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Addendum No. 2

5-8-24

Mississippi Valley State University
Rice-Totten Stadium Turf Replacement
Itta Bena, MS

TO: ALL BIDDERS OF RECORD

This addendum consists of the followings changes to the bid documents:

- Sheets C100-C108 will all need to be replaced as part of the addendum. Each one was modified in some way, so they all need to be replaced. The title sheet and sheet C109 were the only two that did not have changes (See attachments)

- The bid proposal form will need to be replaced because of the changes to the add alternates. (See attached revised Bid Proposal Form)

- Specification *03900 - ShockPad, Drainage Base, Geotextile Fabric, Flat Panel Drain and Recycled Plastic Nailer Board* has been modified to remove the shock pad info in the spec. The new one is *03900 - Drainage Base, Geotextile Fabric, Flat Panel Drain and Recycled Plastic Nailer Board* (See attached)

RFIs (Questions and Answers)

1. The soils report describes removing unsuitable soil and replacing with fill after proof rolling. How do I quantify the amount required? Could a unit price per cubic yard be added to the bid form?
   Answer: Please refer to the Soils Report to see specific boring location(s) identified with heavy clay within the top 3' that will need possible undercutting/suitable backfill. Estimated quantities determination will be the responsibility of the bidder. This project will be bid as a Lump Sum Price, so estimated cost should be included as a part of the Lump Sum Bid.
2. Also the soils report states possibly lime treatment for 6% at 12". Is this to be priced into the job?
   Answer: No. Just excavation and select backfill.
3. What is the anticipated start date?
   Answer: Approximately 1 month from the bid date (June 17th).

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4. Which Geotextile fabric is to be used? C107 states 140N, C109 state impermeable and the Soils report refers to C180N.
   Answer: The 140N geotextile fabric will be used for the project.
5. Plans refer to excavated soils to be removed from the site or stockpiled at the owners chosen location. To price for offhaul trucking, the true location needs to be determined or soils to be removed offsite completely.
   Answer: The location for stockpiled soil will be on an adjacent open area approximately 100 yards away from the Football Field.
6. C101 states a silt fence and DI protection is required and the details on C108 shows the details but no true guidelines are determined for the limits. DI protection is easy to follow. I assume the silt fence would be inside the track if only the base bid is performed and outside if Alternate 3 is chosen.
   Answer: Silt fencing will be used primarily inside the track where the new field construction will be done.
7. Can a substitution for the shock pad be presented? Same material and makeup provided by Regupol.
   Answer: Shock pad installation has been excluded from the project. See revised Specification 03900 in Addendum #2.
8. Is the field currently irrigated?
   Answer: The field is currently irrigated. The contractor will be responsible for removing the existing irrigation lines per Estimated Summary of Quantities listed on Sheet C100. Line item 2 on the reference table states “Removal of Structures and Obstructions (all types)(all depths).

NOTE:

THIS ESTIMATE SUMMARY OF QUANTITIES CHART IS FOR INFORMATION PURPOSES ONLY AND DOES NOT IMPLY THE CONTENTS LISTED REPRESENT ALL ITEMS OF WORK REQUIRED TO COMPLETE THE PROJECT. THE PROJECT WILL BE BIDDED AS A LUMP SUM CONTRACT.

ESTIMATED SUMMARY OF QUANTITIES

Item No.	Description	Quantity	Units
1	Mobilization	1	LS
2	Removal of Structures and Obstructions(all types)(all depths)	1	LS
3	Stripping and removal/dispose of topsoil	1	LS
4	Site Preparation & Compaction of Subgrade	1	LS
5	Erosion & Sedimentation Control	1	LS
6	Video inspection and heavy cleaning of existing 12" Storm Pipes	550	LF
7	Unclassified Excavation (LVM)	4000	CY
8	Undercut Excavation (for concrete perimeter curb)	100	CY
9	Reinforced Concrete Perimeter Curb	40	CY
10	Reinforced Concrete Pavement (5") (B)	375	CY
11	#8 Stone Aggregate per Plans (Compacted-in-Place)	865	CY
12	#47 Stone Aggregate per Plans (Compacted-in-Place) (A)	40	CY
13	#57 Stone Aggregate per Plans (Compacted-in-Place)	3000	CY
14	12" Perforated HDPE Pipe (Complete-in-Place)	1200	LF
15	1"X12" ADS AdvanEdge Flat Panel Drain	3200	LF
16	12" HDPE Pipe (Complete-in-Place)	20	LF
17	24" Nyloplast Catch Basins (Complete-in-Place)	6	EA
18	3' x 3' Precast Junction Box (Complete-in-Place)	2	EA
19	Football Goal Posts (Per Technical Specifications) (Complete-in-Place)	2	EA
20	Synthetic Turf Field Installation (Complete-in-Place) provide and install nailers to concrete curb, provide and install new synthetic turf/infill over prepared base, install new school logos & all required line markings per Construction Plans and final cleaning of surface and site.	1	LS

(A) Approximately 40 C.Y. of reinforced concrete is for add alternate #1. See sheet C104 for location of Add Alternate.

(B) Approximately 175 C.Y. of reinforced concrete is for add alternate #2 and approximately 200 C.Y. of reinforced concrete is for add alternate #3. See sheet C104 for locations for each Add Alternate.

PROJECT GENERAL NOTES:

1. SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE CIVIL SITE PLANS, PROJECT SPECIFICATIONS, AND WITH ALL CURRENT APPLICABLE CODES.
3. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO UNDERGROUND UTILITY CONNECTION POINTS, RECEIVING PIPE SIZES, INVERTS, AND PIPE MATERIALS. ALL DISCREPANCIES WITH THE PLANS OR EXISTING CONDITIONS SHALL BE DISCUSSED WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
4. THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. OTHER EXISTING UTILITIES MAY BE PRESENT. INFORMATION HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES AT THE TIME OF SURVEY BUT IS NOT REPRESENTED AS BEING COMPLETE AND ACCURATE. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES AND UNDERGROUND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISSISSIPPI ONE-CALL (811) FOR EXISTING UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. DAMAGE TO EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONALCOST TO THE DEVELOPER.
6. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. IF EXISTING UTILITIES ARE FOUND TO BE IN CONFLICT WITH PROPOSED SITE IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, OWNER, AND THE UTILITY COMPANY.
7. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF THE APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.
10. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEAN WORK SITE AND REMOVAL OF CONSTRUCTION DEBRIS AND MATERIALS AS REQUIRED.
11. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, PARTS, AND PRODUCTS ON THIS PROJECT. ALL MATERIALS SHALL BE STORED SO AS TO ENSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK.
12. ALL STAGING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE ONSITE. NO VEHICLES WILL BE ALLOWED TO PARK WITHIN NON-DESIGNATED CONSTRUCTION AREAS.
13. THE CONTRACTOR'S LAYDOWN & STORAGE AREA WILL LIMITED TO THE AREA WITHIN THE SITE CONSTRUCTION LIMITS OR AN AREA DESIGNATED BY THE OWNER. COORDINATE EXACT LOCATIONS WITH THE OWNER.
14. ALL SALVAGEABLE ITEMS REMOVED AND NOT USED REMAIN THE PROPERTY OF THE OWNER. ITEMS DETERMINED TO BE SALVAGEABLE SHALL BE NOTED/DETERMINED BY THE OWNER PRIOR TO CONSTRUCTION.
15. MATERIALS, EQUIPMENT, PRODUCTS, AND METHODS OTHER THAN THOSE INDICATED IN THE DRAWINGS SHALL NOT BE CONSIDERED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE AND/OR THE ARCHITECT/ENGINEER.
16. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND STATE SAFETY ORDERS AT ALL TIMES.
17. ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO PAVEMENT, SHOULDERS, DITCHES, HEADWALLS, ENDWALLS, CULVERT PIPES, FENCES, CURB AND GUTTER, UTILITIES, DRIVEWAYS, LIGHT POLES, SIGNS, ETC. SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO CONSTRUCTION, OR AS SHOWN ON THE DRAWINGS. SIGNS AND POSTS THAT ARE DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL LOCATIONS DAILY, AND MAINTAINED THROUGHOUT THE PROJECT.
18. THE CONTRACTOR SHALL RE-ESTABLISH ALL CONTROL POINTS AND TEMPORARY BENCHMARKS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
19. ONSITE EXTERIOR CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI (28-DAYS) WITH 5% TO 7% AIR ENTRAINMENT, UNLESS OTHERWISE NOTED.
20. ALL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, FLUSH ALONG ENTIRE COMMON EDGE.
21. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS TO ALL UTILITY SPLICE BOXES, JUNCTION BOXES, METER BOXES, VALVE BOXES, ELECTRICAL SPLICE BOXES, MANHOLES, CLEANOUTS, AND OTHER ITEMS TO MATCH FINISHED GRADE.
22. ALL RADII INDICATED SHALL HAVE CONTINUOUS/SMOOTH TRANSITIONS WITHOUT ABRUPT CHANGES, BENDS, OR FACETED EDGES. ALL RADIAL DIMENSIONS ARE TO THE EDGE OF CONCRETE UNLESS OTHERWISE NOTED.
23. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES FOUND SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND BE RESOLVED BEFORE PROCEEDING WITH ANY WORK. DIMENSIONS TAKE PRECEDENCE OVER SCALE.
24. ALL UNPAVED SURFACES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE GRADED TO DRAIN, TOPSOILED, SEEDED, MULCHED, AND FERTILIZED.
25. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL CONSTRUCTION SURVEYING REQUIRED.
26. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL GEOTECHNICAL ENGINEERING REQUIRED.
27. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL SOIL AND CONCRETE TESTING ENGINEERING REQUIRED. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER AND PROFESSIONAL.
28. SAW CUTTING OF EXISTING CONCRETE AND ASPHALT PAVING SHALL COMPLY WITH OSHA. THE CONTRACTOR SHALL KEEP DUST TO A MINIMUM AND SHALL BE RESPONSIBLE FOR THE DAMAGE TO AND REPLACEMENT OF ADJACENT MATERIALS AND FINISHES.
29. THE CONTRACTOR SHALL INSTALL SIGNAGE IN AREAS THAT ARE RESTRICTED TO THE PUBLIC DURING CONSTRUCTION.
30. THE CONTRACTOR SHALL PROVIDE LIGHTING THROUGHOUT THE CONSTRUCTION AREA IF WORK IS TO BE PERFORMED AFTER DARK. IF THE EXISTING STADIUM LIGHTS ARE ACCEPTABLE FOR ILLUMINATING THE FOOTBALL FIELD, THE CONTRACTOR SHALL COORDINATE WORK HOURS AND LIGHTING USAGE WITH THE OWNER. OTHER OWNER UTILITIES THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE MAY BE PROVIDED BY OWNER OR MAY REQUIRE A UTILITY AGREEMENT. DISCUSSIONS AND A FINAL DETERMINATION SHALL BE MADE PRIOR TO ANY SUCH USE OF UTILITIES.

GRADING & DRAINAGE NOTES:

1. THE SITE CONTRACTOR SHALL FOLLOW THE EARTHWORK STANDARDS PROVIDED IN THE PROJECT SPECIFICATIONS, AND THE PROJECT GEOTECHNICAL REPORT AT ALL TIMES DURING CONSTRUCTION.THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TEST RESULTS BY A GEOTECHNICAL ENGINEER TO THE ARCHITECT/ENGINEER FOR VERIFICATION OF PROPER COMPACTION.
2. ALL AREAS, ESPECIALLY THE SUBGRADE BELOW THE FIELD, SHALL BE GRADED TO ELIMINATE LOCALIZED LOW SPOTS AND DEPRESSIONS AND TO PROMOTE POSITIVE DRAINAGE AS SHOWN ON THE PLANS. POSITIVE DRAINAGE IS CRITICAL TO THE PROJECT.
3. TEMPORARY DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR TO RELIEVE AREAS THAT EXPERIENCE PONDING OR COULD CAUSE DAMAGE TO LIFE, SAFETY, AND PROPERTY.
4. ALL FILL MATERIAL SHALL BE VOID OF DEBRIS AND PLACED IN UNIFORM LIFTS (6" MAXIMUM) OR AS SPECIFIED BY CONSTRUCTION PLANS AND/OR SITE-SPECIFIC GEOTECHNICAL REPORT.
5. COMPACT SUBGRADE TO 95% OF STANDARD PROCTOR THEORETICAL MAXIMUM DRY DENSITY (ASTM D-698).
6. COMPACTION SHALL BE PERFORMED BY HEAVY COMPACTION EQUIPMENT AS SPECIFIED BY THE TECHNICAL SPECIFICATIONS AND/OR SITE-SPECIFIC GEOTECHNICAL REPORT.
7. SITE PREPARATION, INCLUDING FILL PLACEMENT AND COMPACTION, SHOULD BE OBSERVED BY A QUALIFIED SOILS TECHNICIAN WORKING UNDER THE DIRECTION OF THE CONTRACTOR'S GEOTECHNICAL ENGINEER. DURING FILL PLACEMENT, A SUFFICIENT AMOUNT OF IN-PLACE DENSITY TESTS SHOULD BE CONDUCTED TO CONFIRM THAT COMPACTION AND FILL MOISTURE IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE GEOTECHNICAL REPORT.
8. WHEN MATERIAL UNSUITABLE FOR FOUNDATION, SUBGRADES, OR OTHER PURPOSES OCCURS WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL AND BACKFILL WITH APPROVED SUITABLE MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING IS TO BE DETERMINED BY THE ARCHITECT/ENGINEERING CONSULTANT.
9. ALL OBJECTIONABLE, HAZARDOUS, AND/OR DELETERIOUS MATERIAL ENCOUNTERED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A STATE-APPROVED FACILITY MEETING THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
10. EXCAVATED SOIL CAN BE STOCKPILED ONSITE PROVIDED IT IS CLEAN AND FREE FROM DEBRIS, ORGANIC MATTER, HAZARDOUS MATERIAL, AND CONTAMINATION. THE LOCATION OF THE PERMANENT STOCKPILE SHALL BE CONFIRMED WITH THE OWNER PRIOR TO EXCAVATION.
11. TOPSOIL THAT IS REMOVED FROM THE PROJECT CAN BE RE-USED TO RESTORE GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION AND/OR IN A LOCATION AS DETERMINED BY THE OWNER.
12. ALL STORM DRAINAGE IMPROVEMENTS AND FACILITIES SHALL BE INSTALLED AS SOON AS FEASIBLE IN THE CONSTRUCTION SCHEDULE.
13. UNDERGROUND STORM SEWER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROJECT SPECIFICATIONS.
14. STORM SEWER PIPING SHALL CONSIST OF N12 HIGH-DENSITY POLYETHYLENE (HDPE) PIPE WITH SMOOTH WALL INTERIOR OR APPROVED EQUAL.
15. THE CONTRACTOR SHALL INSTALL PIPES, FITTINGS, AND OTHER STORM DRAINAGE COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, PER PLAN DETAILS, AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL DE-WATERING, SHEETING, TRENCH BOXES, AND TRENCH STABILIZATION AS REQUIRED.

18\. STORM STRUCTURES SHALL CONFORM TO THE PROJECT SPECIFICATIONS. STORM SEWER PIPE BEDDING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND THE DETAILS SHOWN ON THE PLANS.

19\. ALL THERMOPLASTIC, HDPE, PE, AND NON-CONCRETE PIPE JOINTS AND CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SUPPLIED BY THE MANUFACTURER AND SHOWN ON THE PLANS. WHEN CONNECTING TO DRAINAGE STRUCTURES (PRE-CAST, CAST-IN-PLACE, CONCRETE BLOCK, BRICK, ETC.), ALL PIPES MUST BE INSTALLED IN ACCORDANCE WITH ASTM REQUIREMENTS TO ELIMINATE THE POTENTIAL FOR SHEAR FAILURE, TO BE SOIL TIGHT, AND LEAK RESISTANT (FLEXIBLE CONNECTORS).

20\. CONSTRUCTION STAKEOUT FOR THE NEW FIELD LAYOUT AND STORM SEWER INFRASTRUCTURE SHALL BE PERFORMED BY A LICENSED SURVEYOR.

21\. ALL ON-SITE STORM DRAINS AND INSTALLED PIPES WITHIN THE PROJECT LIMITS SHALL BE THOROUGHLY CLEANED AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL DISPOSE OF SEDIMENT, TRASH, AND DEBRIS IN A LAWFUL MANNER. IN ADDITION, ALL EXISTING STORM INLETS AND ADJACENT PIPES WHERE THE NEW UNDERGROUND FIELD DRAINAGE SYSTEM WILL CONNECT TO, SHALL BE CLEANED AS REQUIRED TO ENSURE PROPER DRAINAGE FOR THE NEW TURF FIELD.

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REGISTERED ARCHITECT — Akili Kelly — 4/5/24 — 5338 — STATE OF MISSISSIPPI

CALVIN L. DEAN — REGISTERED PROFESSIONAL ENGINEER — 13362 — STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

REVISIONS 1
2
3
4

SHEET TITLE

SUMMARY OF QUANTITIES
GENERAL NOTES /
GRADING & DRAINAGE
NOTES

SHEET NUMBER **OF**

Drawing No.
C100

EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE STORM WATER CONSTRUCTION GENERAL PERMIT REGULATIONS AND THE "PLANNING AND DESIGN MANUAL FOR THE CONTROL OF EROSION, SEDIMENT AND STORMWATER", PUBLISHED BY THE MDEQ, MISSISSIPPI SOIL & WATER COMMISSION AND THE USDA SOIL CONSERVATION SERVICE.

2. THE FOLLOWING MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN ON THE PROJECT PLANS AND DETAILS:

   TEMPORARY CONSTRUCTION ENTRANCE (IF APPLICABLE):

   A TEMPORARY STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED ACCORDING TO DETAILS ON SHEET C108. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE SITE PLANS OR IN A LOCATION AS DIRECTED BY THE ARCHTECT/ENGINEER.

   TEMPORARY ACCESS ROAD LEADING TO THE PERMANENT SOIL STOCKPILE (IF APPLICABLE):

   DURING THE INITIAL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE TEMPORARY ACCESS ROAD LEADING TO THE PERMANENT SOIL STOCKPILE WITH STONE OR OTHER PROPRIETARY MATERIALS (I.E. PLASTIC MATS) PRIOR TO COMMENCING EARTHWORK ACTIVITIES.

   SILT FENCES AND WATTLES:

   TEMPORARY SILT FENCES. WATTLES, AND SEDIMENT BARRIERS WILL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY STRIPPING AND/OR EXCAVATION. THEY SHALL BE INSTALLED AROUND THE LIMITS OF DISTURBANCE, TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE. TWO (2) LAYERS OF SILT FENCE SHALL BE INSTALLED AROUND SOIL STOCKPILES.

   STORM DRAIN INLET PROTECTION:

   ALL STORM DRAIN INLETS WITHIN THE PROJECT DISTURBED AREA AND IMMEDIATE VICINITY SHALL BE PROTECTED DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED ON ALL EXISTING INLETS TO REMAIN AND SHALL BE PRESERVED ON THE INLETS WITHIN THE TRACK ENVELOPE UNTIL THE NEW DRAINAGE SYSTEM IS INSTALLED.

   TOPSOILING (SOIL STOCKPILE):

   SOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFFSITE SEDIMENT DAMAGE SHALL RESULT. STABILIZE OR PROTECT STOCKPILES IN ACCORDANCE WITH THE PROJECT PLANS. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF THE FORMATION OF THE STOCKPILE, IF IT IS TO REMAIN DORMANT FOR LONGER THAN 14 DAYS. SOIL STOCKPILES SHALL NOT EXCEED 10-FEET IN HEIGHT AND SIDE SLOPES ARE NOT TO EXCEED 3H:1V.

   TEMPORARY SEEDING:

   ALL DENUDED AREAS THAT WILL REMAIN DORMANT FOR A PERIOD OF TIME GREATER THAN 14 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF VEGETATION WILL BE DEPENDENT ON THE TIME OF YEAR IT IS APPLIED.

   PERMANENT SEEDING:

   ALL DENUDED AREAS THAT ARE TO REMAIN DORMANT FOR A PERIOD OF TIME GREATER THAN 1 YEAR OR MORE ARE TO BE PERMANENTLY-SEEDED. ALL AREAS THAT HAVE REACHED FINAL GRADE ARE TO BE PERMANENTLY SEEDED AFTER FINAL GRADE IS REACHED.

   MULCHING:

   MULCH WILL BE APPLIED TO ALL SEEDED AREAS TO PROTECT THE SOIL SURFACE FROM RAINDROP IMPACT, REDUCE THE VELOCITY OF OVERLAND FLOW, AND FOSTER THE GROWTH OF VEGETATION.

   TREE PRESERVATION AND PROTECTION:

   TREES OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE SAVED. THE CONTRACTOR SHALL INSTALL HIGH-VISIBILITY PLASTIC FENCING AND/OR CHAIN LINK FENCING AROUND THE TREES TO BE SAVED. THE CONTRACTOR SHALL PROTECT THE ROOTS OF ADJACENT TREES TO BE SAVED TO THE MAXIMUM EXTENT PRACTICAL.

   DUST CONTROL:

   AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST SHALL BE STABILIZED DURING CONSTRUCTION TO MINIMIZE DUST RELEASE. METHODS INCLUDE BUT ARE NOT LIMITED TO VEGETATIVE COVER, MULCH, OR IRRIGATION.

3. EARTH FILL PROCEDURES WILL UTILIZE TEMPORARY DIVERSIONS TO ELIMINATE SURFACE RUNOFF.

4. THE CONTRACTOR SHALL PROVIDE FOR PROTECTIVE MEASURES FOR THE CONTAINMENT OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS AND LUBRICANTS, ETC.

5. THE CONTRACTOR SHALL PROVIDE FOR TRASH CONTAINERS ON SITE FOR DISPOSAL OF ALL CONSTRUCTION MATERIALS AND PREVENT TRASH FROM THE SITE FROM ENTERING INTO THE STORM DRAINAGE SYSTEM.

6. THE CONTRACTOR SHALL INSPECT ALL INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY DURING THE LENGTH OF THE CONSTRUCTION AT LEAST EVERY SEVEN (7) DAYS DURING DRY PERIODS. THE CONTRACTOR SHALL DILIGENTLY INSPECT AND REPAIR, WITHIN 24 HOURS OF A RAINFALL EVENT, ALL EROSION CONTROL MEASURES.

7. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES REQUIRED TO ASSURE THAT THE STORM WATER DISCHARGED SHALL BE FREE FROM:

   A. DEBRIS, OIL, SCUM AND OTHER FLOATING MATERIALS, OTHER THAN IN TRACE AMOUNTS;
   B. ERODED SOILS AND OTHER MATERIALS THAT WILL SETTLE TO FORM OBJECTIONABLE DEPOSITS IN RECEIVING WATERS;
   C. SUSPENDED SOLIDS, TURBIDITY AND COLOR AT LEVELS INCONSISTENT WITH THE RECEIVING WATERS;
   D. CHEMICALS IN CONCENTRATIONS THAT WOULD CAUSE VIOLATION OF THE STATE WATER QUALITY CRITERIA IN THE RECEIVING WATERS.

8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORD KEEPING DOCUMENTING INSPECTION AND REPAIR OF ALL EROSION CONTROL MEASURES INSTALLED.

9. THIS PLAN CONTAINS THE MINIMUM EROSION CONTROL MEASURES TO BE TAKEN. THE CONTRACTOR SHALL UTILIZE THE BMP'S OUTLINED IN THE ABOVE REFERENCED MATERIAL FOR IMPLEMENTATION OF ADDITIONAL MEASURES, AS REQUIRED.

EROSION AND SEDIMENTATION MANAGEMENT MEASURES

THE FOLLOWING MANAGEMENT MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR SEDIMENT CONTAMINATION OF DOWNSTREAM WATERWAYS AND CONVEYANCE SYSTEMS, AND TO PRESERVE SURROUNDING FEATURES THAT ARE TO REMAIN UNDISTURBED:

1. WHERE CONSTRUCTION VEHICULAR ACCESS ROUTES INTERSECT PAVED ROADWAYS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING AND SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

2. CONSTRUCTION SHALL BE SEQUENCED SO THAT GRADING OPERATIONS AND STORM DRAINAGE INSTALLATION CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

3. AREAS THAT ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED BY FENCING, FLAGS, SIGNS, ETC.

4. DURING CONSTRUCTION, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ONSITE, AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE SITE.

5. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.

6. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE ARCHITECT/ENGINEER OR OWNER, IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.

7. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

8. PERIODIC INSPECTIONS AND REQUIRED MAINTENANCE MUST BE PROVIDED, ESPECIALLY AFTER EACH SIGNIFICANT STORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

9. ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED WHENEVER WATER SEEPS FROM A SLOPE FACE.

SEQUENCE OF SITE CONSTRUCTION:

PHASE 1 – INITIAL PREPARATION AND DEMOLITION

1. HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ARCHITECT/ENGINEER AND OWNER.
2. CONTACT APPROPRIATE UTILITY COMPANIES AND COORDINATE UTILITY MARKING, RELOCATION AND/OR REMOVAL.
3. DO NOT INITIATE ANY LAND DISTURBING ACTIVITIES UNTIL AUTHORIZED TO PROCEED BY THE OWNER.
5. INSTALL STORM DRAIN INLET PROTECTION AS SHOWN ON THE PLANS.
6. INSTALL PERIMETER SILT FENCE AS SHOWN ON THE PLANS.
7. INSTALL CONSTRUCTION ENTRANCE AS INDICATED ON THE PLANS OR IN LOCATION AS DIRECTED BY THE ARCHITECT/ENGINEER.
8. INSTALL TRACK PROTECTION MEASURES AS REQUIRED BY THE PLANS.
9. ONCE ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, AND INSPECTED BY THE ARCHITECT/ENGINEER, BEGIN MASS DEMOLITION, STRIPPING, AND CLEARING OPERATIONS. ENSURE RUNOFF IS DIRECTED TOWARDS EROSION CONTROL MEASURES.
10. APPLY TEMPORARY SEEDING IMMEDIATELY TO ALL DISTURBED AREAS NOT TO BE BROUGHT TO FINAL GRADE FOR A PERIOD LONGER THAN 14 CALENDAR DAYS. APPLY SEEDING TO STOCKPILE(S).

PHASE 2 – SITE CONSTRUCTION AND FINAL STABILIZATION

11. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION IN A MANNER THAT DOES NOT BLOCK ACCESS TO OTHER AREAS OF THE SITE AND INHIBIT WORK FROM PROCEEDING IN A TIMELY FASHION.
12. COMMENCE ROUGH-GRADING OF THE EXISTING TURF FIELD.
13. AS THE SITE IS ROUGH-GRADED, UNDERCUT AND REMOVE UNSUITABLE MATERIALS AND REPLACE WITH SELECT MATERIAL AS NEEDED UNDER THE DIRECTION OF THE SITE GEOTECHNICAL ENGINEER. FOLLOW EARTHWORK RECOMMENDATIONS FROM GEOTECHNICAL ENGINEER AND SITE GEOTECHNICAL REPORT DURING CONSTRUCTION.
14. EXCAVATE AND REMOVE ALL STORM DRAINAGE SYSTEM AND INSTALL NEW STORM DRAINAGE AND COLLECTOR SYSTEM.
15. EXCAVATE AND INSTALL CONCRETE PERIMETER CURB.
16. PERFORM FINE GRADING, COMPACT SUBGRADE, AND COMMENCE CONSTRUCTION OF NEW GOALPOST FOUNDATIONS
17. COMMENCE TURF FIELD CONSTRUCTION:

    - INSTALL FILTER FABRIC AND FLAT PANEL DRAINS
    - PLACE #57 STONE STORAGE LAYER AND FINISHING STONE AND COMPACT AS REQUIRED
    - INSTALL FINE GRADE ON TURF FIELD AND COMPACT AS REQUIRED
    - INSTALL SHOCK PAD
    - INSTALL SYNTHETIC TURF AND INFILL MATERIAL
    - VACUUM-CLEAN EXISTING STORM DRAINS AND PIPES WITHIN PROJECT SITE.
    - PERFORM REQUIRED INFILTRATION TESTS PER NOTES AND SPECIFICATIONS

18. APPLY TOPSOIL, SEED, AND MULCH TO THE LIMITS OF DISTURBANCE IF APPLICABLE
19. REPAIR ANY SURFACES OR FEATURES THAT WERE DAMAGED DURING CONSTRUCTION.
20. REPAIR ANY INADVERTENT EROSION AND REMOVE ANY INADVERTENT SEDIMENTATION FROM THE SITE.
21. REMOVE TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, TRASH, AND DEBRIS FROM THE SITE.
22. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED.

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN LODEAN CROWN REGISTERED ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

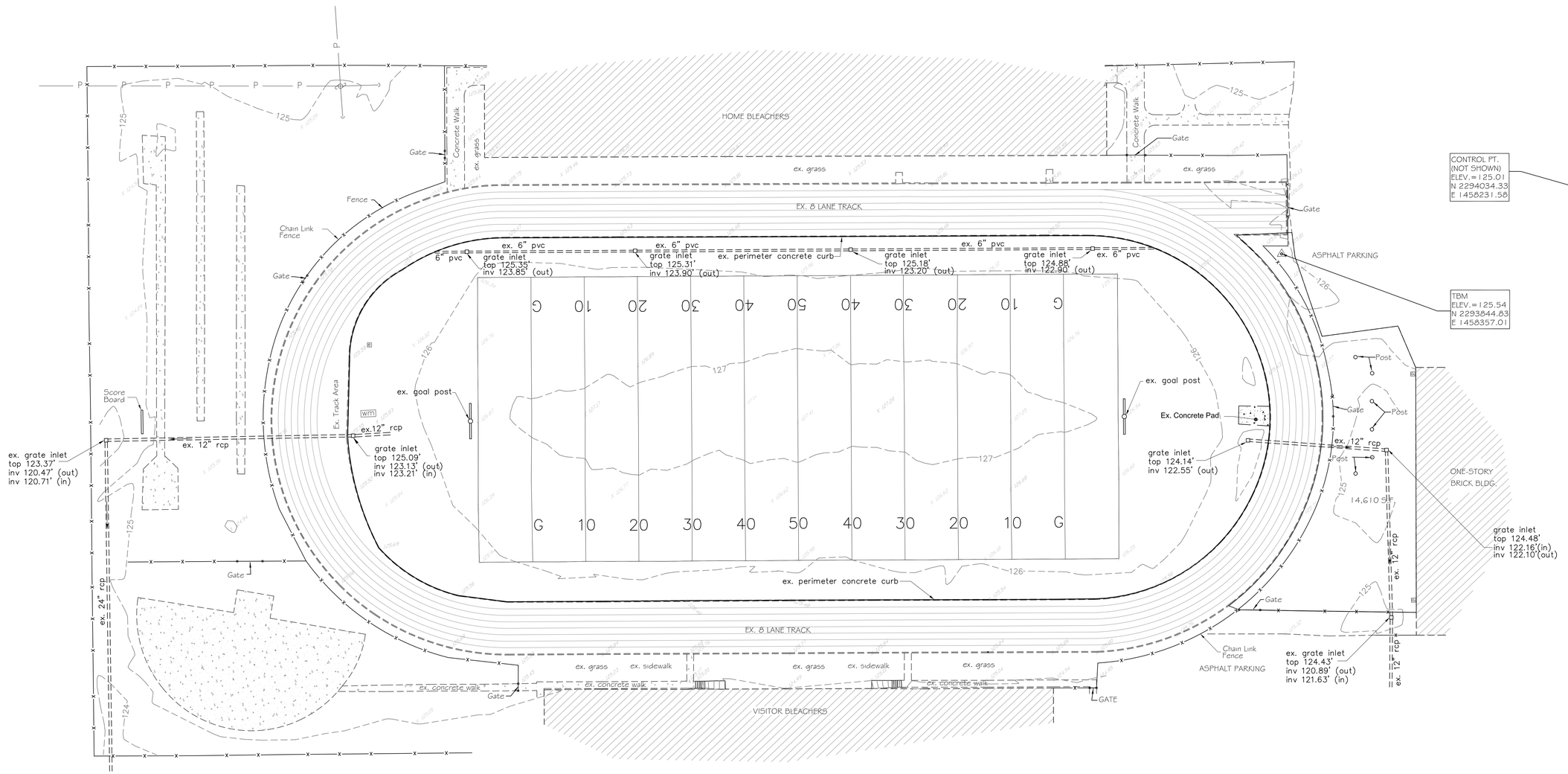
REVISIONS 1
2
3
4

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL NOTES

SHEET NUMBER OF

Drawing No.
C101



LEGEND

- EXISTING DRAIN INLET
- EXISTING STORM PIPE
- 446 EX. CONTOURS
- DOWNSPOUT
- ELECTRICAL BREAKER BOX
- ELECTRICAL JUNCTION BOX
- FINISHED FLOOR ELEVATION
- FIRE HYDRANT
- GAS METER
- GRATE INLET (SIZE NOTED)
- GRATE INLET (18" ROUND-TYP)
- IRRIGATION VALVE
- p — OVERHEAD POWER/TELEPHONE
- x — EXISTING CHAIN LINK FENCE
- tv — UNDERGROUNDTELECOMM
- ut — UNDERGROUND TELCOMM
- fo — UNDERGROUND FIBER OPTIC
- LIGHT POLE
- POWER METER
- ELECTRICAL UNDERGROUND BOX
- SANITARY SEWER MANHOLE
- SPRINKLER
- X 124.94 SPOT ELEVATION
- TELECOMMUNICATIONS MANHOLE
- TELEPHONE PEDESTAL
- TREE (SIZE & TYPE NOTED, IF KNOWN)
- WM WATER METER
- WV WATER VALVE
- ue — UNDERGROUND ELECTRIC
- g — GAS LINE
- ss — SANITARY SEWER MAIN
- t — UNDERGROUND TELEPHONE
- w — WATER MAIN

30 15 0 30 60 90

SCALE: 1"=30'

Date of field survey: November 26, 2023.

Class "B" survey in accordance with the minimum standards for land surveying in the State of Mississippi.

Vertical elevations taken from GPS Network NAVD88.

Subsurface and environmental conditions were not examined or considered as a part of this survey.

I, Colin L. Baird do hereby certify that the features depicted on this plat are a correct representation of the conditions as they existed on November 26, 2023

MS One-Call #23112813541836
Process Date: November 28, 2023
Below Notes Dated: December 1, 2023

AT&T Distribution-CLEAR, NO CONFLICT
Delta EPA - CLEAR, NO CONFLICT
Franklin Telephone Louise - LOCATED, FACILITIES MARKED
ATMOS Energy - LOCATED, FACILITIES MARKED
Suddenlink Greenwood - CLEAR, NO CONFLICT
TelePak DBA CSpire - LOCATED, FACILITIES MARKED
Unti Fiber - CLEAR, NO CONFLICT
City of Itta Bena - NO RESPONSE
MS Valley State - NO RESPONSE

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED PROFESSIONAL ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

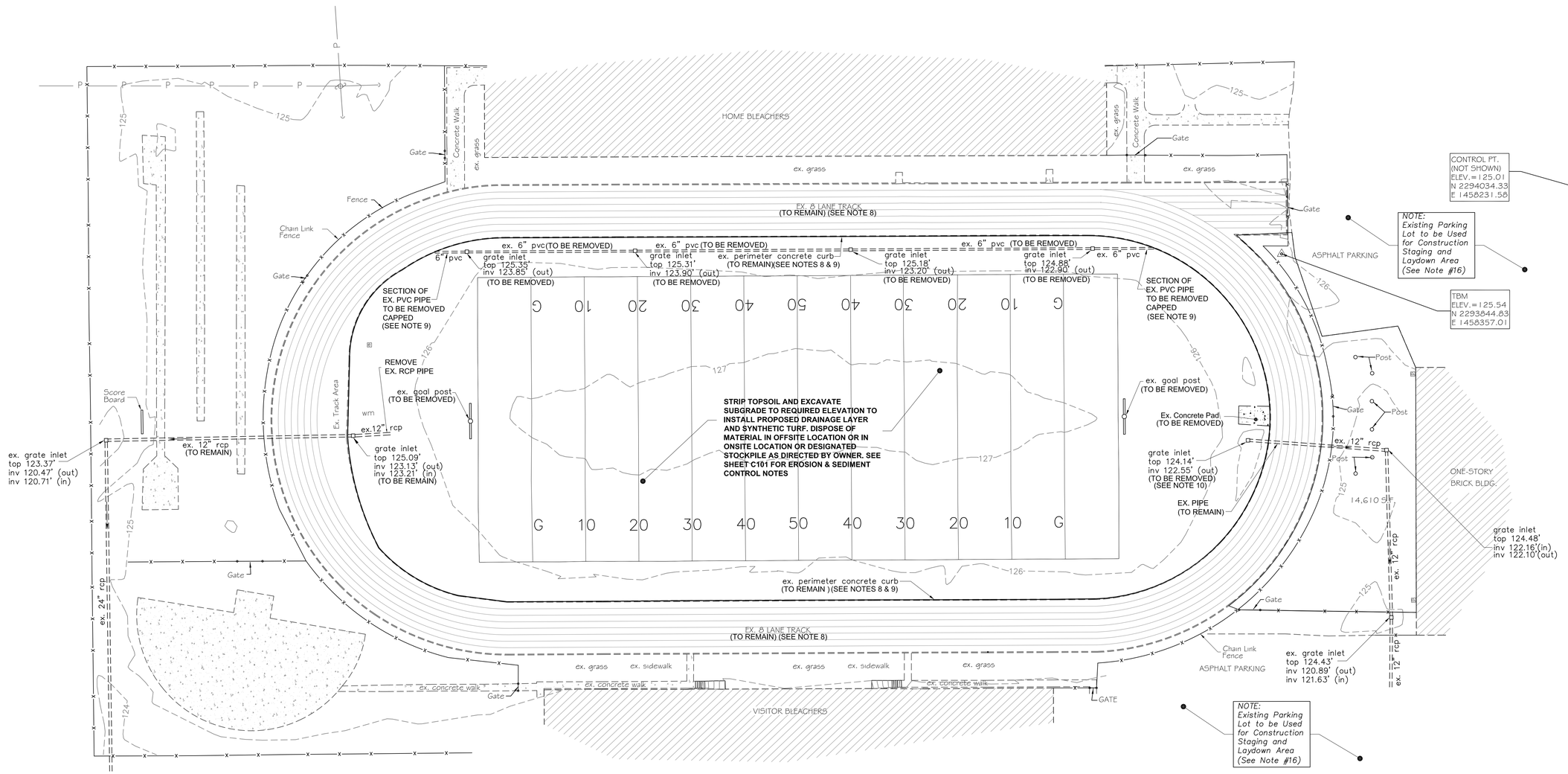
REVISIONS 1
2
3
4

SHEET TITLE

EXISTING SITE CONDTIONS

SHEET NUMBER OF

Drawing No.
C102



DEMOLITION NOTES:

1. PRIOR TO DEMOLITION, ALL DIMENSIONS AND SPECIFICATIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR. REFER TO EXISTING SITE SURVEY AND/OR CIVIL DRAWINGS.
2. THE CONTRACTOR SHALL PLAN AND EXECUTE DEMOLITION WORK BY METHODS TO CONTROL SURFACE DRAINAGE FROM CUTS AND FILLS AND FROM BORROW AND WASTE DISPOSAL AREAS, TO PREVENT EROSION AND SEDIMENTATION. THE AREAS OF BARE SOIL EXPOSED AT ONE TIME SHALL BE HELD TO A MINIMUM. TEMPORARY CONTROL MEASURES SUCH AS SILT FENCES OR WATTLES SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ARCHITECT/ENGINEER. REFER TO THE EROSION & SEDIMENTATION CONTROL NOTES AND MEASURES ON SHEET C101.
3. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE LIMITS OF CONSTRUCTION, SAWCUT LIMITS, AND PERIMETER SILT FENCE AS SHOWN ON THE APPROVED PLANS. IF IT IS NECESSARY TO PERFORM WORK BEYOND THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHTECT/ENGINEER AND COORDINATE THE WORK PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND SHALL CONTACT ANY PUBLIC AND/OR PRIVATE UTILITY COMPANY PRIOR TO CONSTRUCTION. MISSISSIPPI ONE-CALL (811) OR (601-362-4374) MUST CONTACTED A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING. SEE EXISTING SITE SURVEY AND/OR CIVIL DRAWINGS FOR ALL IDENTIFIED UTILITIES.
5. DAILY CLEANUP OF DEBRIS AND ITEMS OF DEMOLITION WILL BE REQUIRED. THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION. ALL DEBRIS (EXCAVATED SOIL, SHRUBS, OLD PAVEMENT, ETC. SHALL BE REMOVED ON A DAILY BASIS.
6. TEMPORARY AND CONSTRUCTION FENCING SHALL BE REQUIRED TO SECURE THE PERIMETER OF THE CONSTRUCTION SITE AND WORK AREA AS WELL AS THE CONSTRUCTION ENTRANCES.
7. THE CONTRACTOR'S FIELD REPRESENTATIVE SHALL BE ON-SITE ANY TIME WORK IS BEING CONDUCTED.
8. THE CONTRACTOR SHALL PROTECT THE EXISTING RUBBER TRACK PRIOR TO ACCESSING THE STADIUM FIELD AND FOR THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL USE THEIR OWN MEANS AND METHODS TO BRIDGE THE EXISTING RUBBER TRACK AND ASPHALT PATH SURROUNDING THE TRACK. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGES CAUSED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PREPARE THE EXISTING EDGE OF CONCRETE PRIOR TO PLACING THE NEW CONCRETE PERIMETER CURB FOR NEW TURF INSTALLATION. THE EDGE SHALL BE FREE FROM DEBRIS AND GENERALLY STRAIGHT WITH A NEAR-VERTICAL EDGE. PERFORM LIMITED SAWCUTTING OR MILLING TO REMOVE EXCESS CONCRETE AND CREATE A CLEAN EDGE WITHOUT DAMAGING RUBBER SURFACE. PROVIDE DOWELS AS SHOWN ON SHEET C108 TO EXPOSED CONCRETE EDGE BEFORE PLACING NEW CONCRETE CURB.
10. WHEN EXISTING DRAINAGE PIPES ARE REMOVED AND NEW PIPES OR DRAINAGE INLETS ARE INSTALLED, THE DRAINAGE STRUCTURES MUST BE PATCHED AND SEALED TO BE WATERTIGHT. CAPS FOR PIPES REQUIRED TO BE CAPPED SHALL BE HAVE A WATERTIGHT CONNECTION.
11. EXISTING STORM PIPES AND STRUCTURES SHALL NOT BE REMOVED UNTIL THE PROPOSED COLLECTOR DRAINS ARE CONSTRUCTED.
12. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING AND/OR REPAIRING ANY EXISTING UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR OWN EXPENSE.
13. FENCES ARE TO REMAIN EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED FOR CONSTRUCTION ACCESS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING (WITH MATCHING MATERIALS) ANY CONCRETE, CURBS, FENCING, PAVEMENT, SIGNS, LIGHT POLES, FENCING, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
15. DRIVEWAYS, SIDEWALKS, ENTRANCES, AND CURBS THAT ARE REMOVED TO ACCOMMODATE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO THE NEAREST JOINT.
16. CONTRACTOR TO USE CONSTRUCTION ENTRANCE AS DETERMINED BY OWNER (NOT SHOWN) AND TO USE DESIGNATED STAGING AND LAYDOWN AREA IDENTIFIED ON PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SUCH AREA AND SHALL MAKE ANY REPAIRS AS NECESSARY AS REQUIRED BY OWNER FOR DAMAGES MADE DURING THE CONSTRUCTION PHASE OF THE PROJECT. POSSIBLE WEIGHT LIMITATIONS OF CONSTRUCTION AND DELIVERY VEHICLES MAY BE REQUIRED BY OWNER AND WILL BE DETERMINED PRIOR TO CONSTRICTION.

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED PROFESSIONAL ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

REVISIONS 1

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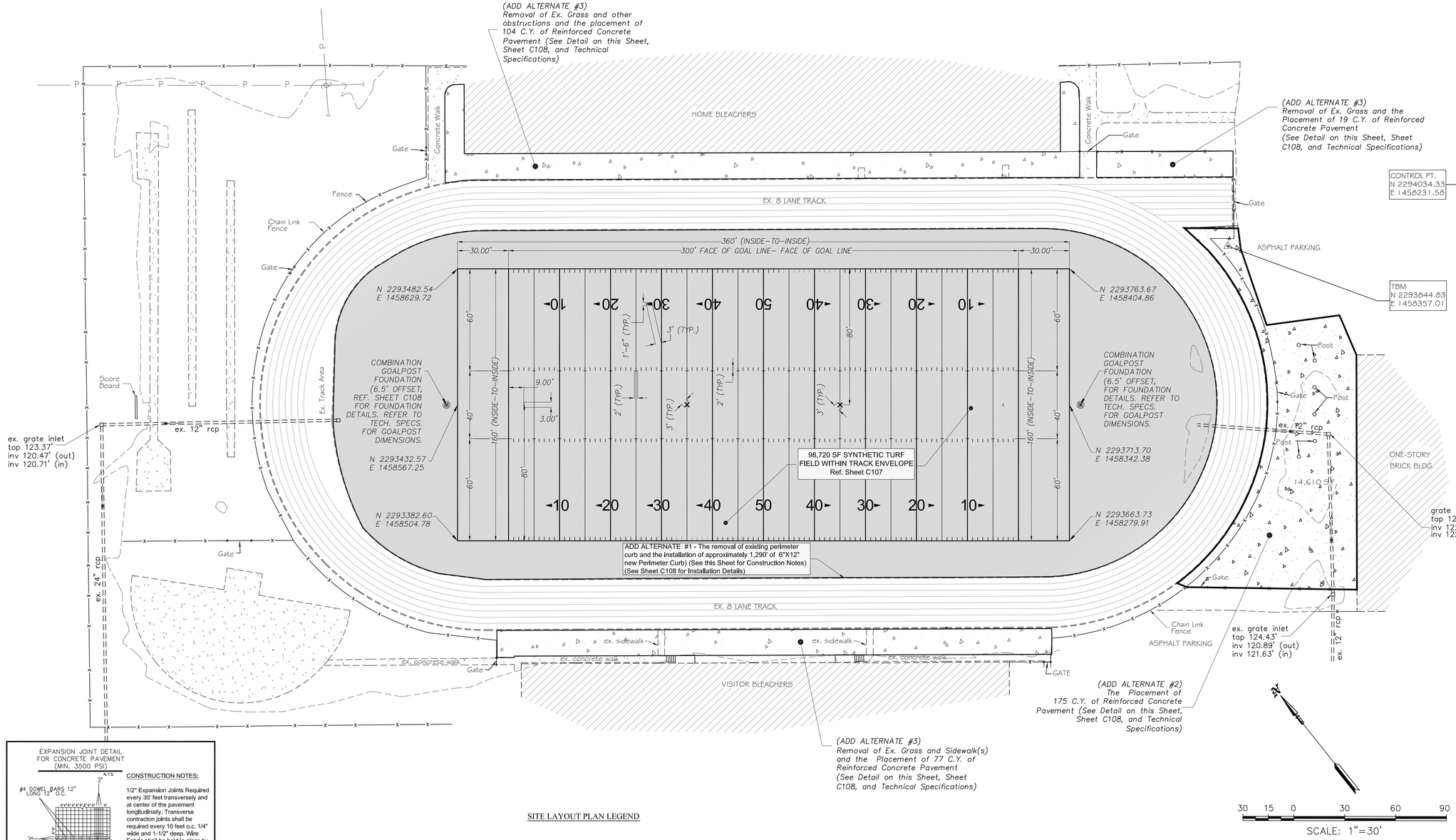
SHEET TITLE

DEMOLITION PLAN

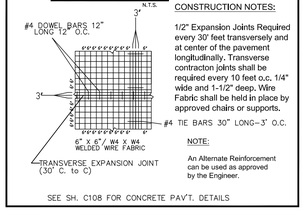
SHEET NUMBER OF

Drawing No.
C103



EXPANSION JOINT DETAIL FOR CONCRETE PAVEMENT (MIN. 3500 PSI)

N.T.S.



CONSTRUCTION NOTES:

1/2" Expansion Joints Required every 30' feet transversely and at center of the pavement longitudinally. Transverse contracton joints shall be required every 10 feet o.c. 1/4" wide and 1-1/2" deep. Wire Fabric shall be held in place by approved chairs or supports.

NOTE:

An Alternate Reinforcement can be used as approved by the Engineer.

SEE SH. C108 FOR CONCRETE PAVT. DETAILS

NEW REINFORCED CONCRETE PAVEMENT (ADD ALTERNATE(S) #2 & #3)

NOTES:

1. THE SUBGRADE PREPARATION IN AREAS SHOWN FOR NEW CONCRETE PLACEMENT SHOULD CONSIST OF REMOVING TOPSOIL, ORGANIC MATERIALS, SOFT OR LOOSE SOILS AND DEBRIS, AND SCARIFYING, MIXING AND RECOMPACTING THE SUBGRADE TO A DEPTH OF 6 INCHES BELOW THE BASE OF THE NEW CONCRETE PAVEMENT. (95% COMPACTION OF MAXIMUM DRY DENSITY REQ'D.) (SEE TECHNICAL SPECIFICATION 02211).
2. NEW CONCRETE TO BE 5" THICK AND REINFORCED AS SHOWN ON DETAILS ON THIS SHEET AND SHEET C108. DOWELS INTO EXISTING ADJACENT CONCRETE TO BE 12" #4 REBAR AND PLACED 24" C.O.C. INSTALLATION FOR DOWELS TO BE AS SPECIFIED IN TECHNICAL SPECIFICATION 03800.
3. CONTRACTOR SHALL USE CAUTION WHEN WORKING AGAINST EX. CURB EDGE TO PRESERVE INTEGRITY OF EXISTING CONCRETE CURB.
4. DO NOT DISTURB SYNTHETIC TRACK SURFACING DURING CONCRETE PAVEMENT INSTALLATION.
5. CONCRETE PLACEMENT TO BE SLOPED TO PROMOTE POSITIVE DRAINAGE. MIN. SLOPE OF 1.00% FINAL GRADING TO BE APPROVED BY ARCHITECT/ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

SITE LAYOUT PLAN LEGEND

PERIMETER CONCRETE CURB

NEW SYNTHETIC TURF

NEW CONCRETE PAVEMENT

FOOTBALL GOALPOST FOUNDATION

ADD ALTERNATE #1 NEW CONCRETE PERIMETER CURB CONSTRUCTION NOTES:

1. EXISTING PERIMETER CURB TO BE COMPLETELY REMOVED PRIOR TO TO THE INSTALLATION OF THE NEW PERIMETER CURB.
2. INSTALL GRANULAR BASE FOR NEW CURB AS REQUIRED. SEE SHEET C108 DETAIL 4.
3. TOP OF CURB SHALL INSTALLED BE AT THE PROPER ELEVATION TO NOT IMPEDE SURFACE FLOW FROM THE TRACK TO THE NEW SUBSURFACE DRAINAGE SYSTEM.
4. IF REQUIRED, EXISTING TRACK SHALL BE SAWCUT AT A CONSISTENT WIDTH ON THE OUTSIDE OF THE MOST INTERIOR RUNNING LANE TO ACHIEVE PROPER ELEVATION FOR THE NEW CURB. EXACT SAWCUT TO BE DETERMINED IN THE FILED AND APPROVED BY THE ENGINEER.
5. DO NOT DISTURB SYNTHETIC TRACK SURFACING, OTHER THAN AS NOTED IN NOTE 4.

CONSTRUCTION NOTES:

1. PRIOR TO EXCAVATION, THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED OWNERS TO GET UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AT OR NEAR THE PROJECT SITE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES, PIPES, INLETS, EX. FENCES, ETC. FROM DAMAGES WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN WORK DONE IN THIS VICINITY. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT.
4. ANY UTILITY LINE OR SERVICE ENCOUNTERED DURING THE CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE PROTECTED BY THE CONTRACTOR THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING NEAR UNDERGROUND POWER LINES AND WHEN PERFORMING WORK NEAR OVERHEAD POWER LINES.
5. DAILY CLEANUP OF MATERIALS AND SUPPLIES WILL BE REQUIRED. THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION.
6. IF THE CONTRACTOR, IN THE COURSE OF ANY WORK, FINDS OR SUSPECTS ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE PHYSICAL CONDITIONS OF THE SITE OR WORK OR ANY ERRORS OR OMISSIONS IN THE CONTRACT DRAWINGS, HE SHALL IMMEDIATELY NOTIFY THE PROFESSIONAL, IN WRITING AND THE PROFESSIONAL SHALL PROMPTLY VERIFY THE SAME.
7. PRIOR TO THE PLACEMENT OF ANY NEW CONCRETE, THE EXISTING OR PROPOSED SUBGRADE SHALL BE PROOF-ROLLED AND COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR. ANY LOOSE SOIL ENCOUNTERED DURING COMPACTION SHALL BE REMOVED AND REPLACED WITH SUITABLE BACKFILL MATERIAL AS REQUIRED.
8. ALL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, FLUSH ALONG ENTIRE COMMON EDGE. DOWELS FOR CONNECTION TO ADJACENT CONCRETE SIDEWALKS, CURBS OR PAVEMENTS TO BE INSTALLED PER TECHNICAL SPECIFICATIONS. FINAL WORK TO BE APPROVED BY THE ARCHITECT/ENGINEER.
9. ALL RADII AND CURBS INDICATED SHALL HAVE CONTINUOUS AND SMOOTH TRANSITIONS WITHOUT ABRUPT CHANGES, BENDS, OR FACETED EDGES.
10. EXPANSION AND CONTRACTION JOINTS SHALL BE INSTALLED IN ALL CONCRETE SURFACES AND CURBS AND SHALL BE PROVIDED AS SPECIFIED ON SHEET C108. WHEN APPLICABLE, EXPANSION JOINTS SHALL BE PROVIDED AROUND ALL JUNCTIONS, STRUCTURES, OR FIXED OBSTRUCTIONS.
11. ALL CONCRETE SIDEWALKS, CURBS, ENTRANCES, AND GUTTERS INDICATED TO BE REMOVED OR REPLACED SHALL BE DONE SO TO THE NEAREST JOINT.
12. SEE DWG. NO. C108 FOR DETAILS FOR PAVEMENT TYPICAL SECTION, PIPE INSTALLATION, CURB AND GUTTER DETAILS.
13. IF APPLICABLE, THE CONTRACTOR SHALL APPLY TACK COAT TO EXPOSED EDGE OF ASPHALT PRIOR TO PLACING NEW CONCRETE CURBS.

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REGISTERED ARCHITECT Akill Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

REVISIONS 1

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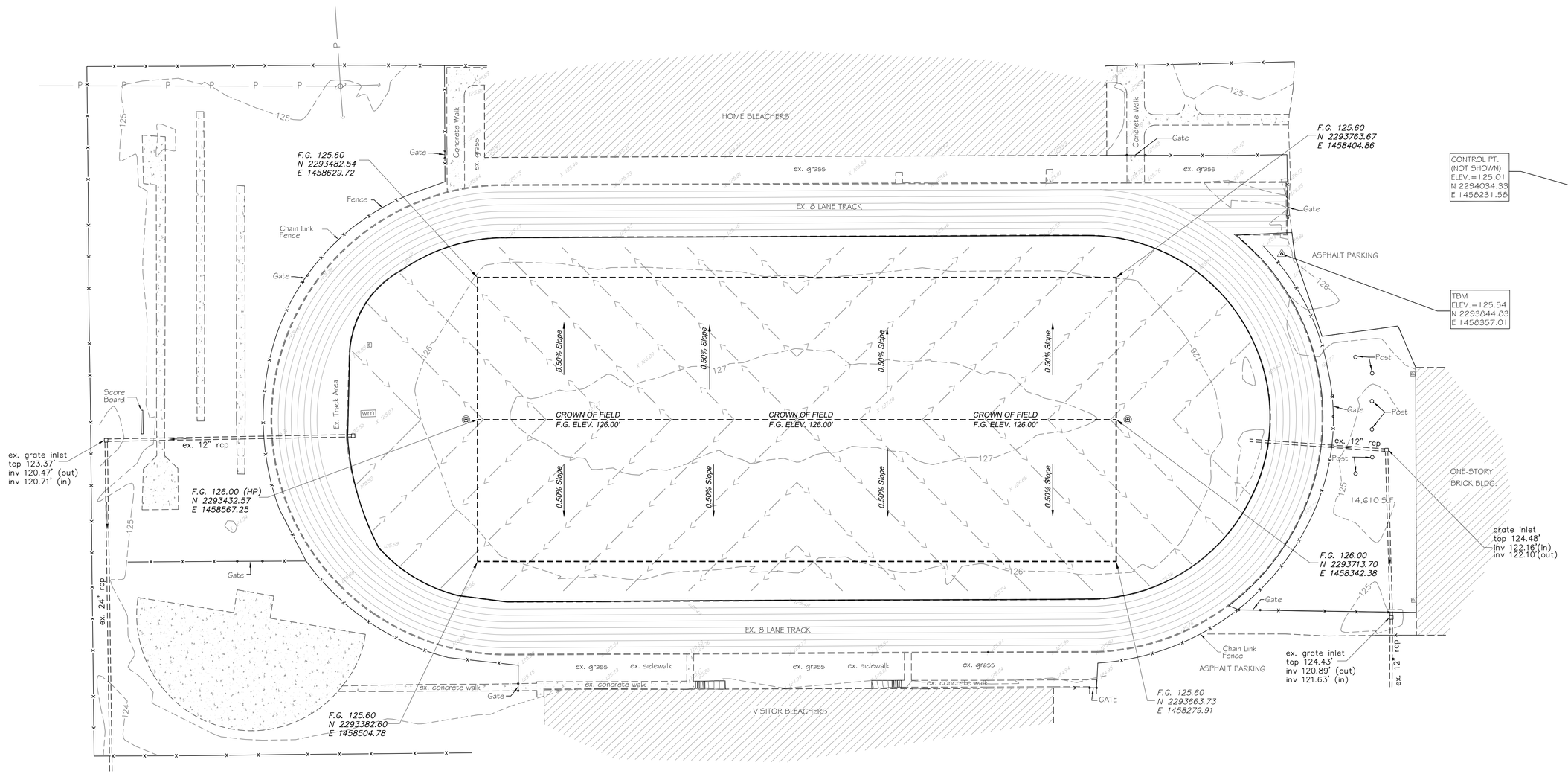
SHEET TITLE

SITE LAYOUT/ FIELD DIMENSION PLAN

SHEET NUMBER OF

Drawing No.
C104



30 15 0 30 60 90

SCALE: 1"=30'

CONSTRUCTION NOTES:

1. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEE SHEET C101 FOR EROSION CONTROL NOTES FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
2. ELEVATIONS SHOWN ARE FINISHED GRADE, TOP OF NATURAL GRASS, CONCRETE PAVEMENT OR TOP OF SYNTHETIC TURF INFILL.
3. ALL AREAS, ESPECIALLY THE SUBGRADE BELOW THE FIELD, SHALL BE GRADED FOR POSITIVE DRAINAGE AS SHOWN ON THE PLANS.
4. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT ARCHITECT/ENGINEER.
5. THE TURF FIELD SUBGRADE SHALL BE GRADED TOWARDS THE PROPOSED STORM DRAINAGE COLLECTOR SYSTEM. REFER TO THIS SHEET AND SECTIONS ON SHEET C107.
6. SUBGRADE MUST BE PREPARED AND COMPACTED IN ACCORDANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS PER PROJECT PLANS AND PROJECT GEOTECHNICAL REPORT.
7. THE CONTRACTOR SHALL PHASE CONSTRUCTION TO COMPLETE THE NEW DRAINAGE SYSTEM AND GRADING OPERATIONS AS SOON AS POSSIBLE AND IN THE SHORTEST TIME POSSIBLE.
8. ALL UNPAVED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE GRADED TO DRAIN, TOPSOILED, SEEDED, MULCHED, AND FERTILIZED.
9. CONTRACTOR MUST PROVIDE SMOOTH AND FLUSH SURFACE AT ALL FIELD ENTRANCES AND MATERIAL TRANSITIONS. NO DIPS, LIPS OR GAPS ARE ACCEPTED.
10. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE COORDINATED WITH PROPER UTILITY COMPANY.
11. EXCAVATED SOIL CAN BE STOCKPILED ONSITE PROVIDED IT IS CLEAN AND FREE FROM DEBRIS, ORGANIC MATTER, HAZARDOUS MATERIAL, AND CONTAMINATION. THE LOCATION OF THE PERMANENT STOCKPILE SHALL BE CONFIRMED WITH THE OWNER PRIOR TO EXCAVATION.
12. TOPSOIL THAT IS REMOVED FROM THE PROJECT CAN BE RE-USED TO RESTORE GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION AND/OR IN A LOCATION AS DETERMINED BY THE OWNER.

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

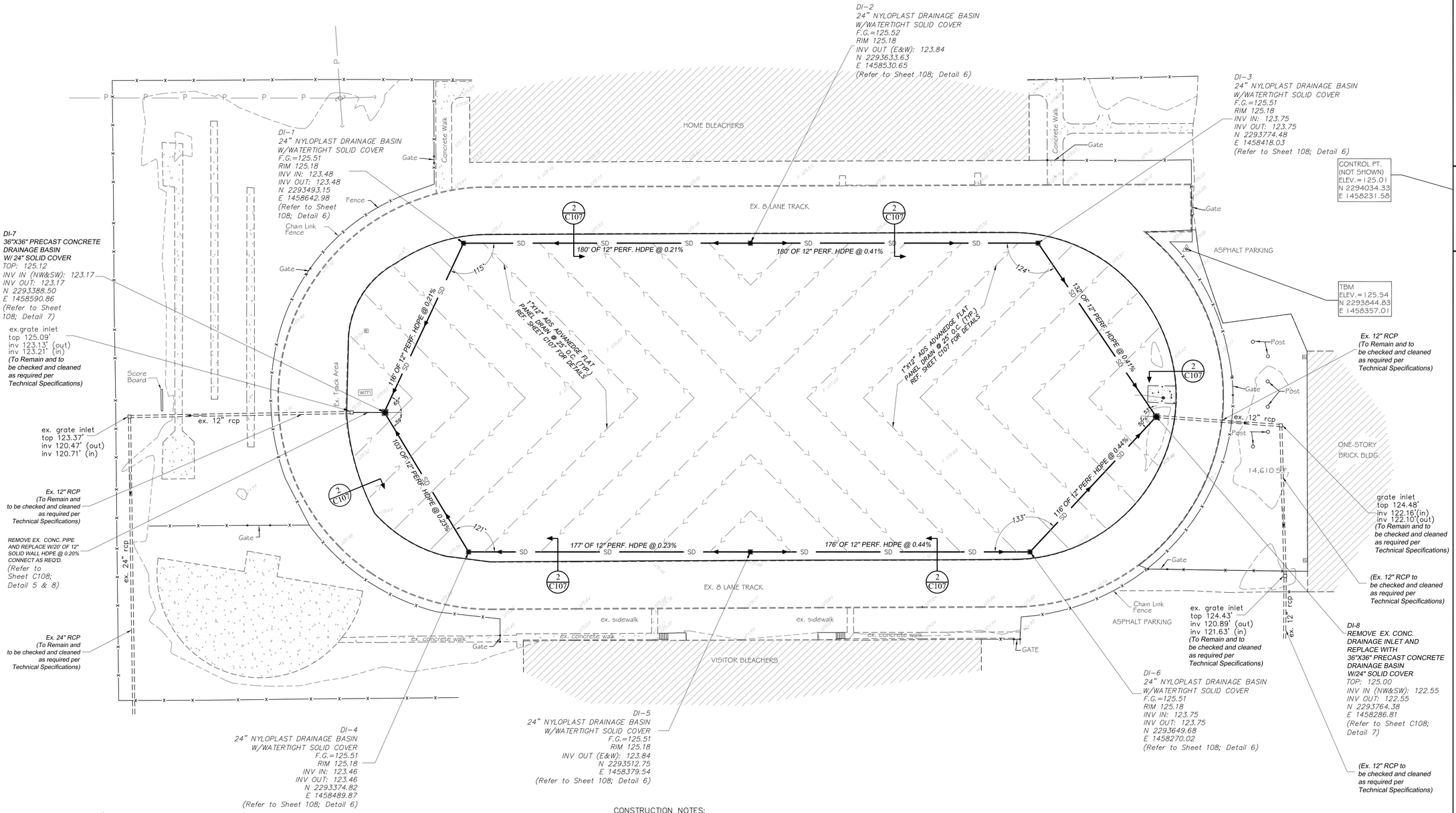
REVISIONS 1
2
3
4

SHEET TITLE

GRADING PLAN

SHEET NUMBER OF

Drawing No.
C105



DRAINAGE SYSTEM LEGEND

EXISTING STORM PIPE

HDPE PERFORATED STORM PIPE — SD —

FLAT PANEL DRAIN ON SUBGRADE

NEW STORM DRAIN

CONSTRUCTION NOTES:

1. ALL HIGH–DENSITY–POLYETHYLENE (HDPE) PIPES SHALL BE N–12 DUAL WALL SMOOTH INTERIOR OR APPROVED EQUAL.
2. THIS PROJECT REQUIRES PERFORATED PIPES AS SHOWN ON THE PLANS AND SECTIONS:
   2.1. PERFORATED PIPES SHALL BE N–12 DUAL WALL SMOOTH INTERIOR HDPE.
   2.2. PERFORATIONS SHALL COMPLY WITH AASHTO CLASS II SPECIFICATIONS.
   2.3. CONNECTIONS BETWEEN PERFORATED PIPES SHALL BE SOIL TIGHT.
   2.4. PERFORATED PIPES SHALL NOT BE WRAPPED WITH GEOTEXTILE FABRIC. INSTEAD, GEOTEXTILE FABRIC SHALL BE PROVIDED BETWEEN THE SUBGRADE AND BOTTOM & SIDES OF #57 STONE BACKFILL.
3. CONNECTIONS TO EXISTING STORM STRUCTURES SHALL BE PERFORMED BY CORE–DRILLING AND SEALING WITH NON–SHRINK GROUT.
4. ALL DRAINAGE PIPES SHALL BE PROVIDED WITH 4" (MINIMUM) COMPACTED MDOT #57 STONE BEDDING.
5. THE CONTRACTOR SHALL PRESERVE INLET PROTECTION ON EXISTING DRAINS UNTIL THEY ARE NO LONGER ACTIVE.
6. THE FLAT PANEL DRAINS SHALL BE INSTALLED ON COMPACTED SUBGRADE BELOW THE SYNTHETIC TURF FIELD AND PER MANUFACTURERS GUIDELINES. PLACE FLAT PANEL DRAINS IN DIRECTIONS AS SHOWN ON PLANS AND ON TOP OF GEOTEXTILE FABRIC SEPARATING SUBGRADE FROM #57 STONE. REFER TO DETAILS ON SHEET(S) C107 AND C108.
7. ALL STORM STRUCTURES AND PIPES WITHIN THE PROJECT LIMITS SHALL BE PROPERLY CLEANED AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED AND PRIOR TO INSTALLING TURF FABRIC.
8. DRAINAGE PIPES SHOWN ARE MEASURED FROM THE CENTER OF FITTINGS AND THE INSIDE EDGE OF EXISTING STORM STRUCTURES.
9. UNDERGROUND DRAINAGE PIPES AND STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS AND DETAILS ON SHEET(S) C107 AND C108.

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

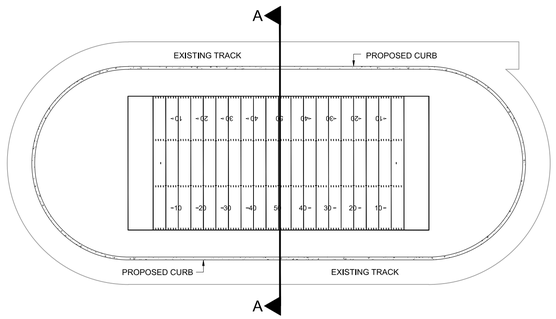
REVISIONS 1 2 3 4

SHEET TITLE

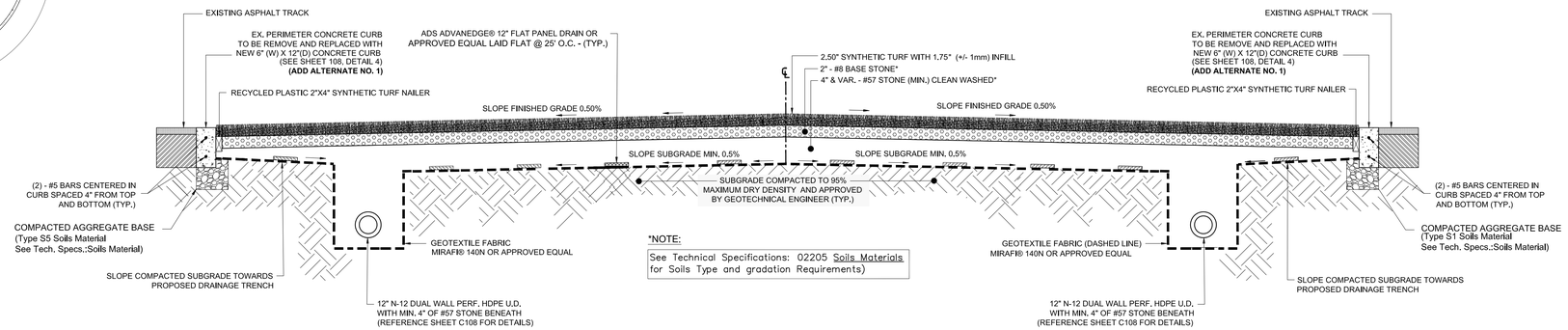
DRAINAGE PLAN

SHEET NUMBER OF

Drawing No. C106

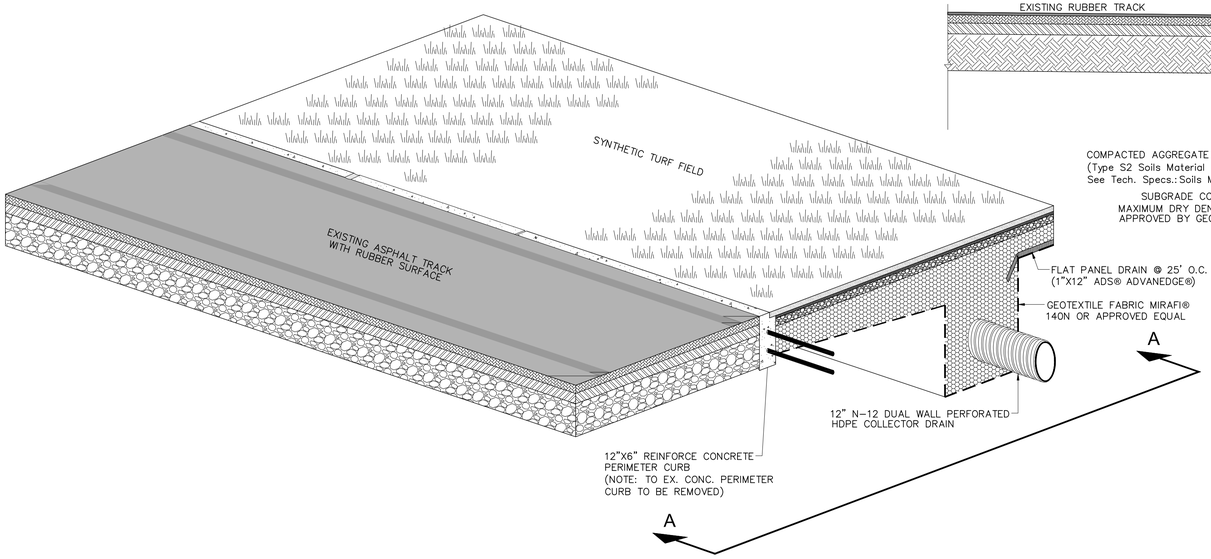


LAYOUT VIEW
NTS

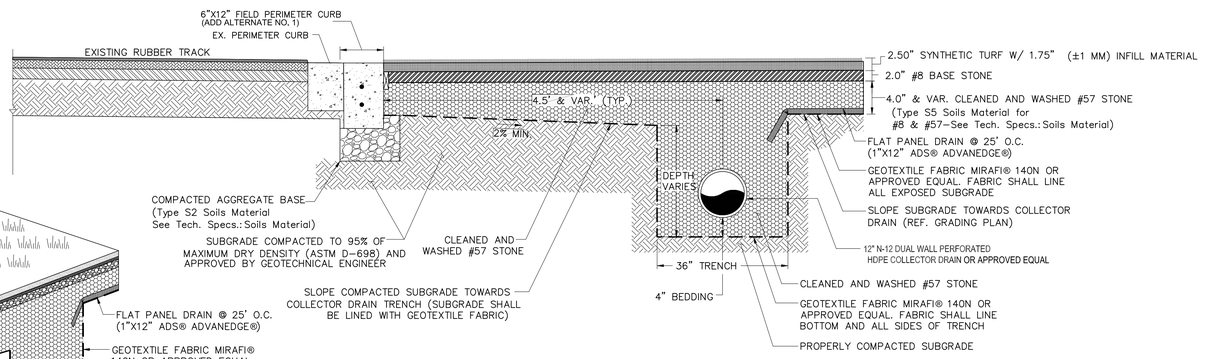


CROSS SECTION A-A
NTS

ATHLETIC FIELD AND SUBGRADE X-SECTIONS (1)
SCALE: NTS



COLLECTOR DRAIN AND FIELD DETAIL (2)
SCALE: NTS



SECTION A-A
SCALE: N.T.S.

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REGISTERED ARCHITECT Akili Kelly 4/5/24 5338 STATE OF MISSISSIPPI

CALVIN L. DEAN REGISTERED PROFESSIONAL ENGINEER 13362 STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

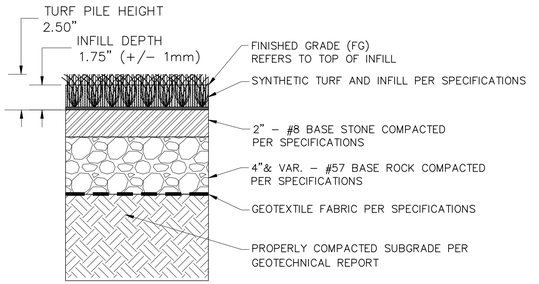
REVISIONS 1
2
3
4

SHEET TITLE

SITE CONSTRUCTION DETAILS (1 OF 2)

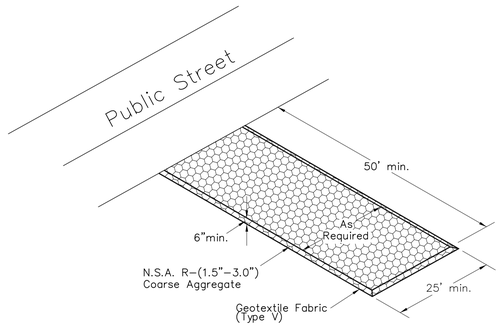
SHEET NUMBER **OF**

Drawing No.
C107



01 SYNTHETIC TURF SECTION

SCALE: NTS

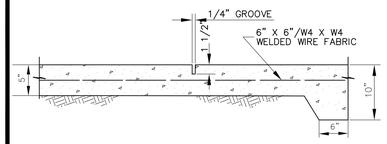


1.) The exit shall be maintained in a condition which will prevent tracking or flow of mud onto public right-of-way.
washed, or tracked from vechicles or site onto roadways or into storm drains must be removed.

2.) Wheels must be cleaned to remove mud prior to entrance onto public right-of-way.

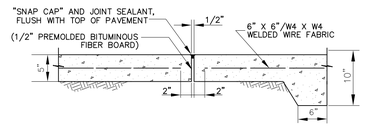
02 AGGREGATE INGRESS/EGRESS ENTRANCE

SCALE: NTS



GRADE AND COMPACT AND SLOPE EXISTING GROUND AS REQ'D.

CONTRACTION JOINT DETAIL

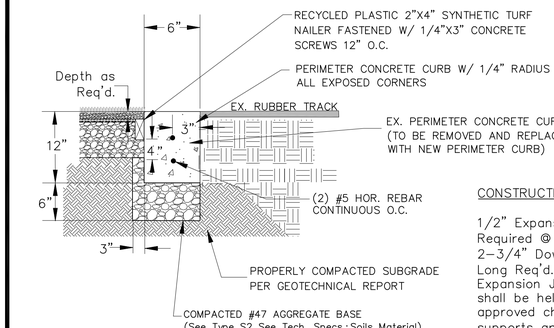


GRADE AND COMPACT AND SLOPE EXISTING GROUND AS REQ'D.

EXPANSION JOINT DETAIL

03 REINFORCED CONCRETE PAVEMENT DETAILS (ADD ALTERNATE(S) NO. 2 & 3)

SCALE: NTS



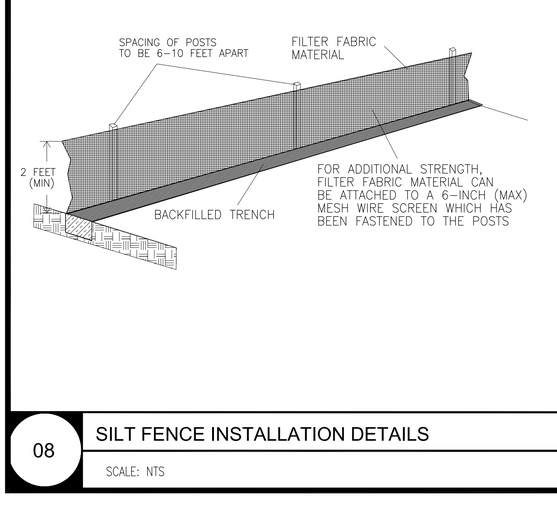
CONSTRUCTION NOTES:

1/2" Expansion Joints Required @ 30' c.c.
2-3/4" Dowel Bars, 15" Long Req'd. at all Expansion Joints. They shall be held in place by approved chairs or supports and 1/2" expansion materials. 1/4" Contraction Joints req'd @ 10' c.c.

04 PERIMETER REINFORCED CONCRETE CURB (ADD ALTERNATE #1)

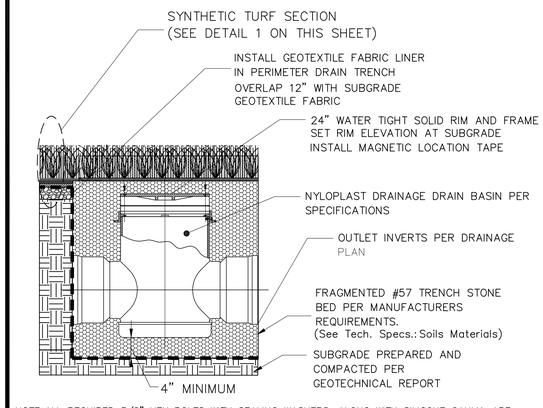
SCALE: NTS

MINIMUM TRENCH WIDTH	
PIPE DIA.	TRENCH WIDTH
6"	12"
8"	16"
12"	36"
18"	40"



05 NON-PERFORATED STORM DRAIN TRENCH

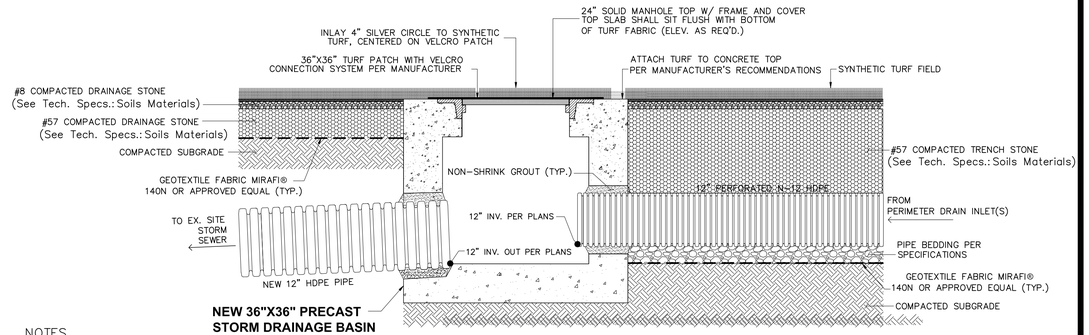
SCALE: NTS



NOTE: ALL REQUIRED 3/8" HEX BOLTS WITH SEALING WASHERS, ALONG WITH SILICONE CAULK, ARE TO BE USED FOR COVER CONNECTION AND SEALING AND SHALL BE DONE IN THE FIELD.

06 PVC DRAIN BASIN IN SYNTHETIC TURF

SCALE: NTS

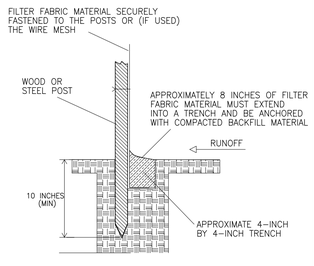


NOTES

1. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT, INCLUDING FITTINGS.
2. PIPES SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND MANUFACTURER'S GUIDELINES.
3. PROVIDE 3" MINIMUM COMPACTED #57 STONE UNDERNEATH LEVELING BRICKS FOR MANHOLE ACCESS FRAME KIT.
4. CONTINUE GEOTEXTILE FABRIC TO OUTER FACE OF DRAINAGE STRUCTURE.

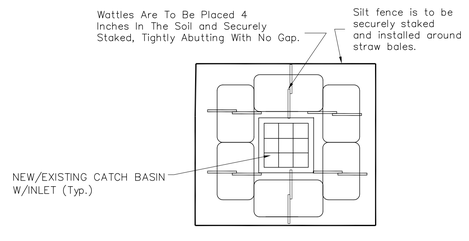
07 PRECAST REINFORCED CONCRETE DRAIN BASIN

SCALE: NTS



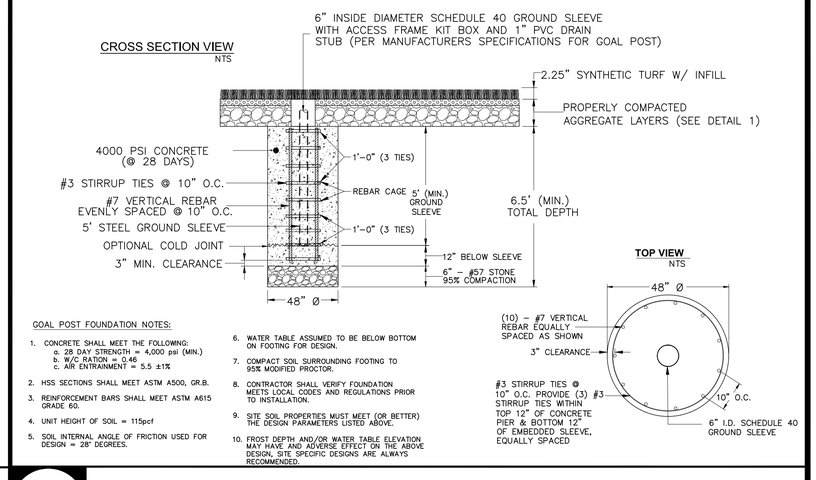
08 SILT FENCE INSTALLATION DETAILS

SCALE: NTS



09 INLET PROTECTION DETAILS

SCALE: NTS



GOAL POST FOUNDATION NOTES:

1. CONCRETE SHALL MEET THE FOLLOWING:
   a. 28 DAY STRENGTH = 4,000 psi (MIN.)
   b. W/C RATION = 0.46
   c. AIR ENTRAINMENT = 5.5 ±1%
2. HSS SECTIONS SHALL MEET ASTM A500, GR.B.
3. REINFORCEMENT BARS SHALL MEET ASTM A615 GRADE 60.
4. UNIT HEIGHT OF SOIL = 115pcf
5. SOIL INTERNAL ANGLE OF FRICTION USED FOR DESIGN = 28° DEGREES.
6. WATER TABLE ASSUMED TO BE BELOW BOTTOM ON FOOTING FOR DESIGN.
7. COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR.
8. CONTRACTOR SHALL VERIFY FOUNDATION MEETS LOCAL CODES AND REGULATIONS PRIOR TO INSTALLATION.
9. SITE SOIL PROPERTIES MUST MEET (OR BETTER) THE DESIGN PARAMETERS LISTED ABOVE.
10. FROST DEPTH AND/OR WATER TABLE ELEVATION MAY HAVE AND ADVERSE EFFECT ON THE ABOVE DESIGN. SITE SPECIFIC DESIGNS ARE ALWAYS RECOMMENDED.

10 GOAL POST FOUNDATION DETAILS

SCALE: NTS

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REGISTERED ARCHITECT — Akill Kelly — 4/5/24 — 5338 — STATE OF MISSISSIPPI

CALVIN L. CROWN — REGISTERED ENGINEER — No. 13362 — STATE OF MISSISSIPPI

Rice-Totten Stadium Turf Replacement

Itta Bena, MS

PROJECT ARCHITECT:

PROJECT NUMBER:

DATE:

DRAWN BY:

CHECKED BY:

REVISIONS 1 2 3 4

SHEET TITLE

SITE CONSTRUCTION DETAILS (2 OF 2)

SHEET NUMBER OF

Drawing No.
C108

PROPOSAL FORM
SECTION 00300

To: Owner **Mississippi Valley State University**

Re: Project # _____
Project Title **Rice-Totten Stadium Turf Replacement**
Location **Mississippi Valley State University Campus**

I propose to complete all work in accordance with the Project Manual and Drawings within **100** consecutive calendar days for the sum of:

BASE BID (Lump Sum):

BASE BID is for furnishing ALL materials, labor, equipment and services necessary for the completion of the installation of Synthetic/Artificial Turf on the Football Field as specified in the Contract Documents and Contract Drawings.
(See Tech. Spec. 04000 for specific Synthetic/Artificial Turf for this Bid)

(Write in the amount of the base bid in words and numbers. The written word shall govern.)

$ _____

Written Amount _____ (written out carries)

BASE BID (ALTERNATE NO. 1) **(Lump Sum):**

BASE BID (ALTERNATE NO. 1) is for furnishing ALL materials, labor, equipment and services necessary for the completion of the installation of Synthetic/Artificial Turf on the Football Field as specified in the Contract Documents and Contract Drawings. (See Tech. Spec. 04000 for specific Synthetic/Artificial Turf for this Bid)

(Write in the amount of the base bid in words and numbers. The written word shall govern.)

$ _____

Written Amount _____ (written out carries)

BASE BID (ALTERNATE NO. 2) **(Lump Sum):**

BASE BID (ALTERNATE NO. 2) is for furnishing ALL materials, labor, equipment and services necessary for the completion of the installation of Synthetic/Artificial Turf on the Football Field as specified in the Contract Documents and Contract Drawings. (See Tech. Spec. 04000 for specific Synthetic/Artificial Turf for this Bid)

(Write in the amount of the base bid in words and numbers. The written word shall govern.)

$ _____

Written Amount _____ (written out carries)

ALTERNATES: (Lump Sum) (Write in the amount of all of the alternates in words and numbers. The written word shall govern.)

Alternate #1 (X) Adds ( ) Deducts
The removal of existing perimeter concrete curb and the installation of approximately 1,290 L.F. of reinforced perimeter concrete curb per plans and specifications.
Dollars ($ _____)
Description _____
_____

Alternate #2 (X) Adds ( ) Deducts

The installation of approximately 175 C.Y. of reinforced concrete pavement in specified locations as shown on plans and per specifications.

Dollars ($_____)

Description_____

_____

Alternate #3 (X) Adds ( ) Deducts

The installation of approximately 200 C.Y. of reinforced concrete pavement in specified locations as shown on plans and per specifications.

Dollars ($_____)

Description _____

_____

SECTION 03900

DRAINAGE BASE, GEOTEXTILE FILTER FABRIC
FLAT PANEL DRAIN AND RECYCLED PLASTIC NAILER BOARD

PART 1

1.01 VERTICAL DRAINAGE BASE MATERIALS

A. Excavation: Existing natural grass field shall be excavated to the depth established as shown on the grading plan. The sub grade shall be shaped to achieve a 0.5% (one half of one percent) slope from the center of the field to each sideline in order to mirror the grade of the finished synthetic turf surface. The sub grade shall also be compacted and proof rolled to a minimum of 95%, in accordance with ASTM D1557 (Modified Proctor procedure).

A. Geotextile Filter Fabric: Non-woven polypropylene geotextile fabric shall be chemically and biologically inert and shall be Mirafi 140N, Mirafi Inc., Pendergrass, GA (888) 795-0808, or approved equal.

B. Drainage Pipe: A network of perforated HDPE highway grade drainage pipe (1" x 12" flat panel pipe) shall be installed under a 6" layer of free draining base aggregate. The drainage pipe will be installed in a herringbone pattern every 25 feet on center and will be connected to 12" perforated diameter perimeter collector lines as shown on drawings.

1. ADS AdvanEdge, 800-821-6710 or approved equal.

    A. 1 inch by 12-inch flat drain.

    B. 12-inch diameter perforated collector drainpipe or approved equal.

2.02 VERTICALLY DRAINING BASE

A. The synthetic turf Base Contractor shall strictly adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the Field Builder's on-site representative, and submitted to the Architect/Owner, verifying that the changes do not in any way affect the warranty.

B. Install geotextile fabric over excavated and prepared sub-grade in accordance with construction drawings and Field Builder's recommendations. Provide a 12" minimum overlap at all seams. Fabric shall first be installed in the drainage trenches prior to installation of perimeter collector lines. After backfilling of all trenches is

complete, the entire field shall be covered with fabric prior to the base aggregate application.

C. Trenching, Drainage Pipe Installation and Backfilling: All piping shall be as specified and connected as required.

1. The base grade shall be shaped to mirror the finished grade and approved by the Architect and/or Owner's Representative. The Base Contractor shall begin layout and trenching for the drainage network as indicated on the drainage plan and all details that apply. Collector lines shall be installed before lateral lines and shall begin with the deepest elevations. Collector lines shall be connected to discharge outlet at the onset of operations. Trenching progress shall work upward in elevation to allow for immediate discharge of water from the entire field in the event of a rainfall.

2. No trenches, with or without pipe, shall be permitted, to remain unfilled overnight and/or while crews are not progressively working on site.

3. All perimeter trenches must be dug in accordance with the field drainage plan details.

4. After all collector and lateral lines have been installed, the Base Contractor shall repair any sub grade undulations prior to installing geotextile fabric.

D. Concrete Header Curb and Recycled Plastic Nailer: The synthetic turf perimeter fastening structure shall be installed before the drainage aggregate.

1. The 6" x 12" concrete header curb shall be installed in accordance with the Drawings and/or Shop Drawings and these Specifications. The foundation of the concrete header curb shall be a compacted free draining aggregate. Future water entering the foundation shall have a free draining path directly to the perimeter collector pipe.

2. Install a Recycled Plastic 2" x 4" Nailer. Nailer shall be set at the depth as required below top of the curb by means of a Tapcon or ramset every 12 inches. This shall be the responsibility of the Base Contractor. See synthetic turf edge attachment detail on drawings.

E. Base Drainage Aggregate: The installation of the base drainage aggregate shall be installed as shown on the construction drawings and should only begin after the drainage pipe installation has been inspected and approved by Owner's Representative. Installation of the Free Draining Base Aggregate shall follow procedures that protect the base grade soils and drainage pipe. The drainage pipe

network and its existing elevations shall not be disrupted through ground pressures from trucks, dozers or by any other means.

1. The base grade subsoil shall be dry before undertaking the placement of base aggregate.
2. Delivery trucks shall enter the field only from the designated entrance point. Base course stone shall be dumped closest to the entrance first and continuously worked towards the furthest point of the field. Extreme care must be taken not to disturb sub grade or drainage network.
3. Track-type dozers shall push out the stone from behind the pile onto and toward the field center. Dozers shall only traffic the aggregate they are spreading.
4. Bulldozer blades shall be equipped with a laser-guided hydraulic system. Care shall be taken not to disturb or contact the base grade soils with the dozer blades or tracks. All equipment trafficking over the drainage aggregate shall insure there is a minimum depth of 4" of aggregate between the geotextile fabric and the dozer track ground contact position.
5. When the aggregate spreading is completed, the surface shall be further-firmed by a 5-ton roller. Static vibration shall not be part of this process.
6. The stone shall be left firm, but not over-compacted as to protect the porosity and drainage capabilities of the aggregate profile.
7. After the drainage stone has been uniformly spread throughout the surface, the surface shall receive a final laser finished grade. This process shall be accomplished using a turf-type tractor, or lightweight grader, equipped with high flotation tires and a hydraulically controlled laser blade.
8. The free-draining base course must be installed to a depth of 6 inches +/- and shall be independently tested for an overall compaction rate of 95% proctor.

F. Finish Stone Levels: The base drainage stone final elevations shall mirror the proposed finish stone layer final grade material. Care shall be taken not to allow the coarser aggregate to surface into the profile or finished grade of the finish stone layer.

1. It is critically important that the finish stone layer is not laser-graded at more than 0.5” depth. Layers deeper than 0.5” are susceptible to over-compaction and restriction of porosity, leading to drainage issues.

2. The finish stone layer shall be applied using high flotation grading equipment. The finish stone material shall be evenly spread throughout the proposed field surface to the final pre-pad or pre-turf elevations.

3. After the finish stone material has been uniformly spread throughout the surface by the described method, the surface shall receive a final laser finish grade. This process shall be accomplished using a turf-type tractor, or lightweight grader, equipped with high flotation tires and a hydraulically controlled laser blade.

4. Care shall be taken throughout the installation not to force the finish stone material into the porosity of the base aggregate below.

5. Final finish stone layer must be graded by means of a laser within 0 to 1/4 inch from design grade. The finished surface tolerance must not exceed ¼ inch over 10 feet in all directions. Base Contractor must provide a topographical survey with a minimum of 200 shots demonstrating finished grade meets all written requirements.

6. Final layer of stone must be installed at a depth of 2.0 inches. Finished aggregate base must be proof-rolled by means of 2- to 5-ton roller. The finished aggregate base must achieve an overall compaction rate of 95% proctor in accordance with ASTM D1557. It shall also be flush with top of recycled plastic nailer board.

7. The synthetic turf Base Contractor is required to stringline the entire field every five feet to identify high and low spots. And identified high and low spots must be eliminated prior to installation of the synthetic turf.

G. Base Acceptance: The Architect and/or Owner's Representative must jointly approve the base before ShockPad or turf installation can begin.

END OF SECTION