

STATE OF TENNESSEE SHELBY COUNTY

OBSTRUCTION CLEARING - SOUTH OF MEM AIRFIELD MSCAA NO. 19-1426-0

2491 WINCHESTER ROAD MEMPHIS, TENNESSEE

AUGUST 2, 2022

PROJECT INFORMATION

PROJECT LOCATION 2491 WINCHESTER ROAD
MEMPHIS, TENNESSEE

CLIENT CONTACT BRIAN A. TENKHOFF, PE
MANAGER OF ENGINEERING & CONSTRUCTION
MEMPHIS-SHELBY COUNTY AIRPORT AUTHORITY
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VICINITY MAP
NTS

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PREPARED BY:

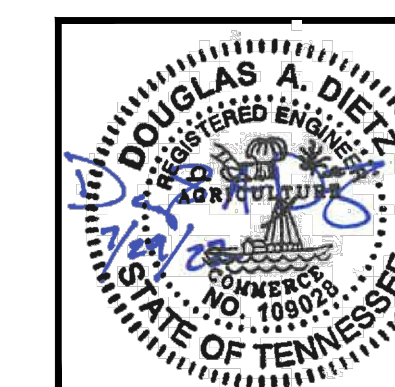


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SHEET NUMBER
C-0

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT #: 0888820034
DATE: AUGUST 2, 2022



Item Number	Item Description	Unit	Quantity
1000-01	Mobilization	LS	1
1000-03	Permits	LS	1
1000-04	Bonds	LS	1
1000-07	Demobilization	LS	1
2000-01	Silt Fence	LF	38,584
2000-02	Mulch Socks (18")	LF	114,241
2000-03	High Visibilty Fence	LF	31,216
2000-04	Construction Exit	EA	3
2000-05	Culvert Inlet Protection	EA	3
2000-06	Check Dams	EA	146
2000-07	Sediment Traps	EA	53
2000-08	Blowers - For Burning	EA	2
2000-09	Tree Clearing (Phase 1)	AC	287
2000-10	Select Cutting (Phase 2)	AC	57
2000-11	Polyacrylamide Powder	LB	1,000
2000-12	Seeding (with Mulch)	AC	287
2000-13	Grading-Leveling	AC	287
2000-14	Tree Removal From Site	AC	287
2000-15	Water	MG	2,500
	Add Alternate		
2000-16	Berms	CY	43,144
	Deductive Alternate		
2000-17	Tree Clearing in Lieu of Select Cutting for the Isolated Wetland Areas	AC	1

REVISIONS				

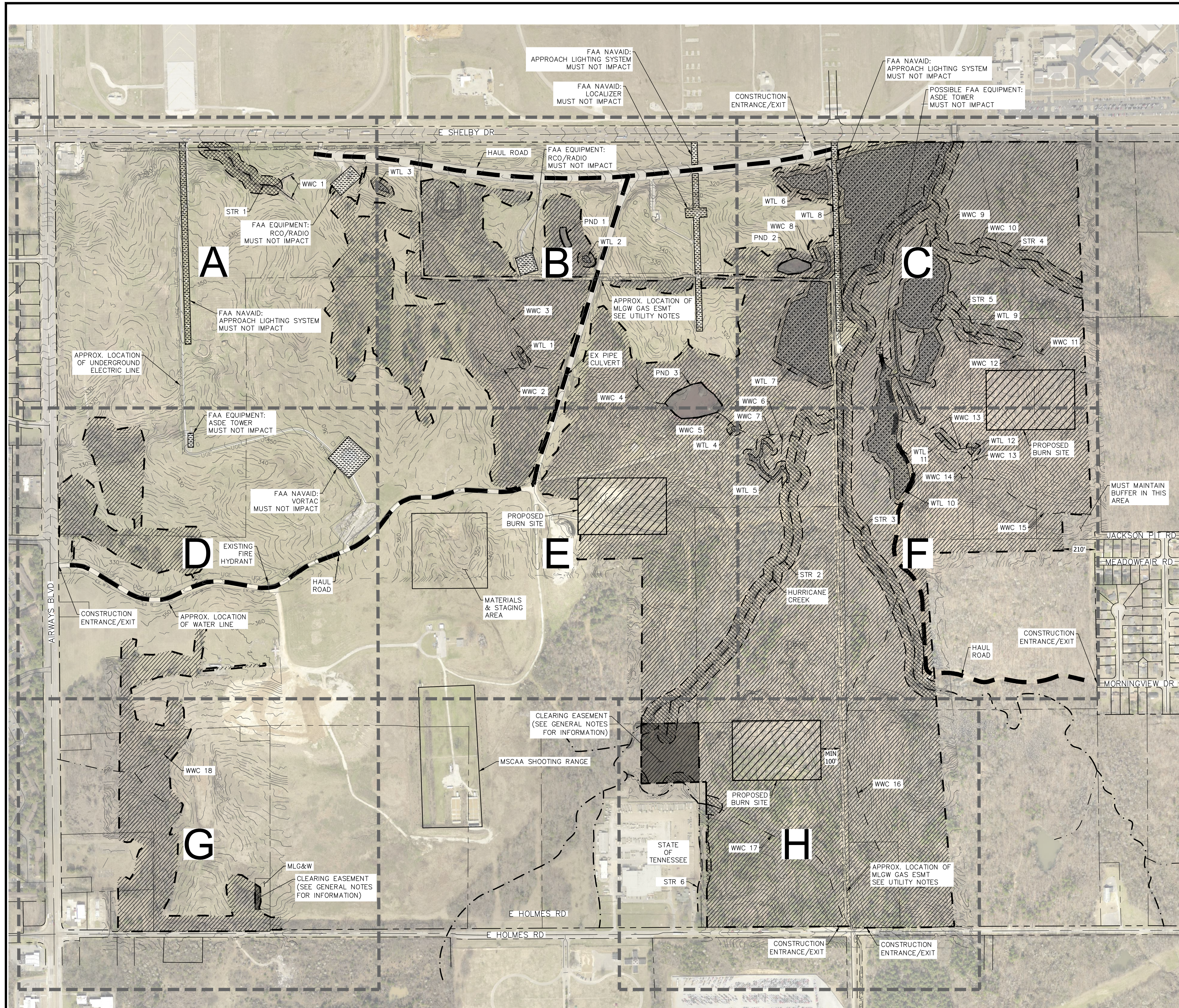


SCALE: AS SHOWN
DATE: 08/02/2022

DESIGNED: ENSAFE
DRAWN BY: KLH
REVIEWED BY: DD
PROJECT NO: 0888620034

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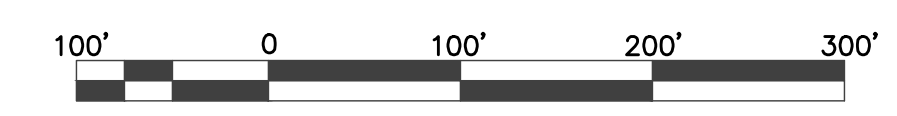
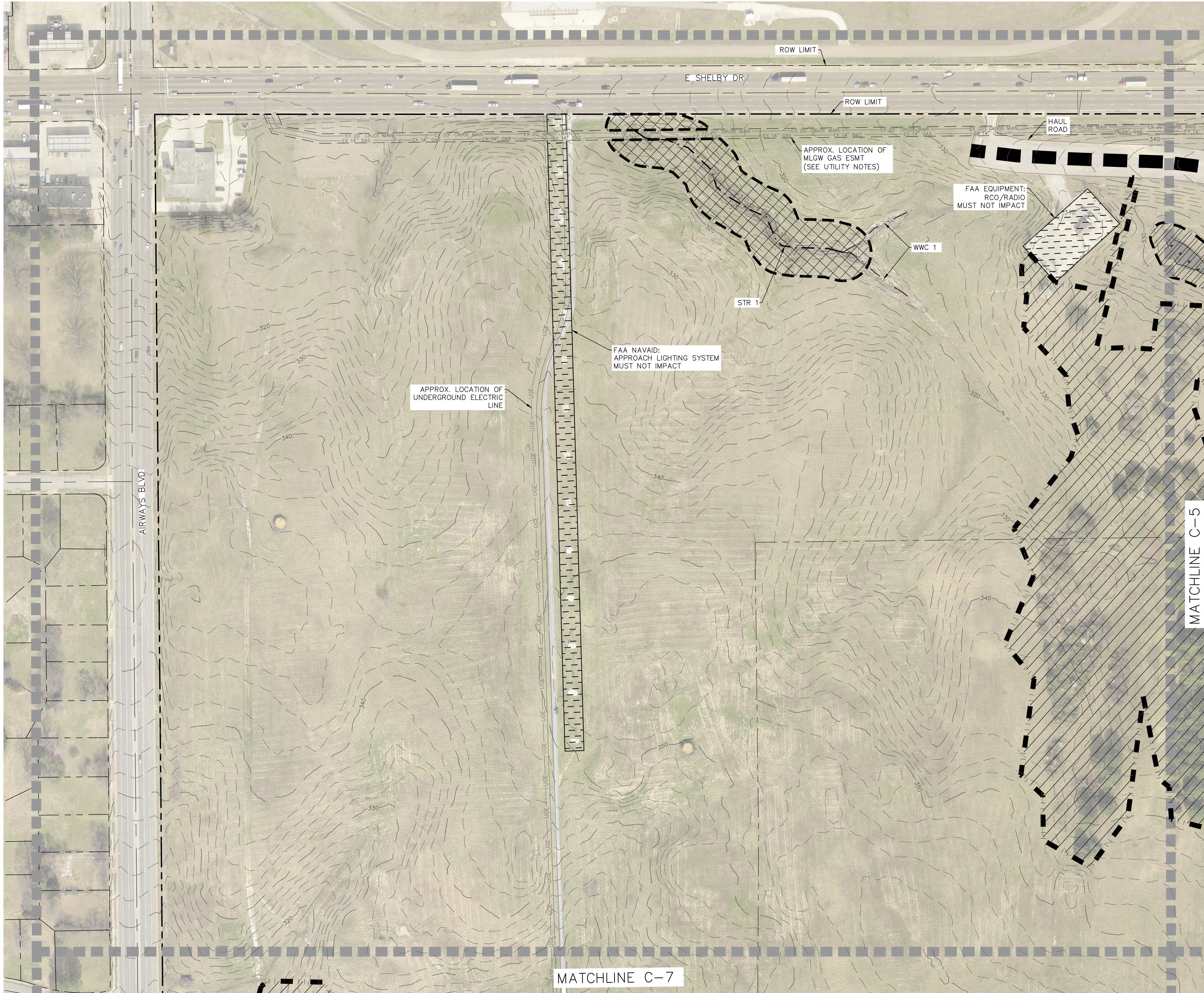
ESTIMATED QUANTITIES
MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDEPATH OBSTRUCTION
CLEARING



- LEGEND:**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - ▨ WETLANDS (WTL)
 - ▨ PROPOSED BURN SITE
 - ▨ PHASE 1 - GENERAL TREE & STUMP REMOVAL. CONTRACTOR SHALL ONLY CLEAR AND GRUB 30 ACRES AT A TIME. CONTRACTOR SHALL STABILIZE THE 30 ACRES BEFORE MOVING TO ANOTHER SITE. TOTAL AREA = 287 AC
 - ▨ PHASE 2 - STREAM SELECT CUTTING. CONTRACTOR SHALL COORDINATE WITH TDEC AND MSCAA FOR THE MARKING OF TREES TO BE SELECT CUT AND TOPPED. TREES SHALL BE MARKED WHEN FOLIAGE IS PRESENT AND CUT WHEN NO FOLIAGE IS PRESENT OR DURING WINTER MONTHS.
 - ▨ PHASE 2 - WETLAND HAND CUTTING. CONTRACTOR SHALL HAND CUT ALL THE TREES WITHIN THE WETLAND BOUNDARIES TO AS CLOSE TO THE GROUND AS POSSIBLE. THE FELLED TREES SHALL NOT IMPEDE THE FLOW OF WATER THROUGH THE WETLANDS. IF THE FELLED TREES DO IMPACT THE FLOW IN THE WETLANDS, THE CONTRACTOR SHALL CUT UP THE FELLED TREE BY HAND TO ALLOW FOR WATER TO FLOW THROUGH THE WETLANDS AS PER EXISTING CONDITIONS.
 - ▨ FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD
- UTILITY NOTES:**
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH MLGW & VALERO TO MARK AND FLAG THE EXACT LOCATION OF THE GAS EASEMENT AND PIPELINES.
 2. NO HEAVY CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL OVER THE EXISTING MLGW GAS TRANSMISSION EASEMENT. ANY CONSTRUCTION TRAFFIC SHALL BE CHANNLED TO A DESIGNATED LOCATION - SUBJECT TO MLGW APPROVAL, TO CROSS AT A 90-DEGREE ANGLE. THE EASEMENT SHALL BE PROTECTED AT THAT LOCATION BY OAK MATTING - SUBJECT TO MLGW APPROVAL. THE EXISTING MLGW EASEMENT SHALL BE MARKED/PROTECTED WITH A TEMPORARY FENCE, LIKE AN ORANGE PLASTIC SAFETY FENCE, TO CHANNEL TRAFFIC TO THE PROTECTED MATTING AREA.
 3. THE TREES TO BE CLEARED ALONG THE GAS EASEMENT SHALL BE FELLED IN A MANNER SO THAT THE TREE DOES NOT FALL INTO THE EASEMENT.
 4. THE EXISTING MLGW EASEMENT WILL BE RESTORED TO ITS PREVIOUS CONDITION, OR BETTER, INCLUDING SURFACE DRAINAGE, PIPELINE MARKER OR MILEPOSTS, AND VEGETATIVE COVER - SUBJECT TO MLGW APPROVAL.
 5. ANY BURN PILES/PITS MUST BE LOCATED A MINIMUM OF 100 FEET OUTSIDE THE MLGW EASEMENT.
 6. GENERALLY, MLGW DOES NOT PERMIT ANY CHANGES TO THE EXISTING GRADE WITHIN THE MLGW EASEMENT - NO CUTTING, FILLING, OR GRADING. HOWEVER, ANY PROPOSED GRADING PLANS SHOULD BE SUBMITTED FOR REVIEW AND APPROVAL BY MLGW - PRIOR TO ANY WORK BEING PERFORMED.

REVISIONS					
SCALE: AS SHOWN	DATE: 08/02/2022	DESIGNED: ENSAFE	DRAWN BY: KLH	REVIEWED BY: DD	PROJECT NO: 088820034
OVERALL SITE PLAN MSAA SOUTH APPROACH SUPPORT FOR GLIDEPATH OBSTRUCTION CLEARING					
SHEET					
C-3					

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LEGEND

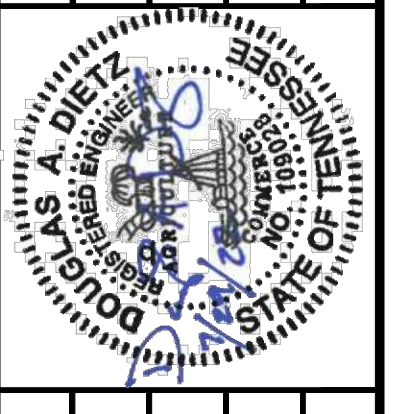
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NO.	REVISIONS

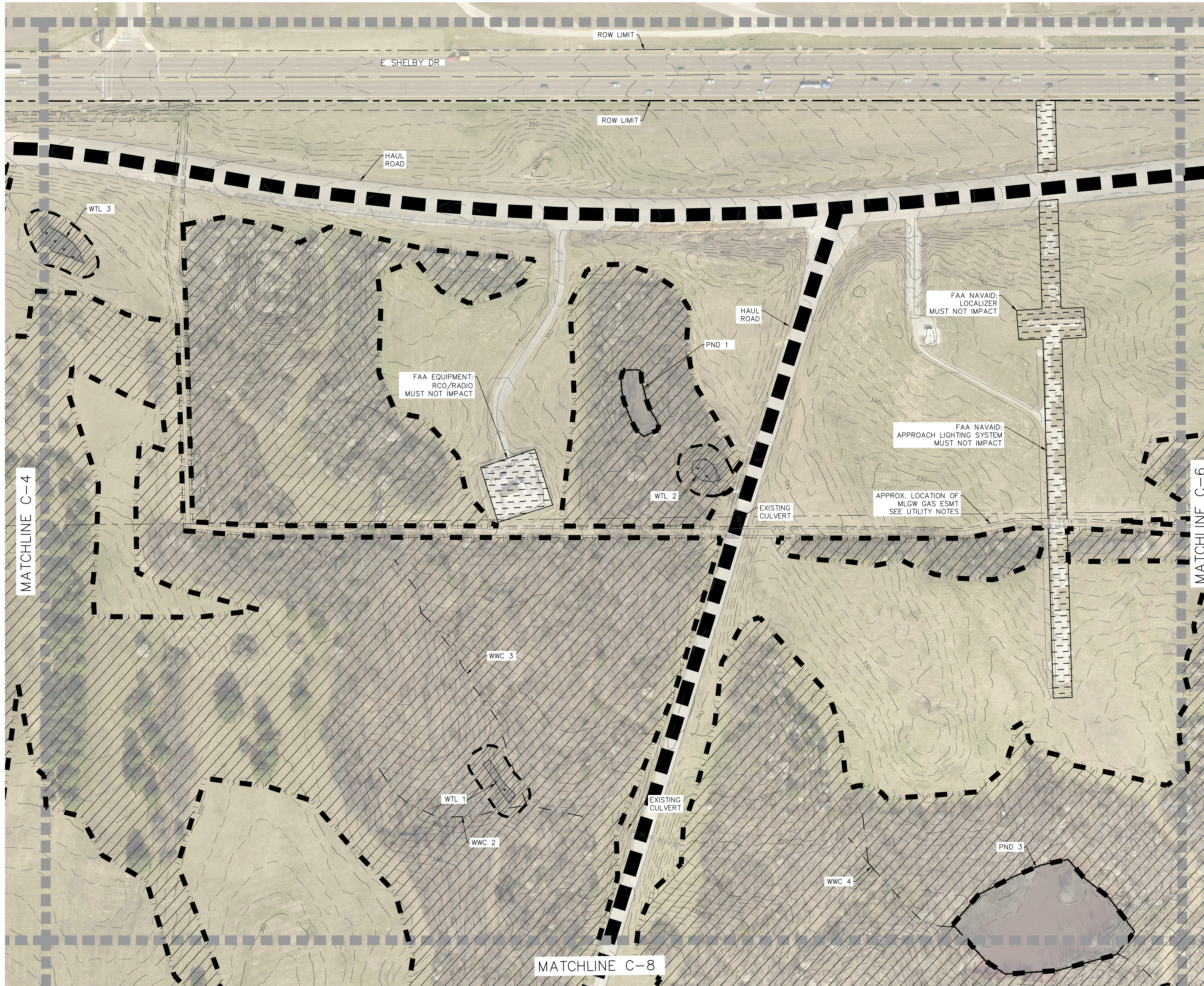


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AREA A SITE PLAN
MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDEPAH OBSTRUCTION
CLEARING

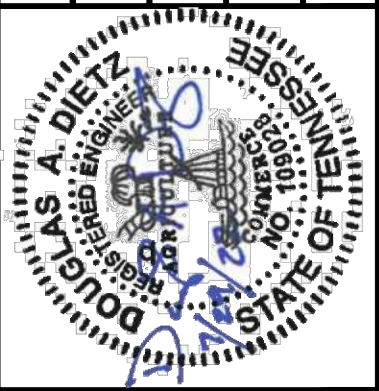
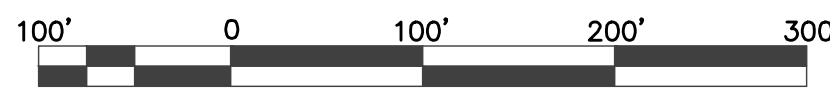


LEGEND

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- 30 FOOT BUFFER AROUND WETLANDS
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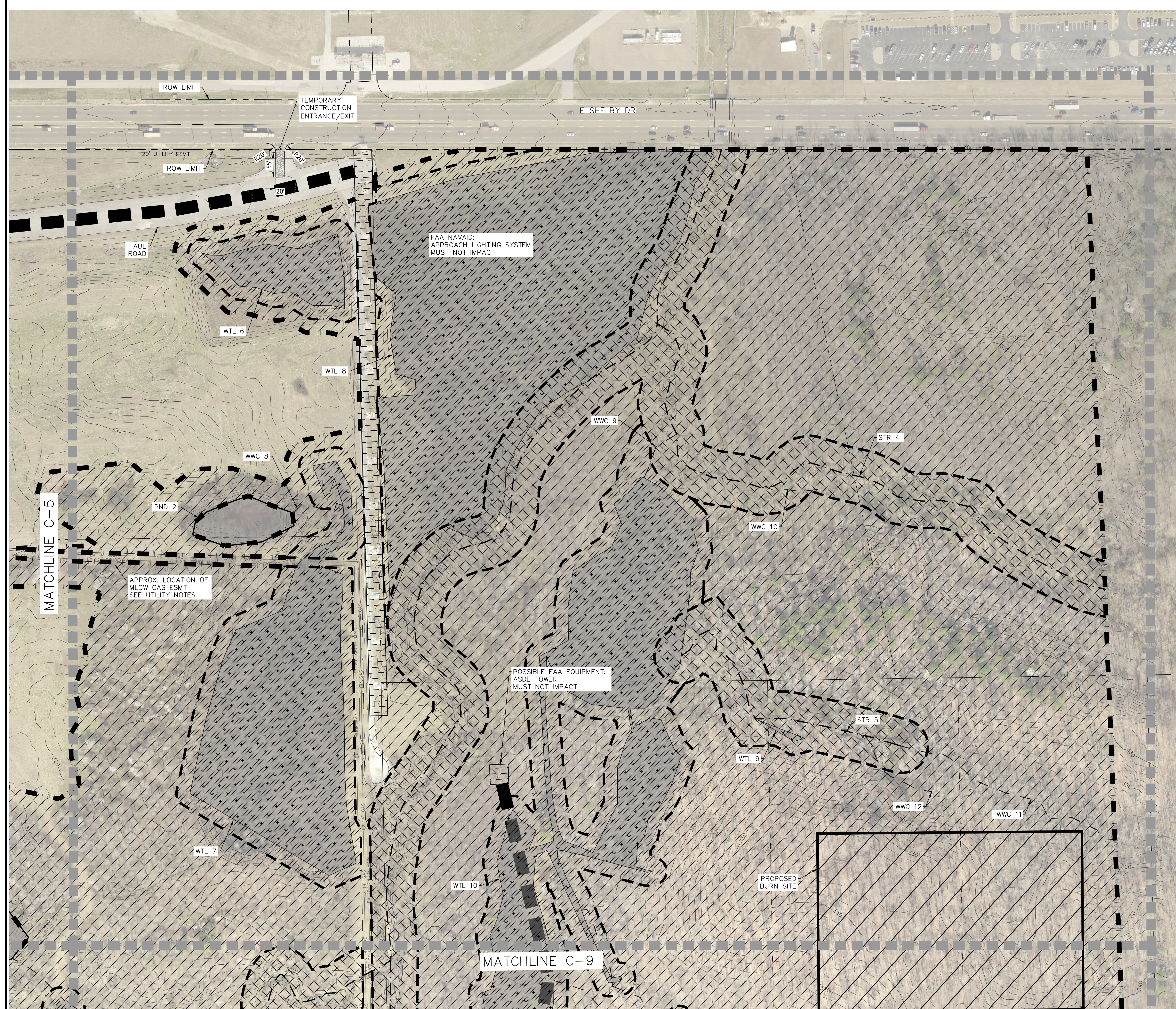


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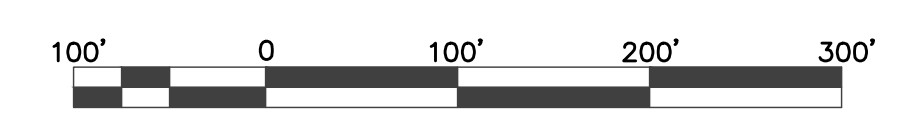


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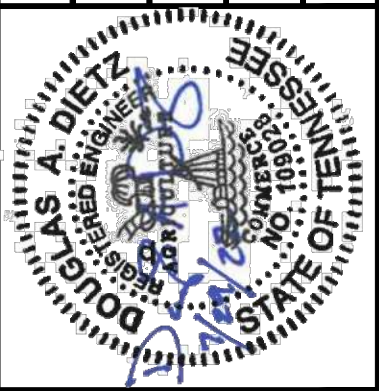
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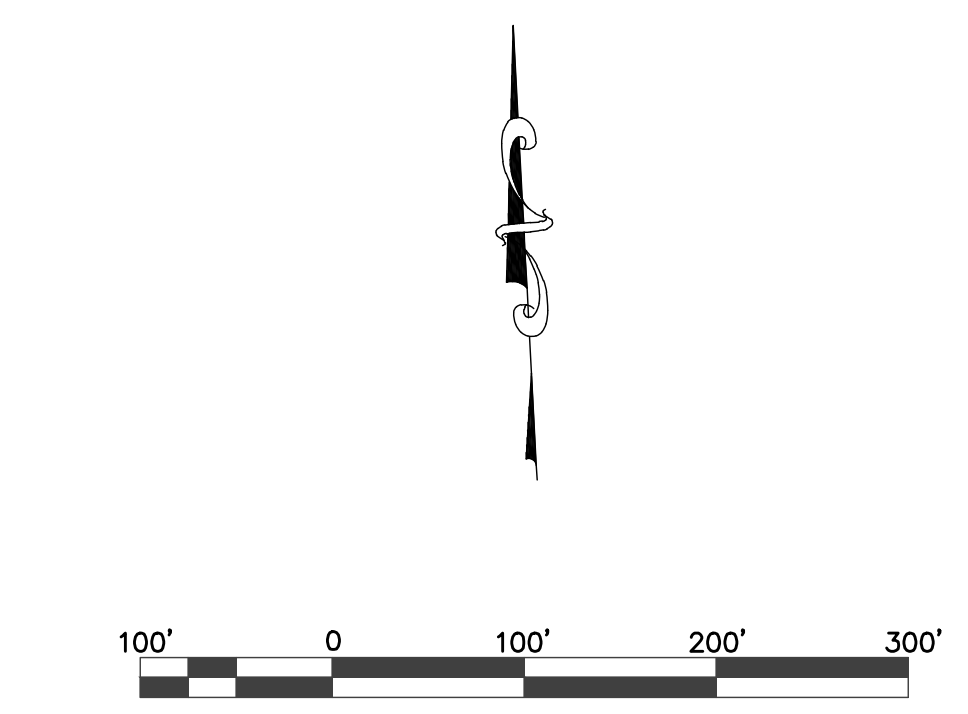
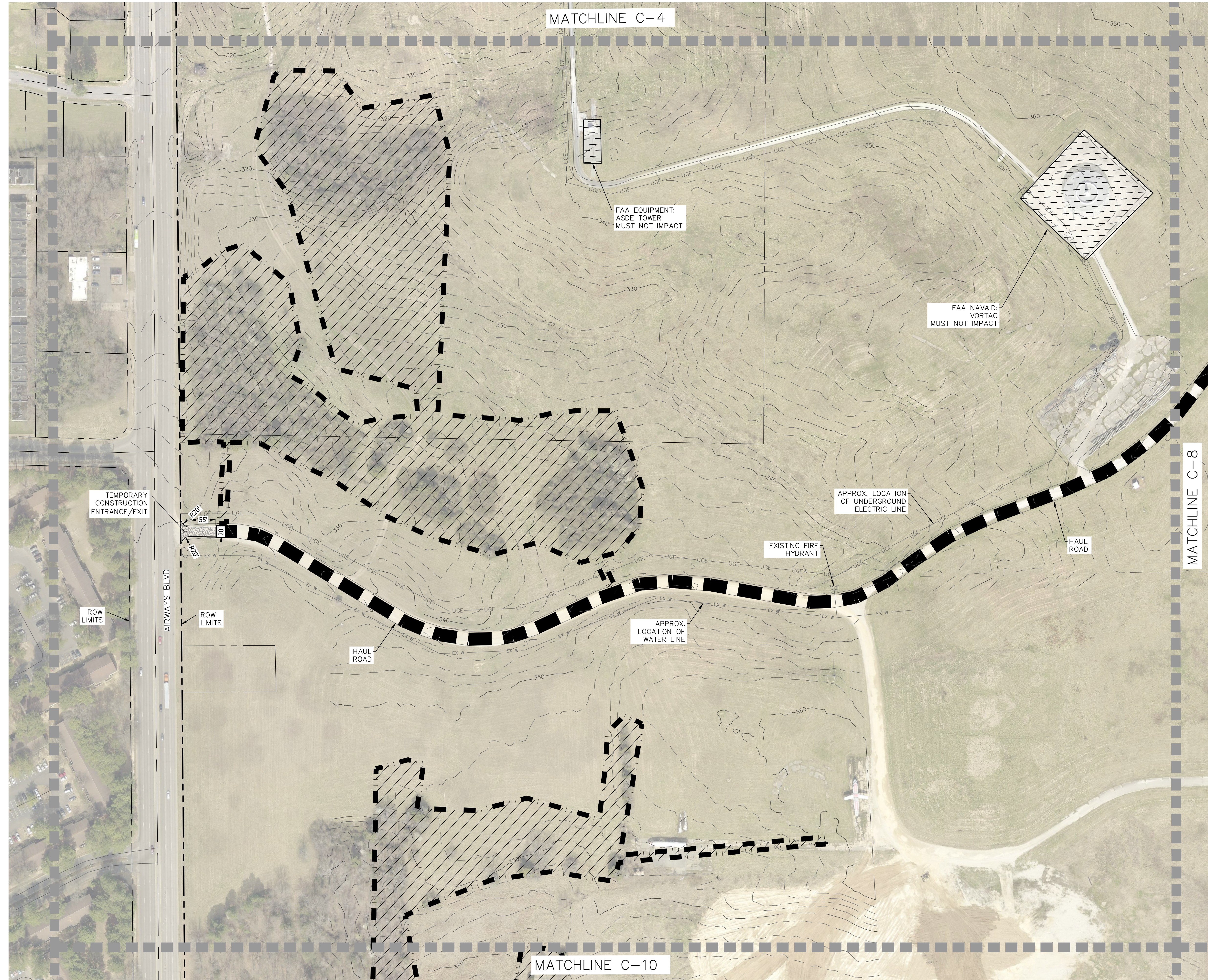


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- LEGEND**
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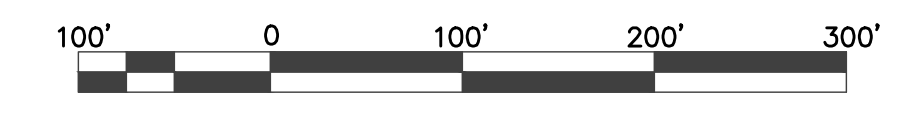
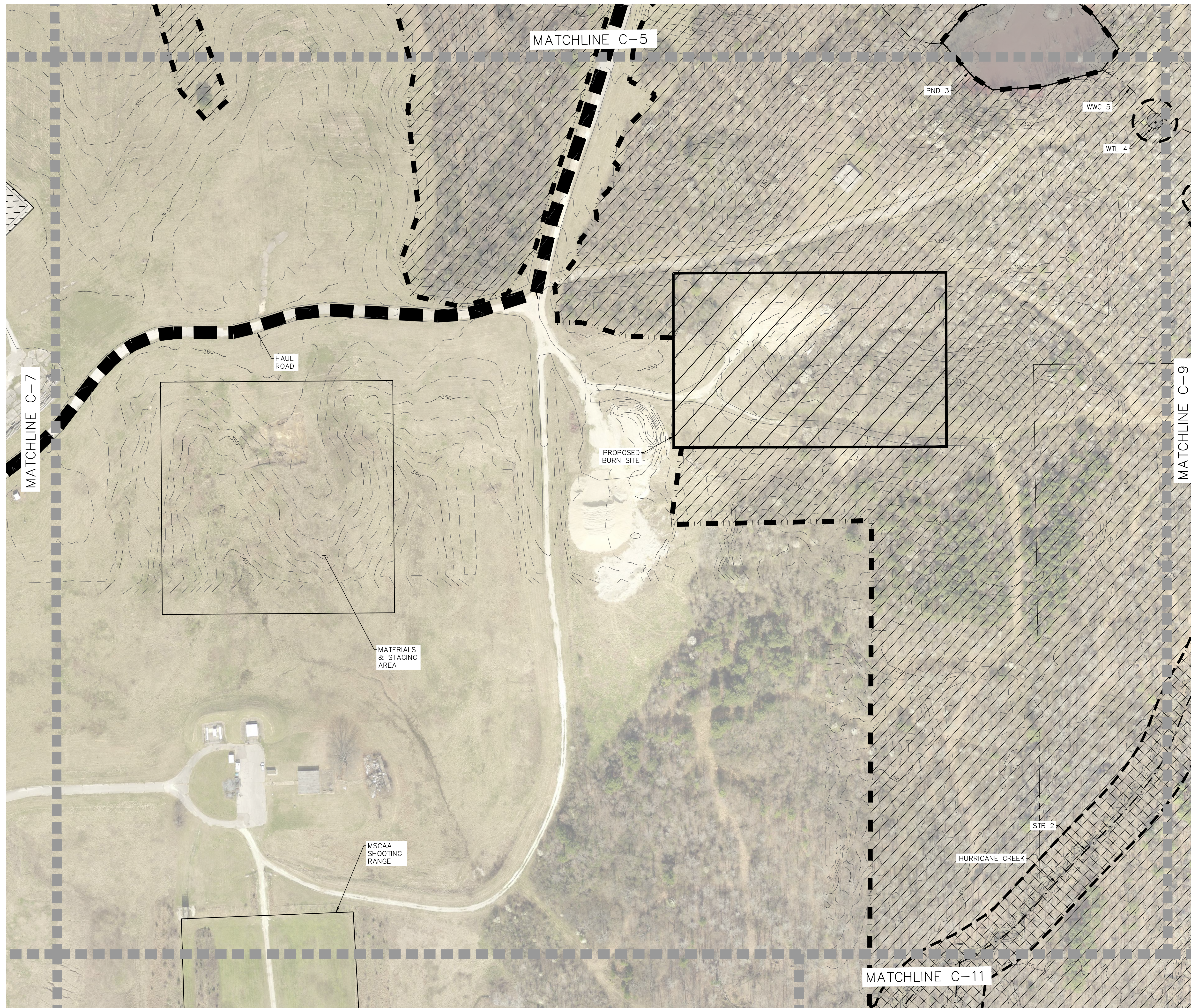


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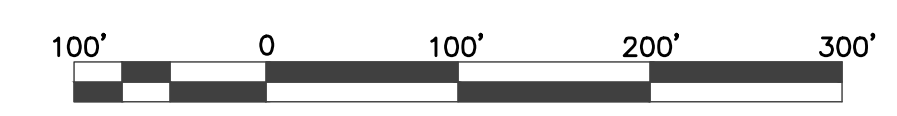
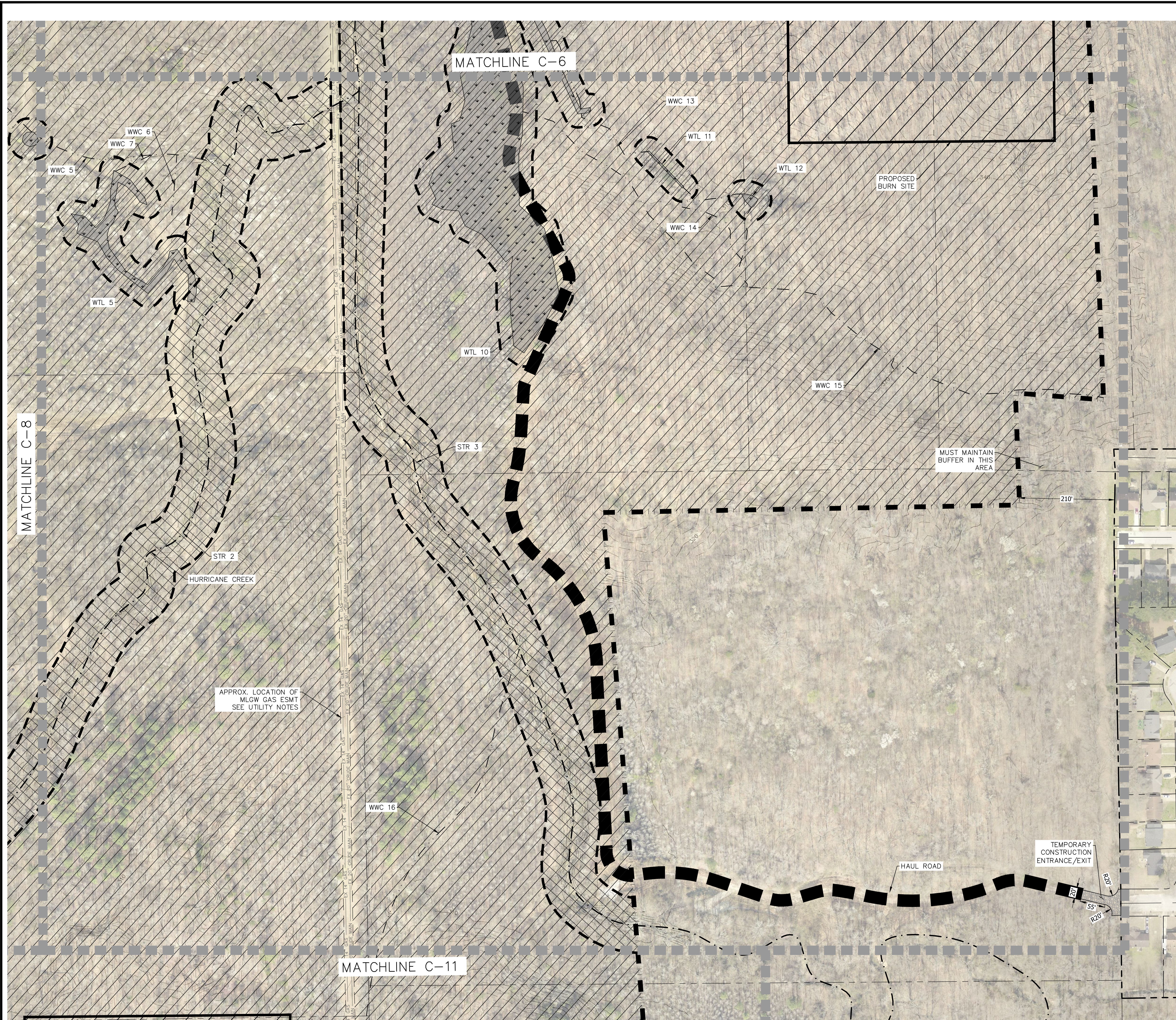
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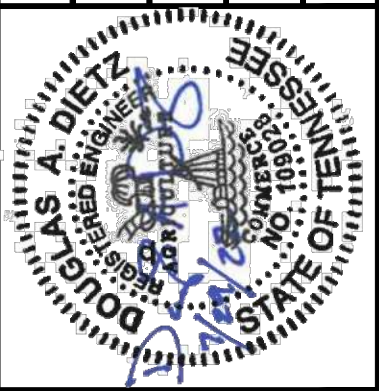
LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
- WET WEATHER CONVEYANCE (WWC)
- WETLANDS (WTL)
- PROPOSED BURN SITE
- PHASE 1 – GENERAL TREE & STUMP REMOVAL. CONTRACTOR SHALL ONLY CLEAR AND GRUB 50 ACRES AT A TIME. CONTRACTOR SHALL STABILIZE THE 50 ACRES BEFORE MOVING TO ANOTHER SITE. TOTAL AREA = 243± AC
- PHASE 2 – STREAM SELECT CUTTING. CONTRACTOR SHALL COORDINATE WITH TDEC AND MSCAA FOR THE MARKING OF TREES TO BE SELECT CUT AND TOPPED. TREES SHALL BE MARKED WHEN FOLIAGE IS PRESENT AND CUT WHEN NO FOLIAGE IS PRESENT OR DURING WINTER MONTHS.
- PHASE 2 – WETLAND HAND CUTTING. CONTRACTOR SHALL HAND CUT ALL THE TREES WITHIN THE WETLAND BOUNDARIES TO AS CLOSE TO THE GROUND AS POSSIBLE. THE FELLED TREES SHALL NOT IMPEDE THE FLOW OF WATER THROUGH THE WETLANDS. IF THE FELLED TREES DO IMPACT THE FLOW IN THE WETLANDS, THE CONTRACTOR SHALL CUT UP THE FELLED TREE BY HAND TO ALLOW FOR WATER TO FLOW THROUGH THE WETLANDS AS PER EXISTING CONDITIONS.
- FAA EQUIPMENT/NAVAID – MUST NOT IMPACT
- HAUL ROAD

UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH MLGW & VALERO TO MARK AND FLAG THE EXACT LOCATION OF THE GAS EASEMENT AND PIPELINES.
2. NO HEAVY CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL OVER THE EXISTING MLGW GAS TRANSMISSION EASEMENT. ANY CONSTRUCTION TRAFFIC SHALL BE CHANNELLED TO A DESIGNATED LOCATION – SUBJECT TO MLGW APPROVAL, TO CROSS AT A 90-DEGREE ANGLE. THE EASEMENT SHALL BE PROTECTED AT THAT LOCATION BY OAK MATTING – SUBJECT TO MLGW APPROVAL. THE EXISTING MLGW EASEMENT SHALL BE MARKED/PROTECTED WITH A TEMPORARY FENCE, LIKE AN ORANGE PLASTIC SAFETY FENCE, TO CHANNEL TRAFFIC TO THE PROTECTED MATTING AREA.
3. THE TREES TO BE CLEARED ALONG THE GAS EASEMENT SHALL BE FELLED IN A MANNER SO THAT THE TREE DOES NOT FALL INTO THE EASEMENT.
4. THE EXISTING MLGW EASEMENT WILL BE RESTORED TO ITS PREVIOUS CONDITION, OR BETTER, INCLUDING SURFACE DRAINAGE, PIPELINE MARKER OR MILEPOSTS, AND VEGETATIVE COVER – SUBJECT TO MLGW APPROVAL.
5. ANY BURN PILES/PITS MUST BE LOCATED A MINIMUM OF 100 FEET OUTSIDE THE MLGW EASEMENT.
6. GENERALLY, MLGW DOES NOT PERMIT ANY CHANGES TO THE EXISTING GRADE WITHIN THE MLGW EASEMENT – NO CUTTING, FILLING, OR GRADING. HOWEVER, ANY PROPOSED GRADING PLANS SHOULD BE SUBMITTED FOR REVIEW AND APPROVAL BY MLGW – PRIOR TO ANY WORK BEING PERFORMED.

NO.	REVISIONS

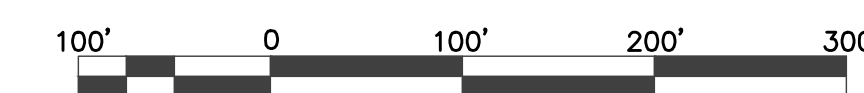


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PROJECT NO: 0888820034	

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MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDEPAH OBSTRUCTION
CLEARING



LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
- WET WEATHER CONVEYANCE (WWC)
- WETLANDS (WTL)
- PROPOSED BURN SITE
- PHASE 1 – GENERAL TREE & STUMP REMOVAL. CONTRACTOR SHALL ONLY CLEAR AND GRUB 50 ACRES AT A TIME. CONTRACTOR SHALL STABILIZE THE 50 ACRES BEFORE MOVING TO ANOTHER SITE. TOTAL AREA = 243± AC
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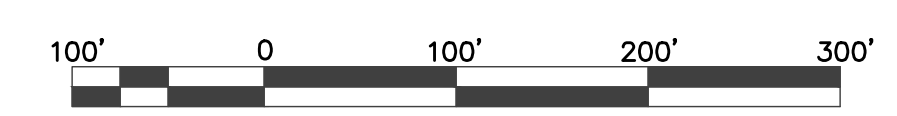


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AREA G SITE PLAN
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - PROPOSED BURN SITE
 - PHASE 1 - GENERAL TREE & STUMP REMOVAL. CONTRACTOR SHALL COORDINATE WITH TDEC AND MSCAA FOR THE MARKING OF TREES TO BE SELECT CUT AND TOPPED. TREES SHALL BE MARKED WHEN FOLIAGE IS PRESENT AND CUT WHEN NO FOLIAGE IS PRESENT OR DURING WINTER MONTHS. TOTAL AREA = 243± AC
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- UTILITY NOTES:**
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH MLGW & VALERO TO MARK AND FLAG THE EXACT LOCATION OF THE GAS EASEMENT AND PIPELINES.
 2. NO HEAVY CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL OVER THE EXISTING MLGW GAS TRANSMISSION EASEMENT. ANY CONSTRUCTION TRAFFIC SHALL BE CHANNELLED TO A DESIGNATED LOCATION - SUBJECT TO MLGW APPROVAL, TO CROSS AT A 90-DEGREE ANGLE. THE EASEMENT SHALL BE PROTECTED AT THAT LOCATION BY OAK MATTING - SUBJECT TO MLGW APPROVAL. THE EXISTING MLGW EASEMENT SHALL BE MARKED/PROTECTED WITH A TEMPORARY FENCE, LIKE AN ORANGE PLASTIC SAFETY FENCE, TO CHANNEL TRAFFIC TO THE PROTECTED MATTING AREA.
 3. THE TREES TO BE CLEARED ALONG THE GAS EASEMENT SHALL BE FELLED IN A MANNER SO THAT THE TREE DOES NOT FALL INTO THE EASEMENT.
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NO.	DATE	DESCRIPTION

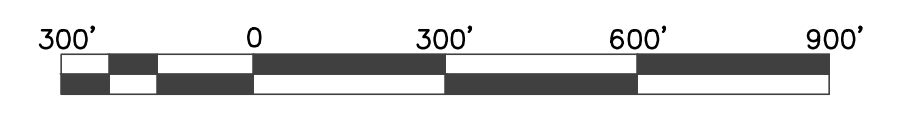


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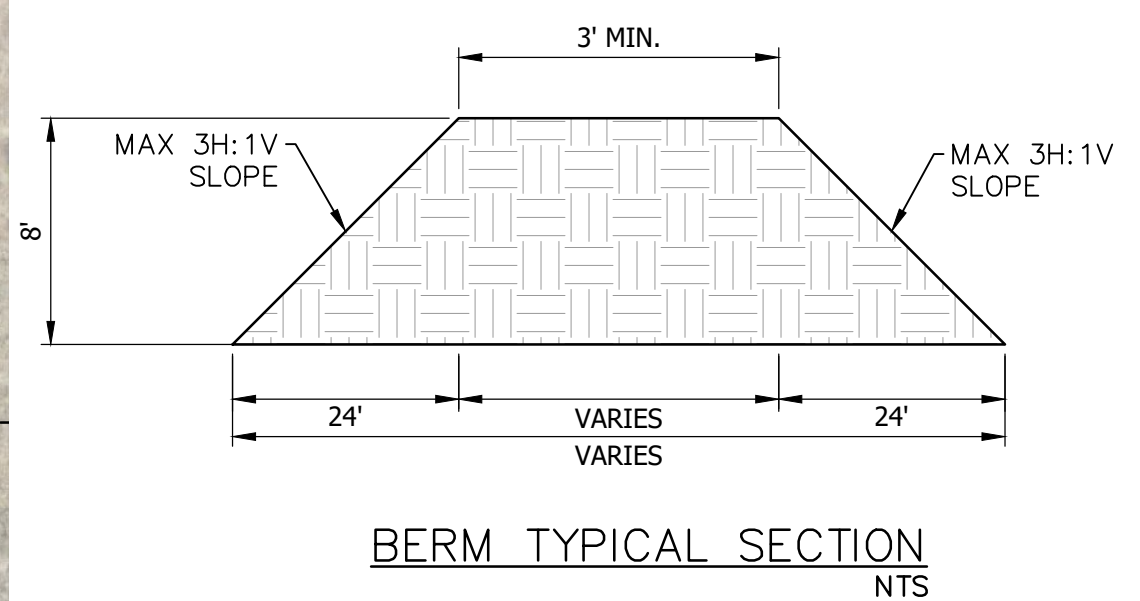
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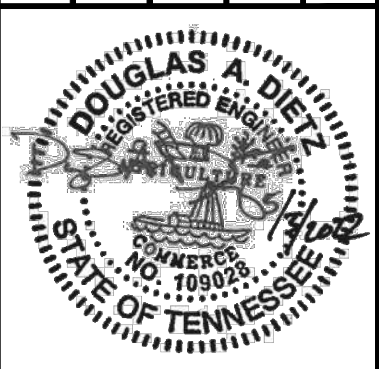
AREA H SITE PLAN
MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDEPAH OBSTRUCTION
CLEARING



- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - 350- MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - BERM LOCATION
 - STORM PIPE EXTENSION



NO.	DESCRIPTION	DATE



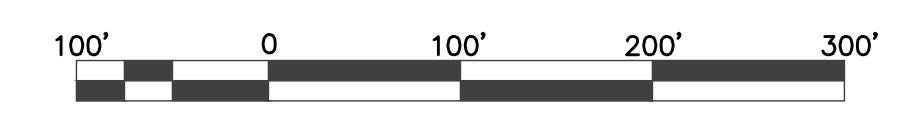
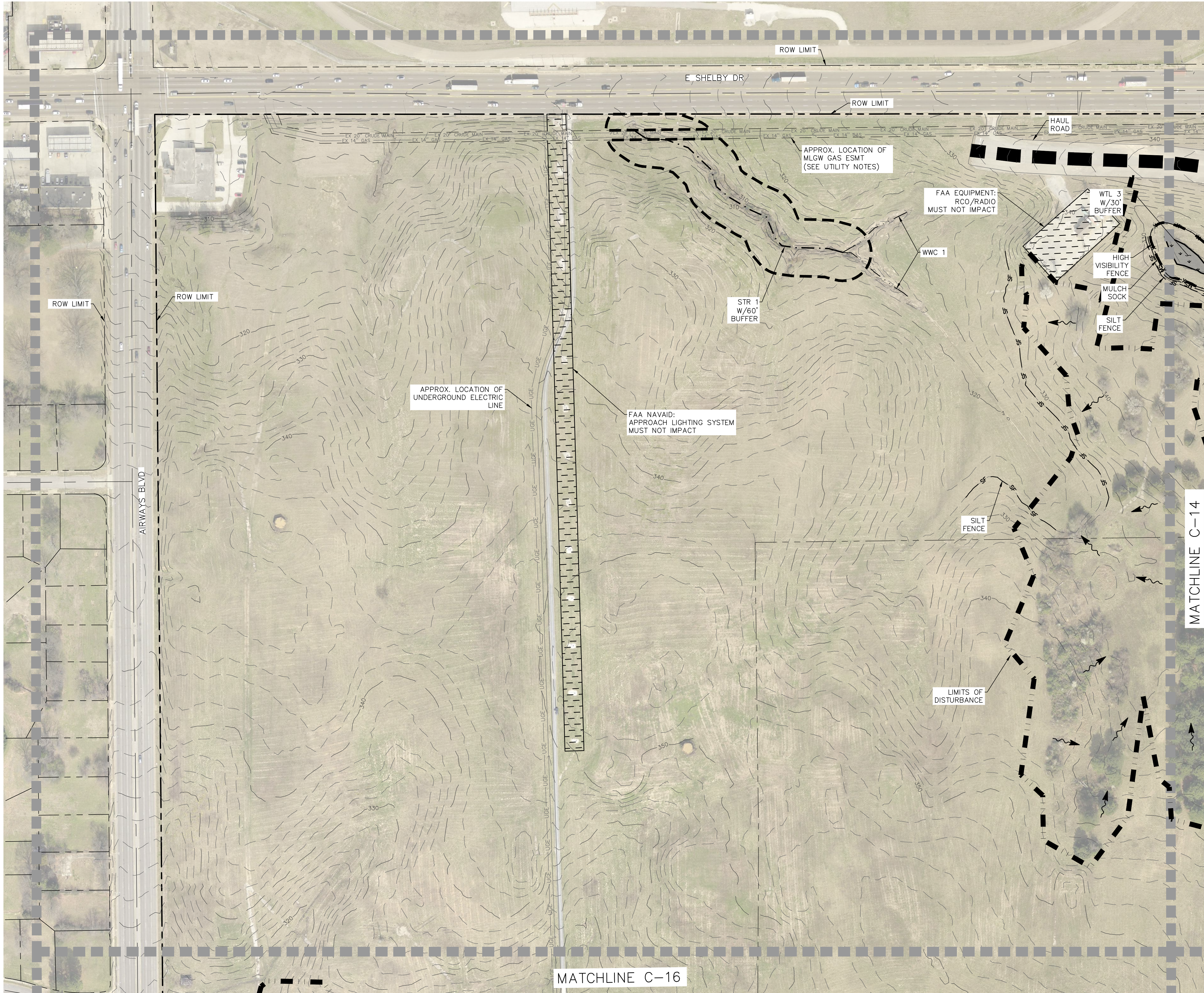
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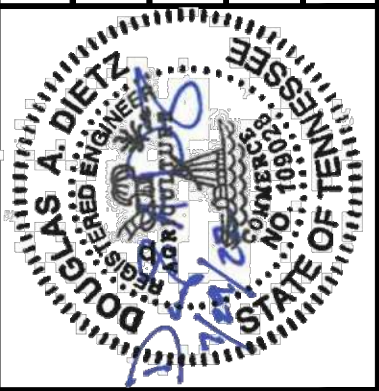
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BERM LOCATION PLAN
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R:\MSCAA\20034\03 Project Exec\CAD\01 Master\C-12 BERM LOCATION PLAN.dwg 7/12/2022 4:59:37 PM



- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - X-X- HIGH VISIBILITY FENCE
 - SF SILT FENCE WITH BACKING
 - MS MULCH SOCK
 - ▲ CHECK DAM
 - ▬ CONSTRUCTION EXIT
 - ▬ SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ∧ ENHANCED SILT FENCE CHECK (V-DITCH)
 - ⊕ CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAIL ROAD



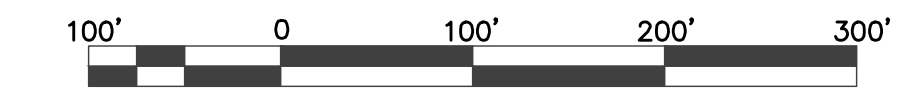
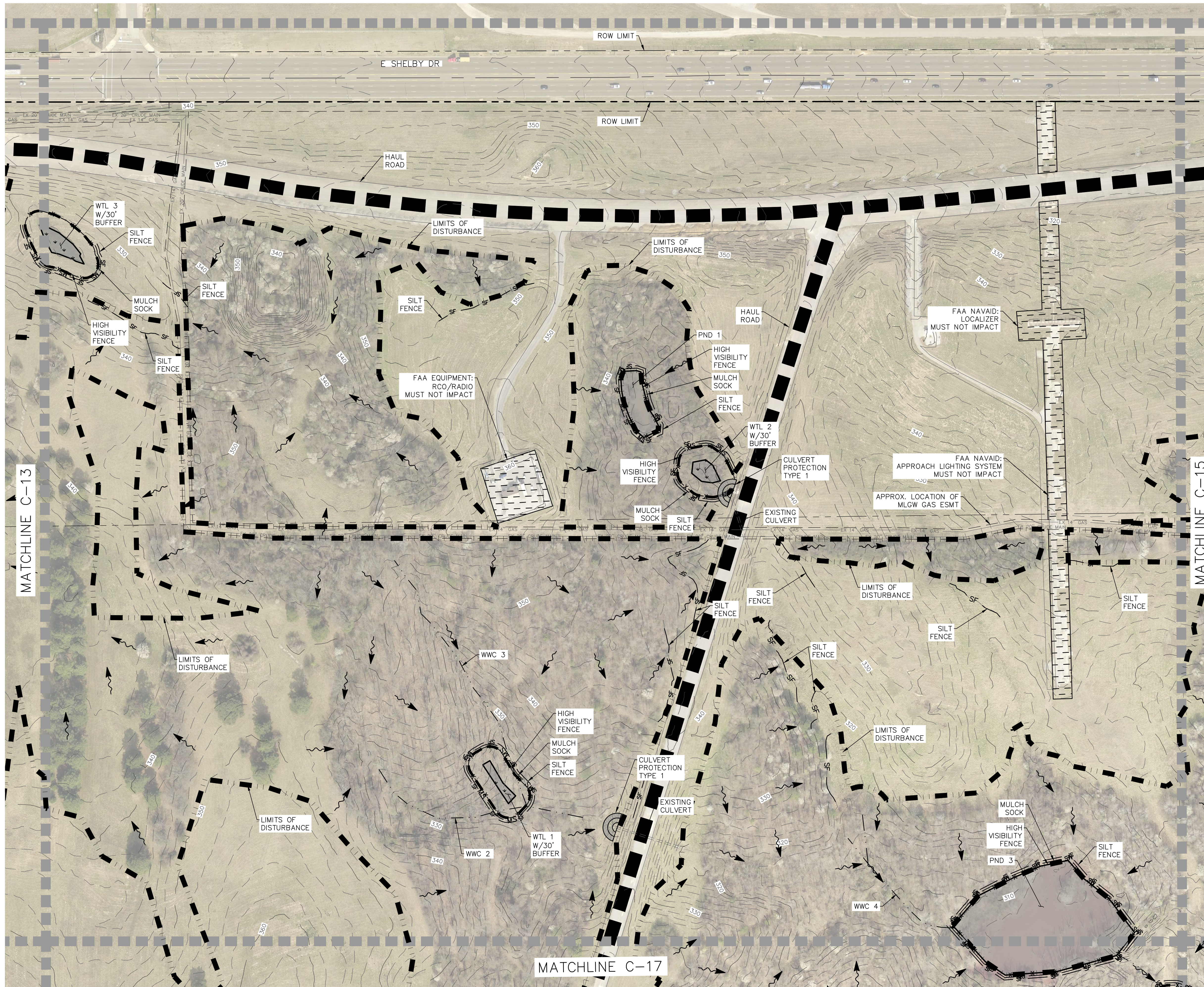
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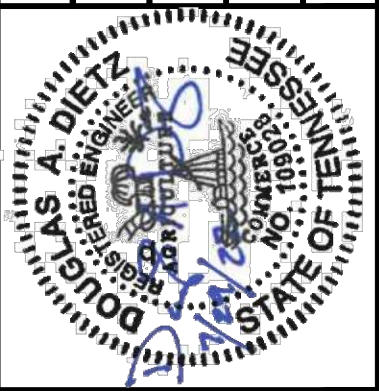
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - X-X- HIGH VISIBILITY FENCE
 - SF- SILT FENCE WITH BACKING
 - MS- MULCH SOCK
 - ▲ CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ∨ ENHANCED SILT FENCE CHECK (V-DITCH)
 - ⊔ CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD

NO.	REVISIONS



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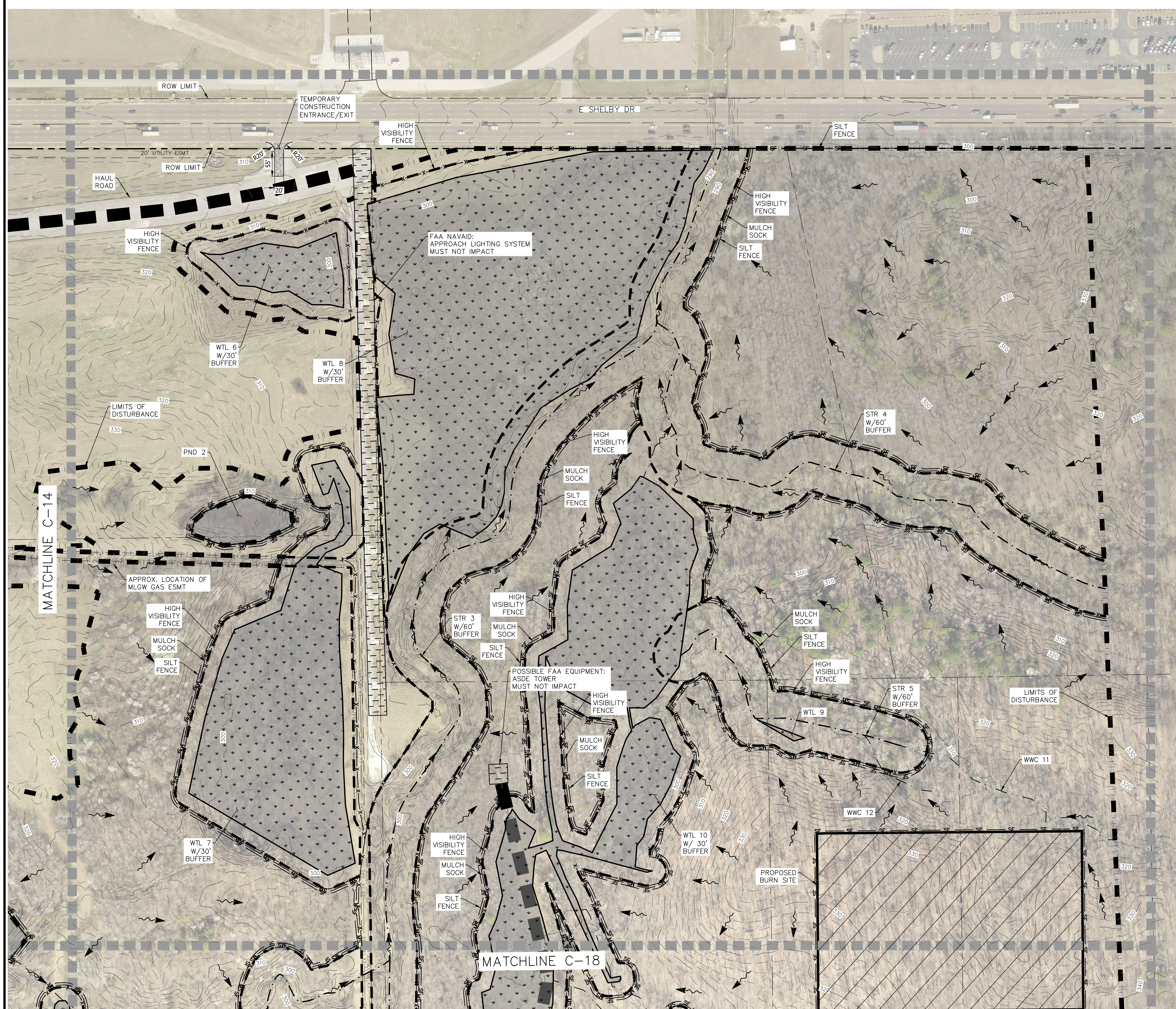
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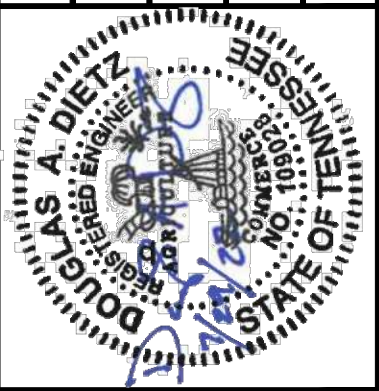
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - HIGH VISIBILITY FENCE
 - SILT FENCE WITH BACKING
 - MULCH SOCK
 - CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD



REVISIONS			



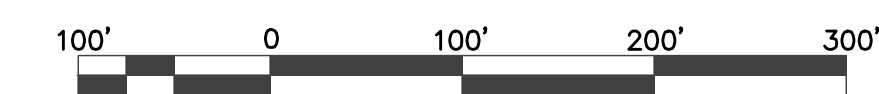
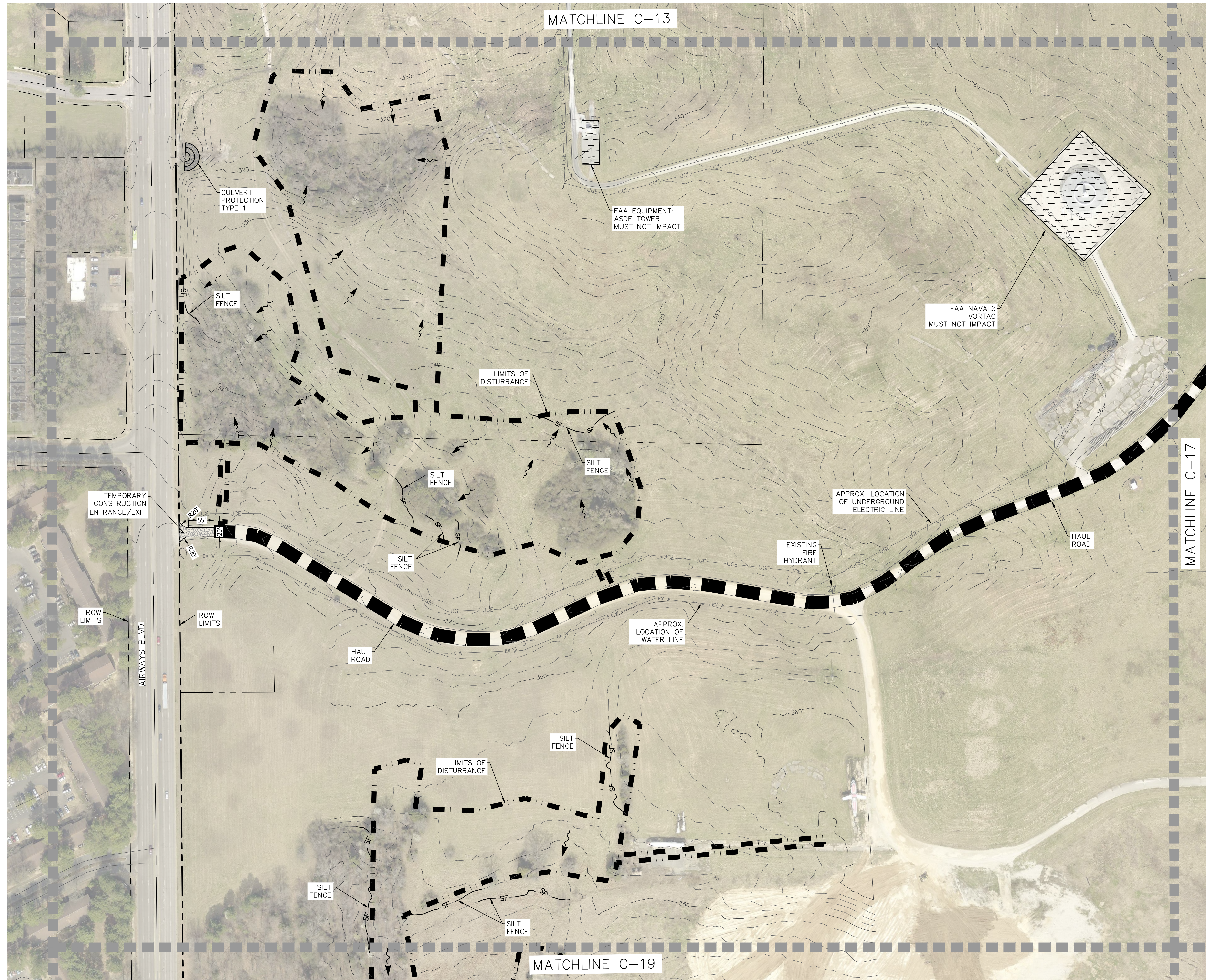
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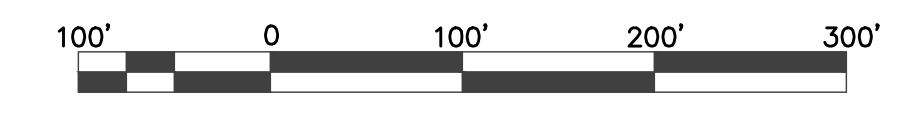
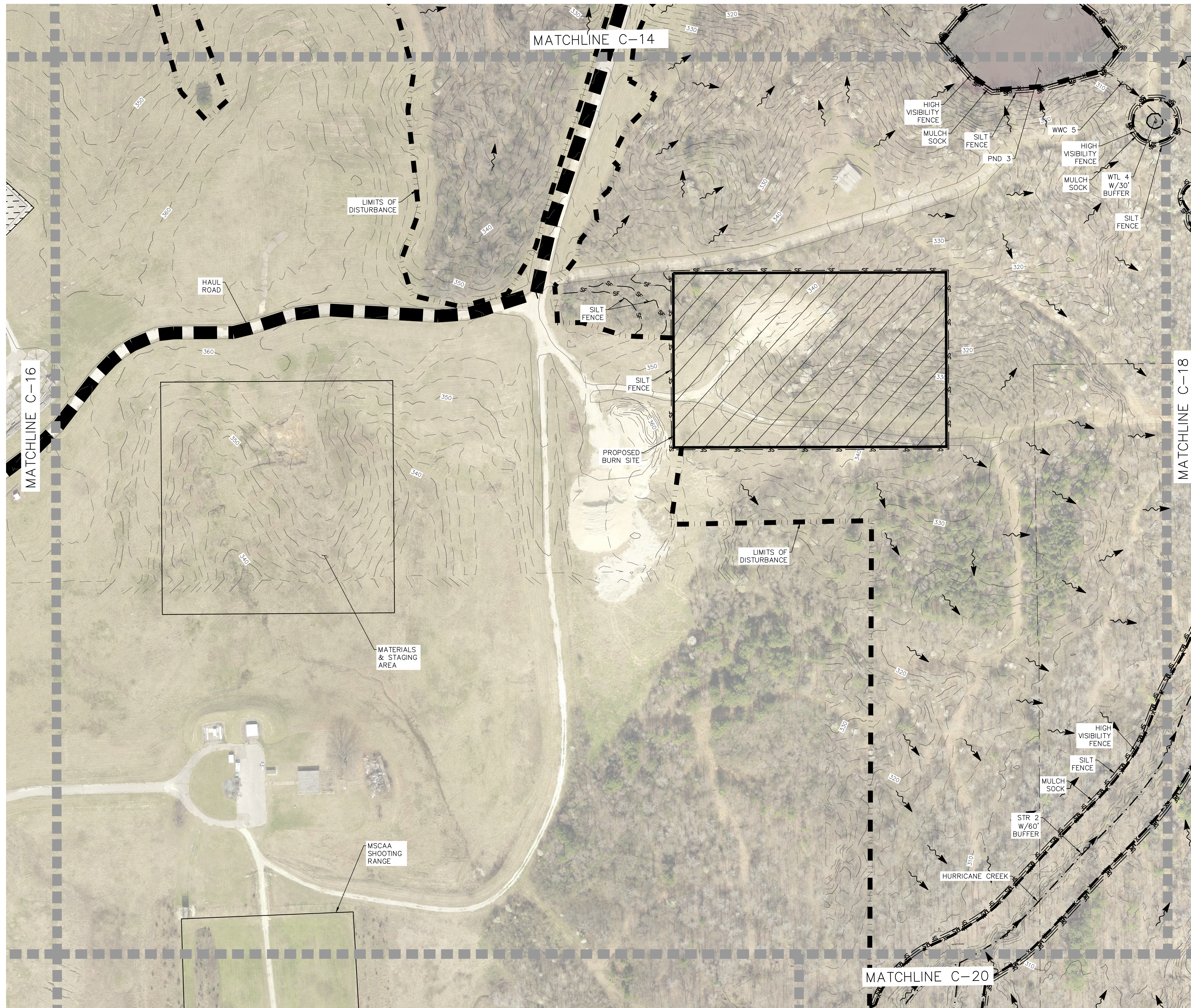
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LEGEND

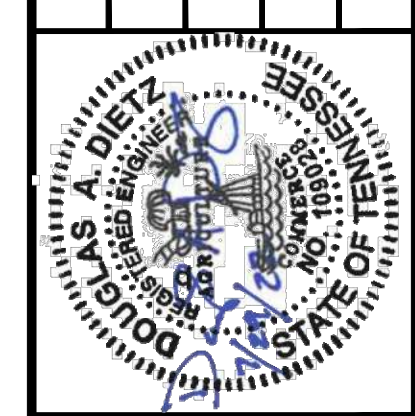
- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
- WET WEATHER CONVEYANCE (WWC)
- WETLANDS (WTL)
- HIGH VISIBILITY FENCE
- SILT FENCE WITH BACKING
- MULCH SOCK
- CHECK DAM
- CONSTRUCTION EXIT
- SEDIMENT TRAP WITH CHECK DAM
- OUTFALL
- ENHANCED SILT FENCE CHECK (V-DITCH)
- CULVERT PROTECTION TYPE 1
- FLOW DIRECTION ARROW
- FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
- HAUL ROAD

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AREA D EPSC STAGE 1 MSCAA SOUTH APPROACH SUPPORT FOR GLIDEPATH OBSTRUCTION CLEARING							
SHEET C-16							



- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - HIGH VISIBILITY FENCE
 - SILT FENCE WITH BACKING
 - MULCH SOCK
 - CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD

NO.	DESCRIPTION	DATE



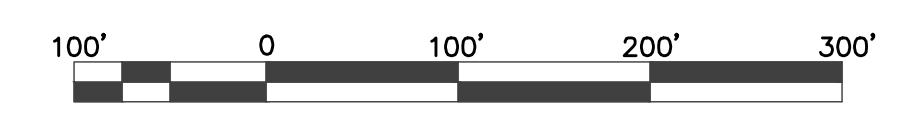
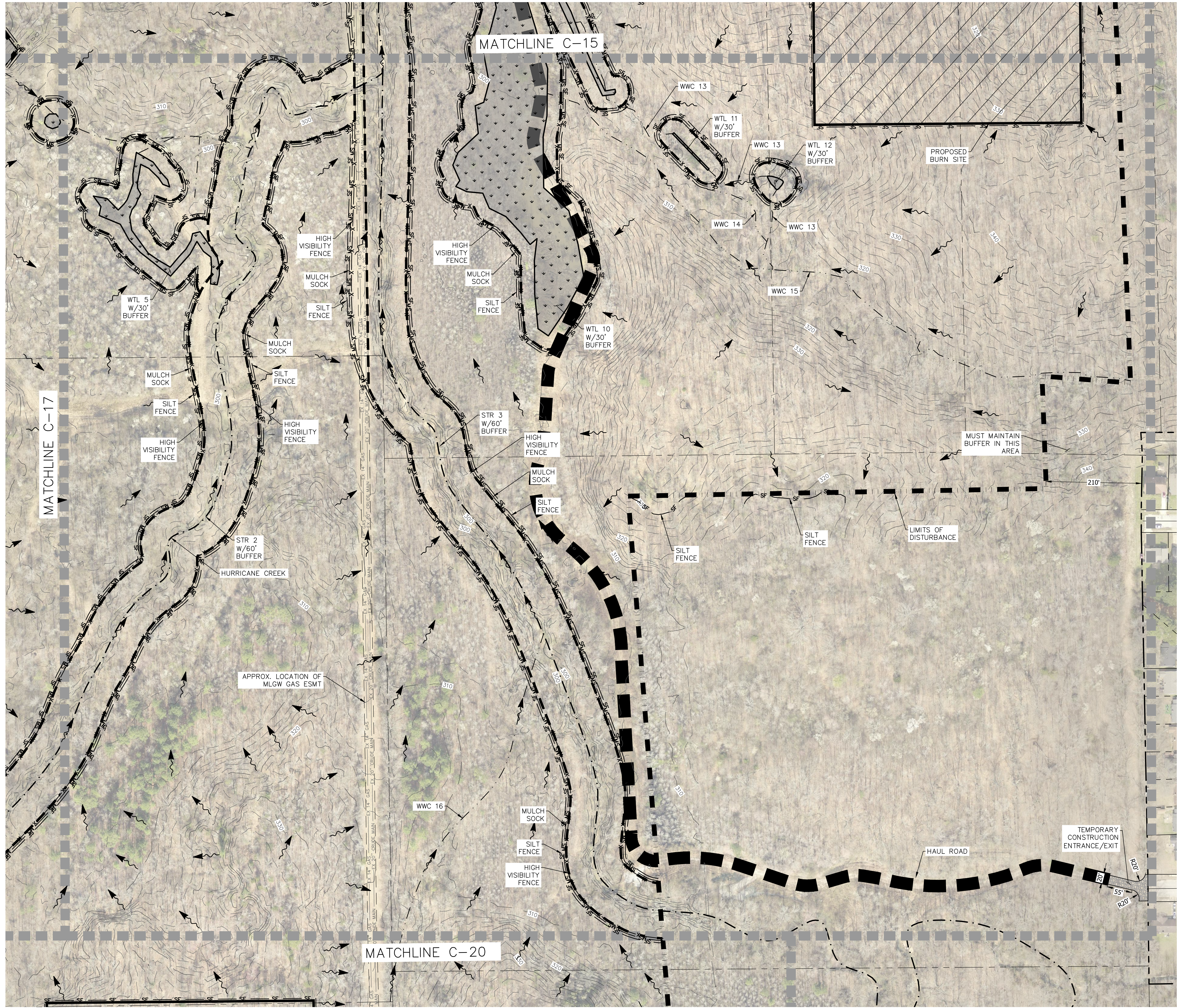
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LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
- WET WEATHER CONVEYANCE (WWC)
- WETLANDS (WTL)
- HIGH VISIBILITY FENCE
- SILT FENCE WITH BACKING
- MULCH SOCK
- CHECK DAM
- CONSTRUCTION EXIT
- SEDIMENT TRAP WITH CHECK DAM
- OUTFALL
- ENHANCED SILT FENCE CHECK (V-DITCH)
- CULVERT PROTECTION TYPE 1
- FLOW DIRECTION ARROW
- FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
- HAUL ROAD



NO.	DESCRIPTION	DATE



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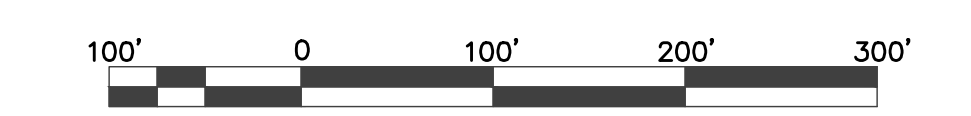
SHEET
C-18

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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - HIGH VISIBILITY FENCE
 - SILT FENCE WITH BACKING
 - MULCH SOCK
 - CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW

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SHEET C-19				



- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - HIGH VISIBILITY FENCE
 - SILT FENCE WITH BACKING
 - MULCH SOCK
 - CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW

NO.	DATE	REVISIONS



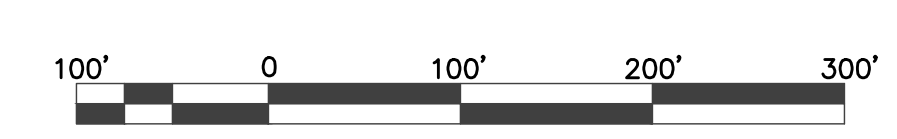
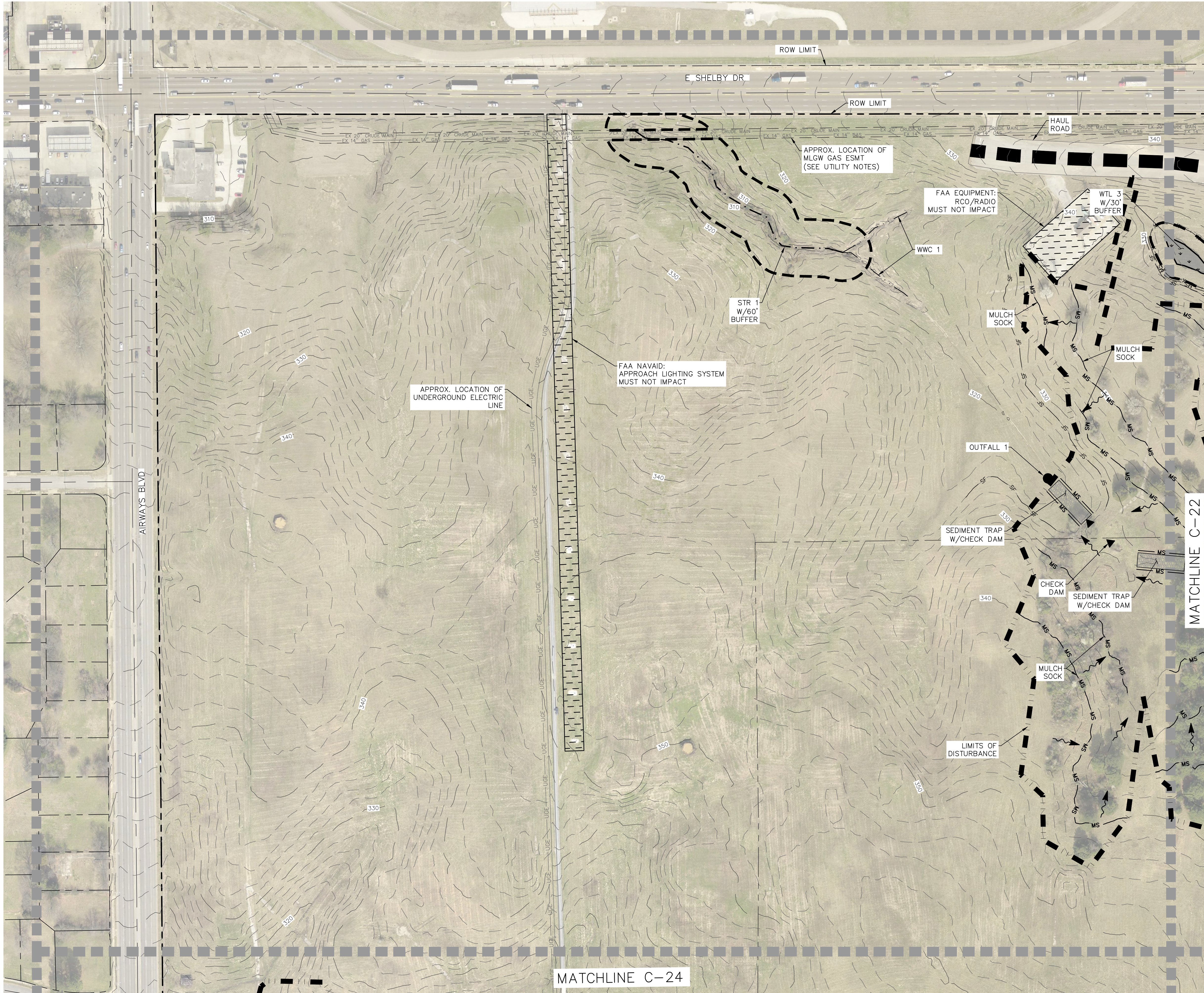
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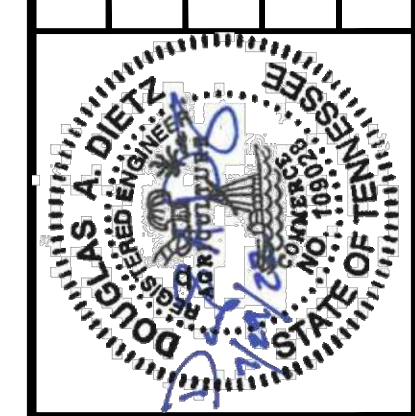
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FOR
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CLEARING

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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - HIGH VISIBILITY FENCE
 - SILT FENCE WITH BACKING
 - MULCH SOCK
 - CHECK DAM
 - CONSTRUCTION EXIT
 - SEDIMENT TRAP WITH CHECK DAM
 - OUTFALL
 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD

NO.	DATE	REVISIONS



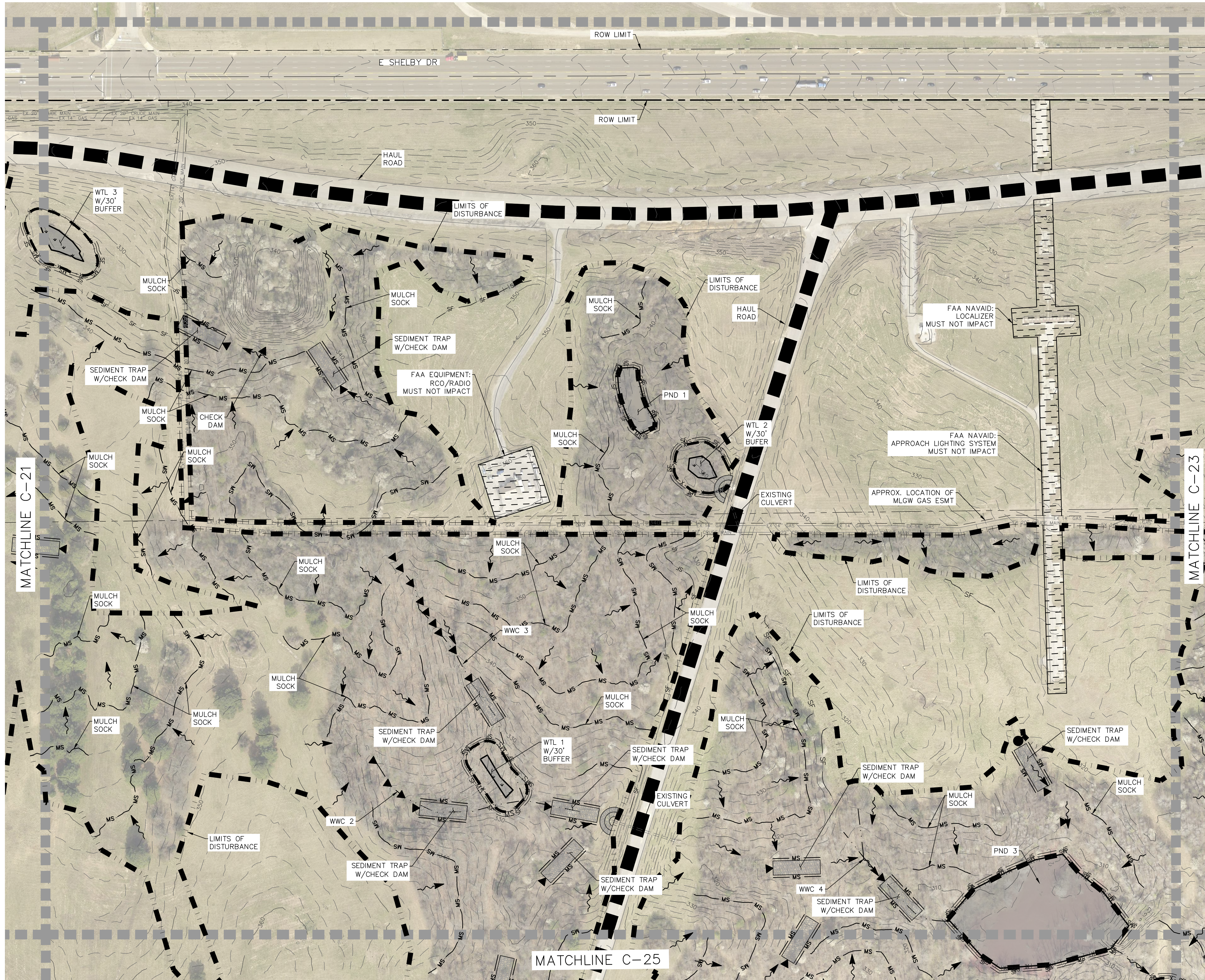
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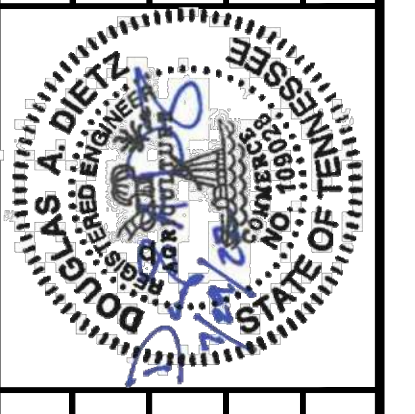
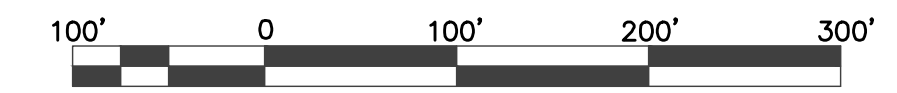
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FOR
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
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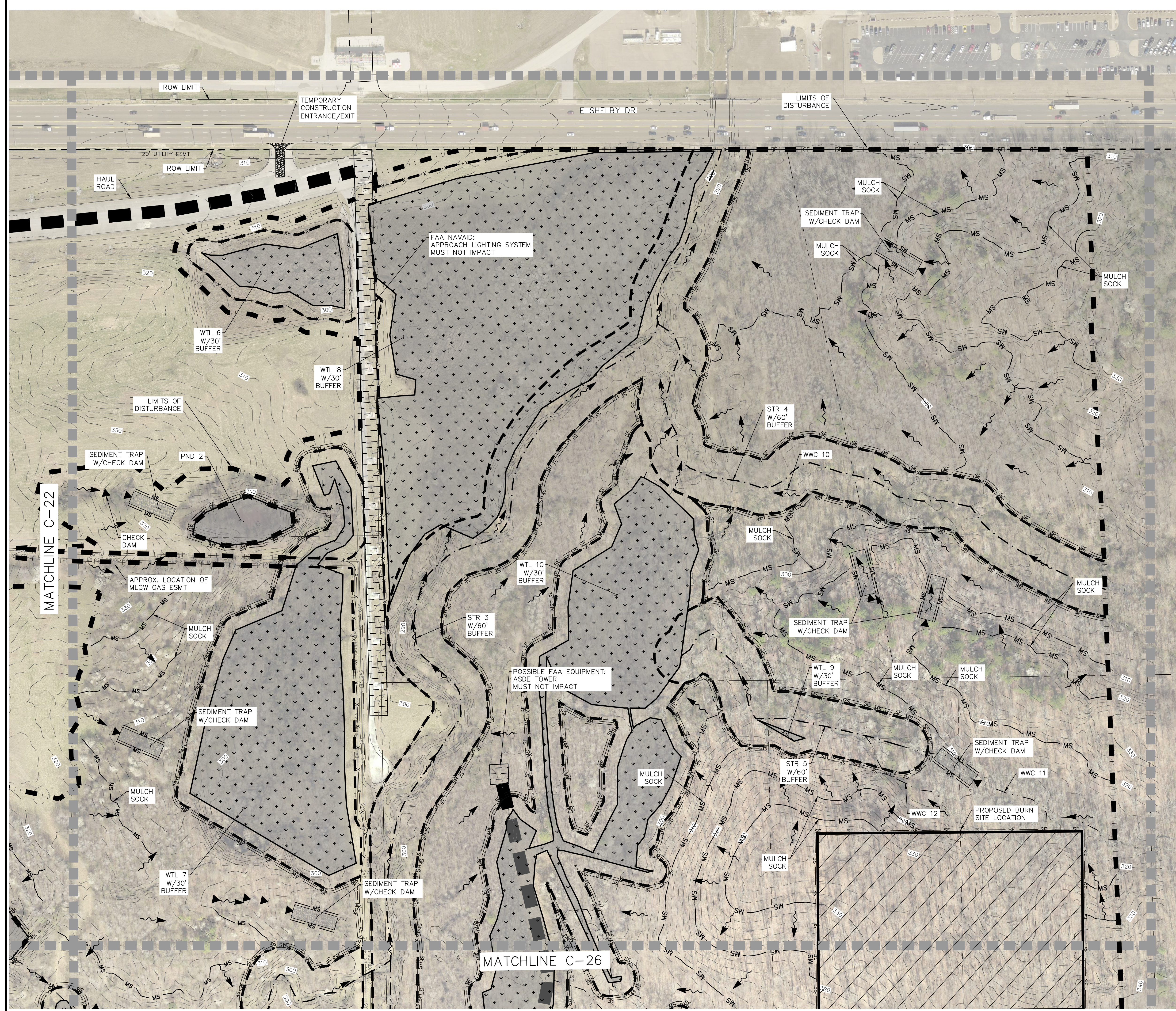
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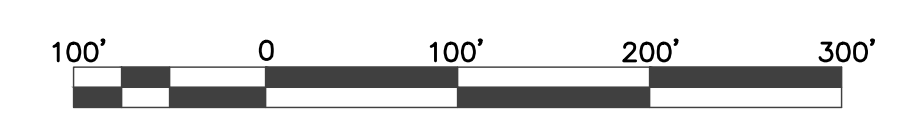
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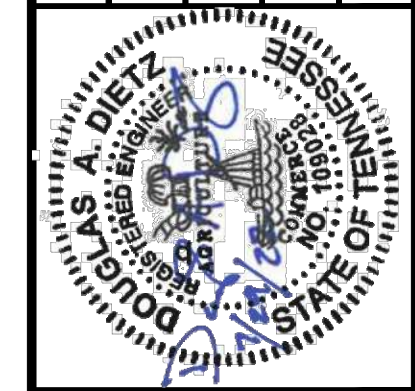
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- LEGEND**
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 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
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 - CULVERT PROTECTION TYPE 1
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REVISIONS	



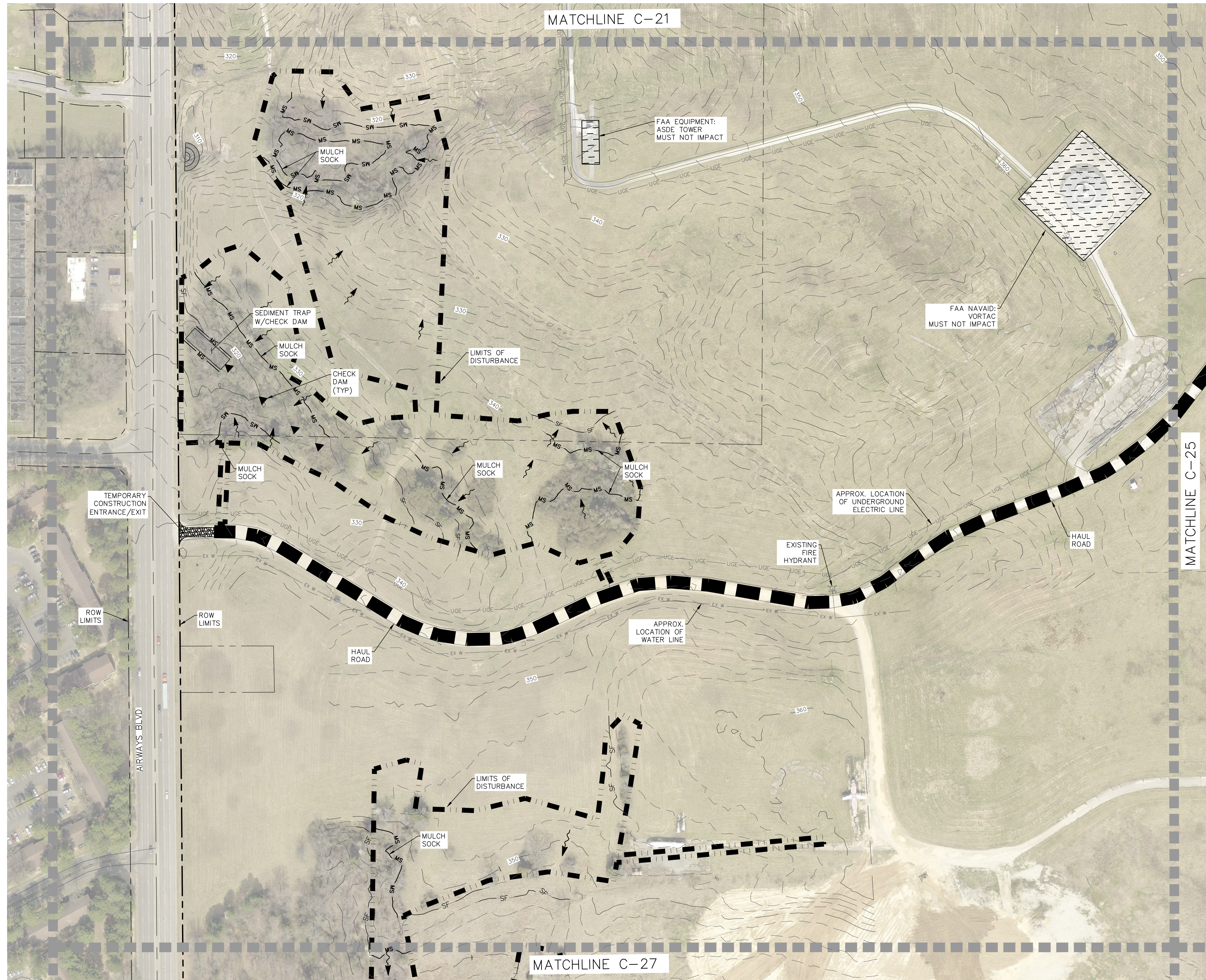
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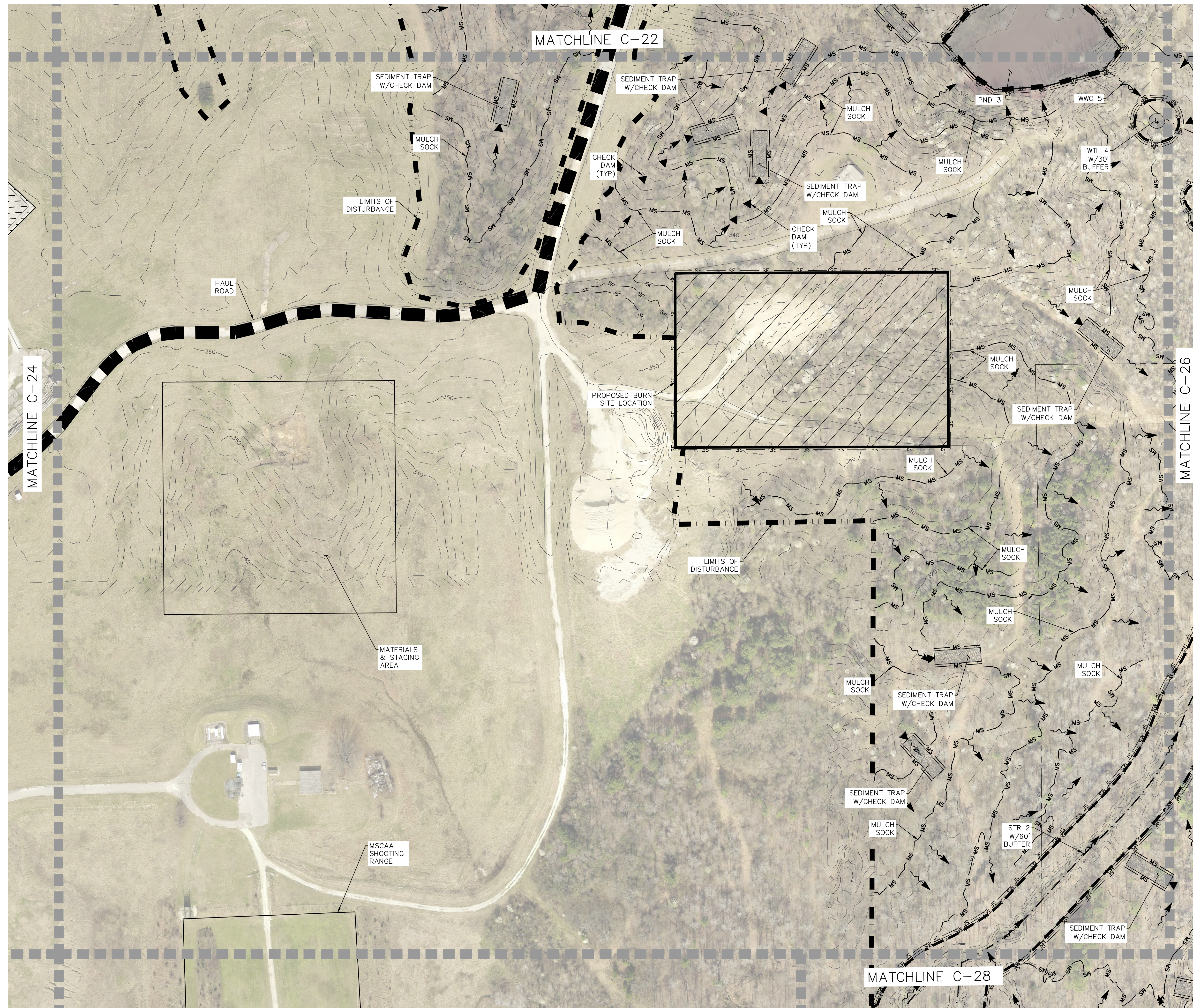


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LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
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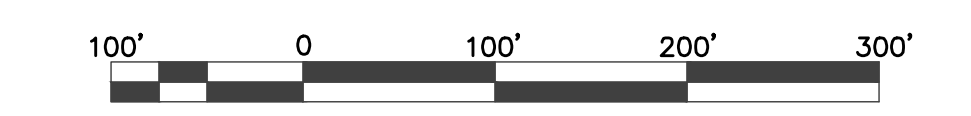
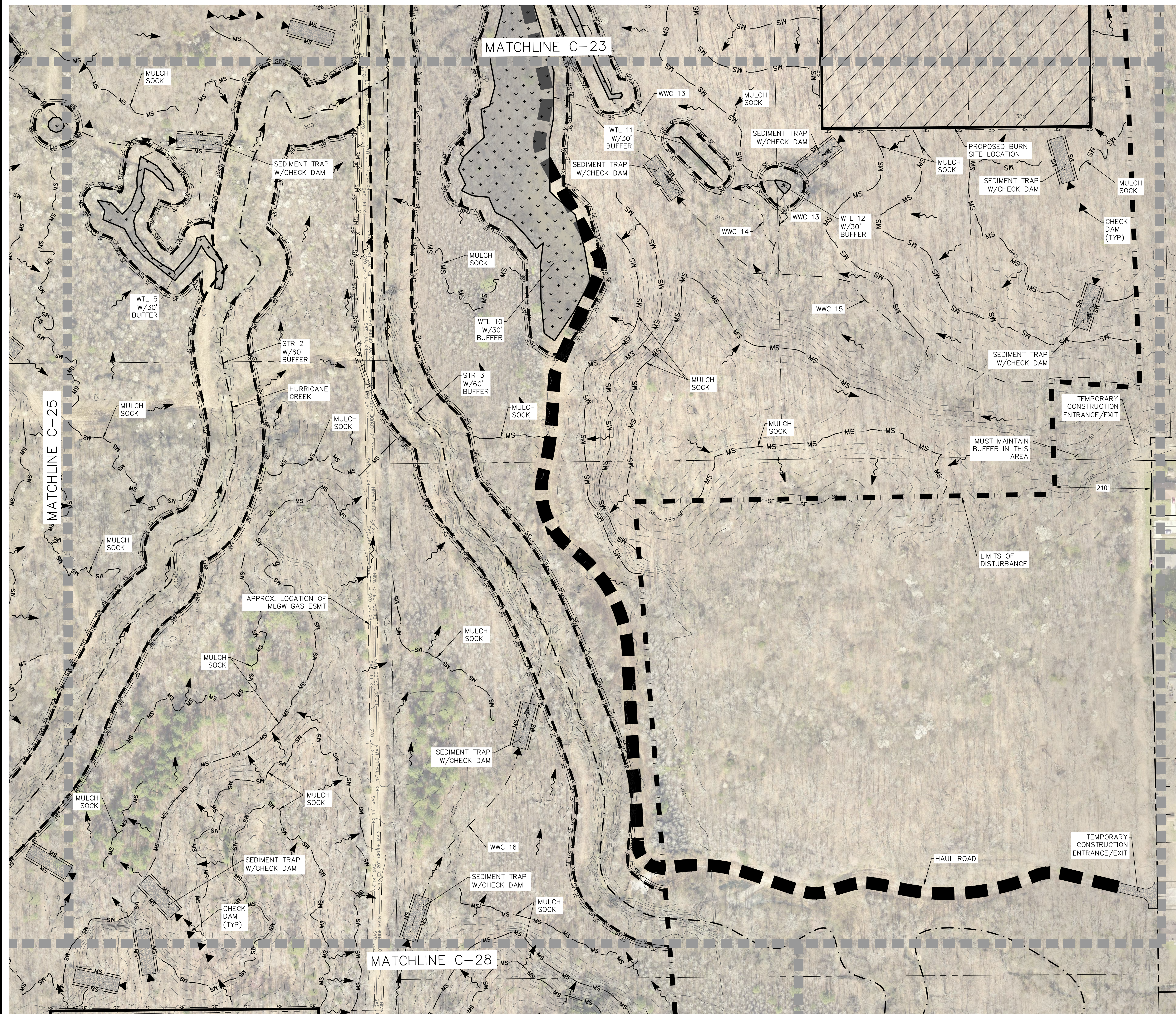
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SHEET C-24			



LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
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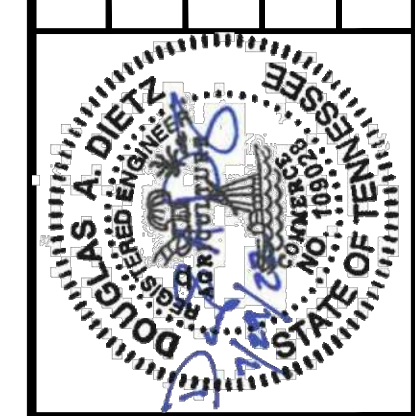
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
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 - ENHANCED SILT FENCE CHECK (V-DITCH)
 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW

NO.	DATE	DESCRIPTION



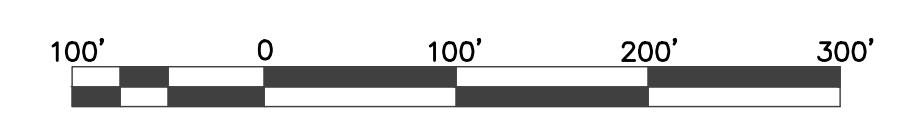
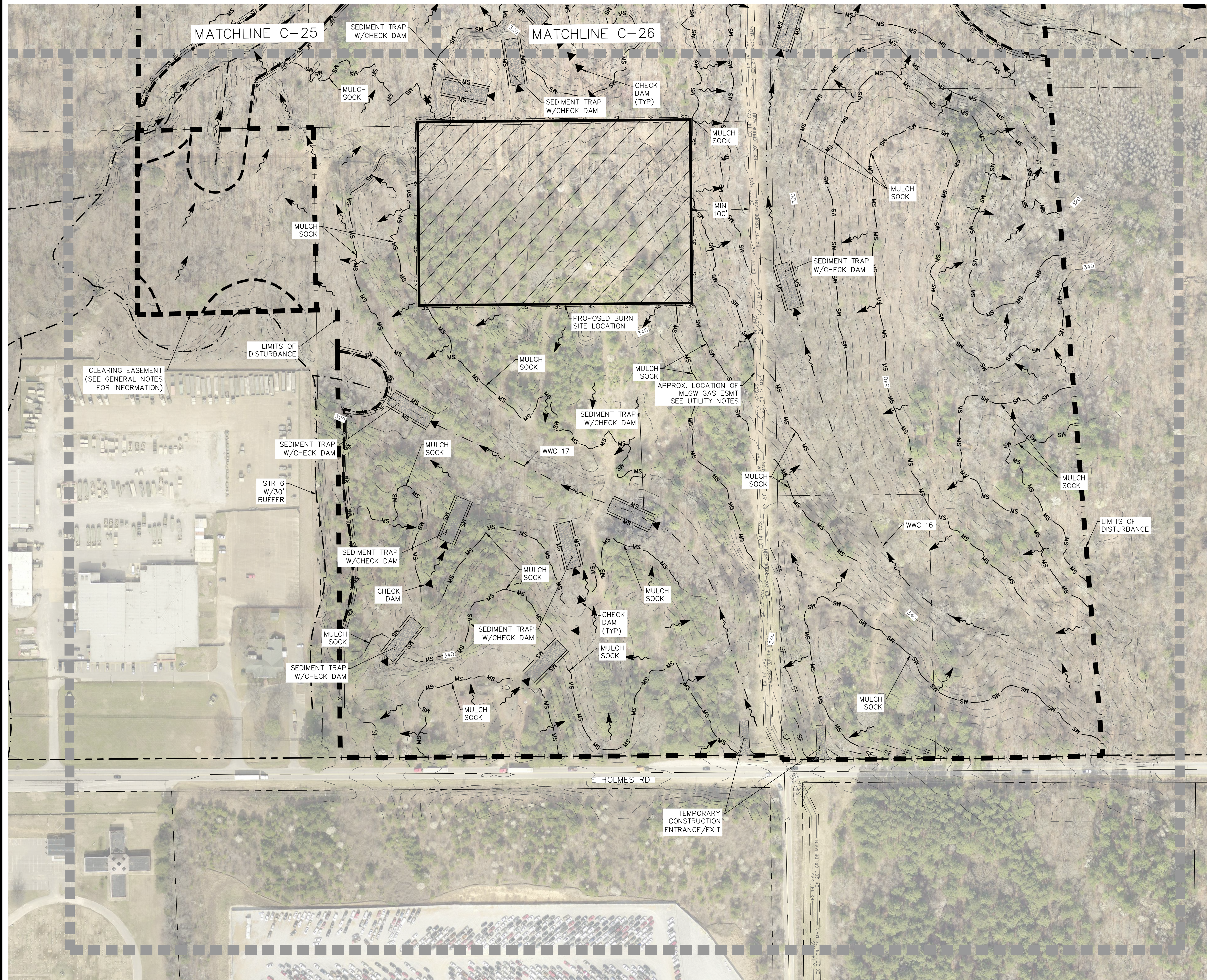
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- LEGEND**
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 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
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 - CULVERT PROTECTION TYPE 1
 - FLOW DIRECTION ARROW

NO.	DATE	DESCRIPTION



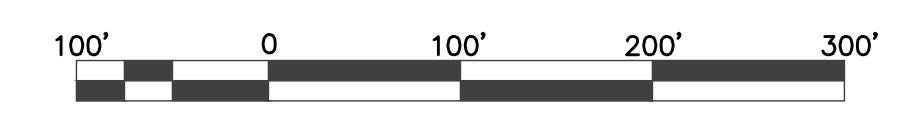
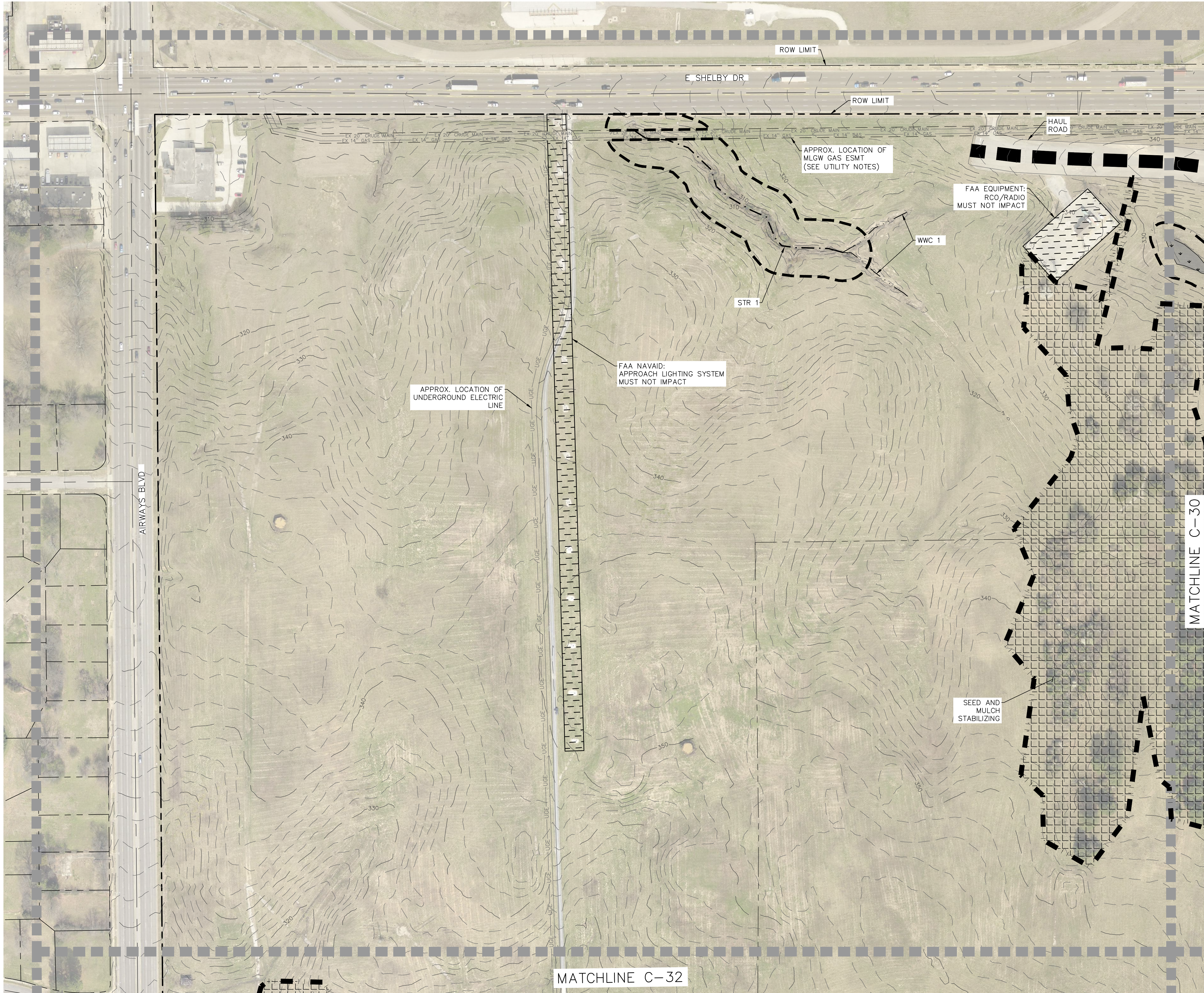
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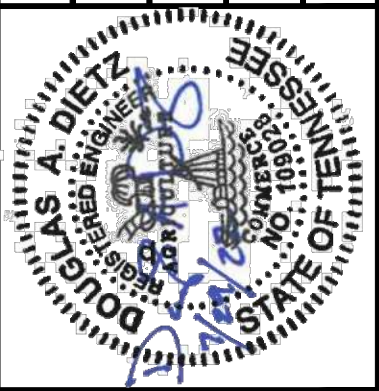
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 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - SEED AND MULCH STABILIZING
 - FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
 - HAUL ROAD



NO.	REVISIONS



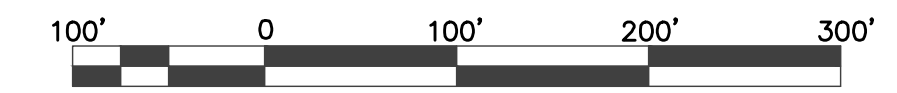
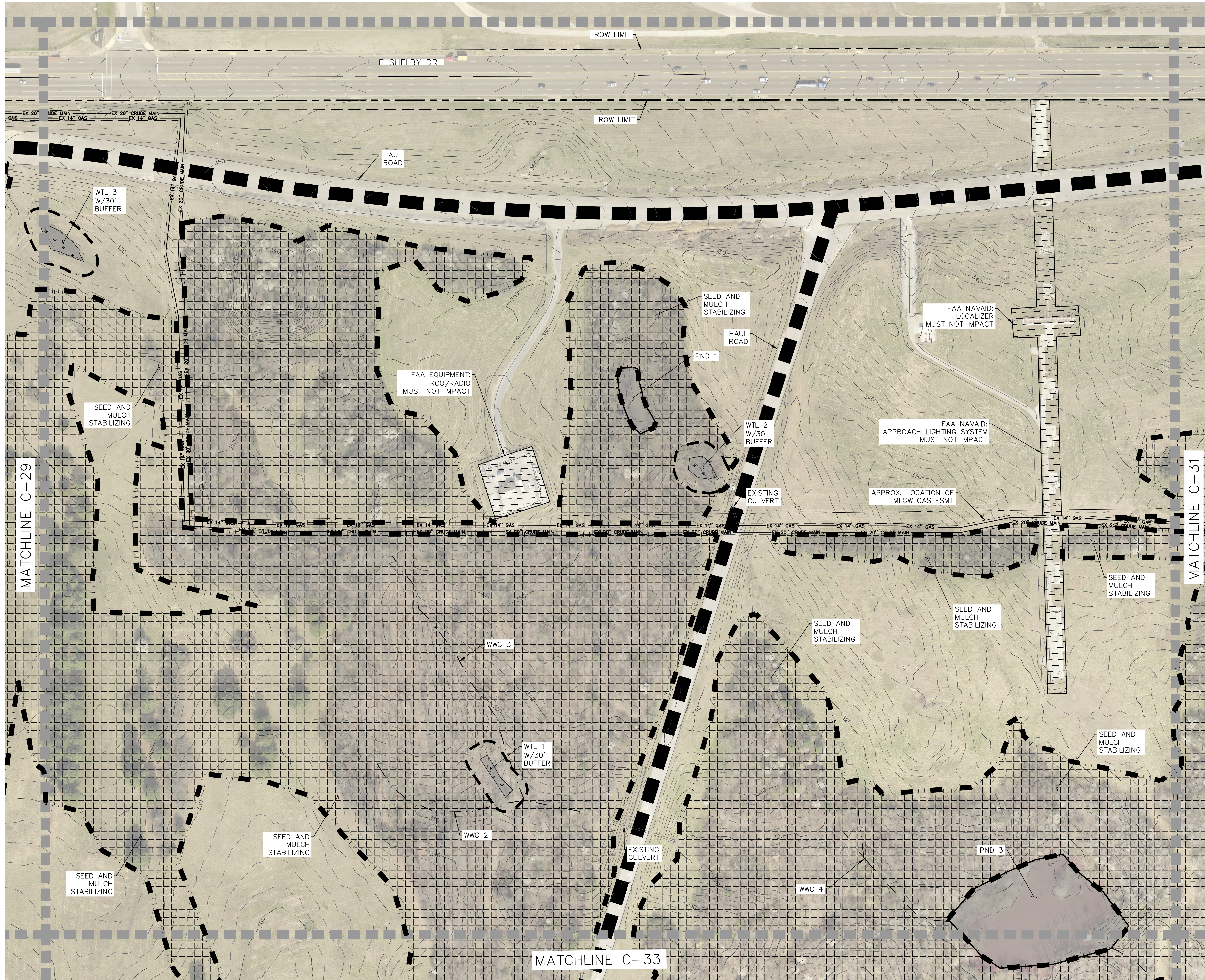
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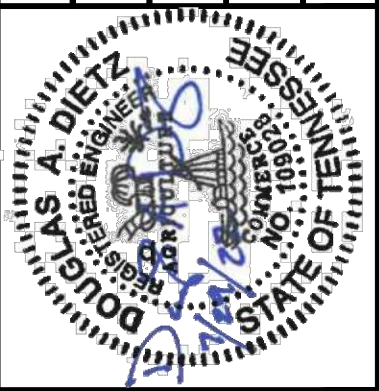
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FOR
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- LEGEND**
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 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
 - STREAM (STR)
 - WET WEATHER CONVEYANCE (WWC)
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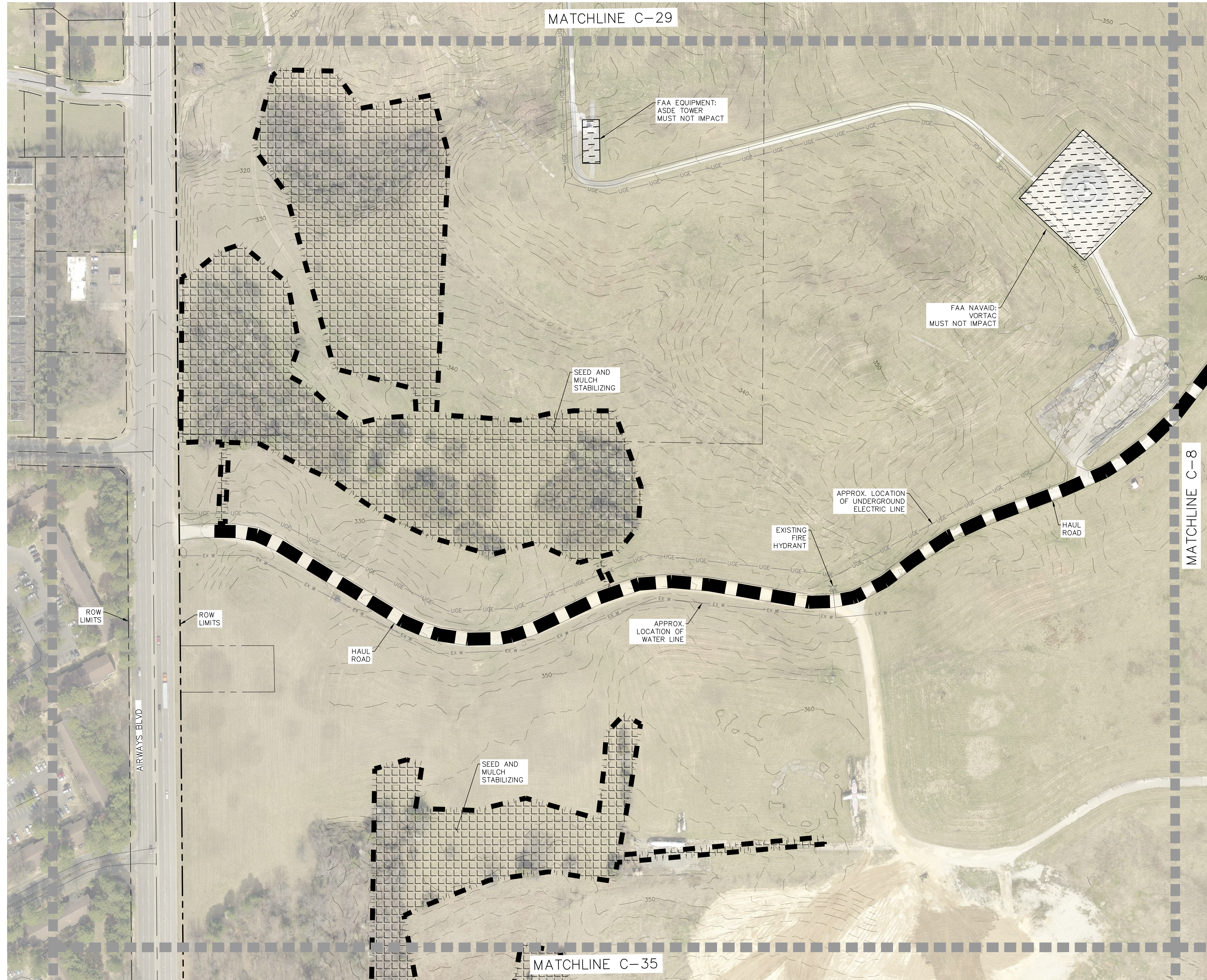
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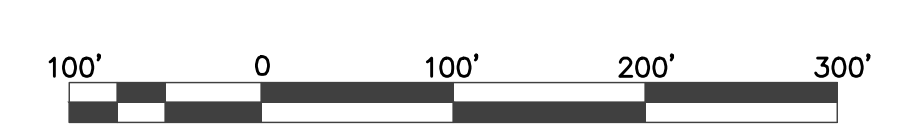


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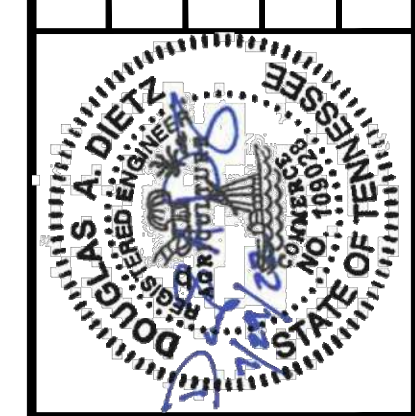
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
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 - TREE CLEARING LIMITS
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 - ▨ WETLANDS (WTL)
 - ▤ SEED AND MULCH STABILIZING
 - ▧ FAA EQUIPMENT/NAVAID - MUST NOT IMPACT
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NO.	DATE	DESCRIPTION

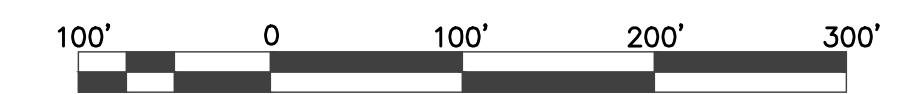
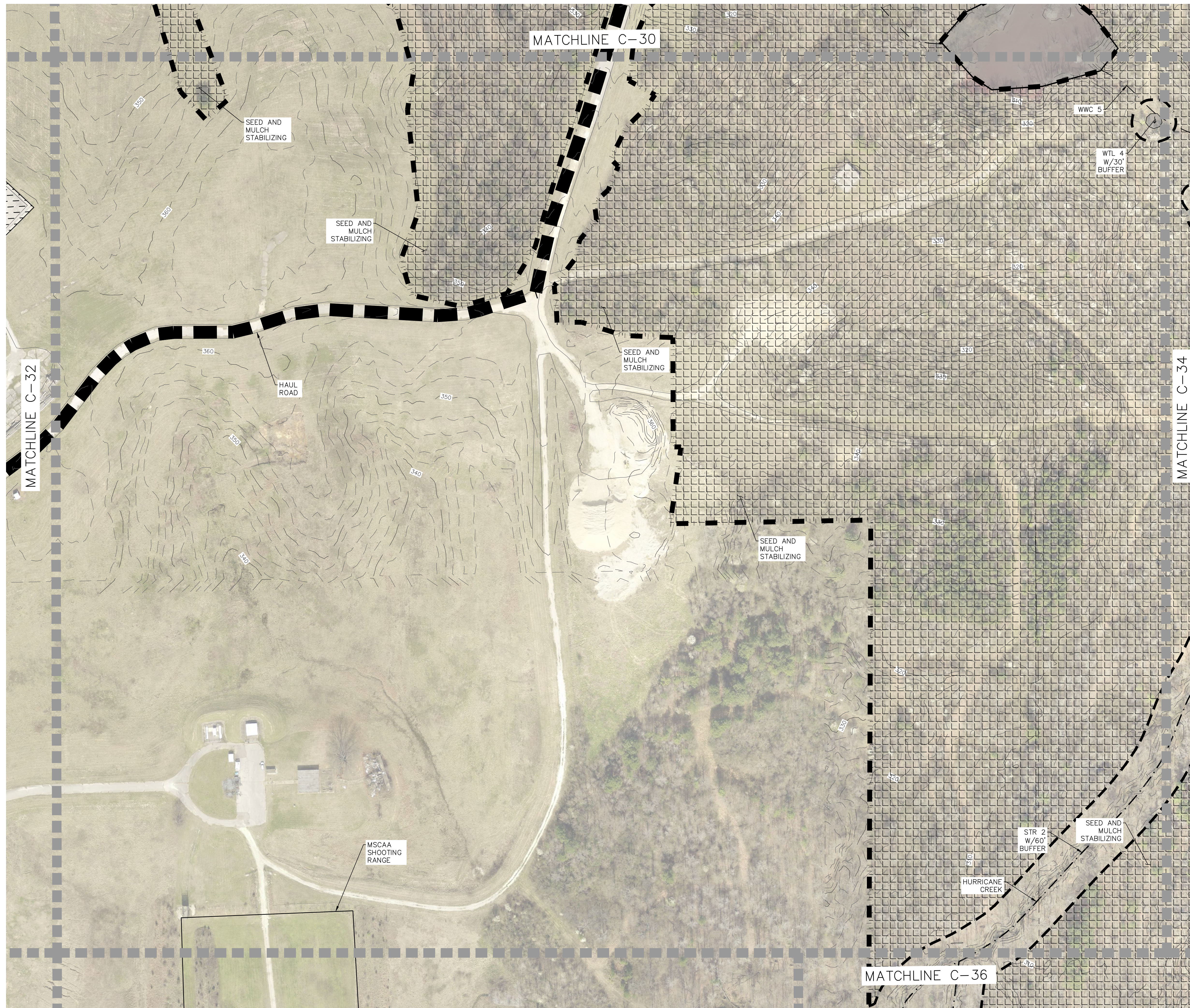


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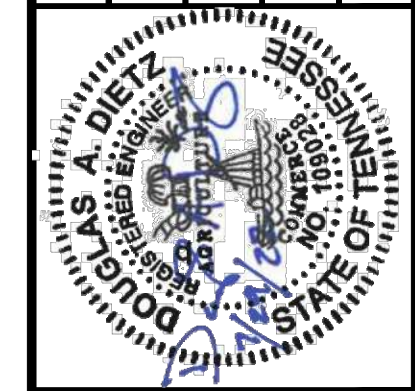
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- LEGEND**
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 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
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 - SEED AND MULCH STABILIZING
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NO.	DATE	REVISIONS



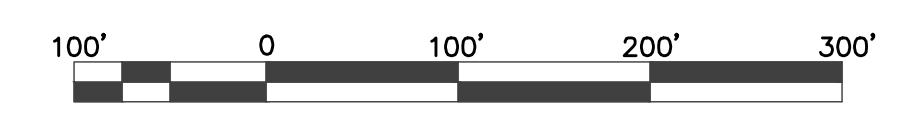
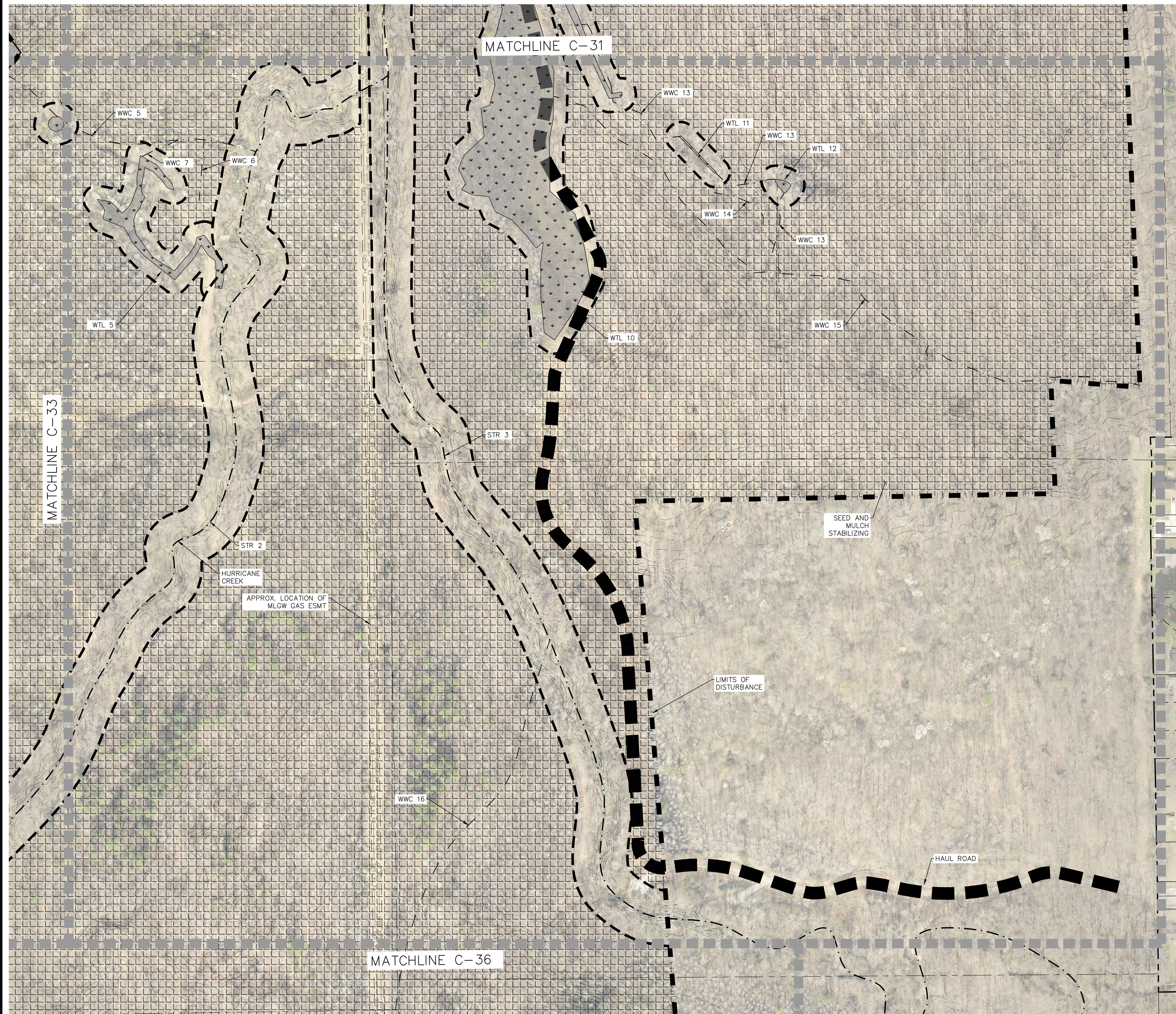
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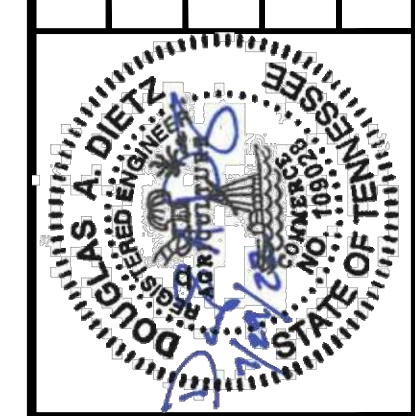
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
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NO.	DATE	DESCRIPTION



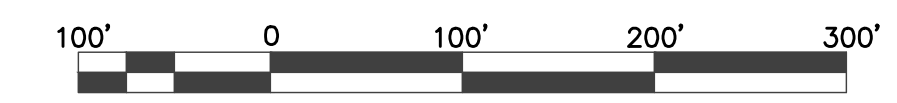
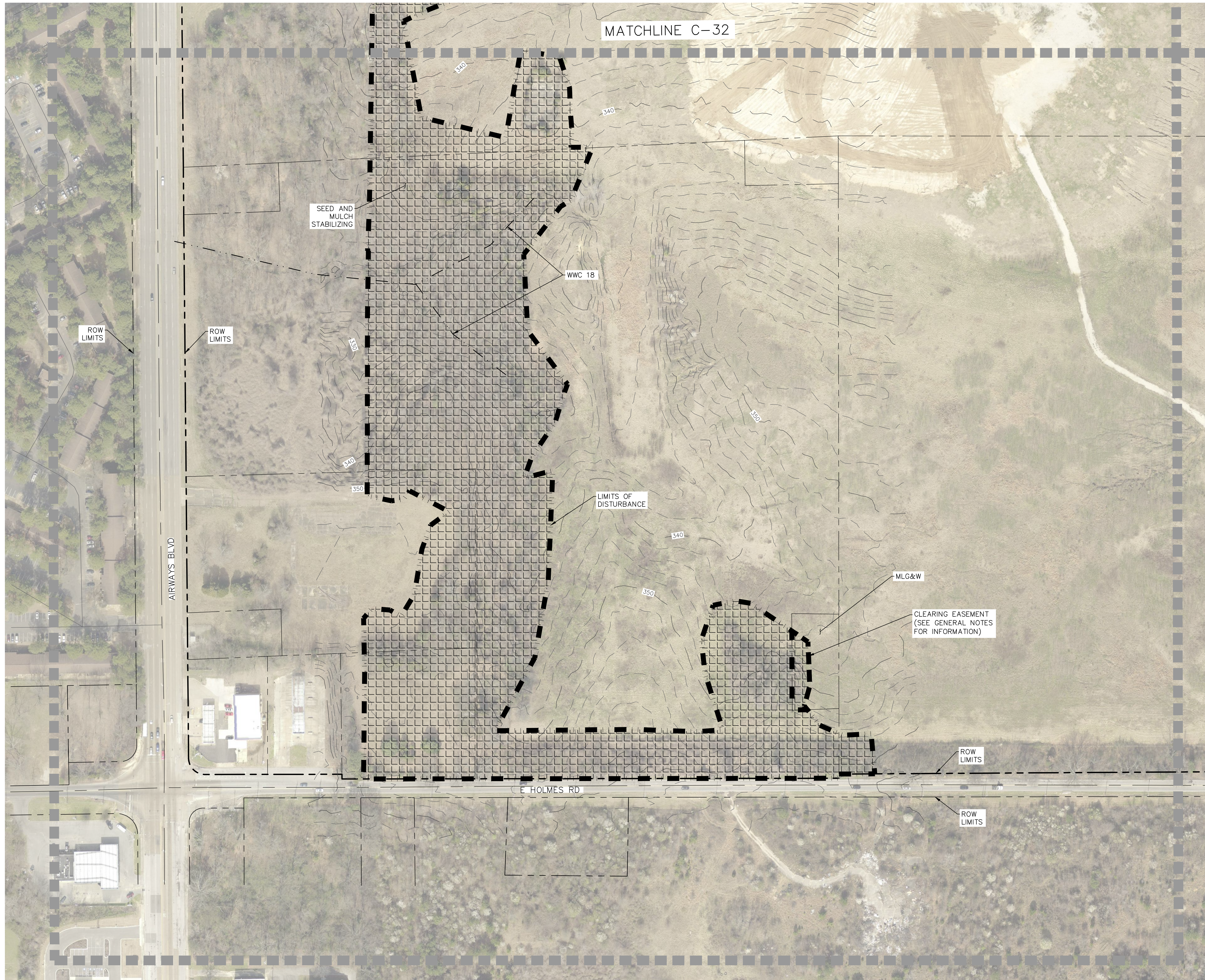
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
 - 30 FOOT BUFFER AROUND WETLANDS
 - TREE CLEARING LIMITS
 - 350--- MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
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 - WET WEATHER CONVEYANCE (WWC)
 - WETLANDS (WTL)
 - SEED AND MULCH STABILIZING

REVISIONS			

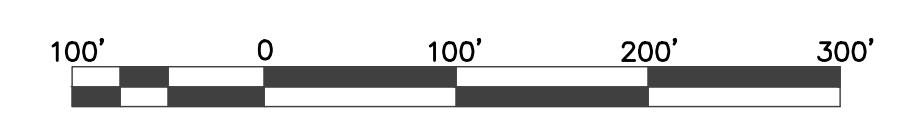
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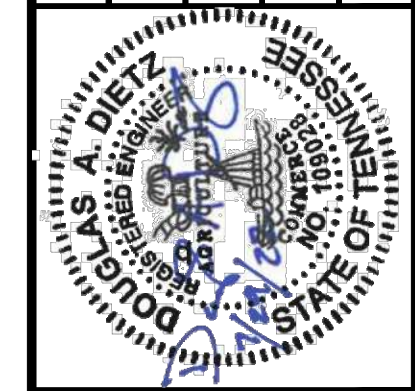
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- LEGEND**
- 60 FOOT BUFFER AROUND STREAMS
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 - TREE CLEARING LIMITS
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - POND (PND)
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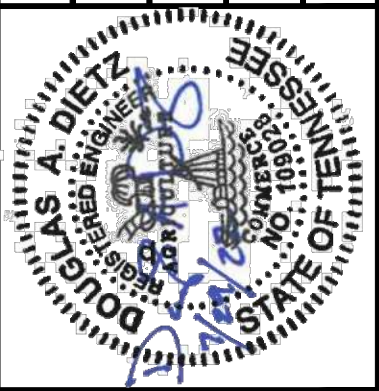
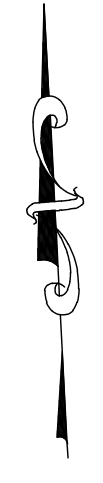
AREA H EPSC STAGE 3
MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDE PATH OBSTRUCTION
CLEARING

R:\MSCAA\20034\03 Project Exec\CAD\01 Master\C-36 AREA H EPSC STAGE 3.dwg 8/26/2021 8:20:35 AM



LEGEND

- 60 FOOT BUFFER AROUND STREAMS
- 30 FOOT BUFFER AROUND WETLANDS
- TREE CLEARING LIMITS
- MAJOR CONTOUR
- MINOR CONTOUR
- POND (PND)
- STREAM (STR)
- WET WEATHER CONVEYANCE (WWC)
- WETLANDS (WTL)
- MAX TREE HEIGHT = 0'
- MAX TREE HEIGHT = 40'
- MAX TREE HEIGHT = 100'



NO.	DATE	DESCRIPTION

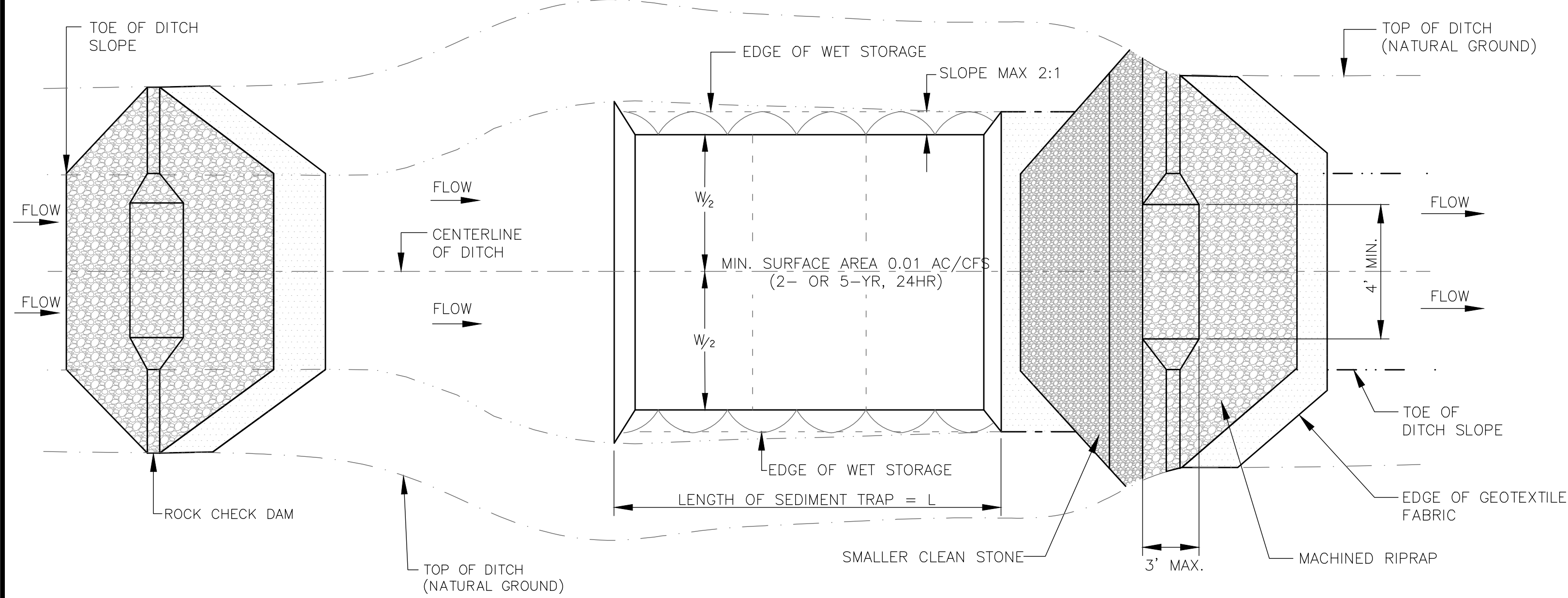
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DRAWN BY: KLH	DATE: 08/02/2022
REVIEWED BY: DD	
PROJECT NO: 088820034	

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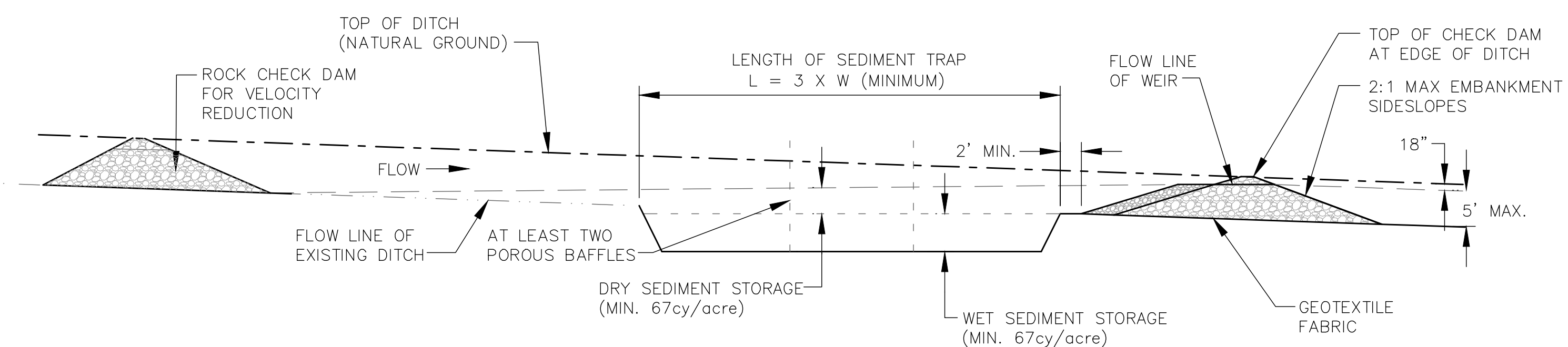
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TREE HEIGHT PLAN
FOR
MSAA SOUTH APPROACH SUPPORT
GLIDE PATH OBSTRUCTION
CLEARING

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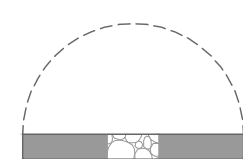


PLAN VIEW

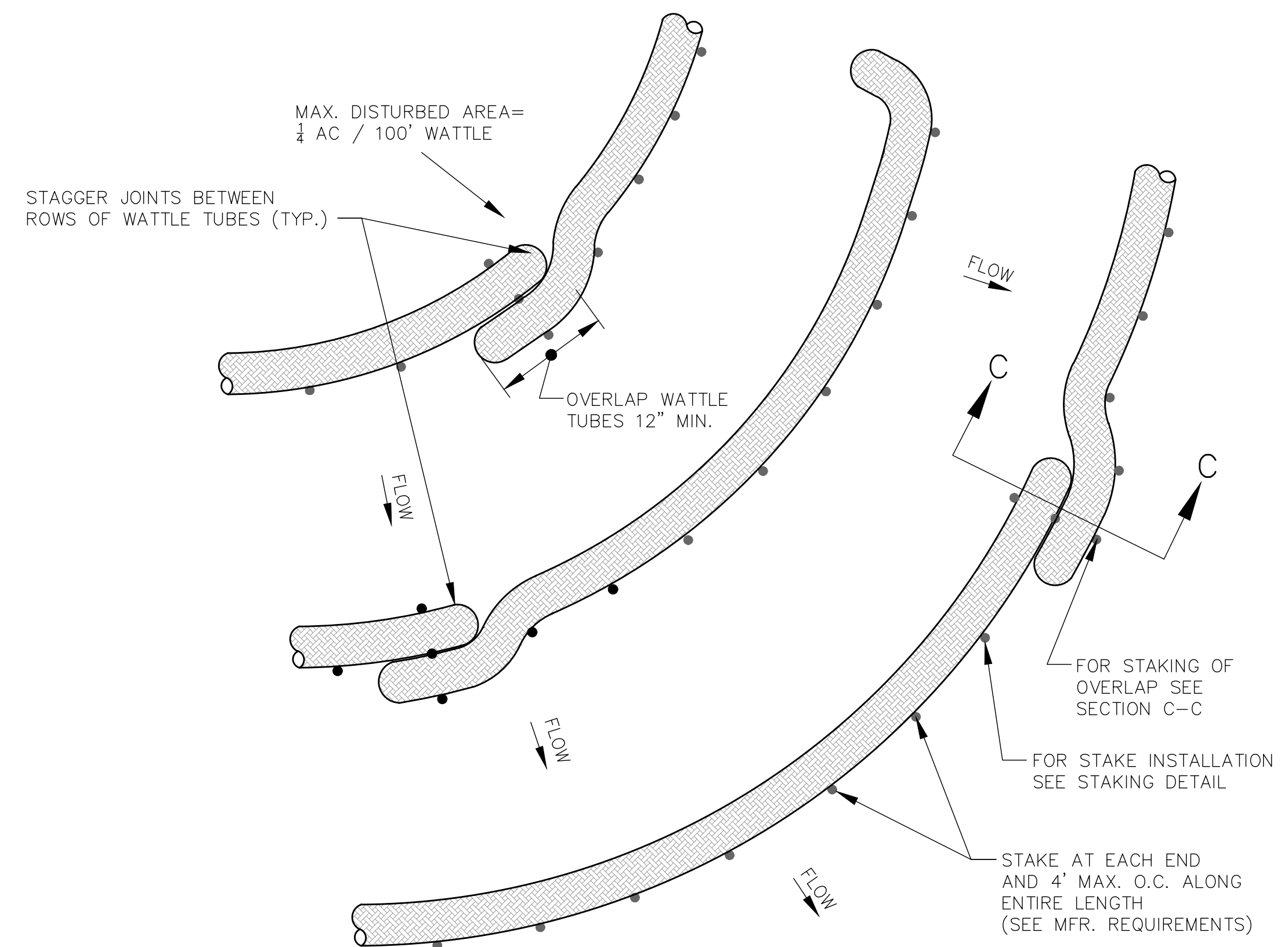


PROFILE VIEW

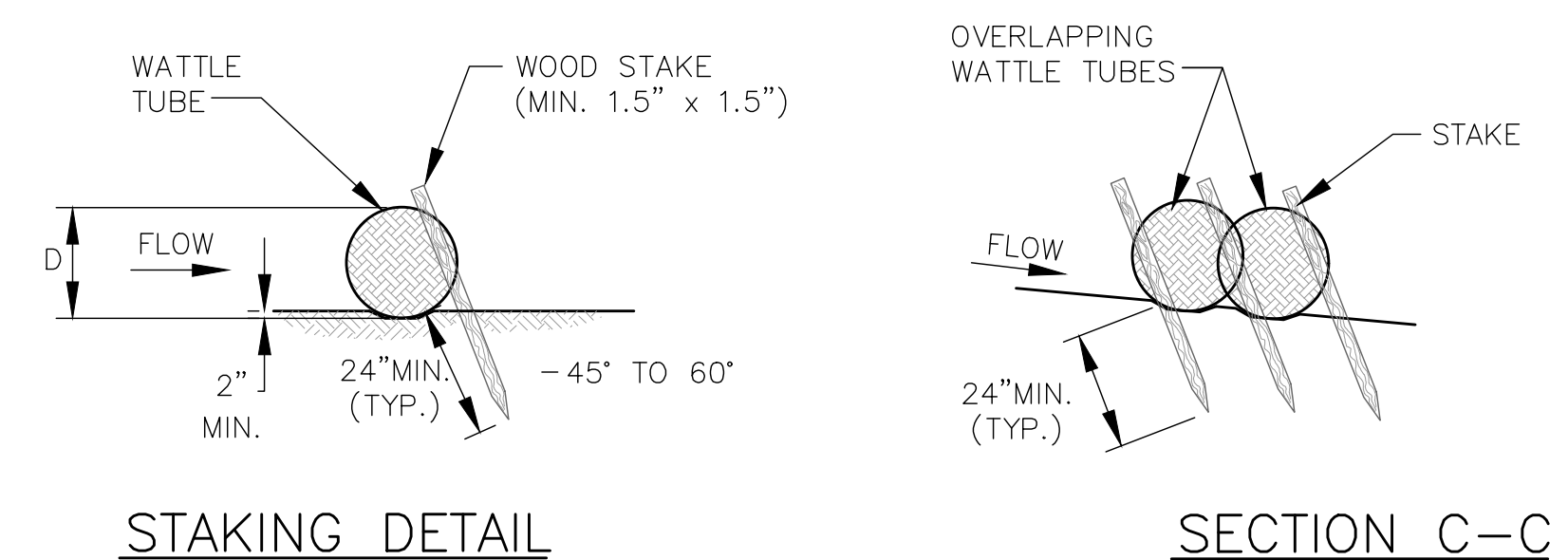
- EROSION CONTROL PLAN LEGEND: SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM
- EROSION CONTROL PLAN LEGEND: SEDIMENT TRAP WITH GABION CHECK DAM



SEDIMENT TRAP WITH CHECK DAM DETAIL
NTS

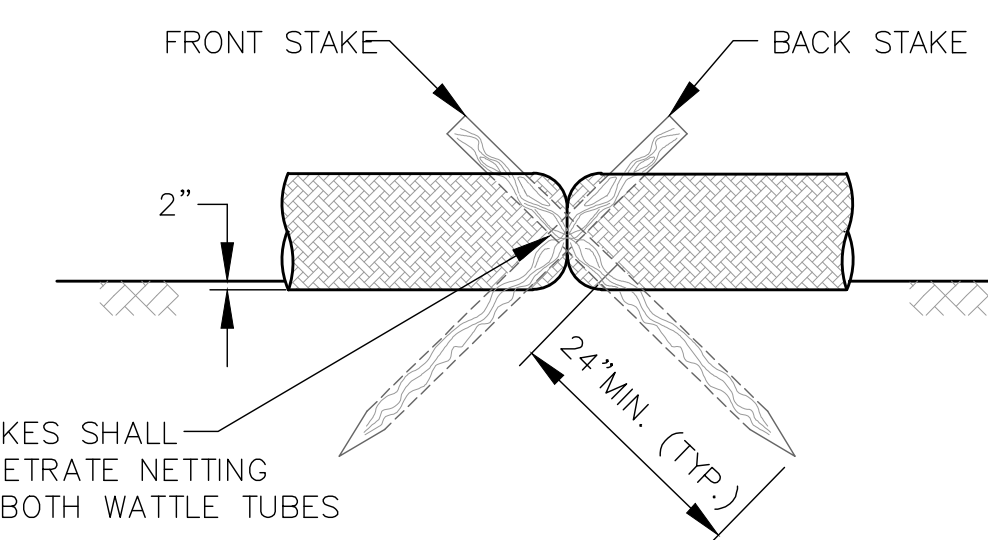


PLAN VIEW FOR SLOPE APPLICATION



STAKING DETAIL

SECTION C-C



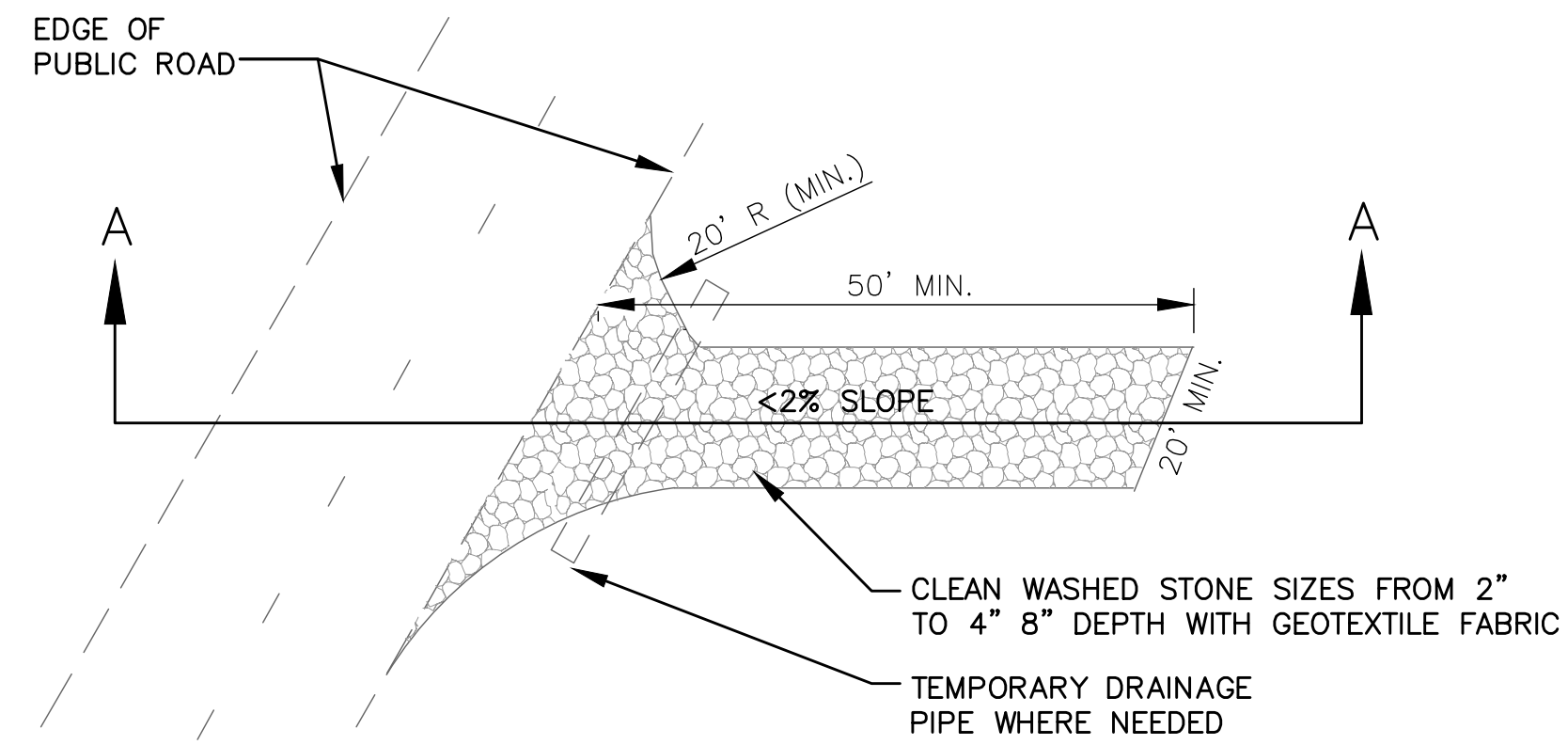
JOINT STAKING DETAIL

WATTLE TUBE DETAIL
NTS

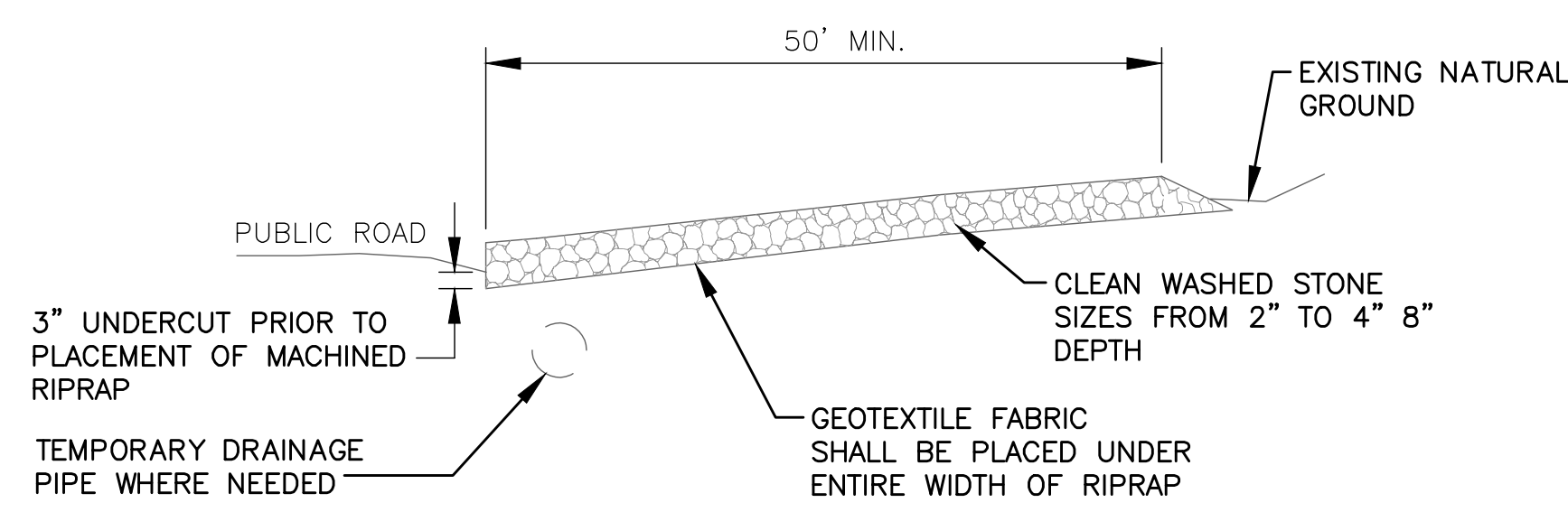


EROSION CONTROL PLAN LEGEND:

REVISIONS	
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DETAILS MSCAA SOUTH APPROACH SUPPORT FOR GLIDEPATH OBSTRUCTION CLEARING	
SHEET C-38	

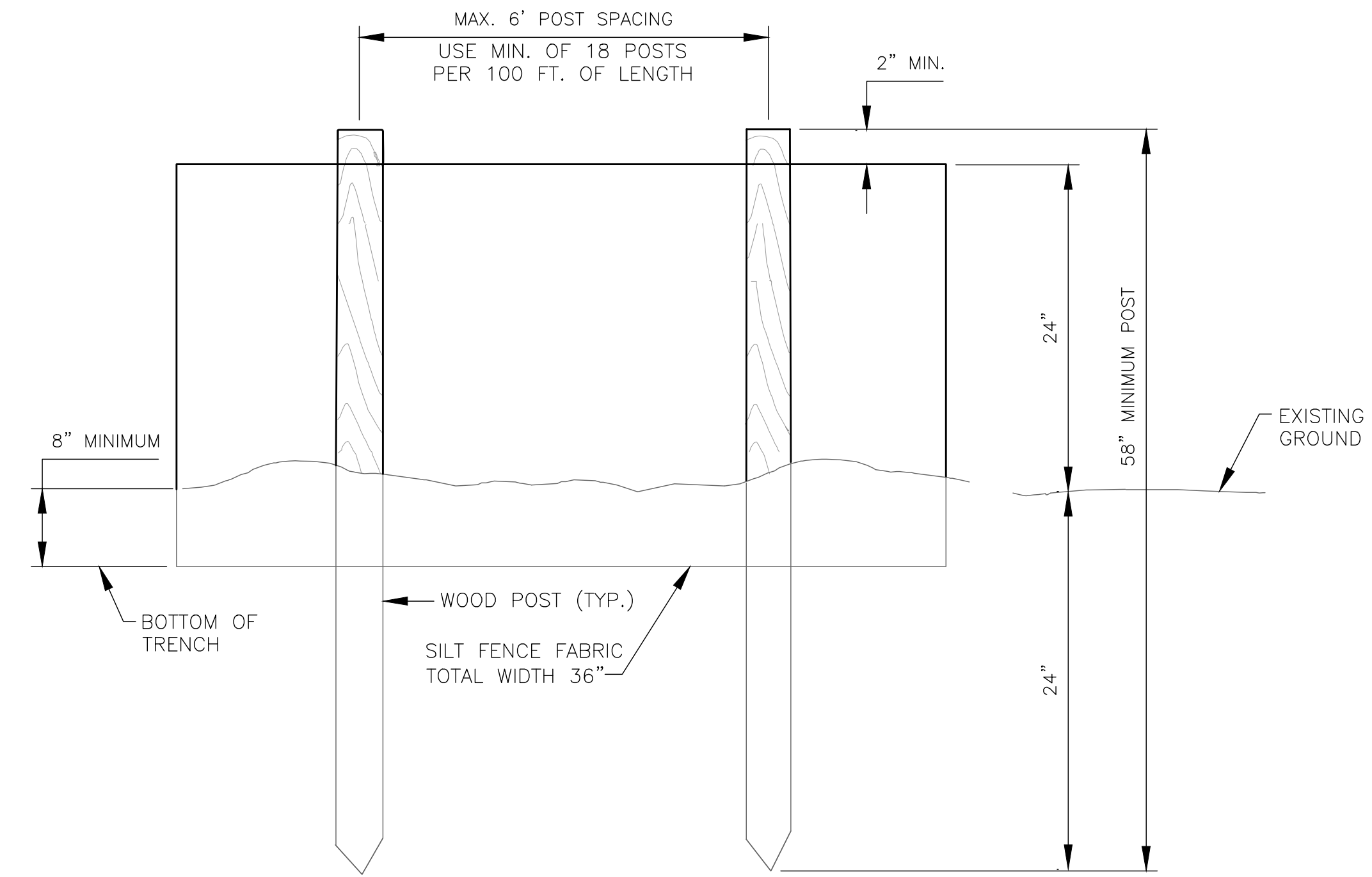


PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD

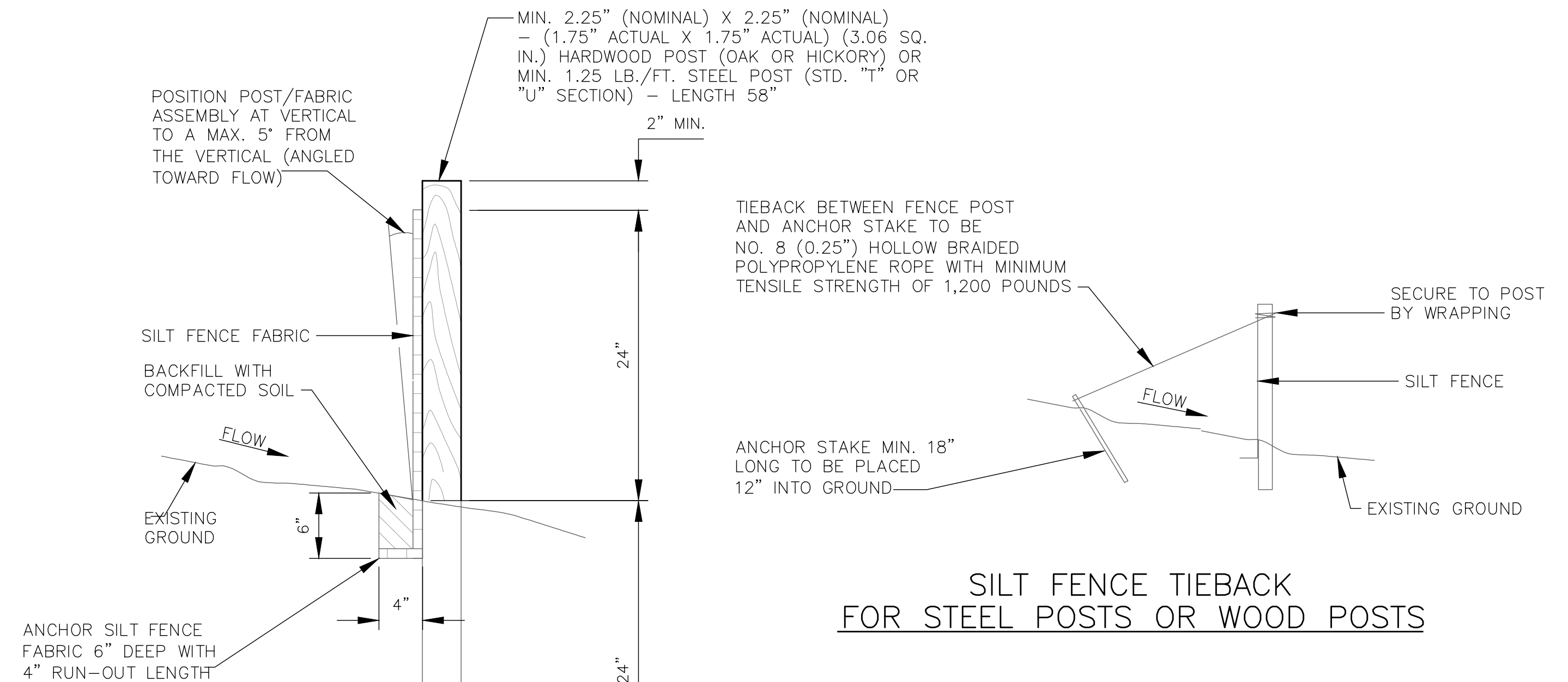


SECTION A-A

CONSTRUCTION ENTRANCE/EXIT DETAIL
NTS



ELEVATION VIEW



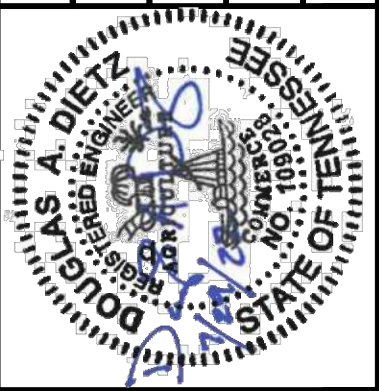
SECTIONAL VIEW

SILT FENCE DETAIL
NTS

SILT FENCE TIEBACK
FOR STEEL POSTS OR WOOD POSTS

(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS.
COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)

NO.	REVISIONS



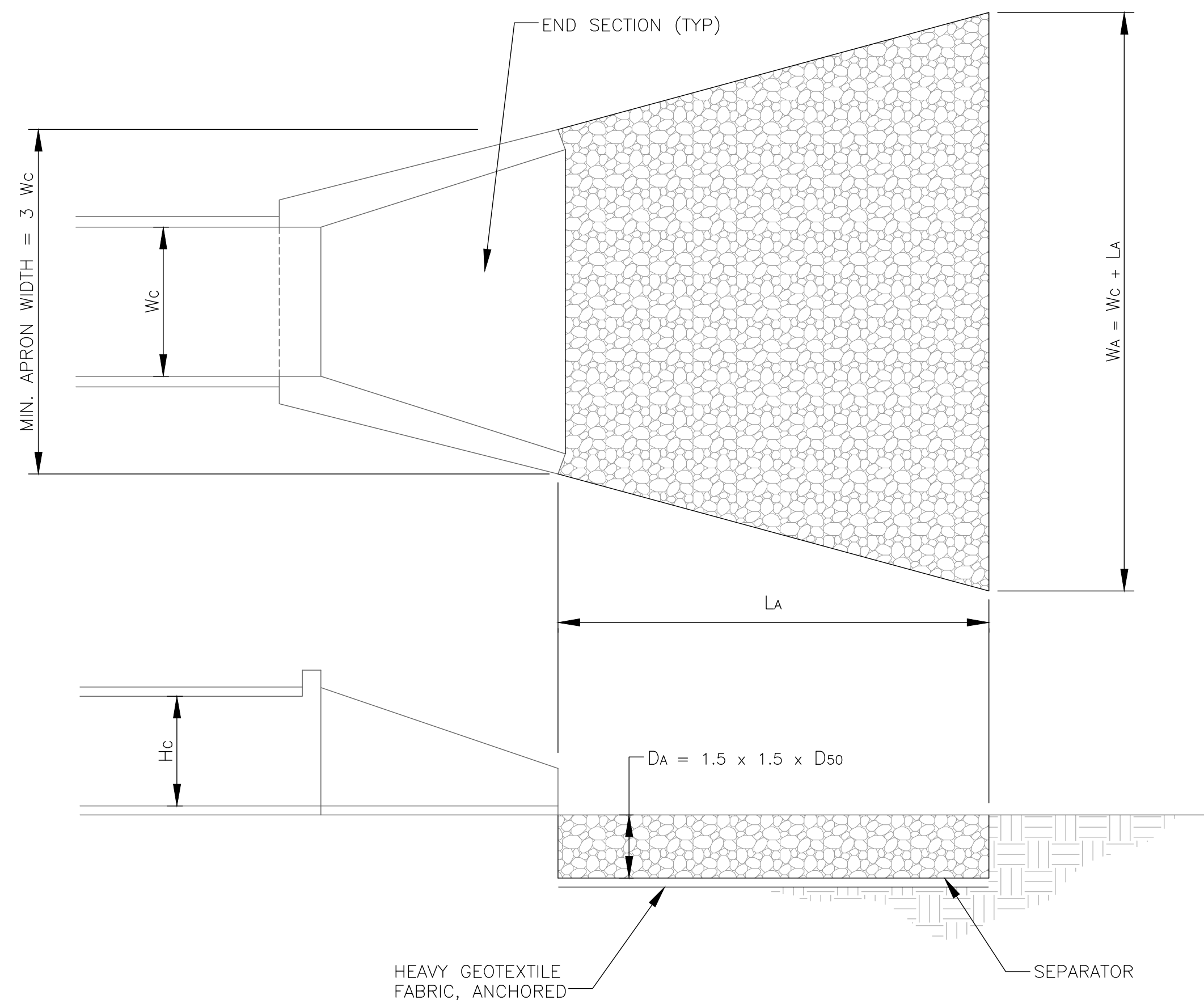
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PROJECT NO: 0888620034	

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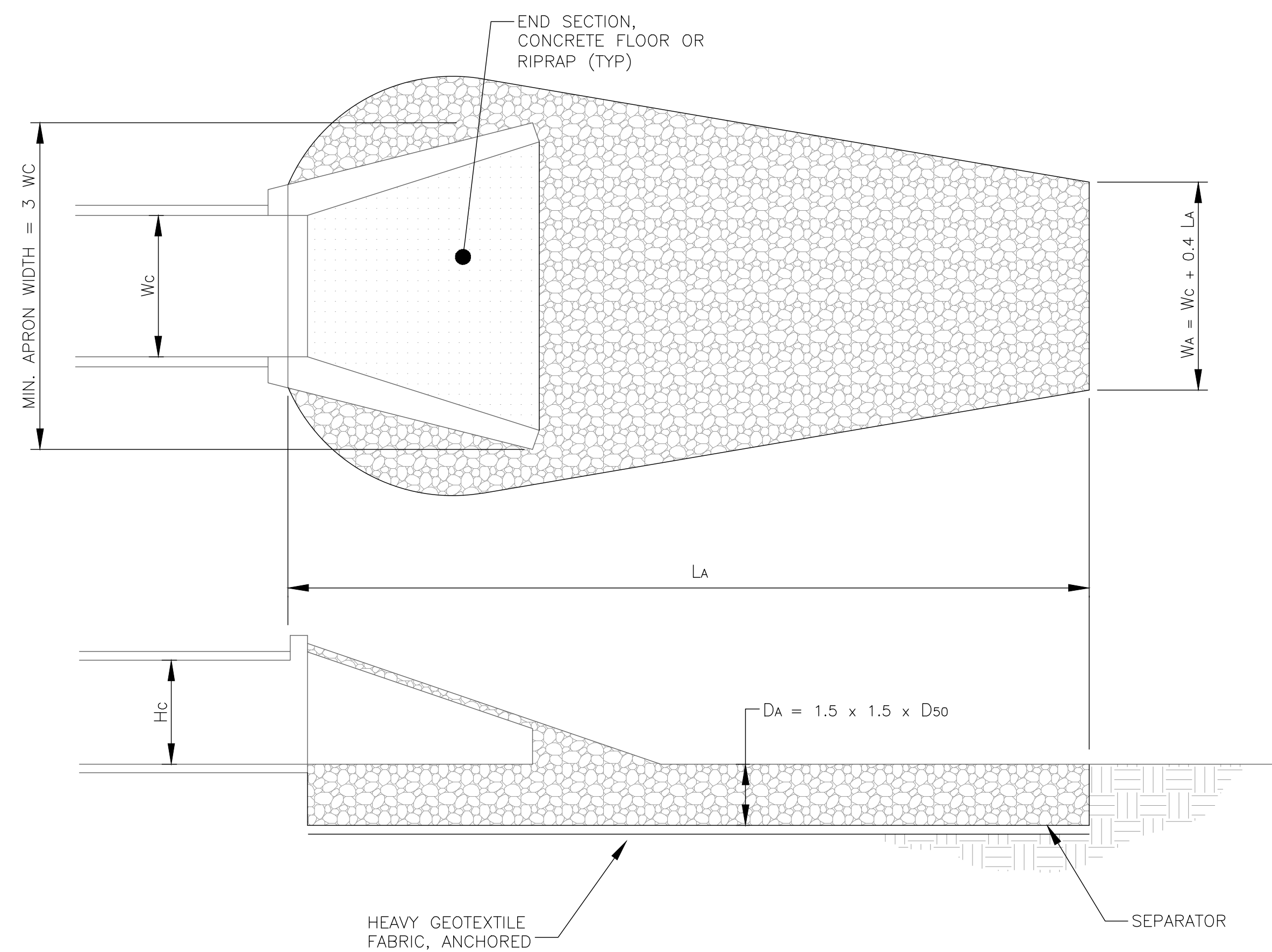
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DETAILS
MSCAA SOUTH APPROACH SUPPORT
FOR
GLIDE PATH OBSTRUCTION
CLEARING

SHEET
C-39



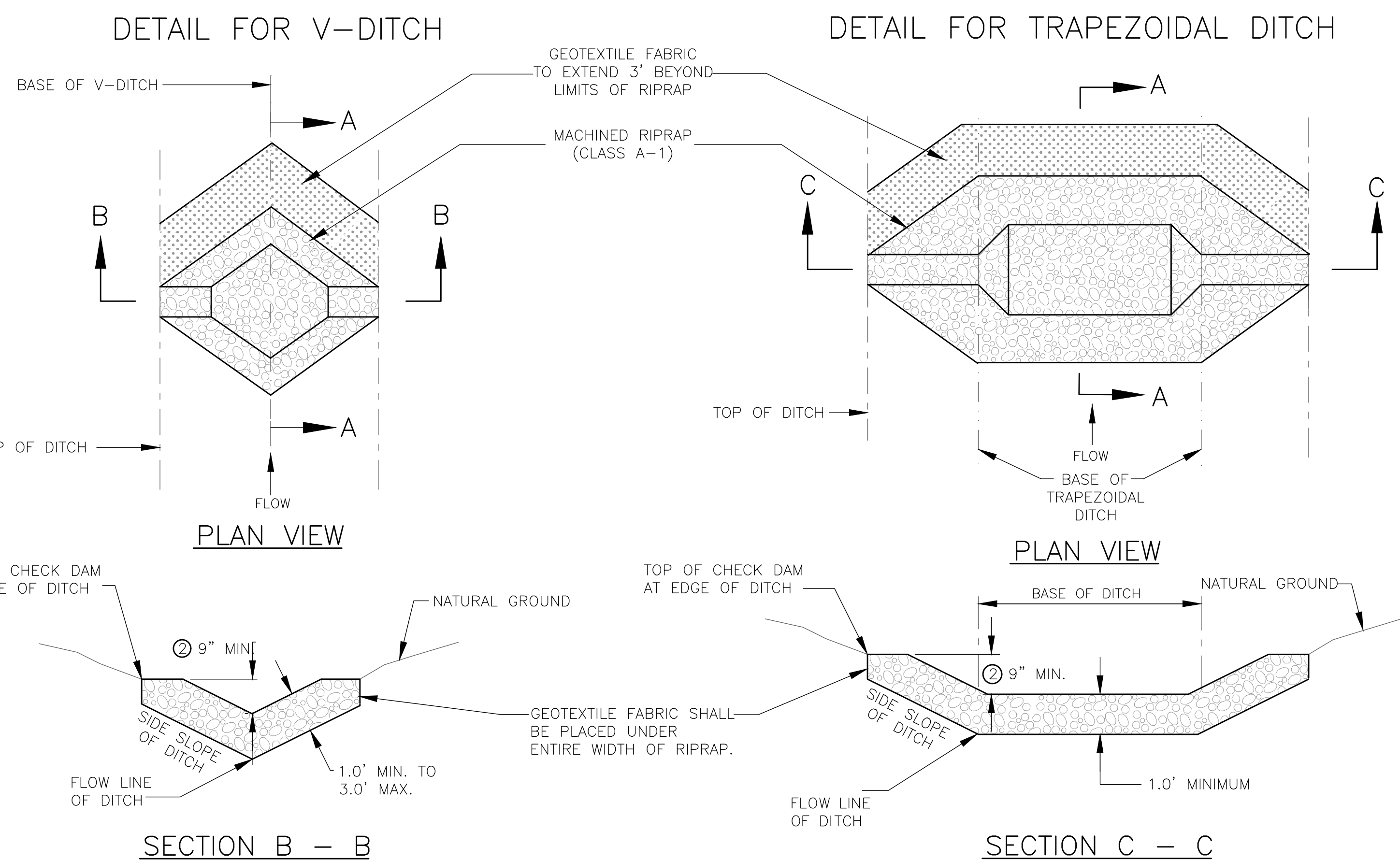
TAILWATER < 0.5 Hc AND ASSUMING FULL CULVERT FLOW (LOW TAILWATER CONDITIONS)



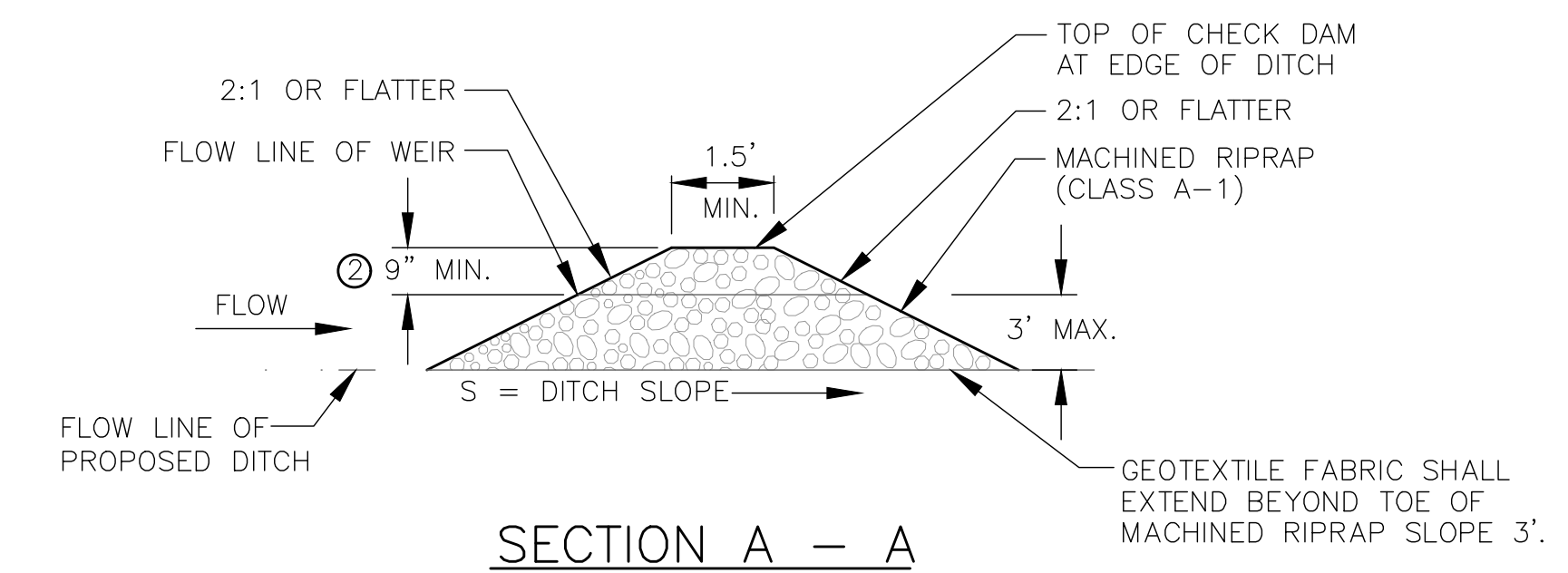
TAILWATER > 0.5 Hc AND ASSUMING FULL CULVERT FLOW (HIGH TAILWATER CONDITIONS)

- Hc = HEIGHT OF CULVERT
- Wc = WIDTH OF CULVERT
- LA = LENGTH OF RIP-RAP APRON
- WA = WIDTH OF RIP-RAP APRON AT END
- D50 = MEDIAN RIP-RAP SIZE
- Dmax = MAXIMUM SIZE OF RIP-RAP = 1.5 D50
- DA = DEPTH OF RIP-RAP APRON = 1.5 Dmax
- SEPARATOR = GEOTEXTILE UNDERLAYMENT OR GRAVEL FILTER BLANKET

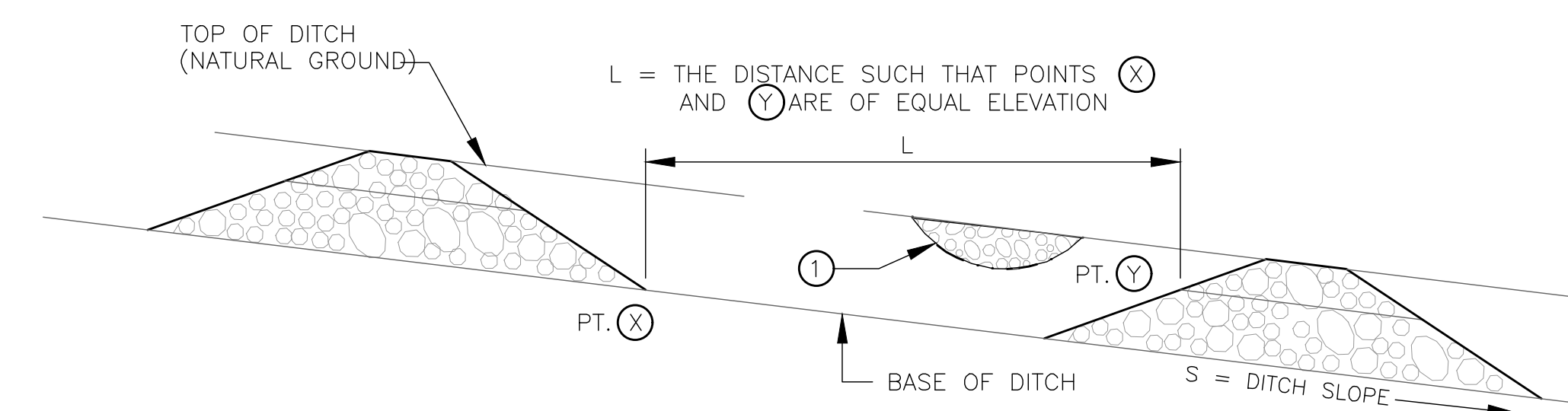
OUTLET PROTECTION DETAIL
NTS



CHECK DAM DETAIL
NTS

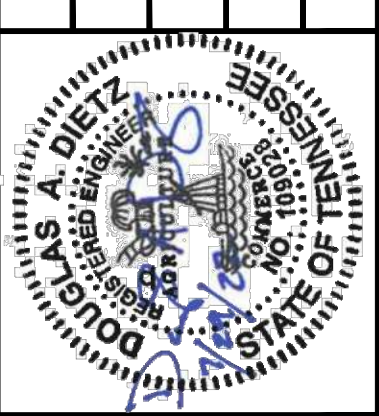


DETAIL FOR SPACING BETWEEN CHECK DAMS



- NOTES:
- 1 FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
 - 2 WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

NO.	DATE	REVISIONS



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