

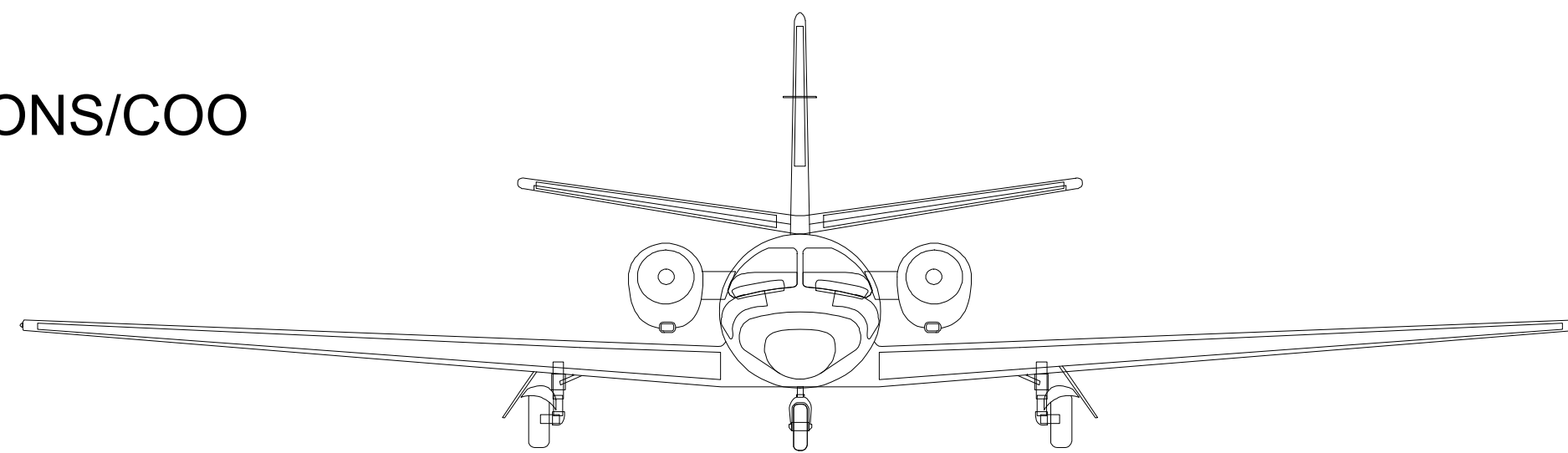
# CONSTRUCTION PLANS

## FOR THE CHARLES BAKER AIRPORT - PAVEMENT RECONSTRUCTION AT CHARLES BAKER AIRPORT MEMPHIS, SHELBY COUNTY, TENNESSEE

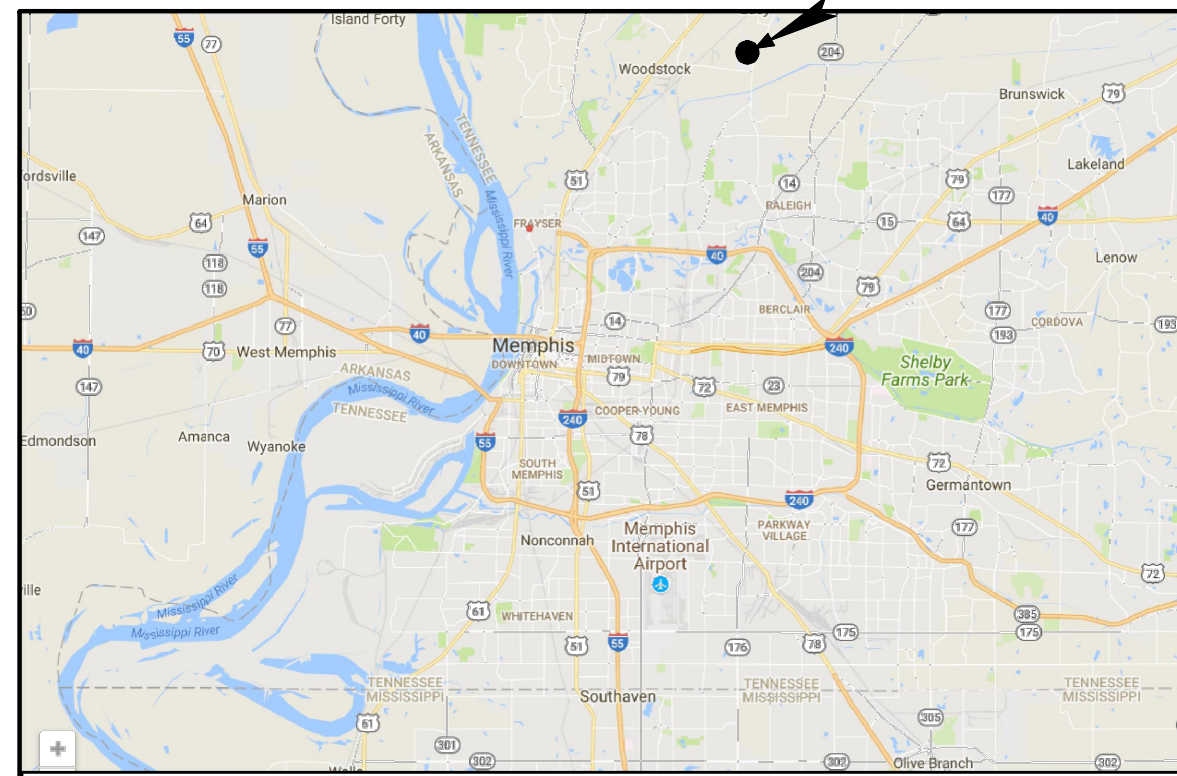
### MEMPHIS-SHELBY COUNTY AIRPORT AUTHORITY (MSCAA)

TERRY BLUE, PRESIDENT AND CEO  
MARSHALL STEVENS, VICE PRESIDENT OF OPERATIONS/COO  
BRIAN TENKHOFF, DIRECTOR OF DEVELOPMENT

MSCAA PROJECT NUMBER: 18-1420-01

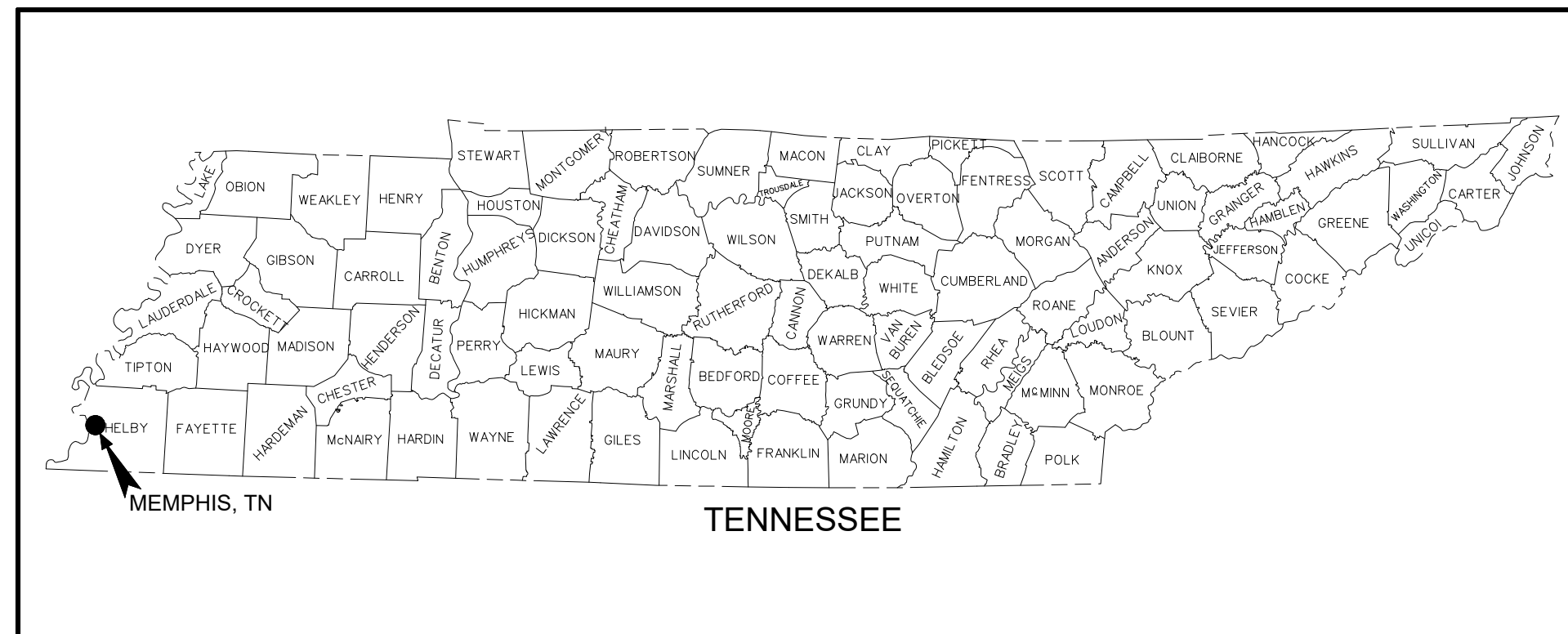


PROJECT SITE



VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE



65 Germantown Court // Suite 100 // Memphis, Tennessee 38018  
PHONE (901) 755-7166 // FAX (901) 755-7844



PROGRAM MANAGER

ENGINEER



BARGE DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

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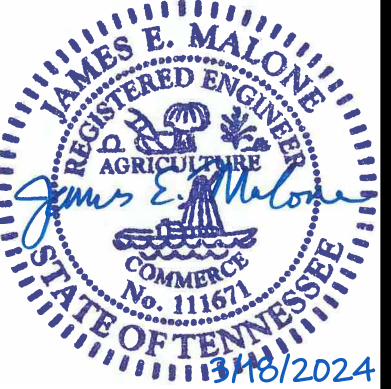
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CHECKED BY:

JDG

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JEG



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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: COVER SHEET

DWG. FILE NAME	3327602-01C-CS-01.DWG
DATE	03/11/2024
SCALE	N/A
SHEET NO.	C-CS-01
SHEET	1 OF 47

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4	C-SF-02	CONSTRUCTION SAFETY AND PHASING PLAN (AREA 2)
5	C-SF-03	CONSTRUCTION SAFETY AND PHASING PLAN (AREA 3)
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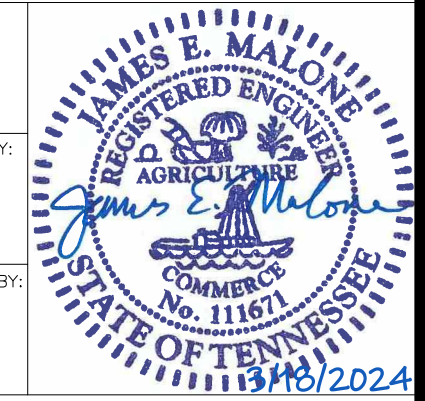
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MSCAA PROJ. NO. **18-1420-01**

PROJECT:  
**CHARLES BAKER  
PAVEMENT  
RECONSTRUCTION**

SHEET TITLE:

**INDEX OF  
DRAWINGS**

DWG. FILE NAME

**3327602-02C-CS-02.DWG**

DATE

**03/11/2024**

SHEET NO.

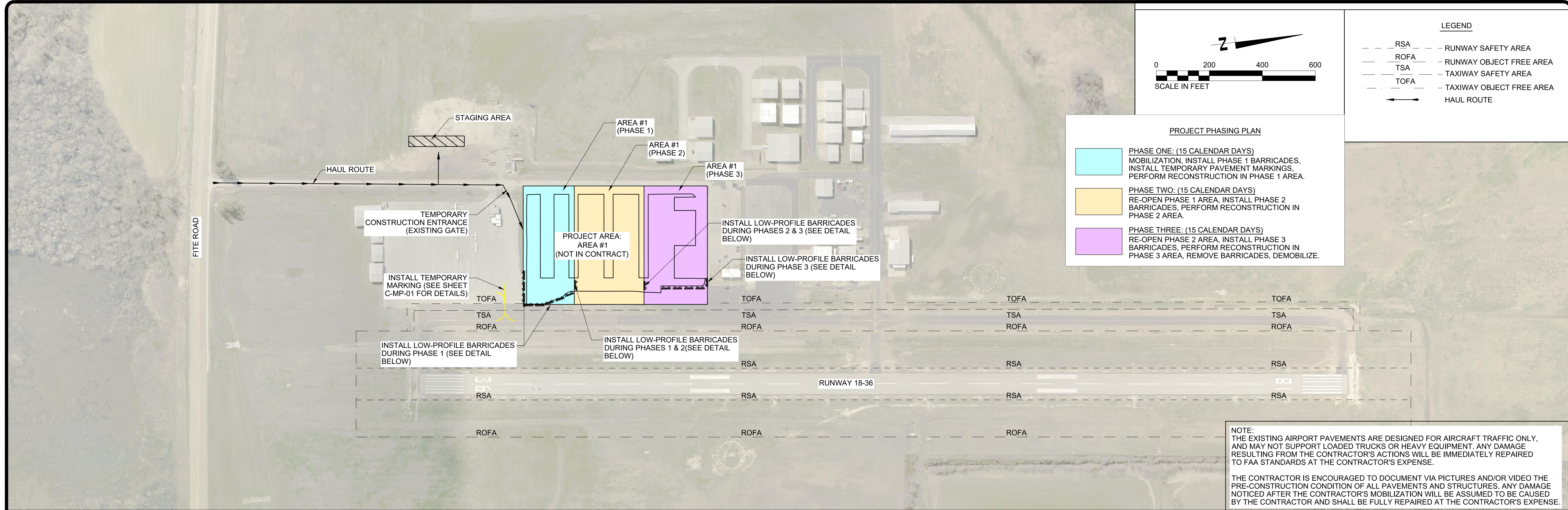
**C-CS-02**

SCALE

**N/A**

SHEET

**2 OF 47**



**PROJECT PHASING PLAN**

- PHASE ONE: (15 CALENDAR DAYS)**  
MOBILIZATION, INSTALL PHASE 1 BARRICADES, INSTALL TEMPORARY PAVEMENT MARKINGS, PERFORM RECONSTRUCTION IN PHASE 1 AREA.
- PHASE TWO: (15 CALENDAR DAYS)**  
RE-OPEN PHASE 1 AREA, INSTALL PHASE 2 BARRICADES, PERFORM RECONSTRUCTION IN PHASE 2 AREA.
- PHASE THREE: (15 CALENDAR DAYS)**  
RE-OPEN PHASE 2 AREA, INSTALL PHASE 3 BARRICADES, PERFORM RECONSTRUCTION IN PHASE 3 AREA, REMOVE BARRICADES, DEMOBILIZE.

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

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

**SAFETY NOTES**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NO LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIR MISSIONS" (NOTAM) OF THE CONSTRUCTION ACTIVITIES.
- AIRPORT OPERATION SAFETY AREAS ARE DEFINED AS FOLLOWS:
  - RUNWAY 18-36 RSA - 60 FEET FROM THE CENTERLINE OF PAVEMENT AND 240 FEET BEYOND RUNWAY END. (RSA)
  - RUNWAY 18-36 OFA - 200 FEET FROM THE CENTERLINE OF PAVEMENT AND 240 FEET BEYOND RUNWAY END. (ROFA)
  - TAXIWAY SAFETY AREA - 39.5' FROM CENTERLINE OF PAVEMENT. (TSA)
  - TAXIWAY OBJECT FREE AREA - 62' FROM CENTERLINE OF PAVEMENT. (TOFA)
  - TAXILANE OBJECT FREE AREA - 55' FROM CENTERLINE OF PAVEMENT. (TLOFA)
- NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
- THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY, TAXIWAYS, OR MAIN APRON UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
- THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
- THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA, AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
- THE CONTRACTOR SHALL HAVE AN INDIVIDUAL ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING, BARRICADES, AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF WORK.
- THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER-APPROVED ESCORT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON LINE AT [HTTP://WWW.FAA.GOV](http://www.faa.gov):
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- AIRCRAFT OPERATIONS SHALL, AT ALL TIMES, HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT, AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN CONTRACTOR PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH SUCH ROTATING OR FLASHING AMBER LIGHTS, AND HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.

- THE CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE CONSTRUCTION FENCING WITH BARRELS AND WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
- ALL VEHICLES BELONGING TO THE FOREMAN AND SUPERINTENDENT SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR WILL NOT BE ALLOWED ON ANY FAA FREQUENCY.
- ALL CONSTRUCTION TRAFFIC WHICH CROSSES AIRPORT OPERATIONAL SAFETY AREAS MUST BE CONTROLLED BY FLAGMEN. ALL FLAGMEN CONTROLLING CONSTRUCTION TRAFFIC ACROSS AIRPORT OPERATIONAL AREAS SHALL ALSO BE EQUIPPED WITH A RADIO WHICH WILL OPERATE ON THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ.
- CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) RADIOS CAPABLE OF OPERATING ON 122.80 MHZ ON THE PROJECT SITE FOR CONTRACTOR USE AT ALL TIMES DURING CONSTRUCTION.
- ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
- DEBRIS, WASTE, AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE MOBILIZATION LINE ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB. ALL AREAS INSIDE THE PERIMETER FENCE ARE RESTRICTED. PERSONNEL ARE ONLY AUTHORIZED IN CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED END-TO-END ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCLUDED IN THE "AIRFIELD BARRICADES" PAY ITEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS.
- THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.

- CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
- ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING, AND MATERIAL STORAGE SHALL BE RESTORED TO ORIGINAL CONDITION WHEN ALL CONSTRUCTION IS COMPLETED.
- THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES OR VIDEO THE PRECONSTRUCTION CONDITION OF ALL AIRPORT PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR TO BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS, AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
- GATES AT CONSTRUCTION ENTRANCES SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES WHEN THE ENTRANCE IS NOT IN USE BY CONSTRUCTION PERSONNEL. GATES TO BE MANNED BY CONTRACTOR PERSONNEL WHEN OPEN.
- CONTRACTOR SHALL SUBMIT MSCAA & FAA UTILITY LOCATE REQUEST FORM PRIOR TO EXECUTION.
- CONTRACTOR SHALL PREPARE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT DETAIL HOW THE CONTRACTOR WILL COMPLY WITH THE CONSTRUCTION SAFETY & PHASING PLAN (CSPP). THE SPCD MUST BE APPROVED BY THE AIRPORT OPERATOR PRIOR TO THE ISSUANCE OF A NOTICE TO PROCEED.

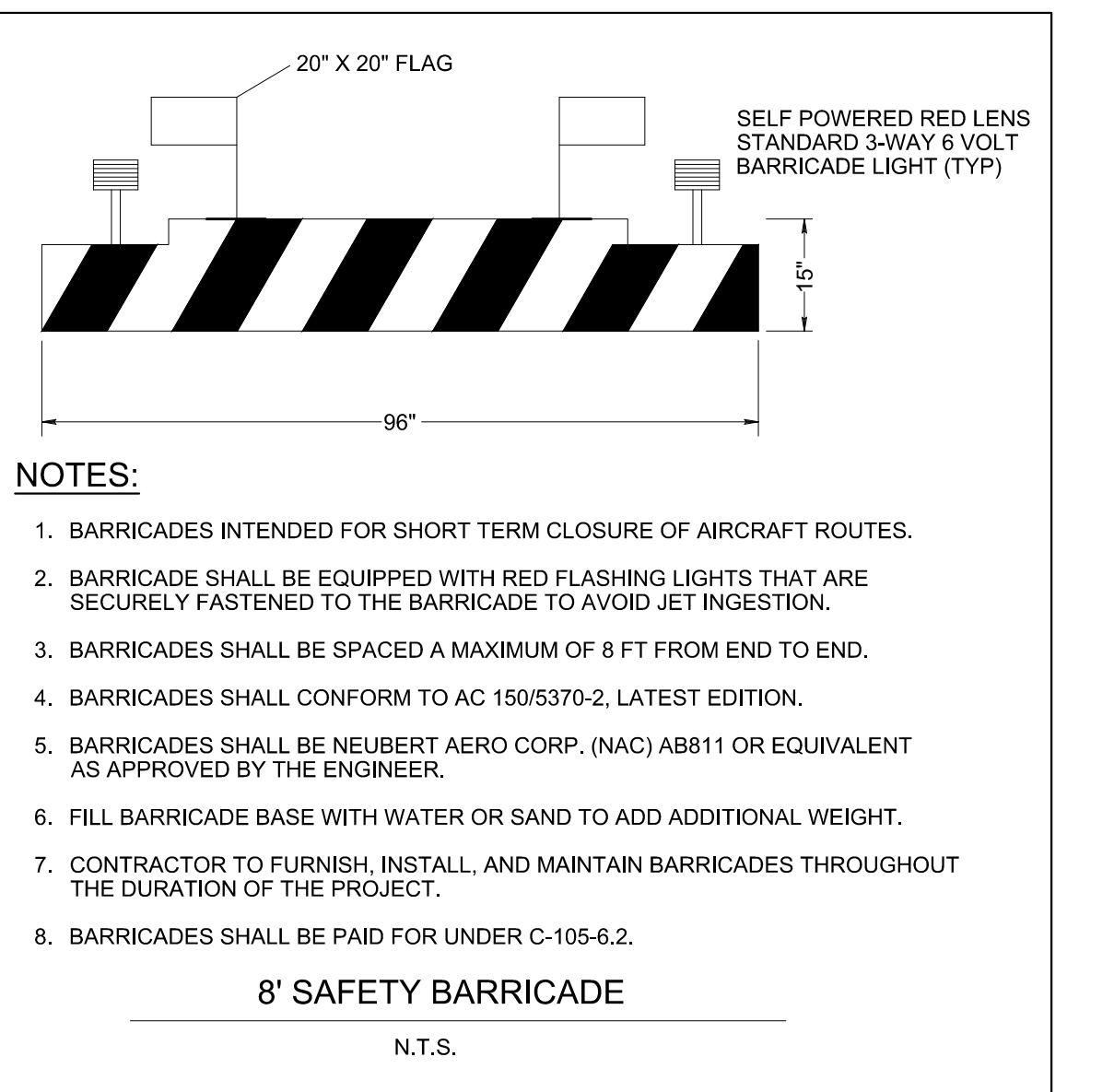
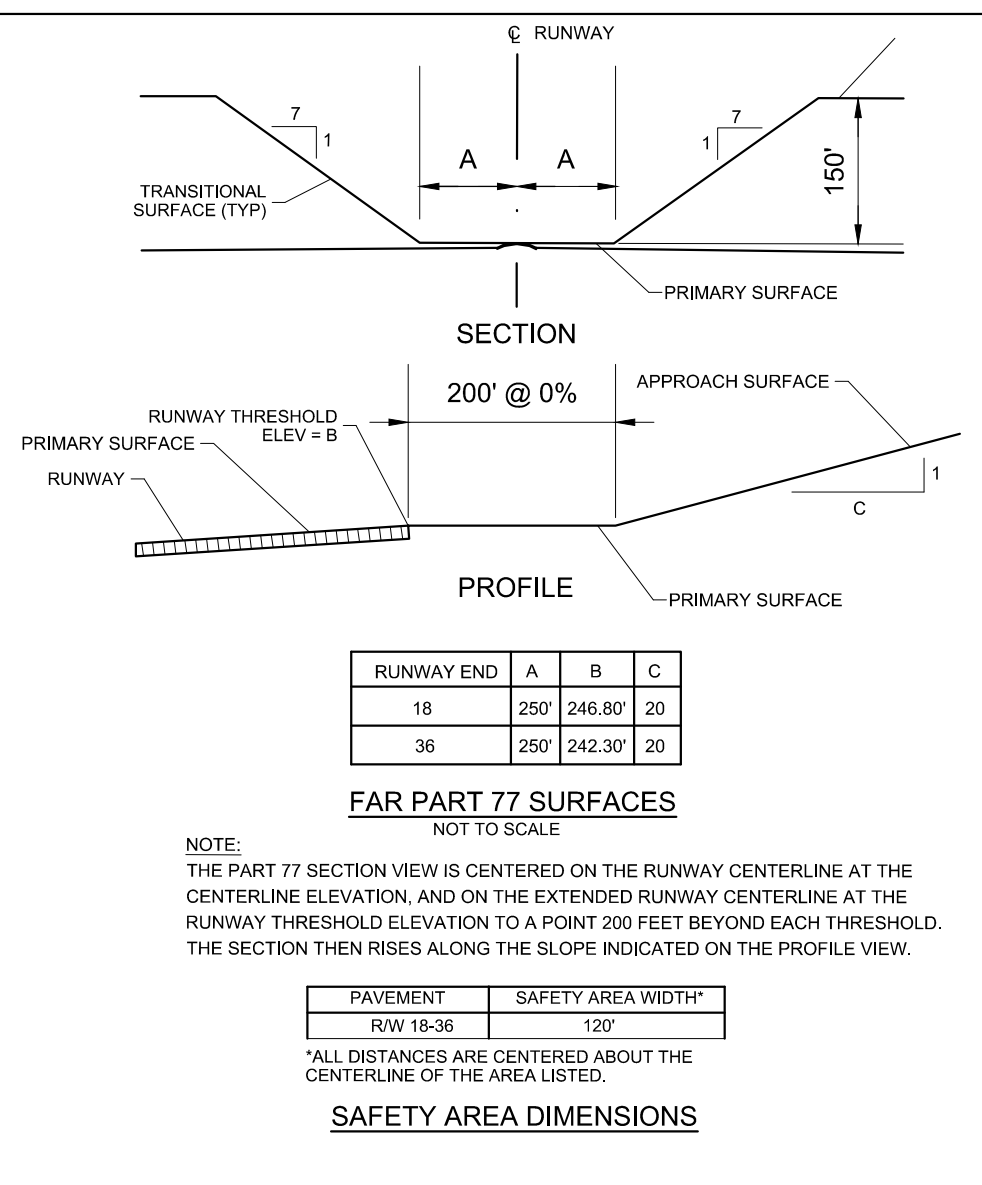
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FIRE DEPARTMENT: (901) 873-5800  
AIRPORT: (901) 358-0028  
MEDICAL: (901) 516-5200

**UTILITY CONTACTS**  
MLGW: (901) 528-4270

**LIQUIDATED DAMAGES**  
\$2,000 PER CALENDAR DAY

**CONTRACT TIME**  
45 CALENDAR DAYS



Memphis INTERNATIONAL AIRPORT

PROGRAM MANAGER

ENGINEER  
**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY: JEM

CHECKED BY: JEG

APPROVED BY: JEG

**NOT IN CONTRACT**

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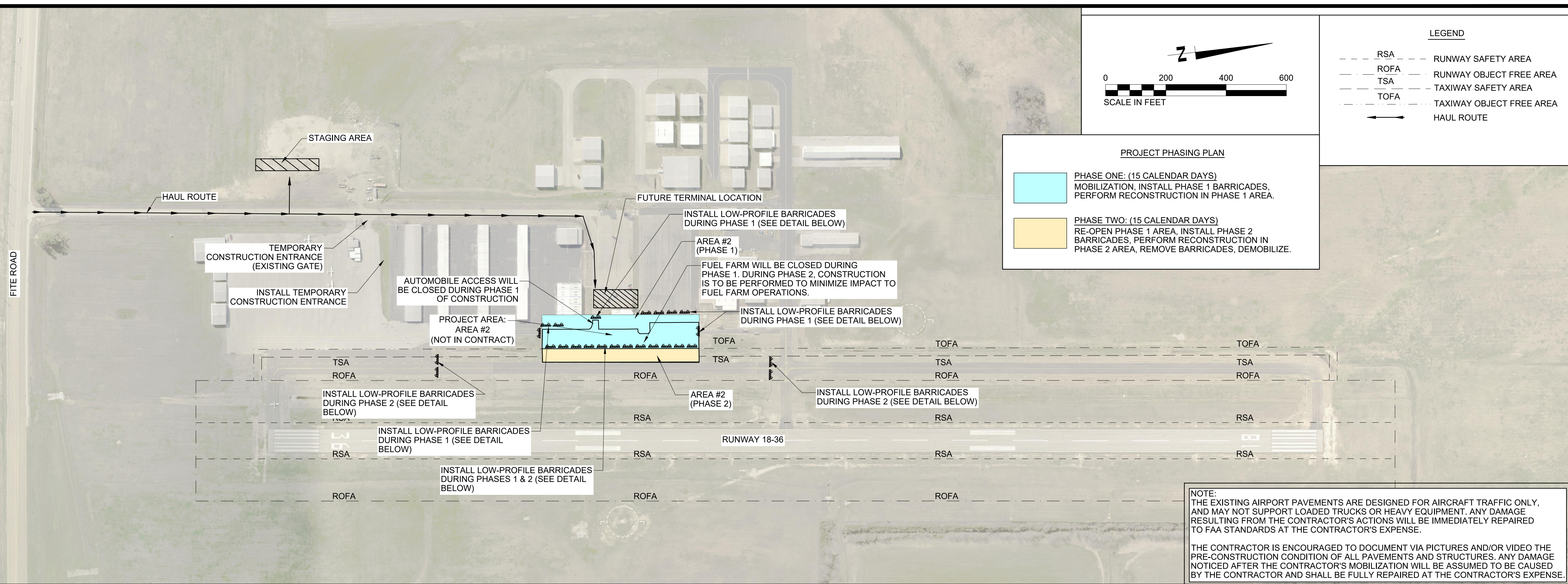
MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **CONSTRUCTION SAFETY & PHASING PLAN (AREA 1)**

DWG. FILE NAME: 3327602-11C-SF-01.DWG  
DATE: 03/11/2024  
SCALE: 1"=200'

SHEET NO. **C-SF-01**  
SHEET 3 OF 47



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- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH SUCH ROTATING OR FLASHING AMBER LIGHTS, AND HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.

- THE CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE CONSTRUCTION FENCING WITH BARRELS AND WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
- ALL VEHICLES BELONGING TO THE FOREMAN AND SUPERINTENDENT SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR WILL NOT BE ALLOWED ON ANY FAA FREQUENCY.
- ALL CONSTRUCTION TRAFFIC WHICH CROSSES AIRPORT OPERATIONAL SAFETY AREAS MUST BE CONTROLLED BY FLAGMEN. ALL FLAGMEN CONTROLLING CONSTRUCTION TRAFFIC ACROSS AIRPORT OPERATIONAL AREAS SHALL ALSO BE EQUIPPED WITH A RADIO WHICH WILL OPERATE ON THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ.
- CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) RADIOS CAPABLE OF OPERATING ON 122.80 MHZ ON THE PROJECT SITE FOR CONTRACTOR USE AT ALL TIMES DURING CONSTRUCTION.
- ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
- DEBRIS, WASTE, AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE MOBILIZATION LINE ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB. ALL AREAS INSIDE THE PERIMETER FENCE ARE RESTRICTED. PERSONNEL ARE ONLY AUTHORIZED IN CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED END-TO-END ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCLUDED IN THE "AIRFIELD BARRICADES" PAY ITEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS.
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- THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.

- CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
- ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING, AND MATERIAL STORAGE SHALL BE RESTORED TO ORIGINAL CONDITION WHEN ALL CONSTRUCTION IS COMPLETED.
- THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES OR VIDEO THE PRECONSTRUCTION CONDITION OF ALL AIRPORT PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR TO BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS, AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
- GATES AT CONSTRUCTION ENTRANCES SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES WHEN THE ENTRANCE IS NOT IN USE BY CONSTRUCTION PERSONNEL. GATES TO BE MANNED BY CONTRACTOR PERSONNEL WHEN OPEN.
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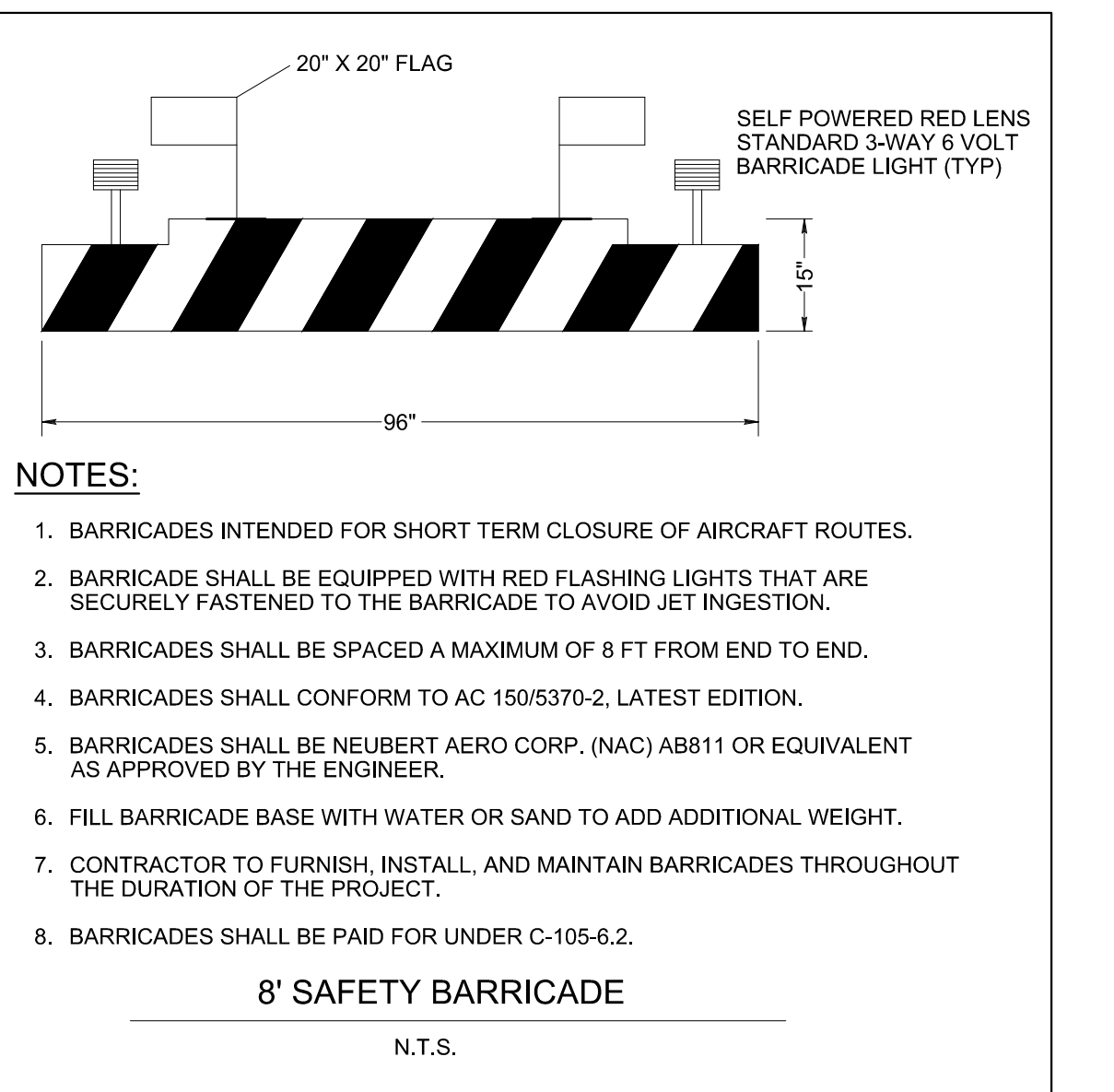
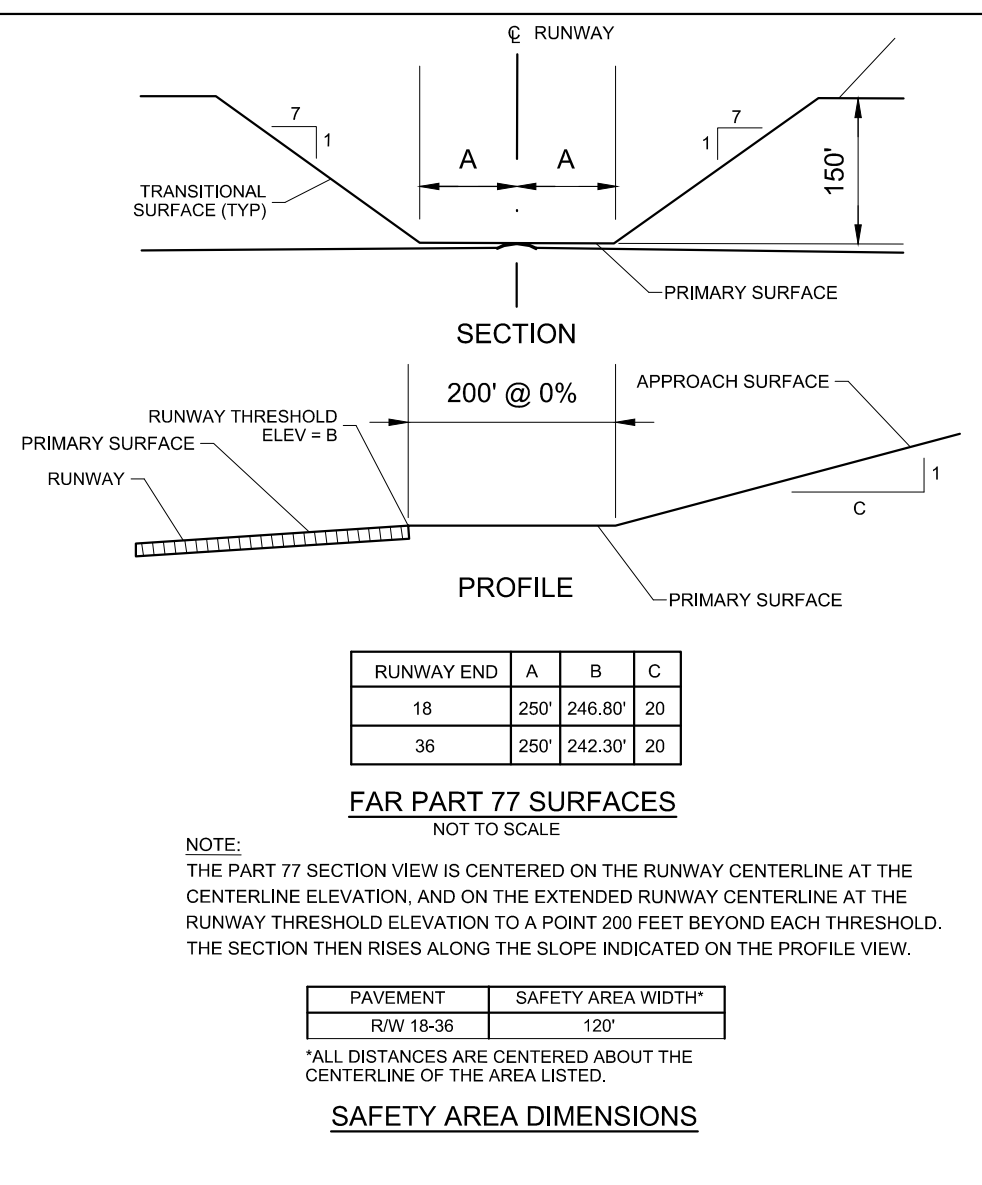
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MEDICAL: (901) 516-5200

**UTILITY CONTACTS**  
MLGW: (901) 528-4270

**LIQUIDATED DAMAGES**  
\$2,000 PER CALENDAR DAY

**CONTRACT TIME**  
30 CALENDAR DAYS



PROGRAM MANAGER  
**JEM**

ENGINEER  
**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY: **JEM**

CHECKED BY: **JDG**

APPROVED BY: **JEG**

**NOT IN CONTRACT**

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **CONSTRUCTION SAFETY & PHASING PLAN (AREA 2)**

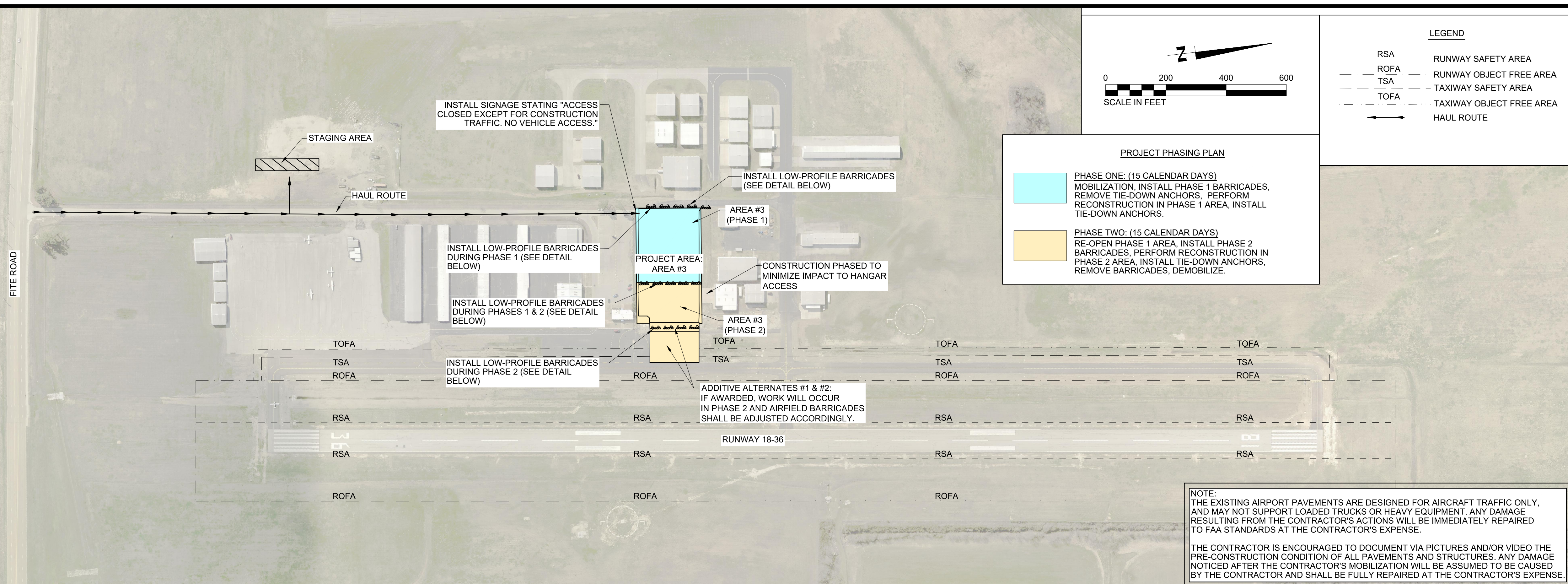
DWG. FILE NAME: **3327602-12C-SF-02.DWG**

DATE: **03/11/2024**

SCALE: **1"=200'**

SHEET NO. **C-SF-02**

4 OF 47



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

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

**SAFETY NOTES**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NO LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIR MISSIONS" (NOTAM) OF THE CONSTRUCTION ACTIVITIES.
- AIRPORT OPERATION SAFETY AREAS ARE DEFINED AS FOLLOWS:
  - RUNWAY 18-36 RSA - 60 FEET FROM THE CENTERLINE OF PAVEMENT AND 240 FEET BEYOND RUNWAY END. (RSA)
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  - TAXIWAY OBJECT FREE AREA - 62' FROM CENTERLINE OF PAVEMENT. (TOFA)
  - TAXILANE OBJECT FREE AREA - 55' FROM CENTERLINE OF PAVEMENT. (TLOFA)
- NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
- THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY, TAXIWAYS, OR MAIN APRON UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
- THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
- THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA, AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
- THE CONTRACTOR SHALL HAVE AN INDIVIDUAL ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING, BARRICADES, AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF WORK.
- THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER-APPROVED ESCORT.
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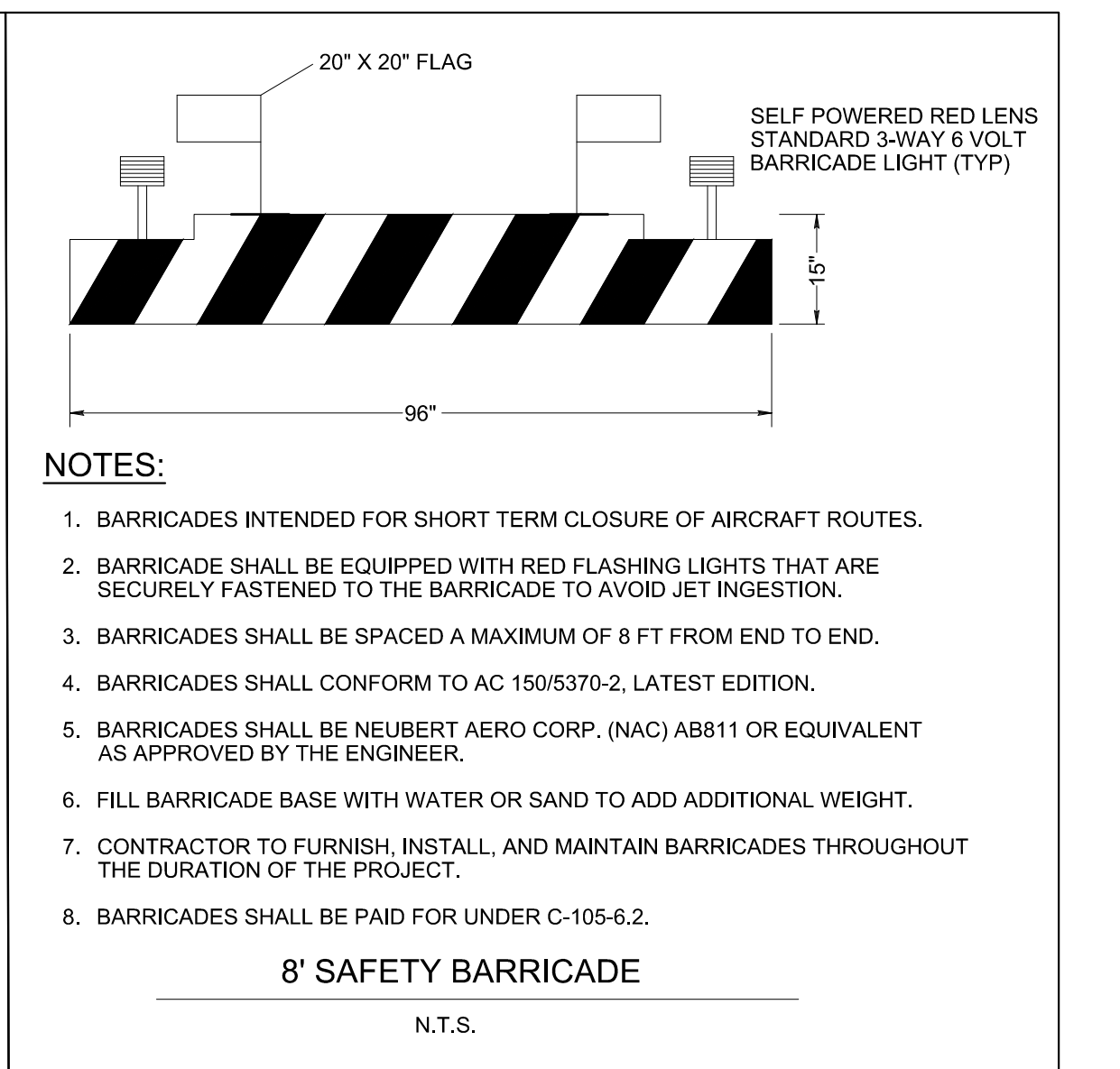
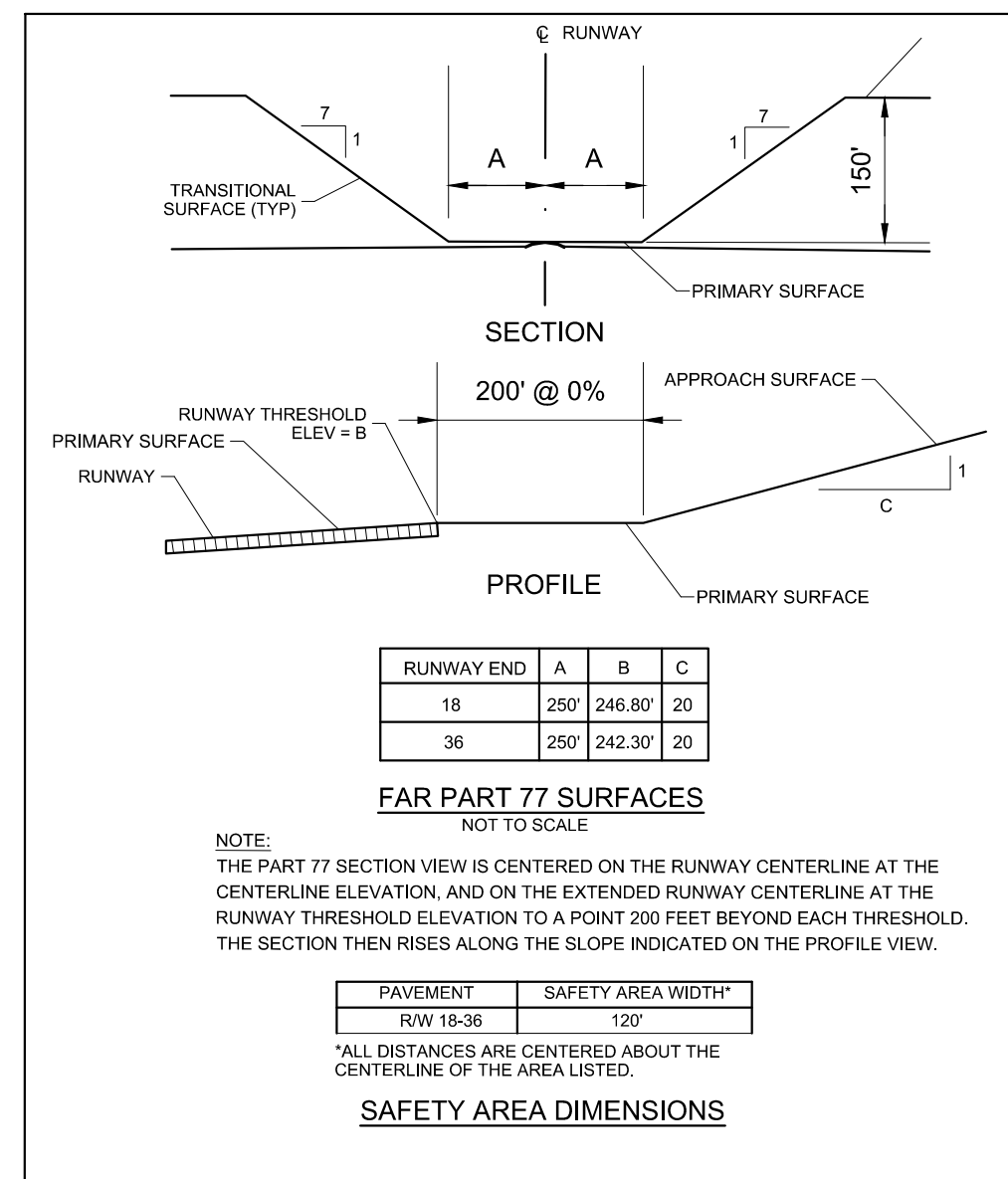
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**LIQUIDATED DAMAGES**  
\$2,000 PER CALENDAR DAY

**CONTRACT TIME**  
30 CALENDAR DAYS



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JOB NO. 33276-02

DRAWN BY: JEM  
CHECKED BY: JDG  
APPROVED BY: JEG

REGISTERED ENGINEER  
JAMES E. MALONE  
AGRICULTURE  
No. 11671  
STATE OF TENNESSEE  
03/11/2024

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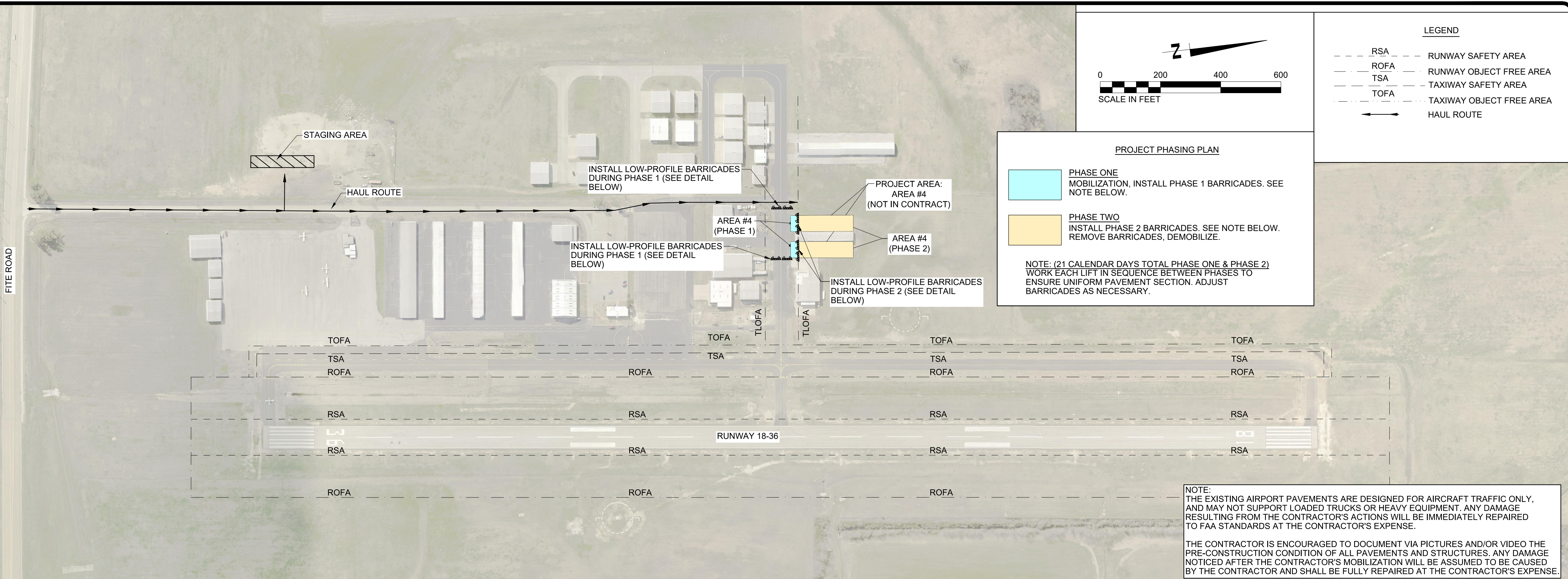
MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: CONSTRUCTION SAFETY & PHASING PLAN (AREA 3)

DWG. FILE NAME: 3327602-13C-SF-03.DWG  
DATE: 03/11/2024  
SCALE: 1"=200'

SHEET NO. C-SF-03  
SHEET 5 OF 47



**SAFETY NOTES**

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  - ADVISORY CIRCULAR NUMBER 150/5210-5-2 (LATEST EDITION), "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
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- AIRCRAFT OPERATIONS SHALL, AT ALL TIMES, HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT, AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN CONTRACTOR PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH SUCH ROTATING OR FLASHING AMBER LIGHTS, AND HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.

- THE CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE CONSTRUCTION FENCING WITH BARRELS AND WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
- ALL VEHICLES BELONGING TO THE FOREMAN AND SUPERINTENDENT SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR WILL NOT BE ALLOWED ON ANY FAA FREQUENCY.
- ALL CONSTRUCTION TRAFFIC WHICH CROSSES AIRPORT OPERATIONAL SAFETY AREAS MUST BE CONTROLLED BY FLAGMEN. ALL FLAGMEN CONTROLLING CONSTRUCTION TRAFFIC ACROSS AIRPORT OPERATIONAL AREAS SHALL ALSO BE EQUIPPED WITH A RADIO WHICH WILL OPERATE ON THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ.
- CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) RADIOS CAPABLE OF OPERATING ON 122.80 MHZ ON THE PROJECT SITE FOR CONTRACTOR USE AT ALL TIMES DURING CONSTRUCTION.
- ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
- DEBRIS, WASTE, AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE MOBILIZATION LINE ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB. ALL AREAS INSIDE THE PERIMETER FENCE ARE RESTRICTED. PERSONNEL ARE ONLY AUTHORIZED IN CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED END-TO-END ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCLUDED IN THE "AIRFIELD BARRICADES" PAY ITEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS.
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- THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.

- CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
- ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING, AND MATERIAL STORAGE SHALL BE RESTORED TO ORIGINAL CONDITION WHEN ALL CONSTRUCTION IS COMPLETED.
- THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES OR VIDEO THE PRECONSTRUCTION CONDITION OF ALL AIRPORT PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR TO BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS, AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
- GATES AT CONSTRUCTION ENTRANCES SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES WHEN THE ENTRANCE IS NOT IN USE BY CONSTRUCTION PERSONNEL. GATES TO BE MANNED BY CONTRACTOR PERSONNEL WHEN OPEN.
- CONTRACTOR SHALL SUBMIT MSCAA & FAA UTILITY LOCATE REQUEST FORM PRIOR TO EXECUTION.
- CONTRACTOR SHALL PREPARE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT DETAIL HOW THE CONTRACTOR WILL COMPLY WITH THE CONSTRUCTION SAFETY & PHASING PLAN (CSPP). THE SPCD MUST BE APPROVED BY THE AIRPORT OPERATOR PRIOR TO THE ISSUANCE OF A NOTICE TO PROCEED.



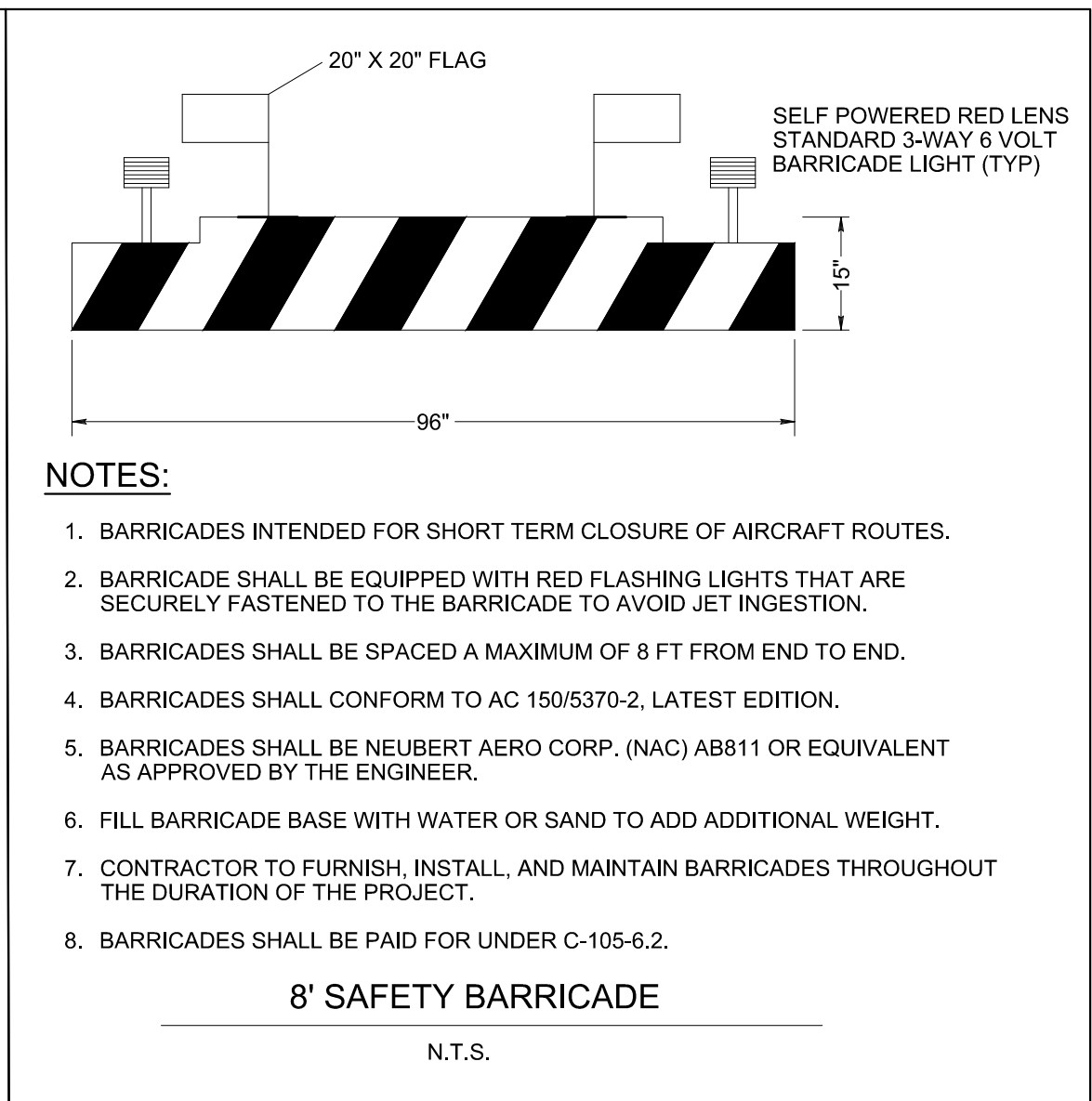
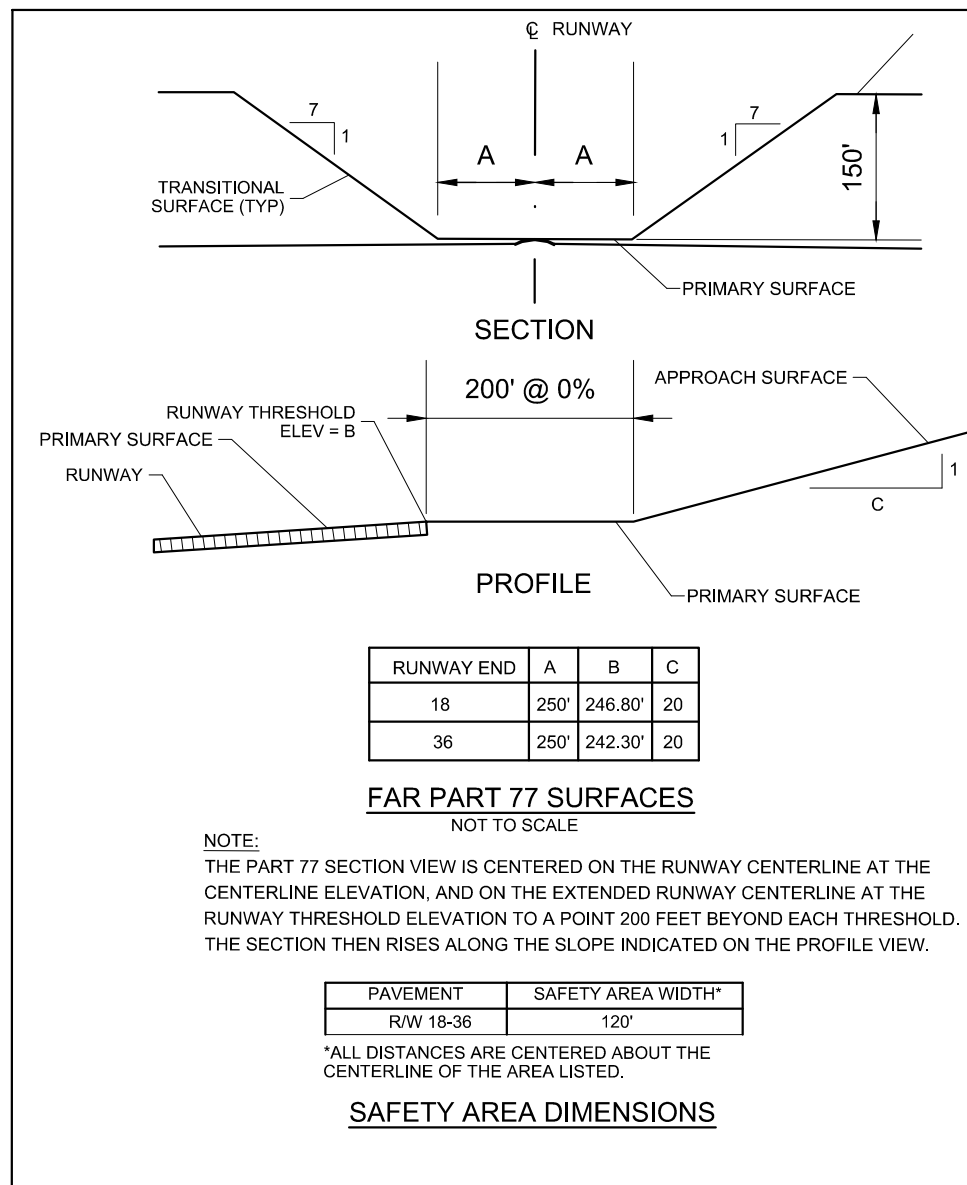
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FIRE DEPARTMENT: (901) 873-5800  
AIRPORT: (901) 358-0028  
MEDICAL: (901) 516-5200

**UTILITY CONTACTS**  
MLGW: (901) 528-4270

**LIQUIDATED DAMAGES**  
\$2,000 PER CALENDAR DAY

**CONTRACT TIME**  
21 CALENDAR DAYS



- NOTES:**
- BARRICADES INTENDED FOR SHORT TERM CLOSURE OF AIRCRAFT ROUTES.
  - BARRICADE SHALL BE EQUIPPED WITH RED FLASHING LIGHTS THAT ARE SECURELY FASTENED TO THE BARRICADE TO AVOID JET INGESTION.
  - BARRICADES SHALL BE SPACED A MAXIMUM OF 8 FT FROM END TO END.
  - BARRICADES SHALL CONFORM TO AC 150/5370-2, LATEST EDITION.
  - BARRICADES SHALL BE NEUBERT AERO CORP. (NAC) AB811 OR EQUIVALENT AS APPROVED BY THE ENGINEER.
  - FILL BARRICADE BASE WITH WATER OR SAND TO ADD ADDITIONAL WEIGHT.
  - CONTRACTOR TO FURNISH, INSTALL, AND MAINTAIN BARRICADES THROUGHOUT THE DURATION OF THE PROJECT.
  - BARRICADES SHALL BE PAID FOR UNDER C-105-6.2.



PROGRAM MANAGER

ENGINEER  
**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:  
**JEM**

CHECKED BY:  
**JDG**

APPROVED BY:  
**JEG**

**NOT IN CONTRACT**

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**REVISIONS**

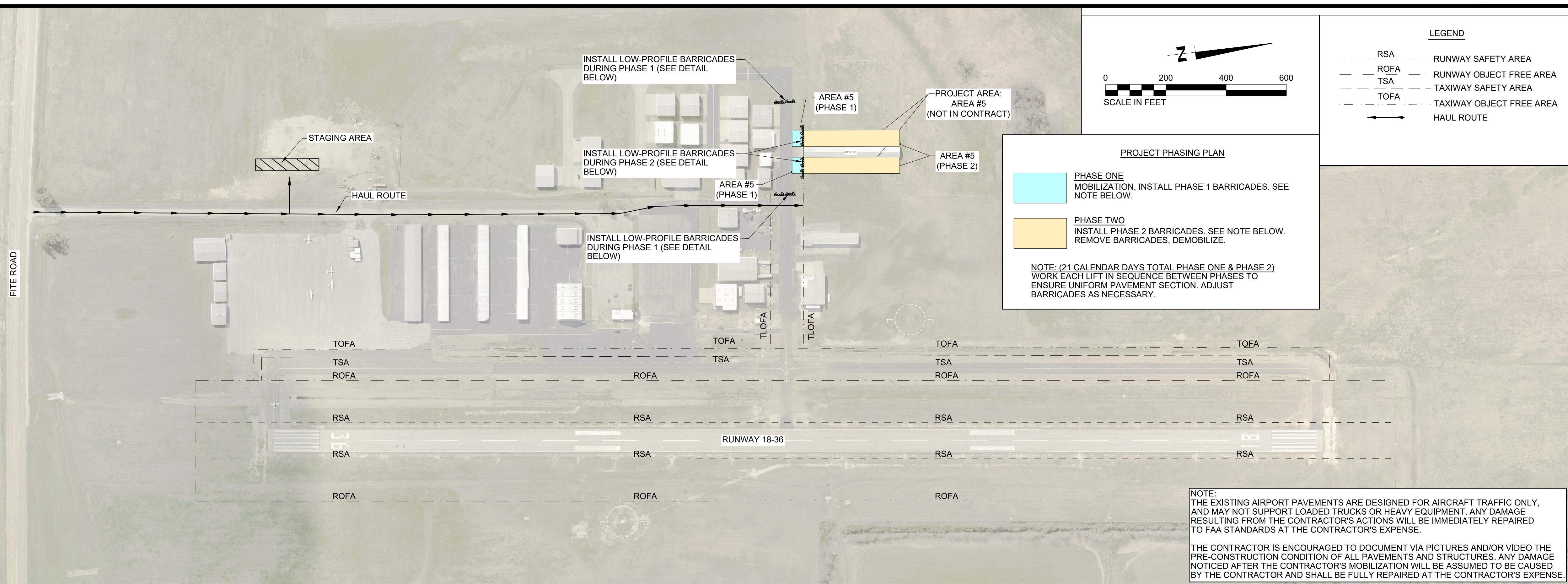
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **CONSTRUCTION SAFETY & PHASING PLAN (AREA 4)**

DWG. FILE NAME: **3327602-14C-SF-04.DWG**  
DATE: **03/11/2024**  
SCALE: **1"=200'**  
SHEET NO.: **C-SF-04**  
SHEET: **6** OF 47



**PROJECT PHASING PLAN**

- PHASE ONE** (Light Blue): MOBILIZATION, INSTALL PHASE 1 BARRICADES. SEE NOTE BELOW.
- PHASE TWO** (Yellow): INSTALL PHASE 2 BARRICADES. SEE NOTE BELOW. REMOVE BARRICADES, DEMOBILIZE.

**NOTE: (21 CALENDAR DAYS TOTAL PHASE ONE & PHASE 2)**  
WORK EACH LIFT IN SEQUENCE BETWEEN PHASES TO ENSURE UNIFORM PAVEMENT SECTION. ADJUST BARRICADES AS NECESSARY.

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

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

**SAFETY NOTES**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NO LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIR MISSIONS" (NOTAM) OF THE CONSTRUCTION ACTIVITIES.
- AIRPORT OPERATION SAFETY AREAS ARE DEFINED AS FOLLOWS:
  - RUNWAY 18-36 RSA - 60 FEET FROM THE CENTERLINE OF PAVEMENT AND 240 FEET BEYOND RUNWAY END. (RSA)
  - RUNWAY 18-36 OFA - 200 FEET FROM THE CENTERLINE OF PAVEMENT AND 240 FEET BEYOND RUNWAY END. (ROFA)
  - TAXIWAY SAFETY AREA - 39.5' FROM CENTERLINE OF PAVEMENT. (TSA)
  - TAXIWAY OBJECT FREE AREA - 62' FROM CENTERLINE OF PAVEMENT. (TOFA)
  - TAXILANE OBJECT FREE AREA - 55' FROM CENTERLINE OF PAVEMENT. (TLOFA)
- NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
- THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY, TAXIWAYS, OR MAIN APRON UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
- THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
- THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA, AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
- THE CONTRACTOR SHALL HAVE AN INDIVIDUAL ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING, BARRICADES, AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF WORK.
- THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER-APPROVED ESCORT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON LINE AT [HTTP://WWW.FAA.GOV](http://www.faa.gov):
  - ADVISORY CIRCULAR NUMBER 150/5370-10 (LATEST EDITION), "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
  - ADVISORY CIRCULAR NUMBER 150/5370-2 (LATEST EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
  - ADVISORY CIRCULAR NUMBER 150/5210-5-2 (LATEST EDITION), "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
- THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION, CONSTRUCTION ACTIVITIES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
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- THE CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE CONSTRUCTION FENCING WITH BARRELS AND WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB. ALL AREAS INSIDE THE PERIMETER FENCE ARE RESTRICTED. PERSONNEL ARE ONLY AUTHORIZED IN CONSTRUCTION AREAS.
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- CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
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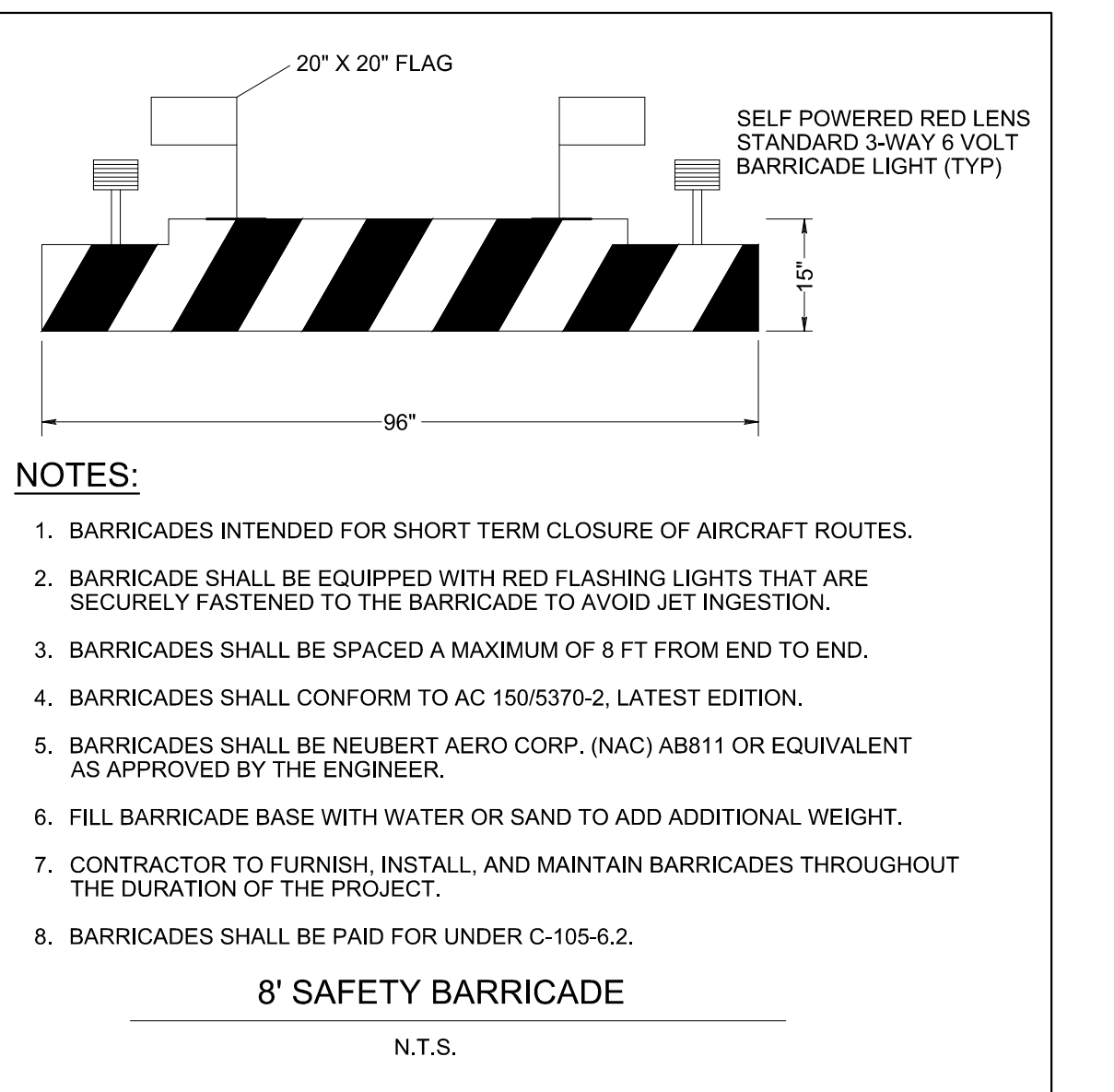
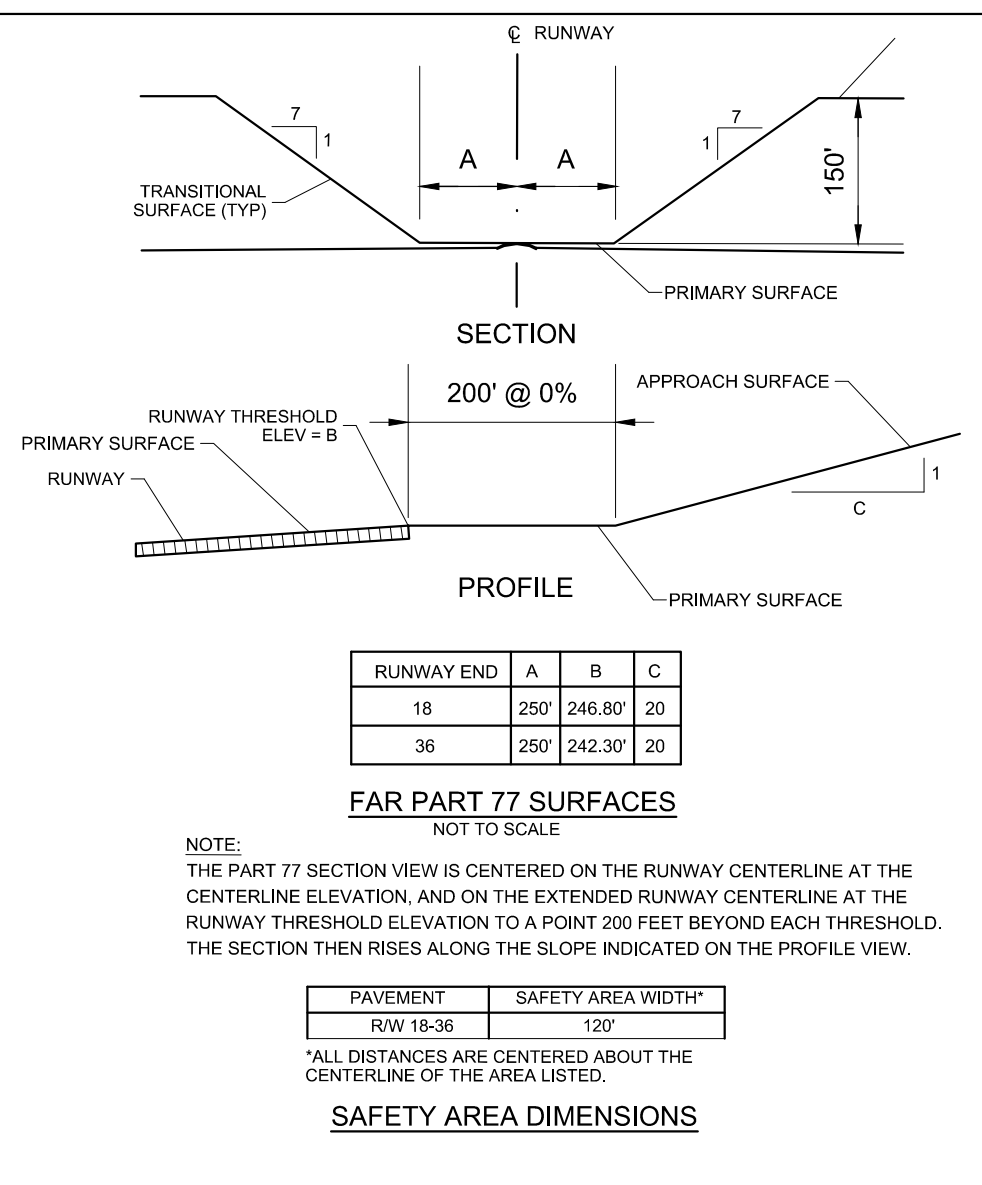
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AIRPORT: (901) 358-0028  
MEDICAL: (901) 516-5200

**UTILITY CONTACTS**  
MLGW: (901) 528-4270

**LIQUIDATED DAMAGES**  
\$2,000 PER CALENDAR DAY

**CONTRACT TIME**  
21 CALENDAR DAYS



Memphis INTERNATIONAL AIRPORT

PROGRAM MANAGER

ENGINEER  
**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JBG

APPROVED BY: JEG

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MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: CONSTRUCTION SAFETY & PHASING PLAN (AREA 5)

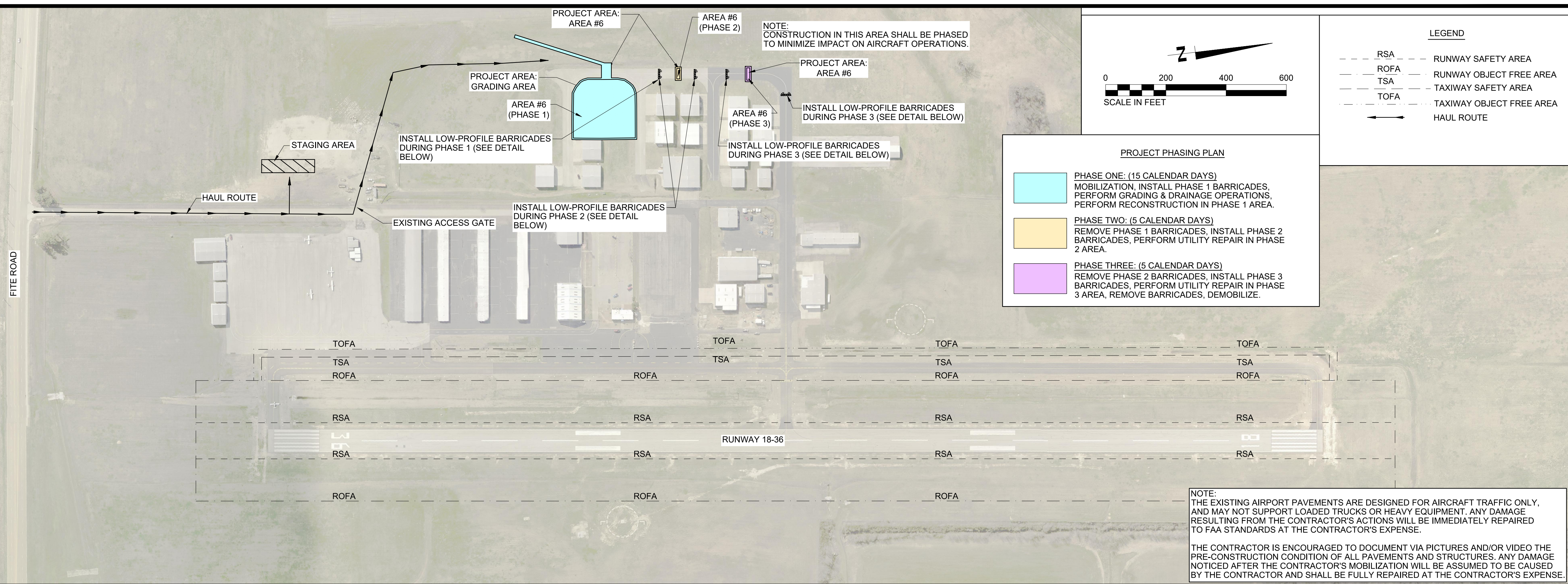
DWG. FILE NAME: 3327602-15C-SF-05.DWG

DATE: 03/11/2024

SCALE: 1"=200'

SHEET NO. C-SF-05

7 OF 47



**SAFETY NOTES**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NO LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIR MISSIONS" (NOTAM) OF THE CONSTRUCTION ACTIVITIES.
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- THE CONTRACTOR SHALL HAVE AN INDIVIDUAL ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING, BARRICADES, AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF WORK.
- THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER-APPROVED ESCORT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON LINE AT [HTTP://WWW.FAA.GOV](http://www.faa.gov):
  - ADVISORY CIRCULAR NUMBER 150/5370-10 (LATEST EDITION), "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
  - ADVISORY CIRCULAR NUMBER 150/5370-2 (LATEST EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
  - ADVISORY CIRCULAR NUMBER 150/5210-5-2 (LATEST EDITION), "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
- THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION, CONSTRUCTION ACTIVITIES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
- AIRCRAFT OPERATIONS SHALL, AT ALL TIMES, HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT, AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN CONTRACTOR PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH SUCH ROTATING OR FLASHING AMBER LIGHTS, AND HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.

- THE CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE CONSTRUCTION FENCING WITH BARRELS AND WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
- ALL VEHICLES BELONGING TO THE FOREMAN AND SUPERINTENDENT SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR WILL NOT BE ALLOWED ON ANY FAA FREQUENCY.
- ALL CONSTRUCTION TRAFFIC WHICH CROSSES AIRPORT OPERATIONAL SAFETY AREAS MUST BE CONTROLLED BY FLAGMEN. ALL FLAGMEN CONTROLLING CONSTRUCTION TRAFFIC ACROSS AIRPORT OPERATIONAL AREAS SHALL ALSO BE EQUIPPED WITH A RADIO WHICH WILL OPERATE ON THE UNICOM/CTAF FREQUENCY OF 122.80 MHZ.
- CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) RADIOS CAPABLE OF OPERATING ON 122.80 MHZ ON THE PROJECT SITE FOR CONTRACTOR USE AT ALL TIMES DURING CONSTRUCTION.
- ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
- DEBRIS, WASTE, AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE MOBILIZATION LINE ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB. ALL AREAS INSIDE THE PERIMETER FENCE ARE RESTRICTED. PERSONNEL ARE ONLY AUTHORIZED IN CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED END-TO-END ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCLUDED IN THE "AIRFIELD BARRICADES" PAY ITEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS.
- THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.

- CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
- ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING, AND MATERIAL STORAGE SHALL BE RESTORED TO ORIGINAL CONDITION WHEN ALL CONSTRUCTION IS COMPLETED.
- THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES OR VIDEO THE PRECONSTRUCTION CONDITION OF ALL AIRPORT PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR TO BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS, AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
- GATES AT CONSTRUCTION ENTRANCES SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES WHEN THE ENTRANCE IS NOT IN USE BY CONSTRUCTION PERSONNEL. GATES TO BE MANNED BY CONTRACTOR PERSONNEL WHEN OPEN.
- CONTRACTOR SHALL SUBMIT MSCAA & FAA UTILITY LOCATE REQUEST FORM PRIOR TO EXECUTION.
- CONTRACTOR SHALL PREPARE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT DETAIL HOW THE CONTRACTOR WILL COMPLY WITH THE CONSTRUCTION SAFETY & PHASING PLAN (CSPP). THE SPCD MUST BE APPROVED BY THE AIRPORT OPERATOR PRIOR TO THE ISSUANCE OF A NOTICE TO PROCEED.

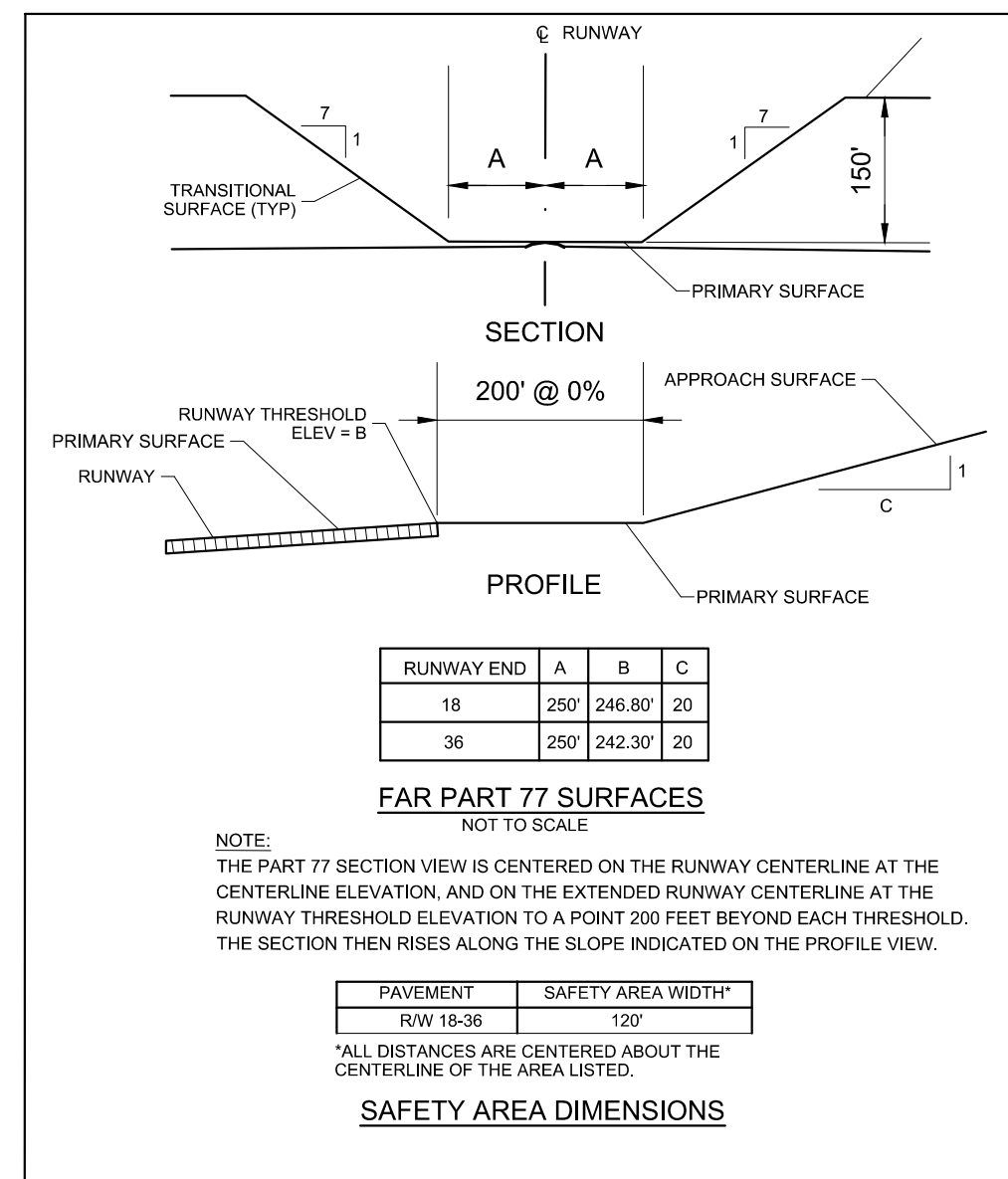
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 EMERGENCY: 911  
 MILLINGTON POLICE DEPT: (901) 872-3333  
 FIRE DEPARTMENT: (901) 873-5800  
 AIRPORT: (901) 358-0028  
 MEDICAL: (901) 516-5200

**UTILITY CONTACTS**  
 MLGW: (901) 528-4270

**LIQUIDATED DAMAGES**  
 \$2,000 PER CALENDAR DAY

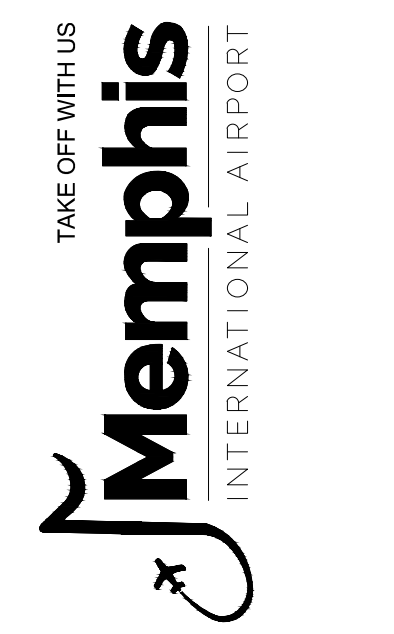
**CONTRACT TIME**  
 25 CALENDAR DAYS



**NOTES:**

- BARRICADES INTENDED FOR SHORT TERM CLOSURE OF AIRCRAFT ROUTES.
- BARRICADE SHALL BE EQUIPPED WITH RED FLASHING LIGHTS THAT ARE SECURELY FASTENED TO THE BARRICADE TO AVOID JET INGESTION.
- BARRICADES SHALL BE SPACED A MAXIMUM OF 8 FT FROM END TO END.
- BARRICADES SHALL CONFORM TO AC 150/5370-2, LATEST EDITION.
- BARRICADES SHALL BE NEUBERT AERO CORP. (NAC) AB811 OR EQUIVALENT AS APPROVED BY THE ENGINEER.
- FILL BARRICADE BASE WITH WATER OR SAND TO ADD ADDITIONAL WEIGHT.
- CONTRACTOR TO FURNISH, INSTALL, AND MAINTAIN BARRICADES THROUGHOUT THE DURATION OF THE PROJECT.
- BARRICADES SHALL BE PAID FOR UNDER C-105-6.2.

**8' SAFETY BARRICADE**  
 N.T.S.



PROGRAM MANAGER

ENGINEER  
**BARGE DESIGN SOLUTIONS, INC.**  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY: **JEM**

CHECKED BY: **JDG**

APPROVED BY: **JEG**

**MEMPHIS INTERNATIONAL AIRPORT**  
 ENGINEER  
 JAMES E. MALONE  
 REGISTERED ENGINEER  
 AGRICULTURE  
 No. 111671  
 STATE OF TENNESSEE  
 12/18/2024

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO.  
**18-1420-01**

PROJECT:  
**CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE:  
**CONSTRUCTION SAFETY & PHASING PLAN (AREA 6)**

DWG. FILE NAME  
**3327602-16C-SF-06.DWG**

DATE  
 03/11/2024

SCALE  
 1"=200'

SHEET NO.  
**C-SF-06**

SHEET  
 8 OF 47



SUMMARY OF QUANTITIES

AREA 1 - NOT IN CONTRACT				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	2,218		LF
C-102-5.2	INLET PROTECTION (INSTALLATION & REMOVAL)	12		EA
C-102-5.3	WEIGHTED WATTLES (INSTALLATION & REMOVAL)	474		LF
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	425		LF
P-101-5.2	STORM DRAIN INLET DEMOLITION	6		EA
P-101-5.3	STORM DRAIN PIPE DEMOLITION	565		LF
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	100		CY
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	19,396		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	1,800		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	3,000		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	5,818		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	1,940		GAL
P-620-5.1	PAVEMENT MARKING, REFLECTIVE YELLOW	275		SF
P-620-5.2	PAVEMENT MARKING, NON-REFLECTIVE WHITE	1,263		SF
P-620-5.3	PAVEMENT MARKING, NON-REFLECTIVE YELLOW	409		SF
D-701-5.2	18 INCH RCP (CLASS III)	977		LF
D-751-5.1	INLET #10	7		EA
D-751-5.2	CONNECT TO EXISTING DRAINAGE STRUCTURE	4		EA
T-904-5.1	SODDING	2,034		SY

AREA 2 - NOT IN CONTRACT				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	178		LF
C-102-5.2	INLET PROTECTION (INSTALLATION & REMOVAL)	1		EA
C-102-5.3	WEIGHTED WATTLES (INSTALLATION & REMOVAL)	310		LF
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	889		LF
P-101-5.4	TIE DOWN REMOVAL	13		EA
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	100		CY
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	4,997		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	470		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	784		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	1,471		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	503		GAL
P-610-6.1	AIRCRAFT TIEDOWNS	14		EA
P-620-5.2	PAVEMENT MARKING, NON-REFLECTIVE WHITE	351		SF
P-620-5.3	PAVEMENT MARKING, NON-REFLECTIVE YELLOW	185		SF
T-904-5.1	SODDING	35		SY

BASE BID: AREA 3				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	1,332		LF
C-102-5.2	INLET PROTECTION (INSTALLATION & REMOVAL)	1		EA
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	437		LF
P-101-5.4	TIE DOWN REMOVAL	36		EA
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	100		CY
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	8,347		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	775		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	1,291		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	2,504		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	418		GAL
P-610-6.1	AIRCRAFT TIE-DOWNS	36		EA
P-620-5.1	PAVEMENT MARKING, REFLECTIVE YELLOW	246		SF
P-620-5.3	PAVEMENT MARKING, NON-REFLECTIVE YELLOW	246		SF
T-904-5.1	SODDING	2,051		SY

AREA 4 - NOT IN CONTRACT				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	1,040		LF
C-102-5.2	INLET PROTECTION (INSTALLATION & REMOVAL)	1		EA
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	94		LF
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	100		CY
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	2,392		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	222		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	370		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	718		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	240		GAL
D-751-5.1	INLET #10	1		EA
T-904-5.1	SODDING	130		SY

AREA 5 - NOT IN CONTRACT				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	1,350		LF
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	67		LF
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	100		CY
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	4,102		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	380		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	635		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	1,296		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	410		GAL
T-904-5.1	SODDING	185		SY

BASE BID: AREA 6				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1		LS
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	1,922		LF
C-102-5.2	INLET PROTECTION (INSTALLATION & REMOVAL)	3		EA
C-102-5.4	TEMPORARY CONSTRUCTION EXIT (INSTALLATION & REMOVAL)	1		LS
C-105-6.1	MOBILIZATION	1		LS
C-105-6.2	AIRFIELD BARRICADES	1		LS
P-101-5.1	SAW-CUT ASPHALT	217		LF
P-101-5.5	UTILITY CUT REPAIR (6" CRUSHED AGGREGATE, 4" HMA)	1		LS
P-101-5.6	MARKING REMOVAL	2,020		SF
P-152-4.1	UNCLASSIFIED EXCAVATION (INCLUDES STRIPPING & REPLACING TOPSOIL)	200		CY
P-620-5.1	PAVEMENT MARKING, REFLECTIVE YELLOW	1,010		SF
P-620-5.3	PAVEMENT MARKING, NON-REFLECTIVE YELLOW	1,010		SF
D-701-5.1	22X13.5 INCH RCP ARCH PIPE (CLASS III)	660		LF
D-751-5.2	CONNECT TO EXISTING DRAINAGE STRUCTURE	1		EA
D-751-5.3	3X3' INLET	2		EA
D-752-5.1	22X13.5 INCH CONCRETE HEADWALL	1		EA
T-904-5.1	SODDING	7,460		SY

ADDITIVE ALTERNATE #1				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	21		LF
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	556		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	48		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	80		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	223		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	56		GAL

ADDITIVE ALTERNATE #2				
ITEM	DESCRIPTION	BID QUANTITY	FINAL QUANTITY	UNIT
C-102-5.1	EROSION CONTROL SILT FENCE (INSTALLATION & REMOVAL)	102		LF
C-102-5.3	WEIGHTED WATTLES (INSTALLATION & REMOVAL)	268		LF
P-101-5.1	SAW-CUT ASPHALT	102		LF
P-101-5.4	TIE DOWN REMOVAL	14		EA
P-207-5.1	IN-PLACE FULL DEPTH RECYCLED (FDR) ASPHALT AGGREGATE BASE COURSE (8" COMPACTED THICKNESS)	1,838		SY
P-403-8.1	ASPHALT SURFACE COURSE (1.5" COMPACTED THICKNESS)	185		TONS
P-403-8.2	ASPHALT BINDER COURSE (2.5" COMPACTED THICKNESS)	285		TONS
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	492		GAL
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	186		GAL
P-610-6.1	AIRCRAFT TIEDOWNS	13		EA
P-620-5.2	PAVEMENT MARKING, NON-REFLECTIVE WHITE	14		SF
P-620-5.3	PAVEMENT MARKING, NON-REFLECTIVE YELLOW	82		SF
T-904-5.1	SODDING	35		SY

**NOTE: AREA 1, AREA 2, AREA 4, AND AREA 5 ARE SHOWN FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THIS CONTRACT. ONLY AREA 3, AREA 6, ADDITIVE ALTERNATE #1, AND ADDITIVE ALTERNATE #2 WILL BE PART OF THIS CONTRACT.**

GENERAL NOTES:

- THE CONTRACTOR MUST SCHEDULE OPERATIONS IN ORDER TO COMPLETE CONSTRUCTION IN THE OVERALL TIME LIMIT SPECIFIED. CONTRACTOR IS TO PREPARE A CONSTRUCTION SCHEDULE TO INCLUDE THE PROPOSED SEQUENCE OF CONSTRUCTION, AND BRING THE SCHEDULE TO THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY AGC OF AMERICA, INC. AND THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" ISSUED BY THE UNITED STATES DEPARTMENT OF LABOR. REFER TO MSCAA SAFETY MANUAL FOR ADDITIONAL SAFETY REQUIREMENTS.
- THE LOCATIONS OF UTILITIES (INCLUSIVE OF STORM DRAINS) SHOWN WITHIN THESE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL TENNESSEE ONE CALL AT 1-800-351-1111 (OR 811). CONTRACTOR SHALL ALSO CONTACT THE AIRPORT FOR UTILITY LOCATIONS.
- CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS.
- PROPOSED HAUL ROUTES AND STOCKPILE AREAS SHALL BE APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE AND THE OWNER PRIOR TO START OF WORK. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE PROJECT WORK AREA PER DESIGNATED HAUL ROUTES.
- CONTRACTOR SHALL REVIEW PROJECT CONSTRUCTION SAFETY PLAN AND BE FAMILIAR WITH ALL AIRPORT OPERATIONAL SAFETY AREAS. NO EQUIPMENT SHALL BE LEFT IN THE RUNWAY/TAXIWAY SAFETY/OBJECT FREE AREAS, AND LIGHTED BARRICADES SHALL BE PROVIDED AS REQUIRED.
- GENERAL CONTRACTOR SHALL HAVE AN AUTHORIZED JOB SUPERINTENDENT ON SITE WHENEVER WORK IS BEING PERFORMED BY ANY TRADE.
- CONTRACTOR IS REQUIRED TO FURNISH ALL STAKING REQUIRED FOR COMPLETION OF THE JOB. HORIZONTAL AND VERTICAL CONTROL ARE TO BE ESTABLISHED BY THE ENGINEER.
- IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIZATION OF AND THE MAINTENANCE OF ALL ACCESS AND HAUL ROUTES. ALL ACCESS AND HAUL ROUTES SHALL BE RETURNED TO THEIR ORIGINAL CONDITION, OR LEFT AS DESIRED BY THE OWNER, PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING PAVEMENTS, ON OR OFF THE AIRPORT PROPERTY, WHICH BECOME DAMAGED BY CONSTRUCTION TRAFFIC.
- THESE NOTES ARE INTENDED TO SUPPLEMENT PROJECT SPECIFICATIONS AND IN NO WAY INVALIDATE SPECIFICATIONS PROVIDED IN OTHER BID DOCUMENTS (GENERAL OR SPECIFIC REQUIREMENTS).
- SURPLUS MATERIAL NOT RETAINED BY THE AIRPORT AND NOT REQUIRED FOR SITE CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- COORDINATE ALL WORK WITH THE RPR. RPR WILL COORDINATE WITH AIRPORT MANAGER FOR APPROVAL.



PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:  
**JEM**

CHECKED BY:  
**JDG**

APPROVED BY:  
**JEG**



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REVISIONS

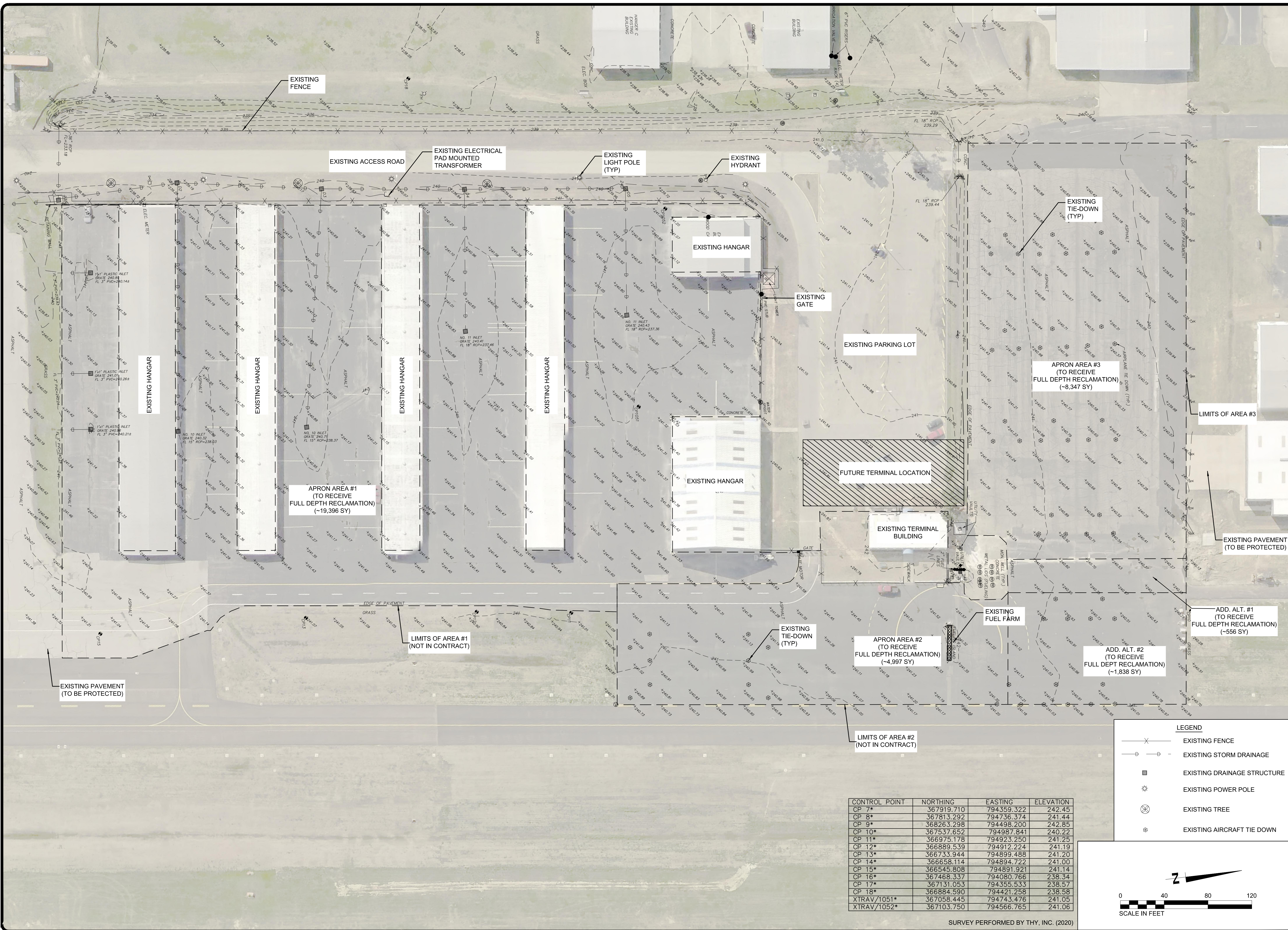
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **GENERAL NOTES AND SUMMARY OF QUANTITIES**

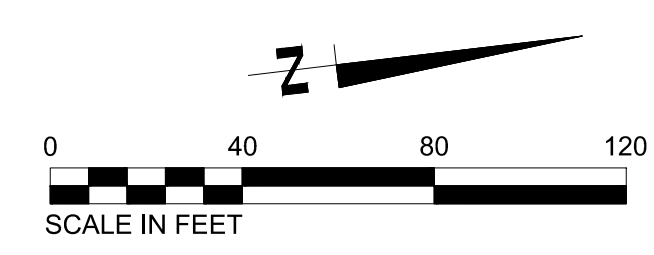
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DATE: **03/11/2024** SHEET NO.: **C-QT-01**  
SCALE: **N/A** SHEET: **9 OF 47**



CONTROL POINT	NORTHING	EASTING	ELEVATION
CP 7*	367919.710	794359.322	242.45
CP 8*	367813.292	794736.374	241.44
CP 9*	368263.298	794498.200	242.85
CP 10*	367537.652	794987.841	240.22
CP 11*	366975.178	794923.250	241.25
CP 12*	366889.539	794912.224	241.19
CP 13*	366733.944	794899.488	241.20
CP 14*	366658.114	794894.722	241.00
CP 15*	366545.808	794891.921	241.14
CP 16*	367468.337	794080.766	238.34
CP 17*	367131.053	794355.533	238.57
CP 18*	366884.590	794421.258	238.58
XTRAV/1051*	367058.445	794743.476	241.05
XTRAV/1052*	367103.750	794566.765	241.06

**LEGEND**

- X — EXISTING FENCE
- D — D — EXISTING STORM DRAINAGE
- EXISTING DRAINAGE STRUCTURE
- ⊙ EXISTING POWER POLE
- ⊗ EXISTING TREE
- ⊕ EXISTING AIRCRAFT TIE DOWN



SURVEY PERFORMED BY THY, INC. (2020)

PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY: **JEM**

CHECKED BY: **JDG**

APPROVED BY: **JEG**

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MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EXISTING CONDITIONS (AREAS 1, 2 & 3)**

DWG. FILE NAME: **3327602-31C-EX-01.DWG**

DATE: **03/11/2024**

SCALE: **1"=40'**

SHEET NO. **C-EX-01**

SHEET **10** OF **47**

PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:

**JEM**

CHECKED BY:

**JDG**

APPROVED BY:

**JEG**

**NOT IN CONTRACT**

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO.

**18-1420-01**

PROJECT:

**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:

**EXISTING  
 CONDITIONS  
 (AREAS 4 & 5)**

DWG. FILE NAME

**3327602-32C-EX-02.DWG**

DATE

**03/11/2024**

SHEET NO.

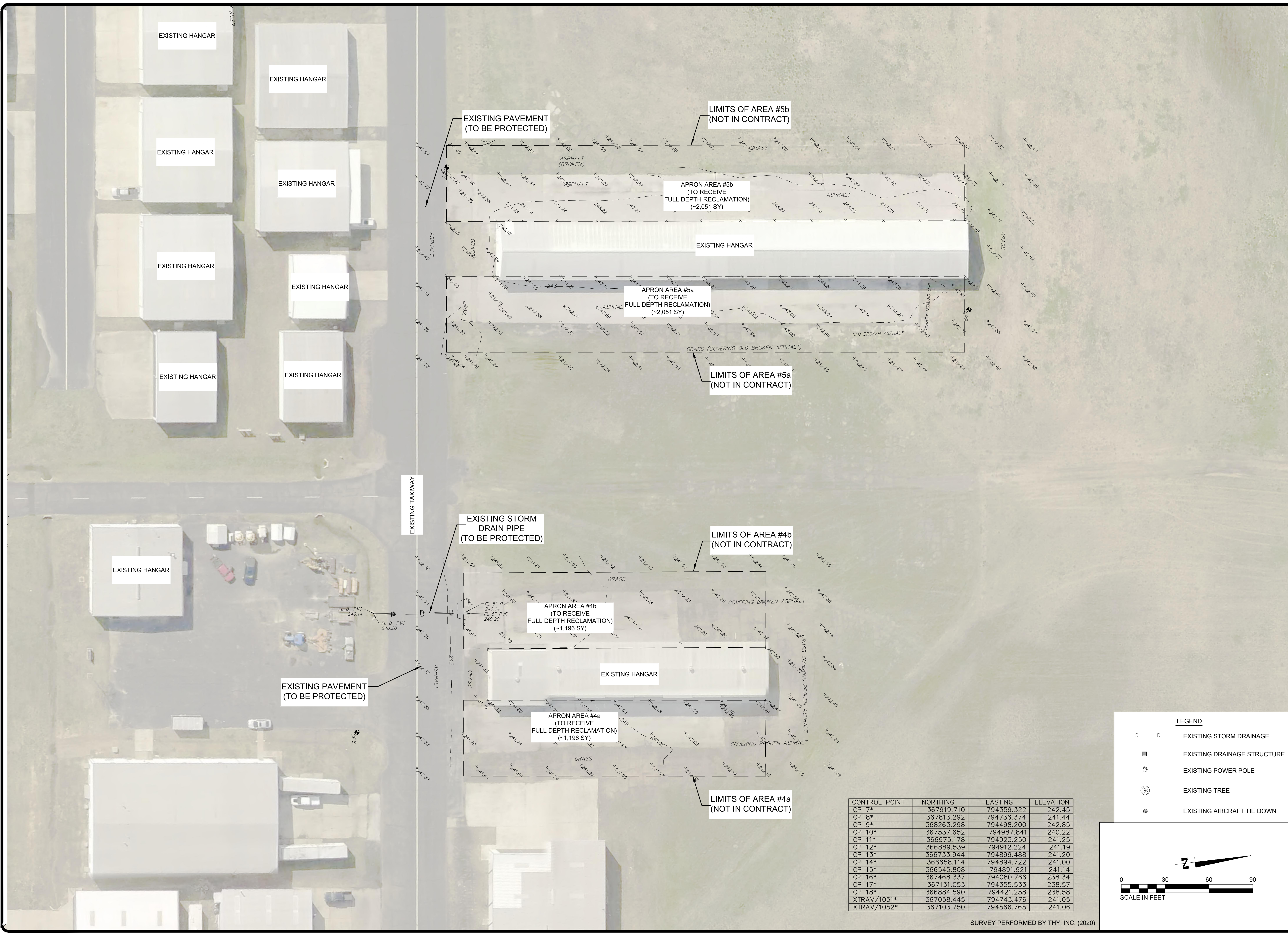
**C-EX-02**

SCALE

**1"=30'**

SHEET

**11 OF 47**



CONTROL POINT	NORTHING	EASTING	ELEVATION
CP 7*	367919.710	794359.322	242.45
CP 8*	367813.292	794736.374	241.44
CP 9*	368263.298	794498.200	242.85
CP 10*	367537.652	794987.841	240.22
CP 11*	366975.178	794923.250	241.25
CP 12*	366889.539	794912.224	241.19
CP 13*	366733.944	794899.488	241.20
CP 14*	366658.114	794894.722	241.00
CP 15*	366545.808	794891.921	241.14
CP 16*	367468.337	794080.766	238.34
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XTRAV/1051*	367058.445	794743.476	241.05
XTRAV/1052*	367103.750	794566.765	241.06

**LEGEND**

- — — — — EXISTING STORM DRAINAGE
- EXISTING DRAINAGE STRUCTURE
- ⊛ EXISTING POWER POLE
- ⊗ EXISTING TREE
- ⊙ EXISTING AIRCRAFT TIE DOWN

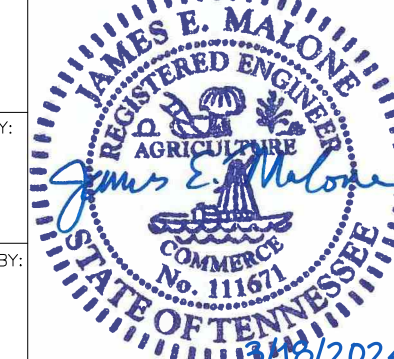
SCALE IN FEET

PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM  
 CHECKED BY: JDG  
 APPROVED BY: JEG



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REVISIONS		
MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER  
 PAVEMENT RECONSTRUCTION

SHEET TITLE: EXISTING CONDITIONS (AREA 6)

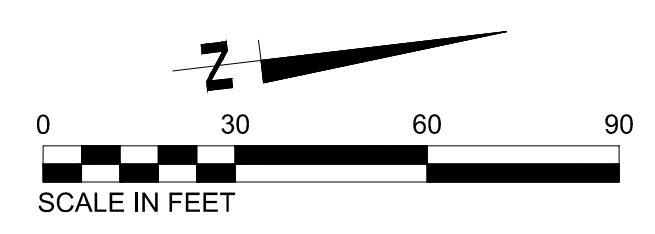
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 SCALE: 1"=30'

SHEET NO. C-EX-03  
 SHEET: 12 OF 47

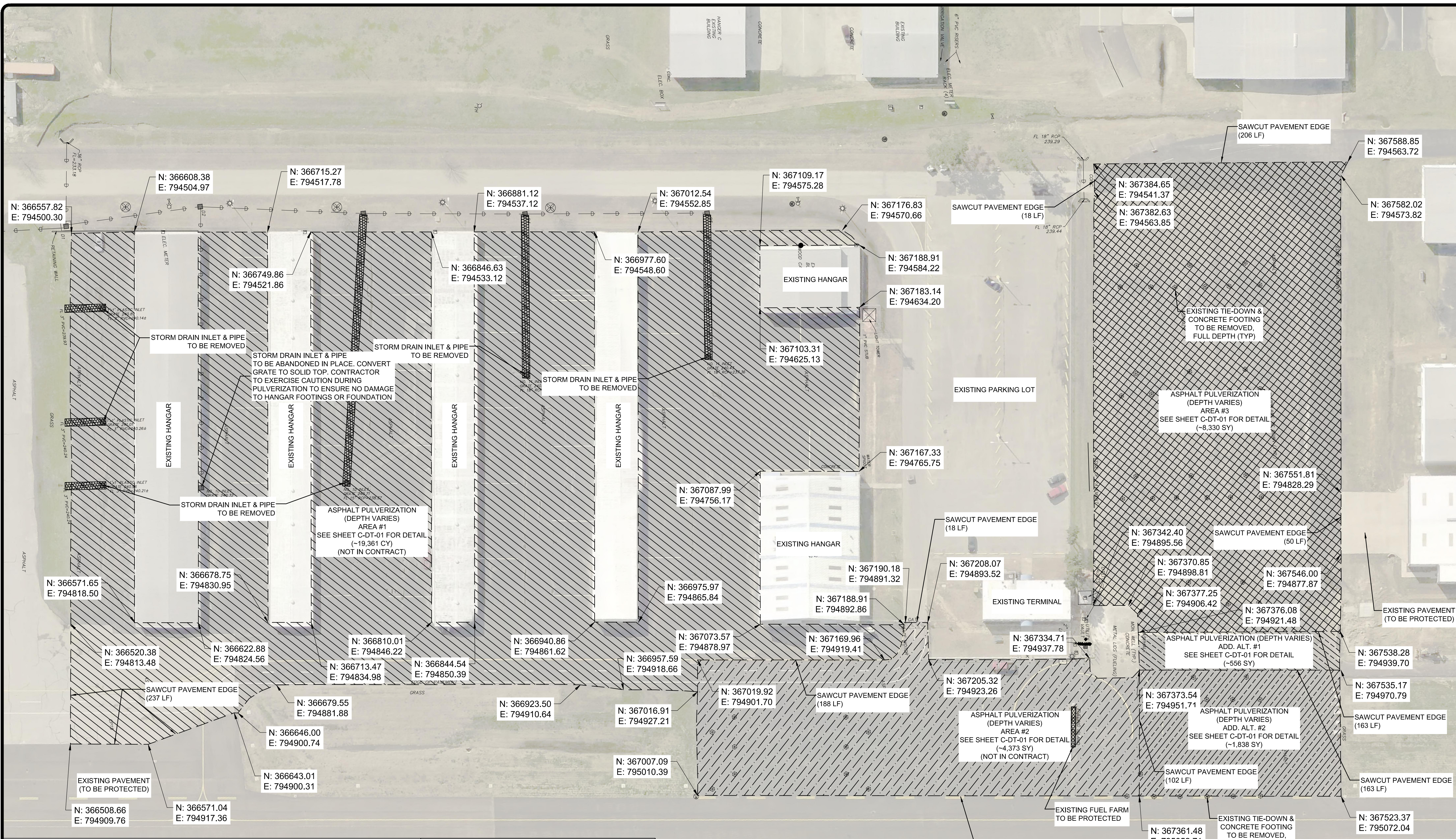


**LEGEND**

- EXISTING STORM DRAINAGE
- EXISTING DRAINAGE STRUCTURE
- EXISTING POWER POLE
- EXISTING TREE
- EXISTING AIRCRAFT TIE DOWN



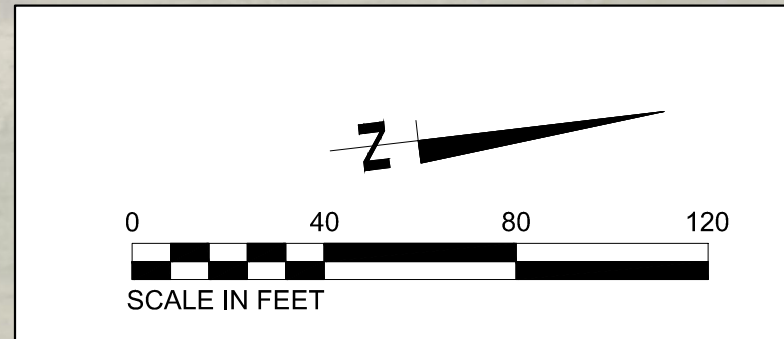
SURVEY PERFORMED BY THY, INC. (2020)



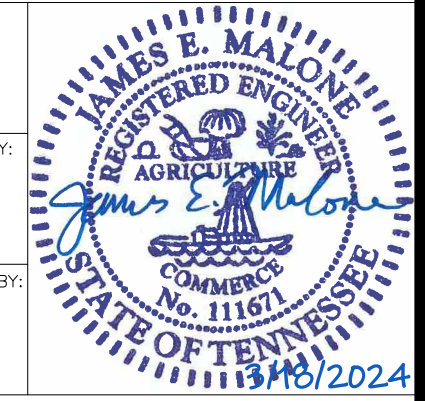
- DEMOLITION PLAN NOTES:**
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  - 5) NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE.
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  - 8) NOTES SHOWN HERE ARE GENERAL IN NATURE AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE.

**LEGEND**

	AREA #1: REMOVAL OF DRAINAGE PIPE & STRUCTURES (AS INDICATED); SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION
	AREA #2: REMOVAL OF AIRCRAFT TIE DOWNS; SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION
	AREA #3: REMOVAL OF AIRCRAFT TIE DOWNS; SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION
	ADD. SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION
	ADD. SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION



PROGRAM MANAGER  
 ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018  
 JOB NO. 33276-02  
 DRAWN BY: JEM  
 CHECKED BY: JDG  
 APPROVED BY: JEG



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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01  
 PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: DEMOLITION PLAN (AREAS 1, 2 & 3)  
 DWG. FILE NAME: 3327602-41C-DP-01.DWG  
 DATE: 03/11/2024  
 SCALE: 1"=40'  
 SHEET NO. C-DP-01  
 SHEET 13 OF 47

PROGRAM MANAGER

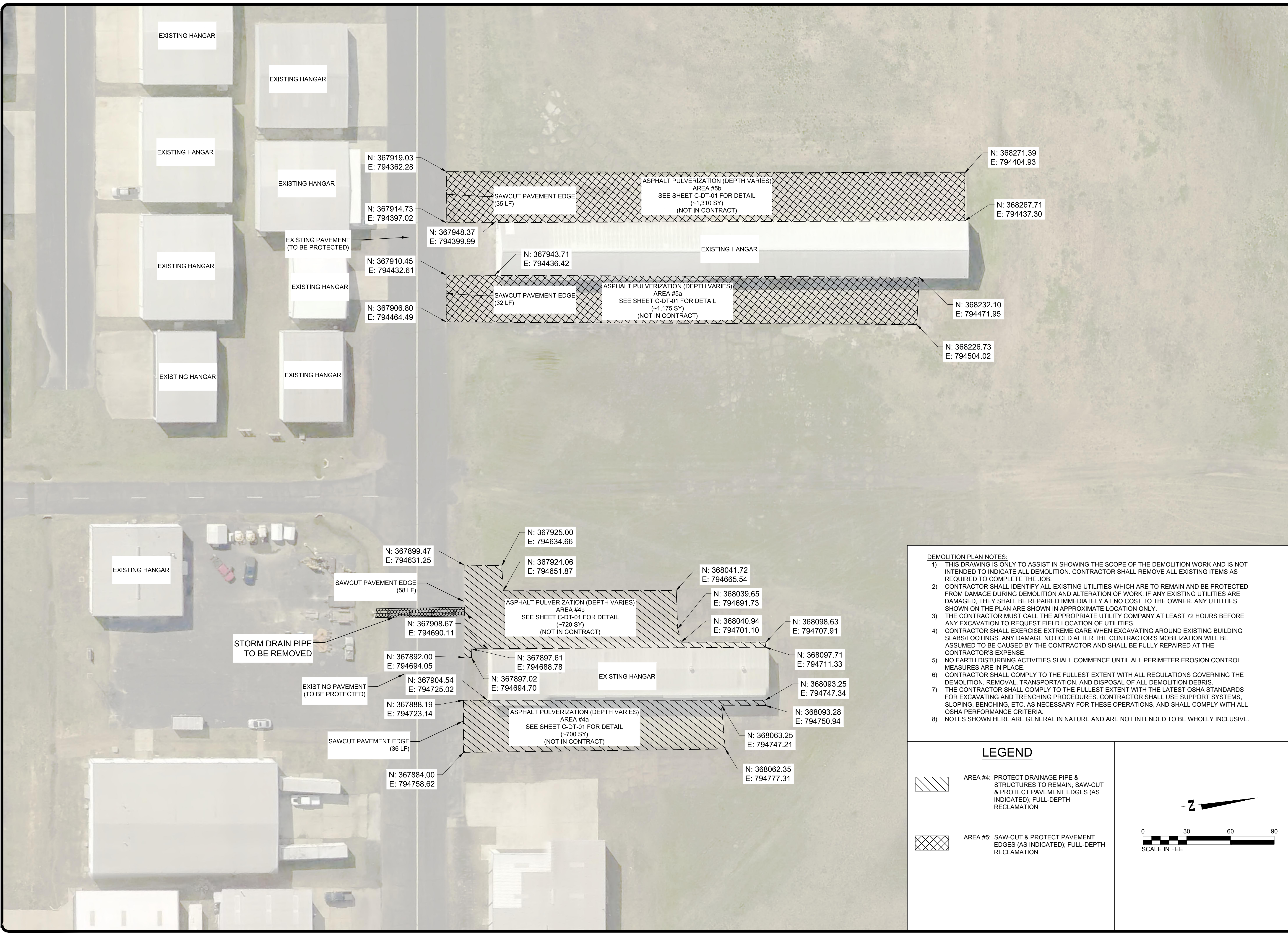
ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM  
 CHECKED BY: JDG  
 APPROVED BY: JEG

**NOT IN CONTRACT**

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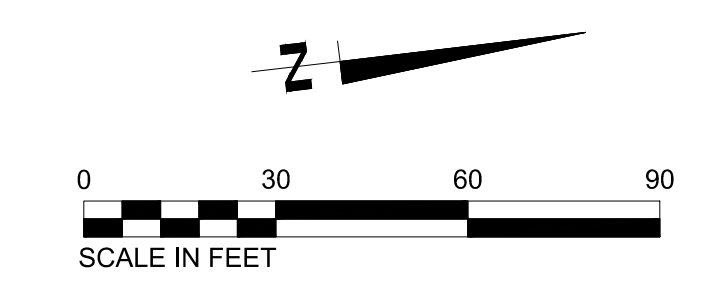


- DEMOLITION PLAN NOTES:**
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  - 7) THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATING AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
  - 8) NOTES SHOWN HERE ARE GENERAL IN NATURE AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE.

**LEGEND**

AREA #4: PROTECT DRAINAGE PIPE & STRUCTURES TO REMAIN; SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION

AREA #5: SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); FULL-DEPTH RECLAMATION



REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: DEMOLITION PLAN (AREAS 4 & 5)

PROGRAM MANAGER

ENGINEER



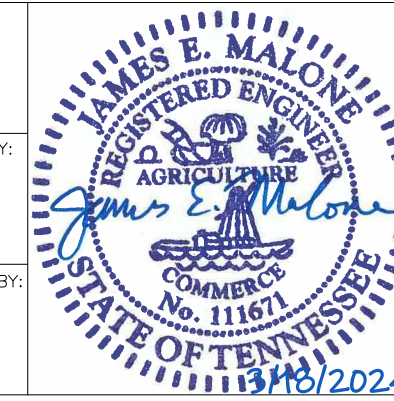
**BARGE DESIGN SOLUTIONS, INC.**  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

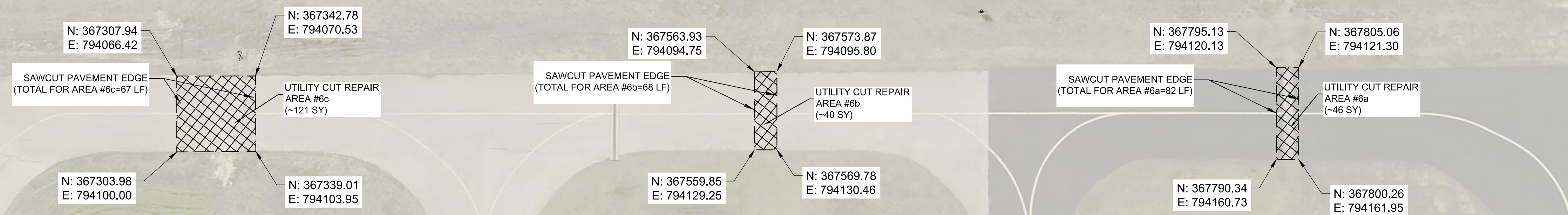
CHECKED BY: JDG

APPROVED BY: JEG



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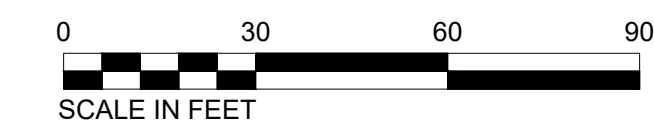
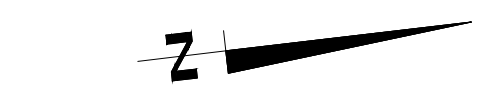
**DEMOLITION NOTE:**  
 UTILITY CUT DEMOLITION TO REMOVE ASPHALT SURFACE AND BASE MATERIAL TO A DEPTH OF 10" TO PREPARE FOR UTILITY CUT REPAIR PATCH (TYP). THIS WORK IS CONSIDERED INCIDENTAL TO P-101-5.5. NO SEPARATE PAY ITEM FOR UTILITY CUT DEMOLITION.



- DEMOLITION PLAN NOTES:**
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**LEGEND**

AREA #6: SAW-CUT & PROTECT PAVEMENT EDGES (AS INDICATED); PREPARE FOR TAXILANE CUT REPAIR



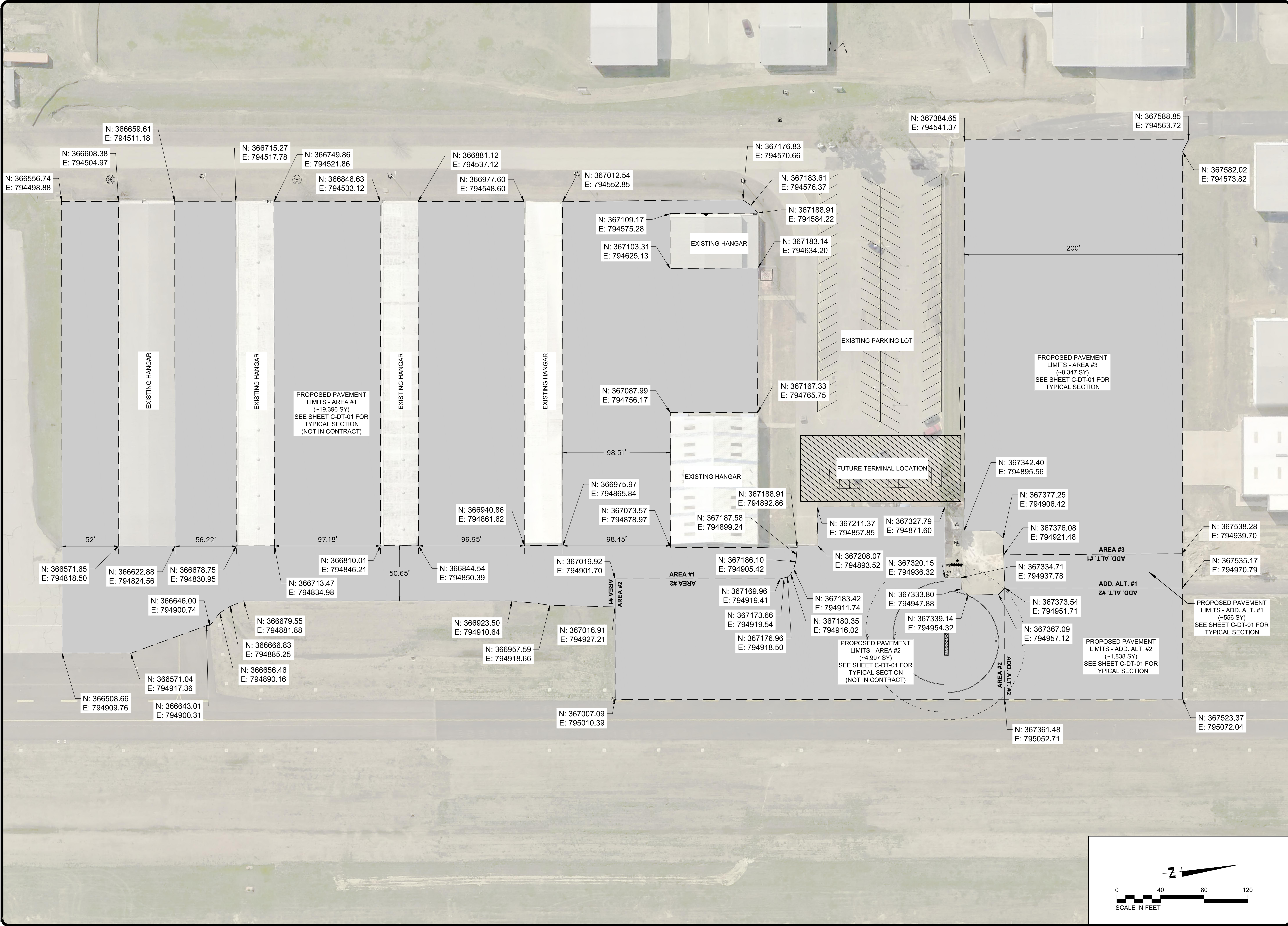
REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **DEMOLITION PLAN (AREA 6)**



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM  
 CHECKED BY: JDG  
 APPROVED BY: JEG

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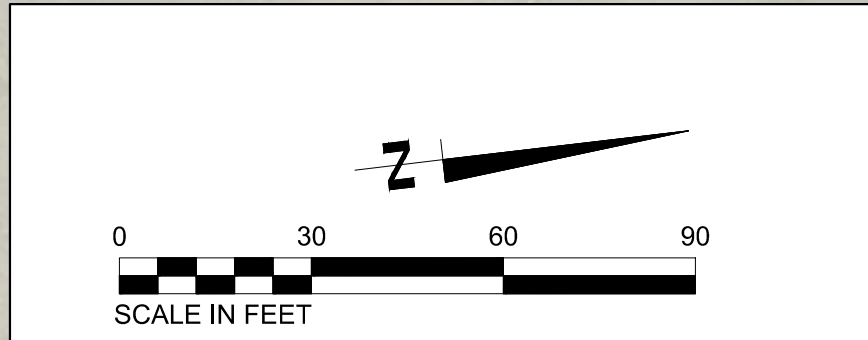
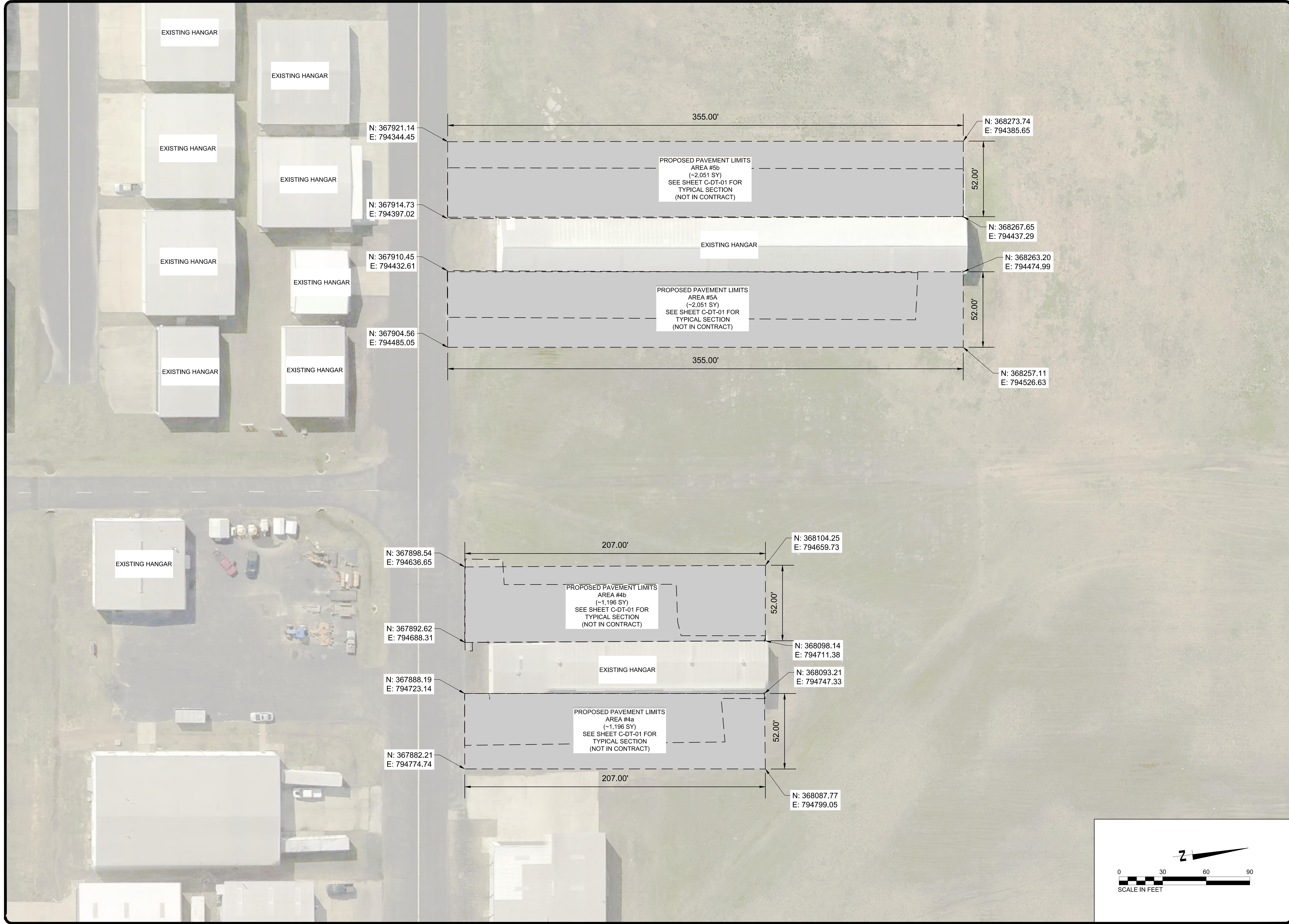
MSCAA PROJ. NO.  
**18-1420-01**

PROJECT:  
**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:  
**SITE LAYOUT PLAN  
 (AREAS 1, 2 & 3)**

DWG. FILE NAME  
**3327602-51C-SP-01.DWG**  
 DATE: 03/11/2024 SHEET NO. C-SP-01  
 SCALE: 1"=40' SHEET 16 OF 47





PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO.  
**33276-02**

DRAWN BY:  
**JEM**  
 CHECKED BY:  
**JDG**  
 APPROVED BY:  
**JEG**

**NOT IN CONTRACT**

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MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO.  
**18-1420-01**

PROJECT:  
**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:

**SITE LAYOUT PLAN  
 (AREAS 4 & 5)**

DWG. FILE NAME  
**3327602-52C-SP-02.DWG**  
 DATE  
**03/11/2024**  
 SCALE  
**1"=30'**

SHEET NO.  
**C-SP-02**  
 SHEET  
**17 OF 47**

PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:

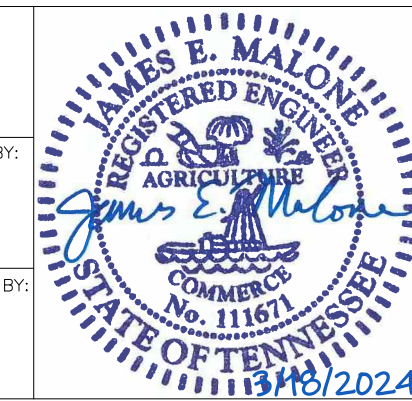
**JEM**

CHECKED BY:

**JDG**

APPROVED BY:

**JEG**



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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

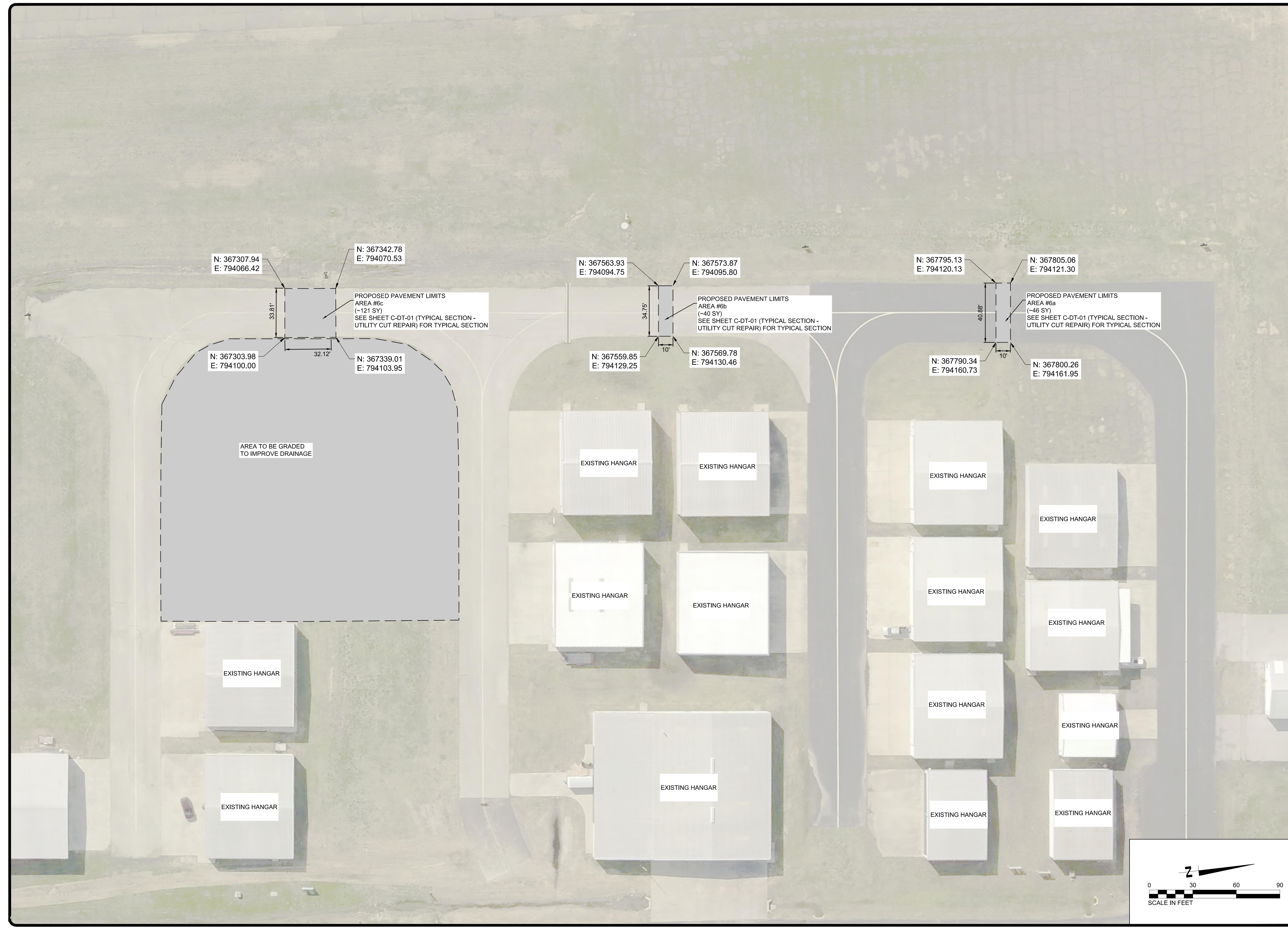
MSCAA PROJ. NO. **18-1420-01**

PROJECT:  
**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:  
**SITE LAYOUT PLAN  
 (AREA 6)**

DWG. FILE NAME  
**3327602-53C-SP-03.DWG**  
 DATE  
 03/11/2024  
 SCALE  
 1"=30'

SHEET NO.  
**C-SP-03**  
 SHEET  
 18 OF 47



N: 367307.94  
 E: 794066.42

N: 367342.78  
 E: 794070.53

N: 367303.98  
 E: 794100.00

N: 367339.01  
 E: 794103.95

N: 367563.93  
 E: 794094.75

N: 367573.87  
 E: 794095.80

N: 367559.85  
 E: 794129.25

N: 367569.78  
 E: 794130.46

N: 367795.13  
 E: 794120.13

N: 367805.06  
 E: 794121.30

N: 367790.34  
 E: 794160.73

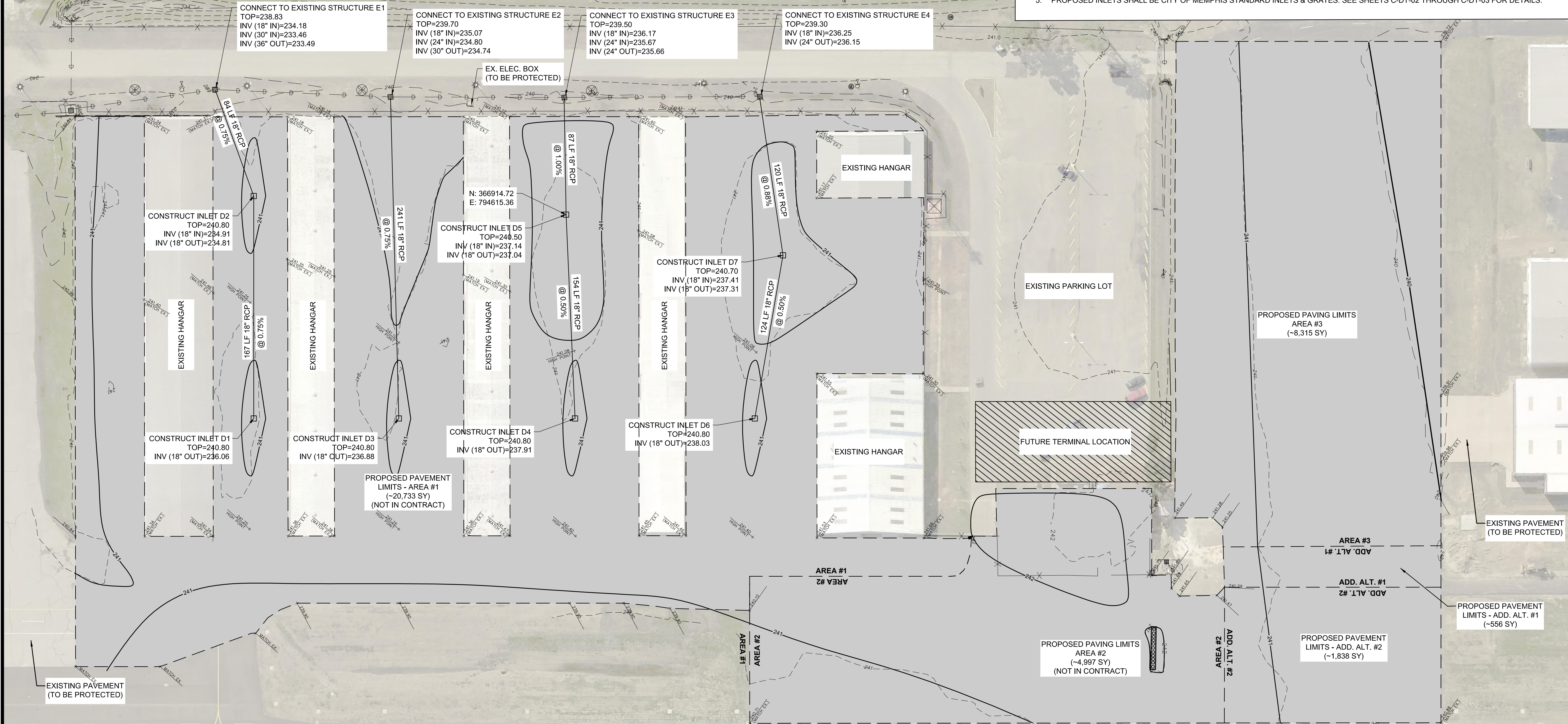
N: 367800.26  
 E: 794161.95

**UTILITY NOTE:**  
CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND EXERCISE EXTREME CAUTION WHILE EXCAVATING, TRENCHING, OR INSTALLING NEW STORM DRAIN PIPES. ANY DAMAGE TO ANY UNDERGROUND UTILITY SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

**FENCE NOTE:**  
EXISTING FENCE REQUIRED TO BE REMOVED AND REPLACED TO INSTALL NEW STORM DRAIN PIPES SHALL BE CONSIDERED INCIDENTAL TO APPROPRIATE D-701 PAY ITEM FOR THE STORM DRAIN PIPE. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL AND REPLACEMENT OF EXISTING FENCE.

**STORM DRAINAGE NOTES:**

1. ALL CONCRETE PIPE (RCP) SHALL BE CLASS III REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 HAVING TONGUE AND GROOVE JOINTS.
2. ALL PIPE JOINTS AND JOINT MATERIAL ARE TO PROVIDE A WATERTIGHT CONNECTION.
3. ALL PIPE TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS TO THE LINES AND GRADES AS SHOWN ON THE PLANS. BACKFILL TRENCHES IN 4" LIFTS AND COMPACT EACH LIFT IN ACCORDANCE WITH THE EMBANKMENT COMPACTION REQUIREMENTS. ALL BACKFILL IS TO BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT.
4. AFTER COMPLETION OF EACH SECTION OF PIPE, PROTECT FROM SEDIMENT AND DEBRIS ACCUMULATION INSIDE OF THE PIPE. CLEAN AND FLUSH ALL SEDIMENT FROM THE PIPE AND DISCHARGE IN ACCORDANCE WITH THE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL. AFTER INSTALLATION AND DURING THE REMAINDER OF THE CONSTRUCTION PERIOD, PROVIDE INLET PROTECTION FOR STORM WATER PIPES AND INLET STRUCTURES WITH SILT FENCE, OR OTHER ACCEPTED MEANS TO PREVENT SILT ACCUMULATION IN THE STORMWATER SYSTEM.
5. PROPOSED INLETS SHALL BE CITY OF MEMPHIS STANDARD INLETS & GRATES. SEE SHEETS C-DT-02 THROUGH C-DT-03 FOR DETAILS.



**GRADING NOTES:**

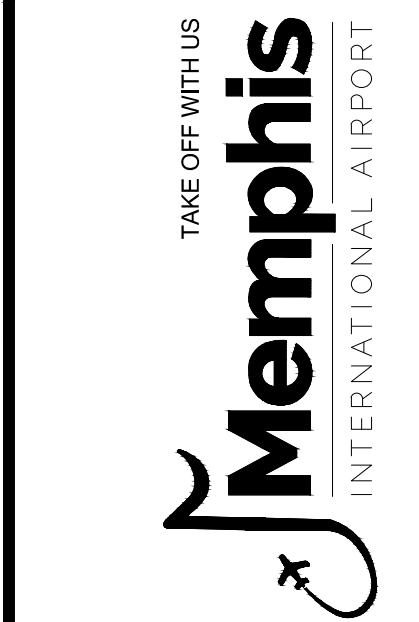
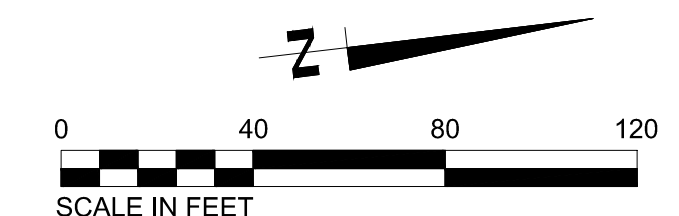
1. ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE.
2. PROPOSED TYPICAL SECTIONS SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED SURFACES. MATCH EXISTING ELEVATION WHEN TYING INTO ADJACENT PAVEMENTS. FOR AREAS NOT ADJACENT TO EXISTING PAVEMENT, PROVIDE 1.5" DROP FROM TOP OF PAVEMENT TO SOD. REFERENCE TYPICAL SECTIONS SHOWN ON C-DT-01 FOR MORE DETAILS.
3. AT ALL TIMES MAINTAIN THE AREA SO IT WILL BE WELL DRAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REQUIREMENTS. THE EROSION CONTROL DEVICES SHALL BE THE FIRST ITEM OF CONSTRUCTION AND REMAIN FUNCTIONAL. THEY WILL REQUIRE PERIODIC MAINTENANCE AS PART OF THE CONTRACT. REFER TO SHEETS C-EC-01.01 THRU C-EC-07.01 FOR DETAILS. ALL PROPOSED GRADING SHALL BE CONSIDERED UNCLASSIFIED. IT IS UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR OTHER MATERIALS ON THE DRAWINGS IS NOT AN INDICATION OF CLASSIFIED EXCAVATION.
4. STRIP AND STOCKPILE ALL TOPSOIL IN CUT AND FILL AREAS. PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL FOR ALL STOCKPILES. TAKE CARE TO AVOID MIXING SUBSOIL AND OTHER UNSUITABLE MATERIAL WITH THE TOPSOIL.
5. DISTURB ONLY THOSE AREAS NECESSARY FOR THE CURRENT PHASE OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROTECT ANY AND ALL EXISTING UTILITIES, STRUCTURES, PIPES, CULVERTS, CONDUITS, WIRES, OR OTHER ITEMS TO REMAIN. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, REPAIR OR REPLACE ANY DAMAGE THAT MAY RESULT FROM THEIR OPERATIONS.
6. AFTER COMPLETION OF STRIPPING IN FILL AREAS AND ONCE GRADE IS ACHIEVED IN CUT AREAS, PROOFROLL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. UNDERCUT AND BACKFILL ANY UNSUITABLE MATERIALS AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
7. FILL MATERIAL SHALL CONTAIN NO ROCK FRAGMENTS LARGER THAN FOUR INCHES IN ANY DIMENSION AND NO ORGANIC MATTER.
8. COMPACTION IN UTILITY TRENCHES SHALL BE PERFORMED IN MAXIMUM OF FOUR INCH LIFTS.

STRUCTURE TABLE					
ID	TYPE	NORTHING	EASTING	TOP	DA (AC.)
D1	NO. 10 INLET	366663.54	794740.11	240.80	0.40
D2	NO. 10 INLET	366683.15	794573.90	240.80	0.32
D3	NO. 10 INLET	366771.85	794752.89	240.80	0.43
D4	NO. 10 INLET	366903.44	794768.42	240.80	0.41
D5	NO. 10 INLET	366914.72	794615.36	240.50	0.54
D6	NO. 10 INLET	367037.62	794784.25	240.80	0.48
D7	NO. 10 INLET	367073.10	794664.88	240.70	0.83
E1	EX. INLET	-	-	238.83	-
E2	EX. INLET	-	-	239.70	-
E3	EX. INLET	-	-	239.50	-
E4	EX. INLET	-	-	239.30	-

PIPE TABLE									
FROM	INVERT	TO	INVERT	SIZE (INCHES)	LENGTH (LF)	SLOPE (%)	Q <sub>c</sub> (CFS)	Q <sub>a</sub> (CFS)	
D1	236.06	D2	234.91	18	167	0.75	9.10	2.88	
D2	234.81	E1	234.18	18	84	0.75	9.10	5.18	
D3	236.88	E2	235.07	18	241	0.75	9.10	3.09	
D4	237.91	D5	237.14	18	154	0.50	7.43	2.95	
D5	237.04	E3	236.17	18	87	1.00	10.50	6.83	
D6	238.03	D7	237.41	18	124	0.50	7.43	3.45	
D7	237.31	E4	236.41	18	120	0.88	9.85	9.42	

**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- 240 --- PROPOSED MAJOR CONTOUR
- 241 --- PROPOSED MINOR CONTOUR



PROGRAM MANAGER

ENGINEER  
**BARGE**  
DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG



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**REVISIONS**

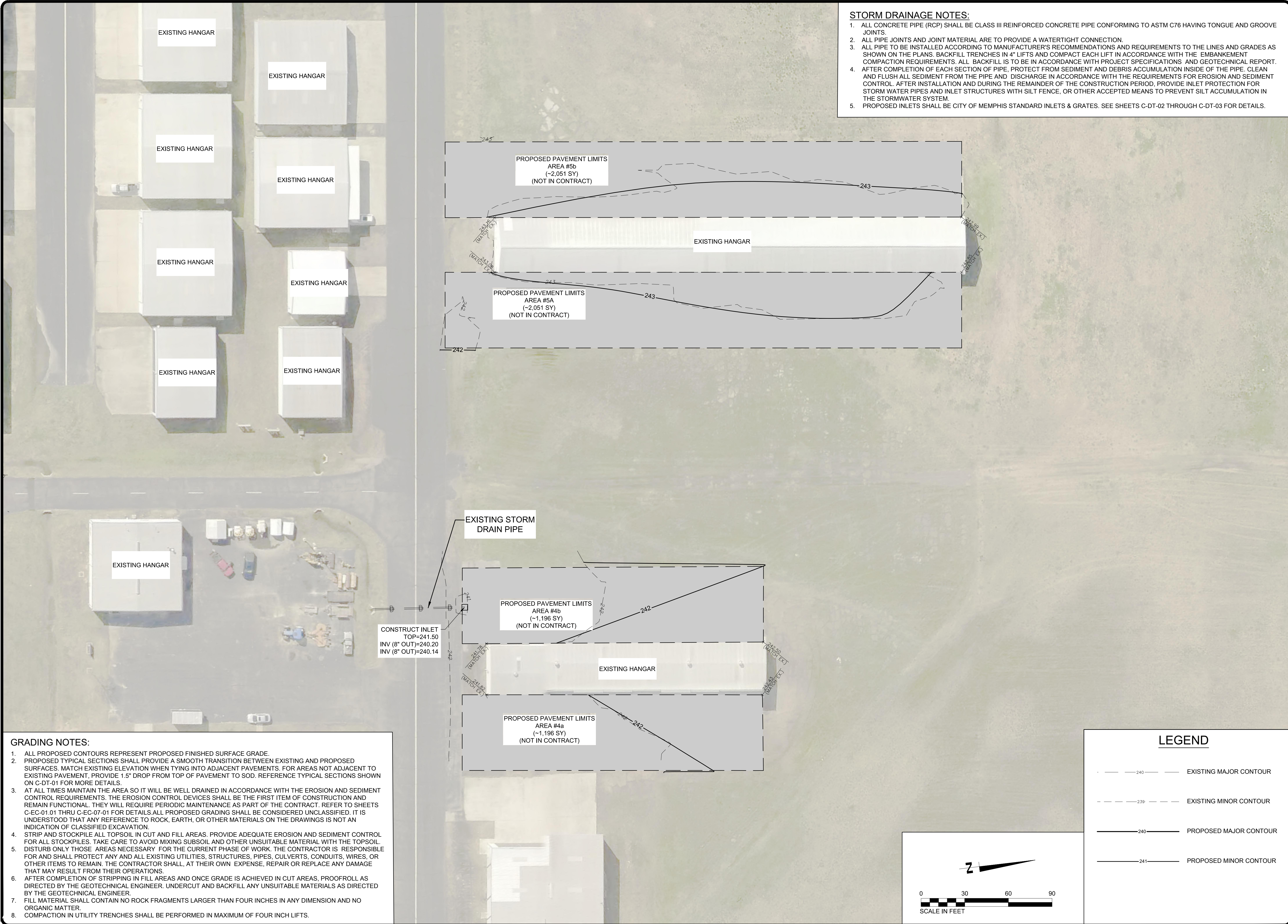
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER  
PAVEMENT RECONSTRUCTION

SHEET TITLE: SITE GRADING PLAN (AREAS 1, 2 & 3)

DWG. FILE NAME: 3327602-61C-GR-01.DWG  
DATE: 03/11/2024  
SCALE: 1"=40'  
SHEET NO. C-GR-01  
19 OF 47

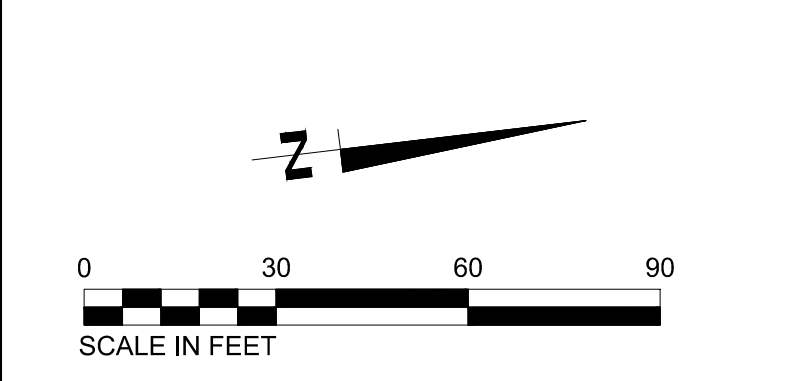


- STORM DRAINAGE NOTES:**
1. ALL CONCRETE PIPE (RCP) SHALL BE CLASS III REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 HAVING TONGUE AND GROOVE JOINTS.
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- GRADING NOTES:**
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  2. PROPOSED TYPICAL SECTIONS SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED SURFACES. MATCH EXISTING ELEVATION WHEN TYING INTO ADJACENT PAVEMENTS. FOR AREAS NOT ADJACENT TO EXISTING PAVEMENT, PROVIDE 1.5" DROP FROM TOP OF PAVEMENT TO SOD. REFERENCE TYPICAL SECTIONS SHOWN ON C-DT-01 FOR MORE DETAILS.
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**LEGEND**

— 240 —	EXISTING MAJOR CONTOUR
- - - 239 - - -	EXISTING MINOR CONTOUR
— 240 —	PROPOSED MAJOR CONTOUR
— 241 —	PROPOSED MINOR CONTOUR



PROGRAM MANAGER

ENGINEER  
**BARGE**  
DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG

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MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **SITE GRADING PLAN (AREAS 4 & 5)**

DWG. FILE NAME: 3327602-62C-GR-02.DWG

DATE: 03/11/2024

SCALE: 1"=30'

SHEET NO. C-GR-02

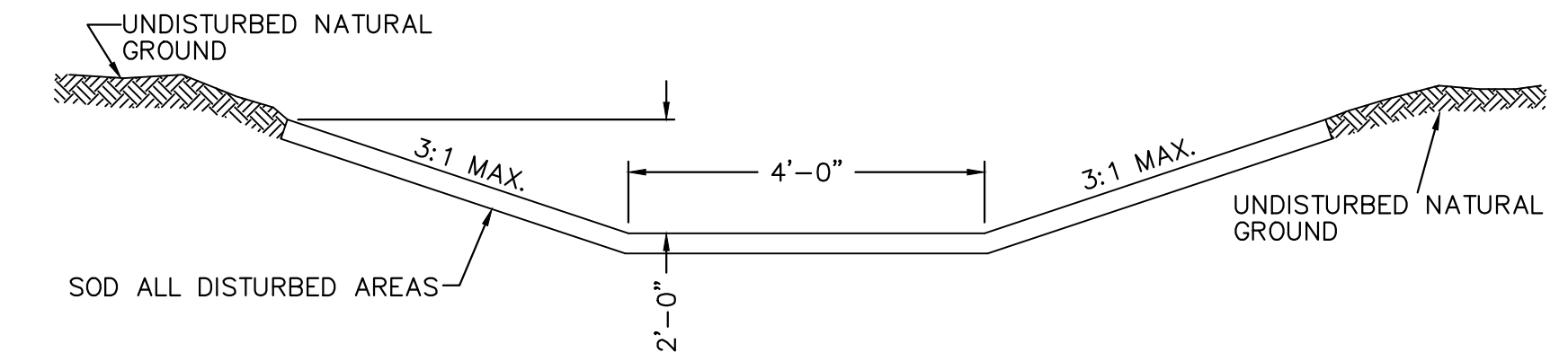
SHEET 20 OF 47

REPLACE EXISTING 291 LF OF 15" RCP @ 0.54%. WITH 291 LF OF 22" X 13.5" ARCH RCP @ 0.54%. (SEE STRUCTURE TABLE & PIPE TABLE FOR E6 LOCATION AND PIPE DATA)

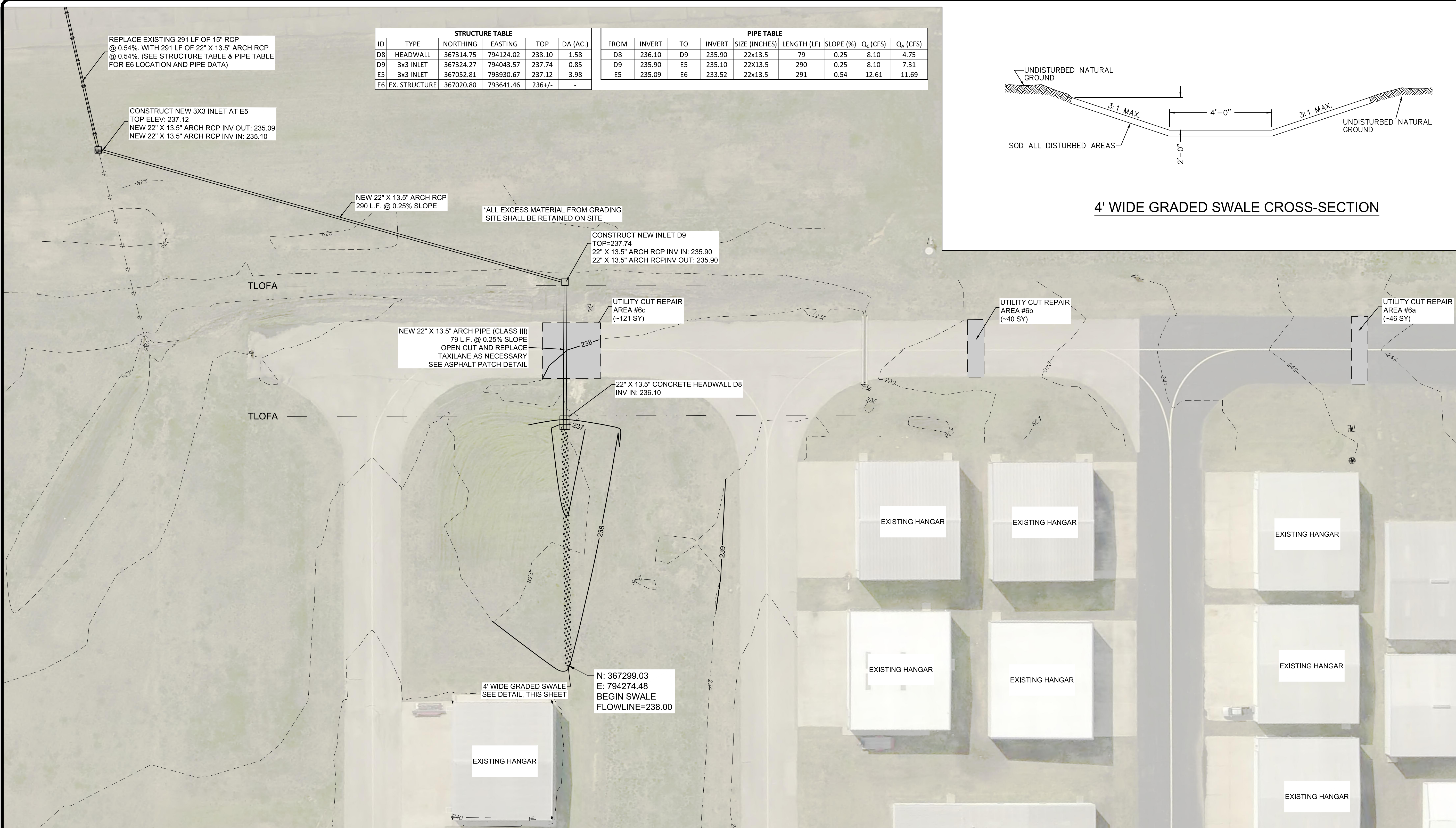
CONSTRUCT NEW 3X3 INLET AT E5  
TOP ELEV: 237.12  
NEW 22" X 13.5" ARCH RCP INV OUT: 235.09  
NEW 22" X 13.5" ARCH RCP INV IN: 235.10

STRUCTURE TABLE				
ID	TYPE	NORTHING	EASTING	TOP DA (AC.)
D8	HEADWALL	367314.75	794124.02	238.10
D9	3x3 INLET	367324.27	794043.57	237.74
E5	3x3 INLET	367052.81	793930.67	237.12
E6	EX. STRUCTURE	367020.80	793641.46	236+/-

PIPE TABLE								
FROM	INVERT	TO	INVERT	SIZE (INCHES)	LENGTH (LF)	SLOPE (%)	Q <sub>c</sub> (CFS)	Q <sub>s</sub> (CFS)
D8	236.10	D9	235.90	22x13.5	79	0.25	8.10	4.75
D9	235.90	E5	235.10	22x13.5	290	0.25	8.10	7.31
E5	235.09	E6	233.52	22x13.5	291	0.54	12.61	11.69



4' WIDE GRADED SWALE CROSS-SECTION

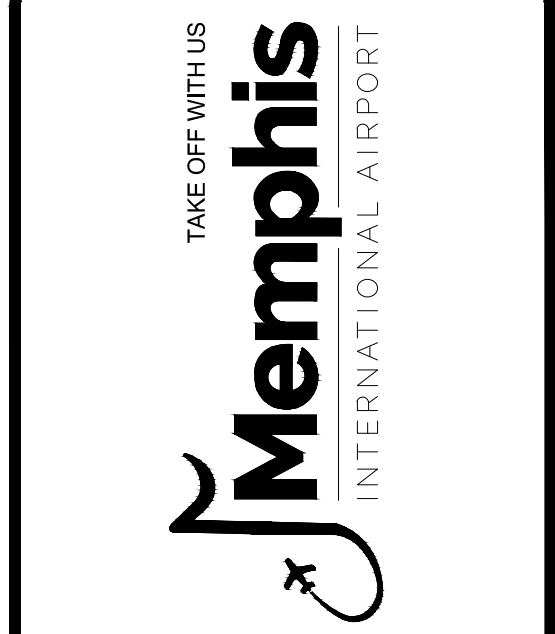


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  - PROPOSED INLETS SHALL BE CITY OF MEMPHIS STANDARD INLETS & GRATES. SEE SHEETS C-DT-02 THROUGH C-DT-03 FOR DETAILS.

**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- 240 — PROPOSED MAJOR CONTOUR
- 241 — PROPOSED MINOR CONTOUR



PROGRAM MANAGER

ENGINEER

**BARGE**  
DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

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REVISIONS

MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: SITE GRADING PLAN (AREA 6)

DWG. FILE NAME: 3327602-63C-GR-03.DWG

DATE: 03/11/2024 SHEET NO. C-GR-03

SCALE: 1"=30' SHEET 21 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-01. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

EXISTING GATE & DRIVEWAY TO SERVE AS TEMPORARY CONSTRUCTION EXIT

SILT FENCE TO BE PLACED BETWEEN EXISTING EDGE OF PAVEMENT AND EXISTING CHAINLINK FENCE (TYP)

N: 366555.17  
E: 794498.08

N: 367176.96  
E: 794569.60

N: 367191.73  
E: 794584.61

N: 367186.14  
E: 794631.59

N: 367200.05  
E: 794633.48

N: 367198.08  
E: 794651.04

N: 367183.11  
E: 794649.22

N: 367152.95  
E: 794885.73

N: 367189.50  
E: 794891.02

N: 367008.53  
E: 794926.53

N: 367001.93  
E: 794963.92

N: 366655.77  
E: 794923.80

TEMPORARY CONSTRUCTION EXIT

INSTALL INLET PROTECTION AT EXISTING INLETS (TYP)

INSTALL INLET PROTECTION AT EXISTING INLETS (TYP)

PROPOSED PAVING LIMITS AREA #1 (~19,396 SY)

FUTURE TERMINAL LOCATION

EXISTING PAVEMENT

EXISTING HANGAR

EXISTING TERMINAL

INSTALL WEIGHTED WATTLES ON PAVED AREAS

INSTALL SILT FENCE (TYP)

INSTALL WEIGHTED WATTLES ON PAVED AREAS

EXISTING PAVEMENT

TOFA

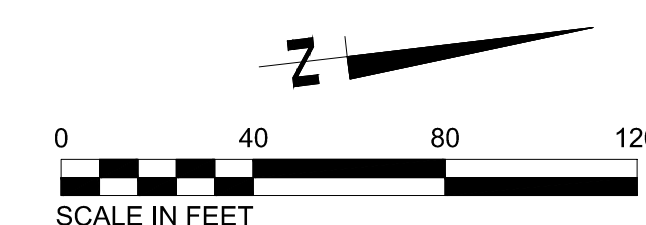
TSA

**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
- 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 3) WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF ENGINEER, THEY SHALL BE REMOVED. CONTRACTOR TO NOTIFY THE AIRPORT AND TDOT THREE DAYS PRIOR TO BEGIN WORK.
- 4) ALL GRADE AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDING WITHIN 14 DAYS AFTER GRADING IS COMPLETE.
- 5) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 6) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 — EXISTING MAJOR CONTOUR
- 239 — EXISTING MINOR CONTOUR
- SF — SILT FENCE
- ☐ INLET PROTECTION
- ▨ WEIGHTED WATTLE



PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

APPROVED BY:

JEG

**NOT IN CONTRACT**

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**REVISIONS**

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 1) PRE-CONSTRUCTION**

DWG. FILE NAME: 3327602-71C-EC-01.01.DWG  
DATE: 03/11/2024 SHEET NO. C-EC-1.01  
SCALE: 1"=40' SHEET 22 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-01. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE

SILT FENCE FROM PRE-CONSTRUCTION PHASE

EXISTING HANGAR

INSTALL INLET PROTECTION AT PROPOSED INLETS (TYP)

EXISTING PARKING LOT

SILT FENCE FROM PRE-CONSTRUCTION PHASE

FUTURE TERMINAL LOCATION

EXISTING PAVEMENT

EXISTING HANGAR

EXISTING TERMINAL

PROPOSED PAVING LIMITS AREA #1 (~19,396 SY)

WEIGHTED WATTLES FROM PRE-CONSTRUCTION PHASE

TOFA

TSA

EXISTING PAVEMENT

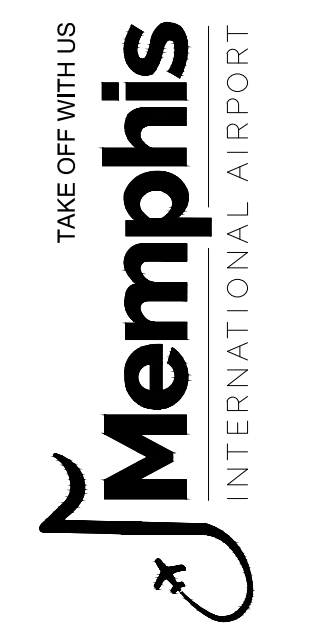
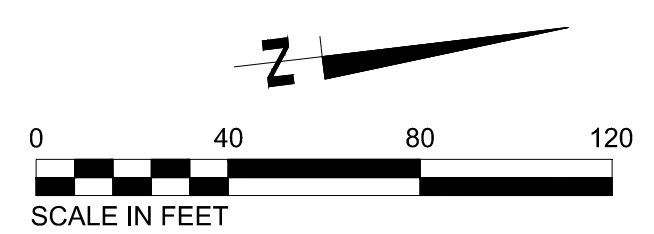
WEIGHTED WATTLES FROM PRE-CONSTRUCTION PHASE

**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
- 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 3) WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF ENGINEER, THEY SHALL BE REMOVED. CONTRACTOR TO NOTIFY THE AIRPORT AND TDOT THREE DAYS PRIOR TO BEGIN WORK.
- 4) ALL GRADE AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER GRADING IS COMPLETE.
- 5) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 6) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- - - 240 - - - EXISTING MAJOR CONTOUR
- - - 239 - - - EXISTING MINOR CONTOUR
- - - SF - - - SILT FENCE INSTALLED IN PRE-CONSTRUCTION
- ☐ INLET PROTECTION INSTALLED IN PRE-CONSTRUCTION
- ▨ WEIGHTED WATTLE
- - - SF - - - SILT FENCE
- ▨ STAGING AREA



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

**NOT IN CONTRACT**

APPROVED BY:

JEG

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**REVISIONS**

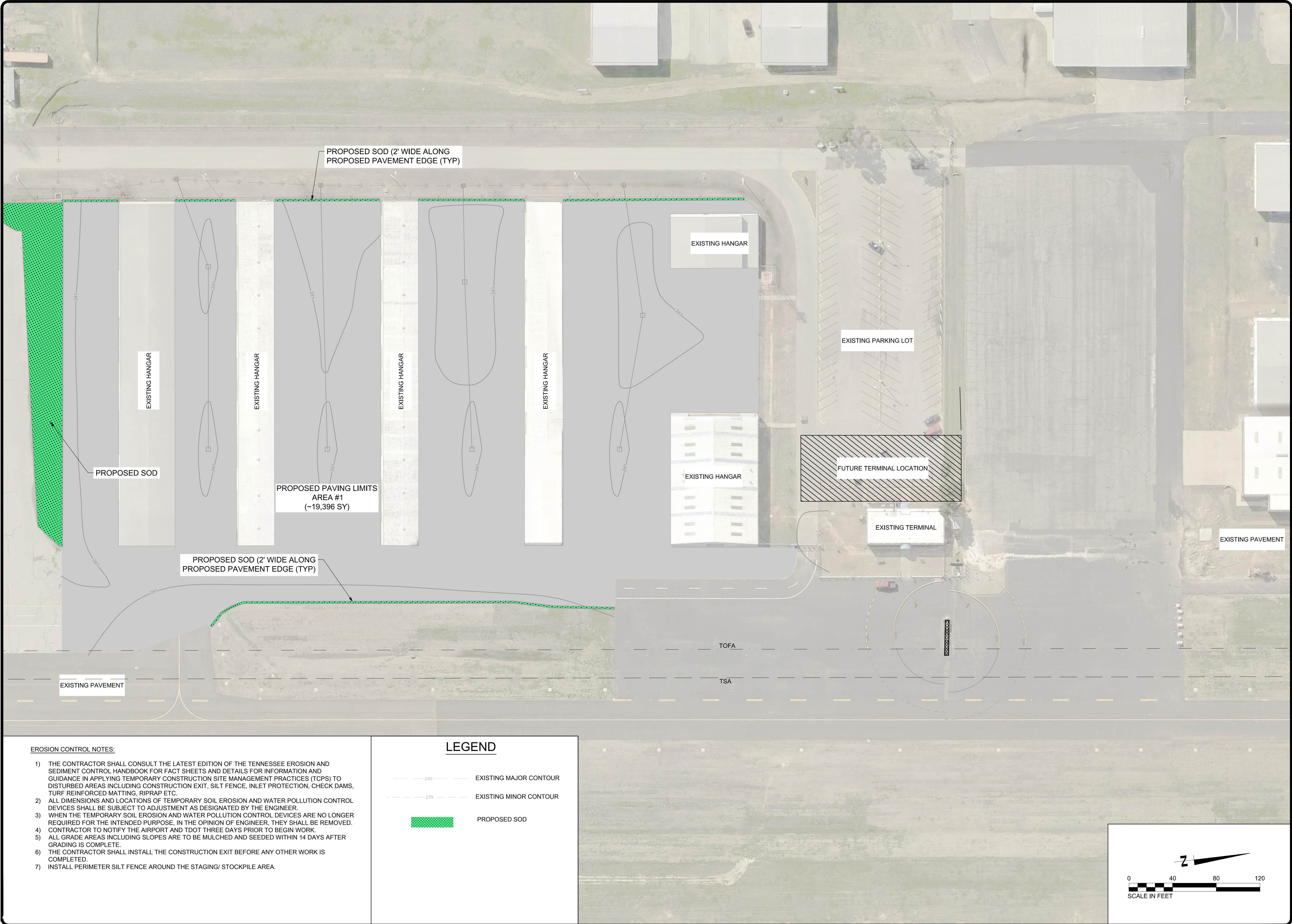
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT:  
**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:  
**EROSION CONTROL  
 PLAN  
 (AREA 1)  
 DURING  
 CONSTRUCTION**

DWG. FILE NAME  
 3327602-71C-EC-01.02.DWG  
 DATE 03/11/2024 SHEET NO. C-EC-1.02  
 SCALE 1"=40' SHEET 23 OF 47



PROPOSED SOD (2' WIDE ALONG PROPOSED PAVEMENT EDGE (TYP))

EXISTING HANGAR

EXISTING PARKING LOT

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

FUTURE TERMINAL LOCATION

EXISTING TERMINAL

EXISTING PAVEMENT

PROPOSED PAVING LIMITS AREA #1 (~19,396 SY)

PROPOSED SOD (2' WIDE ALONG PROPOSED PAVEMENT EDGE (TYP))

TOFA

TSA

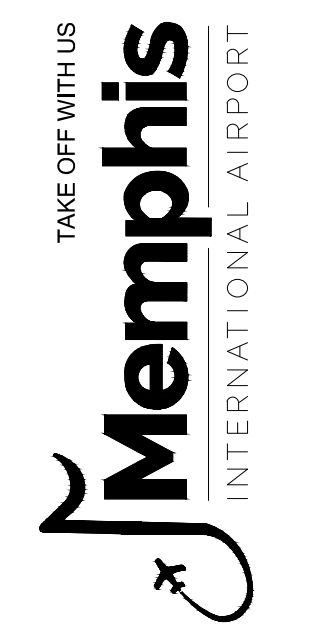
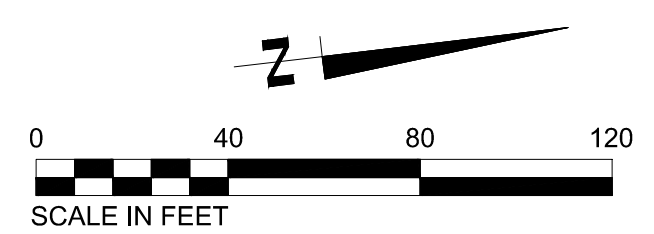
EXISTING PAVEMENT

**EROSION CONTROL NOTES:**

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- 6) THE CONTRACTOR SHALL INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 EXISTING MAJOR CONTOUR
- 239 EXISTING MINOR CONTOUR
- PROPOSED SOD



PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:

**JEM**

CHECKED BY:

**JDG**

APPROVED BY:

**JEG**

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**REVISIONS**

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 1) POST-CONSTRUCTION**

DWG. FILE NAME: **3327602-71C-EC-01.03.DWG**  
DATE: **03/11/2024** SHEET NO.: **C-EC-1.03**  
SCALE: **1"=40'** SHEET: **24 OF 47**



PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY:

**JEM**

CHECKED BY:

**JDG**

APPROVED BY:

**JEG**

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:  
**EROSION CONTROL  
 PLAN  
 (AREA 2)  
 PRE-CONSTRUCTION**

DWG. FILE NAME: **3327602-72C-EC-02.01.DWG**  
 DATE: **03/11/2024** SHEET NO.: **C-EC-2.01**  
 SCALE: **1"=40'** SHEET: **25 OF 47**

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-02. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

SEE SHEET C-SF-02 FOR TEMPORARY CONSTRUCTION EXIT

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING PARKING LOT

EXISTING HANGAR

FUTURE TERMINAL LOCATION

N: 367342.14  
 E: 794871.69

N: 367212.33  
 E: 794857.42

N: 367207.73  
 E: 794893.81

N: 367011.66  
 E: 794965.74

EXISTING PAVEMENT  
 (TO BE PROTECTED)

INSTALL WEIGHTED WATTLES  
 IN PAVED AREAS (TYP)

TOFA

TSA

PROPOSED PAVING LIMITS  
 AREA #2  
 (~4,997 SY)

INSTALL WEIGHTED WATTLES  
 IN PAVED AREAS (TYP)

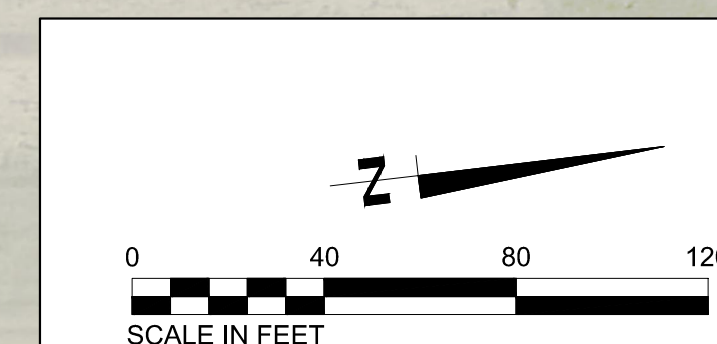
EXISTING FUEL FARM  
 (TO BE PROTECTED)

EROSION CONTROL NOTES:

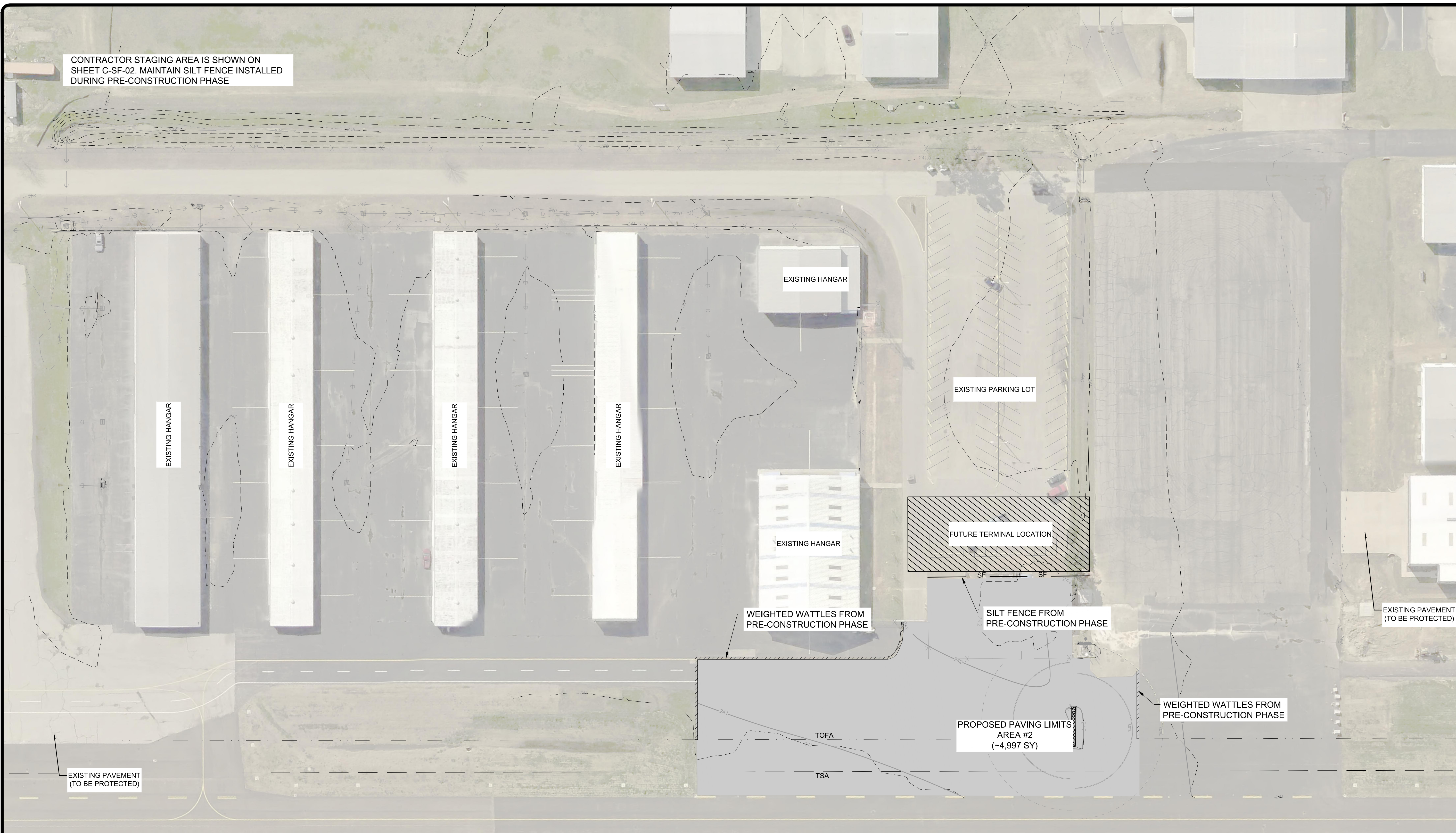
- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCSP) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
- 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 3) WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF ENGINEER, THEY SHALL BE REMOVED. CONTRACTOR TO NOTIFY THE AIRPORT AND TDOT THREE DAYS PRIOR TO BEGIN WORK.
- 4) ALL GRADE AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER GRADING IS COMPLETE.
- 5) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 6) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

LEGEND

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- SF — SILT FENCE
- INLET PROTECTION
- ══ WEIGHTED WATTLE



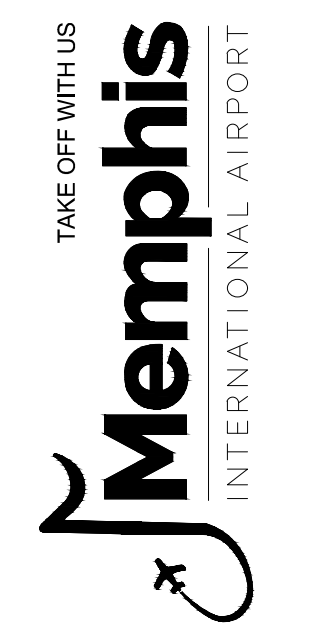
CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-02. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE



EXISTING PAVEMENT (TO BE PROTECTED)

- EROSION CONTROL NOTES:**
- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCSPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
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LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	SILT FENCE INSTALLED IN PRE-CONSTRUCTION
	INLET PROTECTION INSTALLED IN PRE-CONSTRUCTION
	WEIGHTED WATTLE
	SILT FENCE
	STAGING AREA



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

APPROVED BY:

JEG

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REVISIONS

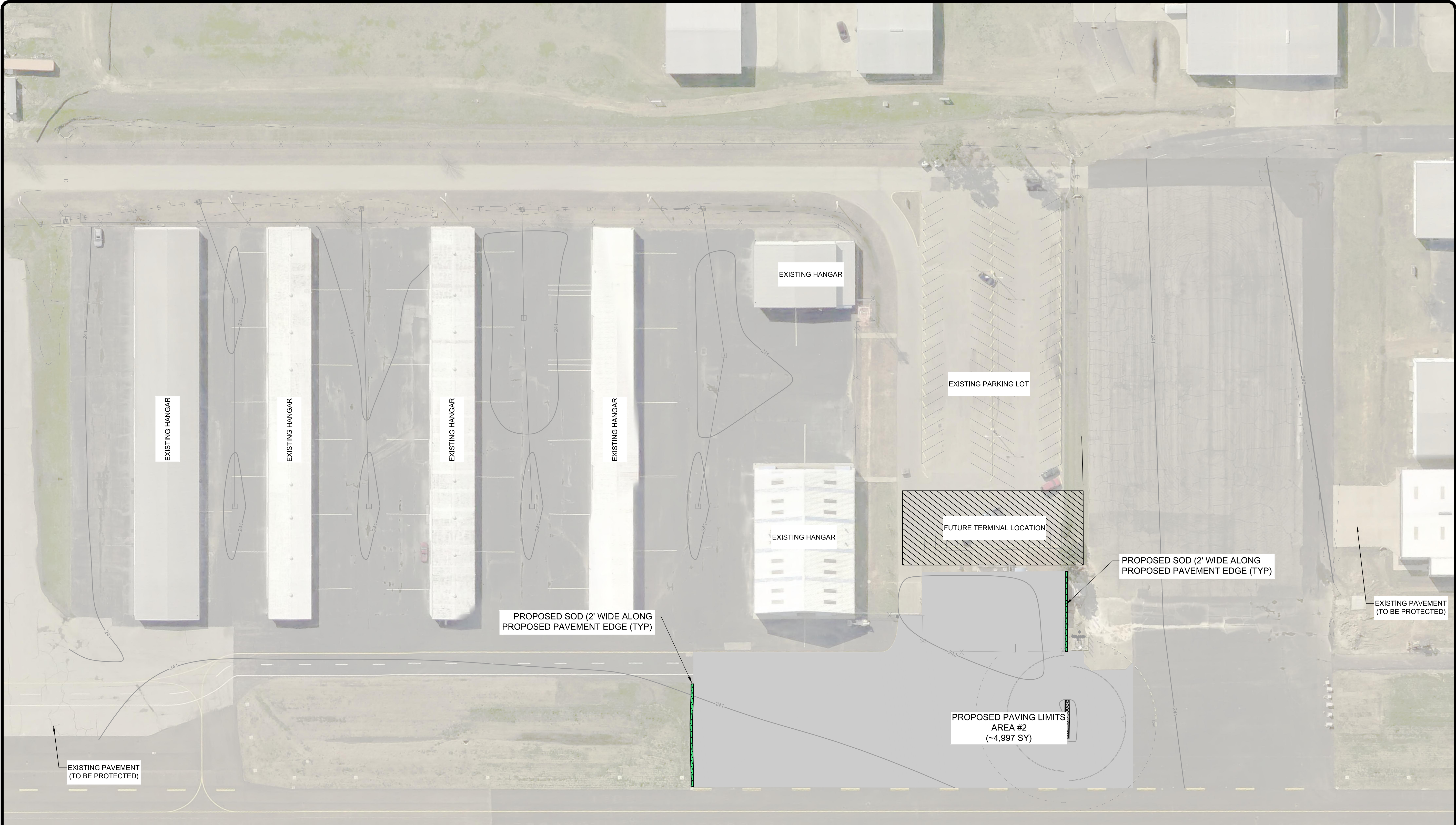
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 2) DURING CONSTRUCTION**

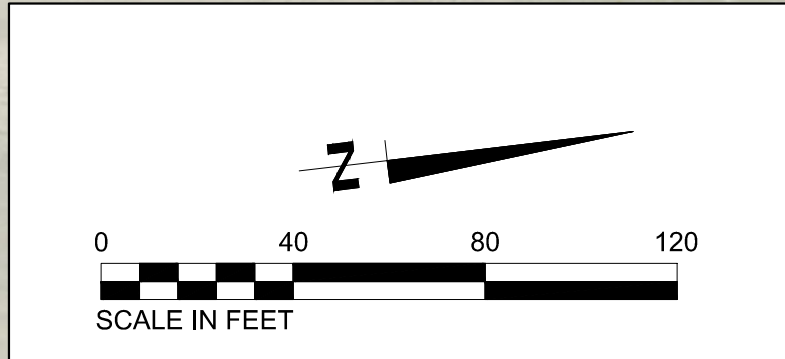
DWG. FILE NAME: 3327602-72C-EC-02.02.DWG  
 DATE: 03/11/2024 SHEET NO. C-EC-2.02  
 SCALE: 1"=40' SHEET 26 OF 47



- EROSION CONTROL NOTES:**
- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCSPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
  - 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
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  - 6) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
  - 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

	240	EXISTING MAJOR CONTOUR
	239	EXISTING MINOR CONTOUR
		PROPOSED SOD



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

APPROVED BY:

JEG

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 2) POST-CONSTRUCTION**

DWG. FILE NAME: 3327602-72C-EC-02.03.DWG  
 DATE: 03/11/2024 SHEET NO. C-EC-2.03  
 SCALE: 1"=40' SHEET 27 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-03. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

SEE SHEET C-SF-03 FOR TEMPORARY CONSTRUCTION EXIT

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING PARKING LOT

EXISTING HANGAR

FUTURE TERMINAL LOCATION

INSTALL SILT FENCE (TYP)

PROPOSED PAVING LIMITS AREA #3 (~8,347 SY)

N: 367554.07  
E: 794823.92

N: 367547.34  
E: 794880.94

N: 367540.35  
E: 794940.03

EXISTING PAVEMENT (TO BE PROTECTED)

N: 367540.35  
E: 794960.93

N: 367536.73  
E: 794976.57

PROPOSED PAVEMENT LIMITS - ADD. ALT. #1 (~556 SY)

PROPOSED PAVEMENT LIMITS - ADD. ALT. #2 (~1,838 SY)

N: 367525.43  
E: 795071.48

INSTALL WEIGHTED WATTLES IN PAVED AREAS (TYP)

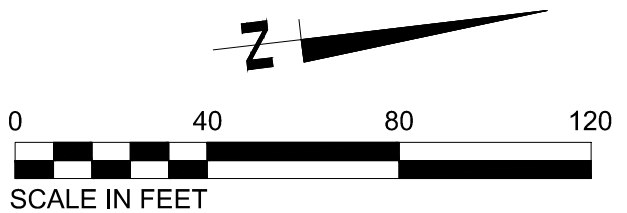
EXISTING PAVEMENT (TO BE PROTECTED)

**LEGEND**

- 240 — EXISTING MAJOR CONTOUR
- 239 — EXISTING MINOR CONTOUR
- SF — SILT FENCE
- INLET PROTECTION
- ▨ WEIGHTED WATTLE

**EROSION CONTROL NOTES:**

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PROGRAM MANAGER



**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

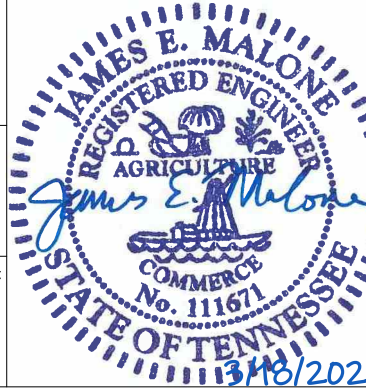
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CHECKED BY:

JDG

APPROVED BY:

JEG



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**REVISIONS**

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 3) PRE-CONSTRUCTION**

DWG. FILE NAME: 3327602-73C-EC-03.01.DWG  
DATE: 03/11/2024 SHEET NO. C-EC-3.01  
SCALE: 1"=40' SHEET 28 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-03. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE



EXISTING PAVEMENT (TO BE PROTECTED)

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING PARKING LOT

SILT FENCE FROM PRE-CONSTRUCTION PHASE

FUTURE TERMINAL LOCATION

PROPOSED PAVING LIMITS AREA #3 (~8,347 SY)

SILT FENCE FROM PRE-CONSTRUCTION PHASE

EXISTING PAVEMENT (TO BE PROTECTED)

N: 367536.73

E: 794976.57

PROPOSED PAVEMENT LIMITS - ADD. ALT. #1 (~556 SY)

PROPOSED PAVEMENT LIMITS - ADD. ALT. #2 (~1,838 SY)

N: 367525.43

E: 795071.48

WEIGHTED WATTLES FROM PRE-CONSTRUCTION PHASE

TOFA

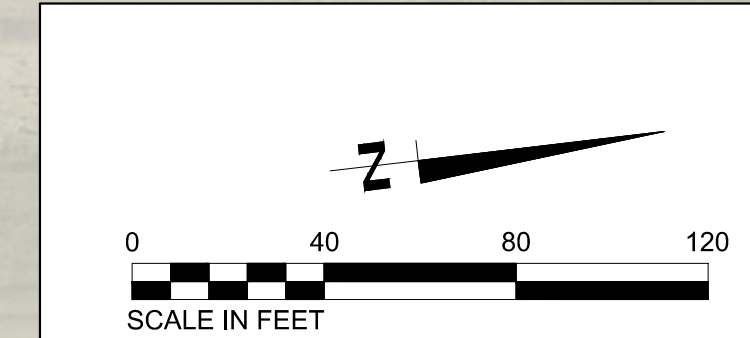
TSA

**EROSION CONTROL NOTES:**

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- 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- SF --- SILT FENCE INSTALLED IN PRE-CONSTRUCTION
- [Symbol] INLET PROTECTION
- [Symbol] WEIGHTED WATTLE



PROGRAM MANAGER

ENGINEER  
**BARGE**  
DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

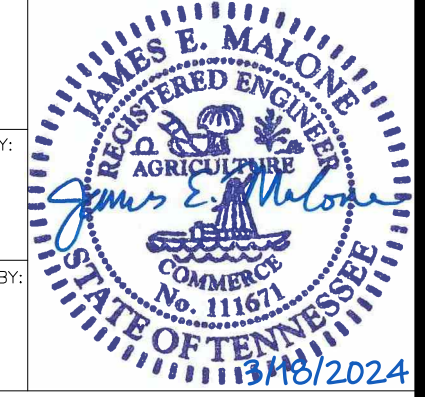
JEM

CHECKED BY:

JDG

APPROVED BY:

JEG



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**REVISIONS**

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 3) DURING CONSTRUCTION**

DWG. FILE NAME: 3327602-73C-EC-03.02.DWG  
DATE: 03/11/2024 SHEET NO. C-EC-3.02  
SCALE: 1"=40' SHEET 29 OF 47

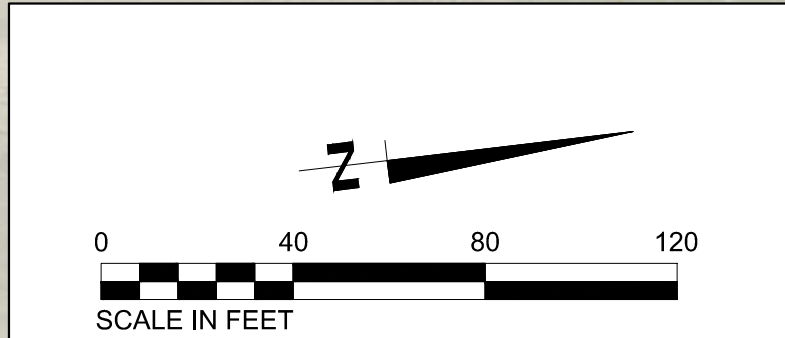


**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TSPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
- 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 3) WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF ENGINEER, THEY SHALL BE REMOVED.
- 4) CONTRACTOR TO NOTIFY THE AIRPORT AND TDOT THREE DAYS PRIOR TO BEGIN WORK.
- 5) ALL GRADE AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER GRADING IS COMPLETE.
- 6) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 ——— EXISTING MAJOR CONTOUR
- 239 - - - - - EXISTING MINOR CONTOUR
- PROPOSED SOD



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM  
 CHECKED BY: JDG  
 APPROVED BY: JEG

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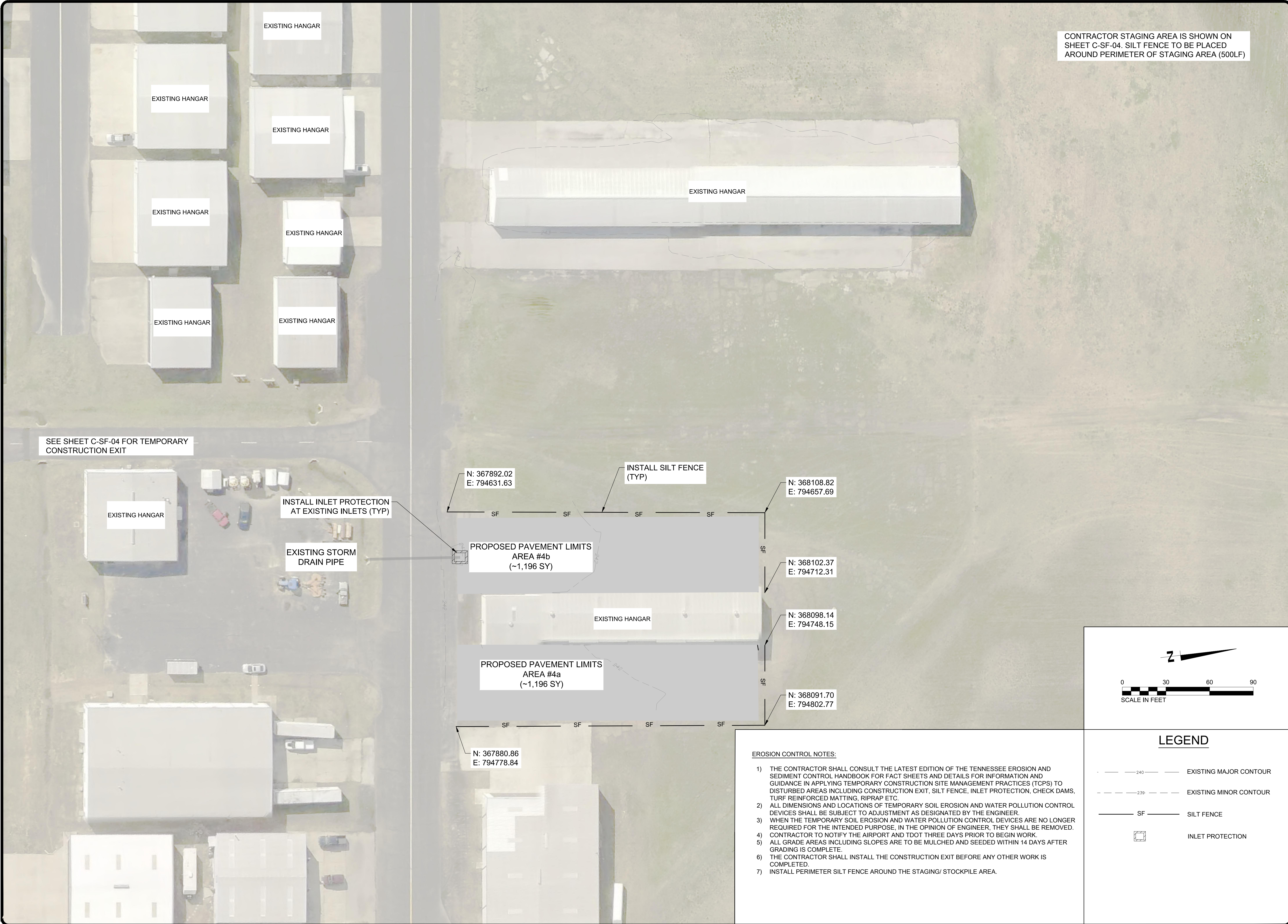
REVISIONS		
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

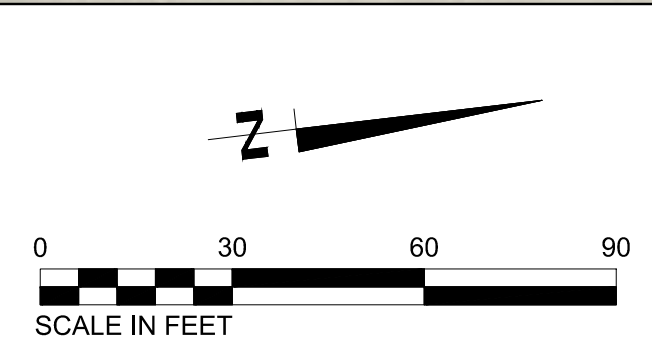
SHEET TITLE: **EROSION CONTROL PLAN (AREA 3) POST-CONSTRUCTION**

DWG. FILE NAME: 3327602-73C-EC-03.03.DWG  
 DATE: 03/11/2024 SHEET NO. C-EC-3.03  
 SCALE: 1"=40' SHEET 30 OF 47



CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-04. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

SEE SHEET C-SF-04 FOR TEMPORARY CONSTRUCTION EXIT

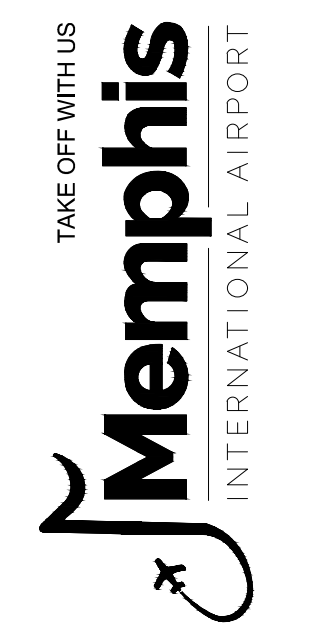


**LEGEND**

- 240 — EXISTING MAJOR CONTOUR
- - - 239 - - - EXISTING MINOR CONTOUR
- SF — SILT FENCE
- ☐ INLET PROTECTION

**EROSION CONTROL NOTES:**

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PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG

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REVISIONS

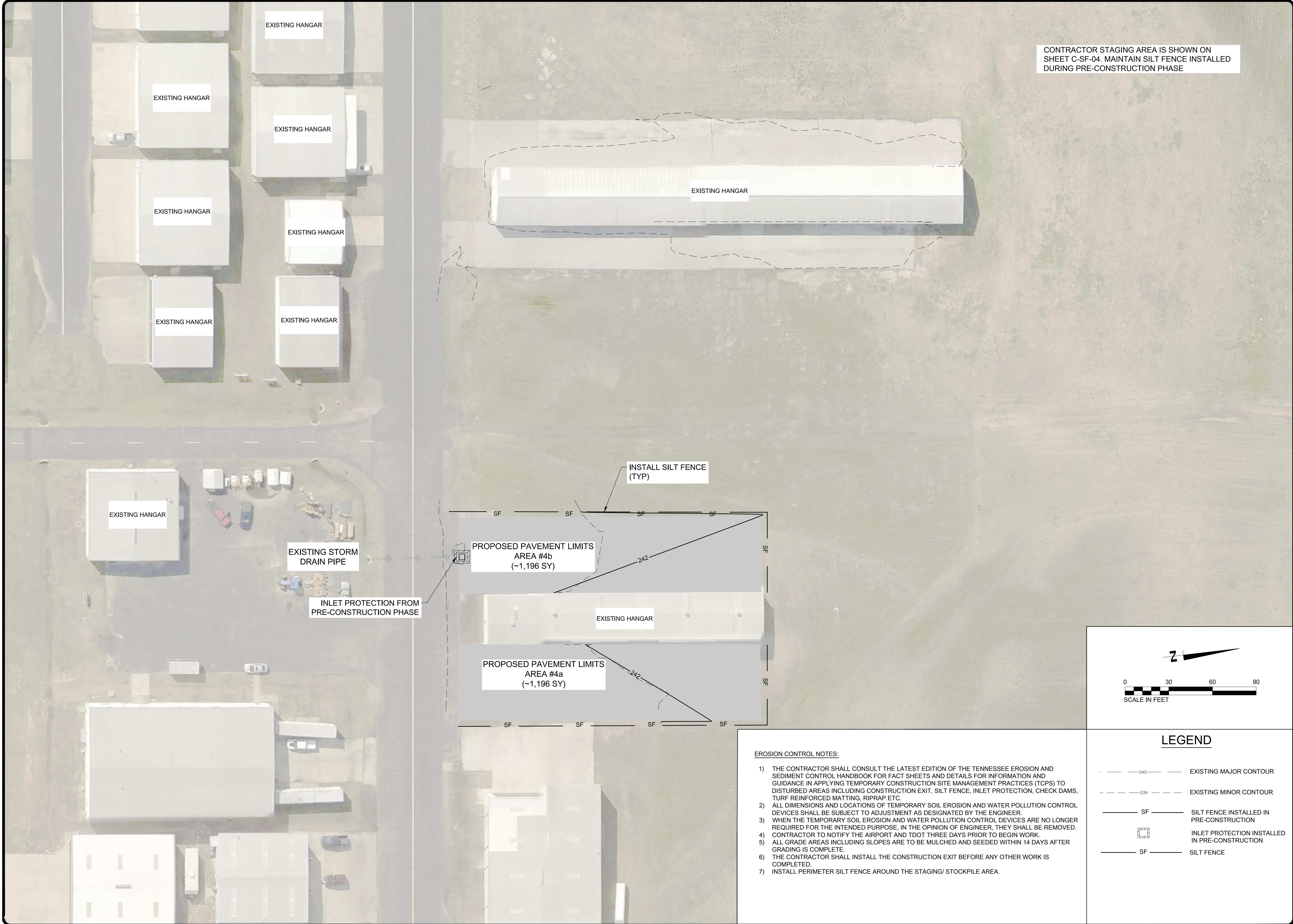
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

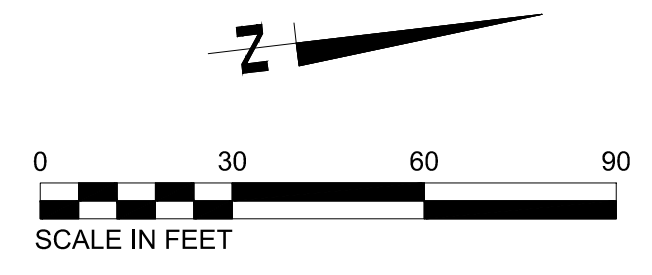
PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 4) PRE-CONSTRUCTION**

DWG. FILE NAME: 3327602-74C-EC-04.01.DWG  
 DATE: 03/11/2024 SHEET NO. C-EC-4.01  
 SCALE: 1"=30' SHEET 31 OF 47



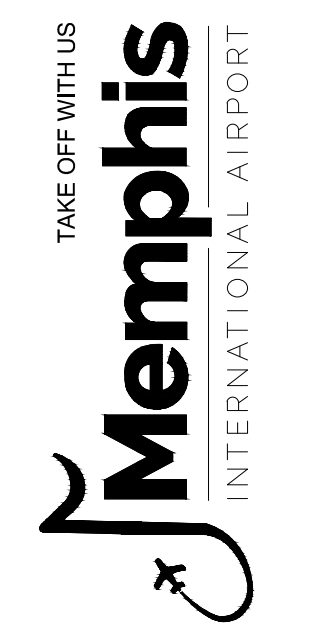
CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-04. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE



- EROSION CONTROL NOTES:**
- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TOPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
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  - 6) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

— 240 —	EXISTING MAJOR CONTOUR
- - - 239 - - -	EXISTING MINOR CONTOUR
— SF —	SILT FENCE INSTALLED IN PRE-CONSTRUCTION
☐	INLET PROTECTION INSTALLED IN PRE-CONSTRUCTION
— SF —	SILT FENCE



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG

**NOT IN CONTRACT**

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

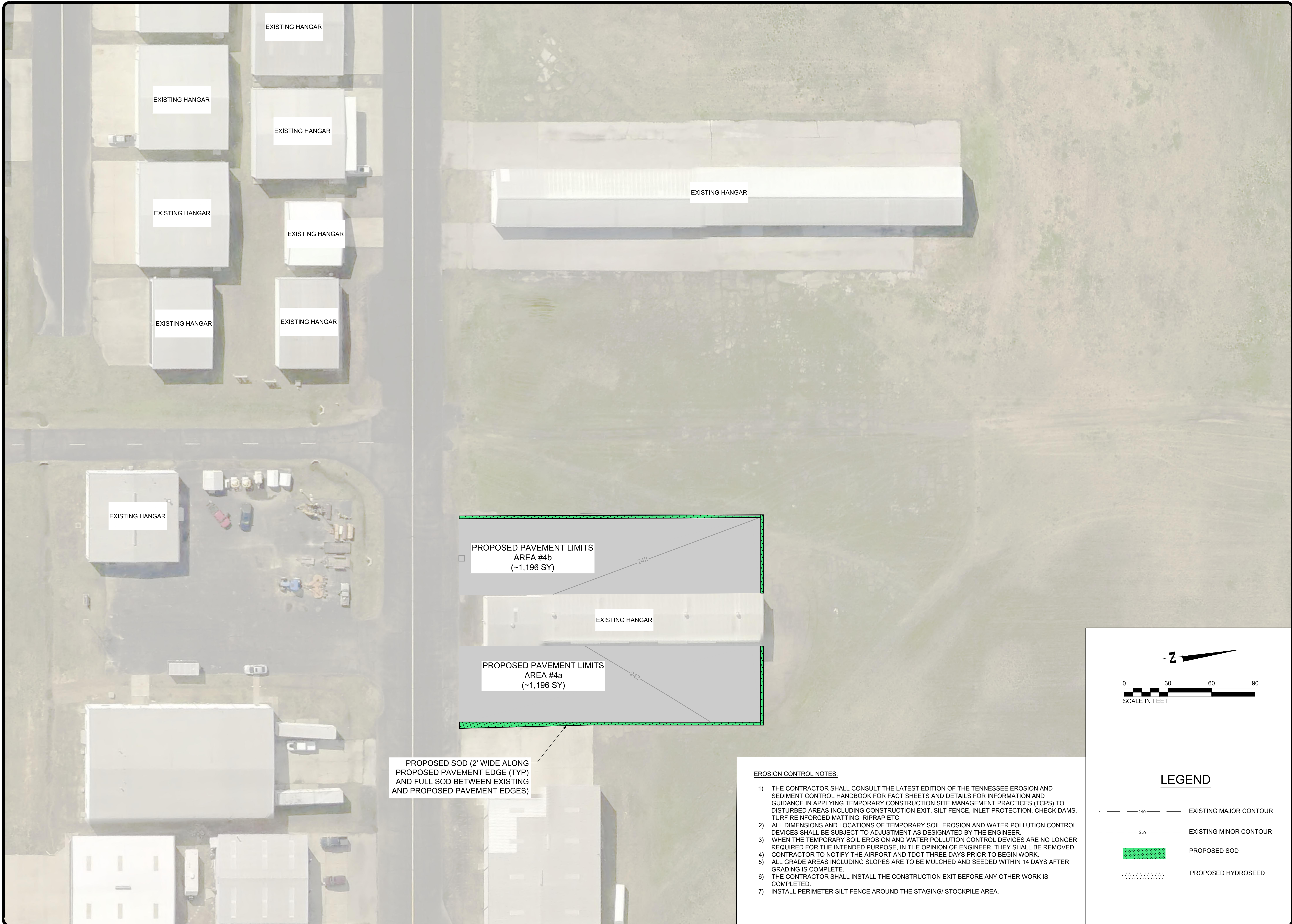
MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 4) DURING CONSTRUCTION**

DWG. FILE NAME: 3327602-74C-EC-04.02.DWG  
 DATE: 03/11/2024 SHEET NO.: C-EC-4.02  
 SCALE: 1"=30' SHEET: 32 OF 47



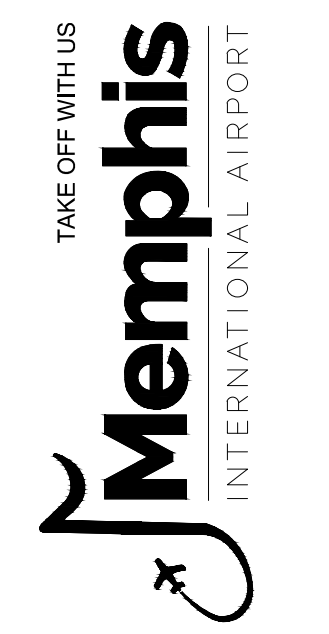


**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TSPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
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**LEGEND**

- 240 — EXISTING MAJOR CONTOUR
- - - 239 - - - EXISTING MINOR CONTOUR
- [Green Hatched Box] PROPOSED SOD
- [Dotted Box] PROPOSED HYDROSEED



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS  
 BARGE DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:  
**JEM**

CHECKED BY:  
**JDG**

APPROVED BY:  
**JEG**

**NOT IN CONTRACT**

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REVISIONS

MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 4) POST-CONSTRUCTION**

DWG. FILE NAME: 3327602-74C-EC-04.03.DWG  
 DATE: 03/11/2024 SHEET NO. C-EC-4.03  
 SCALE: 1"=30' SHEET 33 OF 47

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-05. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

N: 367921.91  
E: 794335.72

INSTALL SILT FENCE (TYP)

N: 368284.38  
E: 794378.49

SF

SF

SF

SF

SF

SF

SF

SF

N: 368277.34  
E: 794438.08

PROPOSED PAVEMENT LIMITS  
AREA #5b  
(~2,051 SY)

EXISTING HANGAR

N: 368272.78  
E: 794476.72

PROPOSED PAVEMENT LIMITS  
AREA #5a  
(~2,051 SY)

SF

SF

SF

SF

SF

SF

SF

SF

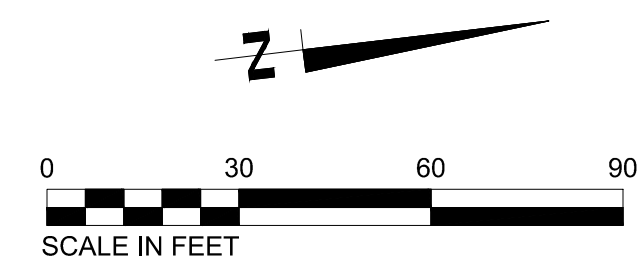
N: 368265.75  
E: 794536.31

N: 367904.19  
E: 794493.64

SEE SHEET C-SF-05 FOR TEMPORARY CONSTRUCTION EXIT

EXISTING STORM DRAIN PIPE

EXISTING HANGAR

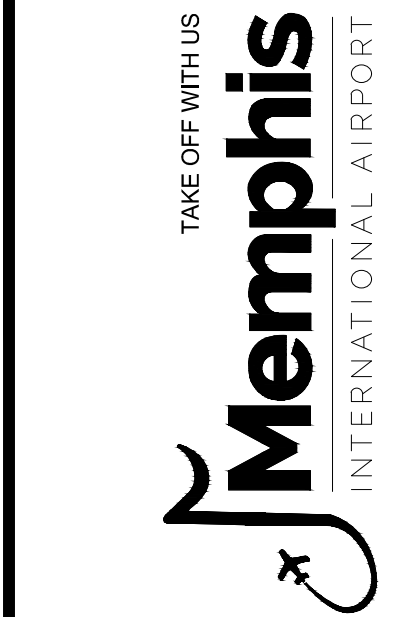


**EROSION CONTROL NOTES:**

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**LEGEND**

- 240 — — EXISTING MAJOR CONTOUR
- - - 239 - - - EXISTING MINOR CONTOUR
- SF — SILT FENCE
- ☐ INLET PROTECTION



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

APPROVED BY:

JEG

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**REVISIONS**

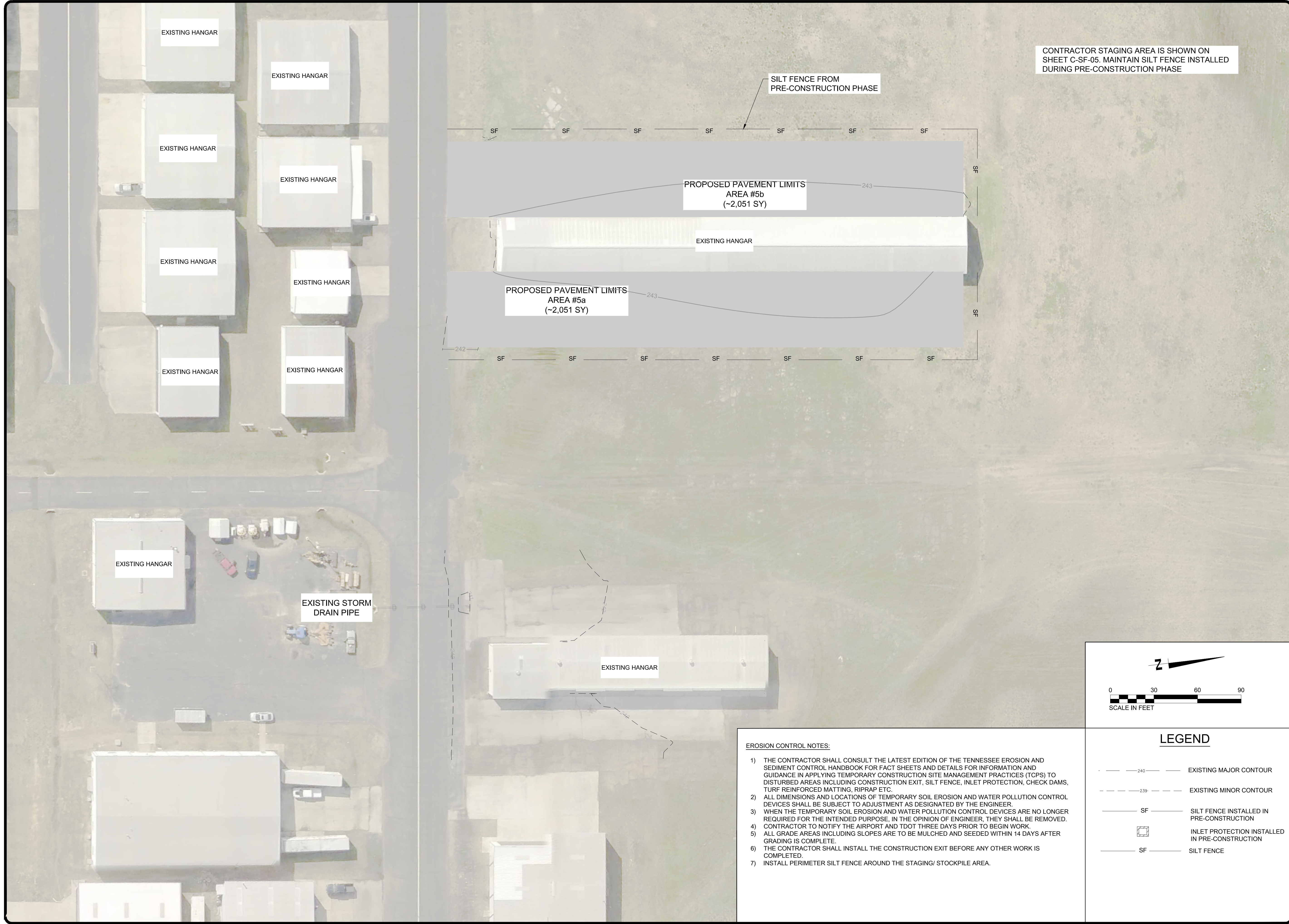
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT:  
**CHARLES BAKER  
 PAVEMENT  
 RECONSTRUCTION**

SHEET TITLE:  
**EROSION CONTROL  
 PLAN  
 (AREAS 5)  
 PRE-CONSTRUCTION**

DWG. FILE NAME  
**3327602-75C-EC-05.01.DWG**  
 DATE 03/11/2024 SHEET NO. **C-EC-5.01**  
 SCALE 1"=30' SHEET 34 OF 47



CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-05. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE

SILT FENCE FROM PRE-CONSTRUCTION PHASE

PROPOSED PAVEMENT LIMITS  
AREA #5b  
(~2,051 SY)

EXISTING HANGAR

PROPOSED PAVEMENT LIMITS  
AREA #5a  
(~2,051 SY)

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING STORM DRAIN PIPE

EXISTING HANGAR

**EROSION CONTROL NOTES:**

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**LEGEND**

- 240 — EXISTING MAJOR CONTOUR
- - - 239 - - - EXISTING MINOR CONTOUR
- SF — SILT FENCE INSTALLED IN PRE-CONSTRUCTION
- ☐ INLET PROTECTION INSTALLED IN PRE-CONSTRUCTION
- SF — SILT FENCE



PROGRAM MANAGER

ENGINEER



**BARGE DESIGN SOLUTIONS, INC.**  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY:

JEM

CHECKED BY:

JDG

APPROVED BY:

JEG

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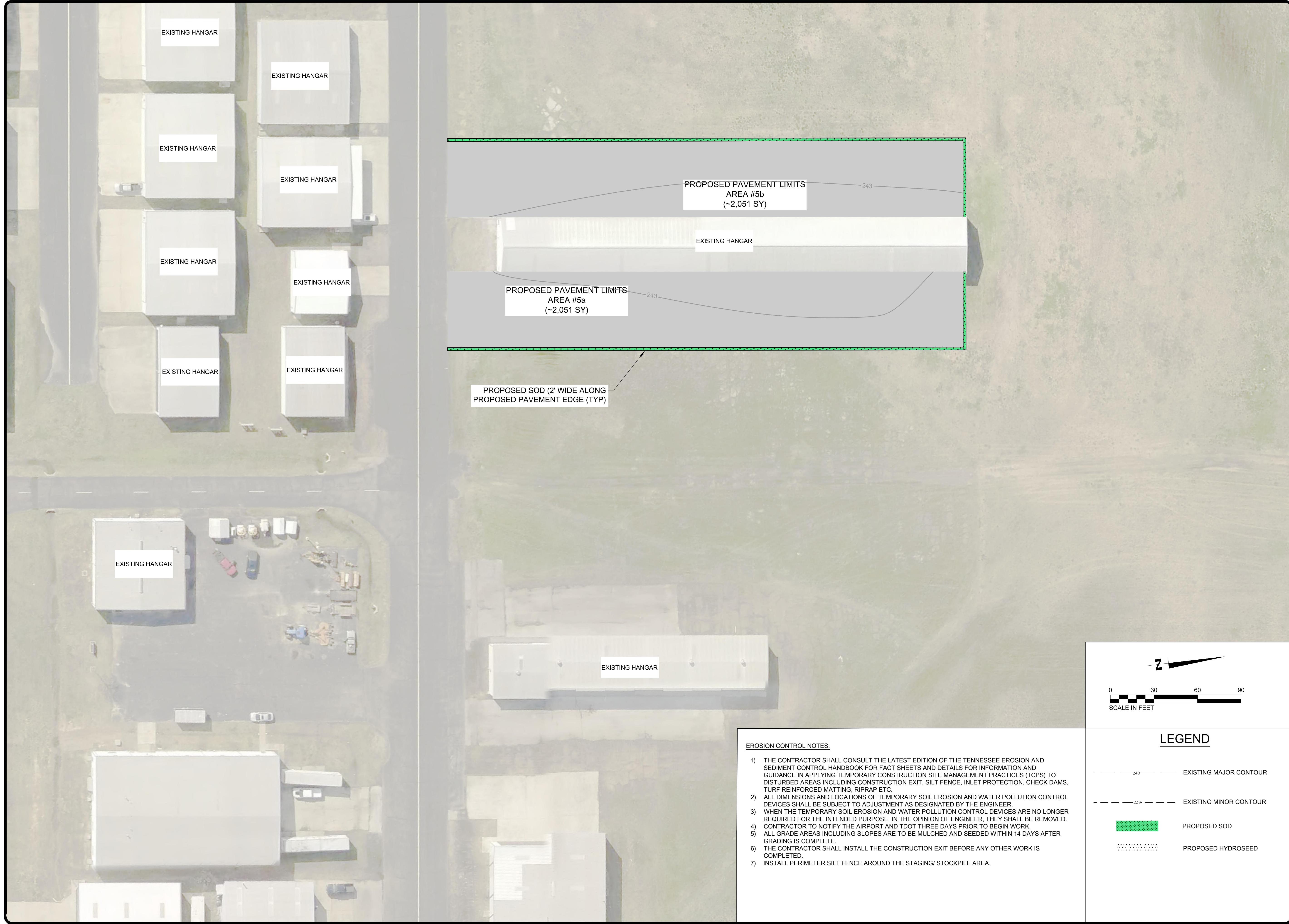
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**


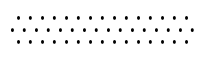
SHEET TITLE: **EROSION CONTROL PLAN (AREAS 5) DURING CONSTRUCTION**

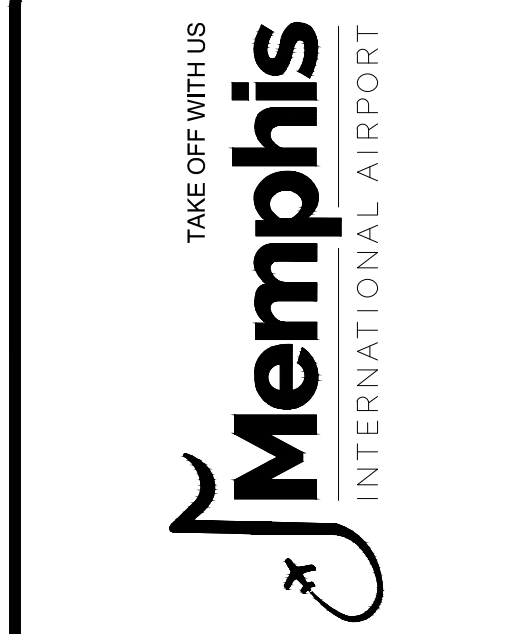
DWG. FILE NAME	3327602-75C-EC-05.02.DWG
DATE	03/11/2024
SCALE	1"=30'
SHEET NO.	C-EC-5.02
SHEET	35 OF 47



- EROSION CONTROL NOTES:**
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**LEGEND**

— 240 —	EXISTING MAJOR CONTOUR
- - - 239 - - -	EXISTING MINOR CONTOUR
	PROPOSED SOD
	PROPOSED HYDROSEED



PROGRAM MANAGER

ENGINEER  
**BARGE**  
 DESIGN SOLUTIONS, INC.  
 BARGE DESIGN SOLUTIONS, INC.  
 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. 33276-02

DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG

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REVISIONS

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 5) POST-CONSTRUCTION**

DWG. FILE NAME: 3327602-75C-EC-05.03.DWG

DATE: 03/11/2024 SHEET NO. C-EC-5.03

SCALE: 1"=30' SHEET 36 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-06. SILT FENCE TO BE PLACED AROUND PERIMETER OF STAGING AREA (500LF)

SEE SHEET C-SF-06 FOR TEMPORARY CONSTRUCTION EXIT

INSTALL INLET PROTECTION AT EXISTING INLET (TYP)

N: 367136.17  
E: 794042.82

N: 367242.13  
E: 794103.07

N: 367226.02  
E: 794118.22

N: 367214.77  
E: 794135.83

N: 367196.48  
E: 794277.22

N: 367266.08  
E: 794096.36

N: 367403.27  
E: 794128.56

N: 367413.73  
E: 794146.23

N: 367415.85  
E: 794168.13

N: 367400.39  
E: 794303.82

UTILITY CUT REPAIR  
AREA #6c  
(~121 SY)

N: 367370.24  
E: 794069.99

N: 367365.83  
E: 794108.02

N: 367385.49  
E: 794113.62

INSTALL SILT FENCE  
(TYP)

N: 367516.12  
E: 794086.92

UTILITY CUT REPAIR  
AREA #6b  
(~40 SY)

N: 367617.46  
E: 794098.68

N: 367738.48  
E: 794112.73

UTILITY CUT REPAIR  
AREA #6a  
(~46 SY)

N: 367858.48  
E: 794126.66

N: 367511.82  
E: 794123.97

N: 367613.01  
E: 794137.06

N: 367733.61  
E: 794154.65

N: 367853.46  
E: 794169.93

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR


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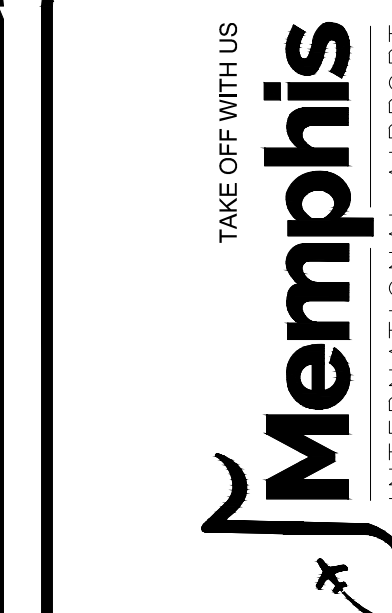
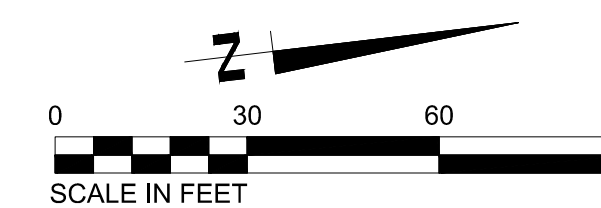
EXISTING HANGAR

**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
- 2) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 3) WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF ENGINEER, THEY SHALL BE REMOVED. CONTRACTOR TO NOTIFY THE AIRPORT AND TDOT THREE DAYS PRIOR TO BEGIN WORK.
- 4) ALL GRADE AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER GRADING IS COMPLETE.
- 5) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 6) THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION EXIT BEFORE ANY OTHER WORK IS COMPLETED.
- 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- SF — SILT FENCE
-  INLET PROTECTION



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**BARGE**  
DESIGN SOLUTIONS, INC.  
65 GERMANTOWN CT, SUITE 100  
MEMPHIS, TN 38018

JOB NO. 33276-02

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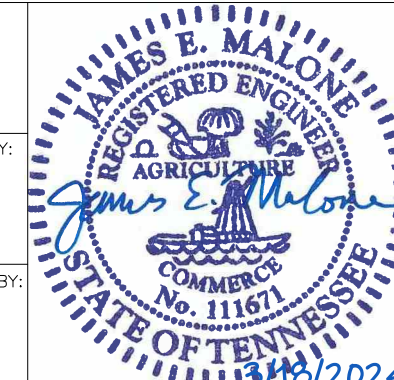
JEM

CHECKED BY:

JDG

APPROVED BY:

JEG



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**REVISIONS**

MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 6) PRE-CONSTRUCTION**

DWG. FILE NAME: 3327602-76C-EC-06.01.DWG  
DATE: 03/11/2024  
SCALE: 1"=30'  
SHEET NO. C-EC-6.01  
37 OF 47

CONTRACTOR STAGING AREA IS SHOWN ON SHEET C-SF-06. MAINTAIN SILT FENCE INSTALLED DURING PRE-CONSTRUCTION PHASE

INLET PROTECTION FROM PRE-CONSTRUCTION PHASE

INSTALL INLET PROTECTION AT PROPOSED INLET

UTILITY CUT REPAIR AREA #6c (~121 SY)

SILT FENCE FROM PRE-CONSTRUCTION PHASE

UTILITY CUT REPAIR AREA #6b (~40 SY)

UTILITY CUT REPAIR AREA #6a (~46 SY)

INSTALL HEADWALL PROTECTION AT PROPOSED HEADWALL

4' WIDE GRADED SWALE

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

EXISTING HANGAR

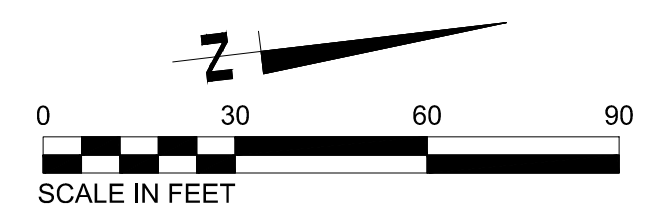
EXISTING HANGAR

**EROSION CONTROL NOTES:**

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**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- SF — SILT FENCE INSTALLED IN PRE-CONSTRUCTION
- ☐ INLET PROTECTION INSTALLED IN PRE-CONSTRUCTION
- SF — SILT FENCE



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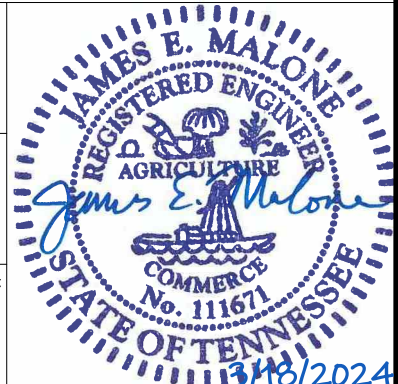
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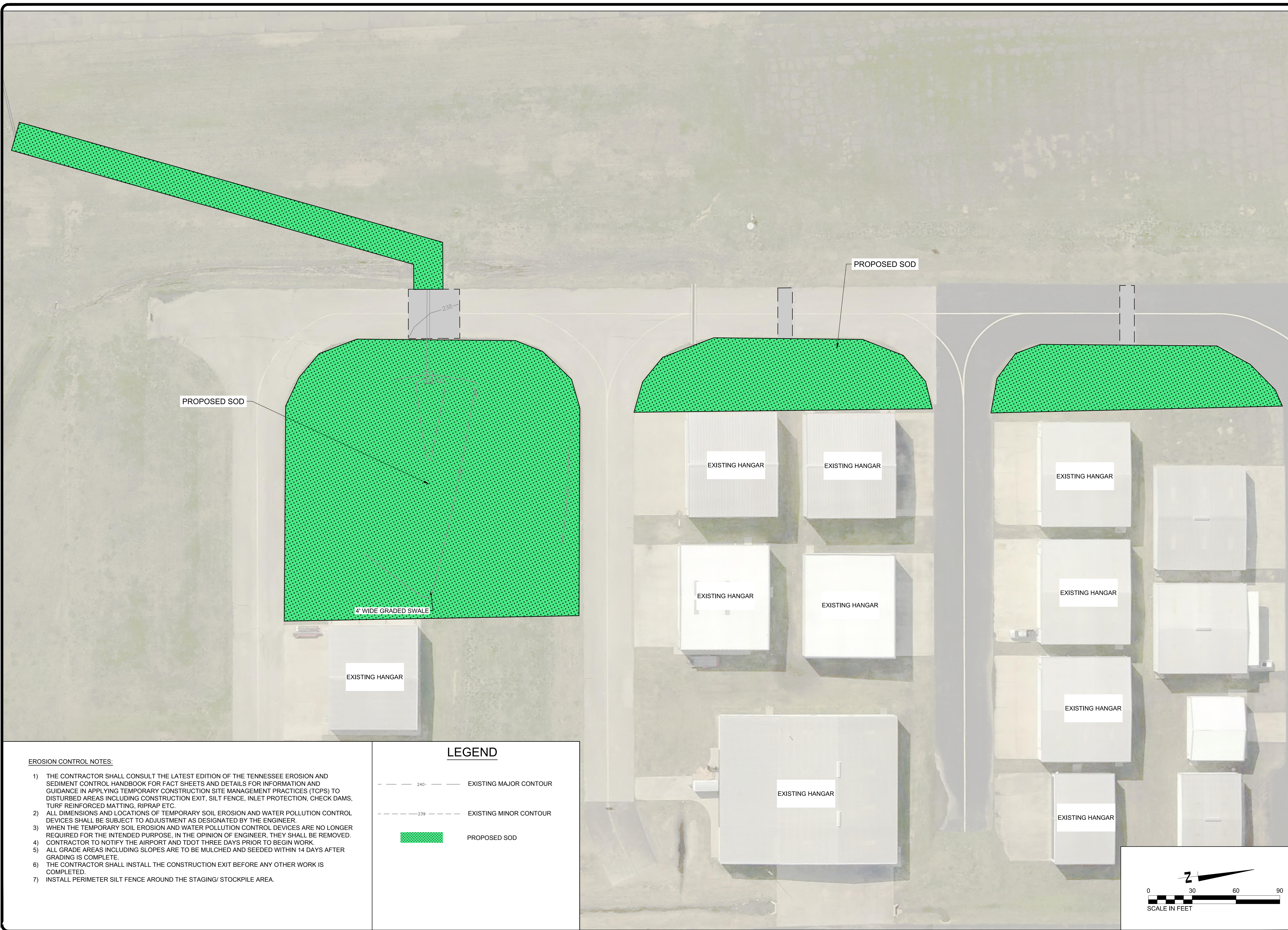
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **EROSION CONTROL PLAN (AREA 6) DURING CONSTRUCTION**

DWG. FILE NAME: 3327602-76C-EC-06.02.DWG  
 DATE: 03/11/2024  
 SCALE: 1"=30'  
 SHEET NO.: C-EC-6.02  
 SHEET: 38 OF 47



**EROSION CONTROL NOTES:**

- 1) THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR FACT SHEETS AND DETAILS FOR INFORMATION AND GUIDANCE IN APPLYING TEMPORARY CONSTRUCTION SITE MANAGEMENT PRACTICES (TCPS) TO DISTURBED AREAS INCLUDING CONSTRUCTION EXIT, SILT FENCE, INLET PROTECTION, CHECK DAMS, TURF REINFORCED MATTING, RIPRAP ETC.
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- 7) INSTALL PERIMETER SILT FENCE AROUND THE STAGING/ STOCKPILE AREA.

**LEGEND**

- 240 --- EXISTING MAJOR CONTOUR
- 239 --- EXISTING MINOR CONTOUR
- PROPOSED SOD

PROGRAM MANAGER

ENGINEER  
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 DESIGN SOLUTIONS  
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 65 GERMANTOWN CT, SUITE 100  
 MEMPHIS, TN 38018

JOB NO. **33276-02**

DRAWN BY: **JEM**  
 CHECKED BY: **JDG**  
 APPROVED BY: **JEG**

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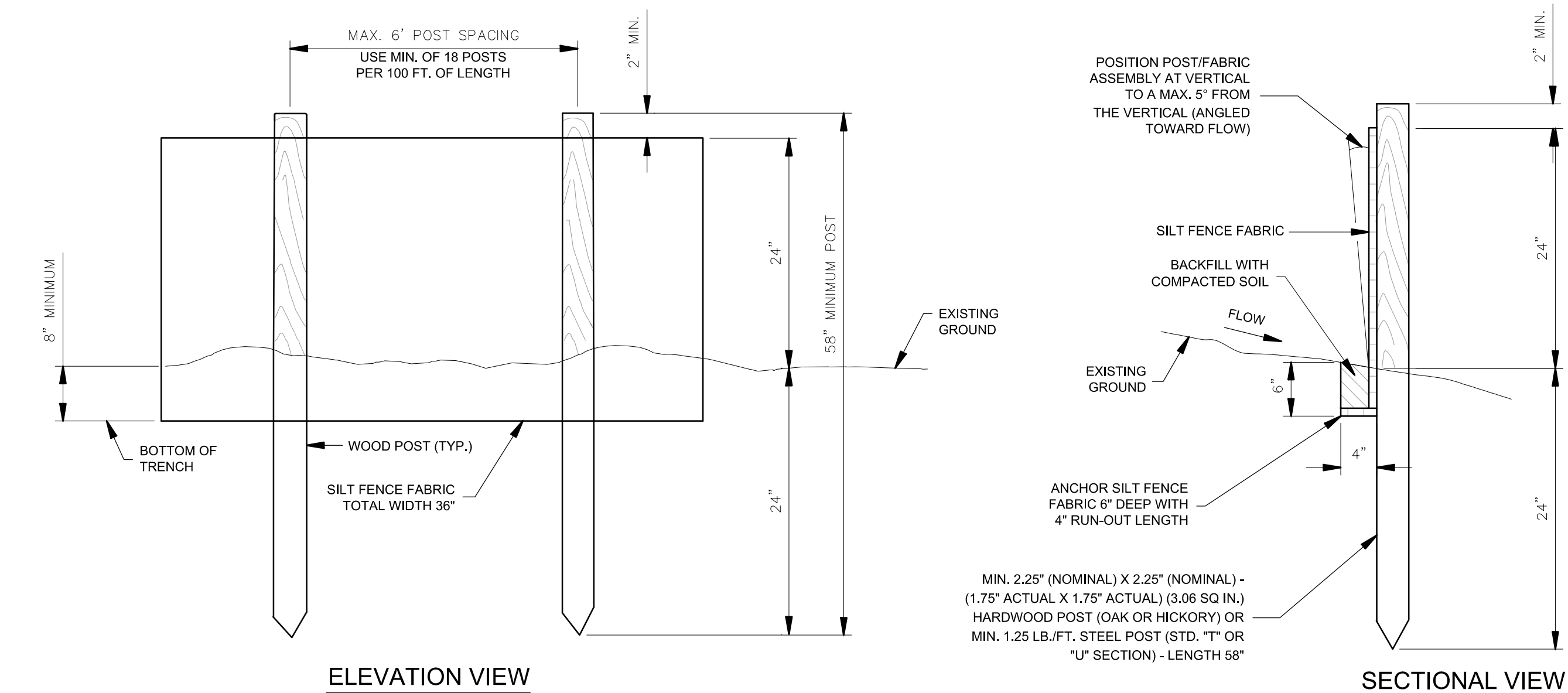
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	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. **18-1420-01**

PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

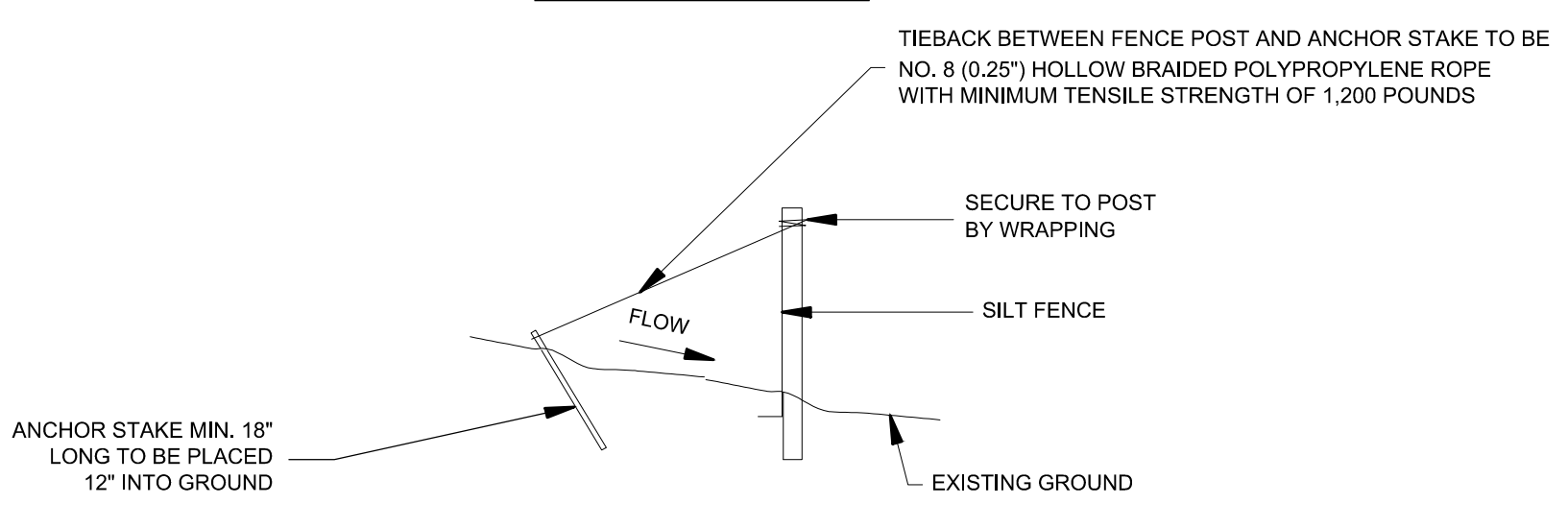
SHEET TITLE: **EROSION CONTROL PLAN (AREA 6) POST-CONSTRUCTION**

DWG. FILE NAME: **3327602-76C-EC-06.03.DWG**  
 DATE: **03/11/2024** SHEET NO.: **C-EC-6.03**  
 SCALE: **1"=30'** SHEET: **39 OF 47**



ELEVATION VIEW

SECTIONAL VIEW

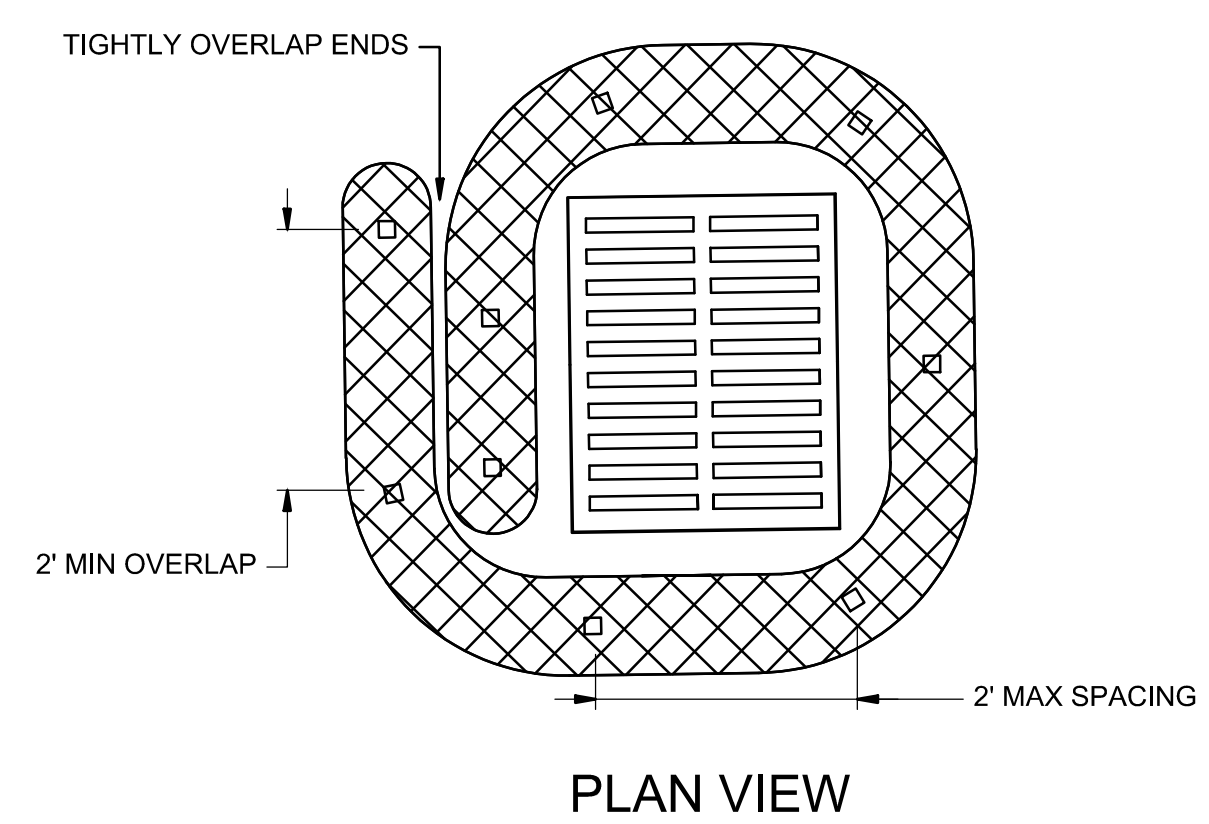


SILT FENCE TIEBACK FOR STEEL POSTS OR WOOD POSTS

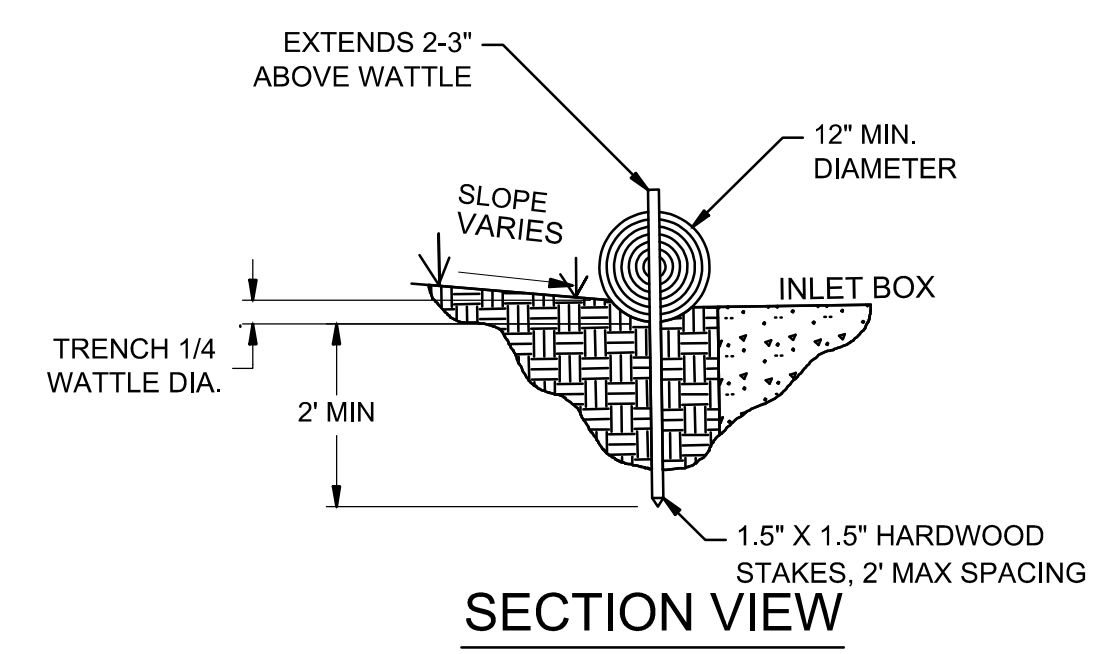
**SILT FENCE NOTES**

1. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION FOR GEOTEXTILES AASHTO DESIGNATION: M288, SEDIMENT CONTROL, SELF SUPPORTED.
2. THE FILTER MATERIAL SHALL BE STAPLED TO THE STAKES. HEAVY DUTY WIRE STAPLES WITH 1/2 INCH WIDTH SHALL BE USED AND EVENLY SPACED WITH AT LEAST FOUR PER POST FOR SILT FENCES AND THREE (3) PER POST FOR FILTER BARRIERS. FILTER MATERIAL SHALL NOT BE STAPLED TO EXISTING TREES.
3. MINIMUM (2" NOMINAL X 2" NOMINAL) - (1.5" ACTUAL X 1.5" ACTUAL) (2.25 SQ. IN.) HARDWOOD POST (OAK OR HICKORY) - LENGTH 48" OR MINIMUM 1.33 LB./FT. STEEL POST (STD. OR U SECTION).
4. WHEN STEEL POSTS ARE USED THEY SHALL HAVE A PROTECTION FOR FASTENING WIRE TO THEM. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST FIVE PER POST.
5. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN 12" DEEP.
6. INSTALL FENCE ALONG CONTOUR (NEVER UP AND DOWN SLOPE).
7. SILT FENCE SHALL BE MAINTAINED UNTIL CONTRIBUTING AREA IS STABILIZED WITH PAVEMENT OR VEGETATION. ALL FENCING SHALL BE REMOVED AFTER STABILIZATION AND DISPOSED OF IN AN APPROVED LANDFILL.

01 EROSION CONTROL SILT FENCE  
EC-7.1 N.T.S. C-102-5.1



PLAN VIEW

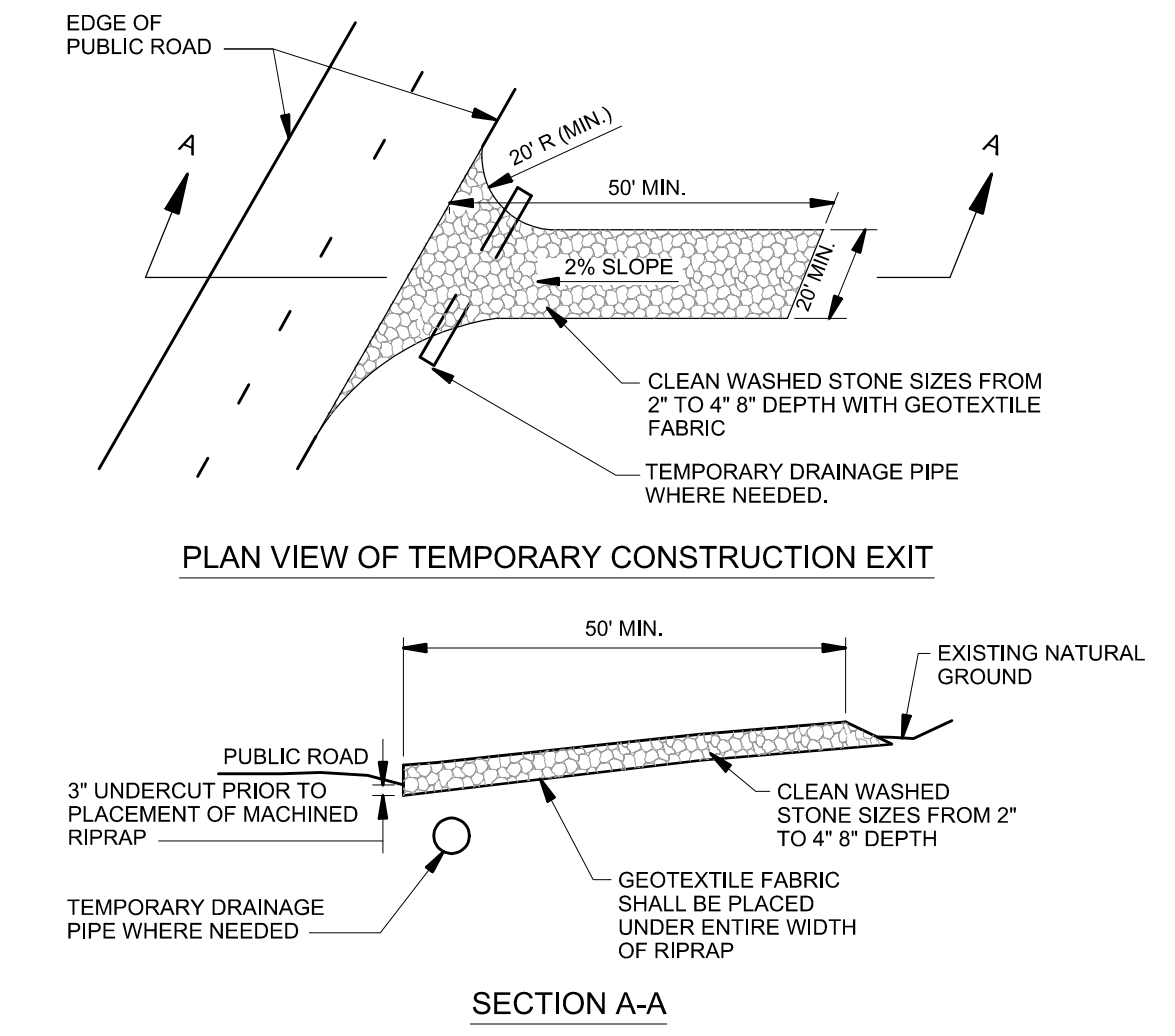


SECTION VIEW

- NOTES:
1. WATTLE MATERIAL SHALL COMPLY WITH TDOT HIGHWAY CONSTRUCTION SPECIFICATIONS.
  2. SLOPE BARRIERS SHALL BE PLACED ALONG CONTOUR LINES. WITH A SHORT SECTION TURNED UPGRADE AT EACH END OF THE BARRIER. MAXIMUM LENGTH OF THE SLOPE BARRIER SHALL NOT EXCEED 250'. BARRIER ENDS SHALL BE STAGGERED.
  3. WITH APPROVAL OF THE ENGINEER, SILT FENCE MAY BE ALLOWED AS AN ALTERNATIVE SLOPE BARRIER.
  4. WATTLES USED TO CONTROL SHEET FLOW AT PAVEMENT EDGES SHALL BE WEIGHTED WITH GRAVEL BAGS OR APPROVE EQUAL.

02 WATTLE INLET PROTECTION  
EC-7.1 SCALE: NONE C-102-5.2

WATTLES CAN ALSO BE WEIGHTED WITH GRAVEL BAGS WHERE STAKING IS NOT POSSIBLE.



**CONSTRUCTION SPECIFICATIONS**

1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE EXIT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE EXIT WHERE INGRESS OR EGRESS OCCURS OR 20 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FABRIC SHALL BE 12 OZ./S.Y. NON-WOVEN.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION EXIT SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

02 TEMPORARY CONSTRUCTION EXIT  
EC-7.1 N.T.S. C-102-5.4

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JOB NO. 33276-02

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APPROVED BY: JEG

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MARK	DATE	DESCRIPTION
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MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE:

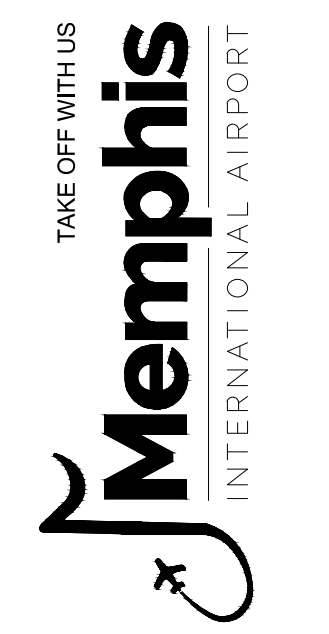
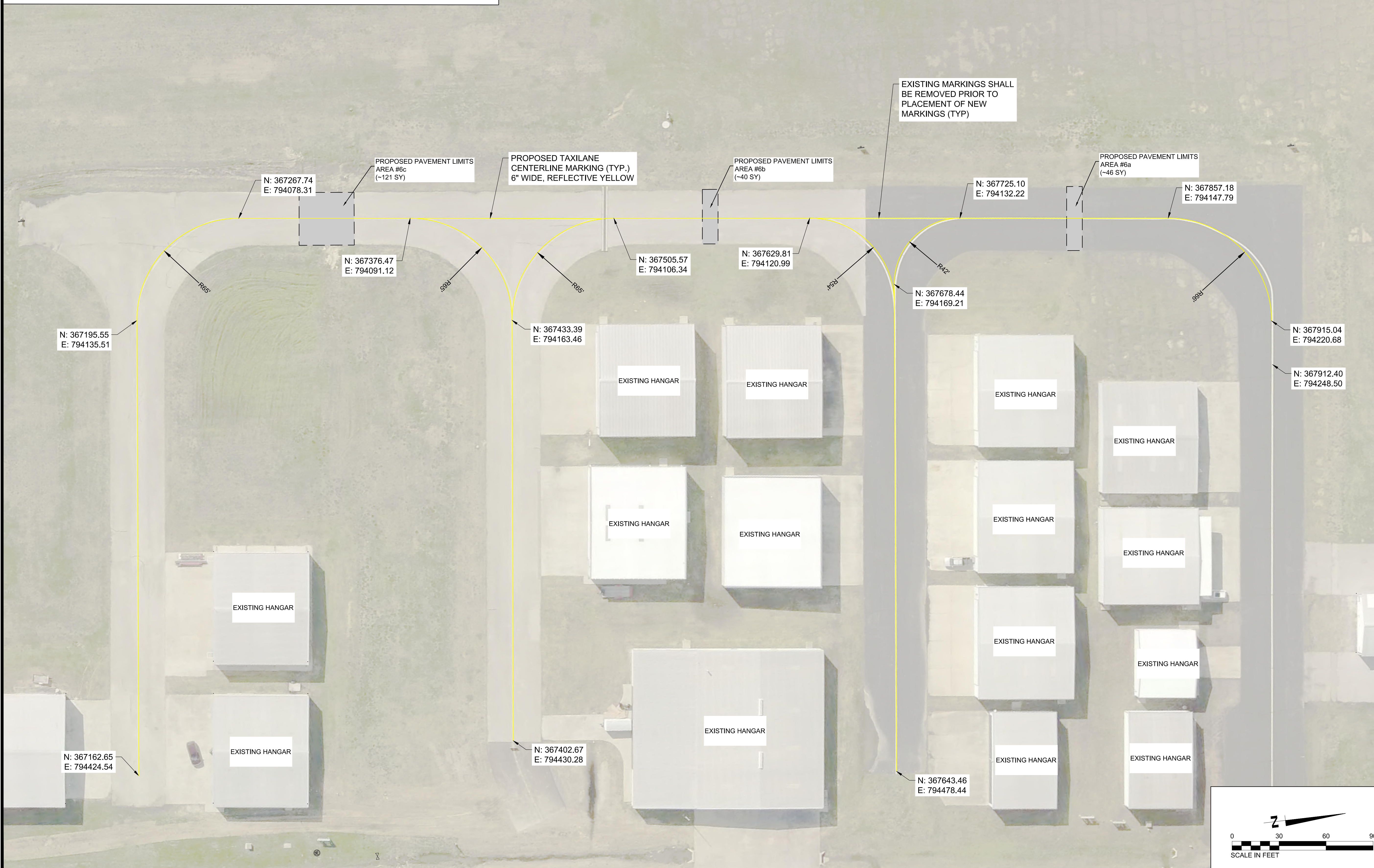
**EROSION CONTROL DETAILS**





**MARKING PLAN NOTES:**

1. A PERIOD OF 30 DAYS SHALL ELAPSE BETWEEN PLACEMENT OF SURFACE COURSE OR SEAL COAT AND THE APPLICATION OF PERMANENT PAINT MARKINGS. TEMPORARY MARKINGS SHALL BE APPLIED AS SOON AS PRACTICAL AFTER THE PLACEMENT OF SURFACE COURSE OR SEAL COAT. PAINT SHALL BE APPLIED AT THE LOCATIONS AND TO THE DIMENSIONS AND SPACING SHOWN ON THE PLANS. PAINT SHALL NOT BE APPLIED UNTIL THE LAYOUT AND CONDITION OF THE SURFACE HAS BEEN APPROVED BY THE RPR.
2. PRIOR TO THE FULL APPLICATION OF AIRFIELD MARKINGS, THE CONTRACTOR SHALL PREPARE A CONTROL STRIP IN THE PRESENCE OF THE RPR. THE CONTRACTOR SHALL DEMONSTRATE THE SURFACE PREPARATION METHOD AND ALL STRIPING EQUIPMENT TO USED ON THE PROJECT. THE MARKING EQUIPMENT MUST ACHIEVE THE PRESCRIBED APPLICATION RATE OF PAINT AND POPULATION OF GLASS BEADS (PER P-620) THAT ARE PROPERLY EMBEDDED AND EVENLY DISTRIBUTED ACROSS THE FULL WIDTH OF THE MARKING. PRIOR TO ACCEPTANCE OF THE CONTROL STRIP, MARKINGS MUST BE EVALUATED DURING DARKNESS TO ENSURE A UNIFORM APPEARANCE.
3. REFLECTANCE SHALL BE MEASURED WITH A PORTABLE RETRO-REFLECTOMETER MEETING ASTM E1710 (OR EQUIVALENT). A TOTAL OF 6 READINGS SHALL BE TAKEN OVER A 6 SQUARE FOOT AREA WITH 3 READINGS TAKEN FROM EACH DIRECTION. THE AVERAGE SHALL BE EQUAL TO OR ABOVE THE MINIMUM LEVELS OF ALL READINGS WHICH ARE WITHIN 30% OF EACH OTHER.



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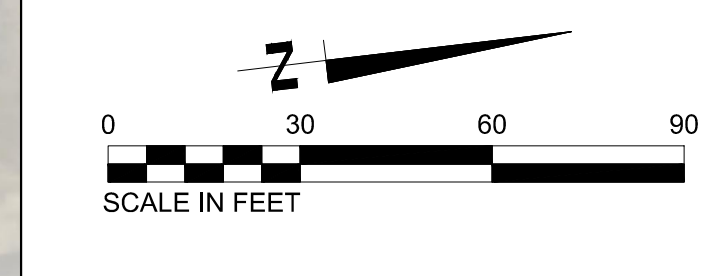
MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

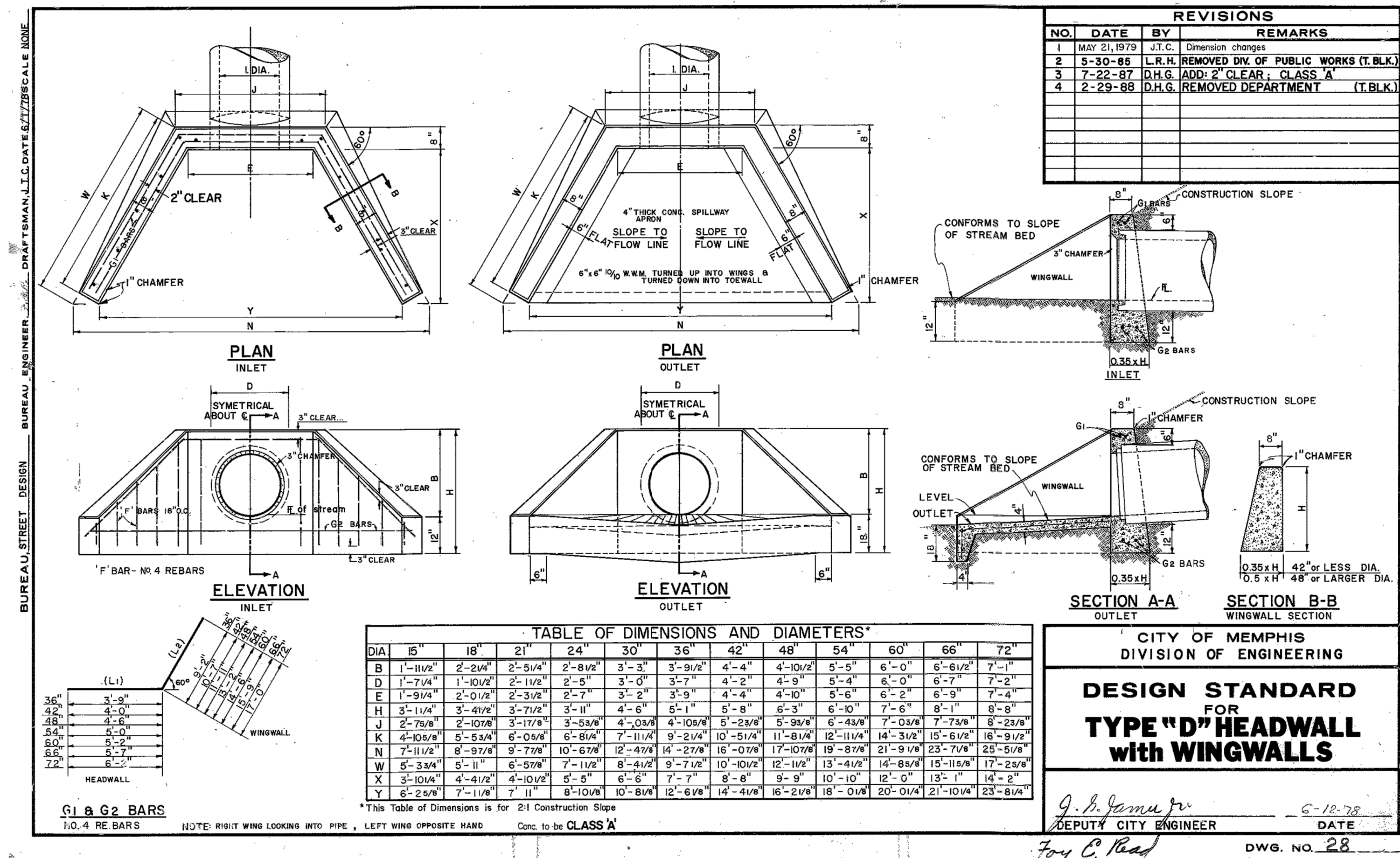
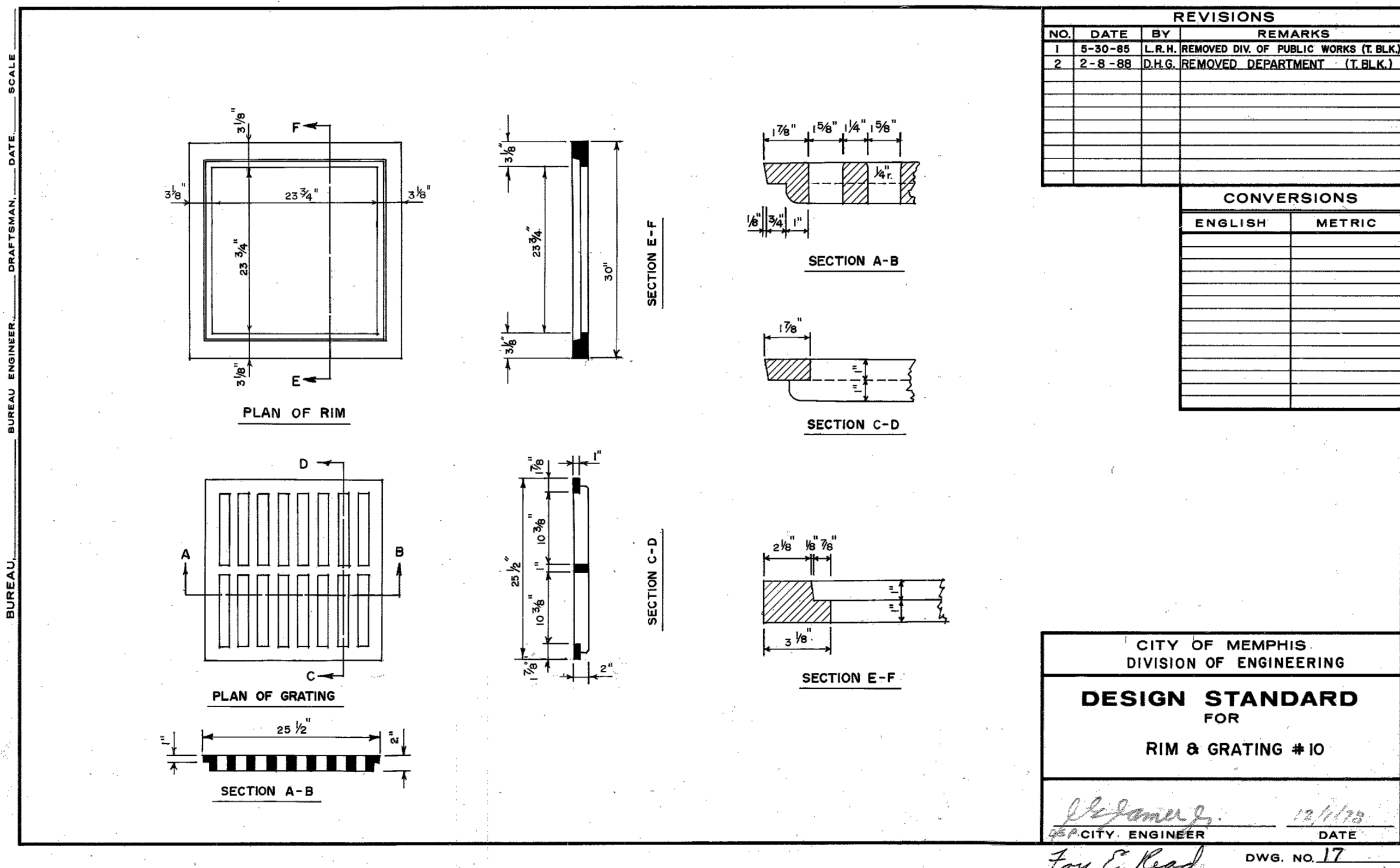
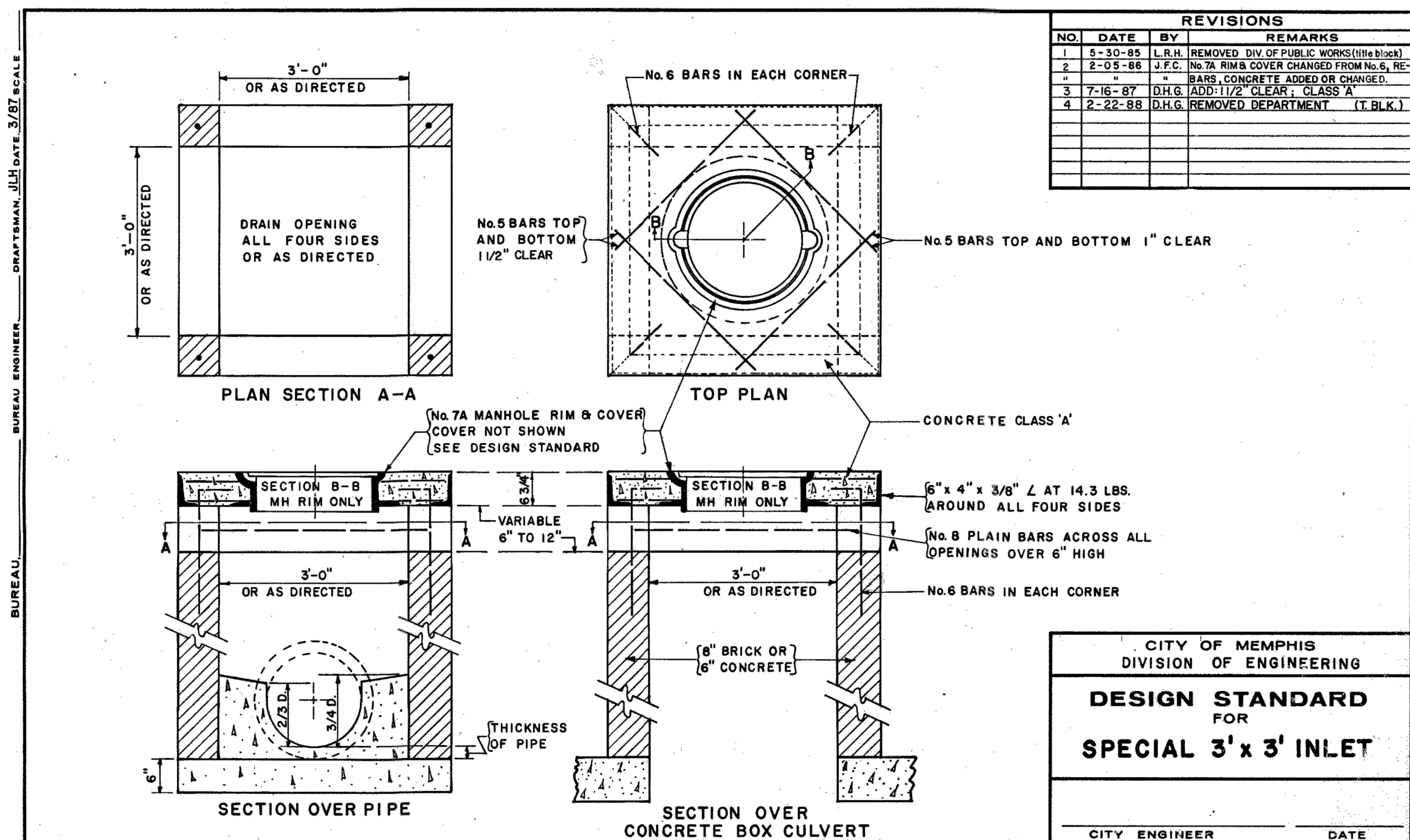
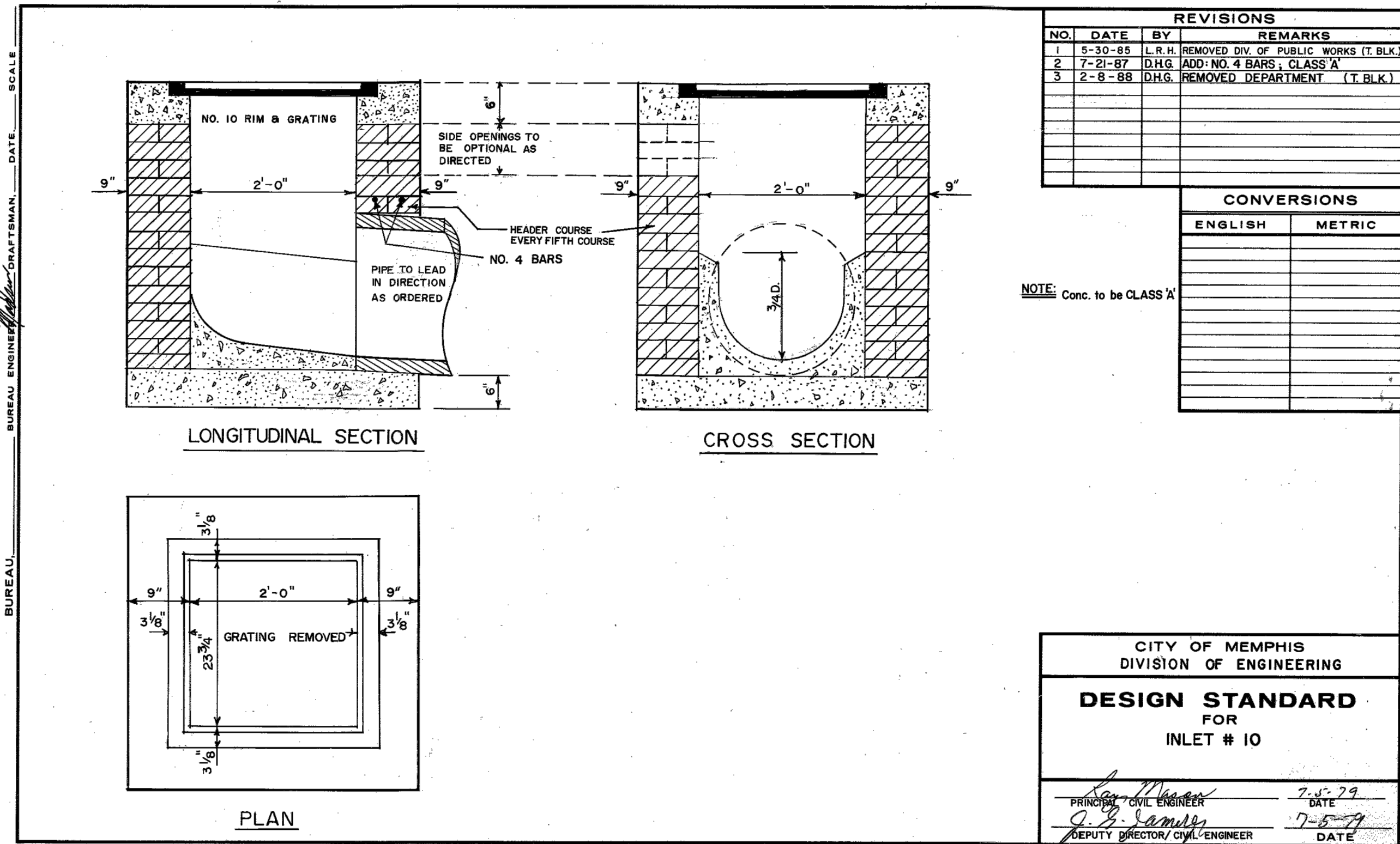
SHEET TITLE: AIRFIELD MARKING PLAN (AREA 6)

DWG. FILE NAME: 3327602-82C-MP-02.DWG  
 DATE: 03/11/2024  
 SCALE: 1"=30'

SHEET NO. C-MP-02  
 SHEET 42 OF 47







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APPROVED BY: JEG

STATE OF TENNESSEE  
COMMERCIAL  
No. 11671  
12/15/2024

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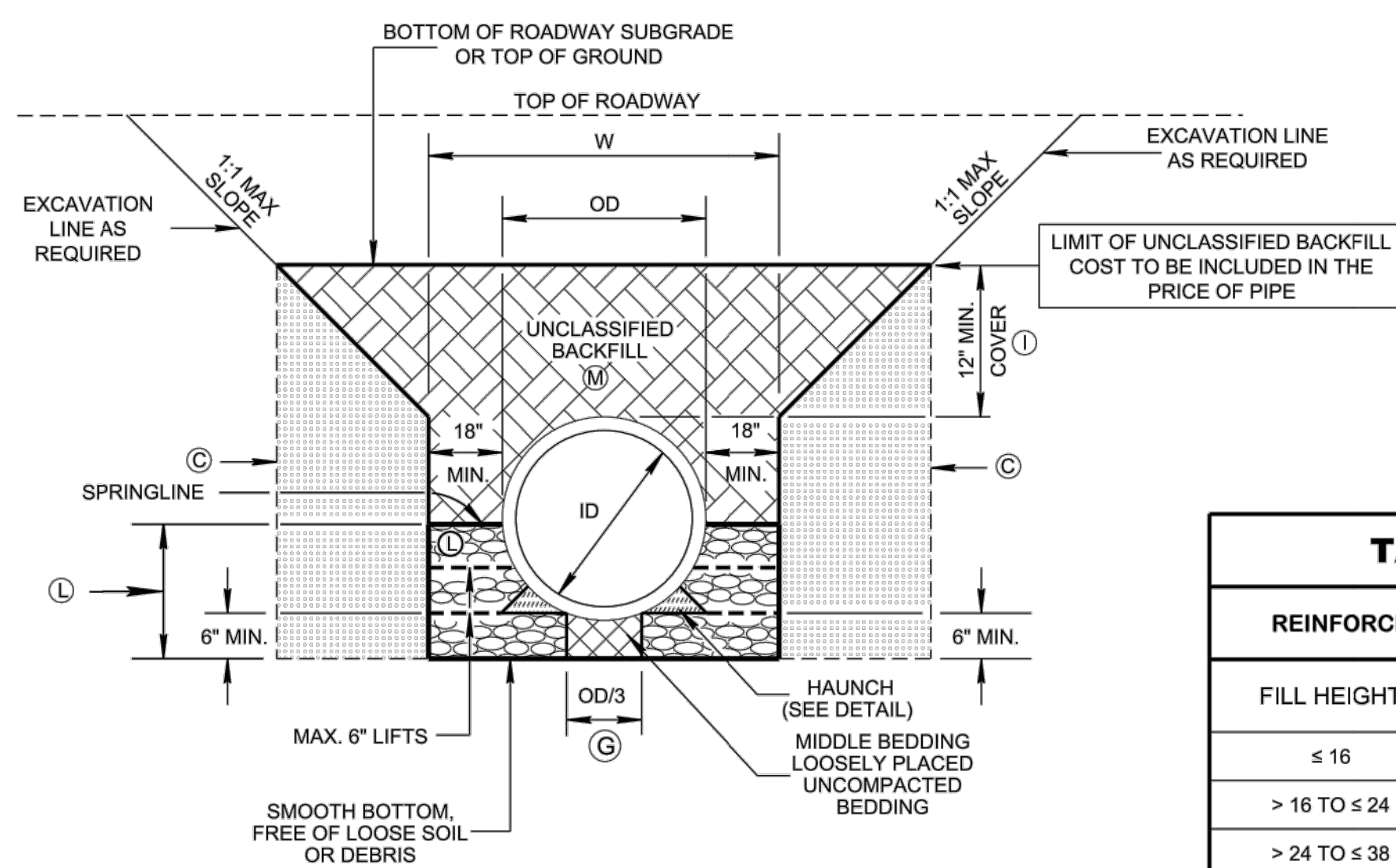
MARK	DATE	DESCRIPTION
	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER PAVEMENT RECONSTRUCTION

SHEET TITLE: DETAILS

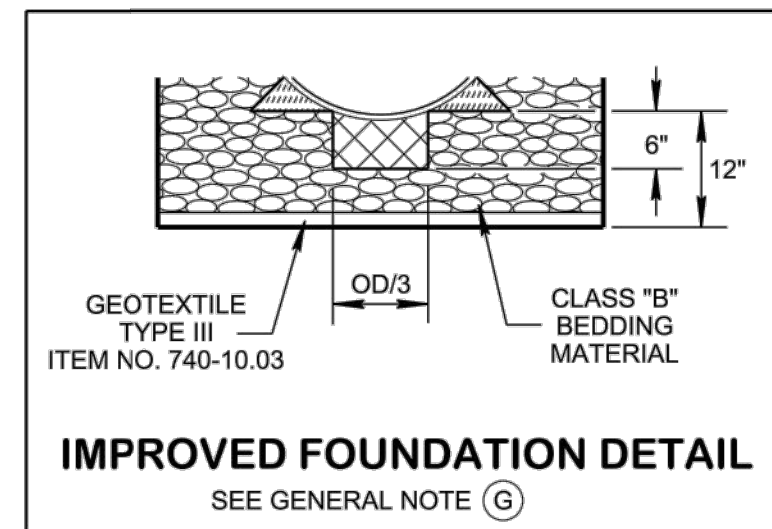
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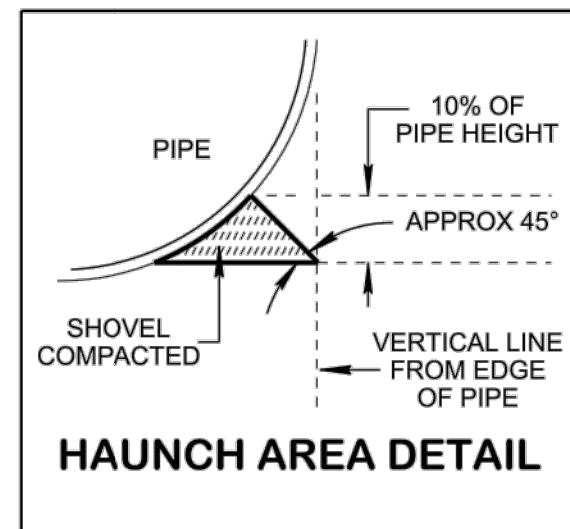
**STANDARD TRENCH INSTALLATION**

(PIPE CULVERT INSTALLATION DETAIL)  
NOTE: CENTER PIPE IN TRENCH  
SEE GENERAL NOTE (B)

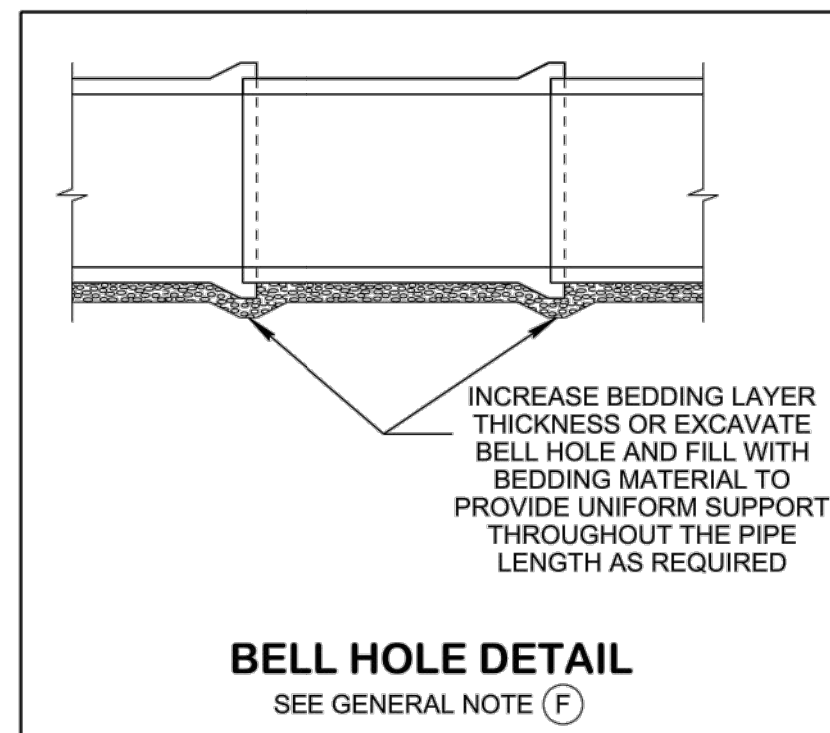
TABLE A	
REINFORCED CONCRETE PIPE	
FILL HEIGHT	CLASSIFICATION (AASHTO M170)
≤ 16	III
> 16 TO ≤ 24	IV
> 24 TO ≤ 38	V
> 38	SPECIAL DESIGN



**IMPROVED FOUNDATION DETAIL**  
SEE GENERAL NOTE (G)



**HAUNCH AREA DETAIL**



**BELL HOLE DETAIL**  
SEE GENERAL NOTE (F)

**LEGEND**

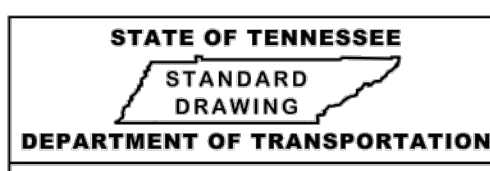
- ID = INSIDE DIAMETER
- OD = OUTSIDE DIAMETER
- CLASS "B" BEDDING COMPACTED TO 90% STANDARD PROCTOR DENSITY
- CLASS "B" BEDDING UNCOMPACTED
- FIRM INSITU SOIL OR CLASS "B" BEDDING COMPACTED TO 90% STANDARD PROCTOR DENSITY
- HAUNCH AREA, SHOVEL COMPACTED
- UNCLASSIFIED BACKFILL (FINE COMPACTABLE SOIL)

**GENERAL NOTES**

- PIPE MATERIALS:**
- (A) REINFORCED CONCRETE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M-170. THE WALL THICKNESS SHALL BE "WALL B" (EXPECT: FOR STRUCTURES DEEPER THAN THE MINIMUM DEPTH, "WALL C" MAY BE USED) AND THE RCP CLASS SHALL BE AS LISTED IN "TABLE A". ALL PIPE MANUFACTURING PLANTS SHALL BE CERTIFIED BY EITHER ACPA OR NPCA. REFER SOP 5-3 FOR MORE INFORMATION.
- INSTALLATIONS REQUIREMENTS:**
- (B) FOR EMBANKMENT AREAS OR WHERE TRENCH CONDITIONS DO NOT EXIST, AN INDUCED TRENCH SOIL EMBANKMENT SHALL BE CONSTRUCTED SEE D-PB-3.
  - (C) FOR TRENCHES WITH IN SITU SOIL WALLS, THE SOIL SHALL BE AT LEAST AS FIRM AS THE MAJORITY OF THE SUBGRADE AS DETERMINED BY THE ENGINEER. SOIL NOT MEETING THIS REQUIREMENT SHALL BE REMOVED AND REPLACED.
  - (D) FOR ADDITIONAL INSTALLATION INFO SEE SECTION 27 "CONCRETE CULVERTS" OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES AND ASTM C-1479-10.
  - (E) ONLY AS MUCH TRENCH AS CAN BE SAFELY MAINTAINED SHALL BE OPENED. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO THE MINIMUM COVER DEPTH 12" ABOVE THE PIPE AS SOON AS PRACTICABLE, BUT NOT LATER THAN THE END OF EACH WORKING DAY IN ACCORDANCE WITH THE COMPACTED REQUIREMENTS.
  - (F) JOINTS BETWEEN PIPES REQUIRE A RUBBER GASKET MEETING ASTM C443. AT CONNECTIONS TO STRUCTURES USE NON-SHRINK GROUT OR RUBBER GASKET PER C923 OR C1478. WHERE PIPE WITH BELLS ARE INSTALLED, BELL HOLES SHALL BE EXCAVATED IN BEDDING TO SUCH DIMENSIONS THAT THE ENTIRE LENGTH OF THE BARREL OF THE PIPE WILL BE SUPPORTED BY THE BEDDING WHEN PROPERLY INSTALLED AS SHOWN IN BELL HOLE DETAIL.
  - (G) WHERE THE TRENCH FOUNDATION IS FOUND UNACCEPTABLE OR LOCATION WHERE THE WATER TABLE IS FOUND HIGH:
    - (1) IMPROVED FOUNDATION OR EXCAVATABLE FLOWABLE FILL (EFF) MAY BE USED AT ENGINEER'S INSTRUCTION AS SHOWN ON THIS SHEET. AS NEEDED THE COST OF REMOVAL OF UNSATISFACTORY BEDDING MATERIAL AND REPLACEMENT WITH SATISFACTORY MATERIAL, INCLUDING GEOTEXTILE, WILL BE PAID SEPARATELY.
    - (2) FIELD ENGINEER SHALL REVIEW SITE CONDITIONS TO CONFIRM TYPICAL BEDDING AS SHOWN IS ADEQUATE TO PROVIDE STRUCTURAL SUPPORT OR FOUNDATION IMPROVEMENT IS REQUIRED.
  - (H) FOR MULTIPLE PIPES MINIMUM SPACING BETWEEN PIPES IS:
    - 36" PIPES AND SMALLER: EQUAL TO THE OUTSIDE DIAMETER OF THE LARGEST PIPE.
    - PIPES LARGER THAN 36": EQUAL TO HALF THE OUTSIDE DIAMETER OF THE LARGEST PIPE.
  - (I) FOR MINIMUM COVER DEPTHS FOR CONSTRUCTION LOADS SEE D-PB-3.
  - (J) CLASS "B" BEDDING MAY NOT BE REQUIRED UNDER SIDE DRAINS FOR PRIVATE DRIVES, FIELD ENTRANCES, PIPES OUTSIDE THE SHOULDER LIMITS OF INTERCHANGE RAMP, OR PIPES OUTSIDE NORMAL SLOPE LINES. BEDDING TYPE AS PER STANDARD SPECIFICATION 204.10.B.
  - (K) ARCH AND OVAL SHAPED PIPE CULVERTS SHALL BE INSTALLED THE SAME AS CIRCULAR WITH O.D. EQUAL TO THE WIDEST HORIZONTAL DIMENSION ON THE PIPE. TO ESTIMATE BEDDING MATERIAL FOR THESE PIPES WITH INTERNAL WIDTH THE SAME AS DIAMETER IN THE TABLE, MULTIPLY BEDDING QUANTITY BY 0.5 FOR THE SHOWN MINIMUM TRENCH DIMENSIONS.
- BEDDING AND BACKFILL REQUIREMENTS:**
- (L) CLASS "B" BEDDING MATERIAL MEETING THE REQUIREMENTS OF CONSTRUCTION SPECIFICATION SUBSECTION 204.04 SHALL BE PLACED IN LIFTS, NOT TO EXCEED 6 INCHES, TO THE PIPE SPRINGLINE. A MINIMUM COMPACTION LEVEL OF 90% OF THE STANDARD PROCTOR DENSITY PER AASHTO T99 SHALL BE ACHIEVED BY USE OF VIBRATORY PLATE.
  - (M) UNCLASSIFIED BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING A 8 INCH LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY AND SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE. UNCLASSIFIED BACKFILL TO THE LIMIT OF PIPE BACKFILL LINE SHALL BE COMPACTED IN ACCORDANCE TO STANDARD SPECIFICATION 204.11. HYDRO-HAMMER TYPE OF COMPACTORS MAY BE USED AROUND THE PIPE HOWEVER THEY SHALL NOT BE USED DIRECTLY OVER THE PIPE TO PREVENT ANY DAMAGE. ALL COMPACTION EQUIPMENT USED SHALL BE APPROVED BY THE ENGINEER.
  - (N) PLACE 6 INCHES MINIMUM OF CLASS "B" BEDDING MATERIAL, ALONG WITH SUFFICIENT ADDITIONAL CLASS "B" BEDDING MATERIAL ACCURATELY SHAPED AS SHOWN IN HAUNCH AREA DETAIL.
- END TREATMENTS:**
- (1) ALL CROSS DRAINS (PERPENDICULAR) PLACED UNDER A MAINLINE ROADWAY REQUIRE TYPE U ENDWALLS CONFORMING TO THE ROADWAY FILL SLOPE AS SHOWN ON STANDARD DRAWINGS D-PE-15A THROUGH D-PE-48A FOR END WALL GEOMETRY AND D-PE-99 FOR GRATE DETAILS. ALL CULVERT ENDWALLS LOCATED WITHIN THE CLEAR ZONE (S-CZ-1) REQUIRE A SAFETY GRATE (18" OR 24" PIPE ENDWALLS MAY OMIT THE STEEL GRATE). ALL CROSS DRAIN CULVERTS LARGER THAN 48" MUST BE PROTECTED BY A GUARDRAIL OR ENDWALL OR MUST BE PLACED OUTSIDE THE CLEAR ZONE. CROSS DRAIN ENDWALLS PLACED OUTSIDE THE CLEAR ZONE MAY USE TYPE A (D-PE-1), TYPE B (D-PE-9 THRU 9F), OR STRAIGHT HEADWALL (D-PE-4) IN LIEU OF TYPE U OR IF THE PIPE END WALL IS PROTECTED BY A GUARDRAIL.
  - (2) ALL SIDE DRAINS (PARALLEL) PLACED UNDER A SIDE ROAD, DRIVEWAY, OR FIELD ENTRANCE, ETC. THAT INTERSECT A MAINLINE ROADWAY, REQUIRE SAFETY ENDWALLS AS SHOWN ON THE D-SEW- SERIES STANDARD DRAWINGS WITH SAFETY GRATE (D-SEW-1A) WITH A MAXIMUM 6:1 TAPER IF THE CULVERT ENDWALLS ARE LOCATED INSIDE THE CLEAR ZONE (S-CZ-1).
  - (3) ALL MEDIAN CROSSOVER SIDE DRAINS (LONGITUDINAL) PLACED UNDER MEDIAN OPENINGS REQUIRE SAFETY ENDWALLS AS SHOWN ON D-SEW-12D STANDARD DRAWING WITH SAFETY GRATE (D-SEW-1A) WITH MAXIMUM 12:1 TAPER IF THE CULVERT ENDWALLS ARE LOCATED INSIDE THE CLEAR ZONE (S-CZ-1).
- INSPECTION REQUIREMENTS:**
- (P) ALL PIPES SHALL UNDERGO INSPECTION ACCORDING TO SECTION 607.09 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR PER SECTION 27 OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES OR PER ASTM C1840.
- PAYMENT:**
- (Q) EXCAVATION FOR PIPE WILL NOT BE MEASURED AND PAID FOR DIRECTLY AND ANY SOIL NOT MEETING REQUIREMENT FOR TRENCHES SHALL BE REMOVED AND REPLACED. ALL COST OF THIS WORK WILL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE TABLE B FOR PIPE CULVERT ITEM NUMBERS. PAYMENT FOR CLASS "B" BEDDING MATERIAL, UNCLASSIFIED BACKFILL TO THE LIMIT LINE, AND/OR IF REQUIRED EXCAVATABLE FLOWABLE FILL AND BEDDING MATERIAL WILL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. GEOTEXTILE TYPE III TO BE USED ONLY IF IMPROVED FOUNDATION IS REQUIRED, AND WILL BE PAID UNDER ITEM NO.

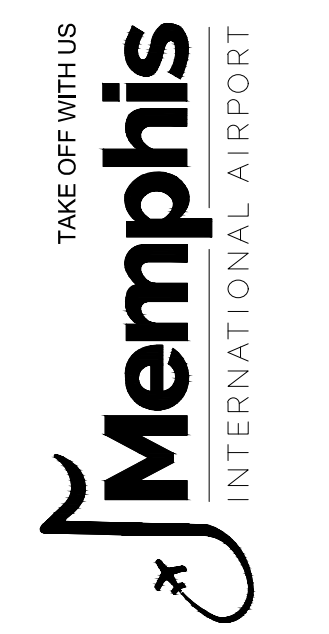
- REV. 7-12-07: REVISED GENERAL NOTE (I)
- REV. 6-1-09: REVISED GENERAL NOTE (I) AND TITLE NAME. ADDED GENERAL NOTE (I)
- REV. 2-1-12: REVISED DRAWING NAME ADDED EFF DETAIL. REVISED GENERAL NOTES AND TABLE. ADDED MINIMUM COVER TABLE.
- REV. 8-21-12: REVISED GENERAL NOTES. CHANGED BACKFILL MATERIAL.
- REV. 1-2-13: REVISED TRENCH DETAILS REVISED BEDDING TABLE.
- REV. 3-16-17: CLARIFIED PAYMENT ITEM NO. IN TABLE B.
- REV. 08-28-19: REVISED DETAIL FOR STANDARD TRENCH INSTALLATION, TABLE A AND GENERAL NOTES. REDREW SHEET.
- REV. 11-30-20: REVISED DETAIL FOR STANDARD TRENCH INSTALLATION, TABLE B AND GENERAL NOTES. ADDED BELL HOLE DETAIL.
- REV. 03-04-21: REVISED TABLE B.
- REV. 03-01-23: REVISED GENERAL NOTE (G)

APPROVED BY FHWA  
(ALL OTHERS APPROVED BY TDOT)



STANDARD DETAILS  
FOR CONCRETE  
PIPE  
INSTALLATION

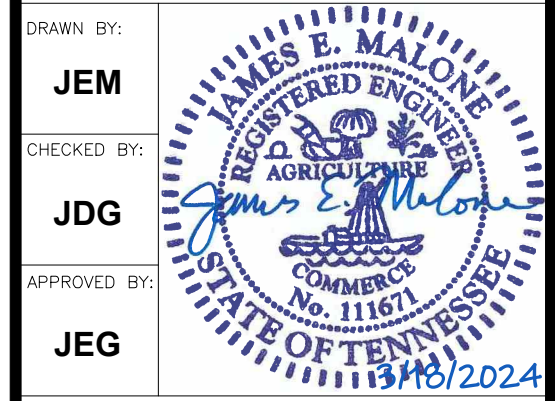
D-PB-1



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JOB NO. 33276-02



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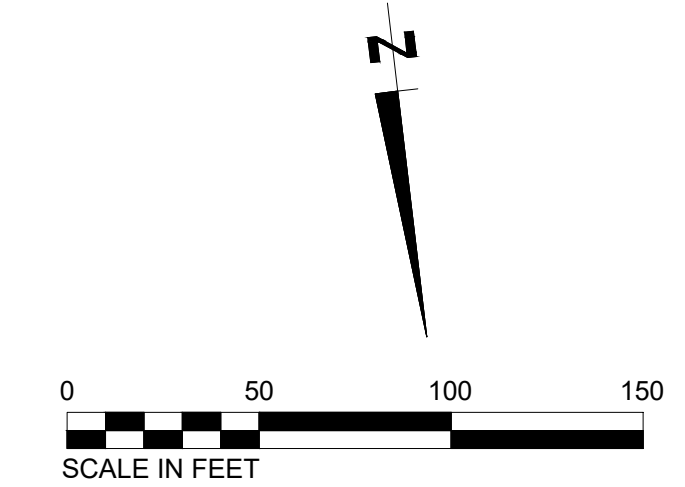
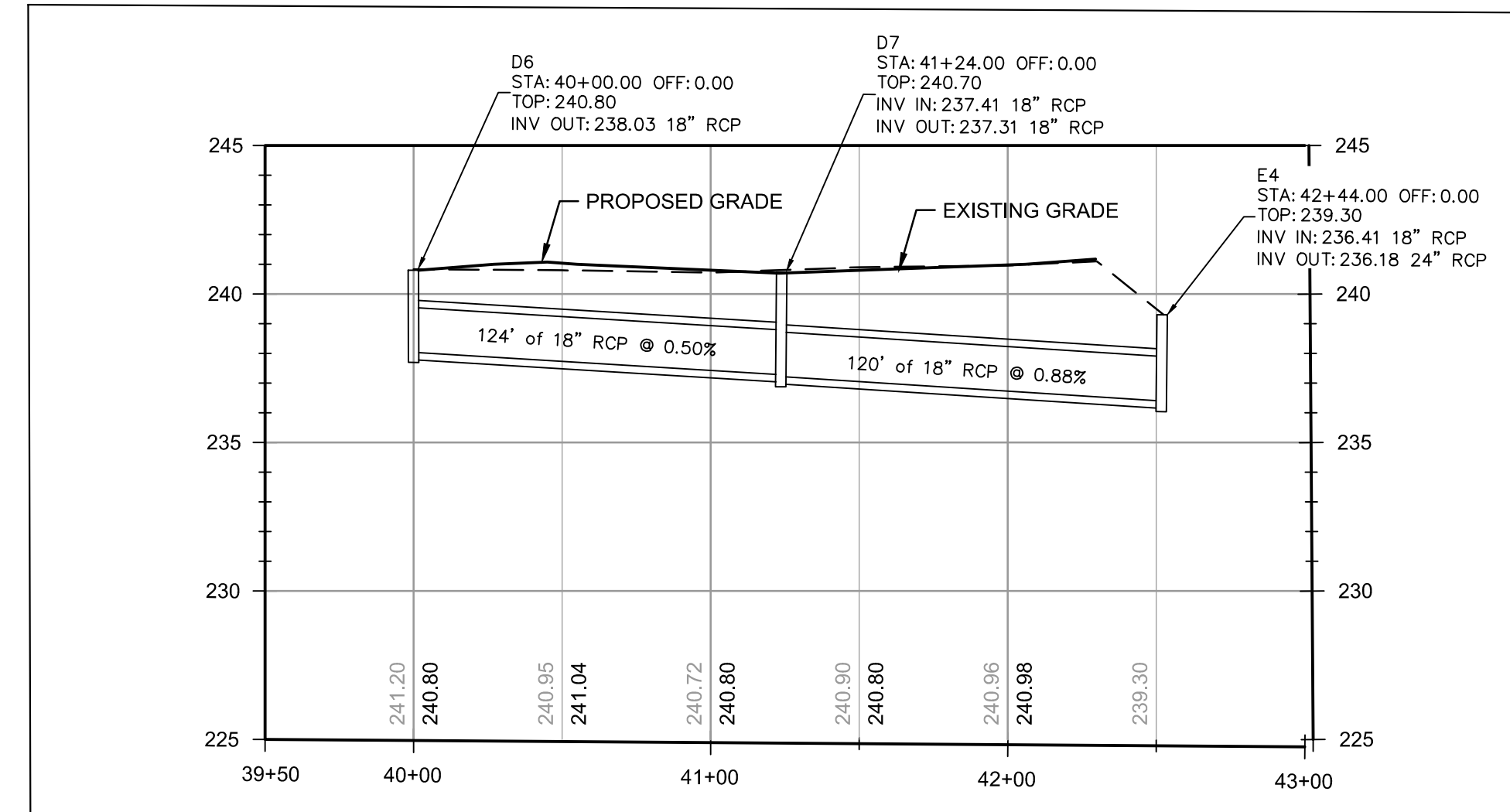
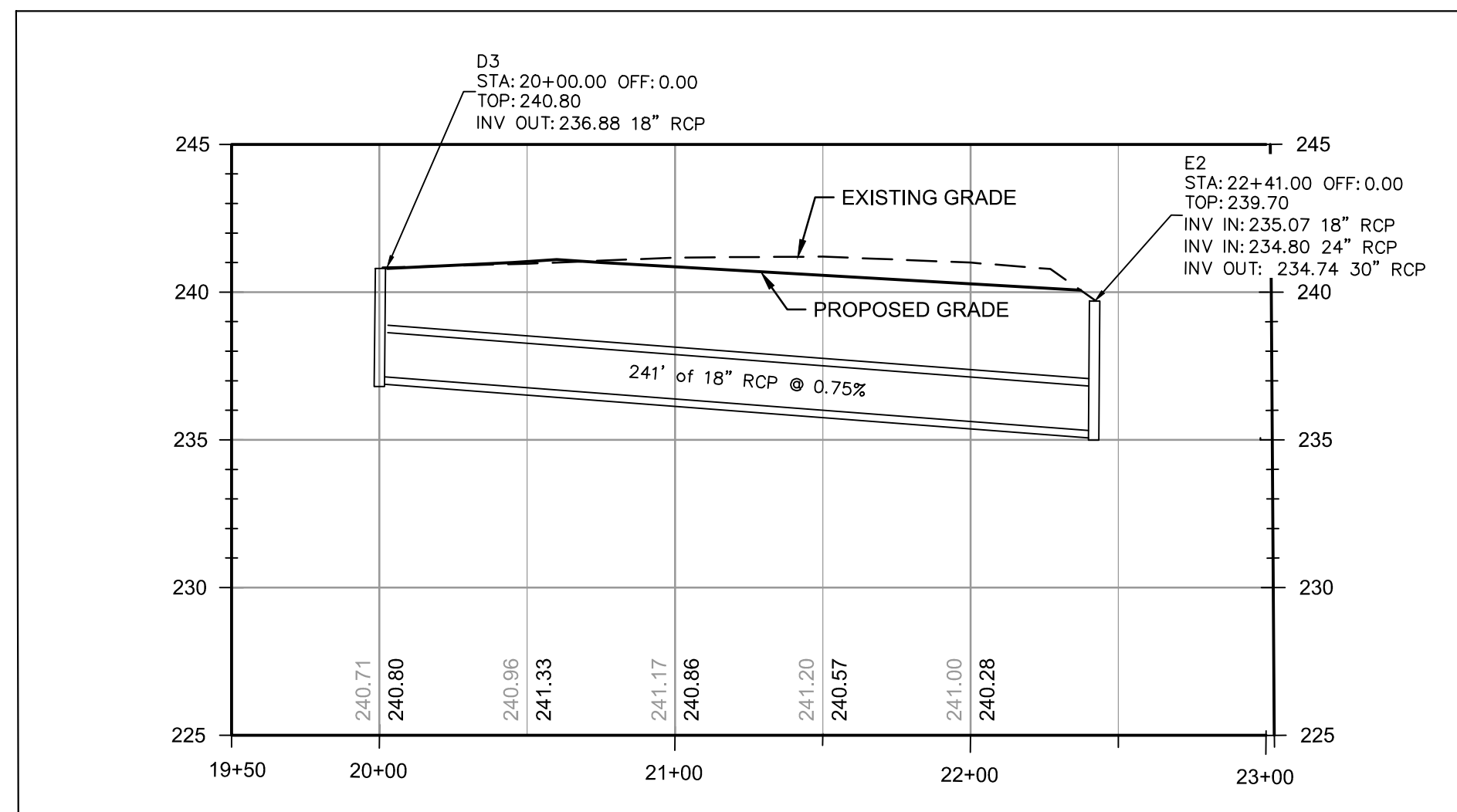
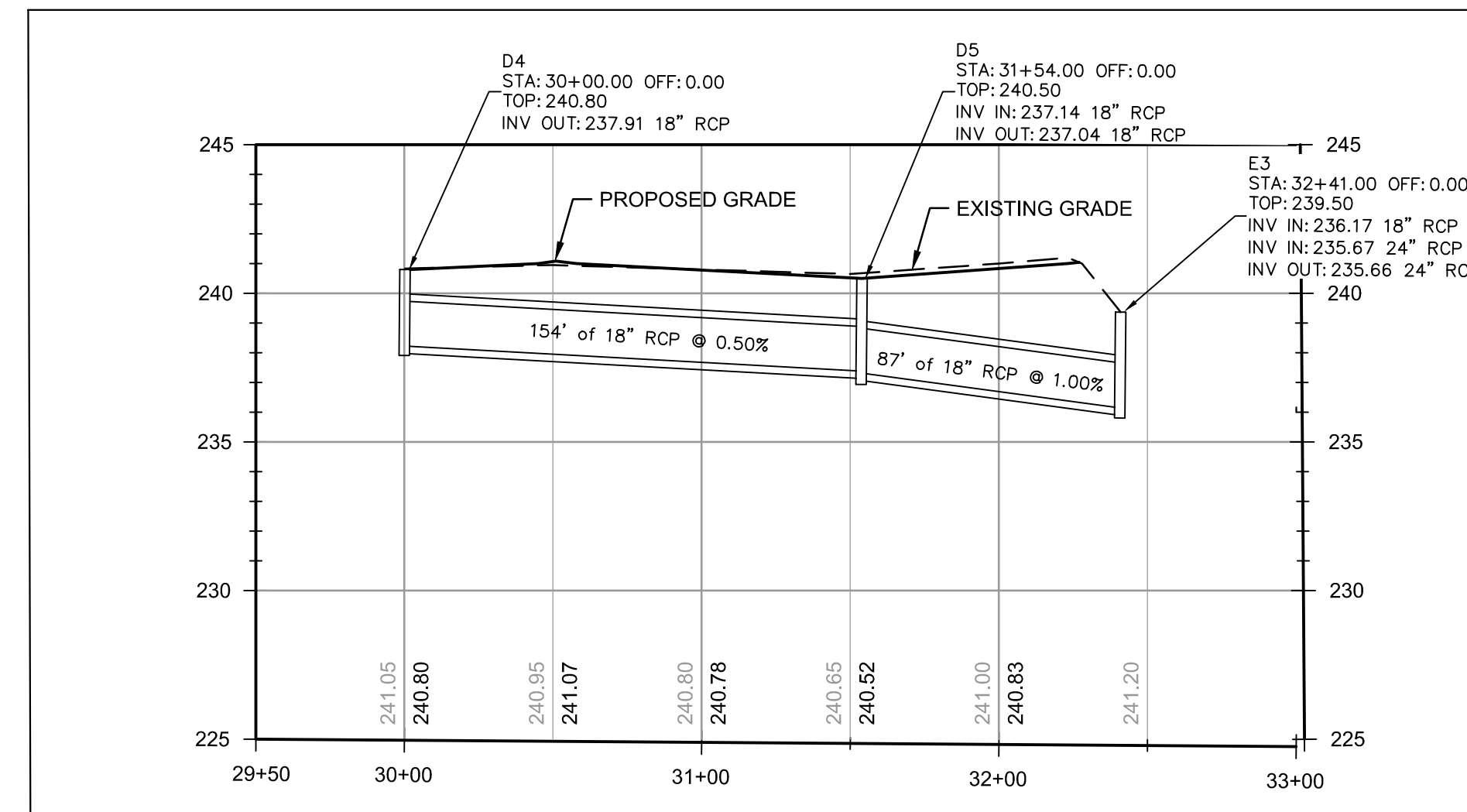
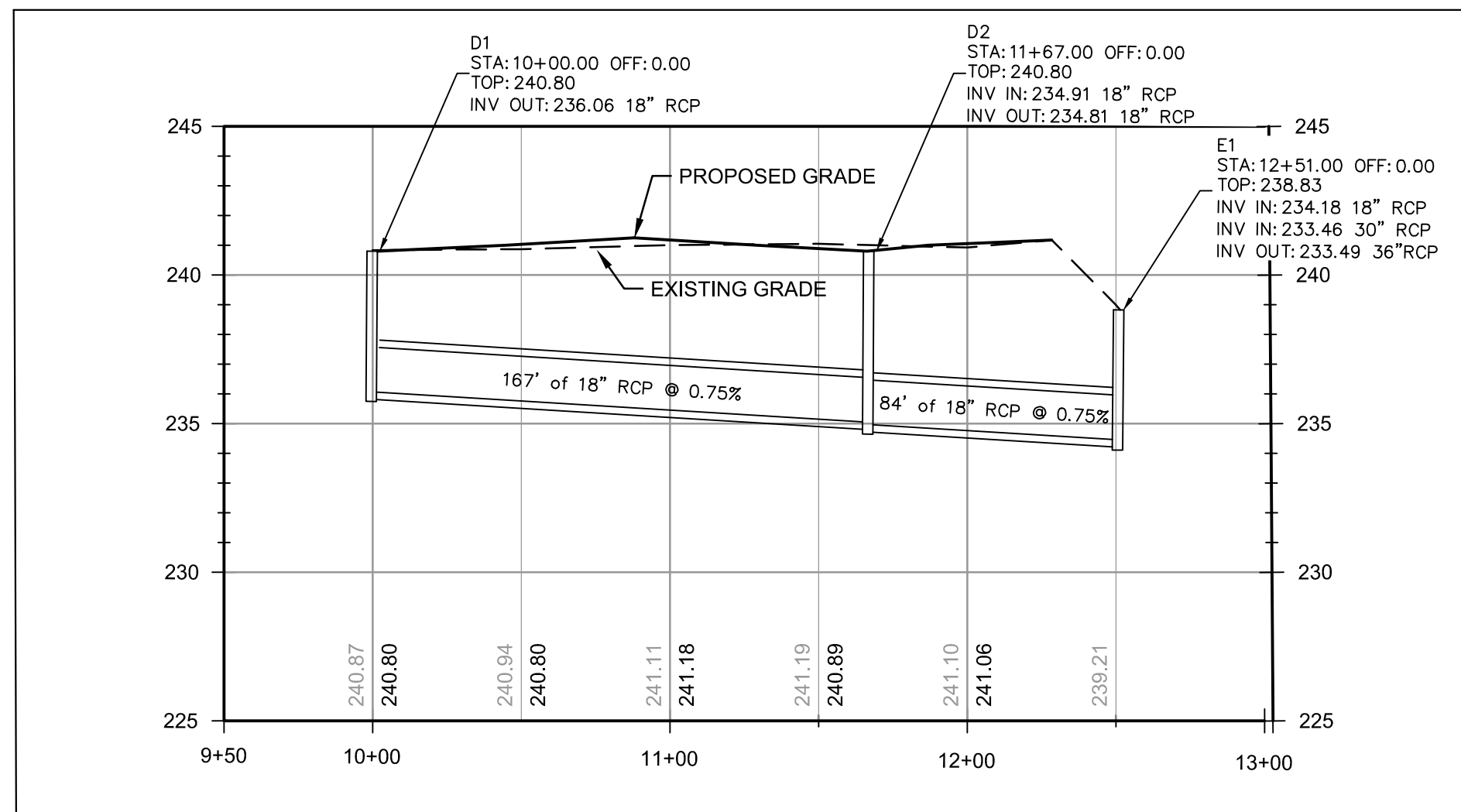
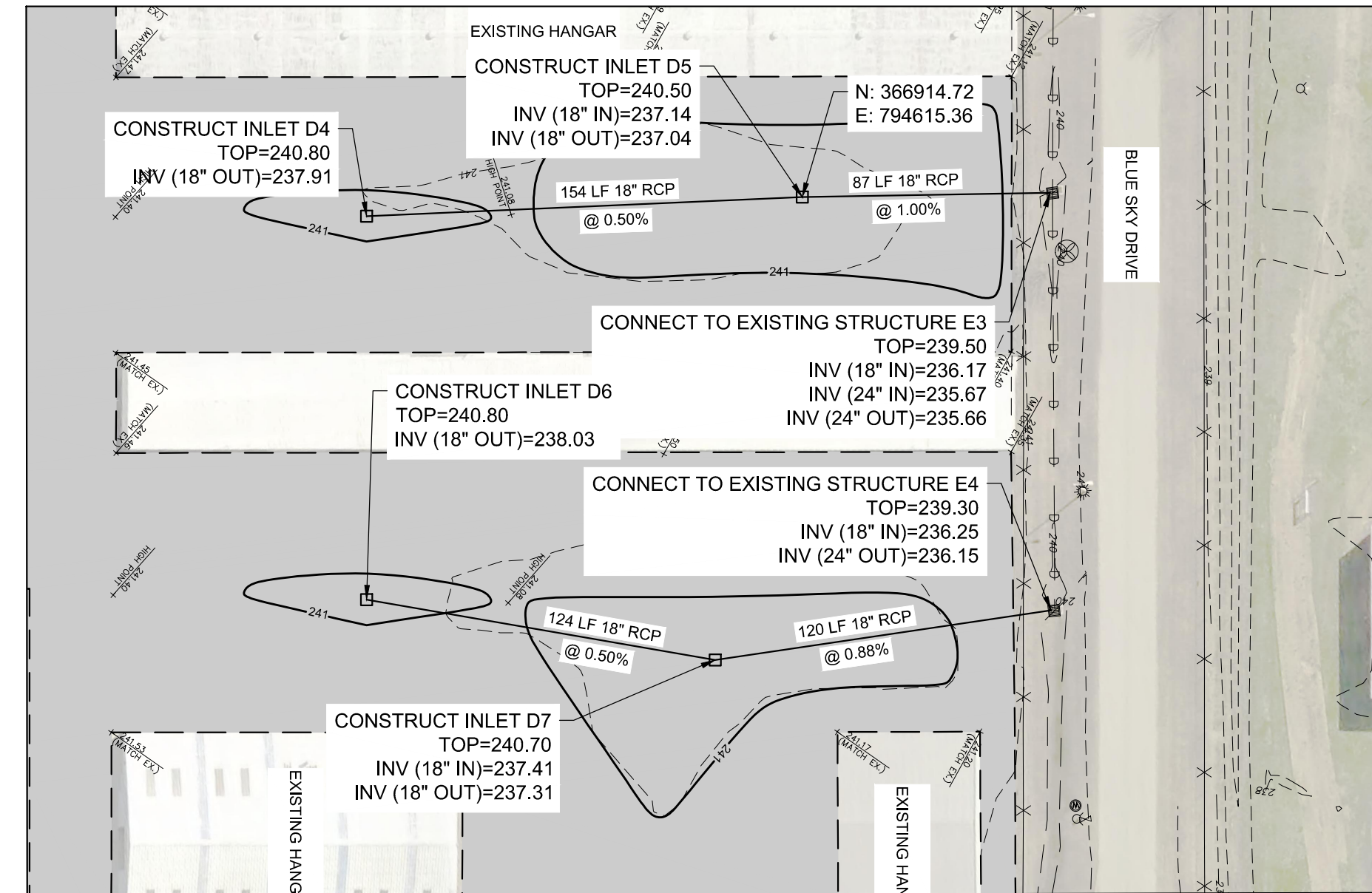
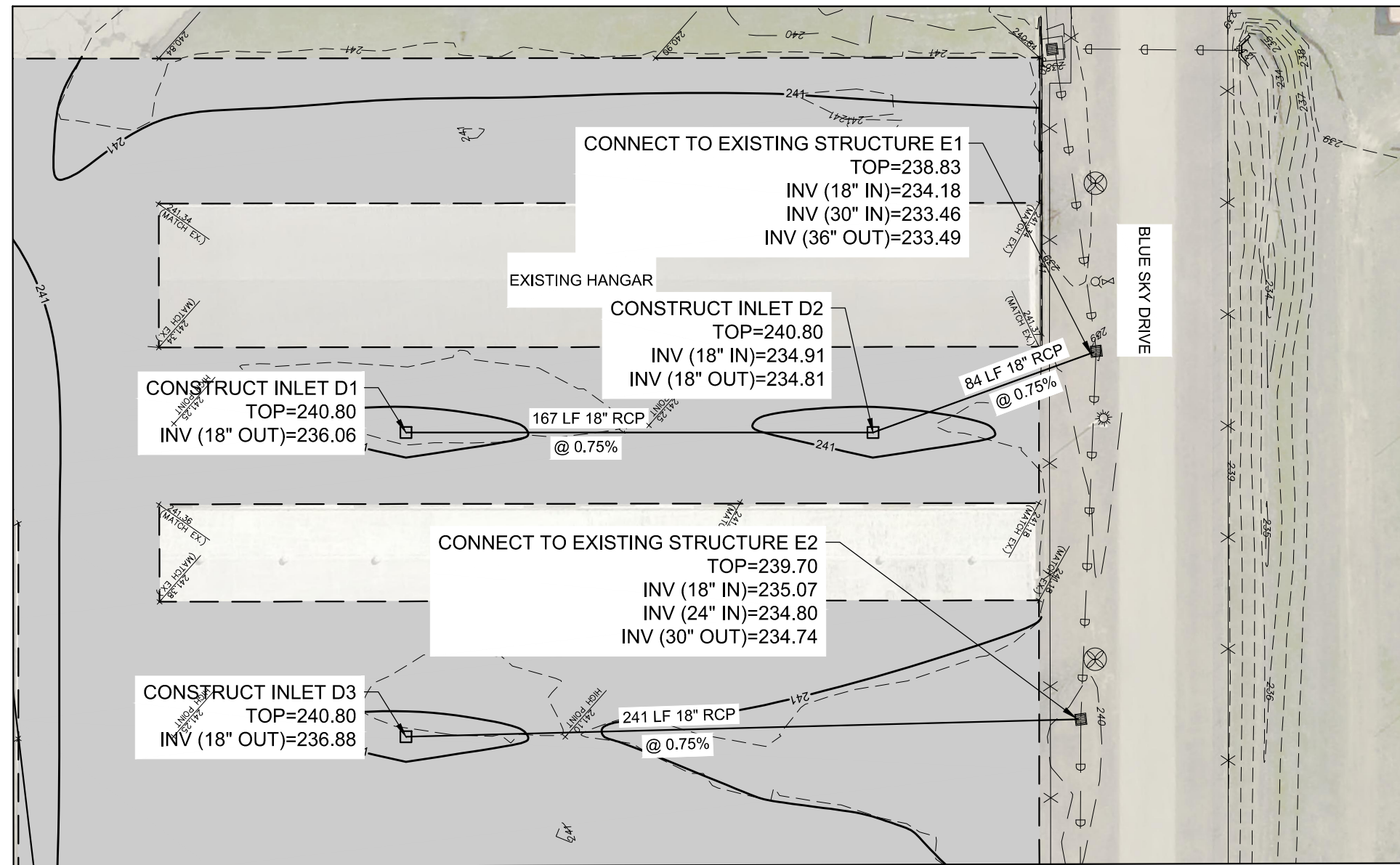
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	3/11/24	ISSUED FOR BID

MSCAA PROJ. NO. 18-1420-01

PROJECT: CHARLES BAKER  
PAVEMENT  
RECONSTRUCTION

SHEET TITLE: DETAILS

DWG. FILE NAME	3327602-93C-DT-03.DWG
DATE	03/11/2024
SCALE	N/A
SHEET NO.	C-DT-03
SHEET	45 OF 47



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DRAWN BY: JEM

CHECKED BY: JDG

APPROVED BY: JEG

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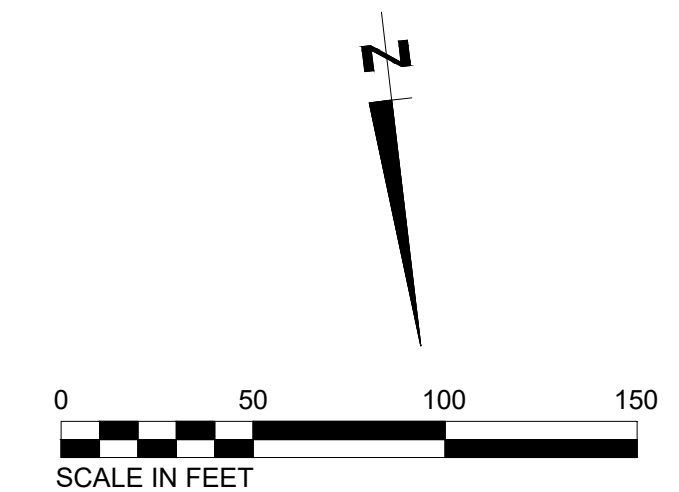
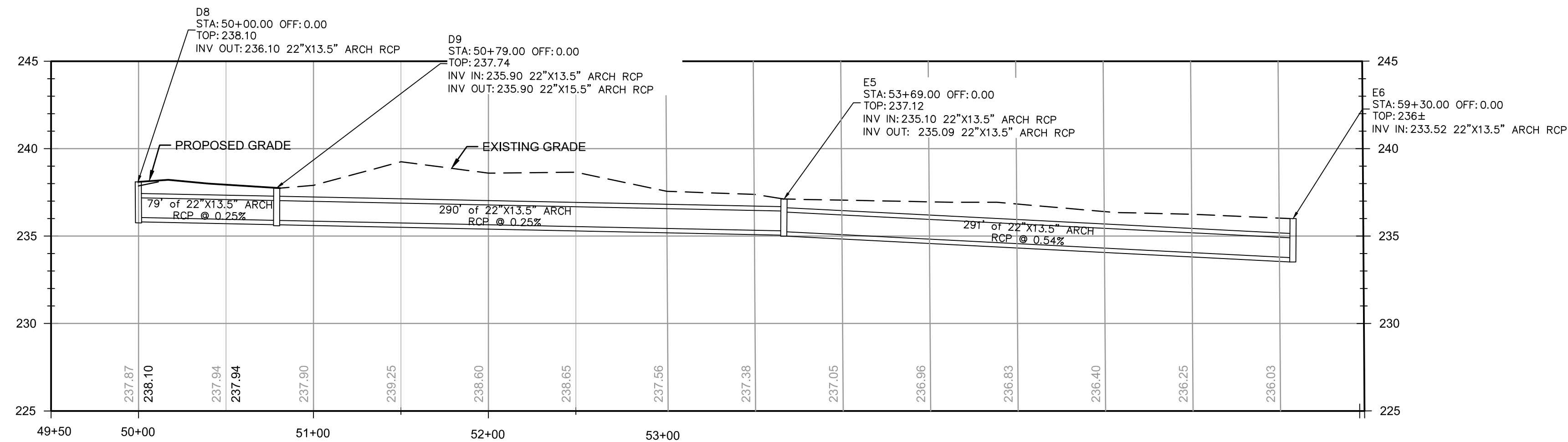
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SHEET TITLE: PLAN & PROFILE

DWG. FILE NAME: 3327602-94C-PP-01.DWG

DATE: 03/11/2024 SHEET NO. C-PP-01

SCALE: 1"=50' SHEET 46 OF 47



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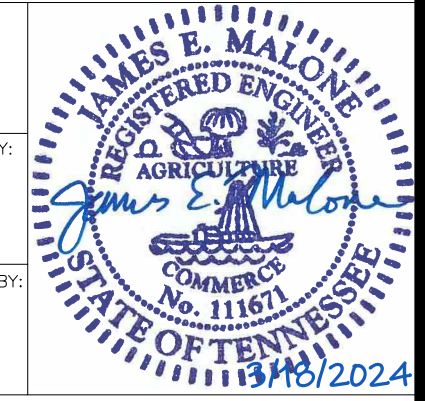
**JEM**

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**JDG**

APPROVED BY:

**JEG**



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PROJECT: **CHARLES BAKER PAVEMENT RECONSTRUCTION**

SHEET TITLE: **PLAN & PROFILE**