

EAST APRON EXPANSION AND REHABILITATION FOR THE MONROE - WALTON COUNTY AIRPORT MONROE, GEORGIA

GDOT PROJECT NO. APXXX-XXXX-XX(XXX) WALTON COUNTY

OWNER

CITY OF MONROE GA
215 N. BROAD ST
MONROE, GA 30655
770-267-3429

AIRPORT CONTACT

CHRIS BAILEY
CITY OF MONROE
215 N. BROAD ST.
MONROE GA 30655

INDEX OF DRAWINGS

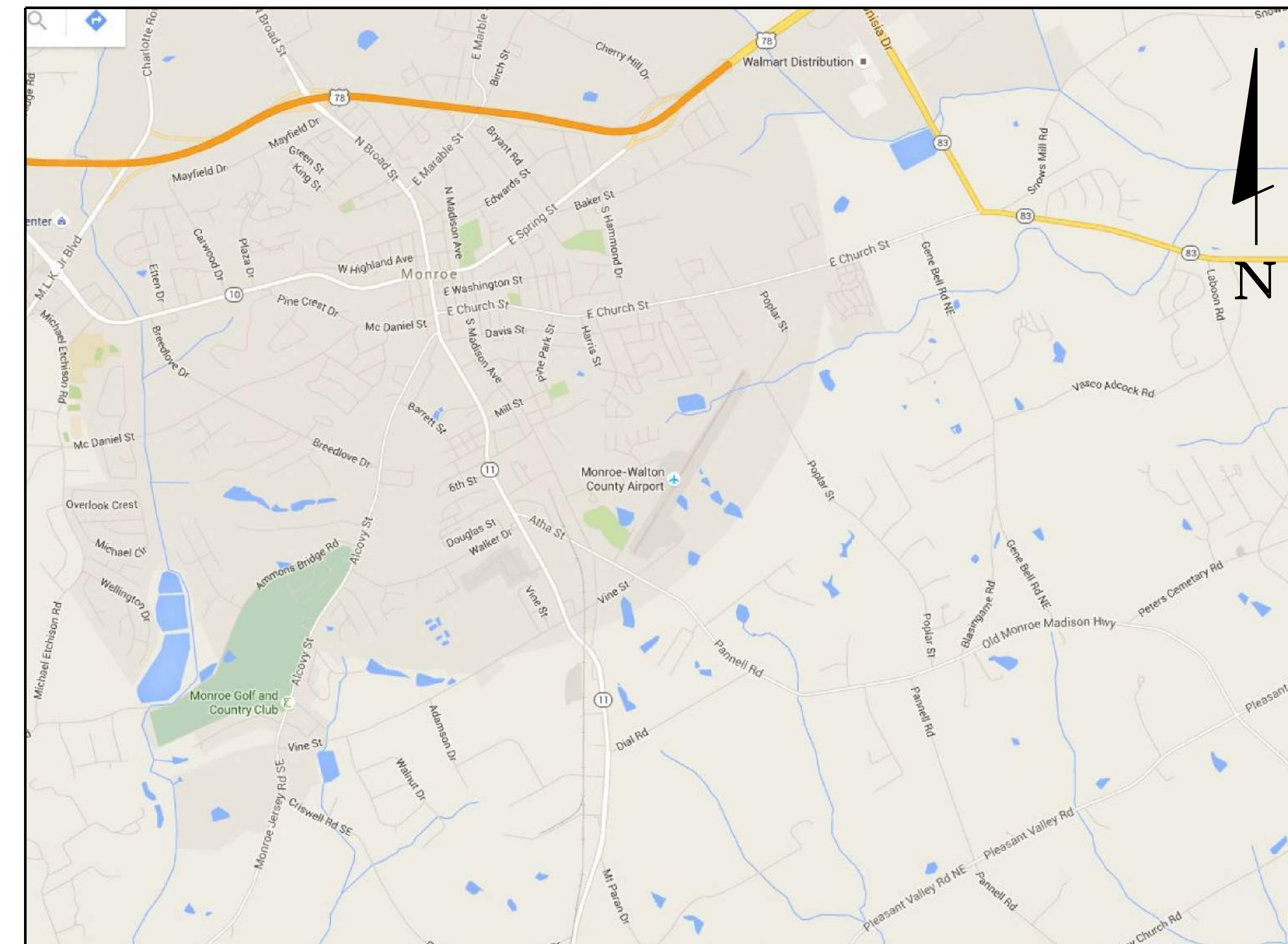
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AIRPORT
LOCATION

LOCATION MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

EAST APRON EXPANSION AND REHABILITATION
 FOR THE
MONROE - WALTON COUNTY AIRPORT
 MONROE, GEORGIA
PROJECT NO. APXXX-XXXX-XX(XXX) WALTON COUNTY



GENERAL LAYOUT AND GENERAL NOTES

**PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT**
MONROE, GEORGIA



LEGEND

- - - HAUL ROUTE/STAGING AREA
- RSA — RUNWAY SAFETY AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- ▨ EAST APRON EXPANSION

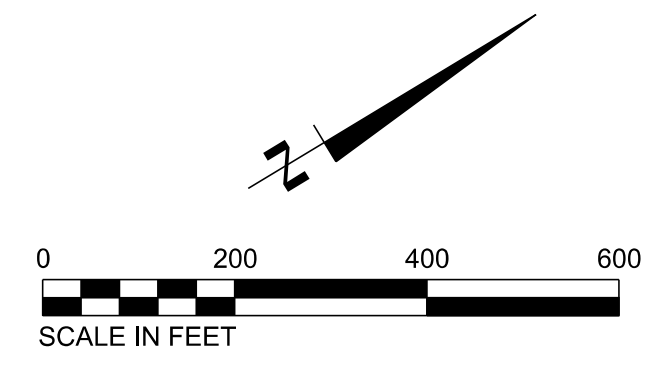
GENERAL NOTES

1. The Contractor shall notify the Engineer and the Owner not less than two weeks prior to entering the construction site for any purpose so that they may publish "Notices to Airmen" of the construction activities.
2. All haul routes, stockpile areas and active airport operational areas shall be discussed and coordinated with the Resident Project Representative and Owner during the Pre-Construction Conference.
3. The Contractor shall be responsible for maintaining and repairing any existing pavements and/or haul routes damaged by construction traffic throughout the construction period. The Contractor shall also be responsible for any necessary additional stabilization of all access and haul routes at no additional cost. All access and haul routes shall be repaired to their original condition prior to final acceptance of the project. The Contractor shall provide digital photographs of all potential haul/access routes prior to the start of construction.
4. All construction traffic must enter and exit the project work area via the project access gate.
5. The construction equipment storage/staging areas are as shown. Any damages caused by the Contractor's use of these areas must be repaired to the satisfaction of the Owner.
6. Sufficient sweepers and cleaning equipment shall be provided in order that all waste, loose material, and debris can be removed from all airport operations areas. All loose material shall be completely removed from paved and turf areas within safety areas daily. Pavement cleaning equipment shall be maintained on site at all times in sufficient quantity and capacity to clean all pavements.
7. Locations of utilities, public and/or private are approximate only, and the exact locations shall be determined in the field. It is possible that some existing facilities are not shown on these drawings. The Contractor shall be responsible for having all underground utility facilities located and marked prior to the beginning of the construction.
8. No equipment shall be left on the airport unattended unless it is in the appropriate staging area or the Contractor receives prior approval from the Resident Project Representative.
9. Before construction will be permitted to begin, Contractor shall submit a written, detailed schedule to the Engineer.
10. The Contractor shall be responsible for obtaining and complying with all required permits, including NPDES.
11. The Contractor is required to have a Full-Time Superintendent on the job site during all hours of construction. An emergency phone number for issues that arise outside of normal working hours will be provided to the Owner and the Resident Project Representative at the Pre-Construction Conference.
12. Prior to commencing work, the Contractor shall contact the utility owners to notify them of work in the area and request them to locate their respective utility. These notifications shall be given at least one week prior to commencement of operations around the utility.
13. The legal disposal of debris material shall be the Contractor's responsibility and at the Contractor's expense.
14. The Contractor shall schedule inspections a minimum of 48 hours in advance except as otherwise approved by the Resident Project Representative
15. The Contractor's employee personal vehicles shall be restricted to the Contractor's staging area, or other location approved by the Resident Project Representative, and are not allowed in the airport operation area at any time.
16. Construction equipment and personnel shall yield to aircraft traffic at all times.

17. In the interest of safety, the Contractor is also required to acquaint his/her employees with the provisions of the following Federal Aviation Administration Advisory Circulars:
 - 150/5370- (Latest Edition) - Operational Safety on Airports During Construction
 - 150/5210- (Latest Edition) - Painting, Marking and Lighting of Vehicles used on an Airport
 - 150/5200- (Latest Edition) - Airport Safety Self-Inspection
 - 150/5340- (Latest Edition) - Standards for Airport Markings
18. Any item or element of work that does not have a specific pay item (such as barricades, radios, restoration of haul routes, etc.) shall be considered incidental to the Project and no separate payment will be made.

NOTE:
THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCKS OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.



TOTAL CONTRACT TIME
BASE BID 90 CALENDAR DAYS

LIQUIDATED DAMAGES
\$500 PER CALENDAR DAY

CONTROL POINT COORDINATE TABLE

CP#	NGS NAME	Northing	Easting	Elevation
1	BWSC CAPPED IRON	1374588.441	2439874.142	864.78
2	NGS MONUMENT	1376155.78	2440235.65	842.00

PROJECT CONTACTS

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REVISION INFORMATION

REV.	CHK.	DATE	DESCRIPTION
JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
JEC	DSD	5-09-2018	ISSUED FOR BID

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FILE NO. 33843-06

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LEGEND

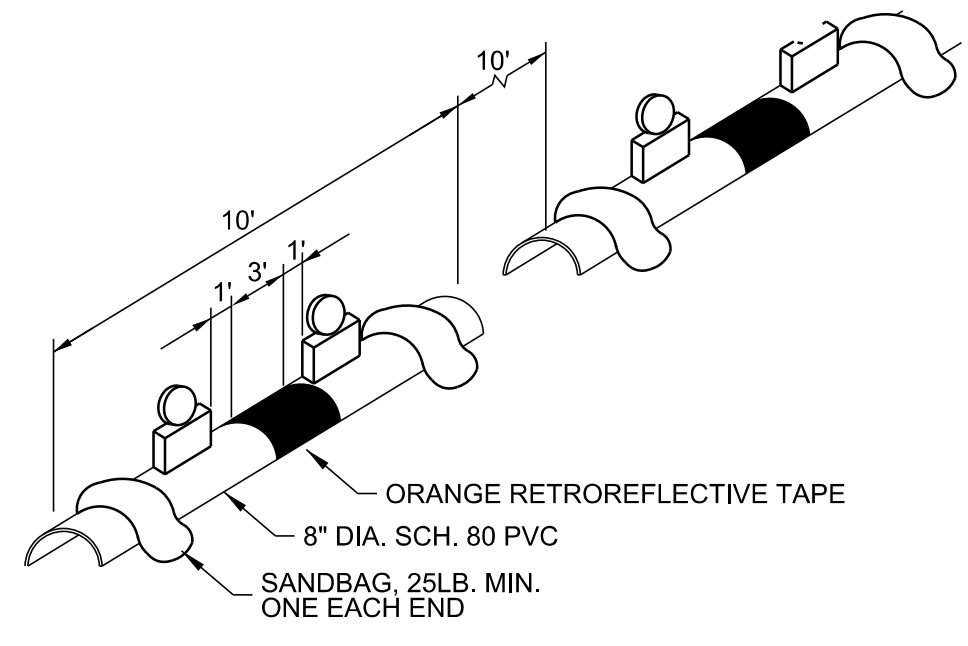
- - - HAUL ROUTE/STAGING AREA
- RSA — RUNWAY SAFETY AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- ▨ EAST APRON EXPANSION AND REHABILITATION

CONSTRUCTION SAFETY NOTES

1. All construction vehicles and equipment operating on the airport property shall be marked with standard FAA warning flags or beacons. Vehicles and equipment operating during hours of darkness or reduced visibility shall be lighted with a flashing circular amber emergency warning light, according to FAA Advisory Circular 150/5370-2G.
2. All flagmen controlling construction traffic across airport operational areas shall also be equipped with a radio which will operate on the FAA ground control frequency of 122.9 MHz.
3. All active airport operational safety areas which are adjacent to a construction work area shall be separated by barricades and red flashing warning lights. All construction traffic which crosses aircraft operational safety areas must be controlled by flagmen. Barricades which are adjacent to airport operational safety areas must be the low profile type as detailed on the drawings.
4. **Airport Operational Safety Areas** are defined as follows:
 - 6.1 All areas within 75 feet from the centerline of pavement of an active runway.
 - 6.2 The connectors from the existing T-Hangars to Taxiway "A".
5. All barricades, radios, temporary markings as included in these safety notes, shall be furnished at no additional cost to the Owner. No separate measurement and payment will be made for these required safety items. All costs associated with these items must be included in the contract bid prices listed in the proposal for the items which would most logically include them.
6. All Contractor operations and planned pavement closures must be coordinated a minimum of 14 days in advance with the engineer and airport. Without sufficient notification, contractor access to work areas may be limited based on airport operational needs.
7. All equipment, stockpile and storage areas heights must not penetrate the F.A.R. Part 77 surfaces as depicted on this sheet. The safety area dimensions are listed on this sheet. All areas to be reopened to aircraft traffic must conform to the safety area grading requirements of FAA Advisory Circular 150/5300-13A "Airport Design".
8. The Contractor is responsible for all construction, maintenance removal and cleanup of all Haul Routes (on and off airport property).
9. At no time will construction vehicles be allowed on active runways or taxiways.
10. All construction traffic must enter and exit the project work area via the project access route as shown on the drawings.
11. At no time will vehicles be allowed on Runway 3-21.
12. Contractor shall maintain access to T-Hangars at all times.

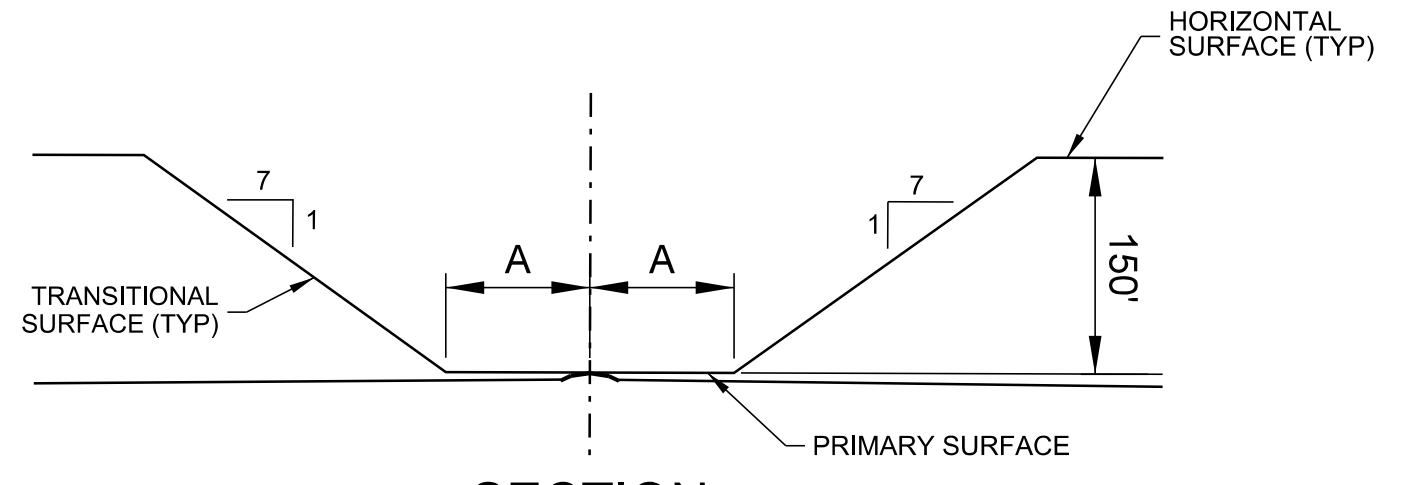
CONSTRUCTION PHASING NOTE

1. Section of existing apron is to be kept open and undisturbed while work is being performed on the remaining apron so disruption to hangars and taxiway by aircraft is minimized. Contractor shall coordinate with owner when they are prepared to work in this area in order to minimize shut down time on the apron.

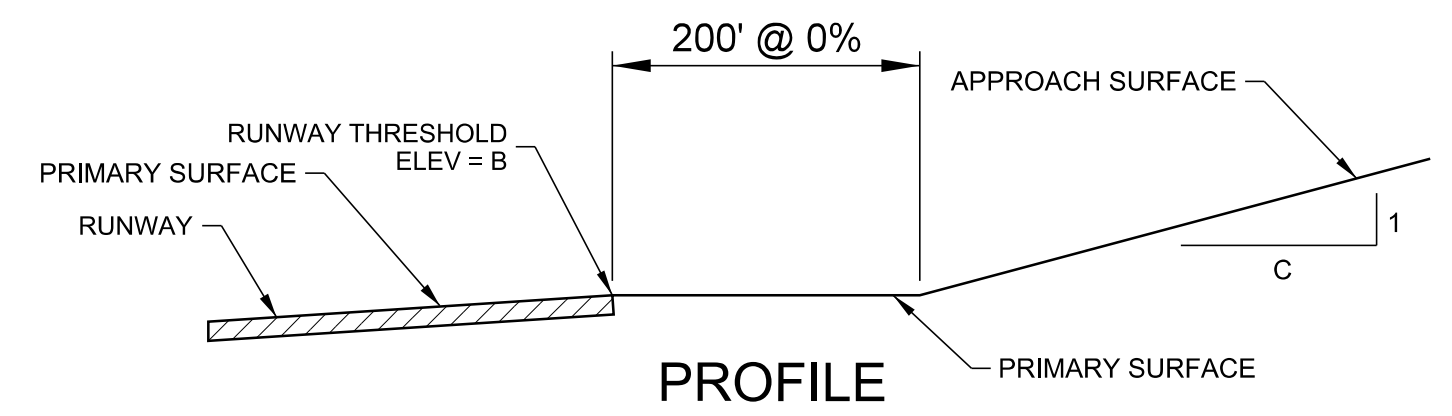


- NOTES:**
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
 2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.

AIRFIELD BARRICADE DETAIL
NOT TO SCALE



SECTION



PROFILE

RUNWAY END	A	B	C
3	250'	341.42'	34
21	250'	355.60'	20

FAR PART 77 SURFACES
NOT TO SCALE

PAVEMENT	SAFETY AREA WIDTH*
RW 3-21	150'
TW A	79'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS

SAFETY PLAN AND SAFETY NOTES

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION

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	JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
	JEC	DSD	5-09-2018	ISSUED FOR BID

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FILE NO. 33843-06

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SUMMARY OF QUANTITIES

BASE BID - APRON REHABILITATION, AND EXPANSION GRADING

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
GP-105	Mobilization	1	LS
P-101-5.1	Removal of Existing Asphalt Pavement	3,050	SY
P-151-4.1	Clearing and Grubbing	1	LS
P-152-4.1	Unclassified Excavation	7,200	CY
P-152-4.2	Embankment - Borrow On-Site	6,900	CY
SEC. 310	Graded Aggregate Base Course - Including Material	4,950	SY
SEC. 400	Asphaltic Concrete 12mm Superpave, Including Bituminous Materials and Hydrated Lime	600	TONS
SEC. 400	Asphaltic Concrete 19mm Superpave, Including Bituminous Materials and Hydrated Lime	600	TONS
SEC. 413	Bituminous Tack Coat	550	GAL
T-901-5.1	Seeding	3	AC
T-905-5.1	Topsolling	1,700	CY
T-908-5.1	Mulching	3	AC
P-156-5.1	Temporary Construction Exit	1	EA
P-156-5.2	Inlet Sediment Trap	3	EA
P-156-5.3	Temporary Sediment Trap	1	EA
P-156-5.4	Temporary Stone Filter Ring	1	EA
P-156-5.5	Installation and removal of silt fence	350	LF
L-115-5.1	Electrical Junction Box, L-868, Class 1 (Base and Cover)	1	EA
L-125-5.1	Electrical Demolition, Complete in place	1	LS
L-125-5.2	Taxiway Edge Light, L-861T, Base Mounted, Medium Intensity (30 Watt Quartz Lamp), Complete in Place	1	EA

ADDITIVE ALTERNATE #1 - CONCRETE PAD

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
P-610-5.1	Concrete Pad, Complete in Place (20' x 30' x 6" Thick)	67	SY

ADDITIVE ALTERNATE #2 - STORM SEWER INSTALLATION

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
GP-105	Mobilization	1	LS
SEC. 550	36" Reinforced Concrete Pipe (Class 3)	482	LF
SEC. 550	30" Reinforced Concrete Pipe (Class 3)	292	LF
SEC. 550	GDOT Standard Pipe Culvert Concrete Headwall	2	EA
SEC. 550	Grate Inlet, 3' x 3', NEENAH Foundry R-4884-A or Approved Equal	3	EA
SEC. 603	Storm Drain Outlet Protection, Rip-Rap, GDOT Type 3 Stone	700	SY

ADDITIVE ALTERNATE #3 - APRON EXPANSION, BASE AND PAVING

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
GP-105	Mobilization	1	LS
SEC. 310	Graded Aggregate Base Course - Including Material	8,100	SY
SEC. 400	Asphaltic Concrete 12mm Superpave, Including Bituminous Materials and Hydrated Lime	980	TONS
SEC. 400	Asphaltic Concrete 19mm Superpave, Including Bituminous Materials and Hydrated Lime	980	TONS
SEC. 413	Bituminous Tack Coat	890	GAL
P-620-5.1	Permanent Pavement Marking, Non-Reflective Yellow (First Coat, and Tie Downs)	145	SY
P-620-5.2	Permanent Pavement Marking, Reflective Yellow (Second Coat)	69	SY
SEC. 660	Sanitary Sewer Manhole Adjustment	1	LS

ADDITIVE ALTERNATE #4 - T-HANGAR SITE WORK

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT
GP-105	Mobilization	1	LS
P-101-5.1	Removal of Existing Asphalt Pavement	350	SY
P-152-4.1	Unclassified Excavation	3,100	CY
SEC. 310	Graded Aggregate Base Course - Including Material	2,875	SY
SEC. 400	Asphaltic Concrete 12mm Superpave, Including Bituminous Materials and Hydrated Lime	350	TONS
SEC. 400	Asphaltic Concrete 19mm Superpave, Including Bituminous Materials and Hydrated Lime	350	TONS
SEC. 413	Bituminous Tack Coat	315	GAL
SEC. 550	Grate Inlet, 3' x 3', NEENAH Foundry R-4884-A or Approved Equal	1	EA
SEC. 550	18" Reinforced Concrete Pipe (Class 3)	190	LF
P-620-5.1	Permanent Pavement Marking, Non-Reflective Yellow (First Coat)	30	SY
P-620-5.2	Permanent Pavement Marking, Reflective Yellow (Second Coat)	30	SY
T-901-5.1	Seeding	1.5	AC
T-905-5.1	Topsolling	825	CY
T-908-5.1	Mulching	1.5	AC
P-156-5.1	Temporary Construction Exit	1	EA
P-156-5.2	Inlet Sediment Trap	2	EA
P-156-5.5	Installation and removal of silt fence	500	LF



SUMMARY OF QUANTITIES
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

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	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
	JEC	DSD	5-09-2018	ISSUED FOR BID

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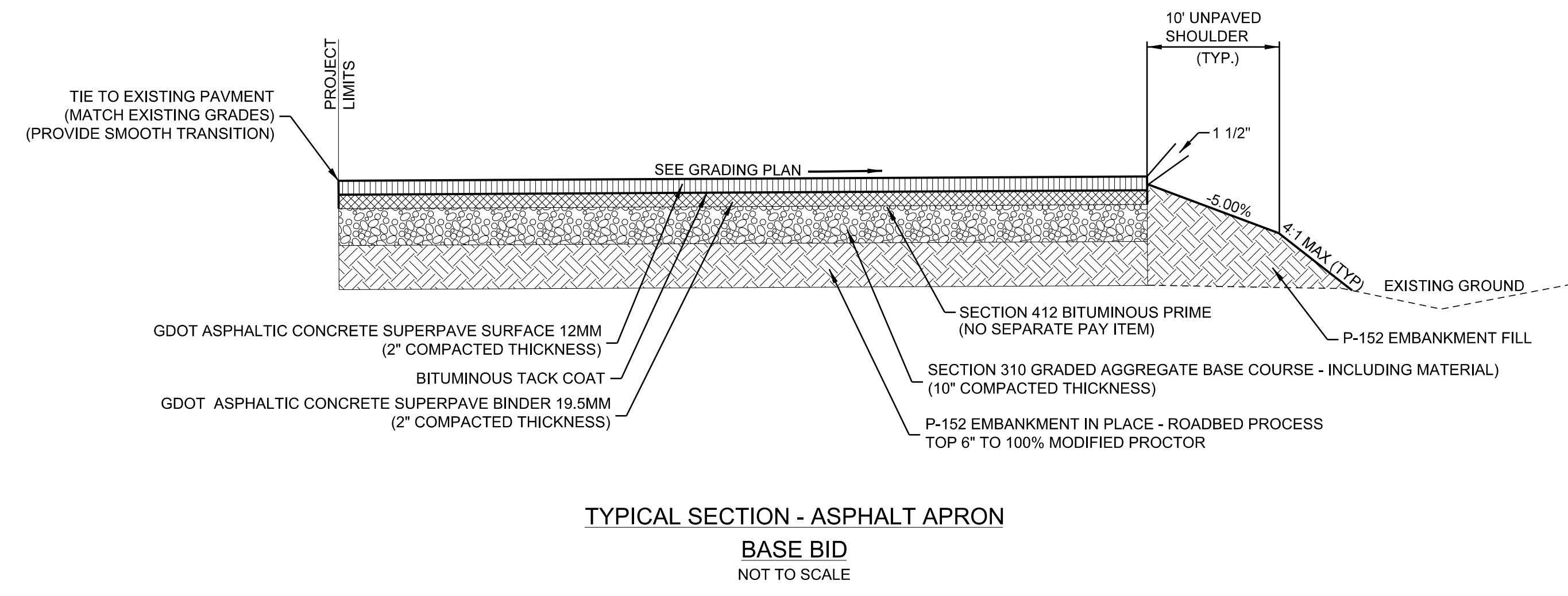


TYPICAL SECTIONS
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

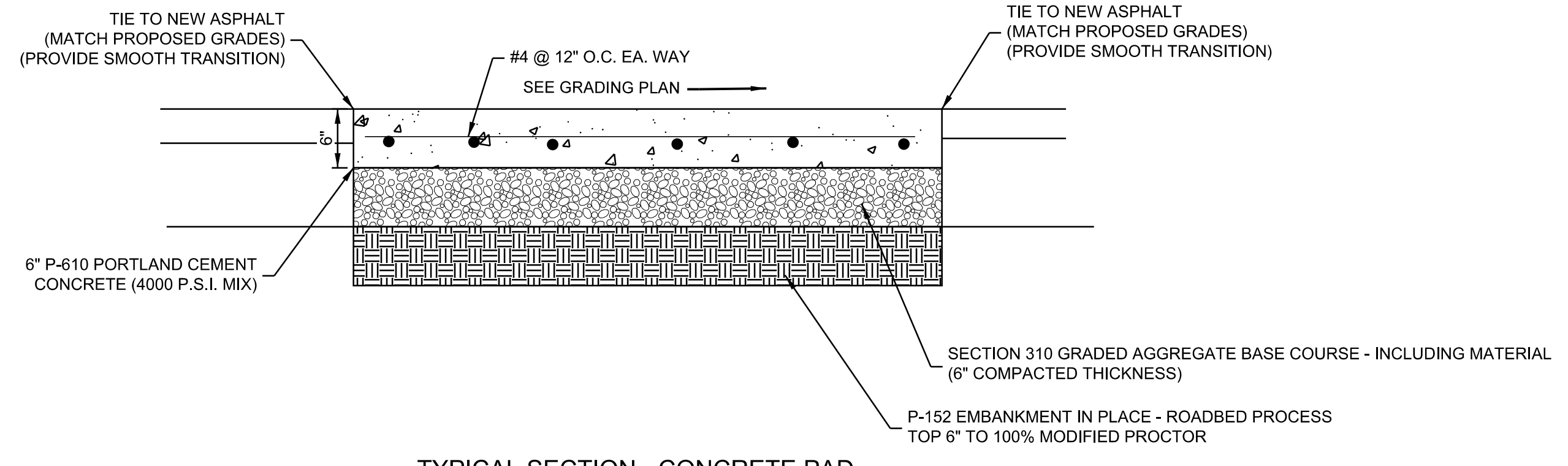
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JEC	DSD	5-09-2018	ISSUED FOR BID

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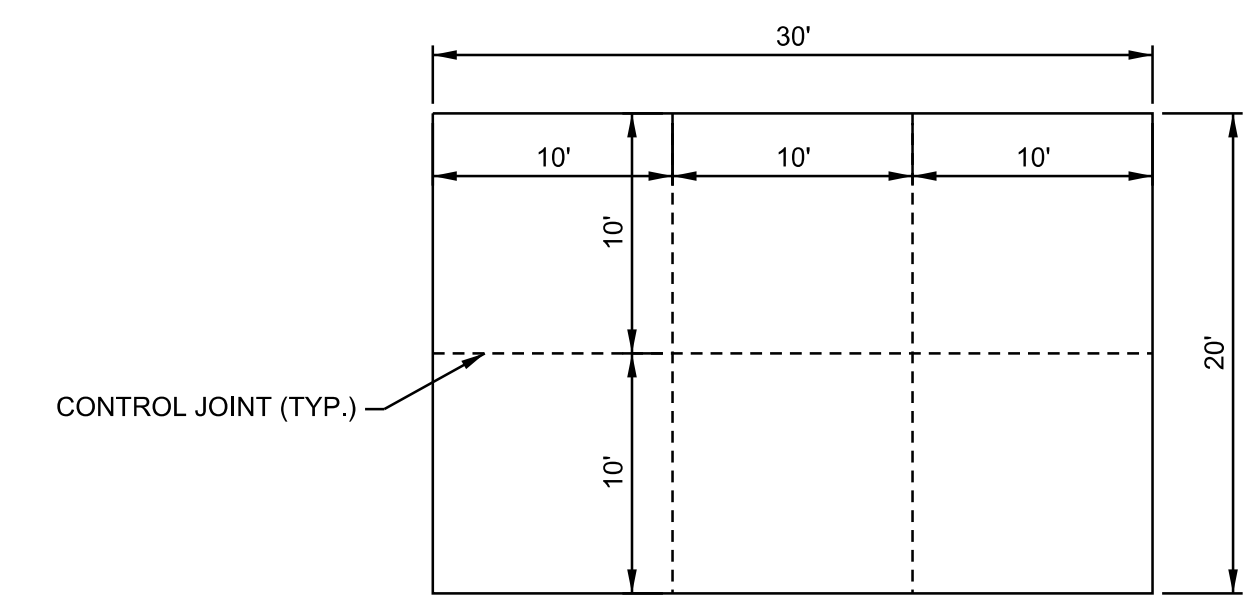
FILE NO. 33843-06



TYPICAL SECTION - ASPHALT APRON
BASE BID
NOT TO SCALE

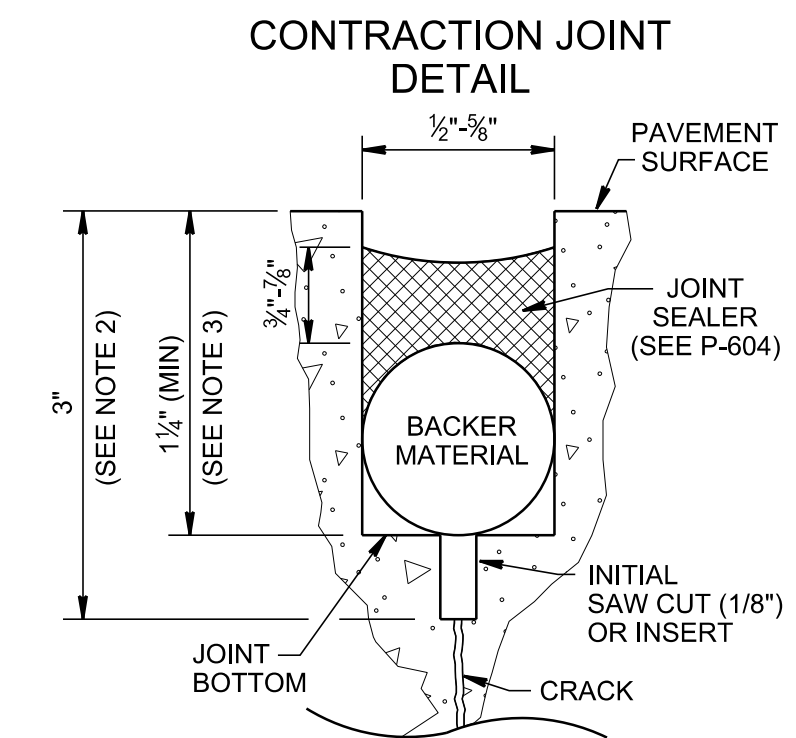


TYPICAL SECTION - CONCRETE PAD
ADDITIVE ALTERNATE #1
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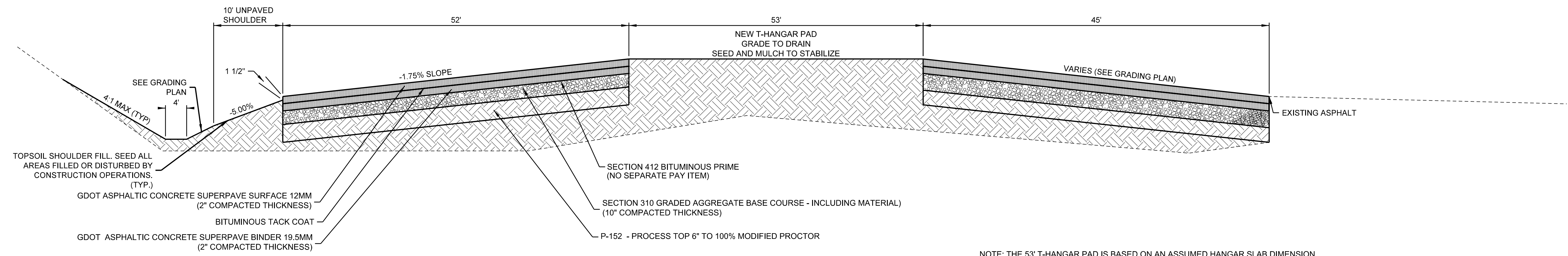


JOINT LAYOUT - CONCRETE PAD
ADDITIVE ALTERNATE #1
NOT TO SCALE

- NOTES:
- ALL SAWED CONTROL / CONTRACTION JOINTS SHALL HAVE BACKER ROD AND JOINT SEALANT. THIS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT. NO MEASUREMENT OR PAYMENT SHALL BE MADE FOR THESE ITEMS.
 - JOINTS SHALL BE SAWED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING AND BEFORE UNCONTROLLED SHRINKAGE CRACKING OF PAVEMENT OCCURS. JOINTS MUST BE SAWED THE SAME DAY AS THE CONCRETE POUR.
 - ALL CONCRETE SHALL BE 4,000 P.S.I. WITH MAXIMUM 4" SLUMP.
 - PAD SHOULD BE COMPLETED IN ONE POUR.
 - FOR P-610 PORTLAND CEMENT CONCRETE, A WHITE PIGMENTED CURING COMPOUND MUST BE USED.



- NOTES:
- TOP OF SEALANT TO BE 1/4" TO 3/8" BELOW TOP OF PAVEMENT.
 - SEALANT RESERVOIR TO BE SIZED TO PROVIDE PROPER SHAPE FACTOR IN ACCORDANCE WITH SEALANT MANUFACTURERS RECOMMENDATIONS. MINIMUM DIMENSIONS SHOWN.

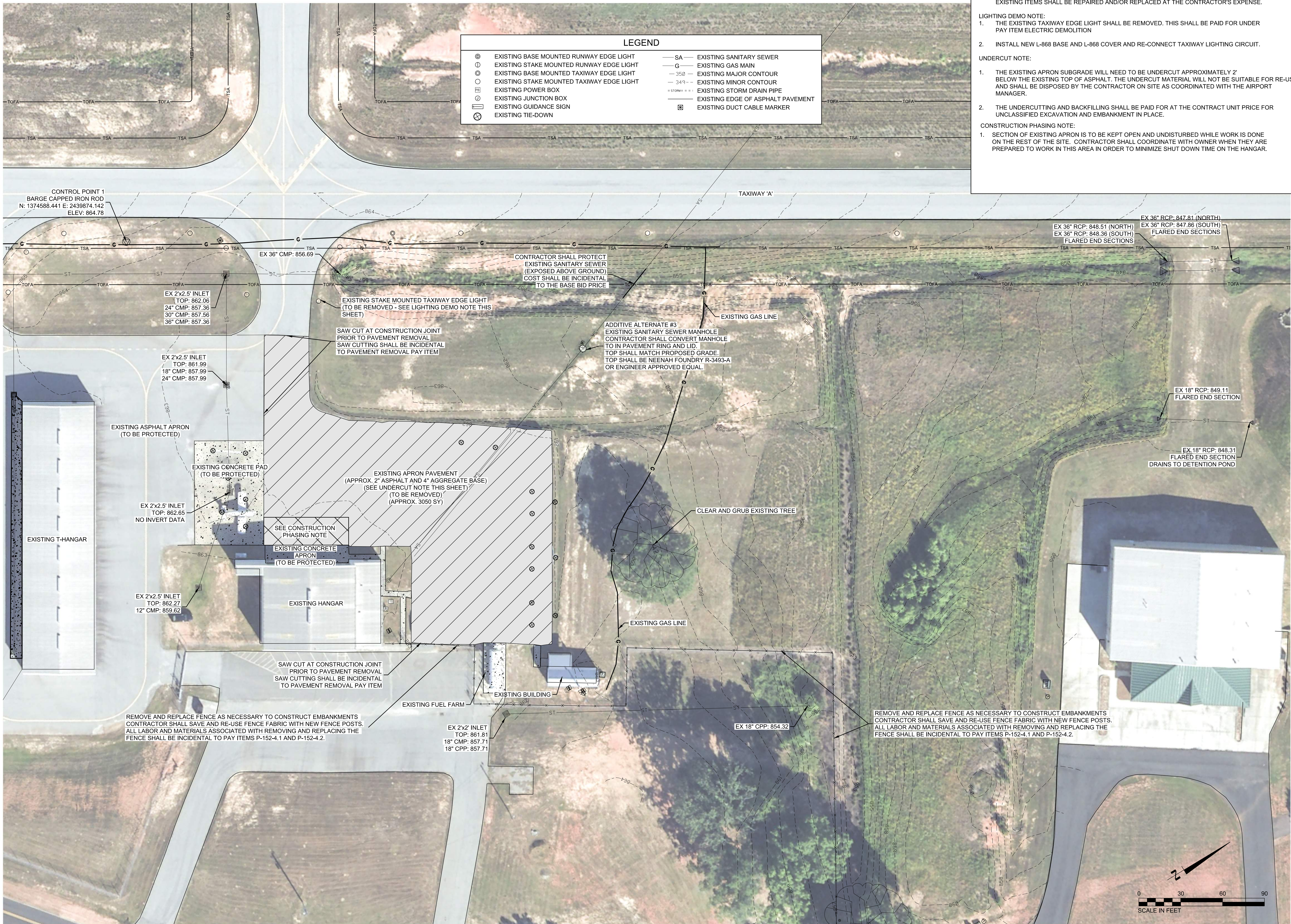


TYPICAL SECTION - T-HANGAR CROSS SECTION
ADDITIVE ALTERNATE #4
NOT TO SCALE

NOTE: THE 53' T-HANGAR PAD IS BASED ON AN ASSUMED HANGAR SLAB DIMENSION, ACTUAL SLAB DIMENSIONS MAY VARY SLIGHTLY. CONTRACTOR SHALL VERIFY THIS DIMENSION WITH THE OWNER AND ENGINEER PRIOR TO PAVING.

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LEGEND

⊙	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT	— SA —	EXISTING SANITARY SEWER
⊙	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT	— G —	EXISTING GAS MAIN
⊙	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT	— 350 —	EXISTING MAJOR CONTOUR
⊙	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT	— 349 —	EXISTING MINOR CONTOUR
⊙	EXISTING POWER BOX	— S10RMA —	EXISTING STORM DRAIN PIPE
⊙	EXISTING JUNCTION BOX	—	EXISTING EDGE OF ASPHALT PAVEMENT
⊙	EXISTING GUIDANCE SIGN	—	EXISTING DUCT CABLE MARKER
⊙	EXISTING TIE-DOWN		

- GENERAL NOTE:**
- ALL ITEMS SHALL REMAIN, EXCEPT WHERE NOTED TO BE REMOVED. ANY DAMAGE TO EXISTING ITEMS SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- LIGHTING DEMO NOTE:**
- THE EXISTING TAXIWAY EDGE LIGHT SHALL BE REMOVED. THIS SHALL BE PAID FOR UNDER PAY ITEM ELECTRIC DEMOLITION
 - INSTALL NEW L-868 BASE AND L-868 COVER AND RE-CONNECT TAXIWAY LIGHTING CIRCUIT.
- UNDERCUT NOTE:**
- THE EXISTING APRON SUBGRADE WILL NEED TO BE UNDERCUT APPROXIMATELY 2' BELOW THE EXISTING TOP OF ASPHALT. THE UNDERCUT MATERIAL WILL NOT BE SUITABLE FOR RE-USE AND SHALL BE DISPOSED BY THE CONTRACTOR ON SITE AS COORDINATED WITH THE AIRPORT MANAGER.
 - THE UNDERCUTTING AND BACKFILLING SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED EXCAVATION AND EMBANKMENT IN PLACE.
- CONSTRUCTION PHASING NOTE:**
- SECTION OF EXISTING APRON IS TO BE KEPT OPEN AND UNDISTURBED WHILE WORK IS DONE ON THE REST OF THE SITE. CONTRACTOR SHALL COORDINATE WITH OWNER WHEN THEY ARE PREPARED TO WORK IN THIS AREA IN ORDER TO MINIMIZE SHUT DOWN TIME ON THE HANGAR.



EXISTING CONDITIONS / DEMO PLAN
 PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
 MONROE, GEORGIA

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
JEC	JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
JEC	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
JEC	JEC	DSD	5-09-2018	ISSUED FOR BID

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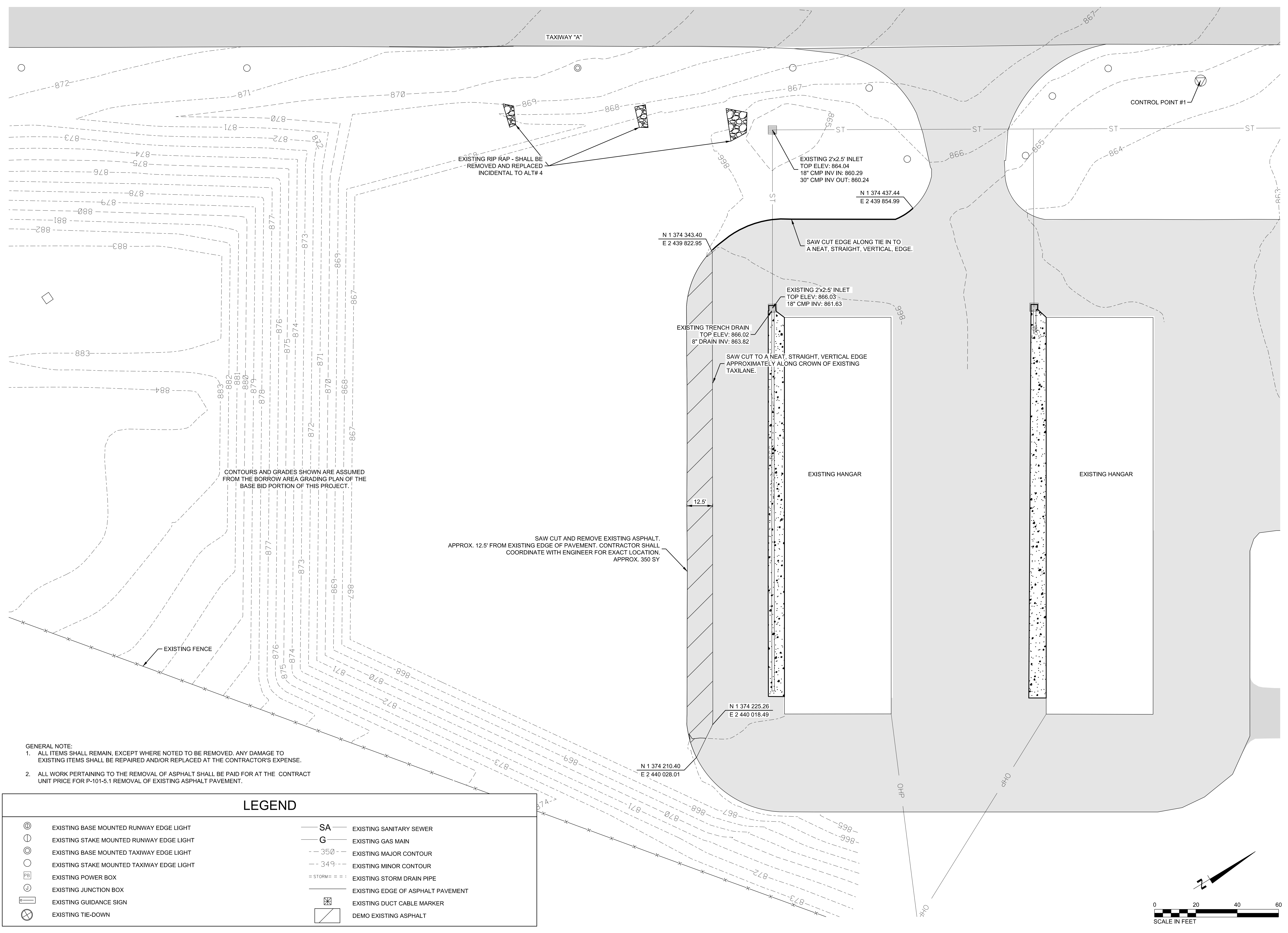
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ALT#4 - EXISTING CONDITIONS / DEMO PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

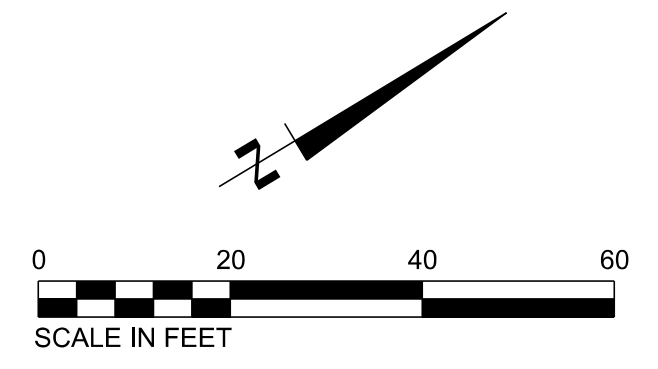
REVISION INFORMATION	
REV.	DESCRIPTION
JEC	ISSUED FOR 30% REVIEW
JEC	ISSUED FOR 90% REVIEW
JEC	ISSUED FOR BID

C0.42
FILE NO. 33843-06



LEGEND

⊙	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT	SA	EXISTING SANITARY SEWER
⊖	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT	G	EXISTING GAS MAIN
⊙	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT	350	EXISTING MAJOR CONTOUR
⊖	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT	349	EXISTING MINOR CONTOUR
⊠	EXISTING POWER BOX	STORM	EXISTING STORM DRAIN PIPE
⊙	EXISTING JUNCTION BOX	---	EXISTING EDGE OF ASPHALT PAVEMENT
⊠	EXISTING GUIDANCE SIGN	⊠	EXISTING DUCT CABLE MARKER
⊖	EXISTING TIE-DOWN	⊠	DEMO EXISTING ASPHALT

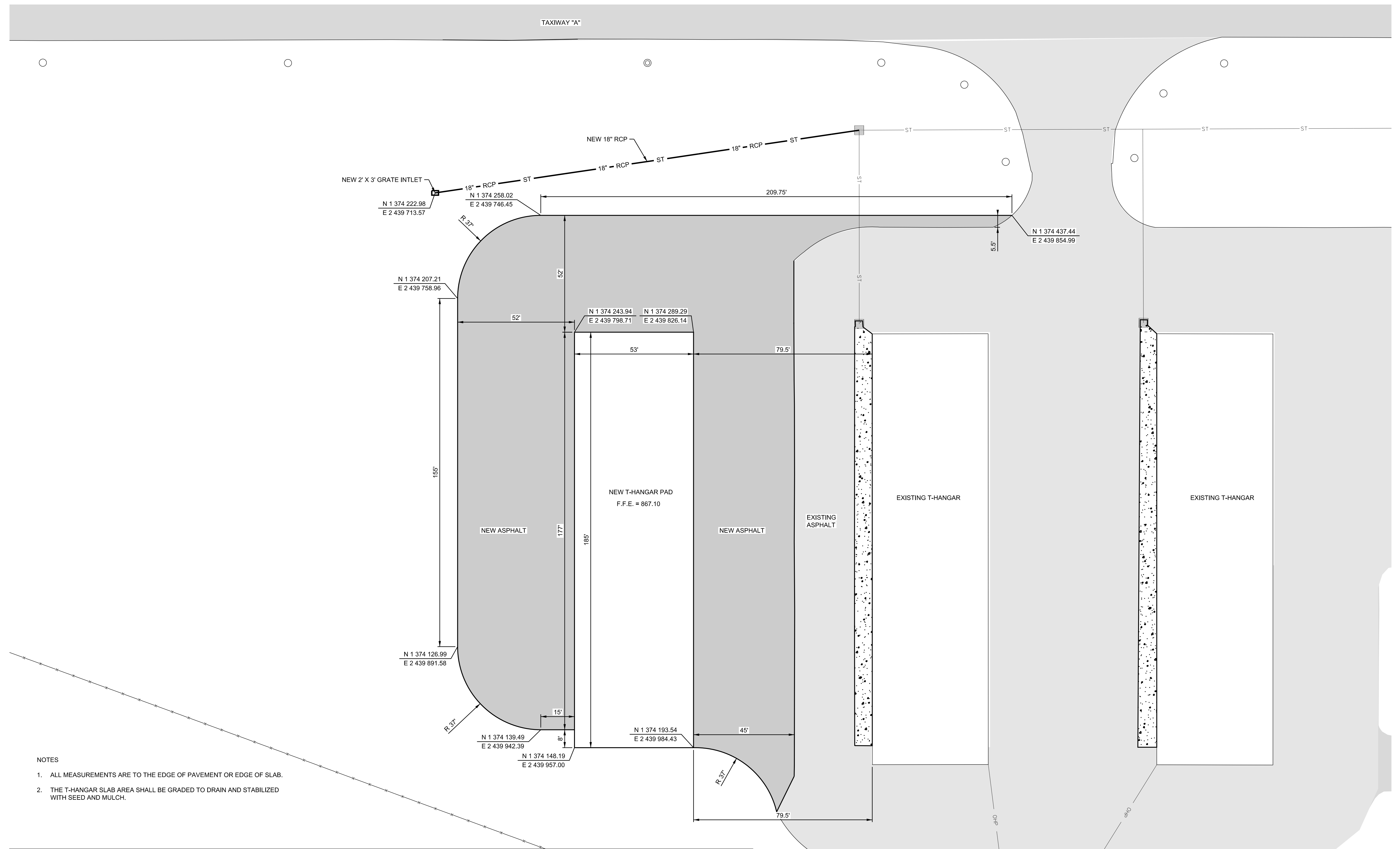


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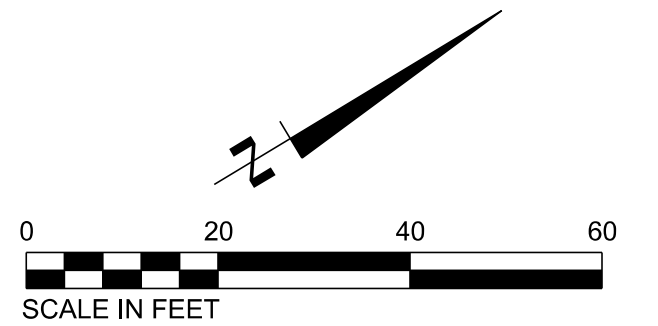


ALT#4 - T-HANGAR SITE LAYOUT PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA



- NOTES
1. ALL MEASUREMENTS ARE TO THE EDGE OF PAVEMENT OR EDGE OF SLAB.
 2. THE T-HANGAR SLAB AREA SHALL BE GRADED TO DRAIN AND STABILIZED WITH SEED AND MULCH.

LEGEND					
	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT		EXISTING SANITARY SEWER		EXISTING ASPHALT
	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT		EXISTING GAS MAIN		NEW ASPHALT
	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT		EXISTING MAJOR CONTOUR		
	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT		EXISTING MINOR CONTOUR		
	EXISTING POWER BOX		EXISTING STORM DRAIN PIPE		
	EXISTING JUNCTION BOX		EXISTING EDGE OF ASPHALT PAVEMENT		
	EXISTING GUIDANCE SIGN		EXISTING DUCT CABLE MARKER		
	TAXIWAY SAFETY AREA		TAXIWAY OBJECT FREE AREA		



REVISION INFORMATION		
REV.	CHK.	DATE
JEC	DSD	2-9-2018
JEC	DSD	3-29-2018
JEC	DSD	5-08-2018

C1.02

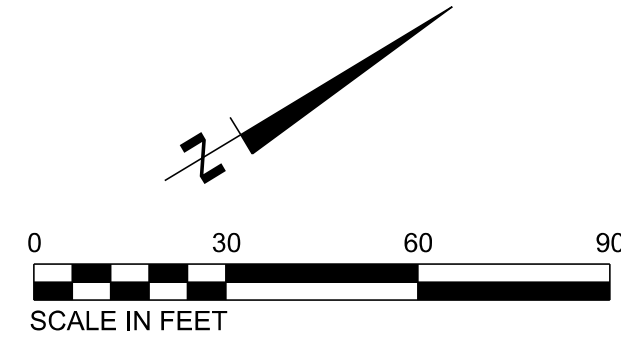
FILE NO. 33843-06

\$DATE\$
\$TIME\$
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- NOTE:
- THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCKS OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL REQUIRED PERMITS INCLUDING, BUT NOT LIMITED TO NPDES PERMIT.
 - THE LEGAL DISPOSAL OF DEBRIS MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS AT LEAST 48 HOURS IN ADVANCE, EXCEPT AS OTHERWISE APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE.
 - CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.
 - CONTRACTOR IS TO ENSURE ALL ASPHALT PAVED SURFACES DRAIN FREELY, AND THAT NO AREAS "POND" OR HAVE STANDING WATER AFTER RAIN EVENTS. ANY AREAS FOUND TO NOT BE IN COMPLIANCE SHALL BE ADDRESSED AT THE DISCRETION OF THE OWNER AND ENGINEER. ANY WORK TO REMEDIATE "PONDING" OR STANDING WATER ISSUES ON PAVED SURFACES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER. IF THE CONTRACTOR FEELS THAT THEY WILL NOT BE ABLE TO PROVIDE ADEQUATE DRAINAGE ACCORDING TO THE GRADING AND DRAINAGE PLAN, THEY SHALL NOTIFY THE ENGINEER PRIOR TO BID.
 - CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL PAVED SURFACES.

LEGEND		
	SA	EXISTING SANITARY SEWER
	G	EXISTING GAS MAIN
	350	EXISTING MAJOR CONTOUR
	349	EXISTING MINOR CONTOUR
	STORM	EXISTING STORM DRAIN PIPE
		EXISTING EDGE OF ASPHALT PAVEMENT
		EXISTING DUCT CABLE MARKER
	TOFA	TAXIWAY OBJECT FREE AREA
		EXISTING ASPHALT
		NEW ASPHALT
		FUTURE EOP
		PROPOSED CONTOUR



SITE GRADING PLAN

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION	
REV.	DESCRIPTION
JEC	2-9-2018 ISSUED FOR 30% REVIEW
JEC	3-29-2018 ISSUED FOR 90% REVIEW
JEC	5-09-2018 ISSUED FOR BID

C2.01

FILE NO. 33843-06

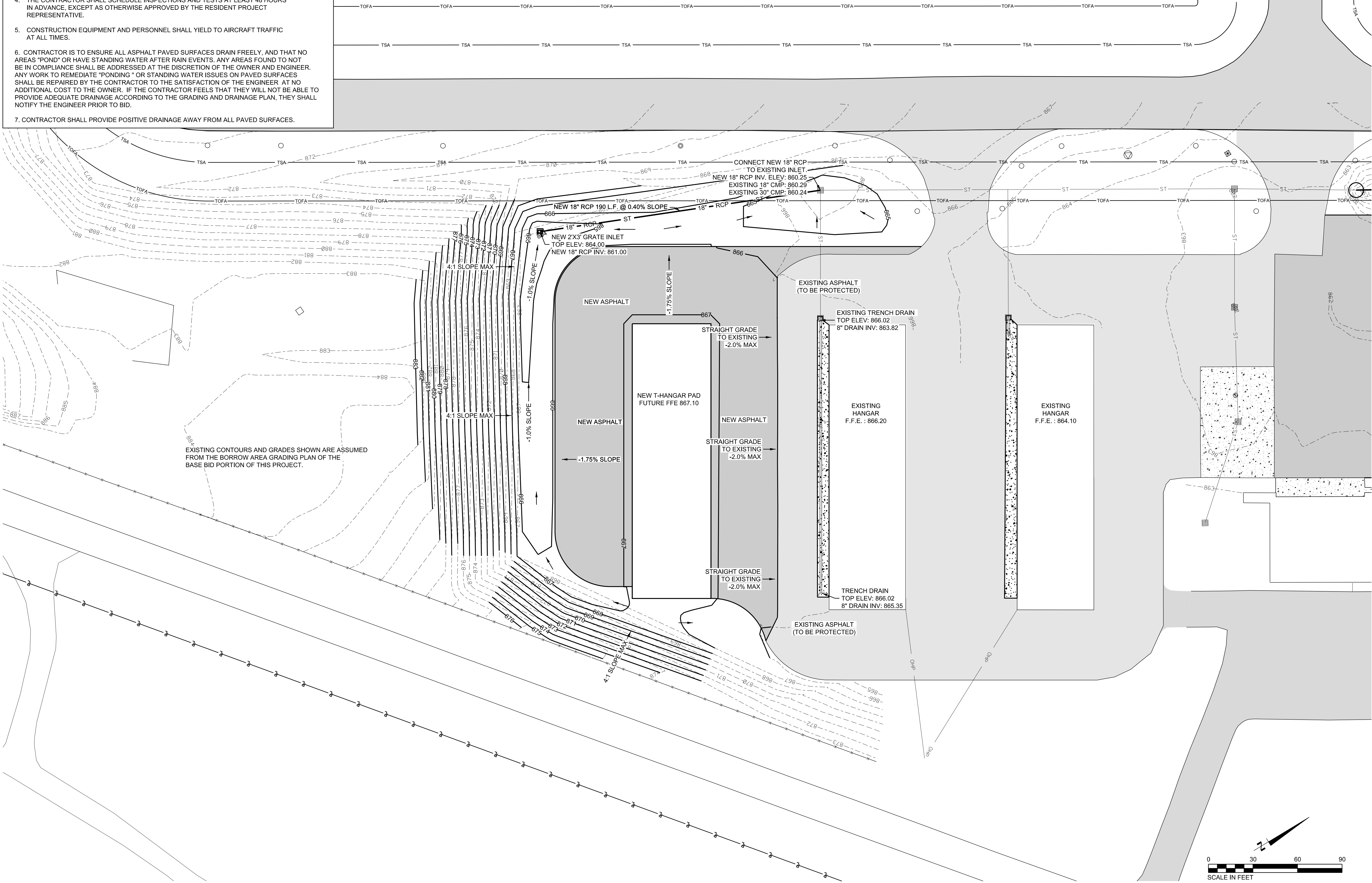
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\$TIME\$
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\$USER\$
\$TBL\$

\$DGN\$

- NOTE:
1. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCKS OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL REQUIRED PERMITS INCLUDING, BUT NOT LIMITED TO NPDES PERMIT.
 3. THE LEGAL DISPOSAL OF DEBRIS MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT THE CONTRACTOR'S EXPENSE.
 4. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS AT LEAST 48 HOURS IN ADVANCE, EXCEPT AS OTHERWISE APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE.
 5. CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.
 6. CONTRACTOR IS TO ENSURE ALL ASPHALT PAVED SURFACES DRAIN FREELY, AND THAT NO AREAS "POND" OR HAVE STANDING WATER AFTER RAIN EVENTS. ANY AREAS FOUND TO NOT BE IN COMPLIANCE SHALL BE ADDRESSED AT THE DISCRETION OF THE OWNER AND ENGINEER. ANY WORK TO REMEDIATE "PONDING" OR STANDING WATER ISSUES ON PAVED SURFACES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER. IF THE CONTRACTOR FEELS THAT THEY WILL NOT BE ABLE TO PROVIDE ADEQUATE DRAINAGE ACCORDING TO THE GRADING AND DRAINAGE PLAN, THEY SHALL NOTIFY THE ENGINEER PRIOR TO BID.
 7. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL PAVED SURFACES.

LEGEND

⊙	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT	— SA —	EXISTING SANITARY SEWER	▭	EXISTING ASPHALT
⊙	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT	— G —	EXISTING GAS MAIN	▭	NEW ASPHALT
⊙	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT	— 350 —	EXISTING MAJOR CONTOUR	- - -	FUTURE EOP
⊙	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT	— 340 —	EXISTING MINOR CONTOUR	— — —	PROPOSED CONTOUR
⊙	EXISTING POWER BOX	— STORMS —	EXISTING STORM DRAIN PIPE		
⊙	EXISTING JUNCTION BOX		EXISTING EDGE OF ASPHALT PAVEMENT		
⊙	EXISTING GUIDANCE SIGN		EXISTING DUCT CABLE MARKER		
— TSA —	TAXIWAY SAFETY AREA		TOFA —	TAXIWAY OBJECT FREE AREA	



EXISTING CONTOURS AND GRADES SHOWN ARE ASSUMED FROM THE BORROW AREA GRADING PLAN OF THE BASE BID PORTION OF THIS PROJECT.



ALT #4 - T-HANGAR GRADING PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
	JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
	JEC	DSD	5-09-2018	ISSUED FOR BID

\$DATE\$
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\$INSTR\$
\$USER\$
\$TBL\$

\$DGN\$



LEGEND

AxB2	APPLING COURSE SANDY LOAM
AxC2	APPLING COURSE SANDY LOAM
CiB	COLFAX SANDY LOAM



SOIL DATA

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
	JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
	JEC	DSD	5-09-2018	ISSUED FOR BID

\$DATE\$
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\$INSTR\$
\$USER\$
\$TBL\$

RECEIVING WATER INFORMATION			
RECEIVING WATER	SAMPLING OUTFALLS	CONSTRUCTION SITE SIZE	SURFACE WATER DRAINAGE AREA
JACKS CREEK	2	3 AC	.15 SQ MI

CHECKLIST #7:
 - [Supplement GAR 100001 - Part II, B, 1.a]: GPS LOCATION OF CONSTRUCTION EXIT:
 lat 33° 46' 31.3" N lon 83° 41' 50.30" W

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

INITIAL PERIMETER AND SEDIMENT STORAGE BMP'S

CLEARING, GRUBBING AND DEMOLITION ACTIVITIES

GRADING AND DRAINAGE ACTIVITIES

INTERMEDIATE PHASE BMP'S

PAVEMENT INSTALLATION

FINAL PHASE BMP'S

MAINTAIN BMP'S

FINAL STABILIZATION

REMOVE TEMPORARY BMP'S

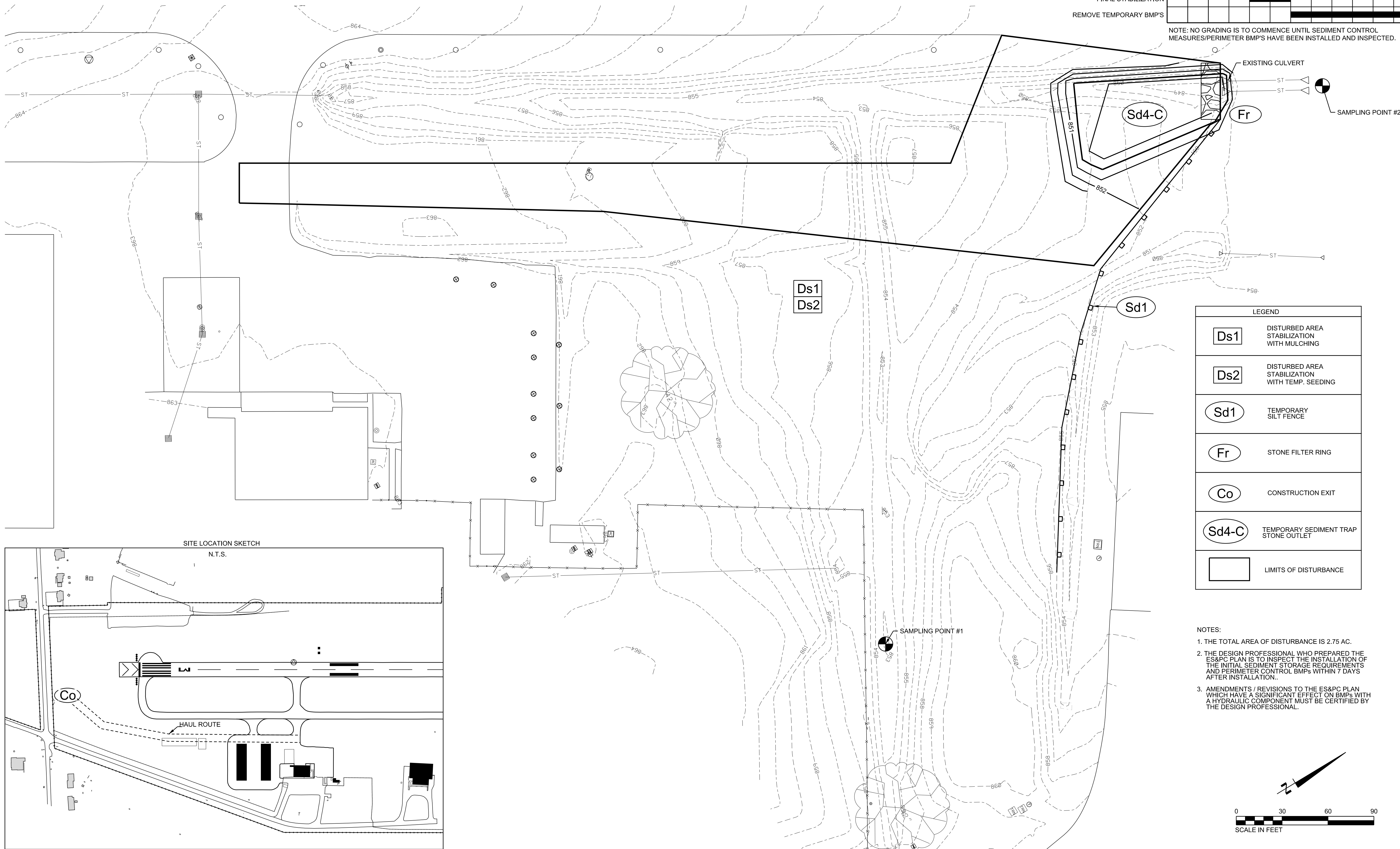
CHECKLIST # 28:

OVERALL PROJECT SCHEDULE

WEEKS AFTER BEGINNING CONSTRUCTION

	1	2	3	4	5	6	7	8	9	10	11	12	13
INITIAL PERIMETER AND SEDIMENT STORAGE BMP'S	█												
CLEARING, GRUBBING AND DEMOLITION ACTIVITIES	█	█											
GRADING AND DRAINAGE ACTIVITIES		█	█	█									
INTERMEDIATE PHASE BMP'S			█	█	█	█	█	█					
PAVEMENT INSTALLATION				█	█								
FINAL PHASE BMP'S					█	█	█	█	█	█	█	█	█
MAINTAIN BMP'S													
FINAL STABILIZATION													
REMOVE TEMPORARY BMP'S													

NOTE: NO GRADING IS TO COMMENCE UNTIL SEDIMENT CONTROL MEASURES/PERIMETER BMP'S HAVE BEEN INSTALLED AND INSPECTED.



BARGE
 DESIGN SOLUTIONS

2039 Peachtree Road // Suite 805 // Atlanta, GA 30339
 PHONE (770) 628-2631 // FAX (770) 855-9083



PRE-CONSTRUCTION EROSION CONTROL PLAN

PROJECT# AP XXX-XXXX-XX(XXX) MONROE

MONROE-WALTON COUNTY AIRPORT

MONROE, GEORGIA

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION	ISSUED FOR 30% REVIEW	ISSUED FOR 90% REVIEW	ISSUED FOR BID
JEC	DSD		2-9-2018				
JEC	DSD		3-29-2018				
JEC	DSD		5-09-2018				

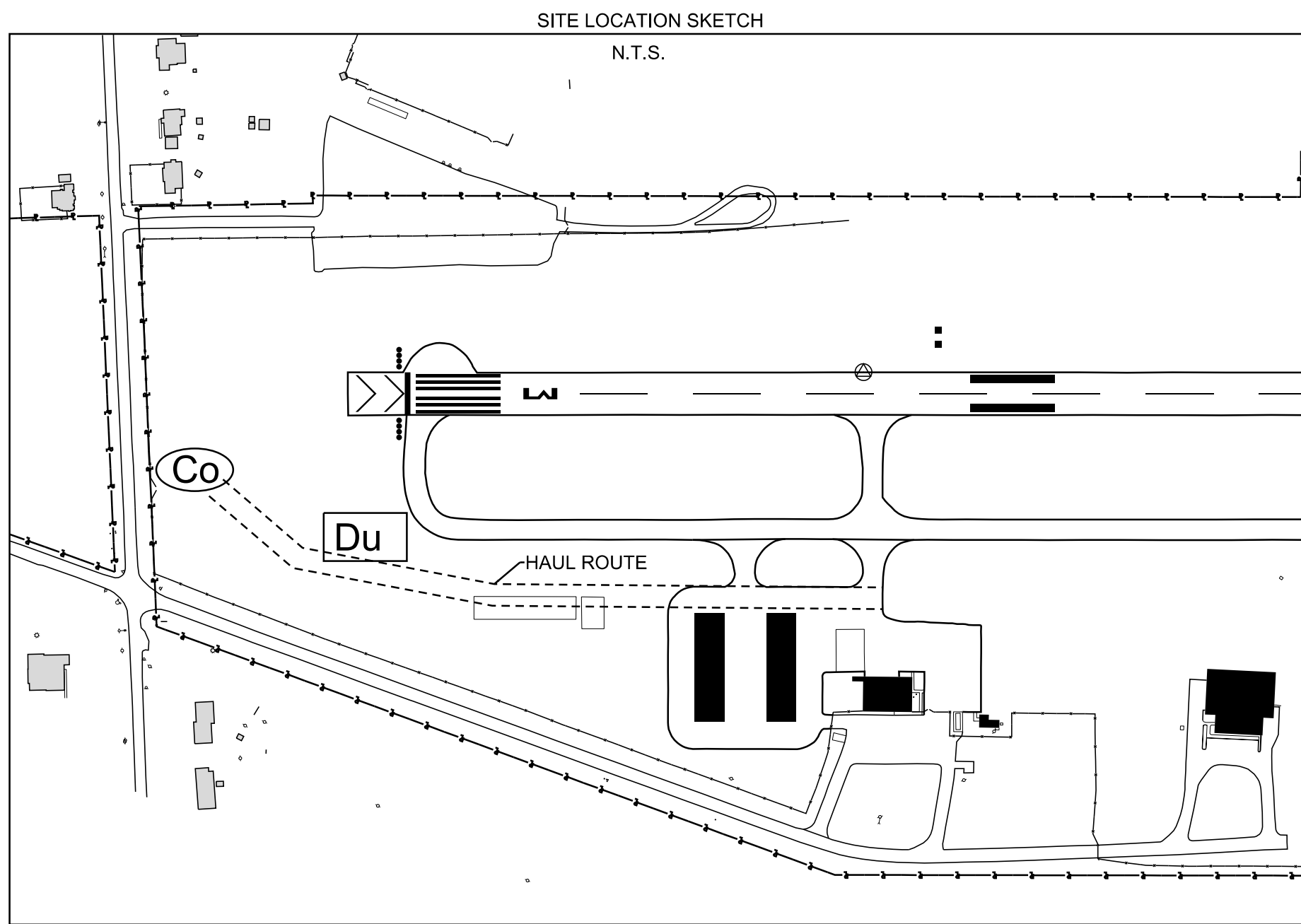
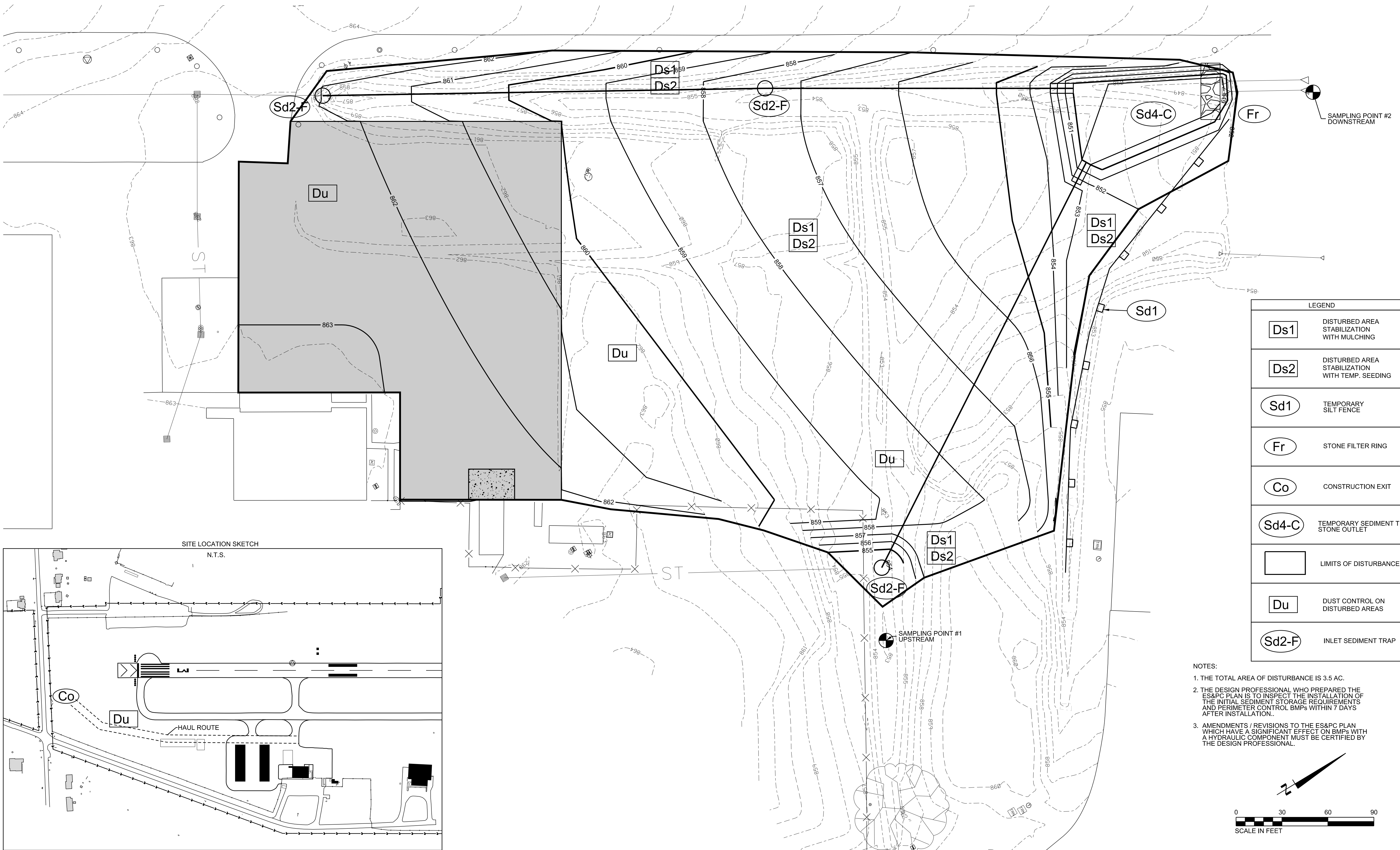
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FILE NO. 33843-06

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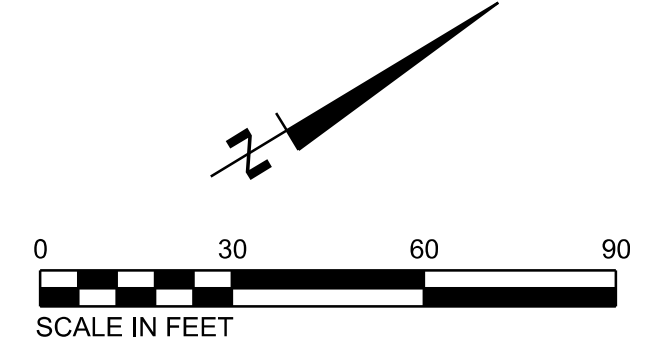
RECEIVING WATER INFORMATION			
RECEIVING WATER	SAMPLING OUTFALLS	CONSTRUCTION SITE SIZE	SURFACE WATER DRAINAGE AREA
JACKS CREEK	2	3 AC	.15 SQ MI



LEGEND	
Ds1	DISTURBED AREA STABILIZATION WITH MULCHING
Ds2	DISTURBED AREA STABILIZATION WITH TEMP. SEEDING
Sd1	TEMPORARY SILT FENCE
Fr	STONE FILTER RING
Co	CONSTRUCTION EXIT
Sd4-C	TEMPORARY SEDIMENT TRAP STONE OUTLET
[Box]	LIMITS OF DISTURBANCE
Du	DUST CONTROL ON DISTURBED AREAS
Sd2-F	INLET SEDIMENT TRAP

NOTES:

1. THE TOTAL AREA OF DISTURBANCE IS 3.5 AC.
2. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
3. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.



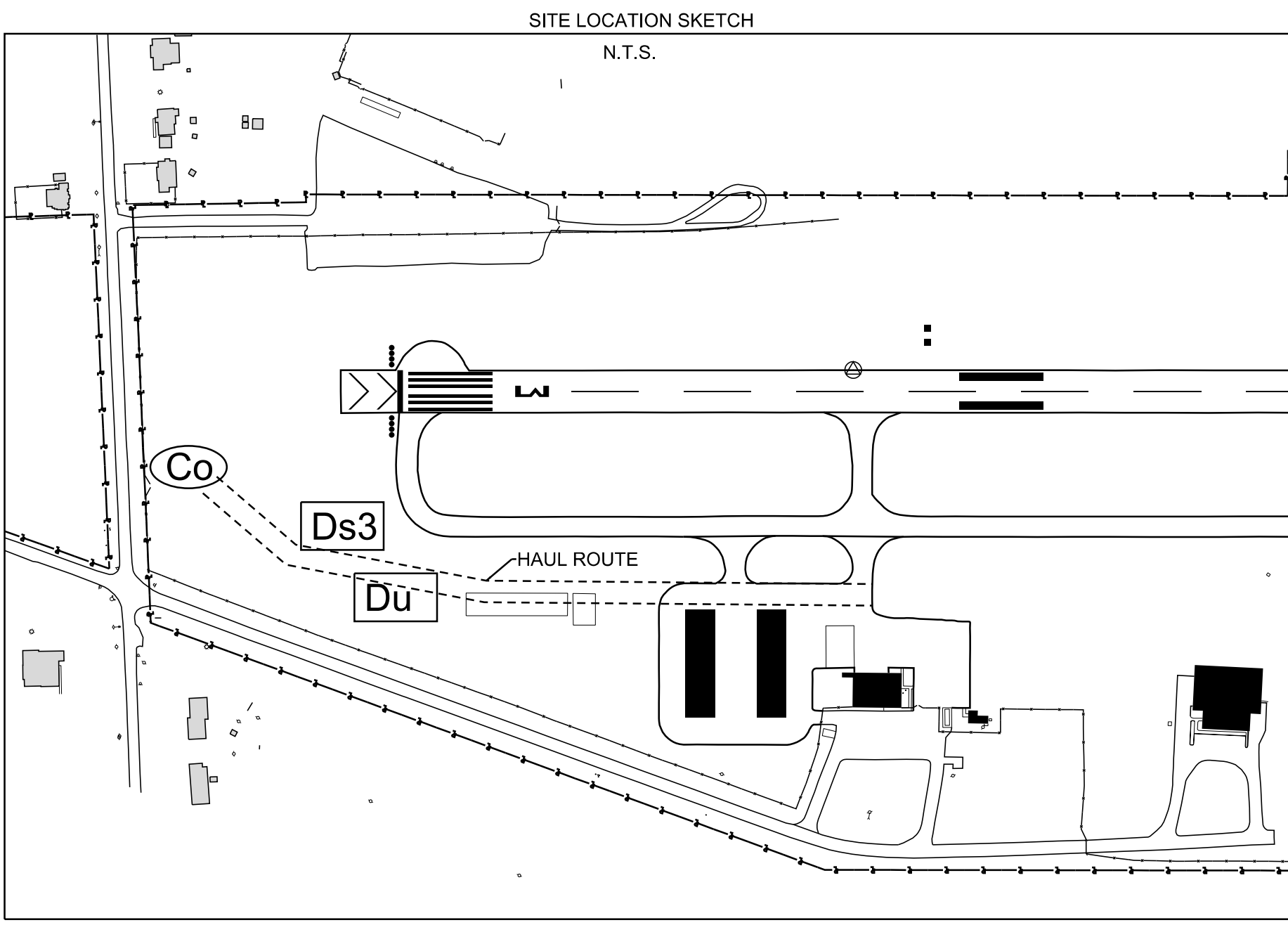
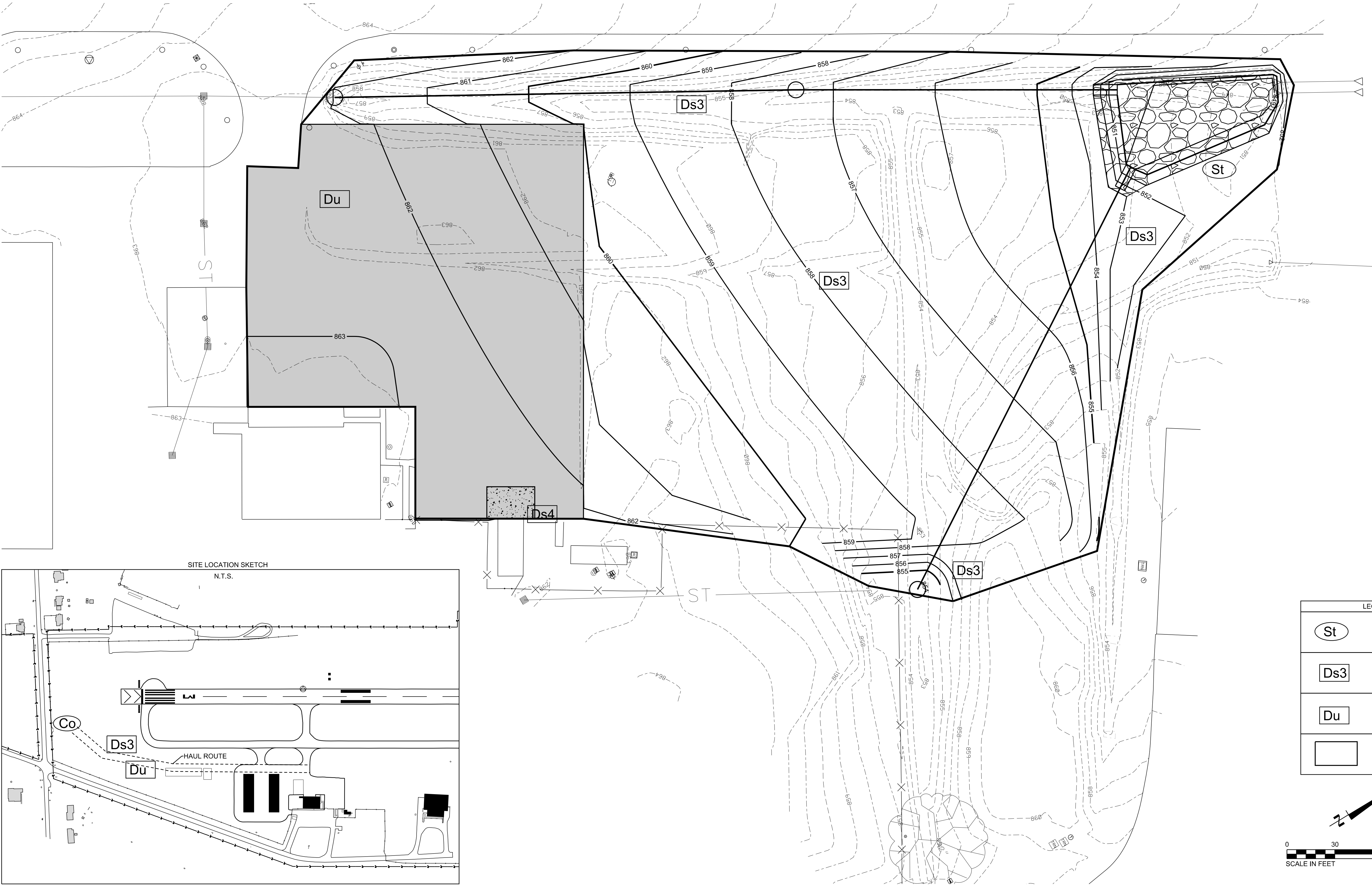
GRADING PHASE EROSION CONTROL PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION	
REV.	DESCRIPTION
DR. JEC	2-9-2018 ISSUED FOR 30% REVIEW
JEC	3-29-2018 ISSUED FOR 90% REVIEW
JEC	5-09-2018 ISSUED FOR BID

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DGN\$

RECEIVING WATER INFORMATION			
RECEIVING WATER	SAMPLING OUTFALLS	CONSTRUCTION SITE SIZE	SURFACE WATER DRAINAGE AREA
JACKS CREEK	2	3 AC	.15 SQ MI



LEGEND	
	STORM DRAIN OUTLET PROTECTION (RIP RAP)
	DISTURBED AREA STABILIZATION WITH PERM. SEEDING
	DUST CONTROL ON DISTURBED AREAS
	LIMITS OF DISTURBANCE



FINAL EROSION CONTROL PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION		
REV.	CHK.	DATE
JEC	DSD	2-9-2018
JEC	DSD	3-29-2018
JEC	DSD	5-09-2018

C2.43
FILE NO. 33843-06

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DGN\$

- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING AND/OR PERMANENT SEEDING.
- ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
- EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE SILT FENCE.
- ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
- ALL CATCH BASINS AND DROP INLETS ARE TO HAVE SD2 TEMPORARY TOPS UNTIL THE FINAL GRADE IS ESTABLISHED.
- SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 - TEMPORARY SILT FENCE, OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
- EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
- ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CURRENT PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- MAXIMUM CUT OR FILL SLOPES IS 2H:1V.
- SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL LAND DISTURBING ACTIVITY, MAINTENANCE AND INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES, COMPLYING WITH ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES LEVIED ON THE PROJECT DUE TO NON-COMPLIANCE WITH REGULATIONS IN THE AMOUNT OF THE FINE LEVIED PLUS AN EQUAL AMOUNT OF THE FINE LEVIED PAID TO THE OWNER FOR COORDINATION.

CHECKLIST #33
NTU VALUES FOR SAMPLING:
A TOTAL OF 2 SAMPLING POINTS HAVE BEEN IDENTIFIED FOR THIS CONSTRUCTION ACTIVITY. SAMPLE POINT LOCATIONS ARE IDENTIFIED AS FOLLOWS:

SAMPLE LOCATION #1 - UPSTREAM SAMPLE - IN THE EXISTING SWALE ON THE EAST SIDE OF THE SITE.

SAMPLE LOCATION #2 - DOWNSTREAM SAMPLE IN THE EXISTING SWALE DOWNSTREAM OF THE EXISTING DOUBLE 36" CMP CULVERT.

IN STREAM SAMPLING:
A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.J.

UPSTREAM SAMPLING POINTS DO NOT HAVE A NTU LIMIT.
DOWNSTREAM POINTS = 25 NTU DIFFERENCE FROM THE UPSTREAM NTU VALUE.

SAMPLING POINT LOCATIONS ARE SHOWN ON SHEET C2.41. SEE SHEET C2.46 FOR SAMPLING REQUIREMENTS AND RECORD KEEPING.

RATIONAL FOR NO SAMPLING: SAMPLING IS REQUIRED

APPENDIX B RATIONALE FOR OUTFALL SAMPLING POINTS WHERE APPLICABLE:
UPSTREAM/DOWNSTREAM SAMPLE POINTS USED, APPENDIX B NOT APPLICABLE.

PROJECT TITLE: CWW LAB
CHECKLIST #11, #15, #16, #22, #23:

1. CRITICAL/SENSITIVE AREAS
THE ESPCP MUST DELINEATE CRITICAL AREAS ON OR WITHIN 200 FEET OF THE PROJECT LIMITS; AND/OR PROVIDE A STATEMENT THAT CRITICAL AREAS DO NOT EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE. FOR THOSE WITHIN THESE LIMITS, THE ESPCP MUST PROVIDE A DESCRIPTION OF SPECIFIC BMPs TO PROTECT THESE AREAS.

• IMPAIRED WATERS (GEORGIA 303(D) LIST); NONE

ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMP'S THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.

SEE BELOW FOR THE FOUR ADDITIONAL BMP'S FROM APPENDIX 1 THAT ARE PROVIDED FOR THIS PROJECT.

IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.

• PROTECTED SPECIES (DNR MANUALS - OR ASSESSMENT REPORTS): NONE

• CULTURAL RESOURCES (I.E. HISTORICAL OR ARCHEOLOGICAL SITES, ETC); NONE
NO DIGGING OR VEHICLES ARE ALLOWED IN THESE AREAS. DELINEATIONS ARE TO BE IDENTIFIED ONLY AS "SENSITIVE AREA". DO NOT USE THE WORDS HISTORICAL OR ARCHEOLOGICAL SITES.

• WETLANDS: NONE

2. REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV)

• DESCRIBE IN THE ESPCP IF A SBV WILL BE REQUIRED FOR THE PROJECT. IF CONSTRUCTION IS TO TAKE PLACE IN A STATE WATER, THE ESPCP MUST SHOW STATE WATER SPECIFIC DIVERSION PLANS, PIPES, ETC. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE FEDERAL CLEAN WATER ACT.

____ STREAM BUFFER VARIANCE REQUIRED

 STREAM BUFFER VARIANCE NOT REQUIRED

NOTE: ALONG STREAM BANKS BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF (Sd1-S) SILT FENCE SHALL BE USED. THIS IS REGARDLESS THE WORK IS APPROVED UNDER A SBV OR EXEMPT FROM SBV.

SOME SBV WILL REQUIRE ADDITIONAL MEASUREMENTS TO ADDRESS LONG TERM WATER QUALITY; INCLUDING BUT NOT LIMITED TO REDUCTION OF TOTAL SUSPENSE SOLIDS AND TARGET POLLUTANTS.

CHECKLIST #15
NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25- FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURIDICIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

Development Reference:
DESIGN PROFESSIONAL: DARRELL DELANEY
BARGE DESIGN SOLUTIONS INC
2839 PACES FERRY RD. SE.
SUITE 850
ATLANTA, GEORGIA 30339
PHONE: (770) 628-7631

24 HOUR CONTACT: CHRIS BAILEY
PURCHASING AGENT
CITY OF MONROE
215 NORTH BROAD STREET
MONROE, LA 70065
770-266-5406

Design Professional's Certification:

(1) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

(3) I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED UPON 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.

(4) "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #45834

PRE CONSTRUCTION PHASE NOTES

(SEE PLANS FOR APPLICABILITY)

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

1. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.

2. CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF INITIAL PHASE BMPs.

3. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND TEMPORARY SEDIMENT TRAP (Sd4) SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN. INSTALL ANY DIVERSION DITCHES OR DRAINAGE CHANNELS TO BASIN AS SHOWN ON PLANS.

4. SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBANCE AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BANNER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

5. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE PLAN VIEW FOR SPECIFIC TYPE OF INLET PROTECTION REQUIRED.

6. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

9. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT TRAPS ARE CONSTRUCTED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.

10. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR AND RECORD THE ADDITIONS/CHANGES ON THE CURRENT PLAN SHEET.

11. WITHIN 7 DAYS OF STARTING INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. FAILURE OF OBTAINING THIS INSPECTION IS A DIRECT VIOLATION OF THE NPDES PERMIT.

INTERMEDIATE PHASE EROSION CONTROL NOTES

(SEE PLANS FOR APPLICABILITY)

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE INTERMEDIATE PHASE OF CONSTRUCTION:

1. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.

2. TEMPORARY SEDIMENT TRAP (Sd4) SHALL BE MAINTAINED AND CLEANED OUT WHEN SEDIMENT REACHES THE 1/3 VOLUME INDICATOR MARK.

3. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

4. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

6. INSTALL ROLLED SLOPE STABILIZATION BMP'S AS SHOWN ON THE PLANS.

7. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE OF INLET PROTECTION REQUIRED.

8. STONE/HAYBALE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

9. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

10. ANY LOOSE MATERIAL DEPOSITED ON EXISTING PAVEMENT SHALL BE BRUSHED OR BROOMED AND REMOVED ON A DAILY BASIS.

(SEE PLANS FOR APPLICABILITY)

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

1. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

2. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT TRAPS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 VOLUME INDICATOR MARK.

3. AFTER CLEARING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

4. ALL ROADWAY AND PARKING SHOULDERS AND LAWNS SHOULD BE APPLIED WITH PERMANENT VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

5. WHEN FINAL STABILIZATION OCCURS, THE CONTRACTOR SHALL REMOVE ALL SILT FENCES, CHECK DAMS AND INLET PROTECTION BARRIERS. SEE FINAL GRADING PLANS AND DETAILS FOR FINAL CONDITION OF PONDS AND WATER QUALITY DEVICES.

6. SEE LANDSCAPE PLANS FOR FINAL VEGETATIVE COVER.

CHECKLIST #3:

LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMP'S LISTED IN APPENDIX 1 OF THE CHECKLIST.

APPLICABLE: _____ NOT APPLICABLE: _____

CHECKLIST #38, #39:

USE OF ALTERNATIVE BMP'S WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMP'S AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION).

USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENTATION CONTROL IN GEORGIA 2016 EDITION.

APPLICABLE: _____ NOT APPLICABLE: _____

Final Phase
Erosion Control Notes:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASES OF CONSTRUCTION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.



EROSION CONTROL NOTES
 PROJECT# AP XXX-XXXX-XX(XXX) MONROE
 MONROE-WALTON COUNTY AIRPORT
 MONROE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION	ISSUED FOR 30% REVIEW	ISSUED FOR 90% REVIEW
	JEC	DSD	2-9-2018			
	JEC	DSD	3-29-2018			
	JEC	DSD	5-09-2018			

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)

This plan was prepared as required by NPDES General Permit No. GAR 100003. These plan sheets and all requirements of the General Permit as well as local, State, and Federal regulations or laws apply regardless of specific inclusion in this plan.

SITE DESCRIPTION

The Monroe-Walton County Airport Authority as Primary Permittee will oversee site construction located within the Property situated in Land Lots XXXX of the 13th District, Walton County, Georgia. Gross acreage of tract: XXXX acres more or less. The disturbed area is approximately 3 acres.

Describe Property to be Developed: The property to be developed is currently an asphalt apron, drainage swale, and lightly grassed field with one large tree. The area is to be cleared of all trees and brush.

Construction will begin with placement of inlet silt protection barriers and construction entrances. After these erosion control best management practices have been installed, clearing and grubbing of vegetation will commence in areas that are to be disturbed. After an area has been cleared and grubbed, that area is to be seeded and mulched immediately.

Zoning

This site is currently home to the Monroe-Walton Airport.

Survey Information

Boundary Information: The property line for the parcel is shown on Sheet C0.02.

NGS monument: None within 500 feet of Airport Property

Flood Insurance Rate Map for this area is not printed due to no special flood hazard areas existing.

Runoff Coefficient

- Weighted pre construction CN curve number: .55
-- Weighted post construction CN curve number: .55

Soil types

-- See Sheet C2.40

Soil Disturbing Activities include:

- Installing a stabilized construction exit, perimeter and other erosion and sediment controls
-- Clearing and Grading
-- Base and Asphalt Paving
-- Preparation for final planting and seeding.
-- Completion of on-site stabilization.

Name of Receiving Waters

--Jack's Creek

CONTROLS

Erosion and Sediment Controls

All perimeter silt fences and construction exits shall be in place prior to any land disturbing activities.

Existing vegetation shall be left in place until such time that land disturbing activities are to take place upon that portion of the site. When construction activities have ceased in an area, that area shall be stabilized within 14 days. If the area is not yet to final grade, it shall be mulched. If the area is to final grade and will eventually contain site improvements such as the structures of sidewalks, it shall be temporary seeded. Areas brought to final grade that will remain pervious are to be permanently seeded. Allowable exceptions from the NPDES General Permit, GAR 100003, are noted below.

"Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable."

"Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14th day after construction activity temporarily ceased."

Please refer to Detail Sheets for the land disturbance construction schedule and temporary and permanent grassing schedules.

Storm water from this development will be routed through the existing storm water system and grass swales to the existing lake (detention). The storm water will be discharged from the detention facilities to a tributary of Jacks Creek.

NON-STORM WATER DISCHARGES

All non-storm water discharges will be routed through on site BMPs and the storm water management system where possible. These discharges including flushing of water and fire lines, irrigation water, ground water, dewatering of pits or depressions within the construction site and rinse off water of non-toxic materials.

OTHER CONTROLS

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

Waste Materials

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

Hazardous Wastes

All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

Sanitary Wastes

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the Erosion Control Plan, Sheet C2.41, by the contractor once the locations have been determined.

Offsite Vehicle Tracking

A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. See Sheet Erosion Control Detail Sheet for construction exit location and details. The paved street adjacent to the site exit will be inspected daily for tracking of mud, dirt or rock. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

INVENTORY FOR POLLUTION PREVENTION PLAN

The following materials are expected onsite during construction: Concrete products, asphalt, petroleum based fuels and lubricants for equipment, tar, metal building materials, lumber, sheetrock, floor coverings, electrical wire and fixtures, paints, paint solvents, additives for soil stabilization, clearing solvents, pesticides, fertilizers, herbicides, crushed stone, and concrete pipes.

SPILL PREVENTION

Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices will be followed to reduce the risk of spills and spills from discharging into storm water runoff.

Good Housekeeping

- 1. Quantities of products stored onsite will be limited to the amount needed for the job.
2. Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible.
3. Products will be kept in their original containers with manufacturer labels legible and visible.
4. Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.
5. The Contractor will inspect such materials to ensure proper use, storage and disposal.

Product Specific Practices

Petroleum Based Products - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Spill Cleanup and Control Practices

- 1. Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
2. Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to, brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly labeled plastic and metal waste containers.
3. Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
4. All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.
5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESOURCE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 650 gallons. The contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

INSPECTIONS

Primary Permittee.

- 1. Each day when any type of construction activity has taken place at a primary permittee's site, qualified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each twenty-four hour period at the site. These inspections must be conducted until a Notice of Termination is submitted.
2. Qualified personnel (provided by the primary permittee) shall inspect at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater the following: (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.3.a.(3). These inspections must be conducted until a Notice of Termination is submitted.
3. Qualified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
4. Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The primary permittee must amend the Plan in accordance with Part IV.3.b.(4), when a secondary permittee notifies the primary permittee of any Plan deficiencies.
5. A report (i.e., not individual inspection forms) summarizing the scope of each inspection and the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan and actions taken in accordance with part V.A.6.a.(4) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit.

Secondary Permittee. (See List of Permittee's this Sheet)

- 1. Each day when any type of construction activity has taken place at a secondary permittee's site, qualified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.
2. Qualified personnel (provided by the secondary permittee) shall inspect at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater the following: (a) disturbed areas of the secondary permittee's construction site that have not undergone final stabilization; (b) areas used by the secondary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the secondary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.3.b.(3). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations.
3. Qualified personnel (provided by the secondary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of their sites that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage systems and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

- 4. Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24-hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48-hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address those deficient BMP's within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48-hour of notification by the primary permittee.
5. A report (i.e., not individual inspection forms) summarizing the scope of the inspection and the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan and actions taken in accordance with Part IV.D.3.b.(4) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations.

An "Erosion and Sedimentation Inspection and Maintenance Report" sheet is attached. Should the inspection reveal any deficiencies, a copy of the report shall be sent to:

ATTN: MONROE-WALTON COUNTY AIRPORT AUTHORITY
ATTN: Darrell S. DeLaney, P.E.
Barge Design Solutions Inc
2839 Paces Ferry Rd, SE
Suite 850
Atlanta, GA 30339
(770) 628-7631

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

Maintenance

The following best management practice maintenance criteria are taken from the "Manual for Erosion and Sediment Control in Georgia", Fifth Edition.

Construction exits shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5 - 3.5 inch stone, as conditions demand, and repair and/or cleanup of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been lost.

Sediment shall be removed from silt fences once it has accumulated to one-half the original height of the barrier. Filter fabric shall be replaced whenever it has deteriorated to such an extent that the effectiveness of the fabric is reduced (approximately 6 months).

Sediment shall be removed from sediment traps when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation.

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Repair oil damages caused to temporary sediment basins by soil erosion or construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. Sediment shall not enter adjacent streams or drainage ways during sediment removal or disposal. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain.

Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place of if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and seeding growth.

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

Permanent vegetation shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unvegetated areas and areas not covered by permanent structures, at least 70% of the soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

STORMWATER SAMPLING

SAMPLE ANALYSIS

Storm water samples are to be analyzed in accordance with the methodology and test procedures established by 40 CFR Part 136 and the guidance document title "NPDES Storm Water Sampling Guidance Document, DPA 833-B-92-001"

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 25, the value that was selected from Appendix B in permit no. GAR 100001. The NTU is based upon the disturbed acreage of 43 acres for the project site, the surface water drainage area of 5 square miles, and receiving water which supports warm water fisheries.

Sample Type

All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

Per NPDES Permit, GAR 100001, "Sample containers should be labeled prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. Large mud, well-cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination, manual, automatic or rising stage sampling may be utilized.

Sampling Points

There will be 8 storm water sampling locations numbered 1 through 8. Sampling locations numbered 1 through 5 will be upstream sampling points. Sampling location numbers 6-8 will be the downstream sampling points. Per NPDES Permit GAR 100001, for construction activities, the Primary Permittee must complete all sampling.

Appendix B was used to determine the NTU units allowable and upstream and downstream sampling will be performed on this project.

- Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
-- The sampling container should be held so that the opening faces upstream.
-- The samplings should be kept free from floating debris.
-- The Primary Permittee does not have to sample sheet flow onto undisturbed natural areas or areas stabilized by the project.

Sampling Frequency

Storm water samples shall be taken for the following storm events:

- (a) For each area of the site that discharges to a receiving stream, the first rain event that reached or exceeds 0.5 inch and allows for monitoring during normal business hours (Monday through Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM when construction activity is being conducted by the Primary Permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the sampling location; (b) In addition to (a) above, for each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours that occurs either 90 days after the first sampling event or after all mass grading operations have been completed in the drainage area of the location selected as the sampling location, whichever comes first; (c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs are found to be properly designed, installed and maintained, no further action is required. If BMPs in any area of the site that discharges to a receiving stream are not properly designed, installed and maintained, corrective action shall be defined and implemented within 2 business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.

RETENTION OF RECORDS

The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all monitoring information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit.

Each secondary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by this permit;
c. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit; and
d. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit.

Each tertiary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD; and
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all monitoring information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.c. of this permit; and
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit.
g. Daily rainfall information collected in accordance with Part IV.D.4.c.(1)(c) of this permit.

Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

REPORTING

A monthly summary of the monitoring results shall be sent to The Monroe-Walton County Airport Authority and BDS by the 15th of each month. The report summary shall include:

- The name, exact place, and time of sampling or measurements;
-- The name(s) of the individual(s) who performed the sampling and measurements;
-- The date(s) analyses were performed;
-- The time(s) analyses were initiated;
-- The name(s) of the individuals who performed the analyses;
-- References and written procedures, when available, for the analytical techniques or methods used. A quality control/quality assurance program must be included in the written procedure;
-- The results of each analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results. If no quality control events occurred within a monthly monitoring period, a report must be submitted stating such. Addresses are provided below:

ATTN: Walton County Airport Authority
215 North Broad Street
Monroe, GA 30655
(770) 266-5406
ATTN: Darrell S. DeLaney
Barge Design Solutions
Overlook II
2839 Paces Ferry Road SE
Atlanta, GA 30339
(770) 628-7645

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The contractor will obtain copies of any and all local and state regulations that are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The contractor will submit written evidence of such compliance if requested by the Owner or any agent of a regulatory body. The contractor will comply with all conditions of any and all local, state and federal agencies having governing authority, including the conditions related to maintaining the ESPCP and evidence of compliance with the ESPCP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

CERTIFICATION

"I certify that the Permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and a comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia." (Manual) published by the state Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices meets the design requirements contained in the general NPDES Permit No. GAR 100001."

Certified By

SECONDARY PERMITTEES

NOTE: THIS MASTER LIST TO BE COMPLETED AND SIGNED, KEPT IN THE "ON-SITE" CONSTRUCTION TRAILER

SECONDARY PERMITTEES SIGN WHEN RECEIVING PLANS, ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOI AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITY.

Name: Phone:
Company: Fax:
Address:
GSWCC LEVEL IA CERTIFICATION NO. Signature

Name: Phone:
Company: Fax:
Address:
GSWCC LEVEL IA CERTIFICATION NO. Signature

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION
I Certify the site was in compliance with the ESAPC Plan on the date of inspection.

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

Inspection revealed the following discrepancies from the ESAPC Plan.

These deficiencies must be addressed immediately and a re-inspection scheduled. Work shall not proceed on the site until design Professional Certification is obtained.

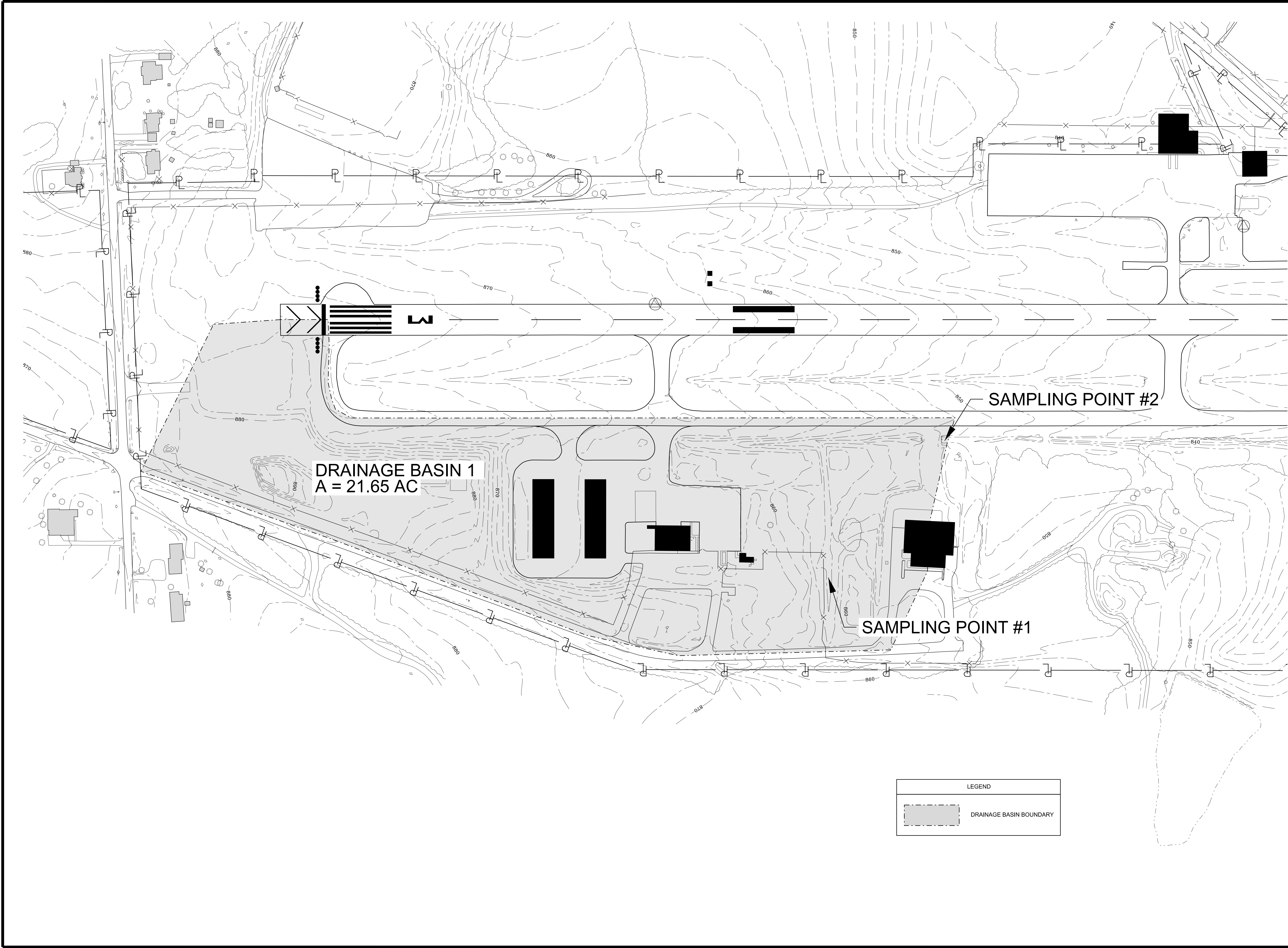


EROSION CONTROL NOTES
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

Table with columns: REV., DR., JEC, DSD, DATE, DESCRIPTION, ISSUED FOR 30% REVIEW, ISSUED FOR 90% REVIEW, ISSUED FOR BID

C2.46
FILE NO. 33843-06

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DRAINAGE BASIN 1
A = 21.65 AC

SAMPLING POINT #2

SAMPLING POINT #1

LEGEND	
	DRAINAGE BASIN BOUNDARY



DRAINAGE BASIN DELINEATION
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

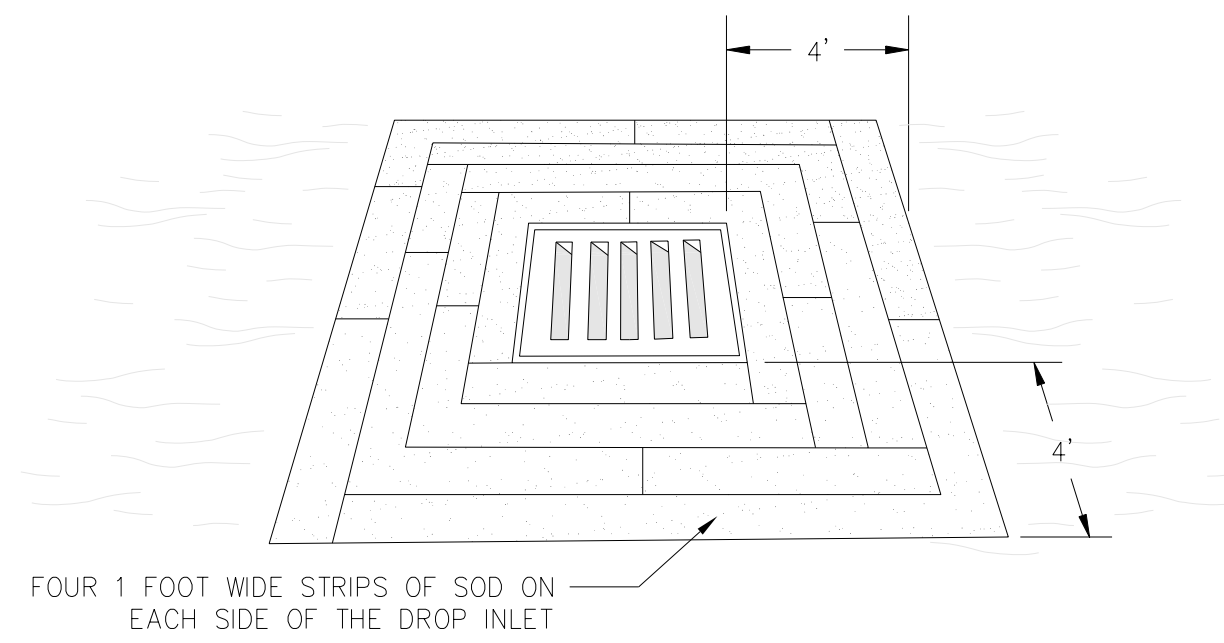
REVISION INFORMATION	
REV.	DESCRIPTION
JEC	ISSUED FOR 30% REVIEW
JEC	ISSUED FOR 90% REVIEW
JEC	ISSUED FOR BID

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FILE NO. 33843-06

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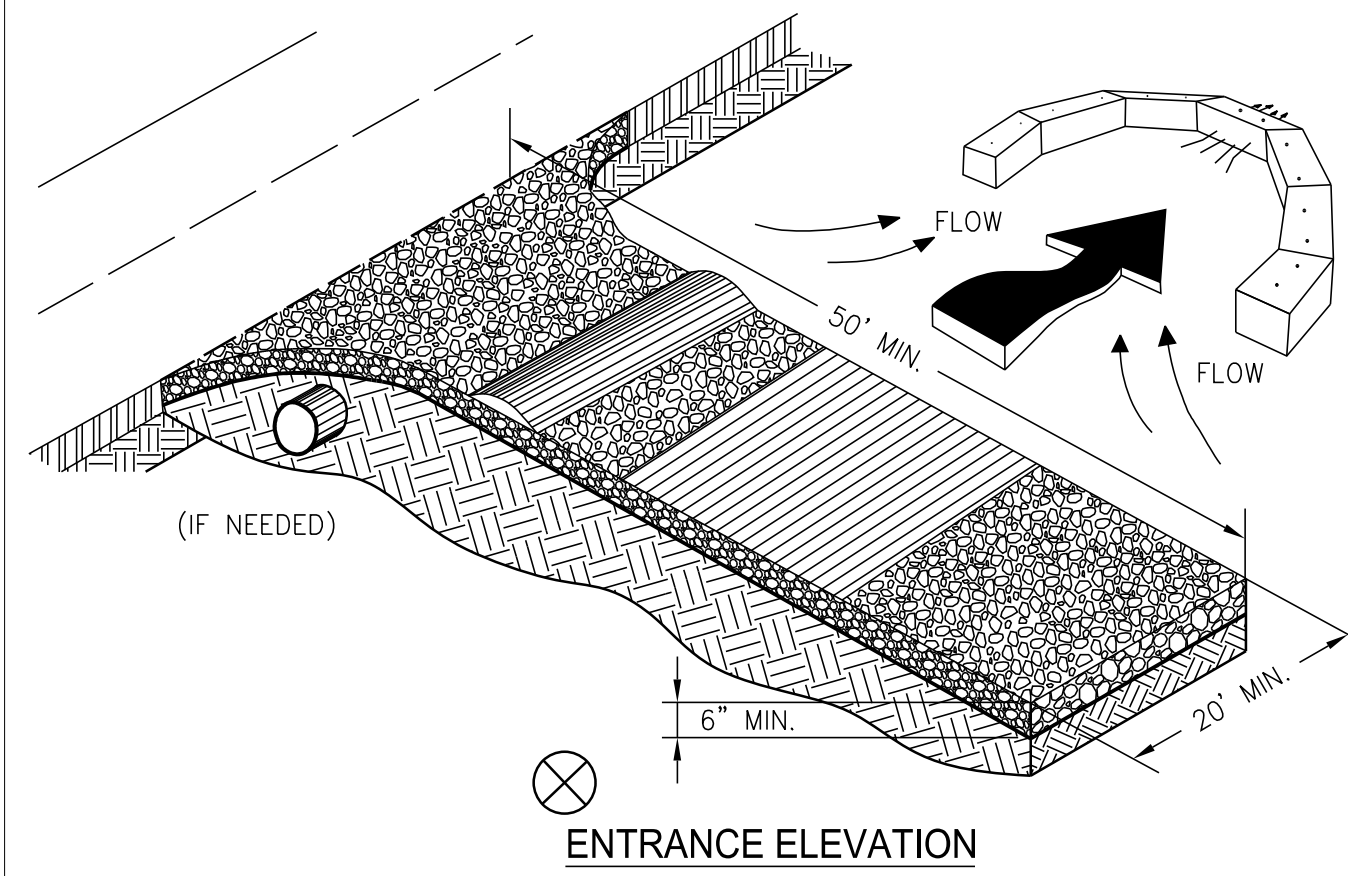
INLET SEDIMENT TRAP

SOD STRIPS PROTECT INLET AREA FROM EROSION
(SOURCE: VA SWCC)



CRUSHED STONE CONSTRUCTION EXIT

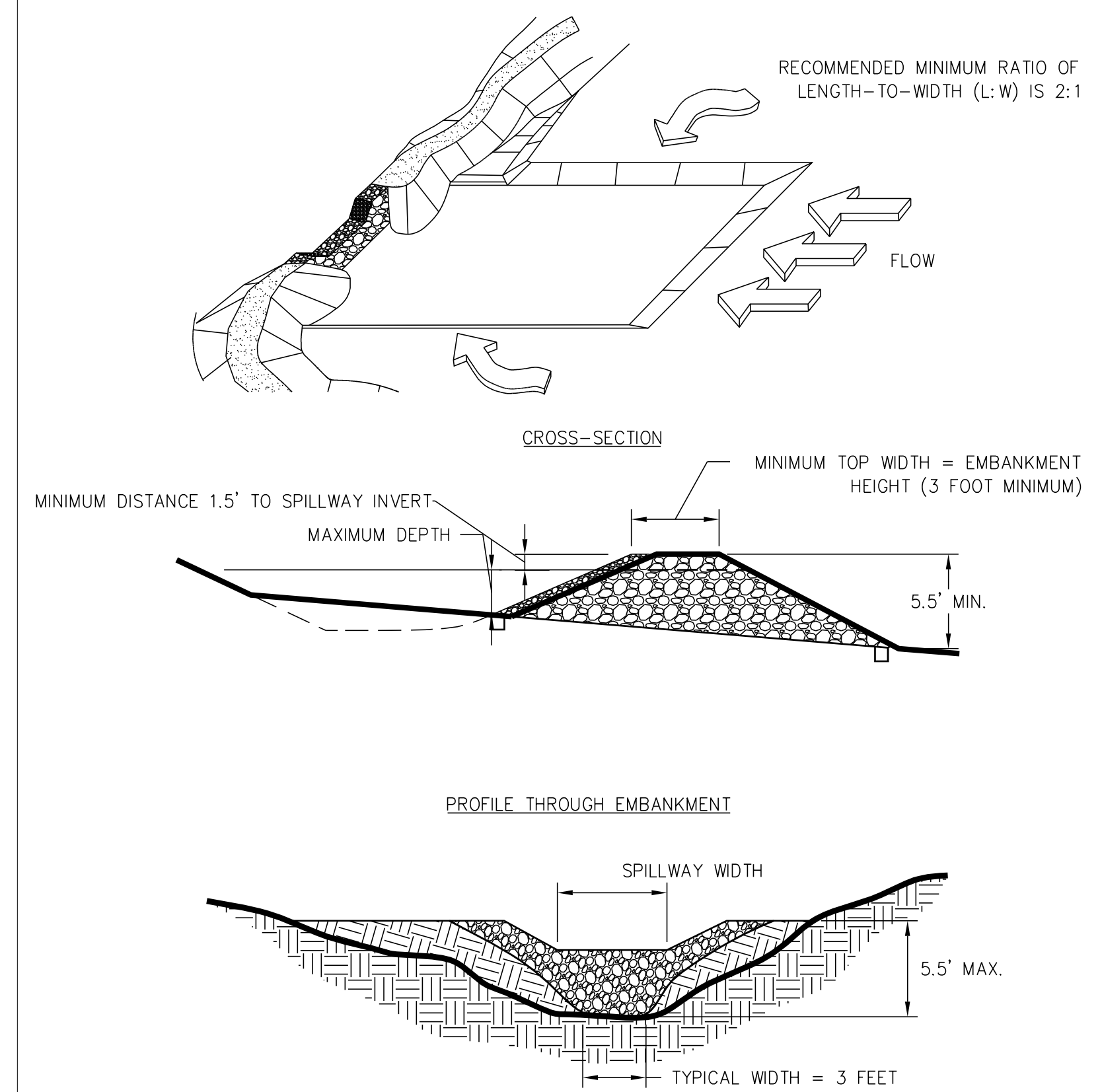
EXIT DIAGRAM



- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

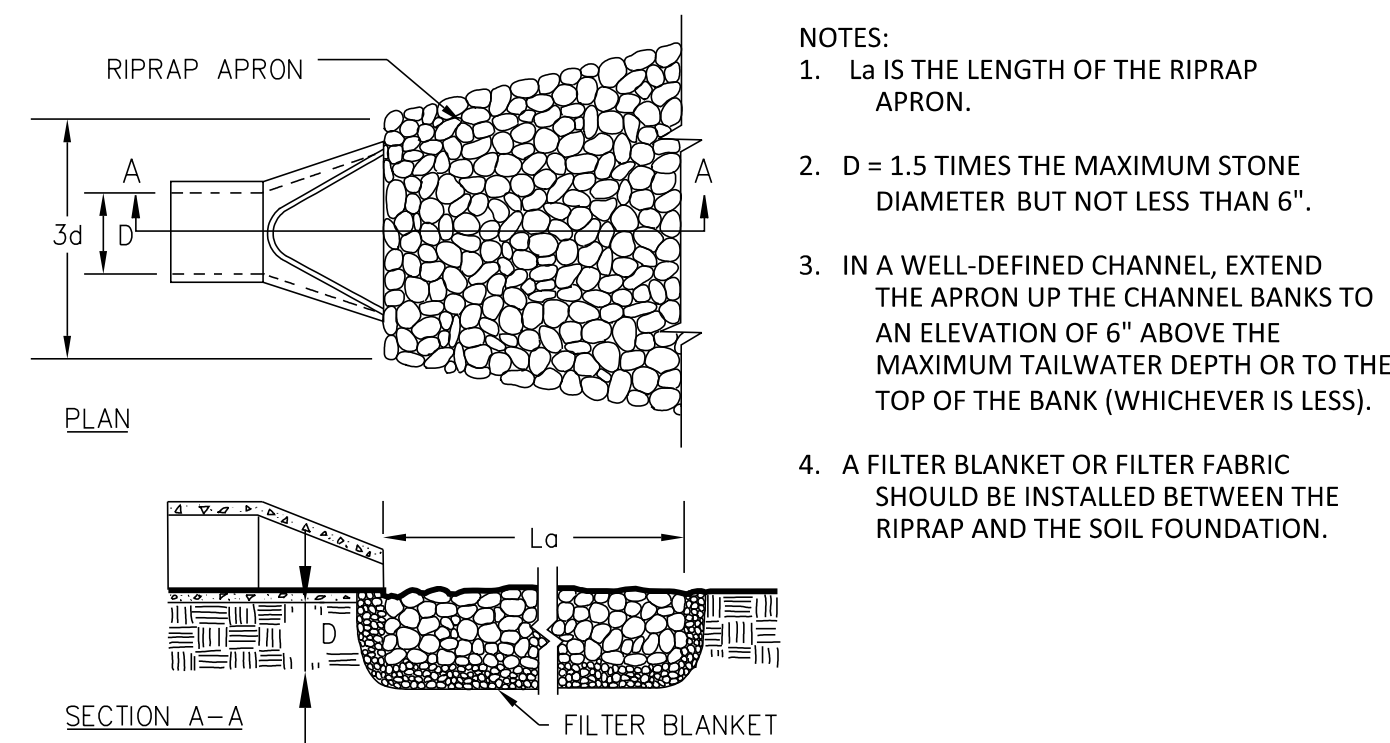
TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT
ROCK OUTLET

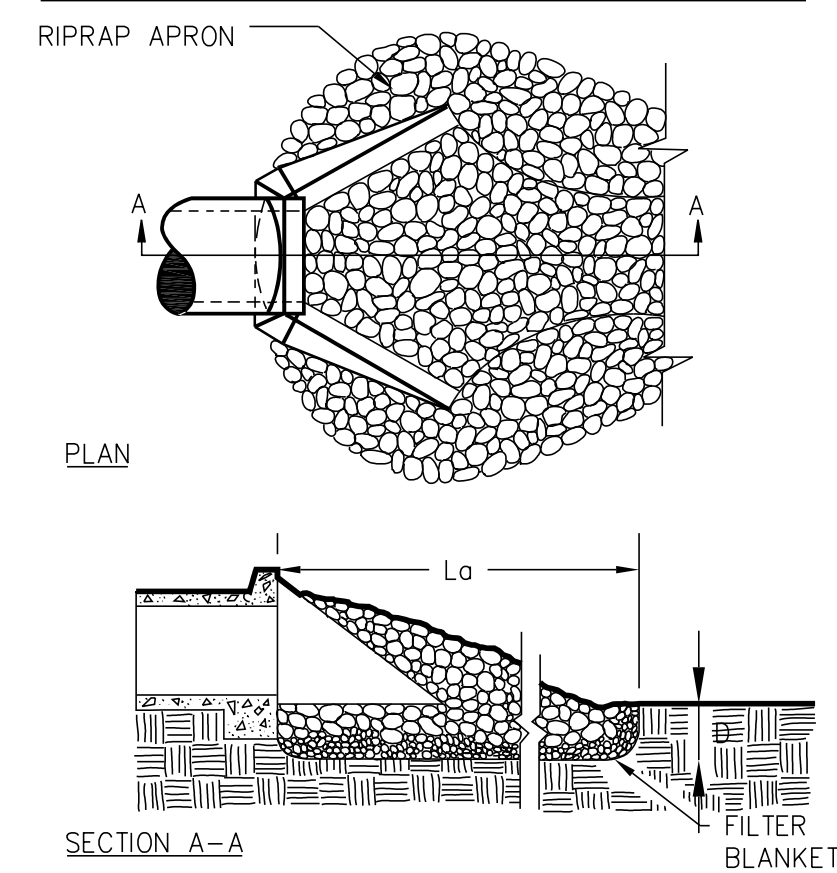


RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PIPE OUTLET TO WELL DEFINED CHANNEL



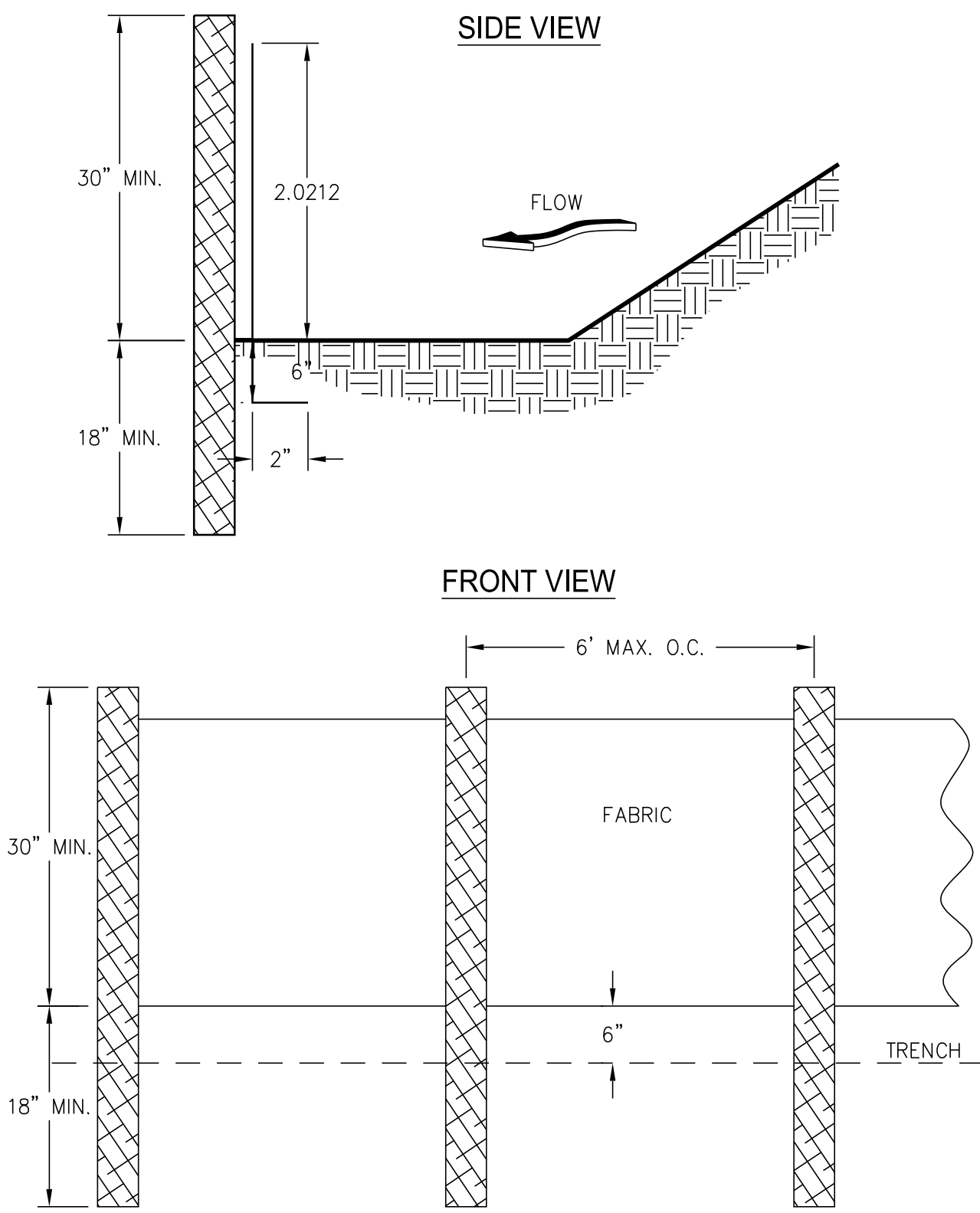
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.

EROSION CONTROL NOTES

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION		DATE	DESCRIPTION
REV.	CHK.	DATE	DESCRIPTION
JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
JEC	DSD	5-09-2018	ISSUED FOR BID

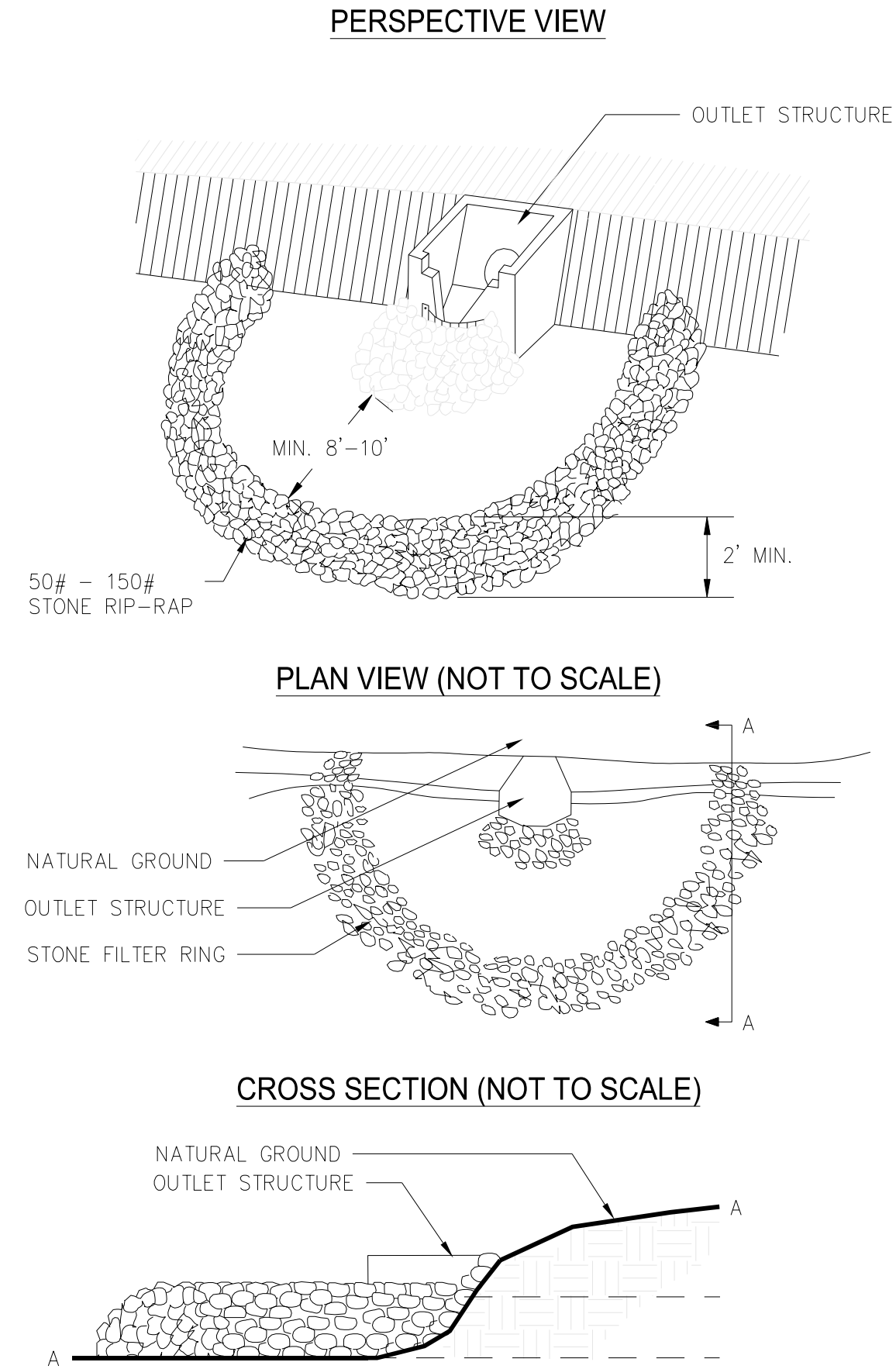
SILT FENCE - TYPE NON-SENSITIVE



NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

STONE FILTER RING



EROSION CONTROL NOTES

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION	
REV.	DESCRIPTION
DR. JEC	ISSUED FOR 30% REVIEW
CHK. DSD	ISSUED FOR 90% REVIEW
REV. JEC	ISSUED FOR BID

C2.49

FILE NO. 33843-06

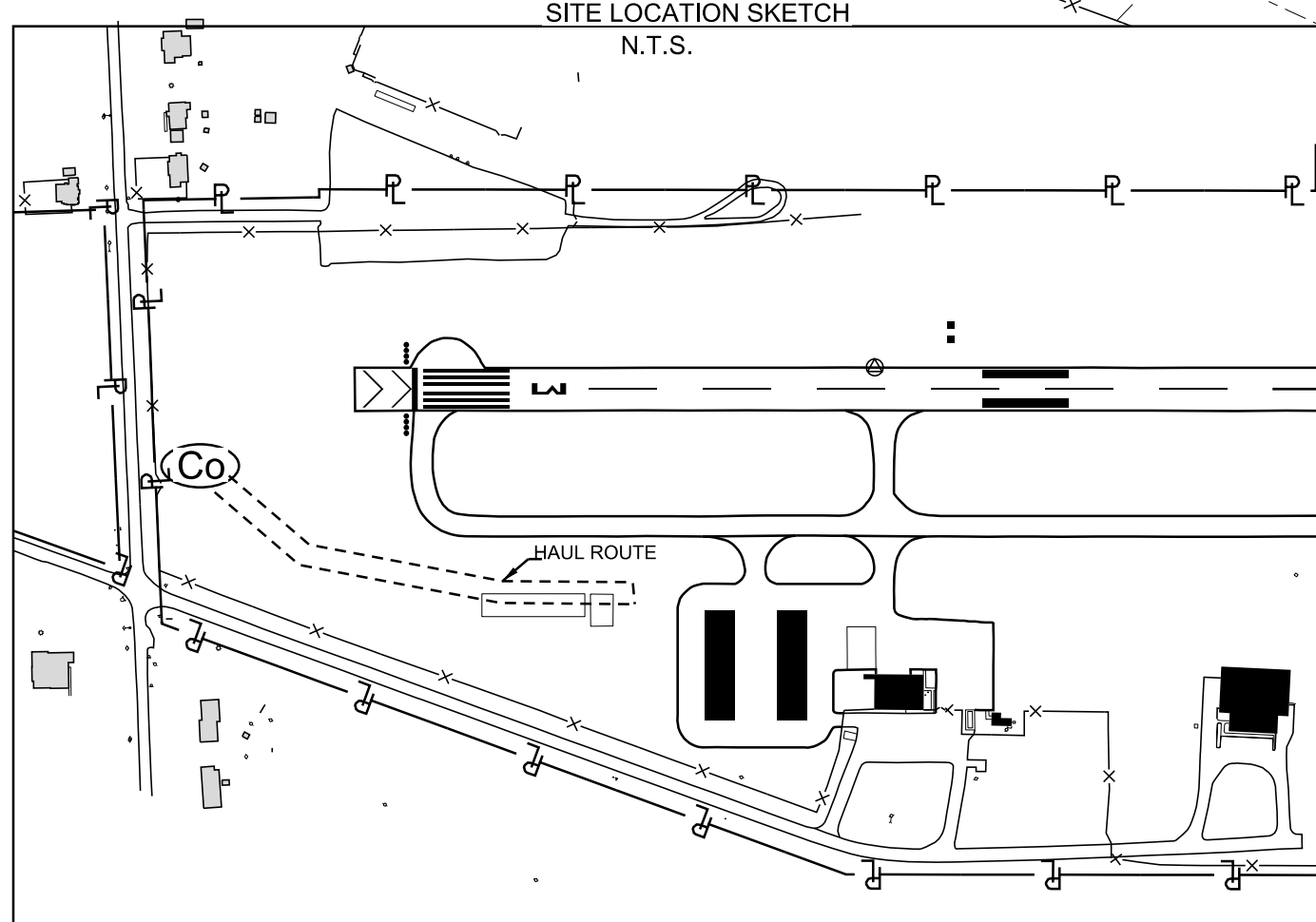
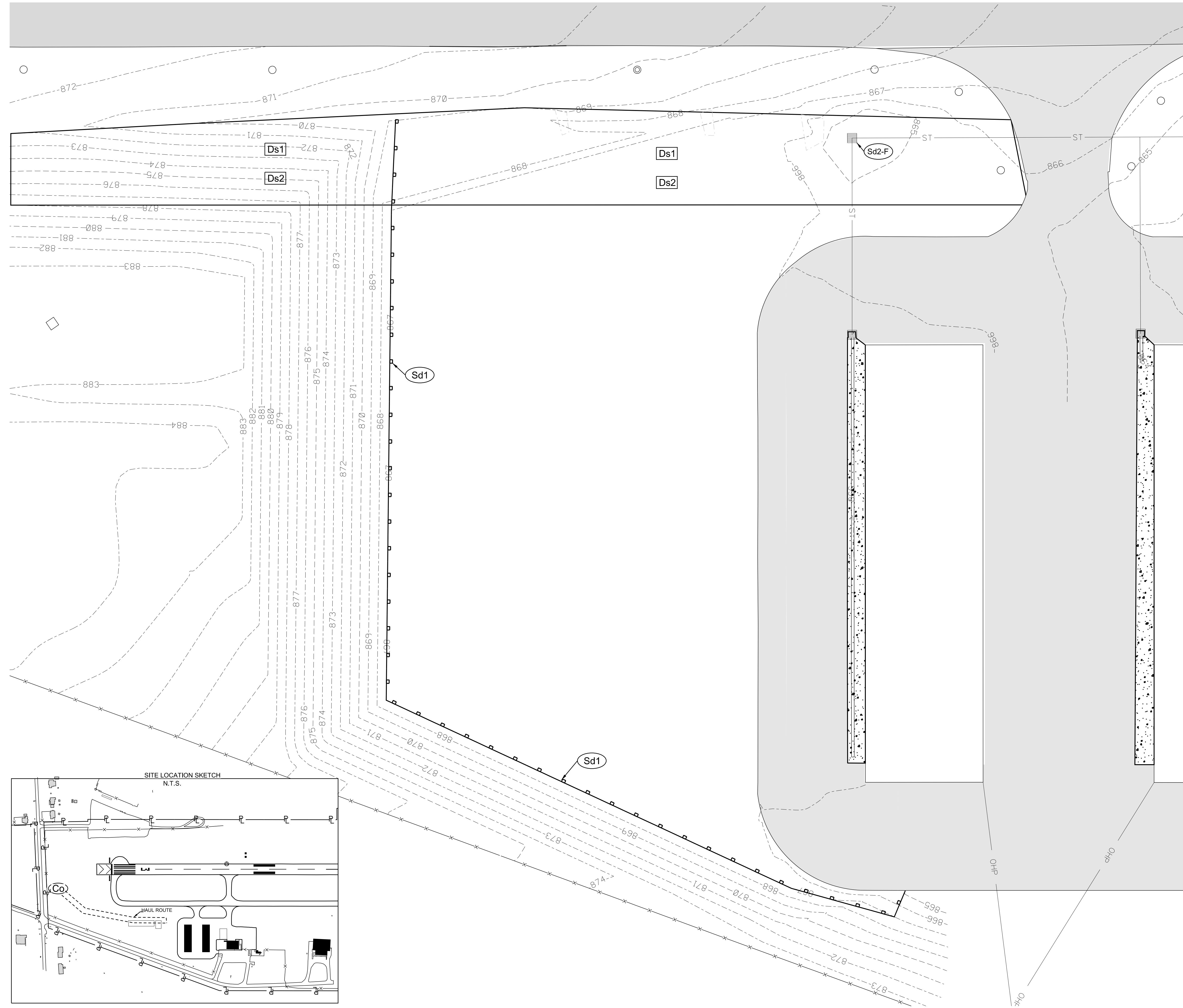
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ALT#4 - PRE-CONSTRUCTION EROSION CONTROL PLAN

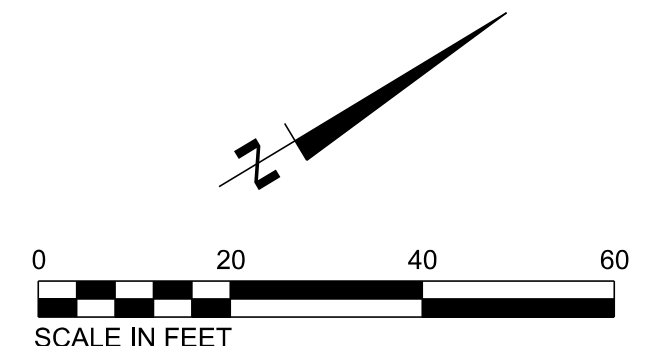
**PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT**
MONROE, GEORGIA



LEGEND

Ds1	DISTURBED AREA STABILIZATION WITH MULCHING
Ds2	DISTURBED AREA STABILIZATION WITH TEMP. SEEDING
Sd1	TEMPORARY SILT FENCE
Co	CONSTRUCTION EXIT
[Solid Line]	LIMITS OF DISTURBANCE
Sd2-F	INLET SEDIMENT TRAP

- NOTES:
1. THE TOTAL AREA OF DISTURBANCE IS 2.75 AC.
 2. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
 3. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.



REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
	JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
	JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
	JEC	DSD	5-09-2018	ISSUED FOR BID

C2.50

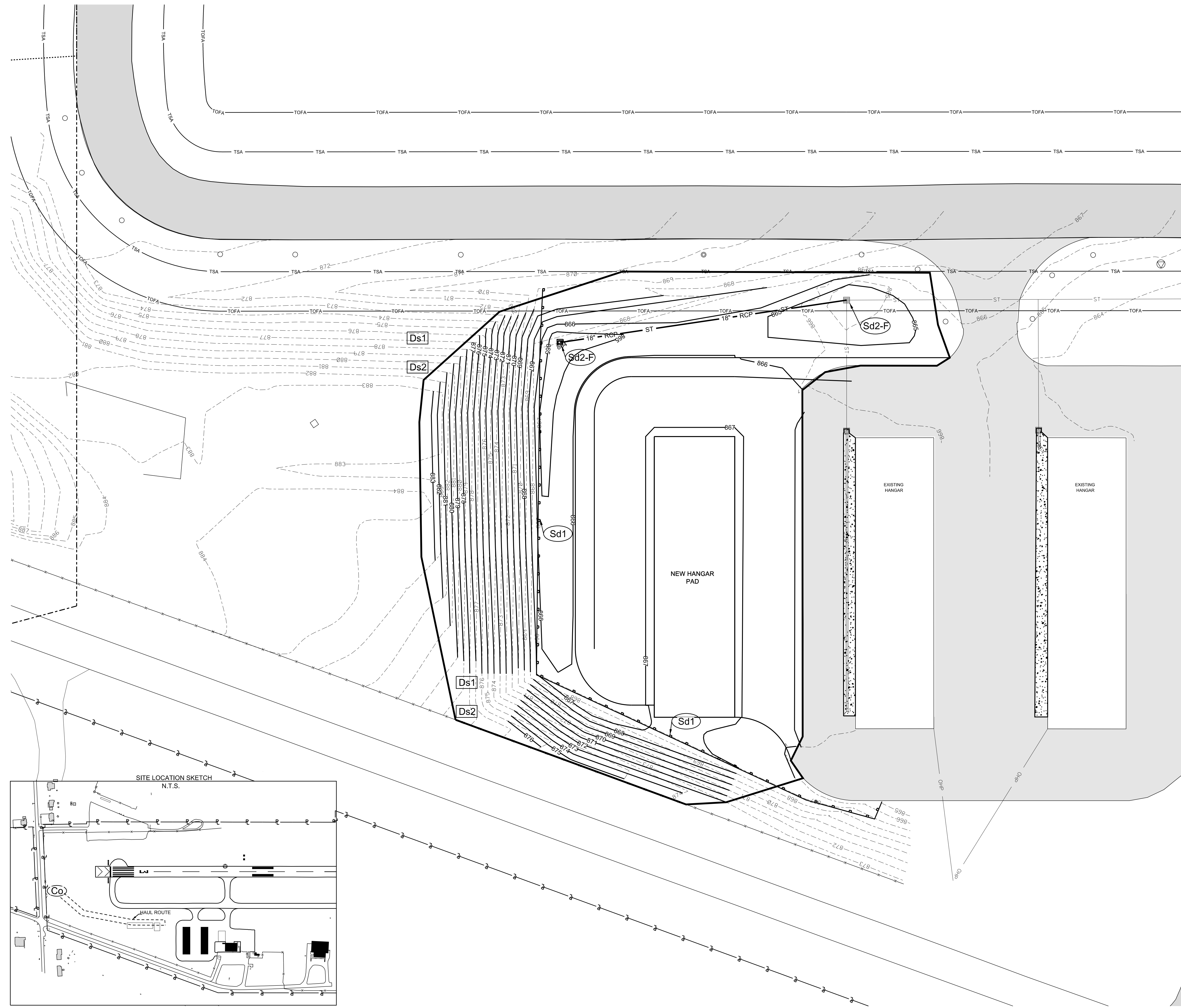
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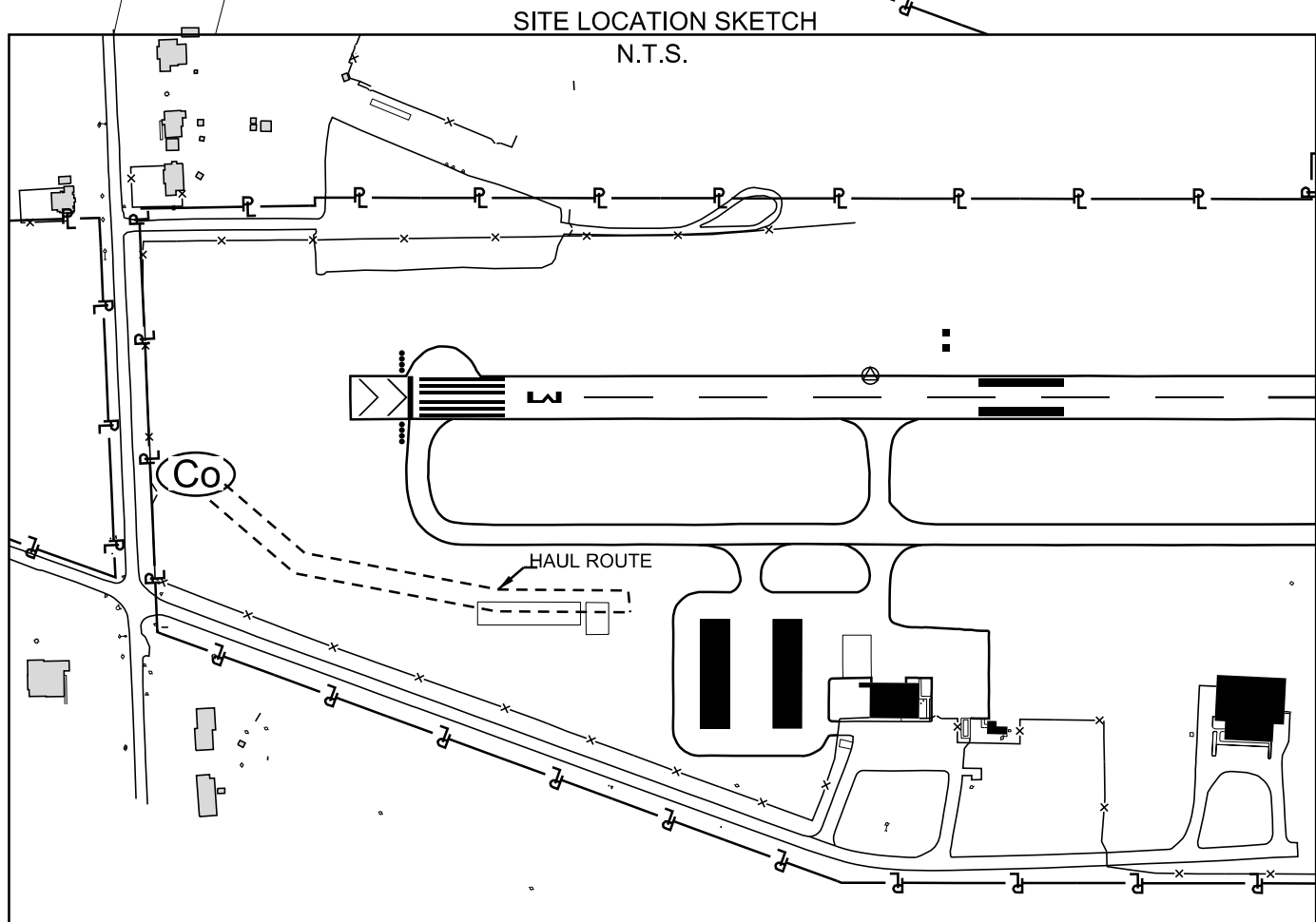
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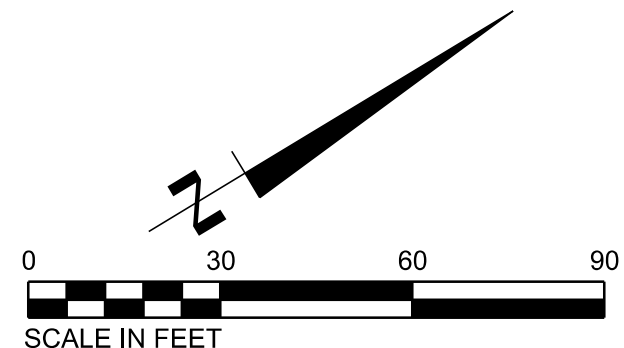
ALT #4 - GRADING PHASE EROSION CONTROL PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA



LEGEND	
Ds1	DISTURBED AREA STABILIZATION WITH MULCHING
Ds2	DISTURBED AREA STABILIZATION WITH TEMP. SEEDING
Sd1	TEMPORARY SILT FENCE
Co	CONSTRUCTION EXIT
[Box]	LIMITS OF DISTURBANCE
Du	DUST CONTROL ON DISTURBED AREAS
Sd2-F	INLET SEDIMENT TRAP



- NOTES:
1. THE TOTAL AREA OF DISTURBANCE IS 3.5 AC.
 2. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
 3. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.



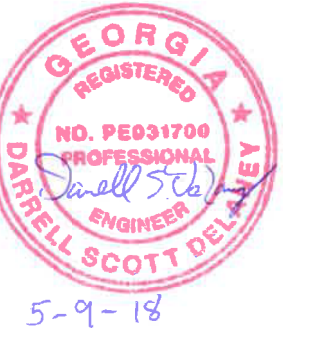
REVISION INFORMATION	
REV.	DESCRIPTION
DR. JEC	ISSUED FOR 30% REVIEW
DR. JEC	ISSUED FOR 90% REVIEW
DR. JEC	ISSUED FOR BID

C2.51

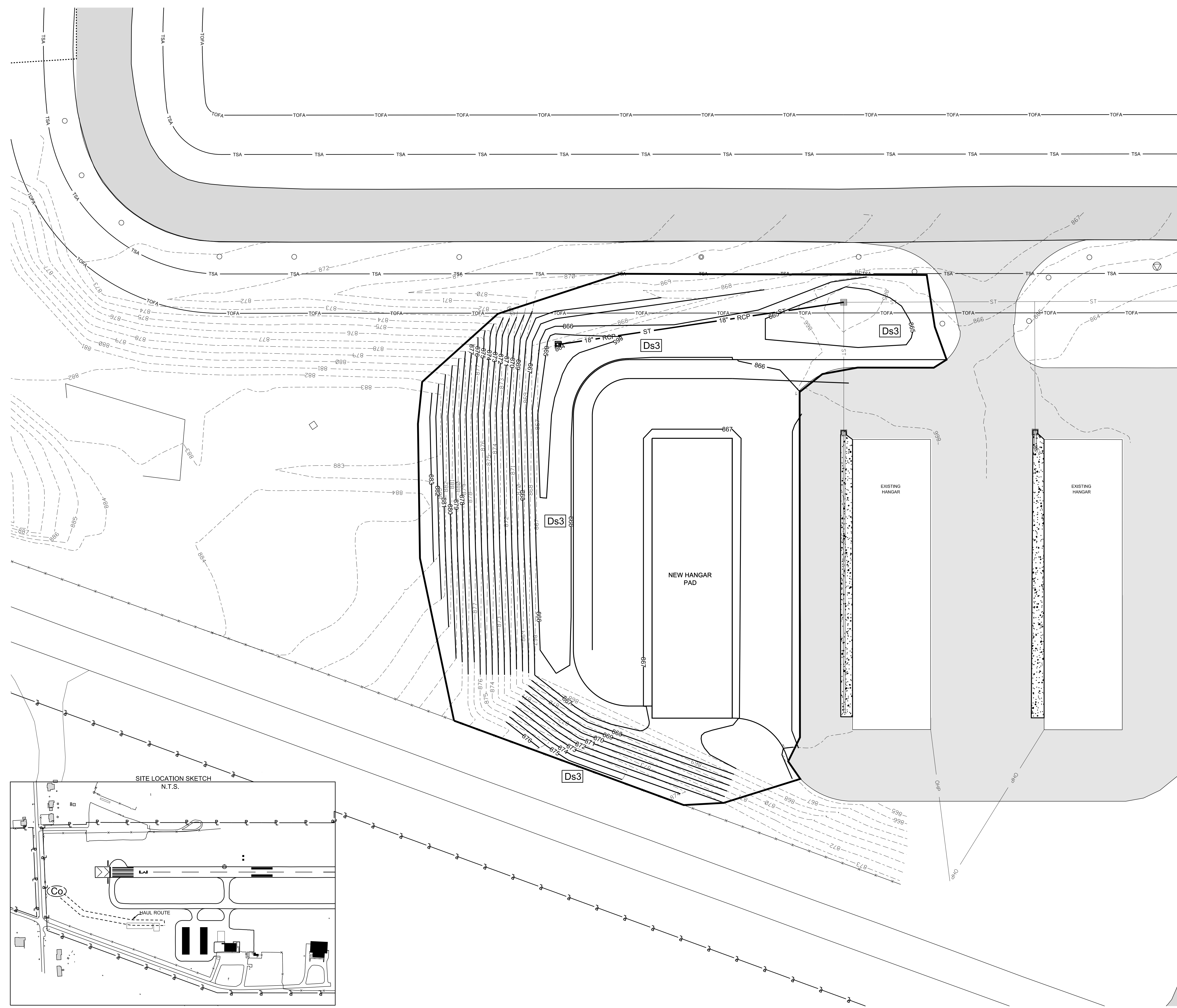
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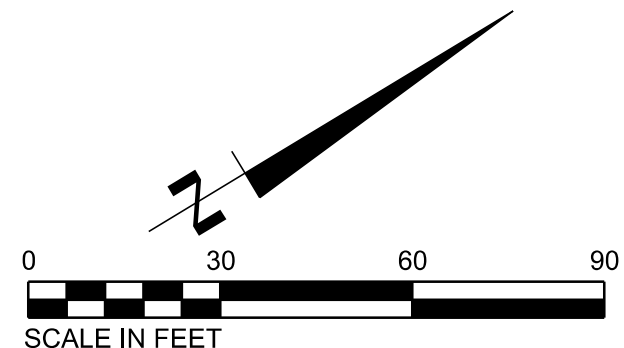
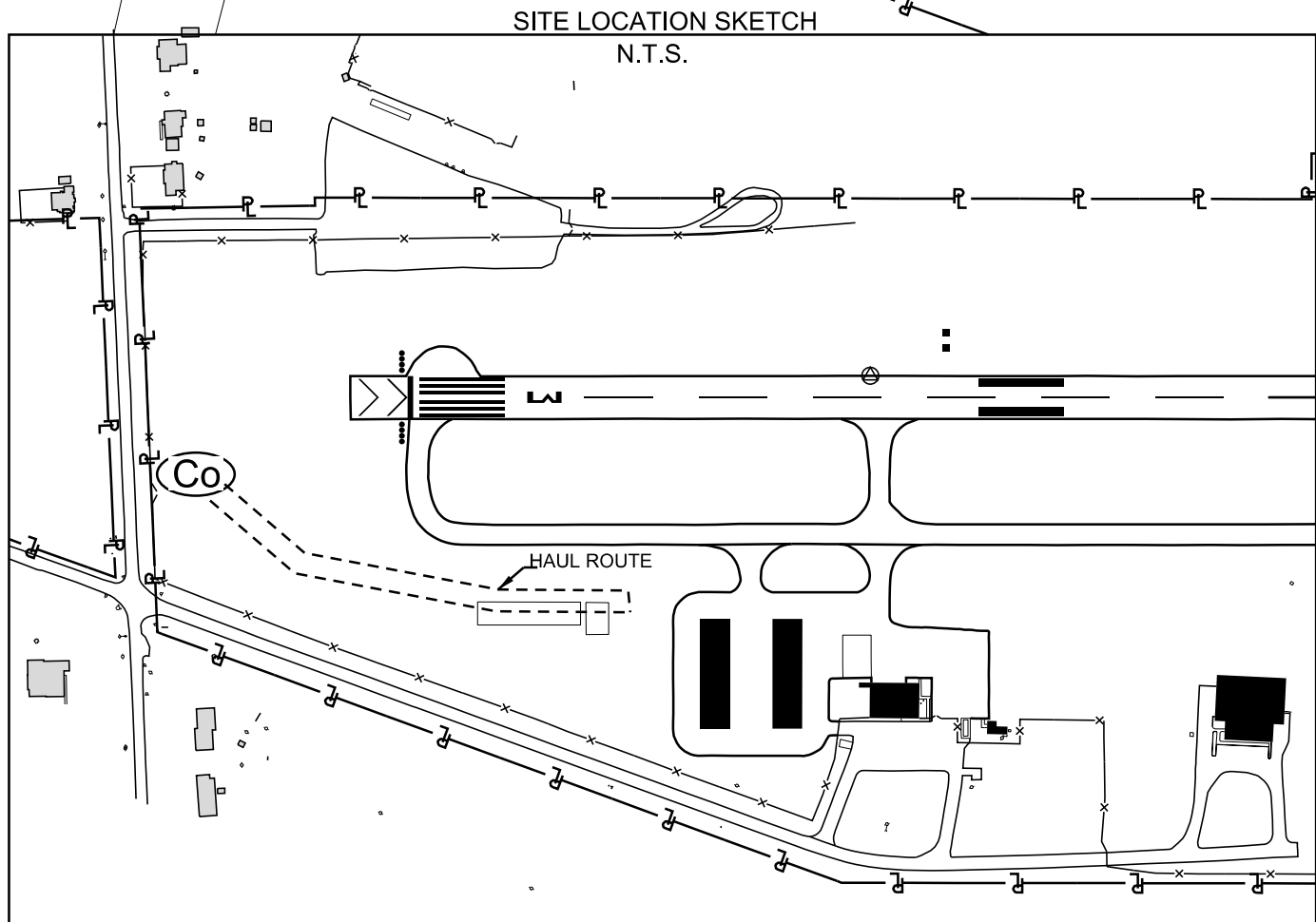
ALT #4 - FINAL EROSION CONTROL PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA



LEGEND

Ds3	DISTURBED AREA STABILIZATION WITH PERM. SEEDING
Co	CONSTRUCTION EXIT
[Box]	LIMITS OF DISTURBANCE
Du	DUST CONTROL ON DISTURBED AREAS

- NOTES:**
1. THE TOTAL AREA OF DISTURBANCE IS 3.5 AC.
 2. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
 3. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.



REVISION INFORMATION

REV.	CHK.	DATE	DESCRIPTION
JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
JEC	DSD	5-09-2018	ISSUED FOR BID

C2.52

FILE NO. 33843-06

5/15/2018
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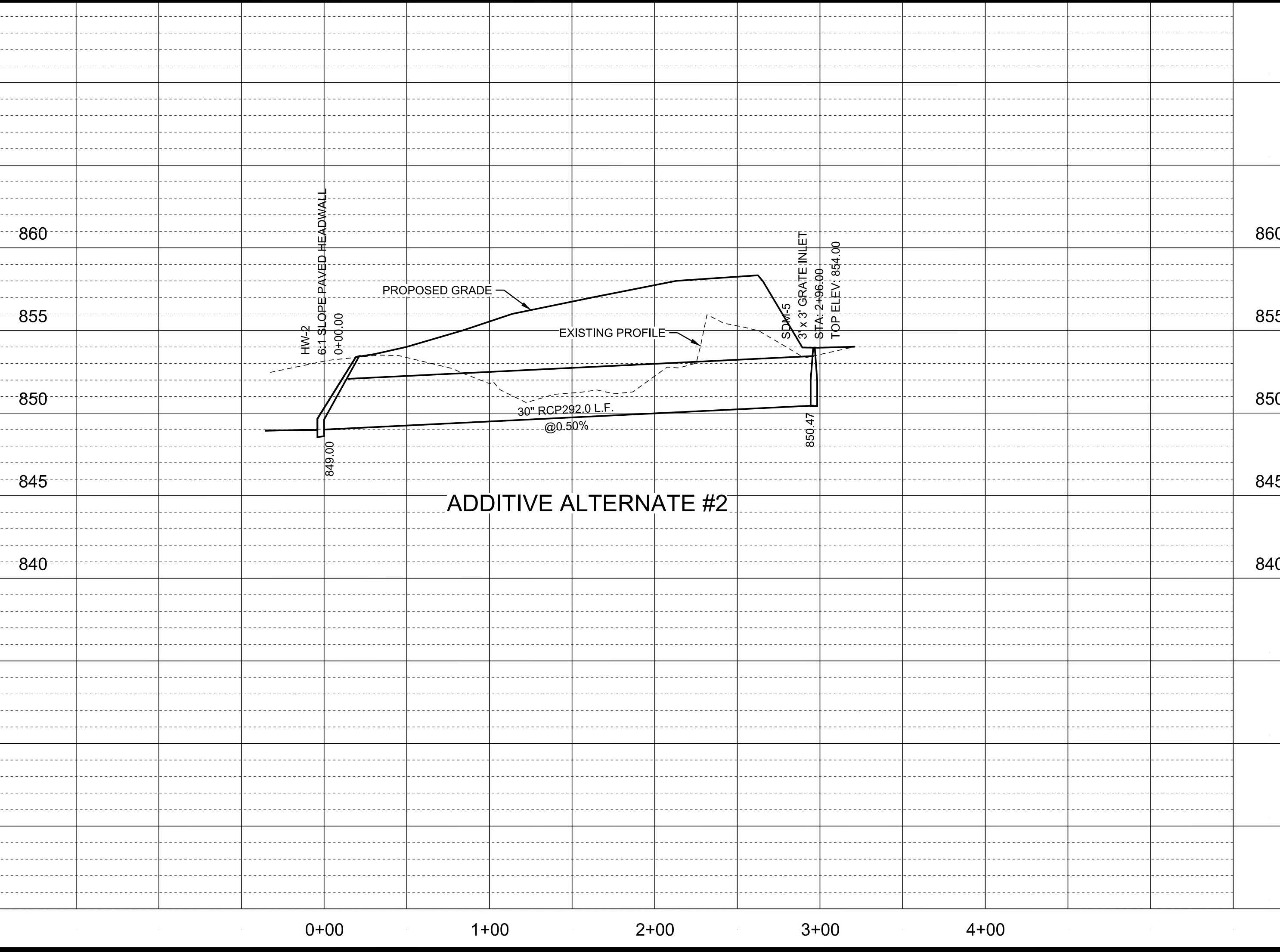
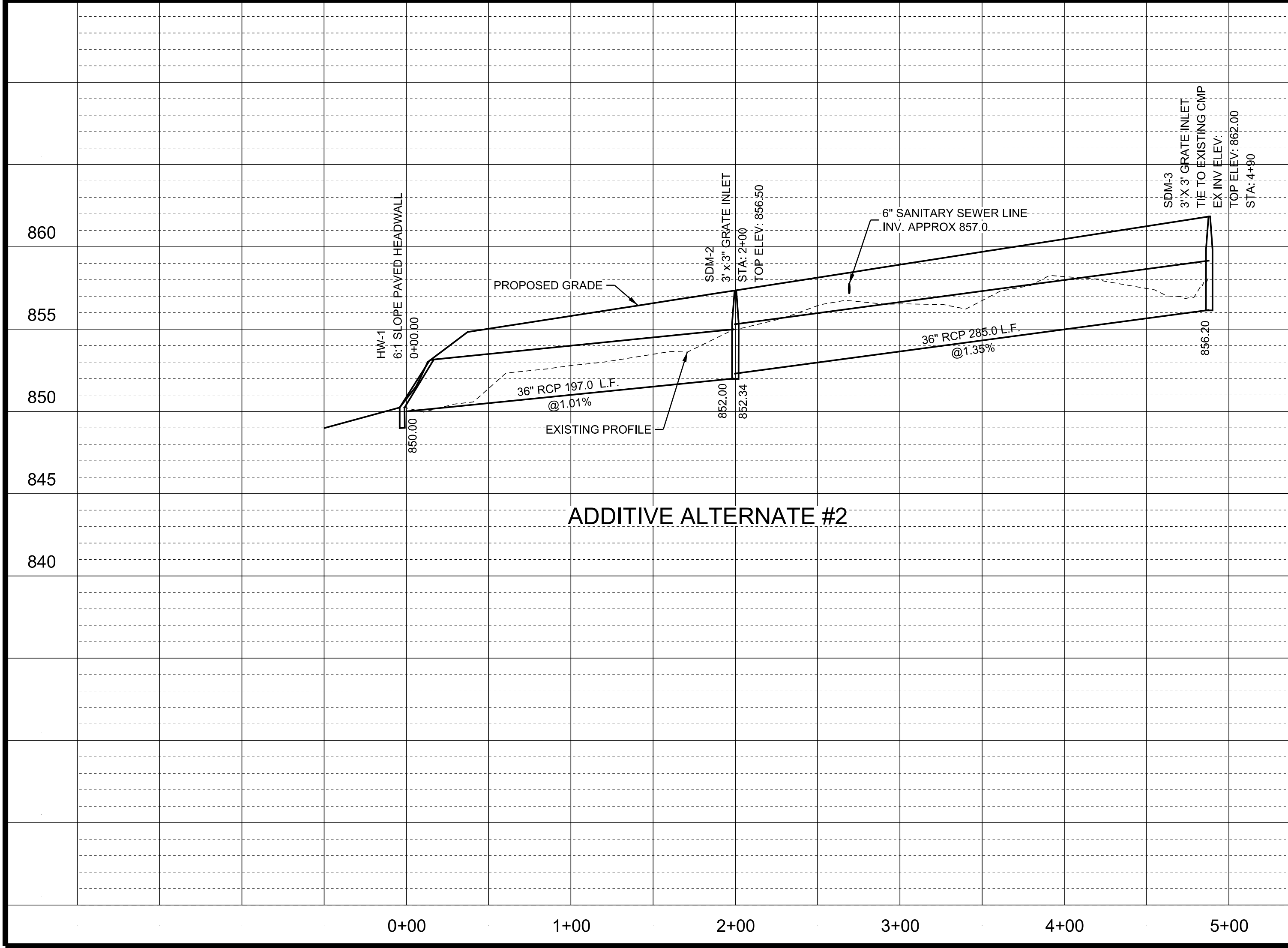
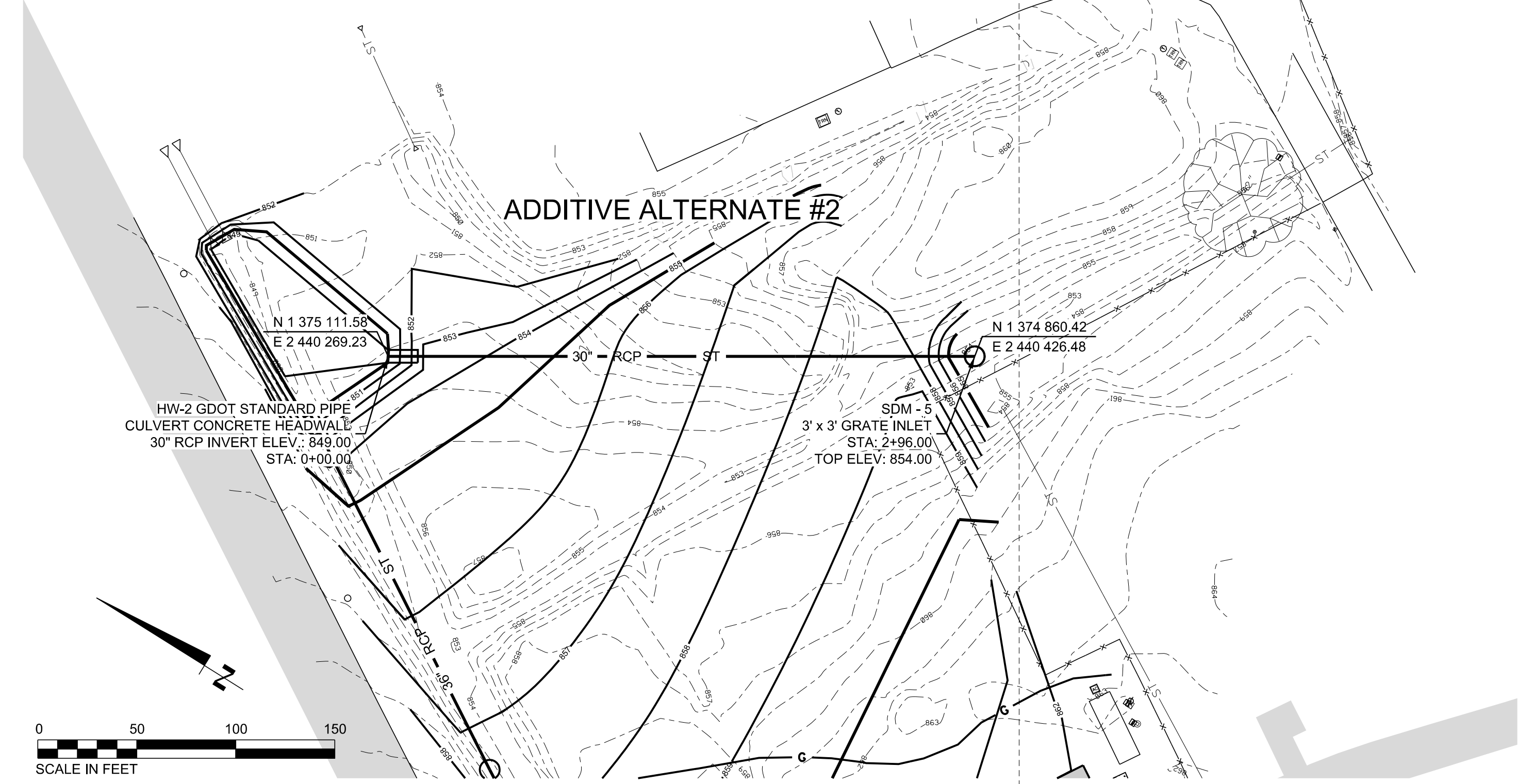
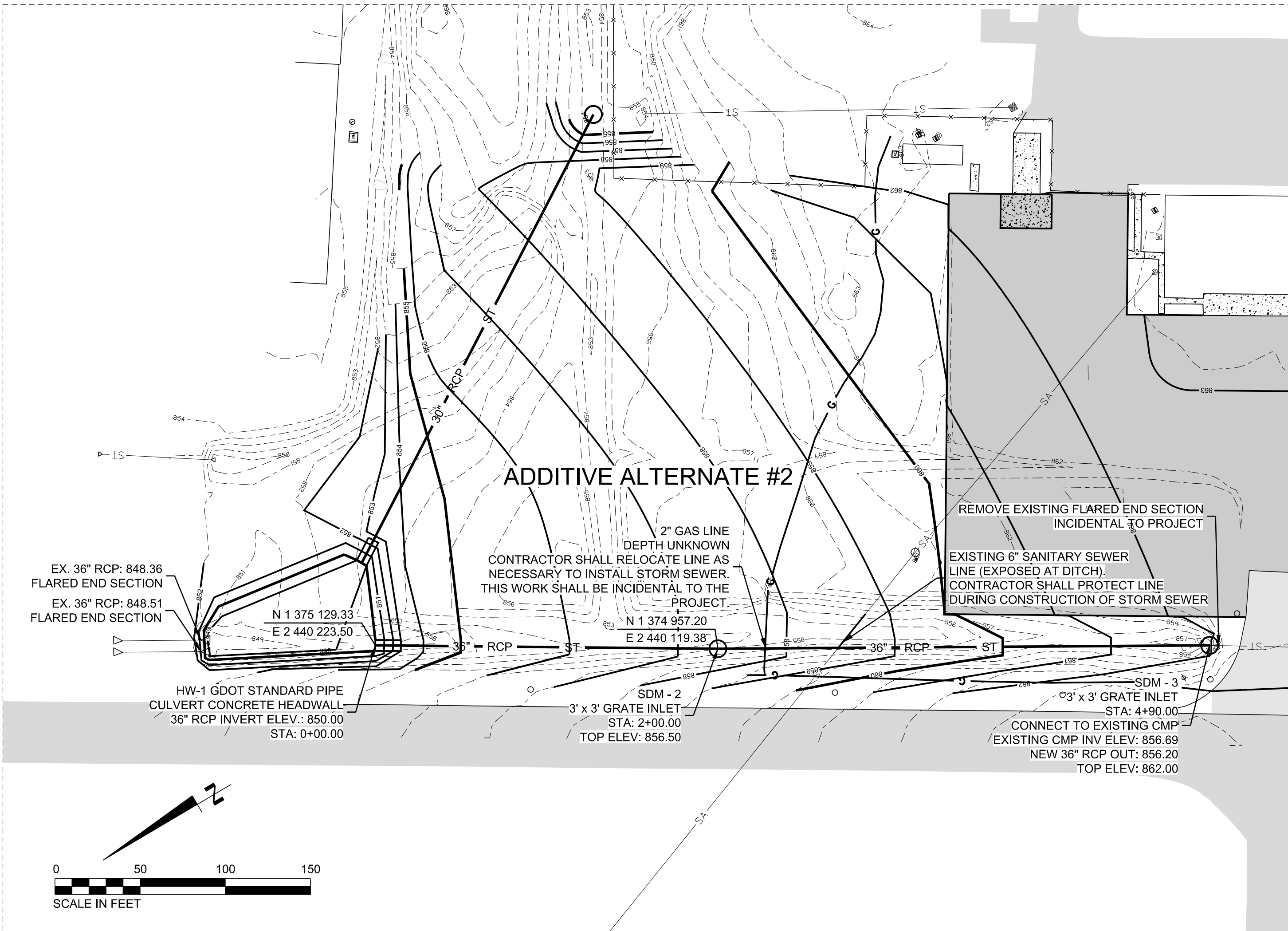
STORM SEWER PLAN AND PROFILE
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION			
REV.	CHK.	DATE	DESCRIPTION
JEC	DSD	2-9-2018	ISSUED FOR 30% REVIEW
JEC	DSD	3-29-2018	ISSUED FOR 90% REVIEW
JEC	DSD	5-09-2018	ISSUED FOR BID

C4.21

FILE NO. 33843-06

- NOTES:
- IF ANY CONFLICTS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE PROFILES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY BEFORE CONTINUING TO INSTALL THE STORM DRAIN LINE.
 - GRATE INLETS SHALL BE NEENAH FOUNDRY R-4884-A OR ENGINEER APPROVED EQUAL.



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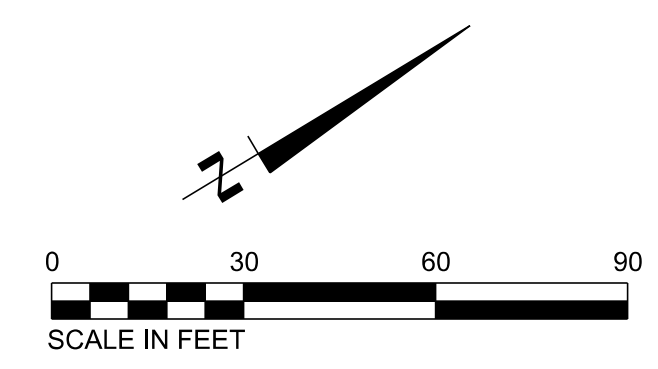
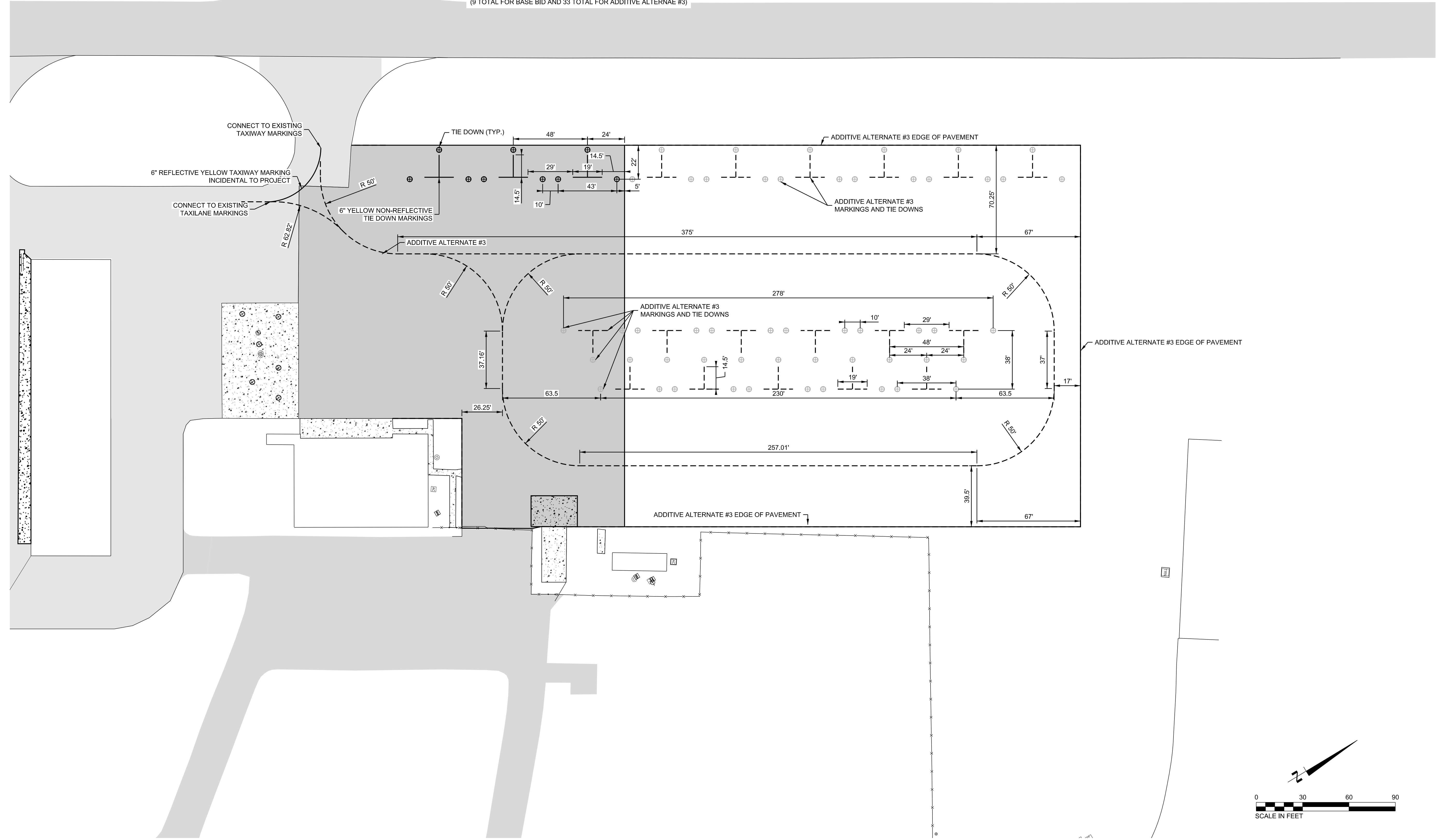
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MARKING / TIE DOWN PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

- NOTES:
1. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
 2. THE MARKINGS SHALL BE PLACED AT THE SPECIFIED RATES IN SPECIFICATION P-620.
 3. BEADS SHALL BE APPLIED WITH A MECHANICAL SPREADER ONLY AND AT THE APPLICATION RATE SPECIFIED IN SPECIFICATION P-620. NO HAND APPLICATION OF BEADS WILL BE ALLOWED. BEADS MUST BE SPREAD UNIFORMLY.
 4. YELLOW TAXIWAY MARKINGS SHALL BE OUTLINED WITH A 6" BLACK BORDER.
 5. ALL PAINT SHALL HAVE A GDOT APPROVED MICROBICIDE ADDITIVE.
 6. THERE SHALL BE NO SEPERATE PAY ITEM FOR TIE DOWNS, THEY SHALL BE CONSIDERED INCIDENTAL TO THE ASPHALT PAY ITEMS.
(9 TOTAL FOR BASE BID AND 33 TOTAL FOR ADDITIVE ALTERNAE #3)

LEGEND	
	BASE BID MARKING (INCIDENTAL TO PROJECT)
	ADDITIVE ALTERNATE #3 MARKINGS
	AIRCRAFT TIEDOWN SEE DETAIL SHEET C7.01



REVISION INFORMATION	
REV.	DESCRIPTION
DR. JEC	CHK. DSD
DATE 2-9-2018	ISSUED FOR 30% REVIEW
DATE 3-29-2018	ISSUED FOR 90% REVIEW
DATE 5-09-2018	ISSUED FOR BID

C5.51

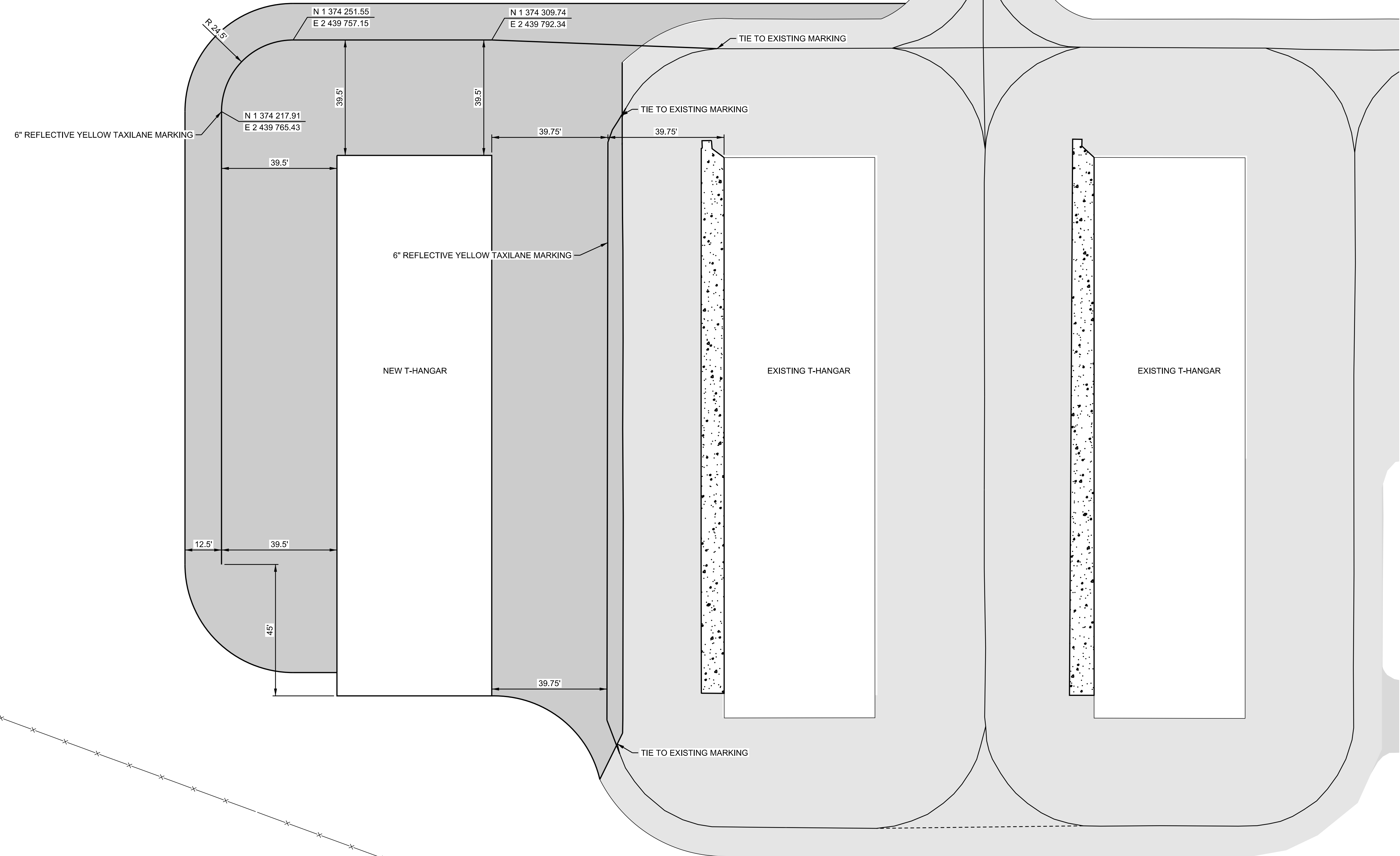
FILE NO. 33843-06

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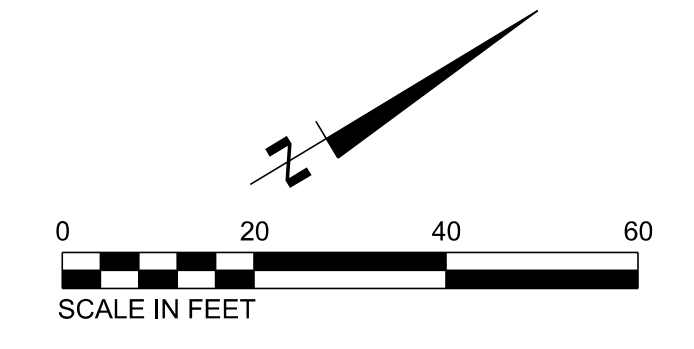
- NOTES:
1. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
 2. THE MARKINGS SHALL BE PLACED AT THE SPECIFIED RATES IN SPECIFICATION P-620.
 3. BEADS SHALL BE APPLIED WITH A MECHANICAL SPREADER ONLY AND AT THE APPLICATION RATE SPECIFIED IN SPECIFICATION P-620. NO HAND APPLICATION OF BEADS WILL BE ALLOWED. BEADS MUST BE SPREAD UNIFORMLY.
 4. ALL PAINT SHALL HAVE A GDOT APPROVED MICROBICIDE ADDITIVE.

EXISTING ASPHALT
NEW ASPHALT



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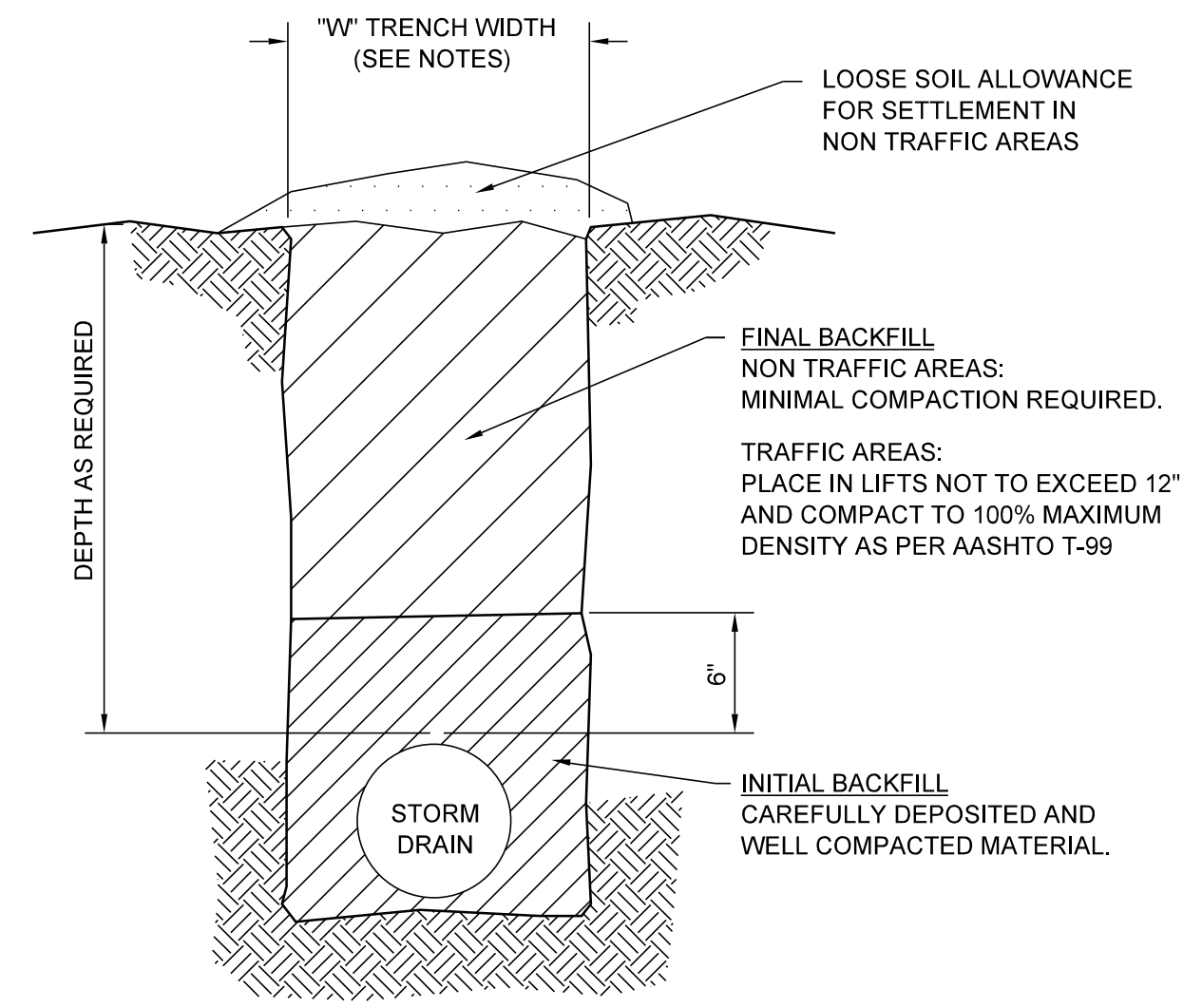


ALT#4 - T-HANGAR MARKING PLAN
PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION	
REV.	DESCRIPTION
DR. JEC	DATE 2-9-2018
CHK. DSD	ISSUED FOR 30% REVIEW
REV. JEC	DATE 3-29-2018
CHK. DSD	ISSUED FOR 90% REVIEW
REV. JEC	DATE 5-08-2018
CHK. DSD	ISSUED FOR BID

C5.52

FILE NO. 33843-06



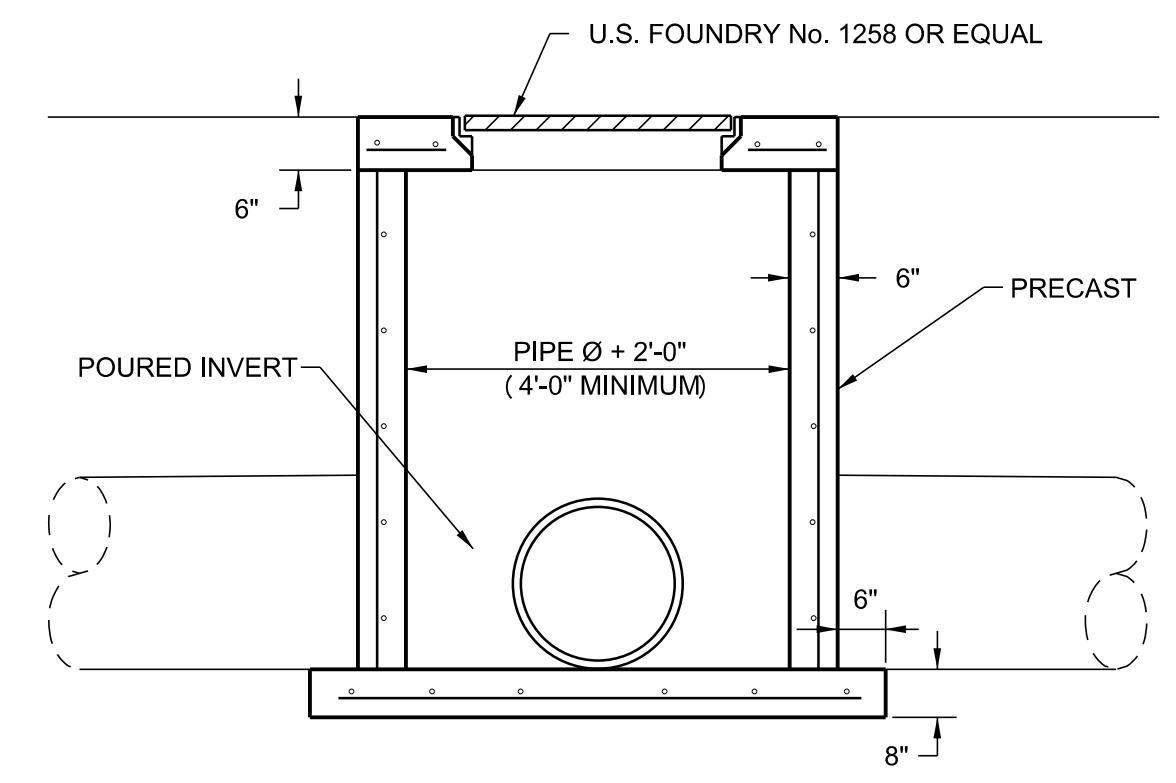
NOTES:

1. WIDTH OF THE TRENCH AT ANY POINT BELOW 6" ABOVE THE TOP OF THE PIPE SHALL BE SUFFICIENT TO PROVIDE ADEQUATE ROOM FOR JOINING THE PIPE AND FILLING AND COMPACTING THE SIDE FILLS. HOWEVER, IN NO CASE SHALL THIS WIDTH EXCEED THE OUTSIDE PIPE DIAMETER PLUS 2'-0".
2. TRENCH EXCAVATION FROM 6" ABOVE THE TOP OF THE PIPE MAY BE AS WIDE AS NECESSARY EXCEPT AS RESTRICTED BY THE LIMITS OF THE RIGHT-OF-WAY OR EASEMENT AND AS REQUIRED TO PROTECT EXISTING STRUCTURES AND CONDUITS.
3. INITIAL BACKFILL - GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION. SOIL TYPES OF HIGHLY ORGANIC SOILS OR HIGHLY PLASTIC EXPANSIVE CLAYS SHALL NOT BE USED. INITIAL BACKFILL SHALL BE COMPACTED TO UNIFORMLY DEVELOP LATERAL SOIL FORCES DURING THE BACKFILL OPERATION.
4. FINAL BACKFILL - GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION WITH MAXIMUM SIZE OF STONE NOT TO EXCEED SIX (6") INCHES.

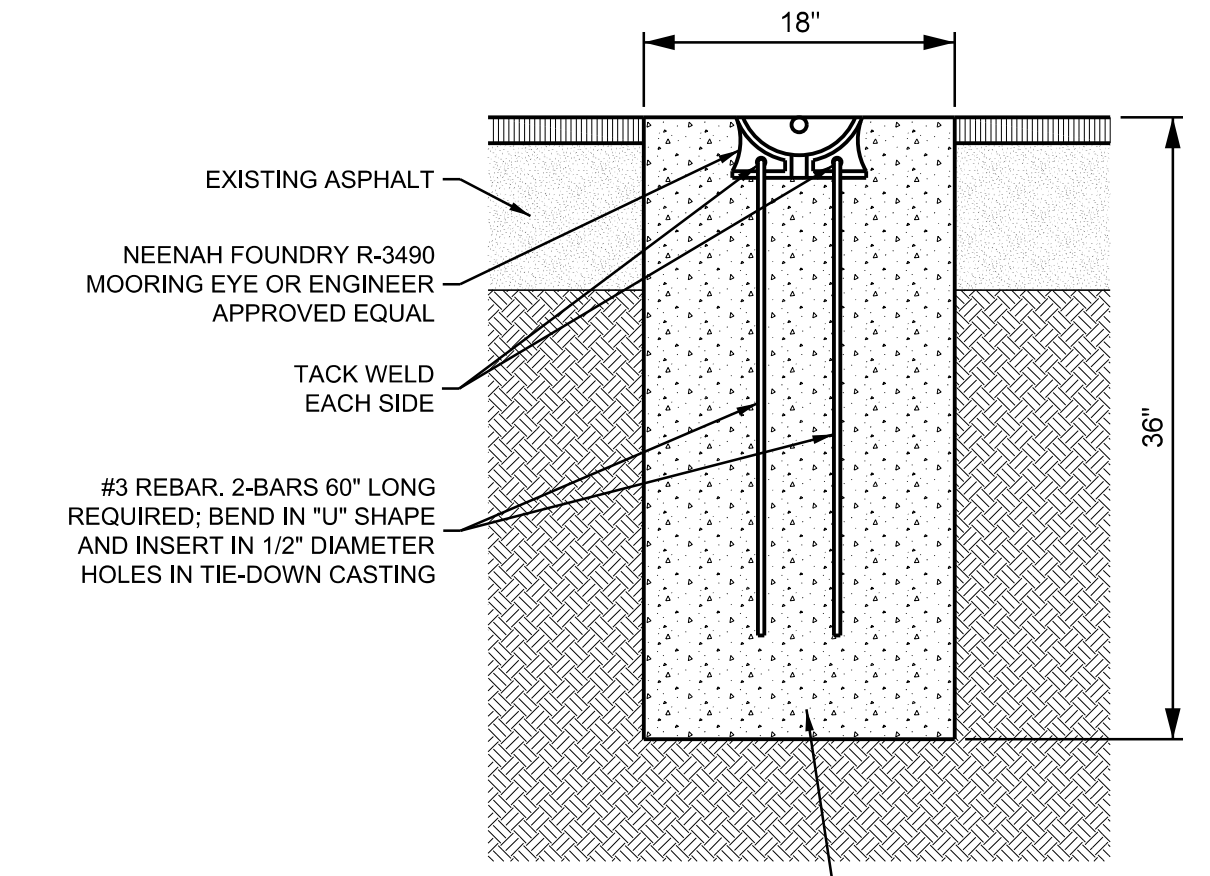
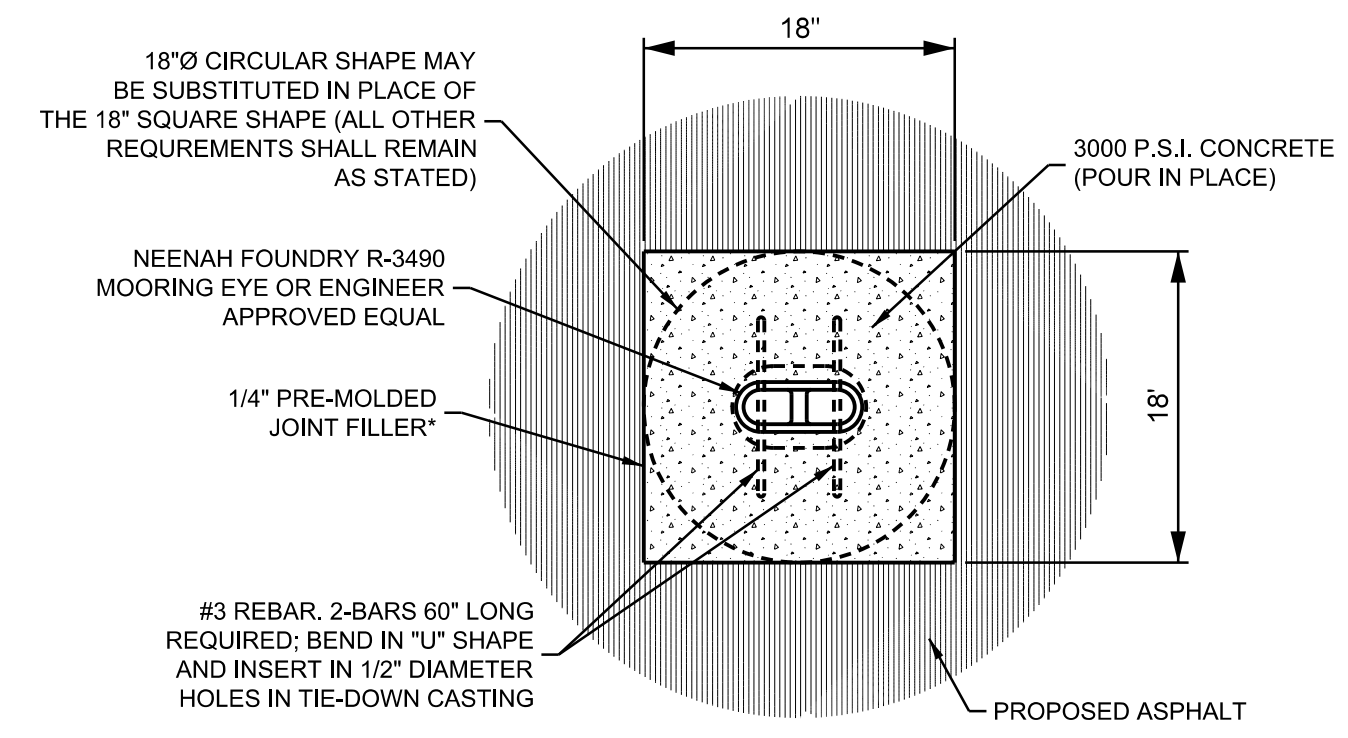
TRENCH DETAIL
NOT TO SCALE

NOTES:

1. ALL CONCRETE SHALL BE 3000 PSI 28 DAY COMPRESSIVE STRENGTH.
2. ALL REINFORCING STEEL SHALL BE GRADE 60 ASTM A615 OR A617.
3. ALL REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI MANUAL, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
4. REINFORCING SHALL BE #4 BARS AT 12" ON CENTER EACH WAY IN ALL WALLS AND SLABS.
5. SURROUND EACH JUNCTION BOX WITH A SEDIMENT BARRIER UNTIL THE PAVEMENT IS IN PLACE.



JUNCTION BOX
NOT TO SCALE



*NOTE:
1/4" PRE-MOLDED JOINT FILLERS ARE TO BE CONSIDERED INCIDENTAL TO THE PROJECT AND WILL NOT BE PAID FOR AS INDIVIDUAL PAY ITEMS.

TIE-DOWN DETAIL
NOT TO SCALE



DETAILS

PROJECT# AP XXX-XXXX-XX(XXX) MONROE
MONROE-WALTON COUNTY AIRPORT
MONROE, GEORGIA

REVISION INFORMATION		CHK.	DATE	DESCRIPTION
REV.	DR.	JEC	2-9-2018	ISSUED FOR 30% REVIEW
		JEC	3-29-2018	ISSUED FOR 90% REVIEW
		JEC	5-09-2018	ISSUED FOR BID

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FILE NO. 33843-06

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