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PROJECT IDENTIFICATION NUMBER

TOTAL

7

20-40-020-010

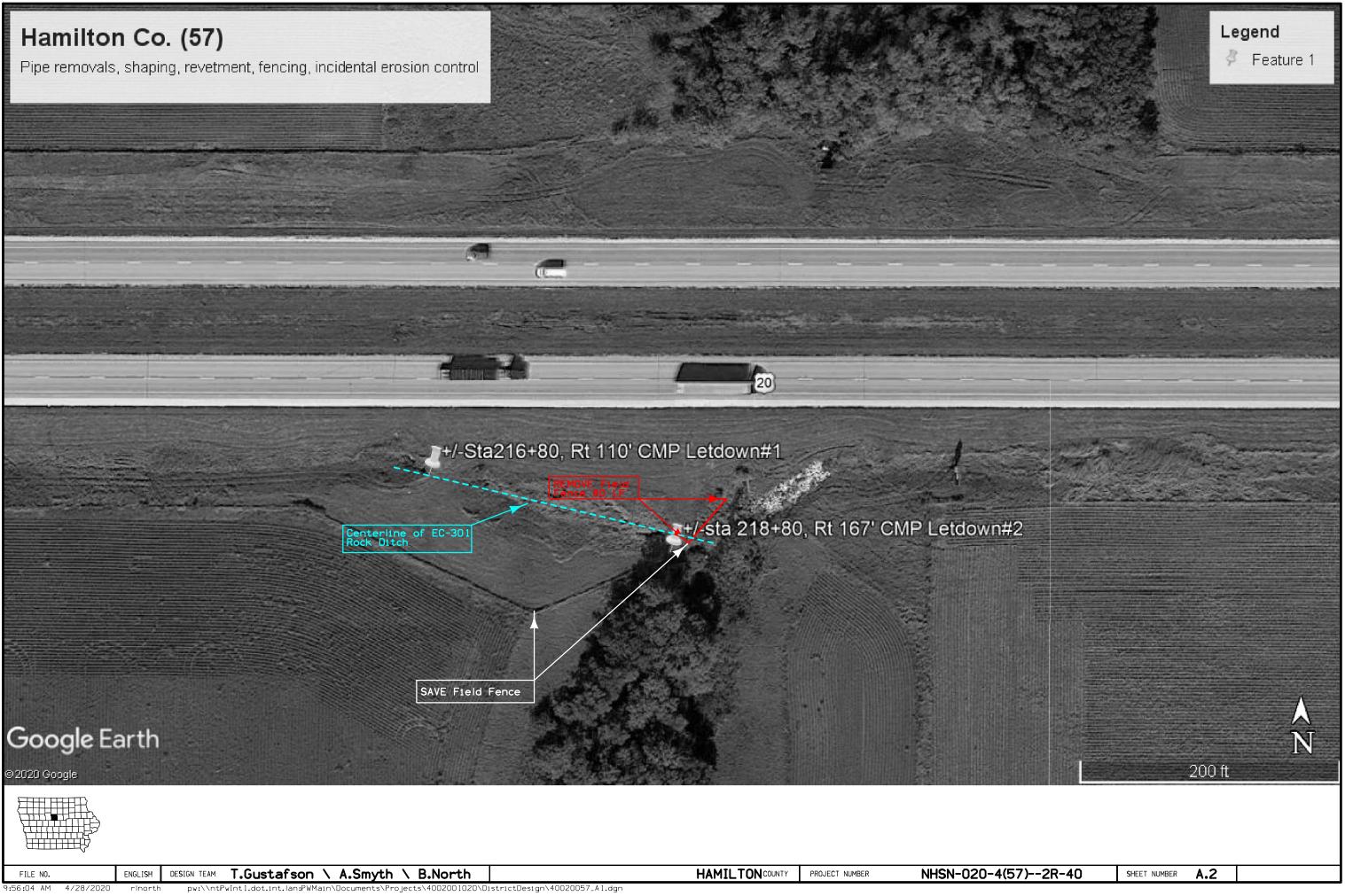
PROJECT NUMBER

NHSN-020-4(57)--2R-40

R.O.W. PROJECT NUMBER

	INDEX OF SHEETS
No.	DESCRIPTION
Sheets	Title Sheets
* A.1	Title Sheet
* A.1	Location Map Sheet
* A.2	Site Map
Sheets	Quantities and General Information
C.1	Project Description
C.1	Estimated Project Quantities
C.1	Estimate Reference Information
C.1	Standard Road Plans
C.1	General Notes
C.2	Tabulations (beg. with tab. of incidentals if needed)
Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
Sheets	500 Series, Mod.Stds. and Detail Sheets
U.1	As-Built Sheet-FOR INFORMATION ONLY
U.2	Dist.1 Partial ROW Strip Map-FOR INFORMATION ONLY
	* Color Sheets

	ROADWAY DESIGN
Tony J. Gustafson 12851	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 Toway Signature Tony J. Gustafson Printed or Typed Name My license renewal date is December 31, 2021
es or sheets covered	by this seal:
2R-40	SHEET NUMBER A. 1



			100-10 10-18-05							
PROJECT D	ESCRIPTION				ESTIMATE REFERENCE INFORMATION					
Major work for this project includes removing two failed and rusted Work also includes field fence removal and repairs to the remaining	36" corrugated metal pipe (CMP) segment of existing state owned	and replacing it w field fence, requi	ith a rock ditch. red erosion control	Item No.	Item Code	Description				
measures and adequate traffic control to safely complete the project				1 2		ENGINEERING FABRIC REVETMENT, CLASS E				
	IECT QUANTITIES ON PROJECT)		100-1A 07-15-97			See tab. 100-23 sheet C.2 and sheet A.2 for more information and location. Includes all required class 10 earthwork for shaping, smoothing, and grading existing ditch and berms from 50' west of the inlet for existing letdown #1 and easterly to the outlet of letdown #2 (length x width of this preparation = 275' L x 40' W). At letdowns #1 & #2 the contractor shall excavate thru and remove a minimum 'V' shaped portion of the berms containing the letdown CMP's then shape the sides of				
Item No. Item Code Item		Unit Total	As Built Qty.	- 3	-	the V cut in the berms to slope at 1:1 before placing fabric and revetment on 100% of these new 1:1 side slopes.				
1 2507-3250005 ENGINEERING FABRIC SY 1,223.0 2 2507-6800061 REVETMENT, CLASS E TON 1,075.0 3 2519-4200140 REMOVAL OF FENCE, FIELD LF 80.0 4 2528-8445110 TRAFFIC CONTROL LS 1.00 5 2533-498005 MOBILIZATION LS 1.00 6 2602-0000320 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. LF 675.0 7 2602-0000350 REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE LF 675.0						REMOVAL OF FENCE, FIELD See tabulation 100-7 sheet C.2 and sheet A.2. Work includes all required materials, labor, and equipment to: Remove the existing south to north segment of state owned field fence (shown in red on sheet A.2) that's located and beginning just off the south end of the existing RCB's west wing and running southwesterly (away from US 20) +/-55' across the berm (for letdown #2) to an existing wooden post that marks a slight westerly angle break in this fence line. Beginning at this wooden post with the angle break, repair and reconstruct the remaining existing fence and post as needed to leave this segment sound and in good order.				
				4	2528-8445110	TRAFFIC CONTROL See Traffic Control Plan on sheet J.1.				
				- 5	- 2533-4980005	- MOBILIZATION				
			105-4 10-18-1			This bid item includes as incidental: seeding, fertilizing, and mulching per standard notes on sheet C.1. This bid item includes as incidental: removal and disposal of both rusted out, failed letdown CMP's #1 & #2.				
	ROAD PLANS				-	-				
The following Standard Road Plans app Number Date	<u>ly to construction work on this</u> Title	project.		6	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. Refer to Tab. 100-19.				
EC-20404-21-20Perimeter and Slope Sediment Control DevicesEC-30110-18-16Rock Erosion Control (REC)						The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 20 in. dia." to address erosion to be encountered during construction.				
EC-502 04-21-15 Seeding in Rural Areas						Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.				
MI-101 10-20-15 Fencing Layout MI-104 10-17-17 Fence Construction at Channel Crossings, Flood	Plains, and Minor Ground Depres	sions								
SI-88104-16-19Special Signs for WorkzonesTC-110-15-19Work Not Affecting Traffic (Two-Lane or Multi-	Lane)			-	-	Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.				
TC-40204-21-15Work Within 15 ft of Traveled WayTC-41804-21-20Lane Closure on Divided Highway				7	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE				
				<u>_</u>	-	-				
232-3C 04-16-19			232-3A 04-16-19	j						
EROSION CONTROL	EROSI	ON CONTROL								
(NATIVE GRASS SEEDING)	(RURA	L SEEDING)								
Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed and mulch on the disturbed area lying 8 feet or more beyond the shoulder as follows:	Following the completion of wo to the seeding dates in Section Specifications, place seed, fe area lying 8 feet adjacent to	ork in a disturbed a on 2601 of the Stand ertilizer, and mulch	lard on the disturbed							
SEED MIX: Big bluestem (Andropogon geradii) 6 lbs. PLS/Acre (7.0 kg/ha)	Place seed and fertilize accor 2601.03,C,3 and Section 4169 c									
Big bluestem (Andropogon geradii) 6 lbs. PLS/Acre (7.0 kg/ha) Indiangrass (Sorghastrum nutans) 6 lbs. PLS/Acre (7.0 kg/ha) Little bluestem (Schizachyrium scoparium) 6 lbs. PLS/Acre (7.0 kg/ha)	Place mulch according to the r 2601.03,E,2,a and 4169.07,A of	requirements of Arti	cles							
Partridge Pea (Chamaecrista fasciculata) 4 lbs. PLS/Acre (4.5 kg/ha) Sideoats grama (Bouteloua curtipendula)	Preparing the seedbed, furnish fertilizer, and mulch are all	ning and applying se	ed,							
4 lbs. PLS/Acre (4.5 kg/ha) Canada wildrye (Elymus canadensis) 2 lbs. PLS/Acre (2.2 kg/ha) Switchgrass (Panicum virgatum) 1 lbs. PLS/Acre (1.1 kg/ha)	not be paid for separately.		232-11	<u>]</u> 1						
Oats (Avena sativa)1105. PLS/Acre (1.1 kg/ha)32 lbs./Acre (36.0 kg/ha)			04-16-19							
Furnish Big bluestem, Indiangrass, Canada wildrye and Little bluestem that is debearded or equal to facilitate the application		ON CONTROL				253-1				
of seed.	(STABILIZIN If outside of permanent seedir				MED	10-18-11 DIAN CROSSOVER				
Furnish seed certified as Source Identified Class (Yellow Tag) Source G0-Iowa. Oats are excluded from this requirement.	Standard Specifications, or if place stabilizing crop, fertil area as follows:	F required by a stor	rm water permit,	type medi	actor is prohib an crossover on	ited from using any established or other othis project unless specifically actor's use by this plan.				
Place seed according to the requirements of Article 4169.02 of the Standard Specifications.	Place seed and fertilize accor 2601.03,C,1 and Section 4169 c					281-1 10-18-05 SECTION 404 PERMIT AND CONDITIONS				
Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.	Place mulch according to the r 2601.03,E,2,a and 4169.07,A of					UTILITIES Construct this project according to the requirements of U.S. Army Corps of Engineers NATIONWIDE, Permit No. 3. A				
Preparing the seedbed, furnishing and applying seed and mulch are incidental to mobilization and will not be paid for separately.	Preparing the seedbed, furnish fertilizer, and mulch are inci be paid for separately.					(http://www.envpermits.iowadot.gov/). The U.S. Army Corps of				
				י ודאאם		PROJECT NUMBER NHSN-20-4(57)2R-40 SHEET NUMBER C.1				
FILE NO. ENGLISH DESIGN TEAM T.Gustafson\A				NAMILL		PROJECT NUMBER NHSN-20-4(57)2R-40 SHEET NUMBER C.1				

				REMOVAL	OF FENC	E				100-08 04-17-18					
Removal of Field Fer	nce is inc: Loca		Clearing and	Grubbing.		-+ h									
From Station 0	ffset	Statio	To n Offse	Type	e Leng		R	emarks							
218+50.00 175			.00 125	Field		0.0 See she	eet A.2								
							EROSION								10 04-1
		Loc	ation			Refer	to EC-301 and D	Rock E	rosion Con		•	Mater	ial Bid Quan	tities	
			Begin	End	Side	(L) (W Type 1	Type 2		Type 4	Type 5	Eng.	Class E	Erosion	Remarks
Road Ider	ntificatio	1	Station	Station			Rock Ditch Check	n Rock Ditch	Rock Flume	Rock Splash Basin	Rock Slope Protection		Revetment	Stone	
US 20 EB Rt			216+70.	.00 219+20.00	Lt./Rt. south		FT Check 40	X				SY 1223.0	TON 1075.0	TON	
	Р	ERIME	TER AND	SLOPE SED		ONTROL	DEVICE		100- 04-19						
Locati	on		Length of	Possible Standar Installation	rds: EC-204										
Begin Station End	l Station	Side 9		inch Dia 20 inch	Dia		Remarks								
216+80.00	218+80.00	Rt	LF	LF LF 450	0.0 for dito	ch checks spa	ced 22' apart								
I		1		1											
FILE NO.	ENGI TSH	DESTGN	TEAM T G	stafson\A.	Sm\/th\R	North				нл	MILTON		DJECT NIMBE	R NHCN.	-20-4(57)
· ····	1	1 2 2 2 2 0 10	I.GU	Scar Son (A.						IIA IIA					

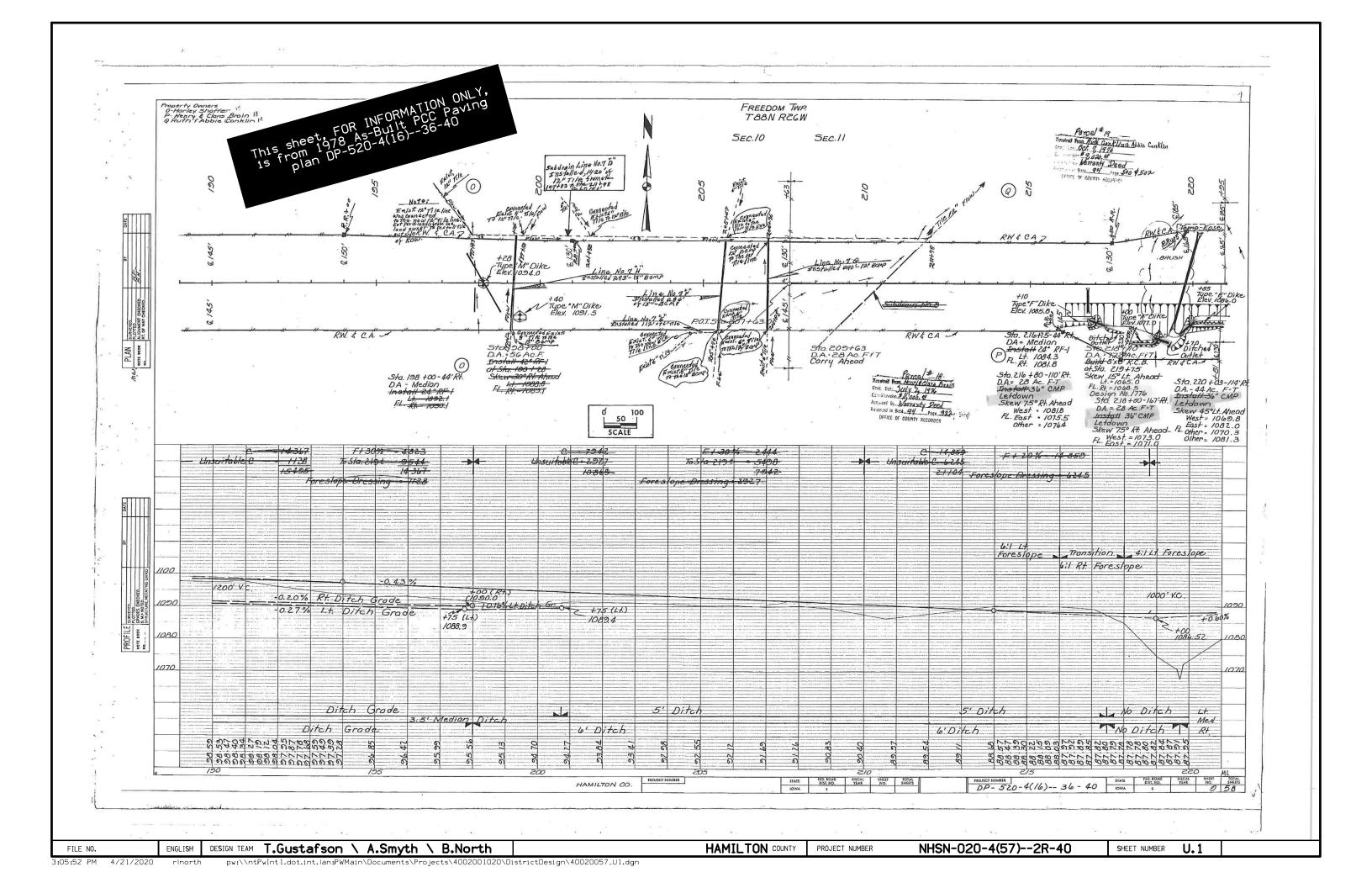


2R-40	SHEET NUMBER	C.2	

 Traffic control on Work will be prohib tab. 108-23B. 	this project shall pited and all traff	TRAFFIC CONTROL PLAN iated ramps, and intersecting roadways shall be maintained at all times during be in accordance with Standard Road Plans in tabulation 105-4 on sheet C.1. ic shall be returned to normal during weekends; refer to TRAFFIC CONTROL CLOSUF within this project and pedestrian traffic is not anticipated.	RE TABLE(S)	COORDINATE Other work in progress during t include the construction of the operations with those of other same area. Project	projects listed. Coordinate			108-	
* This is to only be use Shaded area indicates t	d in conjunction w	th Tabulation 108-23A TRAFFIC CO	NTROL CLOSURE	TABLE(S)				10-1	7-17
		AM 0 3:30 4:00 4:30 5:00 5:30 6:00 6:30 7:00 7:30 8:00 8:30 9:00 9:30 10:00 10:	Noon		PM 30 4:00 4:30 5:00 5:30 6:00 6:30 4:00 4:30 5:00 5:30 6:00 6:30	0 7:00 7:30 8:00 8:30	9:00 9:30 10:00 1	10:30 11:00 1	1:30
									108-25 10-21-14
			511 TRAVEL RES	STRICTIONS	Maint. Bridge No.,		Co	onstruction	Projected
Route Direction	County	Location Description	Feature Crossed	Object Type	Structure TD	e of Existing iction Measurement	Measurement M	easurement as Signed	As Built Remarks Measurement
		No Travel Restrictions Expected							
FILE NO.	NGLISH DESIGN T	EAM T.Gustafson\A.Smyth\B.North		ΙΑΜΊΙΤΟΝ COUNTY PROJEC	т пимвег NHSN-20-4(5	ō7)2R-40	SHEET NUMB	ER J.1	

30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30

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





3:06:00 PM 4/21/2020 rlnorth pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\4002001020\DistrictDesign\40020057_U1.dgn