A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: March 21, 2017
Date of Addendum: March 8, 2017

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
102	07-1185-635	PCC PAVEMENT - GRADE AND NEW	BLACK HAWK	STP-U-1185(635)--70-07	21MAR102A02

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0080 2115-0100000 MODIFIED SUBBASE:
From: 15,686.900 CY
To: 15,832.100 CY

Change Proposal Line No. 0140 2301-1033090 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.:
From: 41,525.500 SY
To: 38,414.900 SY

Add Proposal Line No. 0145 2301-4875006 MEDIAN, P.C. CONCRETE, 6 IN.; 352.900 SY

Change Proposal Line No. 0690 2511-0302600 RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.:
From: 8,205.300 SY
To: 9,602.700 SY

Change Proposal Line No. 0730 2515-2475007 DRIVEWAY, P.C. CONCRETE, 7 IN.:
From: 1,146.000 SY
To: 1,421.300 SY

If the above changes are not made, they will be made as shown here.

Make the following change to the PLAN:

Add to the ESTIMATE REFERENCE INFORMATION: 2301-103309 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, SY CLASS C, CLASS 3 DURABILITY, 9 IN.
Approximately 122.2 SY Temporary Pavement shall be incidental to this item.

Add to the ESTIMATE REFERENCE INFORMATION: 2301-4875006 Quantity is for 6" PCC Median Pavement at approaches to the roundabout at Greenhill Road and University Avenue. Modified subbase shall be used under median pavement, and is included in the quantity for Modified Subbase.

Replace Sheets B.1, C.11, C.15, C.19, L.6 and L.9 with the attached B.1, C.11, C.15, C.19, L.6 and L.9

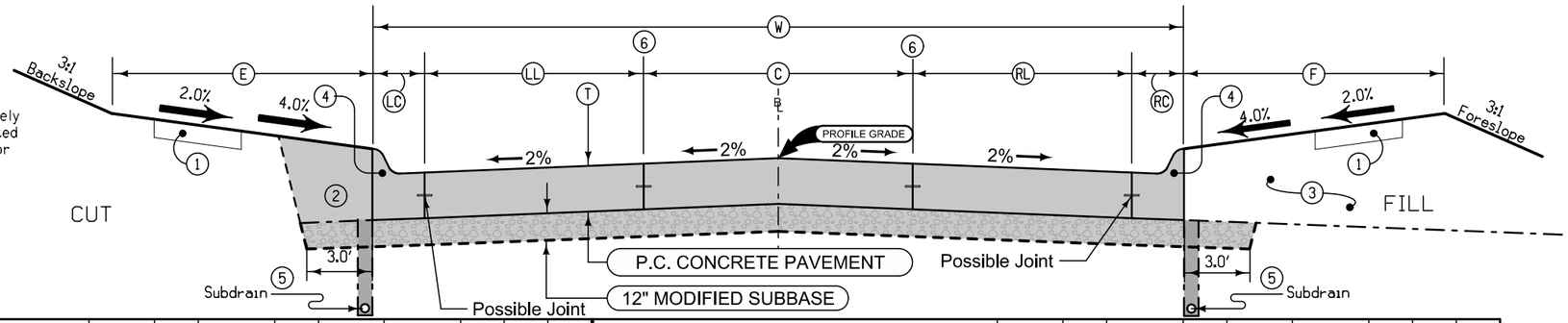
3222
MODIFIED

Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to other drawings for details of shoulder design and construction

Earth Shoulder fill requires approximately 11.8 cubic yards of excavation, including 30 % for shrinkage, per shoulder per station.



1. Refer to other drawings for details of shoulder and possible sidewalk construction
2. Excavate and backfill 3.0'
3. Backfill
4. 6" Standard or Sloped Curb, see Detail Drawing 6127 and 6128 (Use Sloped Curb South of University Ave.)
5. Refer to Standard Road Plan DR-303
6. Horizontal Alignment Control Point See Plan and Profile Sheets

Location			LC	LL	C	RL	RC	W	T	E	F
Road Identification	Station to Station		Feet	Feet	Feet	Feet	Feet	Feet	Inches	Feet	Feet
GREENHILL ROAD	78+36.14	80+10.20	2.5	12.0	12.0	12.0	2.5	41.0	9	22.0	17.0
GREENHILL ROAD	80+10.20	81+85.20	2.5-3.5	12.0	12.0-0.0	12.0	2.5-3.5	41.0-31.0	9	22.0	17.0
GREENHILL ROAD	121+10.00	121+43.55	3.3-3.5	12.0	8.0-7.7	12.0	3.5	38.8-38.7	9	22.0	17.0
GREENHILL ROAD	121+43.55	124+33.21	3.5	12.0	7.7-0.0	12.0	3.5	38.7-31.0	9	22.0	17.0

Location			LC	LL	C	RL	RC	W	T	E	F
Road Identification	Station to Station		Feet	Feet	Feet	Feet	Feet	Feet	Inches	Feet	Feet
GREENHILL ROAD	126+95.00	129+95.00	3.5-2.5	12.0	0.0-12.0	12.0	3.5-2.5	31.0-41.0	9	22.0	17.0
GREENHILL ROAD	129+95.00	133+30.00	2.5	12.0	12.0	12.0	2.5	41.0	9	22.0	17.0
GREENHILL ROAD	133+30.00	136+30.00	2.5-3.5	12.0	12.0-0.0	12.0	2.5-3.5	41.0-31.0	9	22.0	17.0

TYPICAL CROSS SECTION
2 LANE WITH CENTER TURN LANE WITH 6" CURB

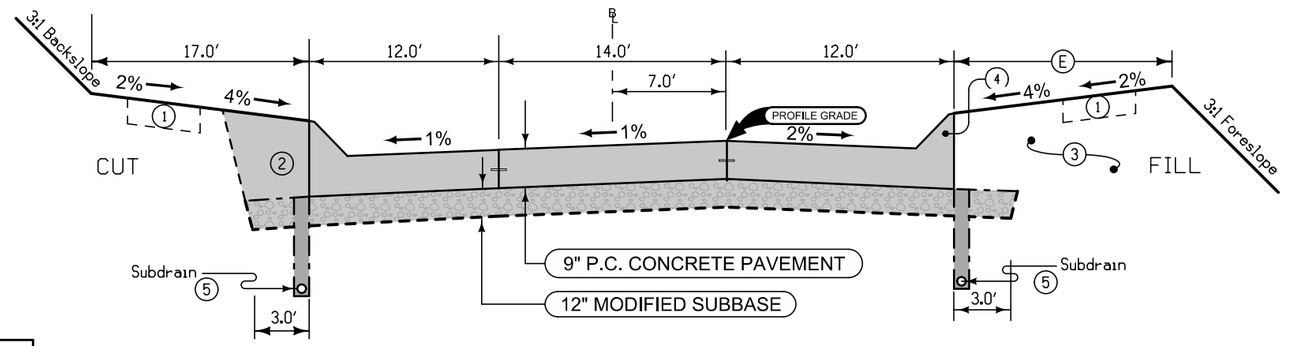
X-1
SPECIAL

Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to other drawings for details of shoulder design and construction

Earth Shoulder fill requires approximately 11.8 cubic yards of excavation, including 30 % for shrinkage, per shoulder per station.

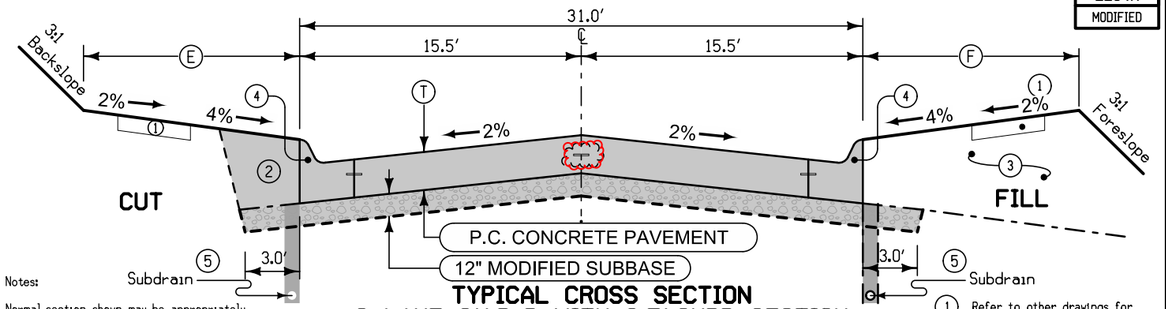


1. Refer to other drawings for details of shoulder and possible sidewalk construction
2. Excavate and backfill 3.0'
3. Backfill
4. 6" Standard or Sloped Curb, see Detail Drawing 6127 and 6128
5. Refer to Standard Road Plan DR-303

LOCATION			E
ROAD IDENTIFICATION	STATION TO STATION		Feet
UNIVERSITY AVENUE	3192+00.00	3199+50.00	7
UNIVERSITY AVENUE	3199+50.00	3207+00.00	12

TYPICAL CROSS SECTION
3-LANE URBAN WITH CENTER TURN-LANE

2209A
MODIFIED



Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to other drawings for details of shoulder design and construction

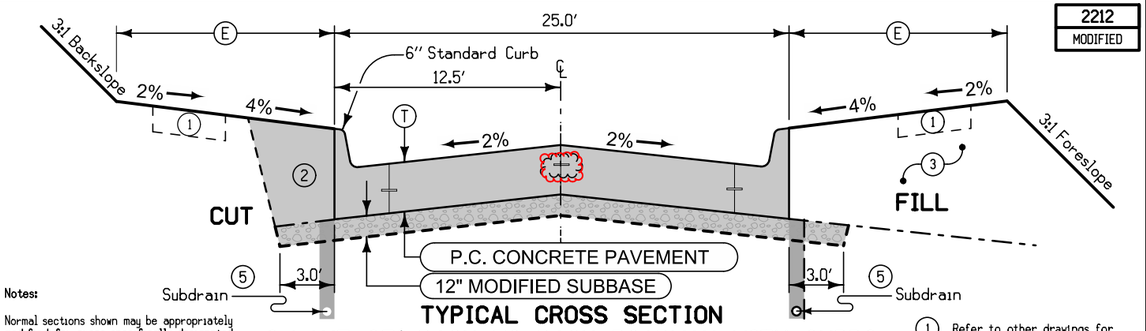
Earth Shoulder fill requires approximately 11.8 cubic yards of excavation, including 30 % for shrinkage, per shoulder per station.

LOCATION			T	E	F
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet	Feet
GREENHILL ROAD	81+85.20	116+00.00	9	22	17
GREENHILL ROAD	124+33.21	126+95.00	9	22	17
GREENHILL ROAD	136+30.00	143+69.44	9	22	17
UNIVERSITY AVENUE	3182+50.00	3186+00.00	9	12	17

1. Refer to other drawings for details of shoulder and possible sidewalk construction
2. Excavate and backfill 3.0'
3. Backfill
4. 6" Standard or Sloped Curb Use Sloped Curb S. of University
5. Refer to Standard Road Plan DR-303

TYPICAL CROSS SECTION
2 LANE 31' B-B WITH 3.5' CURB SECTION

2212
MODIFIED



Notes:

Normal sections shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves

Refer to other drawings for details of shoulder design and construction.

Earth Shoulder fill requires approximately 11.8 cubic yards of excavation, including 30 % for shrinkage, per shoulder per station.

LOCATION			T	E
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet
W. 31ST STREET	2091+15.50	2094+54.24	7	17.5

1. Refer to other drawings for details of shoulder and possible sidewalk construction
2. Excavate and backfill 3.0'
3. Backfill
4. 6" Standard Curb
5. Refer to Standard Road Plan DR-303

TYPICAL CROSS SECTION
2-LANE 25' BACK TO BACK ROADWAY WITH CURBS

FILE NO.	ENGLISH	DESIGN TEAM AECOM\WIELE\PAAR	CITY OF CEDAR FALLS	PROJECT NUMBER STP-U-1185(635)--70-07	SHEET NUMBER B.1

12:11:42 PM 3/7/2017 paark P:\60440103\900-CAD-GIS\02-SHEETS\GreenhillRd-B-Shts.dsn

Changed by Addenda

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
(1) Refer to MI-210
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
0

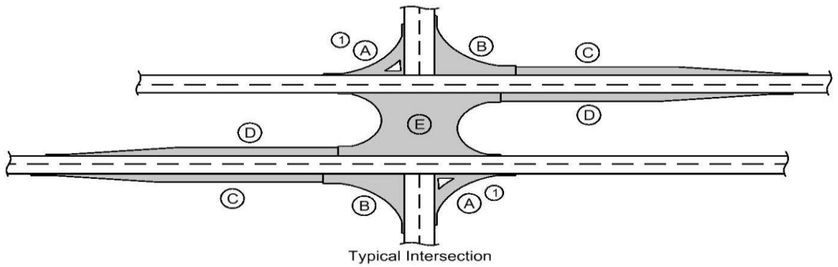
Location		Type	Length of Opening (1)			W	(1)(2) PR	(2) SR	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
. 27th Street																		
1063+47.00	R	C				U.A.C												U.A.C
1064+21.00	L	C	2			30.0					U.A.C.						11.100	Cell Tower Access
1066+23.00	L	C	2			34.0											14.300	
1067+04.00	R	C				U.A.C.												U.A.C.
1067+74.00	L	C	2		33.0	23.0											12.300	Cell Tower Access
1073+18.00	R	C				U.A.C.												U.A.C.
1076+00.00	L	C	2		26.0	14.0											12.600	Replace to ROW
1076+79.00	R	C																Close
Greenhill Rd																		
82+18.00	R	C	2		26.0	20.0			2.0	18.0	44.0	30.1	30.1	2		36.7	36.500	Pipe C-1.
91+00.00	R	C	2		26.0	20.0			0.6	24.0	22.0	16.6	17.6	2		36.7	18.600	Pipe C-3.
105+71.00	R	C	2		26.0	20.0										36.7	24.100	Pave to Back of Fut. Sidewalk
105+71.00	L	C	2		50.0	30.0	10.0									422.0	20.700	Pave to Back of Fut. Sidewalk
120+95.80	L	C	2		16.0	10.0										19.9	24.100	Joint Entrance -
131+64.00	R	C	2		26.0	20.0										47.8	9.400	Pave to Back of SUP
131+64.00	L	C	2		26.0	20.0					U.A.C.					47.8	3.100	Pave to Back of SUP
143+99.25	L	C				U.A.C.												Pave to Back of SUP
143+99.25	R	C	2		38.0	24.0										139.9	3.100	U.A.C.
W. 31st St.																		
2091+75.00	R	C	2		26.0	20.0										24.6	41.700	Pave to 10' from BOC.
University Av.																		
3181+22.00	R	C															11.900	
3181+45.00	L	A	2			14.0										29.7		
3181+82.00	L	C															6.000	
3184+19.00	L	C	2		18.0	12.0										15.0	9.500	
3187+00.00	L	C	2		36.0	30.0										75.2		Replace to 27.6' from BOC
3190+35.00	L	A																Close
3191+43.00	R	C																Close
3194+24.00	L	A	2		68.0	31.0										143.1		
3194+24.00	R	C	2			20.0			0.7	18.0	36.0	24.8	23.4	2			24.500	Pipe C-6
3197+18.00	L	C														35.6	12.400	Remove Culvert
3200+84.00	R	A	2		30.0	24.0										57.7		Remove Culvert
3201+87.00	R	A	2		24.0	18.0										27.7		
3203+18.00	R	A	2		26.0	20.0										23.9	2.100	Granular Surfacing to ROW
3203+77.00	R	A	2		36.0	30.0										35.0	3.200	Remove Culvert
3203+80.00	L	A	2		42.0	36.0			1.5	18.0	68.0	34.0	34.0	2		166.7		Remove Culvert/Pipe C-7.
									Total	18.0	148.0			6		1421.3	301.200	
									Total	24.0	22.0			2				

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

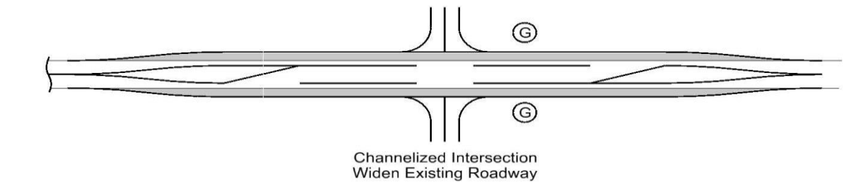
Drainage Area	Location	Type	Size (1)	Kind Of Pipe (2)	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft. Total		Dimensions Lin. Ft. Extensions		Skew Ahead Degrees		Dike Rt. \ Lt.	Dike Location Station	Dike Top Elevation	Dike Type	Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (A+B)	Remarks
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	CY	CY	CY	
	UNI Acc. Road																																					
	986+80.00	DR-601	24	RCP	54				X	X											919.30	919.00			35.0	31.2							51.2			12.0		Pipe C-2
				2000D																																	
	W 31ST Street																																					
	2093+50.00	DR-601	18	RCP	74				X	X											914.70	914.00			41.9	44.3							41.2			10.3		Pipe C-4
				2000D																																	
	University Ave.																																					
	3182+20.00	DR-601	18	RCP	40				X	X											912.70	912.38			17.4	22.6							26.7			5.9		Pipe C-5
				2000D																																	
		Total	18	2000D	114																												119.1					
		Total	24	2000D	54																																	

PCC PAVEMENT

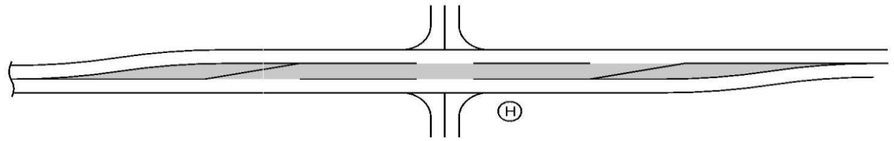


Typical Intersection

Ramp or Loop Taper (2)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.

(2) Refer to PV-410, PV-411, PV-412, and PV-414.

(3) Quantity includes Pavement Header.

Location				Mainline			Area (3)								Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A (1)	B	C	D	E	F (2)	G	H	SY					
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	9 IN	7 IN	TONS	CY	SY	
W. 27th St.		1063+53.20	1080+91.10		1737.9								2741.2		2741.2			1073.5		
W. 27th St.		1068+22.30	1069+79.10	5.0	156.8	87.1									87.1					Modified Subbase Included with North GHRD Paving Area
W. 27th St.		1075+90.00	1081+06.30		516.3				688.0						688.0			358.5		
UNI Access Road		986+83.50	987+24.50	24.0	41.0	109.3	38.8	39.6							187.7			65.5		
W. 31st St.		2091+15.50	2094+54.20	25.0	338.7	940.8	43.6	44.0								1028.4		407.2		
Univesity Avenue		3181+00.00	3186+38.50	24.0	538.5	1436.0							0.0		1436.0			934.3		West UA Paving Area
Univesity Avenue		3182+30.00	3186+38.50		408.5				151.6	155.0					306.6					Modified Subbase Included with West UA Paving Area
Univesity Avenue		3186+38.50	3187+89.93		151.4	536.3									536.3					Modified Subbase Included with West UA Paving Area
Univesity Avenue		3189+22.55	3192+00.00		277.5	1065.6									1065.6					Modified Subbase Included with East UA Paving Area
Univesity Avenue		3192+00.00	3207+00.00	38.0	1500.0	6333.3									6333.3			2885.3		East UA Paving Area
Greenhill Rd.		78+41.30	96+30.00	31.0	1788.7	6161.1									6161.1			2742.1		North GHRD Paving Area
Greenhill Rd.		78+41.30	81+85.20		343.9		105.2	184.9	111.6	83.1					484.8					Modified Subbase Included with North GHRD Paving Area
Greenhill Rd.		98+40.00	116+12.10	31.0	1772.1	6103.9									6103.9			2818.6		Central GHRD Paving Area
Greenhill Rd.		116+12.10	118+04.00		191.9		710.4								710.4					Modified Subbase Included with Central GHRD Paving Area
Greenhill Rd.		119+38.80	120+60.00		121.2		276.8	238.7							515.5					Modified Subbase Included with South GHRD Paving Area
Greenhill Rd.		120+60.00	143+69.55	31.0	2309.6	7955.1									7955.1			3785.5		South GHRD Paving Area
Greenhill Rd.		120+60.00	124+23.30		363.3				165.4						165.4					Modified Subbase Included with South GHRD Paving Area
Greenhill Rd.		128+20.00	135+05.00		685.0								566.6		566.6					Modified Subbase Included with South GHRD Paving Area
Greenhill Rd.		143+69.55	145+79.43	15.5	209.9	361.5									361.5					Modified Subbase Included with South GHRD Paving Area
Greenhill Rd.		146+66.00	149+52.30		286.3			34.1	386.2						420.3			171.1		
Roundabout		10+00.00	12+95.30	34.0	295.3	1139.3		449.2							1588.5			590.5		Includes Interior of Roundabout Behind 4" Sloped Curb.

BRIDGE APPROACH SECTION

Refer to the BR Series.

* Not a bid item

Location				Approach Pavement					Standard Road Plans BR Series			Subdrain							Remarks
Bridge Station	End	Skew Ahead Degrees		T Thickness	Pay Length	Non-Reinf. Pavement Area	Single-Reinf. Pavement Area	Double-Reinf. Pavement Area	Approach	Fixed or Movable Abutment	Abutting Pavement	* Perforated Subdrain 4"	* Subdrain Outlet		* Porous Backfill	* Class 'A' Crushed Stone Backfill	* Modified Subbase	* Polymer Grid	
		LEFT	RIGHT	Inches	FT	SY	SY	SY				LF	STA	Side	CY	CY	TON	SY	
97+35.00	N	0	0	10.0	70.0	103.3	68.9	70.3				125.0	96+39.58	LT	4.0	-	275.000	280.0	
97+35.00	S	0	0	10.0	70.0	103.3	68.9	70.3				125.0	98+30.42	LT	4.0	-	275.000	280.0	

110-14
04-16-13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter	Flowable Mortar or CLSM	
			LF	LF	CY	
1069+63.45, 42.2' Rt. - Apron	Storm Sewer	Removal				See Sheet M.4
78+71.7', 24" CMP Culvert	Storm Sewer	Removal	64			See Sheet M.4
85+68.60, 103' Rt. - Apron	Storm Sewer	Removal				See Sheet M.4
85+99.00, 103' Rt. - 24" Storm Pipe	Storm Sewer	Removal	48			See Sheet M.4
86+28, 114.6' Rt. - MH	Storm Sewer	Removal				See Sheet M.4
86+44.20, 158' Rt. - 24" Storm Pipe	Storm Sewer	Removal	80			See Sheet M.4
119+31.2 - 24' RCP Culvert	Storm Sewer	Removal	98			See Sheet M.6
146+89.05, 15.5' Rt. - Curb Intake	Storm Sewer	Removal				See Sheet M.8
149+10.70, 15.5' Rt. - Curb Intake	Storm Sewer	Removal				See Sheet M.8
3182+72.3, -Culvert	Storm Sewer	Removal	44			See Sheet M.11
3186+94, 15' Lt. - Entr. Culvert	Storm Sewer	Removal	46			See Sheet M.11
3190+36, 30' Lt. - 24" Entr. Culvert	Storm Sewer	Removal	68			See Sheet M.11
3191+43, 30' Rt. - Entr. Culvert	Storm Sewer	Removal	20			See Sheet M.11
3194+23, 35' Lt. - 24" Entr. Culvert	Storm Sewer	Removal	68			See Sheet M.11
3197+18, 35' Lt. - 24" Entr. Culvert	Storm Sewer	Removal	40			See Sheet M.12
3200+84, 27' Rt. - 18" Entr. Culvert	Storm Sewer	Removal	48			See Sheet M.12
3203+77, 33' Rt. - 36" Entr. Culvert	Storm Sewer	Removal	48			See Sheet M.12
3203+80, 47' Lt. - 21" Entr. Culvert	Storm Sewer	Removal	68			See Sheet M.12

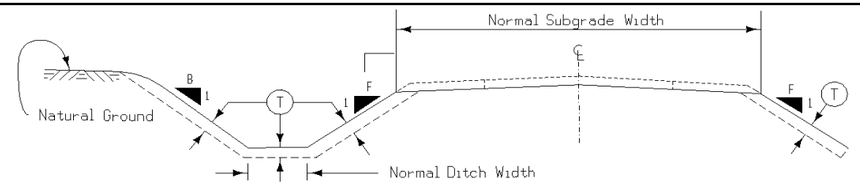
103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks
Class 10	30%	Estimated
Topsoil	40%	Estimated

103-4
04-19-11

TABULATION OF SPREADING TOPSOIL



Perform this work according to Section 2105. Prior to placing topsoil on any cohesive soil, scarify the area to be covered to a minimum depth of 3 inches.

Appropriate adjustments have been made in the template quantities to reflect the placement of topsoil on foreslope, backslope and ditch bottom as detailed hereon.

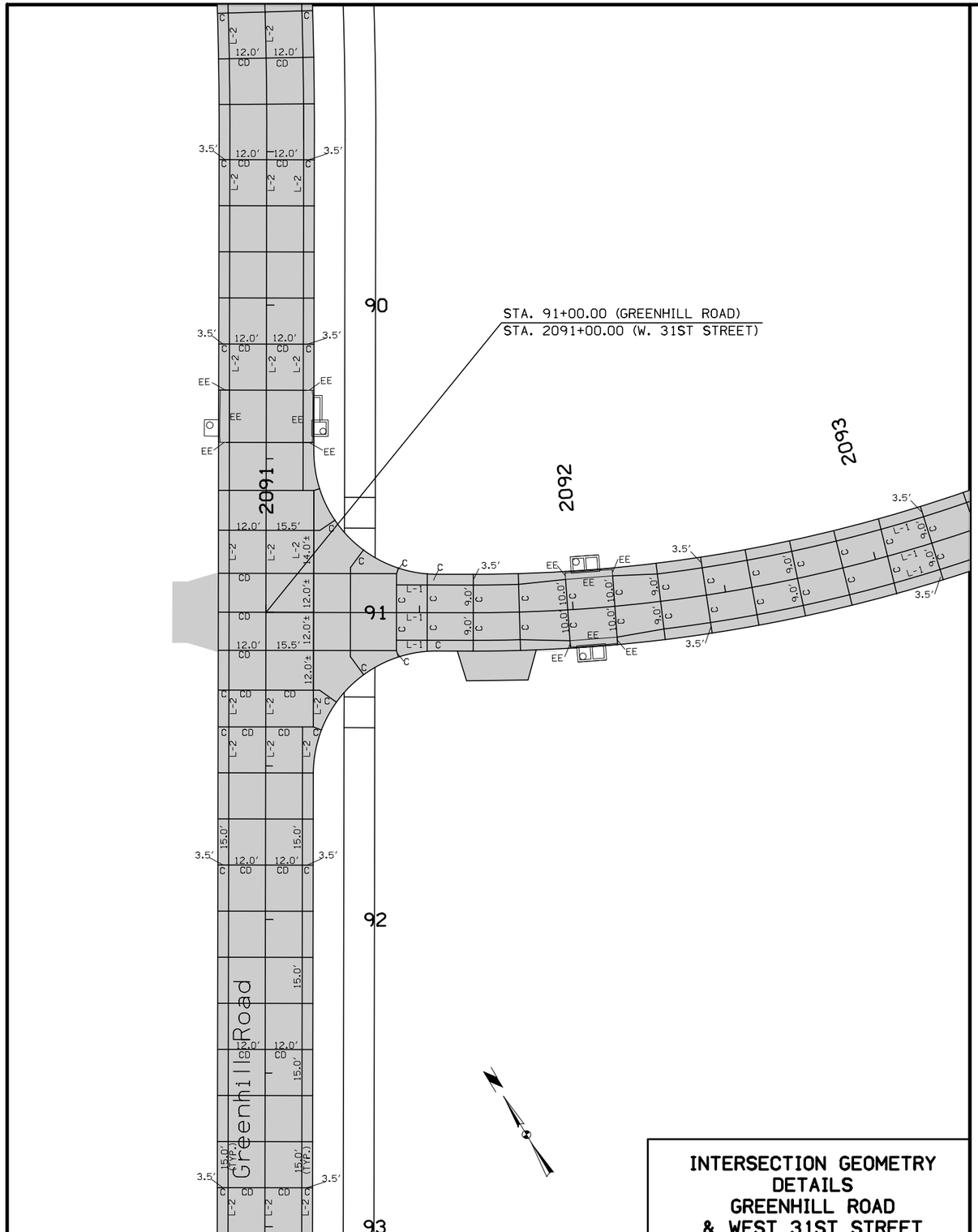
Placement Description								Topsoil Excavation Available From			
Area No.	Quantity CY	Location Station to Station		Side L. or R.	Slope B. or F.	(T) IN	Remarks	Amount Reserved CY	Station to Station		Remarks
1	5720.0	78+50.00	118+60.00	L. & Rt.	B,F	6.0		5720.0	78+50.00	118+60.00	
2	3328.0	119+20.00	144+69.36	L. & Rt.	F	6.0		3328.0	119+20.00	144+69.36	
3	292.0	144+69.36	149+00.00	L. & Rt.	B,F	6.0		292.0	144+69.36	149+00.00	
4	217.0	984+50.00	987+20.00	L. & Rt.	B,F	6.0		217.0	984+50.00	987+20.00	
5	414.0	2091+20.00	2094+50.00	L. & Rt.	B,F	6.0		414.0	2091+20.00	2094+50.00	
6	1935.0	3181+00.00	3207+00.00	L. & Rt.	B,F	6.0		1935.0	3181+00.00	3207+00.00	
TOTAL	11906.0										

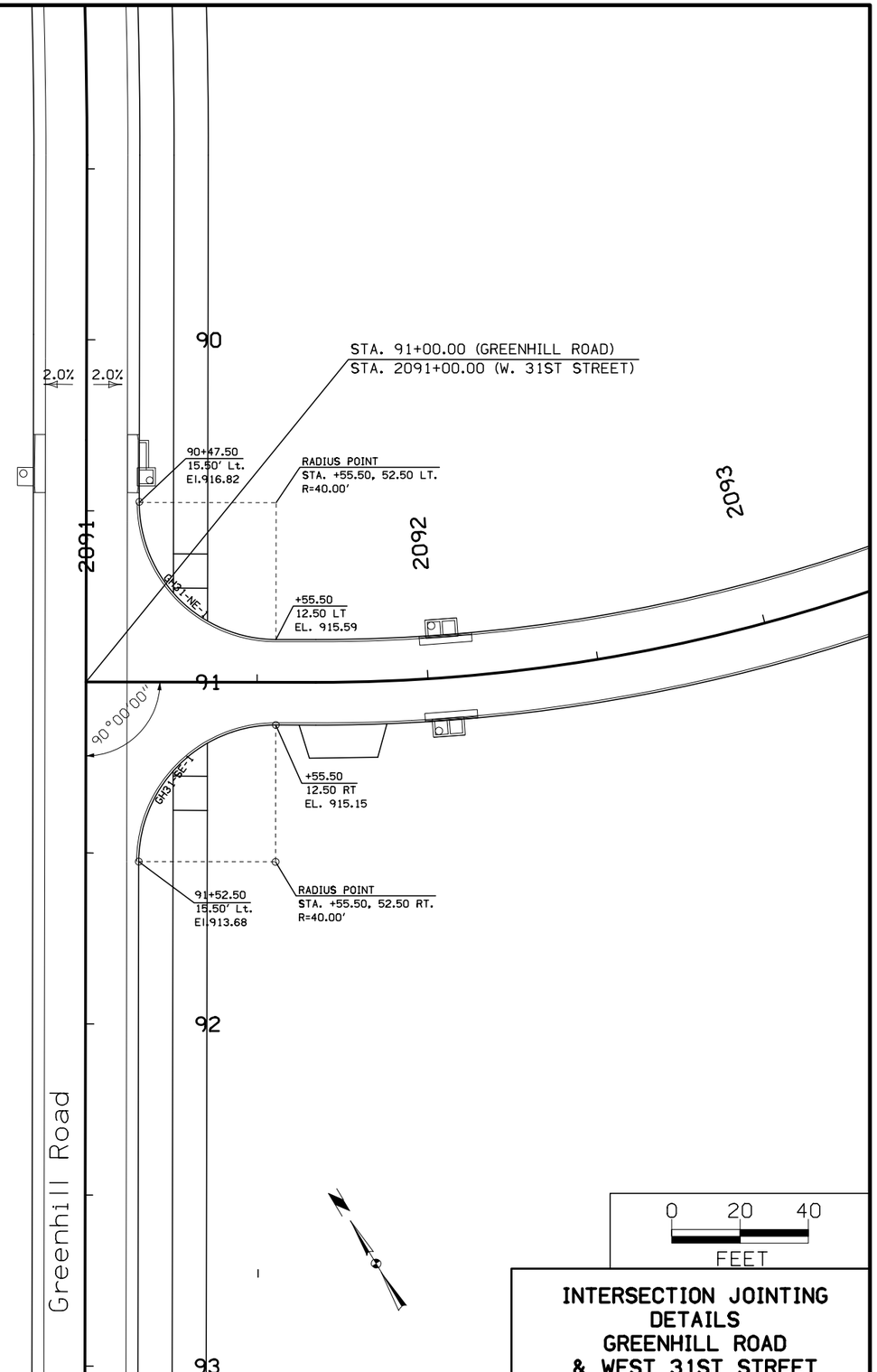
112-5
~~10-20-15~~ 1

CONCRETE MEDIANS

* Bid item

Begin Station	End Station	Type	Area* SY	Modified Subbase CY	Special Backfill CY	Remarks
117+57.53	118+04.14	6 inch	65.9			MODIFIED SUBBASE INCLUDED IN PAVING
119+38.80	119+56.40	6 inch	51.6			MODIFIED SUBBASE INCLUDED IN PAVING
119+67.39	120+56.21	6 inch	73.6			MODIFIED SUBBASE INCLUDED IN PAVING
3187+36.76	3187+89.93	6 inch	74.4			MODIFIED SUBBASE INCLUDED IN PAVING
3189+22.55	3189+39.76	6 inch	45.1			MODIFIED SUBBASE INCLUDED IN PAVING
3189+50.71	3190+09.13	6 inch	42.4			MODIFIED SUBBASE INCLUDED IN PAVING





INTERSECTION GEOMETRY DETAILS GREENHILL ROAD & WEST 31ST STREET

INTERSECTION JOINTING DETAILS GREENHILL ROAD & WEST 31ST STREET

FILE NO.	ENGLISH	DESIGN TEAM AECOM\WIELE\PAAR	CITY OF CEDAR FALLS	PROJECT NUMBER STP-U-1185(635)--70-07	SHEET NUMBER L.6

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Changed by Addenda

For Geometric Details See Sheet L.05

Remove Entrance

University Avenue

Greenhill Road

STA. 118+90.97 (GREENHILL ROAD)
STA. 3188+56.55 (UNIVERSITY AVE)

CURB WIDTH VARIES. REFER TO L.8 FOR BACK OF CURB GEOMETRY.

4" SLOPED CURB

FULL DEPTH PAVING

6" STANDARD CURB WITH 6" PAVED MEDIAN

RAB-NB ℄

RAB-SB ℄

RAB-WB ℄

RAB-EB ℄

6 equal spaces (7.3'±)

8 equal spaces (6.5'±)

Notes:
All Transverse Joints 'CD' unless distance between Longitudinal Joins is less than 2' or otherwise noted.
All Longitudinal Joints 'L-2' unless otherwise noted.

0 20 40
FEET

INTERSECTION JOINTING DETAILS GREENHILL ROAD & UNIVERSITY AVENUE

FILE NO.	ENGLISH	DESIGN TEAM AECOM\WIELE\PAAR	CITY OF CEDAR FALLS	PROJECT NUMBER STP-U-1185(635)--70-07	SHEET NUMBER L.9	

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Changed by Addenda