

HMA RESURFACING
FM-C005(72)--55-05
AUDUBON CO.

LETTING DATE
19-Nov-2019



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM TO MARKET ROAD SYSTEM
AUDUBON COUNTY
HMA RESURFACING

On N36, from US Hwy 44
North 4 Miles to Co. Hwy F32

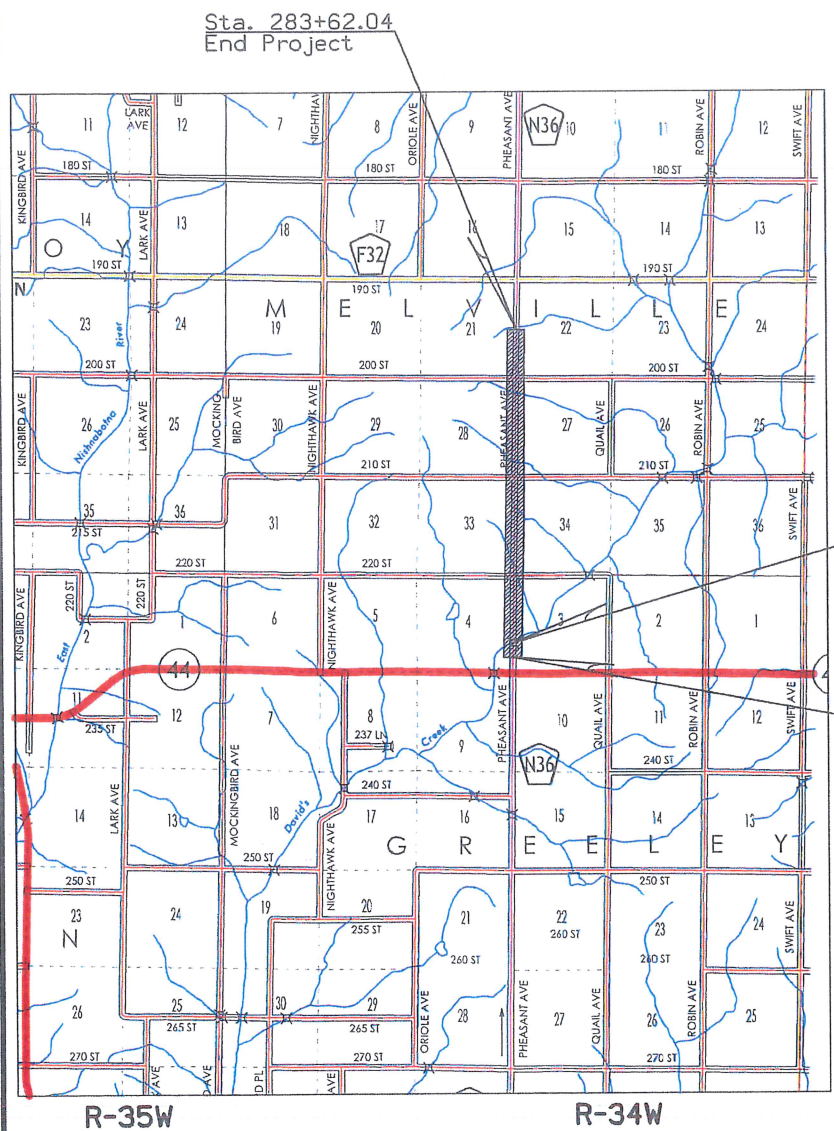
SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

For Standard Road Plans Refer to Sheet No. C.2

For Utility Contacts Refer to Sheet No. D.1



T-80N

T-79N

FHWA No. 67280

Sta. 106+01.46
Begin Project

MILEAGE SUMMARY			
105-1			
9-27-94			
Div.	Location	Lin. Ft.	Miles
1	County Highway N36 Sta. 106+01.46 to Sta. 283+62.04 Deduct Bridge and Approaches at Approx. Sta. 116+25.00	17,760.58 -273.58	3.36 -0.05
1	Total Length of Roadway	17,487.00	3.31
	Total Length of Bridge	273.58	0.05
1	Total Project	17,760.58	3.36

DESIGN DATA RURAL			
2016	AADT	240	V.P.D.
20--	AADT	--	V.P.D.
20--	DHV	--	V.P.H.
	TRUCKS	--	%
	Total		
	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Cody F. Forch	Primary Signature Block

REVISIONS

TOTAL	21
PROJECT IDENTIFICATION NUMBER	
PROJECT NUMBER	
FM-C005(72)--55-05	
R.O.W. PROJECT NUMBER	

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 2	Typical Cross Sections and Details
C Sheets	Quantities and General Information
C.1	Project Description/Estimated Roadway Quantities
C.2	Estimate Reference Information
C.3 - 5	Tabulations (beg. with tab. of incidentals if needed)
C.6	General Notes
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 10	County Highway N36
G Sheets	Survey Sheets
G.1	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
* J.1	Traffic Control Plan
	* Color Plan Sheets

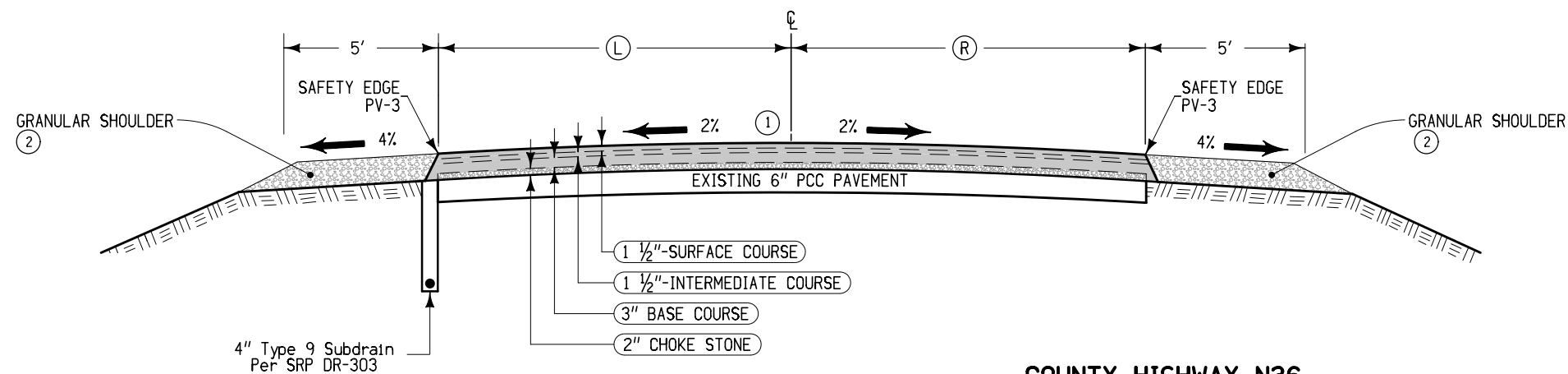
AUDUBON COUNTY, IOWA

Mitchell J. Rydl 8/20/19
Mitchell J. Rydl, PE
COUNTY ENGINEER
ACCEPTED FOR LETTING

Todd M. Nelsen 8-20-19
Todd M. Nelsen, Chairman
Rick Thompson 8-20-19
Rick Thompson
Gary VanAernam 8-20-19
Gary VanAernam
BOARD OF SUPERVISORS



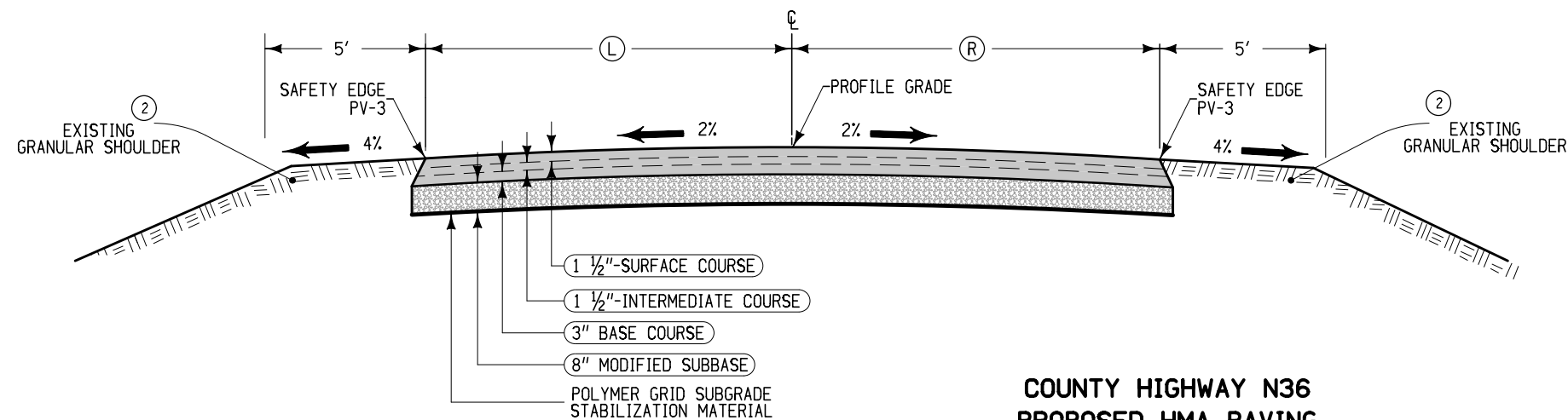
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Cody F. Forch 8/16/19
Signature
CODY F. FORCH, P.E.
Printed or Typed Name
My license renewal date is December 31, 20 20
Pages or sheets covered by this seal: A.1, B.1-B.2, C.1-C.6, D.1-D.10, G.1, J.1



**COUNTY HIGHWAY N36
PROPOSED HMA RESURFACING
TYPICAL SECTION**

- Notes:
- ① MATCH FINISHED SLOPE TO EXISTING PAVEMENT, EXCEPT THAT THE MAXIMUM ALLOWABLE SLOPE IS 3.0 %, MINIMUM ALLOWABLE SLOPE IS 2.0 %. SECTION MAY BE MODIFIED AS DIRECTED BY THE ENGINEER THROUGH AREAS OF SPECIAL SHAPING.
 - ② REFER TO "TYPICAL SECTION FOR TYPE 'B' GRANULAR SHOULDER" ON SHEET B.2

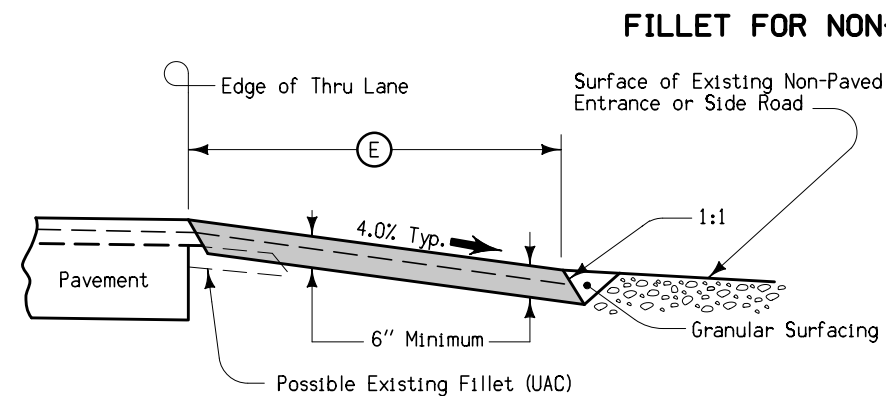
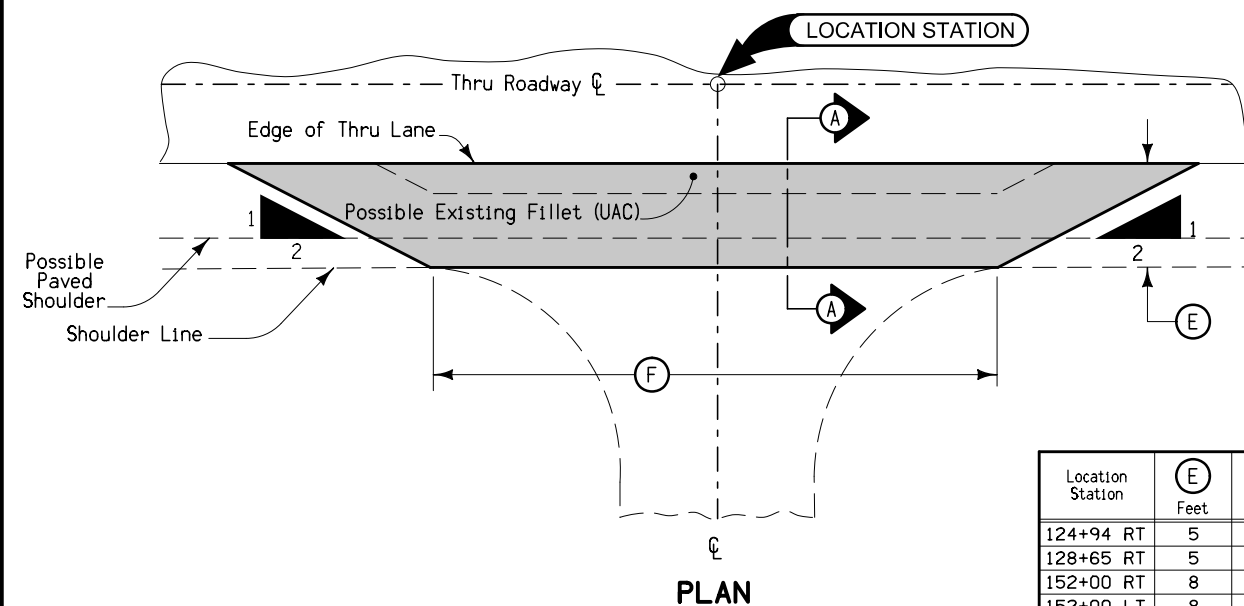
LOCATION			(L)	(R)
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet
COUNTY HIGHWAY N36	121+89.98	279+62.04	11	11



**COUNTY HIGHWAY N36
PROPOSED HMA PAVING
TYPICAL SECTION**

- Notes:
- ① REMOVE EXISTING PAVEMENT AND GRADE TO ACCOMMODATE PROPOSED PAVEMENT
 - ② CONTRACTOR SHALL PLACE VIRGIN GRANULAR MATERIAL PER TYPICAL SECTION FOR TYPE 'B' GRANULAR SHOULDER ON SHEET B.2 AND RESHAPE EXISTING SHOULDER TO MATCH PROPOSED EDGE OF PAVEMENT.

LOCATION			(L)	(R)
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet
COUNTY HIGHWAY N36	106+01.46	115+16.40	11	11
COUNTY HIGHWAY N36	117+89.98	121+89.98	11	11
COUNTY HIGHWAY N36	279+62.04	283+62.04	11	11

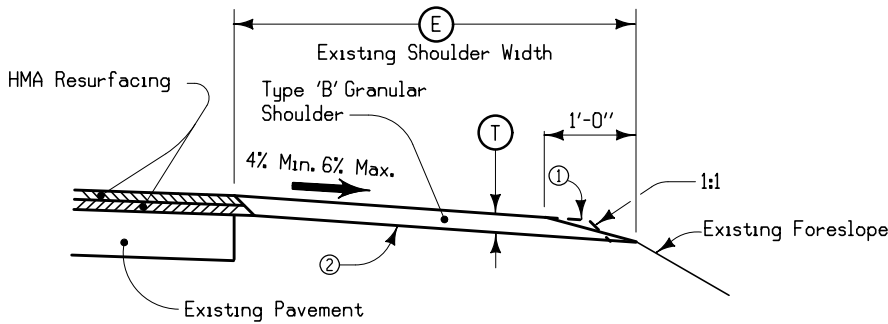


FILLET FOR NON-PAVED ENTRANCES OR SIDE ROADS

7148
10-21-14

Special shaping of existing surface prior to placement of fillet may be required by the Engineer and is incidental to other work on the project.
Quantities included with mainline quantities.

Location Station	(E) Feet	(F) Feet	Location Station	(E) Feet	(F) Feet	Location Station	(E) Feet	(F) Feet	Location Station	(E) Feet	(F) Feet	Location Station	(E) Feet	(F) Feet
124+94 RT	5	29	197+50 RT	5	98	217+35 RT	5	63	237+12 RT	5	39	270+63 RT	5	67
128+65 RT	5	35	204+53 RT	8	101	220+70 RT	5	67	254+69 LT	5	53			
152+00 RT	8	78	204+53 LT	8	101	230+80 RT	5	59	257+32 RT	8	69			
152+00 LT	8	75	216+35 RT	5	66	235+70 RT	5	68	257+32 LT	8	69			



TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER

ADJACENT TO HOT MIX ASPHALT

LOCATION					(T)	(E)
ROAD IDENTIFICATION	STATION TO STATION		SIDE	Inches	Feet	
COUNTY HIGHWAY N36	106+01.46	115+16.40	BOTH	1	6	
COUNTY HIGHWAY N36	117+89.98	121+89.98	BOTH	1-8	6	
COUNTY HIGHWAY N36	121+89.98	279+62.04	BOTH	8	6	
COUNTY HIGHWAY N36	279+62.04	283+62.04	BOTH	8-1	6	

100-1D 10-18-05				
PROJECT DESCRIPTION				
THIS PROJECT CONSISTS OF RUBBLIZING THE EXISTING PAVEMENT, AN INTERLAYER OF CHOKE STONE, 22-FOOT WIDE 6-INCH HOT MIX ASPHALT PAVING WITH SAFETY EDGE AND LONGITUDINAL SUBDRAIN ALONG WITH SUBDRAIN OUTLETS. THIS PROJECT ALSO INCLUDES THE CONSTRUCTION OF TYPE B GRANULAR SHOULDERS AND PAVEMENT MARKINGS.				

100-0A
10-28-97

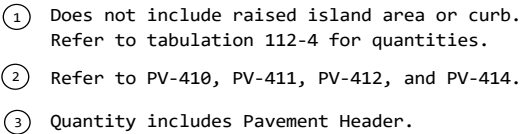
ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
10	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	714.3	
20	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	4192.1	
30	2115-0100000	MODIFIED SUBBASE	CY	936.3	
40	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	8579.1	
50	2210-0475105	CHOKE STONE BASE	TON	4250.6	
60	2217-1000000	RUBBLIZED PAVEMENT	SY	38554	
70	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX	TON	7339.9	
80	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	3772.9	
90	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX,	TON	3651.6	
		NO FRICTION REQUIREMENTS			
100	2303-1258283	ASPHALT BINDER, PG. 58-28S	TON	885.9	
110	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1	
120	2312-8260061	GRANULAR SURFACING ON ROAD, CLASS B CRUSHED STONE	TON	180	
130	2315-8275025	SURFACING, DRIVEWAY, CLASS B CRUSHED STONE	TON	165	
140	2502-8212034	SUBDRAIN, 4" LONGITUDINAL (SHOULDER)	LF	4415	
150	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	20	
160	2510-6745850	REMOVAL OF PAVEMENT	SY	4192.1	
170	2518-6910000	SAFETY CLOSURE	EACH	8	
180	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	558.3	
190	2528-8445110	TRAFFIC CONTROL	LS	1	
200	2533-4980005	MOBILIZATION	LS	1	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
10	2102-2710090	EXCAVATION, CLASS 10, WASTE TYPE 'A' COMPACTION IS REQUIRED. COMPACTION TESTING IS DEEMED INCIDENTAL TO THIS ITEM. ALL REMAINING WASTE MATERIAL SHALL BE OFFERED TO AUDUBON COUNTY FOR USE, OTHERWISE SHALL BE THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. QUANTITY BASED ON MATERIAL EXCAVATED FOR MODIFIED SUBBASE PLACEMENT.	
20	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID REFER TO TYPICAL SECTIONS OF SHEET B.1. ITEM MAY BE REFERRED TO "GEOGRID" WITHIN THE PLANS. MATERIAL SHALL BE PLACED UNDER ALL AREAS RECEIVING MODIFIED SUBBASE. MATERIALS TO MEET REQUIREMENTS OF ARTICLE 4196.01, B, 5 IN THE STANDARD SPECIFICATIONS. MATERIAL FOR OVERLAPS WILL NOT BE MEASURED FOR PAYMENT. REFER TO TABULATION 103-3.	
30	2115-0100000	MODIFIED SUBBASE REFER TO TYPICAL SECTIONS ON SHEET B.1 AND TABULATION 103-3 FOR ADDITIONAL INFORMATION. MODIFIED SUBBASE SHALL CONSIST OF VIRGIN MATERIAL. 140 PCF WAS USED TO CALCULATE THIS QUANTITY. ALL REMAINING MODIFIED SUBBASE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.	
40	2121-7425020	GRANULAR SHOULDERS, TYPE B GRAVEL/LIMESTONE MIXTURE IS NOT ALLOWED. SHOULDER MATERIAL SHALL BE LIMESTONE. GRANULAR SHOULDERING MATERIAL SHALL BE PLACED ADJACENT TO HMA OVERLAY AS SHOWN ON THE DETAIL ON SHEET B.1 AND B.2. 5% ADDED FOR IRREGULARITIES GRANULAR SHOULDERING MATERIAL SHALL BE PLACED ADJACENT TO HMA PAVING. DEPTH VARIES THROUGHOUT PROJECT. REFER TO TABULATION 112-9 ON SHEET C.4 FOR DEPTHS. 140 PCF WAS USED TO CALCULATE THIS QUANTITY. STOCKPILING OF SHOULDER ROCK ONLY WITH APPROVAL FROM COUNTY ENGINEER.	
50	2210-0475105	CHOKE STONE BASE CHOKE STONE BASE PER SECTION 2210 OF THE STANDARD SPECIFICATIONS AS PERTAINING TO CHOKE STONE. NO PREWETTING, NO DENSITY WILL BE REQUIRED. CHOKE STONE BASE WILL BE PLACED WHERE PCC IS RUBBLIZED AND IS INTENDED SOLELY TO REGULARIZE THE PROFILE OF THE RUBBLIZED CONCRETE PRIOR TO PLACEMENT OF HMA. ONE LANE OF CHOKE STONE APPLICATION IS PERMITTED AT A TIME. USE CLASS "A" ROAD STONE. 5% ADDED FOR IRREGULARITIES. 140 PCF WAS USED TO CALCULATE THIS QUANTITY. A WIDTH OF 22 FEET WAS USED FOR CALCULATION.	
60	2217-1000000	RUBBLIZED PAVEMENT THIS ITEM INCLUDES ALL RUBBLIZING OF EXISTING 22 FOOT WIDE, 6" DEEP MAINLINE PCC PAVEMENT. PCC PAVEMENT IN SURFACE RUNOUT/PAVEMENT REMOVAL SHALL NOT BE RUBBLIZED. REFER TO TYPICAL SECTIONS ON SHEET B.1 AND TABULATION 110-6 ON SHEET C.3 FOR LOCATIONS AND DETAILS.	
70	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX REFER TO B SHEETS, TABULATION 100-25 ON SHEET C SHEETS, AND D SHEETS FOR DETAILS AND LOCATIONS. QUANTITIES ARE BASED ON A DENSITY OF 147 PCF AND INCLUDE THE SAFETY EDGE. USE PG 58-28S ASPHALT BINDER. CONTRACTOR SHALL CORRECT CROSS SLOPE TO A NORMAL CROWN OF 2%. THE BASE COURSE SHALL BE A MINIMUM DEPTH OF 3". PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH PROVIDING QUALITY MANAGEMENT-ASPHALT (QM-A), INCLUDING CERTIFIED PLANT INSPECTION. PWL VOID INCENTIVE/DISINCENTIVE APPLIES TO THIS PROJECT.	
80	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX REFER TO B SHEETS, TABULATION 100-25 ON SHEET C SHEETS, AND D SHEETS FOR DETAILS AND LOCATIONS. QUANTITIES ARE BASED ON A DENSITY OF 147 PCF AND INCLUDE THE SAFETY EDGE. USE PG 58-28S ASPHALT BINDER. THE INTERMEDIATE COURSE SHALL BE A MINIMUM DEPTH OF 1.5". PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH PROVIDING QUALITY MANAGEMENT-ASPHALT (QM-A), INCLUDING CERTIFIED PLANT INSPECTION. PWL VOID INCENTIVE/DISINCENTIVE APPLIES TO THIS PROJECT.	
90	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO FRICTION REQUIREMENTS REFER TO B SHEETS, TABULATION 100-25 ON SHEET C SHEETS, AND D SHEETS FOR DETAILS AND LOCATIONS. QUANTITIES ARE BASED ON A DENSITY OF 147 PCF AND INCLUDE THE SAFETY EDGE. USE PG 58-28S ASPHALT BINDER. CONTRACTOR SHALL CORRECT CROSS SLOPE TO A NORMAL CROWN OF 2%. THE SURFACE COURSE SHALL BE A MINIMUM DEPTH OF 1.5". PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH PROVIDING QUALITY MANAGEMENT-ASPHALT (QM-A), INCLUDING CERTIFIED PLANT INSPECTION. SMOOTHNESS AND PWL VOID INCENTIVE/DISINCENTIVE APPLIES TO THIS PROJECT.	
100	2303-1258283	ASPHALT BINDER, PG. 58-28S QUANTITIES ARE BASED ON 6.0% OF THE SURFACE, INTERMEDIATE AND BASE MIXES.	
110	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES ITEM INCLUDES THE REQUIRED SAMPLING AND TESTING DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TYPE 'A' SMOOTHNESS AND PWL VOIDS APPLIES TO THIS PROJECT.	
120	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS B CRUSHED STONE CONTRACTOR SHALL PLACE GRANULAR SURFACING ON EACH SIDE ROAD TO TIE INTO PROPOSED HMA FILLET. QUANTITY BASED ON 30 TON PER LEG OF SIDE ROAD.	
130	2315-8275025	SURFACING, DRIVEWAY, CLASS B CRUSHED STONE CONTRACTOR SHALL PLACE CLASS B CRUSHED STONE. REFER TO TABULATION 102-3 ON SHEET C.5 FOR DETAILS AND LOCATIONS.	
140	2502-8212034	SUBDRAIN, 4" LONGITUDINAL (SHOULDER) REFER TO TYPICAL SECTION ON SHEET B.1 AND TABULATION 104-9 ON C SHEETS FOR DETAILS AND LOCATIONS. CONTRACTOR TO NOTIFY IOWA ONE-CALL AND UTILITIES PRIOR TO EXCAVATION.	
150	2502-8221305	SUBDRAIN OUTLET, DR-305 REFER TO TABULATION 104-9 ON SHEET C.4 FOR DETAILS AND LOCATIONS. REFER TO IDOT STANDARD ROAD PLAN DR-305.	
160	2510-6745850	REMOVAL OF PAVEMENT REFER TO TABULATION 110-1 ON SHEET C.3 FOR DETAILS AND LOCATIONS. ITEM INCLUDES PAVEMENT REMOVED FOR HMA PAVING. SALVAGED PAVEMENT DELIVERED TO AUDUBON COUNTY, 2147 US HWY. 71.	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
170	2518-6910000	SAFETY CLOSURE REFER TO TABULATION 108-13A ON SHEET C.3 FOR DETAILS AND LOCATIONS.	
180	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED REFER TO TABULATION 108-22 ON SHEET C.5 FOR DETAILS AND LOCATIONS. TABULATION REFERS TO IOWA STANDARD ROAD PLAN PM-110 FOR LINE TYPE DETAILS. ENGINEER SHALL ASSIST CONTRACTOR IN MARKING LOCATIONS OF PAVEMENT MARKINGS. PROPOSED PAVEMENT MARKINGS WERE DETERMINED BASED ON EXISTING LINES.	
190	2528-8445110	TRAFFIC CONTROL THIS ITEM INCLUDES TRAFFIC CONTROL PER TRAFFIC CONTROL PLAN ON SHEET J.1.	
		ROAD CLOSED TO THRU TRAFFIC DURING CONSTRUCTION. CONTRACTOR TO RUBBLIZE ONE LANE, FOLLOWED BY CHOKE STONE AND HMA BASE COURSE BEFORE STARTING ON ADJACENT LANE TO ACCOMMODATE LOCAL TRAFFIC.	
		TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, ERECT AND MAINTAIN ADVANCE WARNING SIGNS AT THE PROJECT APPROACHES AND THE WORK ZONE. TRAFFIC CONTROL REQUIRED BY THE STANDARD ROAD PLANS NAMED ON SHEET J.1.	
200	2533-4980005	MOBILIZATION - -	

INDEX OF TABULATIONS			111-25 10-18-11
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-0A	ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)	C.1	
100-1D	PROJECT DESCRIPTION	C.1	
111-25	INDEX OF TABULATIONS	C.2	
100-4A	ESTIMATE REFERENCE INFORMATION	C.2	
105-4	STANDARD ROAD PLANS	C.2	
100-25	HMA PAVEMENT	C.3	
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103-3	PROPOSED SUBGRADE TREATMENT	C.3	
110-1	REMOVAL OF PAVEMENT	C.3	
110-6	BREAKING UP PAVEMENT	C.3	
112-9	SHOULDERS	C.4	
104-9	LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE	C.4	
102-3	ACCESS POINTS AND SAFETY RAMPS	C.5	
108-22	PAVEMENT MARKING LINE TYPES	C.5	

STANDARD ROAD PLANS			105-4 10-18-11
The following Standard Road Plans apply to construction work on this project.			
Number	Date	Title	
DR-303	10-17-17	Subdrains (Longitudinal)	
DR-305	04-17-18	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)	
PM-110	10-16-18	Line Types	
PM-420	10-15-19	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)	
PM-520	10-15-19	Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)	
PV-3	04-16-19	Safety Edge	
PV-202	04-16-13	Hot Mix Asphalt Resurfacing	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-233	10-17-17	Pavement Marking Operations Two-Lane	
TC-252	04-19-16	Routes Closed to Traffic	
TC-282	10-15-19	Uneven Lanes	
TC-284	10-15-19	No Centerline Markings on Non-Primary Roadways	

[illegible]

103-3
10-16-12

[illegible]

110-6
08-01-08

Station to Station		Width	Area	Remarks
			SY	
121+89.98	279+62.04	22.0	38554.0	

110-1
04-16-13

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
106+01.46	115+16.40	BOTH	PCC	2236.5	44.0	REMOVAL OF PAVEMENT FOR HMA PAVING
117+89.98	121+89.98	BOTH	PCC	977.8	44.0	REMOVAL OF PAVEMENT FOR HMA PAVING
279+62.04	283+62.04	BOTH	PCC	977.8	44.0	REMOVAL OF PAVEMENT FOR HMA PAVING

108-13A
08-01-08

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
106+01.46	1		N36
151+98.61	2		220th Street
204+63.69	2		210th Street
257+34.86	2		200th Street
283+62.04	1		N36

112-9 10-15-13																								
SHOULDERS																								
① Lane(s) to which the shoulder is adjacent. ② Bid Item ③ Applies only for Paved Shoulders constructed on project with existing granular shoulders. ④ Does not include shrink.																								
Calculations assume a HMA unit weight (lbs/cf) of 0, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.																								
Location					Quantities																			Remarks
Road Identification	① Direction Of Traffic	Station to Station		Side	<div>P</div>	<div>G</div>	<div>L</div>	Class 13 Excavation	Hot Mix Asphalt		Binder	Paved Shoulder	Reinforced Paved Shoulder	Special Backfill				Modified Subbase	Granular Shoulder		Earth Shoulder Construction Alternates			
					Width	Width	Length							HMA Alternate		PCC Alternate					STA ②	HMA CY ④	PCC CY ④	
		FT	FT	FT	CY ②	TON	TON/STA	TONS	SY ②	SY ②	TON ②	TON/STA	TON ②	TON/STA	CY ②	TON ②	TON/STA							
N36	NBL	106+01.46	115+16.40	RT		6.0	914.9											52.723	5.762					
N36	SBL	106+01.46	115+16.40	LT		6.0	914.9											52.723	5.762					
N36	NBL	117+89.98	121+89.98	RT		6.0	400.0											56.554	14.139					
N36	SBL	117+89.98	121+89.98	LT		6.0	400.0											56.554	14.139					
N36	NBL	121+89.98	279+62.04	RT		6.0	15772.1											3919.467	24.851					
N36	SBL	121+89.98	279+62.04	LT		6.0	15772.1											3919.467	24.851					
N36	NBL	279+62.04	283+62.04	RT		6.0	400.0											56.554	14.139					
N36	SBL	279+62.04	283+62.04	LT		6.0	400.0											56.554	14.139					

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE																			104-9 10-17-17	
Refer to Soils Sheets																				
* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.																				
Location				Side	Depth	Longitudinal Subdrain (DR-303)						Subdrain Outlet		Porous* Backfill	Class "A"* Crushed Stone	Remarks				
Line No.	Road or Lane Identification	Station to Station			<div>D</div>	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306							
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station				Standard Road Plan and Type			
					IN	IN	FT	IN	FT		IN	FT			CY	CY				
1	SBL	141+48.61	146+48.61	LT	36.0	4.0	560.0						141+48.61	DR-305, Type A	43.2					
													146+48.61	DR-305, Type A						
2	SBL	146+48.61	151+48.61	LT	36.0	4.0	540.0						146+48.61	DR-305, Type A	41.7					
													151+48.61	DR-305, Type A						
3	SBL	152+98.61	157+73.61	LT	36.0	4.0	515.0						152+98.61	DR-305, Type A	39.7					
													157+73.61	DR-305, Type A						
4	SBL	158+67.00	162+67.00	LT	36.0	4.0	440.0						158+67.00	DR-305, Type A	34.0					
													162+67.00	DR-305, Type A						
5	SBL	179+32.00	181+02.00	LT	36.0	4.0	210.0						179+32.00	DR-305, Type A	16.2					
													181+02.00	DR-305, Type A						
6	SBL	198+83.00	200+83.00	LT	36.0	4.0	240.0						198+83.00	DR-305, Type A	18.5					
													200+83.00	DR-305, Type A						
7	SBL	221+20.00	226+20.00	LT	36.0	4.0	540.0						221+20.00	DR-305, Type A	41.7					
													226+20.00	DR-305, Type A						
8	SBL	226+20.00	231+20.00	LT	36.0	4.0	540.0						226+20.00	DR-305, Type A	41.7					
													231+20.00	DR-305, Type A						
9	SBL	249+69.00	254+19.00	LT	36.0	4.0	490.0						249+69.00	DR-305, Type A	37.8					
													254+19.00	DR-305, Type A						
10	SBL	276+02.00	279+02.00	LT	36.0	4.0	340.0						276+02.00	DR-305, Type A	26.2					
													279+02.00	DR-305, Type A						
Totals							4415.0							DR-305, Type A = 20	340.7					

PAVEMENT MARKING LINE TYPES

See PM-110

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELW4: Edge Line Right (White) @ 1.00

			Location			Length by Line Type (Unfactored)																	Remarks	
Road ID	Station to Station		Dir. of Travel	Marking Type		Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4										
						L	C	R																
N36	106+01.46	123+58.22	BOTH	Waterborne/Solvent Paint		X		17.57																
N36	123+58.22	132+23.00	NB	Waterborne/Solvent Paint		X				8.65														
N36	106+01.46	283+62.04	NB	Waterborne/Solvent Paint			X					177.61												
N36	106+01.46	283+62.04	SB	Waterborne/Solvent Paint	X							177.61												
N36	132+23.00	137+21.52	BOTH	Waterborne/Solvent Paint		X			4.99															
N36	137+21.52	146+79.83	SB	Waterborne/Solvent Paint		X				9.58														
N36	137+21.52	146+79.83	NB	Waterborne/Solvent Paint		X		9.58																
N36	146+79.83	169+96.47	BOTH	Waterborne/Solvent Paint		X		23.17																
N36	169+96.47	178+50.43	SB	Waterborne/Solvent Paint		X		8.54																
N36	169+96.47	178+50.43	NB	Waterborne/Solvent Paint		X				8.54														
N36	178+50.43	180+38.61	BOTH	Waterborne/Solvent Paint		X			1.88															
N36	180+38.61	188+07.14	SB	Waterborne/Solvent Paint		X				7.69														
N36	180+38.61	188+07.14	NB	Waterborne/Solvent Paint		X		7.69																
N36	188+07.14	189+59.01	BOTH	Waterborne/Solvent Paint		X			1.52															
N36	189+59.01	197+35.11	SB	Waterborne/Solvent Paint		X		7.76																
N36	189+59.01	197+35.11	NB	Waterborne/Solvent Paint		X				7.76														
N36	197+35.11	199+81.52	BOTH	Waterborne/Solvent Paint		X		2.46																
N36	199+81.52	208+90.80	SB	Waterborne/Solvent Paint		X				9.09														
N36	199+81.52	208+90.80	NB	Waterborne/Solvent Paint		X		9.09																
N36	208+90.80	221+65.06	BOTH	Waterborne/Solvent Paint		X		12.74																
N36	221+65.06	230+05.59	SB	Waterborne/Solvent Paint		X		8.41																
N36	221+65.06	230+05.59	NB	Waterborne/Solvent Paint		X				8.41														
N36	230+05.59	235+71.05	BOTH	Waterborne/Solvent Paint		X			5.65															
N36	235+71.05	244+63.90	SB	Waterborne/Solvent Paint		X				8.93														
N36	235+71.05	244+63.90	NB	Waterborne/Solvent Paint		X		8.93																
N36	244+63.90	249+70.03	BOTH	Waterborne/Solvent Paint		X		5.06																
N36	249+70.03	256+05.23	SB	Waterborne/Solvent Paint		X				6.35														
N36	249+70.30	256+05.23	NB	Waterborne/Solvent Paint		X		6.35																
N36	256+05.23	266+49.61	BOTH	Waterborne/Solvent Paint		X			10.44															
N36	266+49.61	270+39.06	SB	Waterborne/Solvent Paint		X		3.89																
N36	266+49.61	270+39.06	NB	Waterborne/Solvent Paint		X				3.89														
N36	270+39.06	272+93.42	BOTH	Waterborne/Solvent Paint		X			2.54															
N36	272+93.42	281+41.81	SB	Waterborne/Solvent Paint		X				8.48														
N36	272+93.42	281+41.81	NB	Waterborne/Solvent Paint		X		8.48																
N36	281+41.81	283+62.04	BOTH	Waterborne/Solvent Paint		X		2.20																

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

① Refer to MI-210

③ Refer to EW-501

*Predetermined for access po

Location	Type	Length of Opening (1)
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[illegible]

GENERAL NOTES

FENCES, ROAD SIGNS, AND MAIL BOXES SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. AUDUBON COUNTY ENGINEER SHALL BE NOTIFIED PRIOR TO ANY SIGN REMOVAL WITHIN THE ROAD RIGHT-OF-WAY.

CONTRACTOR SHALL MAINTAIN THE PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM ANY PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

IF CONTRACTOR FAILS TO CONTROL EROSION, POLLUTION AND/OR SILTATION, OWNER RESERVES THE RIGHT TO EMPLOY OUTSIDE ASSISTANCE TO PROVIDE THE NECESSARY CORRECTIVE MEASURES. SUCH INCURRED COSTS PLUS PROJECT ENGINEERING COSTS WILL BE CHARGED TO THE CONTRACTOR, AND APPROPRIATE DEDUCTIONS WILL BE MADE FROM THE CONTRACTOR'S MONTHLY PROGRESS ESTIMATE.

CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE CONSTRUCTION SITE FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREA(S) WILL BE SUBJECT TO THE APPROVAL OF ENGINEER AND OWNER.

ALL CONSTRUCTION IS SUBJECT TO OBSERVATION BY ENGINEER AND/OR COUNTY. CONTRACTOR SHALL NOTIFY JEO (712-792-9711) AND AUDUBON COUNTY ENGINEER (712-563-4286) 72 HOURS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR SHALL REQUEST CONSTRUCTION STAKES FROM JEO AT LEAST 72 HOURS BEFORE THE TIME HE/SHE WISHES TO COMMENCE CONSTRUCTION OPERATIONS. ENGINEER WILL FURNISH ONE SET OF CONSTRUCTION STAKES. COST OF ANY RESTAKING OR ADDITIONAL GRADE STAKES ORDERED BY CONTRACTOR WILL BE INVOICED TO THE CONTRACTOR BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE FROM THE ROAD SURFACE. NO STANDING WATER ALLOWED AT SUBBASE PATCH LOCATIONS. CONTRACTOR SHALL CUT DRAINAGE PATHS THROUGH SHOULDER AS NEEDED.

SHOULDERING OPERATIONS SHALL BEGIN IMMEDIATELY FOLLOWING THE PLACEMENT OF SURFACE COURSE.

CONTRACTOR TO NOTIFY IOWA ONE-CALL PRIOR TO EXCAVATION.

TRAFFIC CONTROL

IT SHALL BE CONTRACTOR'S RESPONSIBILITY FOR PROPER BARRICADING AND ADEQUATE PROTECTION OF ALL OPEN TRENCHES AND OTHER EXCAVATIONS. OBSTRUCTIONS, SUCH AS MATERIAL PILES AND EQUIPMENT, SHALL BE PROVIDED WITH WARNING SIGNS, BARRICADES AND LIGHTS. ALL BARRICADES AND OBSTRUCTIONS SHALL BE ILLUMINATED BY MEANS OF WARNING LIGHTS FROM SUNSET TO SUNRISE OR WHEN ANY OTHER LOW LIGHT CONDITIONS EXIST. MATERIAL STORED UPON OR ALONGSIDE ROADWAY SHALL BE SO PLACED AND THE WORK SHALL AT ALL TIMES BE SO CONSTRUCTED AS TO CAUSE THE MINIMUM OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC AND TO LOCAL RESIDENTS.

CONTRACTOR SHALL MAINTAIN AT LEAST ONE (1) ACCESS TO ALL RESIDENCES DURING NORMAL WORKING HOURS BY STAGING WORK ACCORDINGLY. COORDINATE CONSTRUCTION AT PRIVATE PROPERTY WITH THE ENGINEER.

ROAD CLOSED TO THRU TRAFFIC THROUGHOUT CONSTRUCTION, INSTALLING, MAINTAINING AND REMOVING DETOUR ROUTE, INCLUDING SIGNAGE, IS THE RESPONSIBILITY OF CONTRACTOR.

ORDER OF OPERATION

THE CONTRACTOR SHALL CONSTRUCT PROJECT IN THE SPECIFIED ORDER.
1.) COUNTY TO PULL UP EXISTING GRANULAR SHOULDERS PRIOR TO CONSTRUCTION
2.) RUBBLIZE
3.) PAVEMENT REMOVAL AND SUBBASE PLACEMENT
4.) CHOKE STONE
5.) HMA PLACEMENT
6.) GRANULAR SHOULDERS
- CHOKE STONE SHALL BE PLACED WITHIN THREE DAYS OF PATCHING.
- RECLAIMED ASPHALT PAVEMENT (RAP) SHALL BE ALLOWED IN THE BASE HMA LAYER. IT WILL NOT BE ALLOWED IN THE SURFACE HMA LAYER.
- RUBBLIZE, CHOKE, AND BASE COMPLETED ONE LANE AT A TIME & COMPLETED PRIOR TO MOVING TO ANOTHER LANE.
- SHOULDER WITHIN ONE WEEK OF COMPLETION OF SURFACE COURSE

DRAWING APPROVAL

ALL WORKING DRAWINGS WHICH REQUIRE REVIEW BY THE CONTRACTING AUTHORITY SHALL BE REVIEWED BY JEO CONSULTING GROUP, INC.

<u>AUDUBON COUNTY</u> AUDUBON COUNTY ENGINEER'S OFFICE MITCHEL J. RYDL, PE 2147 HWY 71 AUDUBON, IA 50025 OFFICE : 712-563-4286 MOBILE : 712-304-0040	<u>PROJECT ENGINEER</u> JEO CONSULTING GROUP, INC. CODY F. FORCH, PE 724 SIMON AVENUE CARROLL, IOWA 51401 OFFICE : 712-792-9711 FAX: 712-792-9889
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UTILITY NOTE:

NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A DESIGN REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT. (DATE: 5/22/2019 TICKET NO.: 551903770)

UTILITIES SHOWN ARE FROM MAPS AND INFORMATION PROVIDED BY THE UTILITY PROVIDERS. NO FIELD MARKINGS WERE PROVIDED.

THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE REPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.

SURVEY SYMBOLS

	Interstate Highway Symbol		Cistern
	U.S. Highway Symbol		L.P. Gas Tank (No Footing)
	Iowa Highway Symbol		Underground Storage Tank
	County Road Highway Symbol		Latrine
	Evergreen Tree		Luminaire
	Deciduous Tree		Traffic Signal
	Fruit Tree		Traffic Signal with Luminaire
	Shrub (Bushes)		Telephone Pedestal
	Timber		Television Pedestal
	Hedge		Telephone Pole
	Stump		Telephone Pole (Second Company)
	Swamp		Telephone Pole (Third Company)
	Rock Outcrop		Telephone Pole (Fourth Company)
	Broken Concrete		Telephone Pole (Fifth Company)
	Revetment (Rip Rap)		Power Pole
	Cemetery		Power Pole (Second Company)
	Grave		Power Pole (Third Company)
	Cave		Power Pole (Fourth Company)
	Sink Hole		Power Pole (Fifth Company)
	Board Fence		Electrical Highline Tower
	Chain Link or Security Fence		Telephone Riser Pole
	Wire Fence		Power Riser Pole
	Terrace		Telegraph Pole
	Earth Dam or Dike (Existing)		Satellite TV Dish
	Earth Dam or Dike (Proposed)		Water Hook Up
	Tile Outlet		Radio Tower
	Edge of Water		Tower Anchor
	Existing Drainage		Guardrail (Beam or Cable)
	Proposed Drainage		Guard Post (one or two)
	Right of Way Rail or Lot Corner		Guard Post (over two)
	Concrete Monument		Filler Pipe
	Well		Gas Valve
	Windmill		Water Valve
	Beehive Intake		Speed Limit Sign
	Existing Intake		Mile Marker Post
	Proposed Intake		Sign
	Existing Utility Access (Manhole)		Traffic Signal Control Box
	Proposed Utility Access (Manhole)		Rail Road Signal Control Box
	Fire Hydrant		Telephone Switch Box
	Water Hydrant (Rural)		Electric Box

UTILITY LEGEND

GUTHRIE COUNTY RURAL ELECTRIC
Contact Name : Elden Wolfe
Contact Phone: 6417472206
Contact Email: gurecrew@netins.net

HEARTLAND DIVIDE WIND PRJ LLC
Contact Name : Don Schroeder
Contact Phone: 7128304759
Contact Email: dts0110@nee.com














AUREON NETWORK SERVICES
Contact Name : Jeff Klocko
Contact Phone: 5158300445
Contact Email: jeff.klocko@aureon.com

MCI
Contact Name : Dean Boyers
Contact Phone: 4698864238
Contact Email: dean.boyers@verizon.com







WINDSTREAM COMMUNICATIONS
Contact Name : LOCATE DESK
Contact Phone: 8002891901
Contact Email: LOCATE.DESK@WINDSTREAM.COM

WEST CENTRAL IOWA RURAL WATER
Contact Name : Dean Lorenzen
Contact Phone: 7126552534
Contact Email: wcirwa@mmcts.com

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.
Green	(2)	 Existing Topographic Features and Labels
Blue	(1)	 Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	 Existing Utilities
SHADING		Design Color No.
Yellow	(4)	 Highlight for Critical Notes or Features
Red	(3)	 Delineates Restricted Areas
Lavender	(9)	 Temporary Pavement Shading
Gray, Light	(48)	 Proposed Pavement Shading
Gray, Med	(80)	 Proposed Granular Shading
Gray, Dark	(112)	 Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	 Grading Shading
Tan	(8)	 Proposed Sidewalk Shading
Blue, Light	(230)	 Proposed Sidewalk Landing Shading
Pink	(11)	 Proposed Sidewalk Ramp Shading

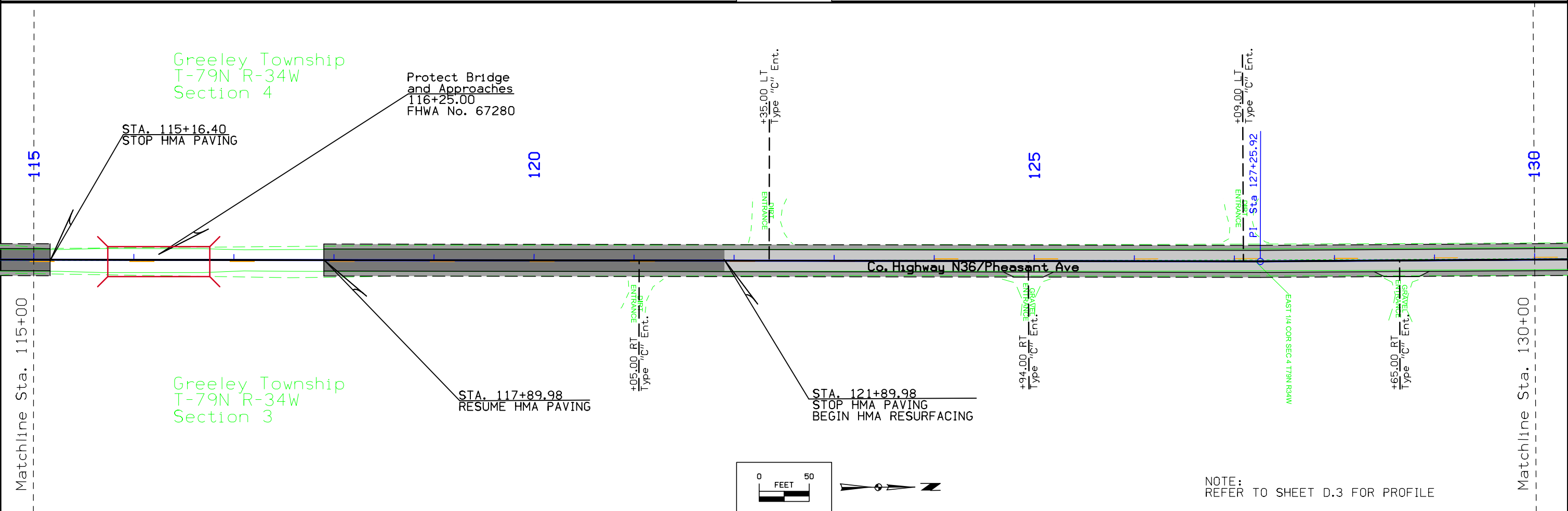
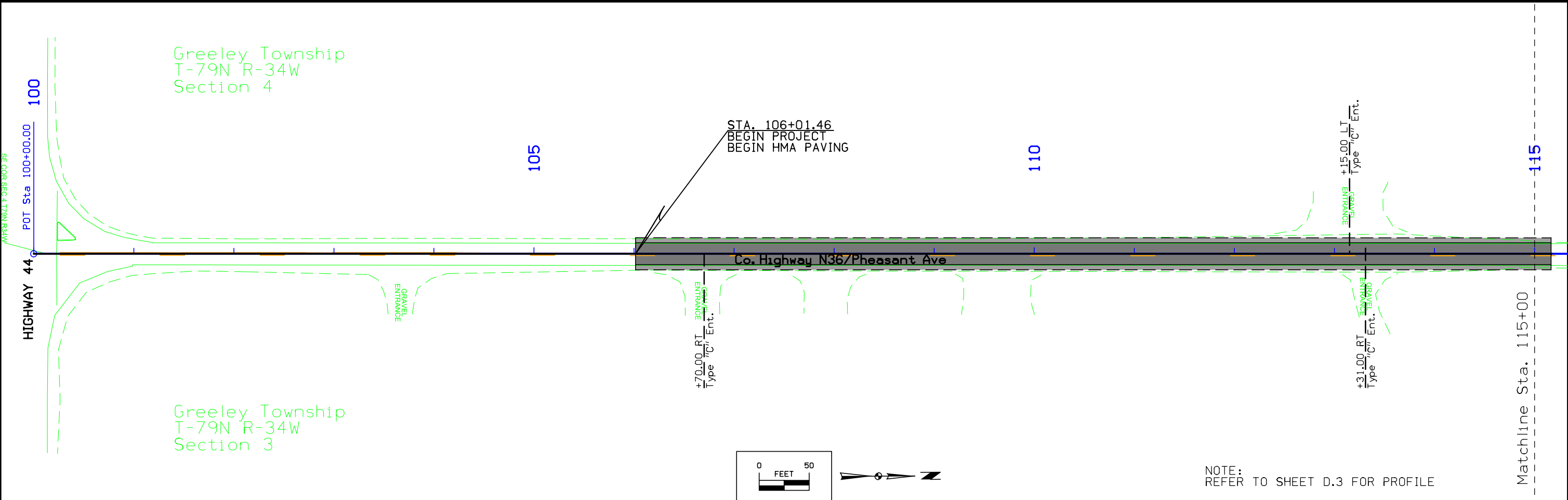
PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.
Green	(2)  Existing Ground Line Profile
Blue	(1)  Proposed Profile and Annotation
Magenta	(5)  Existing Utilities
Blue, Light	(230)  Proposed Ditch Grades, Left
Black	(0)  Proposed Ditch Grades, Median
Rust	(14)  Proposed Ditch Grades, Right

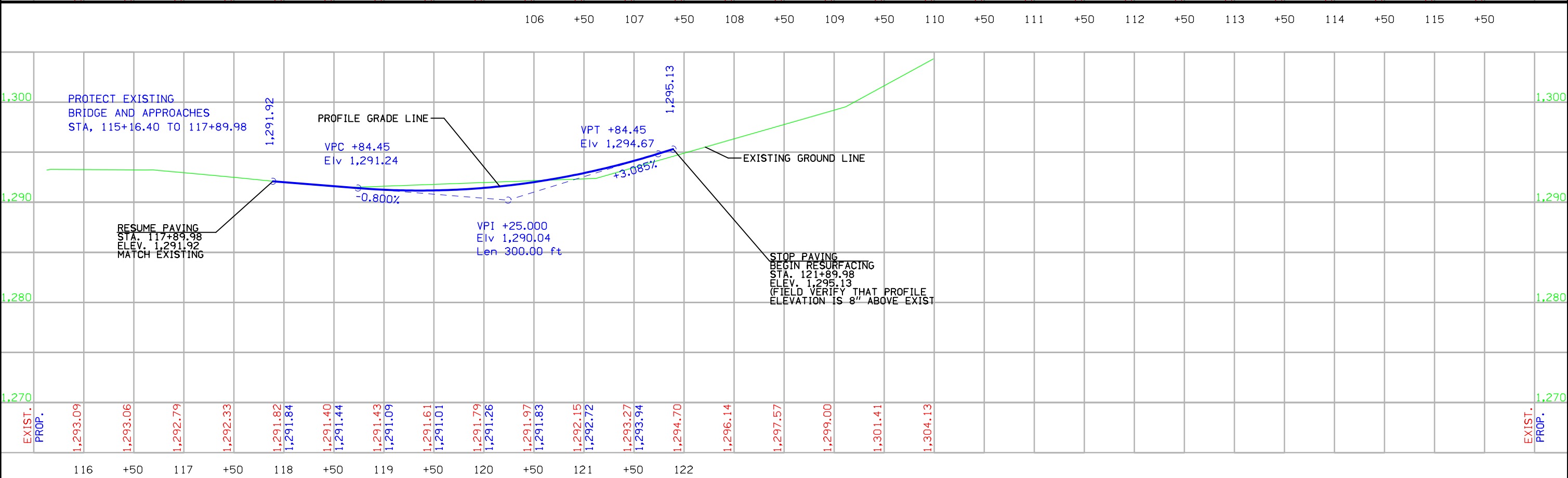
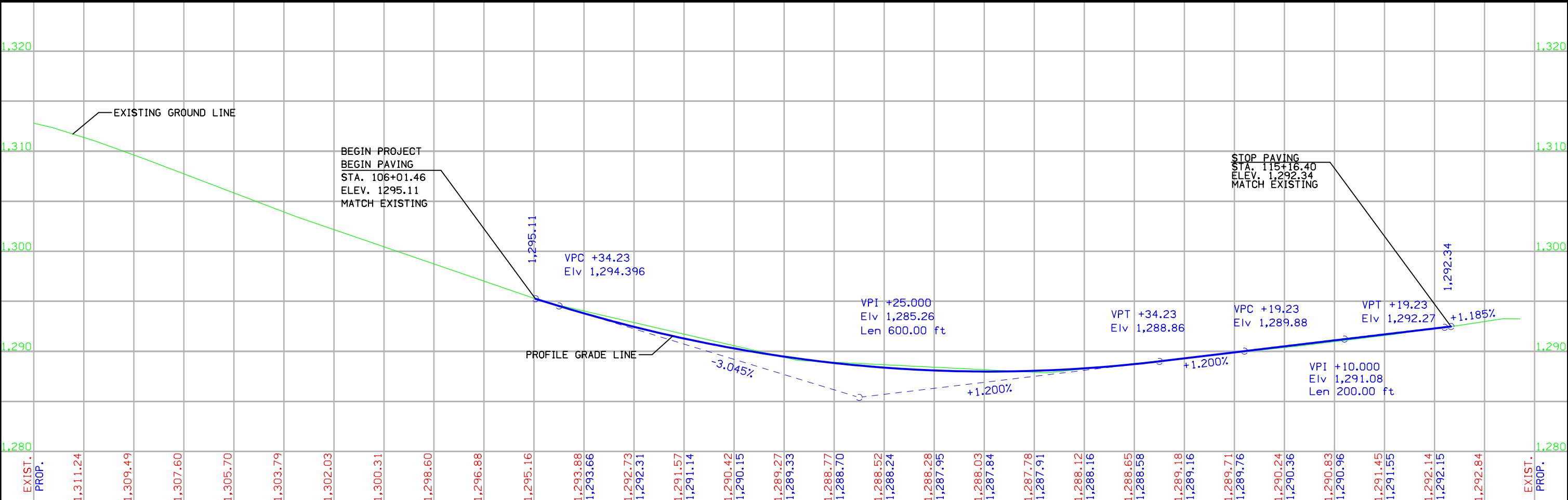
	Reference Point		Survey Line
	Station		Section Corner
	Ground Line Intercept		Saw Cut
	Guardrail		Trench Drain
	High Tension Cable Guardrail		Sheet Pile
	Pavement Removal		Clearing & Grubbing Area

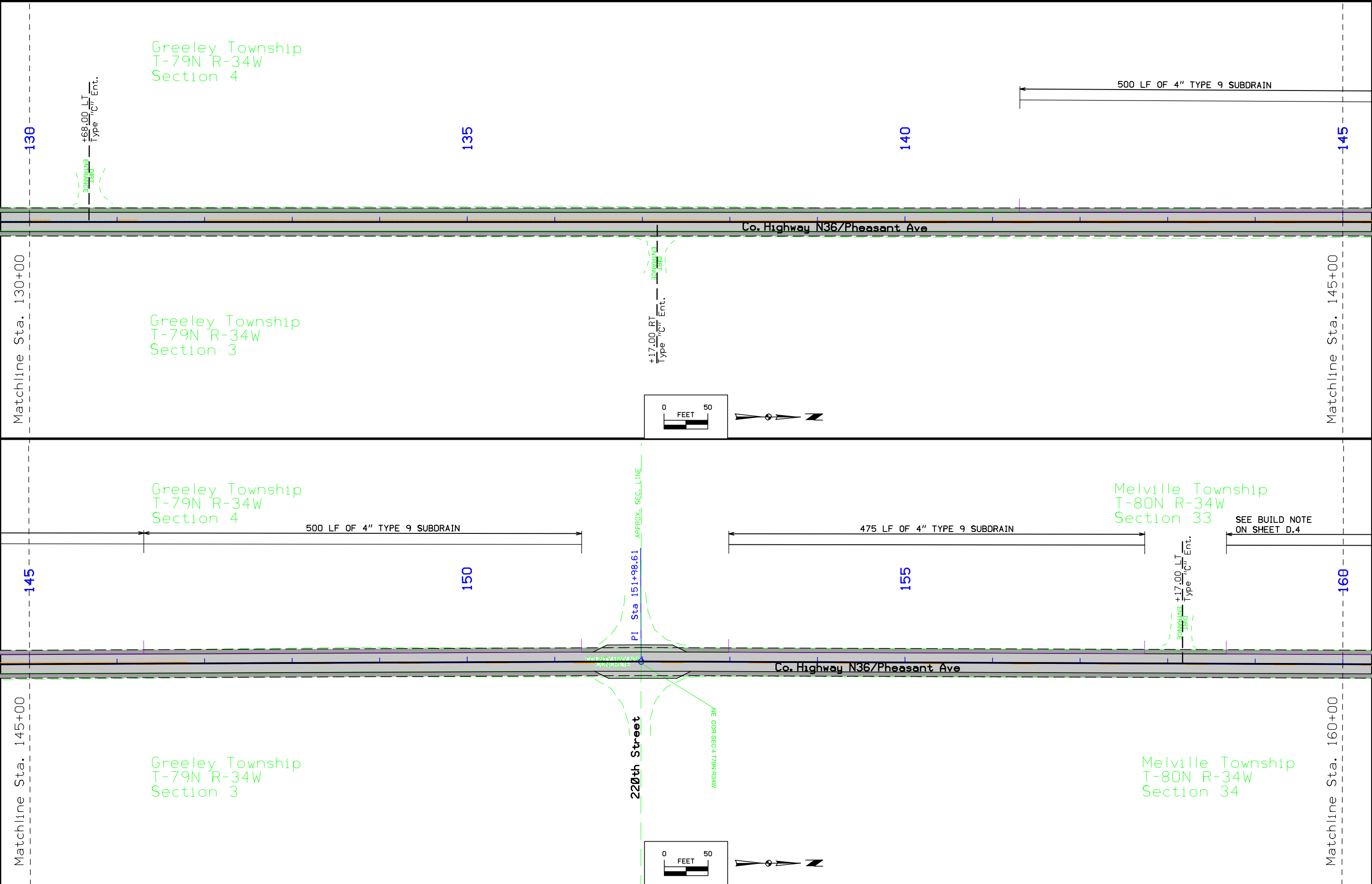
PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

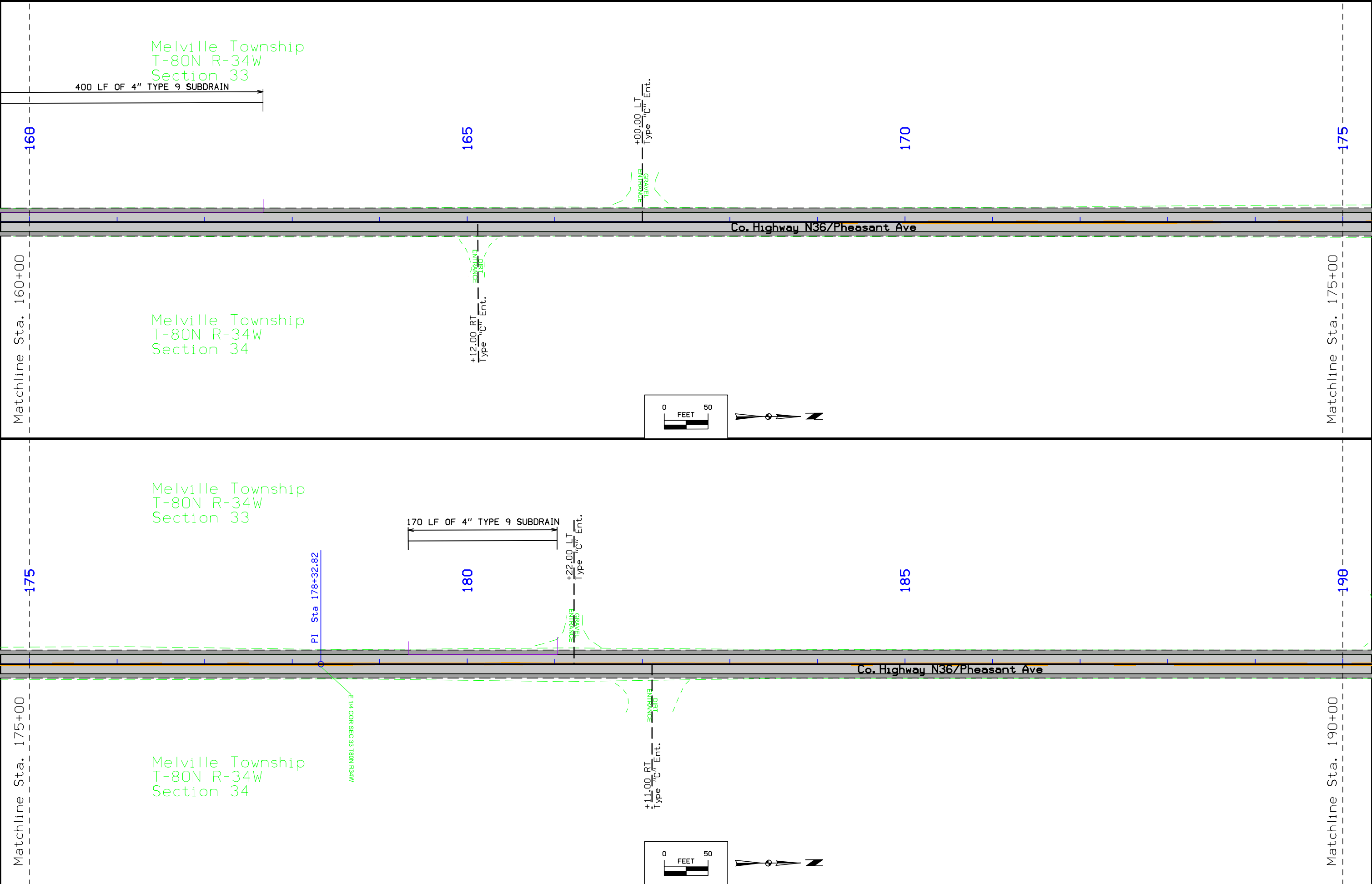


FILE NO.	ENGLISH	DESIGN TEAM	JEO Consulting Group	AUDUBON COUNTY	PROJECT NUMBER	FM-C005(72)--55-05	SHEET NUMBER	D.2
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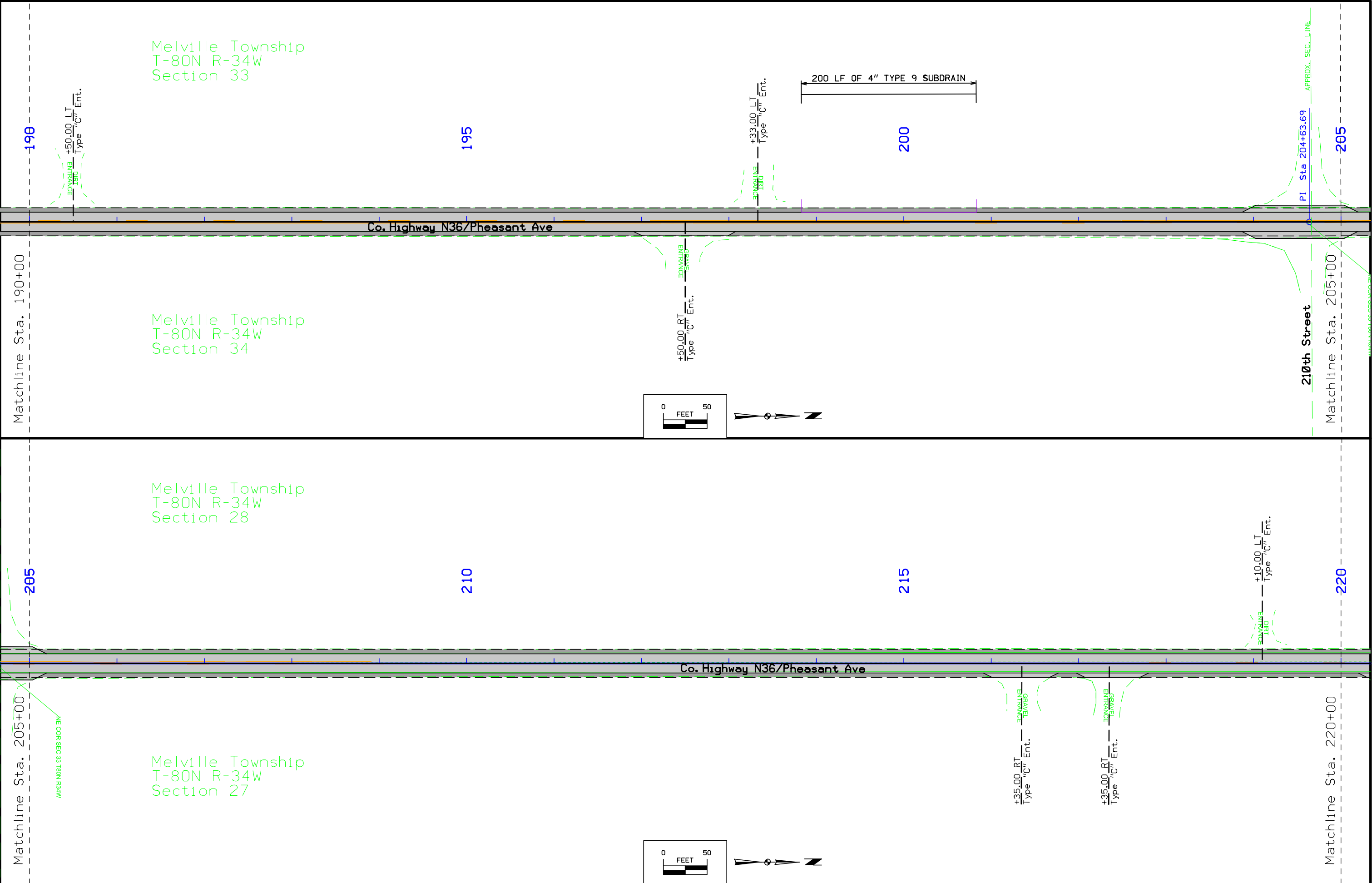




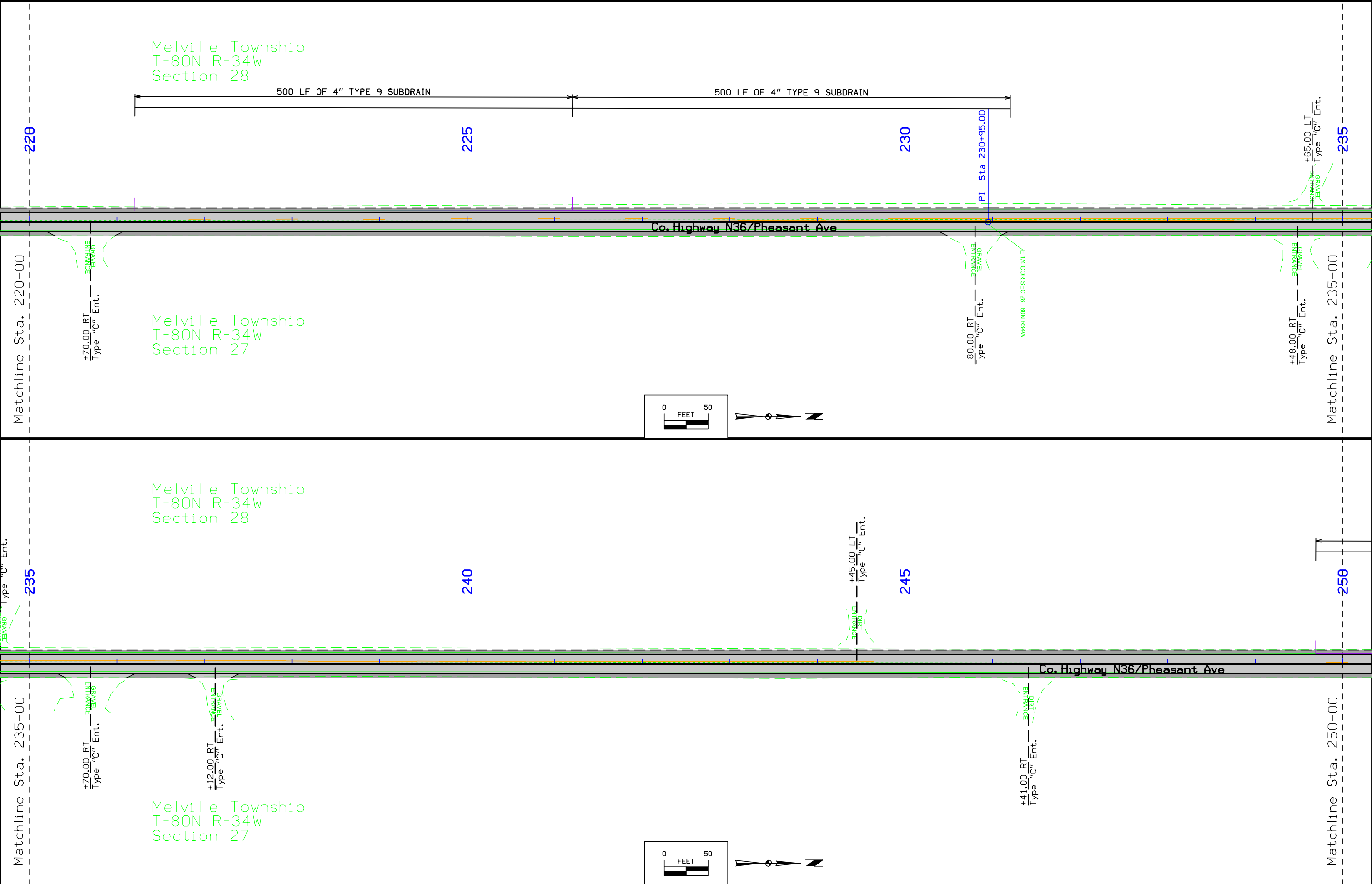
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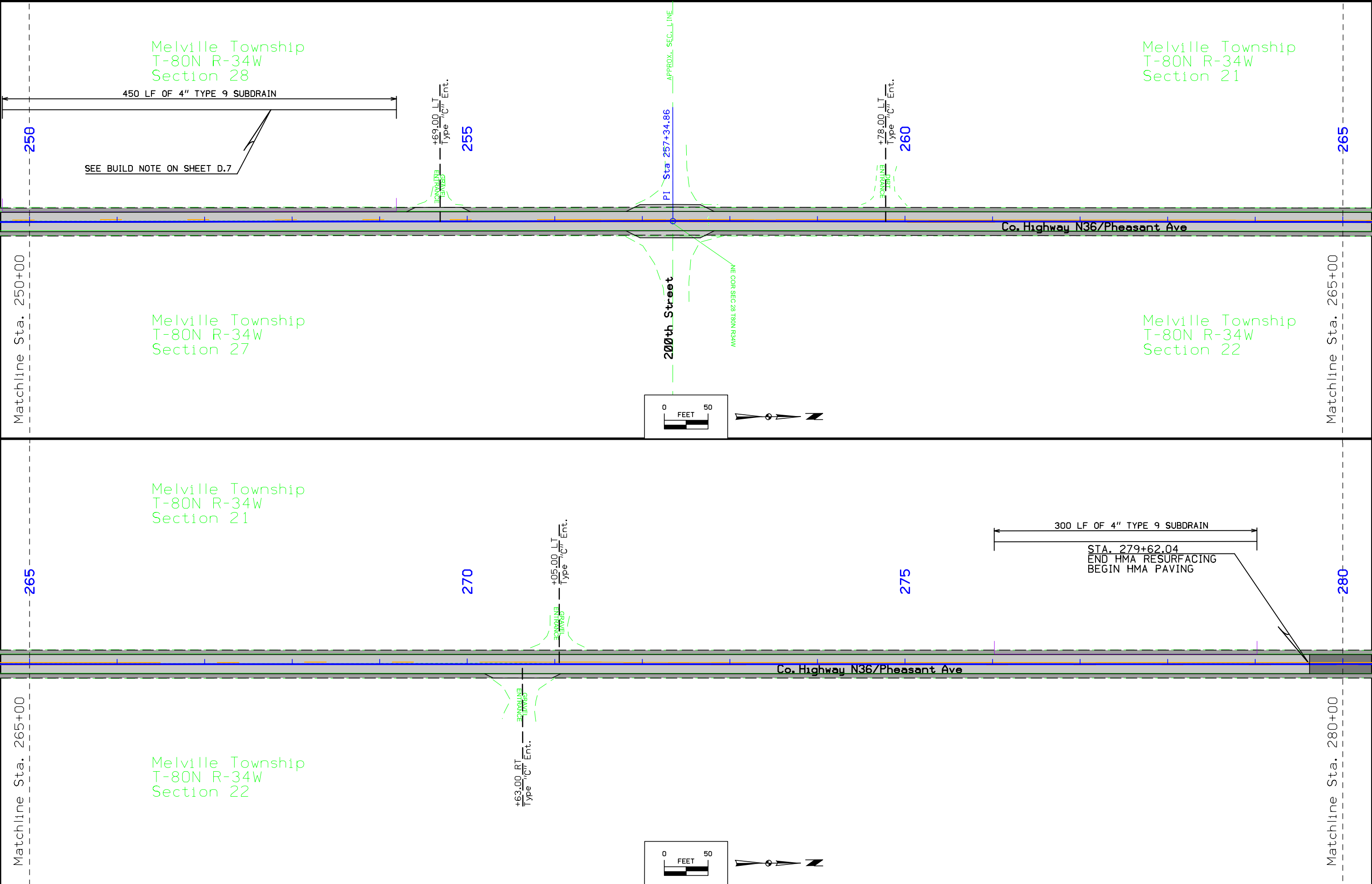


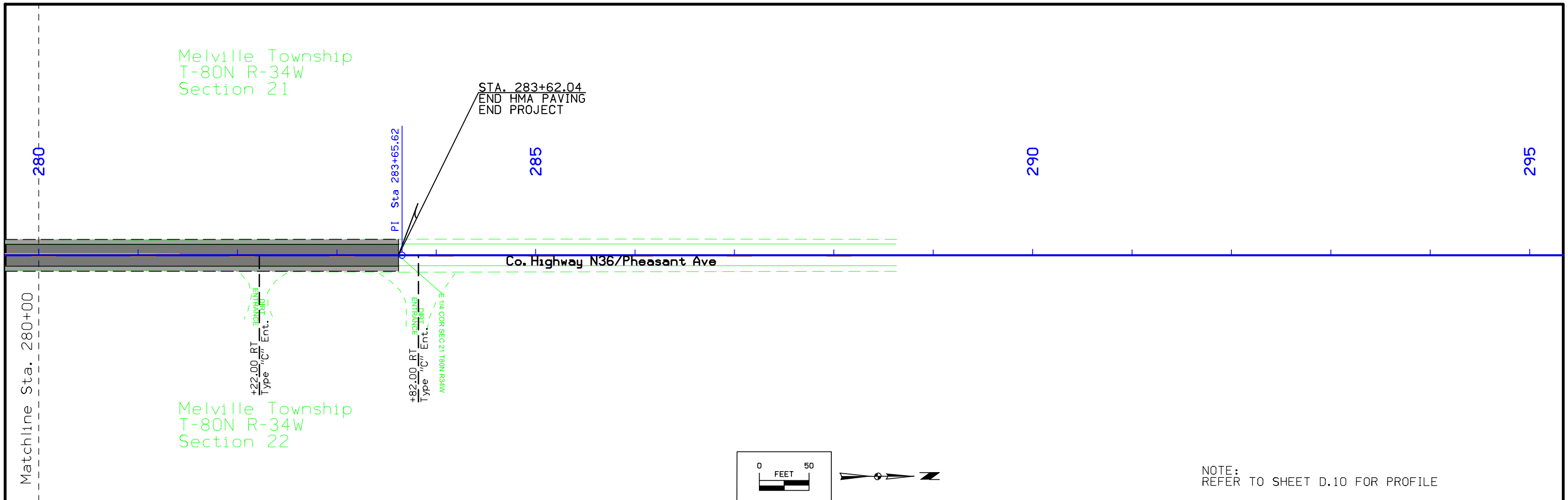
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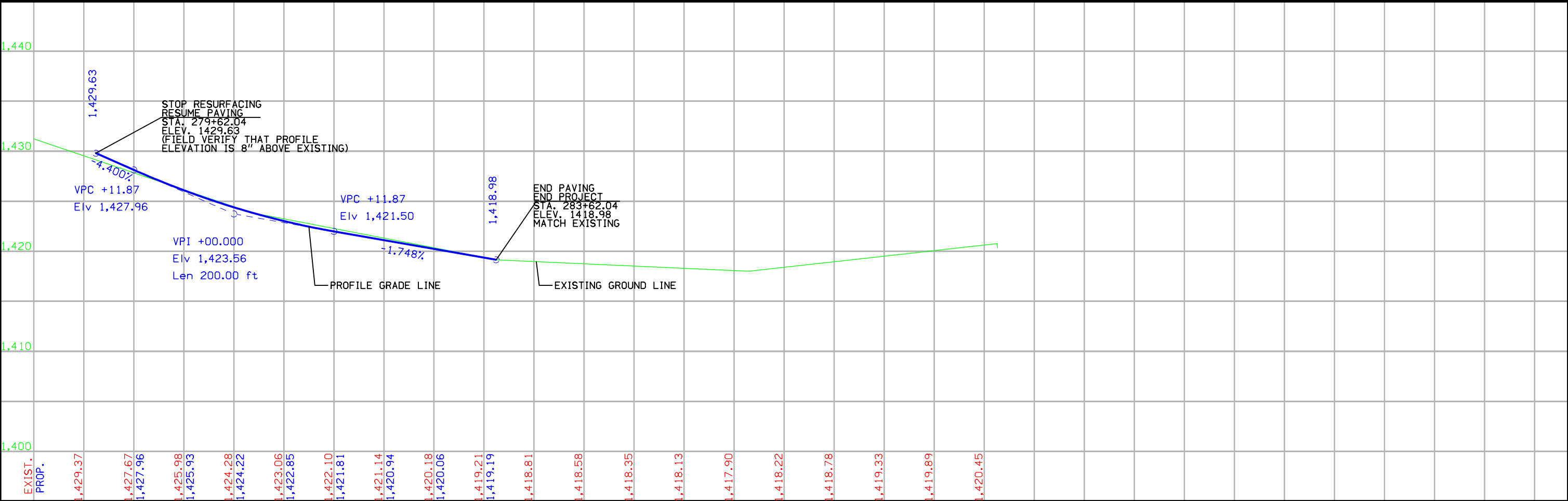


FILE NO.	ENGLISH	DESIGN TEAM	JEO Consulting Group	AUDUBON COUNTY	PROJECT NUMBER	FM-C005(72)--55-05	SHEET NUMBER	D.6
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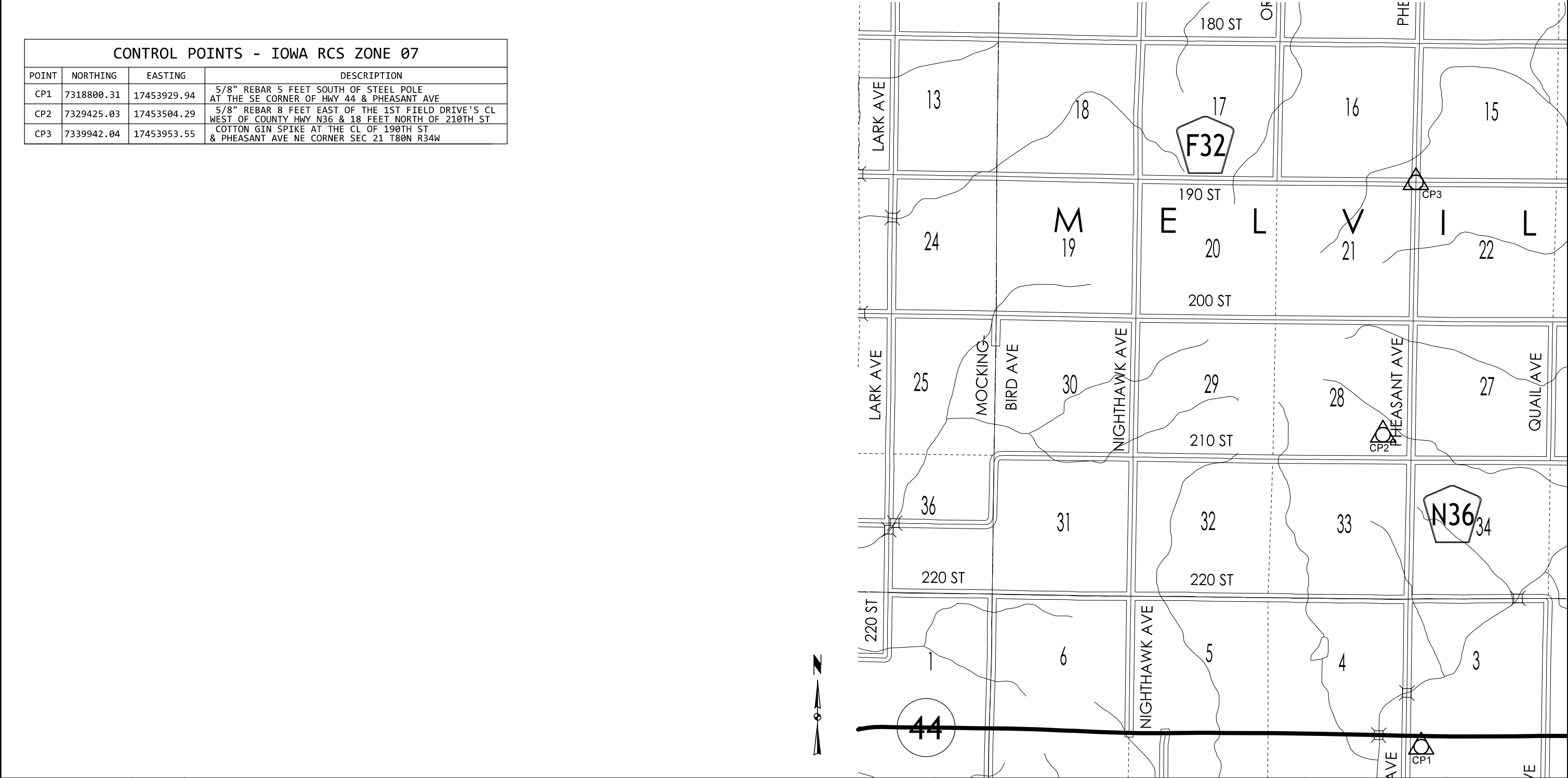




+50	280	+50	281	+50	282	+50	283	+50
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ALIGNMENT COORDINATES																			101-16 10-20-09
Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
Point 1	Co. Hwy N36	100+00.00	7318949.39	17453859.74															
Point 2	Co. Hwy N36	127+25.92	7321675.25	17453877.12															
Point 3	Co. Hwy N36	151+98.61	7324147.94	17453873.95															
Point 4	Co. Hwy N36	178+32.82	7326782.09	17453891.81															
Point 5	Co. Hwy N36	204+63.69	7329412.90	17453909.70															
Point 6	Co. Hwy N36	230+95.00	7332044.20	17453916.94															
Point 7	Co. Hwy N36	257+34.86	7334684.05	17453924.29															
Point 8	Co. Hwy N36	283+65.62	7337314.77	17453938.96															
Point 9	Co. Hwy N36	309+97.49	7339946.59	17453953.66															

CONTROL POINTS - IOWA RCS ZONE 07			
POINT	NORTHING	EASTING	DESCRIPTION
CP1	7318800.31	17453929.94	5/8" REBAR 5 FEET SOUTH OF STEEL POLE AT THE SE CORNER OF HWY 44 & PHEASANT AVE
CP2	7329425.03	17453504.29	5/8" REBAR 8 FEET EAST OF THE 1ST FIELD DRIVE'S CL WEST OF COUNTY HWY N36 & 18 FEET NORTH OF 210TH ST
CP3	7339942.04	17453953.55	COTTON GIN SPIKE AT THE CL OF 190TH ST & PHEASANT AVE NE CORNER SEC 21 T80N R34W



TRAFFIC CONTROL PLAN

All traffic control devices shall be finished, erected, maintained and removed by the Contractor.

The proposed signing may be modified to meet field conditions, prevent obstructions and to accommodate construction scheduling upon approval by Engineer.

The Contractor shall erect all warning signs on steel or wooden posts. Portable mountings for warning signs may be used for temporary installations of less than three (3) days.

The location for storage of materials and equipment by the Contractor during working and nonworking hours shall be as approved by the Engineer and the Contractor shall provide a written agreement with the property owner, if applicable.

The bid item "Traffic Control" shall include the cost of all traffic control measures by the Contractor except for those which are separate bid items or are incidental to other bid items.

The traffic control shall be checked by the Contractor a minimum of two times each day for the duration of the project and deficient conditions shall be corrected immediately. Contractor shall maintain a traffic control daily diary per the Iowa DOT Construction Manual.

Audubon County Highway N36 will be closed to thru traffic from Audubon County Highway F32 to Audubon County Highway F16 for the entirety of the project. Through traffic will be detoured utilizing Highways 141 and 71 as shown on Sheet J.2.

Contractor shall be responsible to establish and maintain detour.

Contractor shall maintain access to properties at all times.

There are no existing pedestrian facilities within this project area.

A Work Within State Highway Right-of-Way permit will need to be obtained before any detour signs are installed on Highways 141 and 71. Contact Bobby Dahl at 641-782-4310

Contact Jim Bane - DOT Maintenance Manager - before working on the Right-of-Way at 712-243-7623.

All traffic control/signing shall be fabricated & installed per Manual on Uniform Traffic Control Devices for Streets and Highways, as adopted by the Department per 761 of the Iowa Administrative Code (IAC), Chapter 130

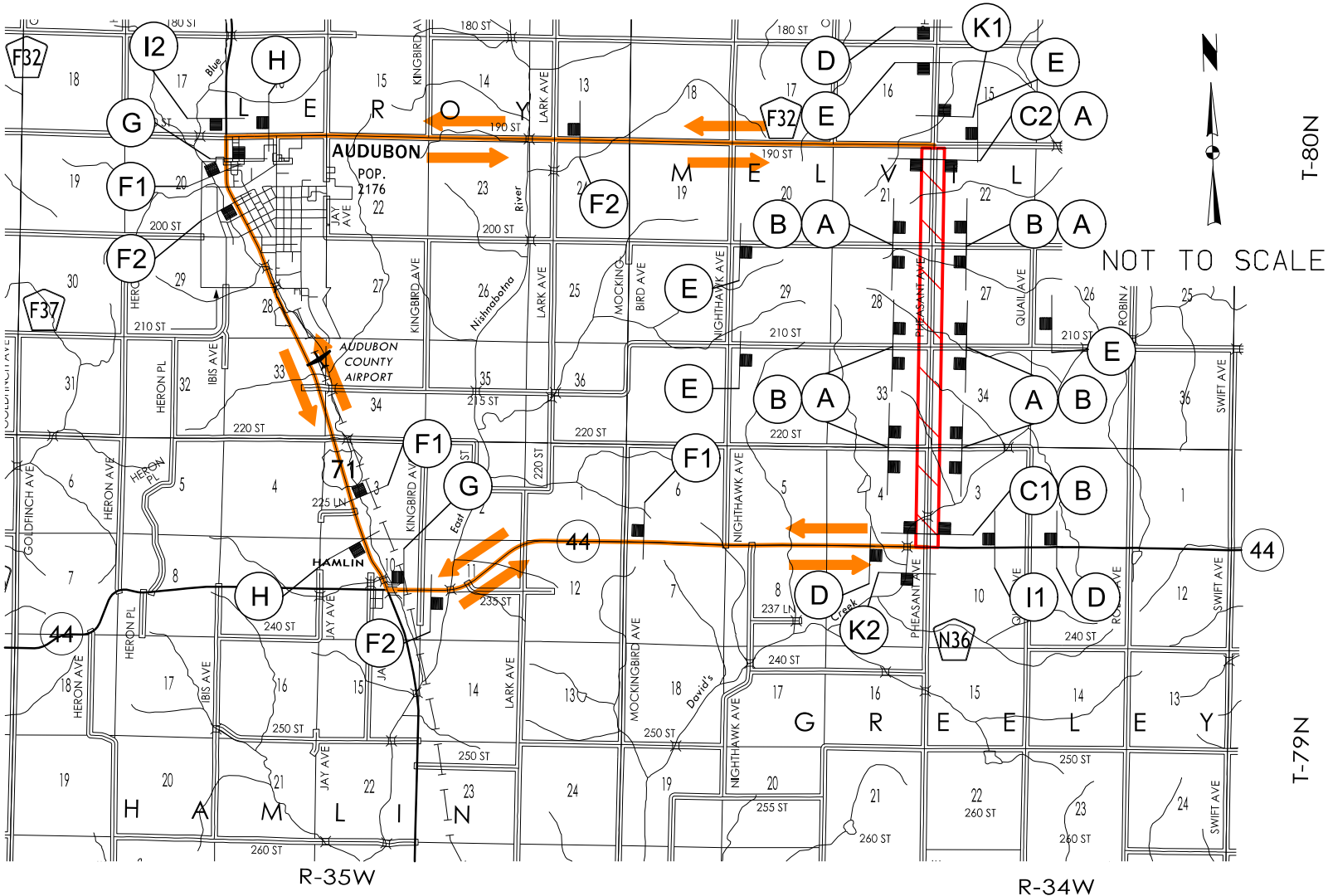
Remove or cover any conflicting signs.

STAGING NOTES

County Highway N36 shall be closed to through traffic for all construction operations.

The Contractor shall stage construction so that all residents located on County Highway N36 will have access to their property at all times. Residents shall have a minimum of 48 hours notice before closure of County Highway N36.

Contractor shall submit a staging plan at the time of preconstruction meeting to be approved by the Engineer.



LEGEND

- TRAFFIC SIGN
- TRAFFIC SIGN ID
- PROJECT AREA
- DETOUR ROUTE

