FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	NH-0006-01(086)	1

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED U.S. HIGHWAY FEDERAL AID PROJECT NO. NH-0006-01(086)

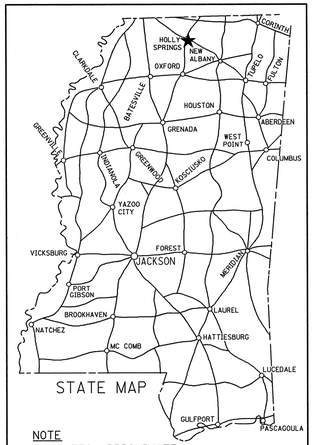
REHABILITATION OF U.S. HWY 78 FROM WEST HOLLY SPRINGS EXIT TO MARSHALL/BENTON COUNTY LINE

FMS 105510/303000

MARSHALL COUNTY

SCALES

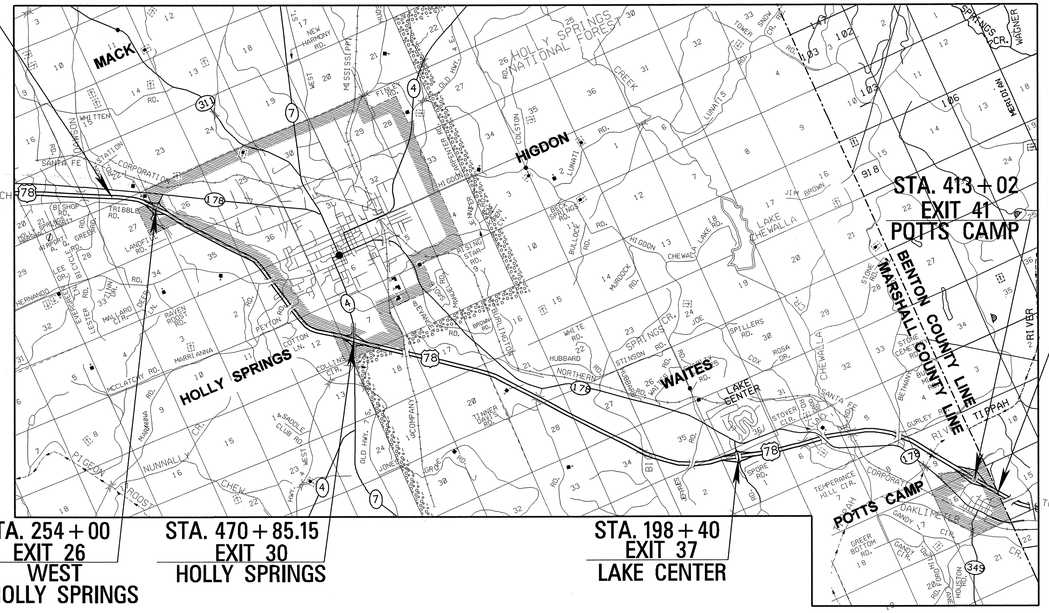
PLAN		1 IN.= 100 FT.
PROFILE	HOR.	1 IN.= 100 FT.
	VERT.	1 IN.= 10 FT.
LAYOUT		1 IN.= 5280 FT.



NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 34°42'43.02" LONG. 89°24'32.25"
(APPROX. MIDDLE OF PROJECT)

B.O.P. STA. 197+00



STA. 413+02
EXIT 41
POTTS CAMP

E.O.P. STA. 442+20.57

STA. 254+00
EXIT 26
WEST HOLLY SPRINGS

STA. 470+85.15
EXIT 30
HOLLY SPRINGS

STA. 198+40
EXIT 37
LAKE CENTER

DESIGN CONTROL

_____ MPH = V (SPEED DESIGN)

ADT (____) =_____: ADT (____) =_____

DHV =_____ : D =_____% T=_____%

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):

	WATERS	WETLANDS
NATIONWIDE #14	N	N
NATIONWIDE (OTHER)*	N	N
GENERAL*	N	N
INDIVIDUAL (404)*	N	N

* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR

STORMWATER PERMIT Y

Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA=5 ACRES+)(NTB 586)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)(NTB 14)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: J.T. DATE: 2/15/11

CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN CORPORATION LINE
SECTION LINE
EXISTING ROAD OR TRAVELED WAY
PROPOSED ROAD OR TRAVELED WAY
RAILROAD
SURVEY LINE
BRIDGES

EQUATIONS

STA. 372+15.13 BK =	STA. 372+17.10 AH	− 1.97 FT.
STA. 416+63.00 BK =	STA. 416+65.83 AH	− 2.83 FT.
STA. 438+11.62 BK =	STA. 439+38.00 AH	− 126.38 FT.
STA. 609+89.91 BK =	STA. 609+81.40 AH	+8.51 FT.
STA. 653+06.00 BK =	STA. 10+00.00 AH	+64,306.00 FT.
TOTAL		+ 64,183.33 FT.

EXCEPTIONS

NONE

LENGTH DATA

LENGTH OF ROADWAY	85,570.89 FT.	16.207 MI.
LENGTH OF BRIDGES	3,133.01 FT.	0.593 MI.
LENGTH OF PROJECT (NET)		16.800 MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)		16.800 MI.

10

APPROVED: 3/17/11
CHIEF ENGINEER DATE

3/17/11
INTERIM EXECUTIVE DIRECTOR DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED:

DIVISION ADMINISTRATOR DATE

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

REVISIONS BY DATE

1 st O. REV.

STATE	PROJECT NO.
MISS.	NH-0006-01(086)

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DETAILED INDEX		DI-2	3
GENERAL NOTES		GN-1	4
GENERAL NOTES		GN-2	5
GENERAL NOTES		GN-3	6
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END OF THE HOLLY SPRINGS BYPASS TO POTTS CAMP			
TYPICAL SECTION (EB STA. 645+36.38 TO 285+00) EB STA. 377+00 TO 442+20.57 & WB STA. 645+36.38 TO 82+00)		TS-2	8
TYPICAL SECTION (WB STA. 219+00 TO STA. 442+20.57)		TS-3	9
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DISTRICT 2 - FORD & SULLIVANT

PS & E PLANS-DATE: 3/17/11		
FMS CON. # 105510 / 303000		
REVISIONS		
DATE	SHEET NO.	BY
4/19/11	4, 16, 17 & 19	BS

10

BY | REVISION | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0006-01(086)
COUNTY : MARSHALL

FILENAME: DETAILEDINDEX.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

WORKING NUMBER DI-1
SHEET NUMBER 2

PLAN
ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

STATE	PROJECT NO.
MISS.	NH-0006-01(086)

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TOTAL SHEETS (153)

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BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0006-01(086)
COUNTY : MARSHALL

FILENAME: DETAILEDINDEX.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

WORKING NUMBER DI-2
SHEET NUMBER 3

PLAN
ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1 st O. REV.

STATE	PROJECT NO.
MISS.	NH-0006-01(086)

GENERAL NOTES:

1. PAY ITEM 406–B001, COLD MILLING OF CONCRETE PAVEMENT, IS INCLUDED WITH THE INTENT THAT THE CONCRETE ON ALL BRIDGE ENDS BE MILLED 1 1/2" TO ALLOW FOR PLACEMENT OF THE FULL–DEPTH OF SURFACE LIFT ASPHALT ONTO THE BRIDGE ENDS.

2. HIGHWAYS, COUNTY ROADS, AND/OR CITY STREETS MAY REQUIRE NEW STRIPE.

3. THE CONTRACTOR SHALL PROVIDE ALL SIGNS AND TRAFFIC HANDLING DEVICES NECESSARY TO SAFELY MAINTAIN TRAFFIC AROUND OR THROUGH THE WORK AREAS.

4. INCIDENTAL WORK SUCH AS REMOVING VEGETATION, SHAPING AND COMPACTION OF SHOULDERS, INCIDENTAL GRADING OF DRIVEWAYS FOR POSITIVE DRAINAGE AND SLOPE AND OTHER INCIDENTAL WORK THAT IS NECESSARY TO COMPLETE THE WORK WILL NOT BE MEASURED FOR SEPARATE PAYMENT AND THE COST WILL BE INCLUDED IN THE BID ITEMS.

5. DUE CARE SHALL BE TAKEN DURING BOTH TRENCH WIDENING AND GRANULAR MATERIAL OPERATIONS TO BLADE MATERIAL TOWARD THE ROADWAY AND AWAY FROM THE DITCH LINE. MATERIAL SHALL BE REMOVED FROM THE ROADWAY GRASS IF INADVERTENTLY BLADED THERE.

6. AT BRIDGE ENDS AND AT THE END OF THE WORK DAYS, THE CONTRACTOR SHALL PROVIDE A TAPER AT ANY VERTICAL JOINT ON A THREE (3) FOOT TO ONE (1) INCH VERTICAL SLOPE.

7. SHOULD MILLING BE REQUIRED WITHIN A CURB AND GUTTER SECTION, THE CONTRACTOR SHALL CONTINUOUSLY KEEP THE TRAVEL SURFACE FREE FROM SURFACE WATER. THIS MAY REQUIRE CONTINUOUS TWENTY–FOUR (24) HOUR MONITORING AND SWEEPING OF THE PROJECT.

8. REMOVAL OF FAILED BASE WILL NOT BE PAID AS SHOWN ON SHEETS PR–1A AND PR–1B. THIS REMOVAL WILL BE PAID AS EXCESS EXCAVATION, AS SHOWN ON THE TYPICAL SECTIONS.

9. BRIDGE END PAVEMENT TO BE CONSTRUCTED IN PHASES TO THE CENTER LINE OF ROADWAY USING TIE BARS AS SHOWN IN GENERAL NOTES #1 IN WORKING SHEET NUMBER BE–1.

10. THE LOCATIONS AND SPACING OF SIGNS, AS SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.

11. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT MUST BE REPAIRED AT NO EXPENSE TO THE DEPARTMENT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

12. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC., SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

13. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS, AND PLACE A MS ONE CALL, TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.

14. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES; THEREFORE, THE RISK OF A FAILURE OCCURING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSON WORKING NEAR THE EXCAVATION AND THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIAL AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

15. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT THOSE DESIGNATED IN THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.

16. ALL POST LENGTHS FOR SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.

17. REMOVAL OF ITEMS THAT CONFLICT WITH THE REQUIRED CONSTRUCTION FOR WHICH NO PAY ITEM IS SHOWN SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

18. SOME WORK MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS SHOWN ON THE PLANS.

19. UPON COMPLETION OF CONSTRUCTION ALL VERTICAL BRIDGE CLEARANCES MUST MEET A MINIMUM REQUIREMENT OF 16' 6" CLEARANCE.

20. AS BUILTS WILL BE PROVIDED ON THE MDOT FTP SITE FOR INFORMATION ONLY. SEE CONTRACT PROPOSAL FOR ADDITIONAL INFORMATION.

21. MAXIMUM LANE CLOSURE ALLOWED IS 3 MILES. A 3 MILE INTERVAL IS REQUIRED BETWEEN WORK ZONES IN ADJACENT LANES IN THE SAME DIRECTION OF TRAVEL AND A 2 MILE INTERVAL IS REQUIRED BETWEEN WORK ZONES IN THE SAME LANE IN THE SAME DIRECTION OF TRAVEL.

22. COORDINATION WILL BE REQUIRED WITH ACTIVE CONSTRUCTION PROJECTS, INCLUDING PROJECT NO. NH–0006–01(084)/105510, HWY. 78 RUBBLIZATION, REGARDING PROFILE GRADE TIE–INS AT EOP/BOP, TRAFFIC CONTROL AND ALL OTHER CONSTRUCTION ITEMS.

UTILITIES:
City of Holly Springs 662–252–4411
(INCLUDES LIGHTS AT SR. 7/4 INTERCHANGE)
Northcentral Electric 662–838–2151

UTILITIES:
Tennessee Gas 615–221–1527
Mid Valley Pipeline 931–647–5330

DATE	REVISION	BY
4/19/11	CHANGED NOTE	BS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJECT NO.: NH–0006–01(086)
COUNTY: MARSHALL

WORKING NUMBER GN-1
SHEET NUMBER 4

FILENAME: Generalnotes.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
4/19/2011 09:30:36 004 GENERAL NOTES.DGN

STATE	PROJECT NO.
MISS.	NH-0006-01(086)

GENERAL NOTES:

23. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).

24. 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.

25. WIRE FENCE WILL BE REQUIRED FOR ALL SILT FENCE (SEE WK. NO. TEC–1).

26. REMOVAL OF RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH REQUIRED CONSTRUCTION IS NOT CONSIDERED A SEPARATE PAY ITEM. COST TO BE ABSORBED IN OTHER ITEMS BID.

27. REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM.

28. WHERE MILLING OF THE ROADWAY LANES IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER ON THE MILLED SURFACE. (ABSORBED ITEM)

29. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION.

30. EXCEPT AS NOTED ELSEWHERE IN THE PLANS, ALL EXISTING LOGO SIGNS AND ADOPT–A–HIGHWAY SIGNS ARE TO REMAIN IN PLACE. LOGO SIGNS WHICH CONFLICT WITH PROPOSED CONSTRUCTION SIGNING OR IF DIRECTED BY THE PROJECT ENGINEER, WILL BE RELOCATED BY MS LOGOS, INC.

31. SIGN SUPPORT FOOTINGS SHALL BE REMOVED AND BACKFILLED WITH GRANULAR MATERIAL OR TOPSOIL AS APPROVED BY THE PROJECT ENGINEER. THE BACKFILL MATERIAL IS NOT A SEPARATE PAY ITEM. THE REMOVAL IS TO BE PAID FOR UNDER PAY ITEM 202–B.

32. ALL EXISTING SIGNS AND SUPPORTS THAT ARE DETAILED TO BE REMOVED, OR IT IS NECESSARY TO REMOVE AND REPLACE ANY PORTION OF THE SIGN ASSEMBLY, THEN THAT MATERIAL SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS AT A POINT DESIGNATED BY THE ENGINEER(NOT A SEPRATE PAY ITEM).

33. CLEARING AND GRUBBING TO PROVIDE THE REQUIRED SIGHT FLARE WILL BE PERFORMED TO A DISTANCE DEFINED BY THE HYPOTENUSE OF THE TRIANGLE FORMED BY A 1000 FOOT LEG PARALLEL TO THE OUTSIDE LANE AND THE LEG PERPENDICULAR TO THE OUTSIDE LANE FROM THE EDGE OF PAVEMENT TO FIVE FEET BEYOND THE FARTHEST EDGE OF THE SIGN. TO BE PAID FOR UNDER APPROPRIATE PAY ITEMS.

34. ERECTION DATES ARE TO BE LEGIBLY WRITTEN ON THE BACKS OF ALL SIGNS.

35. DIRECT APPLIED LEGEND, BORDERS, AND SHIELD ARE TO BE USED ON ALL GUIDE SIGNS. RIVETS WILL NOT BE ALLOWED.

36. ALL POST, PIPE, AND I–BEAM LENGTHS ARE ESTIMATES. CONTRACTOR IS RESPONSIBLE FOR PERFORMNG A FIELD SURVEY TO DETERMINE THE EXACT LENGTHS AND SHALL PROVIDE CALCULATIONS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

37. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A MICROSOFT EXCEL SPREADSHEET WITH THE FOLLOWING INFORMATION ABOUT EACH SIGN TO THE STATE TRAFFIC ENGINEER: COUNTY, LONGITUDE, LATITUDE, MUTCD CODE, SIZE, BACKGROUND COLOR LEGEND COLOR, METHOD OF MOUNTING(i.e. POST,PIPE, I–BEAM) NUMBER OF SUPPORTS, DATE OF ERECTION, DIRECTION OF TRAVEL, DIRECTION THE SIGN IS FACING, LEGEND CONTAINED ON SIGN (IF APPLICABLE). EACH SIGN SHALL BE ASSIGNED A UNIQUE IDENTIFICATION NUMBER. DIGITAL PHOTOGRAPHS OF EVERY SIGN SHALL BE SUBMITTED IN MICROSOFT WINDOWS BITMAP FORMAT. THE FILE NAME USED FOR EACH IMAGE SHALL CORRESPOND TO THE UNIQUE INDENTIFICATION NUMBER FOR EACH SIGN.

38. ALL EXISTING SIGNS WHICH ARE A PART OF THIS PROJECT ARE TO REMAIN IN PLACE UNTIL ONE OF THE FOLLOWING CONDITIONS APPLY: IF DETAILED TO "REMOVE AND REPLACE THE SIGN ASSEMBLY", THEN THE NEW SIGNS SHALL BE ERECTED; IF DETAILED TO "REMOVE AND RELOCATE",THEN THAT WORK SHALL BE DONE THAT SAME DAY; IF IT IS DETAILED "TO COMPLETELY REMOVE THE SIGN ASSEMBLY", THEN THAT WORK SHALL BE DONE AT A TIME APPROVED BY THE PROJECT ENGINEER OR AS DIRECTED BY THE PROJECT ENGINEER ON ALL CONDITIONS STATED.

UTILITIES:
City of Holly Springs 662–252–4411
(INCLUDES LIGHTS AT SR. 7/4 INTERCHANGE)
Northcentral Electric 662–838–2151

UTILITIES:
Tennessee Gas 615–221–1527
Mid Valley Pipeline 931–647–5330

REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJECT NO.: NH–0006–01(086)
COUNTY: MARSHALL

WORKING NUMBER GN-2

DATE | FILENAME: GeneralNotes.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

SHEET NUMBER 5

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
3/16/2011 11:20:49 005 GENERAL NOTES.DGN