

CONSTRUCTION PLANS FOR HAWKINS FIELD AIRPORT JACKSON MUNICIPAL AIRPORT AUTHORITY JACKSON, MISSISSIPPI REHABILITATE TAXIWAY D

SCOPE OF WORK:

THIS PROJECT CONSISTS OF THE REHABILITATION OF TAXIWAY D, INCLUDING REMOVAL AND REPLACEMENT OF BITUMINOUS SURFACE COURSE AND CRUSHED AGGREGATE BASE COURSE FOR 440 FEET. ADDITIONAL WORK INCLUDES DRAINAGE IMPROVEMENTS, ADJUSTING TAXIWAY LIGHTING, PAVEMENT MARKINGS AND OTHER INCIDENTALS.



LOCATION MAP

J.M.A.A. PROJECT NO.: 009-16
A.I.P. NO. (Eng.): (TO BE ASSIGNED)

DATE: AUGUST 2016

LATITUDE: 32° 20' 05" N
LONGITUDE: 90° 13' 21" W
ELEVATION: 341.3' A.M.S.L.

Mayor:
Tony Yarber

Jackson Municipal Airport Authority members:

Dr. Rosie L.T. Pridden, Chair
Rev. James L. Henley, Jr., Vice Chair
LaWanda D. Harris, Commissioner
Vernon W. Hartley, Sr., Commissioner
Evelyn O. Reed, Commissioner

SUBMITTED BY:

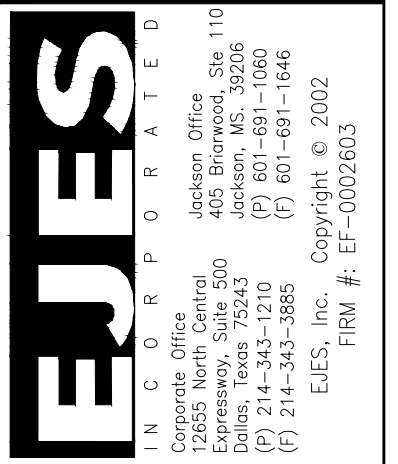
TANITA GILBERT-BAKER, P.E.
EJES, INC

DATE



404 BRIARWOOD, SUITE 110
Jackson, MS. 39206
(P) 601-691-1060
(F) 601-691-1646

DRAWN BY: SDW
CHECKED BY: SJM
DATE: 8/11/2016



COVER SHEET
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
N/A

PROJECT NO.
J.M.A.A. PROJECT NO.: 009-16
A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO.
1

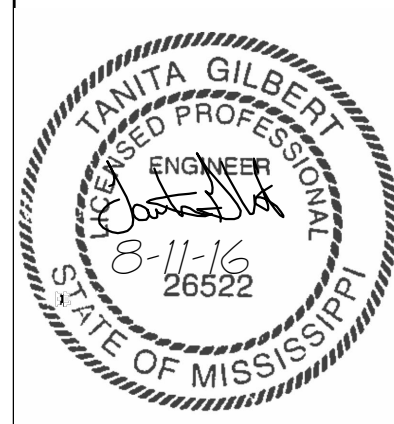
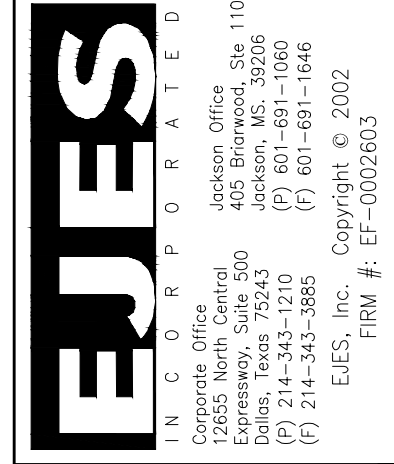
SUMMARY OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	APPROX. QTY.	UNIT
P-152-4.1	UNCLASSIFIED EXCAVATION	692	CY
P-152-4.5	BORROW EXCAVATION	556	CY
P-156-1.1	TEMPORARY SILT FENCING	1000	LF
P-156-1.3	TEMPORARY STONE CONSTRUCTION ENTRANCES	2	EA
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (THICKNESS VARIES)	416	CY
P-401-8.1	BITUMINOUS SURFACE COURSE (4" THICK)	550	TONS
P-603-5.1	BITUMINOUS TACK COAT	249	GAL
P-620-5.1	RUNWAY AND TAXIWAY PAINTING (INCL REFL MEDIA)	1400	SF
D-701-5.1	24" RCP	1640	LF
D-751-5.3	INLETS	7	EA
T-901	SEEDING	1	ACRE
S-001.1	CONSTRUCTION LAYOUT AND STAKING	1	LS
S-001.2	L-853 TAXIWAY SEMI-FLUSH RETROREFLECTIVE MARKERS, TYPE I	10.0000	EA
S-001.3	MOBILIZATION	1.0000	LS
SS-300-5.1	LOCKOUT/TAGOUT AND CONSTANT CURRENT REGULATOR CALIBRATION PROCEDURES	1.0000	LS
SS-301-5.1	EXISTING STAKE MOUNTED EDGE LIGHT, ADJUSTED TO NEW GRADE	10.0000	EA

GENERAL NOTES

- ALL GRADES SHALL BE SET IN THE FIELD AND APPROVED BY THE PROJECT ENGINEER PRIOR TO PLACING ASPHALT. THE PROJECT ENGINEER MAY MAKE GRADE ADJUSTMENTS AS DEEMED NECESSARY TO ENSURE PROPER DRAINAGE.
- THE MAXIMUM WIDTH FOR ASPHALT PAVING IS 12 FEET, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
- ALL REQUIRED PAVEMENT REMOVALS MUST BE SAW CUT. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK.
- DEMOLISH AND REMOVE EXISTING ASPHALTIC PAVEMENT, THICKNESS VARIES. ONLY EXISTING AGGREGATE BASE TO REMAIN.

INDEX TO SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	AIRPORT LAYOUT PLAN
4	PROJECT LAYOUT PLAN
5	PROJECT SAFETY PLAN
6-7	CONSTRUCTION SEQUENCING PLAN
8	DEMOLITION PLAN
9	TYPICAL SECTIONS
10	PLAN AND PROFILE SHEET
11	GRADING AND DRAINAGE PLAN
12-13	ELECTRICAL DETAILS
14	MISCELLANEOUS DETAILS
15	CROSS SECTIONS

DRAWN BY: SDW
 CHECKED BY: SJM
 DATE: 8/11/2016



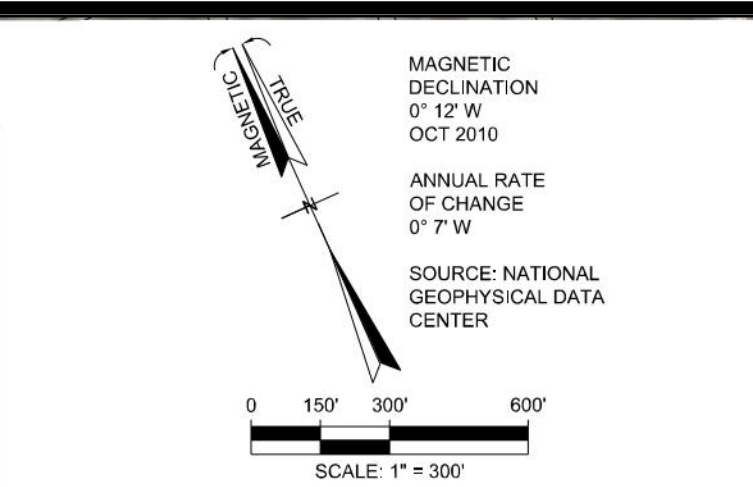
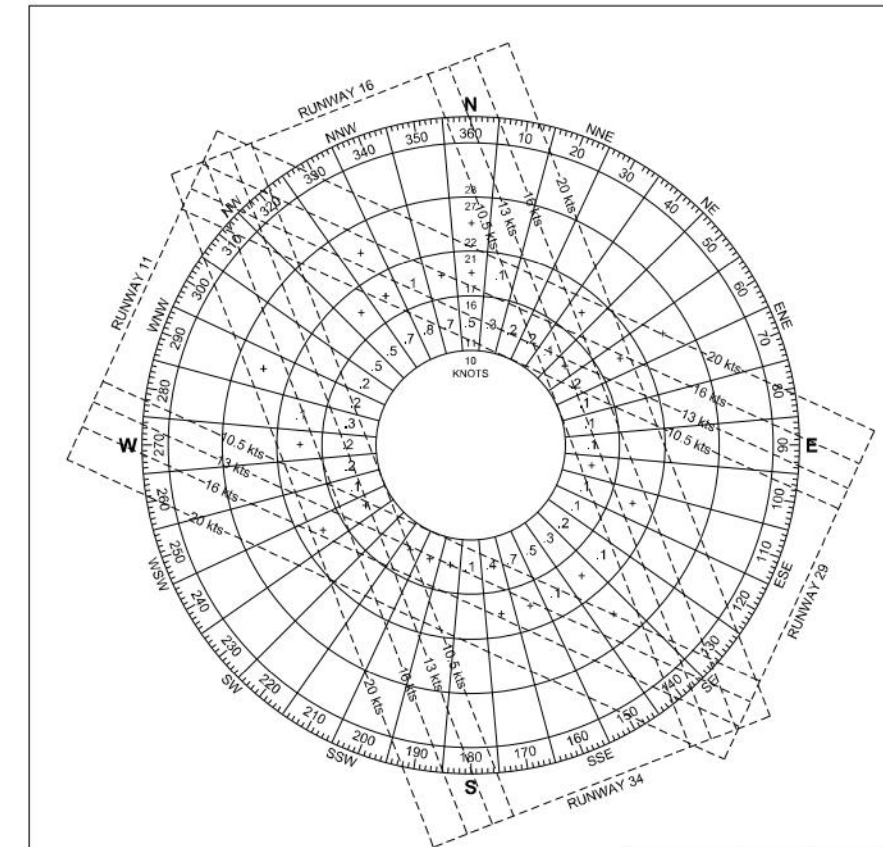
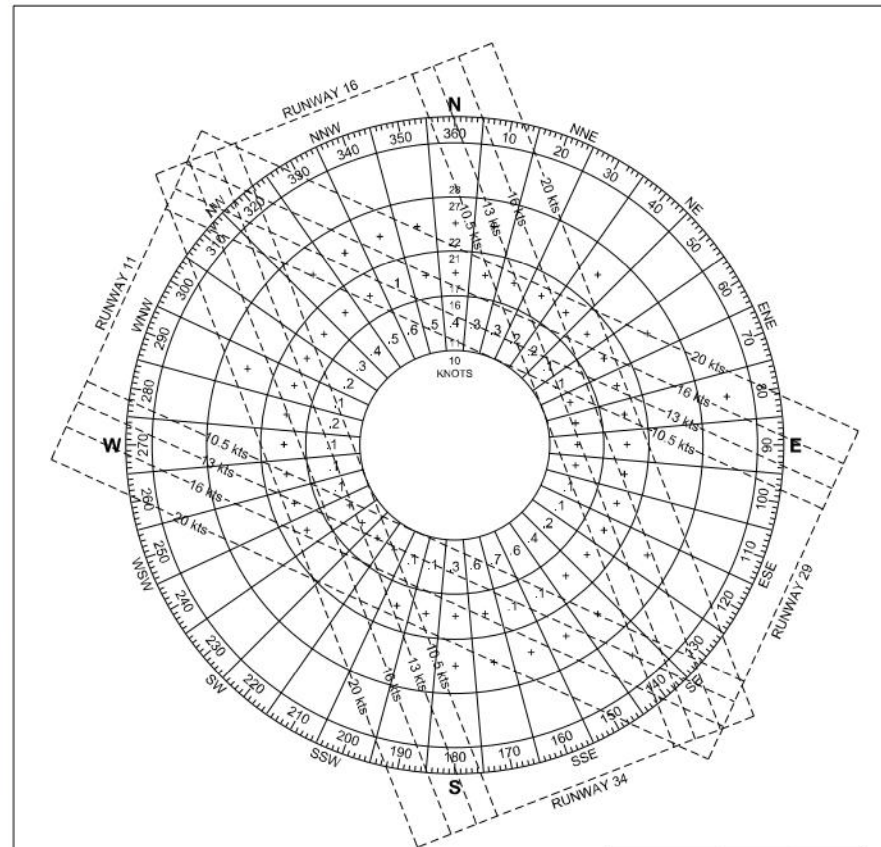
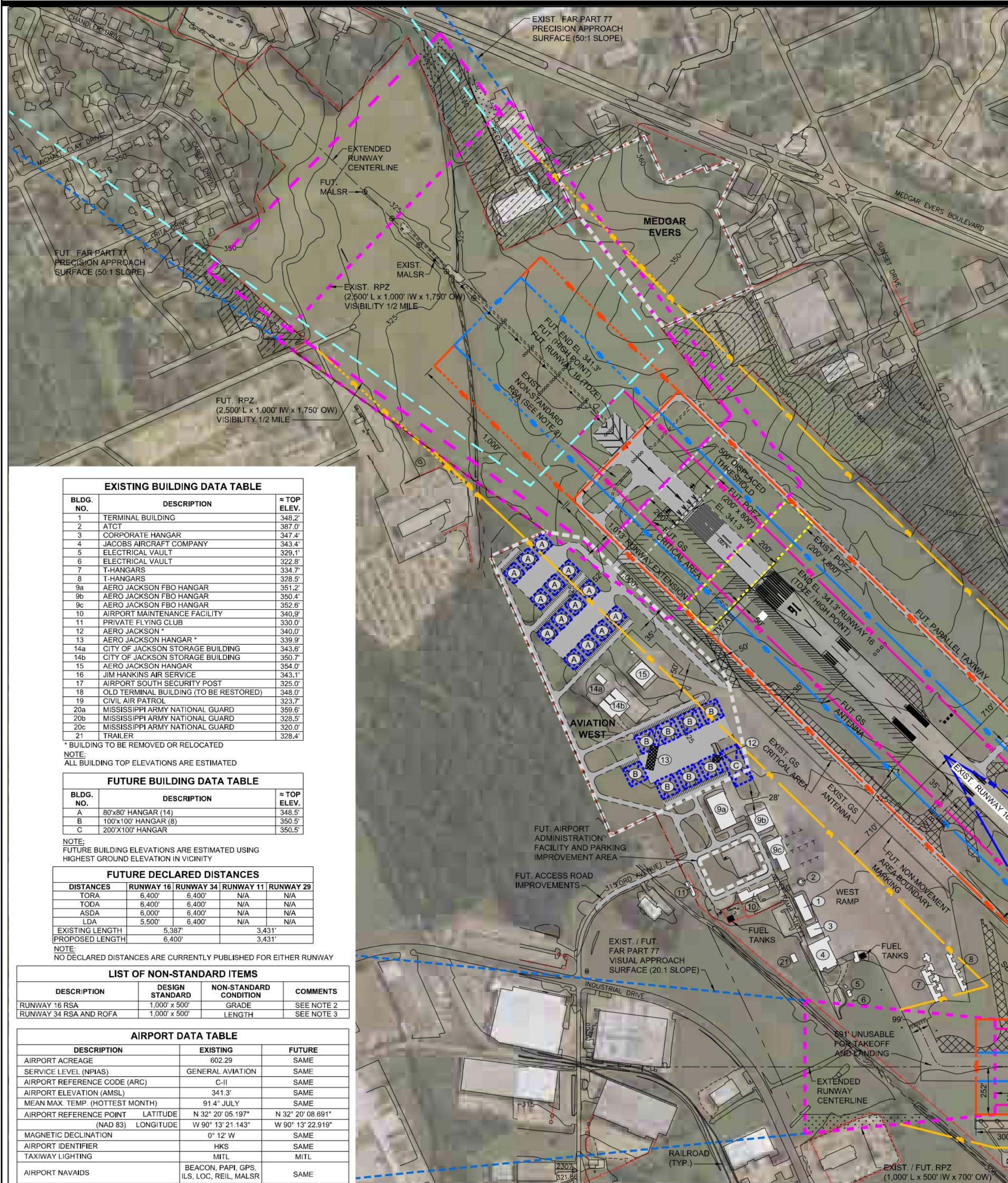
SUMMARY OF QUANTITIES/
 INDEX TO SHEETS
 REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 AS NOTED

PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO.
 2



DESCRIPTION	LEGEND	
	EXISTING	FUTURE
PROPERTY LINE	---	---
BUILDINGS	█	█
PAVEMENT	█	█
RUNWAY MARKINGS	---	---
DRAINAGE MARKINGS	---	---
RVZ	---	---
RSA	---	---
ROFA	---	---
OFZ	---	---
BRL	---	---
NAVAIDS / LIGHTING	---	---
FENCE	---	---
AIRPORT BEACON	•	•
LANDSIDE DEVELOPMENT ZONE	---	---
PAVEMENT REMOVAL	---	---
EASEMENT	---	---
BUILDING REMOVAL / RELOCATION	---	---

BLDG. NO.	DESCRIPTION	± TOP ELEV.
1	TERMINAL BUILDING	348.2
2	A/OT	387.0
3	CORPORATE HANGAR	347.4
4	JACOBS AIRCRAFT COMPANY	343.4
5	ELECTRICAL VAULT	329.1
6	ELECTRICAL VAULT	322.9
7	HANGARS	334.7
8	HANGARS	328.5
9a	AERO JACKSON FBO HANGAR	351.2
9b	AERO JACKSON FBO HANGAR	350.4
9c	AERO JACKSON FBO HANGAR	352.6
10	AIRPORT MAINTENANCE FACILITY	340.9
11	PRIVATE FLYING CLUB	339.0
12	AERO JACKSON*	340.0
13	AERO JACKSON HANGAR*	339.9
14a	CITY OF JACKSON STORAGE BUILDING	343.9
14b	CITY OF JACKSON STORAGE BUILDING	350.7
15	AERO JACKSON HANGAR	354.9
16	JIM HANKINS AIR SERVICE	343.1
17	AIRPORT SOUTH SECURITY POST	325.0
18	OLD TERMINAL BUILDING (TO BE RESTORED)	348.0
19	CIVIL AIR PATROL	323.7
20a	MISSISSIPPI ARMY NATIONAL GUARD	329.9
20b	MISSISSIPPI ARMY NATIONAL GUARD	329.9
20c	MISSISSIPPI ARMY NATIONAL GUARD	320.0
21	TRAILER	328.4

NOTE: *BUILDING TO BE REMOVED OR RELOCATED
NOTE: ALL BUILDING TOP ELEVATIONS ARE ESTIMATED

BLDG. NO.	DESCRIPTION	± TOP ELEV.
A	80'x80' HANGAR (14)	348.5
B	100'x100' HANGAR (8)	350.5
C	200'x100' HANGAR	350.5

NOTE: FUTURE BUILDING ELEVATIONS ARE ESTIMATED USING HIGHEST GROUND ELEVATION IN VICINITY

DISTANCES	RUNWAY 34	RUNWAY 11	RUNWAY 29
TORA	6,400'	6,400'	N/A
TODA	6,400'	6,400'	N/A
ASDA	6,400'	6,400'	N/A
LDA	6,400'	6,400'	N/A

NOTE: NO DECLARED DISTANCES ARE CURRENTLY PUBLISHED FOR EITHER RUNWAY

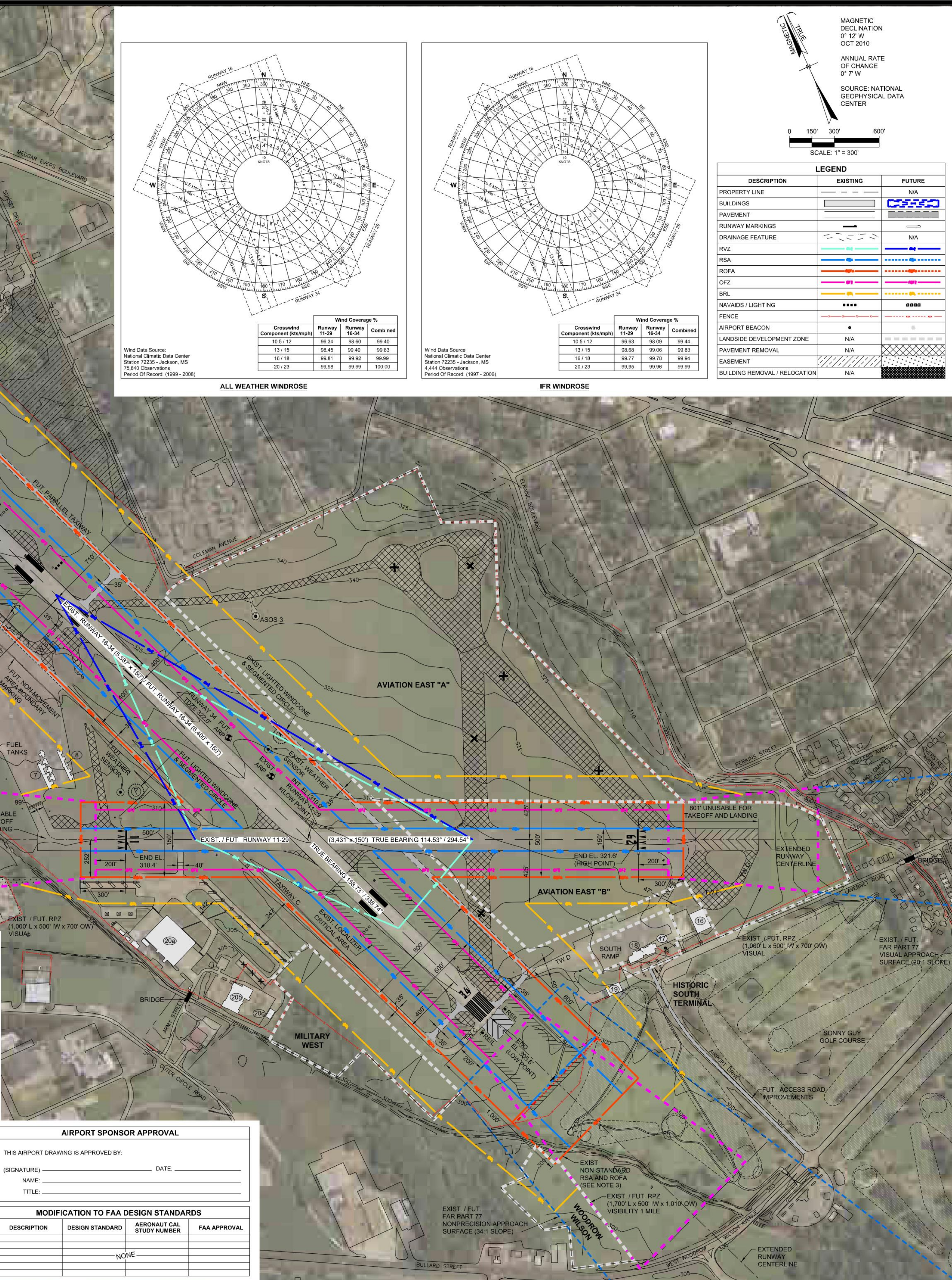
DESCRIPTION	DESIGN STANDARD	NON-STANDARD CONDITION	COMMENTS
RUNWAY 16 RSA	1,000' x 500'	GRADE	SEE NOTE 2
RUNWAY 34 RSA AND ROFA	1,000' x 500'	LENGTH	SEE NOTE 3

DESCRIPTION	EXISTING	FUTURE
AIRPORT ACREAGE	602.29	SAME
SERVICE LEVEL (NPAS)	GENERAL AVIATION	SAME
AIRPORT REFERENCE CODE (ARC)	C-1	SAME
AIRPORT ELEVATION (AMSL)	341.3'	SAME
MEAN MAX. TEMP. (HOTTEST MONTH)	91.4° JULY	SAME
AIRPORT REFERENCE POINT	LATITUDE N 32° 20' 05.197"	N 32° 20' 08.691"
(NAD 83)	LONGITUDE W 90° 13' 21.143"	W 90° 13' 22.919"
MAGNETIC DECLINATION	0° 12' W	SAME
AIRPORT IDENTIFIER	HKS	SAME
TAXIWAY LIGHTING	MITL	MITL
AIRPORT NAVAIDS	BEACON, PAPI, GPS, ILS, LOC, REIL, MALSR	SAME

DESCRIPTION	RUNWAY 11-29		RUNWAY 16-34	
	EXISTING	FUTURE	EXISTING	FUTURE
RUNWAY LENGTH	3,431'	5,367'	1,907'	5,400'
RUNWAY WIDTH	150'	SAME	150'	SAME
RUNWAY WIND COVERAGE % (ALL WEATHER)	96.34%	SAME	96.63%	SAME
TO STRTS / 15MPH	98.45%	SAME	99.40%	SAME
TO STRTS / 18MPH	99.81%	SAME	99.92%	SAME
TO STRTS / 20KTS/HR	99.99%	SAME	99.99%	SAME
AIRPORT REFERENCE CODE	B-1	SAME	C-1	SAME
CRITICAL AIRCRAFT	BEECHCRAFT KING AIR B200GT	SAME	CESSNA CITATION X	SAME
TRUE BEARING	114.53° / 294.54°	SAME	159.73° / 338.74°	SAME
EFFECTIVE GRADE (%)	0.3%	0.7%	0.7%	0.6%
RSA DIMENSIONS (RUNWAY END)	300' x 500'	SAME	600' x 500' (SEE NOTE 3)	SAME
ROFA DIMENSIONS (RUNWAY END)	300' x 500'	SAME	600' x 800' (SEE NOTE 3)	SAME
OFZ DIMENSIONS (RUNWAY END)	200' x 400'	SAME	200' x 400'	SAME
RUNWAY LIGHTING	MITL	SAME	MITL	SAME
PAVEMENT STRENGTH	31,000*	SAME	31,000*	SAME
SINGLE WHEEL GEAR (LBS)	40,000	SAME	31,000*	SAME
DUAL WHEEL GEAR (LBS)	80,000	SAME	97,000*	SAME
DUAL TANDEM WHEEL GEAR (LBS)	99,999	SAME	99,999	SAME
SURFACE COMPOSITION	CONCRETE	SAME	ASPHALT/GROOVED	SAME
PRIMARY SURFACE WIDTH (FAR PART 77)	500'	SAME	500'	SAME

APPROACH CATEGORY	RUNWAY 11		RUNWAY 29		RUNWAY 16		RUNWAY 34		
	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	
APPROACH SURFACE SLOPE	20:1	SAME	20:1	SAME	50:1	SAME	34:1	SAME	
THRESHOLD SETTING SURFACE	20:1	SAME	20:1	SAME	50:1	SAME	34:1	SAME	
APPROACH MINIMUMS	SAME	SAME	SAME	SAME	1/2 MILE	SAME	1 MILE	SAME	
TYPE OF APPROACH TO RUNWAY END	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	
RUNWAY END COORDINATES	LATITUDE (NAD 83) N 32° 20' 05.387"	SAME	N 32° 19' 51.293"	SAME	N 32° 20' 34.401"	SAME	N 32° 19' 44.727"	SAME	
	LONGITUDE (NAD 83) W 90° 13' 33.537"	SAME	W 90° 13' 36.216"	SAME	W 90° 13' 40.688"	SAME	W 90° 13' 13.852"	SAME	
	RUNWAY END ELEVATION (NAVD 88)	310.4'	321.6'	341.3'	341.3'	341.3'	305.6'	341.3'	
	TOUCHDOWN ZONE ELEVATION (NAVD 88)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	RUNWAY MARKINGS	BASIC	BASIC	PRECISION	PRECISION	NON-PRECISION	NON-PRECISION	SAME	
	NAVAIDS	NONE	NONE	NONE	NONE	MALSR PAPI, ILS, GPS	REIL, GPS	REIL, GPS, PAPI	
	RUNWAY PROTECTION ZONE:								
	LENGTH	1,000'	SAME	1,000'	SAME	1,000'	SAME	1,700'	SAME
	INNER WIDTH	500'	SAME	500'	SAME	1,000'	SAME	500'	SAME
	OUTER WIDTH	700'	SAME	700'	SAME	1,700'	SAME	1,010'	SAME
	ACRES	13.77	SAME	13.77	SAME	78.91	SAME	29.46	SAME
	DISPLACED THRESHOLD COORDINATES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LATITUDE (NAD 83)	N/A	N/A	N/A	N/A	N 32° 20' 39.152"	N/A	N/A	N/A
	LONGITUDE (NAD 83)	N/A	N/A	N/A	N/A	W 90° 13' 38.384"	N/A	N/A	N/A
	DISPLACED THRESHOLD ELEVATION	N/A	N/A	N/A	N/A	341.3'	N/A	N/A	N/A
	DISPLACED THRESHOLD DISTANCE	N/A	N/A	N/A	N/A	500'	N/A	N/A	N/A

* PAVEMENT STRENGTHS OBTAINED FROM 1994 GEOTECHNICAL INVESTIGATION



DESCRIPTION	DESIGN STANDARD	AERONAUTICAL STUDY NUMBER	FAA APPROVAL
			NONE

HKS Hawkins Field Airport
Jackson, Hinds County, Mississippi

BWSC BUREAU OF WORKS CONSULTANTS
IN ASSOCIATION WITH:
THE LPA GROUP CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION

Client: **APN**
Project Number: **PL809001**

- NOTES:**
- ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL).
 - EXISTING RSA BEYOND RUNWAY 16 INCLUDES NON-STANDARD GRADE. TO BE GRADED OR CORRECTED IN CONJUNCTION WITH FUTURE EXTENSION OF RUNWAY 16.
 - EXISTING RSA AND ROFA BEYOND RUNWAY 34 EXTEND INTO GOLF COURSE. TO BE CORRECTED THROUGH DECLARED DISTANCES.
 - BUILDING RESTRICTION LINES (BRL) DEPICT THE FOLLOWING:
 - PARALLEL TO RUNWAY 16-34, THE BRL IS BASED ON A TRANSITIONAL SURFACE ELEVATION OF 30'. FUTURE BUILDINGS WITHIN THE BRL WOULD BE CONSTRUCTED SUCH THAT THEY WOULD NOT PENETRATE THE TRANSITIONAL SURFACE.
 - PARALLEL TO RUNWAY 11-29, THE BRL IS BASED ON A TRANSITIONAL SURFACE ELEVATION OF 25'.
 - PAVEMENT REMOVAL SHOWN REPRESENTS DESIRED IMPROVEMENTS TO ENCOURAGE FUTURE DEVELOPMENT AND PREVENT RUNWAY INCURSIONS IN ACCORDANCE WITH FAA ENGINEERING BRIEF NO. 75. INCORPORATION OF RUNWAY INCURSION PREVENTION INTO TAXIWAY AND APRON DESIGN.
 - JMAA INTENDS TO KEEP RUNWAY 11-29 OPEN UNTIL REHABILITATION BECOMES NECESSARY, AT WHICH TIME ALL FUNDING MECHANISMS WOULD BE REEVALUATED AND A FINAL DETERMINATION REGARDING THE PRESERVATION OR CLOSURE OF RUNWAY 11-29 WOULD BE MADE. IF RUNWAY 11-29 IS ULTIMATELY CLOSED, THE ASSOCIATED LAND WOULD BECOME AVAILABLE FOR FUTURE AVIATION DEVELOPMENT.

CONSTRUCTION NOTICE REQUIREMENT

TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE FAA AIRPORTS DISTRICT OFFICE PRIOR TO CONSTRUCTION. FAA'S REVIEW TAKES APPROXIMATELY 60 DAYS.

NO.	DESCRIPTION	DATE	BY

AIRPORT LAYOUT PLAN UPDATE

AIRPORT LAYOUT PLAN DRAWING

FAA AIP Project Number: **3-28-0037-041-2008**

Date: **MAY 2011** Division: _____
Scale: (20:42) Sheet Number: _____
Drawing Number: **2**

DRAWN BY: SDW
CHECKED BY: SJM
DATE: 8/11/2016

EJES
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FIRM #: EF-0002603

TAINIA GILBERT
REGISTERED PROFESSIONAL ENGINEER
8-11-16
26522
STATE OF MISSISSIPPI

EXISTING AIRPORT LAYOUT PLAN

REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

BY: _____
DESCRIPTION: _____
DATE: _____



SCALE: NOT TO SCALE

PROJECT NO. J.M.A.A. PROJECT NO.: 009-16
A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO. **3**



LEGEND

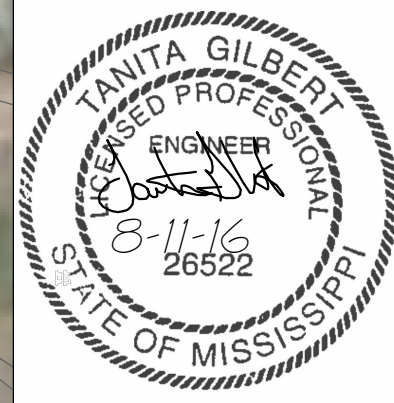
 PROPOSED REHABILITATION
 PROPOSED HAUL ROUTE

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED PROJECT SAFETY PLAN, SHEET 5.
 2. THE CONTRACTOR SHALL BE ADVISED WHICH AREAS WILL BE CLOSED OR ACCESSIBLE WHEN NOTICE TO PROCEED IS ISSUED. BARRICADE PLAN TO BE COORDINATED WITH AIRPORT PERSONNEL AT THE TIME OF CONSTRUCTION FOR EACH PHASE.
 3. ACTIVE TAXIWAYS, RUNWAYS, OR ANY UNPAVED SURFACE AFFECTED DURING CONSTRUCTION SHALL BE SWEEPED DAILY AND DEBRIS CONTINUOUSLY REMOVED FROM THE SURFACE. (NO DIRECT PAY)
 4. GRASSED AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION, DISTURBED BY THE CONTRACTOR, ARE TO BE SHAPED TO ORIGINAL GRADE, SEEDED AND FERTILIZED. (NO DIRECT PAY)
 5. THE CONTRACTOR SHALL CONTACT MISSISSIPPI ONE-CALL (811) AND J.M.A.A. TO VERIFY THE TYPE, LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. EXISTING FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
 6. THE CONTRACTOR'S HAUL ROUTE AND STAGING AREA SHALL BE MAINTAINED AND LEFT IN A CONDITION EQUAL TO OR BETTER THAN ITS CURRENT CONDITION.
 7. HAUL ROUTES ARE AS DESIGNATED ON SHEET 5. ALL VEHICLES AND EQUIPMENT OPERATING ON AIRPORT PROPERTY SHALL BE MARKED WITH THE COMPANY NAME OR LOGO AND LIGHTED WITH YELLOW FLASHING BEACON AND DISPLAY FLAG, REFER TO AC 150/5210-5 FOR DETAILS. THE CONTRACTOR SHALL NOT DEVIATE FROM THE DESIGNATED HAUL ROUTE UNLESS PRIOR APPROVAL IS AUTHORIZED BY AIRPORT MANAGER.
 8. THE CONTRACTOR SHALL STORE MATERIALS IN THE DESIGNATED STAGING AREA SHOWN ON SHEET 5 AND SHALL RESTORE THE AREA TO PRE-CONSTRUCTION CONDITIONS UPON COMPLETION OF WORK.
 9. MATERIALS EXCAVATED OR REMOVED UNDER THIS CONTRACT SHALL BE DISPOSED OF OFF-SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS TASK.
 10. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE DURING CONSTRUCTION.
 11. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.

DRAWN BY: SDW
 CHECKED BY: SJM
 DATE: 8/11/2016

EJES

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 FIRM #: EF-0002603



PROJECT LAYOUT PLAN
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 1"=400'
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
4

SCOPE OF WORK

THIS PROJECT CONSISTS OF THE REHABILITATION OF THE TAXIWAY D WITH 4" BITUMINOUS SURFACE COURSE AND CRUSHED AGGREGATE BASE COURSE, PAVEMENT MARKINGS AND OTHER INCIDENTALS.

GENERAL CONSTRUCTION SAFETY NOTES

ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR 150/5370-2, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION" APPLIES TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE HAWKINS FIELD AIRPORT (HKS).

THE HAWKINS FIELD AIRPORT CONSISTS OF TWO PAVED RUNWAYS AND PAVED TAXIWAY SYSTEM PROVIDING ACCESS. **THE PROPOSED CONSTRUCTION WILL NOT REQUIRE CLOSURE OF RUNWAY 16-34 OR RUNWAY 11-29 FOR THE DURATION OF THE PROJECT.**

TAXIWAYS WILL BE TEMPORARILY CLOSED TO AIRCRAFT TRAFFIC ANYTIME CONSTRUCTION PERSONNEL OR EQUIPMENT ARE WITHIN A TAXIWAY'S RESPECTIVE SAFETY AREA UNLESS OTHERWISE COORDINATED WITH THE AIRPORT MANAGER AND APPROPRIATE RESTRICTIONS ARE FOLLOWED IN ACCORDANCE WITH THE LATEST EDITION OF FAA ADVISORY CIRCULAR 150/5370-2 "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

THE PROJECT DOES NOT INCLUDE WORK WITHIN THE MOVEMENT AREA OF THE AIR OPERATIONS AREA (AOA). THE MOVEMENT AREA IS DEFINED AS THE RUNWAYS, TAXIWAYS, AND OTHER AREAS OF AN AIRPORT THAT AIRCRAFT USE FOR TAXIING, TAKEOFF, AND LANDING EXCLUSIVE OF LOADING RAMPS AND PARKING AREAS, AND THAT ARE UNDER THE CONTROL OF AN AIR TRAFFIC CONTROL TOWER. NO PERSONNEL OR EQUIPMENT SHALL BE WITHIN THE RUNWAY SAFETY AREA WHEN THE RUNWAY IS BEING UTILIZED BY AIRCRAFT. THE RUNWAY AREAS ARE SHOWN ON THE SAFETY PLAN DIAGRAM.

THE OWNER SHALL PROVIDE AN EMERGENCY NOTIFICATION PROCEDURE TO THE CONTRACTOR DURING THE PRECONSTRUCTION MEETING. THE LIST SHALL BE POSTED ON THE CONTRACTOR'S BULLETIN BOARD.

CONTRACTOR RESPONSIBILITIES

CONSTRUCTION SCHEDULING - THE CONTRACTOR IS REQUIRED TO NOTIFY THE AIRPORT MANAGER A MINIMUM OF 7 DAYS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR WILL SUBMIT TO THE AIRPORT MANAGER OR HIS REPRESENTATIVE, FOR APPROVAL, A WEEKLY SCHEDULE OF CONSTRUCTION ACTIVITIES INCLUDING ANTICIPATED TAXIWAY CLOSURES NO LATER THAN THE FRIDAY PRECEDING THE WEEK OF THE SCHEDULE. THIS WILL BE PROVIDED TO THE AIRPORT MANAGER TO HELP ISSUE ALL NECESSARY NOTAMS REGARDING THE CONSTRUCTION ACTIVITIES OCCURRING AROUND THE AIRFIELD AND TO HELP SCHEDULE CLOSURES AS NEEDED. THE WORKING HOURS PROVIDED ON THE SCHEDULE WILL BE APPROVED BY THE AIRPORT MANAGER.

THE CONTRACTOR IS REQUIRED TO PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE AIRPORT MANAGER PRIOR TO CLOSING A TAXIWAY. IT IS THE RESPONSIBILITY OF THE AIRPORT MANAGER TO ISSUE ALL NOTAM'S REQUIRED THROUGHOUT THE CONSTRUCTION OF THE PROJECT. CLOSURE BEGINNING AND ENDING TIMES WILL BE DETERMINED BY THE AIRPORT MANAGER.

THE CONTRACTOR IS REQUIRED TO STAGE HIS PROGRESS IN A MANNER THAT WILL MINIMIZE THE LENGTH OF TIME A TAXIWAY MAY BE CLOSED, TO AVOID DISRUPTION OF NORMAL AIRPORT ACTIVITY, WHILE NOT COMPROMISING SAFETY OF PERSONNEL OR THE QUALITY OF THE PROJECT.

THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT TO THE AIRPORT MANAGER PRIOR TO ISSUANCE OF A NOTICE TO PROCEED.

AIRFIELD SAFETY - THE CONTRACTOR SHALL ENSURE THAT HIS SUPERVISORS AND EMPLOYEES ARE FAMILIAR WITH AIRPORT ACTIVITIES AND OPERATIONS THAT AFFECT THEIR CONSTRUCTION ACTIVITIES AND THAT CONSTRUCTION ACTIVITIES CONFORM TO THE APPLICABLE ROUTINE, EMERGENCY REQUIREMENTS, AND SAFETY GUIDELINES SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND AS DIRECTED BY AIRPORT STAFF. ALL PERSONNEL INVOLVED ON-SITE WITH THE PROJECT MUST COMPLY WITH THE REQUIREMENTS ON THIS SAFETY PLAN. CONTRACTOR'S PERSONNEL WORKING ON SITE MUST RECEIVE TRAINING CONCERNING TRAVELING AND CONSTRUCTION ACTIVITIES IN AIRPORT MOVEMENT AREAS FROM THE AIRPORT MANAGER OR HIS STAFF PRIOR TO WORKING ONSITE. ANYONE WHO MAY BE REQUIRED TO OPERATE A VEHICLE NEAR THE MOVEMENT AREA MUST COMPLETE ANY AIRFIELD DRIVER'S AND AIRPORT FAMILIARIZATION TRAINING REQUIRED BY THE AIRPORT OPERATOR TO PREVENT INADVERTENT ENTRY TO THE MOVEMENT AREA.

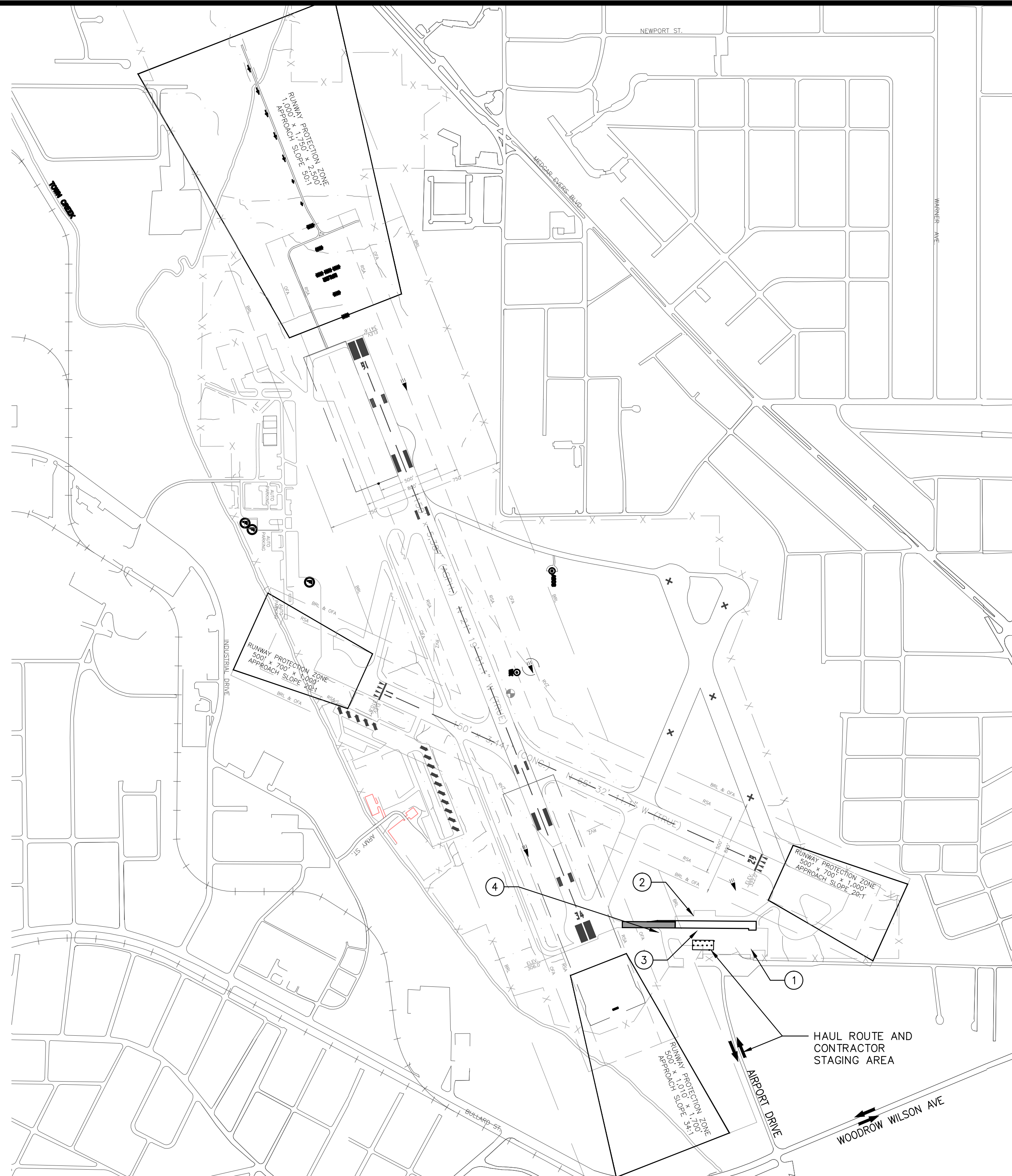
THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON-SITE AND PROVIDE THIS LIST TO THE AIRPORT MANAGER OR HIS REPRESENTATIVE.

THE CONTRACTOR WILL BE REQUIRED FOR EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN ON BOTH SIDES OF THE VEHICLE. EACH VEHICLE WILL DISPLAY EITHER A (3') SQUARE CHECKERED FLAG (INTERNATIONAL ORANGE AND WHITE) OR A FLASHING YELLOW LIGHT APPROVED BY THE AIRPORT MANAGER.

THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE RESTRICTED TO THE CONSTRUCTION LIMITS AND CONTRACTOR'S STAGING AREA. VEHICLES ARE NOT PERMITTED IN THE ACTIVE AIRPORT OPERATIONS AREA (A.O.A) UNLESS ESCORTED BY AN AIRPORT REPRESENTATIVE.

CONTRACTOR PERSONNEL SHALL PLACE ALL PERSONAL VEHICLES, EQUIPMENT, AND STOCKPILED MATERIAL AT THE LOCATION SHOWN ON THE SAFETY PLAN. ONLY VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION WILL BE PERMITTED TO LEAVE THIS AREA.

RADIO CONTROL - THE CONTRACTOR SHALL PROVIDE 2-WAY RADIOS FOR PERSONNEL AND MONITOR HAWKINS FIELD AIRPORT (HKS) GROUND CONTROL (FREQ. XXX.XX) AT ALL TIMES WHEN WORKING ON THE AIRPORT. THE CONTRACTOR SHALL IMMEDIATELY OBEY ALL INSTRUCTIONS TO VACATE THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY AND NOT RESUME WORK IN THE SAFETY AREA UNTIL SO NOTIFIED. FAILURE TO MAINTAIN COMMUNICATION OR TO OBEY INSTRUCTIONS SHALL BE CAUSE FOR SUSPENSION OF THE CONTRACTOR'S OPERATIONS.

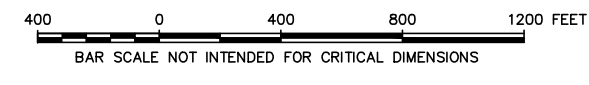


LEGEND

[Symbol]	PROPOSED WORK AREA
[Symbol]	EXISTING BUILDING
[Symbol]	HAUL SITE AND CONTRACTOR STAGE AREA
[Symbol]	PROPOSED HAUL ROUTE
[Symbol]	AIRCRAFT OPERATION AREA
[Symbol]	RUNWAY SAFETY AREA
[Symbol]	OBJECT FREE AREA
[Symbol]	RUNWAY PROTECTION ZONE
[Symbol]	AIRCRAFT PROPERTY LINE
[Symbol]	EXISTING FENCE
[Symbol]	CONTROL POINTS

CONTROL POINTS

NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	DISK	1028961.0200	2332807.3800	316.37
2	3/4" REBAR IN CONCRETE SET	1029241.0100	2332327.3300	311.54
3	PK NAIL	1029114.3500	2332357.3900	312.82
4	3/4" REBAR IN CONCRETE SET	1029101.2500	2332036.1900	308.00



CONTRACTOR RESPONSIBILITIES (CONTINUED)

TRAFFIC CONTROL - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, PLACING, RELOCATING, MAINTAINING, AND REMOVING ALL BARRICADES, AND TRAFFIC CONES IN ACCORDANCE WITH THE CURRENT EDITION OF AC 150/5370-2 AND AS DETAILED ON THESE PLANS TO BE USED TO CONTROL TRAFFIC AND KEEP AIRCRAFT AND GROUND VEHICLES CLEAR OF THE CONSTRUCTION WORK LIMITS.

TYPE II (LOW-PROFILE) BARRICADES SHALL BE USED AND SHALL BE EQUIPPED WITH STEADY-BURN OR FLASHING RED WARNING LIGHTS.

AIRFIELD CONSTRUCTION - THE CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, AND EQUIPMENT FOR ENSURING THAT NO OPEN EXCAVATION REMAIN WITHIN THE RUNWAY AND TAXIWAY AREAS OVERNIGHT OR WHEN WORK AT THE LOCATION IS NOT ON-GOING.

THE CONTRACTOR IS REQUIRED TO LIMIT THE USE OF CONSTRUCTION EQUIPMENT ON PAVEMENTS ADJACENT TO THE PROPOSED IMPROVEMENTS. ONLY EQUIPMENT NEEDED TO COMPLETE THE SPECIFIC WORK WILL BE PERMITTED ON THESE PAVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PAVEMENTS CAUSE BY HIS PERSONNEL OR EQUIPMENT.

THE CONTRACTOR SHALL KEEP THE WORK AREA FREE OF ANY AND ALL DEBRIS (FOD) WHICH MAY CAUSE DAMAGE TO SURROUNDING AIRCRAFT. ANY DAMAGE CAUSED BY CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

APRONS AND TAXIWAYS USED FOR ACCESS SHALL BE SWEEP CLEAN AND DEBRIS PICKED UP AND REMOVED DAILY. FOD ON RUNWAYS AND TAXIWAYS MUST BE REMOVED ON A CONTINUOUS BASIS. THE CONTRACTOR IS REQUIRED TO ALLOW SUFFICIENT TIME PRIOR TO THE ENDING OF THE CLOSURE TIME FOR CURING OF PLACED MATERIALS (AS APPLICABLE) AND CLEAN-UP OF THE WORK AREA.

CLEAN-UP AND RE-VEGETATION OF DISTURBED AREAS SHALL BE PERFORMED AS SOON AS THE WORK IS COMPLETED IN THAT AREA. THE CONTRACTOR SHALL PHASE HIS WORK TO KEEP THE AREA OF CONSTRUCTION ACTIVITIES AS CONFINED AS PRACTICAL.

HAUL ROUTE AND VEHICLE PARKING

THE PROPOSED HAUL ROUTE, VEHICLE PARKING AND EQUIPMENT STORAGE AREAS WILL BE AT THE LOCATIONS SHOWN ON THIS DRAWING. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL PERFORM ANY AND ALL WORK NECESSARY TO RESTORE THE EQUIPMENT STORAGE AREA AND HAUL ROUTE TO ITS PRE-CONSTRUCTION STATE. RESTORATION OF THE EQUIPMENT STORAGE AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

AIRCRAFT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL CLOSE AND SECURELY LOCK THE GATE TO THE HAUL ROUTE AT THE END OF EACH WORKING DAY.

AIRCRAFT OPERATION LINE

THE CONTRACTOR WILL LOCATE AND MARK THIS LINE AT THE START OF CONSTRUCTION. THIS LINE WILL BE THE LIMITS THAT ALL CONTRACTOR PERSONNEL MAY VENTURE WHEN A RUNWAY IS NOT CLOSED. THE CONTRACTOR WILL MAINTAIN THE LINE FOR RUNWAYS THROUGHOUT THE PROJECT AND WILL REMOVE IT AT THE CONCLUSION OF THE PROJECT.

UTILITY NOTE

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAVE BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED.

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WITH UTILITIES IN PROJECT AREA, INCLUDING JMAA AND FAA, REQUESTING THAT LINES AND/OR CONDUITS BE LOCATED AND IDENTIFIED FOR DEPTH. BEFORE EXCAVATION BEGINS THE CONTRACTOR IS REQUIRED TO CONTACT MISSISSIPPI ONE CALL AT 811 OR 1-800-227-6477 FOR UTILITY LOCATION AT LEAST 48 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES OR CABLES WILL BE IMMEDIATELY REPORTED AND REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S OWN EXPENSE.

UTILITY LOCATOR INFORMATION

COUNTYHINDS
 CITYJACKSON, MISSISSIPPI
 ADDRESSHAWKINS FIELD AIRPORT
 558 RAMP ST
 JACKSON, MS 39209

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT IS EXPECTED TO BE 25 FT. (SEMI-TRUCK WITH THE TRAILER IN THE UP POSITION)

EROSION CONTROL

THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND, THEREFORE AN EROSION CONTROL PLAN IS NOT REQUIRED.

ENGINEER'S FIELD OFFICE

AN ENGINEER'S FIELD OFFICE WILL NOT BE REQUIRED FOR THIS PROJECT.

DRAWN BY: SDW
 CHECKED BY: SJM
 DATE: 8/11/2016

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 Enterprise, Suite 500
 Dallas, Texas 75243
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 (7) 214-343-3865
 E.J.E.S., Inc. Copyright © 2002
 FIRM #: EF-0002603

TAINITA GILBERT
 LICENSED PROFESSIONAL
 ENGINEER
 8-11-16
 26522
 STATE OF MISSISSIPPI

PROJECT SAFETY PLAN
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 1" = 600'

PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO.
5

CONSTRUCTION SEQUENCING NOTES PHASE I:

PHASE I INCLUDES CONTRACTOR MOBILIZATION, SETTING UP ACCESS AND STAGING AREA, STOCKPILING MATERIALS AND JOB MIX FORMULA SUBMITTALS.

PHASE I INCLUDES THE REMOVAL OF EXISTING ASPHALT PAVEMENT IN TAXIWAY D.

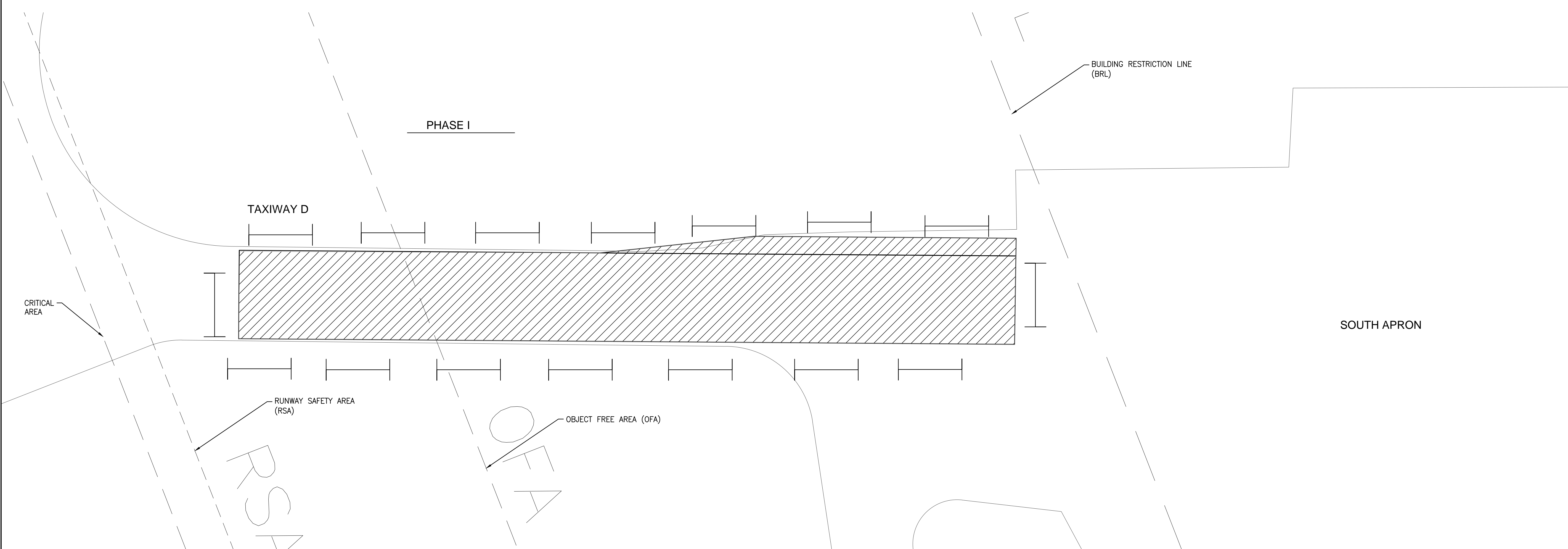
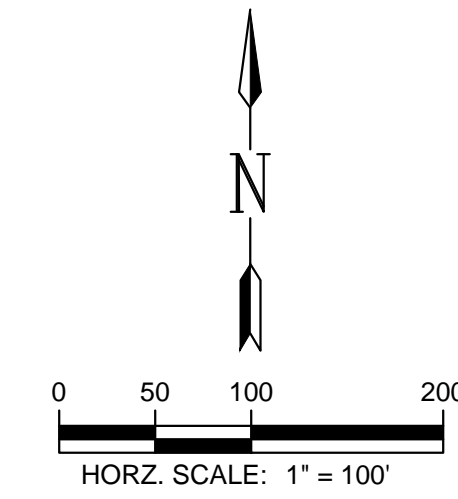
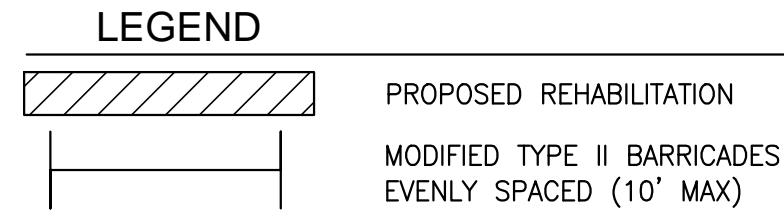
PHASE I SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS ISSUED TO THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AIRPORT MANAGER 7 DAYS IN ADVANCE OF HIS INTENT TO BEGIN THE WORK SO THAT THE AIRPORT MAY ISSUE THE APPROPRIATE NOTIFICATIONS.

AT THE CONCLUSION OF PHASE I, THE WORK SHALL BE INSPECTED BY THE CONTRACTOR, THE ENGINEER, AND THE AIRPORT'S REPRESENTATIVE. WORK SHALL NOT COMMENCE ON PHASE II UNTIL SUCH TIME AS PHASE I CONSTRUCTION IS COMPLETE AND ACCEPTED.

GENERAL NOTES:

1. ALL PERSONNEL AND EQUIPMENT SHALL REMAIN CLEAR OF THE RUNWAY. THE SOUTH APRON SHALL REMAIN OPERATIONAL DURING EACH INDIVIDUAL PHASE.
2. THE CONTRACTOR SHALL UTILIZE THE STAGING AREA AND FOLLOW THE HAUL ROUTE IDENTIFIED IN SHEET 4.
3. IN THE EVENT THAT OTHER CONSTRUCTION PROJECTS ARE IN PROGRESS AT THE TIME OF THIS CONTRACT, THE CONTRACTOR IS REQUIRED TO COOPERATE WITH ALL OTHER CONTRACTORS AND AIRPORT MANAGEMENT IN THE COORDINATION OF THE WORK.
4. AIRPORT MANAGEMENT WILL AT ALL TIMES HAVE JURISDICTION OVER THE SAFETY OF AIR OR GROUND TRAFFIC DURING CONSTRUCTION. WHENEVER THE SAFETY OF AIR OR GROUND TRAFFIC DURING CONSTRUCTION IS CONCERNED, THEIR DECISIONS TO METHODS, PROCEDURES AND MEASURES USED SHALL BE FINAL, AND ANY AND ALL CONTRACTORS PERFORMING WORK MUST BE GOVERNED BY SUCH DECISIONS.
5. THE CONTRACTOR SHALL NOT BE ENTITLED TO COMPENSATION DUE TO DELAYS OR INCONVENIENCES CAUSED BY SAID NECESSARY METHODS, PROCEDURES AND MEASURES TO ACCOMMODATE AIR AND GROUND TRAFFIC.



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 CHECKED BY: SJM
 DATE: 8/11/2016

CONSTRUCTION SEQUENCING PLAN
 REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 1"=100'

PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO.
6

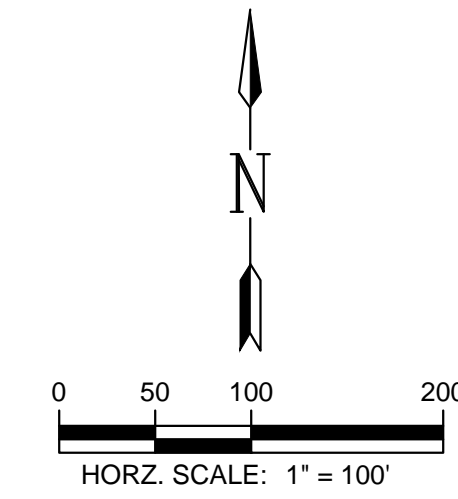
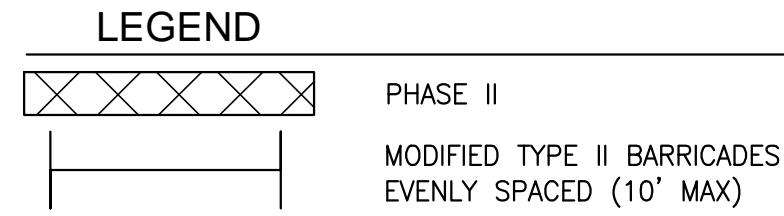
CONSTRUCTION SEQUENCING NOTES PHASE II:

PHASE II INCLUDES THE INSTALLATION OF 4" BITUMINOUS SURFACE COURSE AND CRUSHED AGGREGATE BASE ON TAXIWAY D, THICKNESS VARIES.

PHASE II SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS ISSUED TO THE CONTRACTOR.

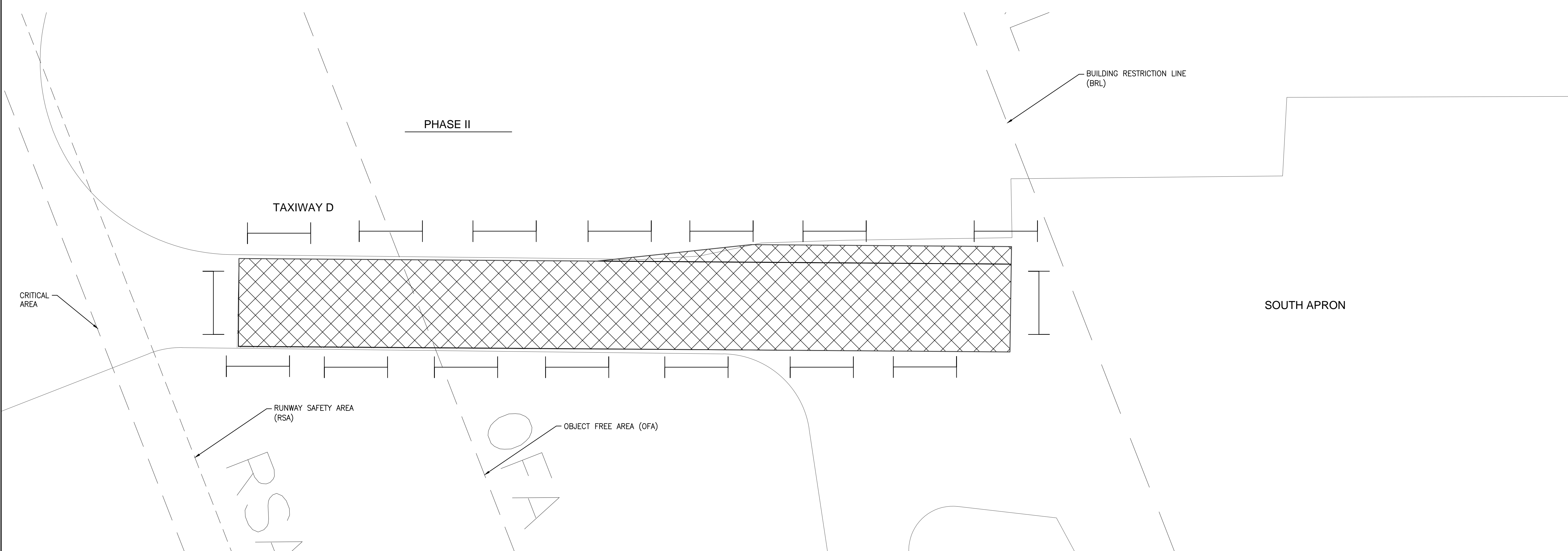
THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AIRPORT MANAGER 7 DAYS IN ADVANCE OF HIS INTENT TO BEGIN THE WORK SO THAT THE AIRPORT MAY ISSUE THE APPROPRIATE NOTIFICATIONS.

AT THE CONCLUSION OF PHASE II, THE WORK SHALL BE INSPECTED BY THE CONTRACTOR, THE ENGINEER, AND THE AIRPORT'S REPRESENTATIVE.



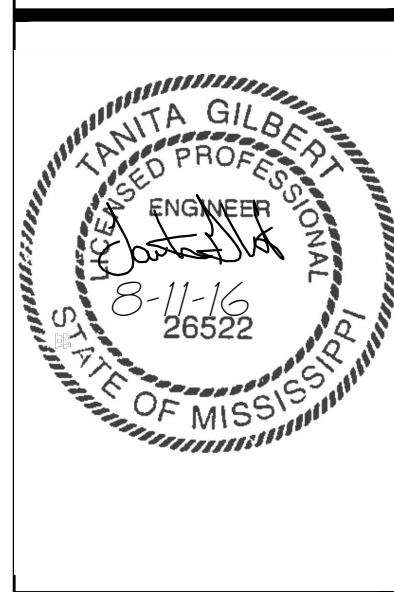
GENERAL NOTES:

1. ALL PERSONNEL AND EQUIPMENT SHALL REMAIN CLEAR OF THE RUNWAY. THE SOUTH APRON SHALL REMAIN OPERATIONAL DURING EACH INDIVIDUAL PHASE.
2. THE CONTRACTOR SHALL UTILIZE THE STAGING AREA AND FOLLOW THE HAUL ROUTE IDENTIFIED IN SHEET 4.
3. IN THE EVENT THAT OTHER CONSTRUCTION PROJECTS ARE IN PROGRESS AT THE TIME OF THIS CONTRACT, THE CONTRACTOR IS REQUIRED TO COOPERATE WITH ALL OTHER CONTRACTORS AND AIRPORT MANAGEMENT IN THE COORDINATION OF THE WORK.
4. AIRPORT MANAGEMENT WILL AT ALL TIMES HAVE JURISDICTION OVER THE SAFETY OF AIR OR GROUND TRAFFIC DURING CONSTRUCTION. WHENEVER THE SAFETY OF AIR OR GROUND TRAFFIC DURING CONSTRUCTION IS CONCERNED, THEIR DECISION AS TO METHODS, PROCEDURES AND MEASURES USED SHALL BE FINAL, AND ANY AND ALL CONTRACTORS PERFORMING WORK MUST BE GOVERNED BY SUCH DECISIONS.
5. THE CONTRACTOR SHALL NOT BE ENTITLED TO COMPENSATION DUE TO DELAYS OR INCONVENIENCES CAUSED BY SAID NECESSARY METHODS, PROCEDURES AND MEASURES TO ACCOMMODATE AIR AND GROUND TRAFFIC.



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 DATE: 8/11/2016

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 FIRM #: EF-0002603



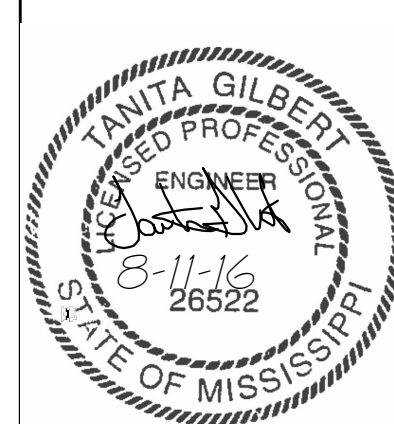
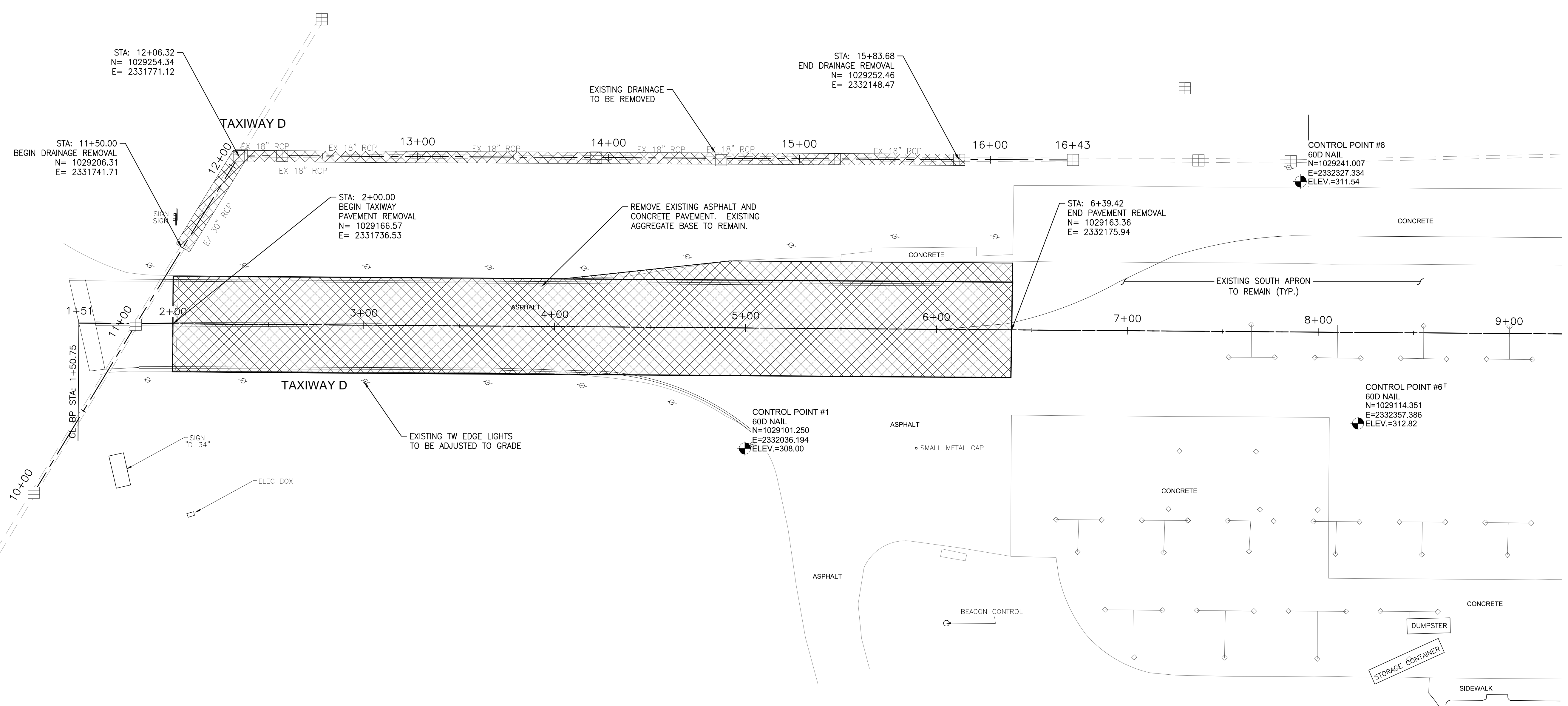
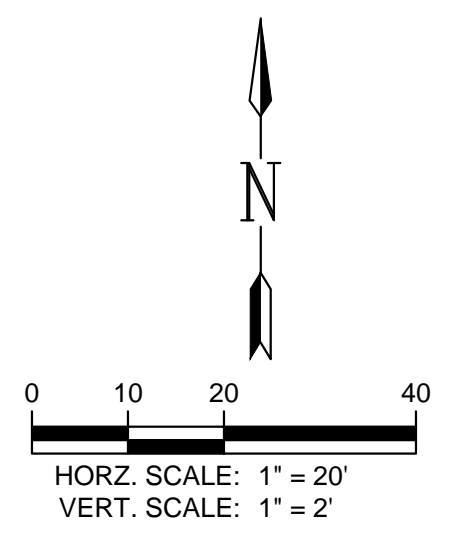
CONSTRUCTION SEQUENCING PLAN
 REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 1"=30'

PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)

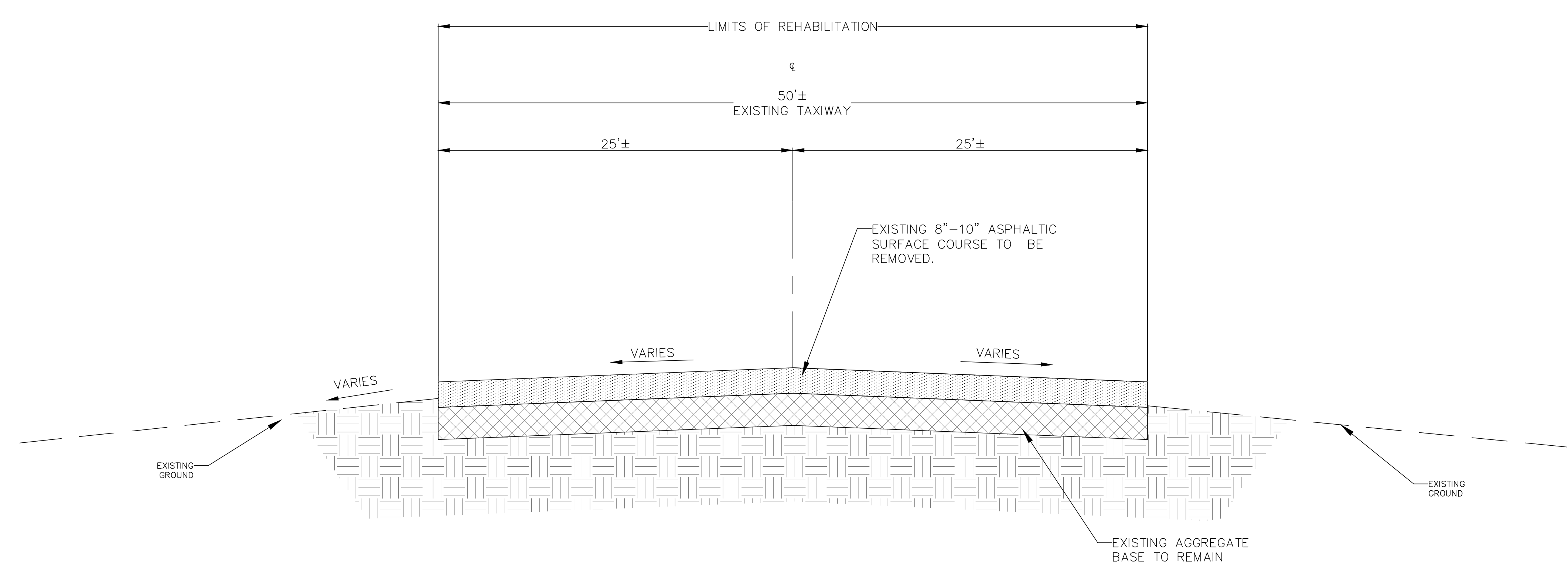
SHEET NO.
 7



DEMOLITION PLAN
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

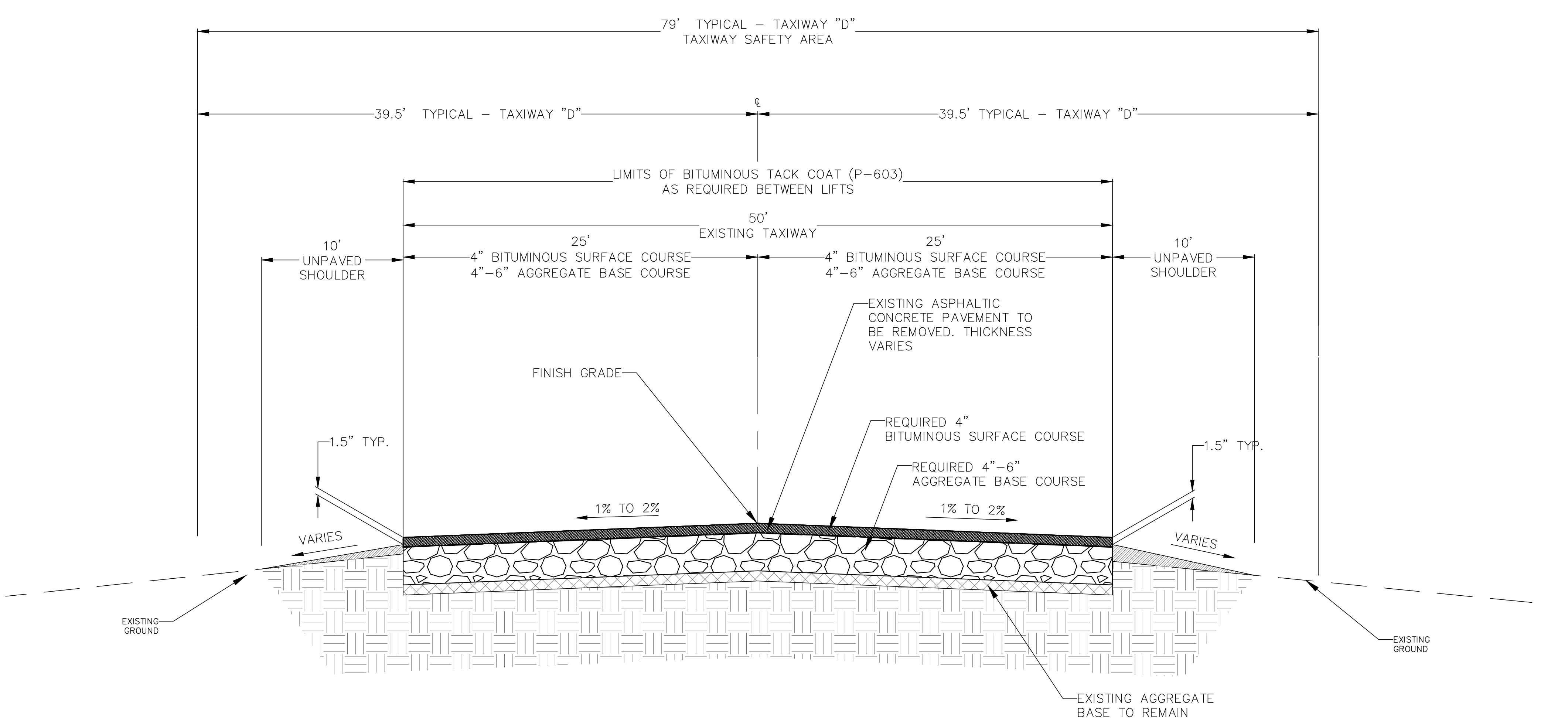
SCALE:
 AS NOTED
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
8



LEGEND

- EXISTING BITUMINOUS PAVEMENT
- EXISTING BASE COURSE

TAXIWAY D - TYPICAL FINISHED SECTION



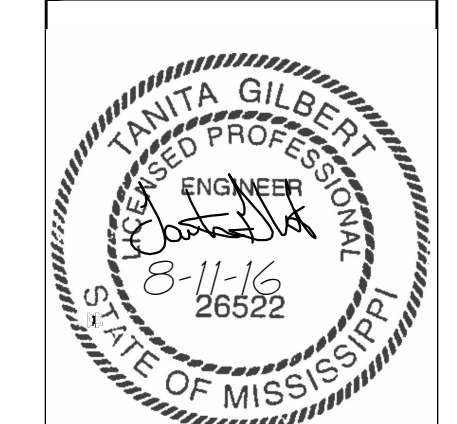
LEGEND

- 4" BITUMINOUS SURFACE COURSE (BITUMINOUS 2.5" MAX LIFT)
- 4"-6" CRUSHED AGGREGATE BASE COURSE
- EXISTING 8"-10" ASPHALTIC SURFACE COURSE TO BE REMOVED
- REQ'D SHOULDER GRADING

TYPICAL SECTION
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

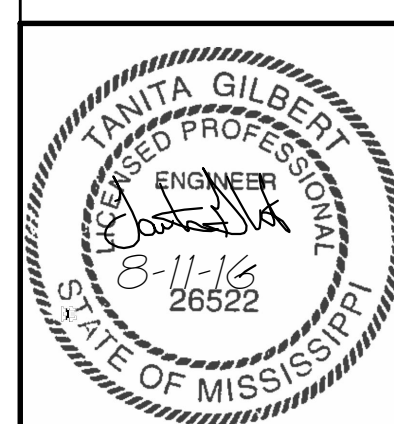
DATE	DESCRIPTION	BY

SCALE:
 1" = 5'
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
9



DRAWN BY: SDW
 CHECKED BY: SJM
 DATE: 8/11/2016

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 JACKSON, MS 39206
 DALLAS, TEXAS 75243
 (714) 801-8888
 (714) 801-1646
 FAX: (714) 801-1646
 FIRM #: EF-0002603



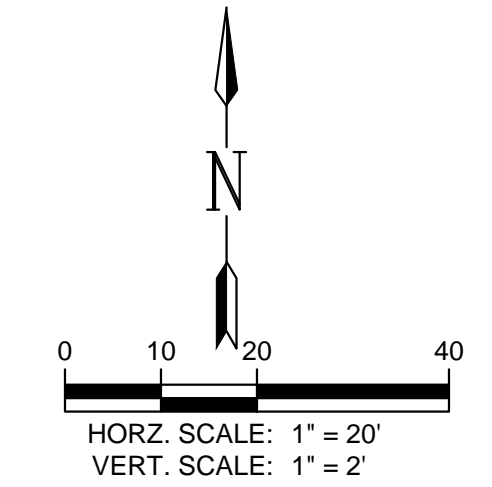
PLAN & PROFILE TAXIWAY D
REHABILITATE TAXIWAY D
 STA: 2+00 TO 6+40
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

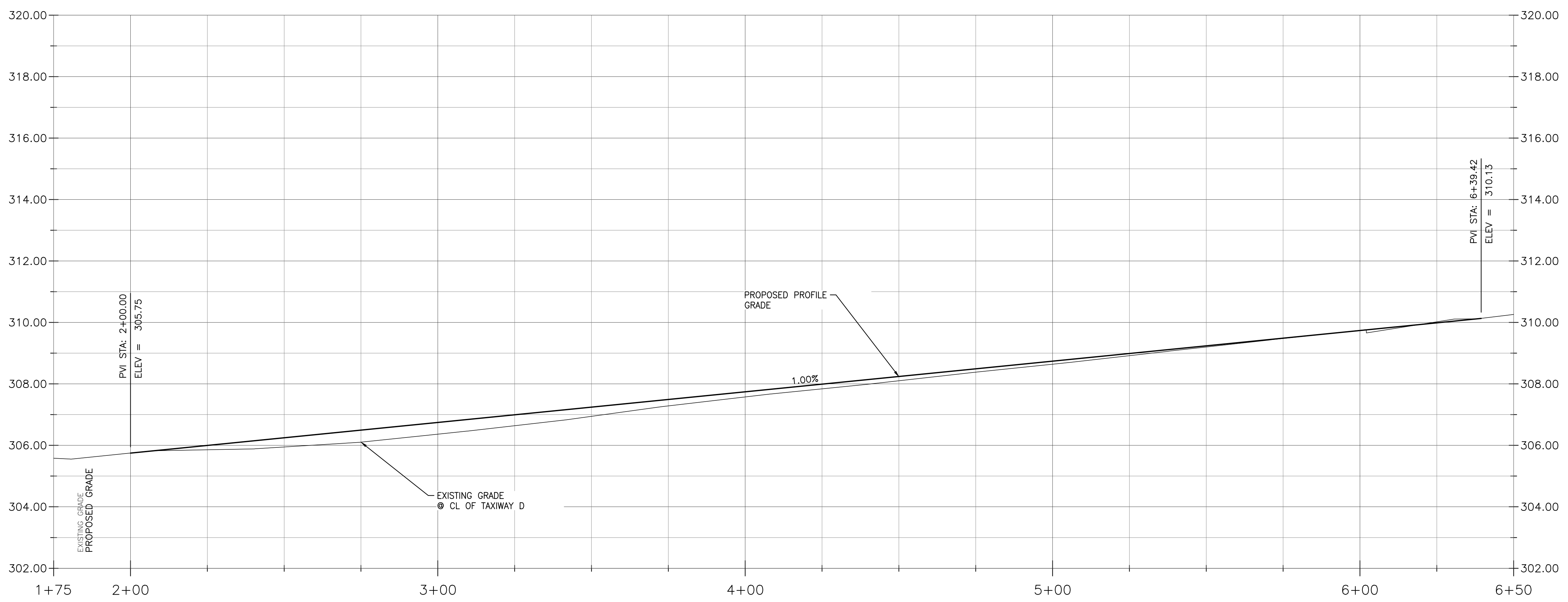
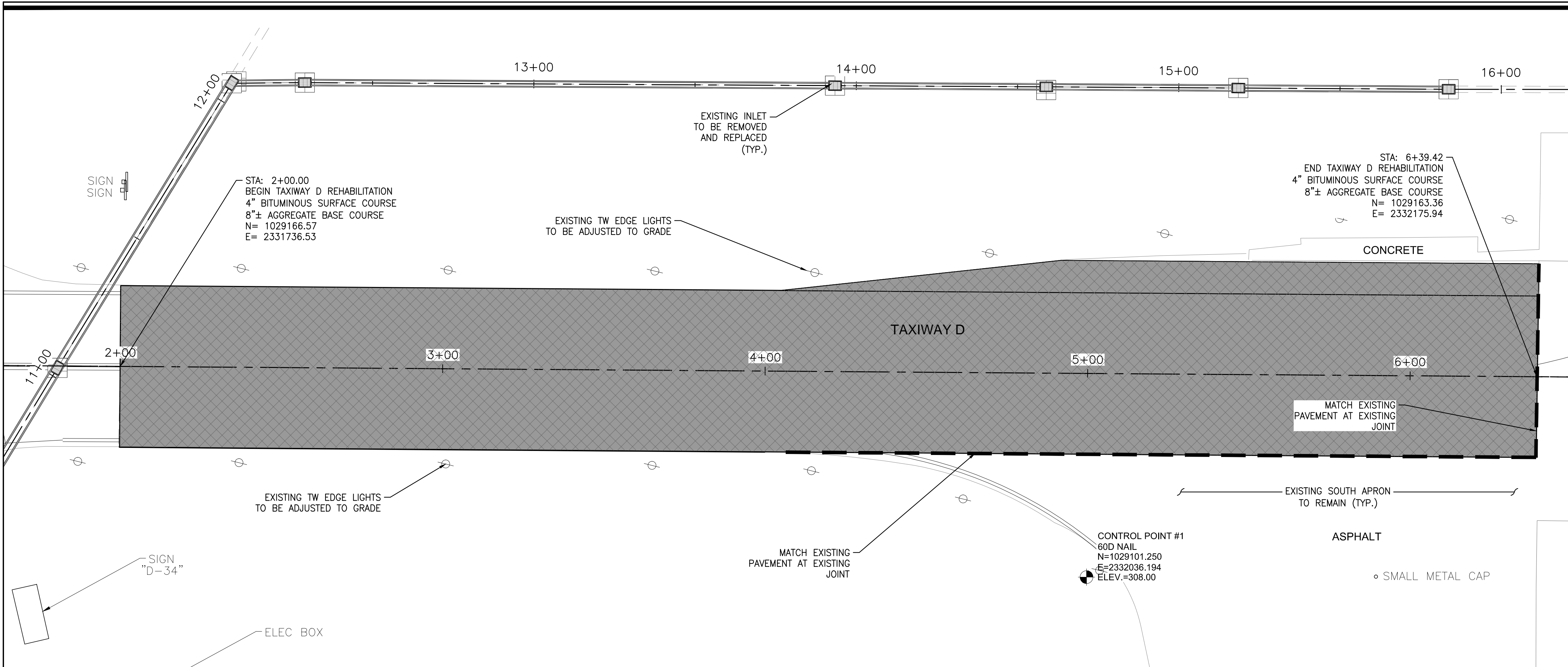
SCALE:
 AS NOTED

PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)

SHEET NO.
10



- LEGEND**
- PROPOSED REHABILITATION
 - REMOVAL OF EXISTING PAVEMENT
 - EXISTING STORM DRAIN LINE
 - EXISTING STOP BAR STRIPPING
 - EXISTING TAXIWAY LIGHTING
 - EXISTING STORM DRAIN INLET
 - EXISTING EDGE OF PAVEMENT OR JOINT
 - EXISTING ELECTRICAL VAULT
 - EXISTING SIGN
 - MATCH EXISTING ELEVATION
 - EXISTING TAXIWAY REFLECTIVE MARKER

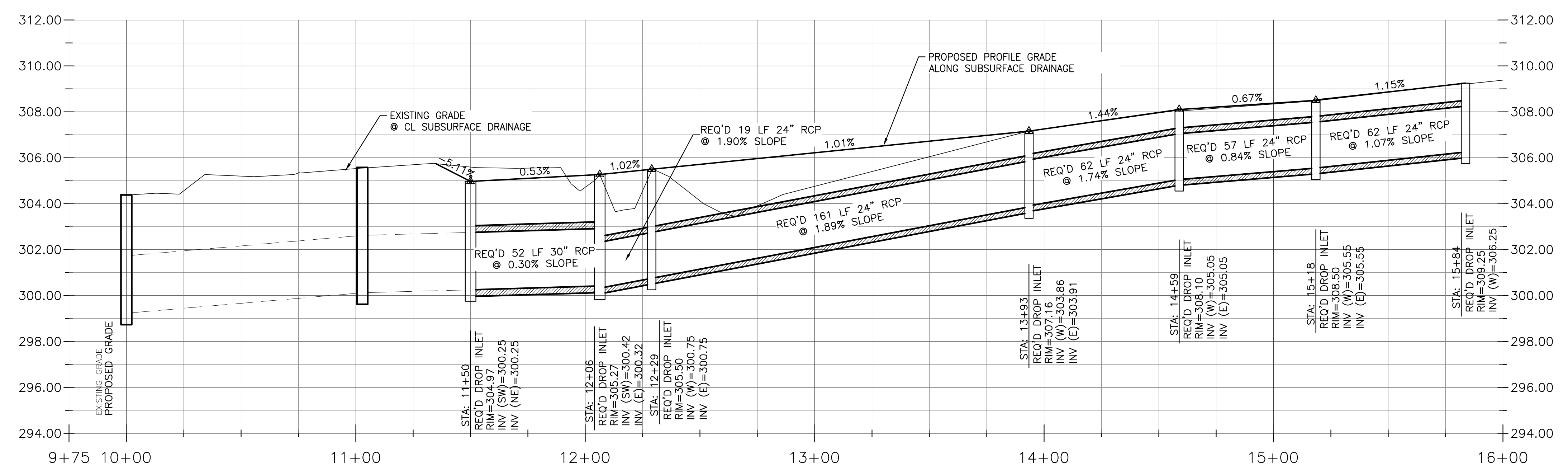
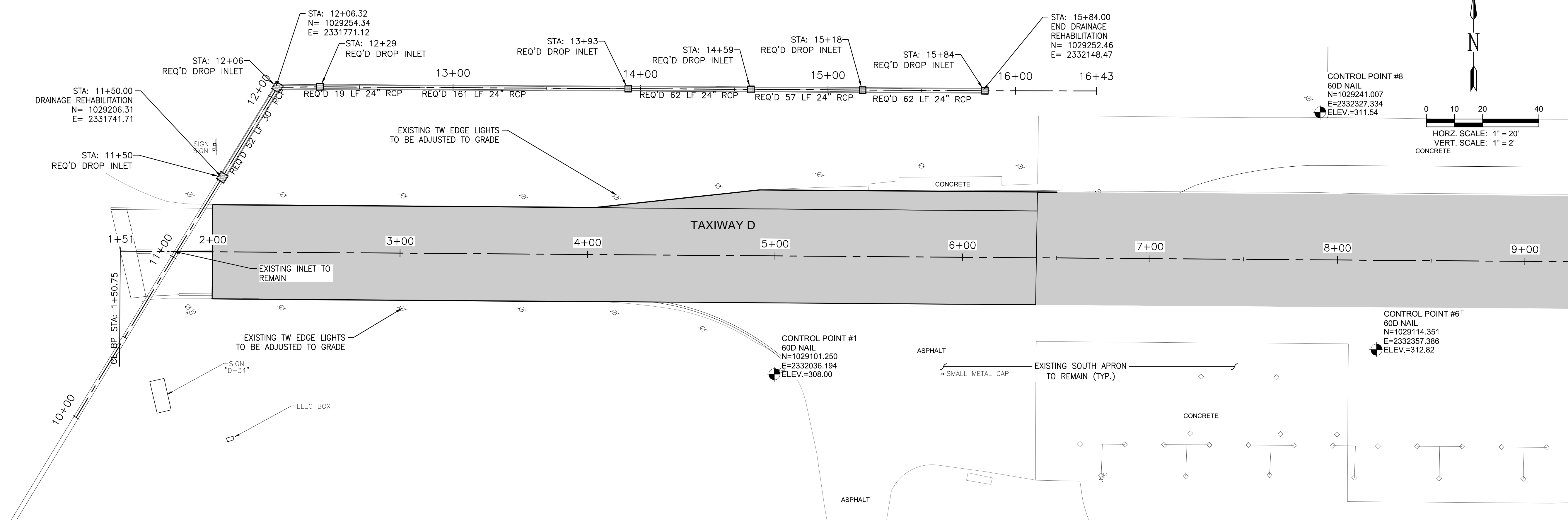


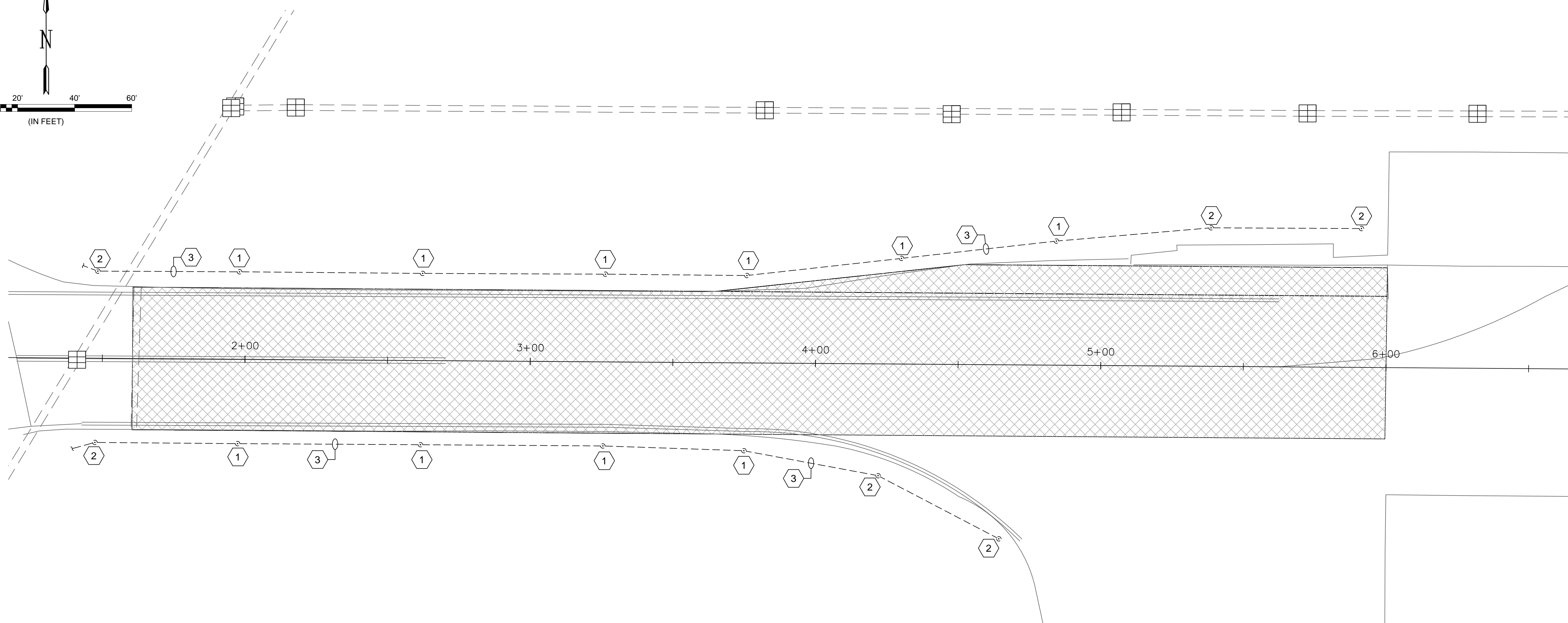
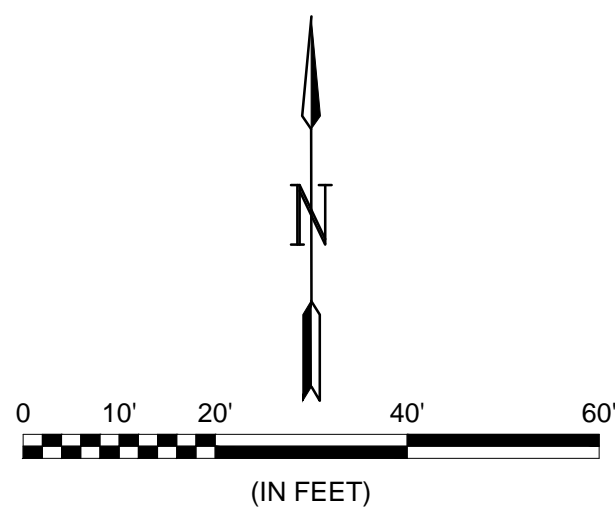


DRAINAGE PLAN & PROFILE
REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 1"=30'
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
11





KEYED NOTES:

- ① ADJUST EXISTING TAXIWAY EDGE LIGHT TO NEW GRADE.
- ② EXISTING TAXIWAY EDGE LIGHT TO REMAIN.
- ③ EXISTING DEB AIRFIELD LIGHTING CABLE TO REMAIN. PROTECT DURING CONSTRUCTION. (TYPICAL)

CONSTRUCTION NOTES:

1. THE EXISTING LOCATIONS OF LIGHTING CABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND IDENTIFYING THE EXISTING LIGHTING CIRCUITS TO DETERMINE THEIR EXACT ROUTING. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEMS IN A WORKING CONDITION UNTIL THE NEW LIGHTING CIRCUITS HAVE BEEN INSTALLED AND TESTED. THE CONTRACTOR SHALL PROACTIVELY AND EXPEDITIOUSLY ACCOMPLISH THIS CABLE IDENTIFICATION WORK PRIOR TO PERFORMING ANY MODIFICATIONS TO THE LIGHTING CIRCUITS. COORDINATE IDENTIFICATION WORK WITH THE OWNER AND ENGINEER AND MAKE ALL CORRECTIONS, ADDITIONS, ETC. ON THE AS-BUILT DRAWINGS.
2. THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WHILE EXCAVATING IN THE AREA OF LIGHTING CIRCUITS. ANY CABLE OR CONDUIT / DUCT WHICH IS NICKED OR DAMAGED DURING EXCAVATION SHALL BE PROPERLY AND EXPEDITIOUSLY SPLICED OR THE LENGTH OF CABLE AND CONDUIT / DUCT REPLACED. A SPLICE OR CONDUIT / DUCT MARKER SHALL BE INSTALLED AT ALL SPLICE OR OTHER REPAIR LOCATIONS MORE THAN 2' AWAY FROM A LIGHT, SIGN, HANDHOLE, MANHOLE, OR JUNCTION STRUCTURE. ALL REPAIR AND / OR REPLACEMENT WORK AND MATERIALS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.
3. THE CONTRACTOR SHALL PERFORM MEGGER TESTS ON EACH EXISTING SERIES CIRCUIT PRIOR TO ANY WORK ON THE ELECTRICAL SYSTEM AND EACH NEW AND EXISTING SERIES CIRCUIT AFTER THE ACCEPTANCE TEST PERIOD. MEGGER TESTING REQUIREMENTS SHALL BE SUBSIDIARY TO AND PAID FOR BY SS-301 PAY ITEMS.
4. THE CONTRACTOR SHALL COORDINATE WITH THE ON-SITE ENGINEER FOR OWNER AND ENGINEER WITNESS OF ALL MEGGER TESTING. THE CONTRACTOR SHALL SUBMIT HIS INITIAL MEGGER TEST REPORTS TO THE OWNER AND ENGINEER PRIOR TO ANY WORK ON THE ELECTRICAL SYSTEM. THIS REPORT SHALL BE APPROVED AND SIGNED BY THE OWNER AND ENGINEER PRIOR TO THE CONTRACTOR PROCEEDING WITH HIS WORK.
5. THE CONTRACTOR SHALL CHECK THE LOAD ON EACH EXISTING REGULATOR PRIOR TO ANY WORK ON THE ELECTRICAL SYSTEM AND ON EACH NEW AND EXISTING REGULATOR AFTER THE ACCEPTANCE TEST PERIOD.
6. THE CONTRACTOR SHALL CALIBRATE EACH NEW AND EXISTING REGULATOR FOLLOWING THE PERFORMED WORK.
7. LOCKOUT / TAGOUT AND CONSTANT CURRENT REGULATOR CALIBRATION PROCEDURES SHALL BE PAID FOR BY SS-300 PAY ITEMS UNLESS OTHERWISE NOTED.
8. DURING CONSTRUCTION, PROTECT ALL EQUIPMENT, DUCTS, CONDUITS, CABLES, ETC. THAT ARE TO REMAIN IN PLACE. WHERE EXISTING ITEMS ARE CUT, BROKEN, OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR PROACTIVELY AND EXPEDITIOUSLY THE ITEMS WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION OR BETTER AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.

CAUTION NOTES:

1. UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.
2. MISSISSIPPI STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE MISSISSIPPI ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-227-6477 OR 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE MISSISSIPPI ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.

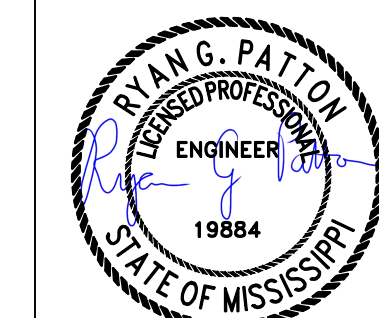
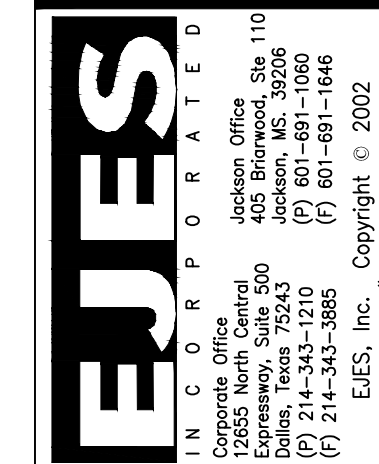
ELECTRICAL SAFETY NOTES:

1. SERIES CIRCUITS CAN BE DANGEROUS AND / OR FATAL.
2. LOCKOUT / TAGOUT PROCEDURES SHALL BE FOLLOWED.
3. LIGHTING REGULATORS SHALL BE TURNED OFF, LOCKED, AND TAGGED OUT OF SERVICE BEFORE ANY WORK IS DONE ON THE SERIES CIRCUIT.
4. THE ELECTRICAL RESISTANCE AND INSULATION INTEGRITY OF EACH MODIFIED CIRCUIT SHALL BE TESTED BEFORE THE CIRCUIT IS ENERGIZED.

SYMBOL ITEM DESCRIPTION

—	NEW EQUIPMENT
—	EXISTING EQUIPMENT
×	EXISTING EQUIPMENT TO BE COMPLETELY DEMOLISHED AND REMOVED, AREA TO BE RESTORED
○	L-861T TAXIWAY EDGE LIGHT
AFG	ABOVE FINISHED GRADE
AOA	AIRCRAFT OPERATIONS AREA
OFA	OBJECT FREE AREA
OFZ	OBSTACLE FREE ZONE
RSA	RUNWAY SAFETY AREA
TSA	TAXIWAY SAFETY AREA
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
UON	UNLESS OTHERWISE NOTED
DEB	DIRECT EARTH BURIED

DRAWN BY: JKS
 CHECKED BY: MCL
 DATE: 8/3/2016



DIGITALLY SIGNED
 08/11/2016

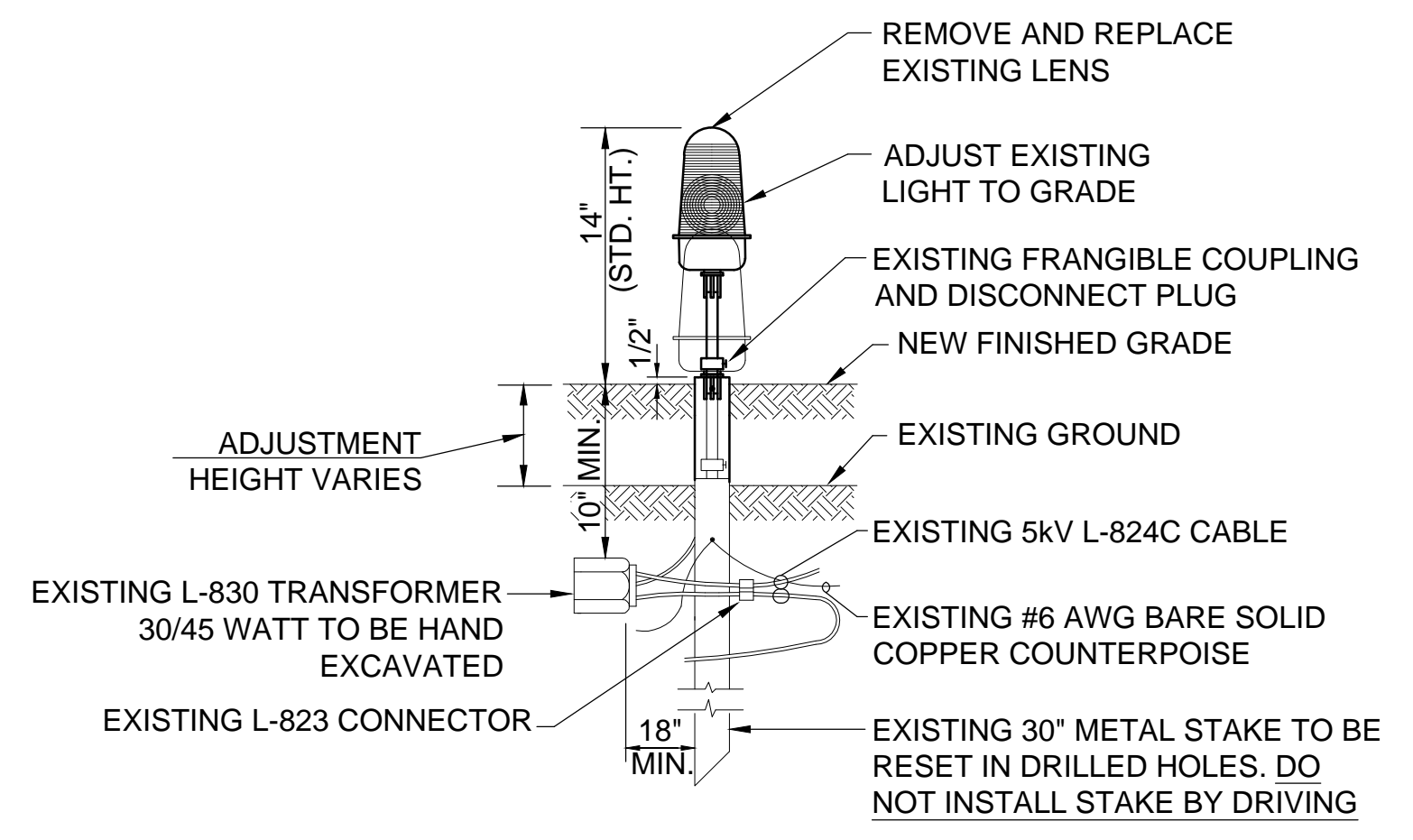
LIGHTING INSTALLATION PLAN
REHABILITATE TAXIWAY D
HAWKINS FIELD AIRPORT
JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 AS NOTED

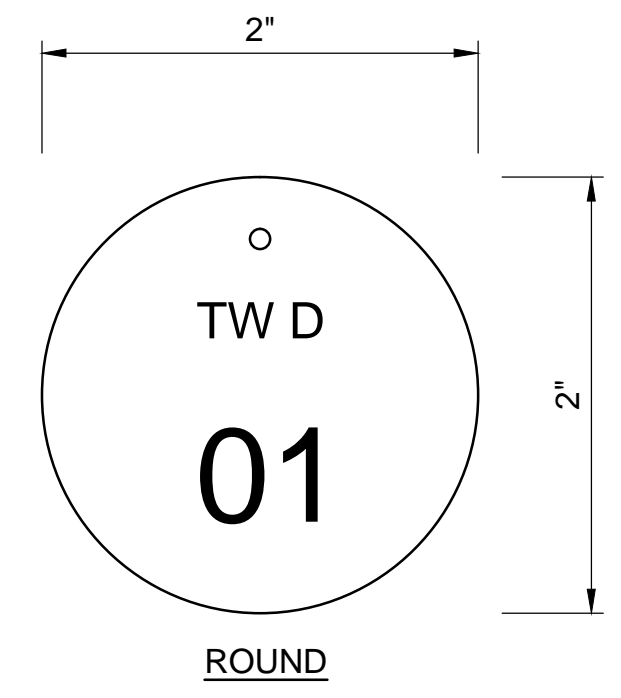
PROJECT NO.
 JMAA NO.: 009-16

SHEET NO.



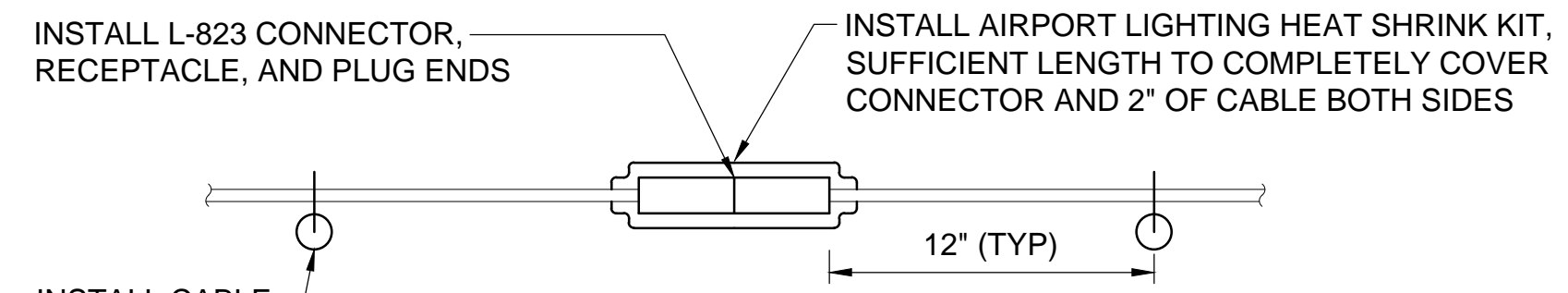
- ADJUSTMENT NOTES:**
- HAND EXCAVATE TO EXPOSE, AS REQUIRED, LIGHTING CABLE AND COUNTERPOISE TO A MAXIMUM OF 3' EACH SIDE OF THE EXISTING EDGE LIGHT.
 - HAND EXCAVATE EXISTING TRANSFORMER AND LEADS, REMOVE LIGHT FIXTURE AND STAKE, AND RESTORE THE NATURAL SOIL DENSITY.
 - REINSTALL LIGHT FIXTURE AND TRANSFORMER PER DETAIL.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE LIGHT ASSEMBLY CAUSED BY THIS WORK.
 - REINSTALL IDENTIFICATION TAG.

1
13 **STAKE MOUNTED EDGE LIGHT ADJUSTMENT**
 SCALE: NONE



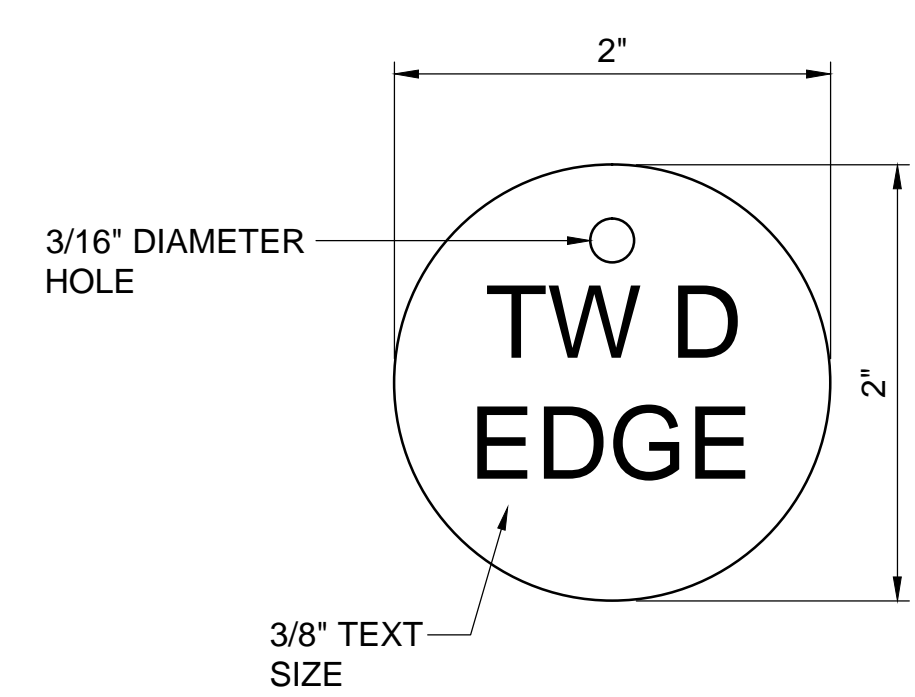
- LIGHT TAG NOTES:**
- INSTALL FIXTURE SO NUMBERING TAG AND SET SCREW FACE PAVEMENT EDGE. NUMBERING TAG SHALL HAVE A 3/16" TOP HOLE FOR SECURING VIA FIXTURE SET SCREW.
 - PROVIDE WEATHER AND CORROSION RESISTANT BRASS TAGS WITH BLACK FILLED 1/4" TALL CIRCUIT IDENTIFICATION AND LETTERS / NUMBERS AND 1/2" TALL TAG NUMBERS. PROVIDE ROUND TAGS AS INDICATED BY ENGINEER.
 - TAGS SHALL BE INSTALLED SEQUENTIALLY ALONG THE PATH OF THE TAXIWAY / RUNWAY CIRCUIT IN THE ORDER THAT THE SERIES CIRCUIT CABLE IS CONNECTED. NEW CIRCUIT ID TAG NUMBERING SHALL ORIGINATE AT THE FIRST AIRFIELD EQUIPMENT FIXTURE AS THE CIRCUIT LEAVES THE AIRFIELD ELECTRICAL VAULT.
 - LIGHT FIXTURES, GUIDANCE SIGNS, ETC. ALL ON THE SAME CIRCUIT SHALL BE NUMBERED IN THE SAME SEQUENTIAL FASHION.
 - TAXIWAY LIGHT IDENTIFICATION TAGS ARE REQUIRED FOR THE FOLLOWING TAXIWAY CIRCUITS:
 A. TAXIWAY A: "TW D", "01-10"

2
13 **AIRFIELD EQUIPMENT IDENTIFICATION TAG**
 SCALE: NONE



- CONNECTOR NOTES:**
- IN-LINE CONNECTIONS OR SPLICES OF UNDERGROUND CABLES WITHIN MANHOLES, HANDHOLES, LIGHT BASES, OR OTHER ACCESSIBLE LOCATIONS SHALL BE MADE USING L-823 CONNECTOR KITS.
 - PROVIDE CABLE IN CONTINUOUS LENGTHS FOR HOME RUNS OR OTHER LONG CABLE RUNS WITHOUT CONNECTIONS, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER OR SHOWN ON THE PLANS.
 - INSTALL 1-PIECE HEAT SHRINK KIT ON PRIMARY CABLE CONNECTORS.
 - DO NOT INSTALL HEAT SHRINK ON SECONDARY CABLE CONNECTORS OF THE ISOLATION TRANSFORMERS.

3
13 **L-823 CONNECTOR INSTALLATION FOR DIRECT EARTH BURIAL**
 SCALE: NONE



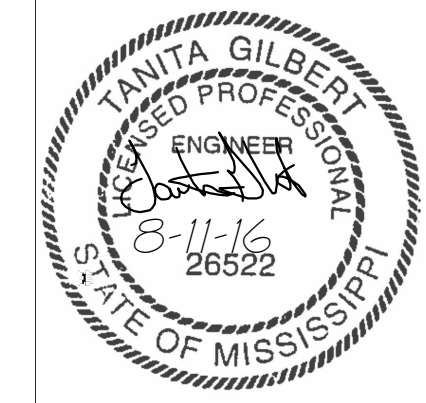
- CABLE TAG NOTES:**
- ALL CABLES SHALL BE IDENTIFIED. INSTALL CABLE TAGS IN ALL ACCESSIBLE LOCATIONS INCLUDING JUNCTION BOXES, PULL BOXES, MANHOLES, HANDHOLES, AND LIGHT BASES.
 - INSTALL CABLE TAGS 12" FROM THE L-823 CONNECTORS. IF NO CONNECTORS ARE REQUIRED, INSTALL A CABLE TAG NEAR EACH CABLE ENTRANCE VIA DUCT OR CONDUIT.
 - CABLE IDENTIFICATION TAGS SHALL BE MADE FROM A NON-CORROSIVE STAINLESS STEEL MATERIAL WITH THE CIRCUIT AND / OR LOOP IDENTIFICATION NUMBER STAMPED OR ETCHED ONTO THE TAG.
 - TAGS SHALL BE CIRCULAR IN SHAPE, 2-INCH MINIMUM DIAMETER AND 20 GAUGE NON-CORROSIVE STAINLESS STEEL MATERIAL.
 - SECURE EACH TAG TO THE CABLE USING WEATHER AND ULTRAVIOLET RESISTANT NYLON CABLE TIES.
 - TAG IDENTIFICATION TEXT SHALL BE COORDINATED WITH THE OWNER AND THE ENGINEER DURING SUBMITTALS PRIOR TO THE WORK.

4
13 **TYPICAL CABLE TAG**
 SCALE: NONE

DATE	DESCRIPTION	BY

DRAWN BY: SDW
 CHECKED BY: SJM
 DATE: 8/11/2016

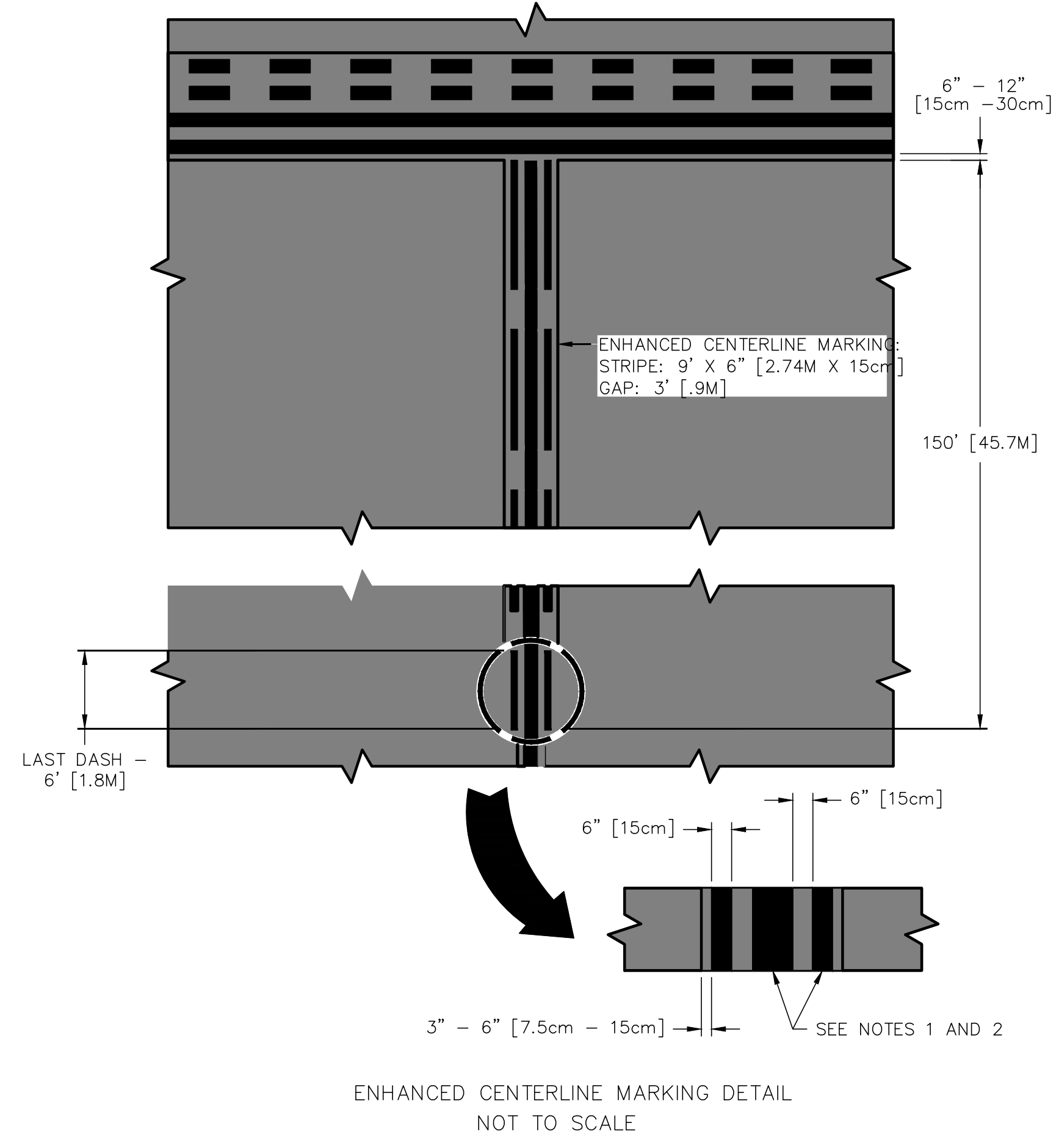
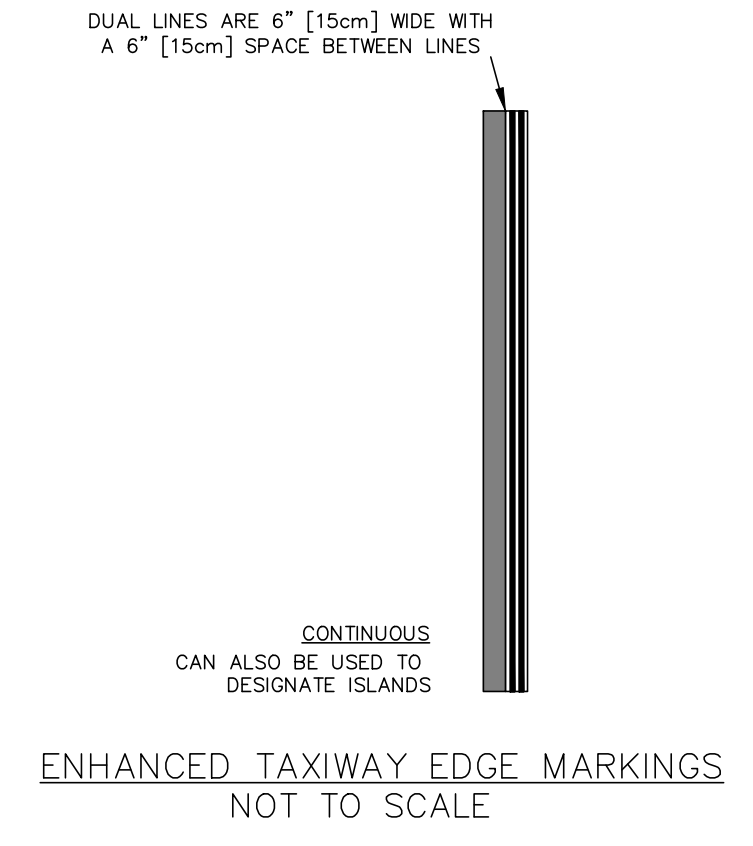
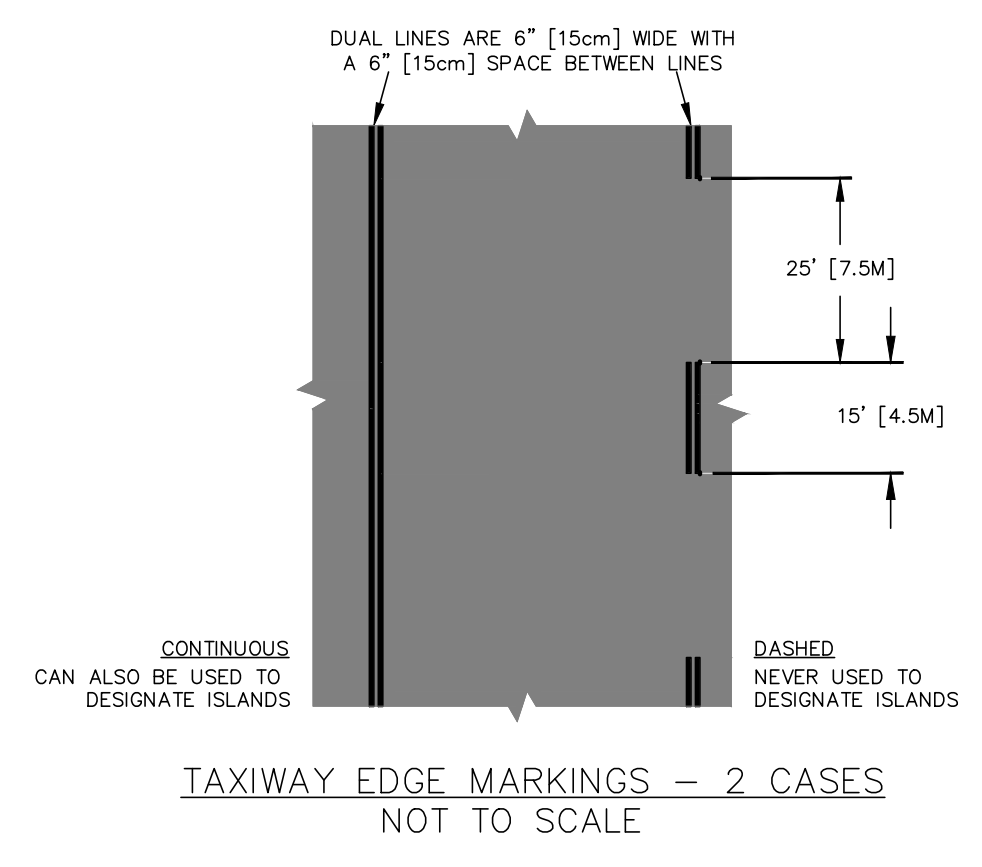
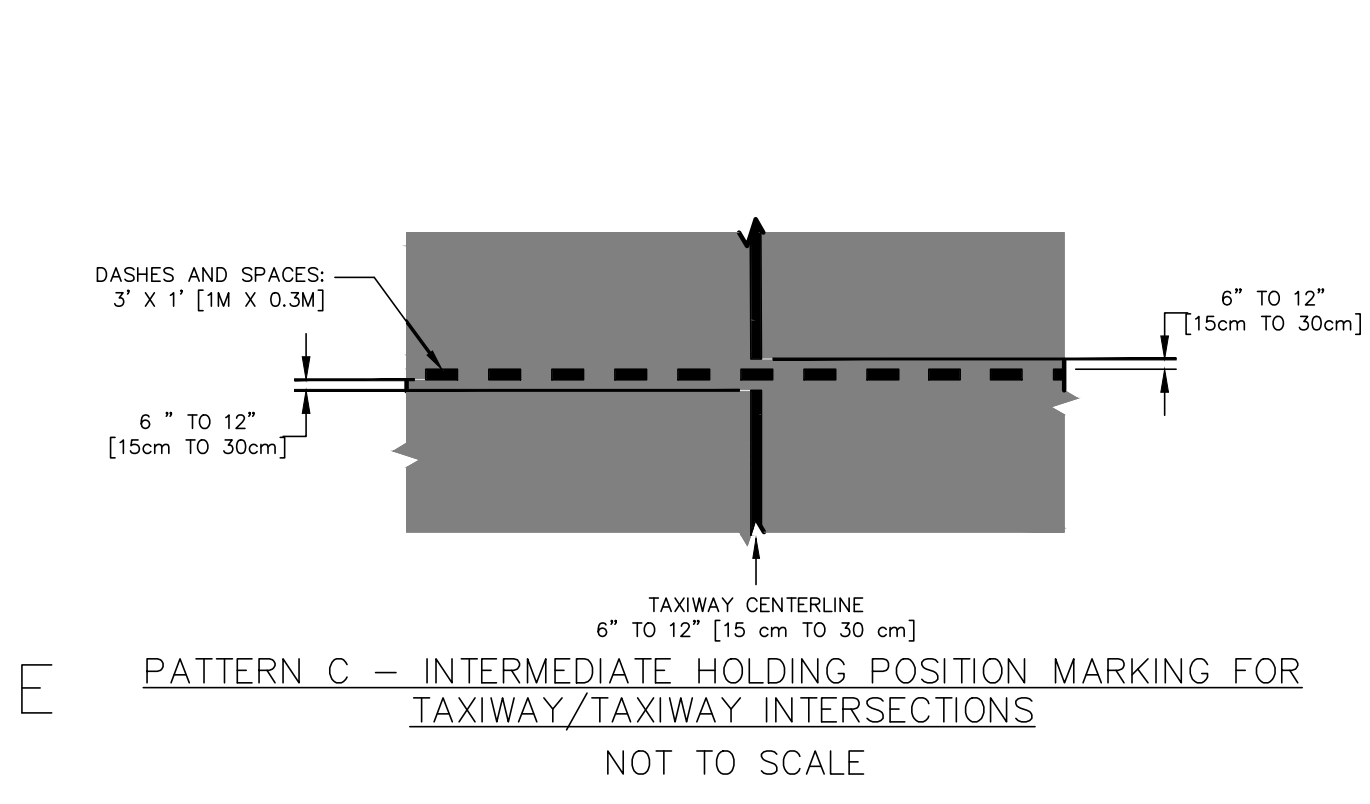
EJES
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 Jackson, Mississippi
 12655 North Central
 Expressway, Suite 500
 Jackson, Mississippi 39211
 (P) 601-691-1000
 (F) 601-691-1646
 (F) 214-343-3885
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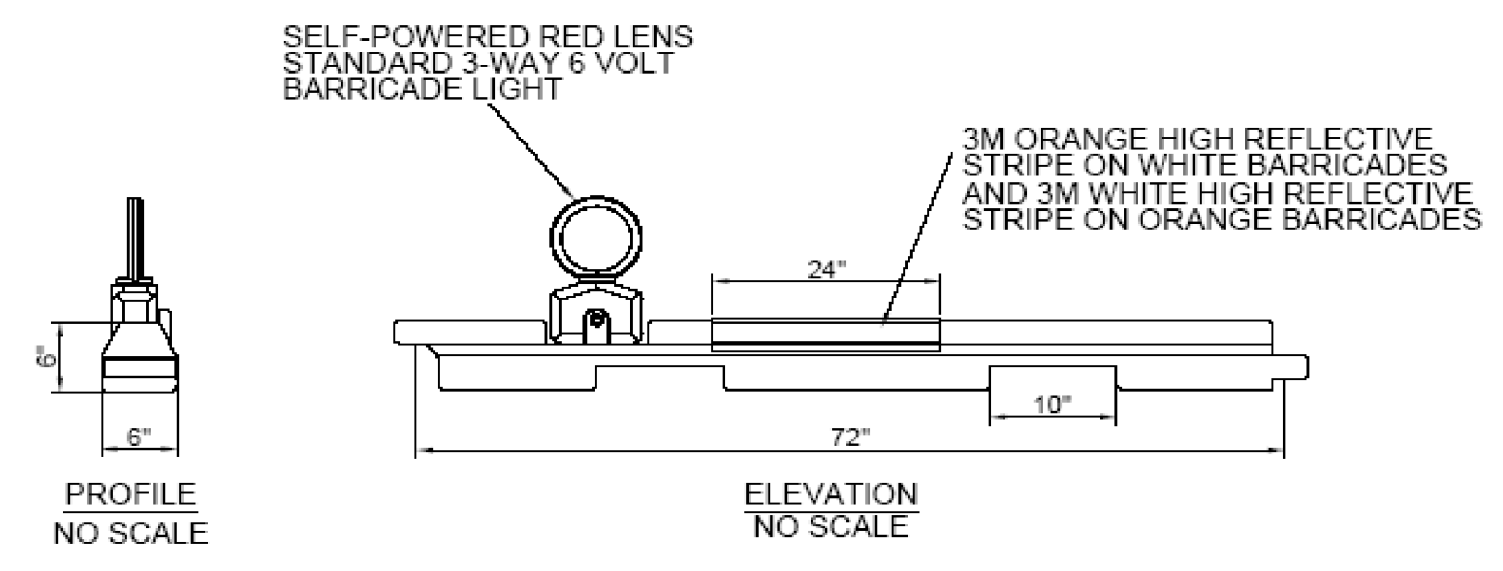
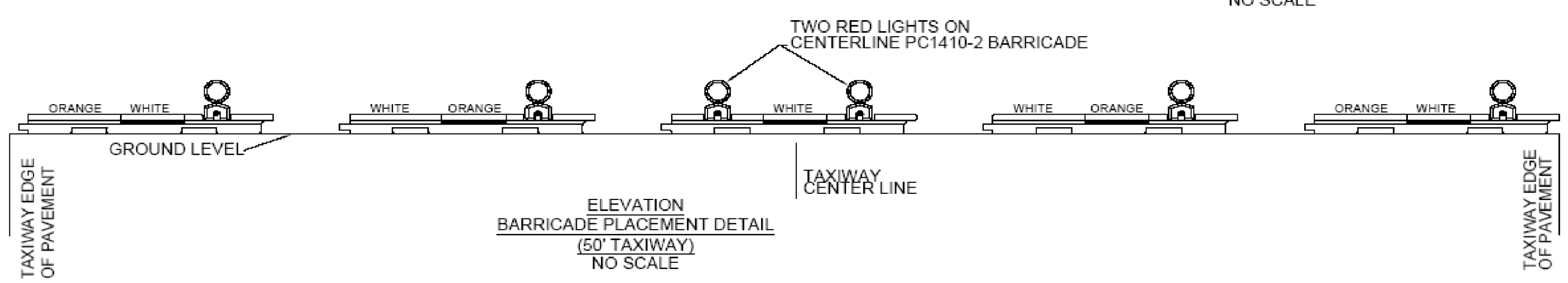
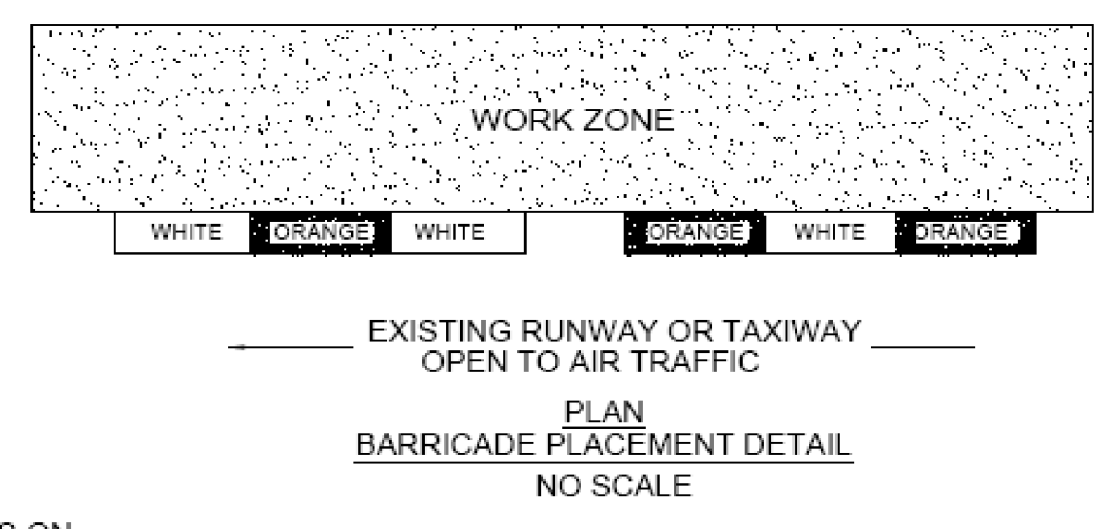
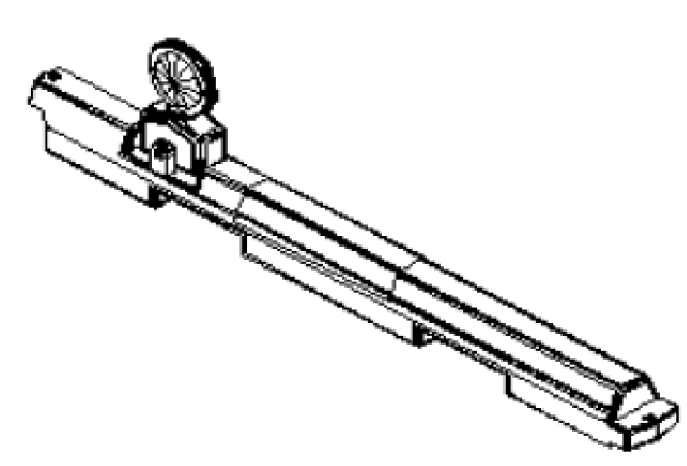
MISCELLANEOUS DETAILS
 REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI

DATE	DESCRIPTION	BY

SCALE:
 AS NOTED
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
 14

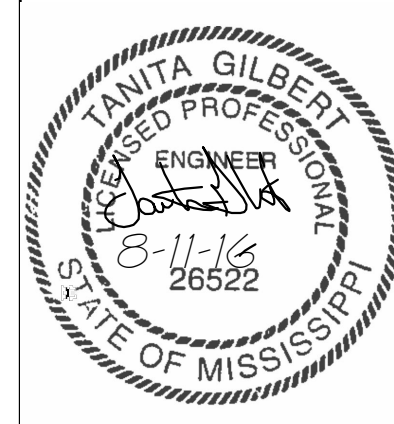
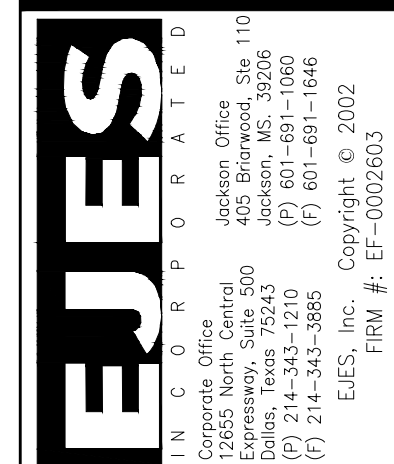


- NOTES:
- DASHED LINES FOR THE ENHANCED TAXIWAY CENTERLINE MARKING ARE 6" [15cm] IN WIDTH AND SEPARATED 6" [15cm] FROM THE TAXIWAY CENTERLINE. THIS APPLIES TO BOTH 6" [15 cm] AND 12" [30 cm] TAXIWAY CENTERLINE MARKINGS.
 - THE TAXIWAY CENTERLINE MARKINGS MAY BE SHIFTED LEFT OR RIGHT TO AVOID INTERFERENCE WITH THE TAXIWAY CENTERLINE LIGHTS.

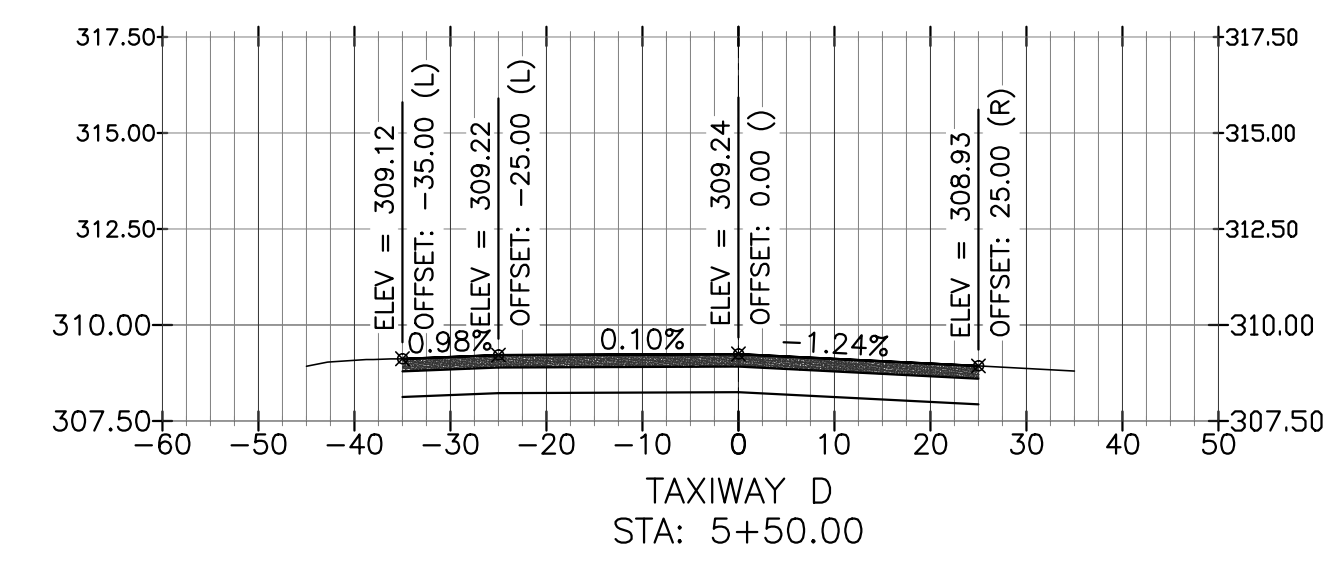
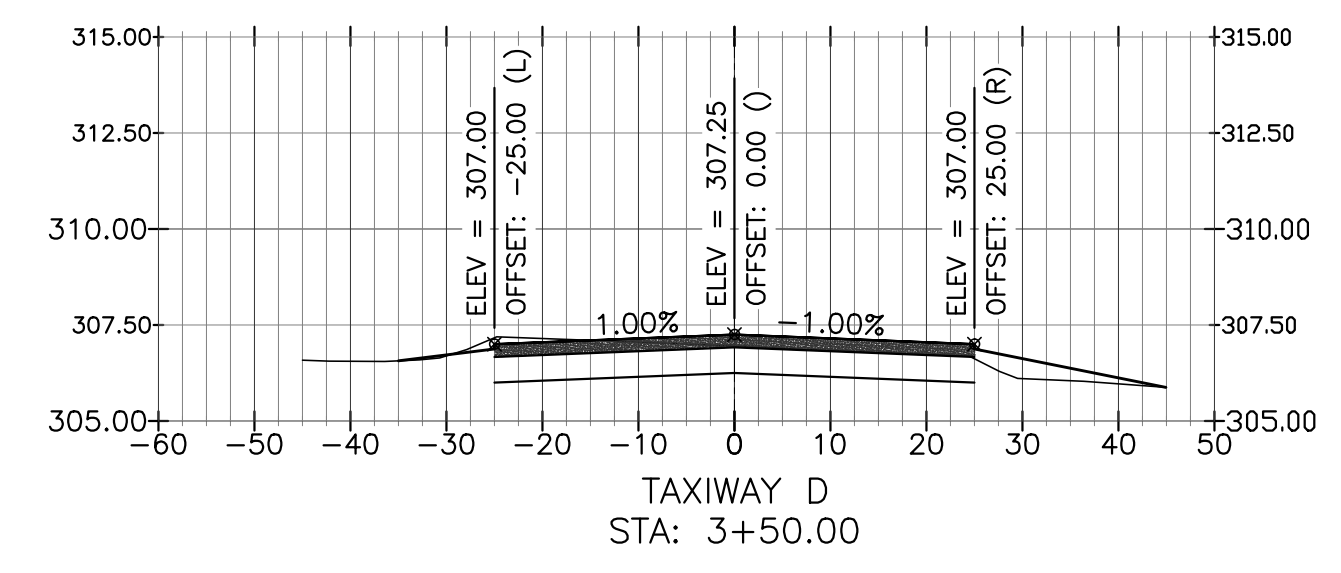
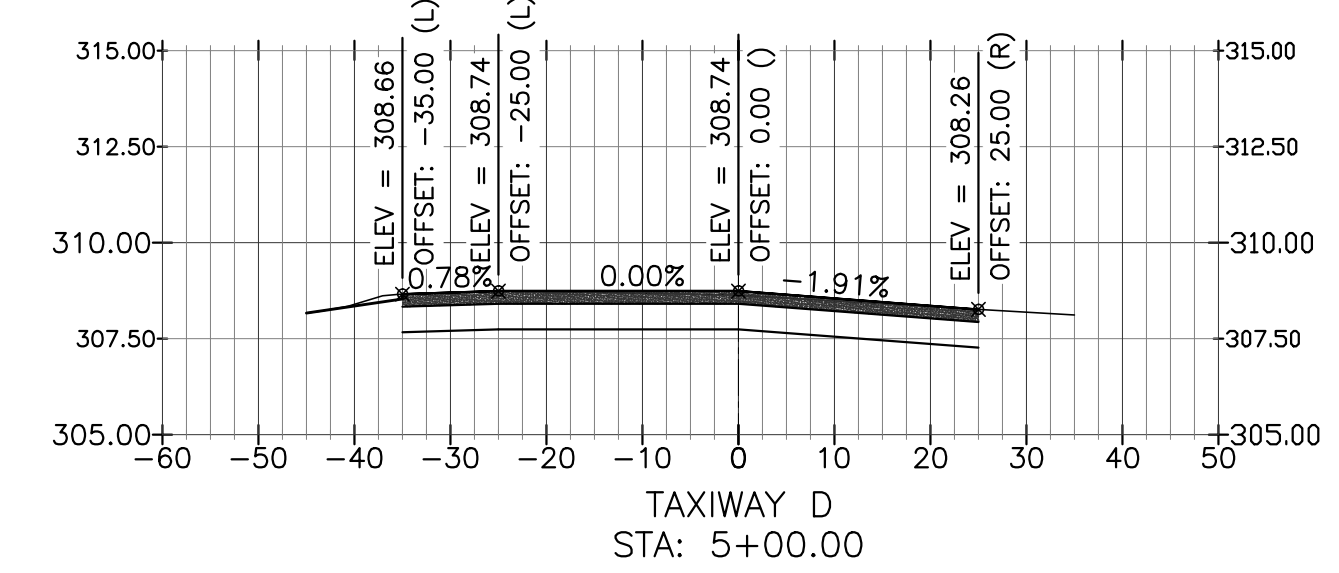
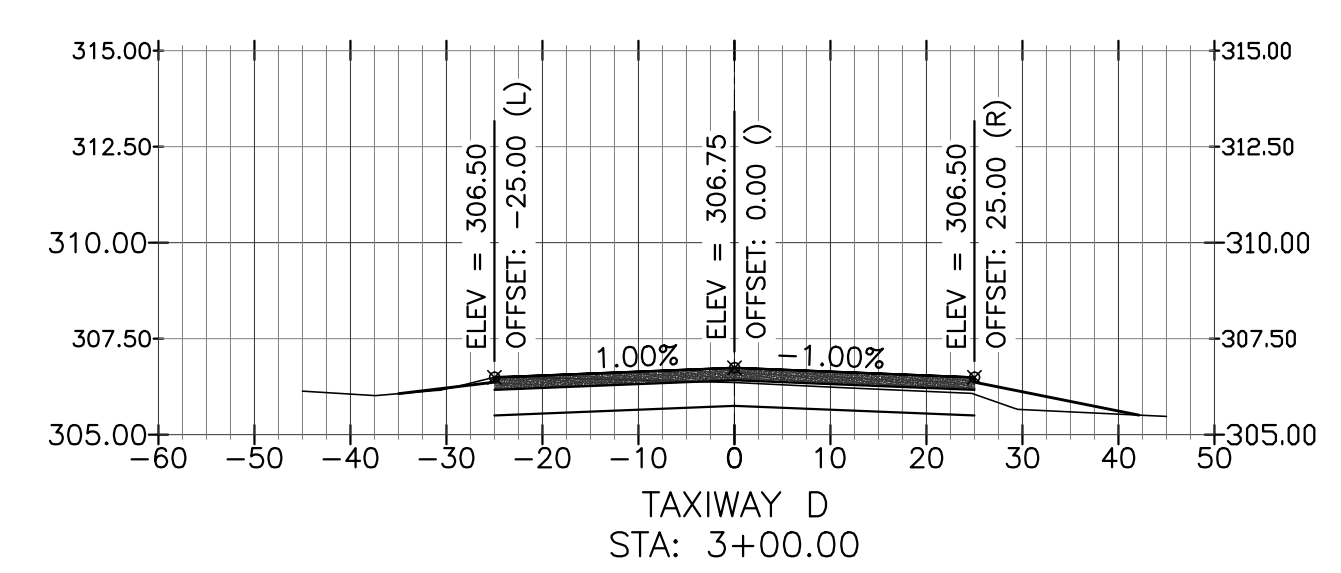
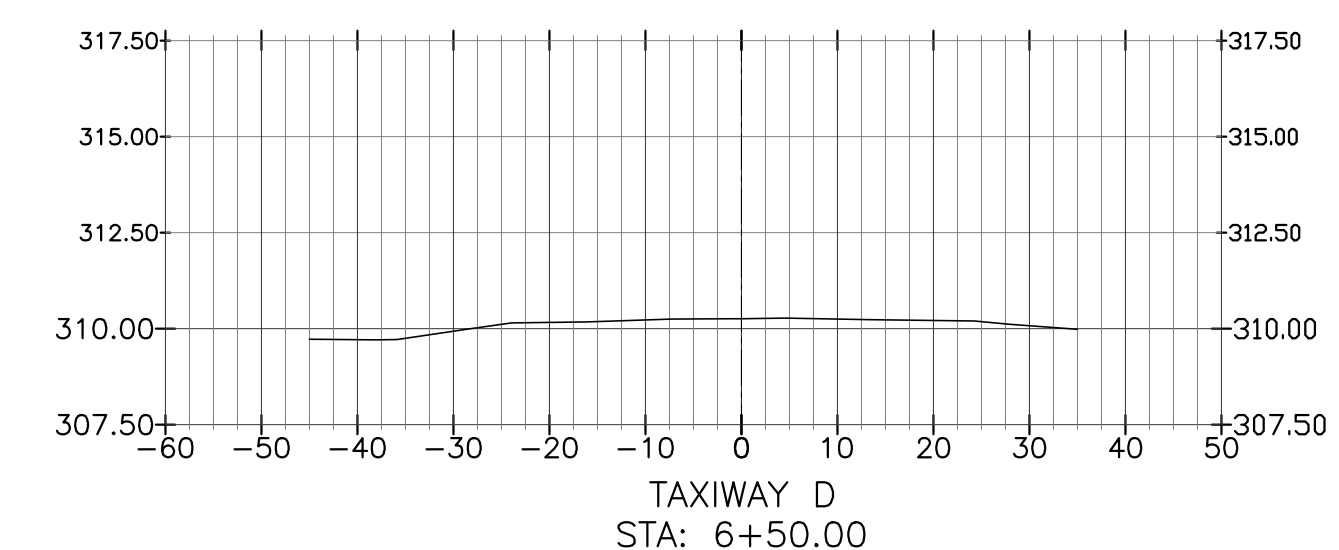
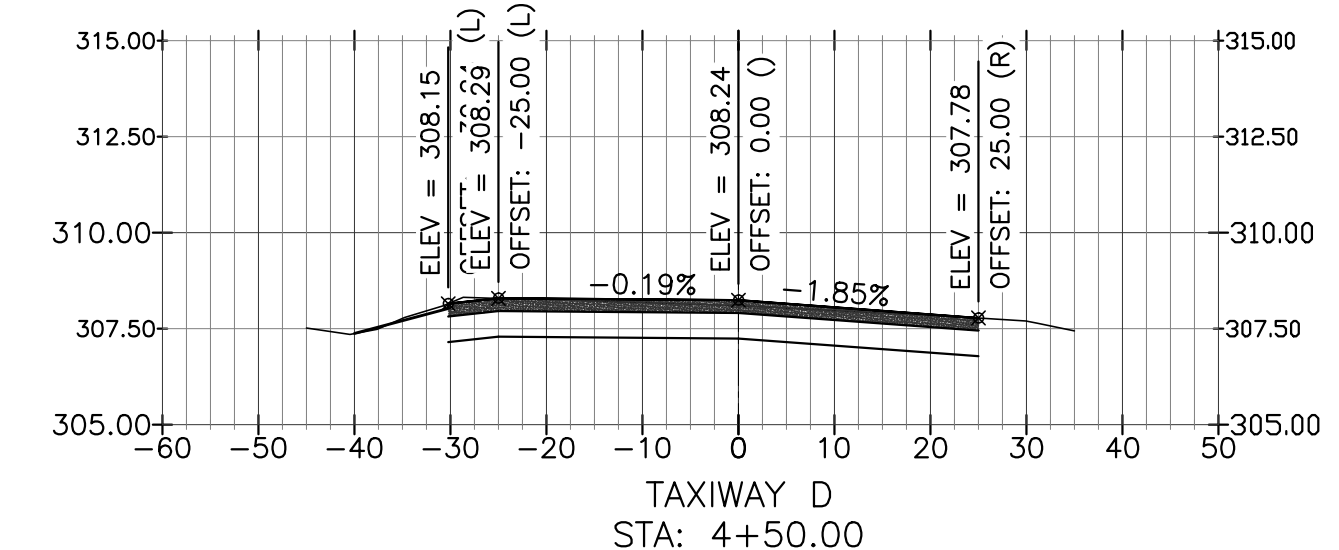
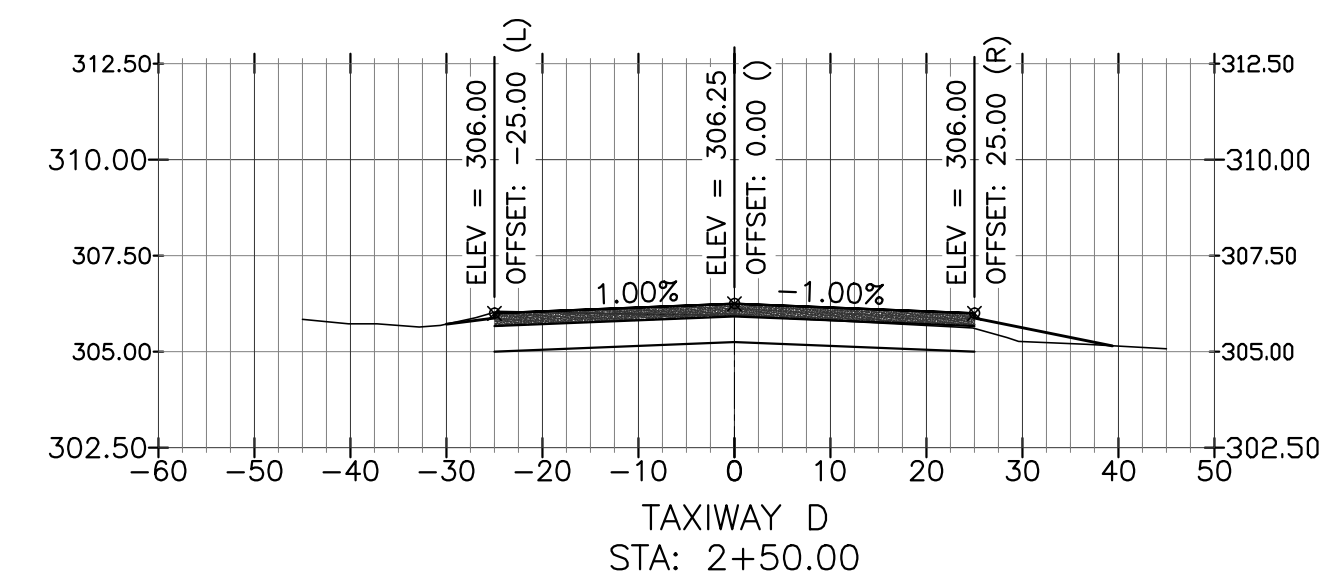
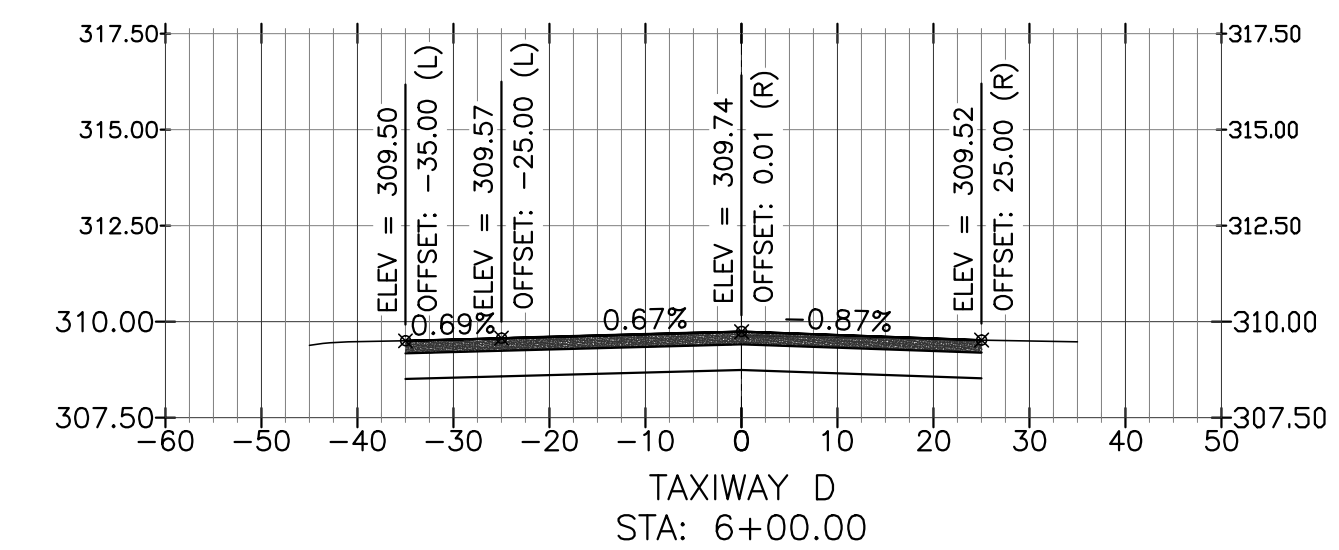
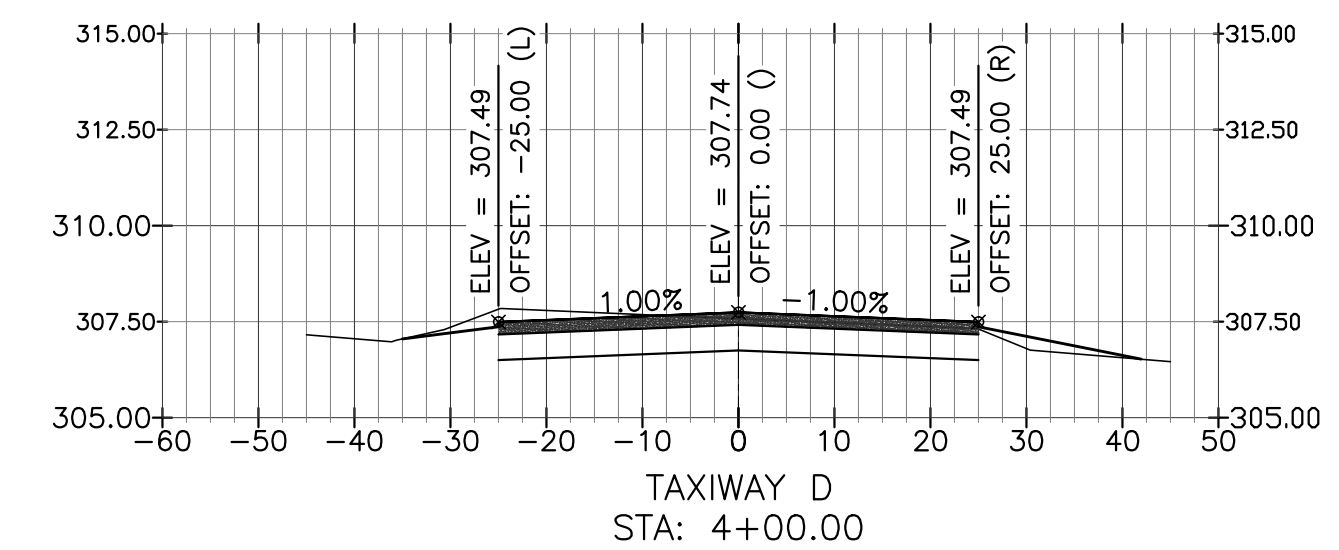
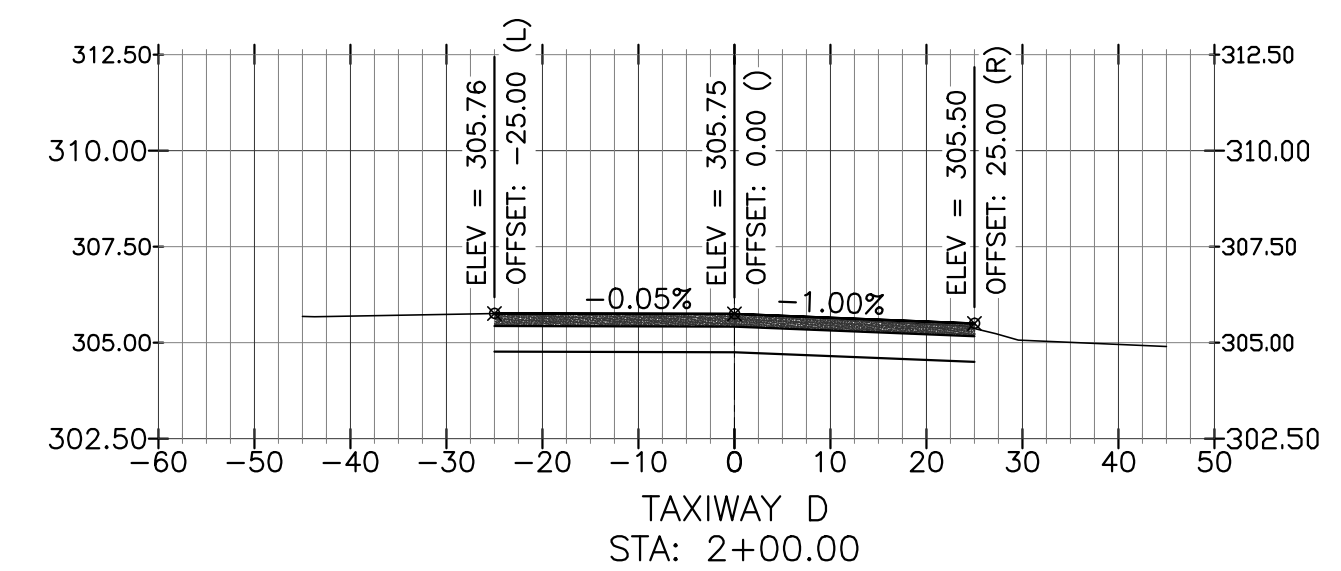


- NOTES:
- BARRICADE CONSTRUCTED OF HIGH IMPACT, UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY NEUBERT AERO CORP. (1-877-NAC-ARPT) OR SIMILAR APPROVED EQUAL.
 - EACH UNIT SHALL INCLUDE RED STANDARD 3-WAY LIGHT, 12" ORANGE FLAG AND 3M HIGH REFLECTIVE ORANGE TAPE.
 - BARRICADES SHALL BE PLACED AS SHOWN UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
 - BARRICADES ARE TO BE PROPERTY OF THE AIRPORT UPON COMPLETION OF THE PROJECT.

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CROSS SECTIONS
 REHABILITATE TAXIWAY D
 HAWKINS FIELD AIRPORT
 JACKSON MUNICIPAL AIRPORT AUTHORITY
 JACKSON, MISSISSIPPI



LEGEND
 BITUMINOUS SURFACE COURSE (TYP.)
 CRUSHED AGGREGATE BASE COURSE

DATE	DESCRIPTION	BY

SCALE:
 AS NOTED
 PROJECT NO.
 J.M.A.A. PROJECT NO.: 009-16
 A.I.P. NO.: (TO BE ASSIGNED)
 SHEET NO.
 15