

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

May 17, 2022

CONTRACT: 12031131 WBS ELEMENTS: VARIOUS

COUNTIES: BEAUFORT, CARTERET, CRAVEN, GREENE, JONES,

LENOIR, PAMLICO, AND PITT

ROUTES: VARIOUS

DESCRIPTION: ON-CALL TIRED PAVING IN DIVISION 2 FEDERAL

FUNDED

BID OPENING: WEDNESDAY, JUNE 8, 2022

ADDENDUM 1

TO: PROSPECTIVE BIDDERS

Please note the following revisions to the proposal.

- Revision of the Tiered Pavement Special Provision to include the definition of a Subdivision Road.
- Revised Bid Form to include line items for subdivision paving.

Please make sure to sign the addendum page in the proposal to acknowledge this addendum.

Sincerely,

--- DocuSigned by:

Mary Voelker Moore

714C11DCCEBC4C6...

Mary Voelker Moore

Division Contract Engineer

cc: Ms. Mary Beth Houston, PE

Mr. Jeremy Stroud, PE

Mr. Jeff Cabaniss, PE

Mr. Hon Yeung, PE

Ms. Debora Roberson

Website: www.ncdot.gov

PROJECT SPECIAL PROVISIONS

ROADWAY

BURNING RESTRICTIONS:

(7-1-95) 200, 210, 215 SP2 R05

Open burning is not permitted on any portion of the right-of-way limits established for this project. Do not burn the clearing, grubbing or demolition debris designated for disposal and generated from the project at locations within the project limits, off the project limits or at any waste or borrow sites in this county. Dispose of the clearing, grubbing and demolition debris by means other than burning, according to state or local rules and regulations.

SUPPLEMENTAL SURVEYING:

(4-20-21) 801 SP8 R03

Revise the 2018 Standard Specifications as follows:

Page 8-7, Article 801-3 MEASUREMENT AND PAYMENT, lines 10-11, replace with the following:

Supplemental Surveying Office Calculations will be paid at the stated price of \$85.00 per hour. Supplemental Field Surveying will be paid at the stated price of \$145.00 per hour. The

IMPACT ATTENUATOR UNITS, TYPE 350 TL-2:

(4-11-07) (Rev. 9-15-15) SPI 8-43

Description

Furnish and install impact attenuator units and any components necessary to connect the impact attenuator units in accordance with the manufacturer's requirement, the details in the plans and at locations shown in the plans.

Materials

Furnish impact attenuator units listed on the <u>Approved Products List</u> at https://apps.dot.state.nc.us/vendor/approvedproducts/ or approved equal. Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each impact attenuator unit certifying it meets the requirements of NCHRP Report 350, Test Level 2, in accordance with Article 106-2 of the 2012 Standard Specifications.
- (B) Certified working drawings and assembling instructions from the manufacturer for each impact attenuator unit in accordance with Article 105-2 of the 2012 Standard Specifications.

No modifications shall be made to the impact attenuator unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans and details and assembling instructions furnished by the manufacturer.

Measurement and Payment

Impact attenuator units will be measured and paid for at the contract unit price per each for *Impact Attenuator Unit, Type 350 TL-2*. Such prices and payment will be full compensation for all work covered by this provision including but not limited to furnishing, installing and all incidentals necessary to complete the work.

Payment will be made under:

Pay Item Pay Unit

Impact Attenuator Unit, Type 350 TL-2 Each

IMPACT ATTENUATOR UNITS, TYPE TL-3:

(4-20-04) (Rev. 12-18-18) SP8 R75

Description

Furnish and install impact attenuator units and any components necessary to connect the impact attenuator units in accordance with the manufacturer's requirement, the details in the plans and at locations shown in the plans.

Materials

Furnish impact attenuator units listed on the <u>Approved Products List</u> at <u>https://apps.dot.state.nc.us/vendor/approvedproducts/</u> or approved equal. Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each impact attenuator unit certifying it meets the requirements of the Manual for Assessing Safety Hardware (MASH-16), Test Level 3, in accordance with Article 106-2 of the 2018 Standard Specifications.
- (B) Certified working drawings and assembling instructions from the manufacturer for each impact attenuator unit in accordance with Article 105-2 of the 2018 Standard Specifications.

No modifications shall be made to the impact attenuator unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans and details and assembling instructions furnished by the manufacturer.

Construction Methods

If the median width is 40 feet or less, the Contractor shall supply NON-GATING Impact Attenuator Units.

If the median width is greater than 40 feet, the Contractor may use GATING or NON-GATING Impact Attenuator Units.

Measurement and Payment

Impact Attenuator Unit, Type TL-3 will be measured and paid at the contract unit price per each. Such prices and payment will be full compensation for all work covered by this provision including, but not limited to, furnishing, installing and all incidentals necessary to complete the work.

Payment will be made under:

Pay ItemPay UnitImpact Attenuator Units, Type TL-3Each

ANCHOR GUARDRAIL POST ON BOX CULVERT:

12-15-09 SPI 8-30

Description

At locations directed by the Engineer, the Contractor shall anchor guardrail posts onto existing box culverts in accordance with the Roadway Standard Drawings.

Measurement and Payment

Anchor Guardrail Post on Box Culvert will be measured and paid for in units of each. Such price and payment shall include all materials, labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay ItemPay UnitAnchor Guardrail Post on Box CulvertEach

STEEL BEAM GUARDRAIL:

Steel beam guardrail shall be installed in accordance with Section 862 of the *Standard Specifications* and Roadway Standard Drawing 862.01. Guardrail materials shall conform to Section 1046 of the *Standard Specifications*.

The Contractor shall dismantle and remove damaged and/or existing guardrail and all components; including concrete anchors, metal anchor sleeves, or anchor plates, at locations directed by the Engineer. The Contractor shall exercise care not to damage adjoining structures or other appurtenances. Any damage caused by the Contractor shall be repaired at no cost to the Department. All damaged guardrail and components, which have been removed by the Contractor,

shall become the property of the Contractor and shall be removed from Right of Way and disposed of upon completion of repair.

There will be no direct payment for removing and disposing of damaged and/or existing guardrail as this work shall be considered incidental to the work covered by this section. The Contractor shall include the cost of removing and disposing of damaged and/or existing guardrail and components in the unit price bid for the various guardrail items included in this contract.

Posts shall be replaced in kind as those removed. Intermixing of wooden and steel post will not be allowed except for end treatments placed on guardrail with steel posts.

Where directed by the Engineer, the Contractor shall replace damaged Anchor Units, Type BCT-1, and Anchor Units, Type M.E.L.T. with Guardrail Anchor Units, Type 350 and Median Guardrail Anchor Units, Type M-350.

During the maintenance and/or repair of damaged sections of guardrail, the Contractor shall replace all needed components of guardrail as directed by the Engineer and stabilize existing guardrail and appurtenances at the site.

Guardrail delineators (crystal or yellow), will be placed by the Contractor as needed at each site or as directed by the Engineer. No additional payment will be made when these items are installed as part of new guardrail and/or anchor unit installations.

The guardrail anchor units to be paid for will be the actual numbers of units, which have been completed and accepted. No separate measurement will be made at any rail, terminal sections, posts, offset blocks, concrete blocks, or any other components of the completed unit within the pay limits shown under Standard 862.02 and Standard 062.03 in the Roadway Standard Drawings as all such components will be considered to be part of the unit.

All bid items listed on bid sheet shall include all necessary incidental hardware to complete the guardrail repairs. The Contractor shall take this into consideration when submitting the bid.

Basis of payment for this contract will be the unit or lump sum prices bid for the various items accepted in place. Prices and payment will be full compensation for all work covered, including but not limited to furnishing and erecting post, offset blocks, rail, terminal sections and all other miscellaneous hardware to complete the work.

All work items necessary to complete the work other than listed on the "Bid Proposal Form" will be considered incidental in nature and no further compensation will be made. Any work performed in an unsatisfactory manner could be basis for cancellation of the contract.

Any damage to adjacent shoulders, medians, paved areas, to other facilities shall be repaired or replaced by the Contractor to the satisfaction of the Engineer.

GUARDRAIL END UNITS, TYPE - TL-2:

(10-21-08) (Rev. 7-1-17) 862 SP8 R64

Description

Furnish and install guardrail end units in accordance with the details in the plans, the applicable requirements of Section 862 of the 2018 Standard Specifications, and at locations shown in the plans.

Materials

Furnish guardrail end units listed on the NCDOT <u>Approved Products List</u> at https://apps.dot.state.nc.us/vendor/approvedproducts/ or approved equal.

Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each guardrail end unit certifying it meets the requirements of the AASHTO Manual for Assessing Safety Hardware, Test Level 2 in accordance with Article 106-2 of the 2018 Standard Specifications.
- (B) Certified working drawings and assembling instructions from the manufacturer for each guardrail end unit in accordance with Article 105-2 of the 2018 Standard Specifications.

No modifications shall be made to the guardrail end unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans, and details and assembling instructions furnished by the manufacturer.

Construction Methods

Guardrail end delineation is required on all approach and trailing end sections for both temporary and permanent installations. Guardrail end delineation consists of yellow reflective sheeting applied to the entire end section of the guardrail in accordance with Article 1088-3 of the 2018 Standard Specifications and is incidental to the cost of the guardrail end unit.

Measurement and Payment

Measurement and payment will be made in accordance with Article 862-6 of the 2018 Standard Specifications.

Payment will be made under:

Pay ItemPay UnitGuardrail End Units, Type TL-2Each

GUARDRAIL END UNITS, TYPE - TL-3:

(4-20-04) (Rev. 7-1-17) 862 SP8 R65

Description

Furnish and install guardrail end units in accordance with the details in the plans, the applicable requirements of Section 862 of the 2018 Standard Specifications, and at locations shown in the plans.

Materials

Furnish guardrail end units listed on the NCDOT <u>Approved Products List</u> at https://apps.dot.state.nc.us/vendor/approvedproducts/ or approved equal.

Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each guardrail end unit certifying it meets the requirements of the AASHTO Manual for Assessing Safety Hardware, Test Level 3, in accordance with Article 106-2 of the 2018 Standard Specifications.
- (B) Certified working drawings and assembling instructions from the manufacturer for each guardrail end unit in accordance with Article 105-2 of the 2018 Standard Specifications.

No modifications shall be made to the guardrail end unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans, and details and assembling instructions furnished by the manufacturer.

Construction Methods

Guardrail end delineation is required on all approach and trailing end sections for both temporary and permanent installations. Guardrail end delineation consists of yellow reflective sheeting applied to the entire end section of the guardrail in accordance with Article 1088-3 of the 2018 Standard Specifications and is incidental to the cost of the guardrail end unit.

Measurement and Payment

Measurement and payment will be made in accordance with Article 862-6 of the 2018 Standard Specifications.

Payment will be made under:

Pay ItemGuardrail End Units, Type TL-3

Pay Unit Each

REPLACE CONCRETE ANCHOR FOR CABLE GUIDERAIL:

The work of this section consists of removing and replacing the concrete anchor block for cable guiderail if it is destroyed or becomes unusable. The Contractor shall perform this work at locations as directed by the Engineer. This work shall include, but not be limited to, the removal of the existing concrete block, supplying the new concrete block, the resetting of the new concrete block, backfilling, disposal of waste material, and reattaching and re-tensioning the cable.

All concrete shall be Class A meeting the requirements of Section 1000 of the *Standard Specifications*. If precast concrete anchors are used, they must conform to the requirements of Section 1077 of the *Standard Specifications*.

The quantity of concrete anchor blocks removed and replaced will be paid for on a "per each basis" at the contract unit price "Replace Concrete Anchor Block for Cable Guiderail".

The above prices and payment will be full compensation for all work covered by this provision including but not limited to furnishing and erecting posts, cable, anchor units, miscellaneous hardware, concrete, delineators, and all incidentals necessary to complete the work.

RESET CONCRETE ANCHOR FOR CABLE GUIDERAIL:

The work of this section consists of resetting the concrete anchor block for cable guiderail. The Contractor shall perform this work at locations as directed by the Engineer. This work shall include, but not be limited to, the resetting of the block, backfilling, disposal of waste material, and re-attaching and re-tensioning the cable.

The quantity of concrete anchor blocks reset will be paid for on a "per each basis" at the contract price "Reset Concrete Anchor Block for Cable Guiderail".

The above prices and payment will be full compensation for all work covered by this provision including but not limited to furnishing and erecting posts, cable, anchor units, miscellaneous hardware, concrete, delineators, and all incidentals necessary to complete the work.

RESET CABLE GUIDERAIL POST:

The work of this section consists of the resetting of existing undamaged guiderail posts. The resetting of cable guiderail posts shall include, but is not limited to, the re-installation of the posts to proper height and alignment, resetting undamaged hook bolts and undamaged delineators.

Where damaged components are encountered, new materials will be utilized and paid for at the bid price for the new item.

The quantity of existing undamaged posts reset will be paid for on a "per each basis" at the contract price "Reset Cable Guiderail Post".

DRILLING FOR GUARDRAIL ANCHOR UNIT:

The work of this section consists of drilling holes with a core bit through the concrete barrier rail and providing all hardware necessary for retrofitting the anchor unit. This work will only be done in cases where the existing studs have been damaged.

The quantity of retrofitted anchor units will be paid for on a "per each basis" at the contract price "Drilling and Hardware for Anchor Unit".

CABLE GUIDERAIL REPAIR:

(10-02-19) 865 SPD

Description

Remove and replace damaged cable guiderail components as necessary to reconstruct damaged cable guiderail sections back to original construction condition or current standards.

Materials

Refer to Division 10 of the 2018 Standard Specifications.

Construction Methods

Remove partial sections of damaged guiderail or damaged individual components in accordance to Section 863 of the 2018 Standard Specifications and as directed. Erect partial sections of guiderail or install individual guiderail components in accordance to Section 865 of the 2018 Standard Specifications and as directed.

Measurement and Payment

Cable Guiderail, Cable will be measured and paid in linear feet of guiderail cable installed and accepted. Payment includes removal of the damaged guiderail cable and all labor, materials, equipment, and incidentals necessary to complete the guiderail cable installation.

Cable Guiderail, Cable Splice, Cable Guiderail, Turnbuckle, Cable Guiderail, Hook Bolt will be measured and paid for by each cable guiderail component installed and accepted. Payment includes removal of the damaged guiderail component and all labor, materials, equipment, and incidentals necessary to complete the cable guiderail component installation.

Cable Guiderail, Re-tension will be measured and paid for by each section of cable guiderail repaired requiring re-tensioning of the cables. Payment includes all labor, materials, equipment, and incidentals necessary to complete tensioning the guiderail cables.

Removal and replacement of complete sections of cable guiderail will be measured and paid for with the items *Remove Existing Guiderail*, *Cable Guiderail*, and *Cable Guiderail Anchor Units*.

Payment will be made under:

Pay Item	Pay Unit
Cable Guiderail, Cable	Linear Foot
Cable Guiderail, Cable Splice	Each
Cable Guiderail, Turnbuckle	Each
Cable Guiderail, Posy Hooks	Each
Cable Guiderail, Re-tension	Each

PORTLAND CEMENT CONCRETE PRODUCTION AND DELIVERY:

(9-15-20) 1000, 1014, 1024 SP10 R01

Revise the 2018 Standard Specifications as follows:

Page 10-6, Table 1000-1, REQUIREMENTS FOR CONCRETE, replace with the following:

TABLE 1000-1 REQUIREMENTS FOR CONCRETE											
	ssive days	Maximum Water-Cement Ratio			Consistency Maximum Slump		Cement Content				
Concrete	Min. Compressive Strength at 28 days	Air-Entrained Concrete		Non-Air- Entrained Concrete		Vibrated	Non- Vibrated	Vibrated		Non-Vibrated	
		Rounded Aggregate	Angular Aggregate	Rounded Aggregate		Vib	N Sib				N.C. N.C.
<i>II</i> :	•					• 1.	· 1.	Min.	Max.	Min.	Max.
Units AA	<i>psi</i> 4500	0.381	0.426			<i>inch</i> 3.5 ^A	inch	<i>lb/cy</i> 639	<i>lb/cy</i> 715	lb/cy	lb/cy
AA Slip	4500	0.381									
Form	4500	0.381	0.426			1.5		639	715		
Drilled Pier	4500			0.450	0.450		5 – 7 dry 7 - 9 wet			640	800
A	3000	0.488	0.532	0.550	0.594	3.5 A	4.0	564		602	
В	2500	0.488	0.567	0.559	0.630	1.5 machine placed 2.5 A hand placed	4.0	508		545	
Sand Light- weight	4500		0.420			4.0 A		715			
Latex Modified	3000 (at 7 days)	0.400	0.400			6.0		658			
Flowable Fill excavatable	150 max. (at 56 days)	as needed	as needed	as needed	as needed		Flowable			40	100
Flowable Fill non- excavatable		as needed	as needed	as needed	as needed		Flowable			100	as needed
Pavement	4500 Design, field 650 flexural, design only	0.559	0.559			1.5 slip form 3.0 hand placed		526			
Precast	See Table 1077-1	as needed	as needed			6.0	as needed	as needed	as needed	as needed	as needed
Prestressed	per contract		See Table 1078-1			8.0		564	as needed		

A. The slump may be increased to 6 inches, provided the increase in slump is achieved by adding a chemical admixture conforming to Section 1024-3. In no case shall the water-cement ratio on the approved design be exceeded. Concrete exhibiting segregation and/or excessive bleeding will be rejected. Utilizing an Admixture to modify slump does not relinquish the contractor's responsibility to ensure the final product quality and overall configuration meets design specifications. Caution should be taken when placing these modified mixes on steep grades to prevent unintended changes to the set slope.

MATERIAL AND EQUIPMENT STORAGE & PARKING OF PERSONAL VEHICLES:

11-17-21 1101 SP11 R03

Revise the 2018 Standard Specifications as follows:

Page 11-2, Article 1101-8 MATERIAL AND EQUIPMENT STORAGE, line 35-38, delete and replace with the following:

When work is not in progress, keep all personnel, equipment, machinery, tools, construction debris, materials and supplies away from active travel lanes that meets Table 1101-1.

TABLE 1101-1				
MATERIAL AND EQUIPMENT STORAGE FROM ACTIVE TRAVEL LANES				
Posted Speed Limit (mph)	Distance (ft)			
40 or less	≥ 18			
45-50	≥ 28			
55	≥ 32			
60 or higher	≥ 40			

When vehicles, equipment and materials are protected by concrete barrier or guardrail, they shall be offset at least 5 feet from the barrier or guardrail.

Page 11-2, Article 1101-9 PARKING OF PERSONAL VEHICLES, line 40-41, delete and replace with the following:

Provide staging areas for personal vehicle parking in accordance with section 1101-8 or as directed by the Engineer before use.

WORK ZONE INSTALLER:

(7-20-21) 1101, 1150 SP11 R04

Provide the service of at least one qualified work zone installer during the setup, installation, and removal of temporary traffic control within the highway right of way. The qualified work zone installer shall serve as crew leader and shall be on site and directing the installation and removal of temporary traffic control. If multiple temporary traffic control installations or removals are occurring simultaneously, then each shall have a qualified work zone installer.

The work zone installer shall be qualified by an NCDOT approved training agency in the safe and

competent set up of temporary traffic control. For a complete listing of approved training agencies, see the Work Zone Safety Training webpage.

A work zone supervisor, in accordance with Article 1101-13 of the *Standard Specifications*, may fulfill the role of the work zone installer during the setup, installation, and removal of temporary traffic control within the highway right of way provided they are on site and directing the installation and removal of temporary traffic control.

All other individuals participating in the setup, installation, and removal of temporary traffic control within the highway right of way shall be certified as a qualified flagger in accordance with Article 1150-3 of the *Standard Specifications*, even if flagging is not being performed as part of the traffic control.

Provide the name and contact information of all qualified work zone installers to the Engineer prior to or at the preconstruction conference. Additionally, provide a qualification statement that all other individuals participating in the setup, installation, and removal of temporary traffic control are qualified flaggers that have been properly trained through an NCDOT approved training agency.

North Carolina Department of Transportation BID FORM

CONTRACT: 12031089 WBS ELEMENTS: TBA

COUNTIES: Beaufort, Carteret, Craven, Greene, Jones, Lenoir, Pamlico, and Pitt

DESCRIPTION: Guardrail/Guiderail Repair and/or Installation

BID OPENING: June 8, 2022

ITEM	SECT	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT BID
1	SP	IMPACT ATTENUATOR UNIT, TYPE 350	1	EA		
2	SP	IMPACT ATTENUATOR UNIT, TL-3, MASH	1	EA		
3	862	STEEL BM GUARDRAIL W/STEEL POST	1000	LF		
4	862	STEEL BM GUARDRAIL W/WOODEN POST	125	LF		
5	862	STEEL BM GUARDRAIL, SHOP CURVED	100	LF		
6	862	STEEL BM GUARDRAIL (RAIL ONLY)	1,000	LF		
7	862	W-TR STEEL BM GR TRANSITION SECTIONS	1	EA		
8	862	ADDITIONAL GUARDRAIL POSTS (STEEL)	50	EA		
9	862	ADDITIONAL GUARDRAIL POSTS (WOOD)	10	EA		
10	SP	RESET GUARDRAIL POSTS	50	EA		
11	SP	CULVERT MOUNTED GUARDRAIL POSTS	10	EA		
12	SP	REMOVE/RESET STEEL BEAM GUARDRAIL	100	LF		
13	862	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	1	EA		
14	SP	GUARDRAIL ANCHOR UNITS, MASH TL-2	15	EA		
15	SP	GUARDRAIL ANCHOR UNITS, MASH TL-3	15	EA		
16	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	1	EA		
17	862	GUARDRAIL ANCHOR UNITS, TYPE B-83	1	EA		
18	862	BUFFERED END SECTION FOR AT-1,CAT-1	1	EA		
19	862	TYPE III GUARDRAIL BRIDGE ANCHOR	1	EA		
20	862	TYPE III MOD RAIL RETRO FIT	1	EA		
21	SP	REPLACE CONC. ANCHOR FOR CABLE GUIDERAIL	1	EA		
22	SP	RESET CONC. ANCHOR FOR CABLE GUIDERAIL	1	EA		
23	SP	RESET CABLE GUARDRAIL POSTS	10	EA		
24	SP	CABLE GUIDERAIL POSTS	500	EA		
25	SP	CABLE GUIDERAIL ANCHOR POSTS	5	EA		
26	SP	CABLE GUIDERAIL CABLE POSTS HOOKS	2,500	EA		
27	SP	DRILLING AND HARDWARE FOR ANCHOR UNIT	1	EA		
28	SP	CABLE GUIDERAIL RETENSION	20	EA		
29	SP	CABLE GUIDERAIL SPLICE	5	EA		
30	SP	CABLE GR SPRING CABLE END ASSEMBLY	1	EA		
31	SP	STEEL TURNBUCKLE CABLE END ASSEMBLY	1	EA		

32	SP	CABLE FOR CABLE GUARDRAIL	1500	LF	
33	862	TRIPLE CORRUGATED STEEL BM		EA	
		GUARDRAIL(THREE-BEAM GUARDRAIL)	300	LA	
34	SP	TRAFFIC CONTROL (FULL LANE		EA	
		CLOSURE)	30	LA	
35	SP	TRAFFIC CONTROL (SHOULDER		EA	
		CLOSURE)	100	LA	

THE CONTRACTOR SHALL NOTE THAT THE CONTRACT QUANTITIES PROVIDED ARE USED SOLELY FOR DETERMINING THE LOWEST RESPONSIBLE BIDDER. NO MINIMUM AMOUNT OF WORK IS GUARANTEED UNDER THIS CONTRACT.

TOTAL BID FOR PROJECT:					
CONTRACTOR	FEDERAL ID:				
ADDRESS					
PHONE					
AUTHORIZED AGENT	TITLE				
SIGNATURE	_ DATE				