Approach and Benefits of the Pre-Construction Site Inspection

James Cook, PG & Shelley Gordon, REM

09.23.26



TTL

AGENDA

Overview of Construction General Permit and Compliance

Pre-Construction Site Inspections

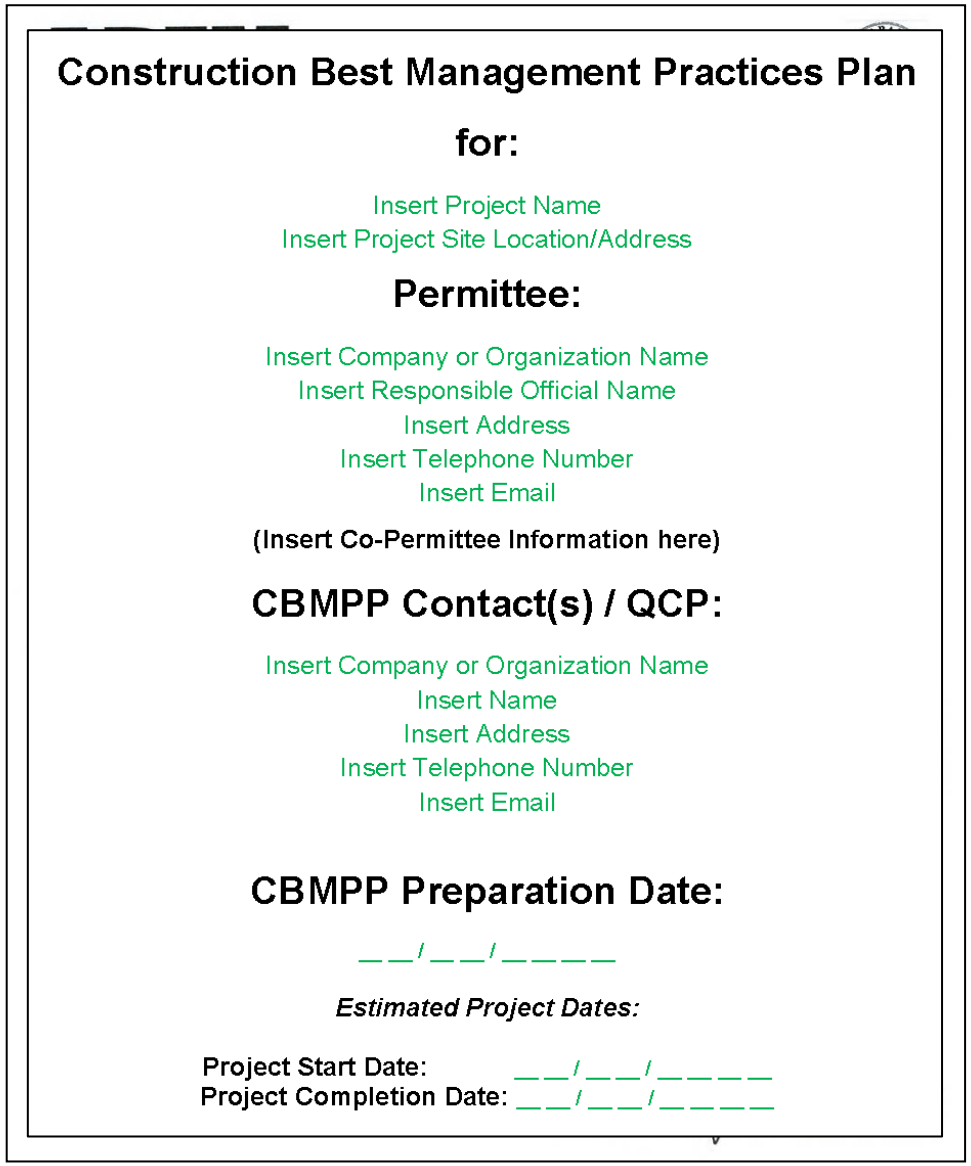
Requirements

Benefits

Documentation

Methodology

ADEM CONSTRUCTION STORMWATER PERMIT



Construction Best Management Practices Plan

for:

Insert Project Name
Insert Project Site Location/Address

Permittee:

Insert Company or Organization Name
Insert Responsible Official Name
Insert Address
Insert Telephone Number
Insert Email

(Insert Co-Permittee Information here)

CBMPP Contact(s) / QCP:

Insert Company or Organization Name
Insert Name
Insert Address
Insert Telephone Number
Insert Email

CBMPP Preparation Date:

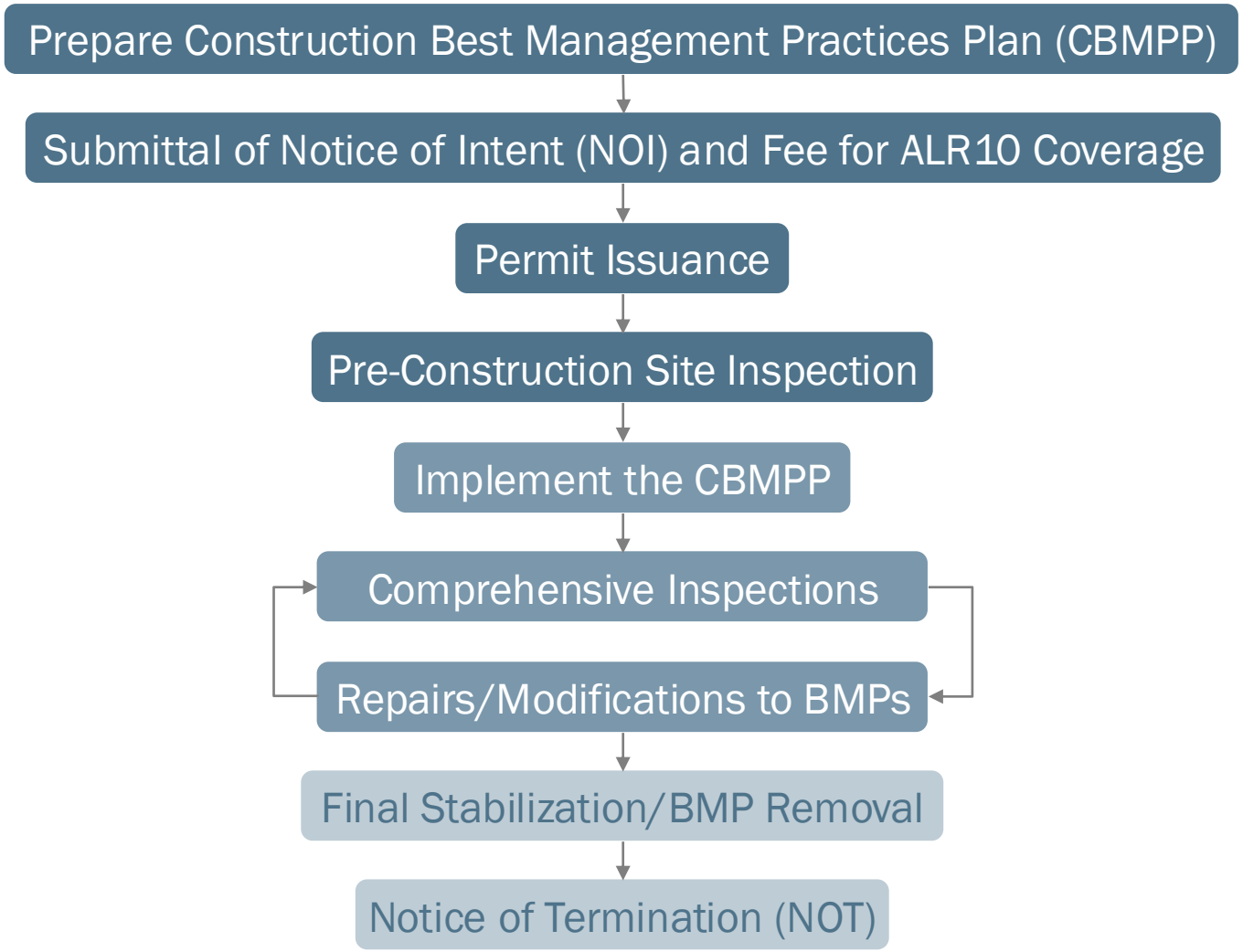
__ __/__ __/_ _ _ _

Estimated Project Dates:

Project Start Date: __ __/__ __/_ _ _ _
Project Completion Date: __ __/__ __/_ _ _ _

- Coverage under ADEM NPDES Construction General Permit ALR100000 (ALR10) is required for construction land disturbances of one acre or more
- Construction Best Management Practices Plan (CBMPP) is intended to protect applicable water quality standards throughout construction until termination of the permit

COMPLIANCE OVERVIEW



WHAT?

TTL

PRE-CONSTRUCTION SITE INSPECTION



Requirements found in ALR10, Part III, J.,1

- Required for all permitted projects – linear and non-linear
- Conducted by the Qualified Credentialed Professional (QCP), or by a qualified person under the direct supervision of a QCP

Occurs <u>PRIOR</u> to the placement of any BMPs or the commencement of land disturbing activities.

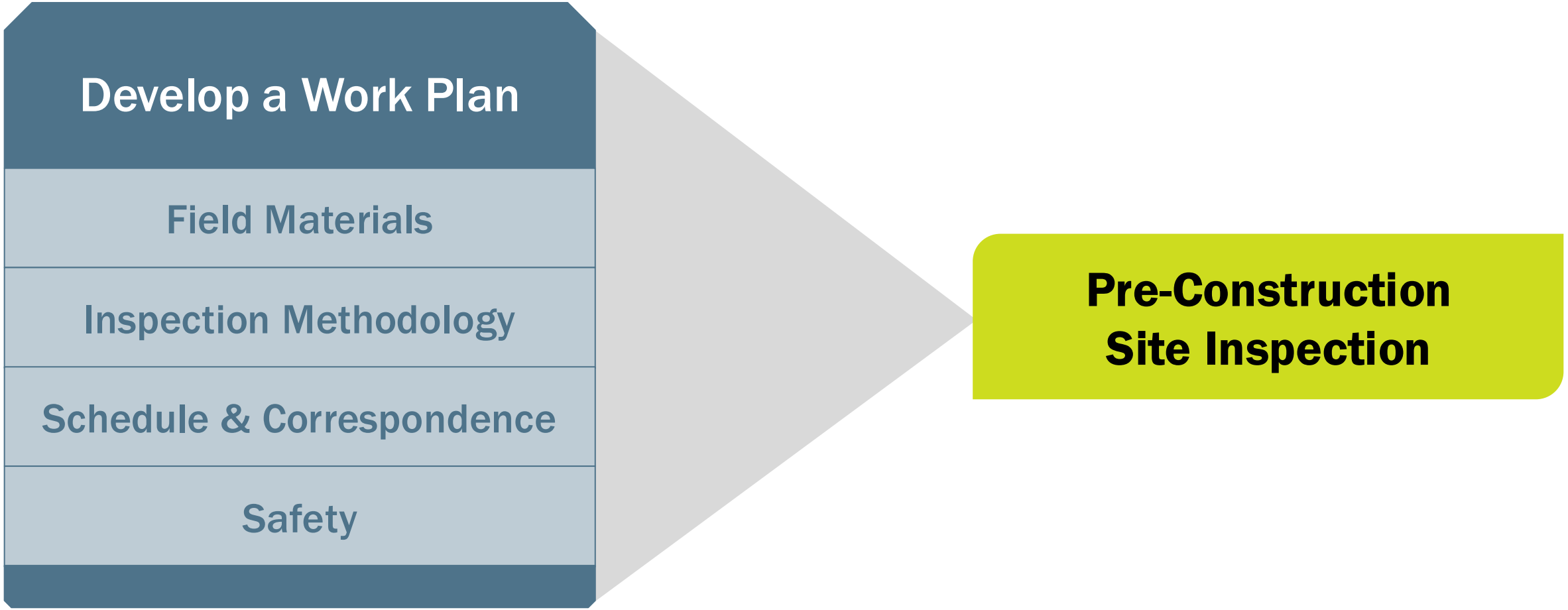
TTL

PRE-CONSTRUCTION SITE INSPECTION

- Complete and comprehensive inspection of the entire construction site including:
  - Areas of land disturbance and storage
  - Affected ditches and other stormwater conveyances
  - Outfalls
  - Receiving waters and stream banks to determine if there are pre-existing areas of concern



APPROACH


Develop a Work Plan
Field Materials
Inspection Methodology
Schedule & Correspondence
Safety
Pre-Construction
Site Inspection

WHY?

TTL

BENEFITS

- Preconstruction photos of the entire project
- Confirm permitted outfalls
- Baseline assessment of watershed health
  - Sediment, turbidity
  - Bank stabilization concerns
- Prior clearing operations & land disturbance
- Areas of stressed vegetation



HOW?

TTL

ADEM CSW INSPECTION FORM

- Documented and made available to ADEM upon request
- Include dated electronic photographic documentation of all areas
- Maintain with all permit documents



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES CONSTRUCTION STORMWATER INSPECTION REPORT AND BMP CERTIFICATION

Instructions: Please complete all questions on the form responding "N/A" only where appropriate. This form should be completed by a QCI or QCP.

Permittee Name:	Permit Number:	County:
Site Name:	Inspection Entry Date & Time:	Inspection Exit Date & Time:

Type of Inspection (Select all that apply):
☐ Monthly
☐ Qualifying Rain Event
☐ Dewatering
☐ Follow up on Corrective Action
☐ Suspension/Resumption of Monitoring
☐ Final/Termination
☐ Other

Phase of Construction (Select all that apply):
☐ Clearing/Demo/Grading
☐ Infrastructure/Storm/Roads
☐ Vertical Construction/Building
☐ Utilities
☐ Final Stabilization/Termination
☐ Other

Last Rain Event		Current Weather Conditions	Rain Gauge
Date	Measurement (Inches)	☐ Clear ☐ Cloudy ☐ Rain or recent rain ☐ Other:	☐ Onsite ☐ Offsite - Reference gauge location:

Priority Site:	☐ Yes ☐ No If yes, date of last CBMPP Evaluation:	Current Approximate Disturbed Acreage:	

A. Evaluation of General Site Conditions

For all "No" responses, please describe deficiencies that need to be addressed and/or corrective actions taken to address issues previously observed in the *Inspection Comments* section below. (Attach additional sheet if necessary)

Attach dated photo documentation of the facility, with attention to issues that need to be addressed and/or corrective actions that have been taken to address previously documented issues.

1. Is the Facility ID properly displayed?	☐ Yes ☐ No
2. Are general housekeeping, solid wastes, and fuel/chemical/material storage being properly managed?	☐ Yes ☐ No
3. Were all permitted outfalls inspected? If no, please provide explanation. (e.g., not constructed)	☐ Yes ☐ No
4. Have areas that have not been active for 13 days or more been temporarily or permanently stabilized?	☐ Yes ☐ No
5. If applicable, are buffer zones properly identified and properly maintained?	☐N/A ☐ Yes ☐ No
6. Have all previously documented deficiencies been corrected?	☐N/A ☐ Yes ☐ No

B. Evaluation of Site BMPs

Are the following BMPs properly implemented and maintained?

This list is not meant to be all inclusive, however, the most common BMPs utilized on construction sites are listed below. N/A is an appropriate response for BMPs not currently implemented at the site.

For all "No" responses, please describe deficiencies that need to be addressed and/or corrective actions taken to address issues previously observed in the *Inspection Comments* section below.(attach additional sheet(s) if necessary)

Construction Exit Pad (CEP)	☐ N/A ☐ Yes ☐ No	Dust Control (DC)	☐ N/A ☐ Yes ☐ No
Erosion Control Blankets (ECB)	☐ N/A ☐ Yes ☐ No	Mulch Application (MU)	☐ N/A ☐ Yes ☐ No
Permanent Seeding (PS)	☐ N/A ☐ Yes ☐ No	Temporary Seeding (TS)	☐ N/A ☐ Yes ☐ No
Check Dams (CD)	☐ N/A ☐ Yes ☐ No	Diversion (DV)	☐ N/A ☐ Yes ☐ No
Grass Swale (GS)	☐ N/A ☐ Yes ☐ No	Lined Swale (LS)	☐ N/A ☐ Yes ☐ No
Brush/Fabric Barrier (BFB)	☐ N/A ☐ Yes ☐ No	Filter Strip	☐ N/A ☐ Yes ☐ No
Flocculant	☐ N/A ☐ Yes ☐ No	Inlet Protection	☐ N/A ☐ Yes ☐ No
Sediment Barrier/Silt Fence (SB)	☐ N/A ☐ Yes ☐ No	Sediment Basin (SBN)	☐ N/A ☐ Yes ☐ No
Other BMPs evaluated that are not listed above(describe):			
Are additional BMPs needed in addition to those already present onsite? ☐ N/A ☐ Yes ☐ No If yes, please provide details in *Inspection Comments* section below.			

Page 1 of 3

INSPECTION FORM

Page 1 - Site Info

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES CONSTRUCTION STORMWATER INSPECTION REPORT AND BMP CERTIFICATION

Instructions: Please complete all questions on the form responding "N/A" only where appropriate. This form should be completed by a QCI or QCP.

Permittee Name:	**Permit Number:**	**County:**
Site Name:	**Inspection Entry Date & Time:**	**Inspection Exit Date & Time:**

Type of Inspection (Select all that apply):

- ☐ Monthly
- ☐ Qualifying Rain Event
- ☐ Dewatering
- ☐ Follow up on Corrective Action
- ☐ Suspension/Resumption of Monitoring
- ☐ Final/Termination
- ☒ Other **Pre-Construction Site Inspection**

Phase of Construction (Select all that apply):

- ☐ Clearing/Demo/Grading
- ☐ Infrastructure/Storm/Roads
- ☐ Vertical Construction/Building
- ☐ Utilities
- ☐ Final Stabilization/Termination
- ☒ Other **Pre-Construction**

Last Rain Event		**Current Weather Conditions**	**Rain Gauge**
Date	**Measurement (inches)**	☐ Clear ☐ Cloudy ☐ Rain or recent rain ☐ Other:	☐ Onsite ☒ Offsite - Reference gauge location: **Local Weather Data**

Priority Site:	☐ Yes ☐ No If yes, date of last CBMPP Evaluation:	**Current Approximate Disturbed Acreage:**	0

TTL

INSPECTION FORM

Page 1 - Part A

A. Evaluation of General Site Conditions

For all "No" responses, please describe deficiencies that need to be addressed and/or corrective actions taken to address issues previously observed in the *Inspection Comments* section below. (Attach additional sheet if necessary)

Attach dated photo documentation of the facility, with attention to issues that need to be addressed and/or corrective actions that have been taken to address previously documented issues.

1. Is the Facility ID properly displayed?	☐ Yes ☒ No
2. Are general housekeeping, solid wastes, and fuel/chemical/material storage being properly managed?	☒ Yes ☐ No
3. Were all permitted outfalls inspected? If no, please provide explanation. (e.g., not constructed)	☐ Yes ☐ No
4. Have areas that have not been active for 13 days or more been temporarily or permanently stabilized?	☒ Yes ☐ No
5. If applicable, are buffer zones properly identified and properly maintained?	☒ N/A ☐ Yes ☐ No
6. Have all previously documented deficiencies been corrected?	☒ N/A ☐ Yes ☐ No

TTL

INSPECTION FORM

Page 1 - Part B

B. Evaluation of Site BMPs

Are the following BMPs properly implemented and maintained?

This list is not meant to be all inclusive, however, the most common BMPs utilized on construction sites are listed below. N/A is an appropriate response for BMPs not currently implemented at the site.

For all "No" responses, please describe deficiencies that need to be addressed and/or corrective actions taken to address issues previously observed in the *Inspection Comments* section below.(attach additional sheet(s) if necessary)

Construction Exit Pad (CEP)	[X] N/A [ ] Yes [ ] No	Dust Control (DC)	[X] N/A [ ] Yes [ ] No
Erosion Control Blankets (ECB)	[X] N/A [ ] Yes [ ] No	Mulch Application (MU)	[X] N/A [ ] Yes [ ] No
Permanent Seeding (PS)	[X] N/A [ ] Yes [ ] No	Temporary Seeding (TS)	[X] N/A [ ] Yes [ ] No
Check Dams (CD)	[X] N/A [ ] Yes [ ] No	Diversion (DV)	[X] N/A [ ] Yes [ ] No
Grass Swale (GS)	[X] N/A [ ] Yes [ ] No	Lined Swale (LS)	[X] N/A [ ] Yes [ ] No
Brush/Fabric Barrier (BFB)	[X] N/A [ ] Yes [ ] No	Filter Strip	[X] N/A [ ] Yes [ ] No
Flocculant	[X] N/A [ ] Yes [ ] No	Inlet Protection	[X] N/A [ ] Yes [ ] No
Sediment Barrier/Silt Fence (SB)	[X] N/A [ ] Yes [ ] No	Sediment Basin (SBN)	[X] N/A [ ] Yes [ ] No
Other BMPs evaluated that are not listed above(describe):			
Are additional BMPs needed in addition to those already present onsite? If yes, please provide details in *Inspection Comments* section below.			[X] N/A [ ] Yes [ ] No

TTL

INSPECTION FORM

Page 2

Inspection Comments -Provide brief synopsis of inspection, deficiencies noted during this inspection, and/or deficiencies corrected from previous inspection. Provide any additional information that may not be identified in sections above. Attach additional sheets if necessary.

Pre-construction site inspection. No BMPs or disturbance were observed during inspection. See attached photo pages.

C. Dewatering Inspection- ☒ N/A

Inspection is only required if the dewatering activity results in an offsite discharge. If the dewatering discharge is routed to an onsite collection area and allowed to evaporate or infiltrate into the soil (and groundwater concerns do not exist), or is used onsite for irrigation, dust control, or other onsite construction-related purposes, then an inspection is not required. Attach dated photo documentation of the dewatering prior to treatment, dewatering control(s), dewatering discharge after final treatment, and point of discharge.

Permitted Outfall	Estimated Rate of Discharge (gallons per day)	Times of Dewatering Discharge (Day of Inspection): Start Time	End Time

Visual observations of discharge whether or not any indications of pollutant discharge were observed at the point of discharge or other obvious indicators of stormwater pollution:

Turbid Discharge	☐ Yes ☐ No	Noticeable odor	☐ Yes ☐ No	Foam	☐ Yes ☐ No
Sheen on the water surface	☐ Yes ☐ No	Floating solids	☐ Yes ☐ No	Visible suspended sediment	☐ Yes ☐ No

Have discharges from dewatering activities been managed by appropriate controls? ☐ Yes ☐ No

If no, describe measure(s) to be implemented to address deficiencies:

PHOTO PAGES

TTL

NPDES Construction Stormwater BMP Inspection Report

Site Name: Example Site

Inspection Type: Other - Pre Construction

Photos taken: 8/1/2026



Photograph 1:
View of project area from entrance. View to the west.



Photograph 2:
View of project area. View to the south.

TTL

NPDES Construction Stormwater BMP Inspection Report

Site Name: Example Site

Inspection Type: Other - Pre Construction

Photos taken: 8/1/2026



Photograph 3:
View of project area. View to the north.



Photograph 4:
View of project area. View to the northwest.

TTL

HYBRID APPROACH



- In areas where the site is easily navigable or near existing roads:
  - Use traditional field method
- In area where the site does **NOT** cross existing roads and the permitted area is heavily wooded or inaccessible:
  - Use Drone (with proper FAA license)

SAME LOCATION. DIFFERENT PERSPECTIVE.

WHAT YOU SEE ON THE GROUND:

- Limited field of view
- Obstructions (vegetation, terrain, structures)
- Hard to see the big picture
- Details can be missed
- Only see what's in front of you



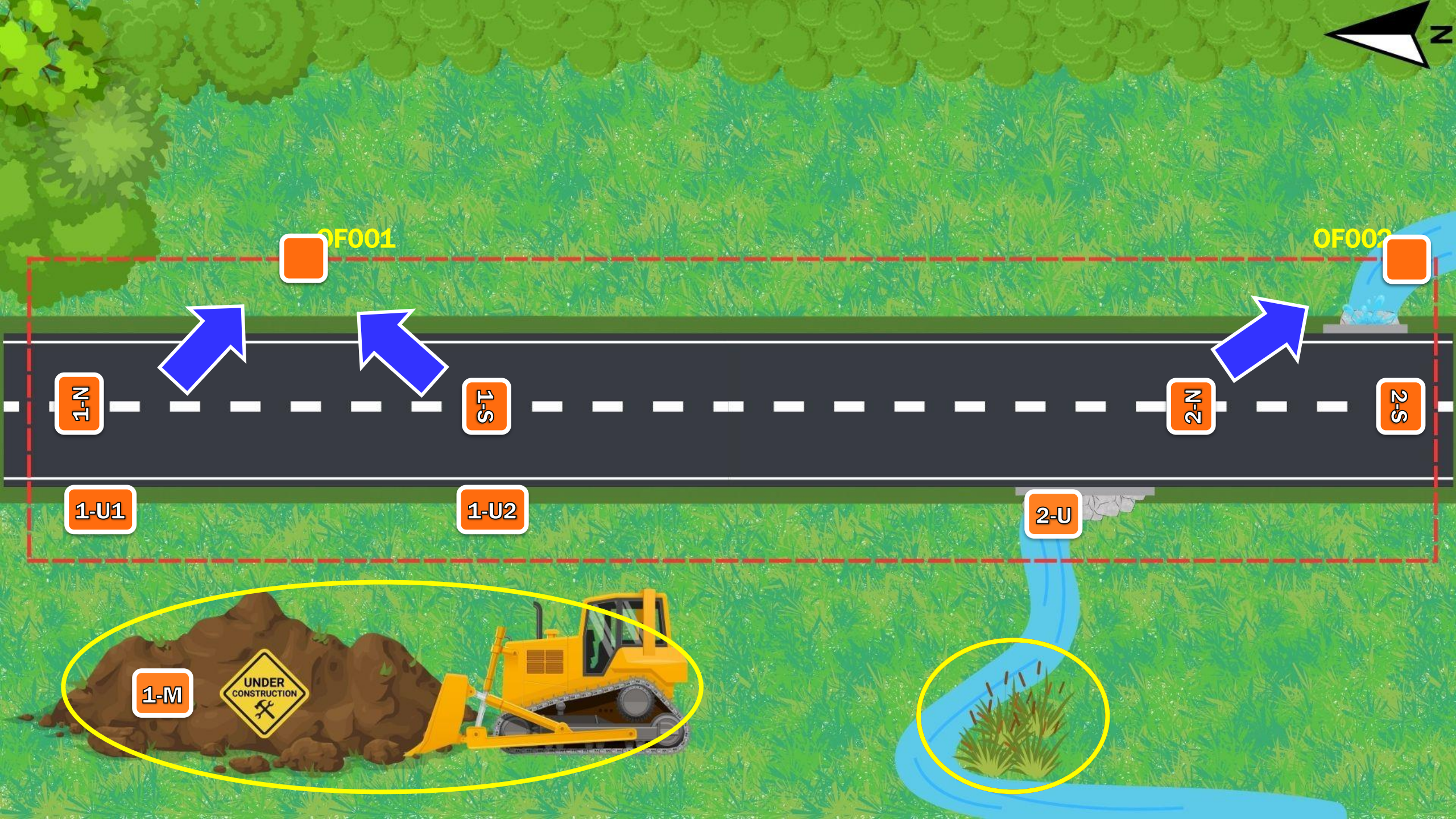


WHAT A DRONE CAN SEE:

- Wide, overhead view
- Shows the full site and surroundings
- Identifies issues that aren't visible from the ground
- Provides better context and documentation

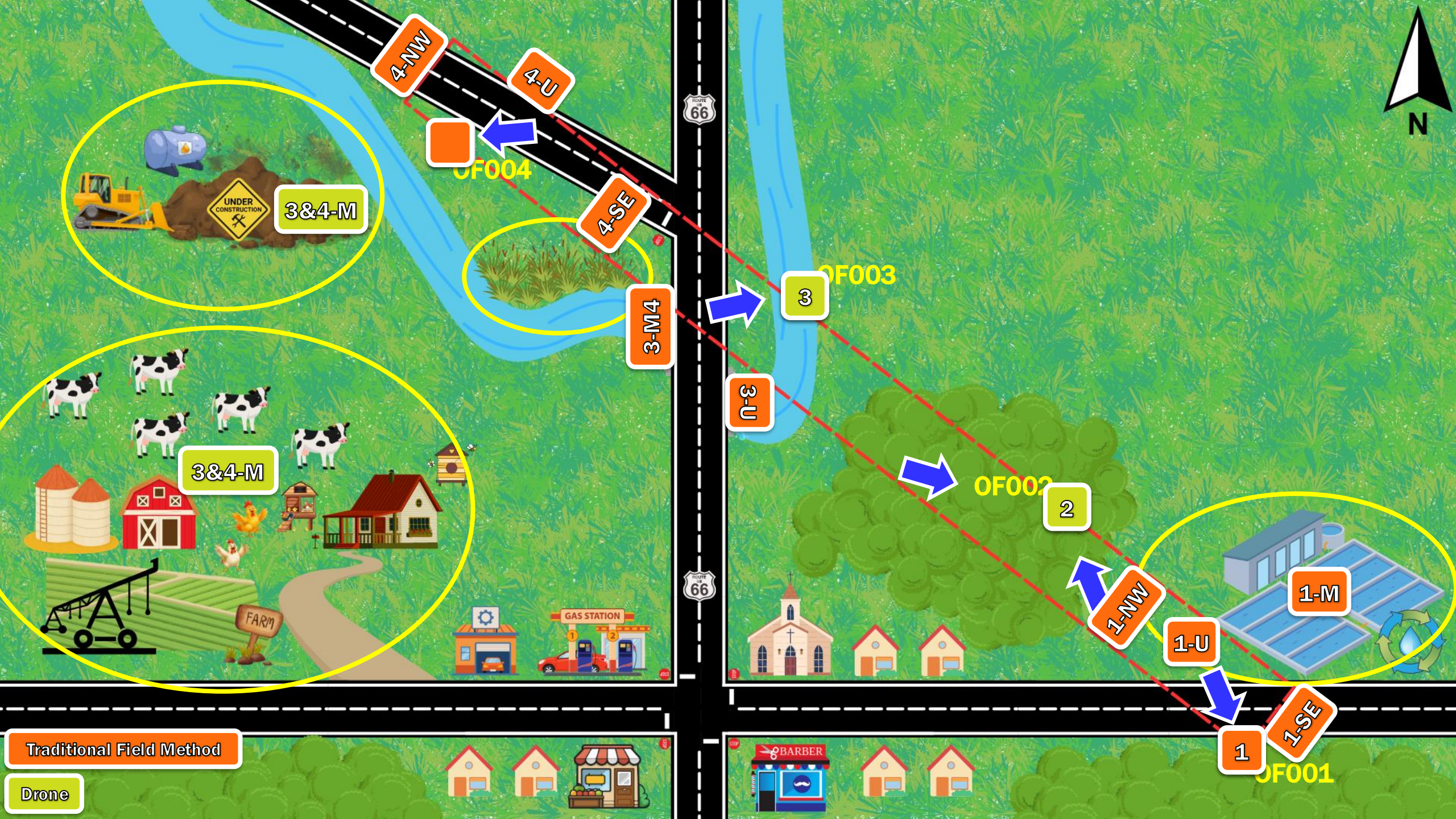
LINEAR SITE

Existing Corridor

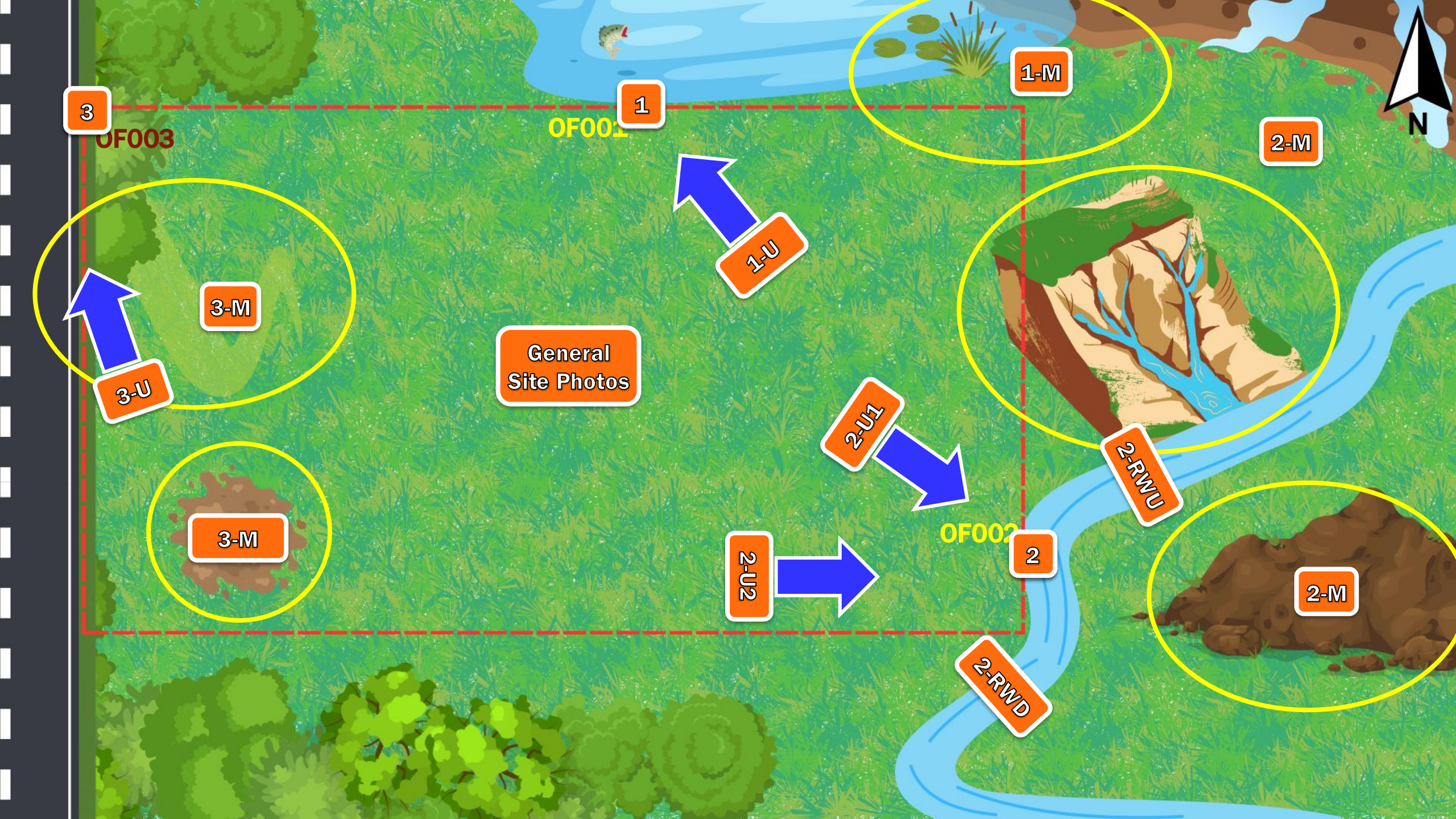

N
OF001
OF002
1-N
1-S
2-N
2-S
1-U1
1-U2
2-U
1-M
UNDER
CONSTRUCTION

LINEAR SITE

New Corridor


4-NW
4-U
OF004
4-SE
3&4-M
3-M4
3
OF003
3-U
3&4-M
OF002
2
1-NW
1-U
1-M
1-SE
1
OF001
N
66
66
UNDER CONSTRUCTION
FARM
GAS STATION
BARBER
Traditional Field Method
Drone

NON-LINEAR SITE


3
OF003
1
OF001
1-M
2-M
N
1-U
3-M
3-U
General
Site Photos
2-U1
2-RWU
3-M
2-U2
OF002
2
2-M
2-RWD

Q&A

James Cook, PG
205-345-0816
james.cook@ttlusa.com

Shelley Gordon, REM
205-345-0816
sgordon@ttlusa.com