

# STANDARD STREET IMPROVEMENT DETAILS

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<p><b>STREET IMPROVEMENT</b></p> <p><b>DETAILS</b></p>
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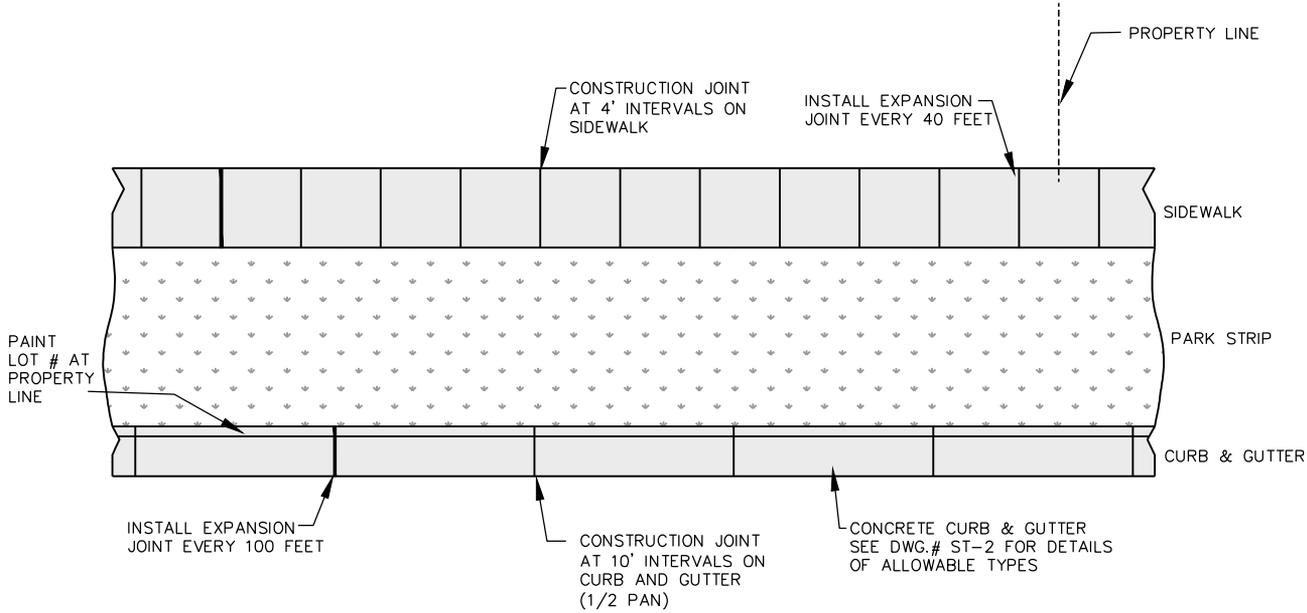
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DRAWING NAME: <b>ST-0</b>	
DRAWN BY: <b>ETL</b>	
CHECKED:	APPROVED:

REVISIONS		
REV	DATE	BY
COMMENTS		

<p><b>SARATOGA SPRINGS CITY</b></p>	<p>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794</p>
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<b>STANDARD DETAILS</b>
<b>STREET STANDARDS</b>
<b>ST-0</b>



**PLAN VIEW**

**NOTES:**

1. A MINIMUM 6" DEPTH OF ROADBASE MATERIAL SHALL BE PLACED TO GRADE AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY UNDER DRIVEWAY, WATERWAY, AND CURB & GUTTER PRIOR TO PLACEMENT OF CONCRETE.
2. A MINIMUM 6" DEPTH OF ROADBASE MATERIAL SHALL BE PLACED TO GRADE AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY UNDER SIDEWALK AT ALL OTHER LOCATIONS PRIOR TO PLACEMENT OF CONCRETE.
3. WHERE CONSTRUCTION IS ADJACENT TO STATE HIGHWAY FRONTAGE, STATE HIGHWAY DEPARTMENT REQUIREMENTS SHALL GOVERN.
4. CONCRETE SHALL BE 3/4 INCH MAXIMUM AGGREGATE, 6.3 BAGS PER YARD OF TYPE 2 CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
5. EXPANSION JOINTS FOR CURB & GUTTER ARE TO BE SPACED NO MORE THAN 100 FT. AND SIDEWALKS SHALL BE SPACED NO MORE THAN EVERY 40 FT. EXPANSION JOINTS SHALL BE CONSTRUCTED BY PLACING AN APPROVED MATERIAL, (TYPICALLY BITUMINOUS IMPREGNATED FIBERBOARD), THE FULL DEPTH OF THE CONCRETE. EXPANSION MATERIAL SHALL BE SET 1/2" BELOW THE FINISH LEVEL OF THE SIDEWALK.
6. CONSTRUCTION JOINT IS MADE BY SCORING THE CONCRETE WITH 1/2" RADIUS EDGING TOOL OR OTHER METHOD APPROVED BY ENGINEER.
7. SLOPE SIDEWALK TO ROADWAY AT 2% GRADE.
8. LOCATE ALL INLET GRATES 2' MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK, WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
9. THE SIDEWALK SHALL BE A MIN. 5" THICK CONCRETE.
10. IN ROCKY SUB-GRADES 18" OF BOTTOM OF TRENCH TO BOTTOM OF PIPE. MIN. OF 2' OF OUTSIDE DIAMETER.
11. INSTALL MAGNETIC DETECTOR TAPE WITH A MIN. OF 14 GAUGE COATED TRACER WIRE FOR ALL PVC OR OTHER PIPE.
12. PAINT LOT NUMBER AT PROPERTY LINE.
13. SEWER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH AN S.
14. CULINARY WATER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH A W.
15. SECONDARY WATER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH AN I.
16. WATER VALVE LOCATIONS TO BE MARKED ON TOP OF CURB WITH A V.

**SIDEWALK, CURB & GUTTER STANDARDS**

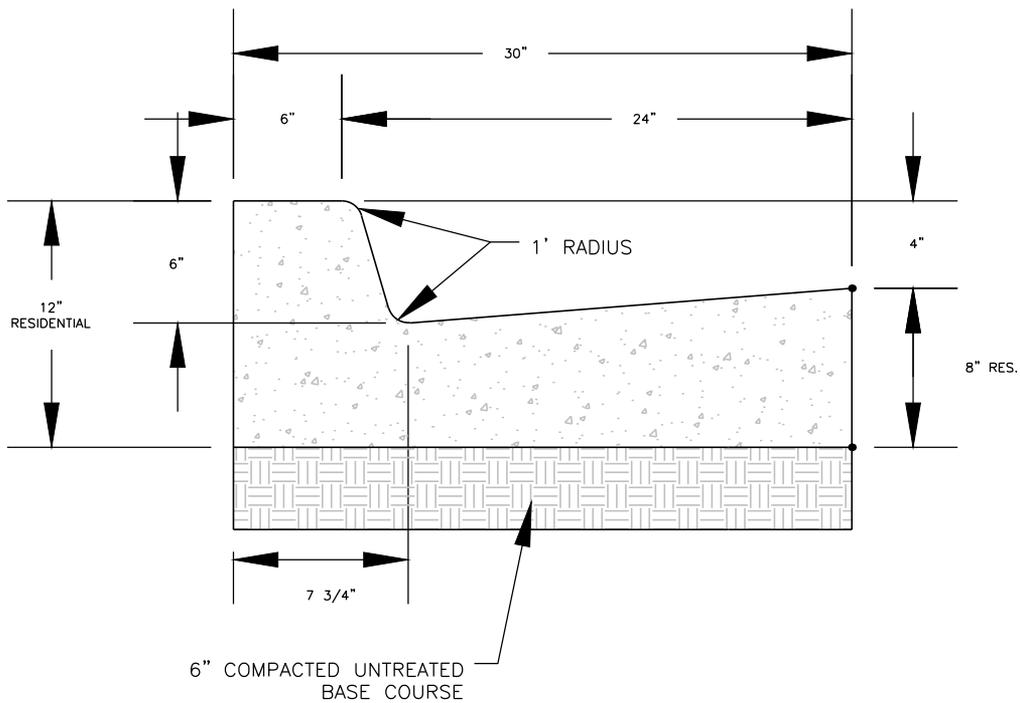
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STANDARD DETAILS

STREET STANDARDS

**ST-1**



**RESIDENTIAL**  
**30" HIGH BACK CURB AND GUTTER**  
 FOR USE ON ARTERIALS & COLLECTORS

**CURB & GUTTER  
 DETAILS**

DATE  
**JANUARY 2015**

DRAWING NAME:  
**ST-2A**

DRAWN BY:  
**ETL**

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REV	DATE	BY	COMMENTS

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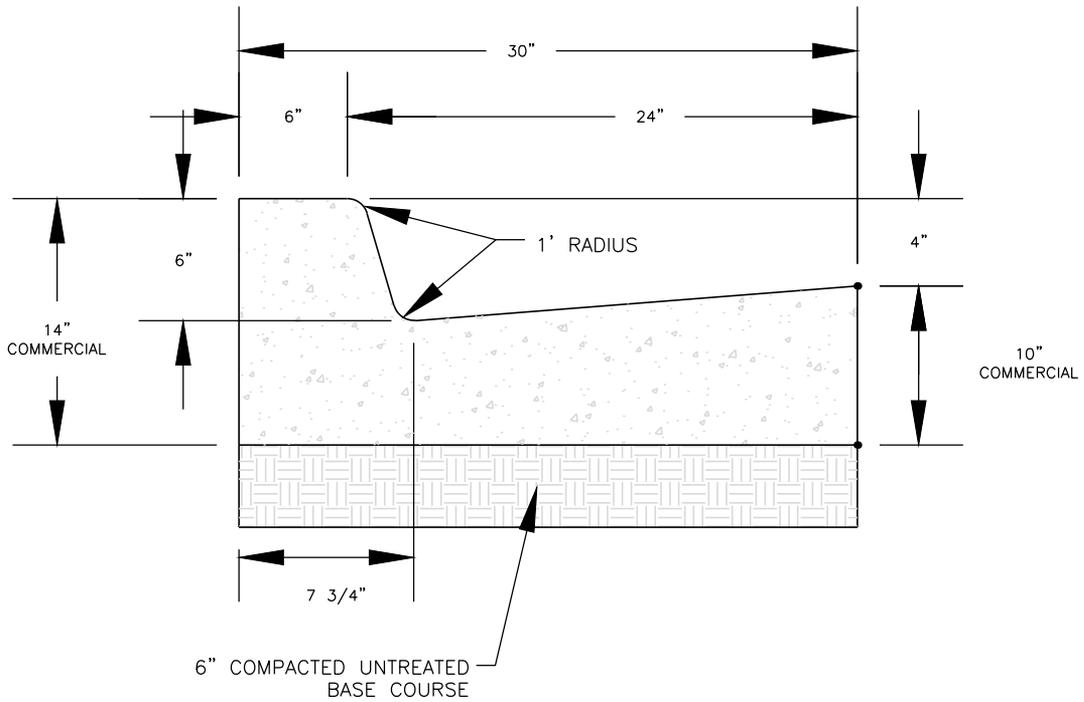
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STANDARD DETAILS

STREET STANDARDS

**ST-2A**



**COMMERCIAL**  
**30" HIGH BACK CURB AND GUTTER**  
 FOR USE ON ARTERIALS & COLLECTORS

**CURB & GUTTER  
 DETAILS**

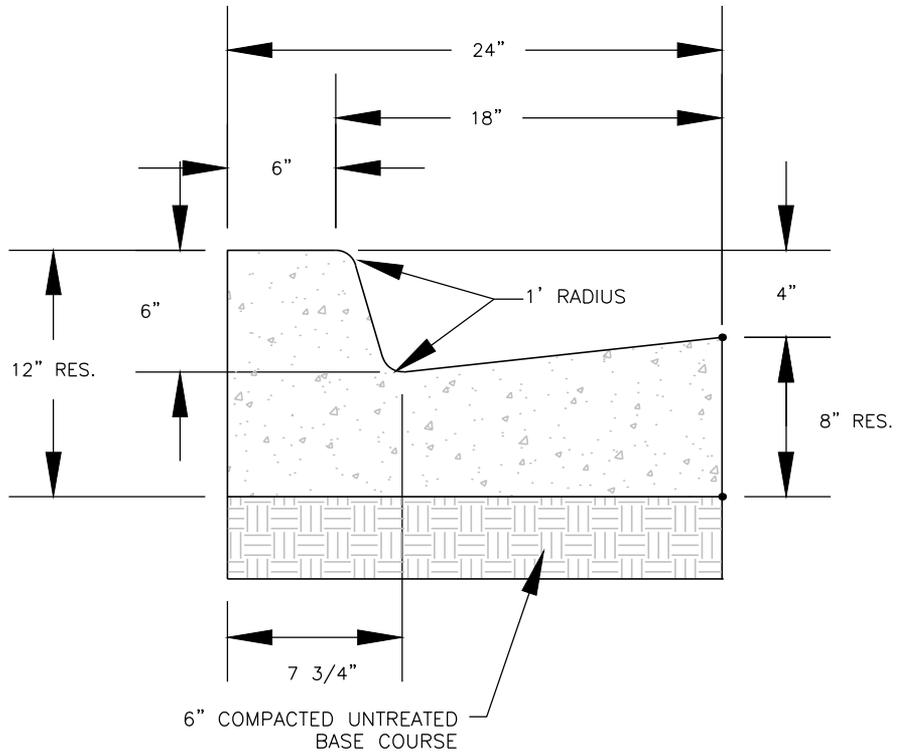
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CHECKED:	APPROVED:	
<b>SARATOGA    SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-669794



STANDARD DETAILS

STREET STANDARDS

**ST-2B**



**RESIDENTIAL**  
**24" HIGH BACK CURB AND GUTTER**  
 FOR USE IN LOCAL & MINOR COLLECTORS

**CURB & GUTTER  
 DETAILS**

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DRAWING NAME: <b>ST-2C</b>
DRAWN BY: <b>ETL</b>
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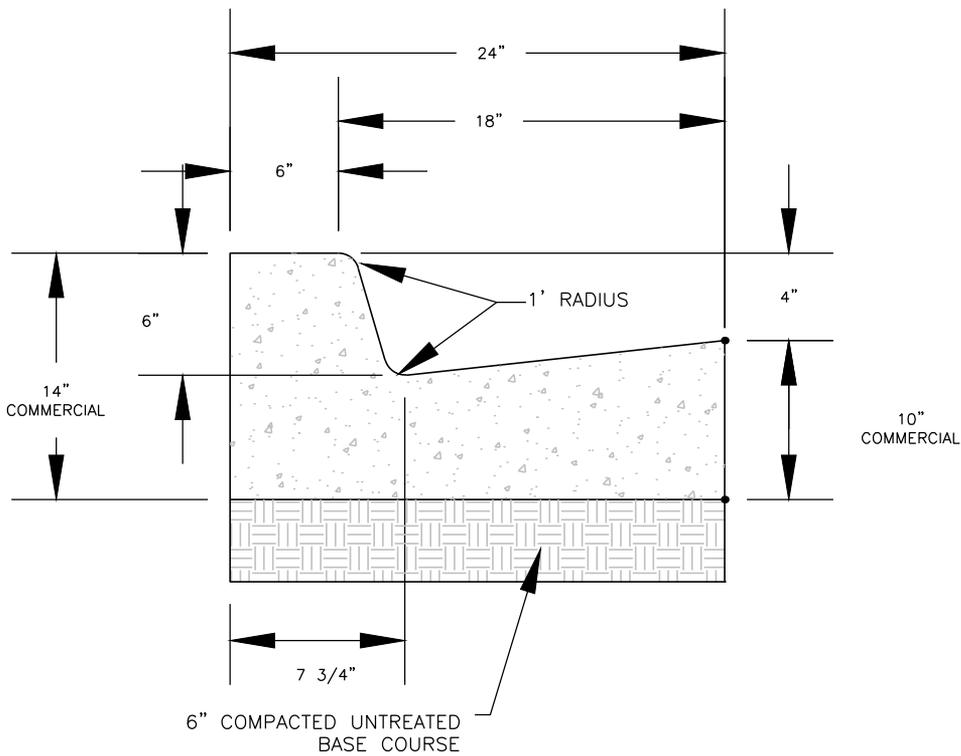
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STANDARD DETAILS
STREET STANDARDS
<b>ST-2C</b>



**COMMERCIAL**  
**24" HIGH BACK CURB AND GUTTER**  
 FOR USE IN LOCAL & MINOR COLLECTORS

**CURB & GUTTER  
 DETAILS**

DATE: <b>JANUARY 2015</b>
DRAWING NAME: <b>ST-2D</b>
DRAWN BY: <b>ETL</b>
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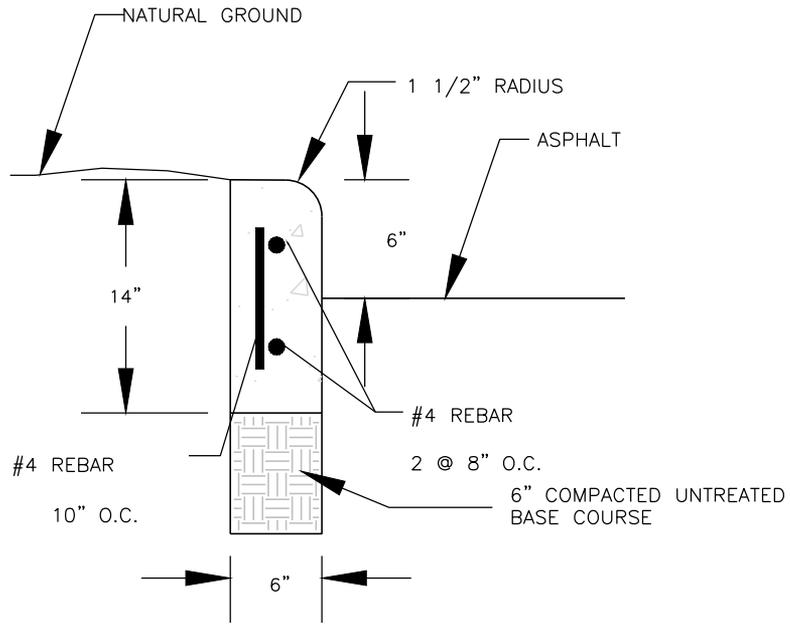
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STANDARD DETAILS
STREET STANDARDS
<b>ST-2D</b>



## 6" CURB WALL

### CURB & GUTTER DETAILS

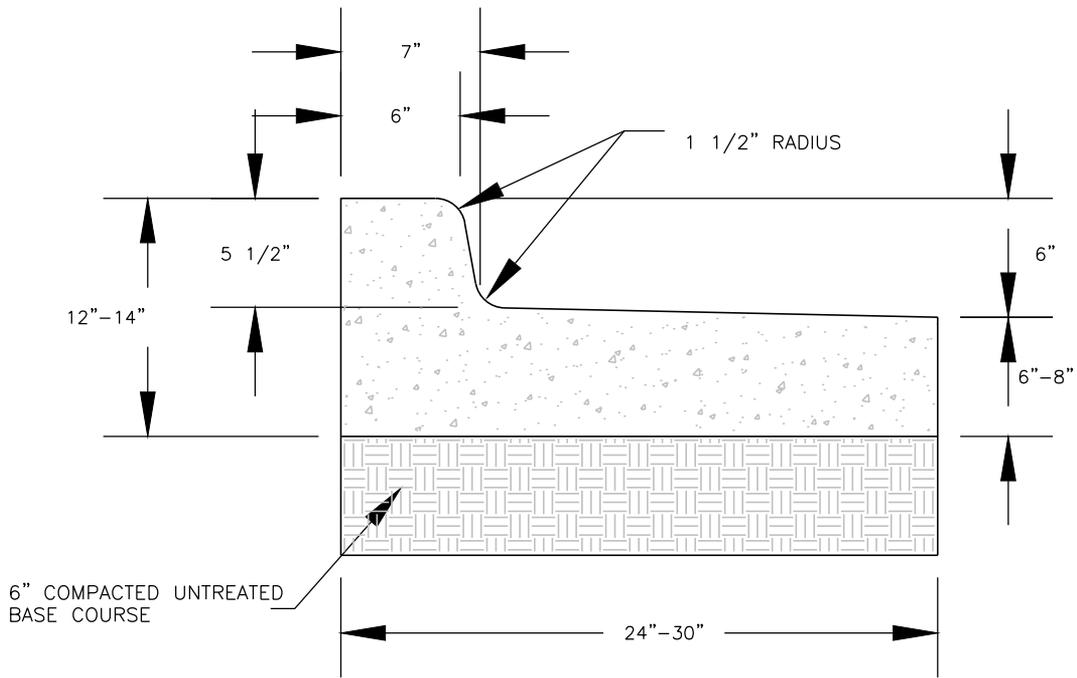
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CHECKED:	APPROVED:	<b>SARATOGA SPRINGS CITY</b> <small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794</small>	



STANDARD DETAILS

STREET STANDARDS

**ST-2E**



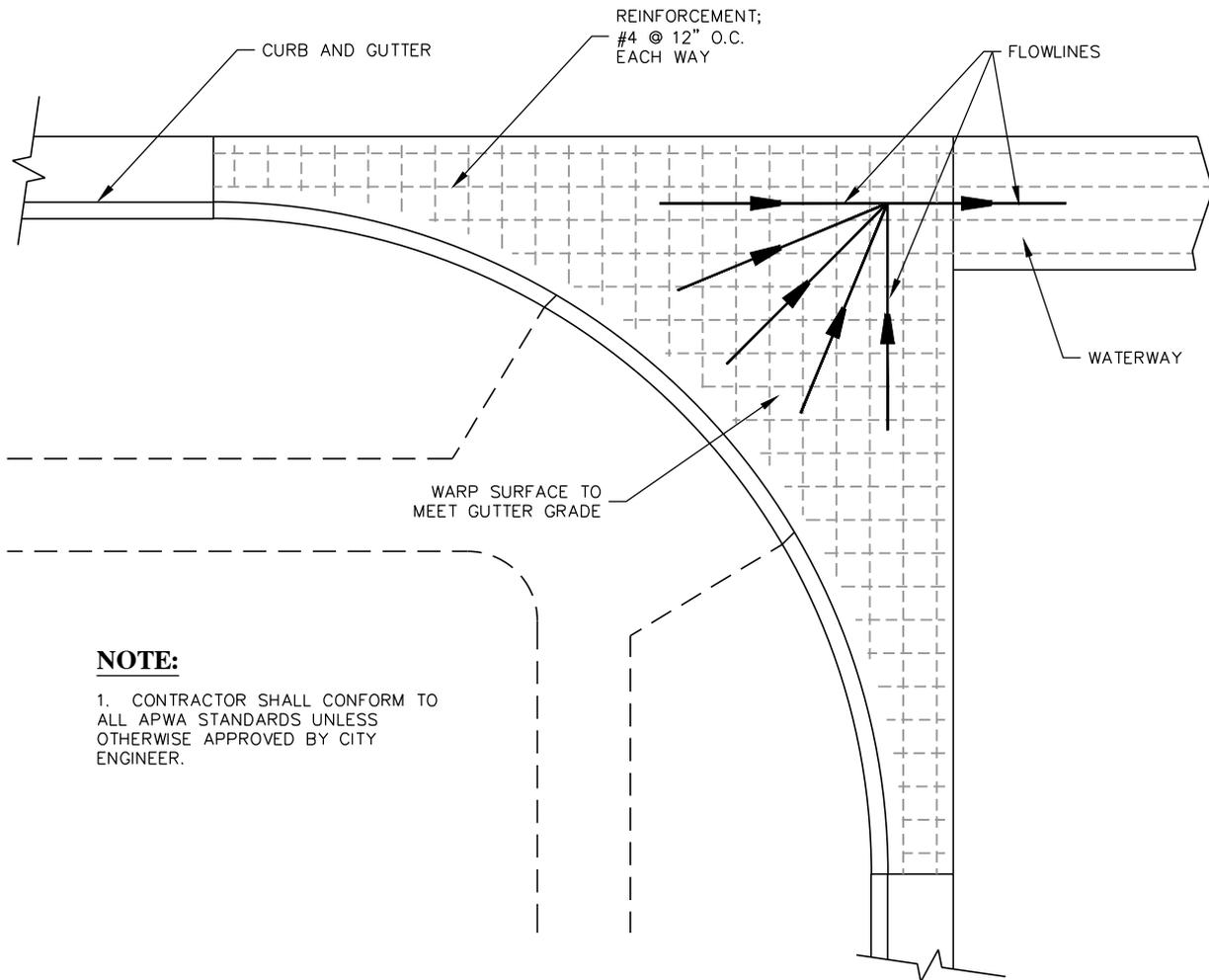
## FALL-OUT CURB AND GUTTER

### CURB & GUTTER DETAILS

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DRAWING NAME: <b>ST-2F</b>	DRAWN BY: <b>ETL</b>	CHECKED:	APPROVED:
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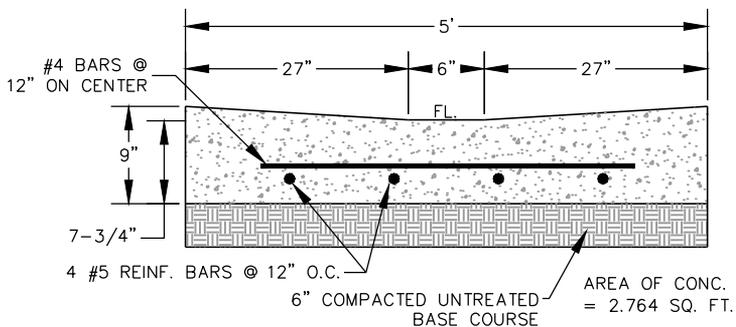
STANDARD DETAILS
STREET STANDARDS
ST-2F



**NOTE:**

1. CONTRACTOR SHALL CONFORM TO ALL APWA STANDARDS UNLESS OTHERWISE APPROVED BY CITY ENGINEER.

**PLAN VIEW**



**WATERWAY**

**WATERWAY  
DETAIL**

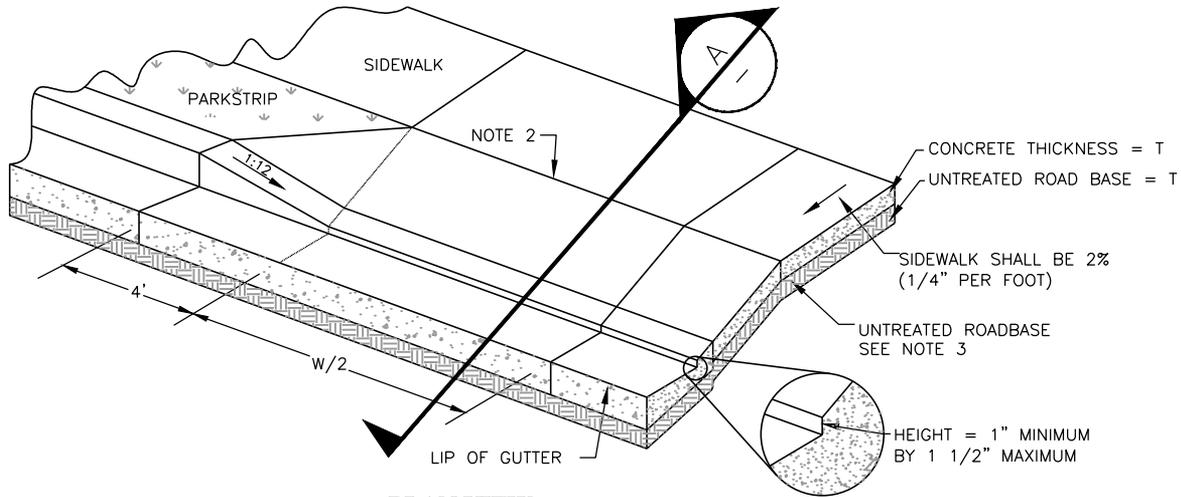
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DRAWN BY: <b>ETL</b>	COMMENTS	
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		
<small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794</small>		



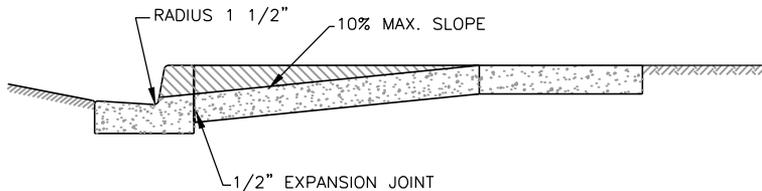
STANDARD DETAILS

STREET STANDARDS

**ST-3**



**PLAN VIEW**



**SECTION 'A'**

**NOTES:**

- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- PLACE 1/2" EXPANSION JOINT BETWEEN DRIVEWAY APRON AND CURB AND IN THE DRIVEWAY CENTERLINE IF "W" IS GREATER THAN 20'. FILLER MATERIAL SHALL BE FULL DEPTH OF CONCRETE PLUS 1", WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED ROADBASE UNDER CURB, GUTTER AND SIDEWALK. COMPACT TO 95% OF THE MAXIMUM DRY DENISTY.
- ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN 2:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.
- BACK EDGE OF SIDEWALK TO BE SET AT AN ELEVATION 2% HIGHER THAN THE TOP BACK OF CURB.
- SIDEWALK TO BE A MINIMUM OF 5 FEET WIDE UNLESS OTHERWISE SPECIFIED.
- MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY'S STANDARD SPECIFICATIONS.

**DRIVE APPROACH DIMENSIONS**

DIMENSION	LEGNTH ACCORDING TO ZONE
W	10'-0" MIN. RESIDENTIAL ZONES 20'-0" MAX. RESIDENTIAL ZONES 40'-0" MAX. COMMERCIAL/INDUSTRIAL ZONES
T	0'-6" RESIDENTIAL ZONES 0'-8" INDUSTRIAL/COMMERCIAL ZONES

**SLOPE TABLE**

DIMENSION	ZONE
(A) 12% MAX. 6% MAX.	RESIDENTIAL ZONE INDUST. AND COMM. ZONE
(B) 13% MAX. 6% MAX.	RESIDENTIAL ZONE INDUST. AND COMM. ZONE
(C) 15% MAX. 6% MAX.	RESIDENTIAL ZONE INDUST. AND COMM. ZONE

**FLARE DRIVE APPROACH**

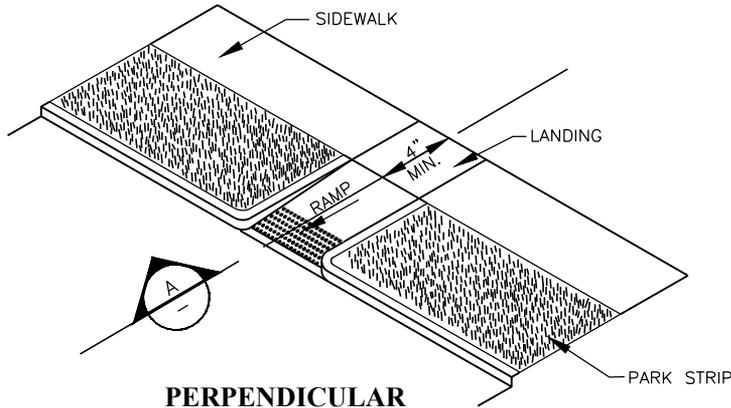
DATE: <b>JANUARY 2015</b>	REVISIONS	
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DRAWN BY: <b>ETL</b>		
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STANDARD DETAILS

STREET STANDARDS

**ST-4**

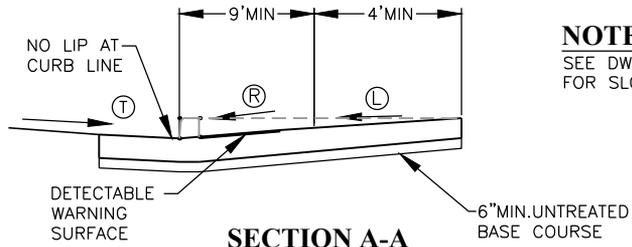


**NOTE:**

SIDEWALK SLOPES STEEPER THAN 8.3% SHOULD BE GIVEN CONSIDERATION FOR THE GRADE CHANGE TO BE COMPLIANT WITH ADA STANDARDS

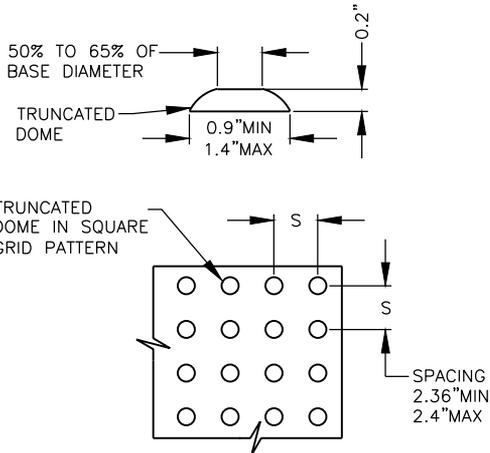
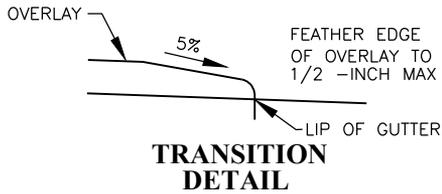
**PERPENDICULAR PEDESTRIAN RAMP**

FLARE IS ACCEPTABLE IN LIEU OF FULL HEIGHT CURB  
SEE LOCAL AGENCY REQUIREMENTS

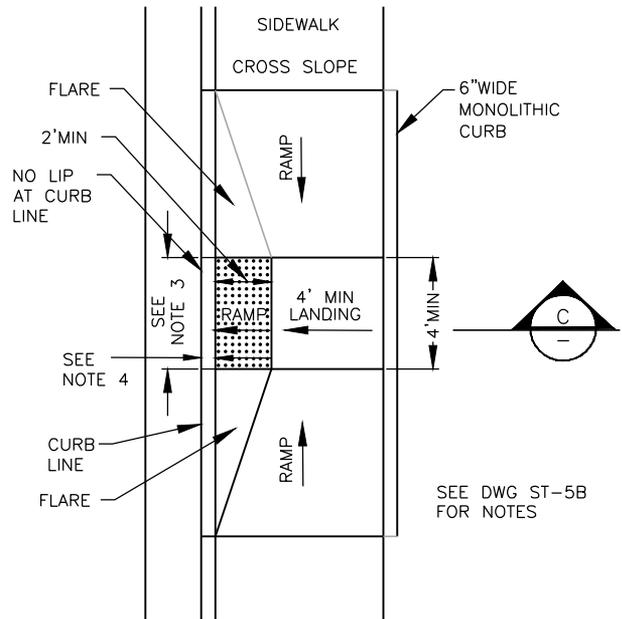


**NOTE:**

SEE DWG ST-5A FOR SLOPE DETAIL



**DETECTABLE WARNING SURFACE DETAIL A**



SEE DWG ST-5B FOR NOTES

**PEDESTRIAN ACCESS RAMP DETAIL**

**HANDICAP ACCESSIBLE RAMP**

DATE: **JANUARY 2015**

DRAWING NAME: **ST-5A**

DRAWN BY: **ETL**

CHECKED: APPROVED:

REV		DATE	BY	COMMENTS

**SARATOGA SPRINGS CITY**

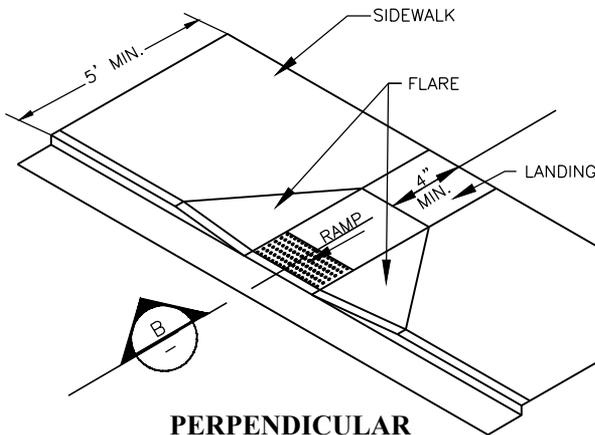
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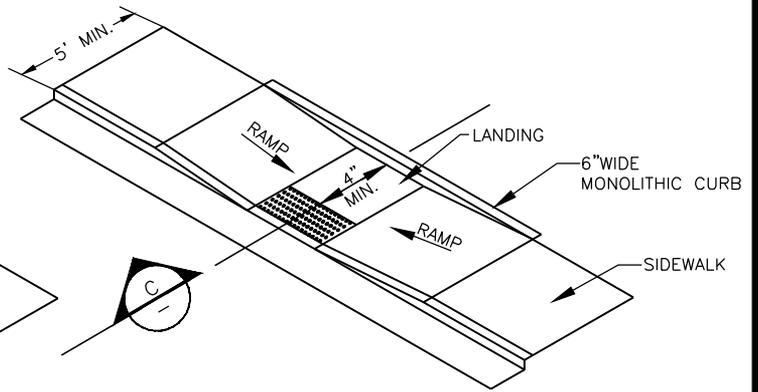
STANDARD DETAILS

STREET STANDARDS

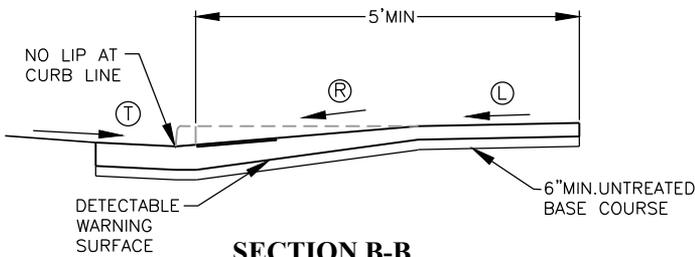
**ST-5A**



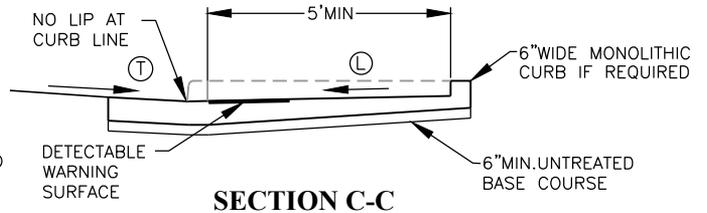
**PERPENDICULAR PEDESTRIAN RAMP**



**PARALLEL PEDESTRIAN RAMP**



**SECTION B-B**



**SECTION C-C**

SLOPE TABLE			
	ITEM	MAX. RUNNING SLOPE *	MAX. CROSS SLOPE *
(L)	LANDING	2% (1V:48H) (b)	2% (1V:48H) (b)
(R)	RAMP	8.33% (1V:12H) (c)	2% (1V:48H) (d)
(T)	TRANSITION	5% (1V:20H) (a)	2% (1V:48H) (d)
	SIDEWALK	--	2% (1V:48H)
	FLARE	10% (1V:10H)	--

\* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL, WHILE CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.

(a) TRANSITION RUNNING SLOPE NEEDS TO BE CONSTANT ACROSS ENTIRE CURB CUT. WARP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT.

EXCEPTION:

(b) SLOPE REQUIREMENTS DO NOT APPLY AT MID-BLOCK CROSSINGS.

(c) PARALLEL RAMP ARE NOT REQUIRED TO EXCEED 15- FEET IN LENGTH.

(d) CROSS SLOPE REQUIREMENT DOES NOT APPLY AT PERPENDICULAR RAMP MID-BLOCK CROSSING.

**NOTES:**

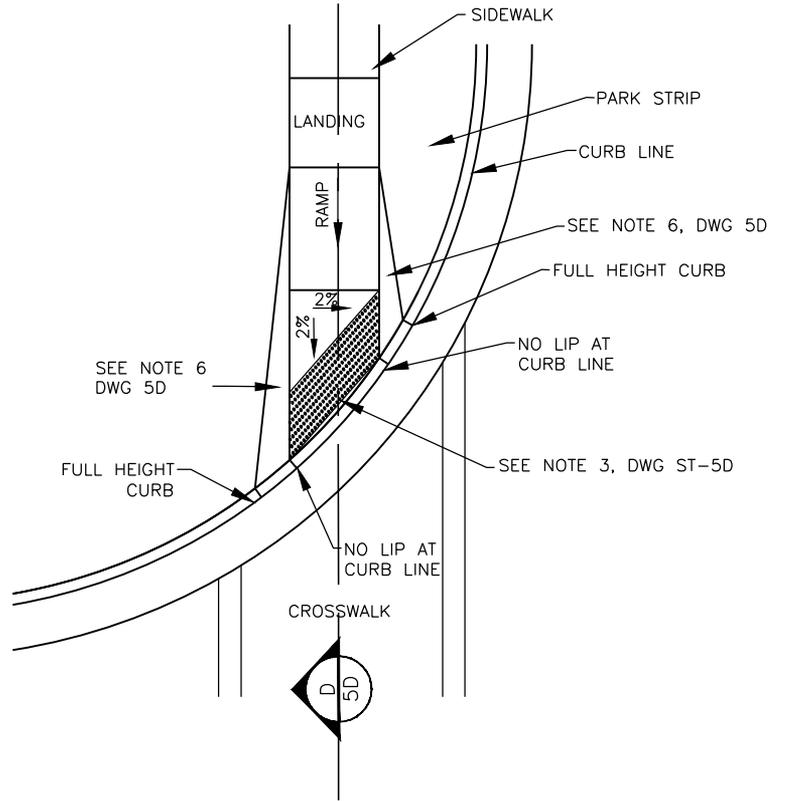
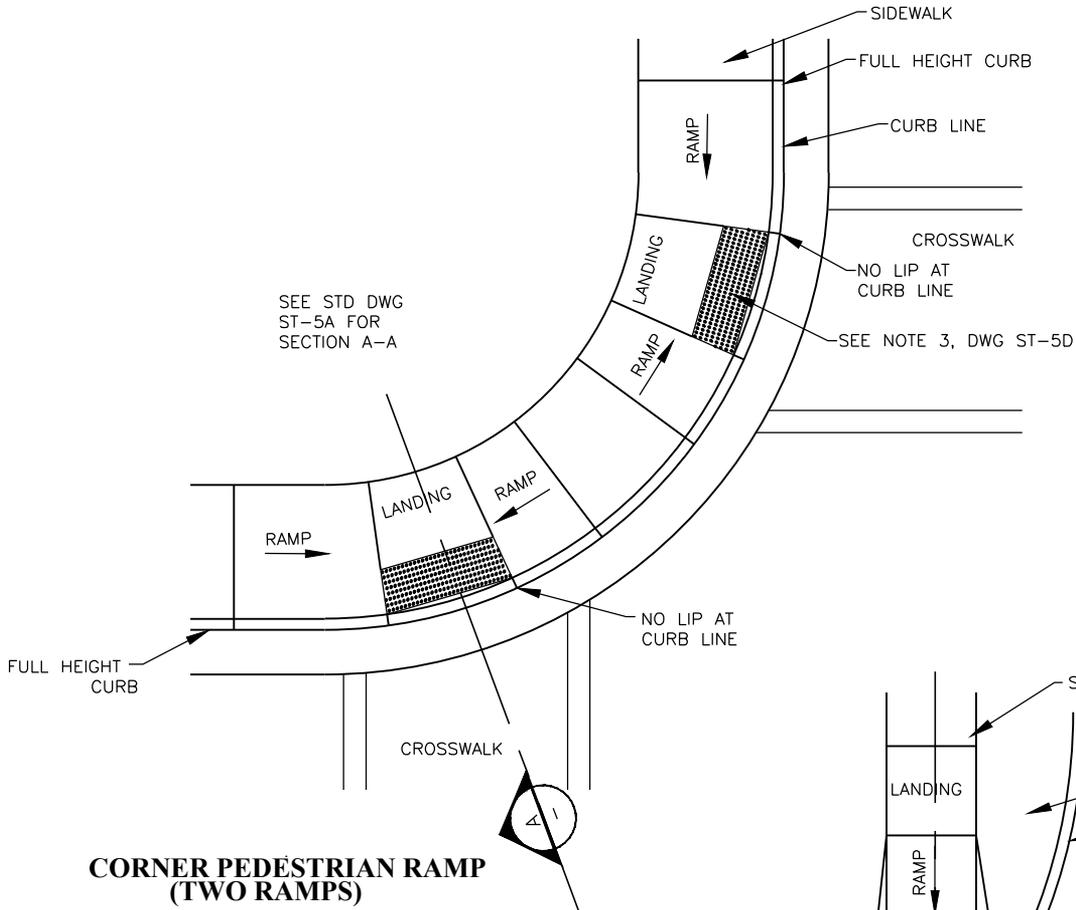
1. CONFIGURATION OF RAMPS AND LANDINGS MAY BE CHANGED BUT MUST MEET PEDESTRIAN RAMP DIMENSION AND SLOPE REQUIREMENTS. SPECIFIC SITE CONDITIONS WILL VARY. THE USE OF FLARES, CURBWALLS, ETC. ARE AT THE DISCRETION OF THE ENGINEER.
2. PERPENDICULAR AND PARALLEL PEDESTRIAN RAMPS SHOWN ON THIS DRAWING ARE ACCEPTABLE FOR USE AT MID BLOCK OR CORNER INSTALLATIONS. REFER TO STD DWG ST 5C, 5D AND ST 5C FOR EXAMPLES OF CORNER INSTALLATIONS.
3. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING, OR CURB CUT. SEE DETAIL A, DWG 5A, FOR DETECTABLE WARNING SURFACE DIMENSIONS.
4. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
5. PROVIDE DETECTABLE WARNING SURFACE THAT CONTRASTS WITH ADJACENT WALKING SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ACCEPTABLE COLORS INCLUDE: YELLOW.
6. USE CLASS AA(AE) CONCRETE.
7. USE UNTREATED BASE COURSE UNDER ALL CONCRETE FLATWORK.

**HANDICAP ACCESSIBLE RAMP**

DATE: <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-5B</b>	REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-786-9793 FAX: 801-786-9794



STANDARD DETAILS  
STREET STANDARDS  
**ST-5B**



**HANDICAP ACCESSIBLE RAMP**

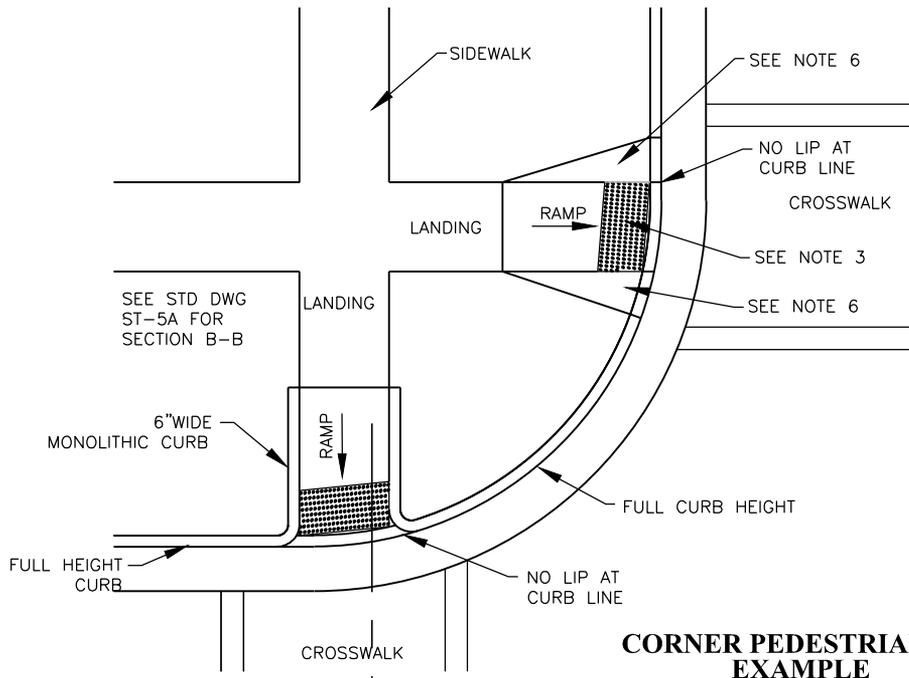
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DRAWN BY: <b>ETL</b>			
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STANDARD DETAILS

STREET STANDARDS

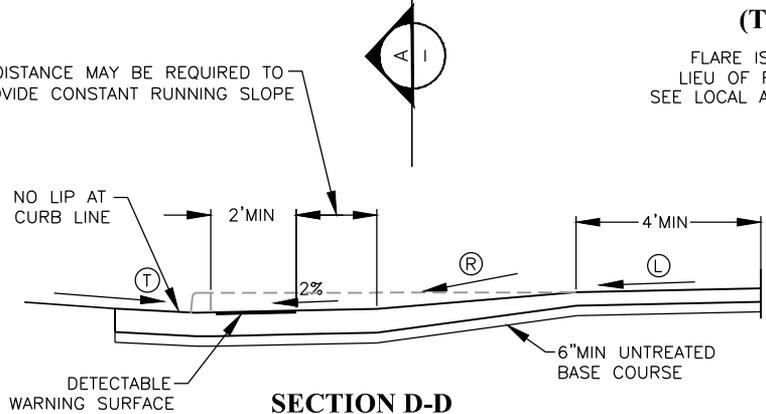
**ST-5C**



**CORNER PEDESTRIAN RAMP  
EXAMPLE  
(TWO RAMPS)**

FLARE IS ACCEPTABLE IN LIEU OF FULL HEIGHT CURB  
SEE LOCAL AGENCY REQUIREMENTS

THIS DISTANCE MAY BE REQUIRED TO PROVIDE CONSTANT RUNNING SLOPE



**SECTION D-D**

**NOTES:**

1. REFER TO STD DWG ST-5A FOR PEDESTRIAN ACCESS RAMP DETAIL AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING, OR CURB CUT. SEE DETAIL A ON STD DWG ST-5A FOR DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
4. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
5. LOCATE CURB CUT WITHIN CROSSWALK.
6. WARP FLATWORK TO MATCH TOP OF CURB AND SIDEWALK.

**HANDICAP ACCESSIBLE  
RAMP**

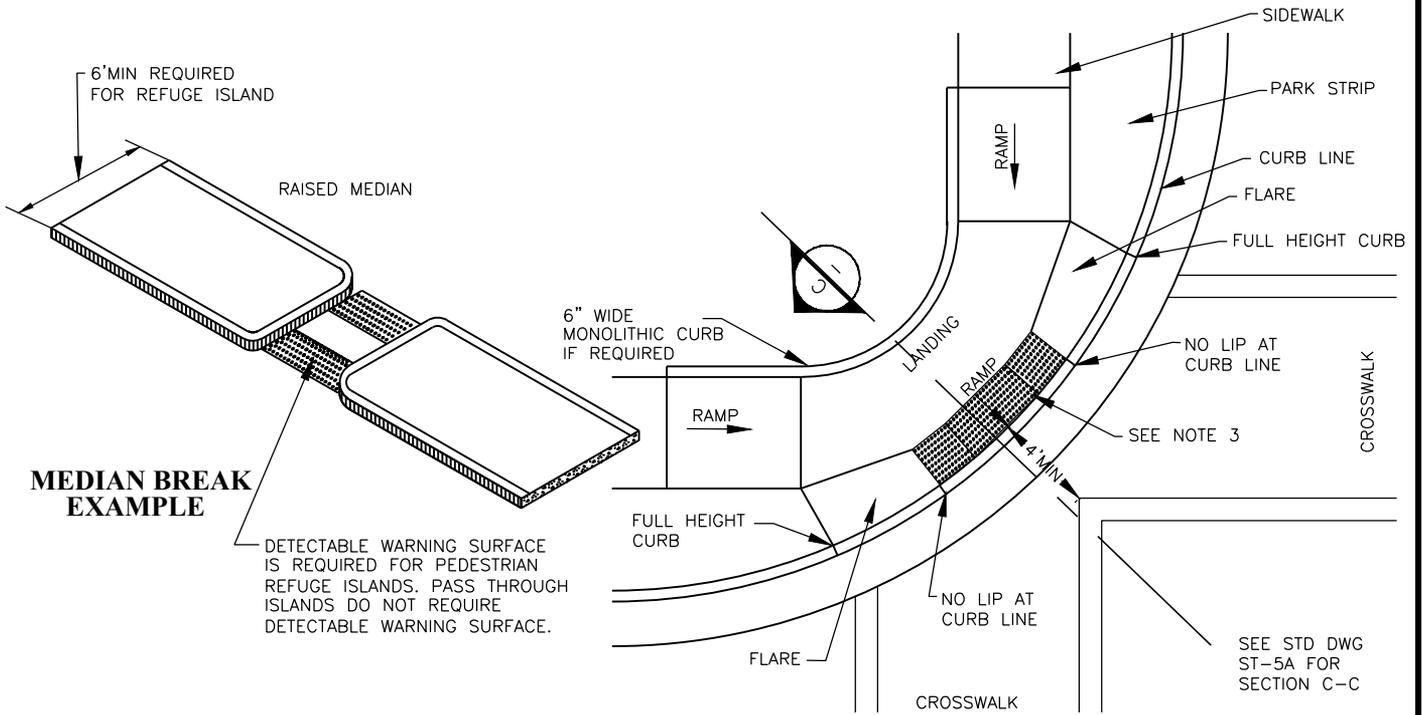
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DRAWN BY: <b>ETL</b>		BY	COMMENTS
CHECKED:	APPROVED:	<b>SARATOGA SPRINGS CITY</b>	
		<small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-769-7194</small>	



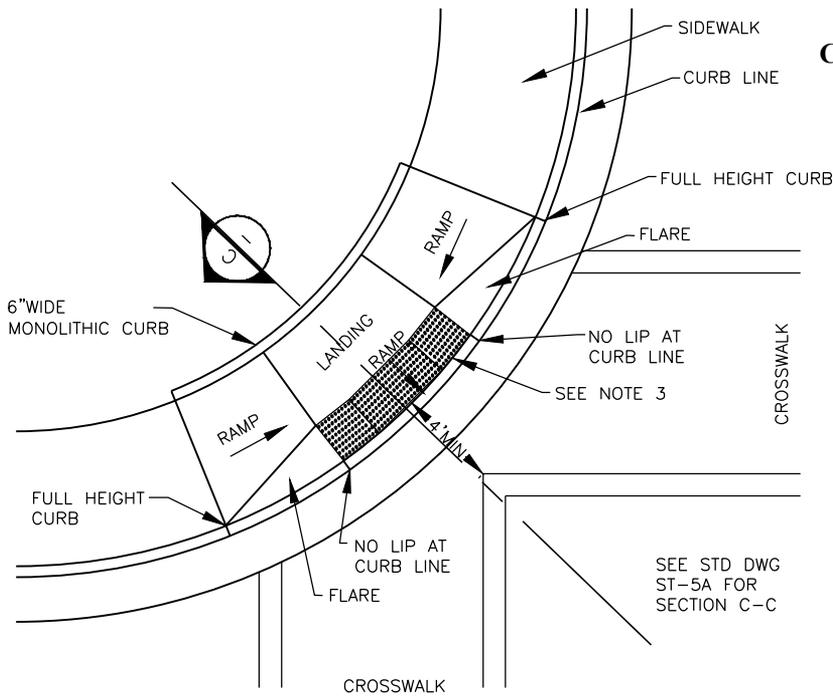
STANDARD DETAILS

STREET STANDARDS

**ST-5D**



**CORNER PEDESTRIAN RAMP EXAMPLE**



**CORNER PEDESTRIAN RAMP EXAMPLE**

**NOTES:**

1. REFER TO STD DWG ST 5A FOR PEDESTRIAN ACCESS RAMP DETAIL AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING, OR CURB CUT. SEE DETAIL A ON STD DWG ST 5A FOR DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
4. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
5. LOCATE CURB CUT WITHIN CROSSWALK.

**HANDICAP ACCESSIBLE RAMP**

DATE: **JANUARY 2015**

DRAWING NAME: **ST-5E**

DRAWN BY: **ETL**

CHECKED: APPROVED:

REV		DATE	BY	COMMENTS

**SARATOGA SPRINGS CITY**

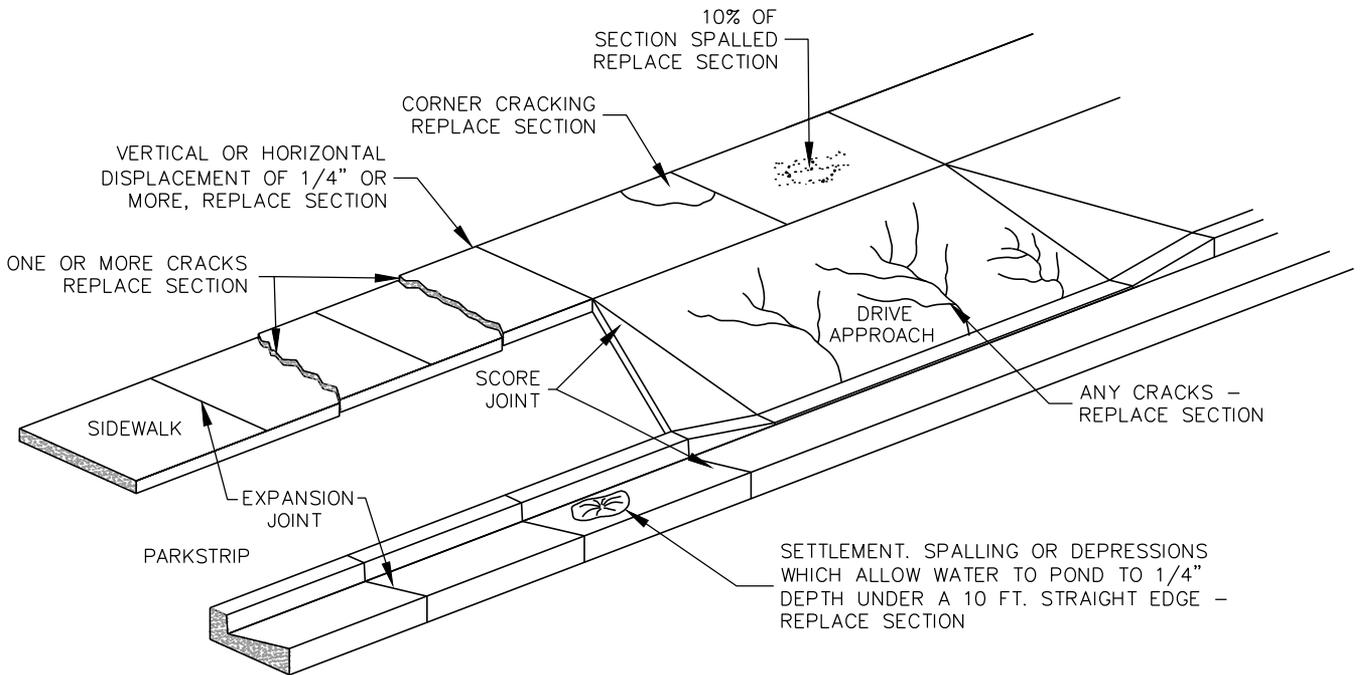
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-5E**



**NOTES:**

REPLACEMENT IS REQUIRED IF ANY COMPONENT HAS ONE OR MORE OF THE CONDITIONS NOTED ABOVE. OTHERWISE REPAIR SECTION UNDER THE DIRECTION OF THE CITY ENGINEER.

**DEFECTIVE CONCRETE  
REPLACEMENT  
CRITERIA**

DATE: <b>JANUARY 2015</b>	
DRAWING NAME: <b>ST-6</b>	
DRAWN BY: <b>ETL</b>	
CHECKED:	APPROVED:

REVISIONS		
REV	DATE	BY

**SARATOGA  
SPRINGS CITY**

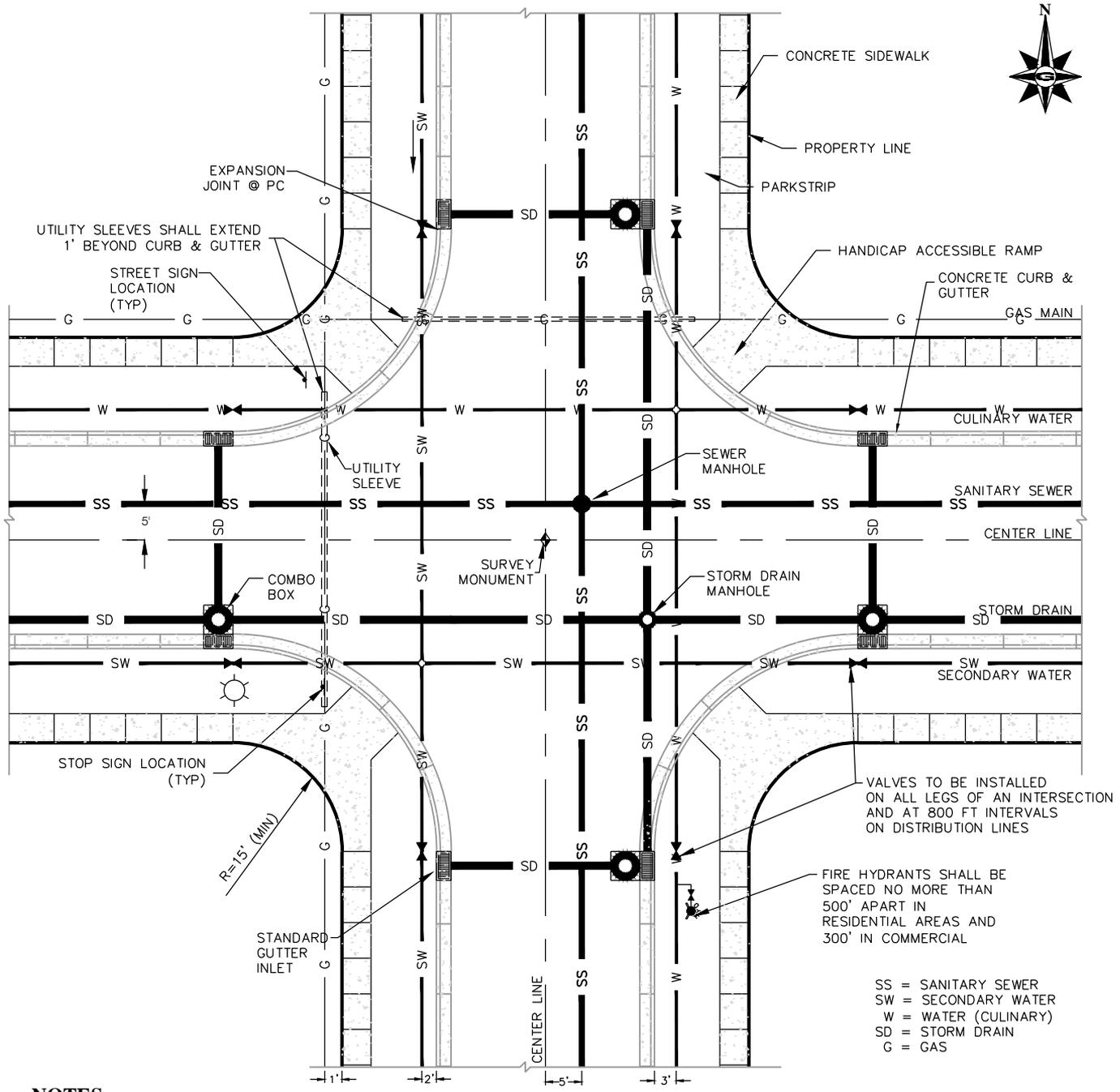
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-6**



SS = SANITARY SEWER  
 SW = SECONDARY WATER  
 W = WATER (CULINARY)  
 SD = STORM DRAIN  
 G = GAS

**NOTES:**

1. LAND DRAINS ARE UNACCEPTABLE UNLESS EXPLICITLY ALLOWED BY CITY ENGINEER. WHEN ALLOWED, PIPES SHALL NOT BE PERFORATED OR DESIGNED TO ACCEPT WATER WITHIN THE STREET RIGHT-OF-WAY.
2. CURB RADIUS ON LOCAL AND COLLECTOR RIGHT-OF-WAYS SHALL BE 25', ON MINOR ARTERIALS IT SHALL BE 35', AND ON MAJOR AND PRINCIPAL ARTERIALS SHALL BE 40' AS MEASURED FROM FACE OF CURB.
3. CHECK ALL CITY STANDARDS FOR UTILITY LOCATIONS.
4. STREET LIGHTS ARE TO BE CENTERED IN PARK STRIPS.
5. STREET LIGHTS ARE TO BE PLACED AT INTERSECTIONS AND EVERY 300 FEET, ALTERNATING SIDES OF STREET.

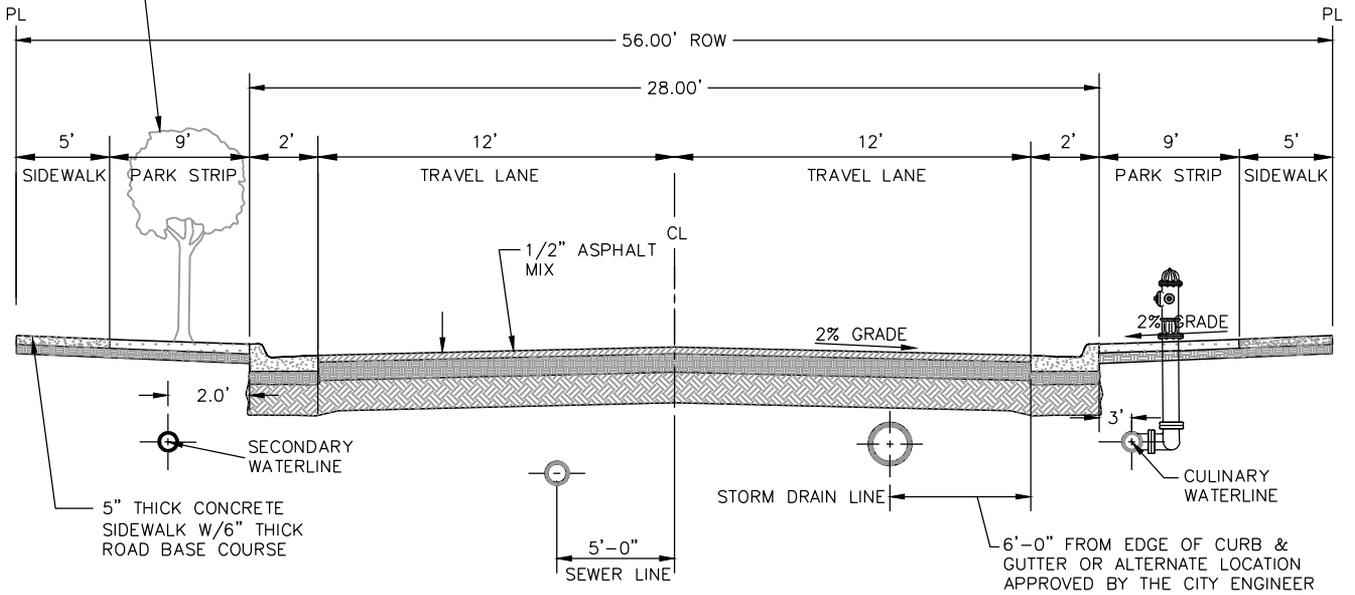
**STANDARD  
 INTERSECTION &  
 UTILITY DETAILS**

DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-7</b>		REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:	<b>SARATOGA          SPRINGS CITY</b>	
		<small>1307 N. COMMERCE DR.          #200, SARATOGA SPRINGS,          UT 84045          PHONE: 801-766-9793          FAX: 801-7669794</small>	



STANDARD DETAILS  
 STREET STANDARDS  
**ST-7**

TREES SHALL MEET SPECIFICATIONS FOUND IN SECTION 02726. TREES ARE TO BE PLACED EVERY 50' ON BOTH SIDES OF THE ROAD. STAGGER LOCATIONS FROM ONE SIDE OF THE ROAD TO THE OTHER. GRADE "A" MINIMUM IN ALL APPLICATIONS.



**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN MAY BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER. LOCATION OF SIDEWALK AND CURB & GUTTER MAY VARY ON INDIVIDUAL ARTERIAL STREETS PER DIRECTION OF CITY ENGINEER.
3. ALL RESIDENTIAL STREETS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. HOUSES MAY FRONT ON THESE STREETS.
7. THIS ROW CROSS SECTION SHALL BE PERMITTED FOR PRIVATE ROAD CROSS SECTIONS IN THE FOLLOWING ZONES: R-2, R-3 AND R-4.

**DESIGN CRITERIA**

DESIGN SPEED: 25 M.P.H.

MIN CENTERLINE RADIUS: 200' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 37

CREST K VALUE = 20

**RESIDENTIAL  
ROADWAY  
56' RIGHT-OF-WAY**

DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-8</b>	REV	DATE	BY
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:	COMMENTS	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-7669794	

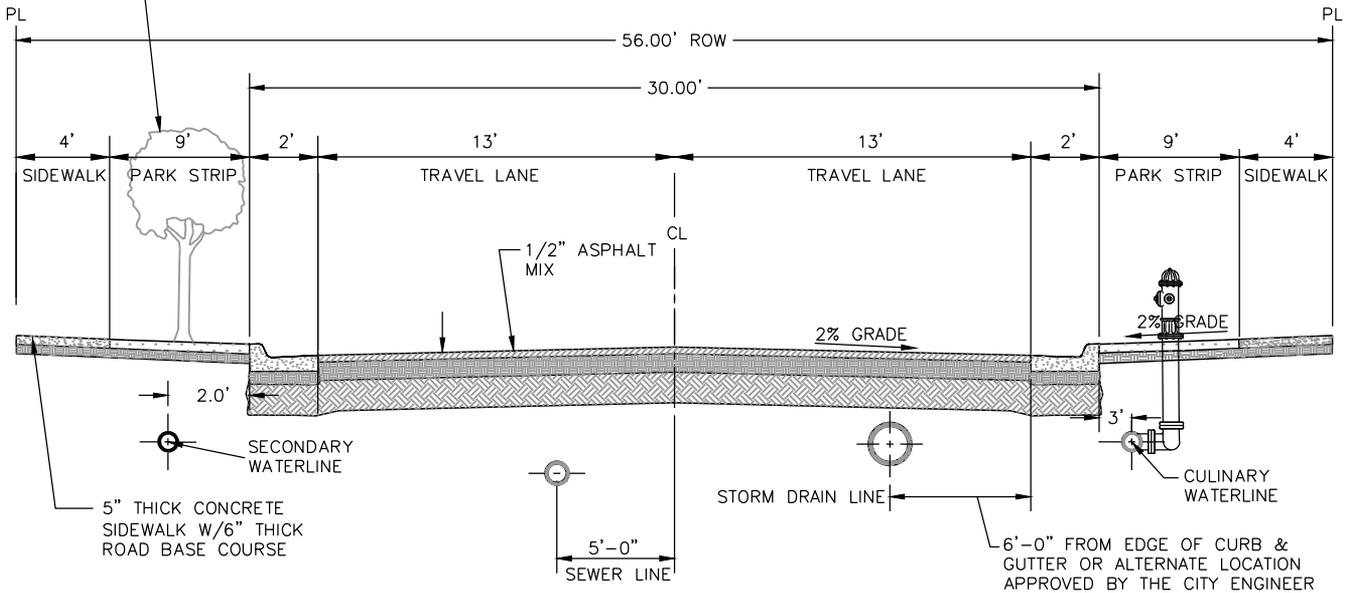


STANDARD DETAILS

STREET STANDARDS

**ST-8**

TREES SHALL MEET SPECIFICATIONS FOUND IN SECTION 02726. TREES ARE TO BE PLACED EVERY 50' ON BOTH SIDES OF THE ROAD. STAGGER LOCATIONS FROM ONE SIDE OF THE ROAD TO THE OTHER. GRADE "A" MINIMUM IN ALL APPLICATIONS.



**NOTES:**

1. THIS CROSS SECTION SHALL BE PERMITTED ONLY TO THE FOLLOWING SUBDIVISIONS: THE VILLAGES OF FOX HOLLOW NEIGHBORHOODS 6 AND 11 AND JACOBS RANCH PLAT N.
2. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
3. PAVEMENT DESIGN MAY BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER. LOCATION OF SIDEWALK AND CURB & GUTTER MAY VARY ON INDIVIDUAL ARTERIAL STREETS PER DIRECTION OF CITY ENGINEER.
4. ALL RESIDENTIAL STREETS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
5. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
6. INSTALL TYPE 2 SLURRY SEAL.
7. HOUSES MAY FRONT ON THESE STREETS.
8. THIS ROW CROSS SECTION SHALL BE PERMITTED FOR PRIVATE ROAD CROSS SECTIONS IN THE FOLLOWING ZONES: R-2, R-3 AND R-4.

**DESIGN CRITERIA**

DESIGN SPEED: 25 M.P.H.

MIN CENTERLINE RADIUS: 200' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 37

CREST K VALUE = 20

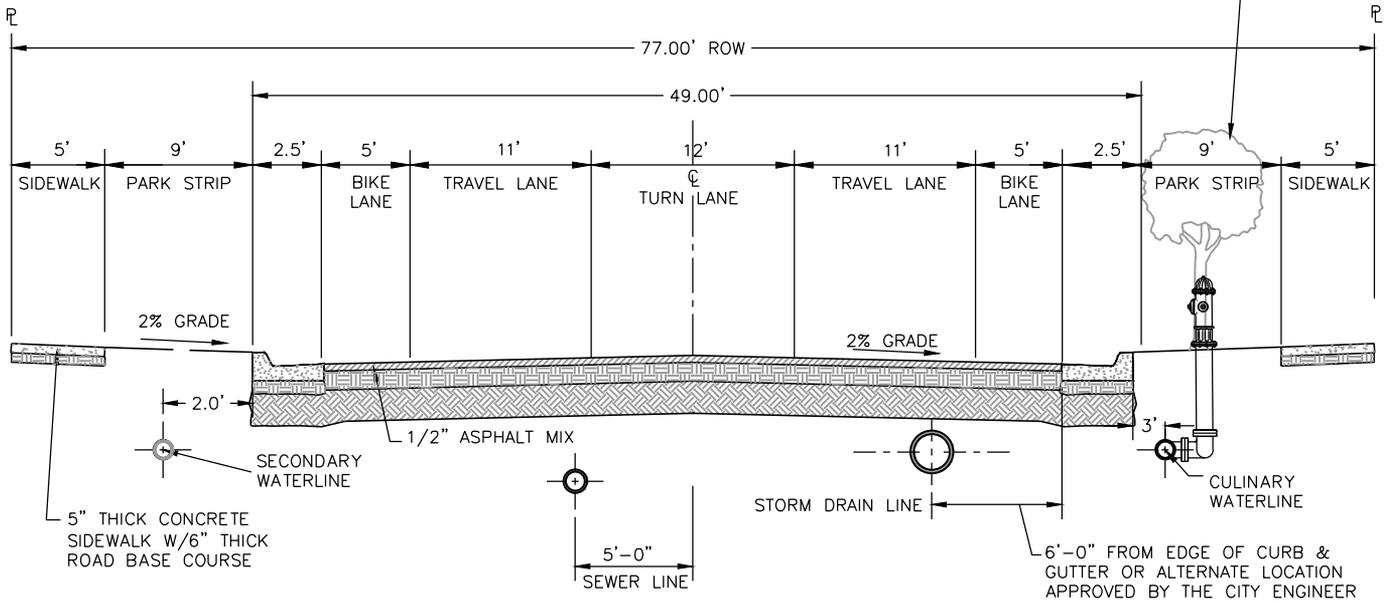
**RESIDENTIAL  
ROADWAY  
56' RIGHT-OF-WAY  
PREVIOUS STANDARD**

DATE: <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-8A</b>	REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-7669794



STANDARD DETAILS  
STREET STANDARDS  
**ST-8A**

TREES SHALL MEET SPECIFICATIONS FOUND IN SECTION 02726. TREES ARE TO BE PLACED EVERY 50' ON BOTH SIDES OF THE ROAD. STAGGER LOCATIONS FROM ONE SIDE OF THE ROAD TO THE OTHER. GRADE "A" MINIMUM IN ALL APPLICATIONS.



**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN SHALL BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER.
3. ALL COLLECTORS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. HOUSES ARE DISCOURAGED FROM FRONTING ON THESE STREETS.

**DESIGN CRITERIA**

DESIGN SPEED: 30 M.P.H.

MIN CENTERLINE RADIUS: 300' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 49

CREST K VALUE = 29

**COLLECTOR  
77' RIGHT OF WAY**

DATE: <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-9</b>	REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		
<small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794</small>		

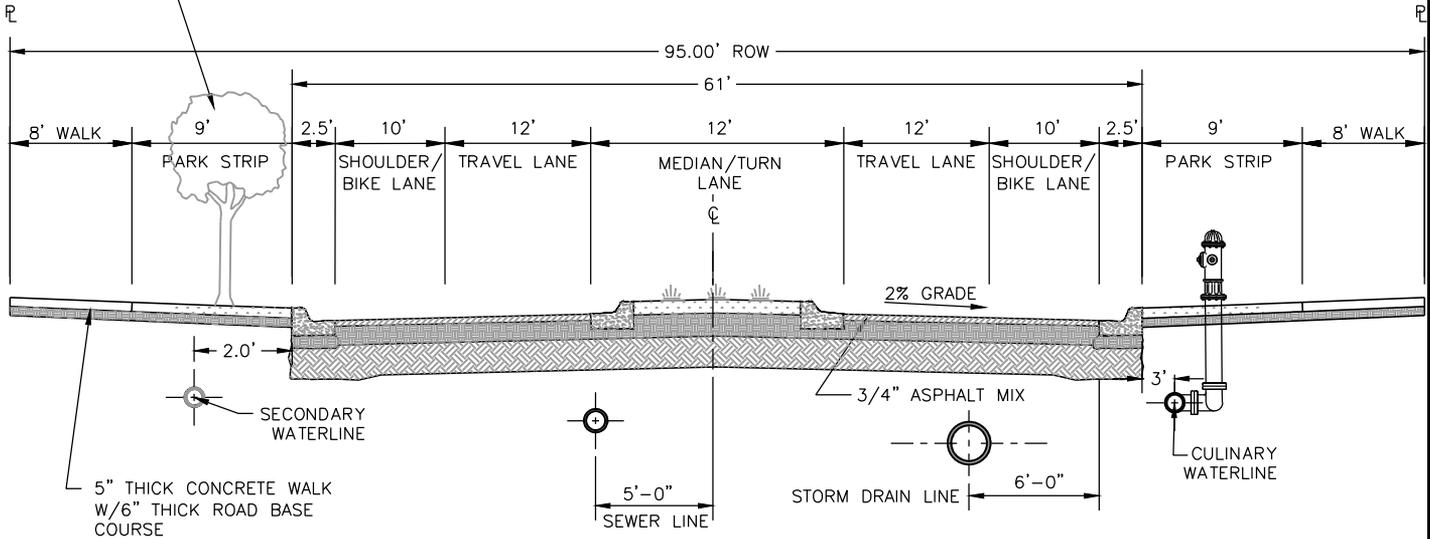


STANDARD DETAILS

STREET STANDARDS

**ST-9**

TREES SHALL MEET SPECIFICATIONS FOUND IN SECTION 02726. TREES ARE TO BE PLACED EVERY 50' ON BOTH SIDES OF THE ROAD. STAGGER LOCATIONS FROM ONE SIDE OF THE ROAD TO THE OTHER. GRADE "A" MINIMUM IN ALL APPLICATIONS.



**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN SHALL BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER.
3. ALL MINOR ARTERIALS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. COMMERCIAL OR INDUSTRIAL DRIVEWAYS CAN ENTER THIS ROADWAY, BUT ARE TO BE MINIMIZED.
7. HOUSES ARE NOT PERMITTED TO FRONT ON THESE STREETS.
8. PAVEMENT SECTION SHALL BE ADEQUATE FOR CONSTRUCTION TRAFFIC OR AN ALTERNATE ROUTE SHALL BE PROVIDED.

**DESIGN CRITERIA**

DESIGN SPEED: 40 M.P.H.

MIN CENTERLINE RADIUS: 565' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 64

CREST K VALUE = 44

**MINOR ARTERIAL  
95' RIGHT-OF-WAY**

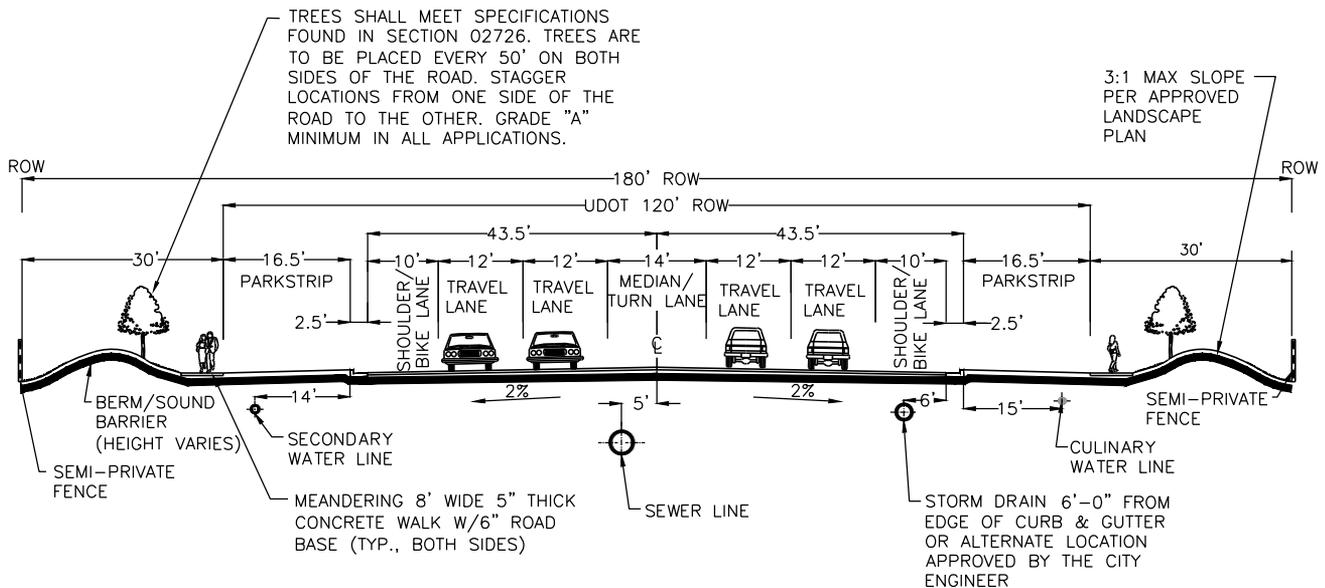
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DRAWING NAME: <b>ST-10</b>	REV DATE	BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-10**



**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN SHALL BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER.
3. ALL MAJOR ARTERIAL ROADWAYS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. HOUSES ARE NOT PERMITTED TO FRONT ON THESE STREETS.
7. ALL COMMERCIAL OR INDUSTRIAL ACCESSES ARE TO BE MINIMIZED.

**DESIGN CRITERIA**

DESIGN SPEED: 55 M.P.H.  
 MIN CENTERLINE RADIUS: 1190' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.  
 VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 115  
 CREST K VALUE = 114

**MAJOR  
 ARTERIAL ROADWAY  
 180' RIGHT-OF-WAY**

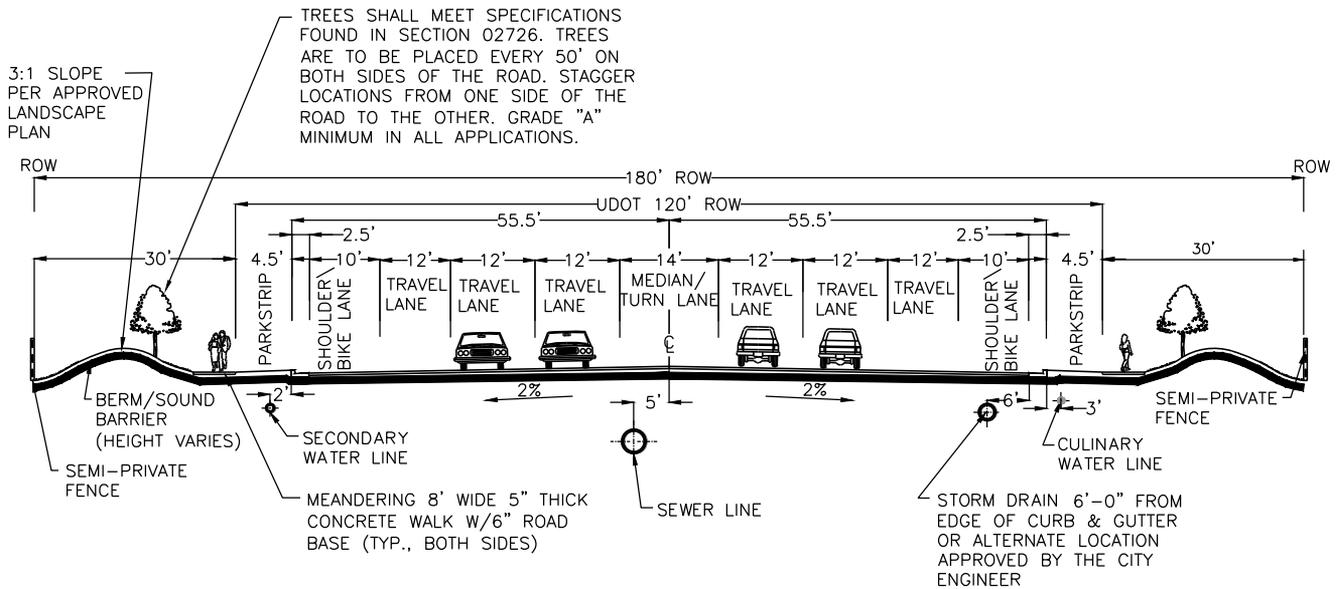
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DRAWING NAME: <b>ST-11</b>	DRAWN BY: <b>ETL</b>	REV	DATE BY COMMENTS
CHECKED:	APPROVED:		
<b>SARATOGA    SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	



STANDARD DETAILS

STREET STANDARDS

**ST-11**



**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN SHALL BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER.
3. ALL PRINCIPAL ARTERIAL ROADWAYS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. HOUSES ARE NOT PERMITTED TO FRONT ON THESE STREETS.
7. ALL COMMERCIAL OR INDUSTRIAL DRIVEWAY ARE TO BE MINIMIZED.

**DESIGN CRITERIA**

DESIGN SPEED: 55 M.P.H.

MIN CENTERLINE RADIUS: 1190' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 115  
CREST K VALUE = 114

**PRINCIPAL  
ARTERIAL ROADWAY  
180' RIGHT-OF-WAY**

DATE: <b>JANUARY 2015</b>	
DRAWING NAME: <b>ST-12</b>	
DRAWN BY: <b>ETL</b>	
CHECKED:	APPROVED:

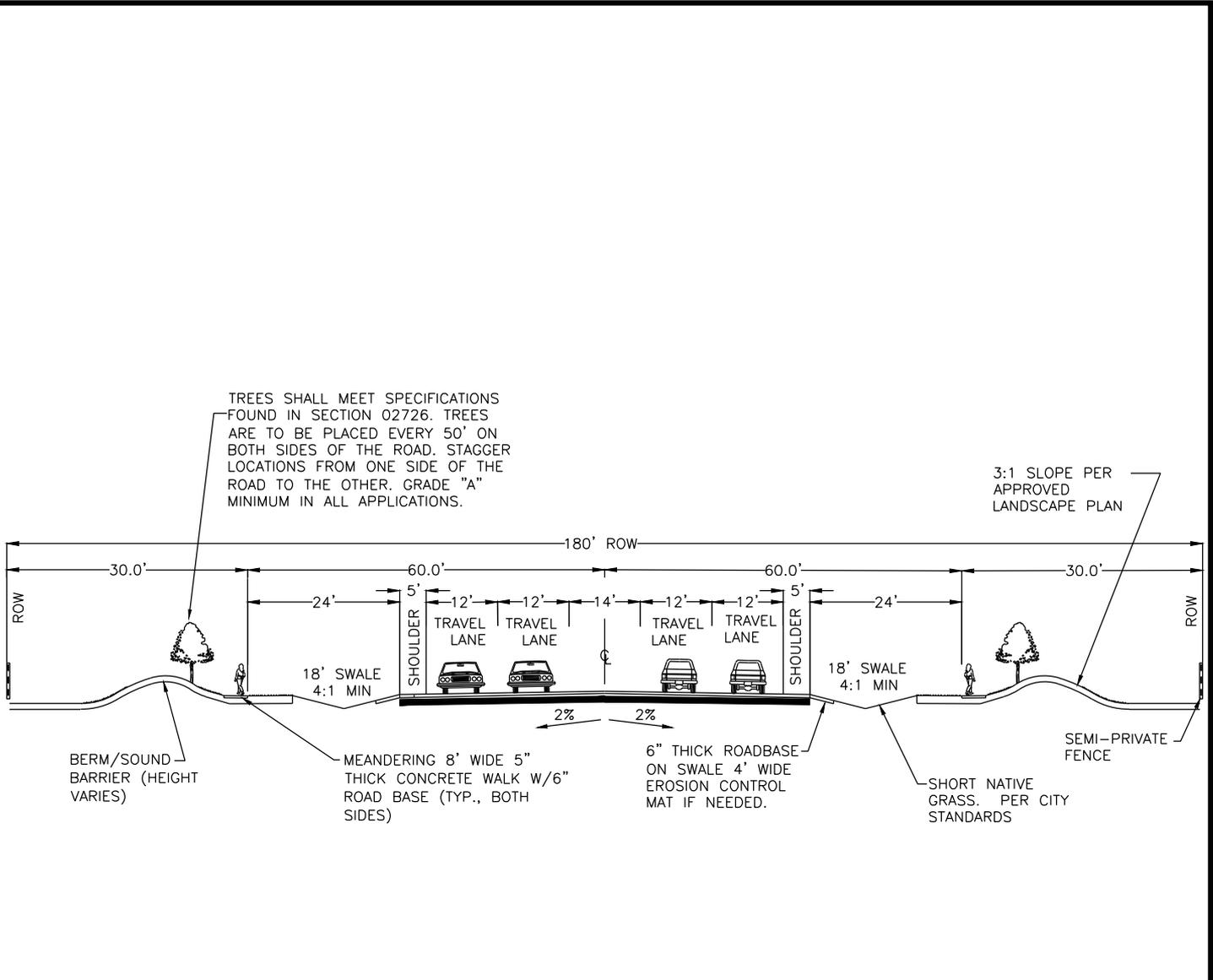
REVISIONS	
REV	COMMENTS

**SARATOGA  
SPRINGS CITY**

1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS
STREET STANDARDS
<b>ST-12</b>



TREES SHALL MEET SPECIFICATIONS FOUND IN SECTION 02726. TREES ARE TO BE PLACED EVERY 50' ON BOTH SIDES OF THE ROAD. STAGGER LOCATIONS FROM ONE SIDE OF THE ROAD TO THE OTHER. GRADE "A" MINIMUM IN ALL APPLICATIONS.

3:1 SLOPE PER APPROVED LANDSCAPE PLAN

BERM/SOUND BARRIER (HEIGHT VARIES)

MEANDERING 8' WIDE 5" THICK CONCRETE WALK W/6" ROAD BASE (TYP., BOTH SIDES)

6" THICK ROADBASE ON SWALE 4' WIDE EROSION CONTROL MAT IF NEEDED.

SHORT NATIVE GRASS. PER CITY STANDARDS

SEMI-PRIVATE FENCE

**NOTES:**

1. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
2. PAVEMENT DESIGN SHALL BE AS RECOMMENDED BY A SOILS REPORT AND A GEOTECHNICAL ENGINEER, AND AS APPROVED BY CITY ENGINEER.
3. ARTERIAL ROADWAYS SHALL CONFORM TO THE CROSS-SECTION DRAWING ABOVE WHEN EXISTING ROADWAY IS 3 LANES OR LESS.
4. PROVIDE A MINIMUM 6" THICKNESS OF 3/4" OR 1" CRUSHED GRAVEL BASE COURSE UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL.
6. HOUSES ARE NOT PERMITTED TO FRONT ON THESE STREETS.
7. ALL COMMERCIAL OR INDUSTRIAL DRIVEWAY ARE TO BE MINIMIZED.

**DESIGN CRITERIA**

DESIGN SPEED: 55 M.P.H.

MIN CENTERLINE RADIUS: 1190' MIN. UNLESS APPROVED OTHERWISE BY CITY ENGINEER.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 115  
CREST K VALUE = 114

**INTERIM 180'  
RIGHT-OF-WAY  
ARTERIAL STANDARD**

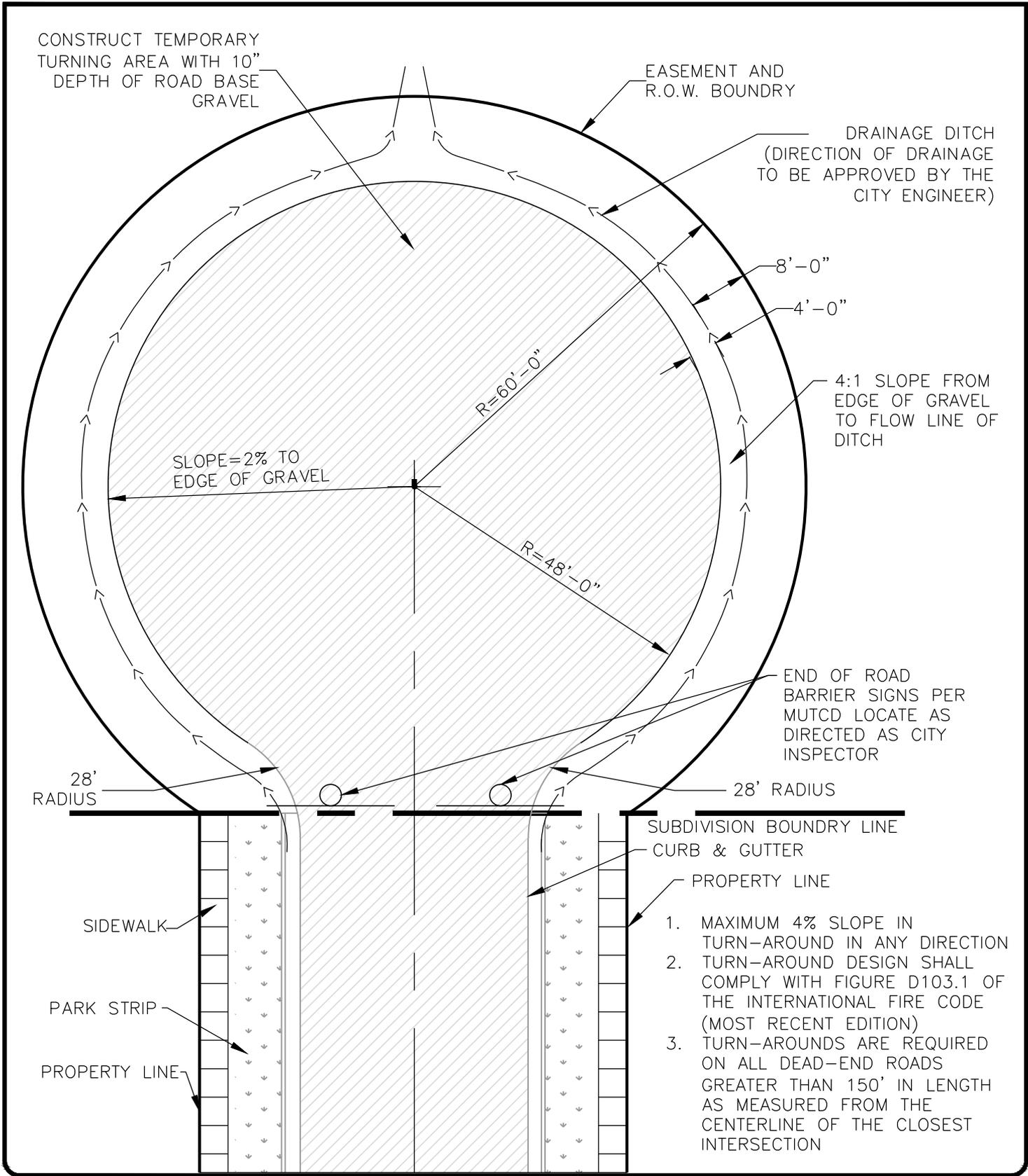
DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-13</b>	REV	DATE	BY
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:	COMMENTS	
SARATOGA SPRINGS CITY		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84015 PHONE: 801-766-9793 FAX: 801-669794	



STANDARD DETAILS

STREET STANDARDS

**ST-13**



**STANDARD TEMPORARY  
TURN AROUND**

DATE: <b>JANUARY 2015</b>	
DRAWING NAME: <b>ST-14</b>	
DRAWN BY: <b>ETL</b>	
CHECKED:	APPROVED:

REVISIONS			
REV	DATE	BY	COMMENTS
1	6-25-15	JW	FIRE CODE DIMENSION CHANGES

**SARATOGA  
SPRINGS CITY**

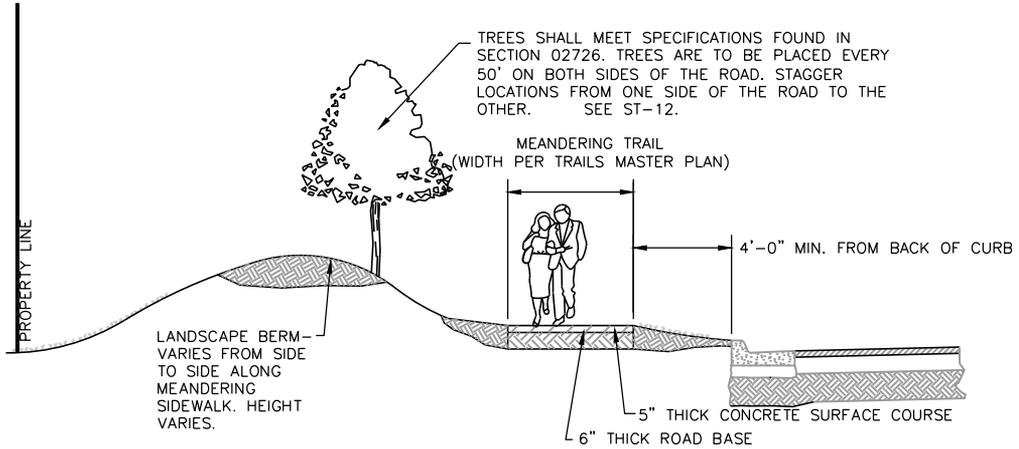
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-6793  
FAX: 801-766-6794



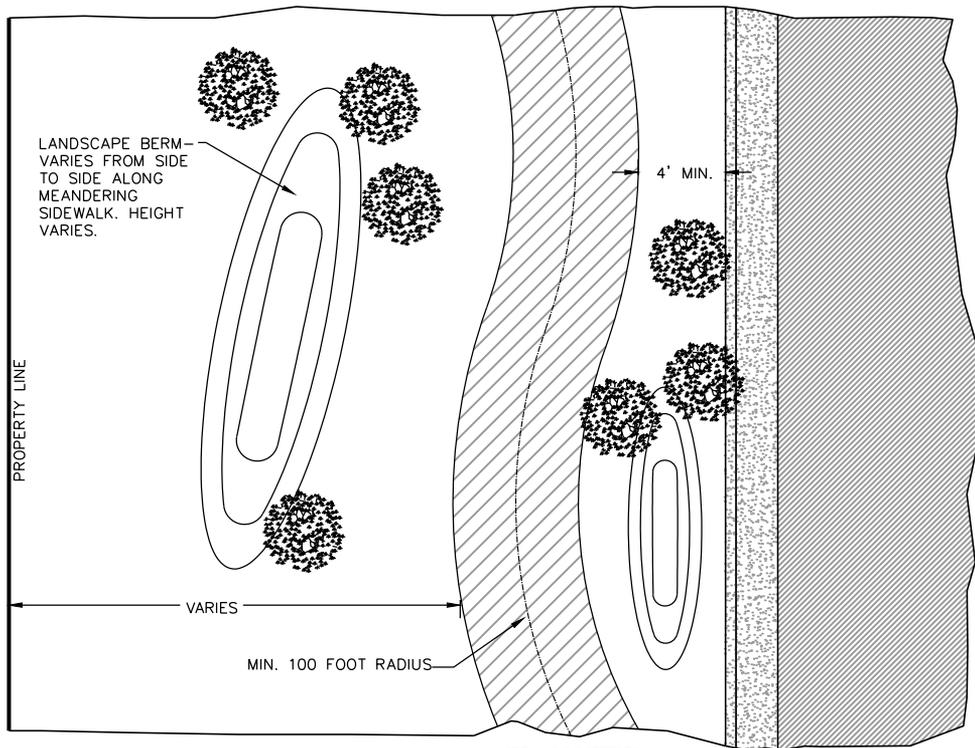
STANDARD DETAILS

STREET STANDARDS

**ST-14**



**SECTION VIEW**



**PLAN VIEW**

**NOTES:**

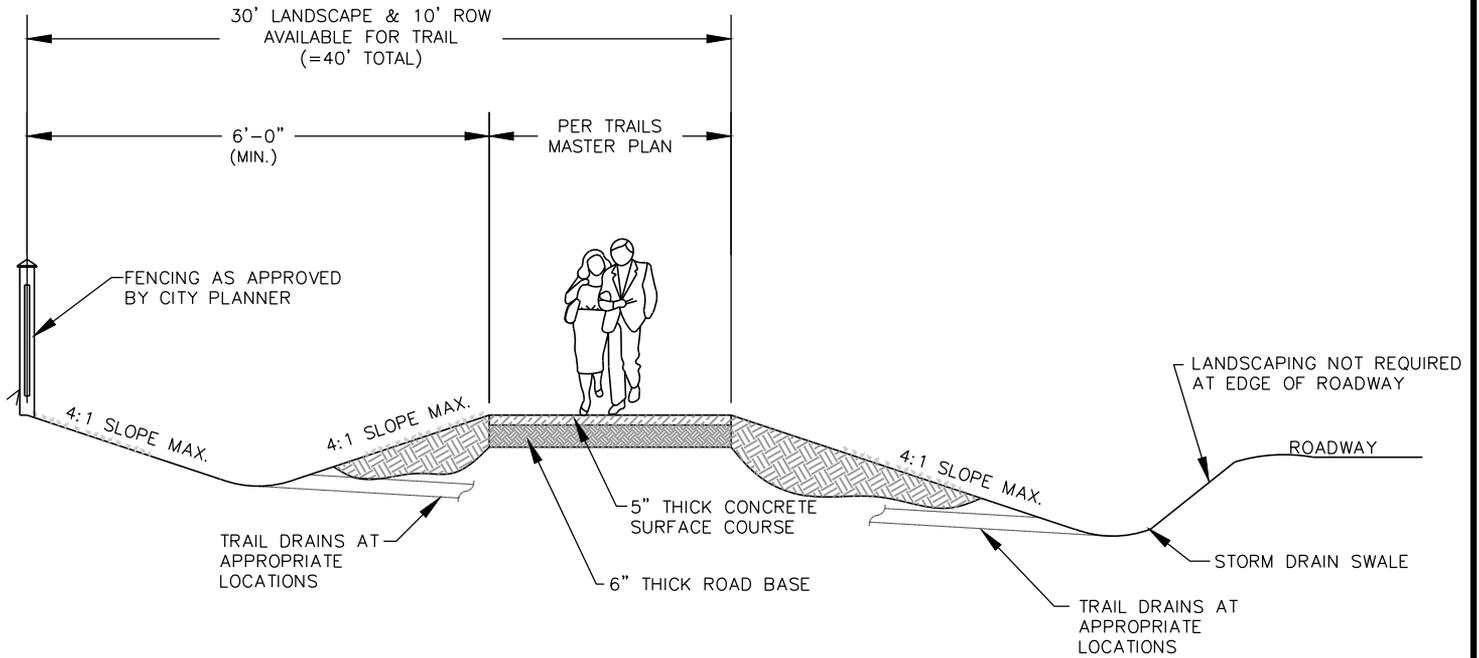
1. MEANDERING SIDEWALKS/TRAILS SHALL BE REQUIRED ON ARTERIAL STREETS.
2. CONSTRUCTION JOINTS @ 8' INTERVALS EXPANSION JOINTS @ 40' INTERVALS

**TRAIL STANDARDS**

DATE <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME <b>ST-15A</b>		REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:	<b>SARATOGA SPRINGS CITY</b> <small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794</small>	



STANDARD DETAILS
STREET STANDARDS
<b>ST-15A</b>



**NOTES:**

1. CONSTRUCTION JOINTS @ 8' INTERVALS EXPANSION JOINTS @ 40' INTERVALS

**TRAIL STANDARDS  
FOR INTERIM ROADS**

DATE:  
**JANUARY 2015**

DRAWING NAME:  
**ST-15B**

DRAWN BY:  
**ETL**

CHECKED: APPROVED:

REVISIONS

REV	DATE	BY	COMMENTS

**SARATOGA  
SPRINGS CITY**

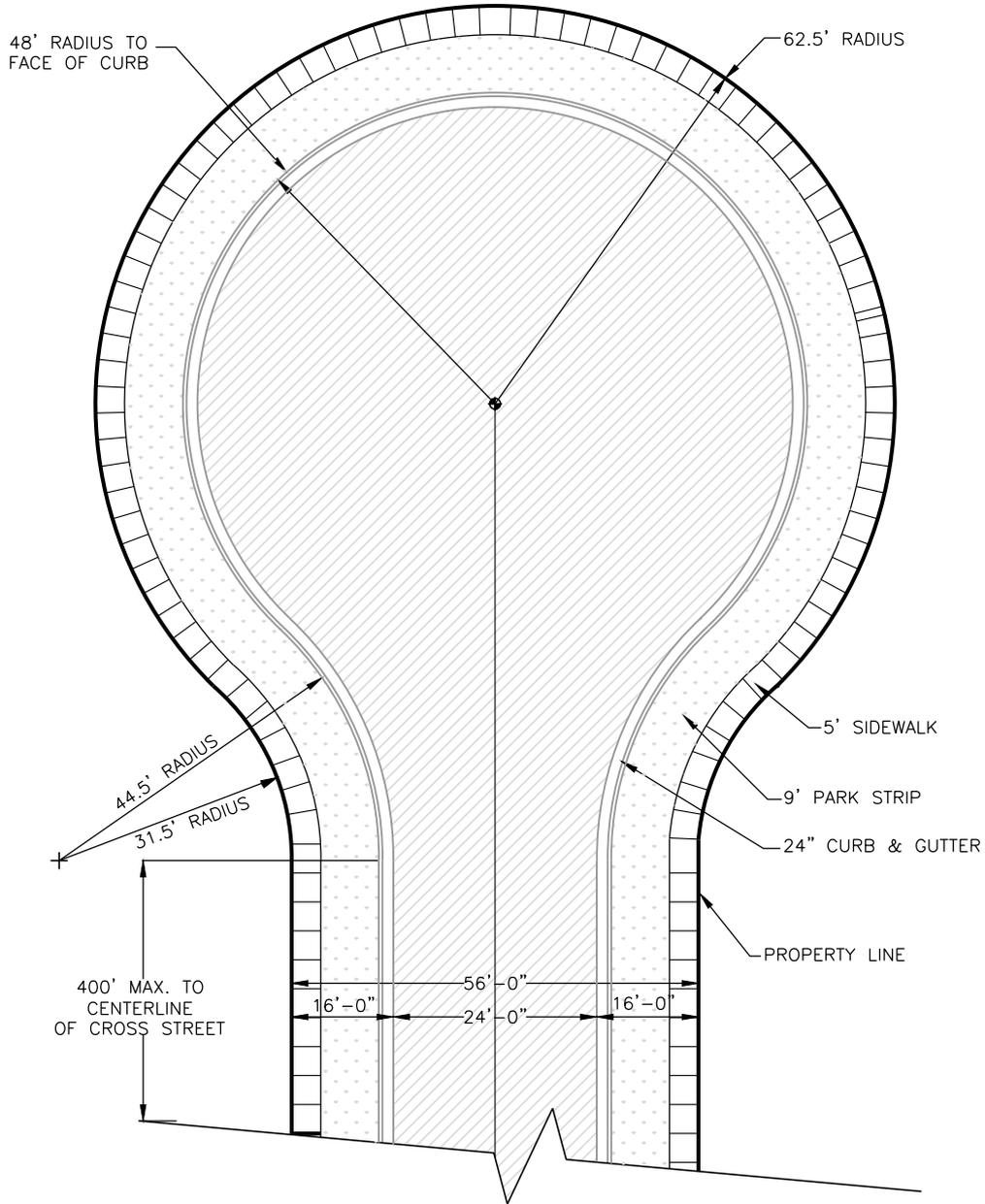
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-7669794



STANDARD DETAILS

STREET STANDARDS

**ST-15B**



**NOTE:**

- 1- MAXIMUM 4.0% SLOPE IN CUL-DE-SAC IN ANY DIRECTION
- 2- CUL-DE-SAC DESIGN SHALL COMPLY WITH FIGURE D103.1 OF THE INTERNATIONAL FIRE CODE (MOST RECENT EDITION)

**STANDARD  
CUL-DE-SAC**

DATE:  
**JANUARY 2015**

DRAWING NAME:  
**ST-16**

DRAWN BY:  
**ETL**

CHECKED: APPROVED:

REVISIONS

REV	DATE	BY	COMMENTS
1	6-24-15	JW	DIMENSION CHANGES
2	8-20-15	JW	DIMENSION CHANGES

**SARATOGA  
SPRINGS CITY**

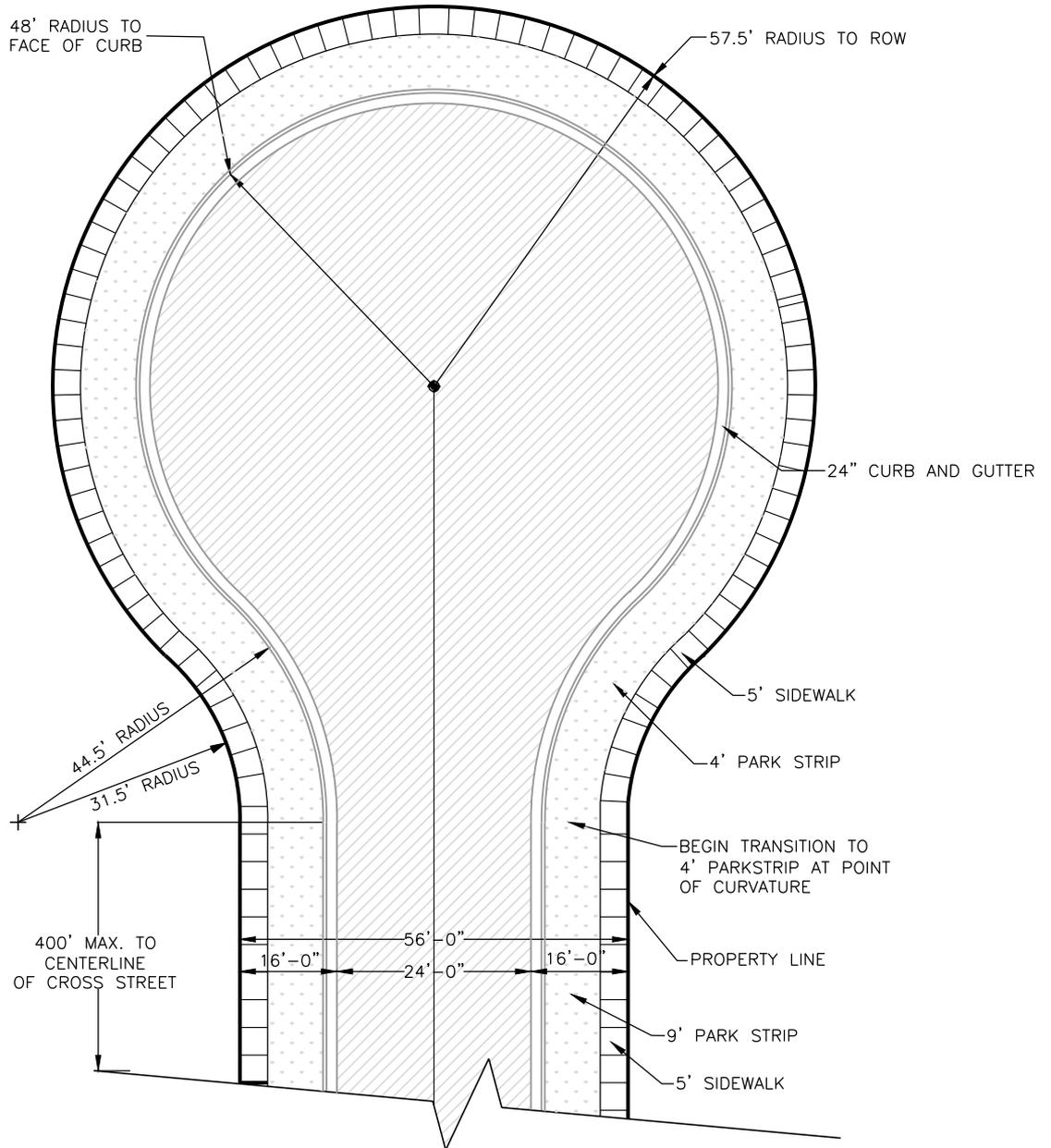
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-16**



**NOTE:**

- 1-THIS STANDARD APPLIES TO ALL PROJECTS THAT HAVE AN UNEXPIRED PRELIMINARY PLAT APPROVAL OR UNEXPIRED FINAL PLAT APPROVAL PRIOR TO JULY 23, 2015 AND DO NOT HAVE APPROVED CONSTRUCTION DRAWINGS BY THE EFFECTIVE DATE OF ORDINANCE 15-27 (9-15-15)
- 2-MAXIMUM 4.0% SLOPE IN CUL-DE-SAC IN ANY DIRECTION
- 3- CUL-DE-SAC DESIGN SHALL COMPLY WITH FIGURE D103.1 OF THE INTERNATIONAL FIRE CODE (MOST RECENT EDITION)

**MODIFIED  
CUL-DE-SAC**

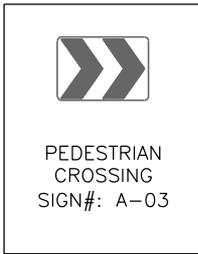
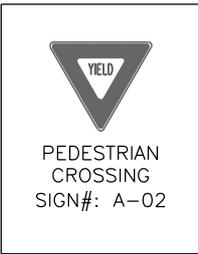
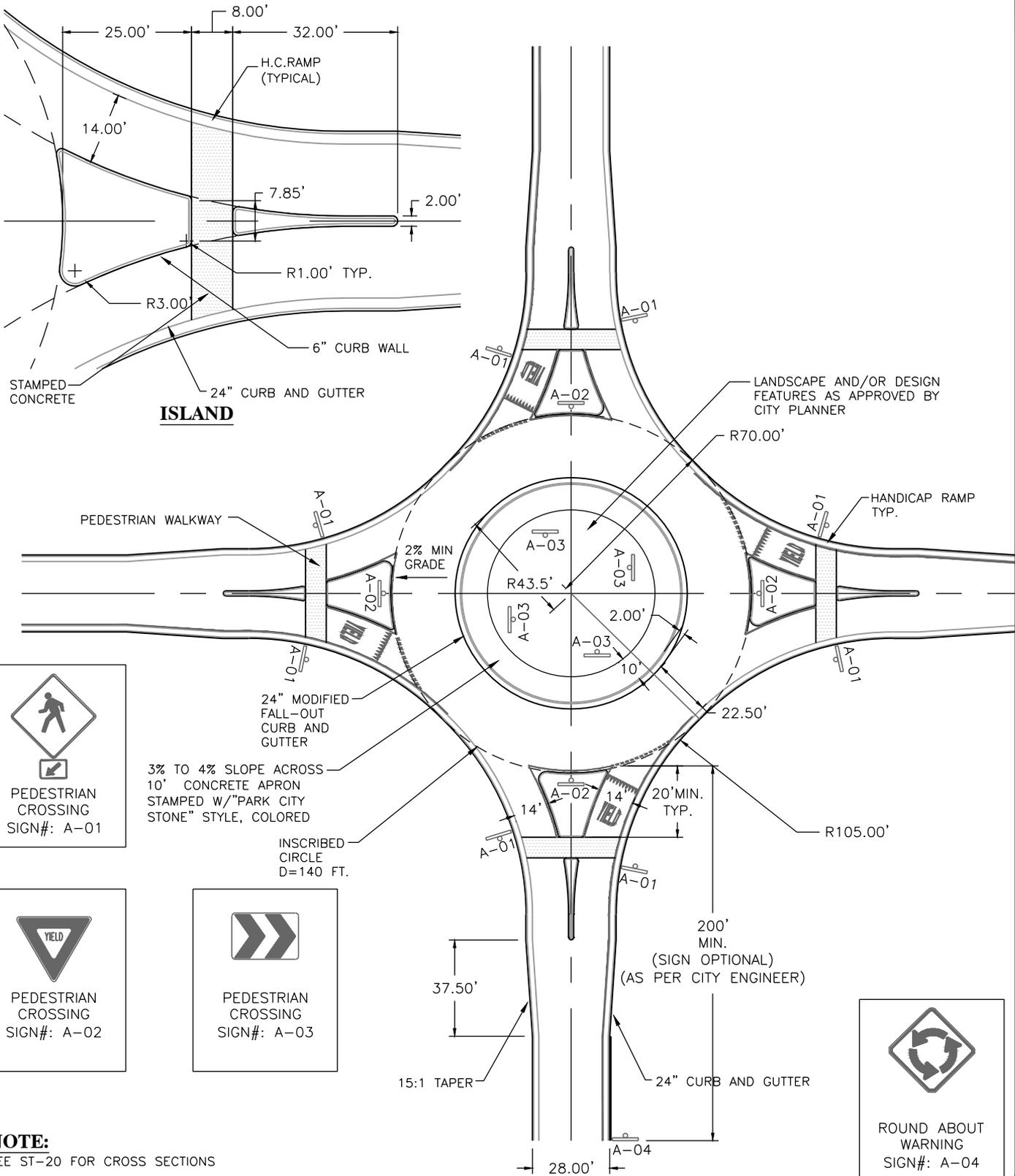
DATE: <b>AUGUST 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-16A</b>		REV	DATE
DRAWN BY: <b>JW</b>		BY	COMMENTS
CHECKED:	APPROVED:		
		<b>SARATOGA SPRINGS CITY</b>	



STANDARD DETAILS

STREET STANDARDS

**ST-16A**



**NOTE:**  
SEE ST-20 FOR CROSS SECTIONS

**ROUND-ABOUT  
RESIDENTIAL  
56' RIGHT-OF-WAY**

DATE: <b>JANUARY 2015</b>	REVISIONS		
DRAWING NAME: <b>ST-17</b>	REV	DATE	BY
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:		

**SARATOGA SPRINGS CITY**

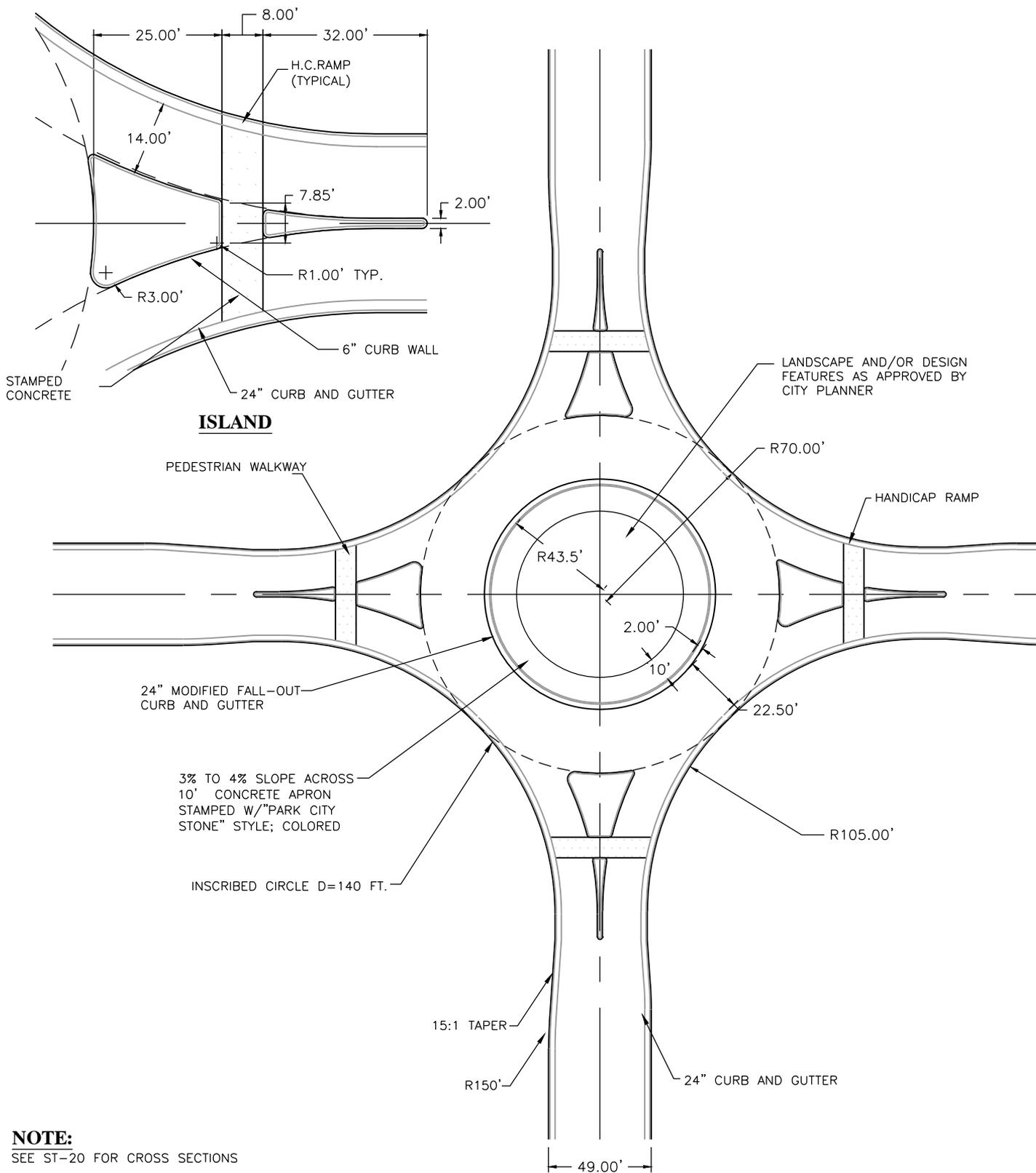
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
NY 12158  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-17**



**NOTE:**

SEE ST-20 FOR CROSS SECTIONS

**ROUND-ABOUT  
MINOR COLLECTOR-  
77' CROSS SECTION**

DATE: <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-18</b>	REV	DATE
DRAWN BY: <b>ETL</b>	BY	COMMENTS
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794



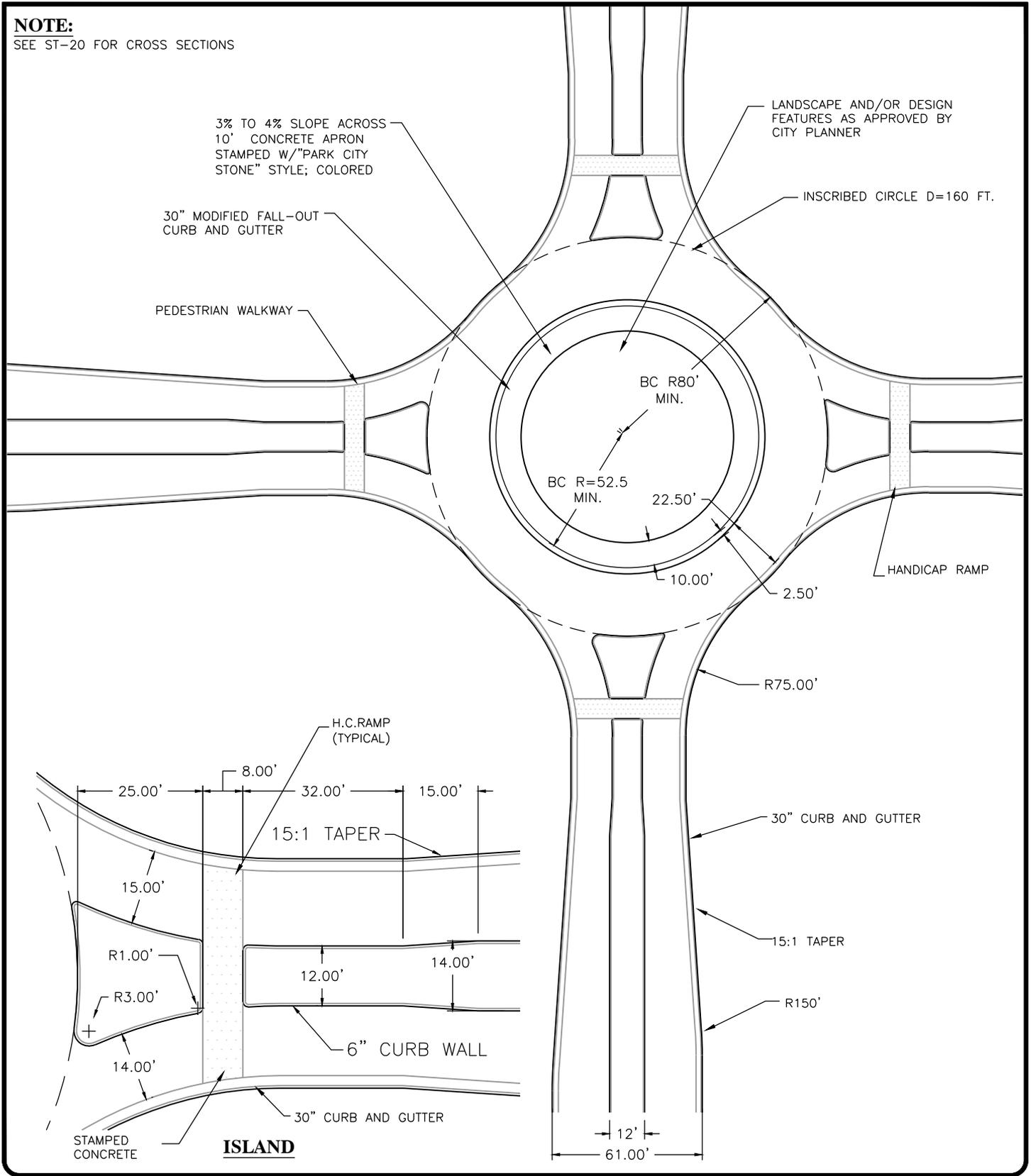
STANDARD DETAILS

STREET STANDARDS

**ST-18**

**NOTE:**

SEE ST-20 FOR CROSS SECTIONS



**ROUND-ABOUT  
95' MINOR ARTERIAL  
RIGHT- OF - WAY**

DATE: <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-19</b>	REV	DATE
DRAWN BY: <b>ETL</b>	BY	COMMENTS
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794



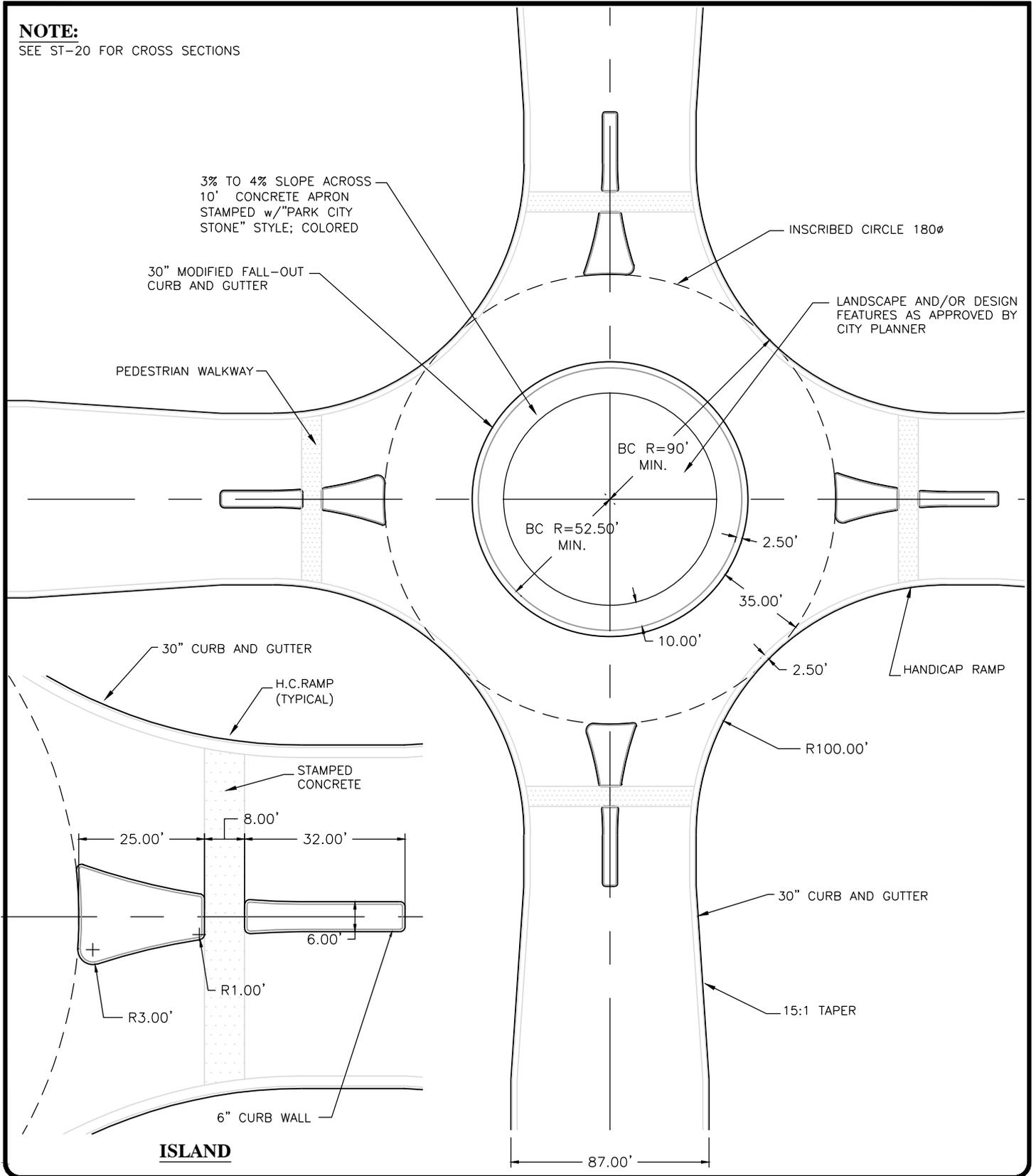
STANDARD DETAILS

STREET STANDARDS

**ST-19**

**NOTE:**

SEE ST-20 FOR CROSS SECTIONS



**ROUND-ABOUT  
MAJOR  
ARTERIAL COLLECTOR  
180' RIGHT-OF-WAY**

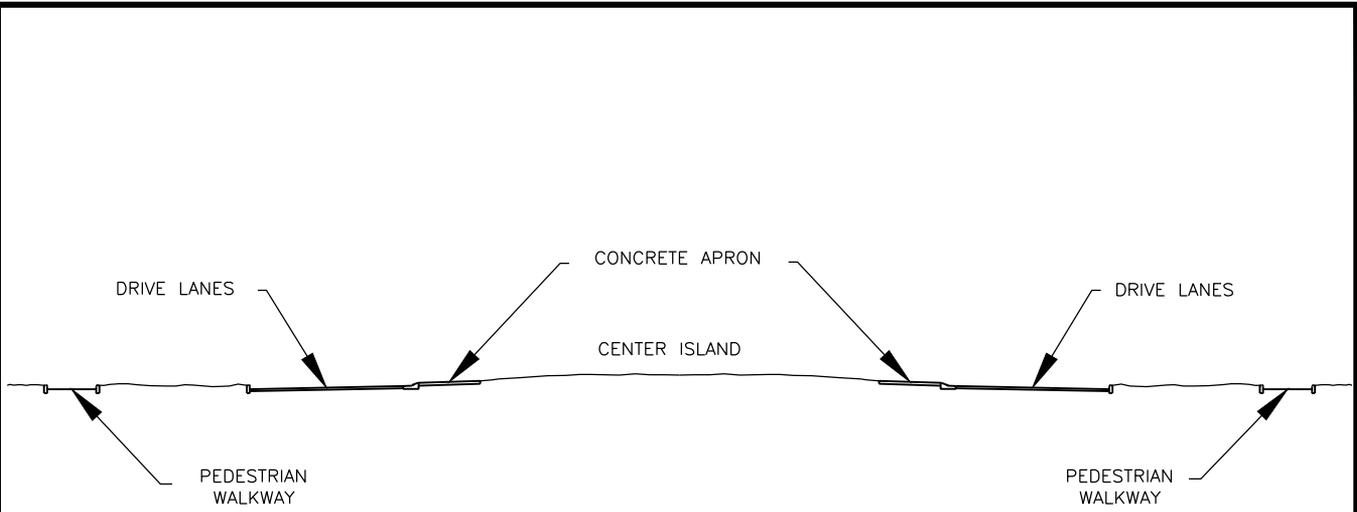
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DRAWING NAME: <b>ST-20</b>	REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	
<b>SARATOGA SPRINGS CITY</b>		
		1307 N. COMMERCE DR. #200 SARATOGA SPRINGS, UT 84045 PHONE: 801-786-9793 FAX: 801-7689794



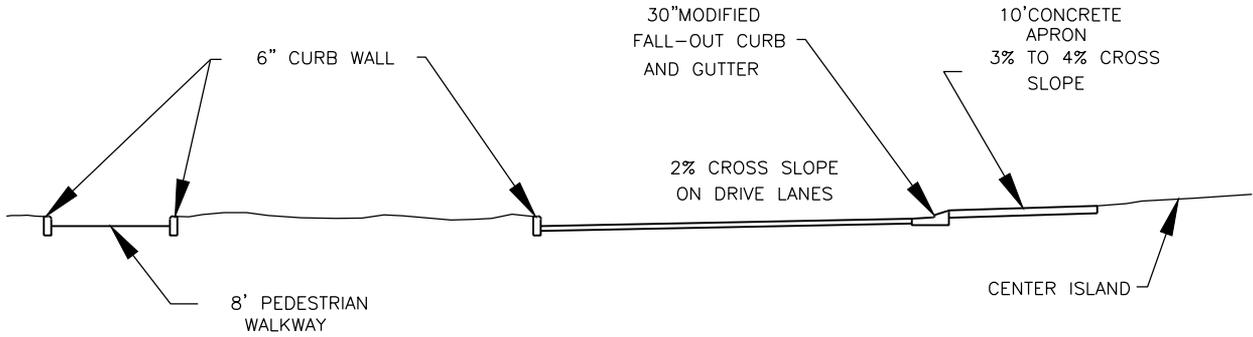
STANDARD DETAILS

STREET STANDARDS

**ST-20**



**FULL CROSS SECTION**



**HALF WIDTH CROSS SECTION**

**ROUND-ABOUT  
TYPICAL CROSS  
SECTION**

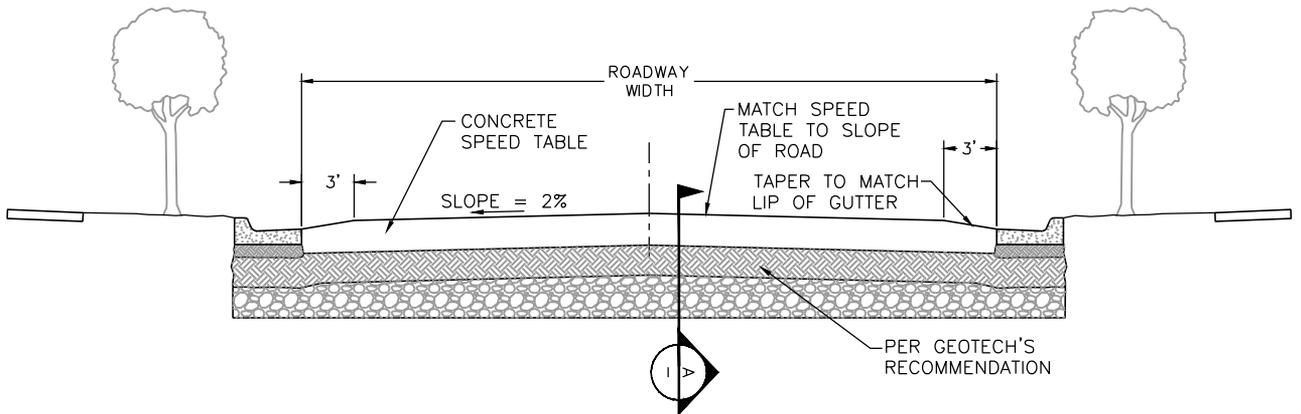
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DRAWING NAME: <b>ST-21</b>		REV	DATE
DRAWN BY: <b>ETL</b>		BY	COMMENTS
CHECKED:	APPROVED:		
<b>SARATOGA SPRINGS CITY</b>		1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-0793 FAX: 801-766-8794	



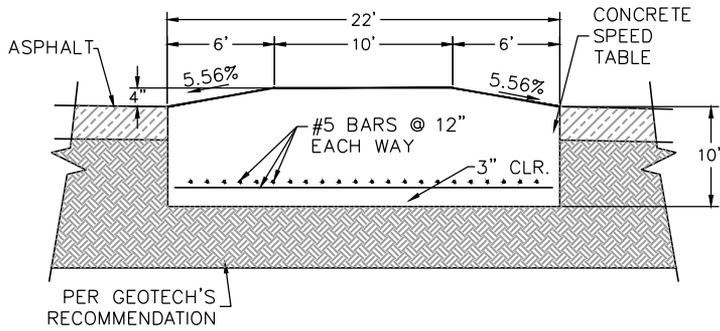
STANDARD DETAILS

STREET STANDARDS

**ST-21**



**TYPICAL - CROSS SECTION**



**SECTION A**  
NTS

**SPEED TABLE  
DETAIL**

DATE: <b>JANUARY 2015</b>
DRAWING NAME: <b>ST-22</b>
DRAWN BY: <b>ETL</b>
CHECKED: APPROVED:

REVISIONS			
REV	DATE	BY	COMMENTS

**SARATOGA  
SPRINGS CITY**

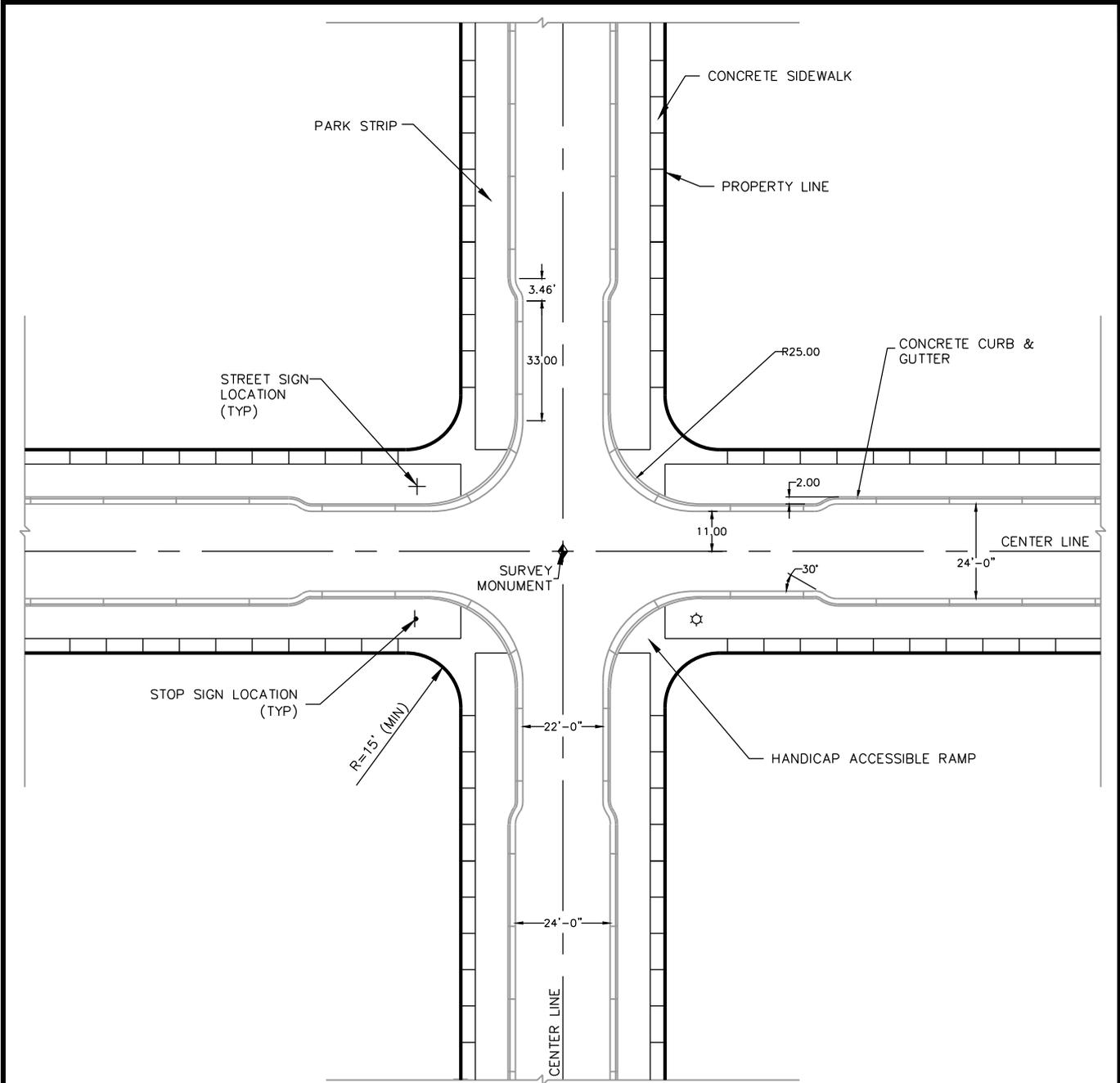
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-22**



**NOTES:**

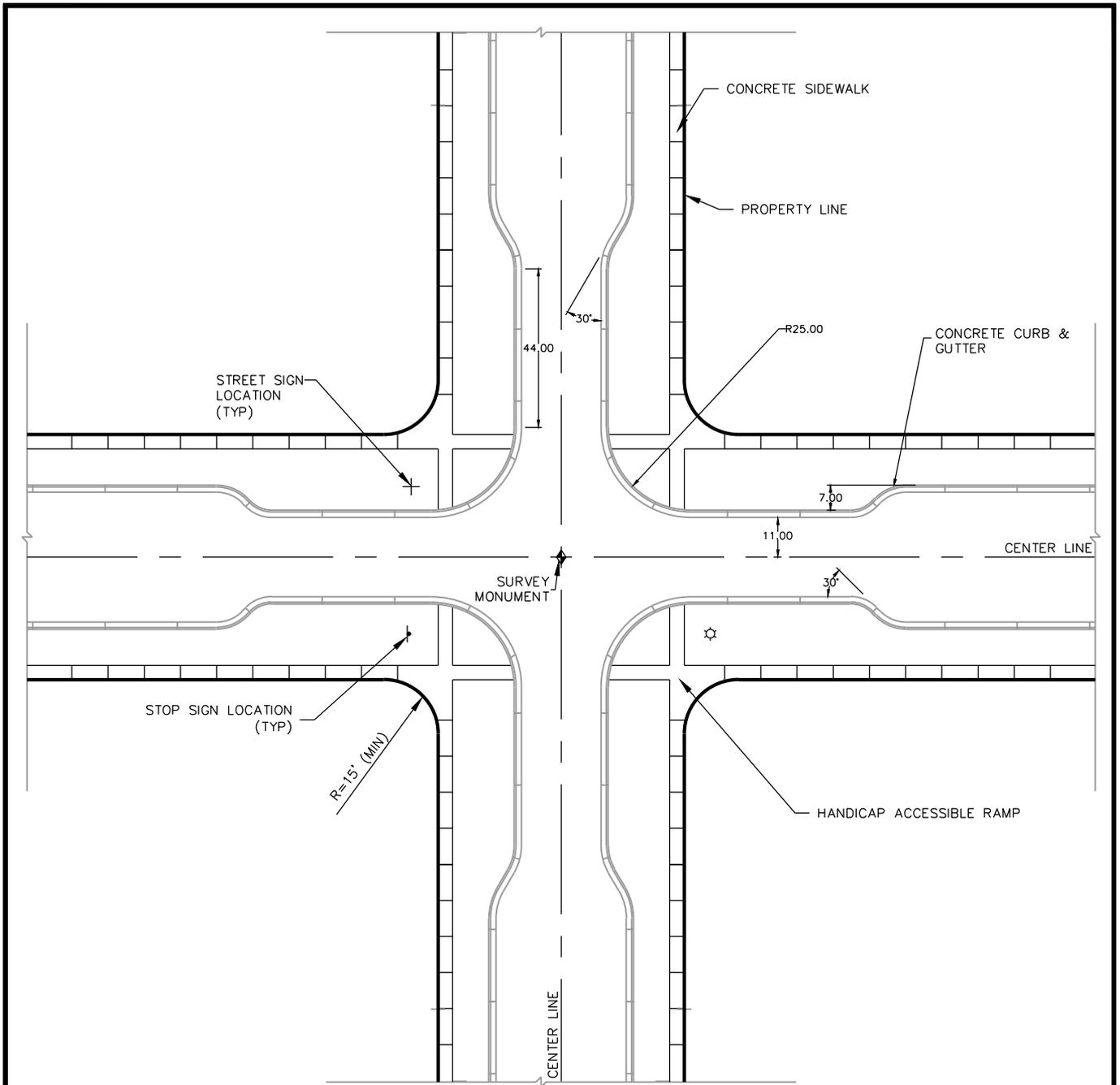
- 1. LAND DRAINS ARE UNACCEPTABLE UNLESS EXPLICITLY ALLOWED BY CITY ENGINEER. WHEN ALLOWED, PIPES SHALL NOT BE PERFORATED OR DESIGNED TO ACCEPT WATER WITHIN THE STREET RIGHT-OF-WAY.
- 2. CHECK ALL CITY STANDARDS FOR UTILITY LOCATIONS.

**56' ROW NECKED  
INTERSECTION  
DETAIL**

DATE: <b>JANUARY 2015</b>	DRAWING NAME: <b>ST-23</b>	DRAWN BY:	CHECKED:    APPROVED:										
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REVISIONS													
REV	COMMENTS												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;"> <b>SARATOGA SPRINGS CITY</b> </td> <td style="font-size: 8px; padding: 2px;">           1307 N. COMMERCE DR.            #200, SARATOGA SPRINGS,            UT 84045            PHONE: 801-766-0793            FAX: 801-766-0794         </td> </tr> </table>				<b>SARATOGA SPRINGS CITY</b>	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-0793 FAX: 801-766-0794								
<b>SARATOGA SPRINGS CITY</b>	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-0793 FAX: 801-766-0794												



STANDARD DETAILS
STREET STANDARDS
<b>ST-23</b>



**NOTES:**

1. LAND DRAINS ARE UNACCEPTABLE UNLESS EXPLICITLY ALLOWED BY CITY ENGINEER. WHEN ALLOWED, PIPES SHALL NOT BE PERFORATED OR DESIGNED TO ACCEPT WATER WITHIN THE STREET RIGHT-OF-WAY.
2. CHECK ALL CITY STANDARDS FOR UTILITY LOCATIONS.

**77' ROW NECKED  
INTERSECTION  
DETAIL**

DATE: <b>JANUARY 2015</b>
DRAWING NAME: <b>ST-24</b>
DRAWN BY: <b>ETL</b>
CHECKED: APPROVED:

REVISIONS	
REV	COMMENTS

**SARATOGA  
SPRINGS CITY**

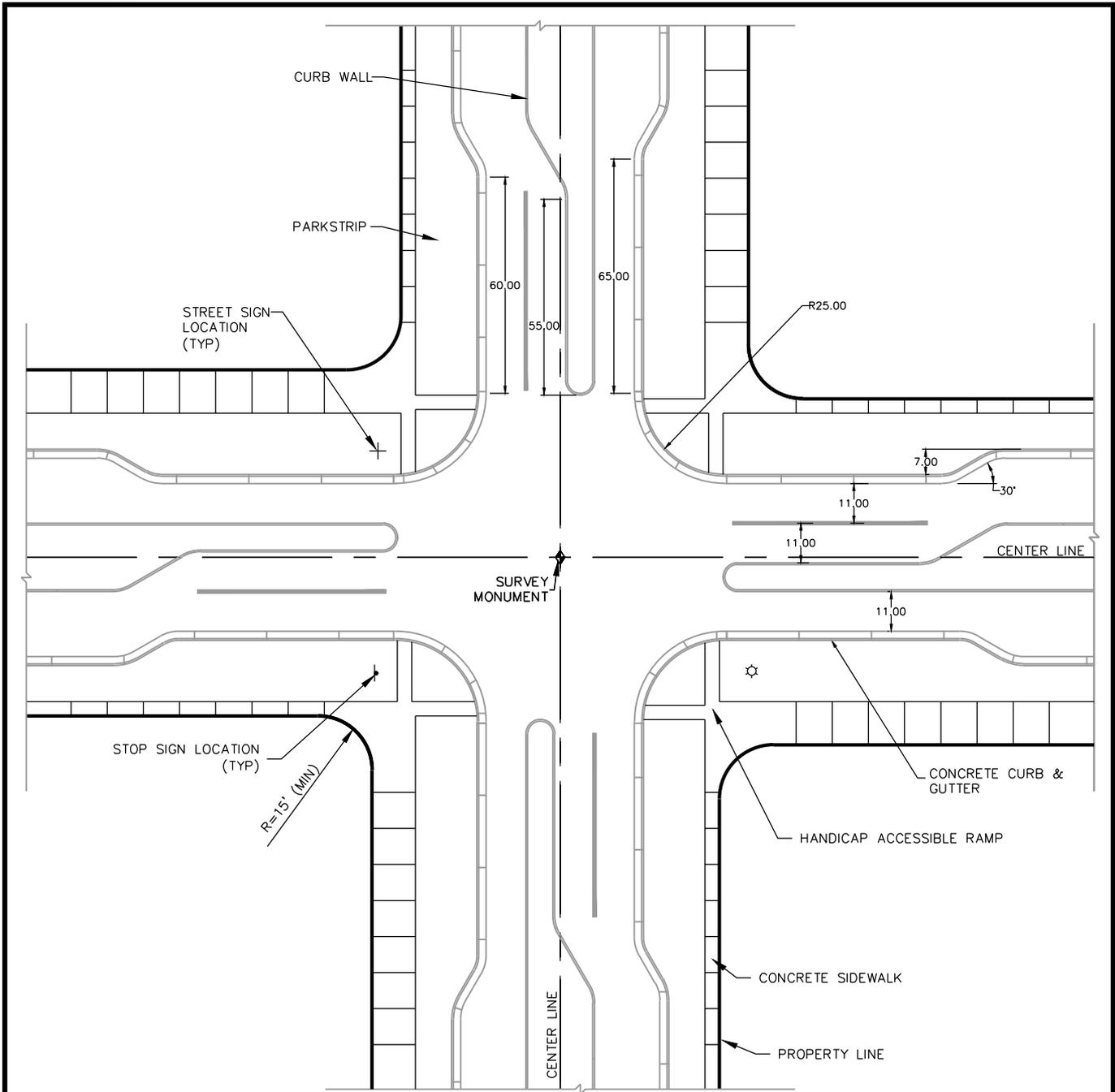
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
NY 12158  
PHONE: 801-765-9793  
FAX: 801-766-9794



STANDARD DETAILS

STREET STANDARDS

**ST-24**



**NOTES:**

1. LAND DRAINS ARE UNACCEPTABLE UNLESS EXPLICITLY ALLOWED BY CITY ENGINEER. WHEN ALLOWED, PIPES SHALL NOT BE PERFORATED OR DESIGNED TO ACCEPT WATER WITHIN THE STREET RIGHT-OF-WAY.
2. CHECK ALL CITY STANDARDS FOR UTILITY LOCATIONS.

**95' ROW NECKED  
INTERSECTION  
DETAIL**

DATE: <b>JANUARY 2015</b>
DRAWING NAME: <b>ST-25</b>
DRAWN BY:
CHECKED: APPROVED:

REVISIONS		
REV	DATE	BY

COMMENTS

**SARATOGA  
SPRINGS CITY**

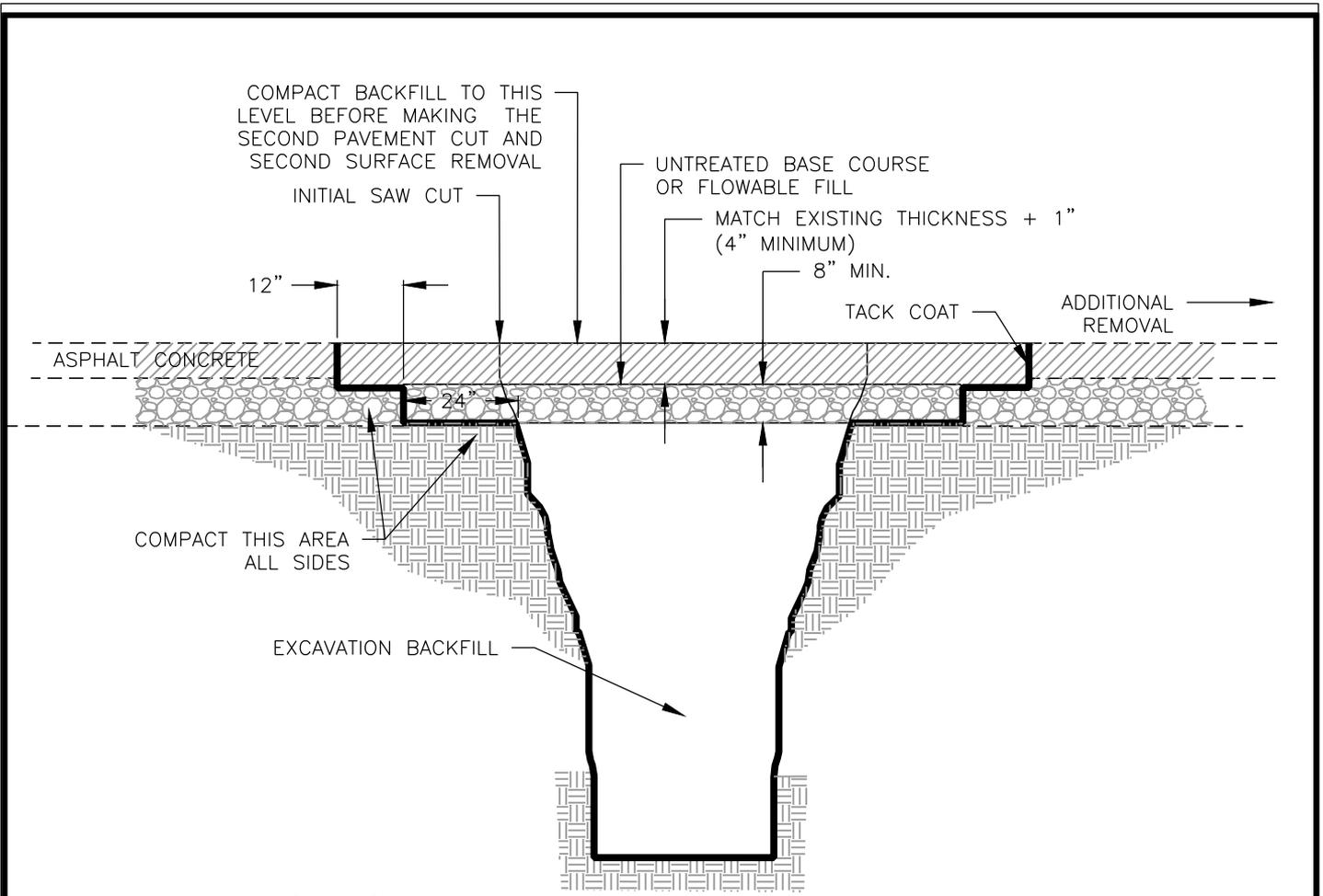
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-736-9793  
FAX: 801-7669794



STANDARD DETAILS

STREET STANDARDS

**ST-25**



## NOTES

- ADDITIONAL PAVEMENT REMOVAL: REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH OR AN EDGE OF THE PAVEMENT IF SUCH STREET FEATURE IS WITHIN 2 FEET OF THE SECOND SAW-CUT.
- FLOWABLE FILL: PROVIDE 28 DAYS 60 PSI CONTROLLED LOW STRENGTH MATERIAL AS SPECIFIED IN APWA SECTION 31 05 15. USE FILL MATERIAL WHICH FLOWS EASILY AND VIBRATION IS NOT REQUIRED. CURE TO INITIAL SET BEFORE PLACING AGGREGATE BASE OR ASPHALT PAVEMENT. USE FLOWABLE FILL IN EXCAVATIONS THAT ARE TOO NARROW TO RECEIVE COMPACTION EQUIPMENT.
- JOINT REPAIR: IF A CRACK OCCURS AT THE "T" PATCH CONNECTION TO EXISTING PAVEMENT OR AT ANY STREET FIXTURE, SEAL THE CRACK.
- PATCH REPAIR: REPAIR THE ASPHALT PAVEMENT PATCH IF ANY OF THE FOLLOWING CONDITIONS OCCUR WITHIN THE PATCH
  - PAVEMENT SURFACE DISTORTION EXCEEDS  $\frac{1}{4}$ " DEVIATION IN 10 FEET.  
REPAIR OPTION: PLANE OFF SURFACE DISTORTIONS. COAT PLANED SURFACES WITH CATIONIC OR ANIONIC EMULSION AND PROVIDE SAND BLOTTER.
  - CRACK AT LEAST 1-FOOT LONG AND  $\frac{1}{4}$  INCH WIDE OCCUR MORE OFTEN THAN 1 IN 10 SQUARE FEET.
  - REPAIR OPTION: CRACK SEAL.
  - ASPHALT RAVELING IS GREATER THAN 1 SQUARE FOOT PER 100 SQUARE FEET. REPAIR OPTION: MILL AND INLAY

## STANDARD TEE PATCH

DATE:  
**JANUARY 2015**

DRAWING NAME:  
**ST-26**

DRAWN BY:  
**ETL**

CHECKED: APPROVED:

### REVISIONS

REV	DATE	BY	COMMENTS
1	9/21/15	JW	FIX MULTI-LEADER TO UBC

SARATOGA  
SPRINGS CITY

1307 N. COMMERCE DR.  
#200 SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-6793  
FAX: 801-766-9794

STANDARD DETAILS

STREET STANDARDS

**ST-26**

**NOTES:**

1. MARKERS MUST BE PLACED AT ALL "OFFSITE" UTILITIES. PLACE AT MANHOLES AND EVERY 500' ON ALL UNDERGROUND UTILITIES.
2. MANHOLE MARKERS: MARKERS SHALL BE MANUFACTURED OF FIBER REINFORCED COMPOSITE MATERIAL. THAT REINFORCEMENT SHALL BE COMPRISED OF BOTH LINEAL STRANDS AND HORIZONTAL MESH MATS. MARKERS SHALL BE FLAT WITH ROUNDED RIB DOWN THE CENTER AND RAILS ON EACH SIDE; SHALL BE AT LEAST 3-3/4" WIDE AND AT LEAST 66" TALL.
3. MARKERS SHALL BE CAPABLE OF WITHSTANDING A MINIMUM OF 10 VEHICLE IMPACTS AT 55 MPH WITH A CAR BUMPER.
4. MARKERS SHALL BE COATED WITH A COLORED COATING THAT WILL TOTALLY PREVENT ULTRA-VIOLET LIGHT FROM REACHING THE RESIN PORTION OF THE MARKER. COATING SHALL NOT FADE, PEEL, OR BLISTER AFTER A MINIMUM OF 2000 HOURS IN A QUV WEATHEROMETER.
5. STANDARD SIZE, HIGH VISIBILITY DECALS SHALL BE PLACED ON EACH SIDE OF THE MARKER. THE DECALS SHALL INCLUDE: THE INTERNATIONAL "NO-DIG" SYMBOL; FEDERAL LAW WARNING TO DETER VANDALS; THE WARNING MESSAGE, TO INCLUDE "WARNING", THE TYPE OF UTILITY AND "SARATOGA SPRINGS, CALL 776-9793.
6. COLORS SHALL BE AS FOLLOWS PER APWA SPECIFICATIONS:  
 RED: ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES  
 YELLOW: GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS  
 ORANGE: COMMUNICATIONS, ALARM, SIGNAL, CABLES OR CONDUITS  
 BLUE: POTABLE WATER  
 PURPLE: RECLAIMED WATER, IRRIGATION AND SLURRY LINES  
 GREEN: SEWER AND STORM DRAIN LINES

**UTILITY MARKERS**

DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-27</b>		REV	DATE
DRAWN BY: <b>ETL</b>		BY	COMMENTS
CHECKED:	APPROVED:		
		<b>SARATOGA SPRINGS CITY</b>	
		<small>1307 N. COMMERCE DR.          8200, SARATOGA SPRINGS,          UT 84045          PHONE: 801-766-9793          FAX: 801-769-0794</small>	

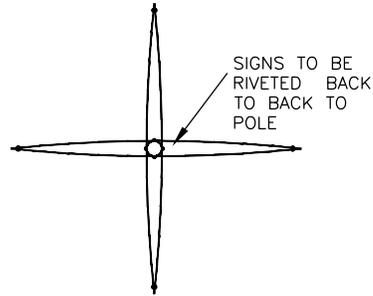


STANDARD DETAILS

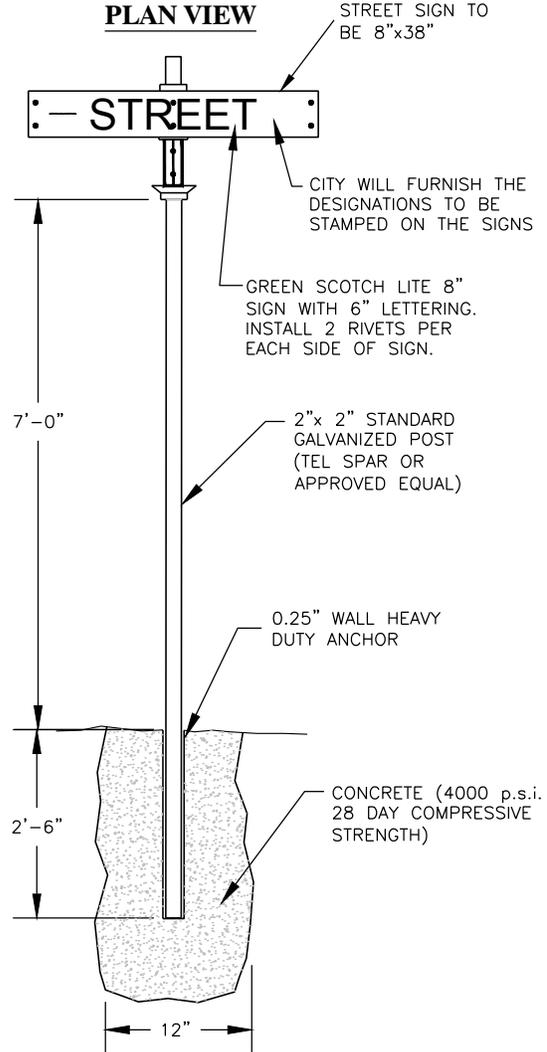
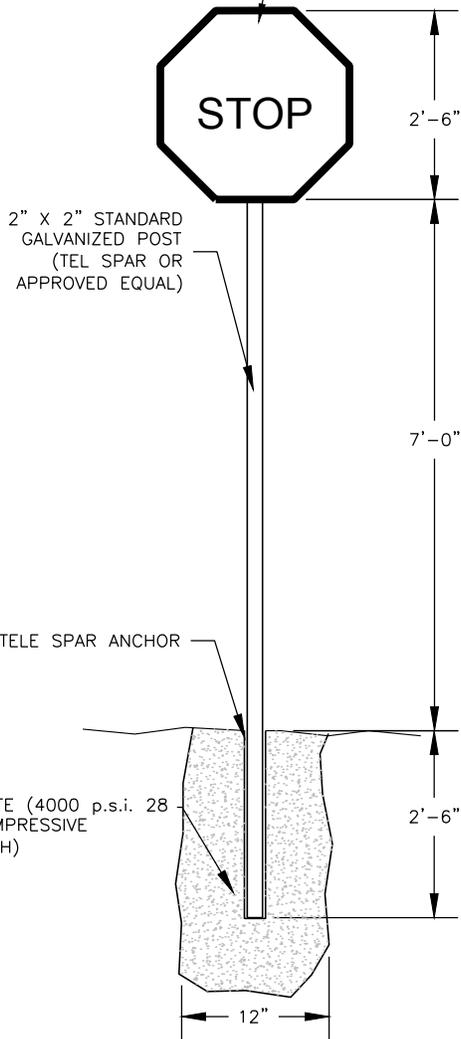
STREET STANDARDS

**ST-27**

SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"



**PLAN VIEW**



**NOTES:**

1. SECURE CITY'S APPROVAL OF SIGN FORMAT AND INSTALLATION.
2. INSTALL THE EDGE OF THE SIGN TWO FEET FROM THE VERTICAL EXTENSION OF THE BACK OF CURB AS NEAR AS POSSIBLE TO THE APPROACH CURB POINT OF CURVATURE. SIGNS SHOULD NOT OVERHANG SIDEWALK OR CURB & GUTTER.
3. ALL STREET SIGNS (STOP, SPEED, ETC.) SHALL BE 7' MINIMUM FROM GROUND TO BOTTOM OF SIGN.
4. ALL STREET SIGNS TO BE COATED WITH 3M-HIGH INTENSITY SHEETING, OR ACCEPTABLE EQUAL.
5. PRIVATE STREET SIGNS TO HAVE BLUE BACKGROUND.

**STREET AND REGULATORY SIGNS**

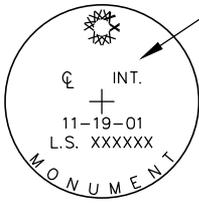
DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-28</b>		REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		1	11-4-15 JW CLARIFICATION OF STREET SIGN SIZING
CHECKED:	APPROVED:	<b>SARATOGA SPRINGS CITY</b> <small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-0793 FAX: 801-766-9794</small>	



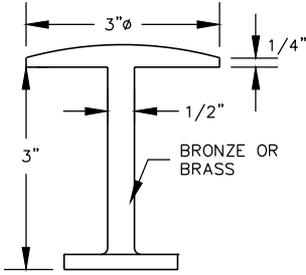
STANDARD DETAILS

STREET STANDARDS

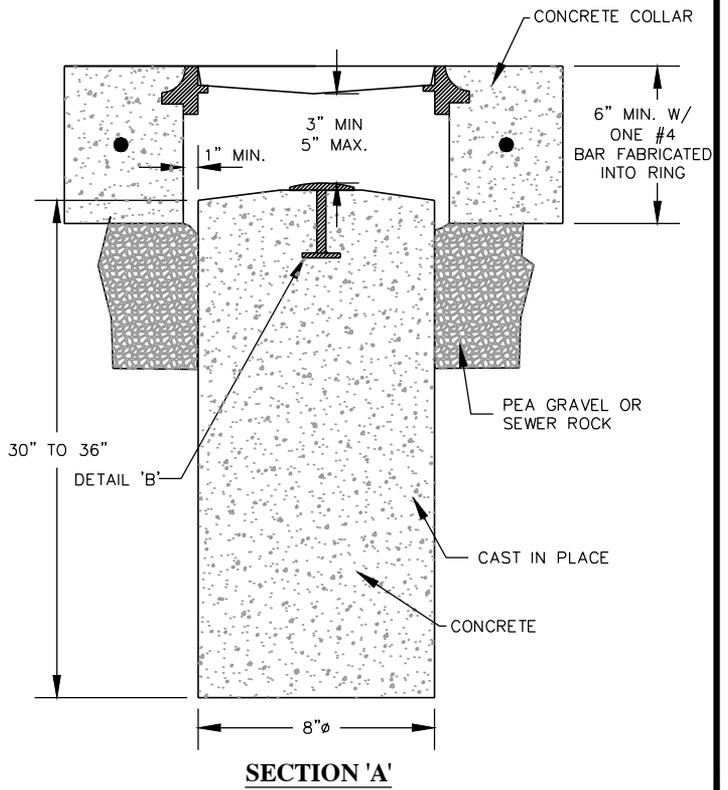
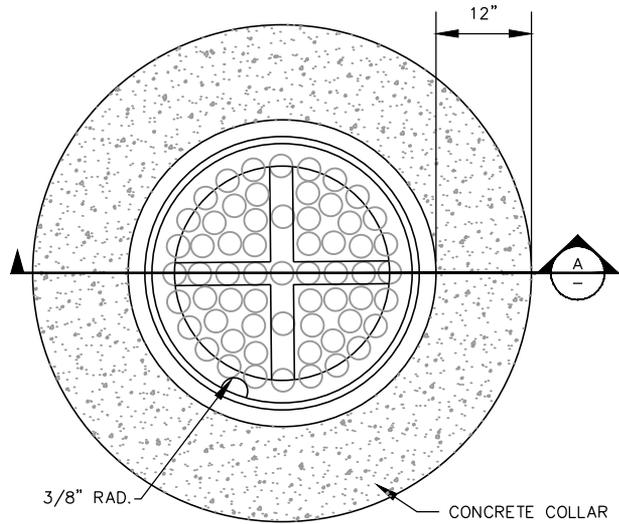
**ST-28**



SEE APWA DWG. #272 FOR DETAILS REGARDING INFORMATION TO BE STAMPED ON MONUMENT CAP



**DETAIL 'B'**



**NOTES:**

ALL WORK SHALL CONFORM TO APWA STANDARDS UNLESS OTHERWISE APPROVED BY CITY ENGINEER

**SURVEY MONUMENT**

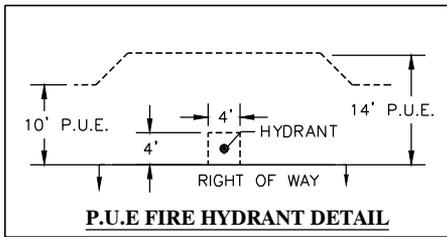
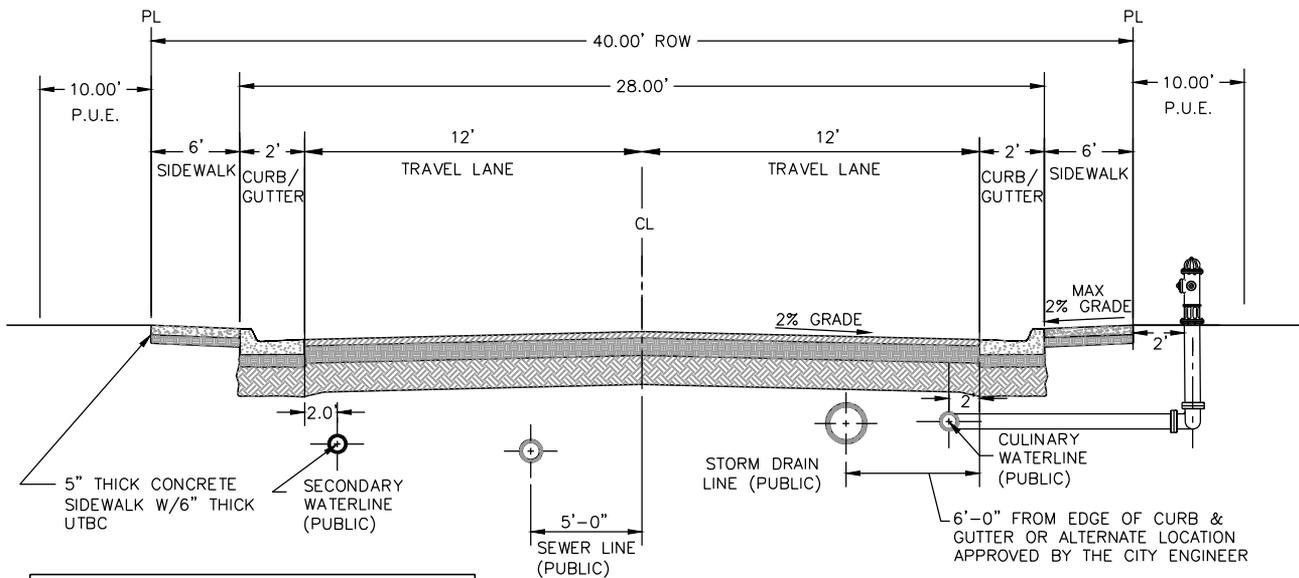
DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-29</b>		REV.	COMMENTS
DRAWN BY: <b>ETL</b>			
CHECKED:	APPROVED:	<b>SARATOGA SPRINGS CITY</b> <small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, NY 12865 PHONE: 801-766-9793 FAX: 801-766-9794</small>	



STANDARD DETAILS

STREET STANDARDS

**ST-29**



**NOTES:**

1. THIS ROW CROSS SECTION SHALL BE PERMITTED FOR PRIVATE ROAD CROSS SECTIONS IN THE FOLLOWING ZONES: R-10, R-14, R-18, NC, MU, RC, OW, I, ML, BP, PC, AND IC.
2. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
3. PAVEMENT DESIGN SHALL BE BASED ON BY A SOILS REPORT AS PER CITY STANDARDS.
4. PROVIDE A MINIMUM 6" THICKNESS UTBC UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL ON ALL HMA UPON COMPLETION OF PAVING AND PRIOR TO ACCEPTANCE OF ROADS.
6. HOUSES MAY FRONT ON THESE STREETS.
7. MODIFIED CURB AND GUTTER MAY BE PERMITTED ONLY WHEN THE SPACING BETWEEN DRIVEWAYS IS LESS THAN 50 FEET AS MEASURED FROM EDGE TO EDGE. IF MODIFIED CURB AND GUTTER IS PERMITTED, THE TRAVEL LANES SHALL BE REDUCED TO 11.5' TO ACCOMMODATE LONGER CURB AND GUTTER CROSS SECTION.
8. P.U.E. SHALL JOG AROUND ALL HYDRANT LOCATIONS.

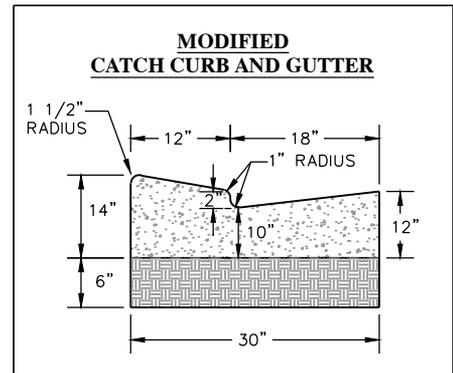
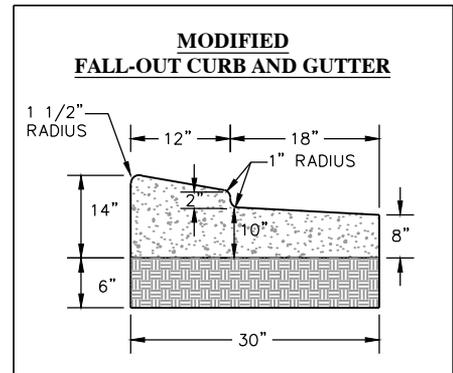
**DESIGN CRITERIA**

DESIGN SPEED: 25 M.P.H.

MIN CENTERLINE RADIUS: 200' MIN.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 37

CREST K VALUE = 20



**PRIVATE  
ROADWAY  
W/O PARK STRIP  
40' RIGHT-OF-WAY**

DATE <b>JANUARY 2015</b>	REVISIONS	
DRAWING NAME: <b>ST-30</b>	REV	DATE BY COMMENTS
DRAWN BY: <b>ETL</b>		
CHECKED:	APPROVED:	

**SARATOGA  
SPRINGS CITY**

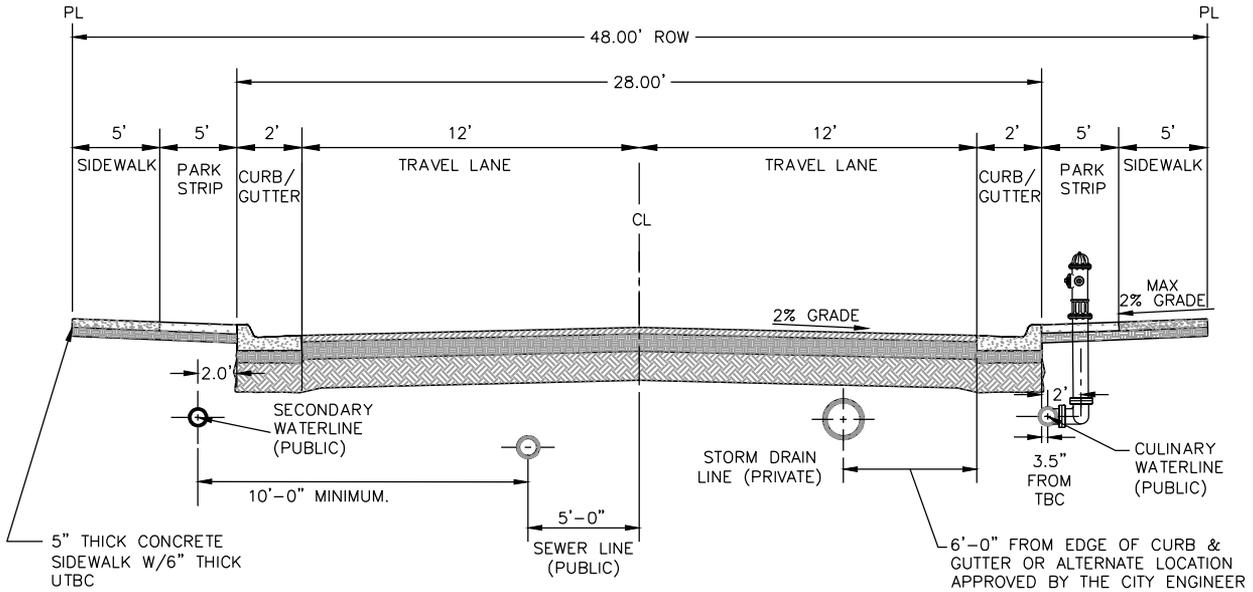
1307 N. COMMERCE DR.  
#200, SARATOGA SPRINGS,  
UT 84045  
PHONE: 801-766-9793  
FAX: 801-766-0794



STANDARD DETAILS

STREET STANDARDS

**ST-30**



**NOTES:**

1. THIS ROW CROSS SECTION SHALL BE PERMITTED FOR PRIVATE ROAD CROSS SECTIONS IN THE FOLLOWING ZONES: R-5, R-6, R-10, R-14, R-18, NC, MU, RC, OW, I, ML, BP, PC AND IC.
2. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURB ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
3. PAVEMENT DESIGN SHALL BE BASED ON A SOILS REPORT AS PER CITY STANDARDS.
4. PROVIDE A MINIMUM 6" THICKNESS UTBC UNDER SIDEWALKS, DRIVEWAY APPROACHES, AND CURB & GUTTER.
5. INSTALL TYPE 2 SLURRY SEAL ON ALL HMA UPON COMPLETION OF PAVING AND PRIOR TO ACCEPTANCE OF ROADS.
6. HOUSES MAY FRONT ON THESE STREETS.

**DESIGN CRITERIA**

DESIGN SPEED: 25 M.P.H.

MIN CENTERLINE RADIUS: 200' MIN.

VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 37

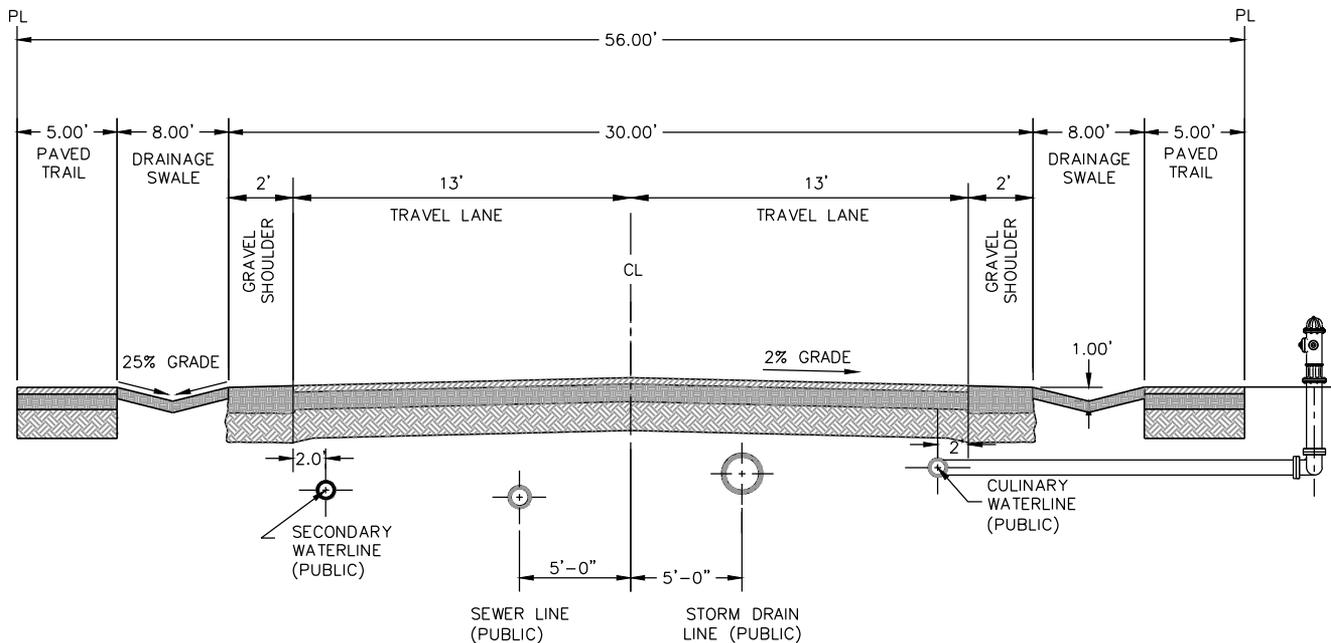
CREST K VALUE = 20

**PRIVATE  
ROADWAY  
W/ PARK STRIP  
48' RIGHT-OF-WAY**

DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-31</b>		REV	DATE
DRAWN BY: <b>ETL</b>		BY	COMMENTS
CHECKED:	APPROVED:		
		<b>SARATOGA SPRINGS CITY</b>	

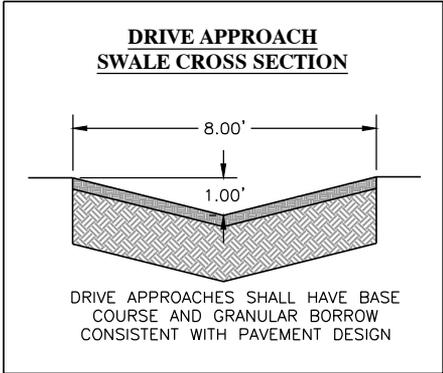


STANDARD DETAILS
STREET STANDARDS
ST-31



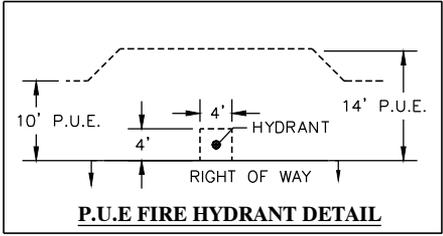
**NOTES:**

1. THIS ROW CROSS SECTION SHALL BE PERMITTED FOR PRIVATE ROAD CROSS SECTIONS IN THE FOLLOWING ZONES: A, RA-5, R-1, AND RR.
2. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN SWALE ON OPPOSITE SIDES OF STREET SHALL NOT EXCEED 1'-0"
3. PAVEMENT DESIGN SHALL BE BASED ON A SOILS REPORT AND AS PER CITY STANDARDS.
4. INSTALL TYPE 2 SLURRY SEAL ON ALL HMA UPON COMPLETION OF PAVING AND PRIOR TO ACCEPTANCE OF ROADS.
5. HOUSES MAY FRONT ON THESE STREETS.
6. A FIVE FOOT ASPHALT OR CONCRETE TRAIL MUST BE PROVIDED BOTH SIDE OF THE STREET. TRAILS ARE NOT REQUIRED IN DEVELOPMENTS WITH 5 ACRE LOTS OR LARGER



**DESIGN CRITERIA**

DESIGN SPEED: 25 M.P.H.  
 MIN CENTERLINE RADIUS: 200' MIN.  
 VERTICAL CURVE REQUIREMENTS: SAG K VALUE = 37  
 CREST K VALUE = 20

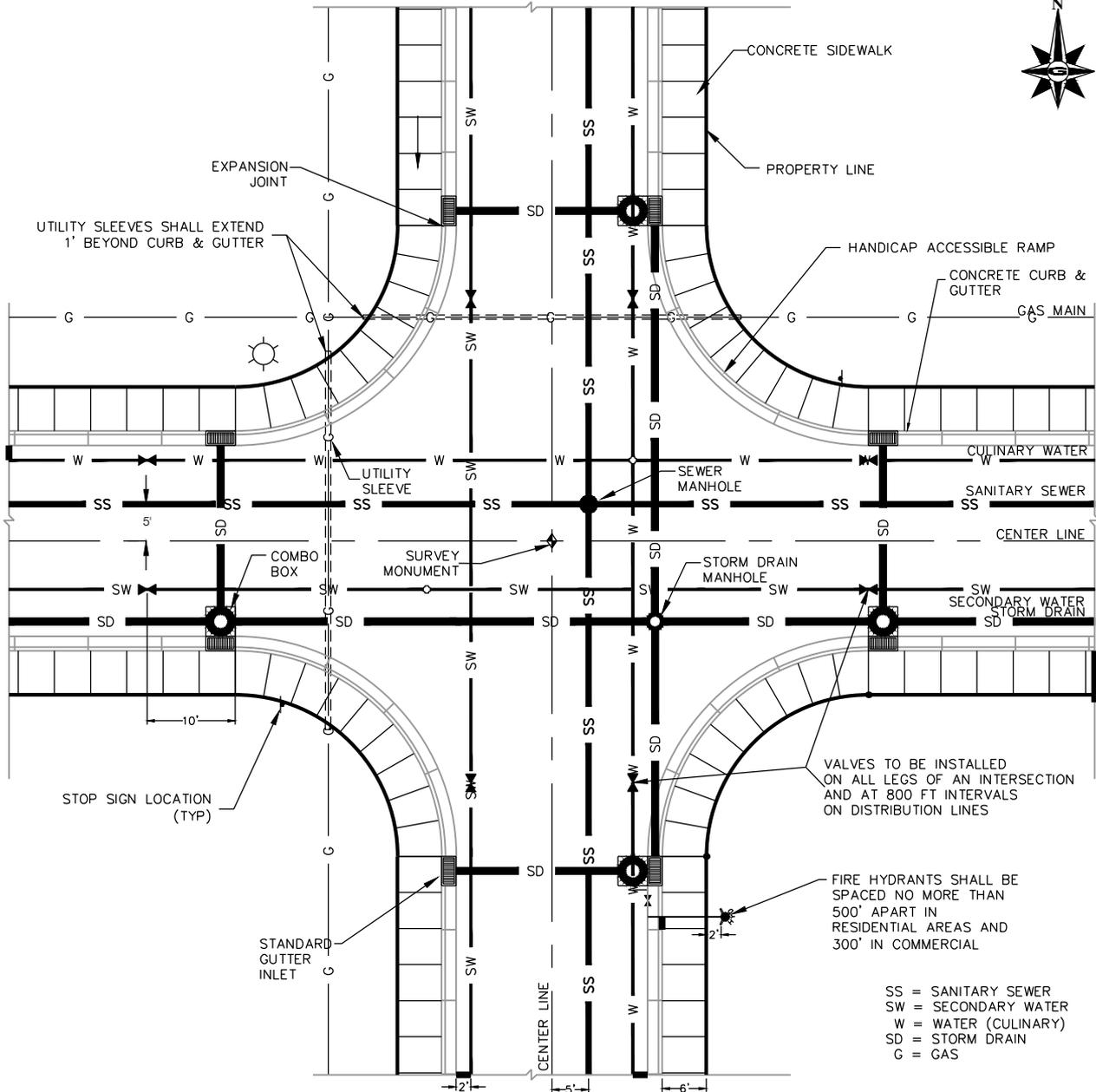


**PRIVATE  
ROADWAY  
RURAL  
56' RIGHT-OF-WAY**

DATE <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-32</b>		REV	DATE
DRAWN BY: <b>ETL</b>		BY	COMMENTS
CHECKED: APPROVED:		<div style="text-align: center;"> <b>SARATOGA SPRINGS CITY</b> </div> <small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, FL 34745 PHONE: 801-766-9793 FAX: 8017669794</small>	



STANDARD DETAILS  
STREET STANDARDS  
**ST-32**



**NOTES:**

1. LAND DRAINS ARE UNACCEPTABLE UNLESS EXPLICITLY ALLOWED BY CITY ENGINEER. WHEN ALLOWED, PIPES SHALL NOT BE PERFORATED OR DESIGNED TO ACCEPT WATER WITHIN THE STREET RIGHT-OF-WAY.
2. CURB RADIUS ON LOCAL AND COLLECTOR RIGHT-OF-WAYS SHALL BE 25', ON MINOR ARTERIALS IT SHALL BE 35', AND ON MAJOR AND PRINCIPAL ARTERIALS SHALL BE 40' AS MEASURED FROM FACE OF CURB.
3. CHECK ALL CITY STANDARDS FOR UTILITY LOCATIONS.
4. STREET LIGHTS ARE TO BE PLACED AT INTERSECTIONS AND EVERY 300 FEET, ALTERNATING SIDES OF STREET.
5. WHERE INLET CONFLICTS WITH VALVE LOCATION, PLACE VALVE 10' BACK FROM POINT OF CURVATURE.

**PRIVATE INTERSECTION & UTILITY DETAILS**

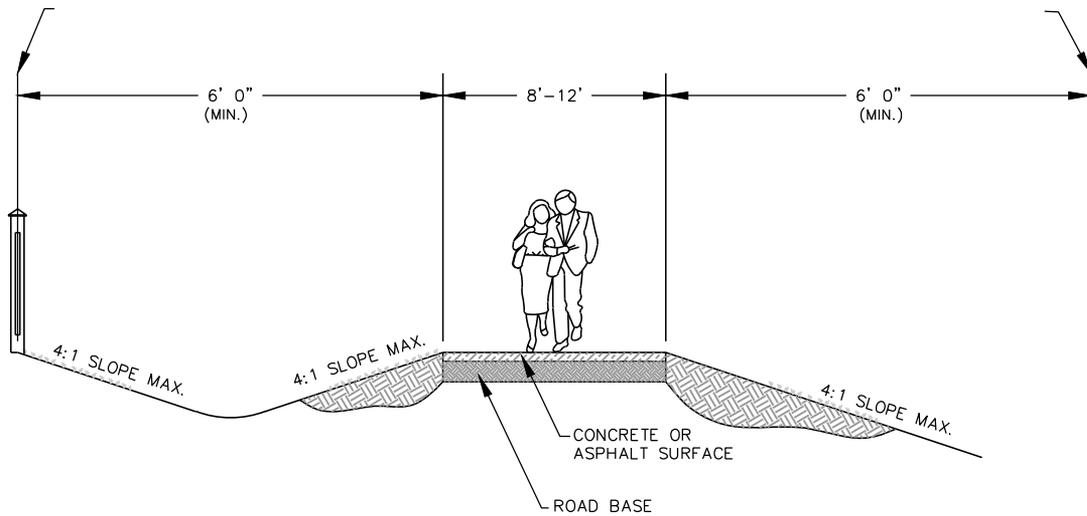
DATE: <b>JANUARY 2015</b>	REVISIONS
DRAWING NAME: <b>ST-33</b>	REV. DATE BY COMMENTS
DRAWN BY: <b>ETL</b>	
CHECKED: APPROVED:	
<b>SARATOGA SPRINGS CITY</b>	
1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-6793 FAX: 801-766-6794	



STANDARD DETAILS

STREET STANDARDS

**ST-33**



**NOTES:**

1. TRAILS ALONG ARTERIAL ROADWAYS, AND CANAL PARKWAYS SHALL BE 12' WIDE MEANDERING CONCRETE TRAILS.
2. TRAILS FOR LAKESIDE AND RIVERSIDE ACCESS MUST USE CONCRETE AND BE 12' WIDE.
3. IN RIPARIAN AREAS PROVIDE 8' CONCRETE TRAILS.
4. IN UPLAND AREAS PROVIDE 12' ASPHALT TRAILS.
5. FOR POWER LINE CORRIDORS, MOUNTAIN TRAILS, ATV TRAILS, AND EQUESTRIAN USE, PROVIDE 12' WIDE TRAILS WITH 8" OF ROAD BASE OR APPROVED SOFT-SURFACE MATERIAL.
6. FOR WILDERNESS TRAILS IN DEVELOPED AREAS PROVIDE 12' WIDE ASPHALT TRAILS.
6. FOR WILDERNESS TRAILS IN UNDEVELOPED AREAS PROVIDE 8'-10' WIDE TRAILS WITH 8" OF ROAD BASE OR APPROVED SOFT-SURFACE MATERIAL.
7. ALL TRAILS MUST BE ADA ACCESSIBLE AND PROVIDE MAINTENANCE ACCESS.
8. CENTER LINE RADIUS OF MEANDERING SIDEWALKS/TRAILS SHALL BE 100' MIN.
9. FOR CONCRETE TRAILS, PROVIDE CONSTRUCTION JOINTS @ 8' INTERVALS EXPANSION JOINTS @ 40' INTERVALS
10. CONCRETE TRAILS MUST HAVE 5" OF CONCRETE OVER 6" OF ROAD BASE.
11. ASPHALT TRAILS MUST HAVE 3" OF ASPHALT OVER 8" OF ROAD BASE.

**URBAN, RURAL, AND WILDERNESS TRAILS**

DATE: <b>JANUARY 2015</b>		REVISIONS	
DRAWING NAME: <b>ST-34</b>		REV	DATE
DRAWN BY: <b>JMT</b>		BY	COMMENTS
CHECKED:	APPROVED:		
		<b>SARATOGA SPRINGS CITY</b>	
		<small>1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-786-9793 FAX: 801-786-9794</small>	



STANDARD DETAILS

STREET STANDARDS

**ST-34**