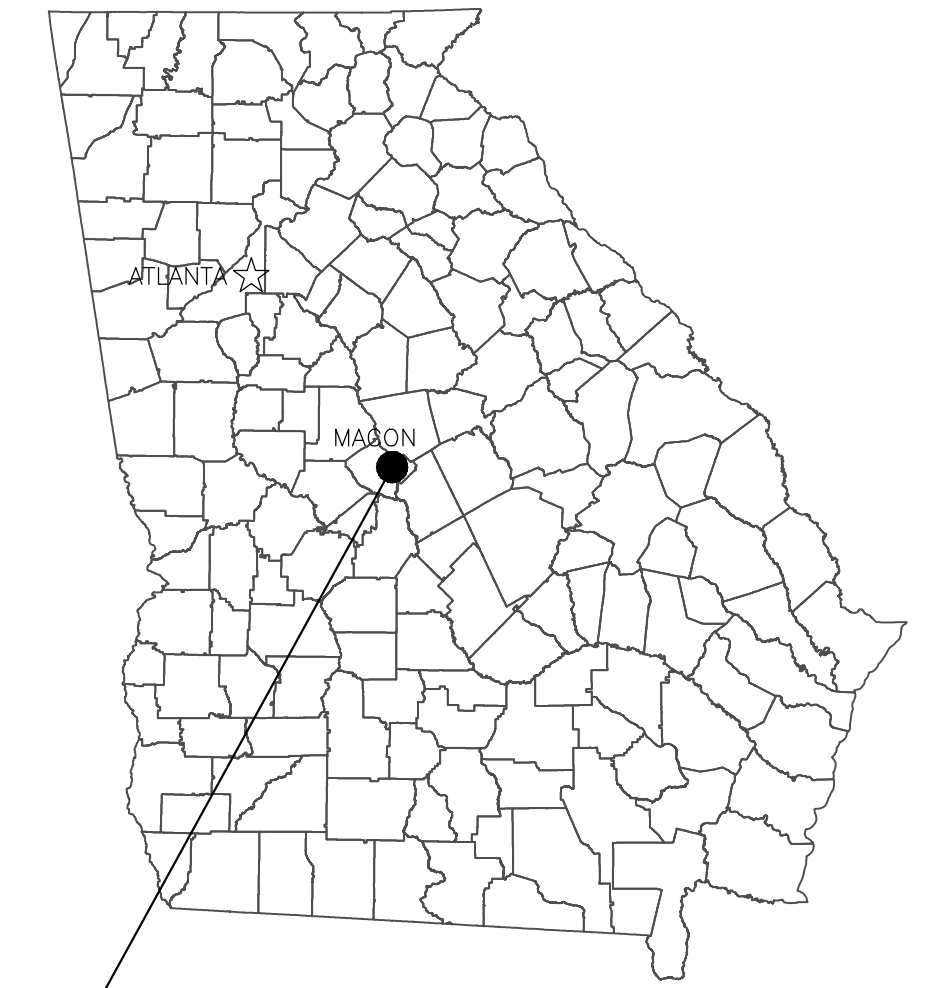


CONTRACT DRAWINGS FOR:

Middle Georgia Regional Airport

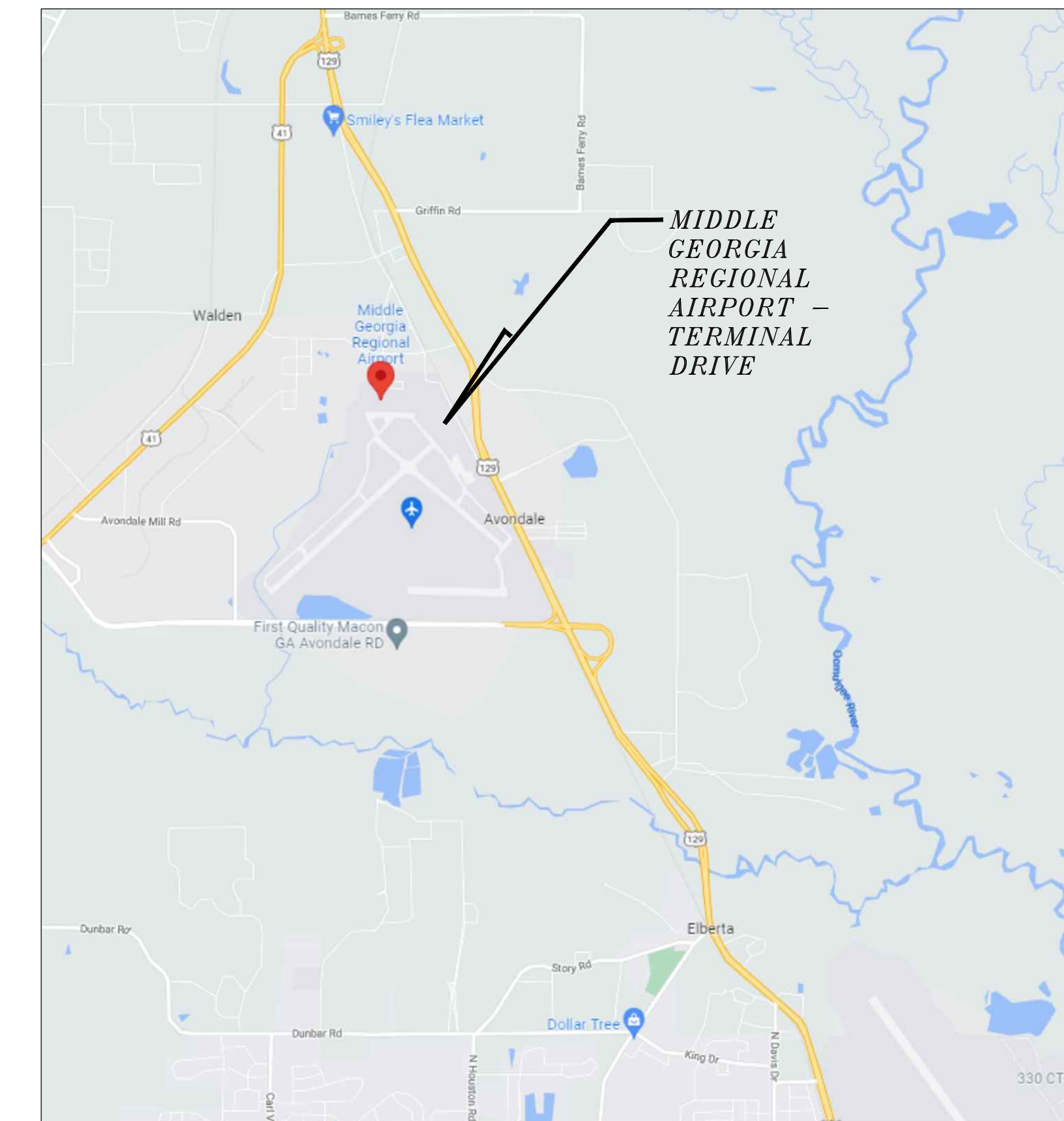
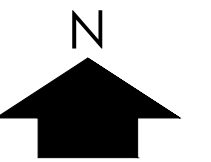
1000 TERMINAL DRIVE SUITE 100
MACON, GA 31216

RUNWAY 5-23 EXTENSION - PACKAGE 1 RETAINING WALL, PHASE 1

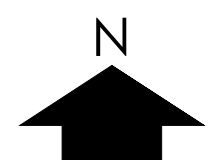


PROJECT LOCATION
MACON GEORGIA

VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



BID SET

September 2022

FEDERAL AVIATION ADMINISTRATION
AIRPORT IMPROVEMENT PROGRAM
PROJECT NUMBER: TBA

PASSERO ASSOCIATES
PROJECT NUMBER 20202946.0009

PA PASSERO ASSOCIATES
engineering architecture
www.Passero.com

4730 Casa Cola Way, Suite 200 (904) 757-6106
St. Augustine, FL. 32095 Fax: (904) 757-6107
Certificate of Authorization # 3428

BID QUANTITIES

BASE BID				
ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT	AS CONSTRUCTED
C-105-6.1	Mobilization	1	LS	
500-3810	Class AA Concrete, Including Reinforcing Steel	2,487	CY	
641-4086	Concrete Side Barrier, Type 7WS	750	LF	
648-1550	Impact Attenuator Unit, Type S-4-S-38	2	EA	

INDEX OF SHEETS

DRAWING NO.	DRAWING TITLE
G1-1	COVER SHEET
G1-2	INDEX OF SHEETS & BID QUANTITIES
G1-3	SAFETY, SECURITY & GENERAL NOTES
G2-1	PROJECT LAYOUT & SURVEY CONTROL PLAN
C1-1 THRU C1-3	CONSTRUCTION SAFETY & PHASING PLAN
32-0001	GENERAL NOTES
32-0002	RETAINING WALL ENVELOPE (1 OF 3)
32-0003	RETAINING WALL ENVELOPE (2 OF 3)
32-0004	RETAINING WALL ENVELOPE (3 OF 3)
32-0005	MISCELLANEOUS DETAILS
4949A	GEORGIA DEPARTMENT OF TRANSPORTATION SPECIAL DETAIL

NOTABLE CONTACTS

OWNER:	AIRPORT MANAGER:
MACON-BIBB COUNTY, GA MACON, GA 31202 UNITED STATES PHONE: (478)-788-3760	DOUG FAOUR 1000 TERMINAL DR MACON, GA 31297 UNITED STATES TELEPHONE: (478) 803-0460

AIRFIELD COMMUNICATIONS

CTAF:	128.2 MHz
UNICOM:	122.95 MHz
WX ASOS:	120.775 MHz (478-784-8825)
MACON GROUND:	121.65
MACON TOWER:	128.2



PASSERO ASSOCIATES

Engineering Architecture
www.passero.com

Stamp:

Client:

Macon-Bibb County



**Middle Georgia Regional Airport
Macon-Bibb County, Georgia**

Passero Associates

4730 Casa Cola Way, Suite 200 (904) 757-6106
Saint Augustine, FL 32095 Fax: (904) 757-6107

Revisions

No.	Date	By	Description

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INDEX OF SHEETS & BID QUANTITIES

**RUNWAY 5-23
EXTENSION - PACKAGE 1
RETAINING WALL,
PHASE 1**

Town/City: Macon
County: Bibb State: Georgia

Project No.
20202946.0009

Drawing No.
G1-2

Date
September 2022

CONTRACTOR'S SAFETY AND SECURITY REQUIREMENTS

SAFETY NOTES:

1. AIRPORT OPERATIONS - THE CONTRACTOR SHALL ACQUAINT ALL SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THE AIRPORT AND SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY SPECIFIED IN NOTES 10 & 13 BELOW.

2. VEHICLE IDENTIFICATION - ALL CONTRACTOR CONSTRUCTION EQUIPMENT AUTHORIZED TO OPERATE ON THE AIRPORT SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' X 3' OR LARGER ORANGE AND WHITE CHECKERED FLAG, EACH CHECK BEING 1' SQUARE. ALL VEHICLES OPERATING IN THE ACTIVE AIRPORT OPERATIONS AREA DURING THE HOURS OF DARKNESS SHALL BE EQUIPPED WITH A FLASHING/ROTATING AMBER (YELLOW) DOME-TYPE LIGHT MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES.

3. RUNWAY/TAXIWAY CLOSURES - PLACE TEMPORARY LIGHTED CLOSED RUNWAY "X" OVER RUNWAY NUMERAL FOR ANY RUNWAY CLOSURE. IF "LAYDOWN X'S" ARE ALLOWED FOR RUNWAY OR TAXIWAY CLOSURES, THEY SHALL MEET THE REQUIREMENTS OF M-100 (COORDINATE WITH THE AIRPORT OPERATOR). SEE PHASING & SAFETY PLAN & TECHNICAL SPECIFICATION ITEM M-100 FOR FURTHER INFORMATION.

4. THE CONTRACTOR SHALL NOT ENTER THE RUNWAY SAFETY AREA WITHOUT A FULL RUNWAY CLOSURE VIA CLOSURE MARKERS AND NOTICE TO AIRMEN (NOTAM). AS WELL AS, THE CONTRACTOR SHALL NOT PLACE EQUIPMENT, MATERIAL, OR STOCKPILES IN THE RUNWAY OBJECT FREE AREA.

MIDDLE GEORGIA REGIONAL AIRPORT (MCN) - RUNWAY 5/23 (ADG D-III)
 -RUNWAY SAFETY AREA (RSA) 250 LINEAR FEET FROM CENTERLINE OF RUNWAY
 -RUNWAY OBJECT FREE AREA (ROFA) 400 LINEAR FEET FROM CENTERLINE OF RUNWAY
 -LENGTH BEYOND RUNWAY END 500 LINEAR FEET FROM THE RUNWAY END

MIDDLE GEORGIA REGIONAL AIRPORT (MCN) - RUNWAY 14/32 (ADG B-III)
 -RUNWAY SAFETY AREA (RSA) 75 LINEAR FEET FROM CENTERLINE OF RUNWAY
 -RUNWAY OBJECT FREE AREA (ROFA) 250 LINEAR FEET FROM CENTERLINE OF RUNWAY
 -LENGTH BEYOND RUNWAY END 300 LINEAR FEET FROM THE RUNWAY END

5. TRENCH MARKING - OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS LOCATED IN THE AIRPORT OPERATIONS AREA SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHTED BY APPROVED LIGHT UNITS DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS.

6. OPEN FLAME - OPEN FLAME, WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED BY FIRE INSPECTOR, AIRPORT MANAGER AND THE ENGINEER. NO DEBRIS BURNING IS ALLOWED.

7. STOCKPILE EROSION AND DUST CONTROL - STOCKPILED MATERIAL AND OPEN EXCAVATIONS SHALL BE TREATED IN SUCH A MANNER AS TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND.

8. DEBRIS CONTROL - DEBRIS, WASTE AND LOOSE MATERIAL SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS. IF OBSERVED TO BE ON ACTIVE AIRCRAFT MOVEMENT AREAS, THE MATERIAL WILL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE ENGINEER MAY DIRECT THAT DEBRIS PROBLEMS DURING CONSTRUCTION NOT CORRECTED BY THE CONTRACTOR BE CORRECTED BY OTHERS AT THE EXPENSE OF THE CONTRACTOR. NO OPEN TOP DUMPSTERS ARE ALLOWED IN THE PROJECT OR STAGING AREA. TRUCKS SHALL COVER THE LOAD FOR ALL MOVEMENTS ON THE AIRPORT.

9. INSPECTION BY OPERATIONS - PRIOR TO OPENING FOR AIRCRAFT USE, THE CONTRACTOR SHALL ARRANGE FOR INSPECTION BY THE ENGINEER AND AIRPORT MANAGER ANY RUNWAY, TAXIWAY OR APRON THAT HAS BEEN CLOSED FOR WORK, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR.

10. SAFETY GUIDELINES:
 150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"

150/5200-18C "AIRPORT SAFETY SELF-INSPECTION"

150/5210-5D "PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AIRPORT"

11. LIGHTED AIRPORT LOW PROFILE BARRICADES ARE REQUIRED AS NOTED ANYTIME THE CONTRACTOR IS WORKING.

12. AT THE END OF THE WORK DAY, CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM WORK AREA BACK TO THE CONTRACTOR STAGING AREA OR TO SUCH OTHER LOCATIONS AS APPROVED BY THE ENGINEER.

13. IN COMPLIANCE WITH AC 150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION," THE CONTRACTOR DESIGNATED PERSONNEL SHALL HAVE AND MONITOR A RADIO FOR TWO-WAY COMMUNICATION WITH THE AIR TRAFFIC CONTROL TOWER AT ALL TIMES. THE MIDDLE GEORGIA REGIONAL AIRPORT RADIO GROUND FREQUENCY IS 121.65 (8 AM - 8 PM).

SECURITY NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE ENGINEER THE NAME OF HIS/HER "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.

2. CONTRACTOR PERSONNEL SECURITY ORIENTATION - THE CONTRACTOR SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY THE ENGINEER OR OWNER. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.

3. ACCESS TO THE SITE - CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG THE ACCESS ROAD AS A RESULT OF HIS/HER CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE AS DIRECTED BY THE ENGINEER.

4. MATERIALS DELIVERY TO THE SITE - ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE WILL USE THE ACCESS POINT AT THE CONTRACTOR'S STAGING SITE. THE CONTRACTOR SHALL PROVIDE ESCORT SERVICES TO DIRECT DELIVERIES.

5. CONSTRUCTION AREA LIMITS - THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, SIGNAGE AND WARNING DEVICES VISIBLE FOR BOTH DAY/NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.

6. CONTRACTOR EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S STAGING AREA OR CONTRACTOR EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

7. REQUIREMENTS FOR BADGING - BADGING OF CONTRACTOR PERSONNEL WILL BE REQUIRED FOR THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BADGING WITH THE AIRPORT AUTHORITY AND TO START THE PROCESS EARLY ENOUGH TO AVOID DELAYING MOBILIZATION TO THE SITE.

8. THE CONTRACTOR SHALL INSTALL A 3' X 3' SIGN AT THE CONSTRUCTION SITE ENTRANCE GATE THAT SAYS: "THIS AREA IS A DESIGNATED CONSTRUCTION SITE AND ANYONE WHO TRESPASSES ON THIS PROPERTY COMMITS A FELONY."

9. VEHICLE & PEDESTRIAN DEVIATIONS AND RUNWAY INCURSIONS DOCUMENTED BY THE TOWER WILL RESULT IN FAA FINES. THE COST OF THESE FINES SHALL BE BORNE BY THE CONTRACTOR UP TO A MAXIMUM AMOUNT OF \$10,000 PER INCIDENT.

BARRICADE NOTES:

1. TYPICAL LIGHTED AIRPORT LOW PROFILE BARRICADES TO BE PLACED ALONG THE LIMITS OF THE PHASES OF WORK, AS SHOWN IN THESE PLANS, TO DELINEATE THE CONTRACTOR'S WORK AREAS.

2. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED WHEN DEEMED APPROPRIATE BY THE ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY.

3. ALL BARRICADES SHALL BE MOVED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP THE DEBRIS WHICH HAS ACCUMULATED AND REMOVE IT FROM THE SITE. THE BARRICADES SHALL THEN BE REPLACED AT THE APPROPRIATE LOCATION.

4. BARRICADES SHALL BE SPACED 8' MAXIMUM, END TO END, OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

1. UNDERGROUND UTILITY LAYOUT INFORMATION WAS COMPILED FROM AS-BUILT INFORMATION AND EXISTING RECORD PLANS AND IS OFFERED SOLELY FOR THE PURPOSE OF PROVIDING THE CONTRACTOR WITH DATA AVAILABLE TO THE ENGINEER. THE ACTUAL LOCATIONS IN THE FIELD MAY BE DIFFERENT FROM THAT SHOWN. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND AIRPORT CABLES IN FIELD PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES. IN THE EVENT OF DAMAGE TO EXISTING ELECTRICAL CABLES AND UTILITIES, THE ENGINEER AND AIRPORT MANAGER ARE TO BE NOTIFIED IMMEDIATELY AND THE CONTRACTOR SHALL REPAIR THE DAMAGE, AS DIRECTED BY THE ENGINEER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE. ALL DAMAGED CABLES, WILL BE REPLACED TO THE NEAREST LIGHTING FIXTURES. NO FIELD SPLICES WILL BE PERMITTED.

3. PROPERTY LINES, RIGHT-OF-WAY LINES, AND OWNER NAMES SHOWN ON THE PLANS ARE TAKEN FROM RECORD MAPS.

4. CONTRACTOR'S ACCESS TO THE AIRPORT SHALL BE LIMITED TO THE ACCESS ROADS SHOWN ON THIS PLAN, THE CONTRACTOR, UPON COMPLETION OF THIS CONTRACT, SHALL REPAIR ANY DAMAGE TO ACCESS ROADS, GATES OR FENCES. ALL EXISTING PAVEMENTS AND DISTURBED GROUND SHALL BE RESTORED TO EXISTING CONDITION OR BETTER AT NO COST TO THE OWNER. ONLY ACTIVE AIRCRAFT PAVEMENTS MARKED ON THIS PLAN MAY BE USED FOR CONTRACTOR ACCESS. CONTRACTOR SHALL MINIMIZE PAVEMENT CROSSINGS AND SHALL CLEAN AND SWEEP ACTIVE AIRCRAFT PAVEMENT AS OFTEN AS NECESSARY, AS ORDERED BY OWNER / ENGINEER, TO KEEP PAVEMENT FREE OF DEBRIS. UTILIZED VEHICLE ROADS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.

5. ALL AREAS DISTURBED SHALL BE FINE GRADED, TOPSOILED, AND SEEDED AND MULCHED. FINE GRADING SHALL BE SHAPED TO ALLOW SURFACE DRAINAGE AND CONFORM TO SMOOTH TRANSITIONS WITH SURROUNDING GRADE.

6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE PROJECT AND FOR ACCESS TO THE SITE. COST FOR PERMITS TO BE PAID AS PART OF MOBILIZATION.

7. ALL COSTS ASSOCIATED WITH MAINTENANCE OF HAUL ROADS, ACCESS ROADS, RESTORATION OF SURFACES DISTURBED AND ALL BARRICADES AND TEMPORARY AIRPORT MARKINGS SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE & PROTECTION OF TRAFFIC.

8. THE CONTRACTOR'S SPECIAL ATTENTION IS DIRECTED TO AC 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, AND THE CONTRACT SPECIAL PROVISIONS SECTION 80, AS THEY RELATE TO SAFETY REQUIREMENTS AND AFFECT SEQUENCING OF WORK.

9. ANY IRON PINS, CONCRETE MONUMENTS, SURVEY MONUMENTS, OR OTHER ITEMS DEFINING PROPERTY LINES OR BASELINES WHICH ARE DISTURBED SHALL BE PROPERLY TIED AND ACCURATELY RESET UPON COMPLETION OF WORK BY THE CONTRACTOR AT NO COST TO THE OWNER.

10. ELEVATIONS ARE BASED ON U.S.C. & G.S. DATUM. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THESE SITE BENCH MARKS OR MOVING THEM IF THEY ARE IN THE LINE OF CONSTRUCTION.

11. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE ENGINEER.

12. SITE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY MAINTAINING THE CONSTRUCTION SITE THROUGHOUT THE PERIOD OF CONSTRUCTION.

14. THE CONTRACTOR SHALL NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING OR UNATTENDED.

15. THE CONTRACTOR SHALL KEEP EQUIPMENT NOT NECESSARY FOR THEIR OPERATIONS OUT OF THE EXISTING TERMINAL AND AIR OPERATIONS AREA.

16. ALL WORK IS INCLUDED UNDER BASE BID UNLESS SPECIFICALLY LABELED OTHERWISE.

17. GATES WITH LOCKS WILL BE MAINTAINED AT CONTRACTOR ACCESS ROUTES. NO ACCESS WILL BE PERMITTED BY ANYONE OTHER THAN AIRPORT EMPLOYEES, CONTRACTOR'S EMPLOYEES AND EQUIPMENT INCLUDING DELIVERIES, AND THE RESIDENT ENGINEER. NO OPEN GATES WILL BE LEFT UNATTENDED.

18. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.

19. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.

20. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ENGINEER.

21. THE CONTRACTOR SHALL:

A. VERIFY ALL CONDITIONS IN THE FIELD FOUND PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES.

B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.

C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.

D. HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR OR HIS SUB CONSULTANTS ON THE SITE.

22. CONTRACTOR PROJECT CLOSE-OUT REQUIREMENTS:

A. THE CONTRACTOR SHALL FULFILL THE REQUIREMENTS AND COMPLETE THE "CONTRACTOR'S PROJECT CLOSEOUT CHECKLIST", INCLUDED IN THE CONTRACT DOCUMENTS, BEFORE FINAL PAYMENT WILL BE ISSUED. THE FINAL 10% OWED TO THE CONTRACTOR (INCLUDING ANY RETAINAGE) WILL NOT BE RELEASED UNTIL ALL CLOSEOUT CONTRACT DOCUMENTS HAVE BEEN SUBMITTED & APPROVED.

B. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS FOR THE COMPLETION AND CLOSE-OUT OF THE PROJECT CONSTRUCTION.

C. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER OF RECORD WITH COPIES OF RECORD LOGS, TEST RESULTS, AND SUPPORTING DOCUMENTATION WITHIN 30 DAYS OF THE COMPLETION OF WORK.

D. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER AND THE ENGINEER OF RECORD A MINIMUM OF THREE (3) DAYS NOTICE PRIOR TO THE SCHEDULED SITE WALK THROUGH.



PASSERO ASSOCIATES

Engineering Architecture
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Stamp:

Client:

Macon-Bibb County



**Middle Georgia Regional Airport
 Macon-Bibb County, Georgia**

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SAFETY, SECURITY & GENERAL NOTES

**RUNWAY 5-23
 EXTENSION - PACKAGE 1
 RETAINING WALL,
 PHASE 1**

Town/City: Macon
 County: Bibb State: Georgia

Project No.
20202946.0009

Drawing No.
G1-3

Date
September 2022



- 1. COORDINATION**
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 - 1.2 ADDRESSES NECESSARY ACTIONS WHEN CHANGES ARE PROPOSED TO CSPP _____
 - 1.3 PROVISIONS FOR FAA ATO COORDINATION _____
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 - 2.1 PHASE ELEMENTS _____
 - 2.2 CONSTRUCTION SAFETY DRAWINGS _____
- 3. AREAS AND OPERATIONS AFFECTED BY CONSTRUCTION ACTIVITIES**
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 - 3.2 MITIGATION AFFECTS _____
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- 6. WILDLIFE MANAGEMENT**
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 - 6.2 STANDING WATER _____
 - 6.3 TALL GRASS _____
 - 6.4 FENCING AND GATES _____
 - 6.5 DISRUPTION OF WILDLIFE HABITAT _____
- 7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT**
 - 7.1 FOD CONTROL MEASURES _____
- 8. HAZARDOUS MATERIAL MANAGEMENT**
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- 9. NOTIFICATION OF CONSTRUCTION ACTIVITIES**
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 - 9.2 NOTAMS _____
 - 9.3 EMERGENCY NOTIFICATION PROCEDURES _____
 - 9.4 COORDINATION WITH ARFF _____
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- 12. PENALTIES**
 - 12.1 PENALTY PROVISIONS FOR NONCOMPLIANCE WITH SAFETY PLAN PROVISIONS _____
- 13. SPECIAL CONDITIONS**
 - 13.1 UNIQUE CONDITIONS THAT MAY AFFECT THE OPERATION OF THE AIRPORT _____
- 14. RUNWAY AND TAXIWAY VISUAL AIDS**
 - 14.1 GENERAL - CONVEY CLEAR MEANING; SECURED FROM MOVEMENT; FRANGIBLE _____
 - 14.2 MARKINGS _____
 - 14.3 LIGHTING AND VISUAL NAVAIDS _____
 - 14.4 SIGNAGE _____
- 15. ACCESS ROUTES - MARKING AND SIGNAGE**
 - 15.1 HAUL ROAD DEMARCATION _____
- 16. HAZARD MARKING, LIGHTING AND SIGNAGE**
 - 16.1 AREAS IMPACTED BY CONSTRUCTION OPERATIONS _____
 - 16.2 EQUIPMENT _____
- 17. PROTECTION RUNWAY AND TAXIWAY AREAS, ZONES AND SURFACES**
 - 17.1 RUNWAY SAFETY AREA (RSA) _____
 - 17.2 RUNWAY OBJECT FREE AREA (ROFA) _____

AT ANY TIME DURING CONSTRUCTION.

 - 17.3 TAXIWAY SAFETY AREA (TSA) _____
 - 17.4 TAXIWAY OBJECT FREE ZONE (TOFA) _____
 - 17.5 OBSTACLE FREE ZONE (OFZ) _____
 - 17.6 APPROACH AND DEPARTURE SURFACES _____
- 18. OTHER LIMITATIONS ON CONSTRUCTION**
 - 18.1 PROHIBITIONS _____
 - 18.2 RESTRICTIONS _____

BI-WEEKLY PERIODIC PROGRESS MEETINGS TO BE HELD ON SITE.
 ALL PROPOSED CHANGES TO THE CONSTRUCTION SAFETY AND PHASING PLAN SHALL BE APPROVED BY .
 7460-1 FILED AND FAA DETERMINATION TO BE RECEIVED PRIOR TO CONSTRUCTION. NOTICE TO AIRMEN (NOTAM).

CONSTRUCTION IS COMPRISED OF ONE SINGLE PHASE ACROSS 240 CALENDAR DAYS.
 INCLUDED IN PLANS. SEE SHEET XX-XX

RUNWAY 5/23 AND TAXIWAY B SHALL BE CLOSED FOR THE ENTIRE DURATION OF CONSTRUCTION.
 NOTAM TO BE ISSUED BY AIRPORT MANAGEMENT PRIOR TO START OF CONSTRUCTION.

RUNWAY 5/23 NAVIGATIONAL AIDS SHALL BE DISCONNECTED FOR THE ENTIRE DURATION OF CONSTRUCTION. THIS
 ENTAILS MEDIUM INTENSITY APPROACH LIGHTING SYSTEM (MALS), LOCALIZER, GLIDE-SLOPE, .

TO BE LOCATED IN THE CONTRACTOR STAGING AREA AS SHOWN ON THE PLANS.
 ALL VEHICLES MUST BE LIGHTED. PEDESTRIANS ARE TO REMAIN IN DESIGNATED WORK AREA. PEDESTRIANS AND
 VEHICLES ARE TO YIELD TO ANY TRAFFIC WHEN THERE IS POTENTIAL FOR CONFLICT.

ALL WASTE TO BE REMOVED FROM AIRPORT PROPERTY.
 CONTRACTOR SHALL ADDRESS STANDING WATER AS NECESSARY TO DETER WILDLIFE.
 CONTRACTOR SHALL ADDRESS TALL GRASS AS NECESSARY TO DETER WILDLIFE.
 MEANS OF EGRESS FOR CONSTRUCTION PERSONNEL SHALL BE LIMITED TO GATE 26 AS SHOWN ON THE PLANS.
 N/A.

CONTRACTOR TO SWEEP OR BLOW AIRCRAFT MOVEMENT AREAS DAILY.

NO HAZARDOUS MATERIALS SHALL BE BROUGHT ONTO AIRPORT PROPERTY.

CONTRACTOR WILL HAVE LIST OF RESPONSIBLE REPRESENTATIVES.
 WILL BE ISSUED BY AIRPORT MANAGER; CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AT LEAST 72 HOURS PRIOR TO
 THE START OF CONSTRUCTION IN THE AFFECTED WORK AREA.
 IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911 BEFORE NOTIFYING THE AIRPORT OR ENGINEER.
 MEETINGS WITH ARFF REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
 NOTIFY THE FAA FOR CONSTRUCTION AFFECTING CFR PART 77 NAVIGABLE AIRSPACE, CFR PART 157 CONSTRUCTION
 ALTERATION, ACTIVATION, AND DEACTIVATION OF AIRPORT, OR NAVAID IMPACTS.

TO BE PERFORMED BEFORE AND AFTER EACH WORKING DAY.
 TO BE PERFORMED BY THE AIRPORT, ENGINEER, & GDOT REPRESENTATIVE AFTER PROJECT COMPLETION.

CONTRACTOR SHALL CALL GEORGIA 811 TO LOCATE ANY KNOWN UTILITIES BEFORE PENETRATING ANY GROUND
 SURFACE.

A FINE WILL BE ISSUED AND IS TO BE PAID BY THE PRIME CONTRACTOR FOR EACH INCIDENCE RECORDED BY THE
 TOWER.

RUNWAY 5/23 AND TAXIWAY B SHALL BE CLOSED FOR THE ENTIRE DURATION OF CONSTRUCTION.

N/A
 TEMPORARY AND/OR PERMANENT PAVEMENT MARKINGS TO BE INSTALLED.
 SHUT OFF DURING CONSTRUCTION
 RUNWAY 5/23 AND TAXIWAY B AIRFIELD GUIDANCE SIGNS SHALL BE DEACTIVATED PRIOR TO THE START OF
 CONSTRUCTION.

HAUL ROUTE SHOWN IN THE PLANS (AIRPORT ROAD).

NOTAM OF AFFECTED AREA TO BE ISSUED PRIOR TO THE START OF CONSTRUCTION.
 LOW-PROFILE AIRPORT BARRICADES, CLOSED RUNWAY MARKERS TO BE INSTALLED AS SHOWN ON THE PLANS.

CONTRACTOR SHALL NOT ENTER THE RUNWAY 14/32 RUNWAY SAFETY AREA AT ANY TIME DURING CONSTRUCTION.
 CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT INSIDE THE RUNWAY 14/32 RUNWAY OBJECT FREE AREA

CONTRACTOR SHALL NOT IMPEDE ON TSA WITHOUT AN ACTIVE NOTAM
 CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT INSIDE TOFA
 CONTRACTOR SHALL NOT IMPEDE THE OFZ WITHOUT AN ACTIVE NOTAM
 CONTRACTOR SHALL NOT IMPEDE APPROACH OR DEPARTURE SURFACES WITHOUT AN ACTIVE NOTAM.

NO USE OF TALL EQUIPMENT GREATER THAN 20 LINEAR FEET IN HEIGHT (CONCRETE PUMP, ETC.) ON PROJECT SITE
 UNLESS A 7460-1 DETERMINATION LETTER ISSUES FOR SUCH EQUIPMENT. NO USES OF OPEN FLAMES, WELDING, OR
 TORCHES UNLESS FIRE SAFETY PRECAUTIONS ARE PROVIDED AND THE AIRPORT MANAGER HAS APPROVED THEIR
 USE. NO USE OF ELECTRICAL BLASTING CAPS WITHIN 1,000 FEET OF AIRPORT PROPERTY. NO USE OF FLARE POTS
 WITHIN THE AOA.
 MOVEMENT ABOUT THE AIRFIELD IS LIMITED TO THE AREAS SHOWN ON THE PLANS. CONTRACTOR SHALL BE P

AIRFIELD RADIO FREQUENCY

CTAF: 128.2 MHz
 UNICOM: 122.7 MHz

MACON GROUND: 121.65 MHz
 (8AM LOCAL TIME - 8PM LOCAL TIME)

MACON TOWER: 128.2 MHz
 (8AM LOCAL TIME - 8PM LOCAL TIME)

NOTABLE CONTACTS

DOUG FAOUR,
 AIRPORT MANAGER
 TELEPHONE: (478) 803-0460
 EMAIL: XXXX@XXXX

JOHNSON "BUCK" COLLINS,
 AIRPORT MAINTENANCE SUPERVISOR
 TELEPHONE: (XXX) XXX-XXXX
 EMAIL: XXXX@XXXX

EMERGENCY CONTACTS

IN THE EVENT OF AN EMERGENCY DIAL 911

POLICE:

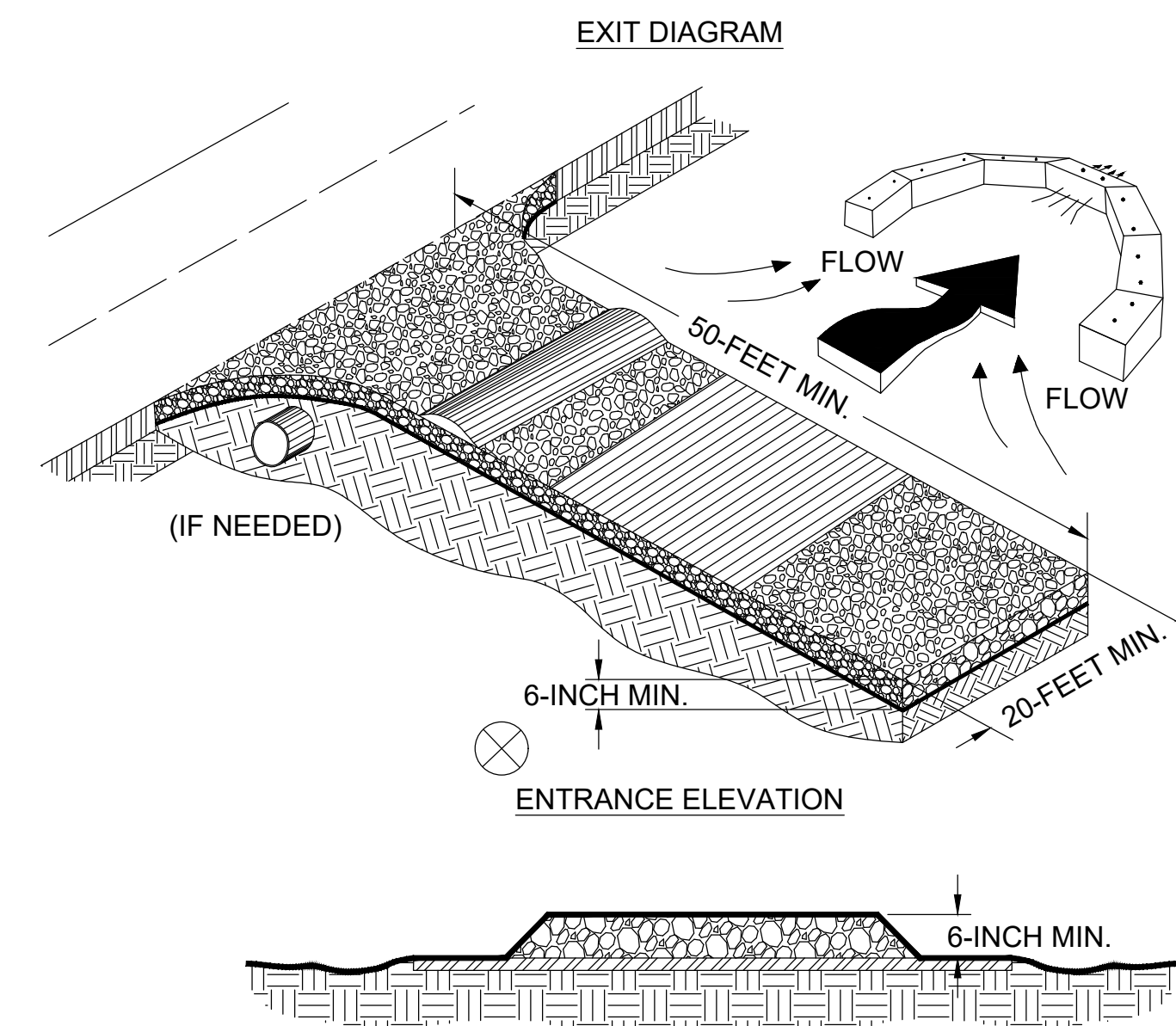
BIBB COUNTY SHERIFF'S DEPARTMENT
 DISTRICT 2
 2654 HOUSTON AVENUE
 MACON, GEORGIA 31206
 TELEPHONE: (478) 751-9171

FIRE:

FIRE STATION 107
 3410 JONES ROAD
 MACON, GEORGIA 31216
 TELEPHONE: (478) 784-8780

MEDICAL:

PIEDMONT MACON
 350 HOSPITAL DRIVE
 MACON, GEORGIA 31217
 TELEPHONE: (478) 765-7000



NOTES:

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

1
 1-2

CRUSHED STONE CONSTRUCTION ENTRANCE/EXIT
 DETAIL - NOT TO SCALE



SUBMITTAL TITLE:
 SCHEMATIC DESIGN
 ENGINEER OF RECORD:

OWNER:
**MACON-BIBB COUNTY
 CONSOLIDATED
 GOVERNMENT**



700 POPLAR STREET
 MACON, GEORGIA
 31201

PASSERO ASSOCIATES
 4730 CASA COLA WAY, SUITE 200
 ST. AUGUSTINE, FL 32095
 TELEPHONE: (904) 757-6106
 WWW.PASSERO.COM

REVISIONS		
NO.	DATE	DESCRIPTION OF REVISION

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LOCATION:
**MIDDLE GEORGIA
 REGIONAL AIRPORT
 (MCN)**

CITY: MACON STATE: GEORGIA
 COUNTY: BIBB COUNTRY: U.S.A.

PROJECT TITLE:
**RUNWAY 5 EXTENSION
 PHASE 1,
 RETAINING WALL**

PROJECT NUMBER:
 20202946.0009

DATE: SEPT. 2022

DRAWING TITLE:
**CONSTRUCTION
 SAFETY AND
 PHASING PLAN**

DRAWING NUMBER:
C1-1



PASSERO ASSOCIATES

ENGINEERING PLANNING ARCHITECTURE

SUBMITTAL TITLE:
SCHEMATIC DESIGN

ENGINEER OF RECORD:

OWNER:
MACON-BIBB COUNTY
CONSOLIDATED
GOVERNMENT



700 POPLAR STREET
MACON, GEORGIA
31201

PASSERO ASSOCIATES
4730 CASA COLA WAY, SUITE 200
ST. AUGUSTINE, FL 32095
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REVISIONS
NO. DATE BY DESCRIPTION OF REVISION

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LOCATION:
MIDDLE GEORGIA
REGIONAL AIRPORT
(MCN)

CITY: MACON STATE: GEORGIA
COUNTY: BIBB COUNTRY: U.S.A.

PROJECT TITLE:
RUNWAY 5 EXTENSION
PHASE 1,
RETAINING WALL

PROJECT NUMBER:
20202946.0009

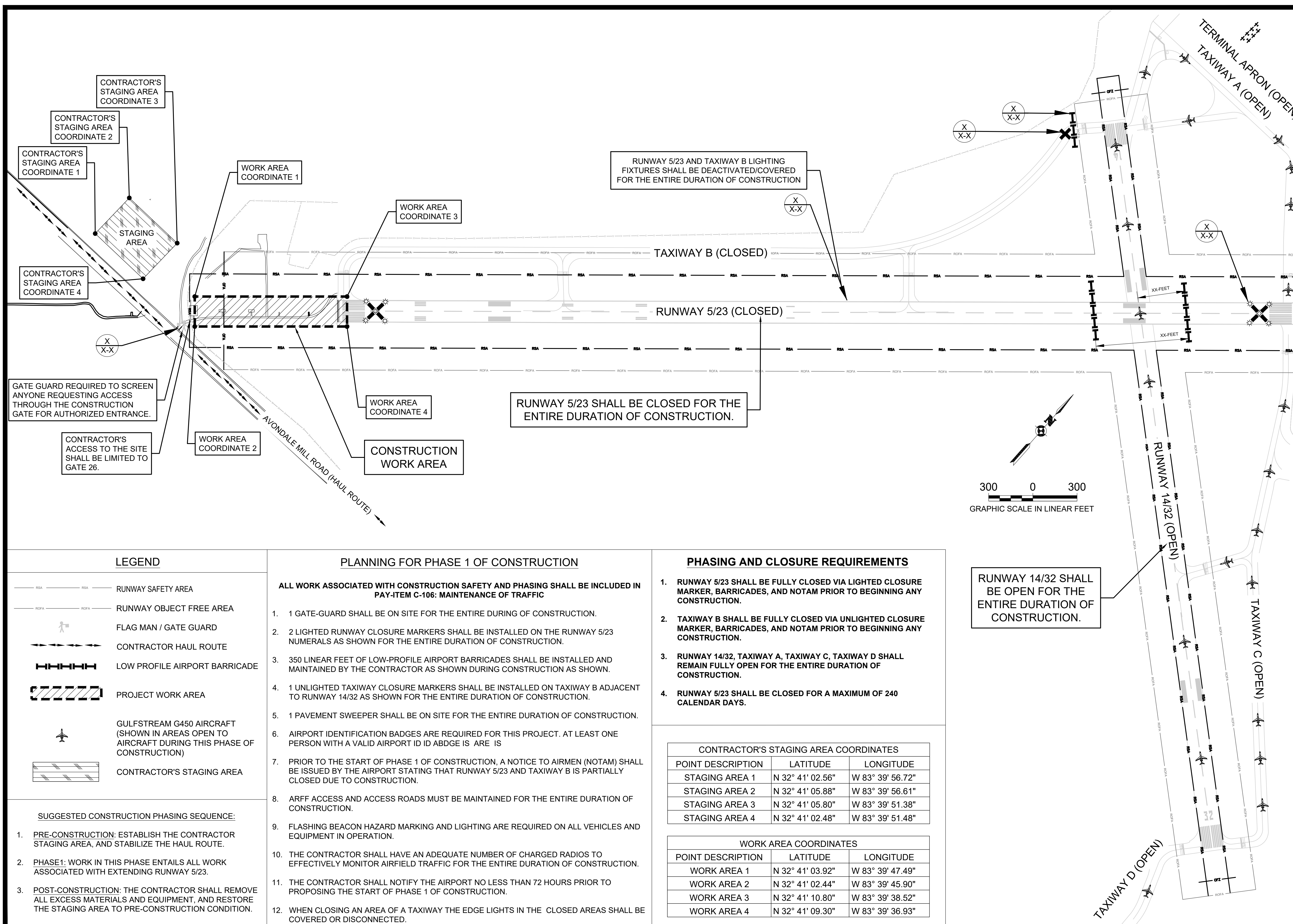
DATE: SEPT. 2022

DRAWING TITLE:

CONSTRUCTION
SAFETY AND
PHASING PLAN

DRAWING NUMBER:

C1-2



RUNWAY 5/23 AND TAXIWAY B LIGHTING
FIXTURES SHALL BE DEACTIVATED/COVERED
FOR THE ENTIRE DURATION OF CONSTRUCTION

TAXIWAY B (CLOSED)

RUNWAY 5/23 (CLOSED)

RUNWAY 5/23 SHALL BE CLOSED FOR THE
ENTIRE DURATION OF CONSTRUCTION.



RUNWAY 14/32 SHALL
BE OPEN FOR THE
ENTIRE DURATION OF
CONSTRUCTION.

LEGEND

- RSA ——— RSA ——— RUNWAY SAFETY AREA
- ROFA ——— ROFA ——— RUNWAY OBJECT FREE AREA
- FLAG MAN / GATE GUARD
- CONTRACTOR HAUL ROUTE
- LOW PROFILE AIRPORT BARRICADE
- PROJECT WORK AREA
- GULFSTREAM G450 AIRCRAFT (SHOWN IN AREAS OPEN TO AIRCRAFT DURING THIS PHASE OF CONSTRUCTION)
- CONTRACTOR'S STAGING AREA

PLANNING FOR PHASE 1 OF CONSTRUCTION

ALL WORK ASSOCIATED WITH CONSTRUCTION SAFETY AND PHASING SHALL BE INCLUDED IN PAY-ITEM C-106: MAINTENANCE OF TRAFFIC

1. 1 GATE-GUARD SHALL BE ON SITE FOR THE ENTIRE DURING OF CONSTRUCTION.
2. 2 LIGHTED RUNWAY CLOSURE MARKERS SHALL BE INSTALLED ON THE RUNWAY 5/23 NUMERALS AS SHOWN FOR THE ENTIRE DURATION OF CONSTRUCTION.
3. 350 LINEAR FEET OF LOW-PROFILE AIRPORT BARRICADES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AS SHOWN DURING CONSTRUCTION AS SHOWN.
4. 1 UNLIGHTED TAXIWAY CLOSURE MARKERS SHALL BE INSTALLED ON TAXIWAY B ADJACENT TO RUNWAY 14/32 AS SHOWN FOR THE ENTIRE DURATION OF CONSTRUCTION.
5. 1 PAVEMENT SWEEPER SHALL BE ON SITE FOR THE ENTIRE DURATION OF CONSTRUCTION.
6. AIRPORT IDENTIFICATION BADGES ARE REQUIRED FOR THIS PROJECT. AT LEAST ONE PERSON WITH A VALID AIRPORT ID ID ABDGE IS ARE IS
7. PRIOR TO THE START OF PHASE 1 OF CONSTRUCTION, A NOTICE TO AIRMEN (NOTAM) SHALL BE ISSUED BY THE AIRPORT STATING THAT RUNWAY 5/23 AND TAXIWAY B IS PARTIALLY CLOSED DUE TO CONSTRUCTION.
8. ARFF ACCESS AND ACCESS ROADS MUST BE MAINTAINED FOR THE ENTIRE DURATION OF CONSTRUCTION.
9. FLASHING BEACON HAZARD MARKING AND LIGHTING ARE REQUIRED ON ALL VEHICLES AND EQUIPMENT IN OPERATION.
10. THE CONTRACTOR SHALL HAVE AN ADEQUATE NUMBER OF CHARGED RADIOS TO EFFECTIVELY MONITOR AIRFIELD TRAFFIC FOR THE ENTIRE DURATION OF CONSTRUCTION.
11. THE CONTRACTOR SHALL NOTIFY THE AIRPORT NO LESS THAN 72 HOURS PRIOR TO PROPOSING THE START OF PHASE 1 OF CONSTRUCTION.
12. WHEN CLOSING AN AREA OF A TAXIWAY THE EDGE LIGHTS IN THE CLOSED AREAS SHALL BE COVERED OR DISCONNECTED.

PHASING AND CLOSURE REQUIREMENTS

1. RUNWAY 5/23 SHALL BE FULLY CLOSED VIA LIGHTED CLOSURE MARKER, BARRICADES, AND NOTAM PRIOR TO BEGINNING ANY CONSTRUCTION.
2. TAXIWAY B SHALL BE FULLY CLOSED VIA UNLIGHTED CLOSURE MARKER, BARRICADES, AND NOTAM PRIOR TO BEGINNING ANY CONSTRUCTION.
3. RUNWAY 14/32, TAXIWAY A, TAXIWAY C, TAXIWAY D SHALL REMAIN FULLY OPEN FOR THE ENTIRE DURATION OF CONSTRUCTION.
4. RUNWAY 5/23 SHALL BE CLOSED FOR A MAXIMUM OF 240 CALENDAR DAYS.

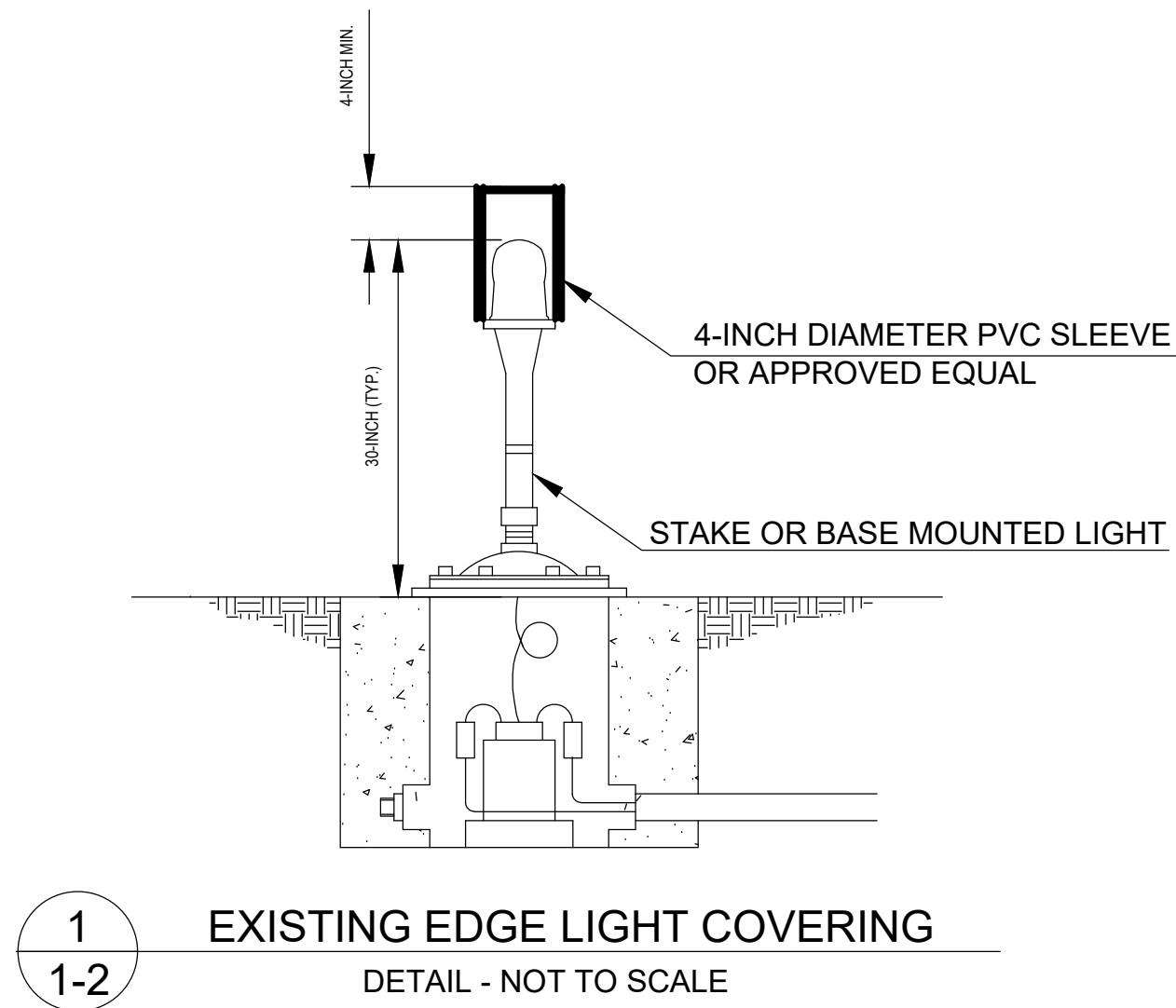
CONTRACTOR'S STAGING AREA COORDINATES		
POINT DESCRIPTION	LATITUDE	LONGITUDE
STAGING AREA 1	N 32° 41' 02.56"	W 83° 39' 56.72"
STAGING AREA 2	N 32° 41' 05.88"	W 83° 39' 56.61"
STAGING AREA 3	N 32° 41' 05.80"	W 83° 39' 51.38"
STAGING AREA 4	N 32° 41' 02.48"	W 83° 39' 51.48"

WORK AREA COORDINATES		
POINT DESCRIPTION	LATITUDE	LONGITUDE
WORK AREA 1	N 32° 41' 03.92"	W 83° 39' 47.49"
WORK AREA 2	N 32° 41' 02.44"	W 83° 39' 45.90"
WORK AREA 3	N 32° 41' 10.80"	W 83° 39' 38.52"
WORK AREA 4	N 32° 41' 09.30"	W 83° 39' 36.93"

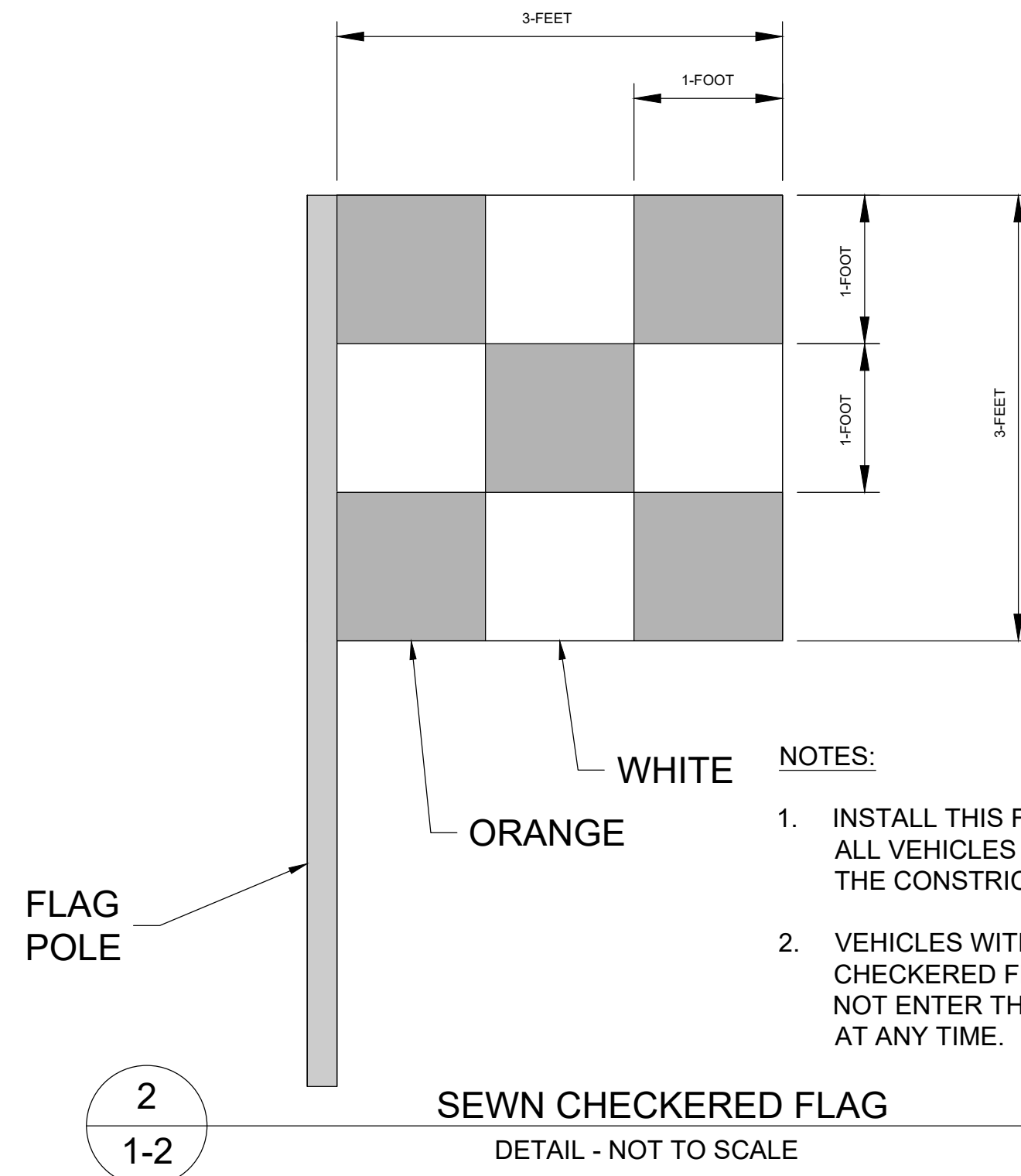
- SUGGESTED CONSTRUCTION PHASING SEQUENCE:
1. PRE-CONSTRUCTION: ESTABLISH THE CONTRACTOR STAGING AREA, AND STABILIZE THE HAUL ROUTE.
 2. PHASE 1: WORK IN THIS PHASE ENTAILS ALL WORK ASSOCIATED WITH EXTENDING RUNWAY 5/23.
 3. POST-CONSTRUCTION: THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS AND EQUIPMENT, AND RESTORE THE STAGING AREA TO PRE-CONSTRUCTION CONDITION.

NOTES:

1. SHUTTING OFF RUNWAY 5/23 AND TAXIWAY B ELECTRICAL CIRCUITS IS AN ACCEPTABLE ALTERNATIVE TO INSTALLING LIGHT COVERINGS.
2. THE CONTRACTOR SHALL NOT INSTALL PROTECTIVE COVERS WITHOUT THE APPROVAL OF THE RESIDENT PROJECT REPRESENTATIVE.
3. THE COST OF THE PVC CAPS IS TO BE INCLUDED UNDER ITEM C-107-4.1: MAINTENANCE OF TRAFFIC AND AIRFIELD SAFETY.
4. MAINTENANCE OF THE EXISTING TAXIWAY LIGHT COVERS SHALL BE THE SOLE RESPONSIBILITY OF THE PRIME CONTRACTOR.



1
EXISTING EDGE LIGHT COVERING
DETAIL - NOT TO SCALE



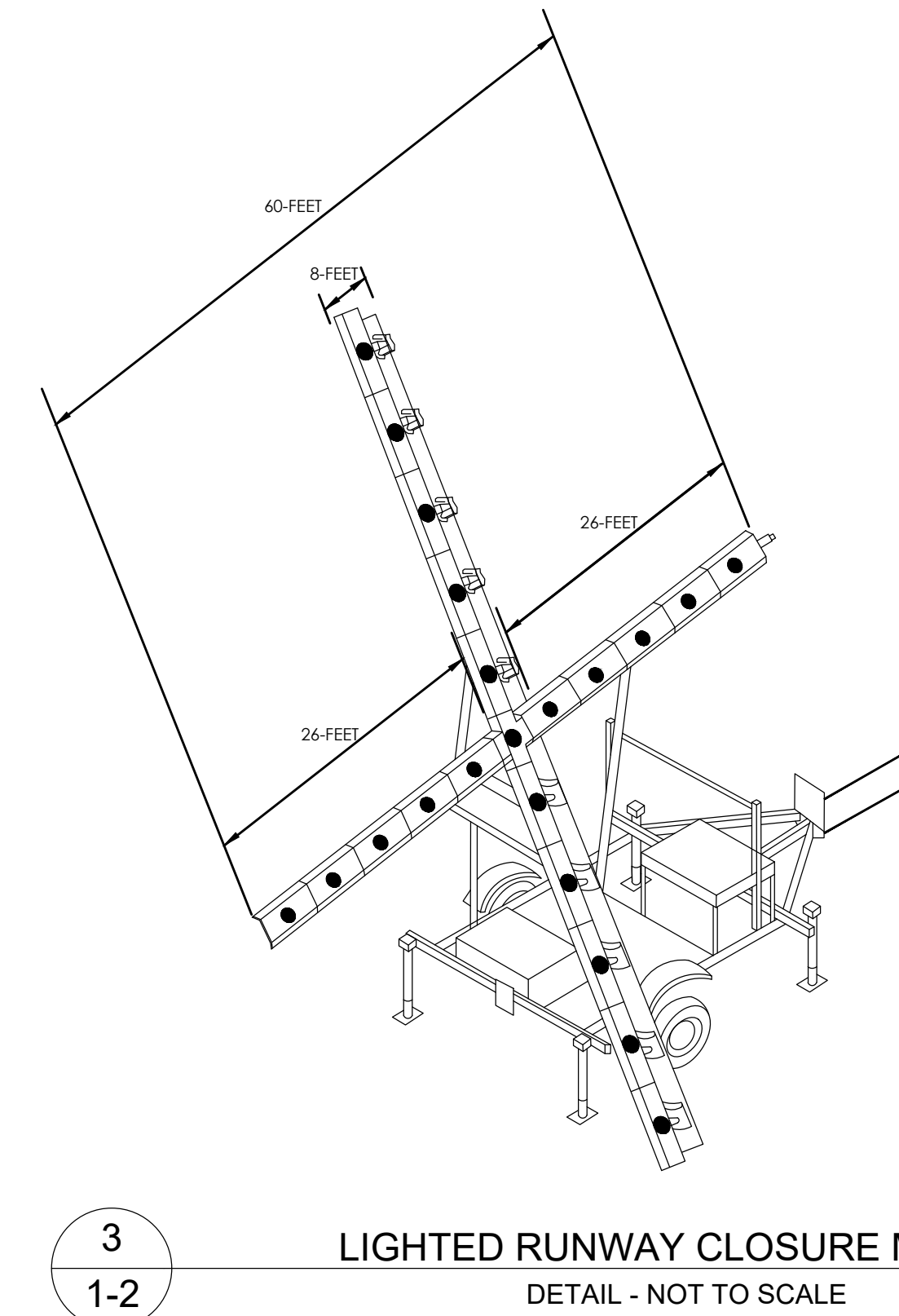
2
SEWN CHECKERED FLAG
DETAIL - NOT TO SCALE

NOTES:

1. INSTALL THIS FLAG ON ALL VEHICLES ENTERING THE CONSTRUCTION SITE.
2. VEHICLES WITHOUT A CHECKERED FLAG SHALL NOT ENTER THE AIRFIELD AT ANY TIME.

NOTES:

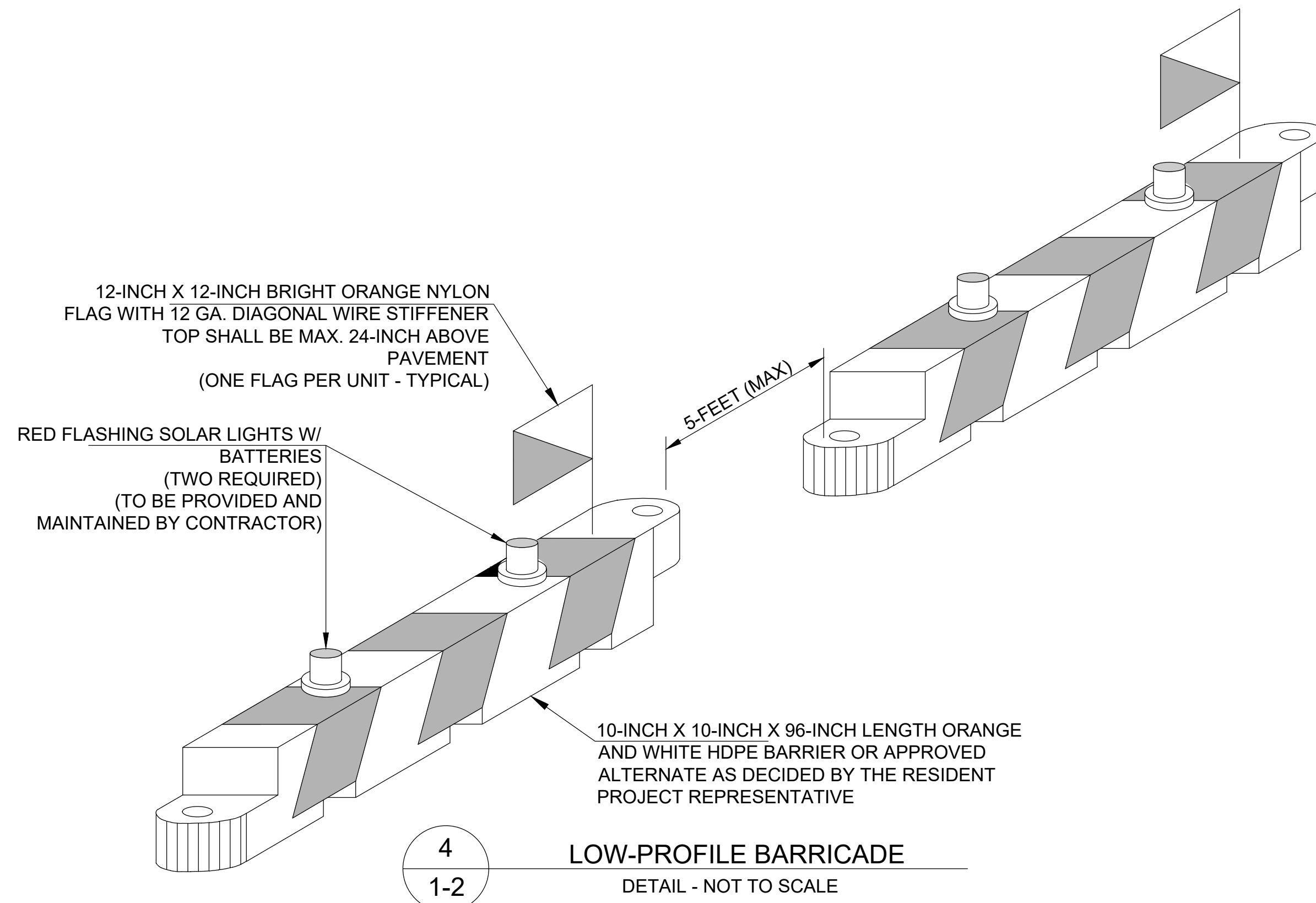
1. LIGHTED RUNWAY CLOSURE MARKERS SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR.
2. MARKER TO BE LOCATED ON TOP OF THE RUNWAY 5/23 NUMERALS FOR THE ENTIRE DURATION OF CONSTRUCTION.
3. CONTRACTOR SHALL REMOVE LIGHT BULBS WHILE TRANSPORTING FOR ANY DISTANCE GREATER THAN 1000 FEET.
4. CONTRACTOR SHALL REPLACE SOCKETS AND BULBS. ALL LIGHTS SHALL BE OPERATIONAL FOR THE LIGHTED RUNWAY CLOSURE MARKER TO BE CONSIDERED OPERATIONAL.
5. PRIME CONTRACTOR IS RESPONSIBLE FOR KEEPING LIGHTED RUNWAY CLOSURE MARKER FUELED AND OPERATIONAL.



3
LIGHTED RUNWAY CLOSURE MARKER
DETAIL - NOT TO SCALE

NOTES:

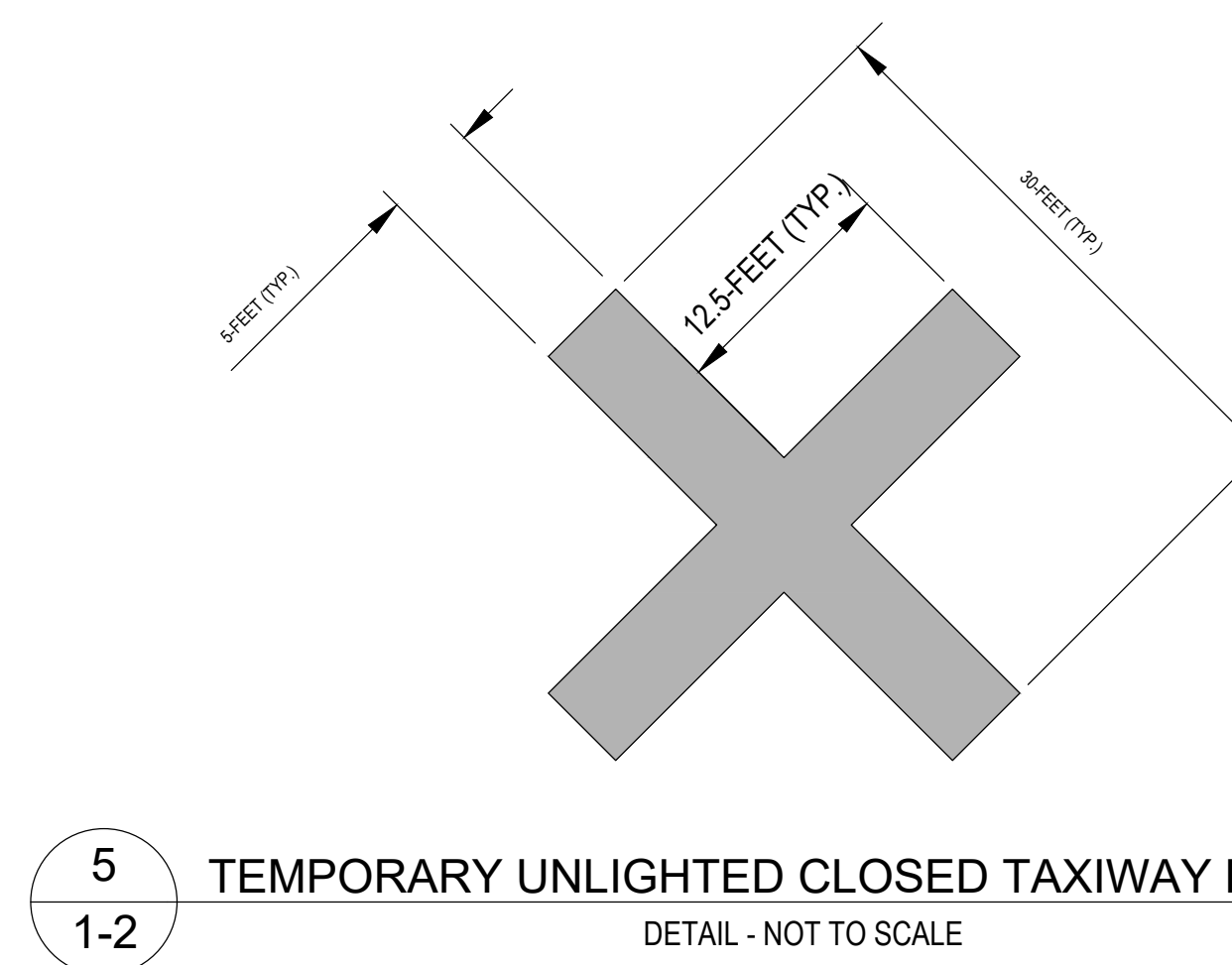
1. CONTRACTOR SHALL PROVIDE THE NECESSARY AMOUNT FOR NEW LOW PROFILE BARRICADES, PLACE, MAINTAIN AND REMOVE BARRICADES AS REQUIRED.
2. WATER BALLASTED LIGHTED SAFETY/CONSTRUCTION BARRICADES SHALL BE ORANGE AND WHITE ALTERNATED EACH 8 FEET LONG, AR10X96 HDPE SPN OR APPROVED EQUIVALENT. BARRICADES SHALL HAVE A MAXIMUM 5 FOOT SPACING BETWEEN THEM. ALL COST FOR MOVING, LIGHTS, FLAGS AND MAINTAINING BARRICADES SHALL BE INCLUDED IN PAY ITEM C-106: MAINTENANCE OF TRAFFIC AND AIRFIELD SAFETY.
3. CONTRACTOR TO ALSO FURNISH AND INSTALL SPECIFIED LIGHT FOR EACH BARRICADE. CONTRACTOR TO PLACE AND MAINTAIN BARRICADES AND LIGHTS IN ACCORDANCE WITH DETAILS, AND PER OWNER FOR DURATION OF CONTRACT.
4. REQUIRED BARRICADES ARE CONSIDERED INCIDENTAL TO THE PROJECT, AND SHALL BE INCLUDED IN PAY ITEM C-106 - MAINTENANCE OF TRAFFIC AND AIRFIELD SAFETY.
5. MAINTENANCE OF LOW-PROFILE BARRICADES SHALL BE THE SOLE RESPONSIBILITY OF THE PRIME CONTRACTOR FOR THE DURATION OF CONSTRUCTION.



4
LOW-PROFILE BARRICADE
DETAIL - NOT TO SCALE

NOTES:

1. TAXIWAY CLOSURE MARKERS SHALL BE BALLASTED WITH SAND BAGS OR APPROVED EQUAL.
2. MAINTAINING TAXIWAY CLOSURE MARKERS IS THE RESPONSIBILITY OF THE CONTRACTOR.



5
TEMPORARY UNLIGHTED CLOSED TAXIWAY MARKER
DETAIL - NOT TO SCALE



ENGINEERING PLANNING ARCHITECTURE

SUBMITTAL TITLE:
SCHEMATIC DESIGN

ENGINEER OF RECORD:

OWNER:
MACON-BIBB COUNTY
CONSOLIDATED
GOVERNMENT



700 POPLAR STREET
MACON, GEORGIA
31201

PASSERO ASSOCIATES
4730 CASA COLA WAY, SUITE 200
ST. AUGUSTINE, FL 32095
TELEPHONE: (904) 757-6106
WWW.PASSERO.COM

REVISIONS		
NO.	DATE	DESCRIPTION OF REVISION

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LOCATION:
MIDDLE GEORGIA
REGIONAL AIRPORT
(MCN)

CITY: MACON STATE: GEORGIA
COUNTY: BIBB COUNTY: U.S.A.

PROJECT TITLE:
RUNWAY 5 EXTENSION
PHASE 1,
RETAINING WALL

PROJECT NUMBER:
20202946.0009

DATE: SEPT. 2022

DRAWING TITLE:
**CONSTRUCTION
SAFETY AND
PHASING PLAN**

DRAWING NUMBER:
C1-3

GEORGIA STANDARDS

BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
 CONCRETE SIDE BARRIER TYPES 7-CS, 7-TS, AND 7-WS ----- GA. STD. 4949A (12-2017)
 CONCRETE BARRIER - TEMPORARY (END TREATMENT OPTIONS) ---- GA. STD. 4960 (5-2007)
 GUARDRAIL IMPACT ATTENUATOR UNITS ----- GA. DET. G-11 (7-2011)

DESIGN DATA

SPECIFICATIONS ----- AASHTO LRFD 8TH EDITION, 2017
 SOIL TYPE AND PROFILE ----- SITE CLASSIFICATION D
 CONCRETE ----- CLASS AA, $f'_c = 3,500$ PSI
 REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI
 RETAINED SOIL:
 COHESION ----- 50 PSF
 ANGLE OF INTERNAL FRICTION ----- 32°
 UNIT WEIGHT ----- 120 PCF
 FOUNDATION SOIL:
 COHESION ----- 100 PSF
 ANGLE OF INTERNAL FRICTION ----- 30°
 UNIT WEIGHT ----- 120 PCF

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.
 REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 3 INCHES CLEARANCE ON ALL FOOTING REINFORCING STEEL AND 2 INCHES COVER ON ALL STEM REINFORCING, UNLESS OTHERWISE NOTED. DO NOT INCLUDE FORMLINER THICKNESS IN MEASUREMENT OF MINIMUM CLEARANCE, IF PRESENT. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL FOOTING REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS.
 CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ INCH UNLESS OTHERWISE NOTED.
 SPECIAL SURFACE COATING - PROVIDE A SPECIAL SURFACE COATING TO ALL EXPOSED SURFACES OF THE WALL IN ACCORDANCE WITH SECTION 836 OF THE GEORGIA DOT SPECIFICATIONS. USE A COATING THAT MATCHES FEDERAL STANDARD COLOR NO. 36622. INCLUDE COST OF SPECIAL SURFACE COATING IN THE OVERALL BID SUBMITTED.
 GRAFFITI PROOF COATING - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.
 BACKFILL - PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACKFACE OF WALL.
 TEMPORARY SHORING - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.
 GEOCOMPOSITE WALL DRAIN - USE OF A GEOCOMPOSITE WALL DRAIN, SELECTED FROM THE GEORGIA DOT QUALIFIED PRODUCTS LIST, IS AN ACCEPTABLE SUBSTITUTE FOR THE SAND BLANKET SHOWN IN THE DRAINAGE DETAILS.
 WALL JOINTS - EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL STEM AND FOOTING. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0" AND EXTEND THROUGH THE WALL STEM ONLY.
 JOINTS IN WALL FORMS - SUPPORT JOINTS IN WALL FORMS WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.
 WATERSTOPS - ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL CONTAIN 6" PLAIN WATERSTOPS. ALL VERTICAL EXPANSION JOINTS SHALL CONTAIN A 6" BULB TYPE WATERSTOP.
 FOOTING EXCAVATION - EXCAVATE FOR SPREAD FOOTINGS WITH CARE TO PREVENT UNDERCUTTING UNLESS OTHERWISE NOTED IN PLANS. PLACE FOOTINGS ON UNDISTURBED SOIL.
 INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF JOINT FILLERS, WATERPROOFING, WALL DRAIN, GRAFFITI PROOF COATING AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.
 CONTRACTOR COORDINATION - CONTRACTOR SHALL COORDINATE WITH OWNER, PRIOR TO CONSTRUCTION, ON FINAL TEXTURE AND FINISH OF RETAINING WALLS TO ENSURE AN APPROVED APPEARANCE. COORDINATE WITH CIVIL PLANS FROM PASSERO ASSOCIATES FOR DETAILS AND PAYMENT OF SIDEWALK AND ROADWAY ITEMS REQUIRED TO BE RECONSTRUCTED AS PART OF THIS WORK.
 TEMPORARY CONSTRUCTION WORK - ALL TEMPORARY CONSTRUCTION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE CONTRACTOR'S CONSTRUCTION MEANS AND METHODS.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3810	2487	CY	CLASS AA CONCRETE, INCL REINF STEEL
641-4086	750	LF	CONCRETE SIDE BARRIER, TYPE 7WS
648-1550	2	EA	IMPACT ATTENUATOR UNIT, TYPE S-4-S-38

16:00 PM

8/31/2022

USER: t.sports

WALL NO. 1

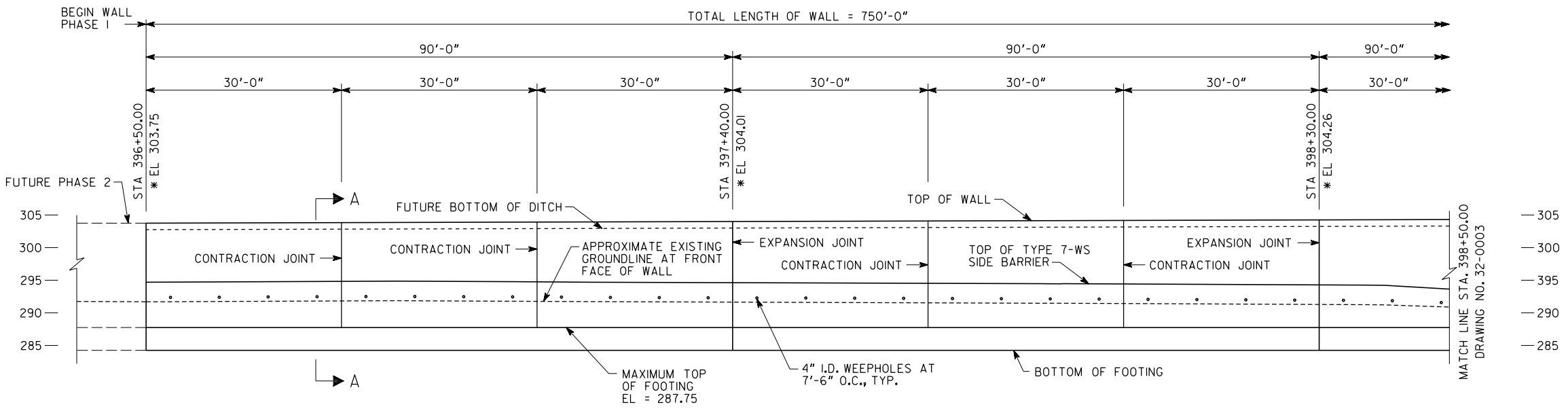
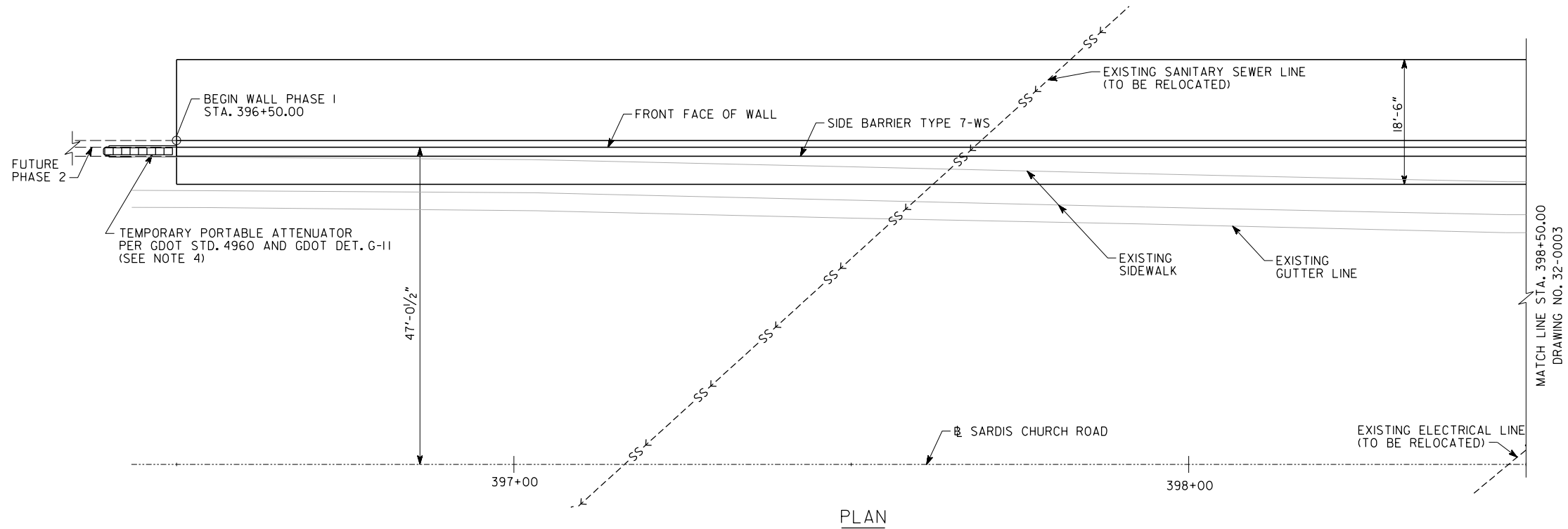


GENERAL NOTES
 MIDDLE GEORGIA REGIONAL AIRPORT
 RUNWAY 5 EXTENSION PHASE I
 BIBB COUNTY



DRAWING NO. 32-0001	BY	DATE	DESIGNED TBS/AHH	CHECKED JAH/BKA	REVIEWED
WALL SHEET 1 OF 5			DRAWN AHH	DESIGN GROUP	APPROVED

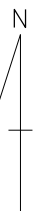
NO SCALE AUGUST 2022




ELEVATION
LOOKING AT FRONT FACE OF WALL

NOTES:

1. ALL LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
2. * TOP OF WALL ELEVATION.
3. STATIONS ARE ALONG SARDIS CHURCH ROAD. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
4. TEMPORARY ATTENUATOR SHALL BE REMOVED DURING PHASE 2 CONSTRUCTION.
5. COST OF TEMPORARY ATTENUATOR INCLUDING ALL ACCESSORIES, CONCRETE PAD, BACKUP SYSTEM, NOSE STRIPING PANEL, MATERIALS, AND LABOR NECESSARY TO COMPLETE THE SYSTEM SHALL BE PAID FOR UNDER PAY ITEM 648-I550.

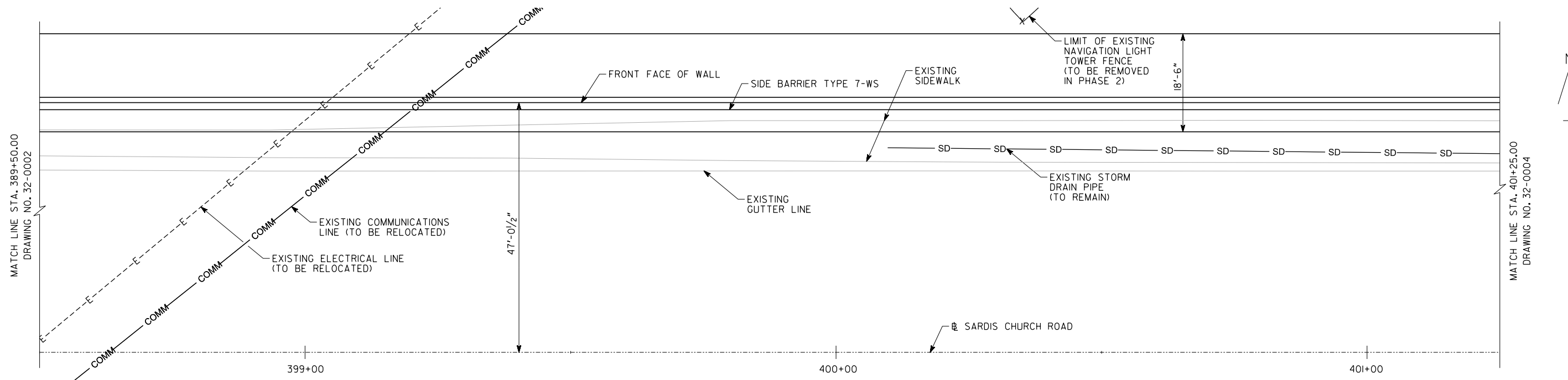


DATE		WALL NO. 1	
REVISIONS		 Heath & Lineback Engineers INCORPORATED 2390 CANTON ROAD • BUILDING 200 MARIETTA, GEORGIA 30066-5393 (770) 424-1668	
BY		RETAINING WALL ENVELOPE (1 OF 3) MIDDLE GEORGIA REGIONAL AIRPORT RUNWAY 5 EXTENSION PHASE I BIBB COUNTY	
DRAWING NO. 32-0002		SCALE: 1" = 10'-0" AUGUST 2022	
WALL SHEET 2 OF 5		DESIGNED TBS/AHH	CHECKED JAH/BKA
		DRAWN AHH	DESIGN GROUP
			REVIEWED
			APPROVED

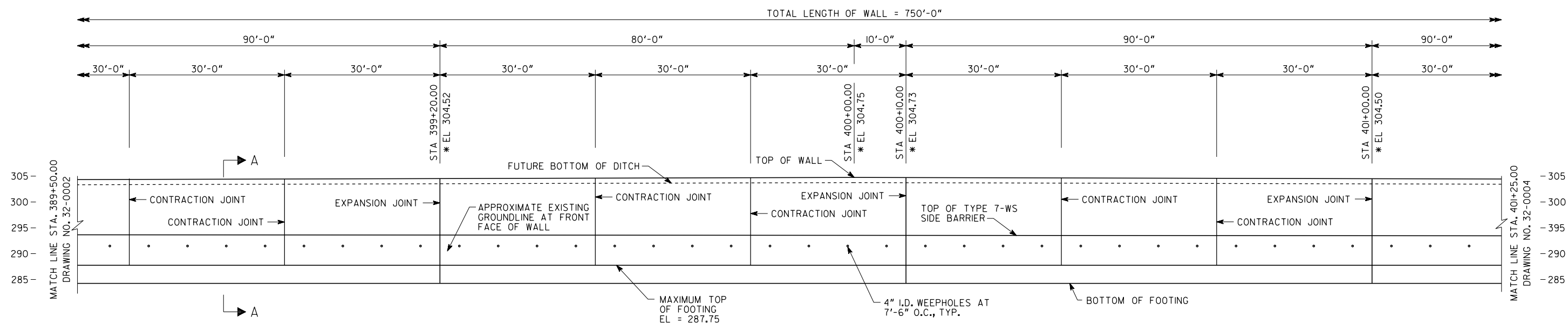
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8/23/2022 10:02 PM USER:tsports

8/31/2022 10:04 PM USER:tsports



PLAN

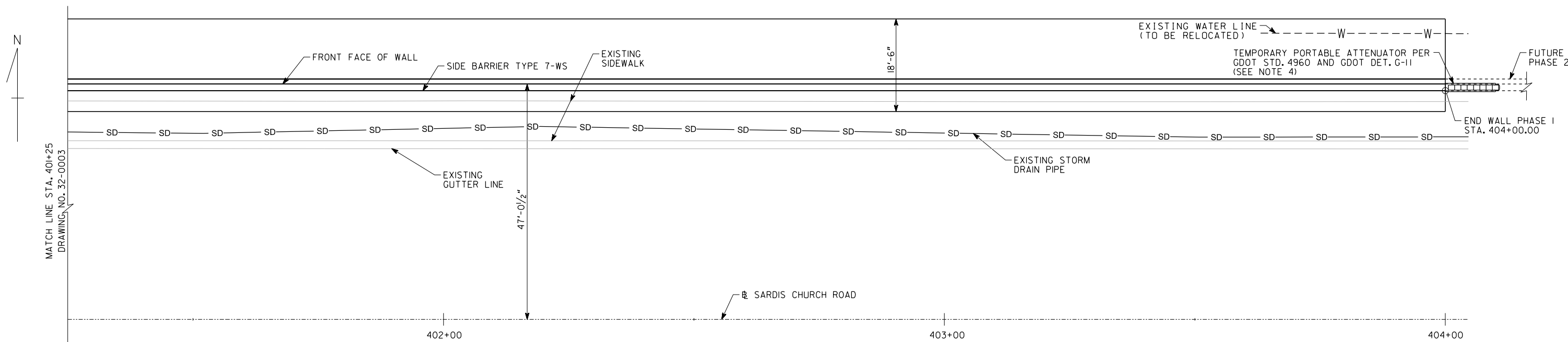


ELEVATION
LOOKING AT FRONT FACE OF WALL

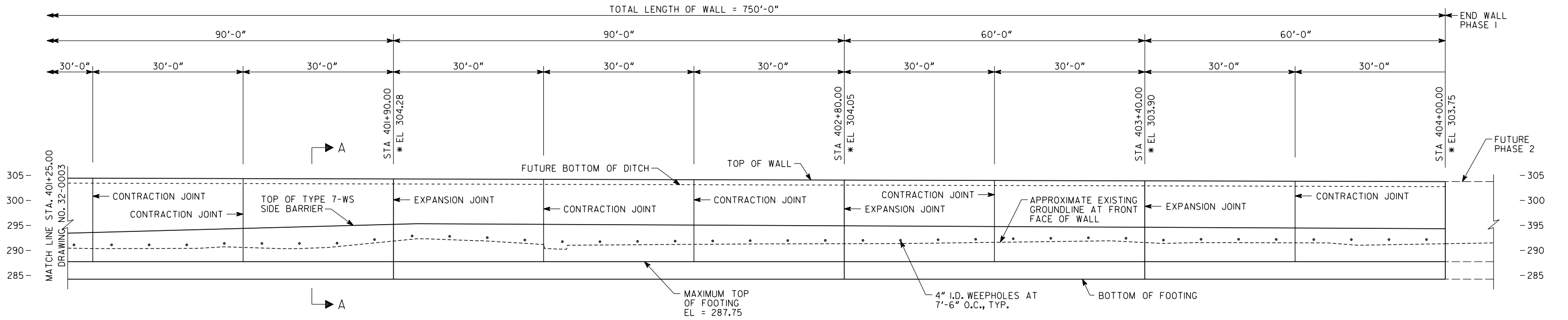
- NOTES:
1. ALL LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
 2. * TOP OF WALL ELEVATION.
 3. STATIONS ARE ALONG SARDIS CHURCH ROAD. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.

WALL NO. 1	
Heath & Lineback Engineers INCORPORATED 2390 CANTON ROAD • BUILDING 200 MARIETTA, GEORGIA 30066-5393 (770) 424-1668	
RETAINING WALL ENVELOPE (2 OF 3) MIDDLE GEORGIA REGIONAL AIRPORT RUNWAY 5 EXTENSION PHASE I BIBB COUNTY	
SCALE: 1" = 10'-0" AUGUST 2022	
DRAWING NO. 32-0003 WALL SHEET 3 OF 5	DESIGNED TBS/AHH CHECKED JAH/BKA DRAWN AHH DESIGN GROUP

1 INCH WHEN PRINTED FULL SIZE



PLAN



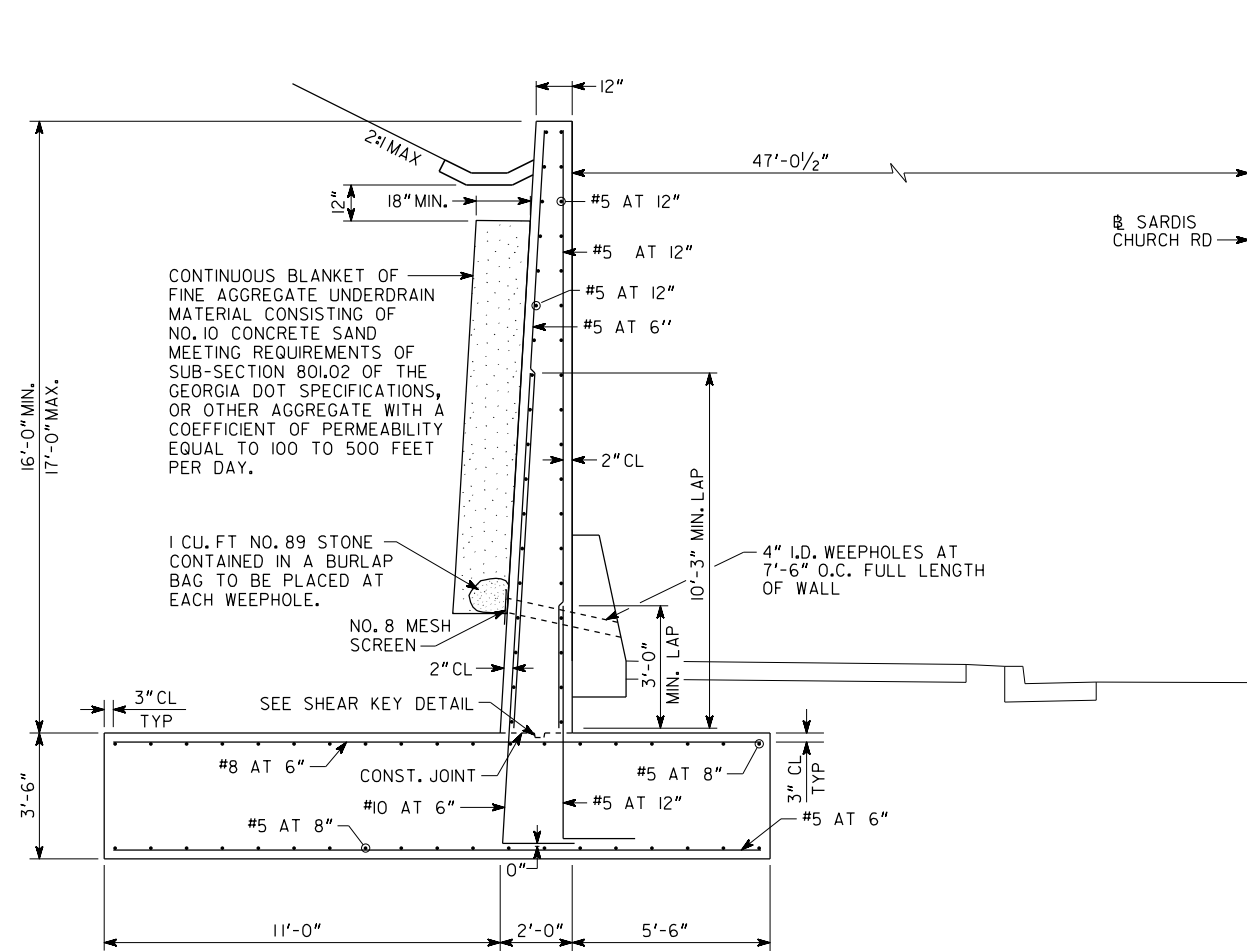
ELEVATION
LOOKING AT FRONT FACE OF WALL

- NOTES:
- ALL LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
 - * TOP OF WALL ELEVATION.
 - STATIONS ARE ALONG SARDIS CHURCH ROAD. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - TEMPORARY ATTENUATOR SHALL BE REMOVED DURING PHASE 2 CONSTRUCTION.
 - COST OF TEMPORARY ATTENUATOR INCLUDING ALL ACCESSORIES, CONCRETE PAD, BACKUP SYSTEM, NOSE STRIPING PANEL, MATERIALS, AND LABOR NECESSARY TO COMPLETE THE SYSTEM SHALL BE PAID FOR UNDER PAY ITEM 648-1550.

Heath & Lineback Engineers INCORPORATED 2390 CANTON ROAD • BUILDING 200 MARIETTA, GEORGIA 30066-5393 (770) 424-1668	
RETAINING WALL ENVELOPE (3 OF 3) MIDDLE GEORGIA REGIONAL AIRPORT RUNWAY 5 EXTENSION PHASE I BIBB COUNTY	
SCALE: 1" = 10'-0"	AUGUST 2022
DRAWING NO. 32-0004 WALL SHEET 4 OF 5	DESIGNED TBS/AHH CHECKED JAH/BKA DRAWN AHH
REVISIONS DATE	REVIEWED APPROVED

1" = 1" WHEN PRINTED FULL SIZE

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CONTINUOUS BLANKET OF FINE AGGREGATE UNDERDRAIN MATERIAL CONSISTING OF NO. 10 CONCRETE SAND MEETING REQUIREMENTS OF SUB-SECTION 801.02 OF THE GEORGIA DOT SPECIFICATIONS, OR OTHER AGGREGATE WITH A COEFFICIENT OF PERMEABILITY EQUAL TO 100 TO 500 FEET PER DAY.

1 CU. FT NO. 89 STONE CONTAINED IN A BURLAP BAG TO BE PLACED AT EACH WEEPHOLE.

NO. 8 MESH SCREEN

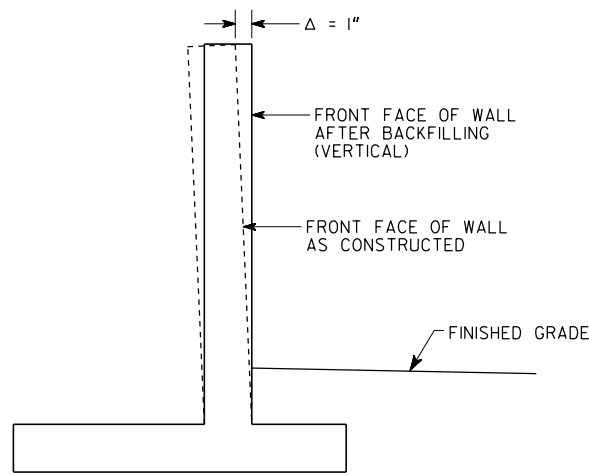
SEE SHEAR KEY DETAIL

CONST. JOINT

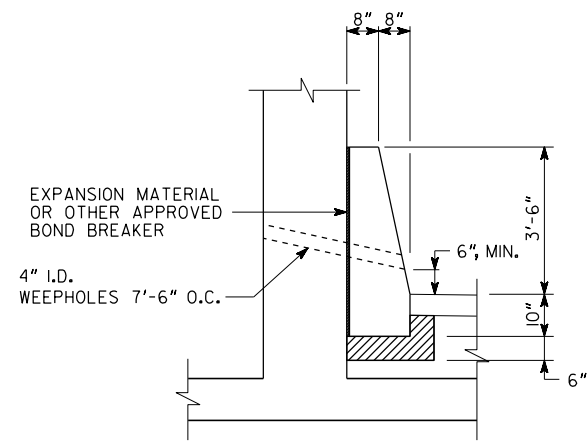
SECTION A-A

NOTES:

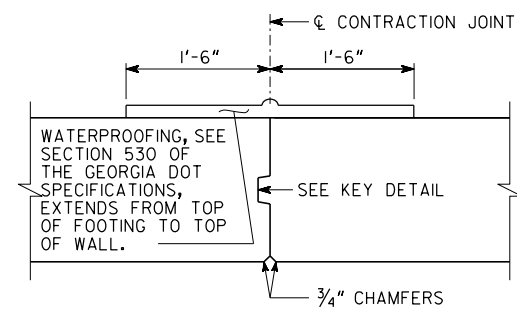
- BACKFILL AND CONCRETE DITCH SHALL NOT BE INSTALLED PRIOR TO COMPLETION OF THE PHASE 2 CONSTRUCTION.
- BAR REINFORCEMENT FOR THE RETAINING WALL SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEM 500-3810, CLASS AA CONCRETE, INCL REINF STEEL.
- TAKE CARE TO NOT DAMAGE LONGITUDINAL STORM DRAINAGE SYSTEM DURING EXCAVATION AND CONSTRUCTION.



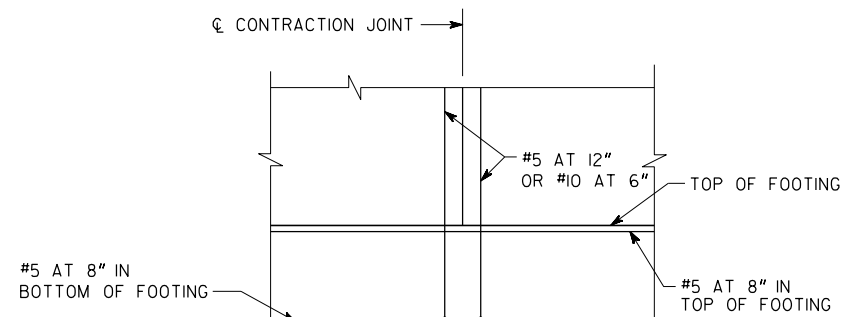
WALL BATTER DETAIL



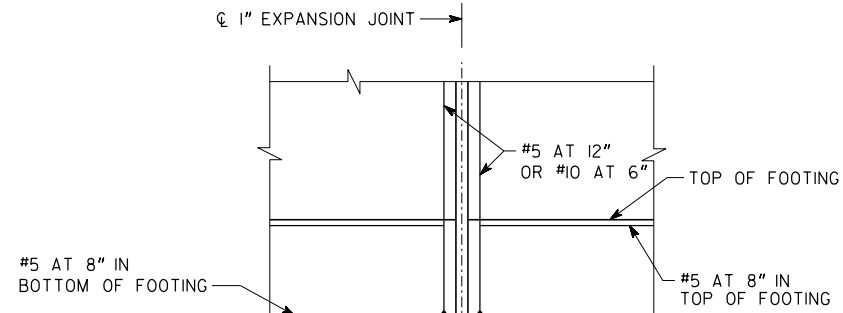
BARRIER DETAIL AGAINST WALLS



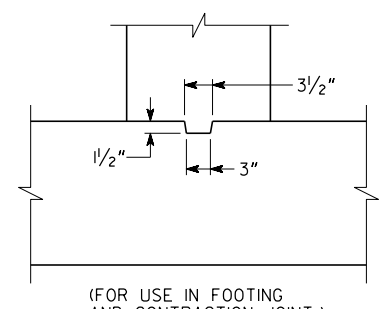
DETAIL OF CONTRACTION JOINT



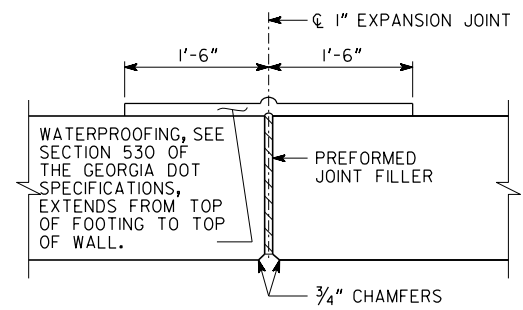
FOOTING AT CONTRACTION JOINT



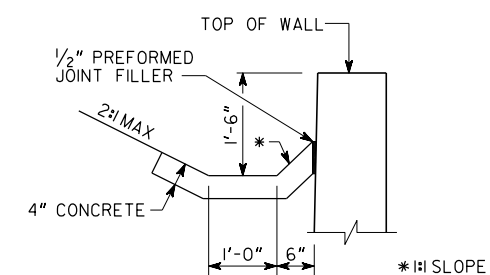
FOOTING AT EXPANSION JOINT



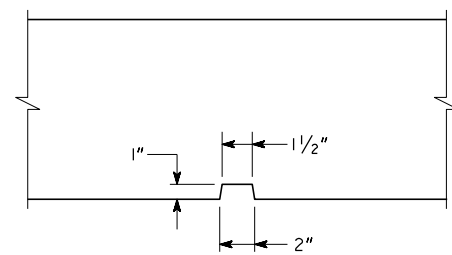
SHEAR KEY DETAIL



DETAIL OF EXPANSION JOINT



FUTURE PAVED DITCH DETAIL



RUSTICATION GROOVE

NOTE: RUSTICATION GROOVES SHALL BE SPACED EVENLY AT 7'-6"± BETWEEN CONTRACTION JOINTS AND EXPANSION JOINTS.

WALL NO. 1

H&L Heath & Lineback Engineers INCORPORATED
2390 CANTON ROAD • BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770) 424-1668

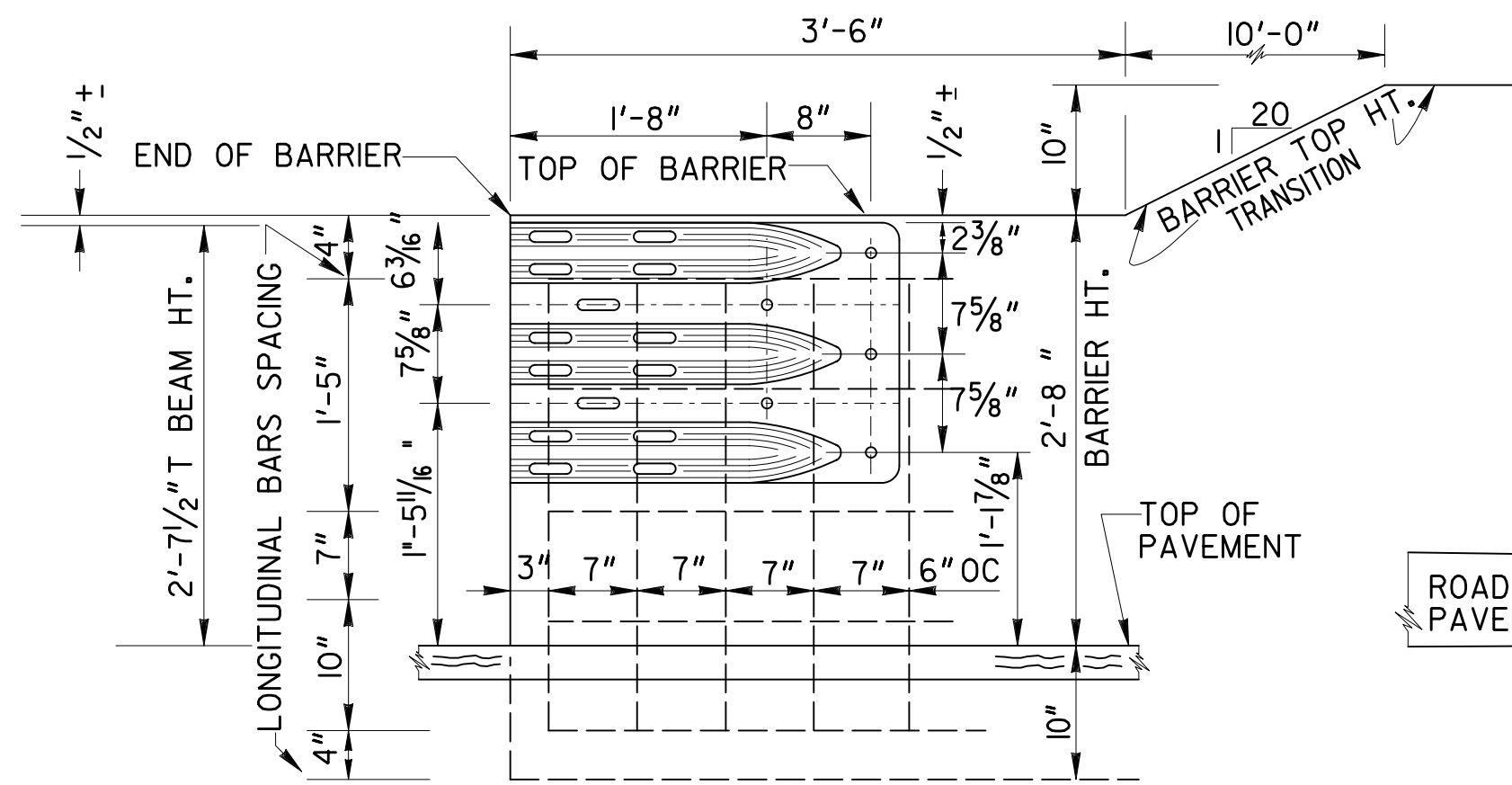
MISCELLANEOUS DETAILS
MIDDLE GEORGIA REGIONAL AIRPORT
RUNWAY 5 EXTENSION PHASE I
BIBB COUNTY

DRAWING NO.
32-0005

WALL SHEET
5 OF 5

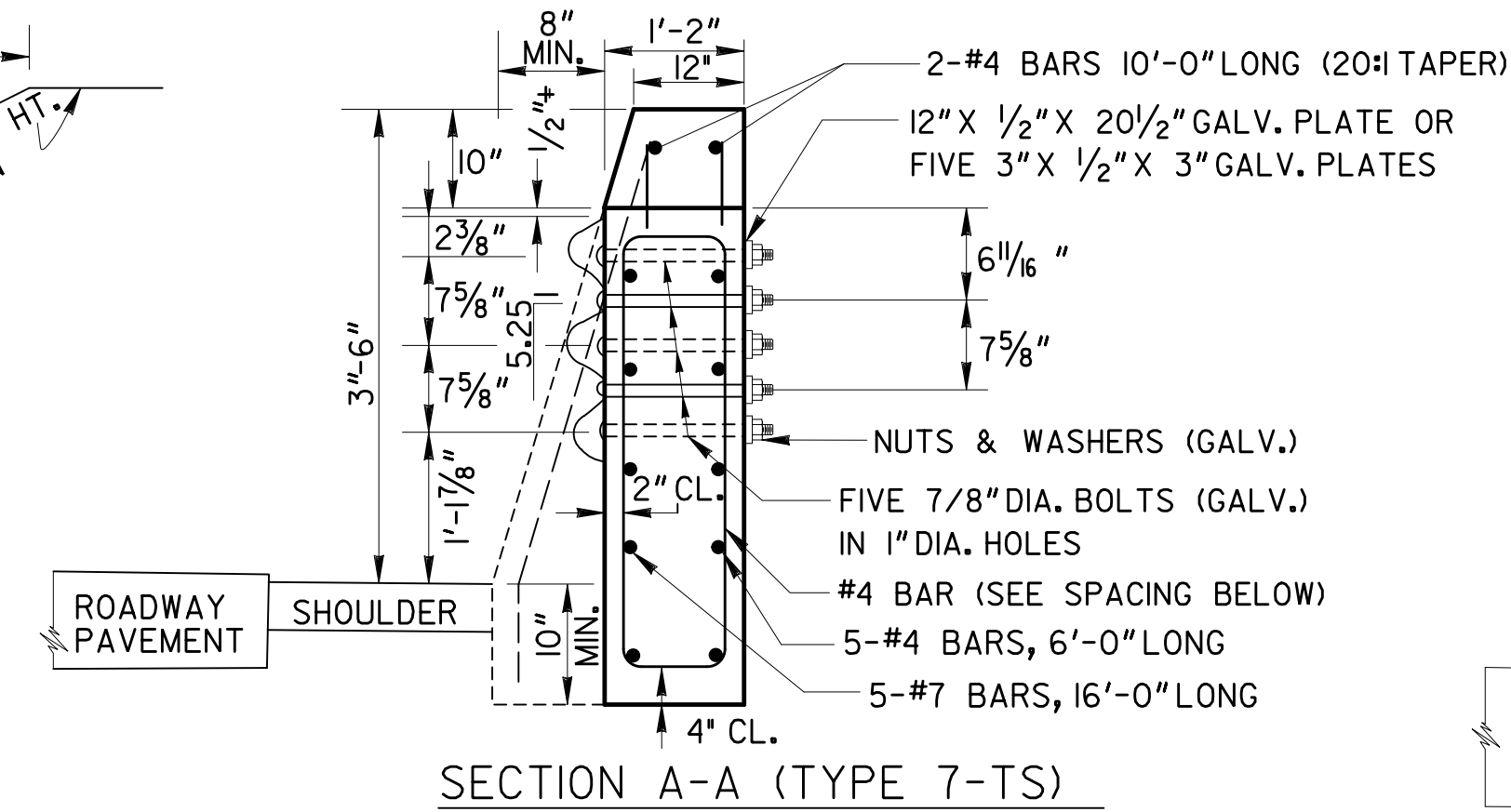
DATE	REVISIONS	BY

DESIGNED	TBS/AHH	CHECKED	JAH/BKA	REVIEWED	
DRAWN	AHH	DESIGN GROUP		APPROVED	

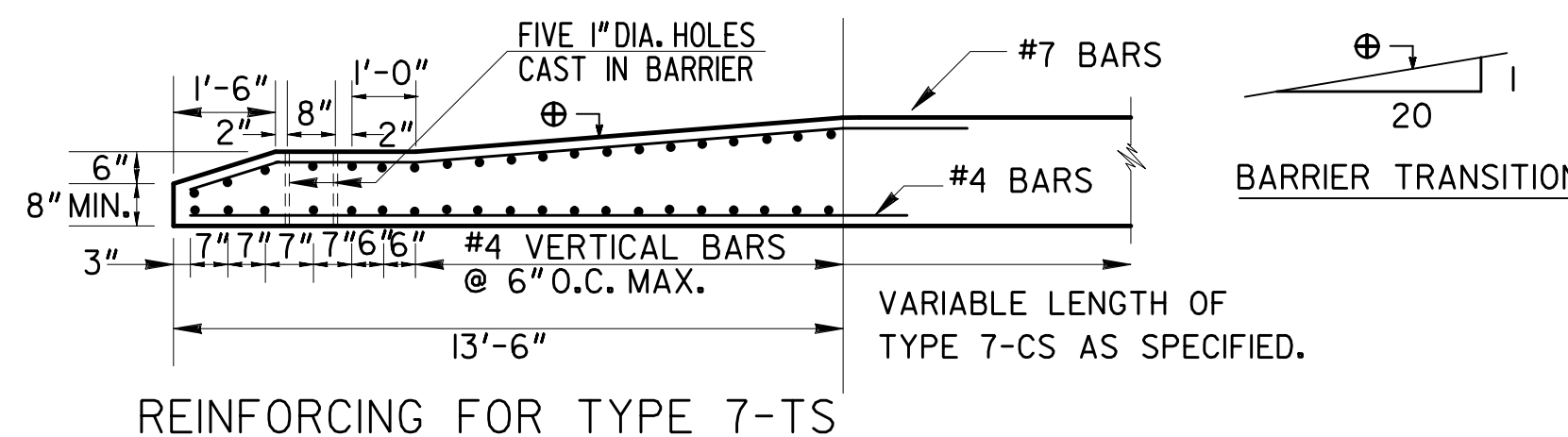


NOTE:
FOR DETAILS OF GUARDRAIL,
SPECIAL END SHOE, 1/2" GALV. PLATE
AND RELATED ITEMS, SEE STANDARD 4270

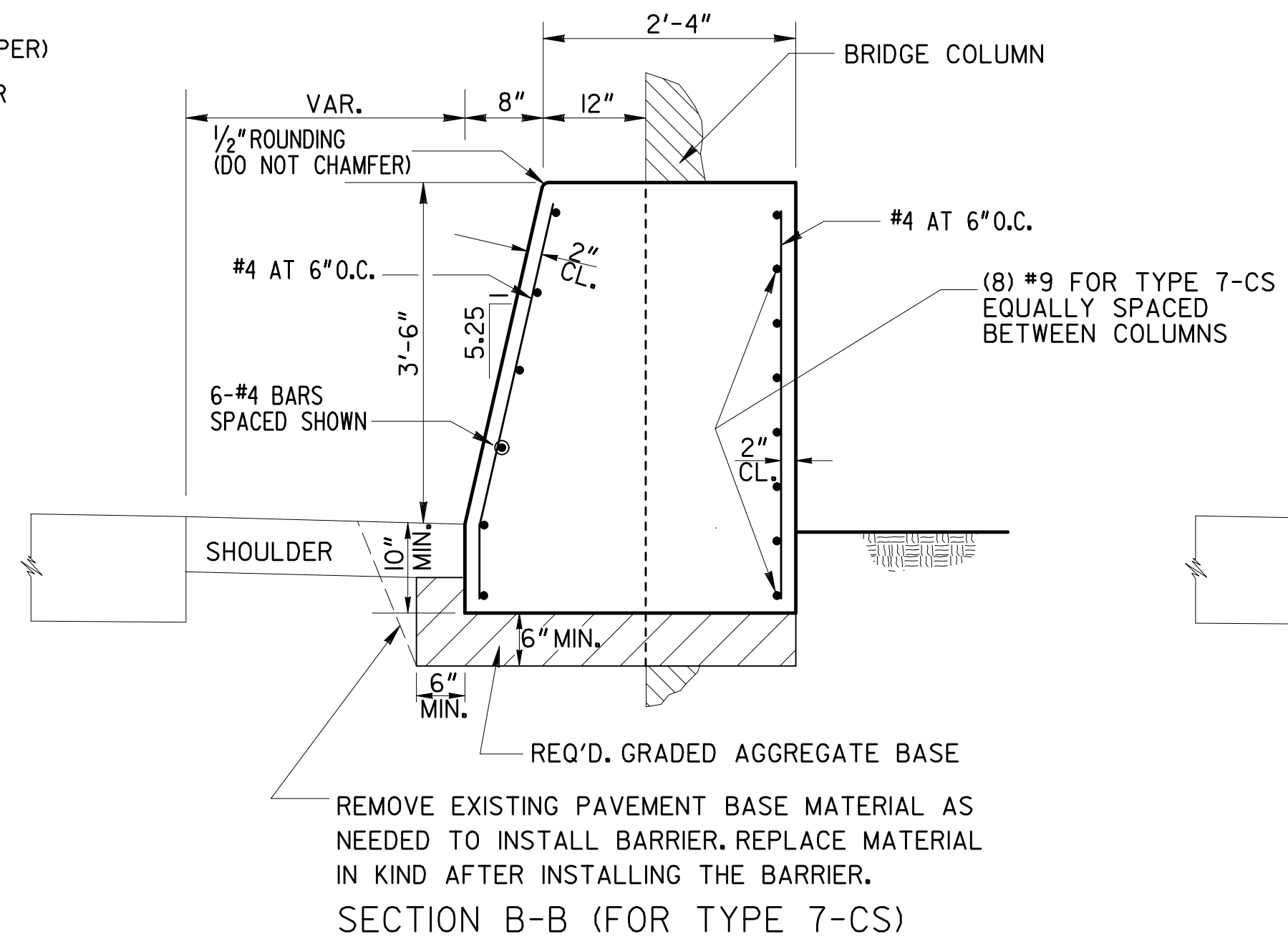
GUARDRAIL ATTACHMENT DETAIL



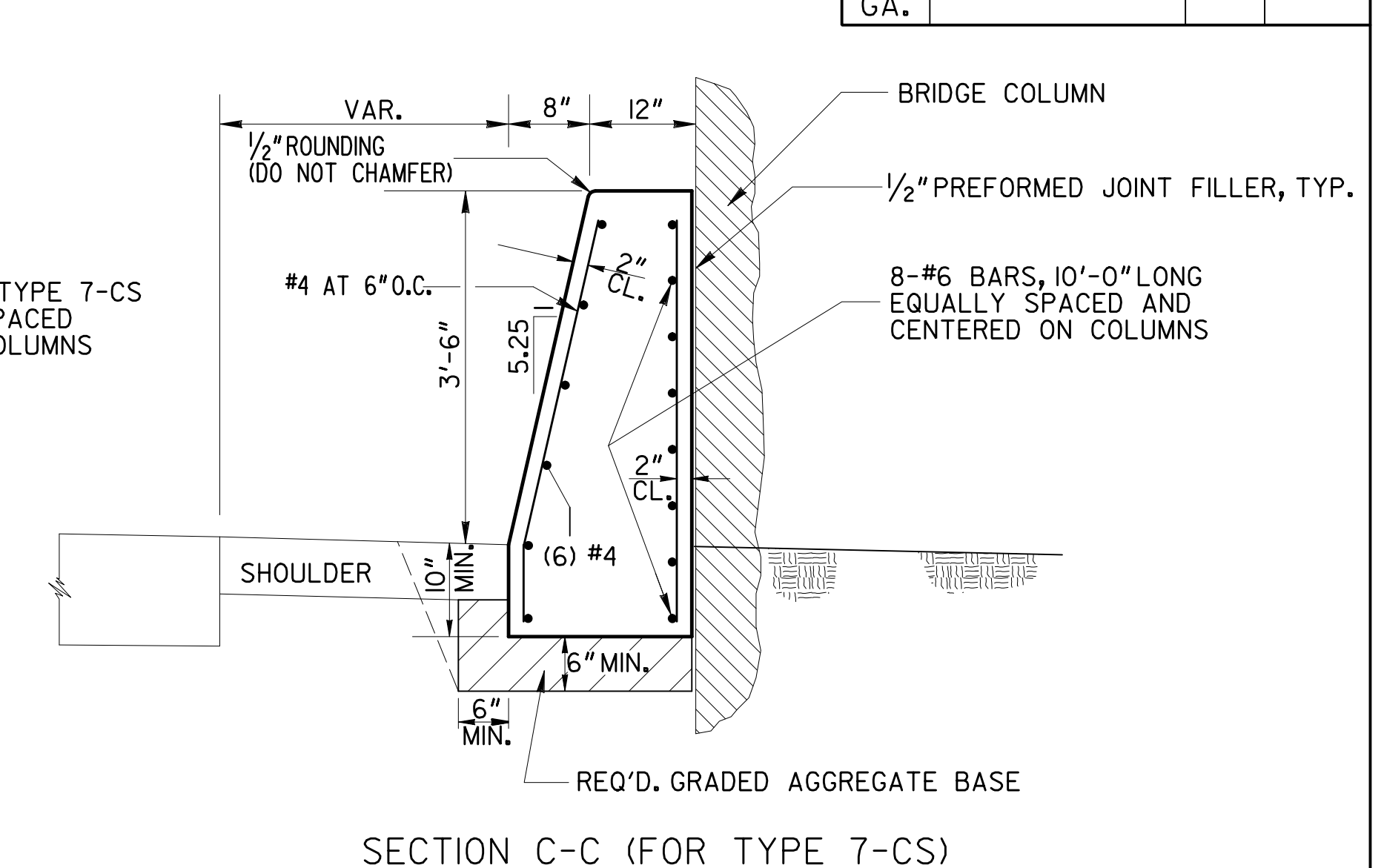
SECTION A-A (TYPE 7-TS)



REINFORCING FOR TYPE 7-TS



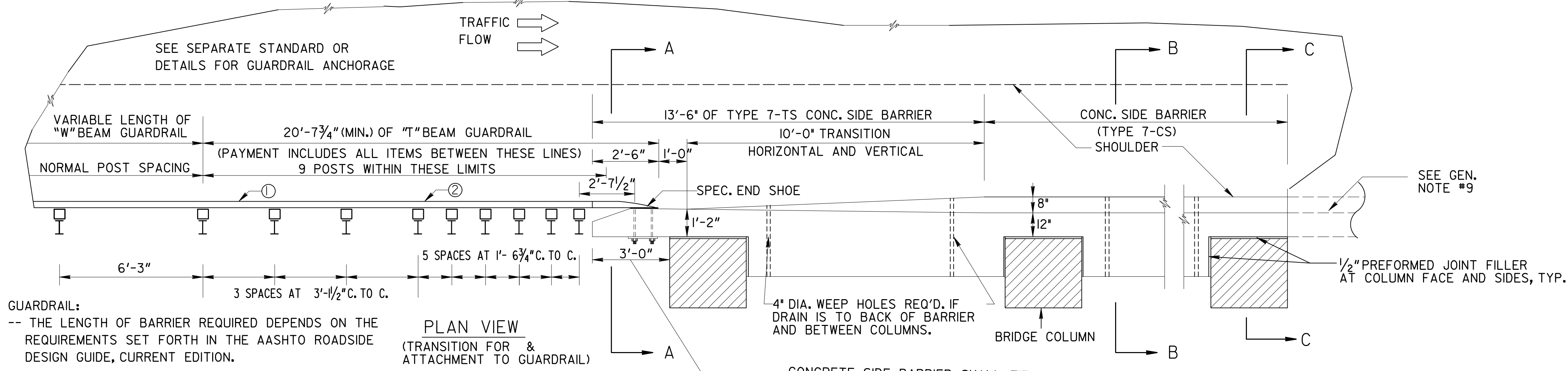
SECTION B-B (FOR TYPE 7-CS)



SECTION C-C (FOR TYPE 7-CS)

GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
- CONCRETE SHALL BE CLASS "AA" WITH A TYPE III FINISH TO ALL EXPOSED SURFACES. REINFORCING STEEL SHALL BE GRADE 60.
- MAINTAIN 2" COVER ON ALL REINFORCING IN BARRIER TYPES 7-CS AND TYPE 7-TS.
- TOP SURFACE OF CONCRETE SIDE BARRIER SHALL BE NO MORE THAN 1/8" FROM THE REQUIRED GRADE ELEVATION.
- TYPE 7-WS SIDE BARRIERS OVER 20'-0" IN LENGTH SHALL HAVE CONTRACTION JOINTS SPACED AT A MAXIMUM OF 20'-0". CONTRACTION JOINTS IN TYPE 7-WS SHALL BE CUT 1/4" WIDE AND 2" DEEP WITHIN 24 HOURS OF CONCRETE. CONTRACTION JOINTS IN TYPE 7-CS SHALL BE CENTERED ON COLUMNS. REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE CONTRACTION JOINT. SIDE BARRIERS OVER 260'-0" IN LENGTH SHALL HAVE EXPANSION JOINTS SPACE UNIFORMLY AT A MAXIMUM OF 300'-0" WITH 1" PREFORMED JOINT FILLER AT EACH EXPANSION JOINT.
- TYPE 7-CS, 7-TS, AND 7-WS SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 7-CS, 7-TS, AND 7-WS. INCLUDE COST OF ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STANDARD SPECIFICATIONS IN THE PRICE BID.
- PAYMENT FOR TYPE 7-TS CONCRETE SIDE BARRIER INCLUDES THE TRANSITION SECTION, TAPER SECTION, AND FIVE 1-INCH DIAMETER HOLES, DRILLED FOR CONNECTING THE SPECIAL END SHOE. PAYMENT FOR GUARDRAIL INCLUDES THE SPECIAL END SHOE, ALL CONNECTING HARDWARE, ADDITIONAL POSTS AND DOUBLE "T" BEAM.
- WHEN A TRANSITION FROM A TYPE 7-WS TO GUARDRAIL IS NECESSARY, 13'-6" OF TYPE 7-TS SIDE BARRIER, DETAILED FOR TRANSITION, SHOULD BE USED AT THE END OF THE TYPE 7-WS. SEE STANDARD 4949C.
- TYPE 7-CS, 7-TS, AND 7-WS SIDE BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE 2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- TYPE 7-TS AND ADDITIONAL GUARDRAIL POSTS NOT REQUIRED AT DOWNSTREAM END OF SIDE BARRIER WITH ONE-WAY TRAFFIC.
- WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
- PLACE OVERHEAD SIGN SUPPORTS ON THE BACK SIDE OF SIDE BARRIER. WHEN CONDITIONS CALL FOR PLACEMENT ON BARRIER TOP, THE SIGN SUPPORT FOOTING SHALL BE DESIGNED BY CONTRACTOR AND ACCEPTED BY THE ENGINEER, PRIOR TO CONSTRUCTION. SEE SPECIAL DETAIL 4945 FOR TYPE 26-S SIDE BARRIER.
- USE GUARDRAIL RATHER THAN CONCRETE SIDE BARRIER, IF LATERAL DISTANCE FROM THE EDGE OF THE TRAVEL LANE IS MORE THAN 15'-0".

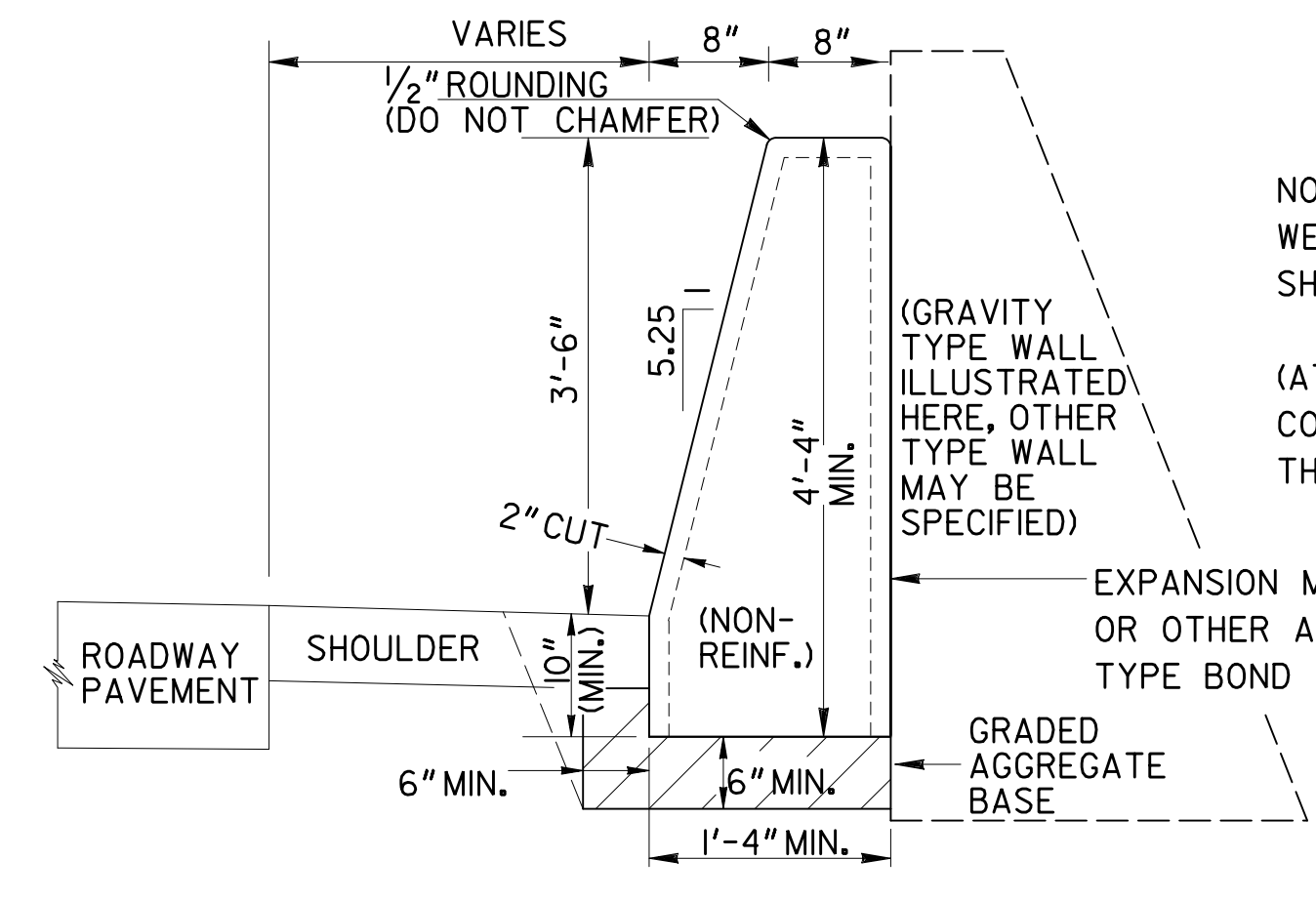


PLAN VIEW
(TRANSITION FOR &
ATTACHMENT TO GUARDRAIL)

GUARDRAIL:
-- THE LENGTH OF BARRIER REQUIRED DEPENDS ON THE REQUIREMENTS SET FORTH IN THE AASHTO ROADSIDE DESIGN GUIDE, CURRENT EDITION.
-- POSTS AND OFFSET BLOCKS DEPICTED FOR GUARDRAIL ARE TYPICAL. NORMAL CONSTRUCTION TOLERANCES ARE ALLOWED FOR SPACINGS.

CONCRETE SIDE BARRIER SHALL TIE INTO ADJACENT CONCRETE SLOPE PAVING; SHOULDER PAVING; BACK SLOPE; DITCH; OR GUTTER, AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

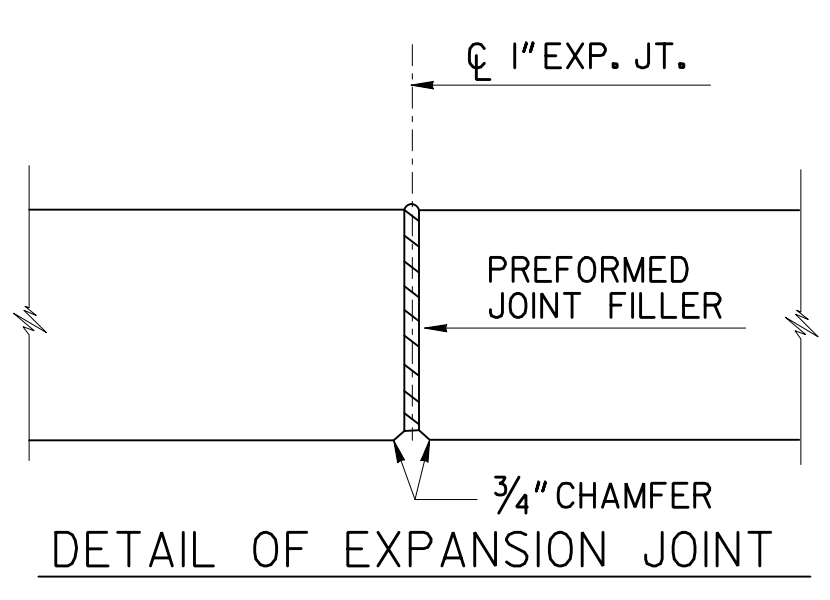
BARRIER TYPE LOCATIONS	
TYPE	LOCATION
7-CS	AT BRIDGE COLUMNS
7-TS	TRANSITION TO 7-CS
7-WS	ALONG RETAINING WALL (TYPE AS SPECIFIED); BUT NOT ALONG SOUND BARRIER.



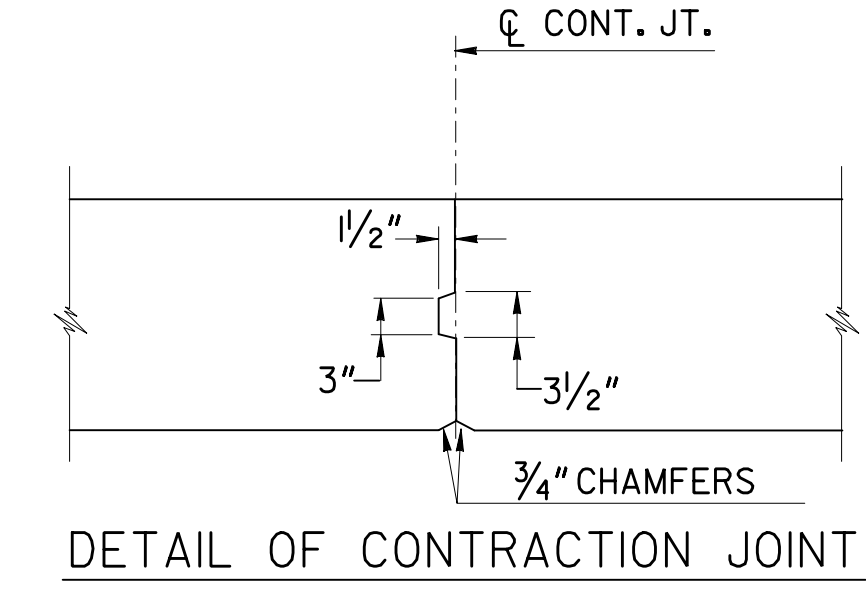
TYPE 7-WS

NOTE:
WEEP HOLES FOR TYPE 7-WS BARRIER SHALL ALIGN WITH WEEP HOLES OF WALLS.
(AT NO ADDITIONAL COST TO THE DEPARTMENT, THE CONTRACTOR MAY USE AN UNDER DRAIN SYSTEM BEHIND THE WALL INSTEAD OF WEEP HOLES.)

NO VOIDS ALLOWED BETWEEN BARRIER AND WALL, GROUT FILL ALL VOIDS.



DETAIL OF EXPANSION JOINT



DETAIL OF CONTRACTION JOINT

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		SPECIAL DETAIL CONCRETE SIDE BARRIER TYPES 7-CS, 7-TS, AND 7-WS	
NO SCALE		DECEMBER 2017	
BY	DES. DDF (SUBMITTED) DRW. DDF STATE DESIGN POLICY ENGINEER CHK. CEW (APPROVED) REV. WMD/BAS CHIEF ENGINEER	NUMBER	4949A