

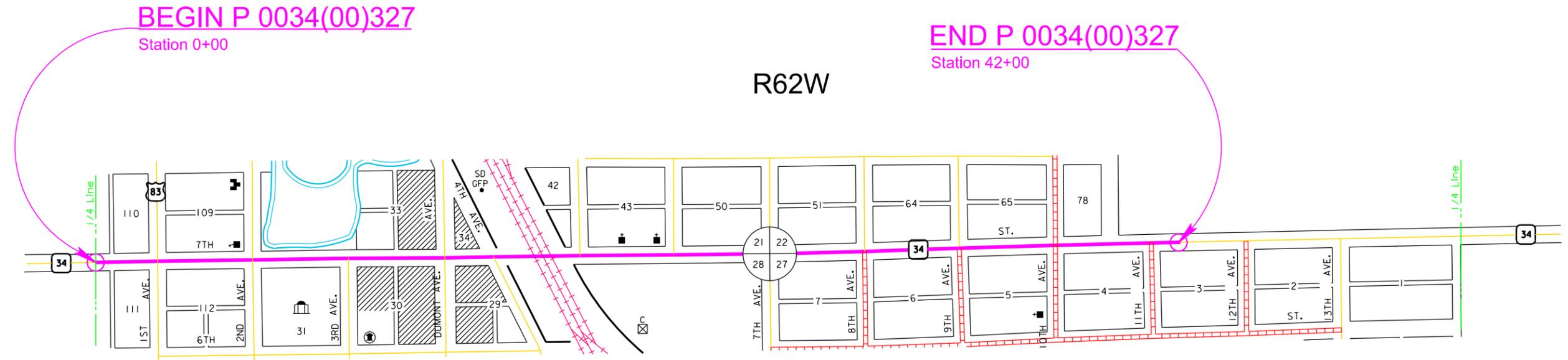
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B1	B34

Plotting Date: 11/19/2013

# Section B: Grading Plans

## INDEX OF SHEETS

- B1 General Layout with Index
- B2-B4 Estimate With General Notes & Tables
- B5-B6 Horizontal Alignment & Control Data Sheet
- B7 Topography Symbology & Legend
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- B15-B26 Curb Ramp Details
- B27 Special Detail
- B28-B34 Standard Plates



**BEGIN P 0034(00)327**  
Station 0+00

**END P 0034(00)327**  
Station 42+00

R62W

R62W

**WOONSOCKET**

T107N

T107N

Plot Scale - 1:200

Plotted From - trpr17196

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**SECTION B ESTIMATE OF QUANTITIES**

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	648	Ft
110E1010	Remove Asphalt Concrete Pavement	144.0	SqYd
110E1140	Remove Concrete Sidewalk	258.0	SqYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
320E1200	Asphalt Concrete Composite	31.3	Ton
650E0080	Type B68 Concrete Curb and Gutter	648	Ft
650E6080	8" Concrete Valley Gutter	12	Ft
651E0060	6" Concrete Sidewalk	3,321	SqFt
651E7000	Type 1 Detectable Warnings	310	SqFt
734E0010	Erosion Control	Lump Sum	LS

**TYPE 1 DETECTABLE WARNINGS**

Detectable warnings shall be in compliance with the Americans with Disability Act regulations.

The detectable warnings shall be installed according to the manufacturer's installation instructions.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material shall be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness shall be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

The detectable warnings shall be a brick red color for application in concrete curb ramps. Cast iron plates may be a natural patina (weathered steel).

When Type 1 Detectable Warnings are specified, the Contractor shall furnish and install only one of the products listed in the Type 1 Detectable Warnings table.

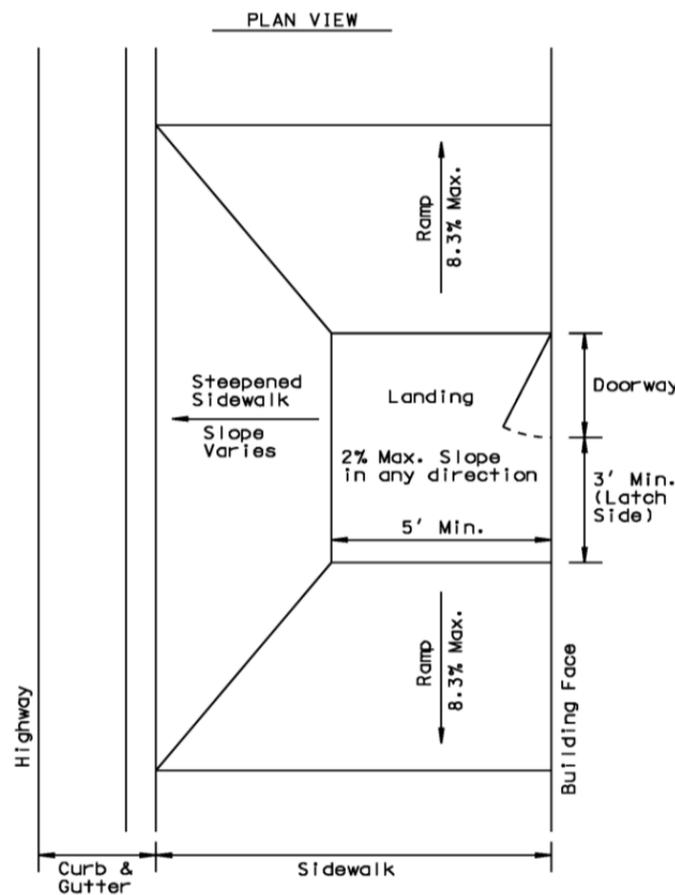
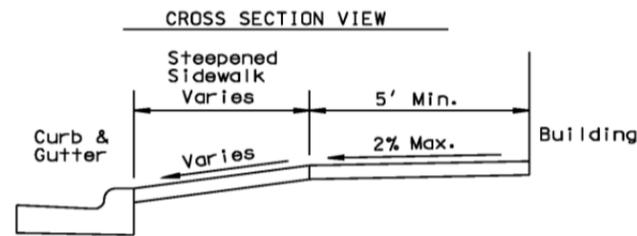
Type 1 Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron Plate	Neenah Foundry Company Neenah, WI 800-558-5075 <a href="http://www.neenahfoundry.com/">http://www.neenahfoundry.com/</a>
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 <a href="http://www.deeter.com/">http://www.deeter.com/</a>
Detectable Warning Plate Cast Iron Plate	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 <a href="http://www.ejiw.com">http://www.ejiw.com</a>
CAST-DWD Cast Iron Plate	Key 3 Casting (Northern Foundry) 555 West 25 <sup>th</sup> Street Hibbing, MN 55746 218-263-8871 <a href="http://key3casting.com">http://key3casting.com</a>

**CONCRETE SIDEWALK ADJACENT TO BUILDINGS**

When placing sidewalk adjacent to buildings, the elevation of the new sidewalk may be either higher or lower than the existing sidewalk. This may require that modifications be made to building exteriors, such as removal of siding, installation of flashing, etc. Building modifications shall be approved by the Engineer. All costs associated with modifying buildings for sidewalk placement shall be incidental to the contract unit price per square foot for "6" Concrete Sidewalk".

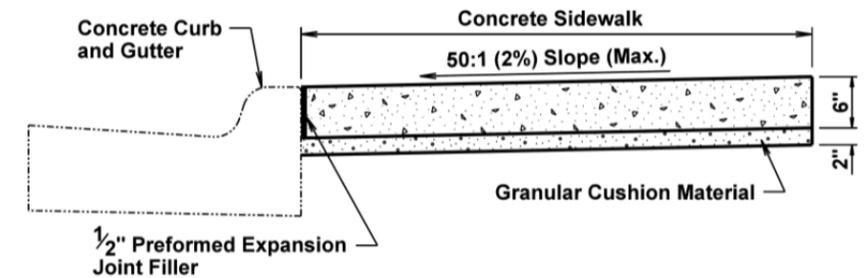
Sidewalk placed adjacent to building doorways should nearly match the doorway threshold and shall have a maximum 1/2" vertical rise at the doorway threshold. Sidewalk landings shall be provided at building doorways according to the Steepened Concrete Sidewalk Details. Sidewalk will ramp down from the landing to the typical sidewalk with an 8.3% maximum slope. The limits of the steepened concrete sidewalk shown on the curb and gutter layout sheets may need to be adjusted to the actual doorway location and to meet sidewalk slope requirements. Additional locations of steepened concrete sidewalk may be needed and should follow the requirements in the detail.



**ASPHALT CONCRETE PAVEMENT REMOVAL**

The quantity of asphalt concrete pavement removal is based on removing the existing asphalt concrete pavement along the new curb and gutter for a width of two feet. The existing pavement shall be sawed full depth to a true line with the vertical face. Additional width of removal may be required at locations on the side streets to lower the new curb and gutter to obtain a 2% maximum cross slope at the bottom of the curb ramps. Sawing shall be incidental to the various contract items.

**CONCRETE SIDEWALK.**



The concrete sidewalk shall be constructed in accordance with Section 651 of the Standard Specifications. The sidewalk details shown above are typical of this project; however, the sidewalk width and other special details are shown on the Curb Ramp Detail sheets.

**UTILITIES**

The Contractor shall be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor shall contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

**CLEARING**

Before clearing activities begin, the Contractor shall contact the Engineer to determine the limits of clearing for the project. If the trees or shrubs that are suppose to remain within the limits of work are damaged or destroyed by the Contractor, the Contractor shall replace them with the same size and type at the Contractor's expense.

**REMOVE AND REPLACE TOPSOIL**

Topsoil shall also be salvaged and stockpiled prior to the installation of curb ramps. The topsoil shall then be spread evenly over the disturbed areas.

All cost associated with removing and replacing the topsoil along areas to be paved shall be incidental to the lump sum price for "Remove and Replace Topsoil".

**EROSION CONTROL**

Fertilizing, permanent seeding, and fiber mulching will be paid for at the contract lump sum price for "Erosion Control".

**Permanent Seeding**

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways.

All permanent seed shall be planted in the topsoil at a depth of 1/4" to 1/2". All seed broadcast must be raked or dragged in (incorporated) within the top 1/4" to 1/2" of topsoil when possible. This requirement may be waived by the Engineer during construction when raking or dragging is deemed not feasible by conventional methods.

Type D Permanent Seed Mixture shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/1000 SqFt)
Kentucky Bluegrass	Alene, Avalanche	1.4
Perennial Ryegrass	Turf Type, Ascend	1.4
Creeping Red Fescue	Epic	1.4
Chewings Fescue	Ambrose	1.4
Alkali Grass	Fults, Fults II, Quill, Salty	1.4
Total:		7

**Fiber Mulching**

Fiber mulch shall be applied in a separate operation following permanent seeding where practical.

Fiber mulch shall be applied at the rate of 45 pounds per 1000 square feet.

The Contractor shall allow the fiber mulch to cure a minimum of 18 hours prior to watering or any storm event to ensure proper cohesion between the soil and fiber particles.

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials shall be incidental to the contract lump sum price for "Erosion Control".

The fiber mulch provided shall be from the approved product list. The approved product list for fiber mulch may be viewed at the following internet site:

<http://sddot.com/business/certification/products/Default.aspx>

**Fertilizing**

The Contractor shall apply an all-natural slow release fertilizer prior to seeding or placing sod. The all-natural fertilizer shall have a minimum guaranteed analysis of 4-6-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 3.2%, a minimum of 6% (P2O5) available phosphate, a minimum of 4% (K2O) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer shall be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer shall have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer shall also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread. The all-natural slow release fertilizer shall be applied according to the manufacturer's application recommendations.

The application rate is 34 pounds per 1,000 square feet for urban areas

The all-natural slow release fertilizer shall be from the list below or an approved equal:

<u>Product</u>	<u>Manufacturer</u>
Sustane	Sustane Corporate Headquarters Cannon Falls, Minnesota Phone: 1-800-352-9245 <a href="http://www.sustane.com/">http://www.sustane.com/</a>

**Mycorrhizal Inoculum**

Mycorrhizal inoculum shall consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier shall provide certification of the fungal species claimed and the live propagule count. The inoculum shall include the following fungal species:

<i>Glomus intraradices</i>	25%
<i>Glomus aggregatu</i>	25%
<i>Glomus mosseae</i>	25%
<i>Glomus etunicatum</i>	25%

All seed shall be inoculated with a minimum of 20,000 live propagules of mycorrhizal fungi per 1,000 square feet. All costs of inoculating the seed shall be incidental to the contract lump sum price for "Erosion Control".

The mycorrhizal inoculum shall be from the list below or an approved equal:

<u>Product</u>	<u>Manufacturer</u>
MycoApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 <a href="http://www.mycorrhizae.com/">http://www.mycorrhizae.com/</a>

**ASPHALT CONCRETE COMPOSITE**

Mineral aggregate for the Asphalt Concrete Composite shall conform to the requirements for Class E, Type 1 Asphalt Concrete.

The asphalt binder used in the mixture shall be PG 58-28, PG 58-34, PG 64-22, PG 64-28, or PG 64-34 Asphalt Binder.

All other requirements in the Standard Specifications for Asphalt Concrete Composite (4") shall apply.

The Contractor shall backfill and compact the two foot width along the new curb and gutter with (4") granular material and (4") Asphalt concrete composite to full depth. Asphalt concrete composite and gravel cushion backfilling and compaction shall be incidental to the contract unit price per ton for "Asphalt Concrete Composite".

# TABLE OF SECTION B PAVEMENT QUANTITIES

STATE OF SOUTH  
DAKOTA

PROJECT  
P 0034(00)327

SHEET  
B4

TOTAL SHEETS  
B34

		INSTALL						REMOVE					
		Concrete Curb and Gutter	Concrete Valley Gutter	Concrete Sidewalk	Detectable Warning			Concrete Curb and Gutter	Concrete Sidewalk				
		Type B			Type 1								
Intersection or Station to Station	Quadrant	Ft	Ft	SqFt	SqFt			Ft	SqYd				
1st Ave (2+72)	Southeast Quadrant	22.0		83.9	10.0			22.0	3.3				
	Southwest Quadrant	10.0		92.9	10.0			10.0	7.6				
2nd Ave (6+40)	Northwest Quadrant	10.0		117.7	10.0			10.0	12.6				
	Northeast Quadrant	22.0		85.0	10.0			22.0	3.4				
	Northwest Quadrant	27.0		106.0	10.0			27.0	10.0				
	Southwest Quadrant	14.0		128.2	10.0			14.0	7.9				
3rd Ave (10+06)	Northeast Quadrant	14.0		136.5	10.0			14.0	9.3				
	Southeast Quadrant	14.0		145.0	10.0			14.0	9.9				
	Northwest Quadrant	17.0		82.2	10.0			17.0	9.1				
	Southwest Quadrant	17.0		123.7	10.0			17.0	11.1				
Dumont Ave (13+77)	Northeast Quadrant	17.0		82.2	10.0			17.0	9.1				
	Southeast Quadrant	17.0		129.7	10.0			17.0	8.2				
	Northwest Quadrant	27.0	4.0	139.2	10.0			27.0	15.5				
	Southwest Quadrant	22.0	4.0	99.4	10.0			22.0	8.5				
4th Ave (15+83)	Northeast Quadrant	26.0	4.0	135.5	10.0			26.0	15.1				
	Northwest Quadrant	27.0		141.3	10.0			27.0	13.8				
	Northeast Quadrant	27.0		172.5	10.0			27.0	17.8				
5th Ave (18+99)	Northwest Quadrant	22.0		81.8	10.0			22.0	4.3				
	Southeast Quadrant	27.0		149.1	10.0			27.0	15.1				
	Northeast Quadrant	22.0		83.9	10.0			22.0	4.2				
6th Ave (22+65)	Northeast Quadrant	22.0		81.9	10.0			22.0	4.5				
	Northwest Quadrant	22.0		83.1	10.0			22.0	3.9				
7th Ave (26+30)	Northeast Quadrant	22.0		81.8	10.0			22.0	4.1				
	Northwest Quadrant	22.0		103.9	10.0			22.0	9.2				
8th Ave (29+97)	Northeast Quadrant	22.0		83.1	10.0			22.0	4.3				
	Northwest Quadrant	22.0		81.6	10.0			22.0	4.0				
9th Ave (33+64)	Northeast Quadrant	22.0		81.7	10.0			22.0	4.2				
	Northwest Quadrant	22.0		85.3	10.0			22.0	4.1				
10th Ave (37+31)	Northeast Quadrant	22.0		99.0	10.0			22.0	6.4				
	Northwest Quadrant	22.0		83.9	10.0			22.0	3.7				
11th Ave (40+97)	Northeast Quadrant	27.0		139.7	10.0			27.0	13.8				
<b>Total:</b>		648.0	12.0	3320.7	310.0			648.0	258.0				

# HORIZONTAL ALIGNMENT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B5	B34

Plotting Date: 11/19/2013

## MAINLINE

Type	Station			Northing	Easting
POB	0+00.00			633778.364	2507969.991
		TL= 274.48	N 88°19'23" E		
PI	2+74.48			633786.397	2508244.356
		TL= 366.93	N 88°18'50" E		
PI	6+41.42			633797.193	2508611.130
		TL= 364.19	N 88°19'20" E		
PI	10+05.61			633807.855	2508975.168
		TL= 369.90	N 88°19'09" E		
PI	13+75.51			633818.706	2509344.911
		TL= 520.85	N 88°19'22" E		
PI	18+96.36			633833.950	2509865.533
		TL= 367.42	N 88°19'13" E		
PI	22+63.78			633844.721	2510232.794
		TL= 366.08	N 88°17'29" E		
PI	26+29.85			633855.636	2510598.710
		TL= 367.53	N 87°39'12" E		
PI	29+97.38			633870.685	2510965.929
		TL= 366.65	N 87°33'58" E		
PI	33+64.03			633886.256	2511332.246
		TL= 367.35	N 87°46'03" E		
PI	37+31.38			633900.566	2511699.317
		TL= 365.44	N 87°32'46" E		
PI	40+96.82			633916.213	2512064.423
		TL= 365.90	N 87°44'30" E		
POE	44+62.72			633930.630	2512430.038

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/07) SF = 0.99987770

Plot Scale - 1:40

Plotted From - trpr17196

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# CONTROL DATA

STATE OF SOUTH DAKOTA	PROJECT P 0034(00)327	SHEET B6	TOTAL SHEETS B34
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Plotting Date: 11/19/2013

HORIZONTAL AND VERTICAL CONTROL POINTS					
POINT	STATION & OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
BM #1	66+33.63-52.28'L	BM FROM PCN 02FA	206435.210	2435262.475	1275.060
1	65+11.55-54.02'L	PK NAIL 1' WEST OF CONCRETE, CENTERLINE OF 15TH ST. WEST SIDE OF HIGHWAY 37	206313.145	2435259.780	1274.360
2	59+36.59-26.79'R	PK NAIL EAST OF CONCRETE, CENTERLINE OF 14TH ST. EAST SIDE OF NOTES HIGHWAY 37	205738.786	2435356.655	1276.540
3	53+71.33-40.10'R	PK NAIL 1' WEST OF CONCRETE, CENTERLINE OF 13TH ST. IN CONCRETE, EAST SIDE OF HIGHWAY 37	205174.161	2435386.531	1279.710
4	48+08.76-35.17'R	PK NAIL 5.5' WEST OF END OF CONCRETE, CENTERLINE OF 12TH ST. IN CONCRETE, EAST SIDE OF HIGHWAY 37	204611.686	2435398.087	1280.890
5	39+17.59-54.79'R	PK NAIL 1' EAST OF CONCRETE, CENTERLINE OF 10TH ST. EAST SIDE OF HWY 37	203721.327	2435443.406	1281.890
6	32+90.03-40.59'R	PK NAIL 1' EAST OF CONCRETE, CENTERLINE OF 9TH ST. EAST SIDE OF HWY 37	203093.611	2435446.007	1283.650
7	28+90.67-48.98'R	PK NAIL 1' EAST OF CONCRETE, CENTERLINE OF 8TH ST. EAST SIDE OF HIGHWAY 37	202694.622	2435465.081	1286.810
8	25+52.23-46.88'L	PK NAIL 1' WEST OF CONCRETE, CENTERLINE OF 7TH ST. WEST SIDE OF HIGHWAY 37	202353.735	2435378.309	1287.090
9	20+66.09-57.61'R	PK NAIL 1' EAST OF CONCRETE, CENTERLINE OF 6TH ST. EAST SIDE OF HWY 37	201870.566	2435495.768	1287.480
10	16+49.29-48.64'R	PK NAIL 1' EAST OF CONCRETE, CENTERLINE OF 5TH ST. EAST SIDE OF HWY 37	201454.313	2435498.122	1286.900
11	12+30.98-78.39'R	PK NAIL 1' NORTH OF DROPINLET FOR SERVICE ROAD, NORTHEAST QUADRANT OF INTERSECTION OF HIGHWAY 37 & 14	201034.848	2435541.071	1280.770

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System.  
 North Zone (NAD 83/2007) SF = 0.99995111  
 The elevations shown on this sheet are based on NAVD 88.

Plot Scale - 1:40

Plotted From - trpr17196

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# EXISTING TOPOGRAPHY SYMBOLOGY AND LEGEND

Anchor		Information Sign One Post		Satellite Dish	
Antenna		Information Sign Two Post		Septic Tank	
Approach		Interstate Close Gate		Shrub Tree	
Assumed Corner		Iron Pin		Sidewalk	
Azimuth Marker		Irrigation Ditch		Sign Face	
Bbq Grill/ Fireplace		Lake Edge		Sign Post	
Bearing Tree		Lawn Sprinkler		Slough Or Marsh	
Bench Mark		Mailbox		Spring	
Box Culvert		Manhole Electric		Stream Gauge	
Bridge		Manhole Gas		Street Marker	
Brush		Manhole Misc		Telephone Fiber Optics	
Buildings		Manhole Sanitary Sewer		Telephone Junction Box	
Bulk Tank		Manhole Storm Sewer		Telephone Pole	
Cattle Guard		Manhole Telephone		Television Cable Jct Box	
Cemetery		Manhole Water		Television Tower	
Centerline		Merry-Go-Round		Test Wells/Bore Holes	
Cistern		Microwave Radio Tower		Traffic Signal	
Clothes Line		Misc. Property Corner		Trash Barrel	
Commercial Sign Double Face		Misc. Post		Tree Belt	
Commercial Sign One Post		Overhang Or Encroachment		Tree Coniferous	
Commercial Sign Overhead		Overhead Utility Line		Tree Deciduous	
Commercial Sign Two Post		Parking Meter		Tree Stumps	
Concrete Symbol		Pipe With End Section		Triangulation Station	
Creek Edge		Pipe With Headwall		Underground Electric Line	
Curb/Gutter		Pipe Without End Section		Underground Gas Line	
Curb		Playground Slide		Underground Sanitary Sewer	
Dam Grade/Dike/Levee		Playground Swing		Underground Storm Sewer	
Ditch Block		Power And Light Pole		Underground Tank	
Drainage Profile		Power And Telephone Pole		Underground Telephone Line	
Drop Inlet		Power Meter		Underground Television Cable	
Edge Of Asphalt		Power Pole		Underground Water Line	
Edge Of Concrete		Power Pole And Transformer		Warning Sign One Post	
Edge Of Gravel		Power Tower Structure		Warning Sign Two Post	
Edge Of Other		Propane Tank		Water Fountain	
Edge Of Shoulder		Property Pipe		Water Hydrant	
Elec. Trans./Power Jct. Box		Property Pipe With Cap		Water Meter	
Fence Barbwire		Property Stone		Water Tower	
Fence Chainlink		Public Telephone		Water Valve	
Fence Electric		Railroad Crossing Signal		Water Well	
Fence Misc.		Railroad Milepost Marker		Weir Rock	
Fence Rock		Railroad Profile		Windmill	
Fence Snow		Railroad R.O.W. Marker		Wingwall	
Fence Wood		Railroad Signs		Witness Corner	
Fence Woven		Railroad Switch			
Fire Hydrant		Railroad Track		State and National Line	
Flag Pole		Railroad Trestle		County Line	
Flower Bed		Rebar		Section Line	
Gas Valve Or Meter		Rebar With Cap		Quarter Line	
Gas Pump Island		Reference Mark		Sixteenth Line	
Grain Bin		Retaining Wall		Property Line	
Guardrail		Riprap		Construction Line	
Gutter		River Edge		R. O. W. Line	
Guy Pole		Rock And Wire Baskets		New R. O. W. Line	
Haystack		Rockpiles		Cut and Fill Limits	
Hedge		Route Sign One Post		Control of Access	
Highway R.O.W. Marker		Route Sign Two Post		New Control of Access	

Plot Scale - 1:200

Plotted From - Ipr17196

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**Begin P 0034(00)327**  
Station 0+00.00

PI 0+00.00  
N 633778.36  
E 2507969.99  
Del 0°00'17"R

# WOONSOCKET

John R. Brosnan

Lot 12 in Block 110 of First Addition to the Town of Woonsocket

Parcel A1

Woonsocket Independent School District #1

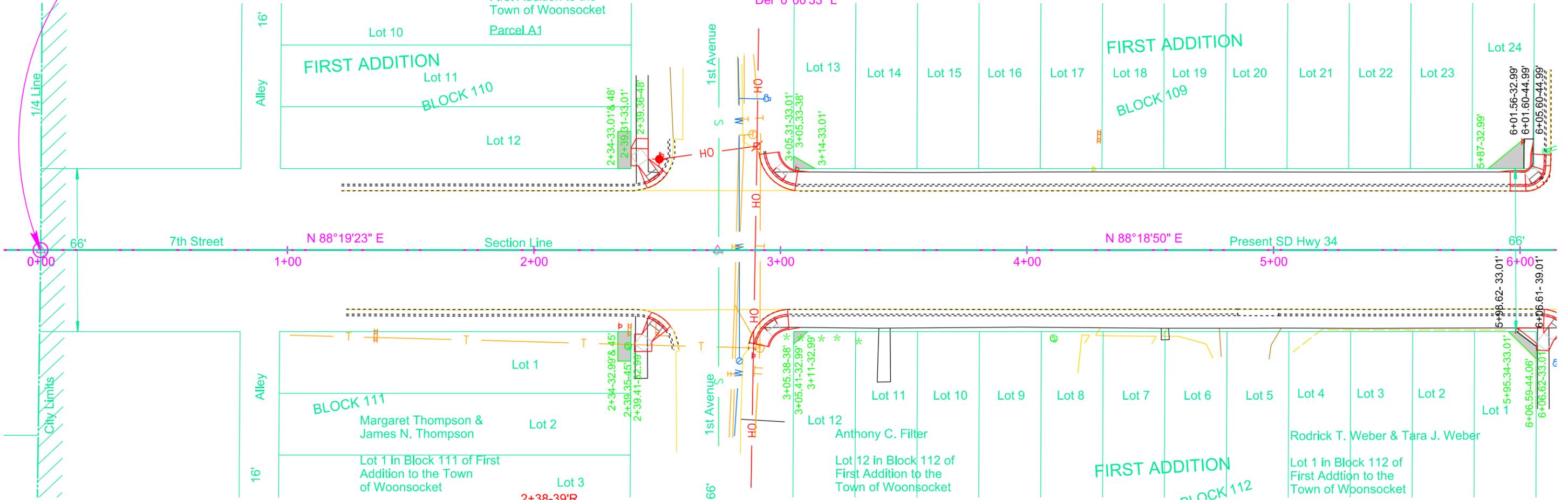
Lot 13 in Block 109 of First Addition to the Town of Woonsocket

Parcel A3

Woonsocket Independent School District #1

Lot 24 in Block 109 of First Addition to the Town of Woonsocket

Parcel 1  
48 sq ft, Permanent Easement more or less



Parcel A2  
2+38-39'R  
Do Not Disturb Tree

Do Not Disturb Trees at the following locations:  
3+03-35'R  
3+08-35'R

Parcel 2  
24 sq ft, Permanent Easement more or less  
5+95-33'R to 6+06-44'R  
Do Not Disturb Picket Fence

Parcel A1  
2+34 to 2+39.36 L  
Temporary easement for Cut & sidewalk containing 80 sq ft, more or less

Parcel A2  
2+34 to 2+39.41 R  
Temporary easement for Cut containing 65 sq ft, more or less

Parcel A3  
3+05.31 to 3+14 L  
Temporary easement for Cut containing 22 sq ft, more or less

Parcel 1  
5+87 to 6+01.60 L  
Temporary easement for Cut & sidewalk containing 87 sq ft, more or less

Parcel A4  
3+05.38 to 3+11 R  
Temporary easement for Cut containing 14 sq ft, more or less

Parcel 2  
5+95.34 to 6+06.62 R  
Temporary easement for Cut & sidewalk containing 62 sq ft, more or less

Plot Scale - 1"=40'

Plotted From - lpr17196

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B9	B34

Plotting Date: 11/19/2013

Plot Scale - 1"=40'

Plotted From - trpr17196

# WOONSOCKET

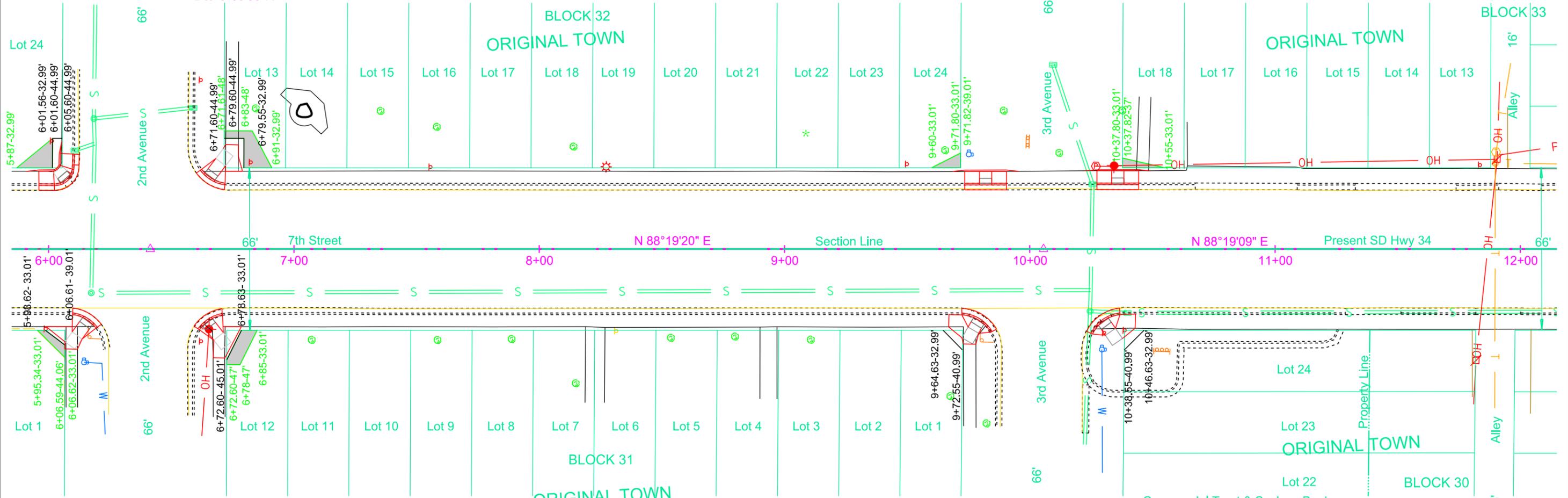
PI 10+05.61  
N 633807.86  
E 2508975.17  
Del 0°00'12" L



City of Woonsocket  
Lot 13 in Block 32 of Original Town of Woonsocket  
Parcel 3  
96 sq ft, Permanent Easement more or less

City of Woonsocket  
Lot 24 in Block 32 of Original Town of Woonsocket  
Parcel A5

City of Woonsocket  
Lot 18 in Block 33 of Original Town of Woonsocket  
Parcel A6



Parcel 3  
6+71.60 to 6+91 L  
Temporary easement for Cut & sewalk containing 136 sq ft, more or less

Parcel A5  
9+60 to 9+71.82 L  
Temporary easement for Cut & sidewalk curb containing 35 sq ft, more or less

Parcel 4  
6+72.60 to 6+85.00 R  
Temporary easement for Cut containing 88 sq ft, more or less

Parcel A6  
10+37.80 to 10+55.00 L  
Temporary easement for Cut & Sidewalk containing 34 sq ft, more or less

Commercial Trust & Savings Bank  
n/k/a First National Bank South Dakota  
The West 100 feet of Lot 24 in Block 30 of Original Town of Woonsocket  
Parcel 6  
32 sq ft, Permanent Easement more or less

File - U:\trproj\sanb02BH1006.dgn

# WOONSOCKET

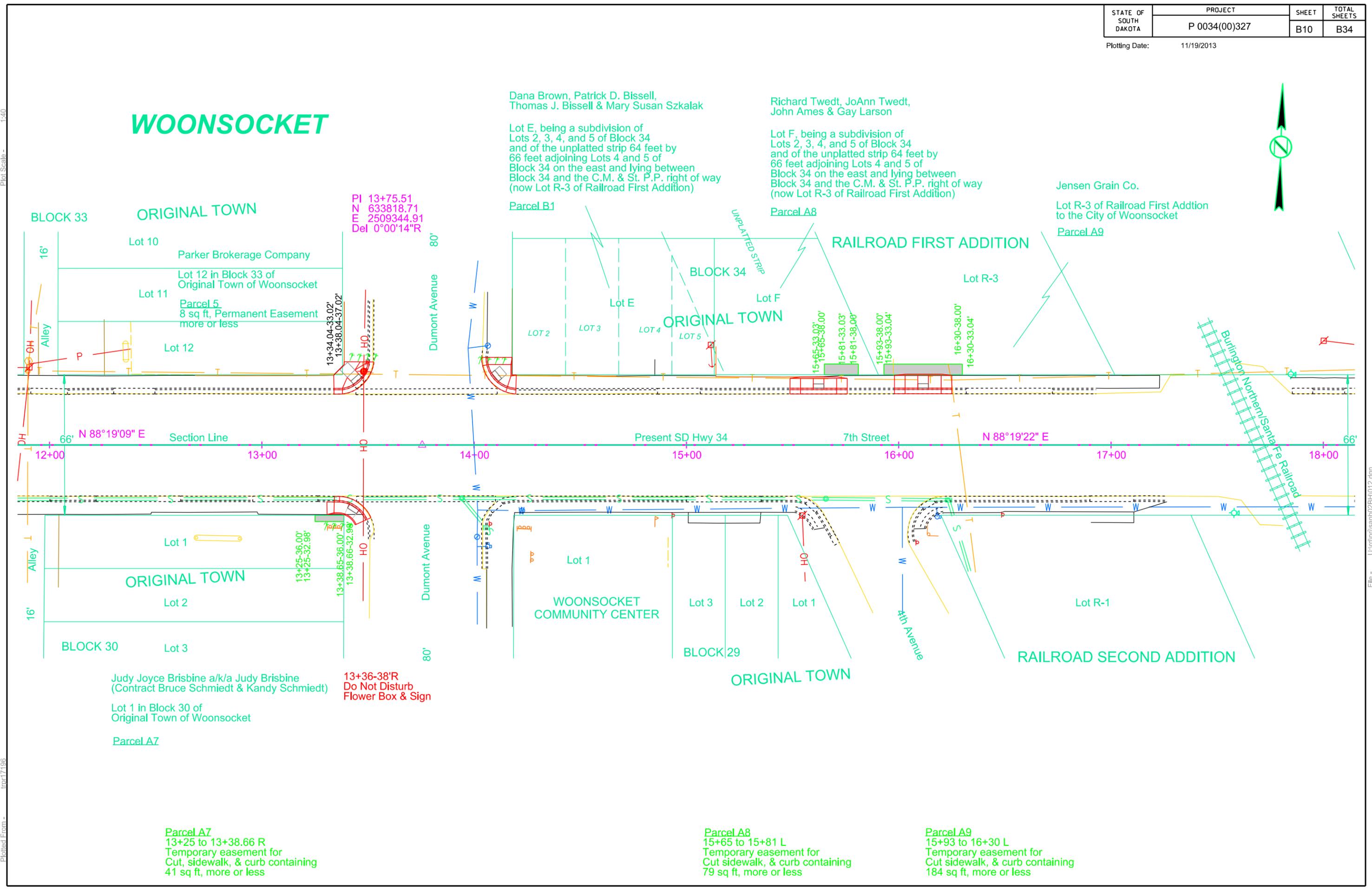
Dana Brown, Patrick D. Bissell,  
Thomas J. Bissell & Mary Susan Szkalak

Richard Twedt, JoAnn Twedt,  
John Ames & Gay Larson

Lot E, being a subdivision of  
Lots 2, 3, 4, and 5 of Block 34  
and of the unplatted strip 64 feet by  
66 feet adjoining Lots 4 and 5 of  
Block 34 on the east and lying between  
Block 34 and the C.M. & St. P.P. right of way  
(now Lot R-3 of Railroad First Addition)

Lot F, being a subdivision of  
Lots 2, 3, 4, and 5 of Block 34  
and of the unplatted strip 64 feet by  
66 feet adjoining Lots 4 and 5 of  
Block 34 on the east and lying between  
Block 34 and the C.M. & St. P.P. right of way  
(now Lot R-3 of Railroad First Addition)

Jensen Grain Co.  
Lot R-3 of Railroad First Addition  
to the City of Woonsocket



PI 13+75.51  
N 633818.71  
E 2509344.91  
Del 0°00'14"R

13+34.04-33.02'  
13+38.04-37.02'

13+25-36.00'  
13+25-32.98'  
13+38.65-36.00'  
13+38.66-32.98'

13+36-38'R  
Do Not Disturb  
Flower Box & Sign

Judy Joyce Brisbine a/k/a Judy Brisbine  
(Contract Bruce Schmiedt & Kandy Schmiedt)

Lot 1 in Block 30 of  
Original Town of Woonsocket

Parcel A7

Parcel A7  
13+25 to 13+38.66 R  
Temporary easement for  
Cut, sidewalk, & curb containing  
41 sq ft, more or less

Parcel A8  
15+65 to 15+81 L  
Temporary easement for  
Cut sidewalk, & curb containing  
79 sq ft, more or less

Parcel A9  
15+93 to 16+30 L  
Temporary easement for  
Cut sidewalk, & curb containing  
184 sq ft, more or less

Plot Scale - 1"=40'

trpr17196

Plotted From -

File - U:\trpr\jamb02B\1012.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B11	B34

Plotting Date: 11/19/2013

Adjust Water Valve at following locations:  
19+13-31'R  
19+34.5-28.6'R

Patrick C. Hughes & Cheryl L. Hughes

Lot 8 in Block 42 of Original Town of Woonsocket

Parcel A10

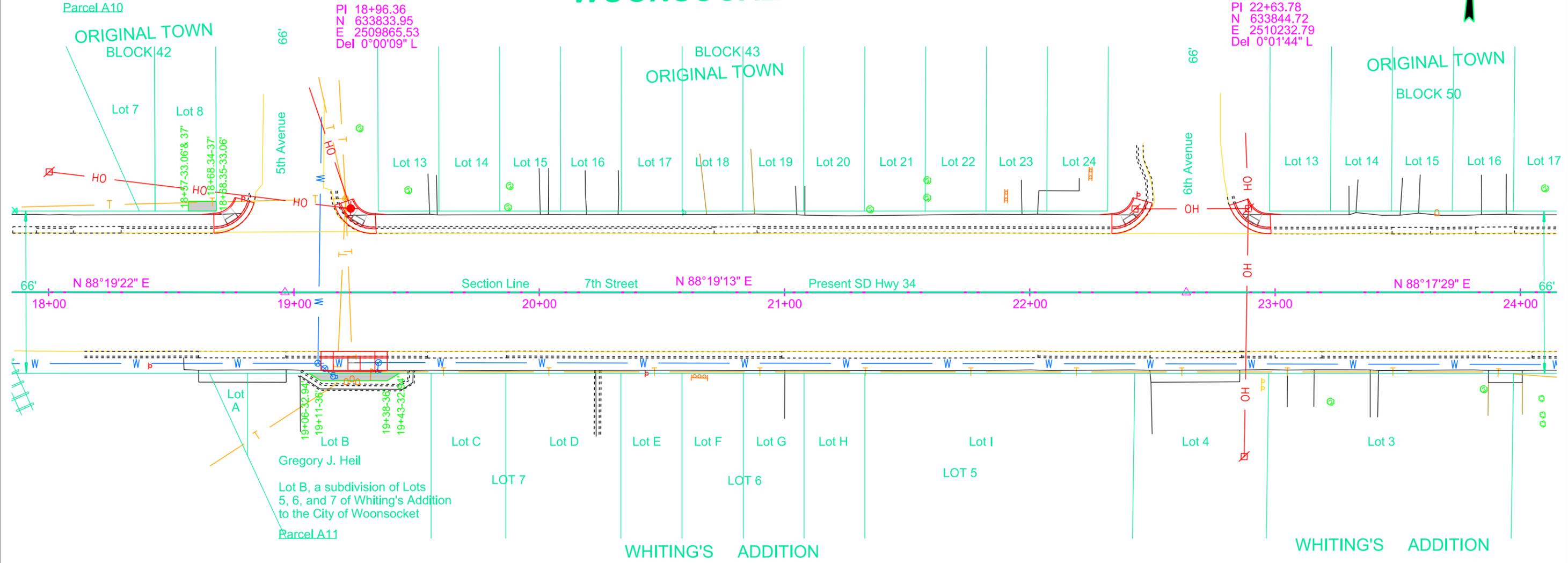
# WOONSOCKET



ORIGINAL TOWN BLOCK 42

BLOCK 43 ORIGINAL TOWN

ORIGINAL TOWN BLOCK 50



PI 18+96.36  
N 633833.95  
E 2509865.53  
Del 0°00'09" L

PI 22+63.78  
N 633844.72  
E 2510232.79  
Del 0°01'44" L

- 19+16-34'R Do Not Disturb Fire Hydrant
- 19+24-35'R Do Not Disturb Mailboxes
- 19+31-36'R Do Not Disturb Flag Pole
- 19+34-32'R Do Not Disturb Water Spigot
- 19+40-36'R Do Not Disturb Spotlight

Parcel A10  
18+57 to 18+68.35 L  
Temporary easement for Cut, sidewalk, & curb containing 45 sq ft, more or less

Parcel A11  
19+06 to 19+43 R  
Temporary easement for Cut, sidewalk, & curb containing 98 sq ft, more or less

Plot Scale - 1"=40'

Plotted From - trpr17196

File - U:\trpr\jamb02B\1018.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B12	B34

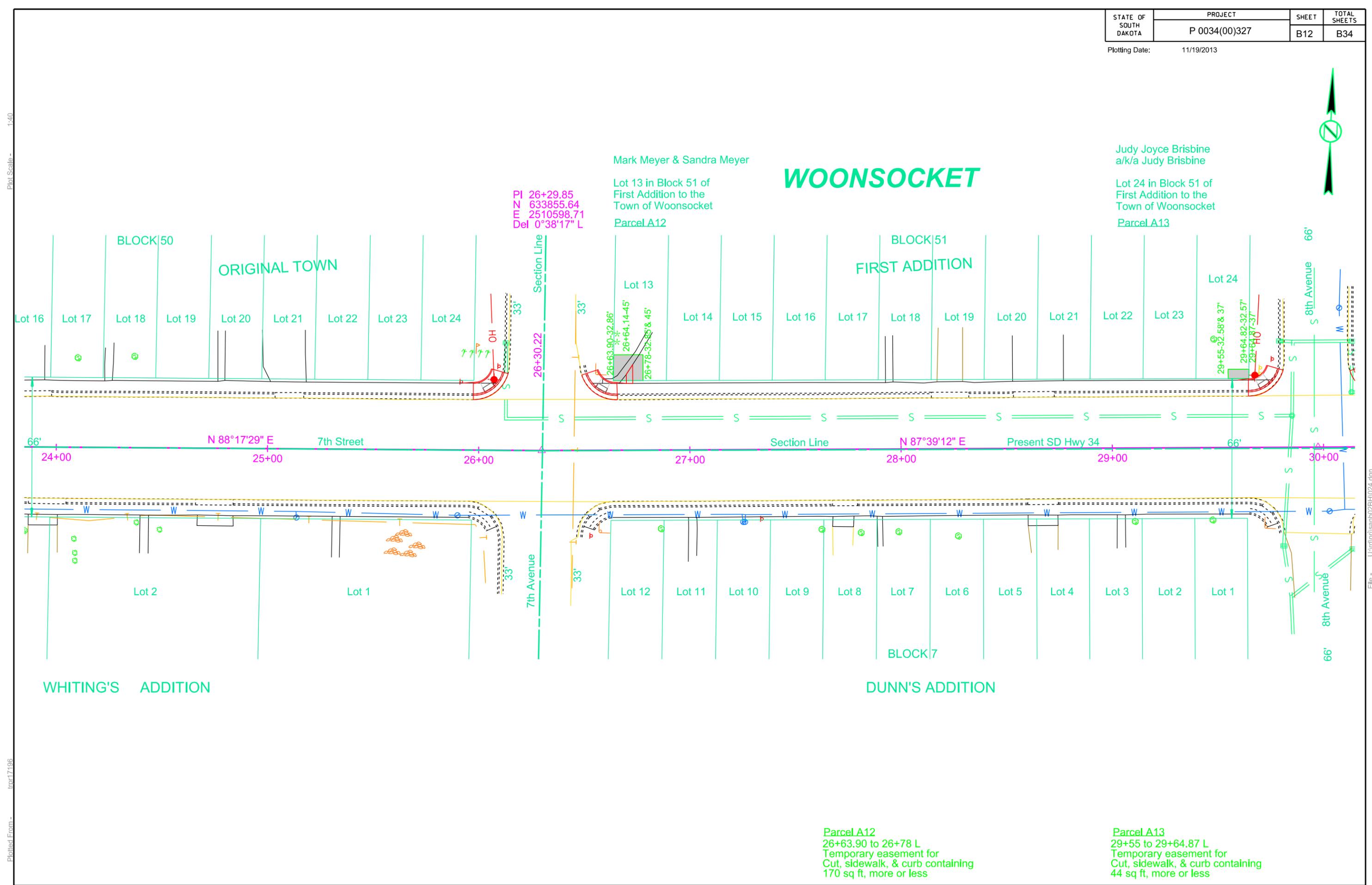
Plotting Date: 11/19/2013



Plot Scale - 1:40

Plotted From -

trpr17196



Mark Meyer & Sandra Meyer

# WOONSOCKET

Judy Joyce Brisbine  
a/k/a Judy Brisbine

Lot 24 in Block 51 of  
First Addition to the  
Town of Woonsocket

PI 26+29.85  
N 633855.64  
E 2510598.71  
Del 0°38'17" L

Lot 13 in Block 51 of  
First Addition to the  
Town of Woonsocket

Parcel A12

Parcel A13

Parcel A12  
26+63.90 to 26+78 L  
Temporary easement for  
Cut, sidewalk, & curb containing  
170 sq ft, more or less

Parcel A13  
29+55 to 29+64.87 L  
Temporary easement for  
Cut, sidewalk, & curb containing  
44 sq ft, more or less

File - U:\trproj\sbamb2\BH1024.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B13	B34

Plotting Date: 11/19/2013

# WOONSOCKET

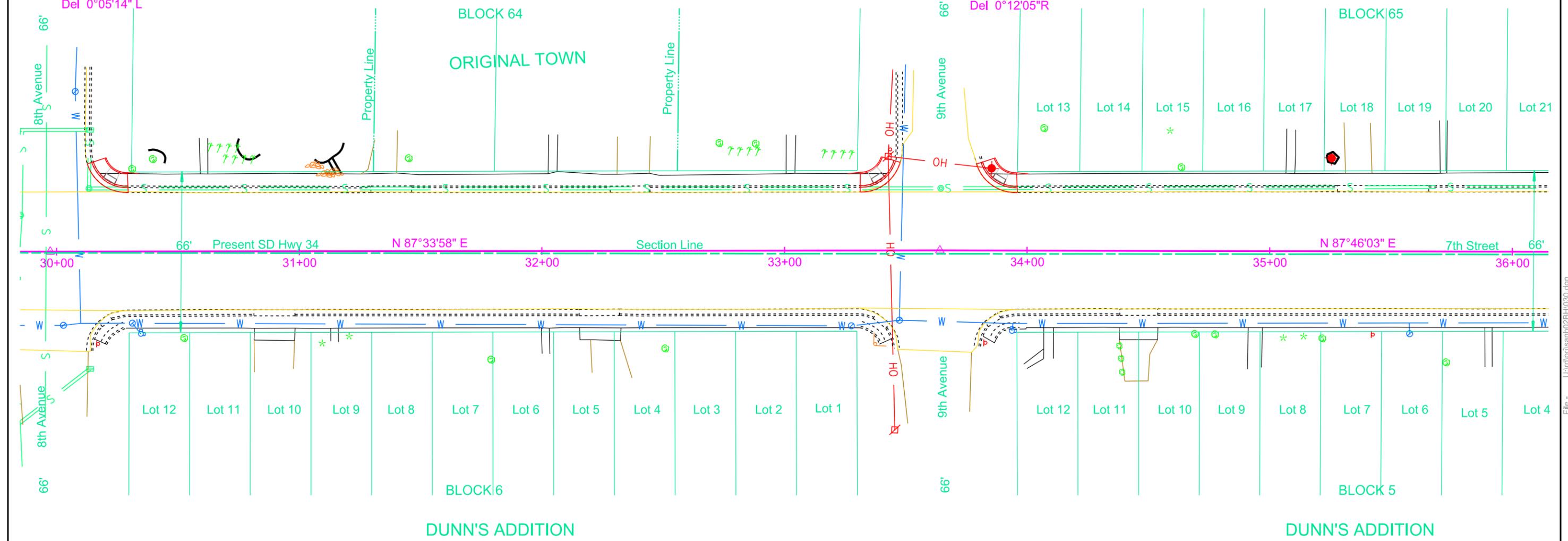
Plot Scale - 1:40

Plotted From - trpr17196



PI 29+97.38  
N 633870.69  
E 2510965.93  
Del 0°05'14" L

PI 33+64.03  
N 633886.26  
E 2511332.25  
Del 0°12'05" R



File - U:\trproj\sbamb2\BH1030.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B14	B34

Plotting Date: 11/19/2013

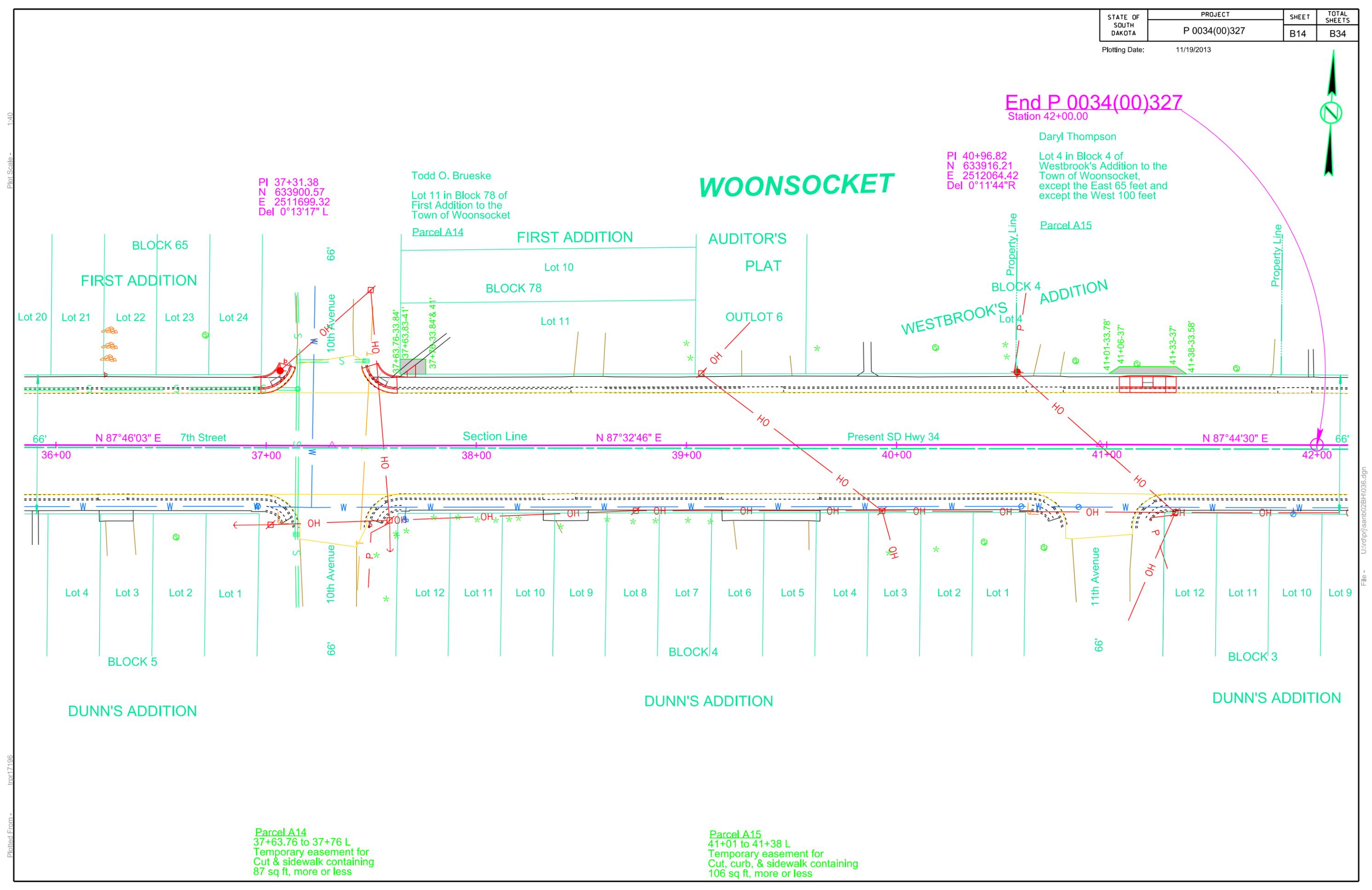


End P 0034(00)327  
Station 42+00.00

Daryl Thompson  
Lot 4 in Block 4 of Westbrook's Addition to the Town of Woonsocket, except the East 65 feet and except the West 100 feet

PI 40+96.82  
N 633916.21  
E 2512064.42  
Del 0°11'44"R

# WOONSOCKET



PI 37+31.38  
N 633900.57  
E 2511699.32  
Del 0°13'17" L

Todd O. Brueske  
Lot 11 in Block 78 of First Addition to the Town of Woonsocket

Parcel A15

Parcel A14  
37+63.76 to 37+76 L  
Temporary easement for Cut & sidewalk containing 87 sq ft, more or less

Parcel A15  
41+01 to 41+38 L  
Temporary easement for Cut, curb, & sidewalk containing 106 sq ft, more or less

Plot Scale - 1:40

Plotted From - trpr17196

File - U:\trproj\sbamb2\Bh1036.dgn

# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B15	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.



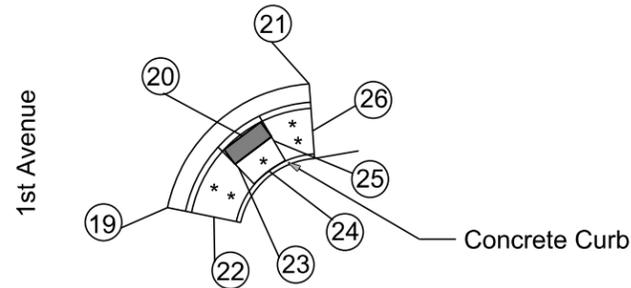
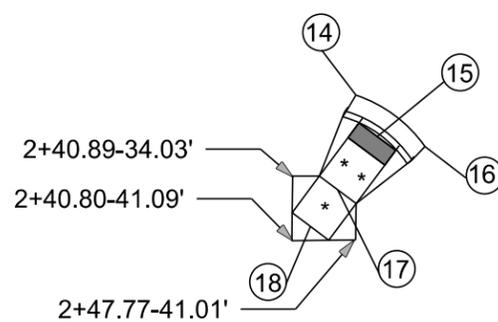
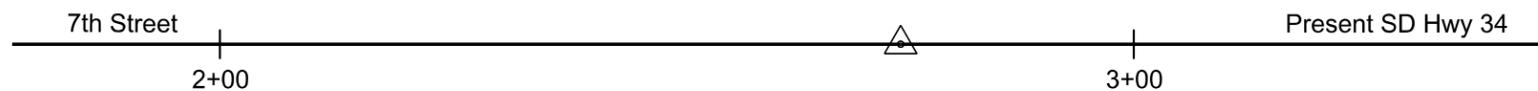
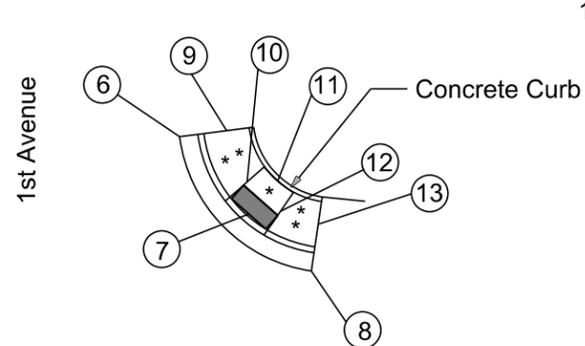
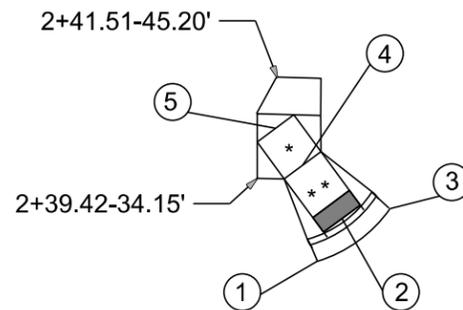
- 1 2+45.97-25.09'L  
Begin 15' Radius C & G  
TC Elev
- 2 2+48.69-29.76'L  
Center of Detectable Warning  
& Type 1 Curb Ramp
- 3 2+53.94-30.83'L  
End 15' Radius C & G  
TC Elev

- 4 2+44.39-35.59'L  
End Ramp Slope
- 5 2+41.42-39.61'L  
Back of Landing

- 6 2+91.44-38.71'L  
Begin 17' Radius C & G  
TC Elev
- 7 2+99-30.27'L  
Center of Detectable Warning  
& Type 3 Curb Ramp

- 8 3+05.85-24.04'L  
End 17' Radius C & G  
TC Elev
- 9 2+96.57-39.36'L  
Begin Ramp Slope
- 10 2+98.84-33.77'L  
End Ramp Slope

- 11 3+02.19-33.89'L  
Back of Landing
- 12 3+02.49-30.56'L  
Begin Ramp Slope
- 13 3+06.60-29.16'L  
End Ramp Slope



- 14 2+47.80-25.21'R  
Begin 15' Radius C & G  
TC Elev
- 15 2+50.16-29.74'R  
Center of Detectable Warning  
& Type 1 Curb Ramp
- 16 2+55.37-30.82'R  
End 15' Radius C & G  
TC Elev

- 17 2+45.82-35.54'R  
End Ramp Slope
- 18 2+42.83-39.55'R  
Back of Landing

- 19 2+87.39-37.48'R  
Begin 17' Radius C & G  
TC Elev
- 20 2+95.56-29.66'R  
Center of Detectable Warning  
& Type 3 Curb Ramp

- 21 3+02.88-23.98'R  
End 17' Radius C & G  
TC Elev
- 22 2+92.45-38.53'R  
Begin Ramp Slope
- 23 2+95.14-33.13'R  
End Ramp Slope

- 24 2+98.44-33.47'R  
Back of Landing
- 25 2+99.03-30.22'R  
Begin Ramp Slope
- 26 3+03.24-29.14'R  
End Ramp Slope

**LEGEND:**  
 \* Landing  
 \*\* Ramp slopes with 8.3% max slope  
 \*\*\* Sidewalk with 5% max long slope  
 Detectable Warning Surface

Plot Scale - 1:20

Plotted From - imprt17196

File - U:\rtp\jlsamb02BH1002cr.dgn

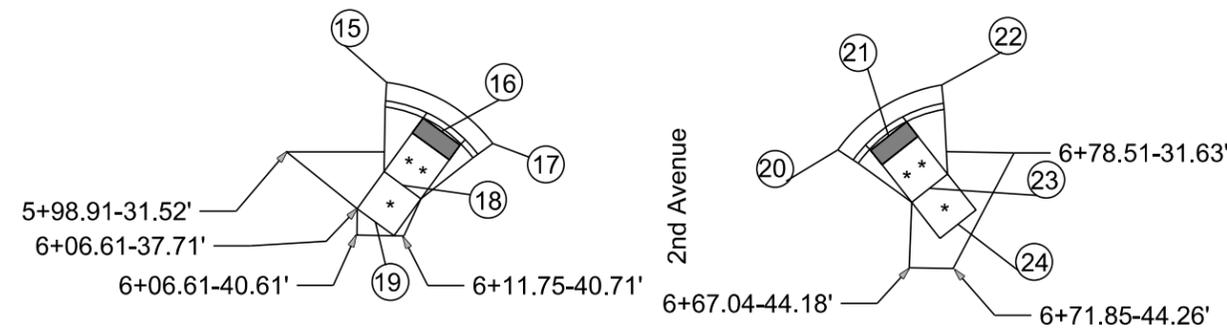
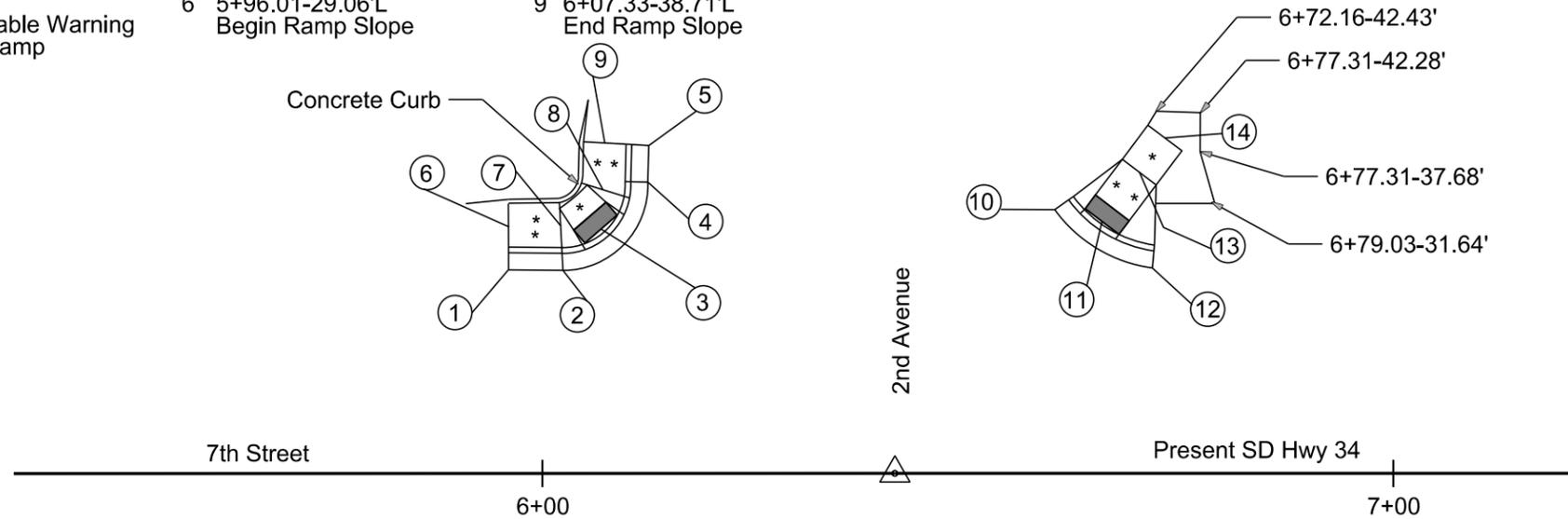
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B16	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |   |                                       |  |   |                                       |
|--|---|---------------------------------------|--|---|---------------------------------------|
| 1 5+96.23-23.84'L<br>Brgin Str C & G<br>TC Elev                          | 4 6+12.39-34.13'L<br>End 10' Radius C & G<br>Begin Str C & G<br>TC Elev | 7 6+02.13-29.08'L<br>End Ramp Slope   | 10 6+60.20-30.91'L<br>Begin 17' Radius C & G<br>TC Elev                  | 12 6+71.69-24.07'L<br>End 17' Radius C & G<br>TC Elev | 14 6+73.15-39.29'L<br>Back of Landing |
| 2 6+02.41-23.79'L<br>Ends Str C & G<br>Begin 10' Radius C & G<br>TC Elev | 5 6+12.49-38.42'L<br>End Str C & G<br>TC Elev                           | 8 6+07.10-33.24'L<br>Begin Ramp Slope | 11 6+65.77-29.52'L<br>Center of Detectable Warning<br>& Type 2 Curb Ramp | 13 6+70.14-35.30'L<br>End Ramp Slope                  |                                       |
| 3 6+06.88-28.63'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp  | 6 5+96.01-29.06'L<br>Begin Ramp Slope                                   | 9 6+07.33-38.71'L<br>End Ramp Slope   |  |   |                                       |



- |  |                                       |  |                                       |
|--|---------------------------------------|--|---------------------------------------|
| 15 6+09.87-23.95'R<br>Begin 17' Radius C & G<br>TC Elev                  | 18 6+11.59-35.15'R<br>End Ramp Slope  | 20 6+59.25-31.30'R<br>Begin 17' Radius C & G<br>TC Elev                  | 23 6+69.28-35.49'R<br>End Ramp Slope  |
| 16 6+15.87-29.30'R<br>Center of Detectable Warning<br>& Type 2 Curb Ramp | 19 6+08.64-39.19'R<br>Back of Landing | 21 6+64.79-29.80'R<br>Center of Detectable Warning<br>& Type 2 Curb Ramp | 24 6+72.38-39.41'R<br>Back of Landing |
| 17 6+21.47-30.61'R<br>End 17' Radius C & G<br>TC Elev                    |                                       | 22 6+70.59-24.23'R<br>End 17' Radius C & G<br>TC Elev                    |                                       |

**LEGEND:**  
 \* Landing  
 \*\* Ramp slopes with 8.3% max slope  
 \*\*\* Sidewalk with 5% max long slope  
 ■ Detectable Warning Surface

Plot Scale - 1:20

Plotted From - 11/17/196

File - U:\proj\sbmb02BH1006cr.dgn

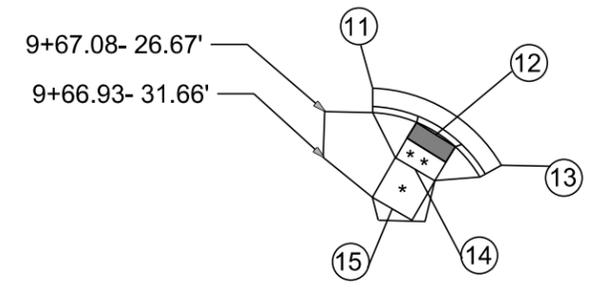
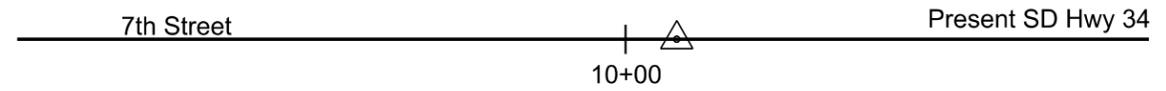
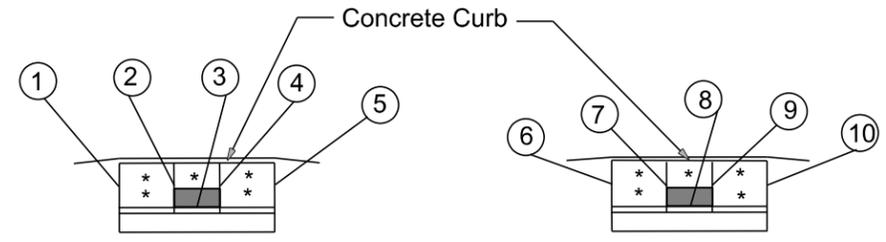
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B17	B34

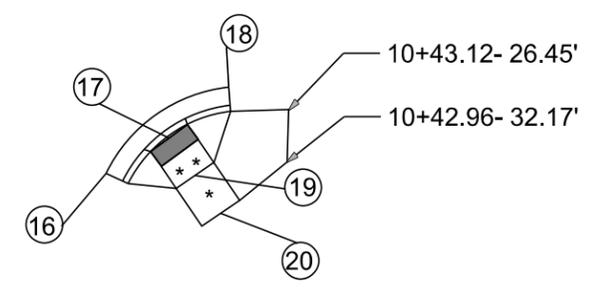
Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |                                       |   |  |  |  |
|---------------------------------------|---|--|--|--|
| 1 9+73.49-29.16'L<br>Begin Ramp Slope | 3 9+82.01-26.77'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 9+90.49-29.17'L<br>End Ramp Slope    | 7 10+33.39-29.27'L<br>End Ramp Slope                                     | 9 10+38.39-29.28'L<br>Begin Ramp Slope |
| 2 9+79.49-29.16'L<br>End Ramp Slope   | 4 9+84.49-29.16'L<br>Begin Ramp Slope                                   | 6 10+27.39-29.35'L<br>Begin Ramp Slope | 8 10+35.91-26.88'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 10 10+44.39-29.35'L<br>End Ramp Slope  |



3rd Avenue



- |  |  |                                      |                                       |   |   |   |                                       |  |
|--|--|--------------------------------------|---------------------------------------|---|---|---|---------------------------------------|--|
| 11 9+72.33-24.11'R<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 13 9+86.42-32.53'R<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 14 9+76.99-32.96'R<br>End Ramp Slope | 15 9+74.47-37.28'R<br>Back of Landing | 16 10+23.15-33.41'R<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 17 10+30.04-29.55'R<br>Center of Detectable Warning<br>& Type 1 Curb Ramp | 18 10+36.59-23.99'R<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 19 10+32.89-33.64'R<br>End Ramp Slope | 20 10+35.71-37.77'R<br>Back of Landing |
|--|--|--------------------------------------|---------------------------------------|---|---|---|---------------------------------------|--|

**LEGEND:**  
 \* Landing  
 \*\* Ramp slopes with 8.3% max slope  
 \*\*\* Sidewalk with 5% max long slope  
 ■ Detectable Warning Surface

Plot Scale - 1:20

Plotted From - 10/17/196

File - U:\proj\sbamb02BH1010cr.dgn

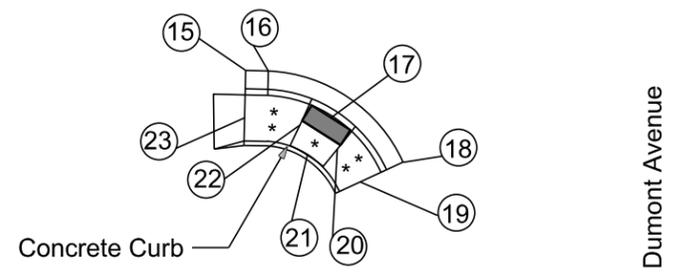
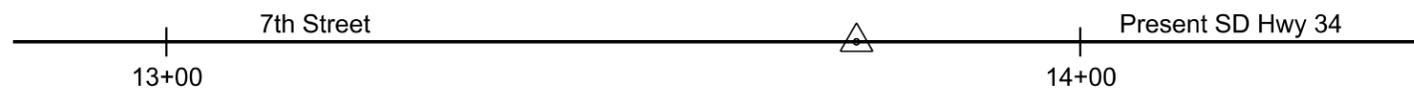
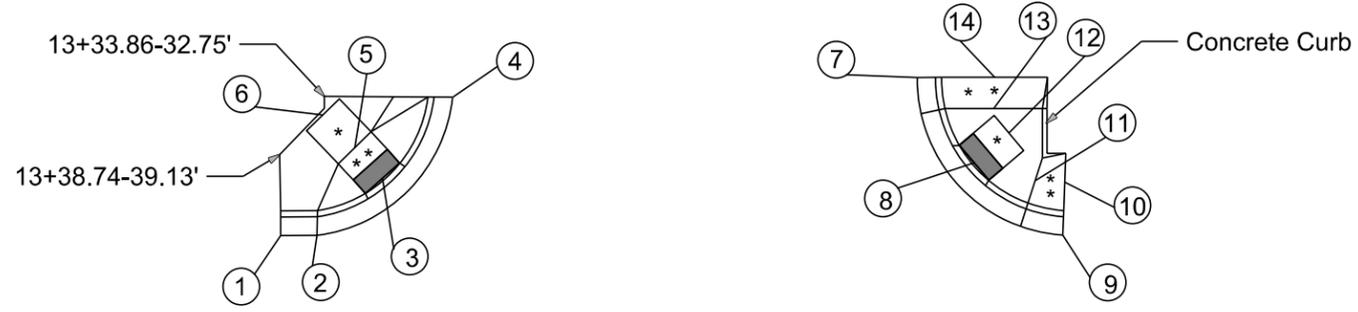
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B18	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |   |   |
|--|--|--|---|---|
| 1 13+33.95-23.94'L<br>Begin Str C & G<br>TC Elev (Match Existing)        | 4 13+52.76-39.03'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 7 14+03.62-41.20'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 14+19.76-29.77'L<br>Begin Ramp Slope | 13 14+12.08-41.20'L<br>Begin Ramp Slope |
| 2 13+36.64-24.15'L<br>End Str C & G<br>Begin 17' Radius C & G<br>TC Elev | 5 13+42.06-33.52'L<br>End Ramp Slope                                   | 8 14+09.84-31.88'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 14+16.52-29.94'L<br>End Ramp Slope   | 14 14+11.97-37.80'L<br>End Ramp Slope   |
| 3 13+45.10-30.18'L<br>Center of Detectable Warning<br>& Type 2 Curb Ramp | 6 13+38.58-37.11'L<br>Back of Landing                                  | 9 14+19.55-23.98'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)   | 12 14+13.64-35.13'L<br>Back of Landing  |   |



- |   |   |   |
|---|---|---|
| 15 13+34.06-29.26'R<br>Begin Str C & G<br>TC Elev (Match Existing)        | 18 13+51.42-34.13'R<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 21 13+40.92-33.32'R<br>Back of Landing  |
| 16 13+36.64-24.15'R<br>End Str C & G<br>Begin 17' Radius C & G<br>TC Elev | 19 13+46.71-36.26'R<br>Begin Ramp Slope                                 | 22 13+40.10-30.07'R<br>Begin Ramp Slope |
| 17 13+43.51-29.24'R<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 20 13+44.20-32.68'R<br>End Ramp Slope                                   | 23 13+34.17-24.10'R<br>End Ramp Slope   |

**LEGEND:**  
 \* Landing  
 \*\* Ramp slopes with 8.3% max slope  
 \*\*\* Sidewalk with 5% max long slope  
 Detectable Warning Surface

Plot Scale: 1:20

Plotted From: tps17.rdg

File - U:\rdp\jlsamb02BH1013cr.dgn

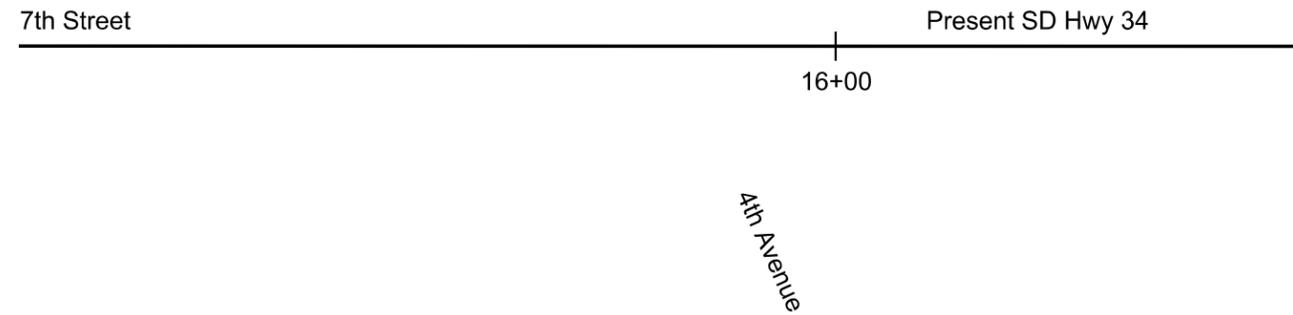
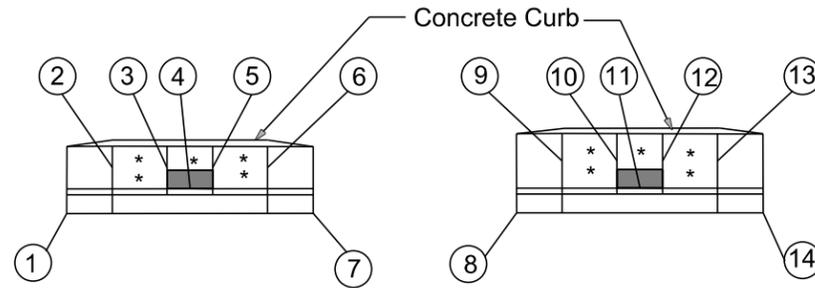
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B19	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |   |  |   |   |  |
|---|--|---|---|--|
| 1 15+48.77-23.97'L<br>Begin Str C & G<br>TC Elev (Match Existing) | 4 15+62.29-26.71'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 7 15+75.78-23.98'L<br>End Str C & G<br>TC Elev (Match Existing)   | 10 16+09.01-29.73'L<br>End Ramp Slope                                     | 13 16+20.01-29.71'L<br>End Ramp Slope                            |
| 2 15+53.77-28.99'L<br>Begin Ramp Slope                            | 5 15+64.77-28.98'L<br>Begin Ramp Slope                                   | 8 15+98.01-24.05'L<br>Begin Str C & G<br>TC Elev (Match Existing) | 11 16+11.52-26.78'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 14 16+25.02-24.06'L<br>End Str C & G<br>TC Elev (Match Existing) |
| 3 15+59.77-28.99'L<br>End Ramp Slope                              | 6 15+70.77-28.98'L<br>End Ramp Slope                                     | 9 16+03.01-29.73'L<br>Begin Ramp Slope                            | 12 16+14.01-29.72'L<br>Begin Ramp Slope                                   |  |



- LEGEND:**
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

Plot Scale - 1:20

Plotted From - tpr17196

File - U:\trproj\sbmb02BH1016cr.dgn

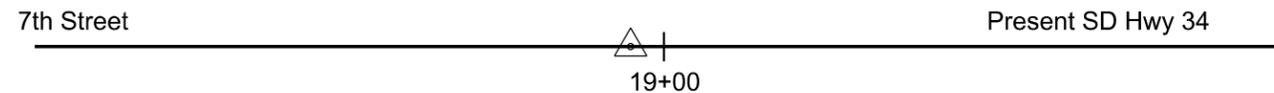
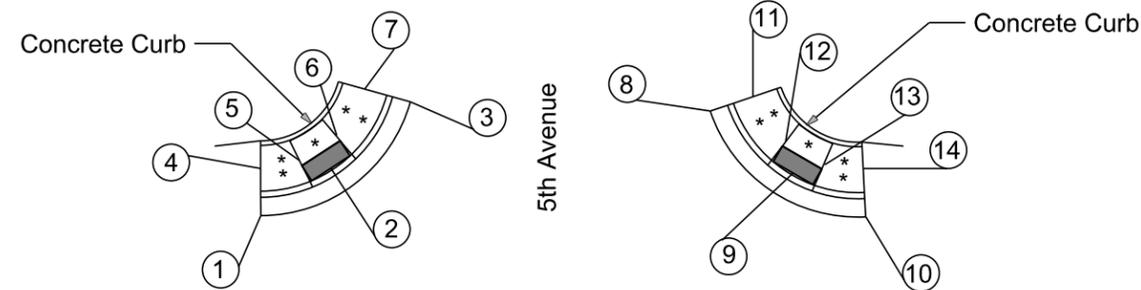
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B20	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |  |   |   |
|--|--|--|--|---|---|
| 1 18+67.37-24.01'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 4 18+67.34-29.18'L<br>Begin Ramp Slope | 6 18+75.70-32.62'L<br>Begin Ramp Slope | 8 19+16.56-35.44'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 19+33.61-23.89'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 12 19+24.78-32.05'L<br>End Ramp Slope   |
| 2 18+75.04-29.18'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 18+71.63-29.98'L<br>End Ramp Slope   | 7 18+78.75-37.81'L<br>End Ramp Slope   | 9 19+25.43-28.76'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 19+21.46-37.08'L<br>Begin Ramp Slope                                 | 13 19+29.00-29.62'L<br>Begin Ramp Slope |
| 3 118+83.74-36.44'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)  |  |  |  |   | 14 19+33.31-29.05'L<br>End Ramp Slope   |



- |  |   |  |
|--|---|--|
| 14 19+11.02-24.01'R<br>Begin Str C & G<br>TC Elev (Match Existing) | 17 19+24.52-26.71'R<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 19 19+33.03-29.23'R<br>End Ramp Slope                            |
| 15 19+16.03-29.22'R<br>Begin Ramp Slope                            | 18 119+27.03-29.23'R<br>Begin Curb Ramp                                   | 20 19+38.02-24.00'R<br>End Str C & G<br>TC Elev (Match Existing) |
| 16 19+22.03-29.23'R<br>End Ramp Slope                              |   |  |

- LEGEND:
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface



Plot Scale - 1:20

Plotted From - tpr17196

File - U:\trp\proj\sbmb02BH1019cr.dgn

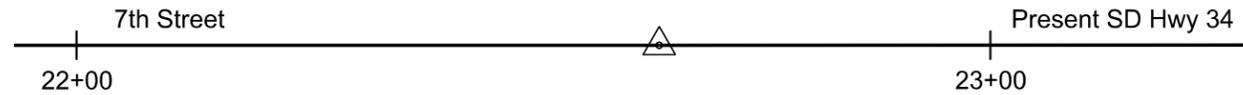
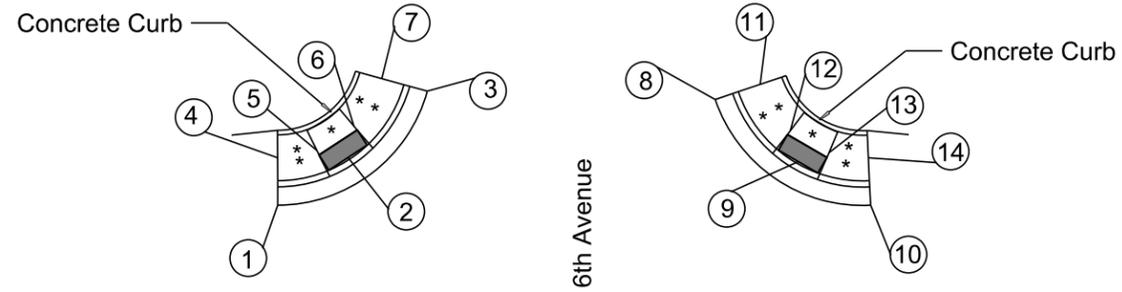
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B21	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |  |   |  |
|--|--|--|--|---|--|
| 1 22+33.53-23.93'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 4 22+33.52-29.10'L<br>Begin Ramp Slope | 6 22+41.86-32.54'L<br>Begin Ramp Slope | 8 22+81.42-35.45'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 22+98.41-23.89'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 12 22+89.64-32.06'L<br>End Ramp Slope  |
| 2 22+41.20-29.10'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 22+37.78-29.90'L<br>End Ramp Slope   | 7 22+44.91-37.75'L<br>End Ramp Slope   | 9 22+90.48-28.66'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 22+86.32-37.10'L<br>Begin Ramp Slope                                 | 13 22+93.85-29.63'L<br>Begin Curb Ramp |
| 3 22+49.89-36.36'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)   |  |  |  |   | 14 22+98.15-29.06'L<br>End Ramp Slope  |



- LEGEND:**
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

Plot Scale - 1:20

Plotted From - tpr17196

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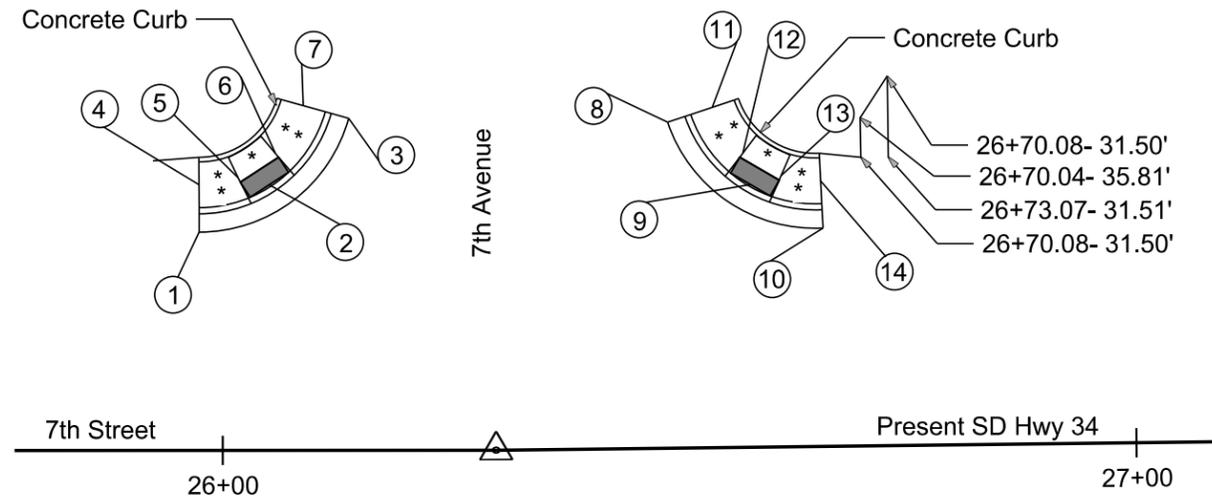
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B22	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |  |   |   |
|--|--|--|--|---|---|
| 1 25+97.31-23.81'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 4 25+97.29-28.98'L<br>Begin Ramp Slope | 6 26+05.64-32.42'L<br>Begin Ramp Slope | 8 26+48.97-35.58'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 26+65.83-23.83'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 12 26+57.15-32.10'L<br>End Curb Ramp    |
| 2 26+04.98-28.98'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 26+01.57-29.77'L<br>End Ramp Slope   | 7 26+08.70-37.62'L<br>End Ramp Slope   | 9 26+57.95-28.68'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 26+53.89-37.17'L<br>Begin Ramp Slope                                 | 13 26+61.33-29.62'L<br>Begin Ramp Slope |
| 3 26+13.68-36.23'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)   |  |  |  |   | 14 26+65.63-29.00'L<br>End Ramp Slope   |



- LEGEND:**
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

Plot Scale - 1:20

Plotted From - 11/17/13

File - U:\proj\13amb02BH1026cr.dgn

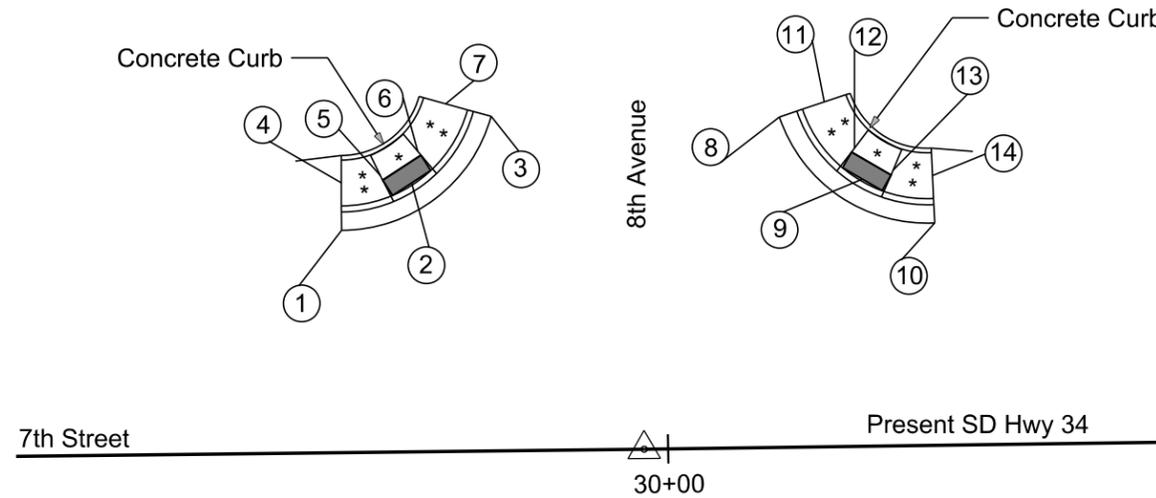
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B23	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |  |   |   |
|--|--|--|--|---|---|
| 1 29+64.54-24.28'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 4 29+64.59-29.45'L<br>Begin Ramp Slope | 6 29+72.98-32.79'L<br>Begin Ramp Slope | 8 30+12.66-36.06'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 30+29.50-24.28'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 12 30+20.83-32.56'L<br>End Ramp Slope   |
| 2 29+72.27-29.36'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 29+68.87-30.19'L<br>End Ramp Slope   | 7 29+76.09-37.96'L<br>End Ramp Slope   | 9 30+21.63-29.15'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 30+17.58-37.64'L<br>Begin Ramp Slope                                 | 13 30+25.01-30.07'L<br>Begin Ramp Slope |
| 3 29+81.05-36.52'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)   |  |  |  |   | 14 30+29.31-29.45'L<br>End Ramp Slope   |



- LEGEND:**
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

Plot Scale - 1:20

Plotted From - 10/17/196

File - U:\proj\sbmb02BH1030cr.dgn

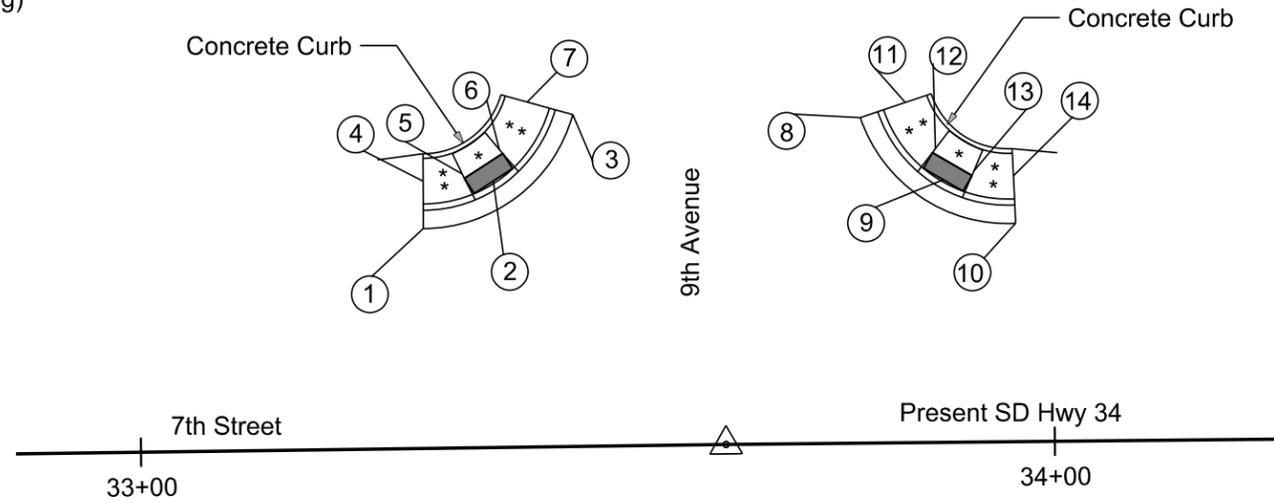
# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B24	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

- |  |  |  |  |   |   |
|--|--|--|--|---|---|
| 1 33+31.21-24.01'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 4 33+31.26-29.18'L<br>Begin Ramp Slope | 6 33+39.65-32.51'L<br>Begin Ramp Slope | 8 33+79.06-35.55'L<br>Begin 17' Radius C & G<br>TC Elev (Match Existing) | 10 33+95.95-23.83'L<br>End 17' Radius C & G<br>TC Elev (Match Existing) | 12 33+87.25-32.08'L<br>End Ramp Slope   |
| 2 33+38.95-29.08'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 5 33+35.54-29.92'L<br>End Ramp Slope   | 7 33+42.77-37.68'L<br>End Ramp Slope   | 9 33+88.06-28.67'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 11 33+83.98-37.15'L<br>Begin Ramp Slope                                 | 13 33+91.44-29.61'L<br>Begin Ramp Slope |
| 3 33+47.73-36.23'L<br>End 17' Radius C & G<br>TC Elev (Match Existing)   |  |  |  |   | 14 33+95.74-29.00'L<br>End Ramp Slope   |



- LEGEND:
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

Plot Scale - 1:20

Plotted From - tpr17196

File - U:\rtp\jlsamb02BH1033cr.dgn

# CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B25	B34

Plotting Date: 11/19/2013

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 36+97.42-24.78'L  
Begin 17' Radius C & G  
TC Elev (Match Existing)

4 36+97.46-29.95'L  
Begin Ramp Slope

6 37+05.84-33.32'L  
Begin Ramp Slope

8 37+45.66-36.66'L  
Begin 17' Radius C & G  
TC Elev (Match Existing)

10 37+62.50-24.89'L  
End 17' Radius C & G  
TC Elev (Match Existing)

12 37+53.83-33.16'L  
End Ramp Slope

2 37+05.14-29.88'L  
Center of Detectable Warning  
& Type 3 Curb Ramp

5 37+01.73-30.71'L  
End Ramp Slope

7 37+08.94-38.49'L  
End Ramp Slope

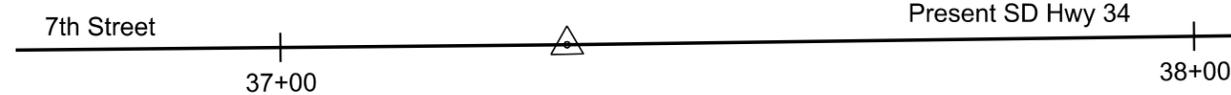
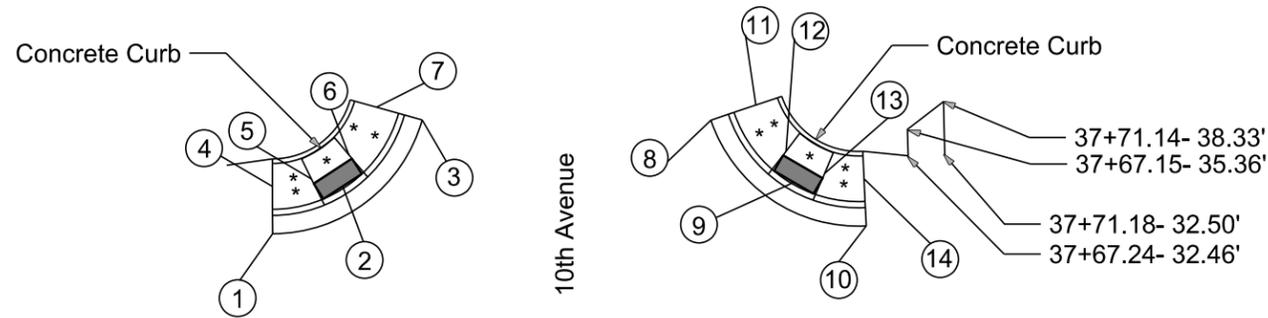
9 37+54.63-29.75'L  
Center of Detectable Warning  
& Type 3 Curb Ramp

11 37+50.58-38.24'L  
Begin Ramp Slope

13 37+58.01-30.68'L  
Begin Ramp Slope

3 37+13.91-37.06'L  
End 17' Radius C & G  
TC Elev (Match Existing)

14 37+62.31-30.05'L  
End Ramp Slope



- LEGEND:**
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

# CURB RAMP DETAILS

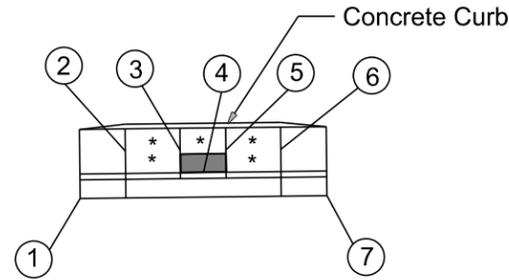
Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B26	B34

Plotting Date: 11/19/2013



- |   |  |   |
|---|--|---|
| 1 41+05.99-24.71'L<br>Begin Str C & G<br>TC Elev (Match Existing) | 4 41+19.50-27.47'L<br>Center of Detectable Warning<br>& Type 3 Curb Ramp | 6 41+27.98-29.87'L<br>End Ramp Slope                            |
| 2 41+10.98-29.85'L<br>Begin Ramp Slope                            | 5 41+21.98-29.86'L<br>Begin Ramp Slope                                   | 7 41+32.99-24.77'L<br>End Str C & G<br>TC Elev (Match Existing) |
| 3 41+16.98-29.86'L<br>End Ramp Slope                              |  |   |



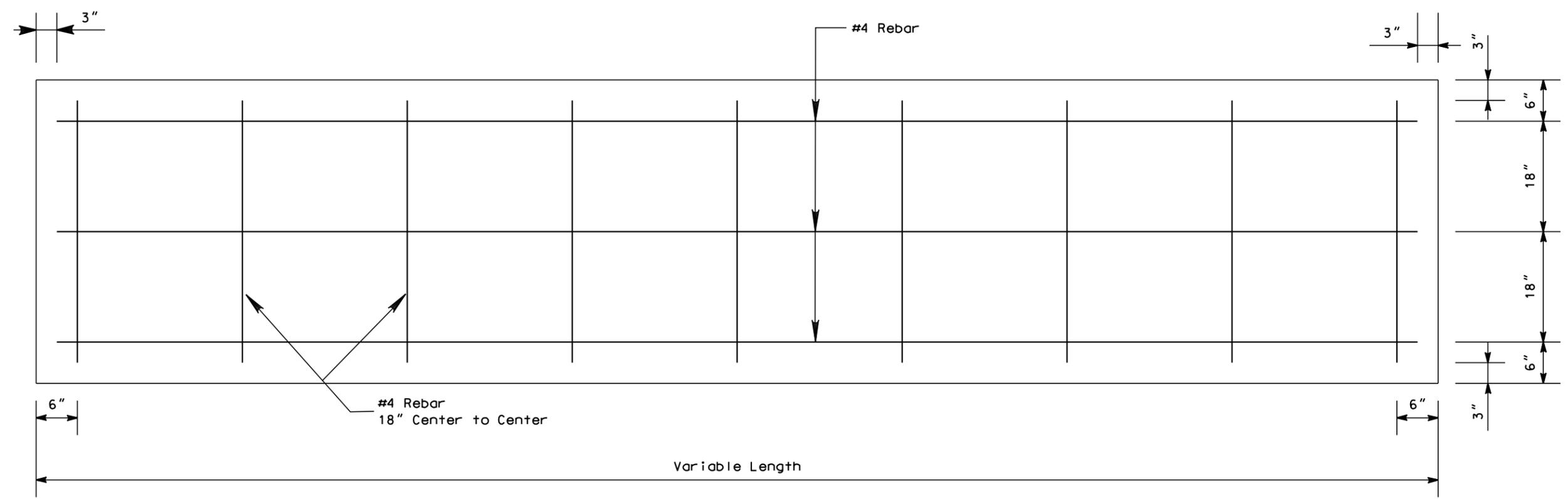
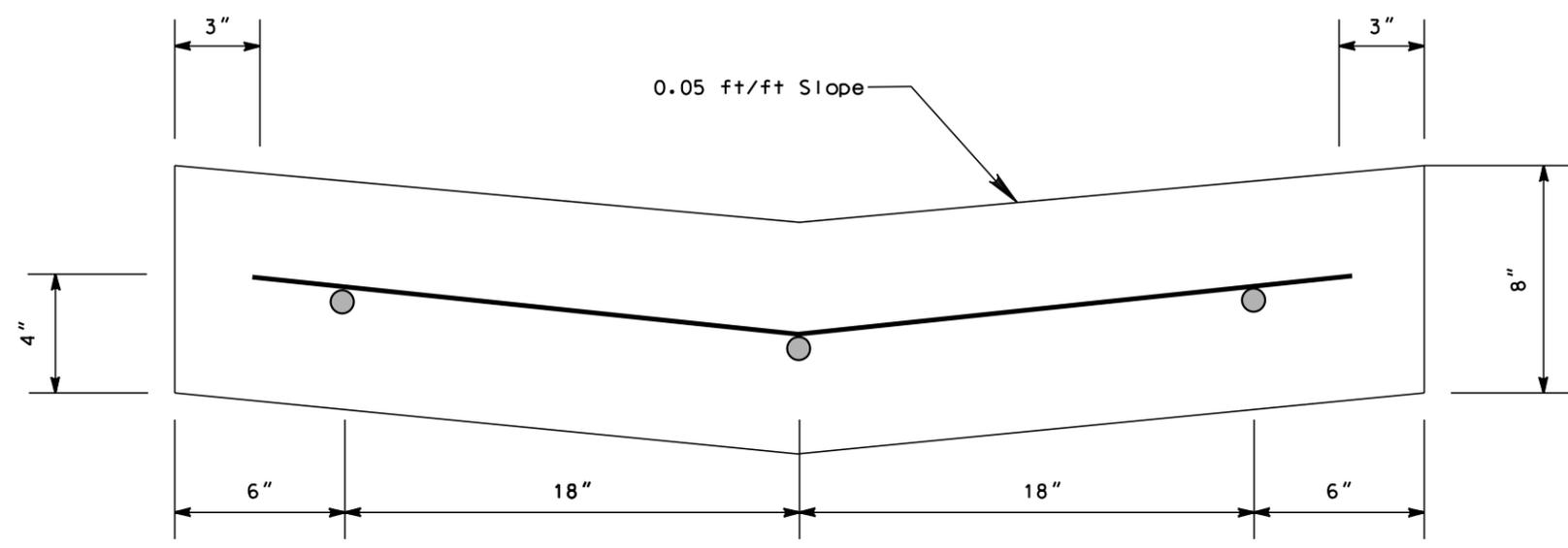
- LEGEND:
- \* Landing
  - \*\* Ramp slopes with 8.3% max slope
  - \*\*\* Sidewalk with 5% max long slope
  - Detectable Warning Surface

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	B27	B34

Plotting Date: 11/19/2013

# VALLEY GUTTER DETAIL

NOT TO SCALE

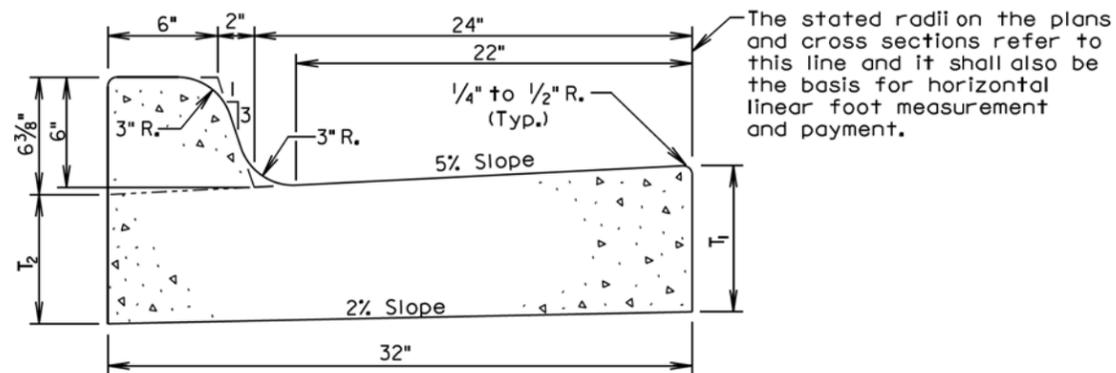


PLOT SCALE - 1:20

PLOTTED FROM - ITRP17196

PLOT NAME - 24

FILE - ... \SANB02BH\VALLEYGUTTERDTL.DGN



Type	T <sub>1</sub> (Inches)	T <sub>2</sub> (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B66	6	5/16	0.057	17.7
B67	7	6/16	0.065	15.4
B68	8	7/16	0.073	13.7
B68.5	8.5	7 9/16	0.077	13.0
B69	9	8/16	0.081	12.3
B69.5	9.5	8 9/16	0.085	11.7
B610	10	9/16	0.090	11.2
B610.5	10.5	9 9/16	0.094	10.7
B611	11	10/16	0.098	10.2
B611.5	11.5	10 9/16	0.102	9.8
B612	12	11/16	0.106	9.4

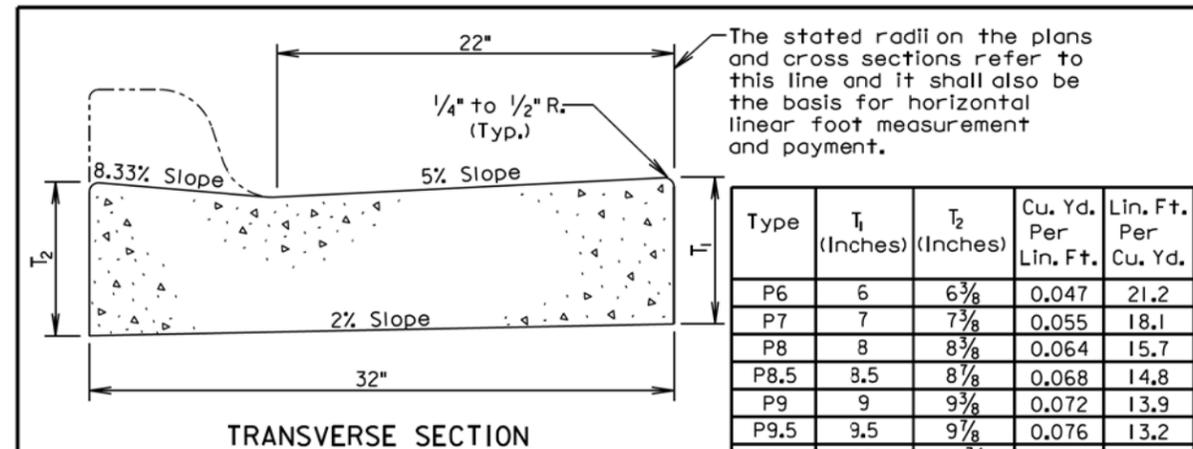
**GENERAL NOTES:**

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

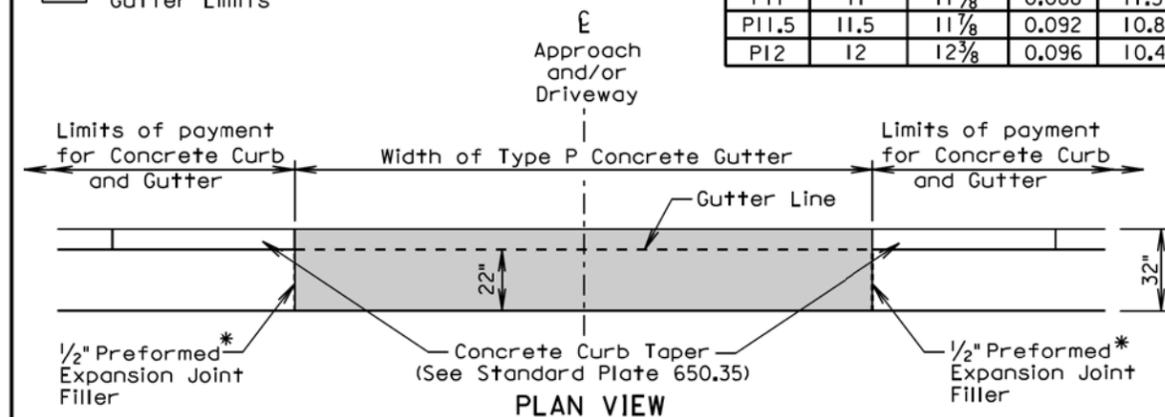
September 6, 2008

<b>S D D O T</b>	<b>TYPE B CONCRETE CURB AND GUTTER</b>	PLATE NUMBER <b>650.01</b>
	Published Date: 4th Qtr. 2013	Sheet 1 of 1


**TRANSVERSE SECTION**

 Type P Concrete  
Gutter Limits

Type	T <sub>1</sub> (Inches)	T <sub>2</sub> (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
P6	6	6 3/8	0.047	21.2
P7	7	7 3/8	0.055	18.1
P8	8	8 3/8	0.064	15.7
P8.5	8.5	8 7/8	0.068	14.8
P9	9	9 3/8	0.072	13.9
P9.5	9.5	9 7/8	0.076	13.2
P10	10	10 3/8	0.080	12.5
P10.5	10.5	10 7/8	0.084	11.9
P11	11	11 3/8	0.088	11.3
P11.5	11.5	11 7/8	0.092	10.8
P12	12	12 3/8	0.096	10.4


**PLAN VIEW**

\* Joint will not be needed if concrete curb and gutter and type P concrete gutter is placed at the same time. If the 1/2" Preformed Expansion Joint Filler is provided, then the joint shall be sealed in accordance with standard plate 650.90.

**GENERAL NOTES:**

The concrete for the Type P Concrete Gutter shall comply with the requirements of the Standard Specifications for Class M6 Concrete.

When concrete gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

Transverse contraction joints shall be constructed at 10' intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint shall be constructed in the concrete gutter at each mainline PCC pavement transverse contraction joint location.

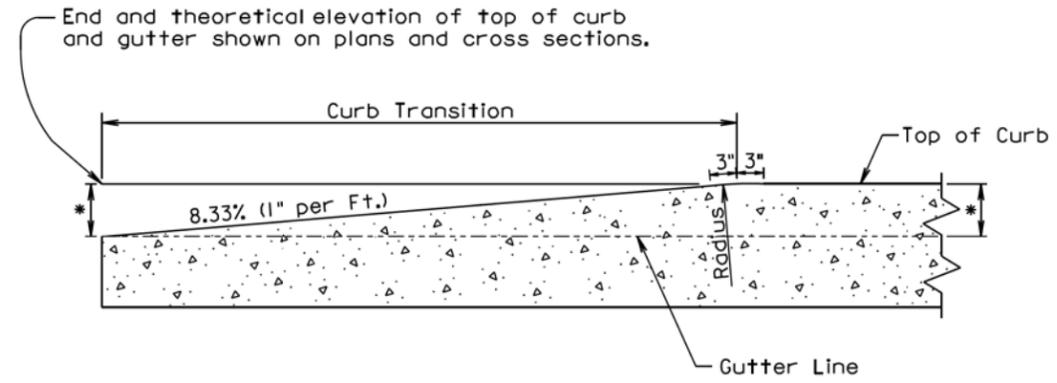
When concrete gutter is placed monolithically with mainline PCC pavement, the transverse contraction joints in the concrete gutter shall be sawed and sealed the same as the transverse contraction joints in the mainline PCC pavement.

When concrete gutter is not placed monolithically with the mainline PCC pavement and when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete gutter shall be 1 1/2 inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least 1/4 the thickness of the concrete.

September 6, 2013

<b>S D D O T</b>	<b>TYPE P CONCRETE GUTTER</b>	PLATE NUMBER <b>650.30</b>
	Published Date: 4th Qtr. 2013	Sheet 1 of 1

Plot Scale - 1:200



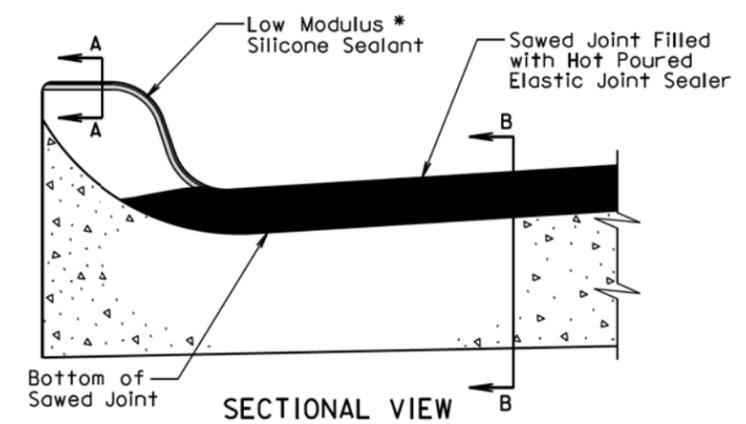
\* Height of Curb

LONGITUDINAL SECTION OF CONCRETE CURB TAPER

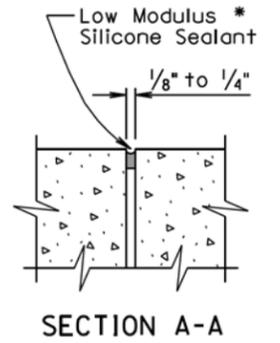
September 14, 2005

<b>S D D O T</b>	<b>CONCRETE CURB TAPER</b>	PLATE NUMBER 650.35
		Sheet 1 of 1

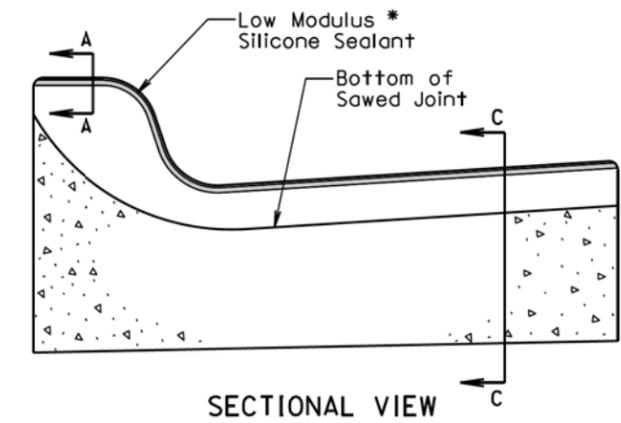
Published Date: 4th Qtr. 2013



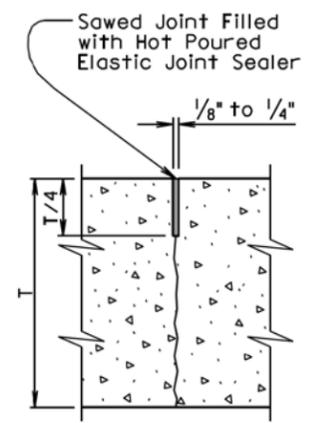
SECTIONAL VIEW  
(Curb and Gutter Placed Monolithic with Adjacent Mainline PCC Pavement)



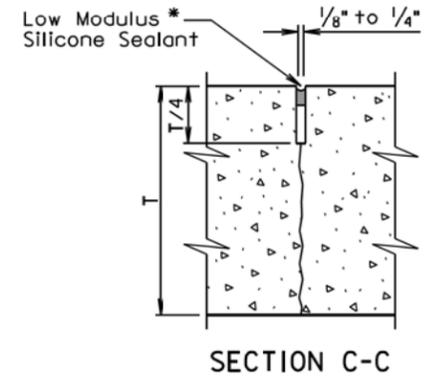
SECTION A-A



SECTIONAL VIEW  
(Curb and Gutter not Placed Monolithic with Adjacent Mainline PCC Pavement or Mainline Surfacing is not PCC Pavement)



SECTION B-B



SECTION C-C

\* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

September 6, 2013

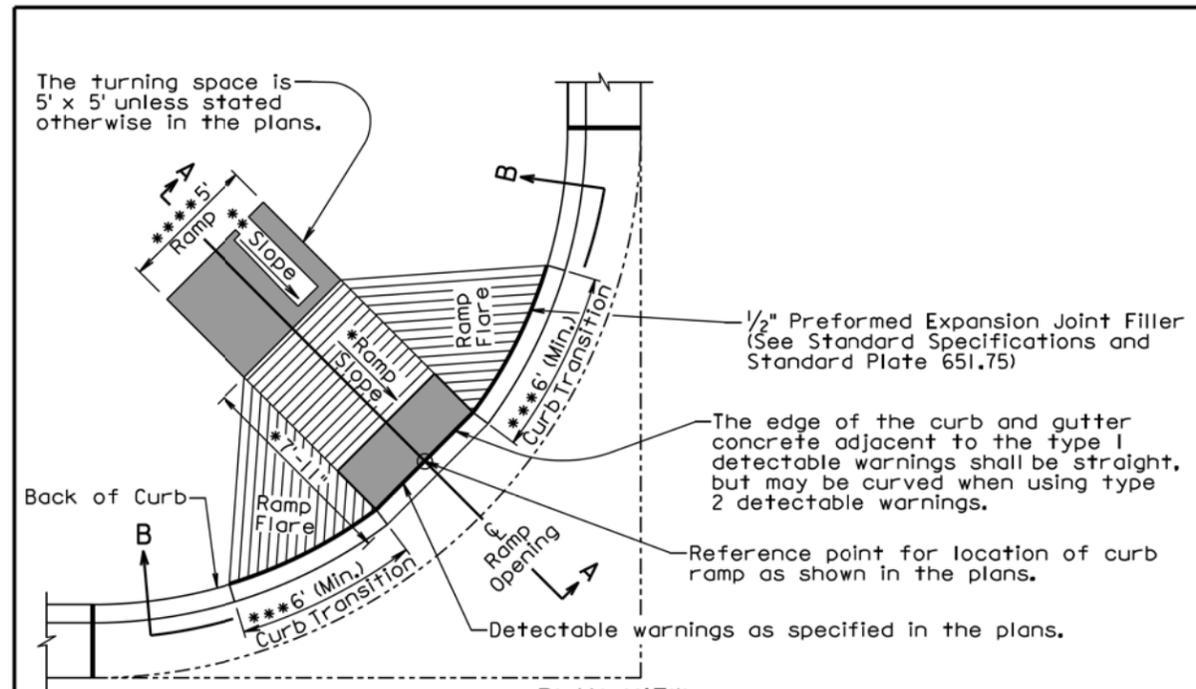
<b>S D D O T</b>	<b>JOINTS IN CONCRETE CURB AND GUTTER</b>	PLATE NUMBER 650.90
		Sheet 1 of 2

Published Date: 4th Qtr. 2013

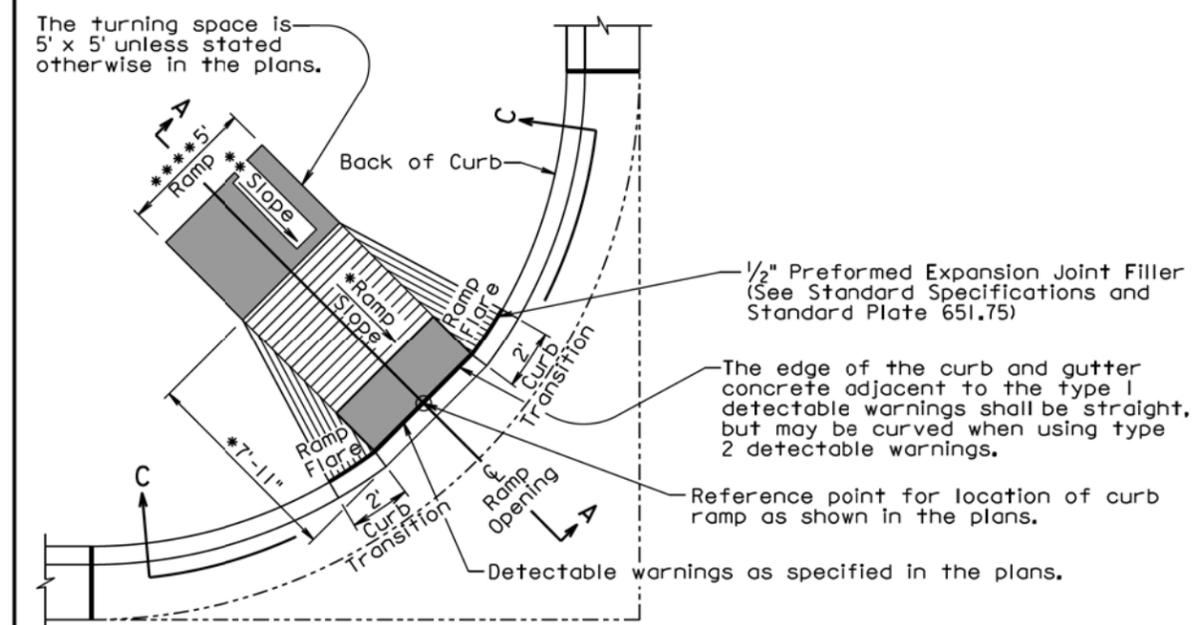
- Plotted From - tpr17196

File - ...apj\amb02BH\65035656090.dgn

Plot Scale - 1:200



**PLAN VIEW**  
(With 6'+ Curb Transition)



**PLAN VIEW**  
(With 2' Curb Transition)

September 6, 2013

<b>SD DOT</b>  Published Date: 4th Qtr. 2013	<b>TYPE 1 CURB RAMP</b> <b>(PERPENDICULAR CURB RAMP)</b>	<b>PLATE NUMBER</b> 65I.01
		Sheet 1 of 3

- Plotted From - trpr17196

File - ...apri\amb02B\blank65101\_1.dgn

The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.

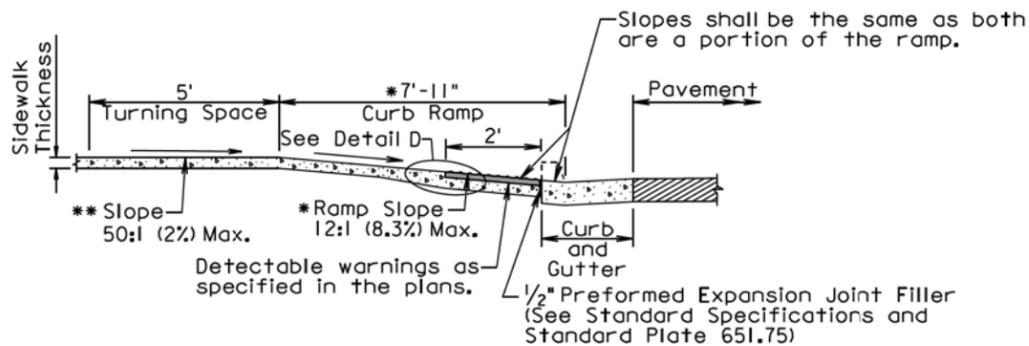
\* The cross slope of the ramp shall not be steeper than 50:1 (2%).

The 7'-11" dimension was computed based on a flat roadway profile, a continuous 2% theoretical slope from top of theoretical curb to the top of ramp, and a 6" high curb. The dimension shall be adjusted based on the curb type shown in the plans, the roadway geometrics, and the sidewalk geometrics.

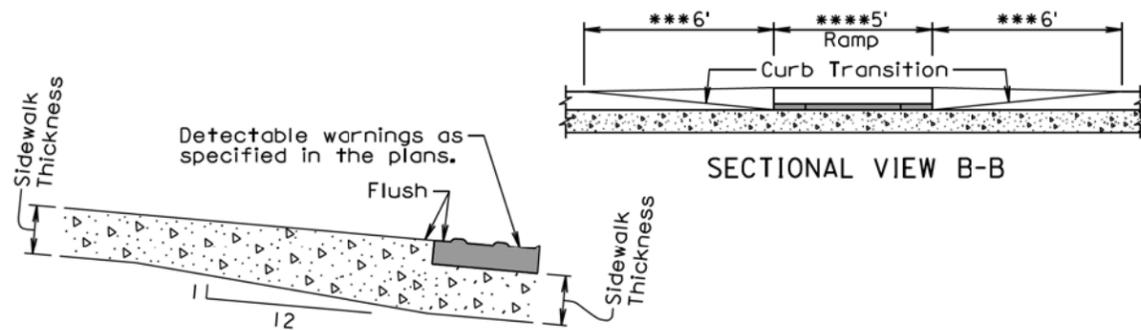
\*\* The slope in the turning space shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.

\*\*\* The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than 10:1 (10%) unless stated otherwise in the plans.

\*\*\*\* The ramp width is 5' unless stated otherwise in the plans.

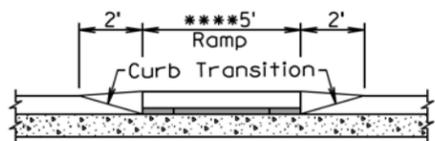


SECTION A-A



SECTIONAL VIEW B-B

DETAIL D



SECTIONAL VIEW C-C

September 6, 2013

S D D O T	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
		Sheet 2 of 3

Published Date: 4th Qtr. 2013

**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, PCC fillet sections are shown in the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter.

For illustrative purpose only, the curb ramp location is shown at the center of a PCC fillet section. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

\* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

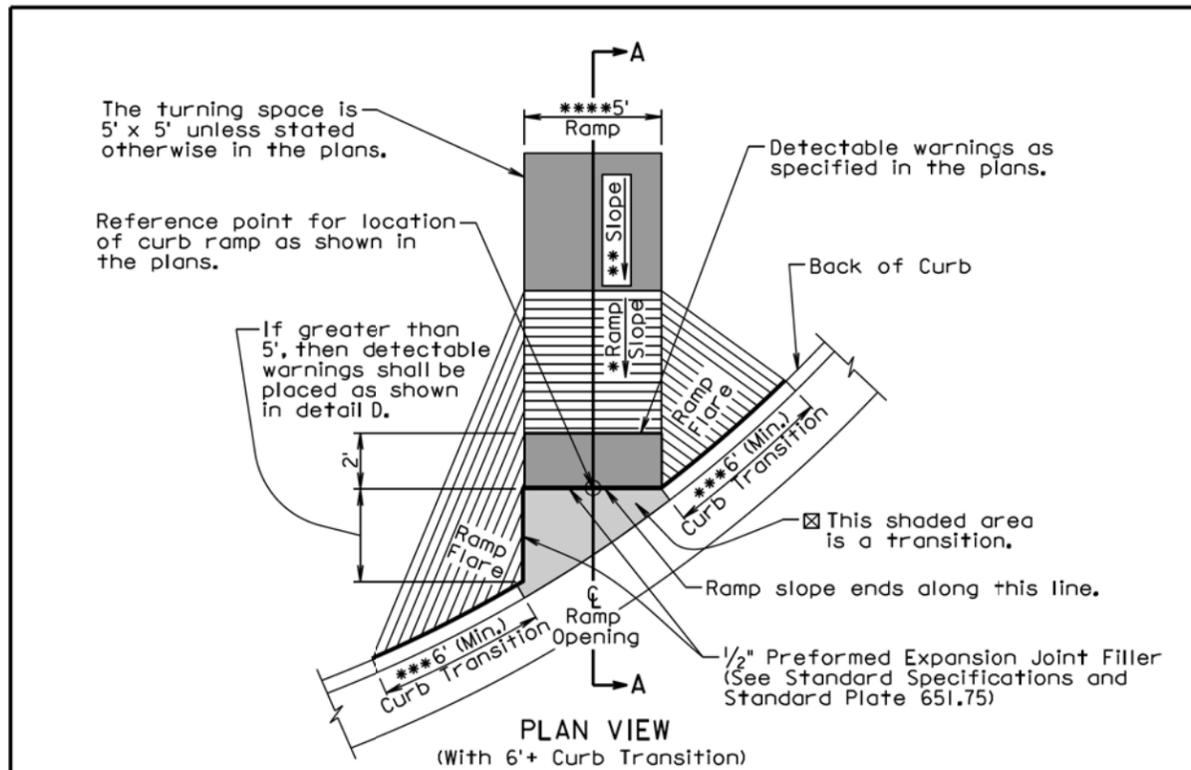
The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

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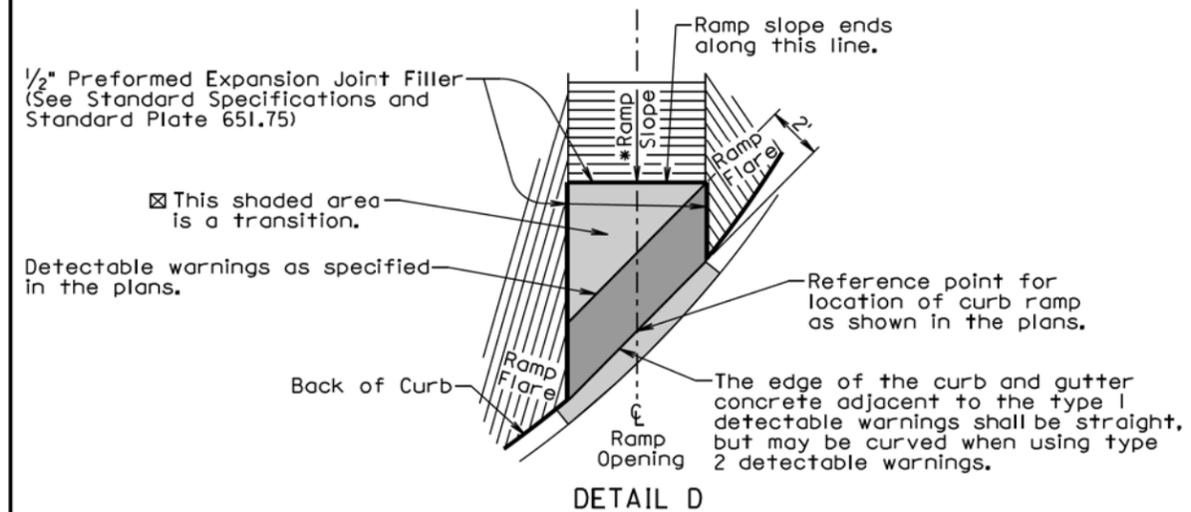
S D D O T	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
		Sheet 3 of 3

Published Date: 4th Qtr. 2013

Plot Scale - 1:200

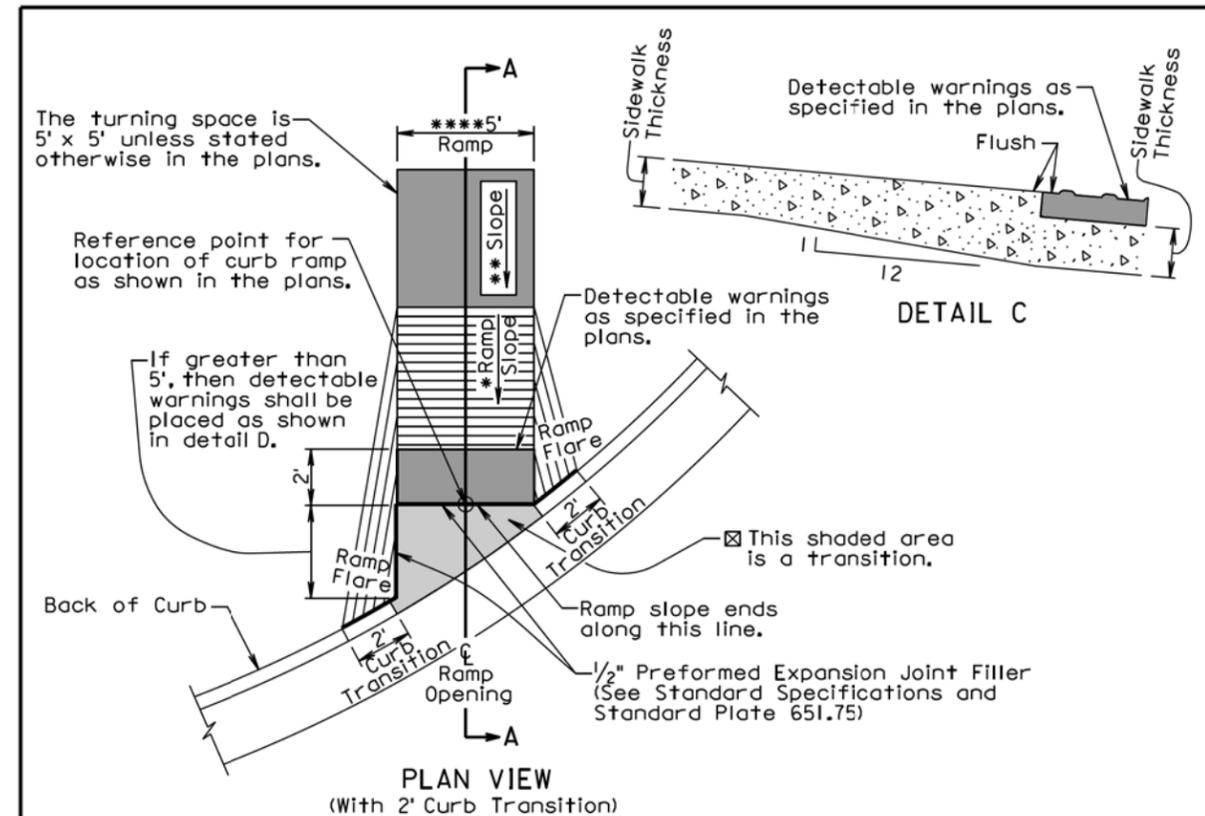


- ☒ The slope within the transition area shall not be steeper than a 20:1 (5%). The concrete within the transition shall be placed monolithic with the curb and gutter or fillet section concrete. The concrete thickness within the transition shall be the same as the curb and gutter or fillet section concrete thickness.
- \*\*\* The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than a 10:1 (10%) unless stated otherwise in the plans.

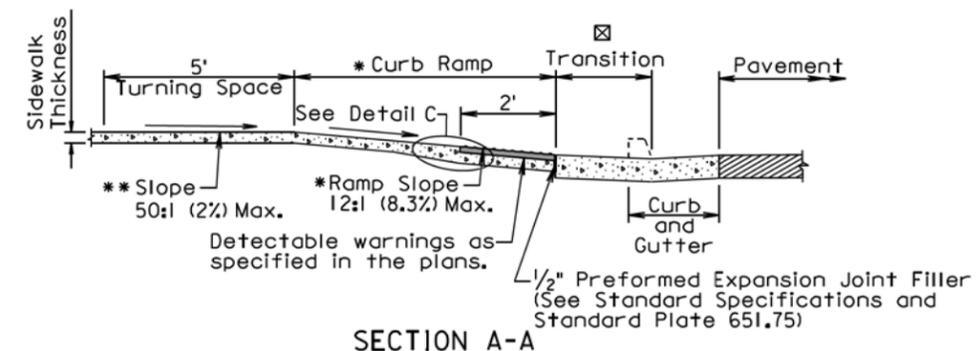


September 6, 2013

<b>S D D O T</b>	<b>TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)</b>	PLATE NUMBER <b>651.02</b>
	Published Date: 4th Qtr. 2013	Sheet 1 of 3



- \* The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.
- The cross slope of the ramp shall not be steeper than 50:1 (2%).
- \*\* The slope in the turning space shall not be steeper than a 50:1 (2%) in any direction of pedestrian travel.
- \*\*\*\* The ramp width is 5' unless stated otherwise in the plans.



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<b>S D D O T</b>	<b>TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)</b>	PLATE NUMBER <b>651.02</b>
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- Plotted From - tpr17196

File - ...isan02BH1s65102\_1s65102\_2.dgn

Plot Scale - 1:200

**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

\* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

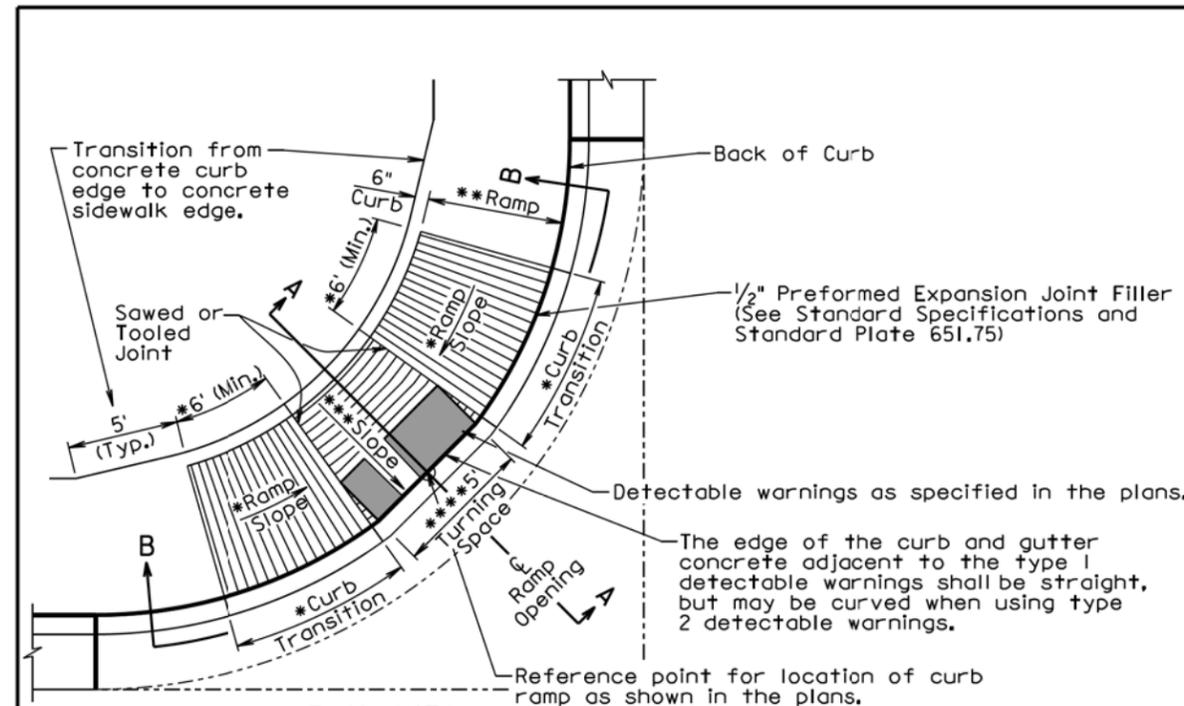
All costs for furnishing and installing the transition area at the base of the ramp shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used and shall be incidental to the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

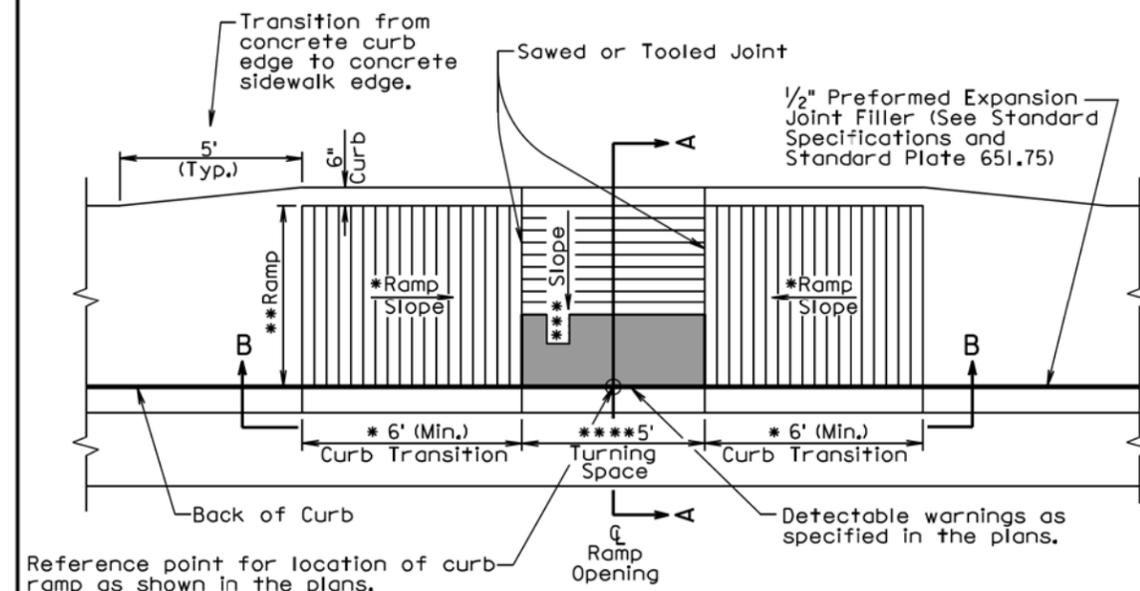
The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

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<b>S D D O T</b>	<b>TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)</b>	PLATE NUMBER 651.02
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**PLAN VIEW**  
(With Curved Curb and Gutter)



**PLAN VIEW**  
(With Straight Curb and Gutter)

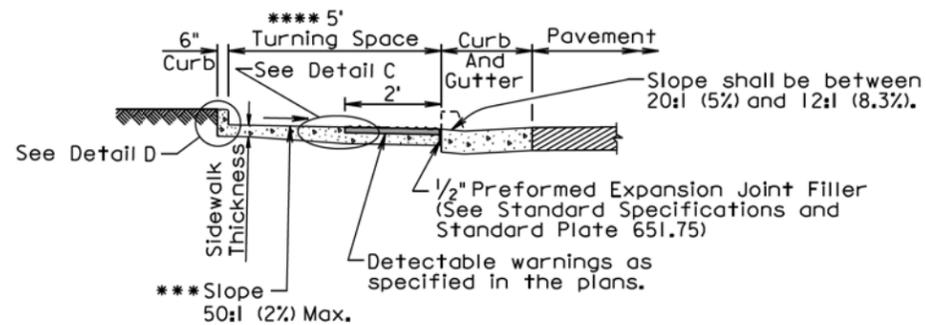
September 6, 2013

<b>S D D O T</b>	<b>TYPE 3 CURB RAMP (PARALLEL CURB RAMP)</b>	PLATE NUMBER 651.03
	Published Date: 4th Qtr. 2013	Sheet 1 of 3

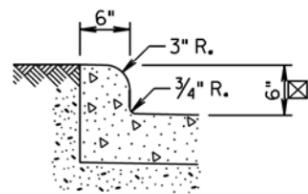
- Plotted From - tpr17196

File - ...lsan02BH165102\_3s65103\_1.dgn

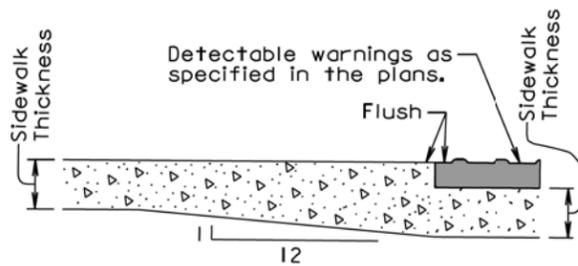
- \* The curb transition slope shall match the ramp slope. The ramp slope, at any location of the ramp, shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans. The minimum length of the curb transition shall be 6'.
- \*\* The ramp cross slope shall not be steeper than a 50:1 (2%) and the ramp width is 5' unless stated otherwise in the plans.
- \*\*\* The slope in the turning space shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.
- \*\*\*\* The turning space is 5' x 5' unless stated otherwise in the plans.
- ☒ The curb height shall be 6" unless stated otherwise in the plans.



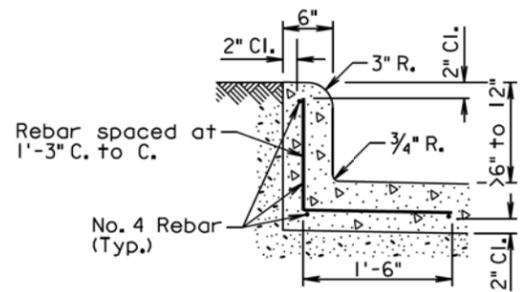
SECTION A-A



DETAIL D

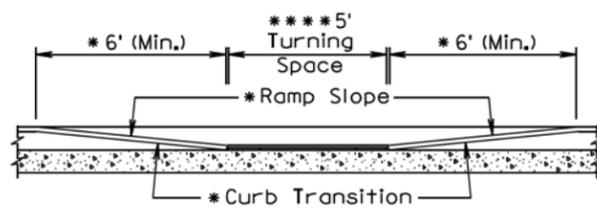


DETAIL C



DETAIL D

(Use this detail when the curb height is greater than 6" and less than 12")



SECTIONAL VIEW B-B

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<b>S D D O T</b>	<b>TYPE 3 CURB RAMP (PARALLEL CURB RAMP)</b>	PLATE NUMBER <b>651.03</b>
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**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, a PCC fillet section is shown in one of the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter.

The curb ramp shall be placed at the location stated in the plans.

Sidewalk adjacent to the curb ramp shall be as shown in the plans.

Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking (see plan view for joint location).

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

When curb height is greater than 6" and less than 12", reinforcing steel is required in accordance with the detail on sheet 2 of 3. The reinforcing steel shall conform to ASTM A615, Grade 60. Cost for furnishing and installing the reinforcing steel shall be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings and the curb along the short radius shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

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<b>S D D O T</b>	<b>TYPE 3 CURB RAMP (PARALLEL CURB RAMP)</b>	PLATE NUMBER <b>651.03</b>
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