



ANSI ASC X12
PAYMENT ORDER/REMITTANCE ADVICE
VERSION 004, RELEASE 010

10/18/01

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ISO 9002 Certified

Dear Roadway Customer:

Thank you for your interest in payment order/remittance advice with Roadway. This is the 820 implementation guide you requested. We look forward to working with you to implement the 820 payment order/remittance advice. If you have any questions about the 820 or any other EDI issues please feel free to contact one of the persons listed below.

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Preface

Purpose and Scope

The purpose of this guide is to provide Roadway's trading partners with the necessary information to create and transmit Electronic Remittance Advice, via EDI, to Roadway. The material presented here covers the 820 Payment Order/Remittance Advice of Version 004, Release 010 of the ANSI ASC X12 standard.

American National Standards Institute Accredited Standards Committee X12

Roadway Express uses ANSI ASC X12 standard format transaction sets for the exchange of electronic documents with its EDI trading partners.

Roadway Express is a leader in the use of EDI in the transportation industry and firmly supports the use of ANSI ASC X12 standards in EDI trading partner relationships. The use of such standards cultivates a common language between trading partners and expedites EDI setup. A well developed EDI system provides numerous possibilities for expanding the business relationship.

PREFACE	III
Purpose and Scope	iii
ANSI ASC X12	iii
REFERENCE MATERIAL	1
ASCX12 Publications	1
ATA Publications	1
ELECTRONIC DATA INTERCHANGE (EDI)	2
Communications	2
The Structure of an Electronic Transmission	3
Transaction Structure	4
NOTATION CONVENTIONS	5
Segment Requirements	5
Element Requirements	5
Data Types	5
Data Element Reference Number	6
PAYMENT ORDER REMITTANCE ADVICE TRANSACTION SET (820)	7
Header Segments (Table 1)	7
Detail Segments (Table 2)	8
Trailer Segment (Table 3)	8
Example Payment Order Remittance Advice Transaction (820)	9
SEGMENT DEFINITIONS	10
ISA Interchange Control Header	10
IEA Interchange Control Trailer	12
GS Functional Group Header	13

GE Functional Group Trailer	14
ST Transaction Set Header	15
BPR Beginning Segment for Payment Order/Remittance Advice	16
TRN Trace	20
CUR Currency	21
REF Reference Identification	24
DTM Date/Time Reference	24
N1 Name	26
N2 Additional Name Information	28
N3 Address Information	29
N4 Geographic Location	30
ENT Entity	31
NM1 Individual or Organizational Name	33
N2 Additional Name Information	35
N3 Address Information	36
N4 Geographic Location	37
ADX Adjustment	38
PER Administrative Communications Contact	40
RMR Remittance Advice Accounts Receivable Open Item Reference	41
REF Reference Identification	43
DTM Date/Time Reference	44
ADX Adjustment	45
PER Administrative Communications Contact	47
SE Transaction Set Trailer	48
THE 820 AND ELECTRONIC FUNDS TRANSFER (EFT)	49

FIGURE 1: TRANSMISSION STRUCTURE	3
FIGURE 2: TRANSACTION STRUCTURE	4

Reference Material

ASCX12 Publications

- Electronic Data Interchange X12 Standards reflecting Version 004 Release 010 (004010), dated December 1997. This publication is available from DISA, 1800 Diagonal Road, Suite 200, Alexandria, VA 22314, (703)548-7005, WWW.DISA.ORG.

ATA Publications

- American Trucking Association's Motor Carrier Industry Guide to Electronic Data Interchange Implementation and Conventions, reflecting Version 004 Release 010 (004010), dated May 1998. This publication is available from the American Trucking Association's Information Technology Council, 2200 Mill Road, Alexandria, VA 22314.

Electronic Data Interchange (EDI)

Communications

Roadway Express, Inc. has developed a bisynchronous communication network that gives our trading partners the ability to transmit EDI transactions directly to Roadway, the method preferred by Roadway. However, if you prefer to use a third party Value Added Network, Roadway prefers Sterling Commerce Network or Kleinschmidt.

The Structure of an Electronic Transmission

An EDI transmission consists of one or more “envelopes” which identify the sender and receiver of the transaction set. ISA and IEA segments mark the beginning and the end of an envelope respectively. Within the envelope, the transaction sets are organized into one or more functional groups bounded by a GS and a GE segment. Figure 1 illustrates the format of an EDI transmission.

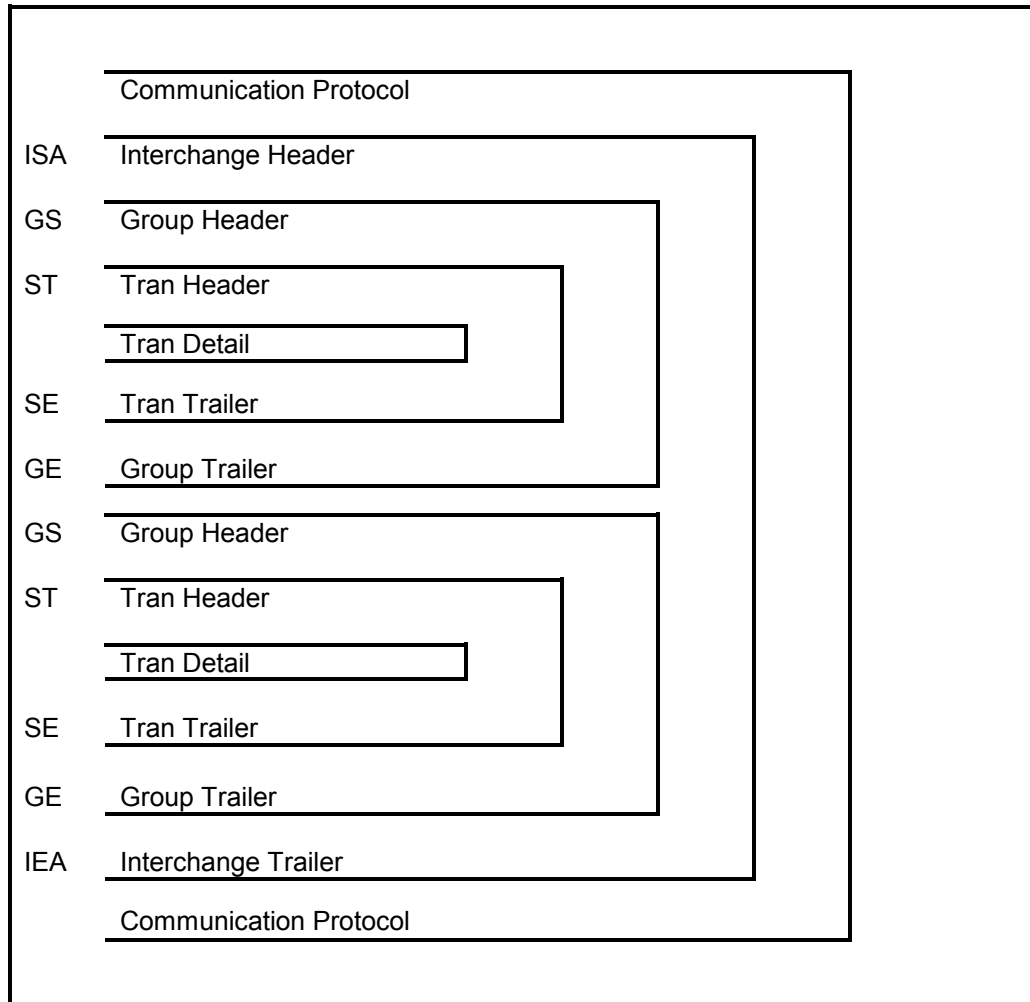


Figure 1: Transmission Structure

Transaction Structure

EDI transaction sets consist of a group of segments (records) arranged in a specific order. Most transactions have header level segments and detail level segments. There can also be repeated sets of segments referred to as loops.

Each segment begins with a segment identifier and ends with a segment terminator. The segment terminator is a special character agreed upon by sender and receiver to define the end of a segment. The most commonly used segment terminator is the hexadecimal '15' in EBCDIC (Extended Binary Coded Decimal Interchange Code) or '85' in ASCII (American Standard Code for Information Exchange).

Data elements (fields) within a segment are delimited by an element separator. The element separator is a special character agreed upon by sender and receiver. The most commonly used element separator is an asterisk (*), a hexadecimal '5C' for EBCDIC or hexadecimal '2A' for ASCII.

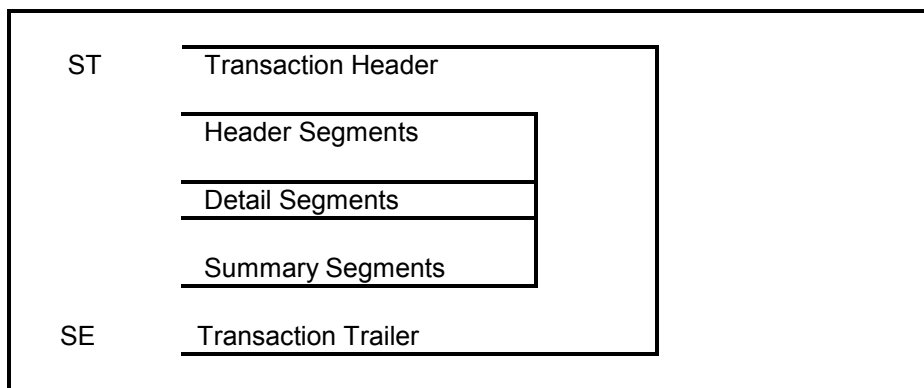


Figure 2: Transaction Structure

Notation Conventions

Segment Requirements

- (M) MANDATORY: The segment must be transmitted.
- (O) OPTIONAL: The segment may be transmitted if needed.

Element Requirements

- (M) MANDATORY: The data element must be transmitted.
- (O) OPTIONAL: The data element may be transmitted, if needed.
- (X) RELATIONAL: The data element's existence or absence is related to the existence or absence of another data element. The relationship is explained by a note following the segment definition. There could also be an alphabetic code to explain the relational condition.
- (Z) SEMANTIC: Refer to the Semantic note(s) for this data element.
- (C) CONDITIONAL: The data element must be transmitted under certain conditions.
- (P) PAIRED or MULTIPLE: If any element is transmitted, then all must be transmitted.
- (R) REQUIRED: At least one of the data elements specified must be transmitted.
- (E) EXCLUSIVE: Not more than one of the data elements specified can be transmitted.
- (L) LIST CONDITIONAL: If the first data element specified is transmitted, then at least one of the others must be transmitted. Any or all elements not specified as the first may be transmitted with the first data element.
- Each data element has a minimum and maximum length requirement.
- In a mandatory numeric data element the minimum characters, as defined in the data dictionary, must be transmitted even if the value is zero.

Data Types

- AN: Alphanumeric data elements containing the numerals 0-9, the characters A-Z and any special characters except asterisk (*), the greater than Sign (>) and the characters with a hexadecimal value of '40' or less. These characters are control characters and should not be used for data. The contents are left-justified. Trailing spaces should be suppressed unless necessary to satisfy the minimum length requirement.
- R: (Real) numeric data containing the numerals 0-9 and a decimal point in the proper position. The decimal point is optional for integer values but required for fractional values. A leading + or - sign may be used. The minus sign must be used for negative values.
- Nn: Numeric data containing the numerals 0-9, and an implied decimal point. The 'N' indicates that the element contains a numeric value and the 'n' indicates the number of decimal places to the right of the implied decimal point. The actual decimal point is not transmitted. A leading + or - sign may be used. The minus sign must be used for negative values. Leading zeroes should be suppressed unless they are necessary to satisfy the minimum number of digits required by the data element specification. For a data element defined as N4 with a minimum length of 4, the value 0.0001 would be transmitted as '0001'. For an N4 data element with the minimum length of 1, the value 0.0001 would be transmitted '1'.
- ID: A data element identifier from a pre-defined list of values maintained by ASC X12.
- DT: Numeric date in the form YYYYMMDD.
- TM: Numeric time in the form HHMM. Time is represented in 24-hour clock format.

Data Element Reference Number

The Data Element Reference Number is a unique identifier used to aid in locating data element definitions in the applicable standards manual.

Payment Order/Remittance Advice Transaction Set (820)

This Standard contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice.

This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Header Segments (Table 1)

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops
ST	Transaction Set Header	M	1		
BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
CUR	Currency	O	1		
REF	Reference Identification	O	>1		
DTM	Date/Time Reference	O	>1		

N1	Name	O	1	0100	
N2	Additional Name Information	O	>1	0100	
N3	Address Information	O	>1	0100	
N4	Geographic Location	O	1	0100	

Detail Segments (Table 2)

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops
ENT	Entity	O	1	0200	
NM1	Individual or Organizational Name Advice	O	1	0210	
N2	Additional Name Information	O	>1	0210	
N3	Address Information	O	>1	0210	
N4	Geographic Location	O	1	0210	
ADX	Adjustment	O	1	0220	
PER	Administrative Communications Contact	O	>1	0220	
RMR	Remittance Advice Accounts Receivable Open Item Reference	O	1	0230	
REF	Reference Identification	O	>1	0230	
DTM	Date/Time Reference	O	>1	0230	
ADX	Adjustment	O	1	0233	
PER	Administrative Communications Contact	O	>1	0233	

Trailer Segment (Table 3)

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops
SE	Transaction Set Trailer	M	1		

Example Payment Order Remittance Advice Transaction (820)

A Check for \$500.00 that will pay 3 freight bills.

ST*820*00001 N/L	Transactions set 820, Control #00001
BPR*I*500*C*PBC N/L	Information Only, \$500.00, Credit to receiver, Pay by Check
REF*CK*123456789 N/L	Check number 123456789
DTM*020*980425 N/L	Check Date, April 25, 1998
N1*PE*ROADWAY EXPRESS, INC. N/L	Payment Receiver, Roadway
N1*PR*ACME ROCKET CO NL	Payment Originator, Acme Rocket Co
RMR*FR*2222***10 N/L	Freight Bill 2222, Payment Amount, \$0 Invoiced Amount, \$10.00
DTM*022*980420 N/L	Freight Bill Date, April 20, 1998
ADX*5*39 N/L	\$5.00 of the adjustment is due to Reason code 39 – which means that the shipper/consignee reference number is missing.
ADX*5*09 N/L	\$5.00 of the adjustment is due to a terms of sale error.
RMR*FR*3333**300.5*300.5 N/L	Freight Bill 3333, Payment Amount, \$300.50 Invoiced Amount \$300.50
DTM*022*980422 N/L	Freight Bill Date, April 22, 1998
RMR*FR*4444**199.5*199.5 N/L	Freight Bill 4444, Payment Amount, \$199.50 Invoiced Amount, \$199.50
DTM*022*980424 N/L	Freight Bill Date, April 24, 1998
SE*15*00001 N/L	15 total segments for Control #00001

Segment Definitions

ISA Interchange Control Header

Level: Control Segment
 Loop: _____
 Usage: Mandatory
 Max Use: 1
 Purpose: To start and identify an interchange of zero or more functional groups and interchange related control segments

Example: ISA*00* *00* *ZZ*78698397 *02*RDWY *980918*1600*U*00400*0022549*0*P>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Info	M	ID	2/2
		<u>Code</u> <u>Definition</u>			
		00 No Authorization information present			
02	I02	Authorization Information Information used for additional identification or authorization of the interchange sender or the data in the interchange. This field should be spaces	M	AN	10/10
03	I03	Security Information Qualifier Code to identify the type of information in the Security information	M	ID	2/2
		<u>Code</u> <u>Definition</u>			
		00 No Security Information			
04	I04	Security Information This is used for identifying the security information about the interchange sender or the data in the interchange. This field should be spaces	M	AN	10/10
05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.	M	ID	2/2
		<u>Code</u> <u>Definition</u>			
		01 Duns Number			
		12 Telephone Number			
		ZZ Mutually Defined			
06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element. Sender's unique ID code	M	AN	15/15

07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.	M	ID	2/2
		<u>Code</u> <u>Definition</u>			
		01 Duns Number			
		02 SCAC (Standard Carrier Alpha Code)			
08	I07	Interchange Receiver ID Identification code published by the receiver of the data	M	AN	15/15
		<u>Code</u> <u>Definition</u>			
		RDWY Roadway Express, Inc.			
09	I08	Interchange Date Creation date of the interchange. (YYMMDD)	M	DT	6/6
10	I09	Interchange Time Creation time of the interchange. (HHMM)	M	TM	4/4
11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.	M	ID	1/1
		<u>Code</u> <u>Definition</u>			
		U USA			
12	I11	Interchange Control Version Number This version number covers the interchange control segments.	M	ID	5/5
		<u>Code</u> <u>Definition</u>			
		00400 Standards issued as ANSI X12.5-1997			
13	I12	Interchange Control Number A control number assigned by the interchange sender. Must Match IEA02	M	NO	9/9
14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1
		<u>Code</u> <u>Definition</u>			
		0 No TA1 requested			
15	I14	Test Indicator Code to indicate whether data enclosed is test or production.	M	ID	1/1
		<u>Code</u> <u>Definition</u>			
		T Test			
		P Production			
16	I15	Component Element Separator Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; <u>this value must be different than the data element separator and the segment terminator.</u>	M		1/1

IEA Interchange Control Trailer

Level: Control Segment
Loop: _____
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange; used with an ISA segment.

Example: IEA*1*0022549 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	I16	Number of included Functional Groups. The number of GS segments included between ISA And IEA.	M	NO	1/5
02	I12	Interchange Control Number. Must Match ISA13.	M	NO	9/9

GS Functional Group Header

Level: Control Segment

Loop: _____

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a functional group and to provide control information

Semantic: 04 GS04 is the group date
 05 GS05 is the group time
 06 The date interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comment: 01 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Example: GS*RA*7843982*RDWY*19980515*0435*0022549*X*004010 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	479	Functional Identifier Code Code identifying a group of application related transaction sets. Always "RA" with the 820 transaction set	M	ID	2/2
02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners Usually Duns Number or Phone Number	M	AN	2/15
03	124	Application Receiver's Code Code identifying party receiving transmission; Codes agreed to by both trading partners This code will ALWAYS be "RDWY" when transmitting 820 with Roadway Express, Inc.	M	AN	2/15
04	373	Date Date (YYYYMMDD)	M	DT	8/8
05	337	Time Time (HHMM)	M	TM	4/8
06	28	Group Control Number Assigned number originated and maintained by the sender.	M	NO	1/9
07	455	Responsible Agency Code Code used in conjunction with data element 480 to identify the issuer of the standard. <u>Code</u> <u>Definition</u> X Accredited Standards Committee X12	M	ID	1/2
08	480	Version / Release / Industry Identifier Code Code indicating the version, release, sub-release, and industry identifier of the EDI standard being used.(00400)	M	AN	1/12

GE Functional Group Trailer

Level: Control Segment
Loop: _____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information

Semantic: 02 The data interchange control number GE02 in trailer must be identical to the same data element in the associated functional group header GS06.

Comment: 01 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Example: GE*1*0022549 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	97	Number of Transactions Sets Included Code identifying a group of application related transaction sets.	M	NO	1/6
02	28	Group Control Number. Must Match GS06	M	NO	1/9

ST Transaction Set Header

Level: Control Segment

Loop:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number.

Semantic: 01 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 820 selects the Remittance Advice Transaction Set).

Example: ST*820*000010003 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set. <u>Code</u> <u>Definition</u> 820 Payment Order/Remittance Advice	M/Z ID 3/3
02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	M AN 4/9

BPR Beginning Segment for Payment Order/Remittance Advice

Level: Header
 Loop:
Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur.

- Syntax: 06 P0607 - If either BPR06 or BPR07 is present, then the other is required.
 08 C0809 - If BPR08 is present, then BPR09 is required.
 12 P1213 - If either BPR12 or BPR13 is present, then the other is required.
 14 C1415 - If BPR14 is present, then BPR15 is required.
 18 P1819 - If either BPR18 or BPR19 is present, then the other is required.
 20 C2021 - If BPR20 is present, then BPR21 is required.
- Semantic: 02 BPR02 specifies the payment amount.
 06 When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.
 06 BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
 08 BPR08 is a code identifying the type of bank account or other financial asset.
 09 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
 12 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
 14 BPR14 is a code identifying the type of bank account or other financial asset.
 15 BPR15 is the account number of the receiving company to be debited or credited with the payment order.
 16 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
 17 BPR17 is a code identifying the business reason for this payment.

Example: BPR*I*9999.99*C*CHK*PBC*01*123456789*DA*12345678987*399999999*****19980101 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
01	305	Transaction Handling Code Code designating the action to be taken by all parties. <div> <div><u>Code</u></div> <div><u>Definition</u></div> </div> C Payment Accompanies Remittance Advice D Make Payment Only H Notification Only I Remittance Information Only P Pre-notification of Future Transfers	M R 1/18
02	782	Monetary Amount Monetary amount	M/Z R 1/18

03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit.	M	ID	1/1
		<u>Code</u> <u>Definition</u> C Credit D Debit			
04	591	Payment Method Code Code identifying the method for the movement of payment instructions	M	ID	3/3
		<u>Code</u> <u>Definition</u> ACH Automated Clearing House (ACH) CHK Check Note: ACH and CHK are the most frequently used codes for Roadway Express, Inc. DCC ACH Demand Cash Concentration/Disbursement (CCD) Credit DCD ACH Demand Cash Concentration/Disbursement (CCD) Debit DXC ACH Demand Corporate Trade Exchange (CTX) Credit DXD ACH Demand Corporate Trade Exchange (CTX) Debit DZC ACH Demand Cash Concentration/Disbursement Plus (CCD+) Credit DZD ACH Demand Cash Concentration/Disbursement Plus (CCD+) Debit FEW Federal Reserve Funds/Wire Transfer - Repetitive FWT Federal Reserve Funds/Wire Transfer – Nonrepetitive			
05	812	Payment Format Code Code identifying the payment format used.	O	ID	1/10
		<u>Code</u> <u>Definition</u> CCD Cash Concentration/Distribution (CCD)(ACH) CCP Cash Concentration/Distribution plus Addenda (CCD+)(ACH) CTP Corporate Trade Payment (CTP)(ACH) CTX Corporate Trade Exchange (CTX)(ACH) PBC Commercial/Corporate Check PPD Prearranged Payment and Deposit (PPD+)(ACH) PPP Prearranged Payment and Deposit plus Addenda (PPD+)(ACH)			

06	506	(DFI) ID Number Qualifier Code identifying the type of identification number of Depository Financial Institution (DFI).	X/Z	ID	2/2
<u>Code</u> <u>Definition</u> 01 ABA Transit Routing Number Including Check Digits (9 digits)					
07	507	(DFI) Identification Number Depository Financial Institution (DFI) identification number.	X	AN	3/12
08	569	Account Number Qualifier Code indicating the type of account.	O/Z	ID	1/3
<u>Code</u> <u>Definition</u> DA Demand Deposit					
09	508	Account Number Account number assigned.	X/Z	AN	1/35
10	509	Originating Company Identifier A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9.	O	AN	10/10
11	510	Originating Company Supplemental Code A code defined between the originating company and the originating depository financial institution (ODFI) that uniquely identifies the company initiating the transfer instructions.	O	AN	9/9
12	506	(DFI) ID Number Qualifier Code identifying the type of identification number of Depository Financial Institution (DFI).	X/Z	ID	2/2
<u>Code</u> <u>Definition</u> 01 ABA Transit Routing Number Including Check Digits (9 digits)					
13	507	(DFI) Identification Number Depository Financial Institution (DFI) identification number.	X	AN	3/12
14	569	Account Number Qualifier Code indicating the type of account.	O/Z	ID	1/3
<u>Code</u> <u>Definition</u> DA Demand Deposit					
15	508	Account Number Account number assigned.	X/Z	AN	1/35
16	373	Date Date expressed as YYYYMMDD	O/Z	DT	8/8

17	1048	Business Function Code Code identifying the business reason for this payment.	O/Z	ID	1/3
		<u>Code</u> <u>Definition</u>			
		VEN Vendor Payment			
18	506	(DFI) ID Number Qualifier Code identifying the type of identification number of Depository Financial Institution (DFI).	X	ID	2/2
19	507	(DFI) Identification Number Depository Financial Institution (DFI) identification number.	X	AN	3/12
20	569	Account Number Qualifier Code indicating the type of account.	O	ID	1/3
21	508	Account Number Account number assigned.	X	AN	1/35

Note: BPR05, 06, 07, 08, 09, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, and, 21, are not required by Roadway Express.

TRN Trace

Level: Header

Loop:

Usage: Optional

Max Use: 1

Purpose: To uniquely identify a transaction to an application.

Semantic: 02 TRN02 provides unique identification for the transaction.

03 TRN03 identifies an organization.

04 TRN04 identifies a further subdivision within the organization.

Comment: 01 The TRN segment is used to uniquely identify a payment order/remittance advice.

Example: TRN*1*123456789 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	481	Trace Type Code Code identifying which transaction is being referenced. <u>Code</u> <u>Definition</u> 1. Current Transaction Trace Numbers 2. Referenced Transaction Trace Numbers 3. Financial Re-association Trace Number	M	ID	1/2
02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	M/Z	AN	1/30
03	509	Originating Company Identifier A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9.	O/Z	AN	10/10
04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	O/Z	AN	1/30

CUR Currency

Level: Header

Loop:

Usage: Optional

Max Use: 1

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction.

Set Notes: 01 The CUR segment does not initiate a foreign exchange transaction.

Syntax:

- 08 C0807 – If CUR08 is present, then CUR07 is required.
- 09 C0907 – If CUR09 is present, then CUR07 is required.
- 10 L101112 – If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 11 C1110 – If CUR11 is present, then CUR10 is required.
- 12 C1210 – If CUR12 is present, then CUR10 is required.
- 13 L131415 – If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 14 C1413 – If CUR14 is present, then CUR13 is required.
- 15 C1513 – If CUR 15 is present, then CUR13 is required.
- 16 L161718 – If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 17 C1716 – If CUR17 is present, then CUR16 is required.
- 18 C1816 – If CUR18 is present, then CUR16 is required.
- 19 L192021 – If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 20 C2019 – If CUR20 is present, then CUR19 is required.
- 21 C2119 – If CUR21 is present, then CUR19 is required.

Example: CUR*MC*USD*1.200*SH*CAD*NYC*007*19980101*1630 N/L

1 2 3 4

Note:

1. Identifies the buyers (BY) currency as U.S. dollars (USD).
2. The multiplier (1.20) is the exchange rate factor for the conversion.
3. Identifies the seller's (SH) currency as Canadian dollars (CAD).
4. Indicates the basis for the exchange rate as the New York Foreign Exchange (NYC) and the effective date/time (007) as April 1, 1995 (950401) at 2:00 P.M. (1400)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
01	98	Entity Identifier Code Code identifying an organizational entity, physical location, property or an individual.	M ID 2/3
		<u>Code</u> <u>Definition</u>	
		MC Motor Carrier	

02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified.	M	ID	3/3														
03	280	Exchange Rate Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.	O	R	4/10														
04	98	Entity Identifier Code Code identifying an organizational entity, physical location, property or an individual.	O	ID	2/3														
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>BS</td><td>Bill and Ship To</td></tr><tr><td>BT</td><td>Bill-to-Party</td></tr><tr><td>CN</td><td>Consignee</td></tr><tr><td>OC</td><td>Origin Carrier</td></tr><tr><td>PF</td><td>Party to Receive Freight Bill</td></tr><tr><td>SH</td><td>Shipper</td></tr></table>						<u>Code</u>	<u>Definition</u>	BS	Bill and Ship To	BT	Bill-to-Party	CN	Consignee	OC	Origin Carrier	PF	Party to Receive Freight Bill	SH	Shipper
<u>Code</u>	<u>Definition</u>																		
BS	Bill and Ship To																		
BT	Bill-to-Party																		
CN	Consignee																		
OC	Origin Carrier																		
PF	Party to Receive Freight Bill																		
SH	Shipper																		
05	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified.	O	ID	3/3														
06	669	Currency Market/Exchange Code Code identifying the market upon which the currency exchange rate is based.	O	ID	3/3														
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>NYC</td><td>New York Foreign Exchange</td></tr></table>						<u>Code</u>	<u>Definition</u>	NYC	New York Foreign Exchange										
<u>Code</u>	<u>Definition</u>																		
NYC	New York Foreign Exchange																		
07	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	X	ID	3/3														
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>1</td><td>Effective</td></tr></table>						<u>Code</u>	<u>Definition</u>	1	Effective										
<u>Code</u>	<u>Definition</u>																		
1	Effective																		
08	373	Date Date expressed as YYYYMMDD	O	DT	8/8														
09	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	O	TM	4/8														
10	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	X	ID	3/3														
11	373	Date Date expressed as YYYYMMDD.	X	DT	8/8														

12	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8
13	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	X	ID	3/3
14	373	Date Date expressed as YYYYMMDD.	X	DT	8/8
15	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8
16	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	X	ID	3/3
17	373	Date Date expressed as YYYYMMDD.	X	DT	8/8
18	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8
19	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	X	ID	3/3
20	373	Date Date expressed as YYYYMMDD.	X	DT	8/8
21	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8

REF Reference Identification

Level: Header

Loop:

Usage: Optional

Max Use: 1>

Purpose: To specify identifying information.

Syntax: 02 R0203 – At least one of REF02 or REF03 is required.

Semantic: 04 REF04 contains data relating to the value cited in REF02.

Example: REF*CK*12354 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	128	Reference Identification Qualifier Code qualifying the Reference Identification. <u>Code</u> <u>Definition</u> BT Batch Number CK Check Number CR Customer Reference Number EF Electronic Funds Transfer ID Number FR Freight Bill Number OI Original Invoice Number R4 Tariff Section Number SI Shipper's Identifying Number for Shipment (SID) TN Transaction Reference Number	M	ID	2/3
02	127	Reference Identification Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier.	M/Z	AN	1/30
03	352	Description A free-form description to clarify the related data elements and their content.	X	AN	1/80
04	040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier.	O/Z		

DTM Date/Time Reference

Level: Header
 Loop:
Usage: Optional
 Max Use: >1
 Purpose: To specify pertinent dates and times.

Syntax: 02 R020305 – At least one of DTM02, DTM03 or DTM05 is required.
 04 C0403 – If DTM04 is present, then DTM03 is required.
 05 P0506 – If either DTM05 or DTM06 is present, then the other is required.

Example: DTM*003*19981225 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. <u>Code</u> <u>Definition</u> 003 Invoice 097 Transaction Creation 234 Settlement Date	M	ID	3/3
02	373	Date Date expressed as YYYYMMDD.	X	DT	8/8
03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8
04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O	ID	2/2
05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format.	X	ID	2/3
06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times.	X	AN	1/35

N1 Name

Level: Header

Loop: 0100

Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name, and code.

Set Notes: 01 The N1 loop allows for name/address information for the payer and payee, which would be utilized to address remittance(s) for delivery.

Syntax: 02 R0203 - At least one of N102 or N103 is required.

03 P0304 - If either N103 or N104 is present, then the other is required.

Comment: 01 This segment, used alone, provides the most efficient method of providing organizational identification. **To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.**

Example: N1*PE*SOMECOMPANY NAME, INC. N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	M	ID	2/3
		<u>Code</u> <u>Definition</u>			
		PE Payee			
		PR Payer			
02	93	Name Free-form name.	X	AN	1/60
03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	X	ID	1/2
		<u>Code</u> <u>Definition</u>			
		1 D-U-N-S Number, Dun & Bradstreet			
		2 Standard Carrier Alpha Code (SCAC)			
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix			
		18 Automotive Industry Action Group (AIAG)			
		25 Carrier's Customer Code			
		93 Code assigned by the organization originating the transaction set Payee			
		94 Code assigned by the organization that is the ultimate destination of the transaction set			

04	67	Identification Code Code identifying a party or other code.	X	AN	2/80
05	706	Entity Relationship Code Code describing entity relationship.	O	ID	2/2
06	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	O	ID	2/3

N2 Additional Name Information

Level: Header
Loop: 0100
Usage: Optional
Max Use: >1
Purpose: To specify additional names or those longer than 60 characters in length.

Example: N2*DOCK#4 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	93	Name Free-form name.	M	AN	1/60
02	93	Name Free-form name.	O	AN	1/60

N3 Address Information

Level: Header
Loop: N1
Usage: Optional
Max Use: >1
Purpose: To specify the location of the named party.

Example: N3*P.O. BOX 12345 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	166	Address Information The address of the entity described in the N101.	M	AN	01/55
02	166	Address Information.	O	AN	01/55

N4 Geographic Location

Level: Header
 Loop: N1
Usage: Optional
 Max Use: 1
 Purpose: To specify the geographic place of the named party.

Syntax: 06 C0605 - If N406 is present, then N405 is required.

Comment: 01 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 02 N402 is required only if city name (N401) is in the U.S. or Canada.

Example: N4*OVERLAND PARK*KS*66217 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	19	City Name Free-form text for city name.	O	AN	02/30
02	156	State/Province Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	02/2
03	116	Postal Code Code defining the international postal zone code excluding punctuation and blanks (zip code for United States).	O	ID	03/15
04	26	Country Code Code identifying the country If other than the United States.	O	ID	02/3
05	309	Location Qualifier Code identifying the type of location.	X	ID	01/2
06	310	Location Identifier Code which identifies a specific location.	O	AN	01/30

ENT Entity

Level: Detail

Loop: ENT

Usage: Optional

Max Use: 1

Purpose: To designate the entities which are parties to a transaction and specify a reference meaningful to those entities.

- Set Notes: 01 The ENT loop is for vendor or consumer third party consolidated payments.
 02 ENT09 may contain the payee's accounts receivable customer number.
- Syntax: 02 P020304 - If ENT02, ENT03 or ENT04 are present, then the others are required.
 05 P050607 - If either ENT05, ENT06 or ENT07 are present, then the others are required.
 08 P0809 - If either ENT08 or ENT09 is present, then the other is required.
- Comment: 01 The ENT segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:
 02 (1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
 03 (2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
 04 (3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
 05 Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.
 06 The ENT segment also allows for the transmission of a unique reference number that is meaningful between the entities.

Example: ENT*1 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes								
01	554	Assigned Number Number assigned for differentiation within a transaction set.	O	N0	1/6						
02	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	X	ID	2/3						
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>AO</td><td>Account Of</td></tr><tr><td>CF</td><td>Subsidiary/Division</td></tr></table>						<u>Code</u>	<u>Definition</u>	AO	Account Of	CF	Subsidiary/Division
<u>Code</u>	<u>Definition</u>										
AO	Account Of										
CF	Subsidiary/Division										

03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	X	ID	1/2
		<u>Code</u> <u>Definition</u>			
		1 D-U-N-S Number, Dun & Bradstreet			
		2 Standard Carrier Alpha Code (SCAC)			
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix			
		93 Code assigned by the organization originating the transaction set.			
		94 Code assigned by the organization that is the ultimate destination of the transaction set.			
04	67	Identification Code Code identifying a party or other code.	X	AN	2/80
05	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	X	ID	2/3
06	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	X	ID	1/2
07	67	Identification Code Code identifying a party or other code.	X	AN	2/80
08	128	Reference Identification Qualifier Code qualifying the Reference Identification.	X	ID	2/3
09	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X	AN	1/30

NM1 Individual or Organizational Name

Level: Detail
 Loop: ENT/NM1
Usage: Optional
 Max Use: 1
 Purpose: To supply the full name of an individual or organizational entity.

Set Notes: 01 Allowing the NM1 segment to repeat in this area allows the paying entity within a payer and the paid entity within a payee to be identified (not the payer and payee).

Syntax: 08 P0809 - If either NM108 or NM109 is present, then the other is required.
 11 C1110 - If NM111 is present, then NM110 is required.

Semantic: 02 NM102 qualifies NM103.

Example: NM1*CN*1*JOHN DOE N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	M	ID	2/3
		<u>Code</u> <u>Definition</u>			
		AO Account Of			
		CN Consignee			
		SH Shipper			
02	1065	Entity Type Qualifier Code qualifying the type of entity.	M/Z	ID	1/1
		<u>Code</u> <u>Definition</u>			
		1 Person			
		2 Non-Person Entity			
		3 Unknown			
		4 Corporation			
		5 Trust			
		6 Organization			
		7 Limited Liability Corporation			
		8 Partnership			
		9 S Corporation			
		C Custodial			
		D Non-Profit Organization			
		E Sole Proprietorship			
		G Government			
		L Limited Partnership			
03	1035	Name Last or Organization Name Individual last name or organizational name	O	AN	1/35

04	1036	Name First Individual first name.	O	AN	1/25										
05	1037	Name Middle Individual middle name or initial.	O	AN	1/25										
06	1038	Name Prefix Prefix to individual name.	O	AN	1/10										
07	1039	Name Suffix Suffix to individual name.	O	AN	1/10										
08	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	X	ID	1/2										
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>1</td><td>D-U-N-S Number, Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td></tr><tr><td>93</td><td>Code assigned by the organization originating the transaction set.</td></tr><tr><td>94</td><td>Code assigned by the organization that is the ultimate destination of the transaction set.</td></tr></table>						<u>Code</u>	<u>Definition</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	93	Code assigned by the organization originating the transaction set.	94	Code assigned by the organization that is the ultimate destination of the transaction set.
<u>Code</u>	<u>Definition</u>														
1	D-U-N-S Number, Dun & Bradstreet														
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix														
93	Code assigned by the organization originating the transaction set.														
94	Code assigned by the organization that is the ultimate destination of the transaction set.														
09	67	Identification Code Code identifying a party or other code.	X	AN	2/80										
10	706	Entity Relationship Code Code describing entity relationship.	X	ID	2/2										
11	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	O	ID	2/3										

N2 Additional Name Information

Level: Detail

Loop: ENT/NM1

Usage: Optional

Max Use: >1

Purpose: To specify additional names or those longer than 60 characters in length.

Example: N2*ADDITIONAL N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	93	Name Free-form name.	M	AN	1/60
02	93	Name Free-form name.	O	AN	1/60

N3 Address Information

Level: Detail
Loop: ENT/NM1
Usage: Optional
Max Use: >1
Purpose: To specify the location of the named party.

Example: N3*2200 MILL ROAD N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	166	Address Information The address of the entity described in the N101.	M	AN	01/55
02	166	Address Information.	O	AN	01/55

N4 Geographic Location

Level: Detail

Loop: ENT/NM1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party.

Syntax: 06 C0605 - If N406 is present, then N405 is required.

Comment: 01 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

02 N402 is required only if city name (N401) is in the U.S. or Canada.

Example: N4*ALEXANDRIA*VA*22314 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	19	City Name Free-form text for city name.	O	AN	02/30
02	156	State/Province Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	02/2
03	116	Postal Code Code defining the international postal zone code excluding punctuation and blanks (zip code for United States).	O	ID	03/15
04	26	Country Code Code identifying the country If other than the United States.	O	ID	02/3
05	309	Location Qualifier Code identifying the type of location.	X	ID	01/2
06	310	Location Identifier Code which identifies a specific location.	O	AN	01/30

ADX Adjustment

Level: Detail
Loop: ENT/ADX

Usage: Optional

Max Use: 1

Purpose: To convey accounts-payable adjustment information for the purpose of cash application, including payer-generated debit/credit memos.

Set Notes: 01 This ADX loop contains adjustment items, which are not netted to an RMR segment in this transaction set.

Syntax: 03 P0304 - If either ADX03 or ADX04 is present, then the other is required.

Semantic: 01 ADX01 specifies the amount of the adjustment and must be signed if negative. If negative, it reduces the payment amount; if positive, it increases the payment amount.

02 ADX02 specifies the reason for claiming the adjustment.

03 ADX03 and ADX04 specify the identification of the adjustment.

Example: ADX*22.50*01*CN*1234567 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	782	Monetary Amount Monetary amount.	M	R	1/18
02	426	Adjustment Reason Code Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment. <div> <div>Code</div> <div>Definition</div> <div>1</div> <div>Pricing Error</div> <div>3</div> <div>Extension Error</div> <div>09</div> <div>Terms of Sale Error</div> <div>19</div> <div>Duplicate Billing</div> <div>21</div> <div>Shipment Method of Payment Incorrect</div> <div>39</div> <div>Shipper/Consignee Ref. Number Missing</div> <div>45</div> <div>State Bill Over 180 Days Old</div> </div>	M	ID	2/2
03	128	Reference Identification Qualifier Code qualifying the Reference Identification. <div> <div>Code</div> <div>Definition</div> <div>BM</div> <div>Bill of Lading Number</div> <div>CN</div> <div>Carrier's Reference Number (PRO/Invoice)</div> <div>MB</div> <div>Master Bill of Lading</div> <div>SI</div> <div>Shipper's Identifying Number for Shipment (SID)</div> </div>	X	ID	2/3
04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X	AN	1/30

PER Administrative Communications Contact

Level: Detail
 Loop: ENT/ADX
Usage: Optional
 Max Use: >1
 Purpose: To identify a person or office to whom administrative communications should be directed.

Syntax: 03 P0304 - If either PER03 or PER04 is present, then the other is required.
 05 P0506 - If either PER05 or PER06 is present, then the other is required.
 07 P0708 - If either PER07 or PER08 is present, then the other is required.

Example: PER*AP*SALLY DOE*TE*1112223333 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. <u>Code</u> <u>Definition</u> AP Accounts Payable Department CN General Contact	M	ID	2/2
02	93	Name Free-form name.	O	AN	1/60
03	365	Communication Number Qualifier Code identifying the type of communication number. <u>Code</u> <u>Definition</u> FX Facsimile TE Telephone	X	ID	2/2
04	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
05	365	Communication Number Qualifier Code identifying the type of communication number.	X	ID	2/2
06	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
07	365	Communication Number Qualifier Code identifying the type of communication number.	X	ID	2/2
08	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number.	O	AN	1/20

RMR Remittance Advice Accounts Receivable Open Item Reference

Level: Detail
 Loop: ENT/RMR
Usage: Optional
 Max Use: 1
 Purpose: To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail.

Set Notes: 01 Loop RMR is for open items being referenced or for payment on account.

Syntax: 01 P0102 - If either RMR01 or RMR02 is present, then the other is required.
 07 P0708 - If either RMR07 or RMR08 is present, then the other is required.

Semantic: 03 If RMR03 is present, it specifies how the cash is to be applied.
 04 RMR04 is the amount paid.
 05 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
 06 RMR06 is the amount of discount taken.
 08 RMR08 if present, represents an interest penalty payment, amount last interest paid, or amount anticipation.

Comment: 01 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
 03 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
 05 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.

Example: RMR*CN*123456789*PO*999.99 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	128	Reference Identification Qualifier Code qualifying the Reference Identification.	X	ID	2/3
		<u>Code</u> <u>Definition</u>			
		BM Bill of Lading Number			
		CN Carrier's Reference Number (PRO/Invoice)			
		SI Shipper's Identifying Number for Shipment (SID)			
02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X	AN	1/30

03	482	Payment Action Code Code specifying the accounts receivable open item(s), if any, to be included in the cash application.	O/Z	ID	2/2
		<u>Code</u> <u>Definition</u>			
		ER Evaluated Receipts Settlement			
		PA Payment in Advance			
		PO Payment on Account			
		PP Partial Payment			
04	782	Monetary Amount Monetary amount.	O/Z	R	1/18
05	782	Monetary Amount Monetary amount.	O/Z	R	1/18
06	782	Monetary Amount Monetary amount.	O/Z	R	1/18
07	426	Adjustment Reason Code Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment.	X	ID	2/2
08	782	Monetary Amount Monetary amount.	X/Z	R	1/18

Note: Roadway Express, Inc prefers RMR information.

REF Reference Identification

Level: Detail
 Loop: RMR
Usage: Optional
 Max Use: >1
 Purpose: To specify identifying information.

Syntax: 02 R0203 - At least one of REF02 or REF03 is required.

Semantic: 04 REF04 – Contains data relating to the value cited in REF02

Example: REF*CK*12354 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	128	Reference Identification Qualifier Code qualifying the Reference Identification. <u>Code</u> <u>Definition</u> CK Check Number EF Electronic Funds Transfer ID Number FR Freight Bill Number R4 Tariff Section Number SI Shipper's Identifying Number for Shipment (SID) TN Transaction Reference Number	M	ID	2/3
02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X	AN	1/30
03	352	Description A free-form description to clarify the related data elements and their contents.	X	AN	1/80
04	040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier.	O/Z		

Note: Roadway Express, Inc prefers REF information. See Example above.

DTM Date/Time Reference

Level: Detail
 Loop: ENT/RMR
Usage: Optional
 Max Use: >1
 Purpose: To specify pertinent dates and times.

Syntax: 02 R020305 - At least one of DTM02, DTM03 or DTM05 is required.
 04 C0403 - If DTM04 is present, then DTM03 is required.
 05 P0506 - If either DTM05 or DTM06 is present, then the other is required.

Example: DTM*097*19981201 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. <u>Code</u> <u>Definition</u> 22 Freight Bill 95 Bill of Lading 097 Transaction Creation	M	ID	3/3
02	373	Date Date expressed as YYYYMMDD.	X	DT	8/8
03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	X	TM	4/8
04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O	ID	2/2
05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format.	X	ID	2/3
06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times.	X	AN	1/35

ADX Adjustment

Level: Detail

Loop: ENT/RMR/ADX

Usage: Optional

Max Use: 1

Purpose: To convey accounts-payable adjustment information for the purpose of cash application, including payer-generated debit/credit memos.

Set Notes: 01 This ADX loop contains adjustment items, which are not netted to an RMR segment in this transaction set.

Syntax: 03 P0304 - If either ADX03 or ADX04 is present, then the other is required.

Semantic: 01 ADX01 specifies the amount of the adjustment and must be signed if negative. If negative, it reduces the payment amount; if positive, it increases the payment amount.

02 ADX02 specifies the reason for claiming the adjustment.

03 ADX03 and ADX04 specify the identification of the adjustment.

Example: ADX*10.02*01 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	782	Monetary Amount Monetary amount.	M	R	1/18
02	426	Adjustment Reason Code Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment.	M	ID	2/2
		<u>Code</u> <u>Definition</u>			
		01 Pricing Error			
		03 Extension Error			
		09 Terms of Sale Error			
		19 Duplicate Billing			
		21 Shipment Method of Payment Incorrect			
		39 Shipper/Consignee Ref. Number Missing			
		45 State Bill Over 180 Days Old			
03	128	Reference Identification Qualifier Code qualifying the Reference Identification.	X	ID	2/3
		<u>Code</u> <u>Definition</u>			
		BM Bill of Lading Number			
		CN Carrier's Reference Number (PRO/Invoice)			
		MB Master Bill of Lading			
		SI Shipper's Identifying Number for Shipment (SID)			
04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X	AN	1/30

PER Administrative Communications Contact

Level: Detail
 Loop: ENT/RMR/ADX
Usage: Optional
 Max Use: >1
 Purpose: To identify a person or office to whom administrative communications should be directed.

Syntax: 03 P0304 - If either PER03 or PER04 is present, then the other is required.
 05 P0506 - If either PER05 or PER06 is present, then the other is required.
 07 P0708 - If either PER07 or PER08 is present, then the other is required.

Example: PER*AP*JANE DOE*TE*1112223333 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. <u>Code</u> <u>Definition</u> AP Accounts Payable Department CN General Contact	M	ID	2/2
02	93	Name Free-form name.	O	AN	1/60
03	365	Communication Number Qualifier Code identifying the type of communication number. <u>Code</u> <u>Definition</u> FX Facsimile TE Telephone	X	ID	2/2
04	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
05	365	Communication Number Qualifier Code identifying the type of communication number.	X	ID	2/2
06	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
07	365	Communication Number Qualifier Code identifying the type of communication number.	X	ID	2/2
08	364	Communication Number Complete communications number including country or area code when applicable.	X	AN	1/80
09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number.	O	AN	1/20

SE Transaction Set Trailer

Level: Summary

Loop:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comment: 01 SE is the last segment of each transaction set.

Example: SE*24*000010003 N/L

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	96	Number of Included Sets Total number of segments included in a transaction set including ST and SE segments.	M	NO	01/10
02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	M	AN	04/09

THE 820 AND ELECTRONIC FUNDS TRANSFER (EFT)

Roadway Express, Inc. encourages the use of electronic funds transfers. If a trading partner wishes to combine electronic remittance advice with electronic funds transfers via the Automated Clearing House (ACH) Network, Roadway Express, Inc. will support the following three scenarios:

- 1.) The trading partner sends the ANSI X-12 820 file directly to Roadway Express, via Dial-Up or Value-Added-Network (VAN), and their originating bank will send the payment information to Roadway Express bank via the ACH Network.
- 2.) The trading partner sends payment information and remittance advice to their originating bank in a NACHA format (CTX). The originating bank splits the 820 out of the CTX and sends it directly to Roadway Express via Dial-Up or VAN. The payment information is then forwarded to Roadway Express' bank via the ACH Network.
- 3.) The trading partner sends payment information and remittance advice to their originating bank in a NACHA format (CTX). The originating bank does not split the package, but forwards the entire CTX to Roadway Express' bank via the ACH Network. Roadway Express' bank then splits the 820 out and sends it to Roadway Express via Dial-up or VAN.