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 EMBANKEMENT 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.

CONNECT TO EXISTING STRUCTURE E1
TOP=238.83
INV (18" IN)=234.18
INV (30" IN)=233.46
INV (36" OUT)=233.49

CONNECT TO EXISTING STRUCTURE E2
TOP=239.70
INV (18" IN)=235.07
INV (24" IN)=234.80
INV (30" OUT)=234.74

CONNECT TO EXISTING STRUCTURE E3
TOP=239.50
INV (18" IN)=236.17
INV (24" IN)=235.67
INV (24" OUT)=235.66

CONNECT TO EXISTING STRUCTURE E4
TOP=239.30
INV (18" IN)=236.25
INV (24" OUT)=236.15

EX. ELEC. BOX
(TO BE PROTECTED)

84 LF 18" RCP @ 0.75%
87 LF 18" RCP @ 1.00%
241 LF 18" RCP @ 0.75%
154 LF 18" RCP @ 0.50%
120 LF 18" RCP @ 0.88%
124 LF 18" RCP @ 0.50%
167 LF 18" RCP @ 0.75%

CONSTRUCT INLET D1
TOP=240.80
INV (18" OUT)=236.06

CONSTRUCT INLET D2
TOP=240.80
INV (18" IN)=234.91
INV (18" OUT)=234.81

CONSTRUCT INLET D3
TOP=240.80
INV (18" OUT)=236.88

CONSTRUCT INLET D4
TOP=240.80
INV (18" OUT)=237.91

CONSTRUCT INLET D5
TOP=240.50
INV (18" IN)=237.14
INV (18" OUT)=237.04

CONSTRUCT INLET D6
TOP=240.80
INV (18" OUT)=238.03

CONSTRUCT INLET D7
TOP=240.70
INV (18" IN)=237.41
INV (18" OUT)=237.31

N: 366914.72
E: 794615.36

EXISTING HANGAR
EXISTING PARKING LOT
FUTURE TERMINAL LOCATION
PROPOSED PAVING LIMITS
AREA #3
(~8,315 SY)
PROPOSED PAVEMENT
LIMITS - AREA #1
(~20,733 SY)
(NOT IN CONTRACT)
EXISTING PAVEMENT
(TO BE PROTECTED)
AREA #3
ADD. ALT. #1
ADD. ALT. #1
ADD. ALT. #2
PROPOSED PAVEMENT
LIMITS - ADD. ALT. #1
(~556 SY)
AREA #1
AREA #2
AREA #2
AREA #1
ADD. ALT. #2
PROPOSED PAVING LIMITS
AREA #2
(~4,997 SY)
(NOT IN CONTRACT)
PROPOSED PAVEMENT
LIMITS - ADD. ALT. #2
(~1,838 SY)
EXISTING PAVEMENT
(TO BE PROTECTED)

APRON PAVEMENT REHABILITATION
NEW APRON PAVEMENT
PARKING LOT PAVEMENT REHABILITATION

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.

FOR REFERENCE ONLY

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_C (CFS)	Q_A (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

N
0 40 80 120
SCALE IN FEET

TAKE OFF WITH US
Memphis INTERNATIONAL AIRPORT

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

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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
SHEET NO. C-GR-01
SCALE 1"=40'
SHEET 19 OF 47