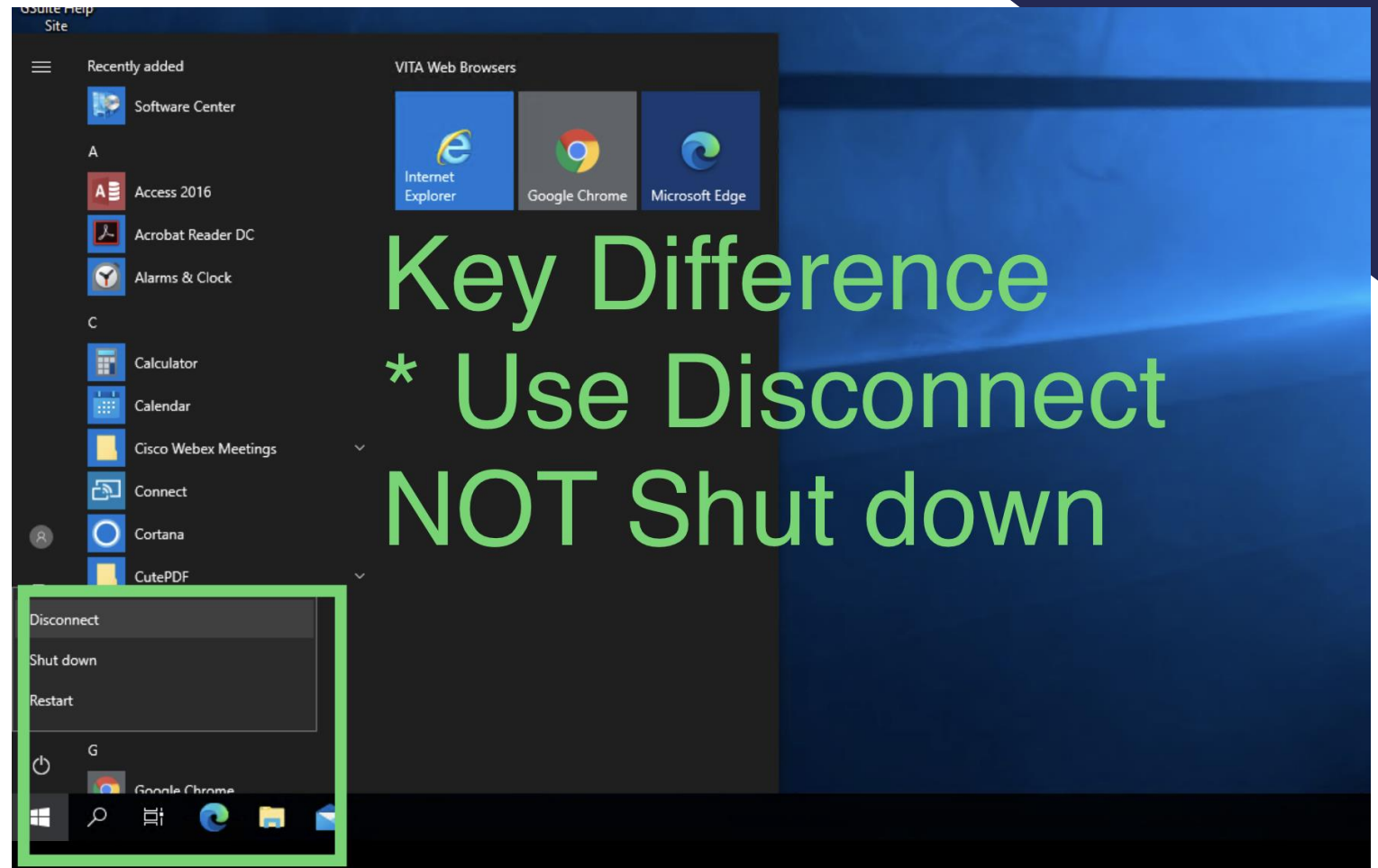
Primary Focus
* SiteManager
Access
* VDOT Email
Access

Virtual Desktop Infrastructure (VDI)

Logging Out

Do not select
> Shut down
OR
> Restart

Unless instructed by VITA

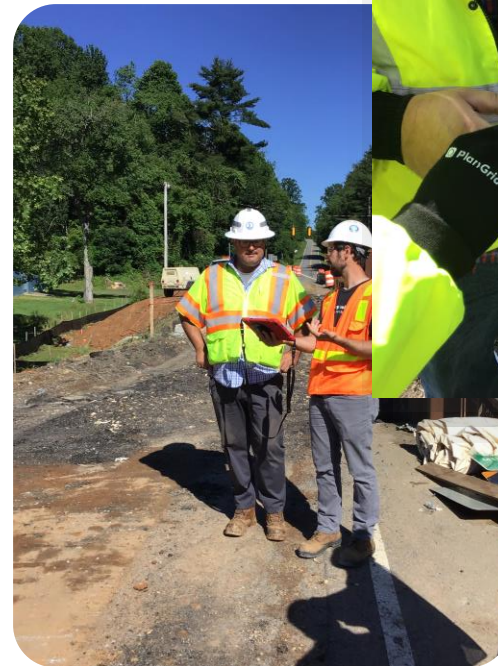


Tablet Based Inspection Programs



Tablet Based Inspection

- Digital Plan Viewing
- Reporting and Data Collection
- Communication and Collaboration
- Issue Resolution
- Remote Access to Project Information



What is PlanGrid

PlanGrid is a Tablet Based Inspection Tool used to:

- Review and mark-up plans and documents in the field
- Allow project teams to collaborate effectively
- Capture pictures and videos
- Complete and review field reports and forms
- Create punchlists and track issues

The image displays the PlanGrid mobile application interface. On the left, a navigation menu includes options like Home, Sheets, Tasks, RFIs, Field Reports, Documents, Photos, Submittals, Team, and Settings. The main screen shows a 'Field Reports' section for '110111 Inspector Daily'. A report titled '110111_0207-016-634_WEAP_reports_Approved (2 of 35)' is open, detailing 'Compressive Stress: 3.4 ksi and Tensile Stress: 1.05 ksi' and 'Abutment A' data. Below the report, technical drawings are shown, including a plan view of a foundation with piles labeled PF0503, PF0801, PF0802, and PF0504, and an elevation view showing 'ELEVATION' and 'Elev. 70.9 typ.'. A red arrow points to a specific pile with the text: 'Test Pile 18" 70" Column 2 11 V Left ahead 9/22/20'. A 'Download' button is visible in the top right corner of the report view.

PlanGrid: Statewide Usage

77,608

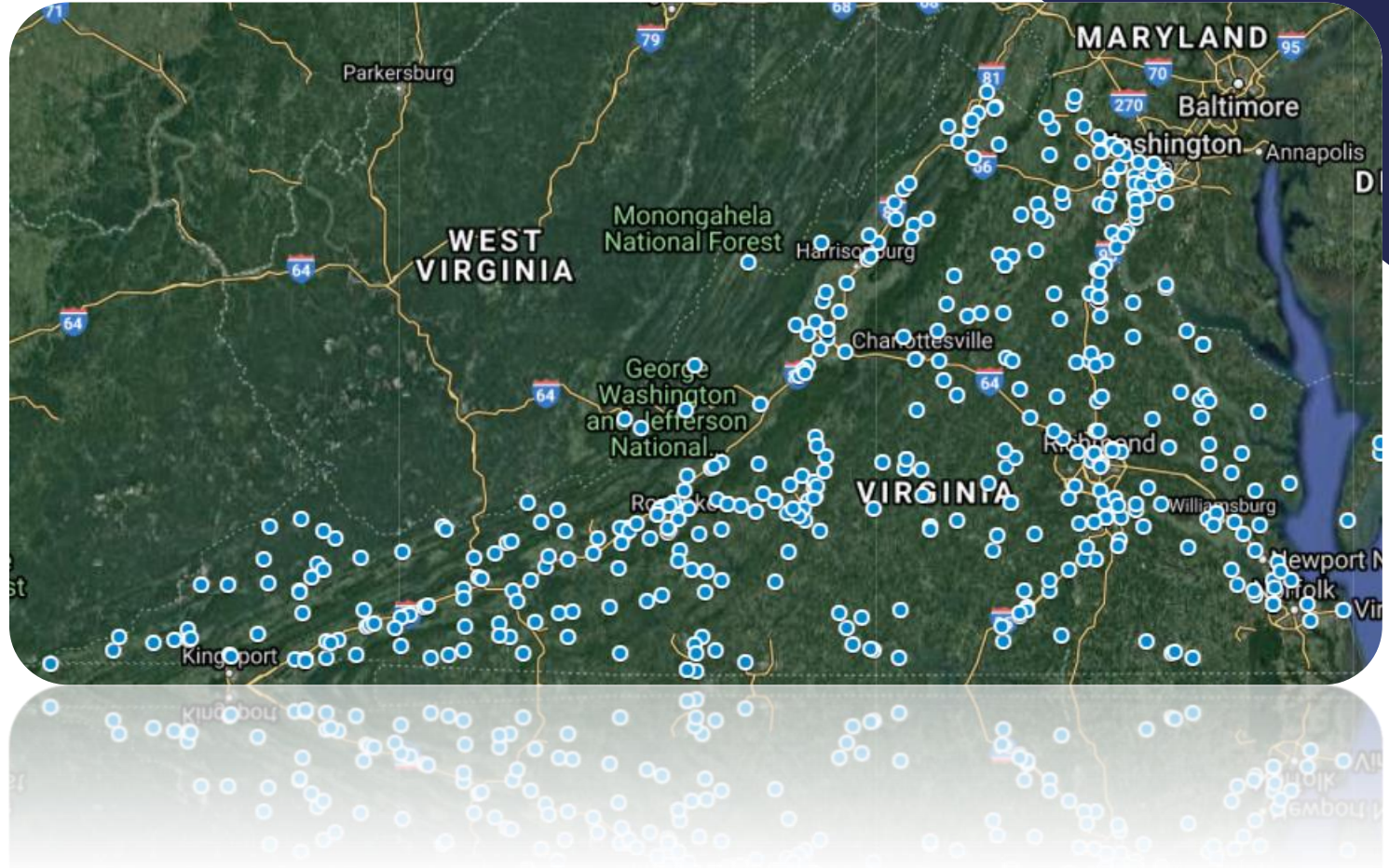
Plan Sheets

107,438

Photos

50,359

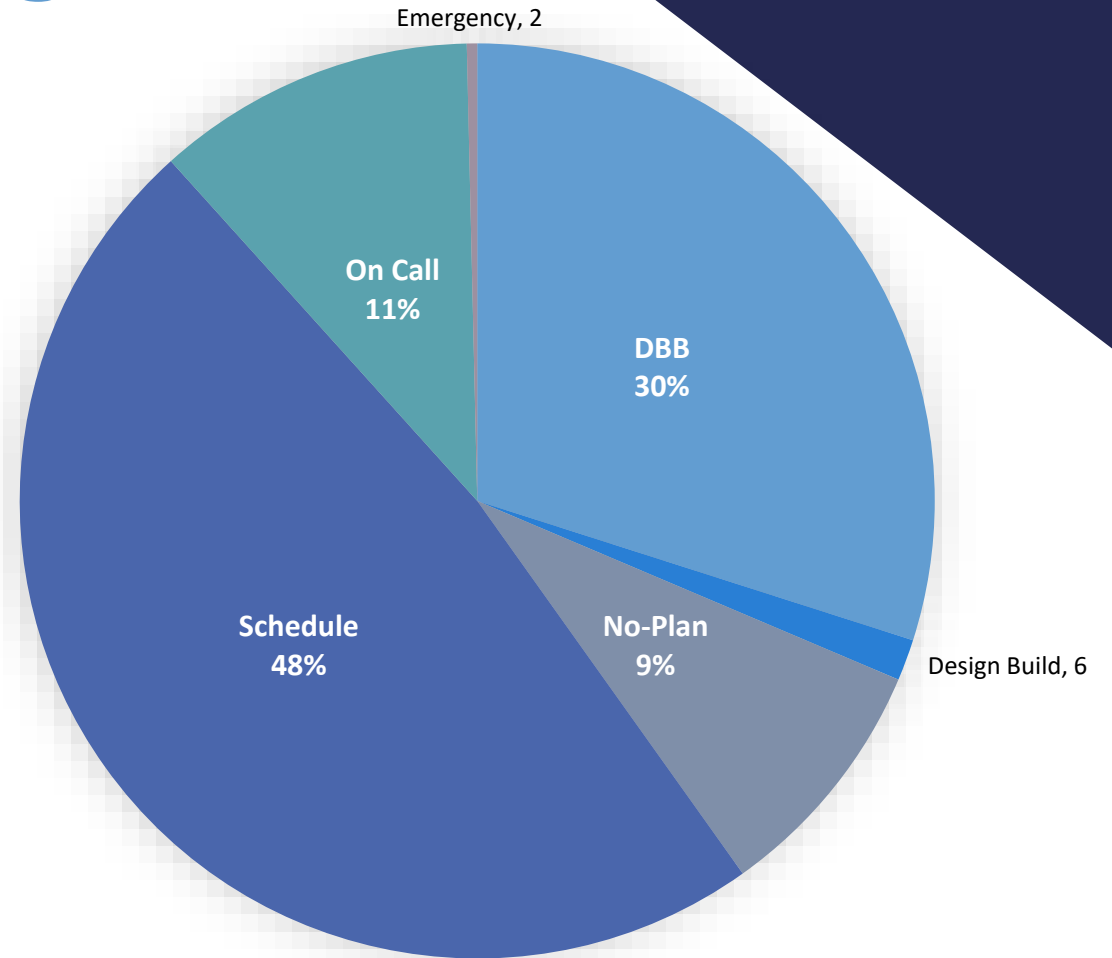
Field Reports



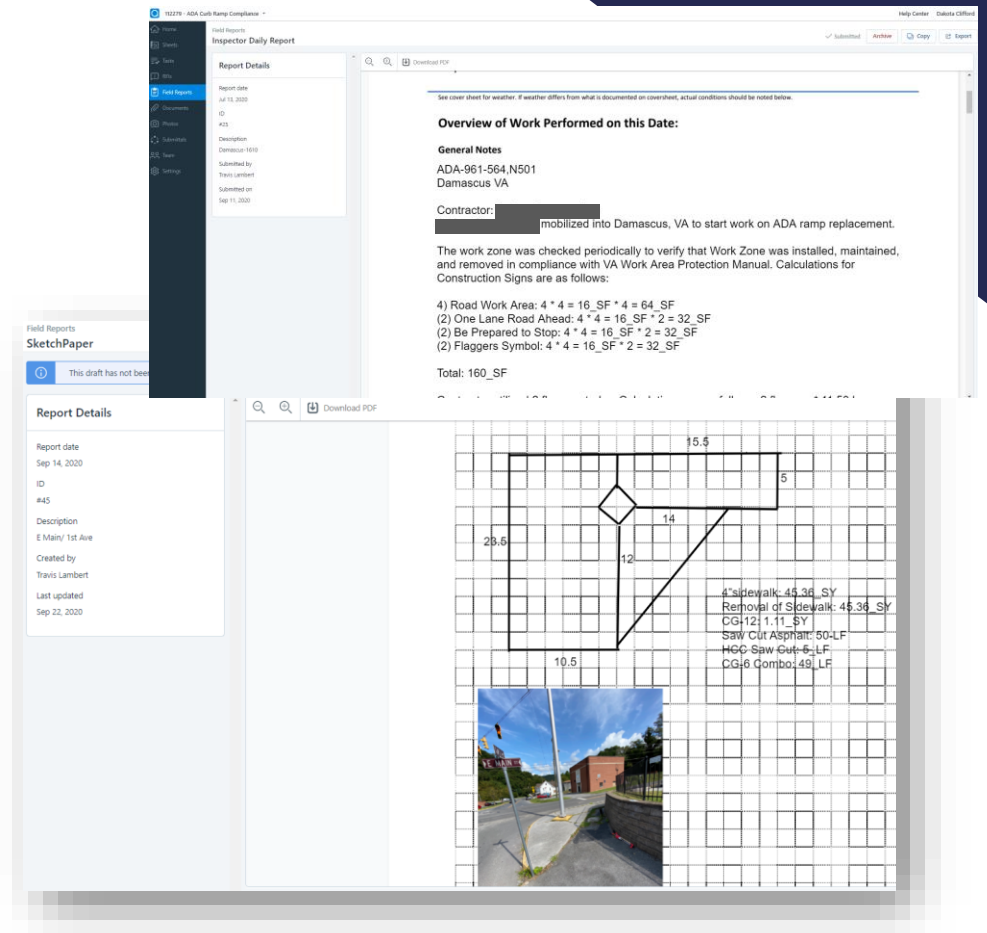
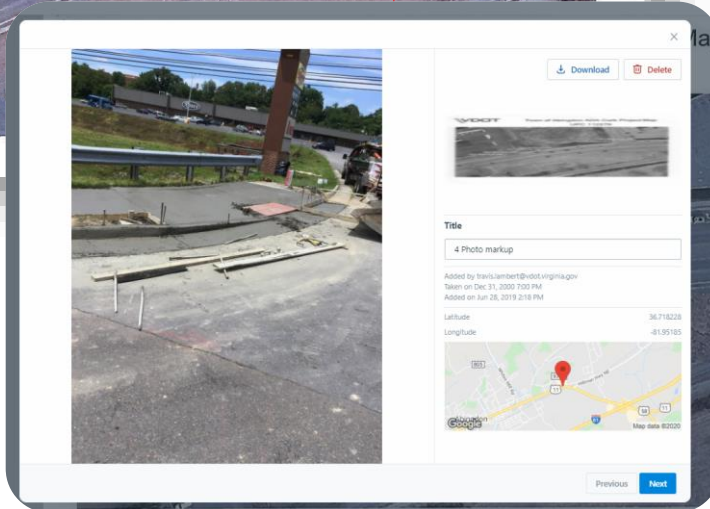
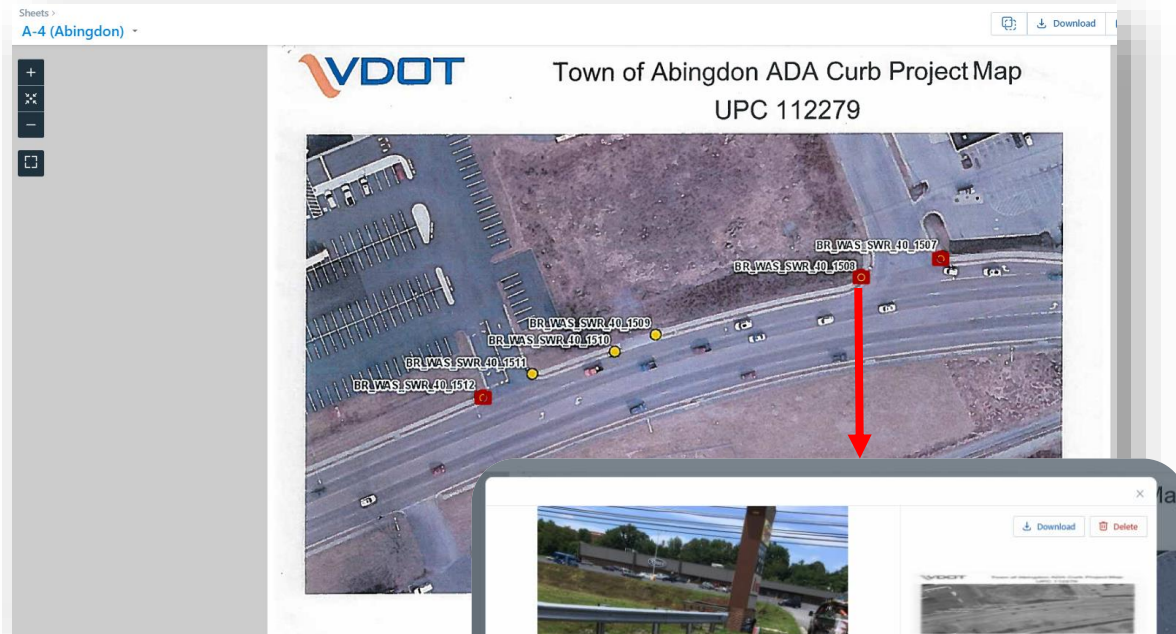
PlanGrid: Statewide Usage

310 Active PlanGrid Projects

515 Projects to Date



Bristol District No-Plan Contract



Fredericksburg District Schedule Work

116999 - PM-6S-20
64 White Oak Road, Fredericksburg, Virginia

#20 Pothole due to mud flap at Deacon rd in front of 7-11

Status
Closed

Type
Issue

Location
Deacon rd & Jett st

List
Damage

Root Cause
Coordination >
Constructibility


Description
A mud flap was caught under paver and now it has created a pot hole. CM notified Allan Myers super & foreman - I said thy should saw cut it and patch today so it doesn't create a bigger hole.

Comments
Density technician sawcut a square around, removed excess asphalt, tacked the hole, filled with SM-12.5E mix, and compacted patch area after removing mud flap on 11/5/2020. Location is at intersection of Deacon Road and Jett St.


Steve Nilson Nov 5, 2020

Photos

116999 - PM-6S-20
64 White Oak Road, Fredericksburg, Virginia



IMG_1203
Steve Nilson
Nov 5, 2020 4:24 PM



IMG_0043
Edward Skotzko
Oct 30, 2020 1:35 PM

11:15 AM Fri Feb 19

Projects **Tasks**

- #15 Steve Nilson
- Left turn lanes into Weiss...
#13 jquadros@amtengineering.co...
- Damaged State Signs on m...
#12 Steve Nilson
- Left turn lane on Rt 218 Ea...
#11 Unassigned
- Valve & Manhole covers ne...
#9 Jeremy Quadros and Steve Nilson
- Asphalt & Debris left
#8 Steve Nilson and Sylvester Okp...
- 218 Guardrail Hit By Tack T...
#5 Steve Nilson and Sylvester Okp...
- Northside Dr Damaged Tie...
#3 Unassigned
- Broken 6" utility
#2 Edward Skotzko and Steve Nilson
- Low Grate In Front District...
#1 Anthony Mitchell and Edward Sk...

#9

Due date
Nov 16, 2020

Stamp
Utilities

List
Punch List

Sheet
Select sheet


Root Cause
Workmanship

Description
Multiple valve & man hole covers are now not level that need risers. Some were good before and now are not. Others needed additional riser.

Comments
Water valve sleeve broken after being exposed to traffic in center left turn area on change or...
Steve Nilson at Nov 11, 2020 at 11:23 AM

7 comments

References



Add photos and videos

Sheets Documents Tasks Field Reports Team More

Richmond District Schedule Work

Field Reports
Inspector Daily Report Large

Inspector Daily Report Large

References

Photos Map View

Download PDF

INSPECTOR: Andrew Smith
LOCATION: Rte.36 Pg. 5 of 13
PRIME CONTRACTOR: [REDACTED] (7:00pm -5:30am)

GENERAL TYPE OF WORK PERFORMED: Milling and Traffic Operations
WORK PERFORMED INFORMATION

- Milled surface showed little to no scabbing.
- Milling was with 1/4" tolerance according to section 515.02 of the Road and Bridge Specification.
- Drainage outlets were cut along the shoulders to avoid trapping of water were applicable.
- Work was performed from +/- MM. 2.28 to +/- MM 1.87 WB
- The road was clean before traffic was released at the end of the shift

Milling Quantities
Mainline Rte.36. 0-2"Flexible Pavement Planning 2175'x 20'/9= 4,833.33 SY
Total of 4,833.33 SY

PAVING OPERATION (7:00pm - 5:00am)

EQUIPMENT & TRAFFIC INFORMATION

- Contractor used a broom tractor, sweeper/vac. truck, tack truck, track paver, 1 (13 ton)1(5Ton) roller, dump trucks and various hand tools.
- Worked in the same work zone as the milling operation

11:19 PM Thu Sep 24

< 115062 - PM4C - 2020 Plant Mix Chesterfield 5 (AFC)

Search in this sheet

Published Photos (1) Add

Move Unpublish Copy Layer Remove

Page 5 of 13

State Project Number: PM4C-020-F20, P401
Subdivision: 36 (R-VA SPO0036ER) Milepost From: 1 Lane: B
Traf Crp: XIII Milepost To: 2
From Intersection: 1.71 Miles: Lee St PRINP (Chesterfield Crty), SC-1310N/S (Chesterfield Crty), SC-1310N/S (Chesterfield Crty)
From Offset: OMI
To Intersection: OMI
To Offset: OMI
Public Comments: OMI
Street Names: River Rd
To X/Y Coordinates:

Item Code & Description	Detail	Len(mi)	Width(ft)
16417 - TACK COAT	TACK COAT		
16417 - TACK COAT	TACK COAT FOR PATCHING		
16360 - ASPH. CONC. TY. SM 12 SE	MAINLINE	0.57	40
16360 - ASPH. CONC. TY. SM 12 SE	TURN Lanes 2) & CONNECTIONS 8) @ 2" PATCHING @ 2"		
16412 - NS ASPH. CONC. TY. SM	MILLING @ 2" FOR PATCHING		
16365 - NS ASPH. CONC. TY. SM 12 SE (PATCH)	MAINLINE	0.57	40
16332 - FLEXIBLE PAVEMENT PLANNING	TURN Lanes 2) & CONNECTIONS 8) @ 2" LINE MARKINGS FOR TURN Lanes		
16332 - FLEXIBLE PAVEMENT PLANNING	DOUBLE YELLOW CENTERLINES		
54032 - TYPE B CLASS I PAVT LINE MARK 4" - White	CROSSBARS		
54032 - TYPE B CLASS I PAVT LINE MARK 4" - White	CROSSBARS		
54032 - TYPE B CLASS I PAVT LINE MARK 4" - Yellow	DOUBLE YELLOW CENTERLINES		
54042 - TY CL1 PAVE LINE MARK 24" - White	STOP BARS		
54042 - TY CL1 PAVE LINE MARK 24" - White	STOP BARS		

11:19 PM Thu Sep 24

< 115062 - PM4C - 2020 Plant Mix Chesterfield 5 (AFC)

Search in this sheet

Published Photos (17) Add

Move Unpublish Copy Layer Remove

Page 5 of 13

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16360 - ASPH. CONC. TY. SM 12 SE	TURN Lanes 2) & CONNECTIONS 8) @ 2" PATCHING @ 2"		
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54032 - TYPE B CLASS I PAVT LINE MARK 4" - White	CROSSBARS		
54032 - TYPE B CLASS I PAVT LINE MARK 4" - Yellow	DOUBLE YELLOW CENTERLINES		
54042 - TY CL1 PAVE LINE MARK 24" - White	STOP BARS		
54401 - PAVT MESSAGE MARK SCHOOL ZONE	"SCHOOL"		
54428 - TEMP PAVT MARK TY. A, 4"	TEMP CENTERLINES & TURN Lanes 2 SETS		
54436 - TEMP PAVT MARK TY. A, 12"	TEMPORARY STOP BARS		
54576 - PARTS/MSG MARK SIGL TURN WY. TY. B CL. 1 - White	TURN ARROWS		

Macellaneous Notes

All work must be completed between the hours of: 9:00 AM 3:00 PM & 7:00 PM & 30 min

Digital Collaboration

- Digital Collaboration
- Increased Communication
- Organization: Reports, Documents, Tracking
- Regulatory Compliance

96938 – Fluvanna County Roundabout

C-107 – PART I
(v. 08/30/2019)

CONSTRUCTION RUNOFF CONTROL INSPECTION FORM (CRCIF) C-107 CONTRACTOR INSPECTION SHEET



C-107 – PART I
(v. 08/30/2019)

Project Name/ID: 0053-032-S71_C501 UPC: 96938
 Contractor: [REDACTED]
 Inspection Date: 11-5-2020

Type of Inspection: (Check Appropriate Block)

- (1) Schedule 1: (5 Business Days and within 24 hours following a measurable storm event)
- Alter Measurable Storm Event Estimated Total Rainfall of Storm Event - _____ inches
- (2) Schedule 2: (Monday and Thursday/ 4 Business Days)
- (3) Monthly Schedule
- (4) Other Describe: _____

Weather Conditions (At Time of Inspection) (Check All Appropriate)
 Clear Sunny Partly Cloudy Cloudy
 Cold Cool Mild Hot

Is there any discharge occurring from construction site at time of inspection?
 Yes No

If yes, is discharge compliant with the Erosion and Sediment Control Regulation and VPDES Construction Permit Requirements?
 Yes No

If no, describe conditions of discharge: _____

ITEM #	ESC INSPECTION QUESTIONS	N/A ¹	YES ²	NO ³
1	Have stabilization activities been initiated on all disturbed areas that have reached final grade or that will remain dormant for more than 14 days?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Have stabilization activities been completed within 7 days of initiation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Have disposal/borrow and soil stockpiles areas been stabilized and/or protected with sediment trapping measures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Have perimeter controls been constructed as a first step prior to initiation of land disturbing activities (including clearing or grubbing)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Are perimeter and other erosion and sediment control structures and systems being maintained, inspected and repaired, as necessary, to ensure functionality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Have all land-disturbing activities occurred within the approved ESC plan area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Have earthen structures, such as dams, dikes, and diversions, been immediately stabilized upon installation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Have sediment basins and traps been constructed according to plans, specifications, and/or standards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Are all cut and fill slopes at final grade adequately stabilized?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Is concentrated water flowing through adequate slope drains, flumes, or other non-erodible conveyances on cut or fill slopes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Is stormwater runoff containing sediment or turbidity being properly treated prior to discharge?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Where water seeps from slope faces, has adequate drainage or erosion protection been provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Do all operational storm sewer and culvert inlets have inlet protection in accordance with plans, specifications, and/or standards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	Are constructed stormwater conveyance channels and ditches stabilized with appropriate channel lining and/or outlet protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	Is in-stream construction being conducted using measures to minimize channel impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	Are temporary stream crossings of non-erodible material installed at locations where construction equipment must cross?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Are all water quality permit requirements being adhered to?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Is re-stabilization of in-stream construction areas complete before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	Are utility trenches stabilized properly according to the specifications?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	Is effluent from dewatering operations being filtered (including in-stream structure dewatering)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	Are construction entrances installed at appropriate locations and being maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

QUESTIONS (CONTINUED)	N/A ¹	YES ²	NO ³
Is up at the end of each work day?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is needed been removed and have all such areas been re-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is site being adequately protected from accidental land	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is sedimentation from the project site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is under the VPDES construction permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is addressed within allowable/established time frames?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the record set of plans or in other appropriate SWPPP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is age being documented and included in the SWPPP in	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is 'PP General Information Sheet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
N (P2) INSPECTION QUESTIONS	N/A¹	YES²	NO³
Is sent on the site been identified in the SWPPP and	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is 'sign?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is rting and maintaining the pollution prevention practices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is rly identified in the approved Pollution Prevention Plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is to appropriate personnel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is iver or within secondary containment) and handled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is eing properly stored, handled, and disposed of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is debris?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is uring precipitation events and at the end of the day?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is m hydraulic hoses, vehicle/equipment maintenance and	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is m construction materials (e.g., from release oils and	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is i leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is installed leak-proof container or leak-proof settling basin?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is ined and utilized?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is yes prevented from leaving the site (including untreated	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is dpressed within allowable/established time frames?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MODIFICATION QUESTIONS	N/A¹	YES²	NO³
Is ed in accordance with the specifications and/or the	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is led to document SWPPP changes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is wPPPP being signed by the contractor and VDOT?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

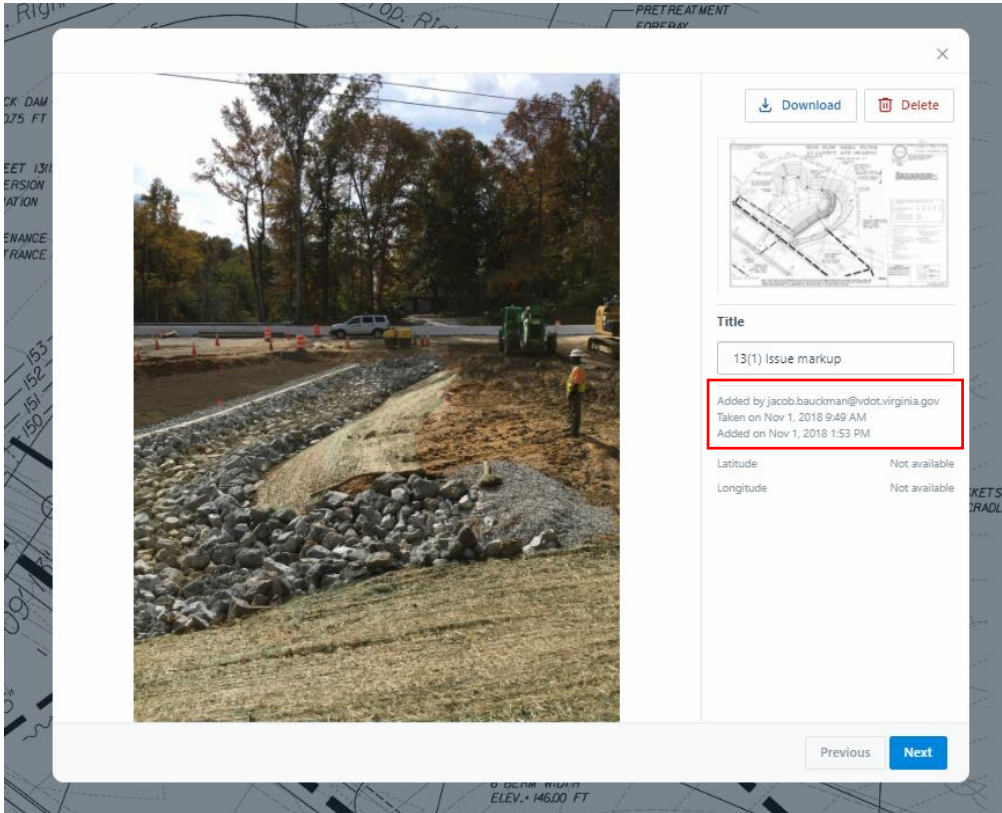
and permits pertaining to the question are being satisfied

with a system designed to assure that quantities reported in this document and that this document and all attachments were prepared in accordance with a system designed to assure that quantities reported in this document were properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Certified Contractor: See Note 2 on Sheet 4	MT Brown		15892	11/5/2020
	Name	Signature	ESCCC Certification Number	Date
Certified Inspector: See Note 3 on Sheet 4	Mike Brown		DIN0279	11/5/2020
	Name	Signature	DEO Certification Number	Date

Provide copies to 1.) the Contractor, 2.) the VDOT Project Records

86442 – Route 711 Widening/Bridge



Download Delete



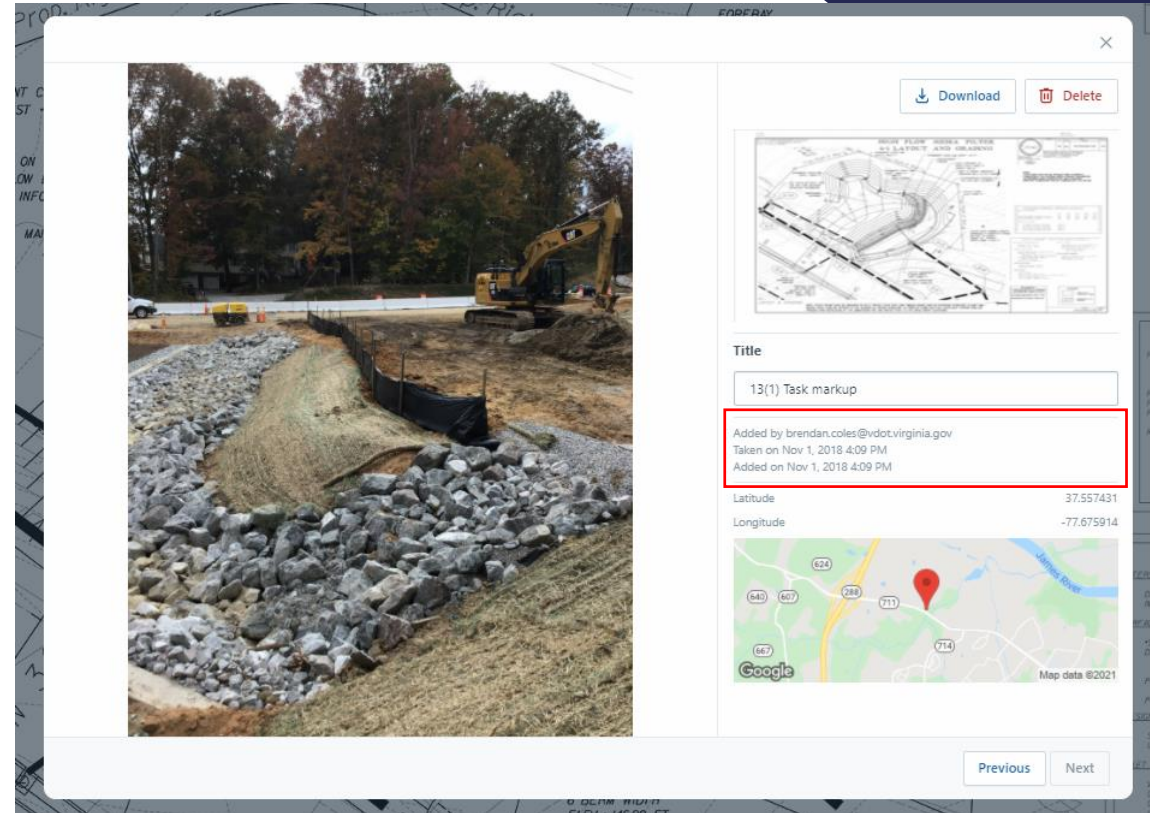
Title

13(1) Issue markup

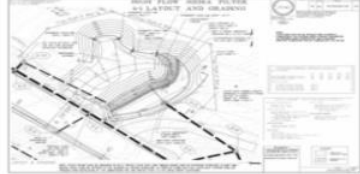
Added by jacob.bauctman@vdot.virginia.gov
Taken on Nov 1, 2018 9:49 AM
Added on Nov 1, 2018 1:53 PM

Latitude Not available
Longitude Not available

Previous Next



Download Delete




Title

13(1) Task markup

Added by brendan.coles@vdot.virginia.gov
Taken on Nov 1, 2018 4:09 PM
Added on Nov 1, 2018 4:09 PM

Latitude 37.557431
Longitude -77.675914



Google Map data ©2021

Previous Next

105535 – Chatham Bridge

105535 - Chatham Bridge
101 William Street, Fredericksburg, Virginia

PlanGrid Task Report - Nov 11, 2020

Prepared by Dakota Clifford

Nov 11, 2020

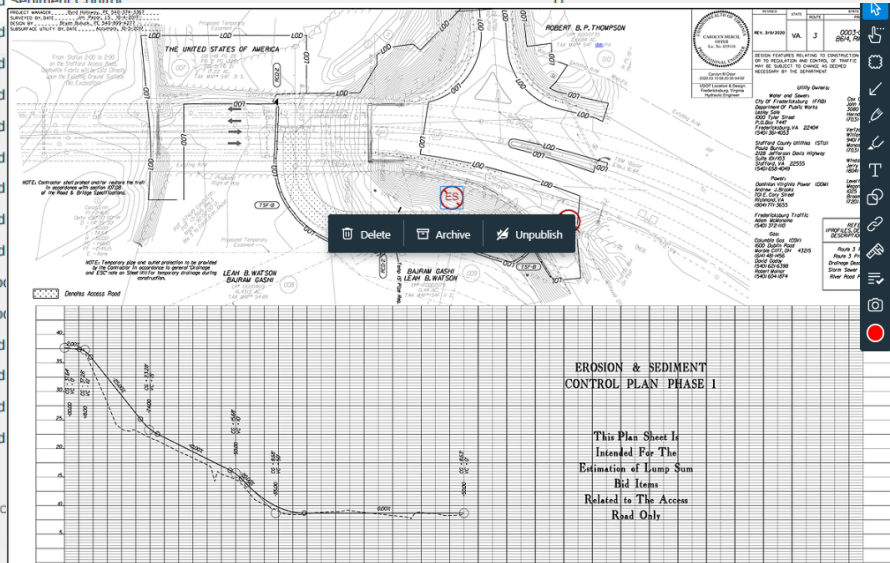
Description

27 tasks in this report.

Contents

- #100 Erosion and Sediment Control 3
- #99 Erosion and Sediment Control 6
- #98 Erosion and Sediment Control 8
- #97 Erosion and Sediment Control 10
- #96 Erosion and Sediment Control 11
- #95 Erosion and Sediment Control 11
- #94 Erosion and Sediment Control 11
- #93 Erosion and Sediment Control 11
- #80 Erosion and Sediment Control 11
- #78 Erosion and Sediment Control 11
- #76 Erosion and Sediment Control 11
- #62 Erosion and Sediment Control 11
- #61 Erosion and Sediment Control 11
- #60 SWPPP Document 11
- #59 SWPPP Document 11
- #52 Erosion and Sediment Control 11
- #51 Erosion and Sediment Control 11
- #50 Erosion and Sediment Control 11
- #49 Erosion and Sediment Control 11

Prepared by Dakota Clifford



Stormwater/E&S

Sheet: 2/(02A)

Root Cause: Select a root cause...

Description: It is recommended to apply stabilization measures to denuded sides of access road if grading is complete (ESC Min. Std. #1).

Photos and Videos: [Three small photo thumbnails showing construction sites with erosion control measures.]

+ Add

C-107 – PART II
(v. 08/15/17)

CONSTRUCTION RUNOFF CONTROL INSPECTION FORM (CRCIF) C-107 VDOT INSPECTION SHEET



Project Name/ID: Chatham Rehab UPC 105535
Contractor: JBF
Inspection Date: 9-15-20
(See Note 5 on Sheet 2)

ITEM #	INSPECTION QUESTIONS	N/A	YES	NO
1	Is a copy of the signed VPDES Construction Permit coverage letter in the SWPPP?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Is a copy of the VPDES General Permit For Discharges Of Stormwater from Construction Activities contained in the SWPPP?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Are copies of the LD-445 and LD-445E forms contained in the SWPPP?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Is a copy of the LD445A form completed and posted in accordance with the SWPPP General Information Sheet requirements?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Are all ESC and P2 inspections being performed, recorded and documented in accordance with the specifications?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Are corrective actions being identified, performed and documented in accordance with the specifications?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#76 Erosion and Sediment Control

Status: Closed

Watches: adam.travers@vdot.virginia.gov, bwiercinski@amteengineering.com, william.attkisson@vdot.virginia.gov

Type: Issue

Location: Washout Basin - Abutment B

Start Date: Aug 28, 2020

Sheet: 5C



List: Stormwater/E&S

Description: The mortar/concrete was liner is connected at the with duct tape. This is no proof basin as required Pollution Prevention Plan requirements of Sheet 2. Prior to use, the liner sh replaced with a seamless to ensure washout does to the underlying soil.

Photos



20200828_113955_photo
Michael Cartwright
Aug 28, 2020 10:39 AM

Contractor Construction Management

- Fieldwire as a Construction Management Platform
 - Plans, Tasks, Document Control
 - Single system across projects/staff
- Connectivity between Contractor, QA, QC, and Owner
 - Ensures everyone is on the most up-to-date plans
 - Real-time RFI, Plan Revisions, Shop Drawings
- Proactive Use of System
 - Not just corrective tasks, put planning work as well

Contractor Construction Management: RFIs and Regulatory Compliance

Request for Information

Route 28 - Centreville Rd Widening

Subject: E&S Phase 1A Wetland Safety Fence Revision

Number: 0002 Date: 2/16/2021

CSI Code: Author: Charles Cotterman - Shirley Contracting Company, LLC

Status: Responded

Cost Effect:

Discipline:

Reference:

Question: Through revis is shown in th 1A plan sheet protecting am

Proposed Solution:

Official Responders: Erik Dull - De

Date Responded: 2/23/2021

Response: Based on the in the JPA, C approximate i

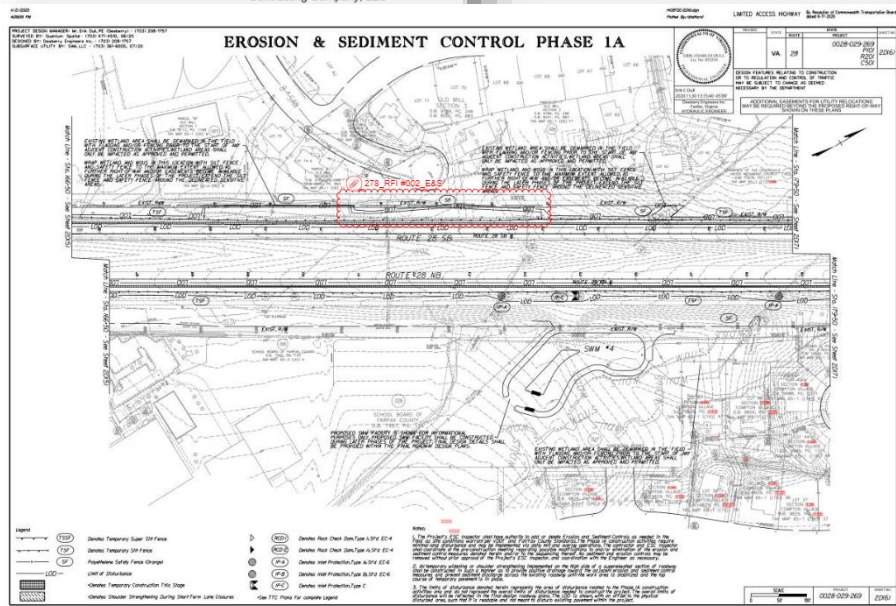
Location:

References

Name

278_90% PLANS_E&S - PHASE 1A_R

2021.01.15_Rt 28 Plates.pdf



powered by **kahua**



Route 28/ Centreville Rd Widening — 161278
7175 Centreville Rd, Manassas, VA 20111, USA



Environmental Inspection Report #12

Description: 4-6-21

Status: Working

Assignee: Daniel Devine (DDE)

Date: 04-06-2021

Site Information

Site Name	Permit Number	Date and Time of Inspection	Inspection Type	Last Measurable Rain (Amount/Date)	Inspector	Qualification w/ Number
Route 28 (Centreville Road) Widening	VPDES: VAR100954	06 Apr 06:56 AM	Regularly Scheduled (4 Day Frequency)	1 to 2 inches Wednesday	Daniel Devine	ESCCC #3-01134

Weather at Time of Inspection

Time	Condition	Temperature	Precipitation	Humidity	Wind
06 Apr 06:00 AM	☀ Clear	49°F	0.0"	78%	4 mph
06 Apr 12:00 PM	☀ Sunny	66°F	0.0"	33%	3 mph
06 Apr 04:00 PM	☀ Sunny	74°F	0.0"	32%	5 mph

Inspection Criteria

Is there any discharge occurring from the site at the time of inspection?

If yes to the above, is discharge compliant with the Erosion and Sediment Control Regulation and VPDES Construction Permit Requirements? If no, describe conditions of discharge.

Perimeter Controls

Earthen Structures

Sediment Basins or Traps

Storm Inlets

Construction Entrances

Project Outfalls

Stockpiles

Cut and Fill Slopes

Environmental Inspection Report #12

pg. 1

Created with Fieldwire on 04-06-2021

Contractor Construction Management: Punchlists

- Single, consolidated punchlists across disciplines
- Visibility into punchlist status
- Ability to assign punchlist items to specific crew

The screenshot displays a software interface for a task titled "#26 | @MST | GRADING ROLL PLOT" with the sub-task "Dress up pump station". The interface is divided into several sections:

- Task Attributes (highlighted in red):** A panel on the right side containing:
 - Status: Completed
 - Category: HERVIN
 - Assignee: Mike
- Messages:** A central feed of updates:
 - Mike Stankwich (5/6/20): "Changed priority to priority 3" and "Changed title to Dress up pump station". Includes a photo of a pump station.
 - Ethan Wolcott (5/6/20): "Create drainage in this area." Includes a photo of a construction site.
 - Completed 5/7/20 (5/7/20): "Completed task". Includes a photo of the completed site.
- Map:** A "GRADING ROLL PLOT" map showing site layout with fields labeled FIELD A, B, C, and D.
- Task Details:** A list of attributes at the bottom right:
 - Location: --
 - Start date: --
 - End date: --
 - Manpower: --
 - Cost: --
 - Tags: --
 - Watchers: EWO, MST
- Input:** A text box at the bottom left with the placeholder "Enter message here..." and a "Share" button.

eTicketing



eTicketing

- What is eTicketing?
 - Smart tickets not dumb tickets
- eTicketing Today
- eTicketing Next Steps

AT&T 2:53 PM 41%

< Ticket # 9737

Weighmaster	N/A
Gross	27.59
Tare	12.63
Net	14.96

Plant Temperature	N/A
Field Temperature	N/A
Temperature Scale	F
Waste	N/A
Notes	N/A

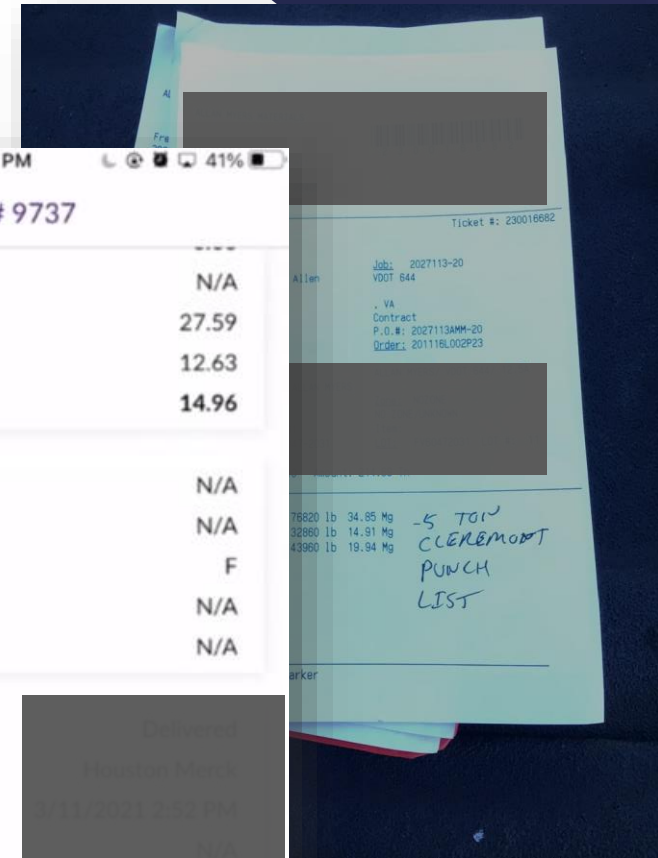
Status

Inspector Name

Updated At

Reason For Rejection

[Handwritten Signature]



Submittals and Document Management



Submittals and Document Management

- Submittals Objective
 - Cloud Based Solution
 - COTS
 - Easy access management
 - Simplicity of Platform
 - Accessibility to contractors at all levels
- Current Platforms
 - Projectwise
 - PlanGrid
 - Sharepoint Online

Document Control

SharePoint On-line (SPOL)

The screenshot shows a web browser window displaying a SharePoint Online site. The address bar shows the URL: <https://covgov.sharepoint.com/sites/TM-VDOT-BRI-MegaProjects>. The page title is "Bristol P3-Design Build Program" and it is a private group with 12 members. The page was published on 4/14/2021. The main content area features a large graphic with the text "BRISTOL A GOOD PARTNERSHIP" and "DESIGN BUILD".

BRISTOL
A GOOD PARTNERSHIP
DESIGN BUILD

Document Control

SharePoint On-line (SPOL)

Submittals

Project Documents

Environmental & Permitti...

Public Involvement

Project Dashboard

RFI

Reference Documents

Erosion and Sediment Co...

QA/QC Documents

NCR

Project Forms

FHWA

QA Diaries

NEPA Reevaluation

Tasks

ARC

Finance & Funding

QC Diaries

IA/IV Inspector Daily Re

Blasting Logs

Geotechnical

Railroad

Project Photos

Project Contacts

CADD

Hazardous Materials

Right-of-Way

Project Calendar

Coal Sales

IA/IV Documents

Safety

Project Email

Contracts & Agreements

Maps and Charts

Schedule

Phone Call Memo

Costs

Materials Notebook

Shop Drawings

Contract Price Tracker

CTB

Meetings

Survey

Design - Roadway

Mining & Minerals

TEMP

Design - Structures

Monthly Reports

Utilities

Design Waivers and Exce...

PCO/CO



OE Working Docs

Submittals Management

SharePoint On-line (SPOL)

+ New ▼  Page details

Submittals

+ New ▼  Share  Export to Excel

> Submittal No. ▼ Submitted Date ▼ Category ▼

> ████████████████████



> BIC : VDOT (4)

+ New ▼  Page details

Published 7/1/2020  Edit

Submittals

[See all](#)

+ New ▼  Share  Export to Excel

≡ BIC ▼ 

▼ Submittal No. ▼	▼ Submitted Date ▼	▼ Category ▼	▼ Title ▼	▼ Review Cycle No. ▼	▼ Date Due ▼	▼ Issue Status ▼
▼ BIC : Bizzack (9)						
478	12/19/2019	Plans - Misc	Water and Sewer Plan Submittal	3	12/29/2019	Revise/Resubmit
496	1/21/2020	Contracts Misc Submittals	Limited Notice to Proceed No. 2, ...	0 (Initial Submittal)	2/11/2020	Revise/Resubmit
514	2/20/2020	Environmental Permitting	DEQ 01-29-2020 Inspection Resp...	0 (Initial Submittal)	3/12/2020	Revise/Resubmit
673	12/14/2020	Contracts Misc Submittals	LNTP for Surface ROW - WP3, Ad...	0 (Initial Submittal)	1/4/2021	Revise/Resubmit
690	2/8/2021	Monthly Progress Reports	January 2021 Monthly Report (53)	0 (Initial Submittal)	3/1/2021	Revise/Resubmit

RFI Management

SharePoint On-line (SPOL)

RFI

[See all](#)

[+](#) New [Edit in grid view](#) [Share](#) [Export to Excel](#)

[Open RFIs](#) [i](#)

RFI Number	RFI Title	Date	Date Due	RFI Status
039	RFI 039 - Box Culve...	3/16/2021	4/6/2021	Open
037	RFI 037 - Rt. 604 sl...	3/3/2021	3/24/2021	Open

NCR Management

SharePoint On-line (SPOL)

+ New

Edit in grid view

Share

Export to Excel

Power Apps

Automate

...

All Items



NCR

Attachments	NCR Title	Issue	Response	Date Created	Response Due	Date Closed
	NCR No. 01 - ROW	During the evaluation of RFI 006 & 007, the Department learned that property for Parcels 001 and 003 was	Right of Way Plan Revision No. 7 was completed to revise the property acquisition limits to match what	12/2/2019	12/5/2019	5/13/2020
	NCR No. 02 - Traffic Control	Traffic Control Operations *NCR 02 has been attached for reference.	Contractor responded to NCR 02 with a Recovery Plan and a Corrective Action Plan. The NCR has been	1/31/2020	2/3/2020	2/3/2020
	NCR No. 03 - Leaking Temporary Sediment ...	Leaking Temporary Sediment Basins *NCR has been attached for reference.	Contractor's Corrective Action Plan has been attached.	3/25/2020	3/28/2020	5/19/2020
	NCR No. 04 - Communication	On Thursday, May 7, 2020 the DB detonated a controlled blast along Route 604. Due to the		5/21/2020	5/24/2020	7/7/2020

Contractor Submittal Management

- Use of Kahua Platform
 - Single System
 - Easy navigation between projects
 - Used with localities without an existing program or standard platform
 - Increased Transparency into process/ ball-in-court

The screenshot displays a cloud storage interface with a folder tree on the left and a detailed file index on the right. The folder tree shows a hierarchy starting with '161278 Shared Access Folders', including subfolders for 'QC Upload', 'Contract Documents', 'Project Meeting Records', 'Scope Validation', 'Financial', 'Schedules', 'Design Documents_Submittals', 'Environmental_Permits', 'Right of Way', 'Utilities', 'Construction (General)', 'Safety', 'QA-QC', 'Material Notebook', and 'DBE_EEO Documentation'. The file index table on the right, titled 'Attachment 2.16 Design Build Project - File Index', lists various documents and their sub-items, such as 'Contract Documents', 'Correspondence Files', 'Project Meeting Records', 'Scope Validation', 'Financial', 'Schedules', 'Design Documents/Submittals', 'Environmental/Permits', 'Close-Out & Acceptance', 'Right Of Way', 'Construction (General)', 'Quality Assurance / Quality Control (QA/QC)', and 'Materials Notebook'. A legend at the bottom explains symbols like * for required folders, ** for associated documentation, and *** for subfolders.

Attachment 2.16 Design Build Project - File Index	
1. Contract Documents	8.5 Disposal, Borrow Pit, Or Haul Road Agreement/Approval* 8.6 Others (Noise Variance, Etc.)*
1.1 Contract	
1.2 NTP Letter	
1.3 Start/Completion Date (C-5)	
1.4 Subcontractor Data - Sublets (C-31)	
1.5 Change Orders*	
1.6 Stop Work Orders*	
1.7 Contract Change Directives*	
2. Correspondence Files	
2.1 Correspondence Log	
2.2 Contact Info/Email Distribution List	
2.3 Miscellaneous	
3. Project Meeting Records	
3.1 Kickoff Meeting	
3.2 Design Progress Meetings	
3.3 Construction Progress Meetings	
3.4 Pardon Our Dust	
3.5 Stakeholder/Public Meetings*	
4. Scope Validation	
4.1 Issue Tracking Log	
4.2 Scope Validation Documentation	
5. Financial	
5.1 Monthly Pay Applications (including Adjustments & Stored Materials)	
5.2 Financial Audits	
5.3 Semi-Final Estimate	
6. Schedules	
6.1 Preliminary Schedule	
6.2 Baseline Schedule/Narrative	
6.3 Schedule Update (including Progress Earnings Schedule (C-13c), Schedule Narrative, and Monthly Progress Report)	
7. Design Documents/Submittals**	
7.1 Submittal Log	
7.2 Plans Submittals*** (including roadway, bridges, traffic signals, lighting, sound barriers, ITS, etc.)	
7.3 Drainage Computations	
7.4 Geotechnical Report	
7.5 Traffic Analyses (forecasts, operations, TMP, etc.)***	
7.6 Released for Construction Plans (including revisions)	
7.7 Shop Drawings	
7.8 Design Waivers/Exceptions*	
8. Environmental/Permits	
8.1 VPDES	
8.2 SWPPP	
8.3 Copies of Certifications (DCR & DEQ)	
8.4 C-107s	
9. Right Of Way	
9.1 ROW Acquisition Plan	
9.2 Parcel Documentation (including Property Owner Notification Letters, Appraisals)***	
9.3 Authorization to Commence Acquisition	
9.4 Recorded Documents/ Condemnations	
9.5 RW-24 Reports	
10. Utilities	
10.1 Utility Status Report	
10.2 Utility Relocation Plans*	
11. Construction (General)	
11.1 Construction Authorization	
11.2 Daily Work Reports (DWRS)	
11.2.1 QC	
11.2.2 QA	
11.3 RFI Log	
11.4 Photographs	
11.5 Non-Conformance Log and Notices*	
11.6 Contractor's NOI/Claims*	
12. Safety	
12.1 Emergency Contact List	
12.2 Safety Officer & WZC Letter	
12.3 Work Zone Safety Reports	
12.4 Accident/Incident Reports & Claims*	
13. Quality Assurance / Quality Control (QA/QC)	
13.1 QA/QC Plan	
13.2 Preparatory Inspection Meetings (including Witness and Hold Points)	
13.3 Licenses & Certifications (Testing)	
13.4 Contractor Performance Evaluations	
13.5 CQIP/QAT Reviews*	
14. Materials Notebook	
14.1 Source Of Material (C-25)	
14.2 Material Delivery Invoices (including Buy America Certification)	
14.3 Test Reports	
14.3.1 QC	
14.3.2 QA	
14.4 Concrete Tickets With TI-28a	
14.5 Stone Tickets (TI-102a)	
14.6 List of items approved by visual inspection*	
15. DBE/ EEO Documentation	
16. Close-Out & Acceptance	
16.1 Punch-List	
16.2 As-Built Documentation***	
16.3 Warranties, Guarantees & Insurance	
16.4 Final Acceptance Letter	

* Create these folders only as needed.
 ** Include documentation associated with the plan submittals (All plans will be uploaded only to FALCON).
 *** Create subfolders as needed.

eConstruction: Wrap-up





eConstruction Wrap-up