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	INDEX OF SHEETS					
No.	DESCRIPTION					
Sheets	Title Sheets					
A.1	Title Sheet					
Sheets	Typical Cross Sections and Details					
B.1 - 2	Typical Cross Sections and Details					
Sheets	Quantities and General Information					
C.1 - 2	Item Quantities and Estimate Reference Information					
C.3 - 6	Item Tabulations					
Sheet	Traffic Control					
J.1	Traffic Control Information					
Sheets	Detail Sheets					
* U.1 - 4	Grooving Details for Line Types					
U.5 - 6	Pav't Marking Details for Parking Areas					
U.7	As-Built Information					

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. Mark Mark 19943 Mark Signature Date Printed or Typed Name Mark K. Harle My license renewal date is December 31, 2023 Pages or sheets covered by this seal: ALL	ROADWAY DESIGN						
Pages or sheets covered by this seal:ALL	Mark Mark K. Harle 19943	I hereby certify that this engineering of by me or under my direct personal su am a duly licensed Professional Engine the State of Iowa. Signature Mark K. Harle Printed or Typed Name My license renewal date is December	r 31, 2023				
	Pages or sheets covered by this seal: ALL						





НМА	TYPICAL CROSS SECTION 2602-C RESURFACING WITH MILLING MODIFIED
	Notes: ① Finished slope of the driving lanes shall be no less than 2% minimum and no more than 3% maximum.
	Cross-slope correction shall be done by pavement scarification and shall not reduce the current usuable curb and gutter height or reduce thickness of the intermediate or surface course.
//	② Pavement scarification and surface course for parking areas shall be 1.5 inches.
	③ Tack Coat estimated for 2 applications. Not a bid Item.
	 Quantities in Division 2 except where noted otherwise.
\supset	(5) All quantities in Division 1.
2	(6) L_2 quantities in Division 1.
	\bigodot R ₂ quantities in Division 1.
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5)	
7)	
5	
5) 5)	
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I	

6	SHEET NUMBER B.2	

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

				Quantities			
Item Code	Item	Unit		Estimated		Esti	
			Division 1	Division 2	Total		
2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	0.9		0.9	This bid item includes: 0.9 miles of two lane roadway	
2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	174		174	Refer to Tabulation 102-6C (Repair).	
2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	14		14	Refer to Tabulation 102-6C (Repair).	
2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	50		50	Bid item is for repair of scarified surface Quantity includes material for temporary for staging notes.	
2214-5145160	PAVEMENT SCARIFICATION	TON	3,524.6	113.5	3,638.1	Refer to Typical Sections 2602-A, 2602 Quantity in Division 2 is for milling the e highway through-lanes between the 5th All milled material shall become propert	
2303-1042500	HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	2,057.7		2,057.7	Refer to Typical Sections 2602-A, 2602- Quantity in Division 2 is for resurfacing of between the 5th Ave. intersection and 7 Quantity includes an additional 5% to ac	
2303-1043503	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L- 3	TON	1,641.4	121.3	1,762.7		
2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	221.9	7.3	229.2	Refer to Typical Sections 2602-A, 2602 Quantity is 6% of all HMA items. Quantity in Division 2 is is for resurfacin between the 5th Ave. intersection and 7	
2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1		1		
2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	4,389.8		4,389.8		
2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	1		1	Refer to Tabulation 104-10.	
2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH	16		16	Refer to Tabulation 104-10.	
	Item Code 2212-0475095 2212-5070310 2212-5070300 2212-5075001 2212-5075001 2212-5075001 2213-5075001 2214-5145160 2303-1042500 2303-1043503	Item CodeItem2212-0475095CLEANING AND PREPARATION OF BASE2212-5070310PATCHES, FULL-DEPTH REPAIR2212-5070330PATCHES BY COUNT (REPAIR)2212-5075001HOT MIX ASPHALT SURFACE PATCHES2214-5145160PAVEMENT SCARIFICATION2303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX2303-1043503HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-32303-1258284ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC2303-6911000HOT MIX ASPHALT PAVEMENT SAMPLES2317-7000120PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)2435-060010MANHOLE ADJUSTMENT, MINOR2435-0600110INTAKE ADJUSTMENT, MINOR	Item CodeItemUnit2212-0475095CLEANING AND PREPARATION OF BASEMILE2212-5070310PATCHES, FULL-DEPTH REPAIRSY2212-5070330PATCHES BY COUNT (REPAIR)EACH2212-5075001HOT MIX ASPHALT SURFACE PATCHESTON2214-5145160PAVEMENT SCARIFICATIONTON2303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIXTON2303-1043503HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L 3TON2303-1258284ASPHALT BINDER, PG 58-28H, HIGH TRAFFICTON2303-6911000HOT MIX ASPHALT PAVEMENT SAMPLESLS2317-700120PAYMENT ADJUSTMENT PAYMENT ADJUSTMENT, MINOREACH2435-060010MANHOLE ADJUSTMENT, MINOREACH2435-060010MANHOLE ADJUSTMENT, MINOREACH2435-060010MANHOLE ADJUSTMENT, MINOREACH	Item CodeItemUnit2212-0475095CLEANING AND PREPARATION OF BASEMILE0.92212-075005CLEANING AND PREPARATION OF BASEMILE0.92212-5070310PATCHES, FULL-DEPTH REPAIRSY1742212-5070301PATCHES BY COUNT (REPAIR)EACH142212-5075001HOT MIX ASPHALT SURFACE PATCHESTON502214-5145160PAVEMENT SCARIFICATIONTON3.524.62303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIXTON2.057.72303-1043503HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L 3TON1.641.42303-1258284ASPHALT BINDER, PG 58-28H, HIGH TRAFFICTON221.92303-6911000HOT MIX ASPHALT PAVEMENT SAMPLESLS12303-6911000HOT MIX ASPHALT PAVEMENT SAMPLESLS12303-6911000HOT MIX ASPHALT PAVEMENT SAMPLESEACH4.389.82435-060010MANHOLE ADJUSTMENT, MINOREACH12435-0600110INTAKE ADJUSTMENT, MINOREACH16	Item CodeItemUnitCulariting Estimated2212-0475095CLEANING AND PREPARATION OF BASEMILE0.90ivision 1Division 22212-5070310PATCHES, FULL-DEPTH REPAIRSY174142212-5070300PATCHES, FULL-DEPTH REPAIREACH14142212-5070301PATCHES, BY COUNT (REPAIR)EACH14142212-5075001HOT MIX ASPHALT SURFACE PATCHESTON50113.52203-1042500HOT MIX ASPHALT SURFACE PATCHESTON3.524.6113.52303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIXTON2.057.71.641.42303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, FRICTION L 3TON1.641.4121.32303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, FRICTION L 3TON1.641.4121.32303-1042500HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, FRICTION L 3TON1.641.4121.32303-1042500HOT MIX ASPHALT DAVEMENT SAMPLES INFACE COURSE, 1/2 IN. MIX, FRICTION L 3TON2.21.97.32303-104303HOT MIX ASPHALT DAVEMENT SAMPLES INFACE COURSE, 1/2 IN. MIX, FRICTION L 3TON1.641.41.21.32303-6911000HOT MIX ASPHALT PAVEMENT SAMPLES 	Item Code Item Unit Estimated 2212-0475095 CLEANING AND PREPARATION OF BASE MILE 0.9 0.9 2212-0475095 CLEANING AND PREPARATION OF BASE MILE 0.9 0.9 2212-0475095 CLEANING AND PREPARATION OF BASE MILE 0.9 0.9 2212-5070310 PATCHES, FULL-DEPTH REPAIR SY 174 174 2212-5070301 PATCHES BY COUNT (REPAIR) EACH 14 14 2212-507501 HOT MIX ASPHALT SURFACE PATCHES TON 50 50 2214-5145160 PAVEMENT SCARIFICATION TON 3.524.6 113.5 3.638.1 2303-1042500 HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION I- 3 TON 2.057.7 2.057.7 2303-1043503 HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION I- 3 TON 1.641.4 121.3 1.762.7 2303-1043500 HOT MIX ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC TON 2.057.7 2.057.7 2303-1043501 HOT MIX ASPHALT PAVEMENT SAMPLES LS 1 1	

Design Team :Harle/**Stanley** County Name :Cedar Project Number:NHSN-030-8(49)--2R-16 11/17/2023 2:0

Division 1 : Iowa DOT Division 2 : City of Clarence

imate Reference Notes

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y HMA wedges for side streets and entrances. Refer to J Sheets

P-B, and 2602-C, Typical 7305-A, and Tabulation 102-5.

existing pavement designated as parking areas adjacent to the Ave. intersection and 7th Ave. intersection.

ty of the contractor.

2-B, and 2602-C.

of the parking areas adjacent to the highway through-lanes 7th Ave. intersection.

account for irregularities.

2-B, and 2602-C.

ng of the parking areas adjacent to the highway through-lanes 7th Ave. intersection.

					Quantities		
Item	Item Code	Item	Unit		Estimated		Est
110.				Division 1	Division 2	Total	
13	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	163.22	5.1	168.32	Refer to Tabulation 108-22. Division 2 quantity is for perpendicular
14	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	86.73	5.1	91.83	Refer to Tabulation 108-22. Division 2 quantity is for perpendicular Replace Standard Specification 2527.0 lines shall be 8" or the width of the mark with a tolerance of plus or minus 0.2". Replace Standard Specification 2527.0 depth shall be 0.08" plus or minus 0.01 Replace the first sentence of Standard groove length shall be the full length of
15	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to Traffic Control Plan on Sheet J
16	2528-8445113	FLAGGERS	EACH	0		0	See Proposal.
17	2528-8445115	PILOT CARS	EACH	0		0	
18	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0		0	
19	2529-2242304	CD JOINT ASSEMBLY	EACH	4		4	Refer to Tabulation 102-6C.
20	2533-4980005	MOBILIZATION	LS	1		1	
21	2540-4480507	LONGITUDINAL JOINT REPAIR	LF	7,370		7,370	Refer to Tabulation 106-8. Item is for repair of longitudinal joint after
22	2554-0212040	VALVE BOX ADJUSTMENT, MINOR	EACH	10		10	Refer to Tabulation 104-10.

parking space delineation lines.

parking space delineation lines.

03.H.2.a. Groove width with the following: The groove width for rking plus 1" on each side of the marking, whichever is greater,

03.H.2.b. Groove depth with the following: The groove I".

Specification 2527.03.H.2.c. Groove length with the following: The f the marking plus 3" on each end.

J.1.

ter pavement scarification has been completed.

							L00-1D)-18-05												
ТАВ	K OF	INDEX										IPTION	DESC	DJECT I	PR				
on Ti	Tabulati	Ta			tion	Tabulat	ings	comont ma	nainted n	facing and		ECL.	WCL to	rence, from	unty in Cla	n Cedar Cou	on US 30 i	s located o	is project i
		IMIT FOR RECYCLING	IPTION ED SPEED L MENT PAVEMENT F TCHES	ECT DESCR OSED POST TING PAVE TING HMA -DEPTH PA	PROJ PROP EXIS EXIS	100-1D 100-27 102-5 102-5A 102-6C	111g5.	es.	through la	he highway	djacent to t	rking areas ad	rence pa	City of Cla	ing of the	d resurfaci	ication an	for scarif: for all ot	vision 2 is
		AIR TYPES AN	PLANS PLANS JOINT REPA ING LINE T /ENTION PL LATIONS	DARD ROAD ITUDINAL MENT MARK UTION PRE X OF TABU	2 PAVE 2 POLL 5 INDE	104-10 105-4 106-8 108-22 110-12 111-25	105-4 0-18-11) PLANS	ROA	ANDARD	ST				
										project.	ork on this	onstruction wo Title	ply to o	ad Plans ap	Standard Ro	following S	The	ate	lumber D
REV nt of al Re	ION P	POLLUTIC requirements of the Iowa De 2 OR an Iowa Department of	d by the rearmit No.	regulate General Po	project is	This p System						dition) dition)	h Stop Con Stop Con	vement Widt s (One-Way s (Two-Way	anges in Pa o Turn Lane o Turn Lane th Dowels	Abrupt Cha dway with no dway with no CC Patch with nes	e Types nsition at -Lane Road Lane Road Depth PC base Patch nts	IFIED Lin 15-19 Tra 15-19 Two 15-19 Two 17-23 Ful 21-15 Sub 19-22 Joi	110 MOD 230 10- 420 10- 520 10- 103 10- 140 04- 101 04-
out the t	all carry	mit. The Contractor shall	water per	ual storm (PPP). regardin	5) individ ntion Plan nformation	(NPDES Preven For in							-Lane) Car	ne or Multi aggers with Pilot	ones fic (Two-La aveled Way ure with Fl ers ers for use ions Two-La	s for Workzo ecting Traf 15 ft of Tra 1 Lane Closu with Flagge with Flagge sing Operat	cial Signs k Not Affe k Within 1 t Location e Closure e Closure ement Mark	16-19 Spe 15-19 Wor 18-23 Wor 18-23 Spo 18-23 Lan 18-23 Lan 17-17 Pav	881 04- 1 10- 202 04- 212 04- 213 04- 214 04- 233 10-
B	232-3 MODIFIE	CONTROL EEDING)	SION (BAN S	ERO (UR											nce	Site Entra	struction ven Lanes	15-19 Con 15-19 Une	273 10- 282 10-
pr	aid ing e seed,	<pre>d class than 1 determine the termine term</pre>	area excee y in excee g to Artic f work and he Standar	nines the ed quantit < accordin cations. npletion c 2601 of t	tor detern r. Approve extra work d Specific ng the cor n Section zer and r	Contract Engineen for as o Standard Followin dates in	00-27 -17-18		Remarks		MIT - 45	PEED LI d Speed Limit 45 over	ed Post	D POS Propos 35 or less	ROPOS	P tation End	Begin St	ication	Road Identif
	of	ng to the requirements of	e accordir	d fertiliz	e seed and	Place							45		306+64.00	00.00	299+		30
		4169 of the Standard	Section 4	03,C,4 and	cle 2601.0 ifications	Arti Spec								35	324+68.00	64.00	306+		30
		uirements of Articles	o the real	cording t	e mulch a	Place								25	339+40.00	68.00	324+		30
	ons.	he Standard Specifications	07,A of th	and 4169.	.03,E,2,a	2601								35	345+15.25	40.00	339+4		30
	ill	nd applying seed, l to mobilization and will	nishing ar incidenta]	edbed, fur nulch are separately	ng the see zer, and m paid for s	Prepari fertili: not be p													
		Γ			MENT	PAVE	TING	EXI						1 1					
ate	se Aggreg	Coarse	oval	Rem	base	Subb		Bas	face	Sur	Number	Project	Type	Year		n 	Locatio	Γ).
Тур		Source	Depth IN	Туре	Depth IN	Туре	Depth IN	Туре	Depth IN	Туре			.)		End Ref. Loc. Sigr	Begin Ref. Loc. Sign	Dir. of Travel	Route	County
C.LST C.LST C.LST C.LST C.LST C.LST		BALLOU-OLIN ONION GROVE BALLOU-OLIN OTIS QRY. OTIS QRY. LINWOOD MINE GLO	2	MIL			2 1 1.5 1.5	ima Ima Ima	2 1 1.5 1.5 7	HMA HMA PCC HMA PCC	19-57 -2G-16	NHS-30-7(89) FR-30-8(12) FN-57 FN-57(5) P-1018 FA-57		1994 1984 1960 1954 1952 1928	284.7	284.39	Both	US 218	Cedar
C.LS C.LS C.LS		BALLOU-OLIN DEWEES&POTTHOFF	2	MIL			2 3	ima Ima	2 1.5 7	HMA HMA PCC	19-57 21-16	NHS-30-7(89)- FN-30-8(1)2		1994 1967	285.34	284.7	Both	US 218	Cedar

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ENGLISH DESIGN TEAM

FILE NO.

	111-25 10-18-11
BULATIONS	
itle	Sheet No.
	<u> </u>
	C.3
	C.4
	C.4
	C.5
	C.3
	C.4
	C.6
	C.3
	C.3

110-12 10-20-20

ENTION PLAN

f Natural Resources (DNR) National Pollutant Discharge Elimination esources (DNR) National Pollutant Discharge Elimination System the terms and conditions of this permit and the Pollution

ied project plans for NHSN-030-8(56)--2R-16

262-6 10-18-05

UTILITIES

(NOT A POINT 25 PROJECT) his is NOT a POINT 25 project and is not subject to the rovisions of IAC 761-115.25.

102-5 04-18-17

		Reinforcement	
уре	Durability Class	Туре	Remarks
_			
ST.			10" Thick Widening
ST.			
ST.			
ST.			
ST.			
ST.			
		*	

)2R-16	SHEET NUMBER	C.3	

For info	ormational purposes o	nlv. When	designed	RAP is spe	cified. pr	EXIS	STING H	IMA PA	AVEMEN	T FOR	RECYC	LING					102-5/ 10-20-1	5			
Route No.	Location	Year Placed	Layer	Thickne	Aspha ss Grade	alt Binder Content	Descript:	ion (Quality Type	Size	Content	M % of -4 that is Type 2	ix t % of +4 th is Type	at % of +4 t is Type	that % of +4 tha 3 is Type 4	t % Crushed \$	% Limestone				
US 30	Clarence	1994	Inter. Surface	1.5	2" AC-10 5" AC-10	0.06	3/4" C. 3/4 to Du Masnsand Nat. Sand	"A' Ist "A' "A'		3/4" 3/4" 1/4" 3/8"	0.1 0.4 0.25 0.25				97.4	Y Y Y 0.75	0 0 0 0				
		WCL to	ECL in C	ity of Clar	rence Iowa																
			L	ONGITU	JDINAL	JOIN	r Repai	[R				106-8 04-19-11									
Begin Statio	n End on Station	Length FT	n Si	de Wi	.dth IN	Pay Length LF			Rer	marks											
300+00 301+50 301+50 312+30 315+60 325+09 336+49 336+79	0.00 311+00.00 0.00 311+00.00 0.00 311+00.00 0.00 313+80.00 0.00 320+60.00 5.00 345+15.00 5.00 345+15.00	116 95 95 15 56 201 87 84	00.0 L 50.0 C 50.0 F 50.0 C 70.0 F 10.0 L		6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	1100. 950. 950. 150. 500. 2010. 870. 840.	0 WB wider 0 Centerli 0 EB wider 0 Centerli 0 Centerli 0 EB wider 0 BW wider	ning join ine Joint ning join ning join ine Joint ning join ning join	t t t t t												
	Total:					7370.	0														
								-	Poss	ible Stand	FULI lards: PR-10	L-DEPTH	PATCHE 103, pr-104	S 	d_PR-140.						102-60 04-18-1
	Locat	rion Refe	erence	lane	Length	Dimensior	Patch	With	PC Withou	C Patches	C Ramp v	with HMA	Composit	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	n 'CD'	'CT'	'EF' Joints	Anchor Lugs	Romants
Count	Station	Locati	ion Sign	L, R, or B	FT	FT	Thickness IN	PR-103	3 PR-10 SY	2 PR-1 SY	.04 PR-1 ' SY	.05 / SY	TON	PR-140 SY	PR-101 SY	PR-101 or PR-14 No.	40 No.	No.	PR-101 No.	Removal No.	itematika
1 2 3 4 5 6 7 7 8 9 9 10 11 11 2	300+95.00 310+95.00 315+70.00 319+70.00 324+35.00 327+50.00 327+50.00 329+02.00 331+70.00 332+80.00 335+70.00 339+20.00			R B L B R R L R L R L B	6.0 6.0 6.0 6.0 6.0 6.0 6.0 12.0 6.0 12.0 10.0	11.0 24.0 12.0 22.0 12.0 12.0 12.0 12.0 12.0 12	16.0 16.0 16.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	77 166 88 144 88 144 88 144 88 16 88 13 29	.3 .0 .7 .0 .7 .0 .7 .0 .0 .0 .0 .3 .3												
12	Subtotal							151	.3								3				
2 14	+15% discretionary Total							22. 174	.7								4				

CEDAR COUNTY PROJECT NUMBER NHSN-030-8(49) ENGLISH DESIGN TEAM FILE NO.

			104-10 08-01-08 ADJUSTMENT OF FIXTURES
No.	Location Station	Type of Fixture	Adjustment
1	299+06.25 + 17.39' LT	Intake	Minor
2	299+08.37 + 21.13' RT	Intake	Minor
3	302+56.59 + 16.05' RT	Intake	Minor
4	309+37.14 + 16.56' RT	Intake	Minor
5	311+03.83 + 17.03' RT	Intake	Minor
6	311+06.56 + 17.46' LT	Intake	Minor
7	318+95.43 + 17.44' RT	Intake	Minor
8	318+95.80 + 17.74' LT	Intake	Minor
9	320+78.94 + 21.80' LT	Intake	Minor
10	320+79.08 + 21.09' RT	Intake	Minor
11	324+96.64 + 10.36' LT	Manhole	Minor - place HMA wedge after surface milling to provide driveable surface until resurfacing.
12	329+08.47 + 24.63' RT	Intake	Minor
13	329+15.09 + 24.16' RT	Water Valve	Minor
14	329+38.80 + 22.15' RT	Water Valve	Minor
15	329+47.15 + 19.88' RT	Water Valve	Minor
16	333+51.65 + 26.06' LT	Intake	Minor
17	333+58.62 + 25.09' RT	Water Valve	Minor
18	333+61.97 + 26.05' RT	Intake	Minor
19	333+89.10 + 34.34' RT	Water Valve	Minor
20	333+89.25 + 25.71' RT	Water Valve	Minor
21	333+91.97 + 22.16' RT	Water Valve	Minor
22	334+22.35 + 25.88' RT	Intake	Minor
23	336+71.32 + 22.02' RT	Intake	Minor
24	336+73.54 + 25.19' LT	Intake	Minor
25	338+82.38 + 24.39' RT	Water Valve	Minor
26	344+10.32 + 32.23' RT	Water Valve	Minor
27	344+14.77 + 30.13' RT	Water Valve	Minor
	TOTALC	1	Manhala
	TUTALS:	16	Intake
		10	Water Valve
		27	

ENGLISH DESIGN TEAM

FILE NO.

ZV-TQ		LN L.J	
2R-16	SHEET NUMB	FR C 5	

PAVEMENT MARKING LINE TYPES

See PM-110 (Modified) ***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

*BCY4 - Place on the same side of the roadway to match existing markings near the project. **NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field. DCY4: Double Centerline (Yellow) @ 2.00 ELW4: Edge Line Right (White) @ 1.00

	Location					Length by Line Type (Unfactored)														
			Din - C		C 1 1	DCVA	E1114		T	Leng										
Road ID	Station t	to Station	Dir. OT	Marking Type	Side	DCY4	ELW4													Existing Pavement Type
			Travel		L C R	STA	STA	STA S	STA	STA	STA	STA	STA	STA	STA S	TA	STA	STA STA	STA	
110.20	2000+0.00	2067-2 56	DOTU	Untersheaven Deint	N N	7 74														
	2990+0.00	306/+3.56	BOTH	Waterborne Paint	X	/./4														
US 30	3133+9.81	3158+5.25	BOTH	Waterborne Paint	X	2.46														
US 30	3167+2.26	3202+2.72	BOTH	Waterborne Paint	X	3.50														
US 30	3210+9.13	3246+3.93	BOTH	Waterborne Paint	X	3.55														
US 30	3255+5.70	3290+3.13	BOTH	Waterborne Paint	X	3.47														
US 30	3300+1.73	3335+9.70	BOTH	Waterborne Paint	X	3.36														
	3393+1 0/	3451+5 25	BOTH	Waterborne Paint	X	5.84														
03 50	555511.04	545115125	Dom		~ ~	5.04														
US 30	3256+6.90	3261+3.90	EB	Waterborne Paint	X		0.77													Includes perpendicular
US 30	3267+1.20	3271+9.20	EB	Waterborne Paint	X		0.78													parking space lines
US 30	3274+6.35	3286+2.60	EB	Waterborne Paint	X		1.76													(Qty. in Division 2)
US 30	3300+7.80	3315+1.80	EB	Waterborne Paint	X		2.14													
03 50	5519+1.00	3330+9.00	LD		^		1.78													
US 30	3260+6.50	3289+4.50	WB	Waterborne Paint	X		4.18													Includes perpendicular
US 30	3304+1.00	3325+3.25	WB	Waterborne Paint	X		3.12													parking space lines
US 30	3329+8.40	3334+8.40	WB	Waterborne Paint	X		0.80													(Qty. in Division 2)
115 20	2000:0.00	2067-2 56	DOTU	Constant Cost from December 1 Hard Line		4														
US 30	2990+0.00 3076±0.06	306/+3.56	BOTH	Grooves Cut for Pavement Markings	X	/./4							_							
US 30	3133+9.81	3158+5.25	BOTH	Grooves Cut for Pavement Markings	X	2.46						-							-	+
US 30	3167+2.26	3202+2.72	BOTH	Grooves Cut for Pavement Markings	X	3.50														
US 30	3210+9.13	3246+3.93	BOTH	Grooves Cut for Pavement Markings	X	3.55														
US 30	3255+5.70	3290+3.13	BOTH	Grooves Cut for Pavement Markings	X	3.47														
US 30	3300+1.73	3335+9.70	BOTH	Grooves Cut for Pavement Markings	X	3.36														
	3343+4.38	3385+1.19	BOTH	Grooves Cut for Pavement Markings	X	4.17														
03 50	555571.04	5451+5.25	BUTH	drooves cut for Pavellent harkings	^	5.64														
US 30	3256+6.90	3261+3.90	EB	Grooves Cut for Pavement Markings	X		0.77													Includes perpendicular
US 30	3267+1.20	3271+9.20	EB	Grooves Cut for Pavement Markings	X		0.78													parking space lines
US 30	3274+6.35	3286+2.60	EB	Grooves Cut for Pavement Markings	X		1.76													(Qty. in Division 2)
US 30	3300+7.80	3315+1.80	EB	Grooves Cut for Pavement Markings	X		2.14													
US 30	3319+1.00	3330+9.00	EB	Grooves Cut for Pavement Markings	X		1.78													
US 30	3260+6.50	3289+4.50	WB	Grooves Cut for Pavement Markings	X		4.18													Includes perpendicular
US 30	3304+1.00	3325+3.25	WB	Grooves Cut for Pavement Markings	X		3.12													parking space lines
US 30	3329+8.40	3334+8.40	WB	Grooves Cut for Pavement Markings	X		0.80													(Qty. in Division 2)
US 30	2990+0.00	3067+3.56	BOTH	Waterborne Paint	X	7.74														Temporary Paint
US 30	30/6+9.06	3118+4.38	BOTH	Waterborne Paint	X	4.15														Temporary Paint
115 30	3167±2.26	320212 72	BOTH	Waterborne Paint	A Y	2.40														Temporary Paint
US 30	3210+9.13	3246+3.93	ВОТН	Waterborne Paint	X	3.55														Temporary Paint
US 30	3255+5.70	3290+3.13	BOTH	Waterborne Paint	X	3.47														Temporary Paint
US 30	3300+1.73	3335+9.70	BOTH	Waterborne Paint	X	3.36														Temporary Paint
US 30	3343+4.38	3385+1.19	BOTH	Waterborne Paint	X	4.17														Temporary Paint
US 30	3393+1.04	3451+5.25	BOTH	Waterborne Paint	X	5.84														Temporary Paint
													_							+
						DCY4	ELW4						-							+
						STA	STA													1
				Factored Total: Waterborne Paint		152.99	15.33	-	-	-	-	-		-	-	-	-		-	
				Factored Total: Grooves Cut for Pavement Marking	s	76.50	15.33	-	-	-	-			-	-	-	-		-	
			-	Pid Quantitus Daintad Davament Mankings - Ustarba					160 22											
				Did Quantity: Painted Pavement Markings, Waterbo	nne				108.32				_							
				bid quantity, or obves cut for ravement ridrKings					91.03				-							+
						1														

108-22M Modified

)2R-16	SHEET NUMBER	C.6	

US 30 to remain open to traffic at all times. Temporary HMA wedges shall be placed at all entrances and side streets if surface is milled and not resurfaced on the same day.	STAGINC
US 30 to remain open to traffic at all times. Temporary HMA wedges shall be placed at all entrances and side streets if surface is milled and not resurfaced on the same day.	2R-16 for additional staging details and t
Temporary HMA wedges shall be placed at all entrances and side streets if surface is milled and not resurfaced on the same day.	
111-01 04-17-12	
COORDINATED OPERATIONS	
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the	
same area. Project Type of Work	
City of Clarence 7th Ave. Reconstruction	
511 TRAVEL RESTRICTIONS	
Route Direction County Location Description Feature Crossed Objection	t Type Maint. Bridge No., Structure ID, or FHWA No.
US 30 Cedar None.	
And And <td></td>	
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FILE NO.	ENGLISH	DESIGN TEAM	Cedar COUNTY	PROJECT NUMBER	NHSN-030-8(49)
11/1/2022 2.12.02 DM	actanla	(1) (1)			

108-26A 08-01-08

NOTES

raffic control notes.

108-25 10-21-14

on	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks

)2R-16	SHEET NUMBER	J.1



pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1603002020\DistrictDesign\160308049u01.dgn 1:53:10 PM 11/17/2023 astanle

Do not groove temporary pavement markings

1 Center 6 inch gap over longitudial joint.

Possible Contract Item: Grooves Cut for Pavement Markings

Possible Tabulation: 108-22

GROOVING DETAILS FOR LINE TYPES

SHEET NUMBER U.1



Do not continuously groove broken, dashed or dotted line styles.

(GROOVING DETAIL LINE TYPES	S FOR
	SHEET NUMBER U.2	





(2) Do not continuously groove broken, dashed or dotted line styles.





(GROOVING DETAIL LINE TYPES	S FOR
	SHEET NUMBER U.3	



,		
	GROOVING DETAIL LINE TYPES	S FOR
<u> </u>	SHEET NUMBER U.4	







2602 MODIFIED		
ntee.		
inished slope shall match existing pavement except that the maximum allowable lope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as increted by the engineer through areas of special shadnon.		
efer to tabulation listing of superelevated curves and Standard Road Plans for dditional requirements through superelevated curves.		
houlder material as specified elsewhere in these plans; refer to typical 7135 or "Type "B' Granular Surfaced Shoulders".		
19 N		
TYPICAL CROSS SECTION ALT CEMENT CONCRETE RESURFACING		
2209 NGGIFTED		
tes:		
nished slope shall match existing pavement except that the maximum allovable ope is 3.0 %, minimum allovable slope is 2.0 %. Section may be modified as rected by the engineer through areas of special shaping.		
fer to tabulation listing of superelevated curves and Standard Road Plans for ditional requirements through superelevated curves.		
the edge of the ACC surface course runout, place a one foot wide strip of nd seal. Sand seal is included in the quantity for primer or tack coat tumen. Sand used shall be incidental to primer or tack coat bitumen.		
umated for 2 applications.		
TYPICAL CROSS SECTION ALT CEMENT CONCRETE RESURFACING		
FOR REFERENCE ONLY NOT FOR CONSTUCTION		
57 SHEET NUMBER BO1		
SHEET NUMBER U.7		