

15 PROJECT IDENTIFICATION NUMBER

TOTAL

20-31-020-010 PROJECT NUMBER

NHSN-020-9(266)--2R-31

R.O.W. PROJECT NUMBER

	INDEX OF SHEETS
No.	DESCRIPTION
Sheets	Title Sheets
A.1	Title Sheet
A.1	Location Map Sheet
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.1	Tabulations
Sheets	Soils Tabulations
CS.1	Soils Tabulations
Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
Sheets	Soils Sheets
Q.1	General Notes
* Q.2	Soils Sheets U.S. 20
Sheets	Mainline Cross Sections
W.1 - 4	Mainline Cross Sections
	* Color Plan Sheets

PRELIN	AINARY	PLANS
Subje	ect to change by final	231-131-1000 design.
x D2 PLAN	– Døte: (03–17–2020
6)2R-31	SHEET NUMBER A.1	

This project inv				PROJECT DESCRIF						100-1D 10-18-05						STAN	DARD I
	nvolves a s	lide repai	ir at appro	DX. 0.6 mi E of the Northwest Arte		ouque (MP 3	16.4).							The foll	lowing Stan	dard Road F	
											Number DR-303			ins (Longit	udinal)		
											DR-306 TC-1	10-16-	18 Precas	t Concrete	Headwall f	or Subdrair (Two-Lane c	Outlets
										100-0A	TC-402	04-21-	15 Work W	ithin 15 ft	: of Travel	.ed Way	or Muiti-La
			F (TTMATED DOADWAY OF		TEC			1	0-28-97	TC-418	4-21-2	20 Lane C	losure on D	Divided Hig	hway	
			E3	STIMATED ROADWAY QU		TE2											
				(1 DIVISION PRO	IECT)												
Item No. Ite	em Code			Item			Unit	Total	As Buil	lt Qty.							
			AND GRUBBI					8									
	2-8212034	SUBDRAIN,	N, CLASS 1 LONGITUDI	NAL, (SHOULDER) 4 IN. DIA.			CY LF	211.0 30.0									
			OUTLET, DR	-306			EACH SY	1 470.0									
6 2507-	7-8029000	EROSION S	TONE				TON	726.0									262-6
		TRAFFIC C MOBILIZAT					LS LS	1.00									10-18-05
													U	TILITI	ES		
														INT 25			
										100-4A	This is	NOT a POIN ns of IAC	T 25 proje 761-115 25	ct and is n	not subject	to the	
									1	L0-29-02	0101310		/01 115.25	•			
			EST	FIMATE REFERENCE IN	NFORMA	TION											
Item No. Item	em Code			Des	cription												
1 2101-	1-0850002																
-	-	-	Tab. 110-1	/.													
			N, CLASS 1 Tab. 103-1	0, WASTE 2 on Sheet CS.1.													
- 3 2502-	2-8212034	Refer to		NAL, (SHOULDER) 4 IN. DIA. on Sheet CS.1.													
- 4 2502-	2-8221306		OUTLET, DR Tab. 104-9	- 306 on Sheet CS.1.													
- 5 2507-	7-3250005	- ENGINEERI Refer to		2 on Sheet CS.1.													
- 6 2507-	-	- EROSION S	TONE														
- 7 2528-	-	Refer to - TRAFFIC C		2 on Sheet CS.1.													
-			Sheet J.1.														
8 2533-	3-4980005	MOBILIZAT	ION														
												DDTNC					
	Location	1									ND GRU						
	to Station of	or	Dinection			1		Tre	es, Stumps	, and Logs	s and Down 1	imber Mate	rial Diame	ters	1	T	
Station to		oc Sign	Direction of Travel	Work and Material Type	3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"
Station to Ref. Loc. Sign or Des	escription						8										
Ref. Loc. Sign	scription		WB	Trees - Clearing													

FILE NO.	ENGLISH	DESIGN TEAM Jia\Haugen\Krug	DUBUQUE COUNTY	PROJECT NUMBER NHSN-020-9(26

ROAD PLANS ly to construction work on this project. Title

ane)

110-17 04-18-17

All Othon	Materials	Esti	imated Quan	tities	
AII Utier	Materials			Herbicide	
Length	Width	Units	Area	Application	Remarks
FT	FT	T Units Acres Each		Each	

DITIONAL BID ITEMS AND QUANTITIES.

6)2R-31	SHEET NUMBER	C.1	

:e	Leeski						Class 10			1	Gra. Material	Macadam Stone	Тс	op Soil	
· Po	Location Begin Sta. End Sta.		Side	percention of the capacity	Embankment-in- Place	Excavati	on Waste		s "E" Engineering tment Fabric	Erosion Stone		Slope Protection	Furnish & Spread		, Salvage Spread
De	egin sta.	Enu sta.		СҮ	CY	CY	CY		ons SY	Tons	Tons	SY	CY		СҮ
2	2343+65.00	2344+10	Lt.					211	470	726					
								LON	GITUDINAL SU			AND BACK	SLOPE		
Not a	bid item. Br		antitie ation	es assume a tre	ench depth of 24	inches.	Lo	ngitudinal S	ubdrain (DR-303)	Refer to Soi		bdrain Outlet			
			Depth		Shoul	.der B	ackslope	Bridge Berm (EW-	203 or EW-204)	DR-303,	R-303, DR-305 or DR-306			Class "A"* Crushed	
	Road or Lane dentification	Stat	ion to	Station	Side D		Length Siz		Standard Road Plan and Type	Size Leng IN FT	Station	Standard Roa and Typ	ad Plan	CY	Stone CY
1	WBL	2343+74	.00	2343+74.00	IN LT 42.0	IN 4.0	FT IN 30.0	<u> </u>			2343+74.0		DR-306	2.8	CI
al:							30.0	0.0				DR-3	06 = 1	2.8	0.0
	ALL LONGTTU	DTNAL SUBDRA	INS AR	TYPE 7 WITH F	PCC OR TYPE 8 WI	TH HMA (ACC	C) UNLESS OTHER	WISE NOTED	IN REMARKS COLUMN.						

FILE NO.	ENGLISH DESIGN TEAM MEGIVERN\DELL\MOYLE	DUBUQUE COUNTY PROJECT NUMBER NHSN-020-9(266)
2/6/2020 10:05:58 AM	gmoyle c:\pw_work\pwmain\gmoyle\d0998097\31020266.xlsm	

103-12 10-15-19

Remarks

104-9 10-17-17

Remarks

and replace existing outlet

GEOT	ECHNICAL DESIGN						
IOWA MATTER	I nereby 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. Add A Duly Signature Mark A. Dell Printed or Typed Name Yy license renewal date is December 31, 2021						
Pages or sheets covered by this seal: CS.1, Q.1-2, W.1-4							
)2R-31	SHEET NUMBER CS.1						

Traffic or	1 U.S. 20 s	hall be ma	aintained a	TRAFFIC t all times.	CONTROL PLAN	108-23A 08-01-08				
						511 TRAVEL RE	STRICTIC	NS		
Route	Directio	on C	ounty		Location Description	Feature Crossed		Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restrictio
				None						
Other work include the	in progres construct	s during t ion of the	the same per projects i contractors	04-17-12 ATIONS viod of time will disted. Coordinate s working within the Type of Work						
FILE NO.		ENGLISH	DESIGN	TEAM Jia\Hauger	1\Krug		DUBUOUE	COUNTY PROJECT NU	MBER NHSN-02	0-9(266

108-25 10-21-14

Image: second se	f ion	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks

Slide Repair - Westbound US 20, Station 2343+65 to Station 2344+10

Bench and rebuild the left (north) foreslope of westbound US 20 to the previously constructed slope (approximately 2:1) starting at Station 2343+65 and extending to Station 2344+10.

Some amount of Clearing and Grubbing will be necessary to complete the repair.

Slope repair activities shall not disturb any existing tree vegetation present on the foreslope adjacent to the instability.

All slough material present on the slope shall be stripped/removed and wasted.

The Contractor shall exercise caution to avoid slope repair activities causing any instability of the existing sign truss or existing underground utilities.

The repair shall start near the toe of slope, near Elevation 760 feet, and then extend upslope to an offset of about 30 feet left from the baseline of westbound US 20.

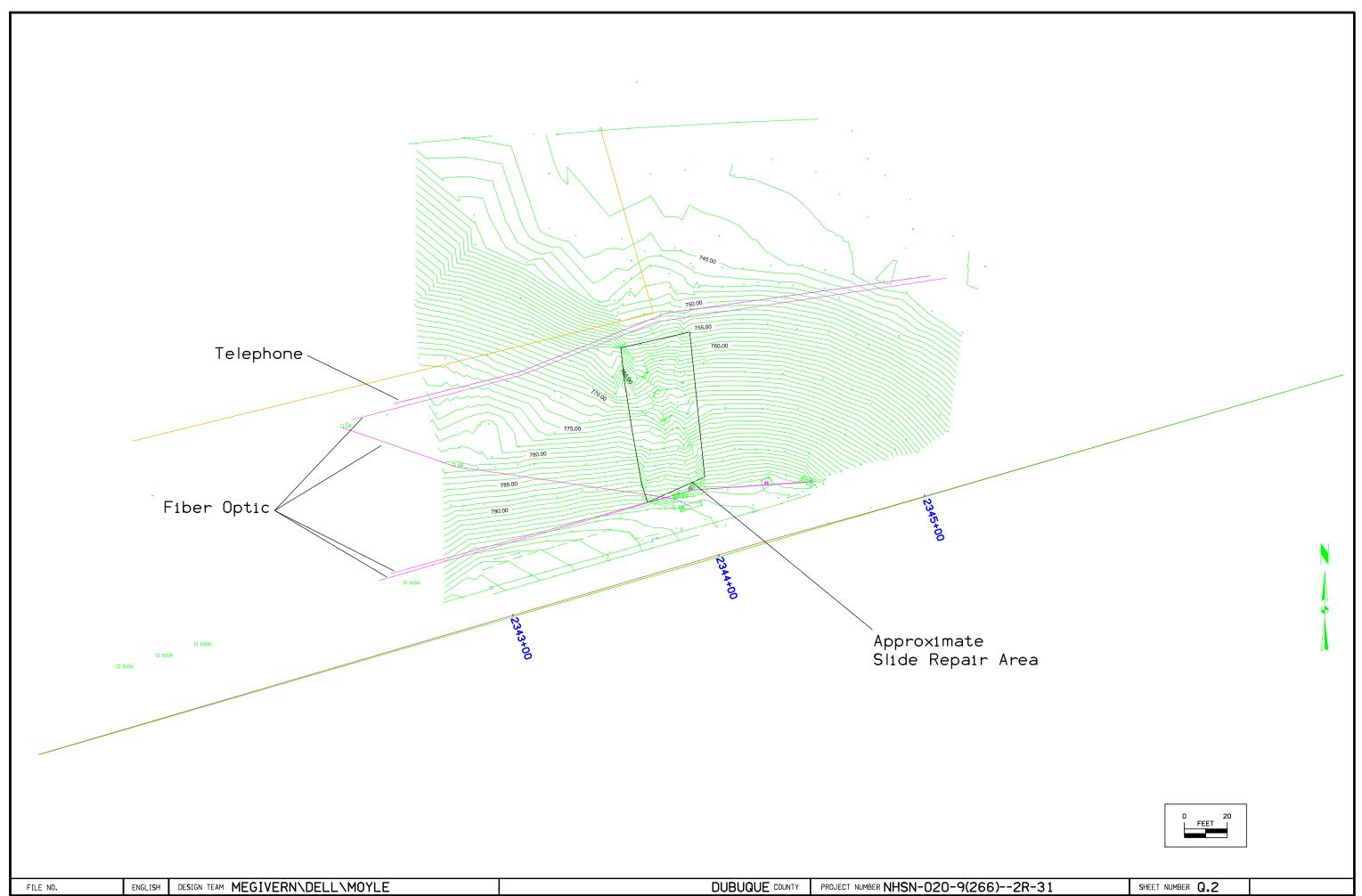
The backfill material shall consist of Erosion Stone underlain with Engineering Fabric.

The existing subdrain outlets shall be extended, if necessary, and a new outlet installed (DR-306).

Reset the electrical manhole, signal box and electric meter box.

FILE NO.	ENGLISH	DESIGN TEAM MEGIVERN\DELL\MOYLE	DUBUQUE COUNTY	PROJECT NUMBER NHSN-020-9(266)2R
12-50-20 PM 2/4/2020	e me u le			

2R-31	SHEET NUMBER Q.1	



100-1A 07-15-97

ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)

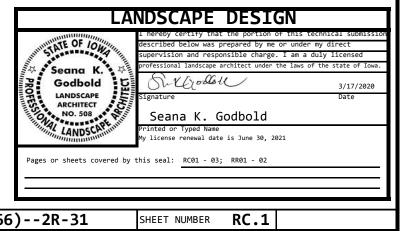
Item No.	Item Code	Item	Unit	Total	As Built Qty
1	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	36.0	
2	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	7.20	
3	2601-2643412	TURF REINFORCEMENT MAT, TYPE 2	SQ	36.0	
4	2602-0000020	SILT FENCE	LF	93.8	
5	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	93.8	
6	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	9.4	
7	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	100.0	
8	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	
9	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

100-4A 10-29-02

ESTIMATE REFERENCE INFORMATION

m No.	Item Code	Description
1	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT
-	2001 2050552	Refer to Tab. 100-22 for locations. Refer to Standard Road Plan EC-103
		Prepare seedbed according to Article 2601.03, B, 4, of the Standard Specifications prior to seeding and
		fertilizing under the slope protection.
-	_	-
2	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION
		Estimate for watering Special Ditch Control, Slope Protection Areas, Turf Reinforcement Mat, or
		Transition Mat is based on a total of four waterings at a rate of 50 gallons per square.
		Estimate for watering Sod is based on a total of six waterings at a rate of 100 gallons per square.
-	-	-
3	2601-2643412	TURF REINFORCEMENT MAT, TYPE 2
_		
- 4	- 2602-0000020	
•		Refer to Tab. 100-17.
		The tabulation includes estimated locations for placement of "Silt Fence" to address
		erosion to be encountered during construction. Verify the specific locations with
		the Engineer prior to beginning placement. Bid item includes tab quantity for the
		paving project for new locations and 10% of the original tab quantity for the grading project (insert original tab quantity from the grading project) for field
		grading project (insert original cardinality from the grading project) for field
-	-	-
5	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately),
		or for areas that have achieved 70% permanent growth.
-	-	
6	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
		This item is included for maintaining the new silt fence and silt fence ditch checks installed for the paving project and existing silt fence and silt fence ditch checks
		installed as part of the grading project.
-	-	-
7	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303
-	- 2602-0010010	
8	2002-0010010	MOBILIZATIONS, EROSION CONTROL
-	-	-
9	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL
		-
-	-	
	1	

FILE NO.	ENGLISH	DESIGN TEAM GODBOLD\POHLEN\MCDONALD	DUBUQUE COUNTY PR	ROJECT NUMBER	NHSN-020-9(266



	105-4 10-18-11	231 10-16-
STANDARD	ROAD PLANS	HERBICIDE
The following Standard Road Plans app Number Date	y to construction work on this project. Title	For all herbicide applications, the following provisions shall apply.
EC-103 04-21-15 Wood Excelsior Mat for Slope Protection EC-104 04-17-18 Turf Reinforced Mat (TRM) EC-201 10-15-19 Silt Fence EC-303 04-16-19 Stabilized Construction Entrance		 Follow all laws, rules and regulations related to the handling of pesticides, including but not limited to: a. Follow all herbicide label directions, restrictions, and precautions. b. The company responsible for the herbicide applicator must be licensed with Iowa Department of Agriculture and Land Stewardship (IDALS) as a commercial pesticide applicator company. c. The person applying the herbicide must be certified through
232-11 04-16-19	232-3C 04-16-19	IDALS as a pesticide applicator in Category 6, Right-of-Way. For herbicide applications that require an aquatic certification, the applicator must also be certified as a pesticide applicator in Category 5, Aquatics.
EROSION CONTROL		 d. Use herbicide and adjuvant products labeled for the application site:
(STABILIZING CROP SEEDING) If outside of permanent seeding dates in Section 2601 of the	(NATIVE GRASS SEEDING) Following the completion of work in a disturbed area and according	 i. For applications on the primary highway right-of-way, use only products labeled for use on highway rights-of-way or
<pre>Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows: Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will not be paid for separately. 232-3A</pre>	<pre>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: SEED MIX: 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) Partridge Pea (Chamaecrista fasciculata) 4 lbs. PLS/Acre (4.5 kg/ha) Sideoats grama (Bouteloua curtipendula) 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)</pre>	 roadsides. ii. For applications to or over water, use only products labeled for corresponding use in aquatic sites, unless intermittent pockets of standing water, such as tire ruts, and the product is labeled for such use. iii. For applications to areas in the water conveyance portion of the ditch that do not contain water at the time of application, use only products labeled for non-irrigation ditch banks or aquatic sites. e. Do not apply any herbicide to or over standing or flowing water unless required coverage is obtained under a National Pollutant Discharge and Elimination System (NPDES) Pesticide Discharge Permit through Iowa DNR. If standing or flowing water is encountered in areas when they need to be sprayed, notify Iowa DOT (Roadside Development) to determine if submittal of a Notice of
04-16-19 EROSION CONTROL	Oats (Avena sativa) 32 lbs./Acre (36.0 kg/ha)	Intent (NOI) is required.
(RURAL SEEDING)	Furnish Big bluestem, Indiangrass, Canada wildrye and Little bluestem that is debearded or equal to facilitate the application	Schedule work according to weather conditions and take measures to avoid off-target damage, such as runoff, leaching, drift and
Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows: Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.	<pre>Furnish seed certified as Source Identified Class (Yellow Tag) Source G0-Iowa. Oats are excluded from this requirement. Place seed according to the requirements of Article 4169.02 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed and mulch are incidental to mobilization and will not be paid for separately.</pre>	 a. Do not spray herbicide 24 hours prior to forecast precipitation that is expected to cause significant runoff conditions. b. For areas with saturated soil, such as ditch bottoms, do not spray herbicide 24 hours prior to forecast precipitation, unless using products labeled for aquatic sites. c. For conventional applications, avoid applications when wind speed exceeds 10 mph. For invert applications, use a drift retardant and maintain drift control throughout the application period by adding more to the tank as it breaks down from agitation. e. Avoid spraying volatile products when temperatures are forecast to exceed 85° F within 3 days.
281-3 10-17-17		f. Check the IDALS Sensitive Crops Directory and do not spray adjacent to a listed operation when wind is blowing towards it.
STORM WATER		 Respond to allegations of any off-target damage attributed to handling and spraying of herbicide.
BEST MANAGEMENT PRACTICES When the following best management practices are used, they are intended to account for disturbed areas where storage volume cannot be provided: Silt Fence and TRM Type II		 4. Provide the following documents to the Engineer for approval not less than 2 weeks prior to the application. a. A copy of the herbicide and adjuvant labels, including any applicable supplemental labels. b. A copy of the herbicide and adjuvant Material Safety Data Sheets (MSDS.) 5. Have copies of the herbicide and adjuvant labels and MSDSs on-hand and at locations of storage, transport, and application. 6. Schedule work to maximize efficiency of the herbicide application in relation to weather conditions and plant growth stage. Follow any label recommendations given as "for best results." a. For weed applications: i. To determine if weeds are "actively growing," use as a guideline that there needs to have been at least 1 hour of temperature above 65° F and 1 hour of sun in the day prior to, of, or forecast before a rain the day after the application. ii. For spring applications to thistles, apply after basal leaves of Canada thistles are fully extended, and after rosettes of musk thistle are at least 8 inches diameter, but before flower stage. iii. For fall applications to thistles, apply prior to the second hard freeze of 28° F, unless otherwise listed in the label
		directions. b. For tree and brush applications:

FILE NO.		ENGLISH	DESIGN TEAM GODBOLD POHLEN MCDONALD	DUBUQUE COUNTY	PROJECT NUMBER NHS	5N-020-9(26
3/17/2020	3.05.57 DM	nnohlen	c:\nw work\nwmain\idotcentral nnohlen\d0998105\31020266 PC01 vlsm			

231-2 10-16-12

HERBICIDE

i. For foliar applications and cut stump/surface applications with water-soluble products, apply after leaves are fully opened in the spring and prior to leaf discoloration in the fall.

231-2 10-16-12

tall. ii. For cut stump applications with oil soluble products, do not apply during periods of heavy sap flow. Use as a guideline that heavy sap flow occurs in late winter to early spring when nightime temperatures below 32° F are followed by daytime transferred to be found to be added by the second to be added by the second by the s

temperatures above 32° F with sunny conditions. iii. For cut stump and basal bark applications, add sufficient dye so that treated areas are visible to inspection 7 days after application.

7. Notify the Engineer prior to calibrating, mixing and applying herbicides, including incidental items.

8. Provide copies of daily spray logs to the RCE at the end of each week of spraying (form provided by Iowa DOT).

9. If Contractor does not complete spray item on schedule, the Engineer may adjust the schedule.

56)2R-31	SHEET NUMBER	RC.2	

	Locatio						101, EC-103 Turf Rei	nforcement		(EC-104)	Slope Protection	Special Ditch		
Road Identification		Begin	End	Side			Type 1	Type 2	Type 3	Type 4	(EC-103)	Control (EC-101)	Remarks	
		5	Station Station	Station		FT	FT	Squares		Squares	Squares	Squares	Squares	
	Hwy 20	2343+75.00	2344+05.00	Lt	30	120		36						
	Hwy 20	2343+75.00	2344+05.00	Lt	30	120					36			
Rolled Erosion Control Tab	Totals:							36			36			

FILE NO.	ENGLISH	DESIGN TEAM GODBOLD POHLEN MCDONALD	DUBUQUE COUNTY PROJECT NUME	ER NHSN-020-9(266)
2/17/2020 2:0E:E7 DM				

Refer to EC-201

Length

LF

75.0

75.0

Remarks

93.8125% of Tab Total9.410% of Bid Total93.8100% of Bid Total

Location

Begin Station End Station Side

2343+65.00 2344+35.00 Lt

SF Bid Totals: SF maintenance Totals: SF Removal Totals:

SF Tab Totals:

66)2R-31	SHEET NUMBER	RC.3	

	Temporary Sediment Control basin Erosion Control for Circular Intake or Manhole Well Grate Intake Sediment Filter Bag Silt Basin Silt Fence Tail Stormwater Drainage Basin Discharge Point	Seeding and Fertilizing R Seeding and Fertilizing (Rural) Seeding and Fertilizing (Urban) N Native Grass Seeding ST Salt Tolerant Seeding W Wetland Grass Seeding WF Wildflower Seeding Sob Sodding
	CELL LEGEND OF EROSION CONTROL SHEETS	PATTERN LEGEN
	- Sheet Flow	SHADING Design Color No. Citron (234) Light Brown (238) Special Diterval
2	 Silt Fence Perimeter and Slope Sediment Control Device (9") Perimeter and Slope Sediment Control Device (12") Perimeter and Slope Sediment Control Device (20") Open-Throat Curb Intake Sediment Filter Concentrated Flow 	Green(2)Existing TopBlue(1)Proposed AlMagenta(5)Existing Ut:Black(0)Permanent EBlaze Orange(222)Temporary E
		LINEWORK Design Color No.

LEGEND OF EROSION CONTROL SHEETS

opographic Features and Labels lignment, Stationing, Tic Marks, and Alignment Annotation tilities Erosion Control Features Erosion Control Features

All Types ch Control, Wood Excelsior Mat

Transparency										
50%										
Ø%										

ND OF EROSION CONTROL SHEETS

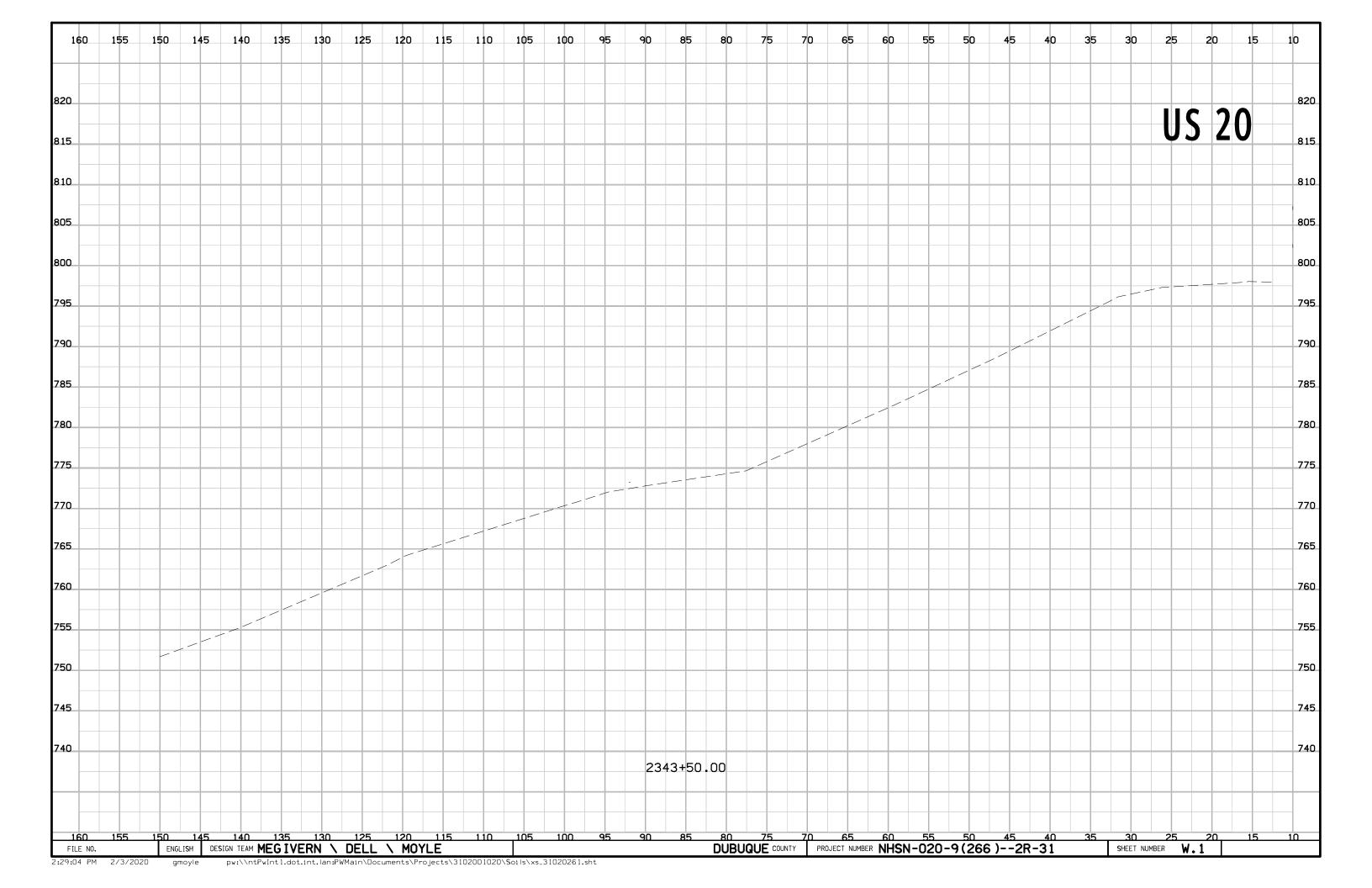
	Turf Reinforcement Mat Type 1
	Turf Reinforcement Mat Type 2
	Turf Reinforcement Mat Type 3
	Turf Reinforcement Mat Type 4
	Slope Protection, Wood Excelsior Mat
	Transition Mat
°6°°6° °6°°6° °6°°6°	Rock Features, Permanent
ूर∘ूर ₁ ॰ ₅⊺ • ू ∕ ० ∕	Rock Features, Temporary

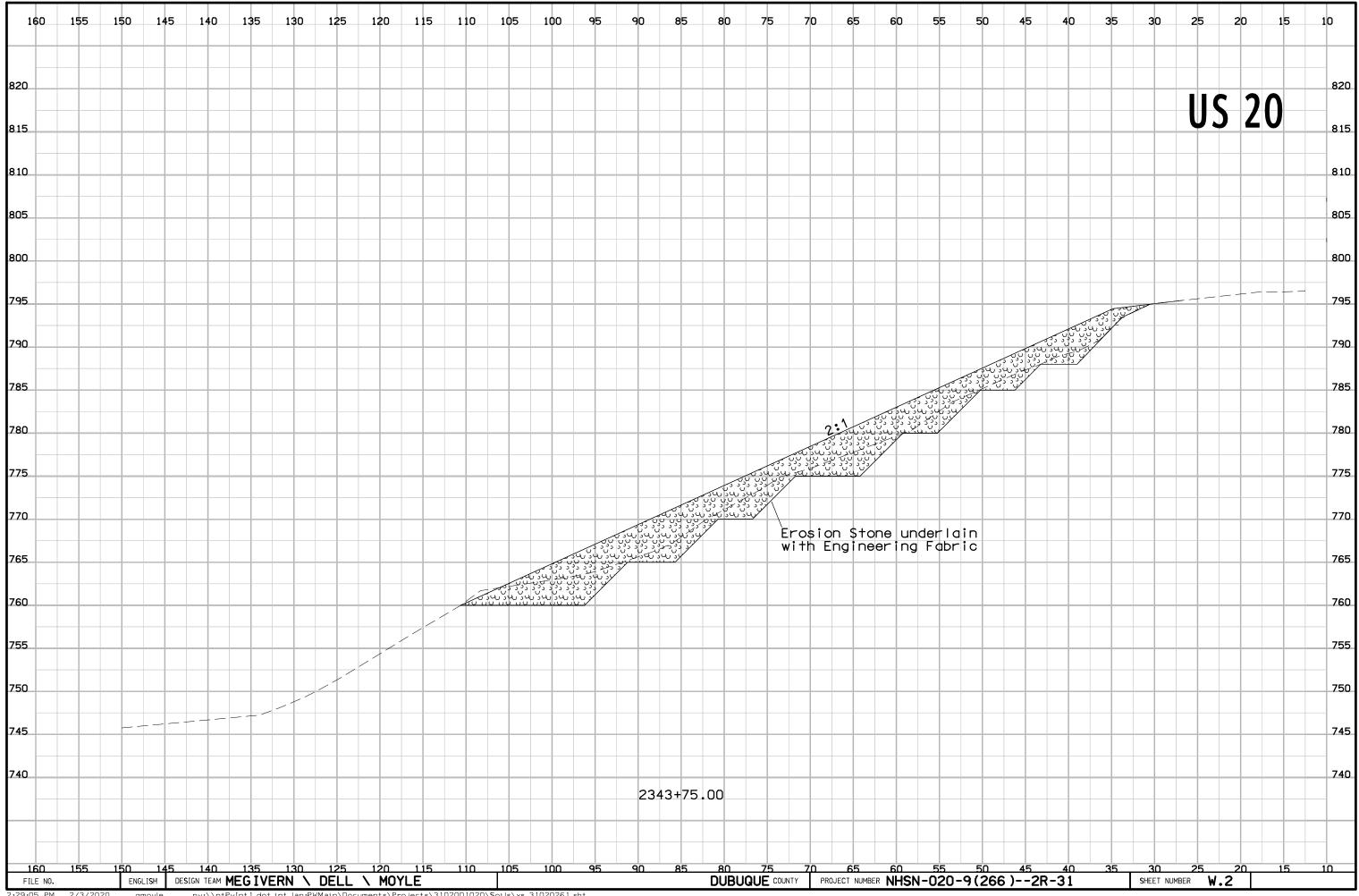
EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

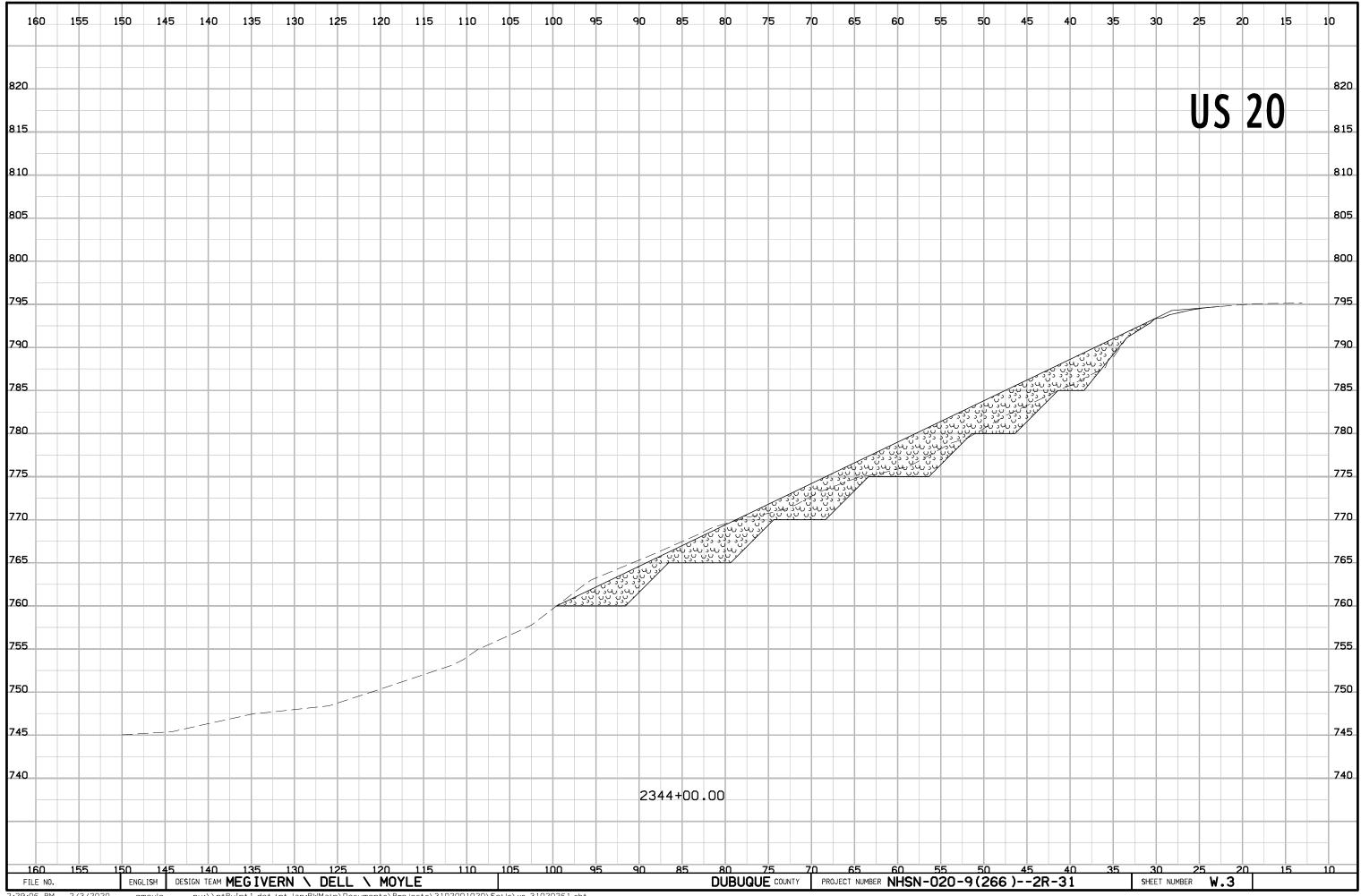
(COVERS SHEET SERIES R)

6)--2R-31









16	50 1	155	150	14	45	14	łO	1	35	1:	30	12	:5	120	0	11!	5	11	0	105	5	100)	95		90	8	5	80		75		70	6	5	6	0	55	5	50	4
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810														_		_		_		_		_				_															
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785																						+																			7
780																																							/		
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	50 1 E NO.	55	150 EN	14 GLISH	45 DES	SIGN T	EAM 🖡	1EG	5 I V E	ERN		DEI	_L	120	10Y	LE						100		95		90	8	5	80 DUE	3UQ	75 UE 👓	UNTY	PRC	6 Dject	5 NUMBE	R N	n HSN -	55 -020	-9(;	50 266	<u>4</u> 5)

