PLANS OF PROPOSED PROJECT

CITY OF FAIRHOPE
2023-PWI 001PT
FLYING CREEK NATURE PRESERVE – PEDESTRIAN TUNNEL

THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2022 EDITION.

FEBRUARY 2024

INDEX OF DRAWINGS

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C600–C602	CONSTRUCTION DETAILS
S005	STRUCTURAL GENERAL NOTES
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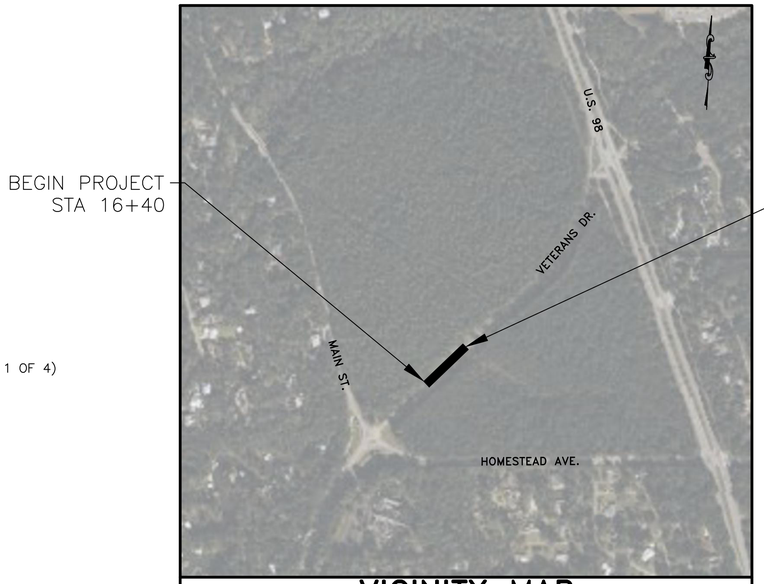
ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS REFERENCED (2022)

INDEX NO.	DWG NO.	TITLE
66501–66502	ESC–100	BEST MANAGEMENT PRACTICE REFERENCE MATRIX (2 SHEETS)
66505	ESC–200–1	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS (SHEET 1 OF 4)
66507	ESC–200–3	DETAIL OF SEDIMENT BARRIER APPLICATIONS
66508	ESC–200–4	DETAILS OF SILT FENCE INSTALLATION
66515	ESC–300–4	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK (SHEET 4 OF 8)
70301–70302	TCM–703	PAVEMENT LEGENDS AND MARKINGS
74007	TCD–100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES
74201–74203	PCMS–710	DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)



VICINITY MAP

NTS

ISSUE FOR BID

thompson
ENGINEERING

2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606

TEL: (251) 666-2443
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SUBMITTED BY:

ALABAMA LICENSED No. 52734 PROFESSIONAL ENGINEER NICK COMBS

2/23/2024

NICHOLAS T. COMBS, P.E. DATE

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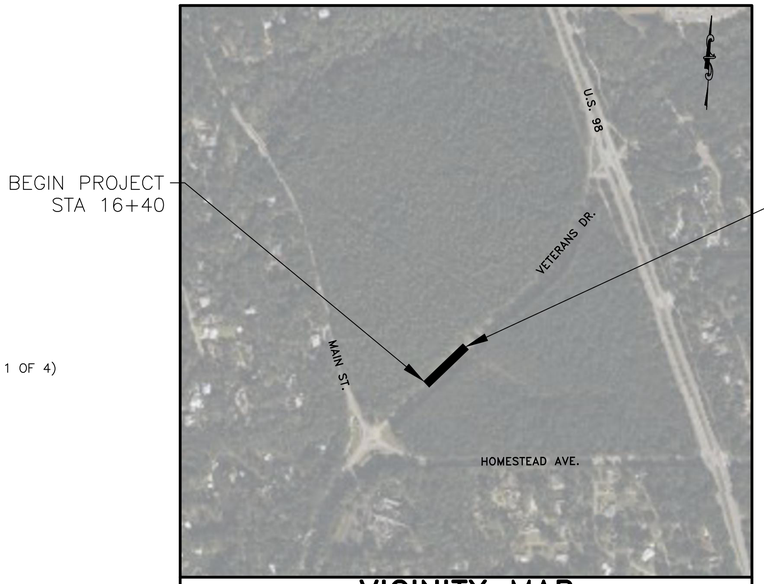

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LEGEND

C.I.P.F.	INDICATES CAPPED IRON PIN FOUND
C.I.P.S.	INDICATES CAPPED 5/8" IRON PIN SET
C.T.I.P.F.	INDICATES CRIMPED TOP IRON PIN FOUND
O.T.I.P.F.	INDICATES OPEN TOP IRON PIN FOUND
REBAR	INDICATES REBAR FOUND
C.M.F.	INDICATES CONCRETE MONUMENT FOUND
PP	INDICATES POWER POLE
GP	INDICATES GUY POLE
GUY	INDICATES GUY WIRE
OHE	INDICATES OVERHEAD ELECTRIC
UGE	INDICATES UNDERGROUND ELECTRIC
LP	INDICATES LIGHT POLE
MP	INDICATES METER POLE
PB	INDICATES POWER BOX
/—/—/—/—	INDICATES WOODEN FENCE
O—O—O—O—	INDICATES CHAIN LINK FENCE
X—X—X—X—	INDICATES WIRE FENCE
TP	INDICATES TELEPHONE PEDESTAL
T	INDICATES O/H TELEPHONE LINE
UGT	INDICATES UNDERGROUND TELEPHONE LINE
FOCM	INDICATES FIBER OPTIC MARKER
D	INDICATES STORM WATER MANHOLE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EASEMENT LINE (TBA)
	RIGHT OF WAY (EXISTING)
	LIMITS OF CONSTRUCTION
	RIGHT OF WAY (TBA)

GM	INDICATES GAS METER
GV	INDICATES GAS VALVE
G G	INDICATES GAS LINE
GLM	INDICATES GAS LINE MARKER
FH	INDICATES FIRE HYDRANT
WM	INDICATES WATER METER
WV	INDICATES WATER VALVE
W	INDICATES WATER LINE
S	INDICATES SANITARY SEWER MANHOLE
SS	INDICATES SANITARY SEWER LINE
C.O.	INDICATES CLEAN OUT
SV	INDICATES SEWER VALVE
CP	INDICATES CABLE PEDESTAL
BP	INDICATES BUMPER POST
N/F	NOW OR FORMERLY
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
MB	INDICATES MAIL BOX
	OAK TREE
	REQUIRED ASPHALT PAVEMENT
	REQUIRED REMOVING EXISTING ASPHALT PAVEMENT

GENERAL CONSTRUCTION NOTES:

1. STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2022 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
2. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
3. PRELIMINARY SOILS TESTING AND ON-SITE CONSTRUCTION MATERIALS TESTING IS TO BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER.
4. THE CONTRACTOR SHALL OBTAIN THE PERMISSION AND APPROVAL FROM THOMPSON ENGINEERING FOR ALL PROPOSED SUBCONTRACTORS AND SHALL BE RESPONSIBLE FOR ALL PHASES OF THE PROJECT INCLUDING THE SUBCONTRACTORS' WORK.
5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
6. ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2022 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2022 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT SOLID SOD WILL BE REQUIRED.
7. CONCRETE USED ON THE CULVERT WILL BE TYPE B . ALL OTHER AREAS IN THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.
8. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (811) (WWW.AL811.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES INSIDE OR OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.
9. THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.
10. SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.
12. ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 6".
13. ALL EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.
14. ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.
15. ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.
16. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
17. CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2018 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
18. ALL MATERIALS AND WORKMANSHIP WITHIN A STATE, CITY, OR COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2022 EDITION.
19. CONTRACTOR SHALL COORDINATE SITE ACCESS WITH PROPERTY OWNER(S).
20. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE TESTING LABORATORY OF HIS WORKING SCHEDULE IN ORDER THAT THE PROPER SAMPLE MAY BE OBTAINED AND TEST MADE.

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ALABAMA LICENSED No. 52734 PROFESSIONAL 02/23/2024 ENGINEER NICK COMBS

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FAIRHOPE, ALABAMA

thompson ENGINEERING
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MOBILE, ALABAMA 36606
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FLYING CREEK NATURE PRESERVE

PLAN LEGEND & GENERAL NOTES

SCALE:	PLOT SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	DRAWING NO.	REVISION NO. :
N.T.S.	1:1	NTC	CCG	NTC	FEBRUARY 2024	22-1101-0229	G101	0

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PLAN QUANTITY
201A002	Clearing and Grubbing (Maximum Allowable Bid $5,000)	Lump Sum	1
206C002	Removing Concrete Slope Paving	Square Yard	35
210A000	Unclassified Excavation	Cubic Yard	2300
210D000	Borrow Excavation	Cubic Yard	550
214A000	Structure Excavation	Cubic Yard	500
214B001	Foundation Backfill, Commercial	Cubic Yard	50
301A012	Crushed Aggregate Base Course, Type B, Plant Mixed, 6" Compacted Thickness	Square Yard	135
401A000	Bituminous Treatment A	Square Yard	135
405A000	Tack Coat	Gallon	20
408B000	Micro-Milling Existing Pavement (Approximately 0.00" Thru 1.00" Thick)	Square Yard	115
424A360	Superpave Bituminous Concrete Wearing Surface Layer, 1" Maximum Aggregate Size Mix, ESAL Range C/D (220 LB/SQYD)	Ton	15
424B651	Superpave Bituminous Concrete Upper Binder Layer, 1" Maximum Aggregate Size Mix, ESAL Range C/D (330 LB/SQYD)	Ton	10
430B003	Aggregate Surfacing (ALDOT #57)	Ton	25
502A000	Steel Reinforcement	Pound	23000
524A011	Culvert Concrete (Cast In Place)	Cubic Yard	150
529A010	Retaining Wall	Lump Sum	1
567A000	Boardwalk (Including All Timber, Hardware, Anchors And Paint)	Linear Foot	40
600A000	Mobilization	Lump Sum	1
608A000	Separation Geotextile	Square Yard	170
640A006	Underground Utility Adjustment (Sewerage)	Linear Foot	100
650A000	Topsoil	Cubic Yard	300
652A100	Seeding (Roundstone Seed Mix #179)	Acre	1
654A000	Solid Sodding	Square Yard	100
665O000	Temporary Erosion Control	Lump Sum	1
680A001	Geometric Controls	Lump Sum	1
701G009	Solid White, Class 1, Type A Traffic Stripe	Linear Foot	100
701G027	Solid Yellow, Class 1, Type A Traffic Stripe	Linear Foot	100
740A000	Traffic Control Scheme	Lump Sum	1

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FLYING CREEK NATURE PRESERVE

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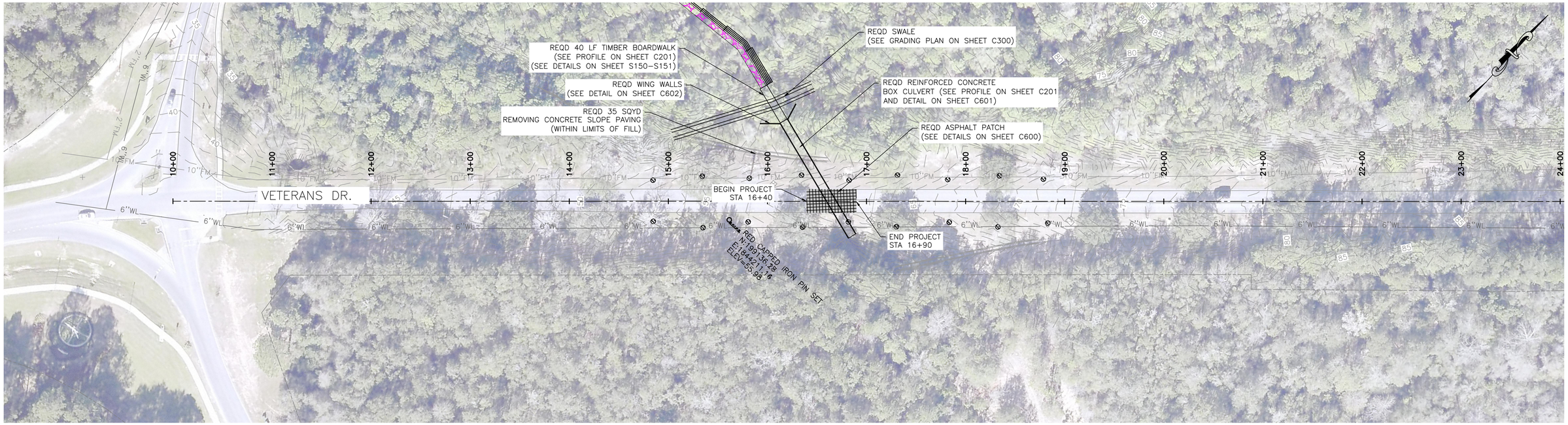
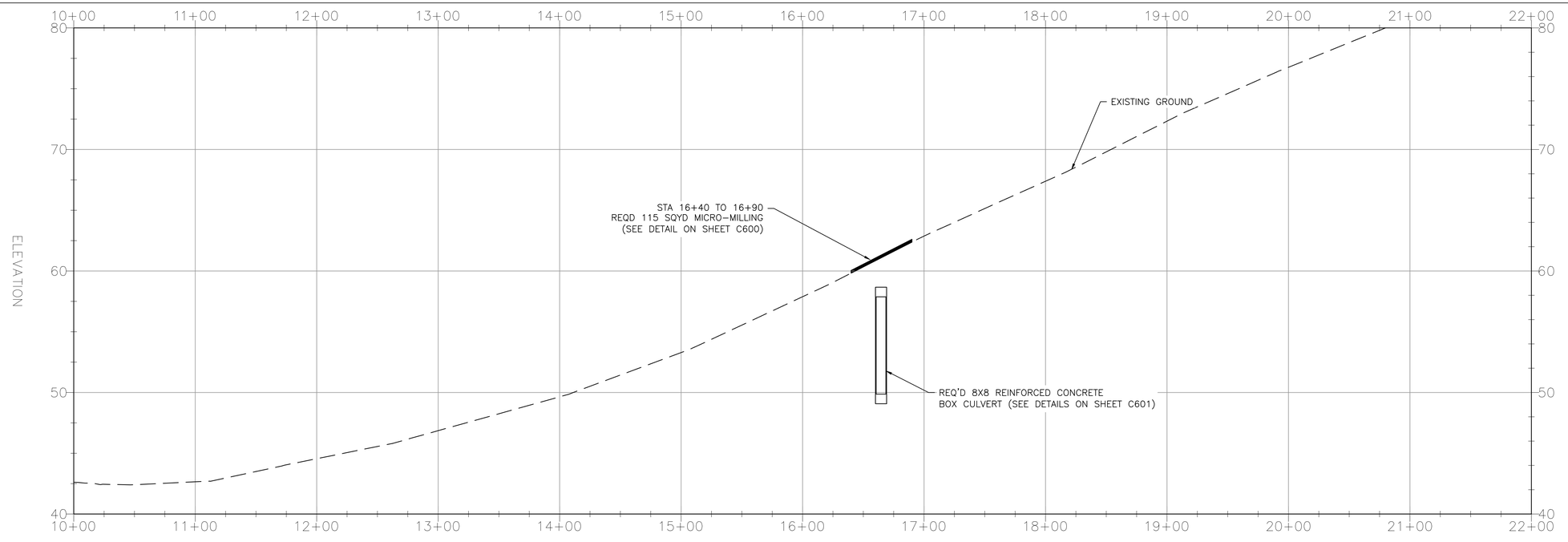
FEBRUARY 2024	22-1101-0229	G102	0





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PLAN & PROFILE

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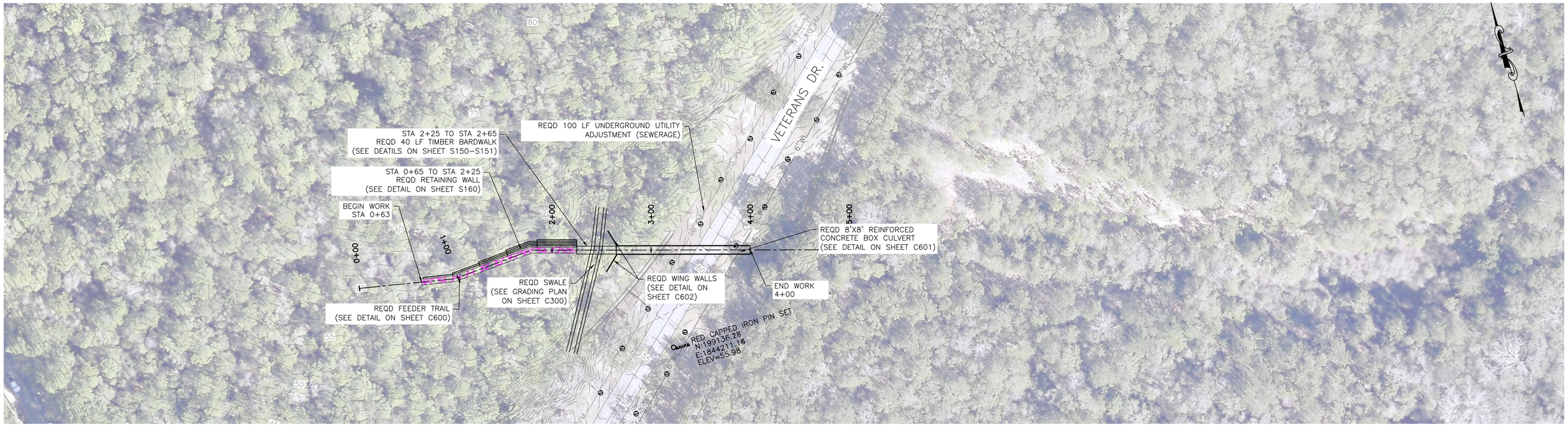

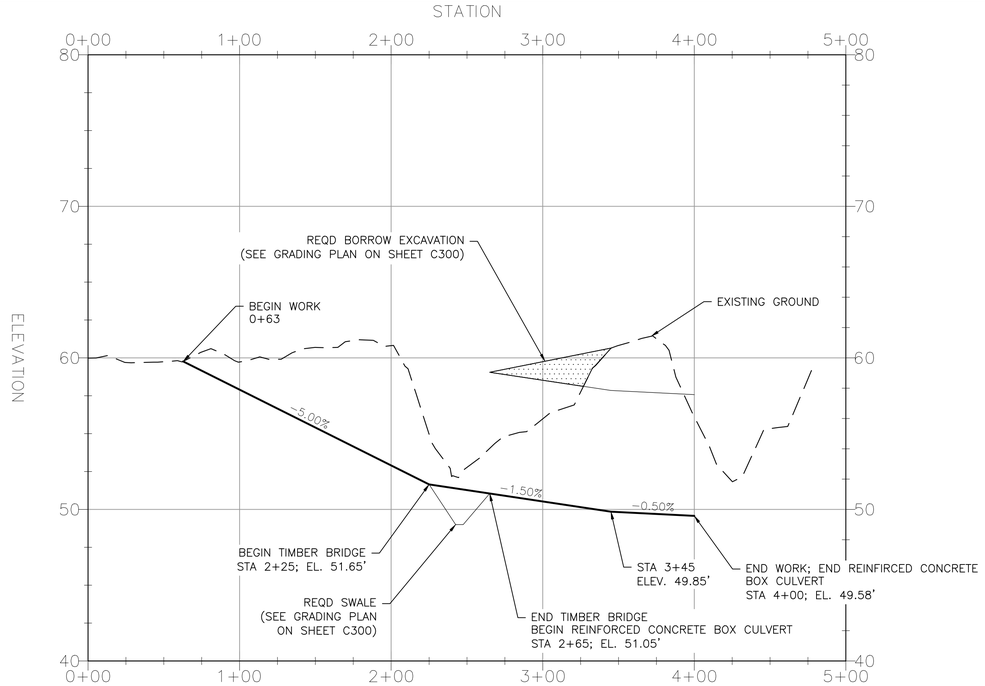

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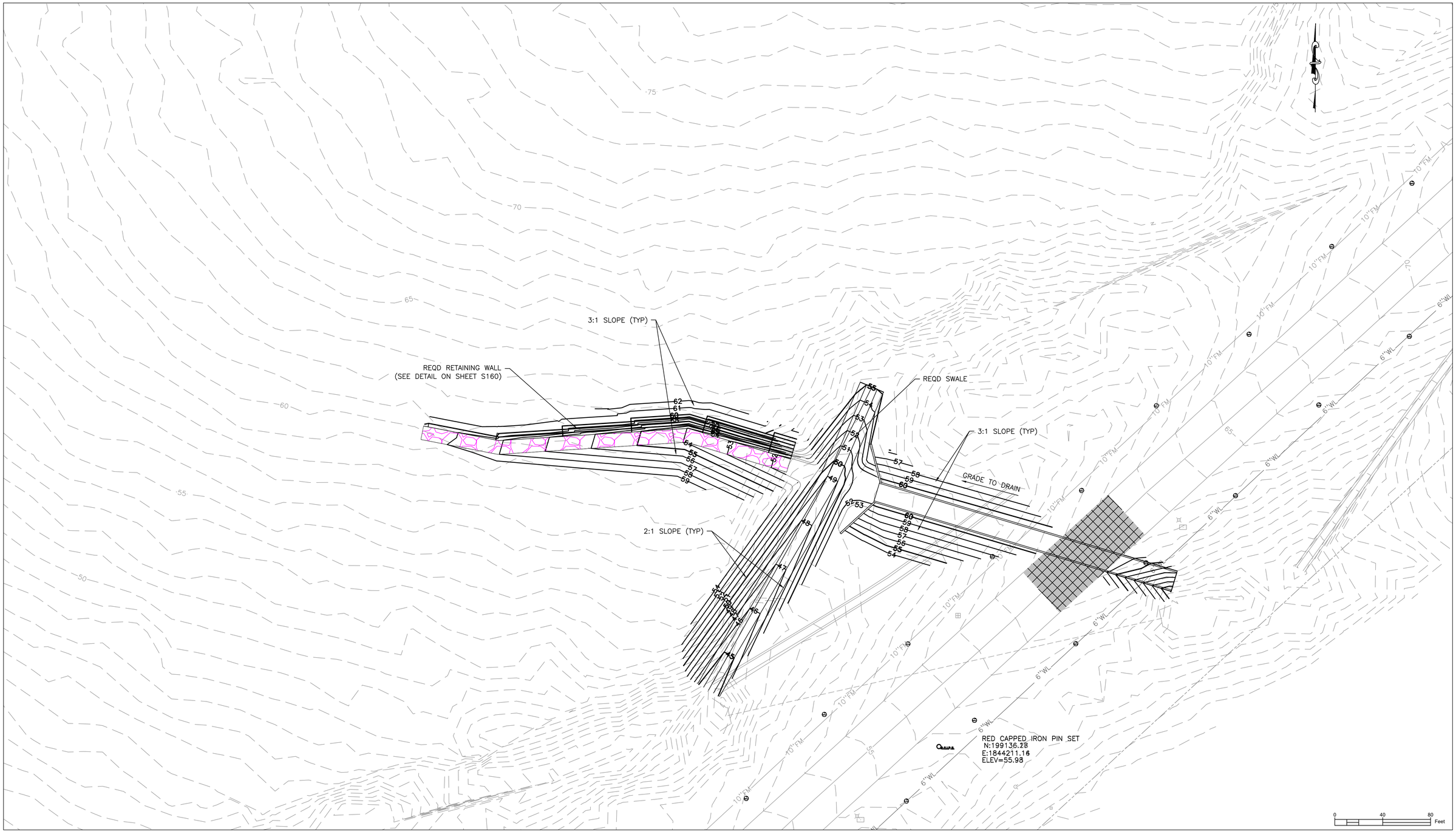

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FLYING CREEK NATURE PRESERVE

GRADING PLAN

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	1:1	NTC	CCG	NTC	FEBRUARY 2024	22-1101-0229	C300	0

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PART VI OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND SHALL DEFEND THE ENGINEER AND THE CITY OF FAIRHOPE AGAINST ALL LIABILITY, CLAIM OF LIABILITY, LOSS, COST OR DAMAGE, INCLUDING DEATH, AND LOSS OF SERVICES, ON ACCOUNT OF INJURY TO PERSONS OR PROPERTY, OCCURRING FROM ANY CAUSE WHATSOEVER, AS A RESULT OF CONSTRUCTION ACTIVITY INVOLVED IN THIS PROJECT. THE CONTRACTOR WILL, AT HIS EXPENSE, DEFEND ON BEHALF OF THE ENGINEER, CITY OF FAIRHOPE AND THEIR OFFICERS AND EMPLOYEES, ALL SUITS BROUGHT AGAINST THEM OR ANY OF THEM, ARISING FROM ANY SUCH CAUSE.
2. THE CONTRACTOR SHALL HAVE AVAILABLE ADEQUATE PERSONNEL AND EQUIPMENT FOR TRAFFIC CONTROL AND SHALL NOT PERFORM ANY WORK WITHIN THE CITY RIGHT OF WAY WHEN ADEQUATE PERSONNEL AND EQUIPMENT ARE NOT AVAILABLE.
3. TRAFFIC CONTROL DEVICES SHOWN ARE CONSIDERED TO BE THE MINIMUM REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES OTHER THAN THOSE SHOWN WHEN ROADWAY AND TRAFFIC CONDITIONS WARRANT.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE WORK WHEN THE WORK AREA IS OPENED TO TRAFFIC.
5. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED.
6. A REFLECTORIZED DRUM SHALL BE PLACED IN FRONT OF EACH CONSTRUCTION SIGN THAT IS STORED ON THE SHOULDER AT ANY TIME DURING THE COURSE OF THE PROJECT, INCLUDING BUT NOT LIMITED TO COVERED SIGNS AND TEMPORARY MOUNTED SIGNS THAT HAVE BEEN LAID OVER. THE COST OF THIS REQUIREMENT SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B-000 (CONSTRUCTION SIGNS) WHEN A PAY ITEM FOR CHANNELIZING DRUM IS NOT PROVIDED IN THE PLANS.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS EXCEPT FOR THOSE SIGNS THAT ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, IN THE SAME LOCATION, WHEN ALL DEVICES ARE REMOVED AT NIGHT, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS.
8. ANY OBSTACLES OR HAZARDS WITHIN THE WORK AREA SHALL BE MARKED IN ACCORDANCE WITH MUTCD, PART VI (LATEST EDITION).
9. THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHALL BE 40' (MAXIMUM).
10. WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
11. DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
12. HIGH LEVEL WARNING DEVICES SHOULD BE USED TO SUPPORT ANY SIGNS SHOWN WHEN TRAFFIC CONDITIONS WARRANT.
13. TYPE B HIGH INTENSITY WARNING LIGHTS SHOULD BE PLACED ON ADVANCE WARNING SIGNS.
14. ALL CONSTRUCTION SIGNS SHALL MEET ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2022 EDITION.
15. THE CONTRACTOR IS REQUIRED TO MAINTAIN ONE LANE OF TRAFFIC AND TEMPORARY ACCESS TO RESIDENCES AT ALL TIMES.

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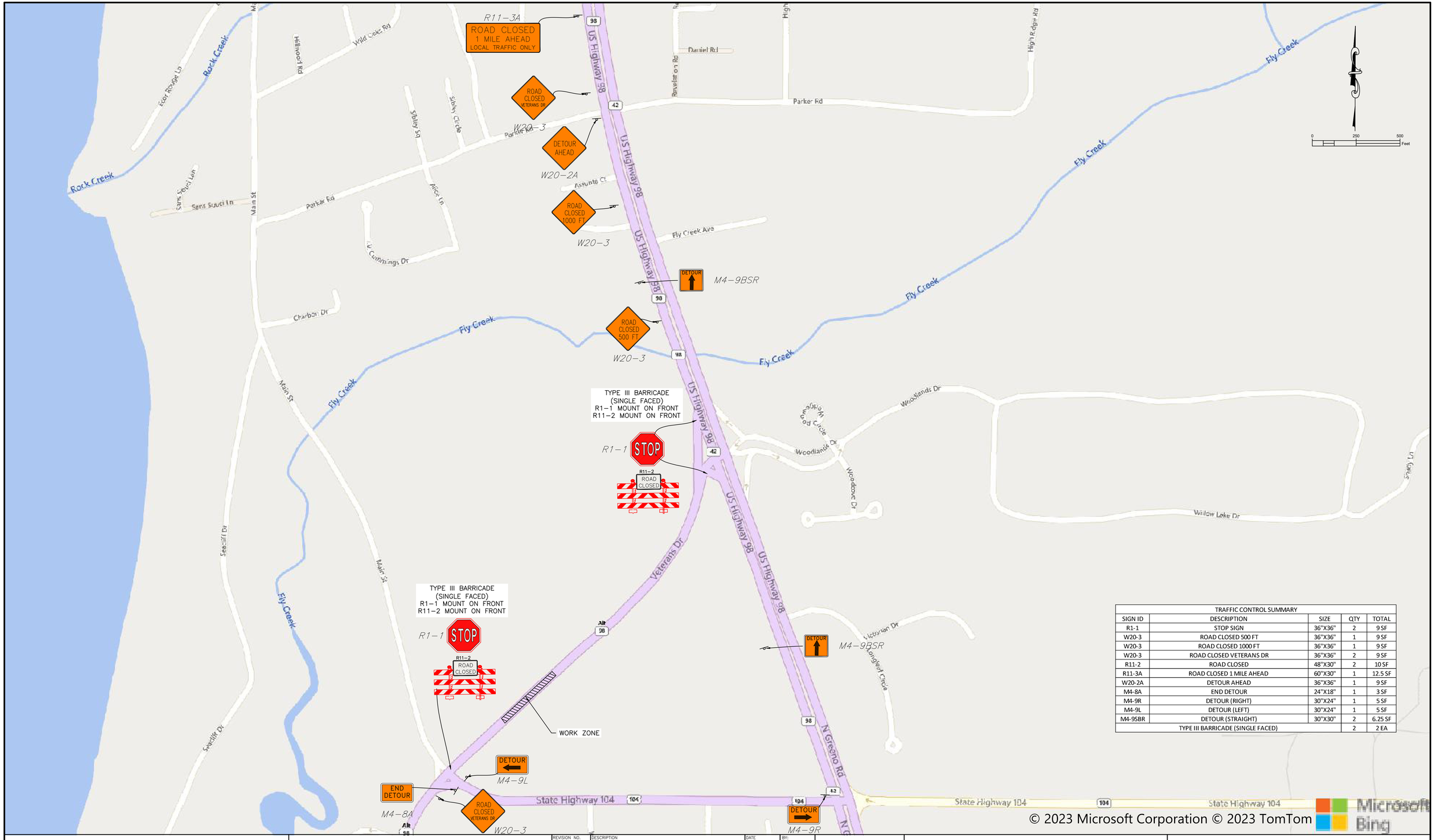
CITY OF FAIRHOPE
FAIRHOPE, ALABAMA

FLYING CREEK NATURE PRESERVE

thompson ENGINEERING
2970 COTTAGE HILL RD, STE. 190
MOBILE, ALABAMA 36606
TEL: (251) 666-2443
FAX: (251) 666-6422

TRAFFIC CONTROL AND DETOUR NOTES

SCALE:	PLOT SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	DRAWING NO.	REVISION NO. :
	1:1	NTC	CCG	NTC	FEBRUARY 2024	22-1101-0229	C400	0



TRAFFIC CONTROL SUMMARY				
SIGN ID	DESCRIPTION	SIZE	QTY	TOTAL
R1-1	STOP SIGN	36"X36"	2	9 SF
W20-3	ROAD CLOSED 500 FT	36"X36"	1	9 SF
W20-3	ROAD CLOSED 1000 FT	36"X36"	1	9 SF
W20-3	ROAD CLOSED VETERANS DR	36"X36"	2	9 SF
R11-2	ROAD CLOSED	48"X30"	2	10 SF
R11-3A	ROAD CLOSED 1 MILE AHEAD	60"X30"	1	12.5 SF
W20-2A	DETOUR AHEAD	36"X36"	1	9 SF
M4-8A	END DETOUR	24"X18"	1	3 SF
M4-9R	DETOUR (RIGHT)	30"X24"	1	5 SF
M4-9L	DETOUR (LEFT)	30"X24"	1	5 SF
M4-9SBR	DETOUR (STRAIGHT)	30"X30"	2	6.25 SF
TYPE III BARRICADE (SINGLE FACED)			2	2 EA

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Microsoft Bing

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0	ISSUE FOR BID	2/23/24	NTC

ALABAMA LICENSED
No. 52734
PROFESSIONAL
02/23/2024
ENGINEER
NICK COMBS

CITY OF FAIRHOPE
FAIRHOPE, ALABAMA

FLYING CREEK NATURE PRESERVE

TRAFFIC CONTROL AND DETOUR PLAN

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EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.

2. TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.

3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.

4. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.

5. AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, EROSION CONTROL DEVICES SHALL BE REMOVED.

6. CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 7 DAYS OR LONGER.

7. THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.

8. SOLID SOD SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.

9. THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.

10. SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:

    A. ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.
    B. EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
    C. EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
    D. AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
    E. SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.

11. UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOI) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOI PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.

12. THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.

13. ALL CLEARING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO LIMIT EROSION OF MATERIALS FROM THE CONSTRUCTION AREA.

14. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL INSTALL NECESSARY RETENTION BERMS, HAY BALES, OR SILT FENCE TO PREVENT EROSION OF MATERIALS PRIOR TO THE NEXT SCHEDULED WORK OR PERIOD.

15. REGULAR MAINTENANCE OF EROSION CONTROL AND SILTATION FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

16. THE ENGINEER SHALL HAVE THE RIGHT TO REQUIRE INSTALLATION OF ADDITIONAL FACILITIES IF DEEMED NECESSARY TO PROTECT ADJACENT AREAS.

17. EROSION CONTROL AND SILTATION FACILITIES SHALL BE REMOVED ON AN INDIVIDUAL BASIS ONLY AFTER SPECIFIC AREAS HAVE STABILIZED.

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ALABAMA LICENSED No. 52734 PROFESSIONAL 02/23/2024 ENGINEER NICK COMBS

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EROSION CONTROL NOTES

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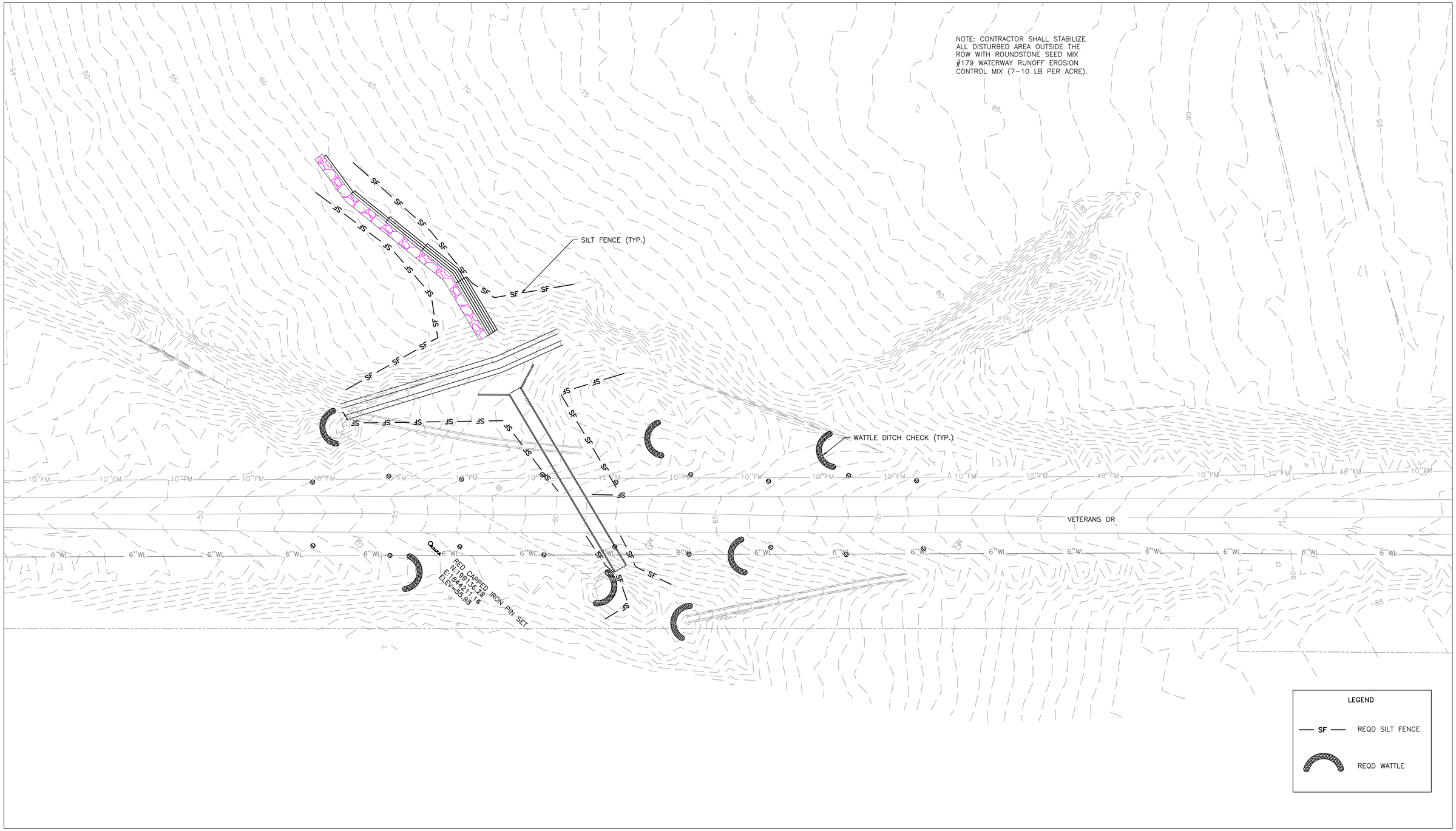

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0 60 120 Feet

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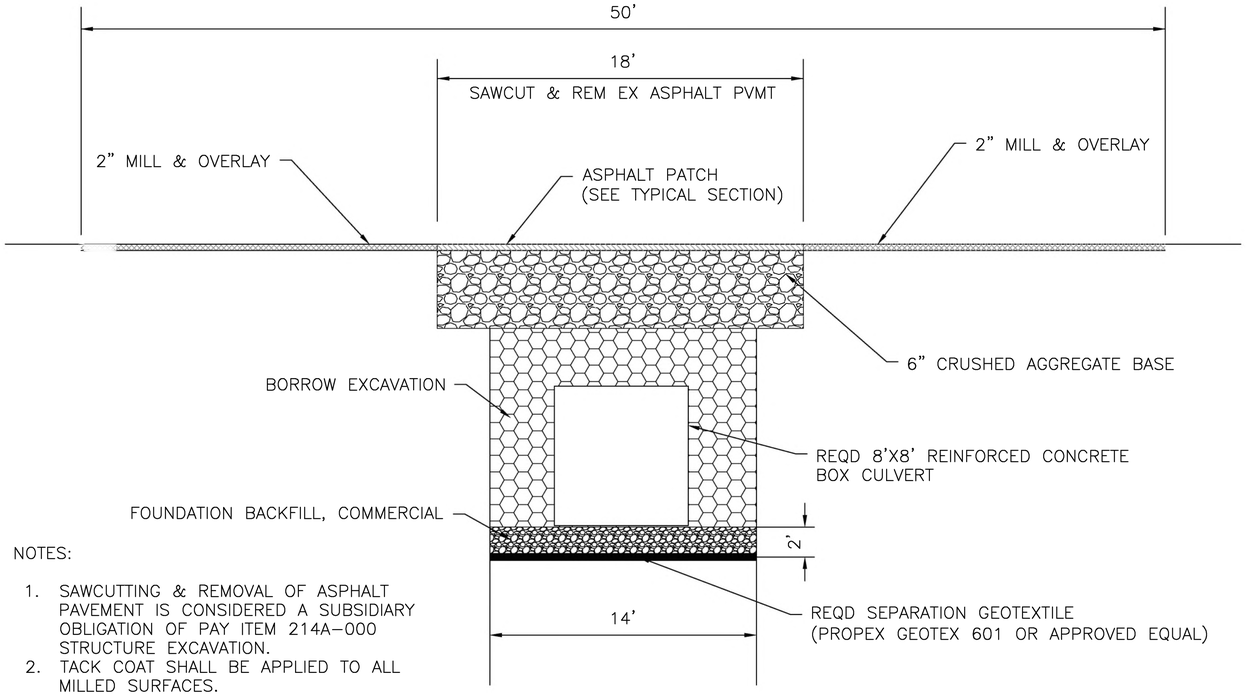
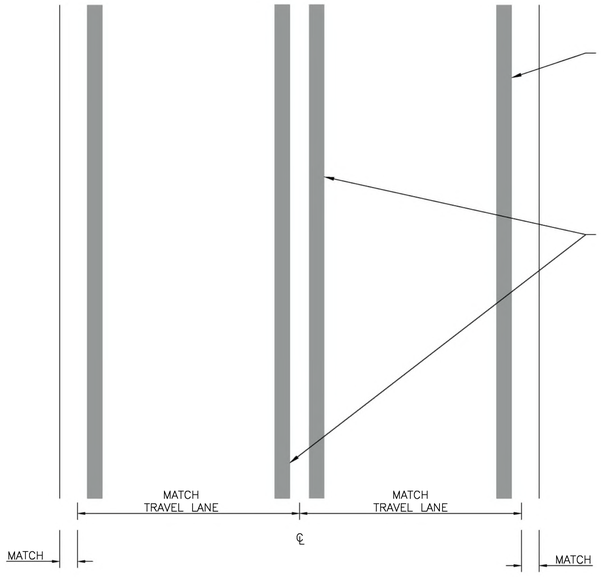


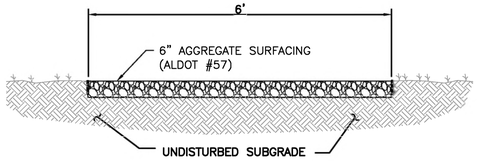
NOTES:

1. SAWCUTTING & REMOVAL OF ASPHALT PAVEMENT IS CONSIDERED A SUBSIDIARY OBLIGATION OF PAY ITEM 214A-000 STRUCTURE EXCAVATION.
2. TACK COAT SHALL BE APPLIED TO ALL MILLED SURFACES.

TYPICAL 8'X8' REINFORCED CONCRETE BOX CULVERT TRENCH AND ASPHALT PATCHING DETAIL
N.T.S.



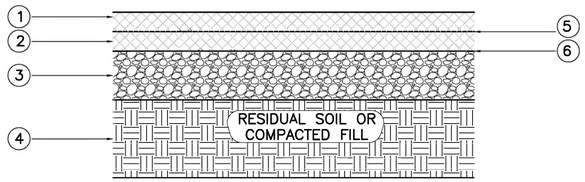
TWO LANE STRIPING AND MARKING DETAIL
N.T.S.



NOTES:

1. A 2% CROSS SLOPE IN ALL DIRECTIONS IS ACCEPTABLE THROUGHOUT ENTIRE ADA PATH.
2. GRADES ARE NOT TO EXCEED MAX 5% LONGITUDINAL SLOPE.

FEEDER TRAIL DETAIL
N.T.S.



1. SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, 2" THICK (220#/SY)
2. SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, 3" THICK (330#/SY)
3. CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED 6" COMPACTED THICKNESS, MINIMUM 95% COMPACTION
4. SUBGRADE, TOP 12" COMPACTED TO 98% STANDARD PROCTOR (ASTM D-1557)
5. TACK COAT
6. BITUMINOUS TREATMENT

ASPHALT PATCH TYPICAL SECTION
N.T.S.

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REVISION NO. 0	DESCRIPTION ISSUE FOR BID	DATE 2/23/24	BY: NTC

ALABAMA LICENSED No. 62734 PROFESSIONAL 02/23/2024 ENGINEER NICK COMBS

CITY OF FAIRHOPE
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FLYING CREEK NATURE PRESERVE

CONSTRUCTION DETAILS

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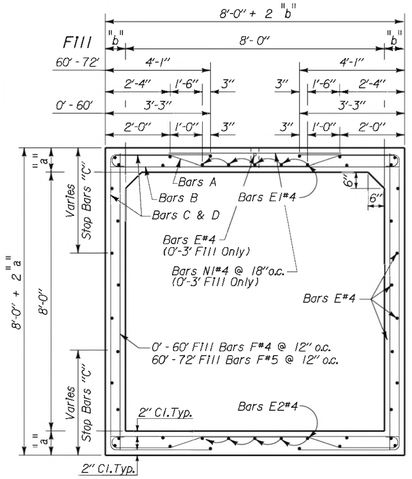
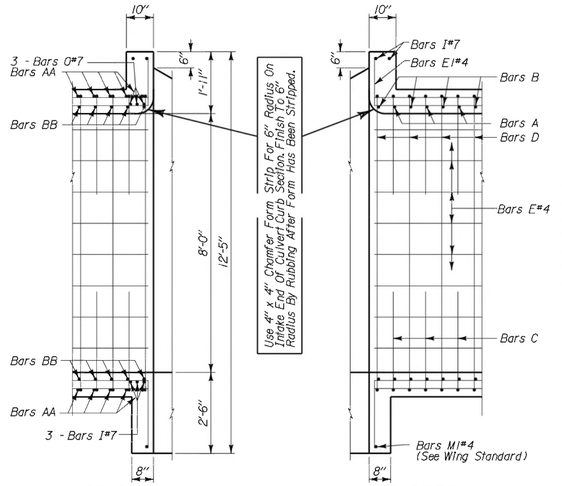
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



TYPICAL CROSS SECTION

Scale: 1/2" = 1' - 0"



ON SKEW — LONGITUDINAL SECTION — NO SKEW

Scale: 1/2" = 1' - 0"

F111	Bars B
0' - 3'	#5 8' - 10"
3' - 6'	#4 8' - 10"
6' - 12'	#5 9' - 2"
12' - 18'	#5 9' - 3"
18' - 24'	#7 9' - 5"
24' - 30'	#8 9' - 6"
30' - 36'	#7 9' - 7"
36' - 42'	#8 9' - 8"
42' - 48'	#8 9' - 10"
48' - 54'	#9 9' - 11"
54' - 60'	#9 10' - 0"
60' - 66'	#10 10' - 2"
66' - 72'	#10 10' - 3"

F111	Bars F#4
0' - 3'	9' - 3"
3' - 6'	9' - 3"
6' - 12'	9' - 3"
12' - 18'	9' - 4"
18' - 24'	9' - 6"
24' - 30'	9' - 9"
30' - 36'	9' - 11"
36' - 42'	10' - 1"
42' - 48'	10' - 3"
48' - 54'	10' - 4"
54' - 60'	10' - 6"
60' - 66'	10' - 8"
66' - 72'	10' - 9"

F111	Total Length	Bars D#4	Bars D#5	Bars D#6	Bars D#7	Bars D#8	Bars D#9	Bars D#10
0' - 3'	9' - 3" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	15" - 11"	16" - 3"	16" - 6"
3' - 6'	9' - 3" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 1"	16" - 5"	16" - 8"
6' - 12'	9' - 3" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
12' - 18'	9' - 4" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
18' - 24'	9' - 6" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
24' - 30'	9' - 9" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
30' - 36'	9' - 11" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
36' - 42'	10' - 1" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
42' - 48'	10' - 3" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
48' - 54'	10' - 4" o.a.	15" - 5"	15" - 5"	15" - 6"	15" - 8"	16" - 3"	16" - 6"	16" - 8"
54' - 60'	10' - 6" o.a.	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"
60' - 66'	10' - 8" o.a.	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"	16" - 8"
66' - 72'	10' - 9" o.a.	18" - 6"	18" - 6"	18" - 6"	18" - 7"	18" - 7"	18" - 7"	18" - 7"

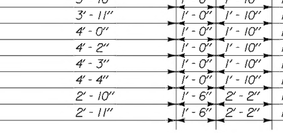
F111 60' - 72' 3' - 11" o.a.
F111 0' - 60' 3' - 1" o.a.

F111 0' - 3' Bars N1#4 5' - 2"

F111 60' - 72' 3' - 11" o.a.
F111 0' - 60' 3' - 1" o.a.

F111	Total Length	Bars C
0' - 60'		6' - 2"
60' - 72'		7' - 10"

F111 60' - 72' 3' - 11" o.a. / 0' - 60' 3' - 1" o.a.



F111 0' - 3' 3' - 6' 6' - 12' 12' - 18' 18' - 24' 24' - 30' 30' - 36' 42' - 48' 48' - 54' 54' - 60' 60' - 66' 66' - 72'

5 1/2" 5 1/2" 5 1/4" 6" 7" 8 1/2" 9 1/2" 10 1/2" 11 1/2" 1' - 0" 1' - 1" 1' - 2" o.a.

F111					Total Length
0' - 3'	1' - 10"	1' - 0"	Bars A#5	3' - 2"	1' - 0" 1' - 10" 10' - 2 1/2"
3' - 6'	1' - 10"	1' - 0"	Bars A#4	3' - 2"	1' - 0" 1' - 10" 10' - 0 1/2"
6' - 12'	1' - 10"	1' - 0"	Bars A#5	3' - 6"	1' - 0" 1' - 10" 10' - 6 1/2"
12' - 18'	1' - 10"	1' - 0"	Bars A#5	3' - 7"	1' - 0" 1' - 10" 10' - 8"
18' - 24'	1' - 10"	1' - 0"	Bars A#7	3' - 9"	1' - 0" 1' - 10" 11' - 5"
24' - 30'	1' - 10"	1' - 0"	Bars A#8	3' - 10"	1' - 0" 1' - 10" 11' - 9 1/2"
30' - 36'	1' - 10"	1' - 0"	Bars A#7	3' - 11"	1' - 0" 1' - 10" 11' - 9 1/2"
36' - 42'	1' - 10"	1' - 0"	Bars A#8	4' - 0"	1' - 0" 1' - 10" 12' - 2"
42' - 48'	1' - 10"	1' - 0"	Bars A#8	4' - 2"	1' - 0" 1' - 10" 12' - 5"
48' - 54'	1' - 10"	1' - 0"	Bars A#9	4' - 3"	1' - 0" 1' - 10" 13' - 3"
54' - 60'	1' - 10"	1' - 0"	Bars A#9	4' - 4"	1' - 0" 1' - 10" 13' - 5 1/2"
60' - 66'	2' - 2"	1' - 6"	Bars A#10	2' - 10"	1' - 6" 2' - 2" 13' - 9 1/2"
66' - 72'	2' - 2"	1' - 6"	Bars A#10	2' - 11"	1' - 6" 2' - 2" 13' - 11"

F111 0° SKEW

0' - 6'	Bars I#7 - 4 Req'd	8' - 10"
6' - 12'	Bars I#7 - 4 Req'd	9' - 2"
0' - 12'	Bars M1#4 - 2 Req'd	3' - 10"

F111 30° SKEW

0' - 6'	Bars I#7 - 10 Req'd	10' - 2 1/2"
6' - 12'	Bars I#7 - 10 Req'd	10' - 7"
0' - 12'	Bars M1#4 - 2 Req'd	4' - 11 1/2"

F111 Total Length

0' - 6'	Bars 0#7 - 6 Req'd	10' - 2 1/2" o.a.	11' - 10 1/2"
6' - 12'	Bars 0#7 - 6 Req'd	10' - 7" o.a.	12' - 3"

F111 45° SKEW

0' - 6'	Bars I#7 - 10 Req'd	12' - 6"
6' - 12'	Bars I#7 - 10 Req'd	12' - 11 1/2"
0' - 12'	Bars M1#4 - 2 Req'd	6' - 6"

F111 Total Length

0' - 6'	Bars 0#7 - 6 Req'd	12' - 6" o.a.	14' - 2"
6' - 12'	Bars 0#7 - 6 Req'd	12' - 11 1/2" o.a.	14' - 7 1/2"

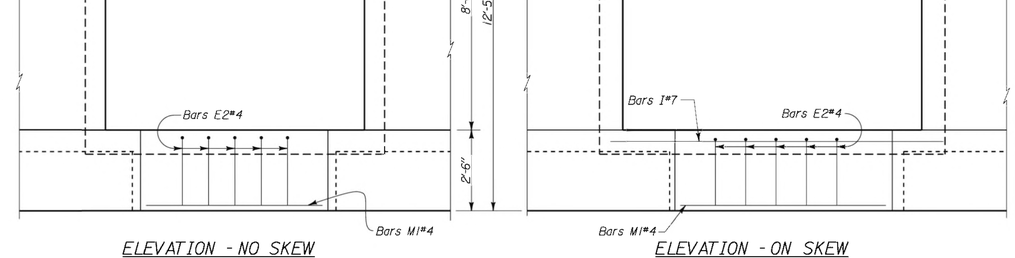
F111 60° SKEW

0' - 6'	Bars I#7 - 10 Req'd	17' - 8"
6' - 12'	Bars I#7 - 10 Req'd	18' - 4"
0' - 12'	Bars M1#4 - 2 Req'd	10' - 0"

F111 Total Length

0' - 6'	Bars 0#7 - 6 Req'd	17' - 8" o.a.	19' - 4"
6' - 12'	Bars 0#7 - 6 Req'd	18' - 4" o.a.	20' - 0"

F111	"a"	"b"	Bars A & B	Bars C & D
0' - 3'	9 1/2"	7"	# 5 @ 9" o.c.	# 4 @ 9" o.c.
3' - 6'	9 1/2"	7"	# 4 @ 8" o.c.	# 4 @ 8" o.c.
6' - 12'	9 1/2"	9"	# 5 @ 11" o.c.	# 5 @ 11" o.c.
12' - 18'	10"	9 1/2"	# 5 @ 8" o.c.	# 5 @ 8" o.c.
18' - 24'	11"	10 1/2"	# 7 @ 13" o.c.	# 7 @ 13" o.c.
24' - 30'	12 1/2"	11"	# 8 @ 15" o.c.	# 8 @ 15" o.c.
30' - 36'	13 1/2"	11 1/2"	# 7 @ 10" o.c.	# 7 @ 10" o.c.
36' - 42'	14 1/2"	12"	# 8 @ 12" o.c.	# 8 @ 12" o.c.
42' - 48'	15 1/2"	13"	# 8 @ 11" o.c.	# 7 @ 11" o.c.
48' - 54'	16"	13 1/2"	# 9 @ 13" o.c.	# 8 @ 13" o.c.
54' - 60'	17"	14"	# 9 @ 13" o.c.	# 9 @ 13" o.c.
60' - 66'	18"	15"	# 10 @ 16" o.c.	# 10 @ 16" o.c.
66' - 72'	18 1/2"	15 1/2"	# 10 @ 14" o.c.	# 9 @ 14" o.c.

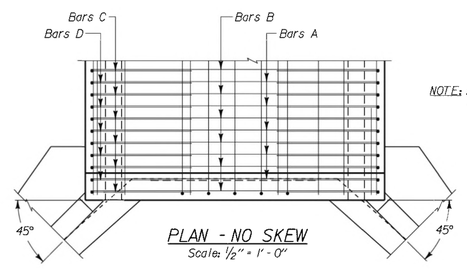


ELEVATION - NO SKEW

Scale: 1/2" = 1' - 0"

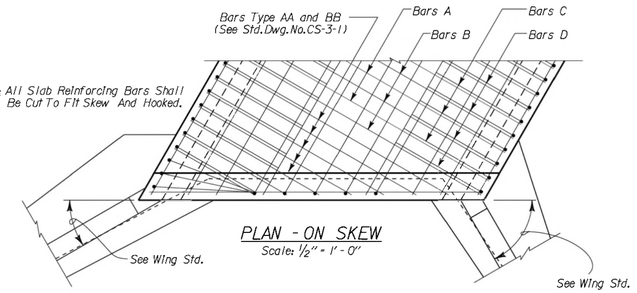
ELEVATION - ON SKEW

Scale: 1/2" = 1' - 0"



PLAN - NO SKEW

Scale: 1/2" = 1' - 0"



NOTE: All Slab Reinforcing Bars Shall Be Cut To Fit Skew And Hooked.

PLAN - ON SKEW

Scale: 1/2" = 1' - 0"

ESTIMATED QUANTITIES

FILL	PER LIN. FT. BB'L.		CURBS & TOEWALLS							
			0° SKEW		30° SKEW		45° SKEW		60° SKEW	
	C.Y. CONC.	LB. REINF.	C.Y. CONC.	LB. REINF.	C.Y. CONC.	LB. REINF.	C.Y. CONC.	LB. REINF.	C.Y. CONC.	LB. REINF.
0' - 3'	.89	146	1.10	103	1.28	386	1.59	463	2.32	637
3' - 6'	.89	134	1.10	103	1.28	386	1.59	463	2.32	637
6' - 12'	1.01	149	1.15	106	1.34	399	1.66	478	2.42	659
12' - 18'	1.07	190								
18' - 24'	1.19	226								
24' - 30'	1.31	253								
30' - 36'	1.40	286								
36' - 42'	1.50	311								
42' - 48'	1.62	300								
48' - 54'	1.69	330								
54' - 60'	1.78	372								
60' - 66'	1.92	426								
66' - 72'	1.98	429								

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION; AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

THIS STANDARD TO BE USED WITH ANY OF THE FOLLOWING STANDARDS
CS-3-1 & Wing Std. For Required Wing.

REVISIONS

1. F111 Height Reduced 08/11/00 - M.G.M
2. Digitized 04/18/03 - V.T.W

CHECKED BY: W.J.J. DRAWN BY:
DATE CHECKED: DATE DRAWN: 05/11/88

STANDARD
REINFORCED CONCRETE BOX CULVERT
OPENING SINGLE 8'x8'
FILL 0' - 72' ANY SKEW

ESTIMATED QUANTITIES
COMPUTED BY: R.T.
VERIFIED BY: W.J.J.
DESIGNED BY: T.J.D.
SCALE: As Shown

STANDARD DWG. NO.
CS-88

Plotted: 22-FEB-2018 11:13
Z:\Standards\Culvert\uscust\standard\1b0808.dgn

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

REVISION NO.	DESCRIPTION	DATE	BY:
0	ISSUE FOR BID	2/23/24	NTC

ALABAMA LICENSED No. 62734 PROFESSIONAL 02/23/2024 ENGINEER NICK COMBS

CITY OF FAIRHOPE
FAIRHOPE, ALABAMA

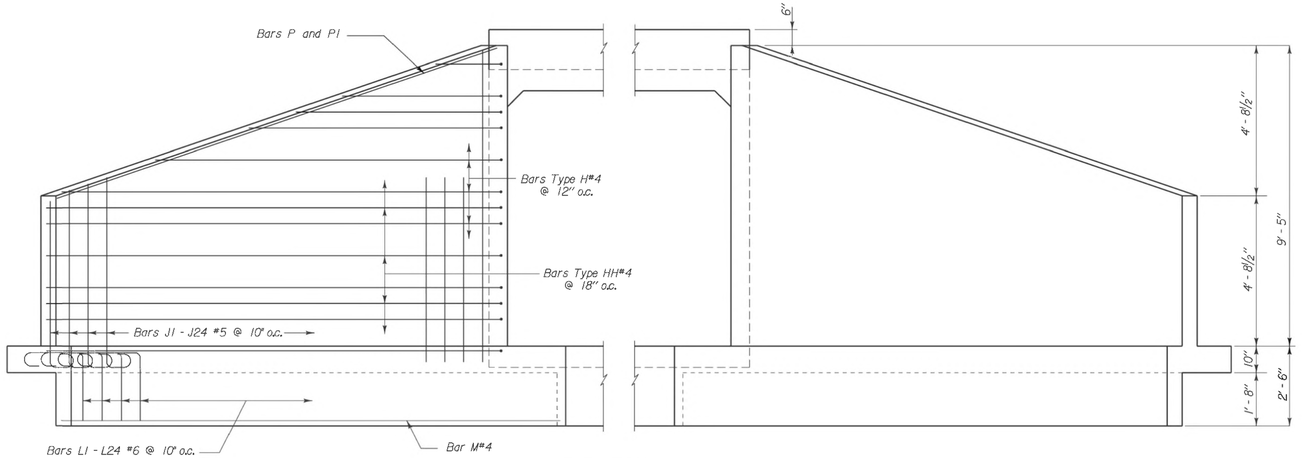
thompson ENGINEERING
2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
TEL: (251) 666-2443
FAX: (251) 666-6422

SCALE:	PLOT SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	DRAWING NO.	REVISION NO. :
	1:1	NTC	CCG	NTC	FEBRUARY 2024	22-1101-0229	C601	0

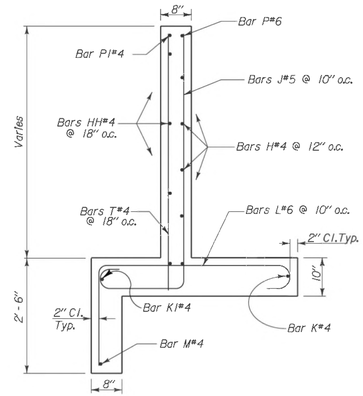
FLYING CREEK NATURE PRESERVE

CONSTRUCTION DETAILS

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

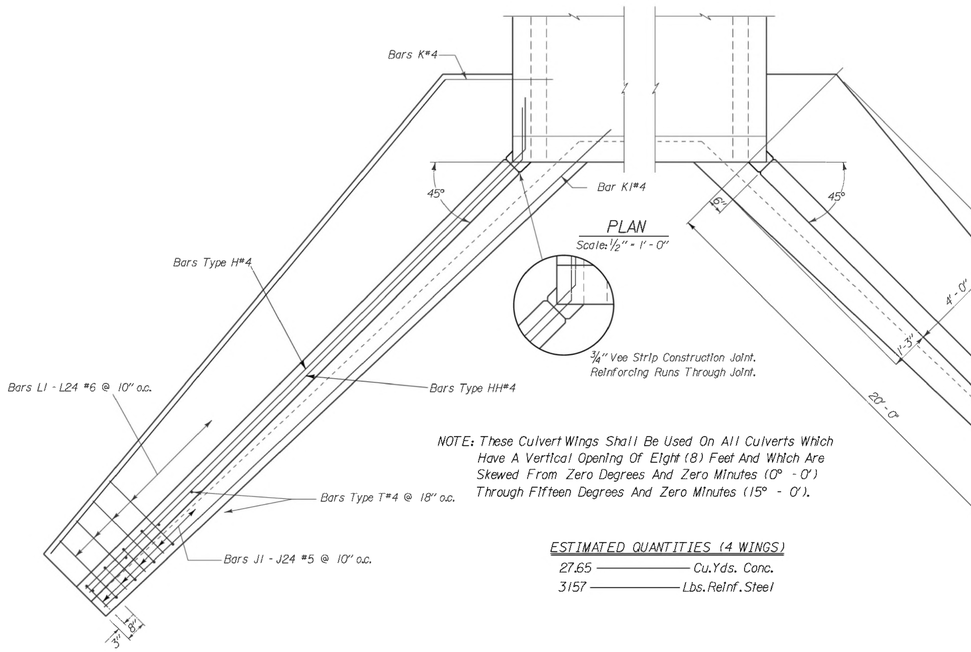


ELEVATION
Scale: ½" = 1' - 0"



TYPICAL WING SECTION
Scale: ¾" = 1' - 0"

Bar	Size	No.	Total Length	DIMENSIONS "A"	"B"
J1	#5	4	6'-10"	1'-0"	5'-3"
J2	#5	4	6'-9½"	1'-0½"	5'-2"
J3	#5	4	7'-3½"	1'-0½"	5'-8"
J4	#5	4	6'-10"	1'-1"	5'-2"
J5	#5	4	7'-9"	1'-1½"	6'-0½"
J6	#5	4	6'-10½"	1'-1½"	5'-2"
J7	#5	4	8'-2"	1'-2"	6'-5"
J8	#5	4	6'-11"	1'-2"	5'-2"
J9	#5	4	8'-7½"	1'-2½"	6'-10"
J10	#5	4	6'-11½"	1'-2½"	5'-2"
J11	#5	4	9'-0"	1'-3"	7'-2"
J12	#5	4	7'-0½"	1'-3½"	5'-2"
J13	#5	4	9'-6"	1'-3½"	7'-7½"
J14	#5	4	7'-1"	1'-4"	5'-2"
J15	#5	4	9'-11"	1'-4"	8'-0"
J16	#5	4	7'-1½"	1'-4½"	5'-2"
J17	#5	4	10'-4½"	1'-4½"	8'-5"
J18	#5	4	7'-2"	1'-5"	5'-2"
J19	#5	4	10'-10"	1'-5½"	8'-9½"
J20	#5	4	7'-2½"	1'-5½"	5'-2"
J21	#5	4	11'-3"	1'-6"	9'-2"
J22	#5	4	7'-3"	1'-6"	5'-2"
J23	#5	4	11'-8½"	1'-6½"	9'-7"
J24	#5	4	7'-4"	1'-7"	5'-2"
L1	#6	4	5'-5"	2'-7"	2'-2"
L2	#6	4	5'-6"	2'-8"	2'-2"
L3	#6	4	5'-7½"	2'-9½"	2'-2"
L4	#6	4	5'-8½"	2'-10½"	2'-2"
L5	#6	4	5'-10"	3'-0"	2'-2"
L6	#6	4	5'-11"	3'-1"	2'-2"
L7	#6	4	6'-0"	3'-2"	2'-2"
L8	#6	4	6'-1½"	3'-3½"	2'-2"
L9	#6	4	6'-2½"	3'-4½"	2'-2"
L10	#6	4	6'-4"	3'-5"	2'-2"
L11	#6	4	6'-5"	3'-7"	2'-2"
L12	#6	4	6'-6½"	3'-8½"	2'-2"
L13	#6	4	6'-7½"	3'-9½"	2'-2"
L14	#6	4	6'-9"	3'-11"	2'-2"
L15	#6	4	6'-10"	4'-0"	2'-2"
L16	#6	4	6'-11"	4'-1"	2'-2"
L17	#6	4	7'-0½"	4'-2½"	2'-2"
L18	#6	4	7'-1½"	4'-3½"	2'-2"
L19	#6	4	7'-3"	4'-5"	2'-2"
L20	#6	4	7'-4"	4'-6"	2'-2"
L21	#6	4	7'-5"	4'-7"	2'-2"
L22	#6	4	7'-6½"	4'-8½"	2'-2"
L23	#6	4	7'-7½"	4'-9½"	2'-2"
L24	#6	4	7'-9"	4'-11"	2'-2"
P	6	4	20'-0"	0	0
P1	4	4	20'-0"	0	0
K	4	4	27'-6½"	23'-9"	3'-9½"
K1	4	4	25'-0½"	0	0
M	4	4	23'-0½"	21'-4½"	1'-8"

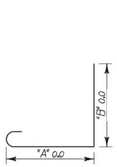


NOTE: These Culvert Wings Shall Be Used On All Culverts Which Have A Vertical Opening Of Eight (8) Feet And Which Are Skewed From Zero Degrees And Zero Minutes (0° - 0') Through Fifteen Degrees And Zero Minutes (15° - 0').

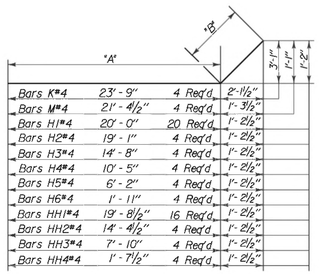
ESTIMATED QUANTITIES (4 WINGS)

27.65 ——— Cu.Yds. Conc.

3157 ——— Lbs.Reinf. Steel



Bars "J" and "L"



Bar			
Bars K#4	23'-9"	4 Req'd.	2'-1½"
Bars M#4	21'-4½"	4 Req'd.	1'-3½"
Bars H1#4	20'-0"	20 Req'd.	1'-2½"
Bars H2#4	19'-1"	4 Req'd.	1'-2½"
Bars H3#4	14'-8"	4 Req'd.	1'-2½"
Bars H4#4	10'-5"	4 Req'd.	1'-2½"
Bars H5#4	6'-2"	4 Req'd.	1'-2½"
Bars H6#4	1'-11"	4 Req'd.	1'-2½"
Bars HH1#4	19'-8½"	16 Req'd.	1'-2½"
Bars HH2#4	14'-4½"	4 Req'd.	1'-2½"
Bars HH3#4	7'-10"	4 Req'd.	1'-2½"
Bars HH4#4	1'-7½"	4 Req'd.	1'-2½"

Bar	Size	No.	Total Length	DIMENSIONS "A"	"B"
T1	4	4	5'-3"	0	0
T2	4	4	5'-7½"	0	0
T3	4	4	6'-0"	0	0
T4	4	4	6'-4"	0	0
T5	4	4	6'-8½"	0	0
T6	4	4	7'-1"	0	0
T7	4	4	7'-5½"	0	0
T8	4	4	7'-9½"	0	0
T9	4	4	8'-2"	0	0
T10	4	4	8'-6"	0	0
T11	4	4	8'-10½"	0	0
T12	4	4	9'-3"	0	0
T13	4	4	9'-7½"	0	0
H1	4	20	21'-8"	20'-0"	1'-8"
H2	4	4	20'-9"	19'-1"	1'-8"
H3	4	4	16'-4"	14'-8"	1'-8"
H4	4	4	12'-1"	10'-5"	1'-8"
H5	4	4	7'-10"	6'-2"	1'-8"
H6	4	4	3'-7"	1'-11"	1'-8"
HH1	4	16	21'-5½"	19'-8½"	1'-8"
HH2	4	4	16'-0½"	14'-4½"	1'-8"
HH3	4	4	9'-6"	7'-10"	1'-8"
HH4	4	4	3'-3½"	1'-7½"	1'-8"

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

THIS STANDARD TO BE USED WITH ANY OF THE FOLLOWING STANDARDS

REVISIONS
① Reinf. 3-22-82 F.W.
② Digitized 6-24-05 L.E.D.

STANDARD
REINFORCED CONCRETE
BOX CULVERT WINGS
OPENING 8' HEIGHT
3 TO 1 SLOPE 0° SKEW

ESTIMATED QUANTITIES	STANDARD DWG. NO.
COMPUTED BY:	
VERIFIED BY: F.W.	W8-3:1-0°
CHECKED BY:	DRAWN BY: Johnson
DESIGNED BY: M.T.W.	
DATE CHECKED:	DATE DRAWN: 7-27-70
SCALE: As Shown	

Plotted: 23-FEB-2018 15:21
Z:\Standards\Culvert\uscust\wingw083000.dgn

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

REVISION NO.	DESCRIPTION	DATE	BY:
0	ISSUE FOR BID	2/23/24	NTC

ALABAMA LICENSED No. 62714 PROFESSIONAL 02/23/2024 ENGINEER NICK COMBS

CITY OF FAIRHOPE
FAIRHOPE, ALABAMA

thompson ENGINEERING
2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
TEL: (251) 666-2443
FAX: (251) 666-6422

FLYING CREEK NATURE PRESERVE

CONSTRUCTION DETAILS

SCALE:	PLOT SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	DRAWING NO.	REVISION NO. :
	1:1	NTC	CCG	NTC	FEBRUARY 2024	22-1101-0229	C602	0

1. GENERAL REQUIREMENTS:
   1.1. THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE SPECIFIED BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE BUILDING CODE.
   1.2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
   1.3. STRUCTURAL DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY AND SHALL APPLY FOR LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. IF THERE IS A QUESTION REGARDING THE APPLICABILITY OF A DETAIL, CONTACT THE ARCHITECT/ENGINEER IN WRITING REQUESTING CLARIFICATION.
   1.4. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED, OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
   1.5. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER FOR DIMENSIONS NOT PROVIDED.
   1.6. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
   1.7. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION RELATED TO SAFETY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS.
   1.8. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.
   1.9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY, OR OTHERWISE INTERFERE WITH, INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATIONS OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD DAMAGE TO THE NEW WORK (e.g. DIFFERENTIAL SETTLEMENT).
2. EXISTING CONDITIONS:
   2.1. EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY.
   2.2. CONTRACTOR SHALL FIELD VERIFY CONDITIONS DEPICTED ON THESE DRAWINGS AS THEY ARE UNCOVERED DURING CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY.
   2.3. FIELD DIMENSIONS VERIFIED BY THE CONTRACTOR SHALL BE SHOWN ON THE SUBMITTED SHOP DRAWINGS.
   2.4. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE AND UNDAMAGED CONDITION DURING THE PROCESS OF DEMOLITION AND NEW CONSTRUCTION.
3. DESIGN CRITERIA:
   3.1. GENERAL BUILDING CODE:
      3.1.1. INTERNATIONAL BUILDING CODE, IBC 2018 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.
   3.2. DESIGN LOAD CRITERIA:
      3.2.1. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
   3.3. TIMBER:
      3.3.1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL, NDS.
4. DESIGN LOADS:
   4.1. DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
   4.2. LIVE LOADS (PSF):
   4.3. WIND LOADS:

BASIC WIND SPEED (V)157 MPHALLOWABLE WIND SPEED (Vasd)122 MPHRISK CATEGORYIIEXPOSURE CATEGORYBPRESSURE COEFFICIENT 0.005. STRUCTURAL OBSERVATIONS:

   5.1. STRUCTURAL OBSERVATIONS ARE VISUAL OBSERVATIONS BY A STRUCTURAL ENGINEER OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION.
6. SHOP DRAWINGS AND SUBMITTALS:
   6.1. THE USE OR REPRODUCTION OF THE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS NOT PERMITTED.
   6.2. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
   6.3. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES.
   6.4. SHOP DRAWINGS AND CALCULATIONS SUBMITTED AS PART OF A DELEGATED DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF THE PROJECT.
   6.5. HARDCOPY SHOP DRAWING SUBMITTALS: SUBMIT ALL SHOP DRAWINGS ON THREE PRINTS ONLY. ONE PRINT WILL BE RETURNED TO THE CONTRACTOR. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED. IF ADDITIONAL PRINTS ARE SUBMITTED, THEY WILL BE RETURNED UNMARKED.
   6.6. ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
   6.7. RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
   6.8. SHOP DRAWINGS: SEE THE RELATED MATERIAL SECTION FOR THE REQUIRED SUBMITTALS AND SHOP DRAWINGS.
7. TIMBER PILES:
   7.1. TIMBER PILE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, AMERICAN WOOD COUNCIL, AND ASTM D25 STANDARD SPECIFICATION FOR ROUND TIMBER PILES.
   7.2. ALL TIMBER PILING SHALL BE SOUTHERN PINE.
   7.3. ALL TIMBER PILING SHALL CONFORM TO ASTM D25, CLASS A WITH A MINIMUM TIP DIAMETER OF 8" AND MINIMUM BUTT DIAMETER OF 14" THREE FEET FROM THE BUTT.
   7.4. EACH PILE SHALL BE IDENTIFIED WITH A QUALITY MARK BY AN APPROVED INSPECTION AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARDS COMMITTEE (ALSC).
   7.5. ALL TIMBER PILES SHALL BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD UC4B TO 0.6 PCF CCA FOR HEAVY DUTY GROUND CONTACT FOUNDATION SYSTEMS.
   7.6. PILING CONTRACTOR SHALL CUT OFF PILES CLEAN AND HORIZONTAL AT THE PILE ELEVATIONS SHOWN ON THE DRAWINGS.
   7.7. PILING CONTRACTOR SHALL COMPACT SOIL AROUND PILING TO THE BOTTOM OF THE CAP ELEVATIONS SHOWN ON THE DRAWINGS.
   7.8. JETTING SHALL NOT BE PERMITTED UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.
   7.9. ALL PILES SHALL BE DRIVEN TO REFUSAL OR THE DEPTHS GIVEN IN THE GEOTECHNICAL REPORT. IF REFUSAL IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ANY OBSTRUCTION TO DRIVING TO THE SPECIFIED PENETRATION SHALL BE REMOVED.
   7.10. PILES SHALL BE CAREFULLY LOCATED AS SHOWN IN THE PROJECT PLANS WITH A TOLERANCE OF 3 INCHES. PILING SHALL BE PLACED PLUMB WITH OUT-OF-PLUMBNESS NOT EXCEEDING 1/8 INCH PER FOOT.
   7.11. PILINGS SHALL NOT BE DRIVEN WITHIN 100 FEET OF CONCRETE LESS THAN 7 DAYS OLD.
8. WOOD FRAMING:
   8.1. WOOD CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE AND THE AMERICAN WOOD COUNCIL REQUIREMENTS.
   8.2. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.
   8.3. WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN PINE.
   8.4. PRESERVATIVE RETENTION:
      8.4.1.0.60 LBS/FT3 PERMANENT WOOD FOUNDATIONS
      8.4.2.0.40 LBS/FT3 GROUND CONTACT
      8.4.3.0.25 LBS/FT3 ABOVE GROUND
   8.5. ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL, OR AS RECOMMENDED BY THE PRESERVATIVE MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
   8.6. ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.

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ALABAMA LICENSED No. 50027 PROFESSIONAL 02/23/2024 ENGINEER JARED H. BLOUNT

CITY OF FAIRHOPE
FAIRHOPE, ALABAMA

thompson ENGINEERING
2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
TEL: (251) 666-2443
FAX: (251) 666-6422

FLYING CREEK NATURE PRESERVE

GENERAL NOTES

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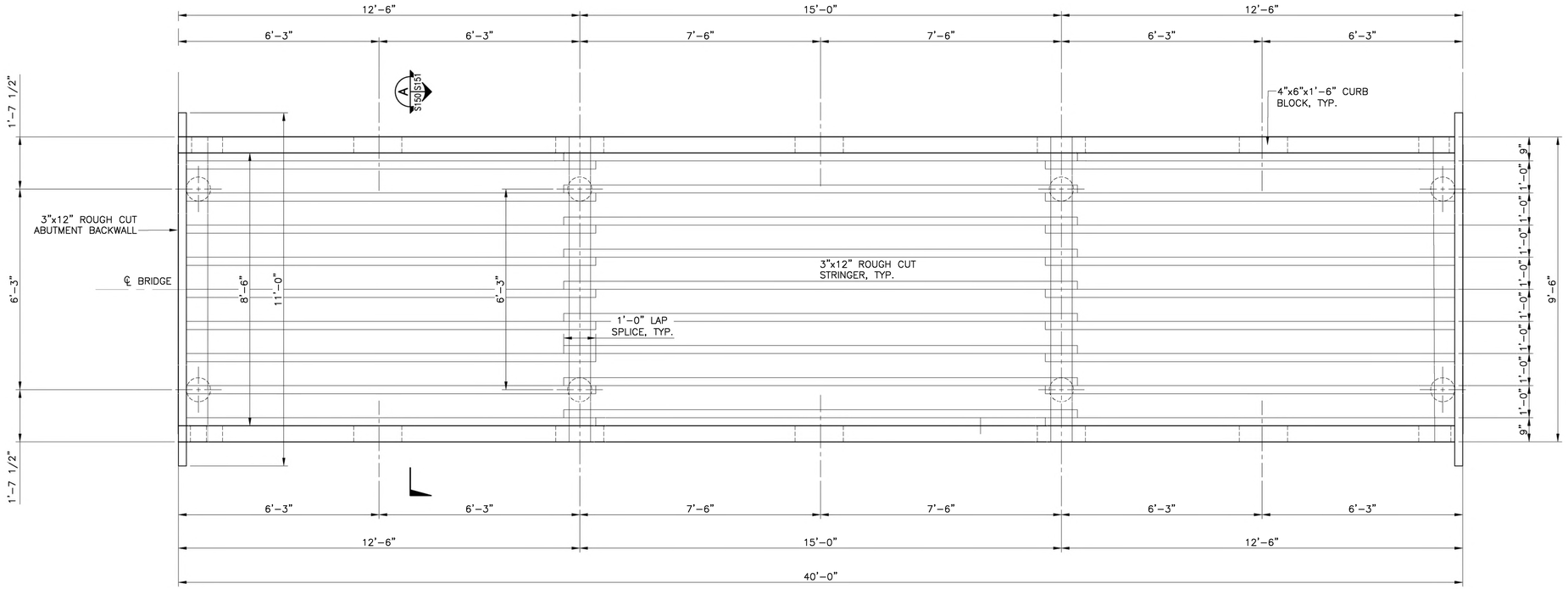
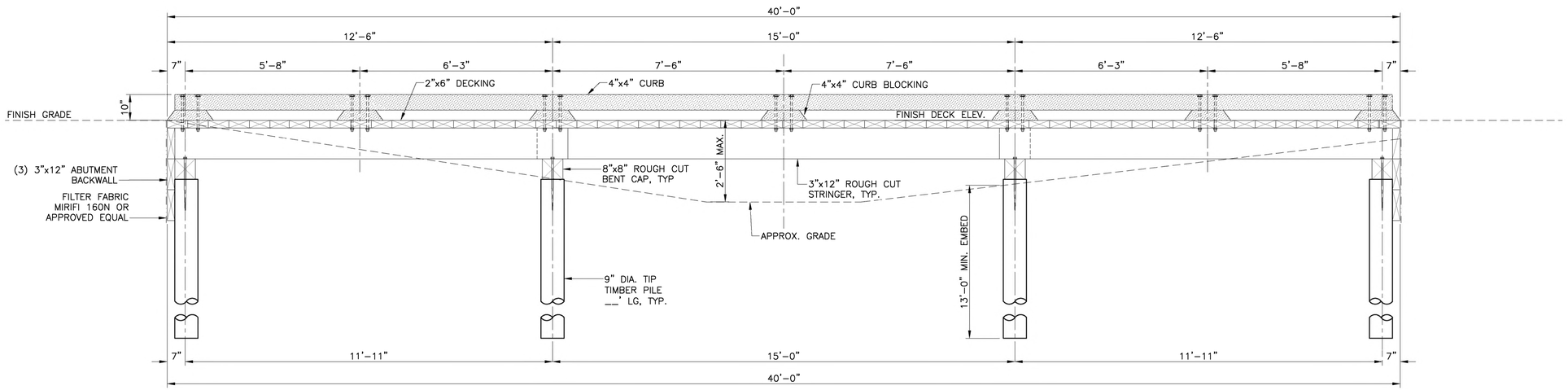


TUNNEL BOARDWALK BRIDGE PLAN

SCALE: 1/2" = 1'-0"



TUNNEL BOARDWALK BRIDGE ELEVATION

SCALE: 1/2" = 1'-0"

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ALABAMA LICENSED — Jared Blount — No. 50027 — PROFESSIONAL — 02/23/2024 — ENGINEER — JARED H. BLOUNT

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TUNNEL BOARDWALK BRIDGE PLANS AND ELEVATIONS

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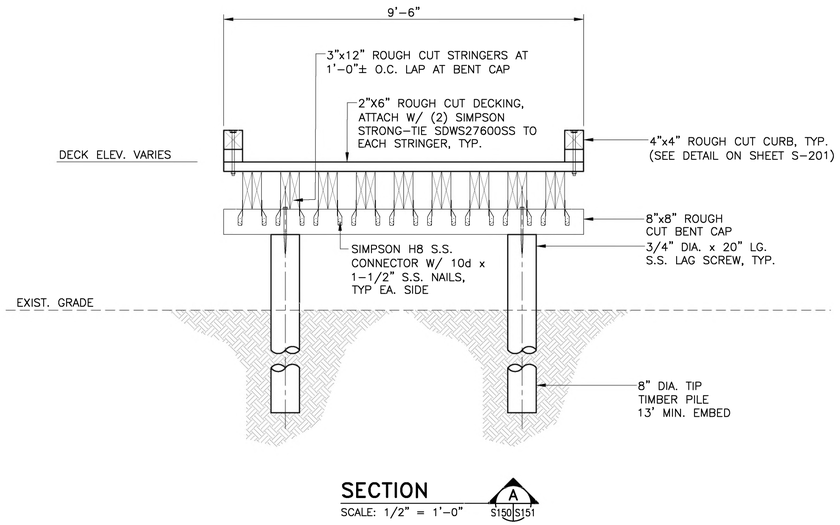
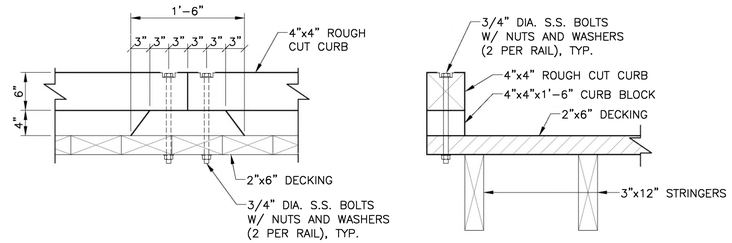


SECTION A S150|S151

SCALE: 1/2" = 1'-0"



ELEVATION **SECTION**

GUARDRAIL DETAIL

SCALE: 3/4" = 1'-0"

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TUNNEL BOARDWALK BRIDGE
SECTIONS AND DETAILS

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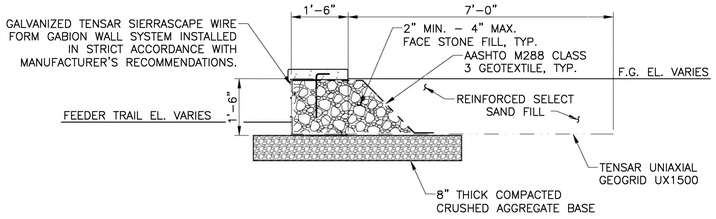

RETAINING WALL TYPICAL SECTION (1 LIFT)

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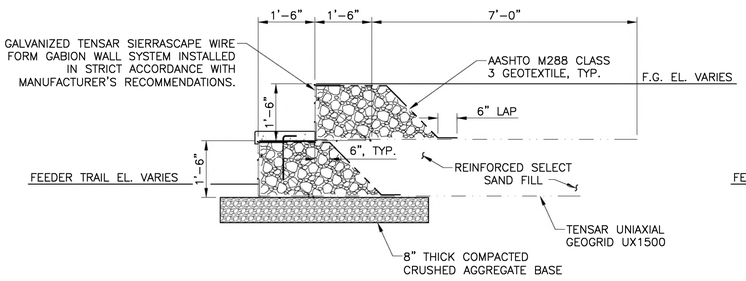

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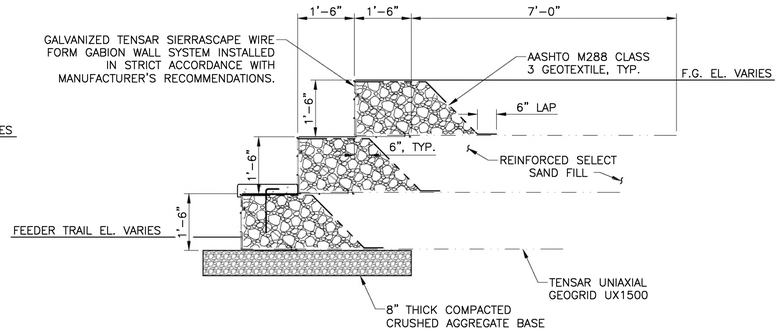

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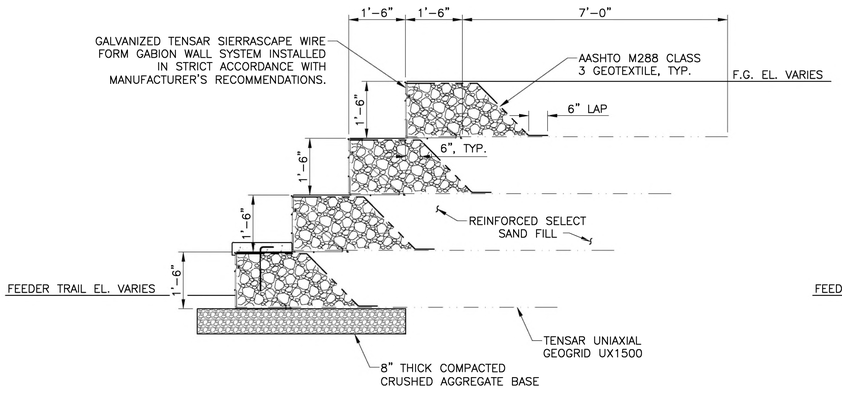

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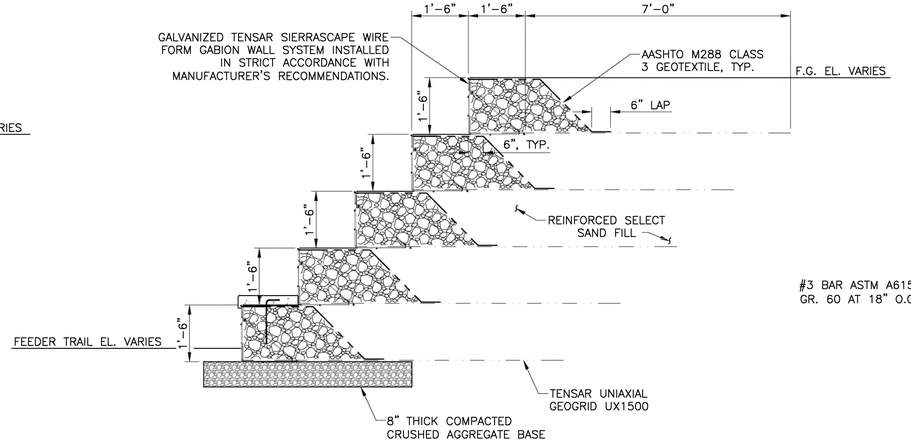

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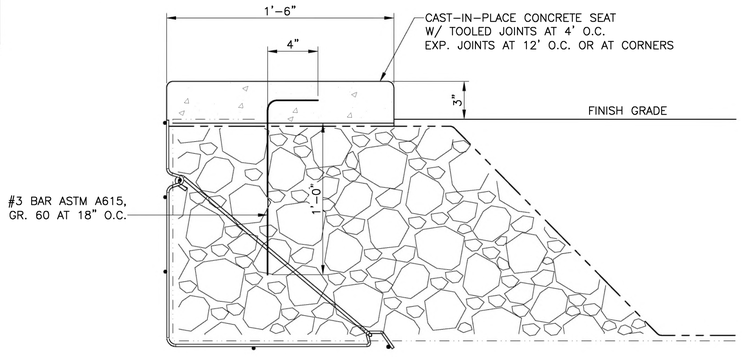
SCALE: N.T.S.



SEAT CAP DETAIL

SCALE: N.T.S.

SEAT CAP NOTES

1. DESCRIPTION: CUSTOM ~~RECYCLED GLASS CONCRETE SEAT~~ CAP INSTALLED ATOP TENSAR SIERRASCAPE GABION WALL AS SHOWN ON THE PLANS. SEAT CAPS TO BE MADE FROM 70% RECYCLED CRUSHED GLASS CONCRETE SOURCED FROM THE CITY OF FAIRHOPE.
2. MANUFACTURER: OSPREY INITIATIVE, LLC, 2350 HALLS MILL ROAD, MOBILE, ALABAMA, 36606, CONTACT: DON BATES, (O.) 251-525-9727, (C) 601-842-7305, WEBSITE: WWW.OSPREY.WORLD, EMAIL: DON.BATES@OSPREY.WORLD.
3. MODEL: CUSTOM ACCORDING TO PLANS.
4. QUANTITY: AS SHOWN ON PLANS.
5. FINISHES: CUSTOM ACCORDING TO PLANS.
6. INSTALLATION: PER LAYOUT AND SECTION SHOWN ON PLANS.
7. CONSTRUCTION AND INSTALLATION OF THE SEAT CAP AS SHOWN IS CONSIDERED A SUBSIDIARY OBLIGATION OF PAY ITEM 529A010.

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ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 50027
02/23/2024
JARED H. BLOUNT

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RETAINING WALL TYPICAL SECTIONS

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