

City of South Salt Lake

Supplementary Standard Plans

2018



Revised Sept. 1, 2020

PREFACE

The City of South Salt Lake has adopted the latest edition of the APWA Manual of Standard Plans as its engineering standard for development and construction. However, in certain conditions the APWA Standard Plans do not adequately represent the City's engineering requirements. To this end the City has developed this supplementary standard. All plans in this supplementary manual replace the corresponding plans in the APWA Manual of Standard Plans. Any questions concerning the use of the supplementary drawings should be directed to the South Salt Lake City Engineering Department.

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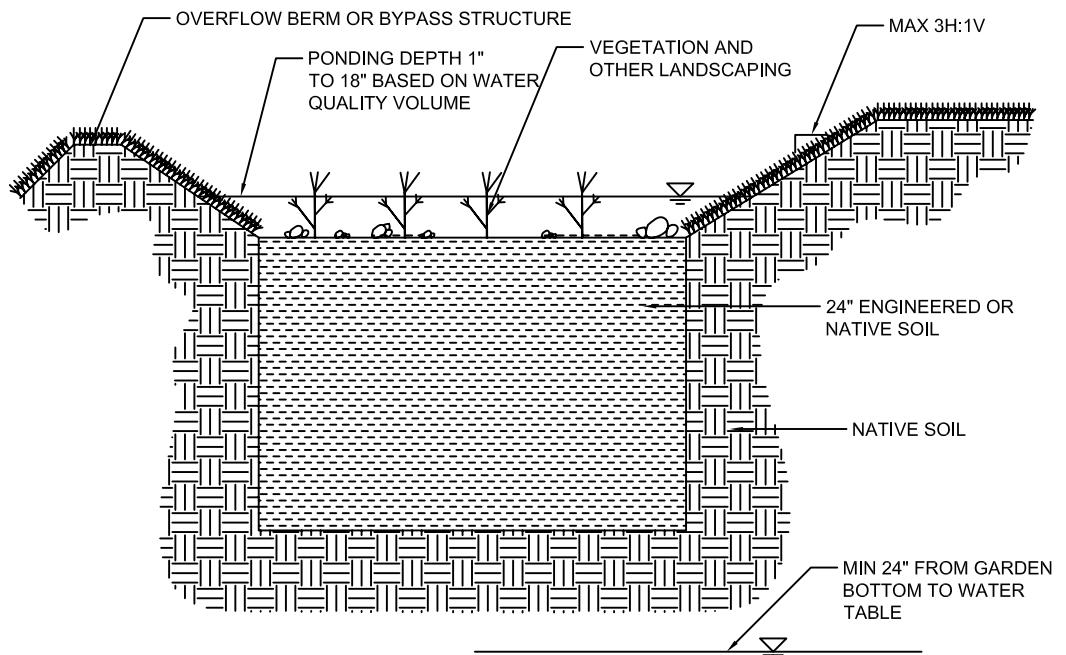
PART 9 – STREET

Street Sections

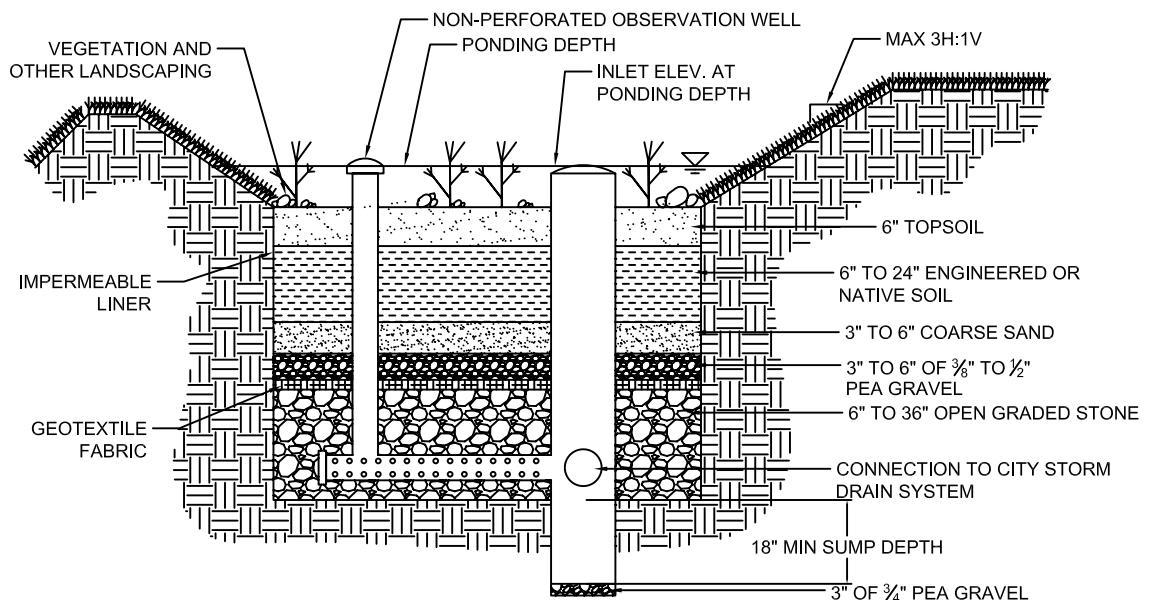
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95', 105', and 120' Street sections 901.3

PART 1
GENERAL REQUIREMENT



RAIN GARDEN IN NATIVE OR ENGINEERED SOILS



RAIN GARDEN WITH UNDERDRAIN SYSTEM

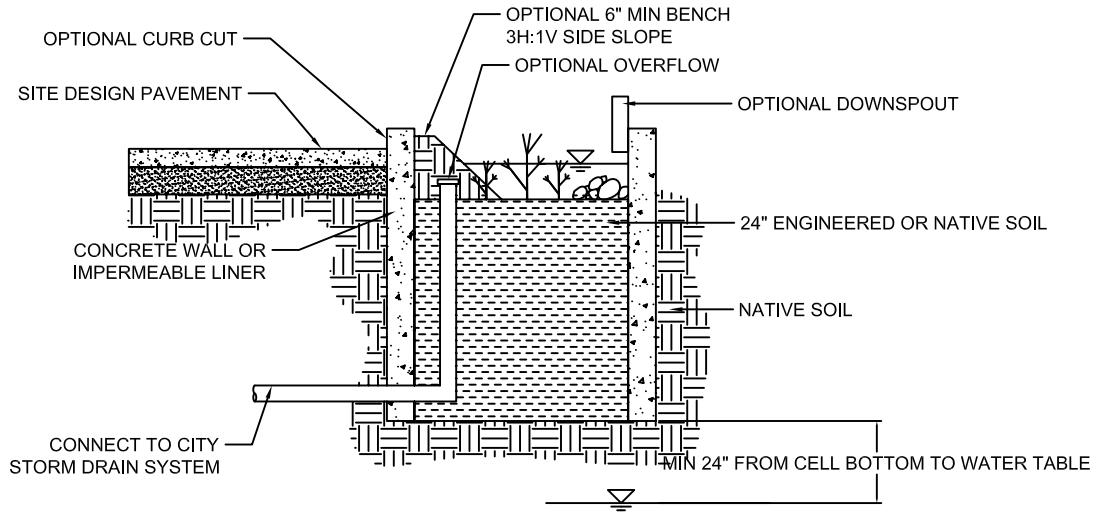
Rain garden

Bioretention cell

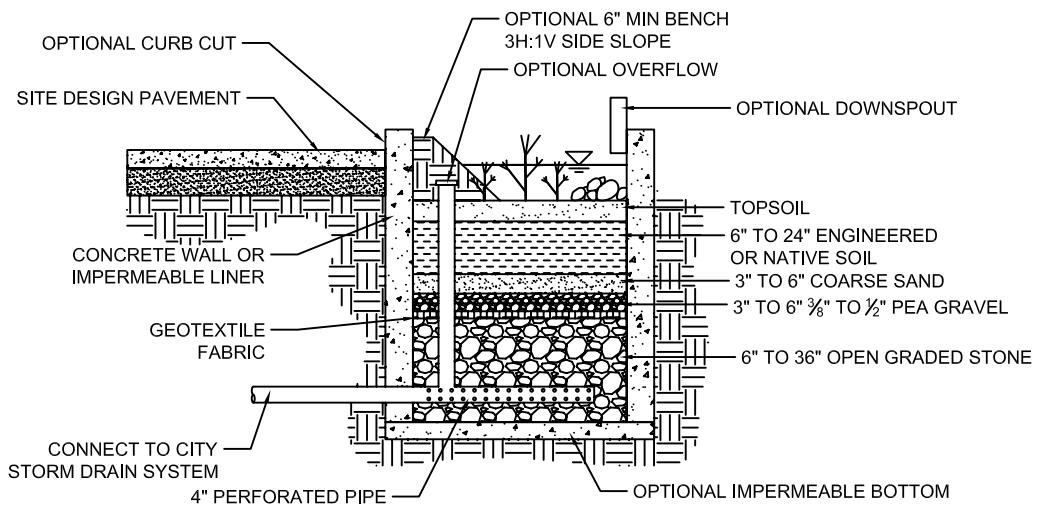
1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
 - B. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - C. Additional requirements are specified in South Salt Lake City Stormwater Design Manual.
2. PRODUCTS
 - A. Geotextile fabric: APWA Section 31 05 21.
 - B. Concrete: Class 4000, APWA Section 03 30 04.
3. EXECUTION (Not used)

132 SHEET SEPTEMBER, 2020 DATE	BIORETENTION CELL	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115											
			DRAWN BY LNGKUN LI	DATE 2020-09-01	MADE BY LNGKUN LI	REVISION 0	AUTHORIZED BY NO. <input type="checkbox"/>							
CHECKED BY SCALE DATE SEPT. 10TH 2020	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									

SSL Plan 132



BIORETENTION CELL IN NATIVE OR ENGINEERED SOILS



BIORETENTION CELL WITH UNDERDRAIN SYSTEM

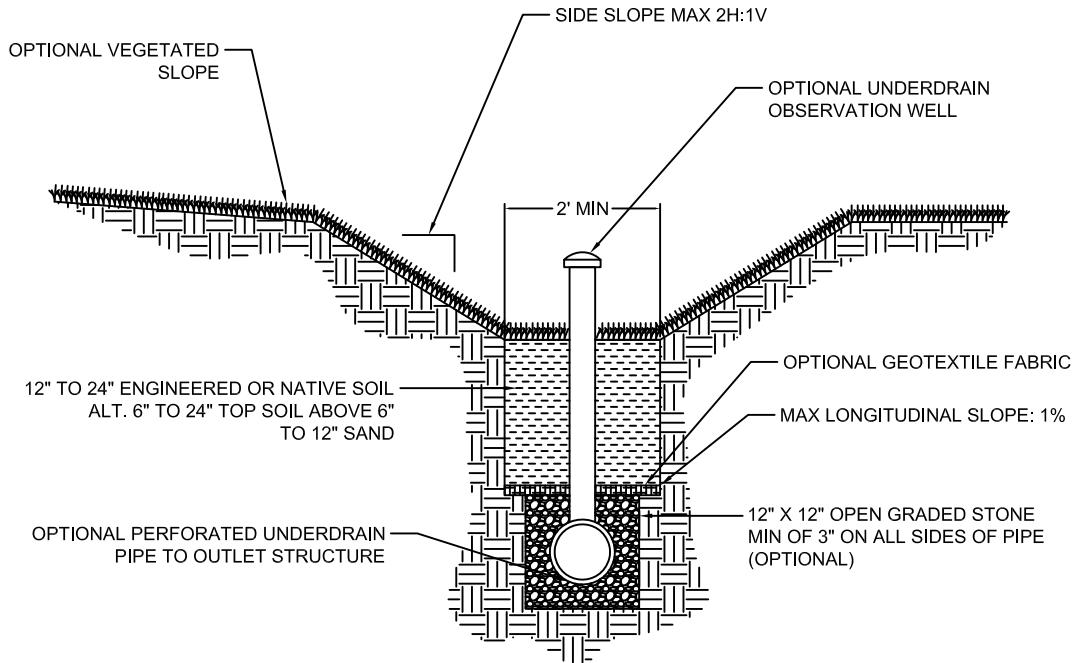
Bioretention Cell

Bioswale

1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
 - B. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - C. Additional requirements are specified in South Salt Lake City Stormwater Design Manual.
2. PRODUCTS (Not used)
3. EXECUTION (Not used)

133 SHEET DATE SEPTEMBER, 2020	BIOSWALE	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115											
			DRAWN BY LNGKUN LI	DATE SEPT. 10TH 2020	MADE BY	REVISION	AUTHORIZED BY NO.	DATE REVISION	MADE BY	REVISION	AUTHORIZED BY NO.	DATE REVISION	MADE BY	REVISION
CHECKED BY SCALE DATE														

SSL Plan 133



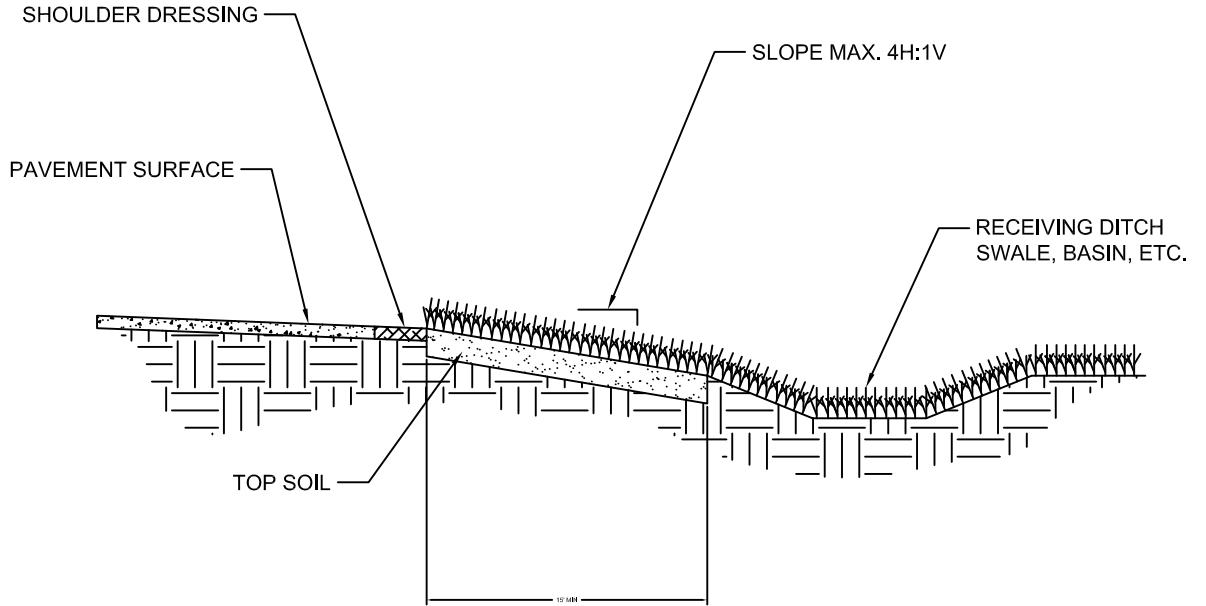
BIOSWALE

Bioswale

Vegetated strip

1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
 - B. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - C. Additional requirements are specified in South Salt Lake City Stormwater Design Manual.
2. PRODUCTS (Not used)
3. EXECUTION (Not used)

SSL Plan 134



VEGETATED STRIP

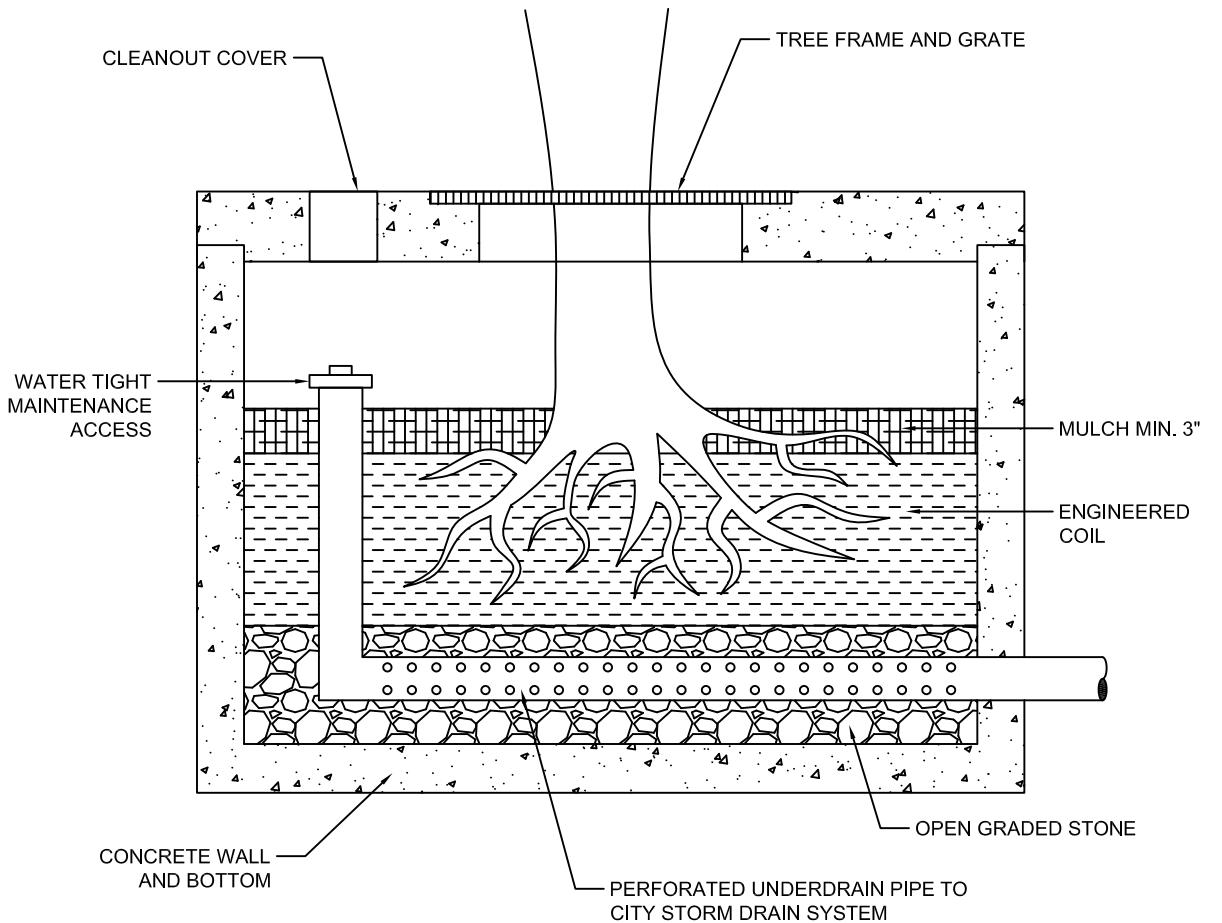
Vegetated strip

Tree box filters

1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
 - B. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - C. Additional requirements are specified in South Salt Lake City Stormwater Design Manual.
2. PRODUCTS
 - A. Tree Frame and Grate: Traffic rated.
3. EXECUTION (Not used)

135 SHEET DATE SEPTEMBER, 2020	TREE BOX FILTERS	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
			DRAWN BY LNGKUN LI	DATE SEPT. 10TH 2020	MADE BY	REVISION	AUTHORIZED BY NO.	DATE REVISION	MADE BY	DRAWN BY LNGKUN LI
CHECKED BY SCALE										
DATE										

SSL Plan 135



TREE BOX FILTERS

Tree box filters

CITY OF SOUTH SALT LAKE STANDARD DRAWINGS				TREE BOX FILTERS			
DRAWN BY	LINGXUN LI	CHECKED BY		DATE	SEPT. 10/11/2010	SCALE	1:100
NO.	REVISION	NAME	DATE	NO.	REVISION	NAME	DATE
SOUTH SALT LAKE ENGINEERING DEPARTMENT				220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115			

PART 2
ROADWAY

Curb and gutter

205.1
SHEET
SEPTEMBER, 2018
DATE
CURB AND GUTTER

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE

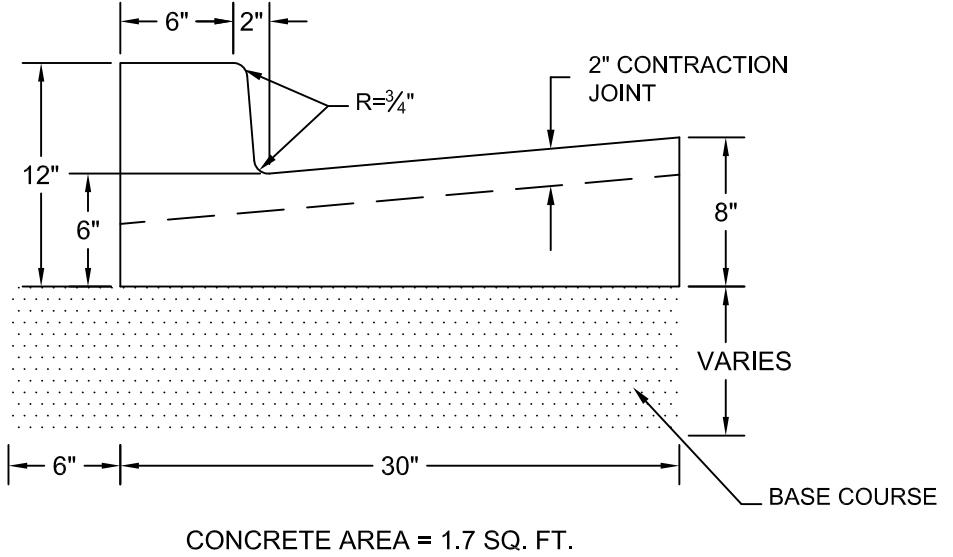
SOUTH SALT LAKE, UTAH 84115

DATE

SEPT. 01/18

1. GENERAL
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent ($s=0.005$) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

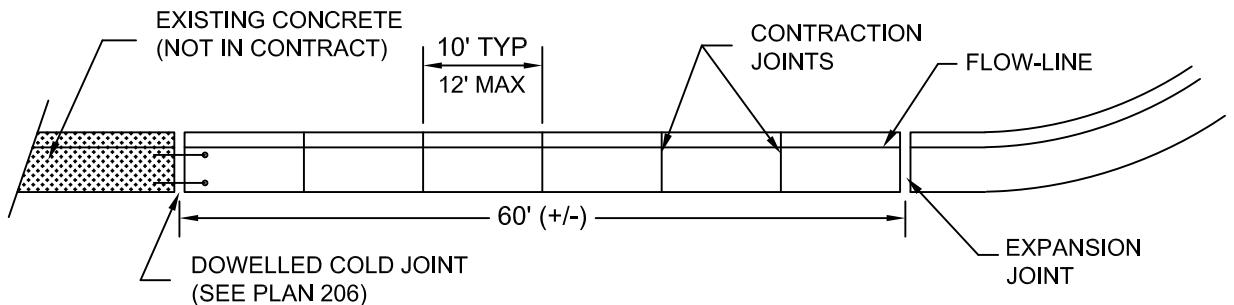
BACKFILL BEHIND CURB BEFORE
PAVING AGAINST LIP OF GUTTER



Type A

Notes:

1. APWA Type B, C, D, E, F, G, H, or HB30-7 Curb and Gutter may be used where applicable and only if approved by City Engineer.



JOINT DETAIL

Curb and gutter

This drawing replaces
APWA Plan 205.1
August 2018

SHEET	205.1
DATE	SEPTEMBER, 2018
CURB AND GUTTER	
CITY OF SOUTH SALT LAKE	
STANDARD DRAWINGS	
SOUTH SALT LAKE	ENGINEERING
DEPARTMENT	220 E MORRIS AVENUE
	SOUTH SALT LAKE, UTAH 84115
DRAWN BY	LINSON LI
CHECKED BY	
SCALE	
DATE	SEPT. 10TH 2018
MADE BY	
REVISION	
NO. AUTHORIZED BY	

Curb and gutter (Reversed Pan)

205.2	SHEET
SEPTEMBER, 2018	DATE

CURB AND GUTTER
(REVERSED PAN)

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE

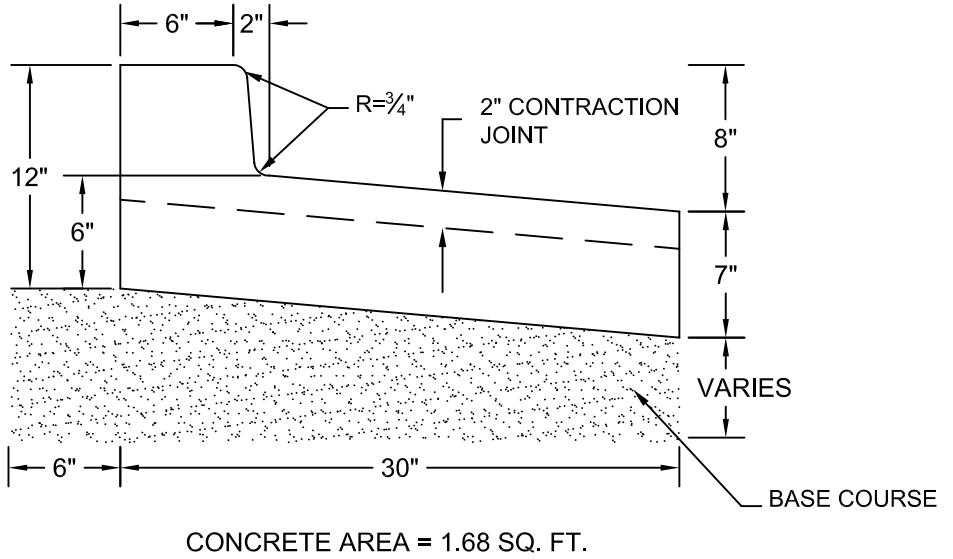
SOUTH SALT LAKE, UTAH 84116

DATE

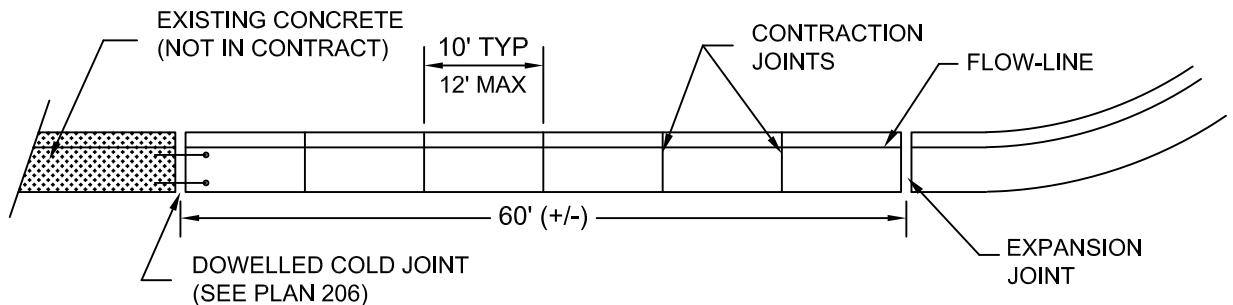
SEPT. 10TH 2018

1. GENERAL
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent ($s=0.005$) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

BACKFILL BEHIND CURB BEFORE
PAVING AGAINST LIP OF GUTTER



Reversed Curb Pan



JOINT DETAIL

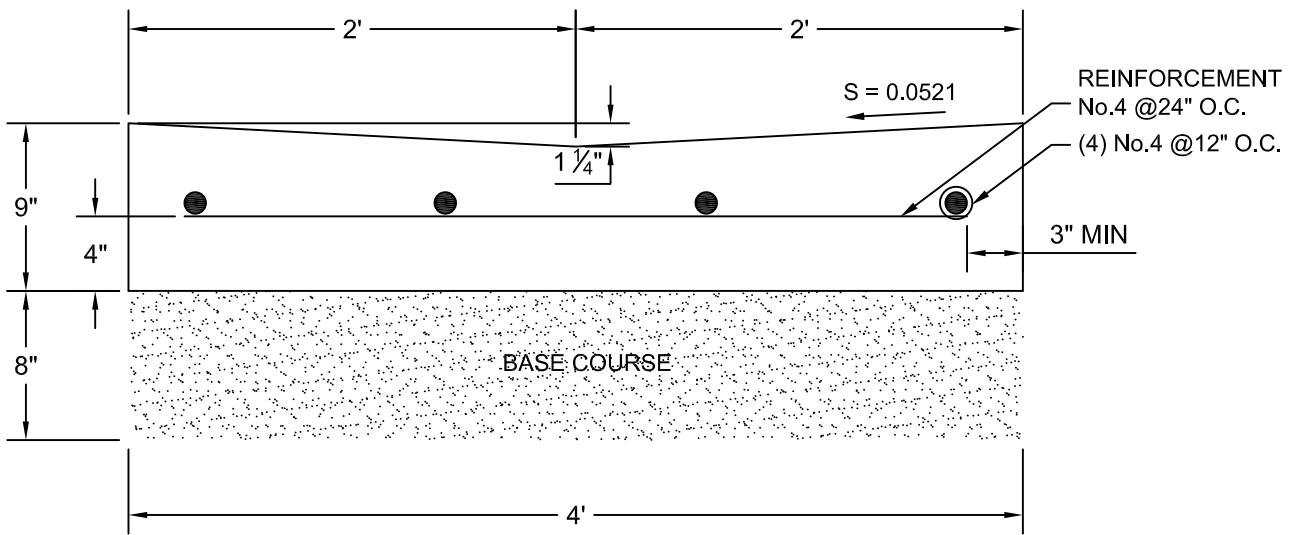
Curb and gutter (Reversed Pan)

SSL Plan 205.2

		SHEET		205.2
		DATE		SEPTEMBER, 2020
CURB AND GUTTER (REVERSED PAN)			CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	
SOUTH SALT LAKE ENGINEERING DEPARTMENT			SOUTH SALT LAKE 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115	
DRAWN BY	LINSON LI	CHECKED BY		
SCALE		DATE		SEPT. 10TH, 2018
MADE BY		REVISION		
NO. AUTHORIZED BY				

Waterway

1. GENERAL
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Width of waterway shall be 4 feet unless approved by ENGINEER.
 - C. Additional requirements are specified in APWA Section 32 16 13.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
 - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent ($s=0.005$) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



4'-0" WATERWAY

CONCRETE AREA = 2.583 SQ. FT.

Waterway

This drawing replaces
APWA Plan 211
August 2018

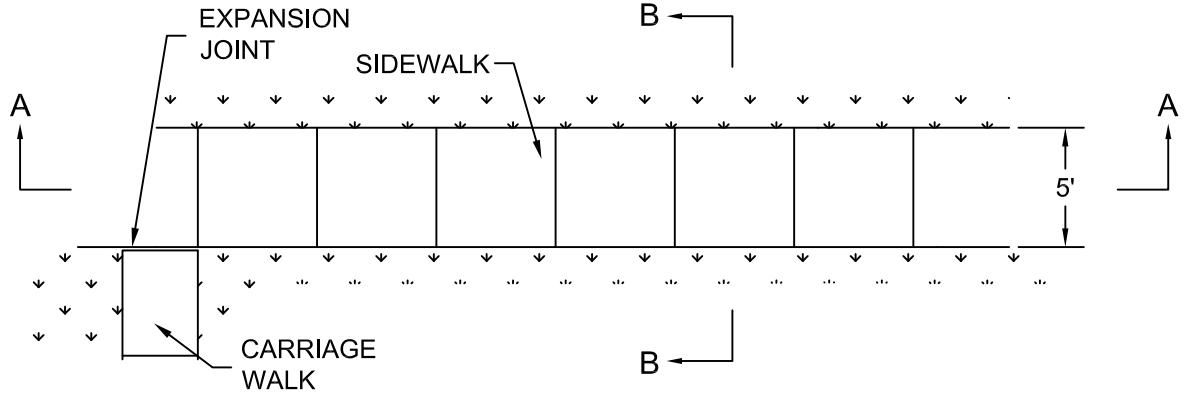
**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**



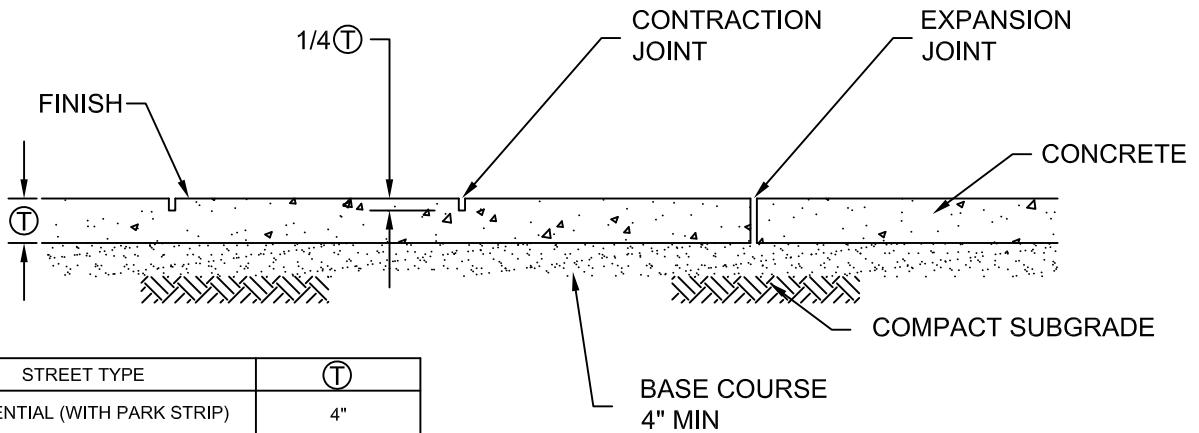
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

DRAWN BY	LINSON LI
CHECKED BY	
SCALE	
DATE	MAY 26TH 2020
MADE BY	
REVISION	
NO. AUTHORIZED BY	

SHEET 211
DATE SEPTEMBER, 2018

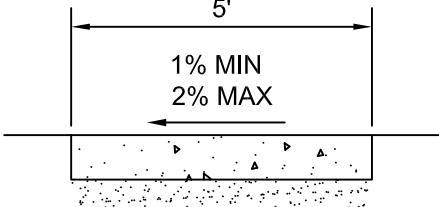


PLAN

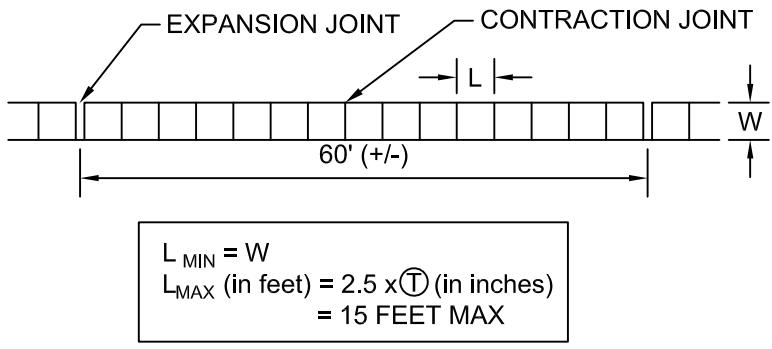


STREET TYPE	(T)
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	6"
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

SEE DRIVEWAY APPROACH PLANS FOR
SIDEWALK THICKNESS AT DRIVEWAYS



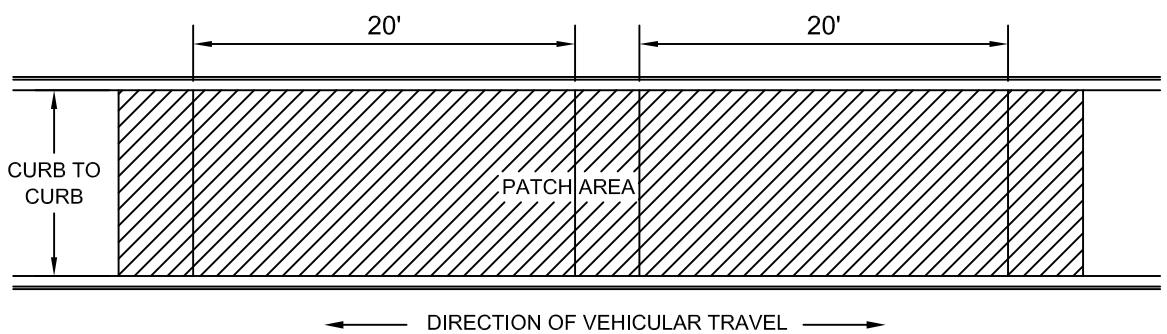
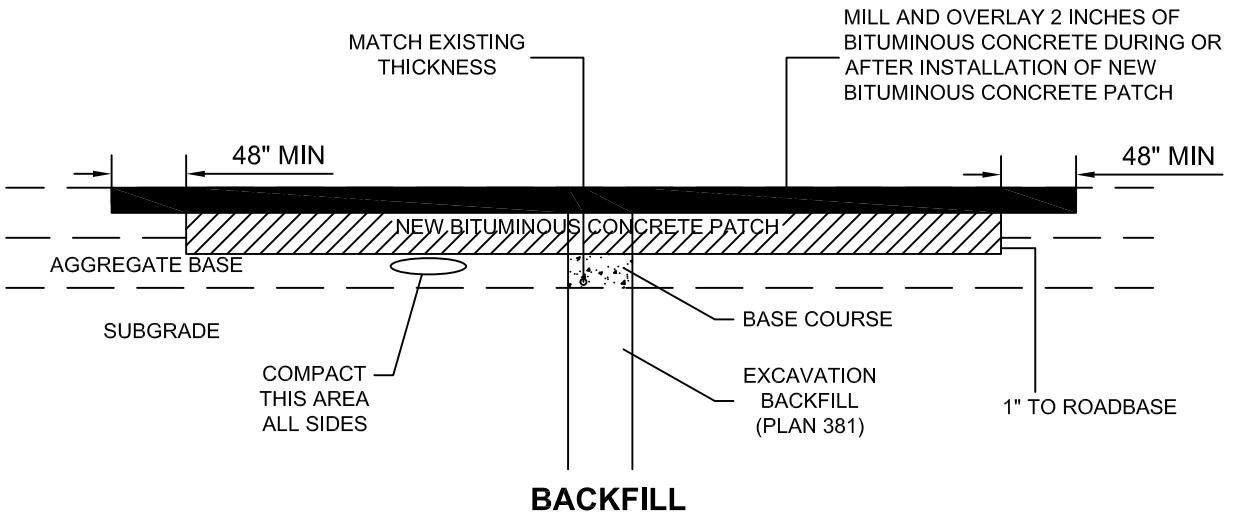
SECTION B-B



SIDEWALK JOINT DETAIL

Sidewalk

This drawing replaces
APWA Plan231
August 2018



PATCH AREA

Asphalt pavement patch (5 years or newer)

SOUTH SALT LAKE		CITY OF SOUTH SALT LAKE		ASPHALT PAVEMENT T-PATCH (5 YEARS OR NEVER)	
ENGINEERING DEPARTMENT		STANDARD DRAWINGS			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
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743	744	745	746	747	748
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761	762	763	764	765	766
767	768	769	770	771	772
773	774	775	776	777	778
779	780	781	782	783	784
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791	792	793	794	795	796
797	798	799	800	801	802
803	804	805	806	807	808
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815	816	817	818	819	820
821	822	823	824	825	826
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839	840	841	842	843	844
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863	864	865	866	867	868
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917	918	919	920	921	922
923	924	925	926	927	928
929	930	931	932	933	934
935	936	937	938	939	940
941	942	943	944	945	946
947	948	949	950	951	952
953	954	955	956	957	958
959	960	961	962	963	964
965	966	967	968	969	970
971	972	973	974	975	976
977	978	979	980	981	982
983	984	985	986	987	988
989	990	991	992	993	994
995	996	997	998	999	999

Concrete pavement patch

256.2	SHEET
SEPTEMBER, 2018	DATE

CONCRETE PAVEMENT PATCH

CITY OF SOUTH SALT LAKE



SOUTH SALT LAKE
ENGINEERING
DEPARTMENT

220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84116

DATE

SCALE

CHECKED BY

DRAWN BY

LNGKUN LI

DATE

MADE BY

REVISION

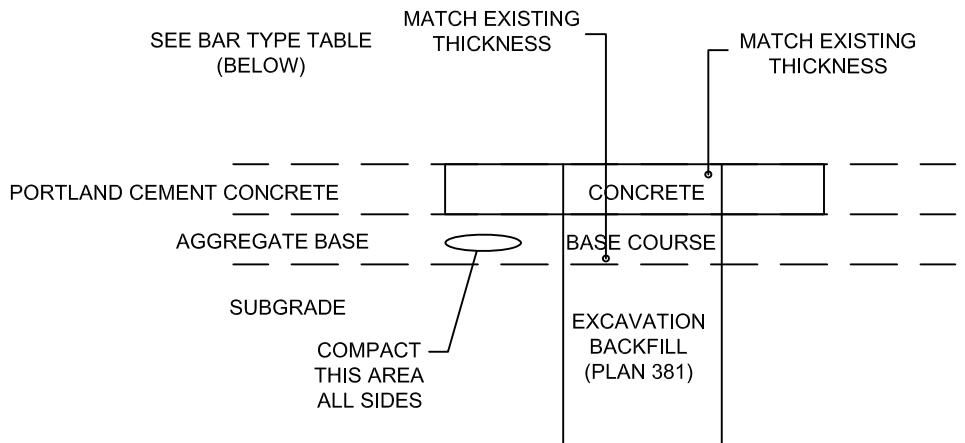
AUTHORIZED BY

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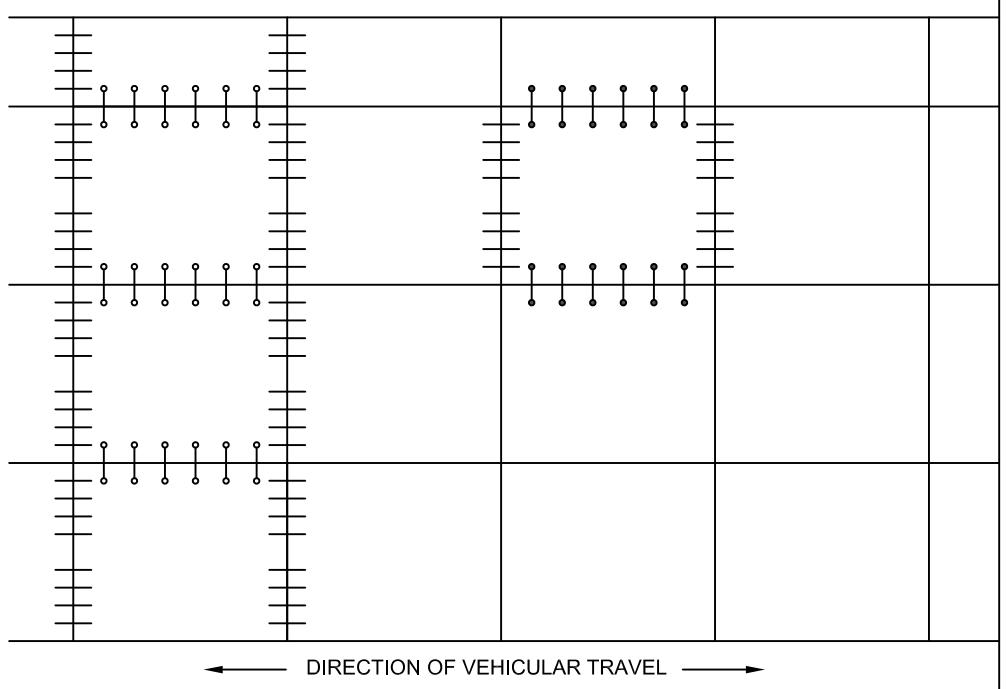
SEPT. 01/18

1. GENERAL
 - A. Reproduce existing pavement joint layout even if repairs straddle and existing joint.
 - B. Additional requirements are specified in APWA Section 32 01 19
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Reinforcement: 60 ksi yield grade steel, ASTM A615 epoxy coated or galvanized deformed or smooth with diameter and length indicated.
 - C. Adhesive: Epoxy adhesive grout, APWA Section 03 30 10 for gluing bars in drilled holes in concrete.
 - D. Bond Breaker (Grease): Paraffin wax, lithium grease, or other semi-solid, inert lubricant.
 - E. Concrete: Class 4000, APWA Section 03 30 04.
 - F. Concrete Curing Agent: White pigmented membrane forming compound (Type II Class A or B), APWA Section 03 39 00.
 - G. Water Repellant: Penetrating compound, APWA Section 07 19 00.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Joint Preparation: Use a rigid drill frame to drill holes in the vertical center of the adjacent concrete panel. Drill holes parallel to the panel surface. Provide the specified space between drill holes. For dowel bars, drill the holes parallel to the thoroughfare centerline. Limit deviation from parallel to 1/4-inch in the length of the dowel bar. Clean vertical surface of the adjacent concrete.
 - C. Reinforcement: Remove dirt, dust, and rust from bars. Do not install tie bars that interfere with dowel bars.
 - 1) For tie bars, place adhesive at the back of each hole so adhesive flows out, around, and fully encases each inserted bar. DO NOT coat one end of the bar and then insert the bar into the hole. Prevent loss of adhesive upon insertion.
 - 2) For dowel bars, place grease at the back of each hole so grease flows out, around, and fully encases each inserted bar. Grease the bar before insertion.
 - 3) Grease protruding dowel bar prior to concrete placement.
 - D. Bond Breaker: Place bond breaker on all pavement joints that compose existing joints, both transverse and horizontal.
 - E. Concrete Placement: Repack loose bars and dampen base course uniformly. Place concrete, consolidate along face of existing concrete panels and under reinforcement, keep vibrators away from reinforcing steel, and prevent segregation. Match adjacent surface texture.
 - F. Cure: Apply curing agent in total coverage in 2 directions after texturing. Keep cure temperature even throughout extent and depth of concrete patch.
 - G. Traffic: Not allowed on patch until concrete strength is achieved.
 - H. Surface Distortions: After cure, remove surface distortions that exceed 1/4-inch deviation in 10 feet. Apply water repellent to surfaces receiving grinding.

BACKFILL AND PANEL TIE-IN



BACKFILL



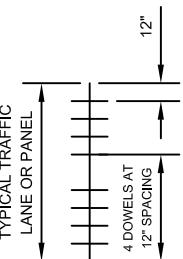
BAR TYPE	BAR TYPE TABLE
○—	30" LONG No. 5 TIE BARS AT 30" O.C.
●—	30" LONG No. 5 TIE BARS AT 15" O.C.
—	18" LONG DOWEL BARS - SEE TABLE 1

TABLE 1	
PAVEMENT THICKNESS	DOWEL DIAMETER
LESS THAN 9"	1"
≥ 9" AND < 11"	1.25"
11" OR GREATER	1.5"

PANEL TIE-IN

Concrete pavement patch

This drawing replaces
APWA Plan 256.2
August 2018



		SHEET 256.2	
		DATE SEPTEMBER, 2018	
CONCRETE PAVEMENT PATCH			
 CITY OF SOUTH SALT LAKE STANDARD DRAWINGS		SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115	
DRAWN BY	LINCOLN LI	CHECKED BY	
SCALE		DATE	MAY 26TH 2020
MADE BY		REVISION	
NO. AUTHORIZED BY			

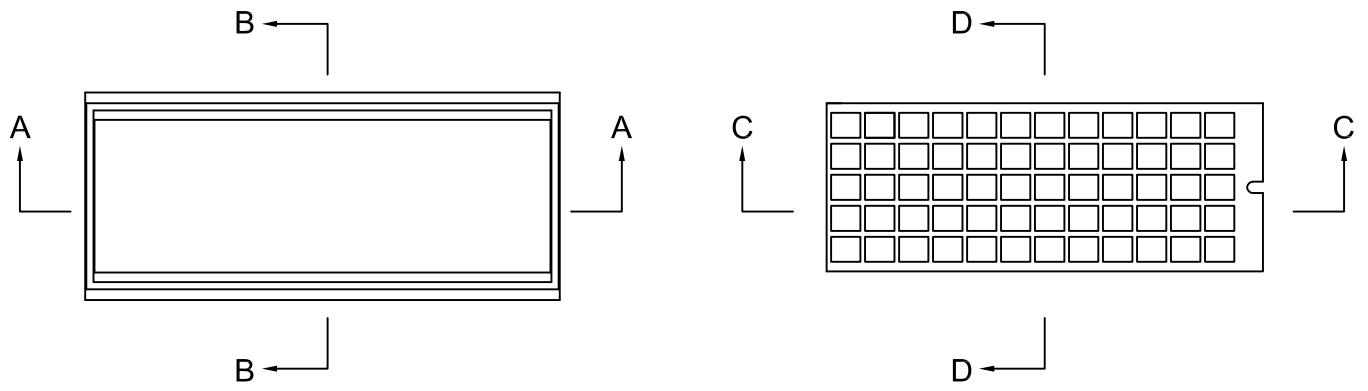
PART 3
STORM DRAIN

47 3/4" Grate and frame

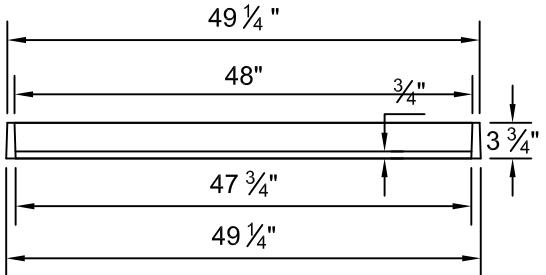
1. GENERAL
 - A. The grate and frame fits cleanout box Type A in APWA Plan 331.
2. PRODUCTS
 - A. Castings: Grey iron class 35 minimum per ASTM A48, coated with asphalt based paint or better (except on machined surfaces).
3. EXECUTION (Not used)

309.2 SHEET DATE SEPTEMBER, 2018	47 3/4" GRATE AND FRAME	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115											
			DRAWN BY LNGKUN LI	DATE 2018-09-01	MADE BY	REVISION	AUTHORIZED BY NO.	△	△	△	△	△	△	
CHECKED BY														
SCALE														
DATE														
SEPT. 10th 2018														

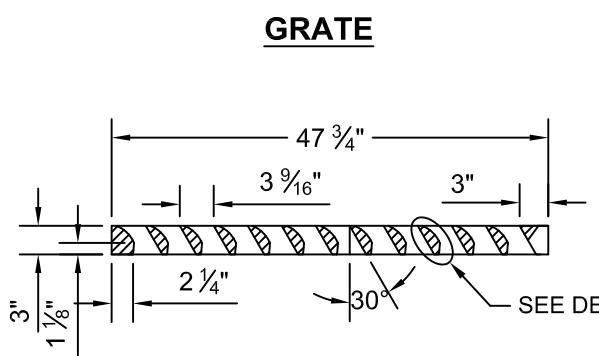
SSL Plan 309.2



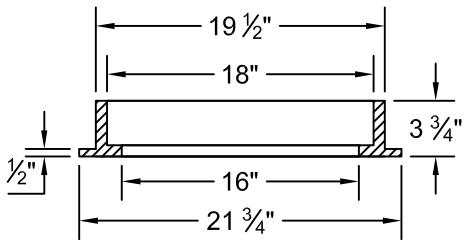
FRAME



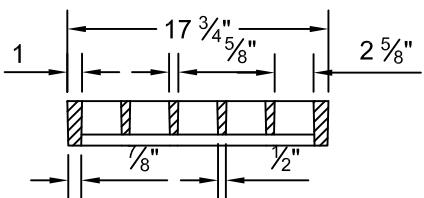
SECTION A-A



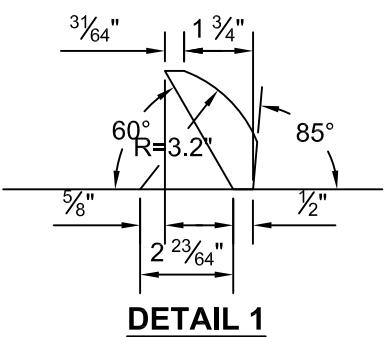
GRATE



SECTION B-B



SECTION D-D



DETAIL 1

Notes:

1. D & L Supply Grate type I-1803 or similar.

47 3/4" Grate and frame

This drawing replaces
APWA Plan 309.2
August 2018

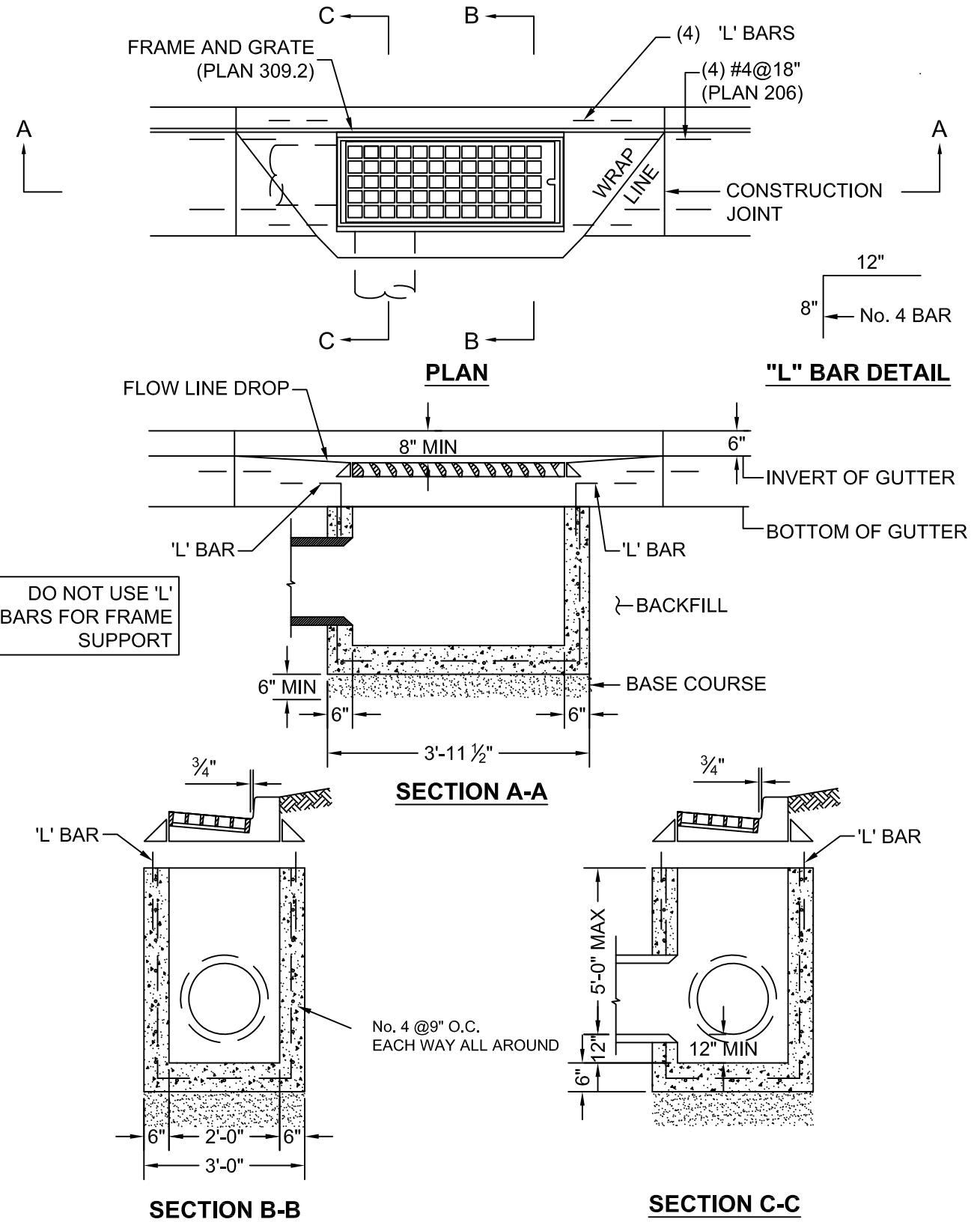
SOUTH SALT LAKE		ENGINEERING		DEPARTMENT	
220 E MORRIS AVENUE		220 E MORRIS AVENUE		SOUTH SALT LAKE, UTAH 84115	
DRAWN BY	LINSON LI	CHECKED BY		SCALE	
MADE BY		REVISION		DATE	
NO. AUTHORIZED BY					

Catch basin

1. GENERAL
 - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

SSL Plan 315.1

SINGLE GRATE



Catch basin

This drawing replaces
APWA Plan 315.1
August 2018

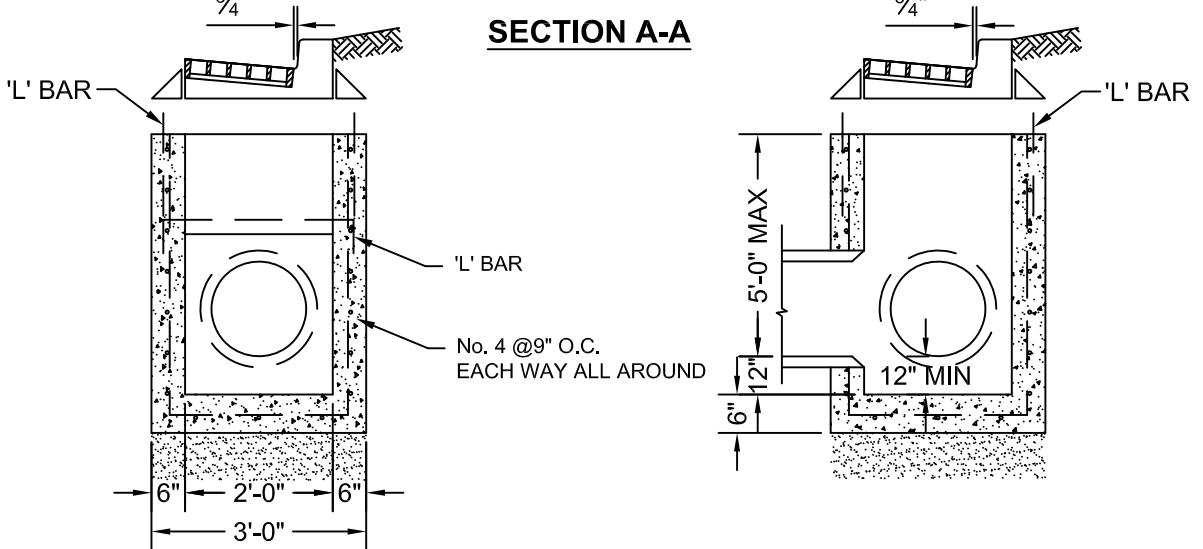
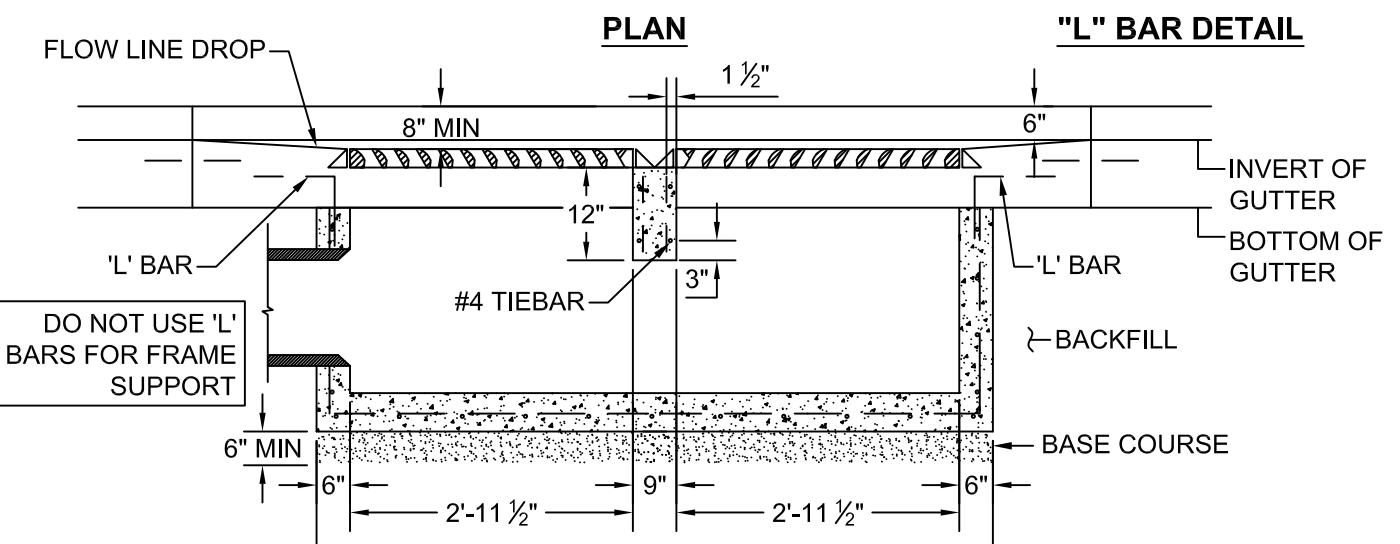
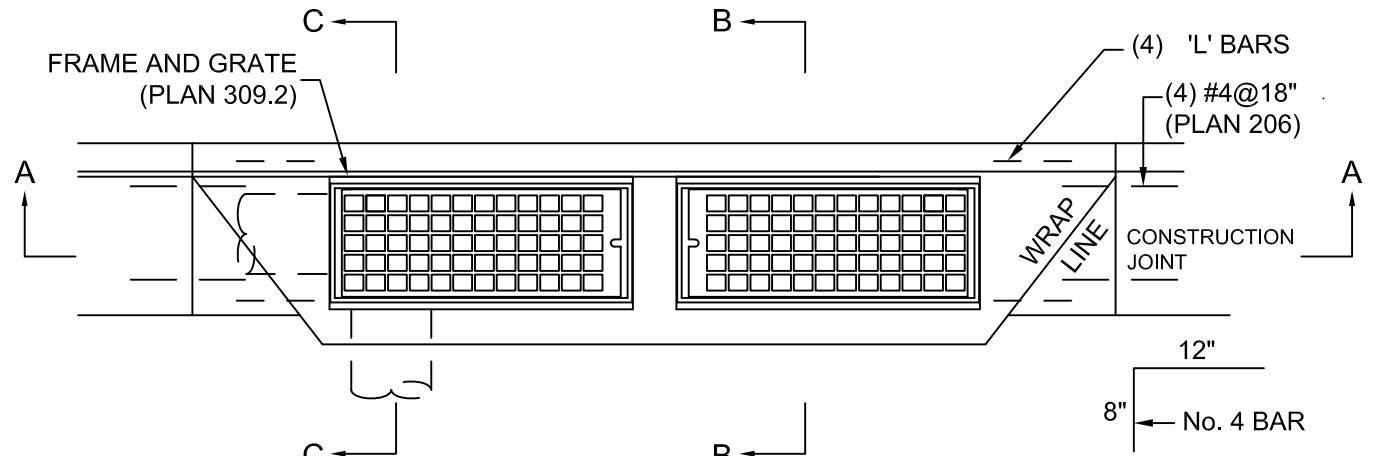
SHEET 315.1		DATE SEPTEMBER, 2018	
CATCH BASIN			
CITY OF SOUTH SALT LAKE STANDARD DRAWINGS			
 SOUTH SALT LAKE ENGINEERING DEPARTMENT		DRAWN BY LINSENKO, I CHECKED BY SCALE DATE MAY 26TH 2020 MADE BY DATE NO. AUTHORIZED BY REVISION 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115	

Catch basin

1. GENERAL
 - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

315.2 SHEET DATE SEPTEMBER, 2018	CATCH BASIN	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115 DATE SEPT. 10TH 2018	DRAWN BY LNGKUN LI CHECKED BY SCALE REV. AUTORIZED BY NO.
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DOUBLE GRATE



Catch basin

This drawing replaces
APWA Plan 315.2
August 2018

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**



DRAWN BY LINCOLN LI
CHECKED BY
SCALE
DATE MAY 26TH 2020
REVISED BY
NO. AUTHORIZED BY

315.2
SEPTEMBER, 2018

Combination catch basin and cleanout box

316	SHEET
SEPTEMBER, 2018	DATE

COMBINATION CATCH BASIN
AND CLEANOUT BOX

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



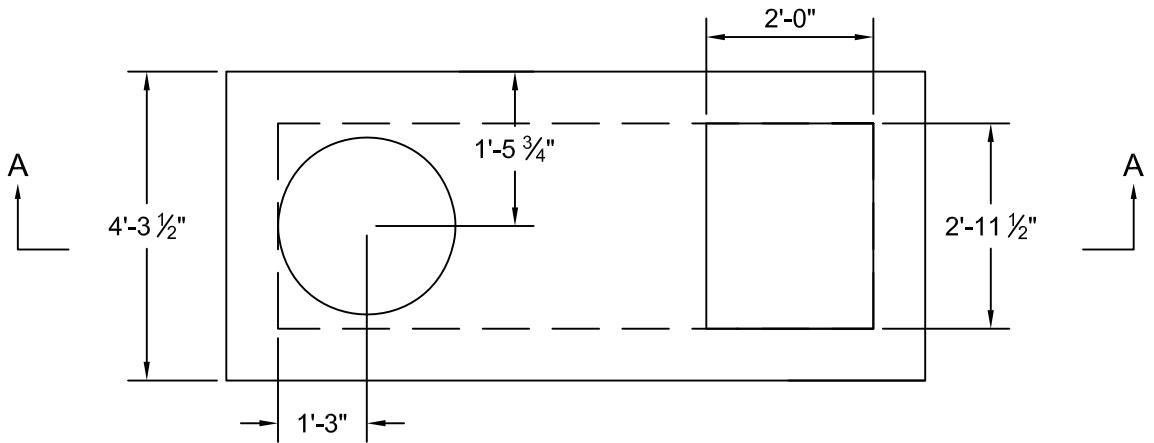
220 E MORRIS AVENUE

SOUTH SALT LAKE, UTAH 84115

DATE

SEPT. 10TH 2018

1. GENERAL
 - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
 - E. Ladder Rungs: Plastic, or plastic coated steel typically 8-inches wide.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Ladder Rungs: Provide rungs in boxes over 6 feet deep. When measured from the floor of the box, place bottom rung the greater distance of 4 feet from the floor of the box or 1 foot above the top of the pipe. Place top rung within 3 feet of bottom of box ceiling.
 - C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - D. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



PLAN

RAISE FRAME TO GRADE
(PLAN 360)

FRAME AND COVER
(PLAN 302)

CONCRETE COLLAR
(PLAN 362)

FRAME AND GRATE
(PLAN 309.2)

No. 4 @6" O.C.
EACH WAY
MATCH FACE WITH TOP BACK
OF CURB ALIGNMENT

PIPE LATERALS

12" MIN

3"

BACKFILL

No. 4 @9" O.C.
EACH WAY

BASE COURSE

6"

6"

6"

VARIABLES

SECTION A-A

Combination catch basin and cleanout box

This drawing replaces
APWA Plan 316
August 2018

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**

COMBINATION CATCH BASIN
AND CLEANOUT BOX

SHEET
316

DATE
SEPTEMBER, 2018

**SOUTH SALT LAKE
ENGINEERING
DEPARTMENT**

220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

DRAWN BY	LINSON LI
CHECKED BY	
SCALE	
DATE	
MADE BY	
REVISION	
NO. AUTHORIZED BY	

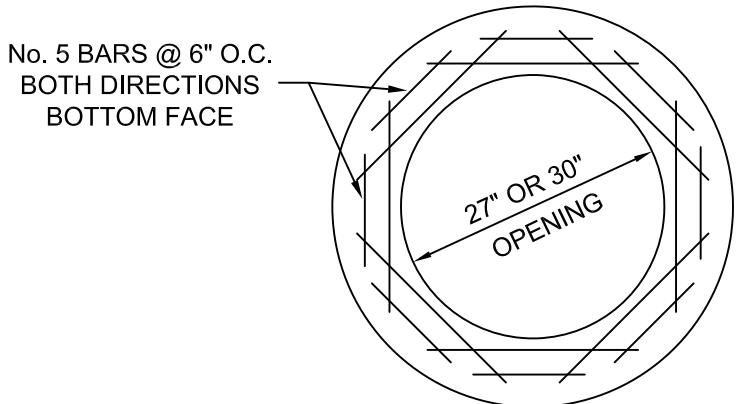
MAY 26TH 2020

Concrete deck

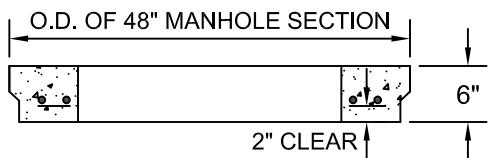
1. GENERAL
 - A. Deck is made for round manhole riser grade rings.
2. PRODUCTS
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
3. EXECUTION
 - A. Concrete Placement: APWA Section 03 30 10. Apply a curing agent.
 - B. Reinforcement: Placement APWA Section 03 20 00.

345 SHEET SEPTEMBER, 2018 DATE	CONCRETE DECK	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
			DRAWN BY LNGKUN LI	DATE 2018-09-01	MADE BY LNGKUN LI	REVISION 0	AUTHORIZED BY NO. <input checked="" type="checkbox"/>			
CHECKED BY <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
SCALE <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
DATE SEPT. 01/2018	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

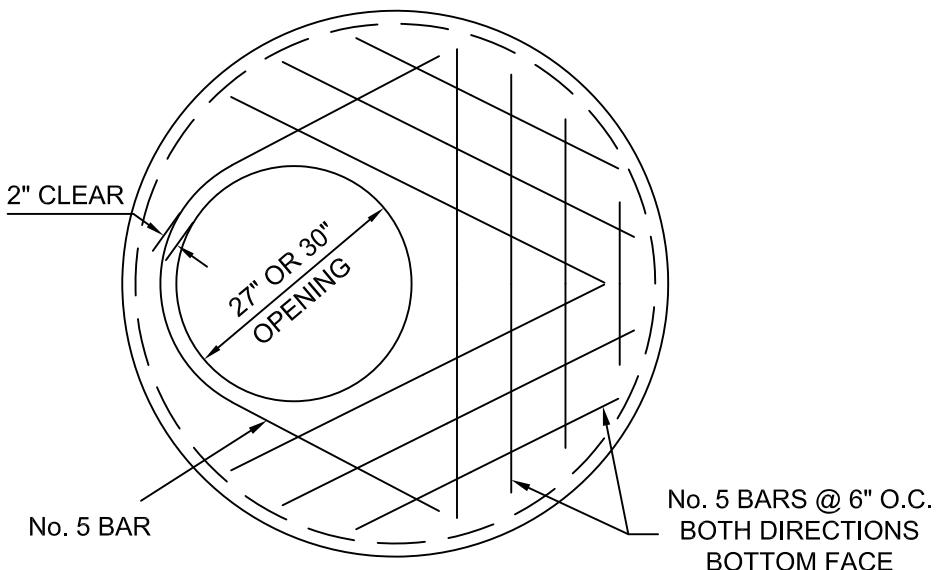
SSL Plan 345



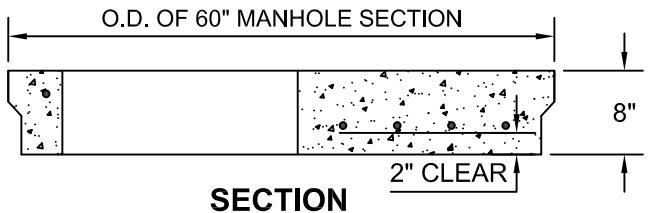
48" DECK PLAN



SECTION



60" DECK PLAN



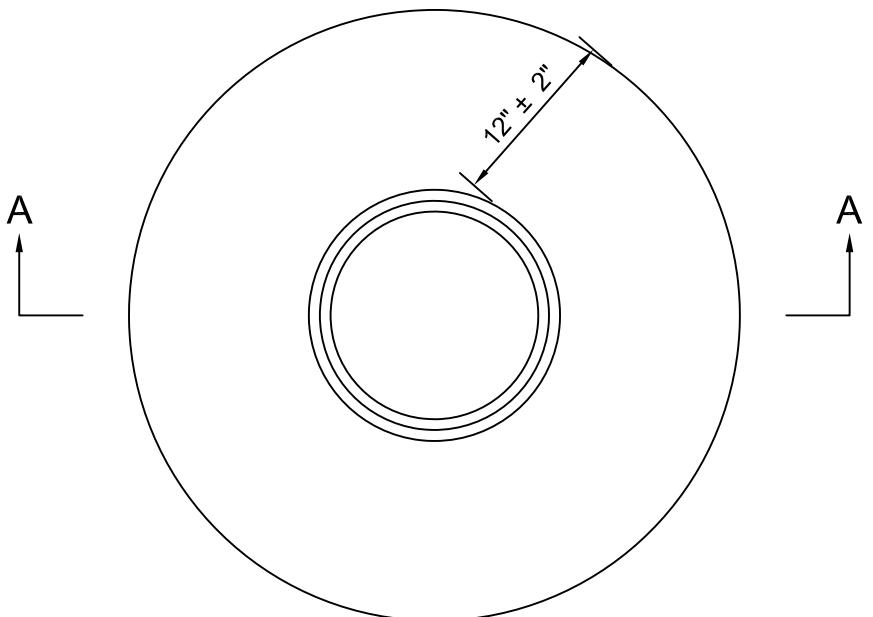
Concrete deck

This drawing replaces
APWA Plan 345
August 2018

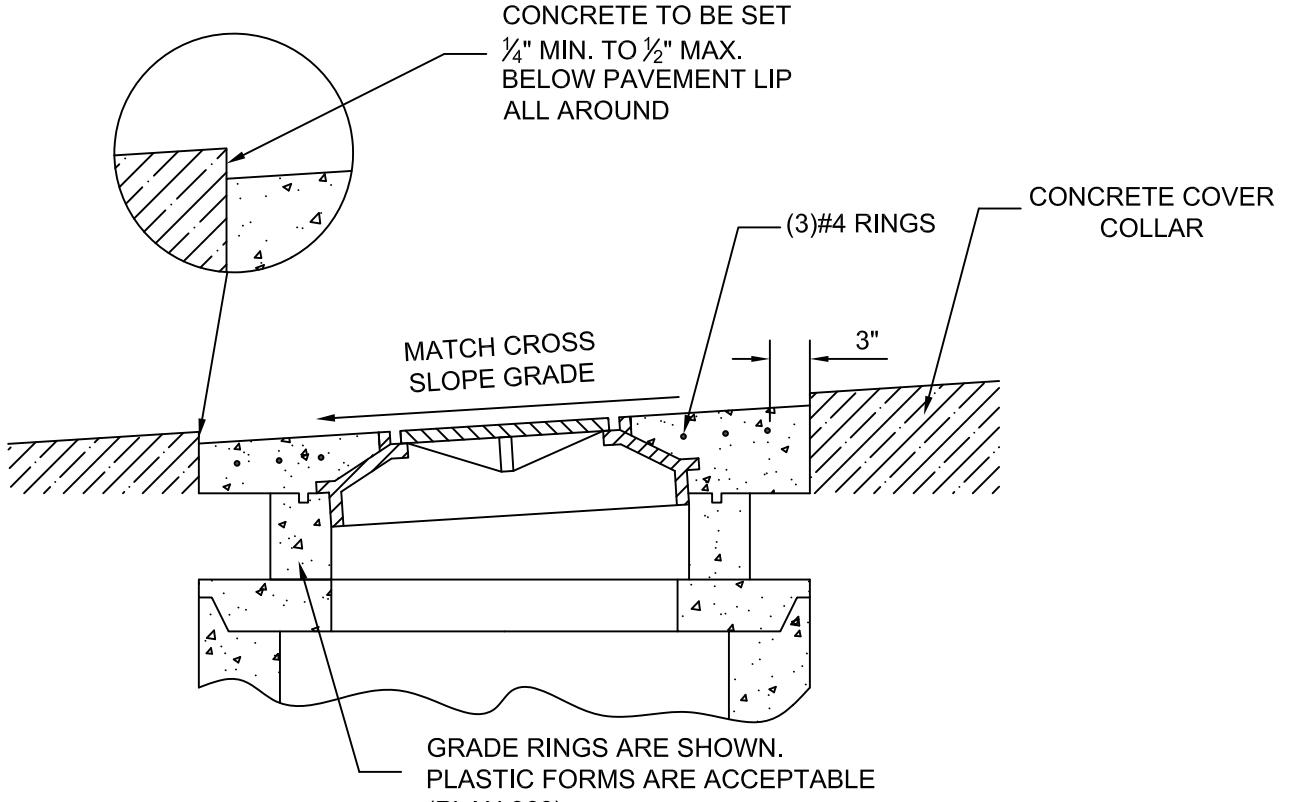
Cover collar for storm drains

1. GENERAL
 - A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. PRODUCTS
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing bituminous concrete surfaces. Clean edges of all dirt, oil, and loose debris.
 - B. Concrete Placement: APWA Section 03 30 10. Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

362	SHEET	DATE	SEPTEMBER, 2018	COVER COLLAR FOR STORM DRAINS	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE, UTAH 84115 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115	<table border="1"><tr><td>DRAWN BY</td><td>UNIKON LI</td><td>DATE</td><td>MADE BY</td><td>REVISION</td><td>AUTHORIZED BY NO.</td></tr><tr><td>CHECKED BY</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SCALE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DATE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SEPT. 10TH 2018</td><td></td><td></td><td></td><td></td><td></td></tr></table>	DRAWN BY	UNIKON LI	DATE	MADE BY	REVISION	AUTHORIZED BY NO.	CHECKED BY						SCALE						DATE						SEPT. 10TH 2018					
DRAWN BY	UNIKON LI	DATE	MADE BY	REVISION	AUTHORIZED BY NO.																																
CHECKED BY																																					
SCALE																																					
DATE																																					
SEPT. 10TH 2018																																					



PLAN
(ROUND FRAME)



SECTION A-A

Cover collar for storm drains

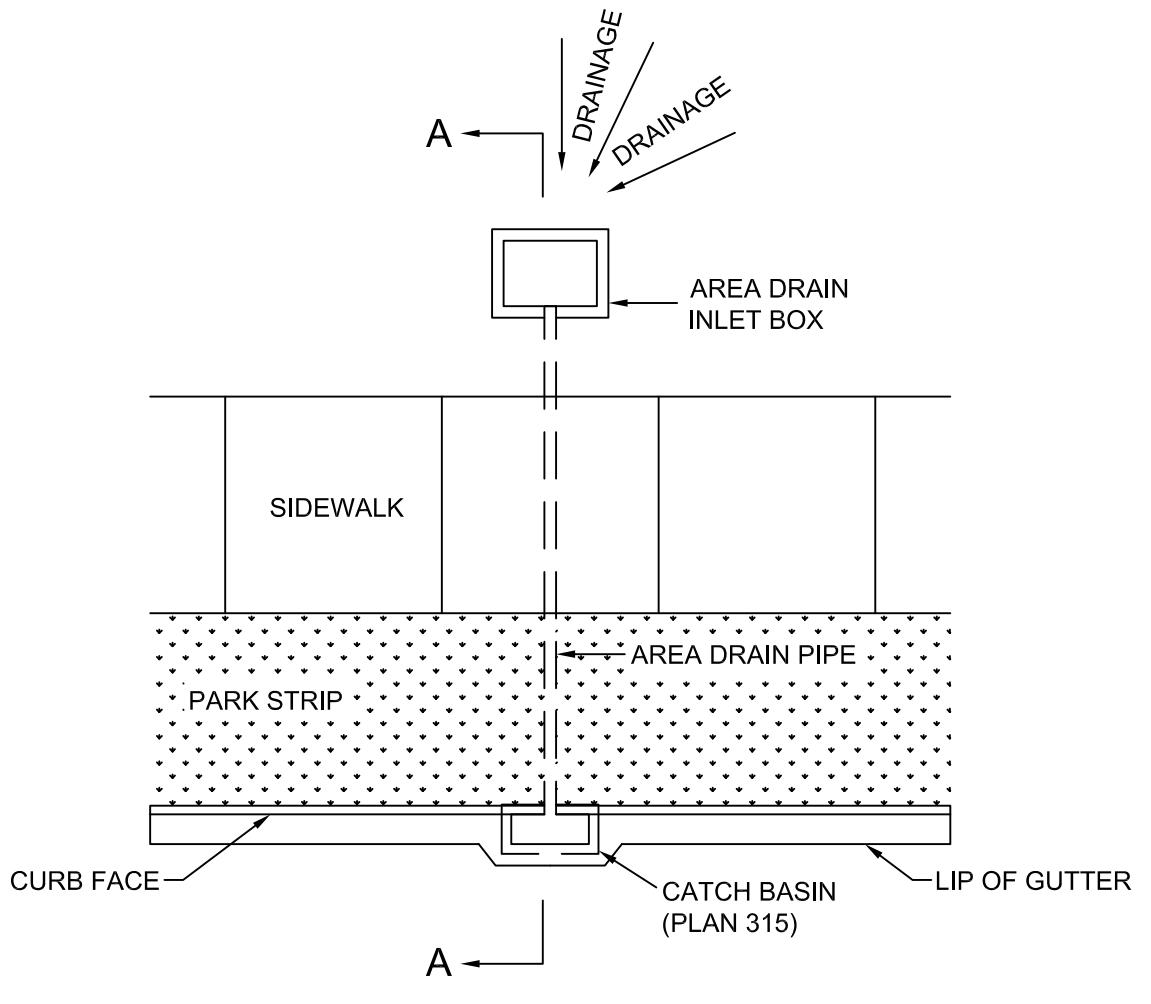
This drawing replaces
APWA Plan 362
August 2018

		SHEET	
		362	
		DATE	SEPTEMBER, 2018
COVER COLLAR FOR STORM DRAINS			
SOUTH SALT ENGINEERING DEPARTMENT		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	
LINSON LI			
DRAWN BY		CHECKED BY	
		SCALE	
		DATE	
		MADE BY	
		REVISION	
NO. AUTHORIZED BY			

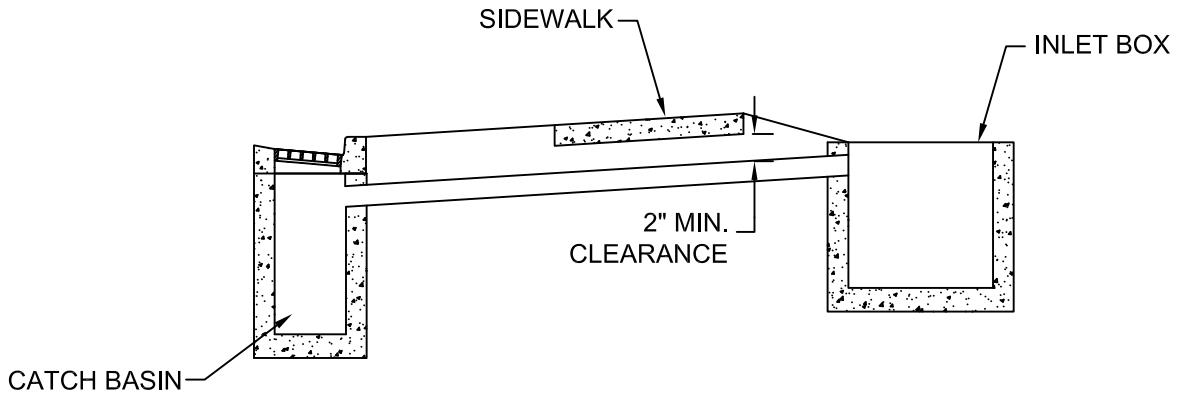
Area drain

1. GENERAL
 - A. Provide an underground drainage system to convey drain water from areas back of sidewalk to the curb face.
2. PRODUCTS
 - A. Backfill: Native soil.
 - B. Concrete: Class 4000, APWA Section 03 30 04.
 - C. Casting: Grey iron class 35 minimum, ASTM A48, coated with asphalt based paint or better.
 - D. Area Drain Pipe: PVC unless specified elsewhere.
 - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - B. Backfill Placement: Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

372	SHEET	SEPTEMBER, 2018
AREA DRAIN	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE, UTAH 84115 220 E MORRIS AVENUE DRAWN BY: LINGKUN LI CHECKED BY: DATE: MADE BY: REVISION: AUTHORIZED BY: NO: SCALE: DATE: SEPT. 10TH 2018



PLAN (ROUND FRAME)



SECTION A-A

Area drain

This drawing replaces
APWA Plan 372
August 2018

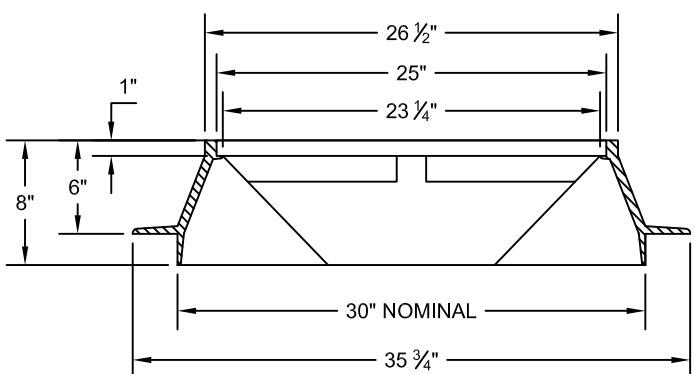
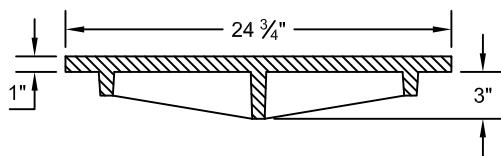
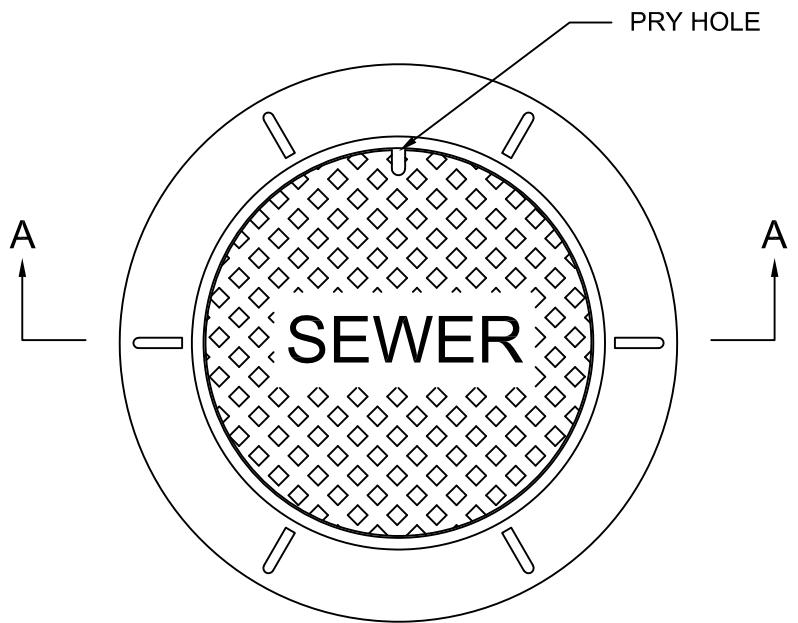
SHEET 372		DATE SEPTEMBER, 2018		AREA DRAIN		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	
DRAWN BY LUNGKUN LI		CHECKED BY SCALE		MADE BY DATE		REVISION	
SOUTH SALT LAKE ENGINEERING DEPARTMENT		220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115		MAY 26TH 2020			
NO. AUTHORIZED BY							

PART 4
SANITARY SEWER

30" Frame and cover

1. GENERAL
 - A. The frame and cover fits the manhole in APWA Plan 411.
2. PRODUCTS
 - A. Casting: Grey iron class 35 minimum, ASTM A48, coated with asphalt based paint or better (except on machined surfaces).
 - 1) Cast the heat number on the frame and cover.
 - 2) Give the frame and cover a machine finish so the cover will not rock.
 - 3) ✓ designates machined surface.
 - 4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.
3. EXECUTION
 - A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

402	SHEET	30" FRAME AND COVER	DATE																														
SEPTEMBER, 2018																																	
		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS																															
 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115		<table border="1"><tr><td>DRAWN BY</td><td>UNGSUN LI</td><td>DATE</td><td>MADE BY</td><td>REVISION</td><td>AUTHORIZED BY NO.</td></tr><tr><td>CHECKED BY</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SCALE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DATE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="6">SEPT. 10TH 2018</td></tr></table>		DRAWN BY	UNGSUN LI	DATE	MADE BY	REVISION	AUTHORIZED BY NO.	CHECKED BY						SCALE						DATE						SEPT. 10TH 2018					
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CHECKED BY																																	
SCALE																																	
DATE																																	
SEPT. 10TH 2018																																	



SECTION A-A

30" Frame and cover

This drawing replaces
APWA Plan 402
August 2018

PART 6
IRRIGATION AND LANDSCAPING

Stationary head

1. GENERAL
 - A. Before backfilling around head, get ENGINEER's inspection of head installation.
2. PRODUCTS
 - A. Heads: Plastic or steel.
3. EXECUTION
 - A. Adjust heads to final landscape grade and adjust throttle controls to obtain required coverage over final landscape grade.
 - B. Keep flush heads 1/2-inch below edge of pavement surfaces and flush with surrounding sod or seeded areas.
 - C. Compact backfill around heads to prevent settling.
 - D. Cut sod around head to fit.

621	SHEET	DATE
SEPTEMBER, 2018	STATIONARY HEAD	

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE

SOUTH SALT LAKE, UTAH 84115

DATE

SCALE

CHECKED BY

DRAWN BY

UNIQUE ID

DATE MADE BY

REVISION

AUTHORIZED BY NO.

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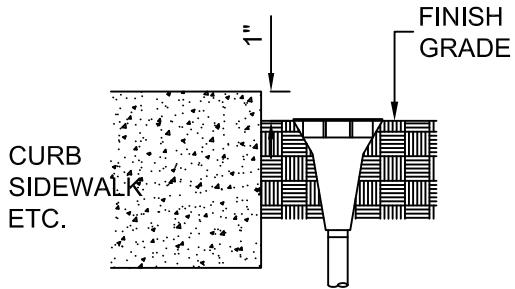
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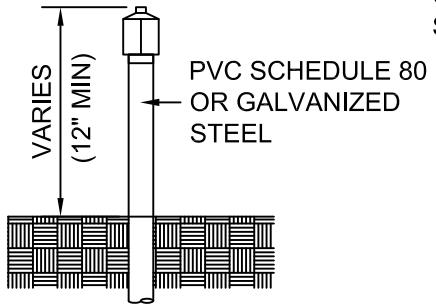
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SSL Plan 621

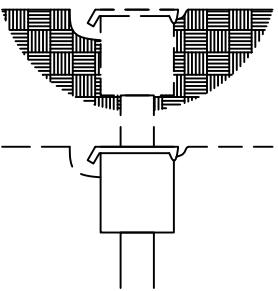


**TYPE F
FLUSH HEAD**

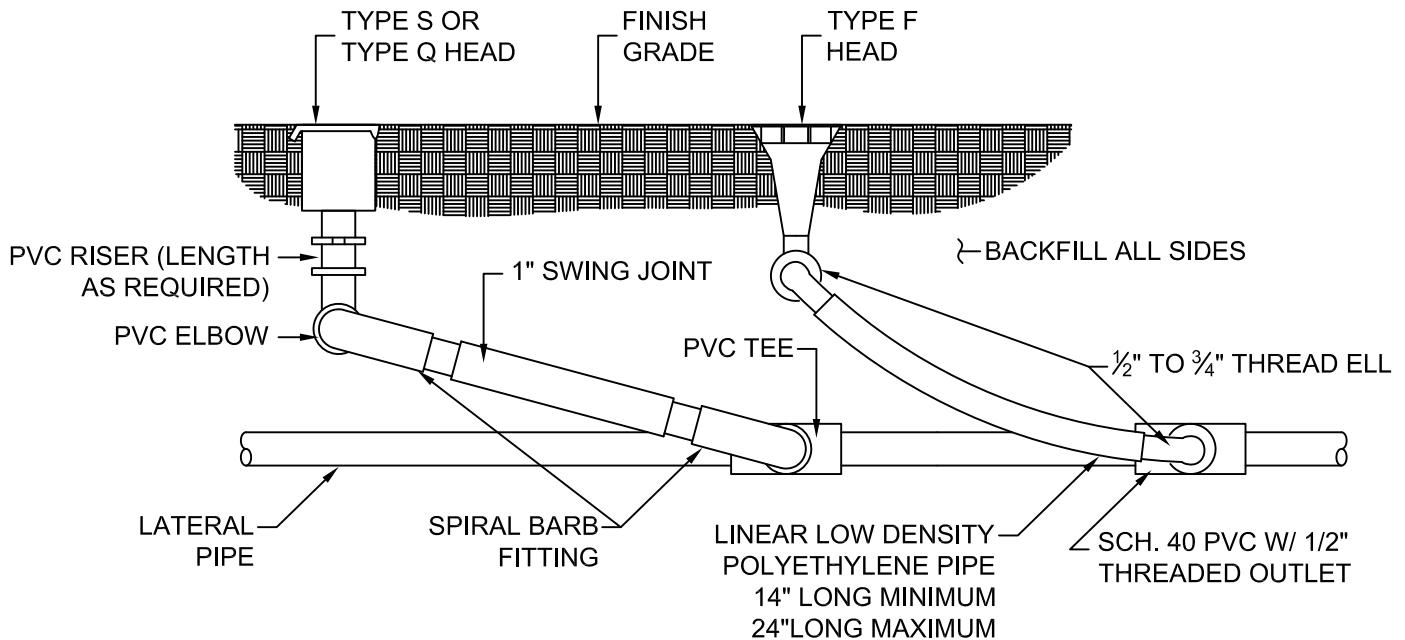


**TYPE S
SHRUB HEAD**

6" to 12" BELOW FINISH GRADE WHEN LANDSCAPED SURFACE IS ESTABLISHED



**TYPE Q
QUICK COUPLER**



SECTION

Stationary head

This drawing replaces
APWA Plan 621
September 2018

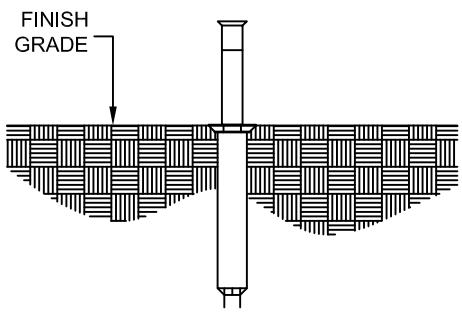
DRAWN BY	LINCOLN LI	APWA	SHEET	621
CHECKED BY			DATE	SEPTEMBER, 2018
SCALE				
DATE				
MADE BY				
REVISION				
NO. AUTHORIZED BY				

Pop-up head

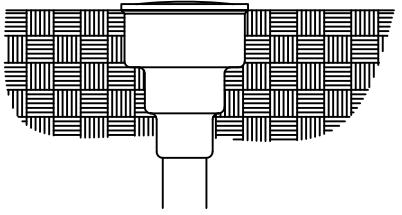
1. GENERAL
 - A. Before backfilling around head, get ENGINEER's inspection of head installation.
2. PRODUCTS
 - A. Heads: Plastic, brass, or steel.
3. EXECUTION
 - A. Adjust heads to final landscape grade and adjust throttle controls to obtain required coverage over final landscape grade.
 - B. Keep flush heads 1/2-inch below edge of pavement surfaces and flush with surrounding sod or seeded areas.
 - C. Compact backfill around heads to prevent settling.
 - D. Cut sod around head to fit.

622 SHEET SEPTEMBER, 2018 DATE	POP-UP HEAD	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
			DRAWN BY LNGKUN LI	DATE 2018-09-01	MADE BY REVISION A	REVISION A	AUTHORIZED BY NO.	REVISION A	REVISION A	REVISION A
CHECKED BY SCALE DATE SEPT. 10TH 2018										

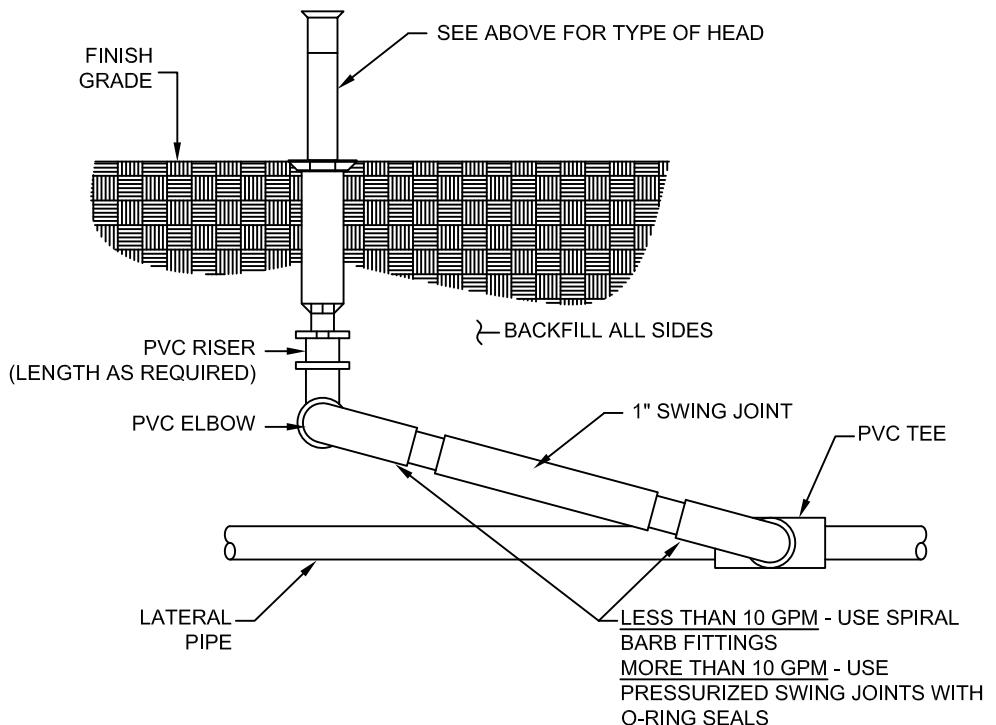
SSL Plan 622



**TYPE N
NOZZLE HEAD**



**TYPE R
ROTOR HEAD**



SECTION

Pop-up head

This drawing replaces
APWA Plan 622
September 2018

**SOUTH SALT LAKE
CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**



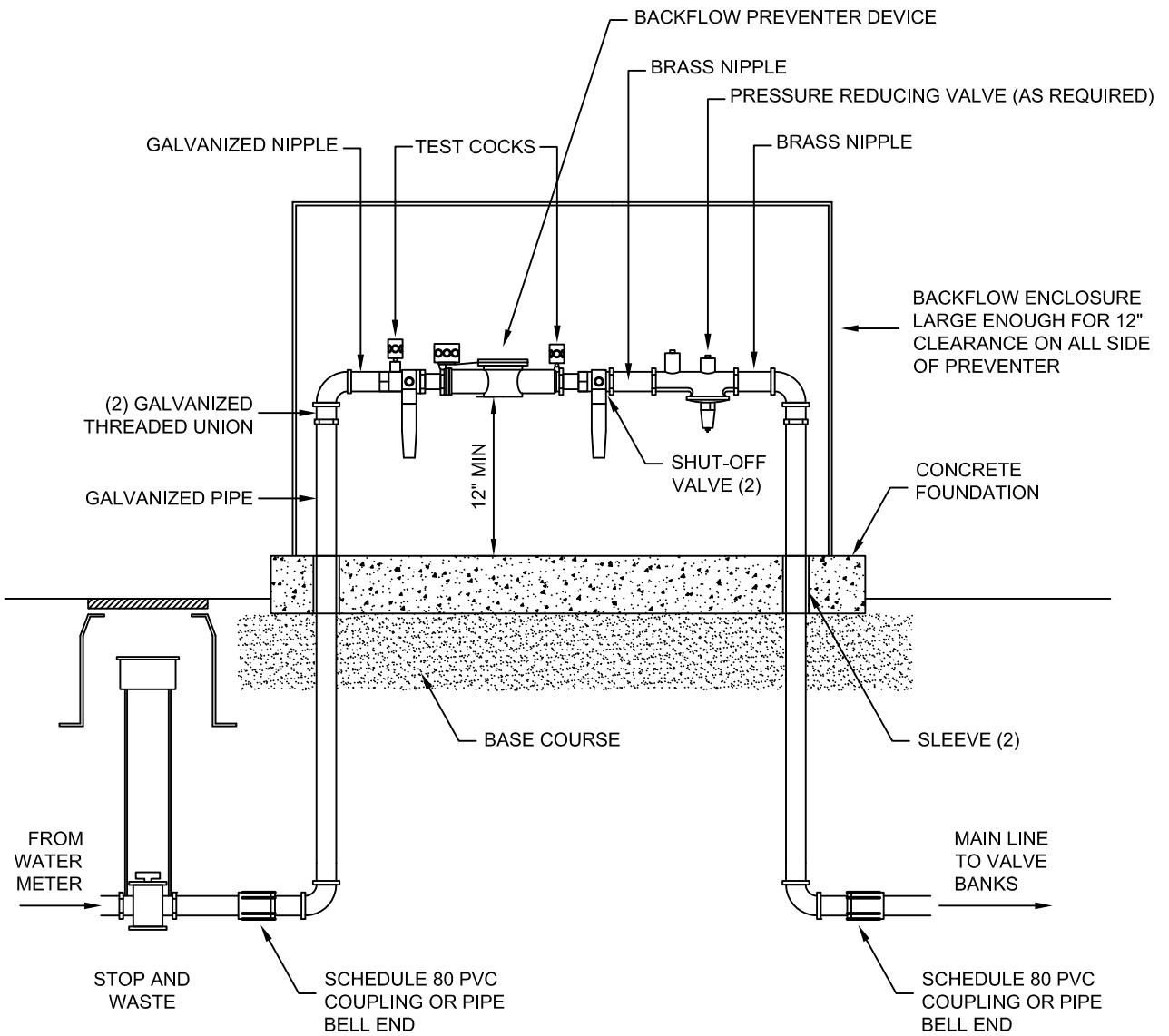
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CHECKED BY	
SCALE	
DATE	SEPT. 10TH 2018
MADE BY	
REVISION	
NO. AUTHORIZED BY	

622
DATE
SEPTEMBER, 2018

Backflow preventer

631.1 DATE SEPTEMBER, 2018	SHEET BACKFLOW PREVENTER	<ol style="list-style-type: none">1. GENERAL<ol style="list-style-type: none">A. Test the backflow preventer within 10 days of installation by a licensed backflow device tester and report results to ENGINEER.B. Tester is to assure CONTRACTOR and ENGINEER that the backflow preventer system meets the Utah Safe Drinking Water Act.2. PRODUCTS<ol style="list-style-type: none">A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.C. Concrete: Class 4000, APWA Section 03 30 04.D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00E. Paint: Epoxy based. Color to be selected by ENGINEER.3. EXECUTION<ol style="list-style-type: none">A. Install per plumbing code. It must not be susceptible to flooding and must be accessible at all times for testing, repair, inspection, etc.B. Install backfill around concrete box. Compact in 8-inch lifts to 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.C. Except machined surfaces, coat all items in atmosphere with epoxy paint.D. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.									
		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS		SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
DRAWN BY LNGKUN LI CHECKED BY SCALE DATE SEPT. 10TH 2018		DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	DATE MADE BY REVISION AUTHORIZED BY NO.	

LESS THAN 3" DIAMETER



Backflow preventer

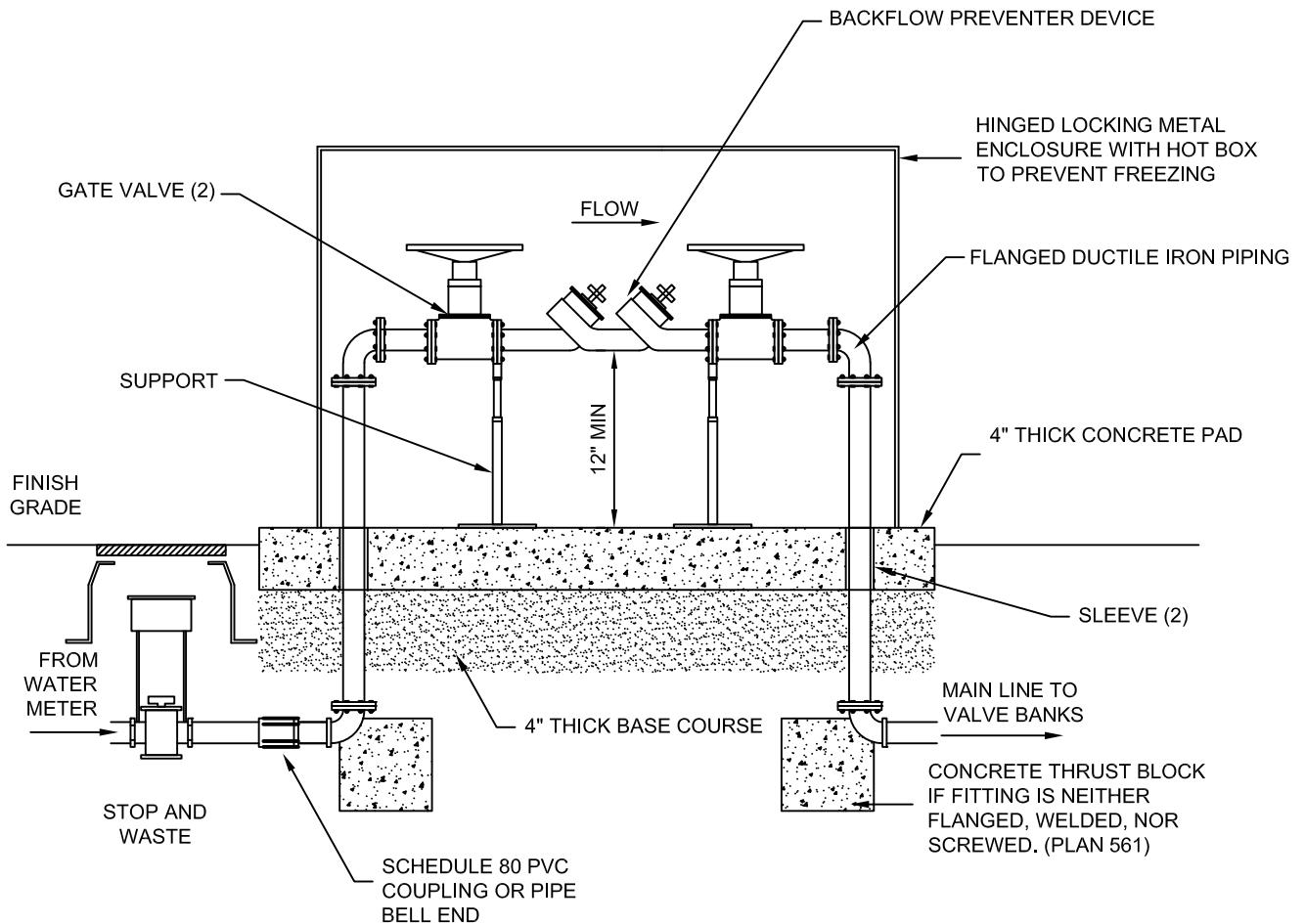
This drawing replaces
APWA Plan 631.1
September 2018

		SHEET		631.1
		DATE		SEPTEMBER, 2018
BACKFLOW PREVENTER				
CITY OF SOUTH SALT LAKE STANDARD DRAWINGS				
DRAWN BY	LINSON LI	CHECKED BY	SCALE	
APPROVED BY				
MADE BY		DATE		
REVISION				
NO. AUTHORIZED BY				

Backflow preventer

1. GENERAL
 - A. Test the backflow preventer within 10 days of installation by a licensed backflow device tester and report results to ENGINEER.
 - B. Tester is to assure CONTRACTOR and ENGINEER that the backflow preventer system meets the Utah Safe Drinking Water Act.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00
 - E. Paint: Epoxy based. Color to be selected by ENGINEER.
3. EXECUTION
 - A. Install per plumbing code. It must not be susceptible to flooding and must be accessible at all times for testing, repair, inspection, etc.
 - B. Install backfill around concrete box. Compact in 8-inch lifts to 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - C. Except machined surfaces, coat all items in atmosphere with epoxy paint.
 - D. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

3" AND LARGER



Notes:

1. Notes for APWA Standard Plan 631.2 shall apply to this drawing.

Backflow preventer

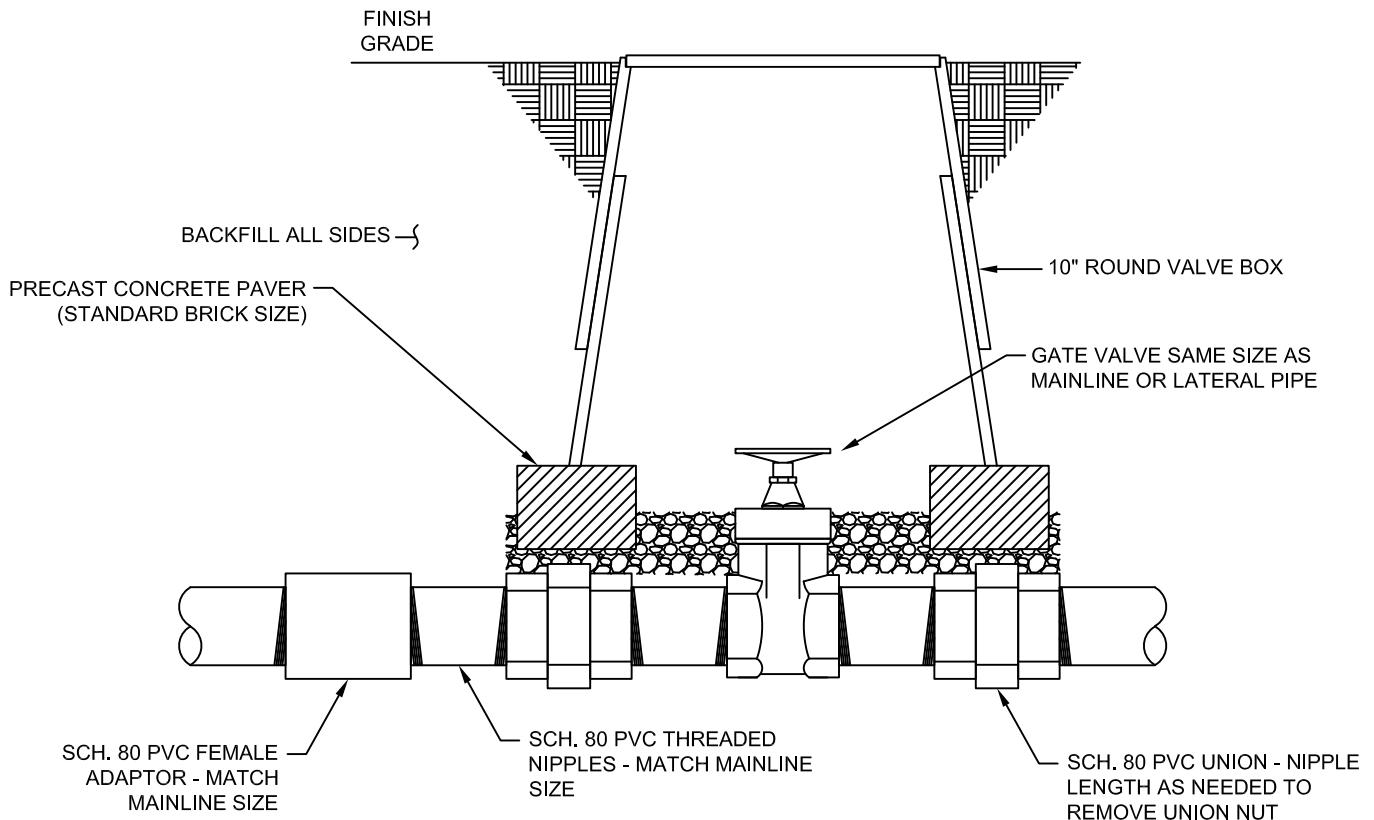
This drawing replaces
APWA Plan 631.2
September 2018

		SHEET		631.2
		DATE		SEPTEMBER, 2018
BACKFLOW PREVENTER				
CITY OF SOUTH SALT LAKE STANDARD DRAWINGS				
DRAWN BY	LINSON LI	CHECKED BY		
SCALE		SCALE		
DATE		DATE		
MADE BY		MADE BY		
REVISION		REVISION		
NO. AUTHORIZED BY				

Isolation valve

1. GENERAL
 - A. Before backfilling around the isolation valve, get ENGINEER's inspection of valve installation. System must be pressurized during inspection.
2. PRODUCTS
 - A. Backfill: APWA Section 31 05 13.
 - 1) Gravel with a maximum particle size 2-inches.
 - 2) Native soil.
 - B. Gate Valve: Bronze, double disk wedge type with integral taper seats and non-rising stem.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
3. EXECUTION
 - A. Install backfill material around pipe and valve box and compact to prevent settling.
 - B. Install automatic controllers and wiring per manufacturer's recommendations.
 - C. Place concrete, APWA Section 03 30 10
 - D. Return salvaged valves to ENGINEER unless specified otherwise.

635 SHEET DATE SEPTEMBER, 2018	ISOLATION VALVE	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 <p>220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115</p> <table border="1"><tr><td>DRAWN BY</td><td>UNIKON LI</td><td>DATE</td><td>MADE BY</td><td>REVISION</td><td>AUTHORIZED BY NO.</td></tr><tr><td>CHECKED BY</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SCALE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DATE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="6">SEPT. 10TH 2018</td></tr></table>												DRAWN BY	UNIKON LI	DATE	MADE BY	REVISION	AUTHORIZED BY NO.	CHECKED BY						SCALE						DATE						SEPT. 10TH 2018					
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Isolation valve

This drawing replaces
APWA Plan 635
September 2018

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**



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DATE	SEPT. 10TH 2018
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SHEET
635
DATE
SEPTEMBER, 2018

Wire runs for landscape irrigation

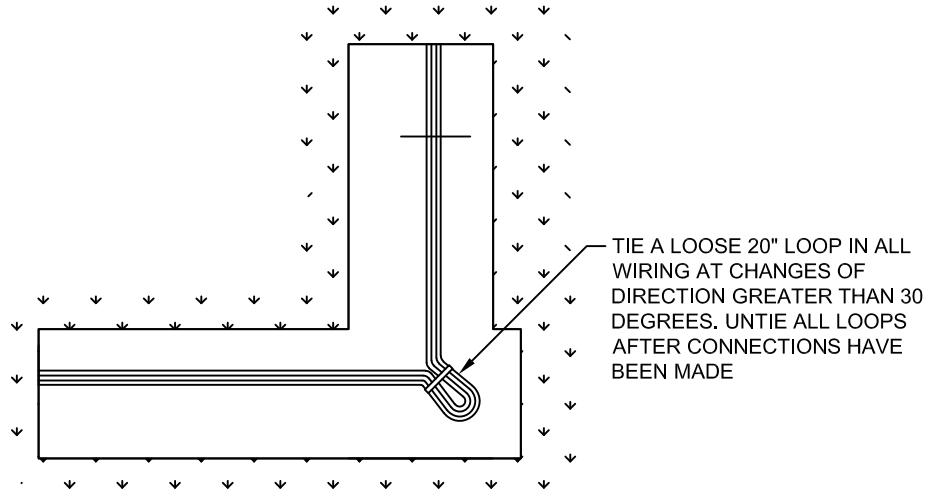
1. GENERAL
 - A. Before backfilling, get ENGINEER's inspection of valve installation.
2. PRODUCTS
 - A. Control Wire: UF-UL listed copper.
 - B. Insulation: PVC for direct burial.
3. EXECUTION
 - A. Backfill: Place backfill in trench. Water jetting is NOT allowed. Compact to 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - B. Lateral Pipe: Where lateral pipe runs parallel to a mainline (pressure) pipe, do not install over main line pipe.
 - C. Control Wire: Provide 12-inches of expansion loop wire at each valve and every 100 feet of wire length. Use waterproof wire connectors at all splices.

651
SHEET
SEPTEMBER, 2018
DATE
WIRE RUNS FOR LANDSCAPE
IRRIGATION

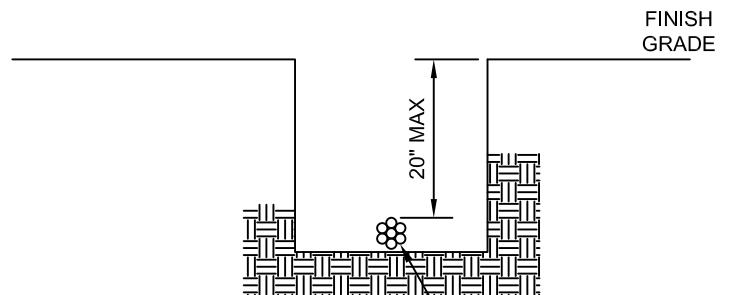
CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS

IS SOUTHLAKE
ENGINEERING
DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

DRAWN BY
UNISON LI
CHECKED BY
SCALE
DATE
SEPT. 10TH 2018

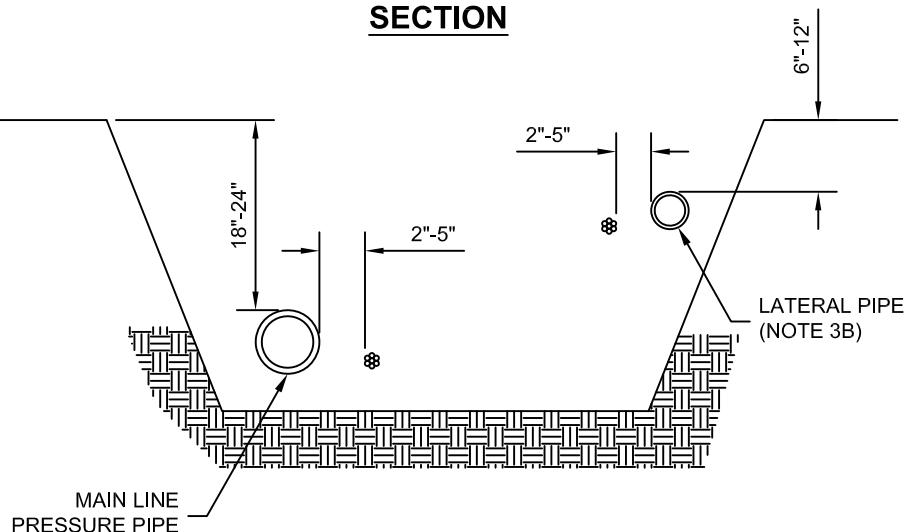


PLAN



TUBING OR WIRING,
TAPE BUNDLE AT
10' INTERVALS

SECTION



SECTION

Wire runs for landscape irrigation

This drawing replaces
APWA Plan 651
September 2018

Tree in park strip

681.1
SHEET
JANUARY, 2019
DATE

TREE IN PARK STRIP

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



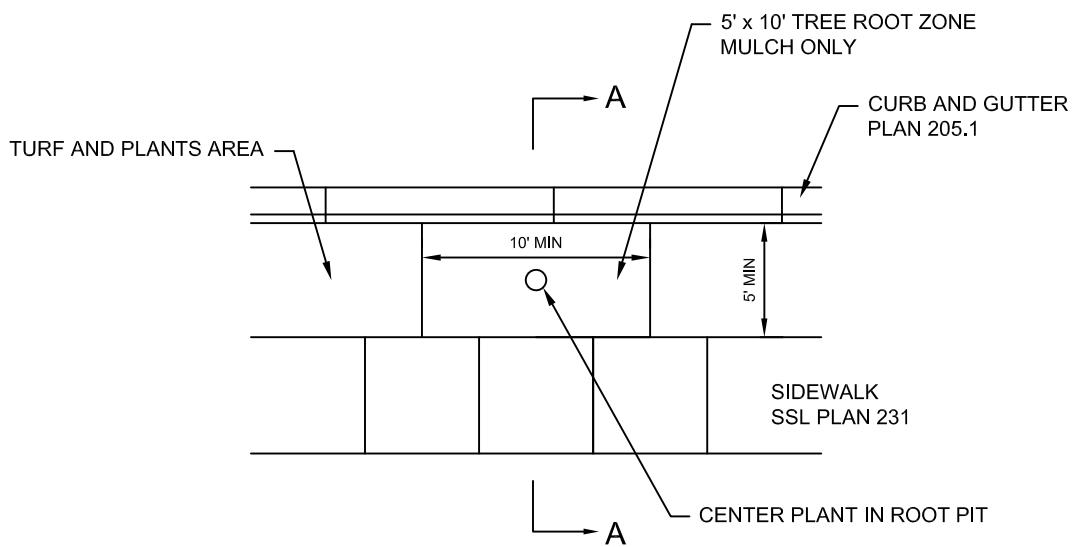
SOUTH SALT LAKE
ENGINEERING
DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84116

SOUTH SALT LAKE
ENGINEERING
DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84116

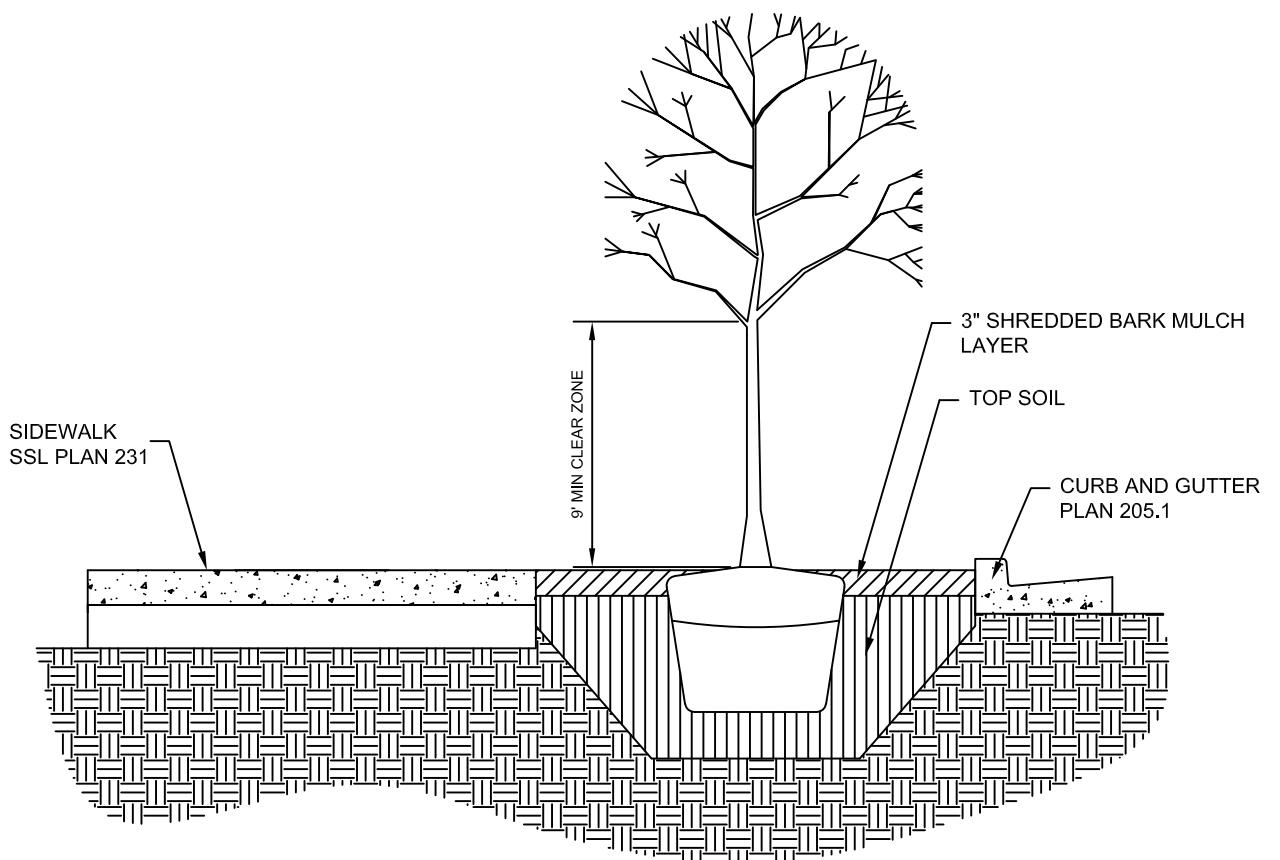
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CHECKED BY
SCALE
DATE
JAN. 31ST 2019

1. GENERAL
 - A. Definitions:
 - 1) Large Tree: Over 50 feet tall at maturity.
 - 2) Medium Tree: Between 30 and 50 feet tall at maturity.
 - 3) Small Tree: Up to 30 feet tall at maturity.
 - 4) Tree Size: Average caliper diameter measured 6" above the root ball.
2. PRODUCTS
 - A. Tree:

Size	Width of Planting Area
Large	8 feet or larger
Medium	5 feet or larger
Small	3 feet or larger
 - B. Mulch: APWA Section 32 93 43.
3. EXECUTION
 - A. Tree Selection and Planting Location: Consult ENGINEER to prevent the damage to existing infrastructures and in comply with the Utah Manual on Uniform Traffic Control Devices (MUTCD) sight distance.
 - B. Root Ball:
 - 1) Prune circling roots, protruding root stubs, and fibrous matted roots flush with the root ball. Handle root ball with care. Minimize crumbling, cracking, and splitting.
 - 2) After placing the tree in the hole remove wire and burlap if stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap. Leave no twine or burlap on or near the surface of the ball or around the trunk. Cut vertical slits in burlap that remains. Do not fold burlap into the hole.
 - C. Containers: Slide root balls out of containers. Do not pull on the trunk. If is too larger, cut the container off after the tree is placed in the planting site.
 - D. Backfill and Watering:
 - 1) Use soil removed from the hole as backfill.
 - 2) Compact backfill in 6" layers. Water. Allow water to soak deeply into the soil. Make sure ball gets thoroughly wet.



PLAN



Tree in park strip

		SHEET		681.1
		DATE		JANUARY, 2019
TREE IN PARK STRIP				
SOUTH SALT LAKE	CITY OF SOUTH SALT LAKE	STANDARD DRAWINGS		
SOUTHLAKE ENGINEERING DEPARTMENT	220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115			
DRAWN BY	LINHON LI	CHECKED BY		
REVISION		SCALE		
NO. AUTHORIZED BY		DATE		JAN. 31ST 2019

Tree in planter

681.2
SHEET
DATE
JANUARY, 2019

TREE IN PLANTER

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE

SOUTH SALT LAKE, UTAH 84115

DATE
JAN. 31ST 2019

1. GENERAL
 - A. Definitions:
 - 1) Large Tree: Over 50 feet tall at maturity.
 - 2) Medium Tree: Between 30 and 50 feet tall at maturity.
 - 3) Small Tree: Up to 30 feet tall at maturity.
 - 4) Tree Size: Average caliper diameter measured 6" above the root ball.

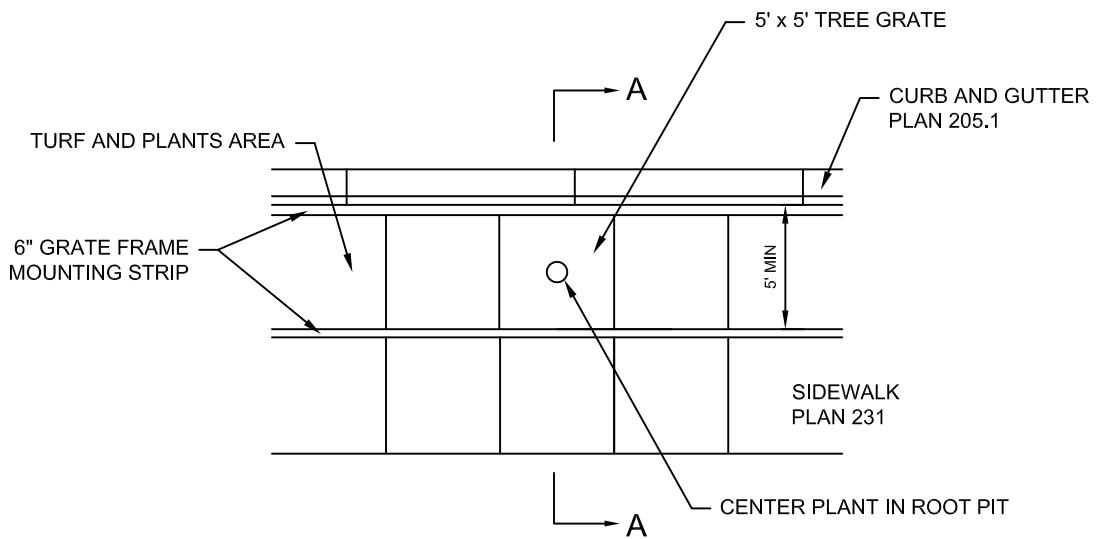
2. PRODUCTS

- A. Tree:

Size	Width of Planting Area
Large	8 feet or larger
Medium	5 feet or larger
Small	3 feet or larger
- B. Mulch: APWA Section 32 93 43.

3. EXECUTION

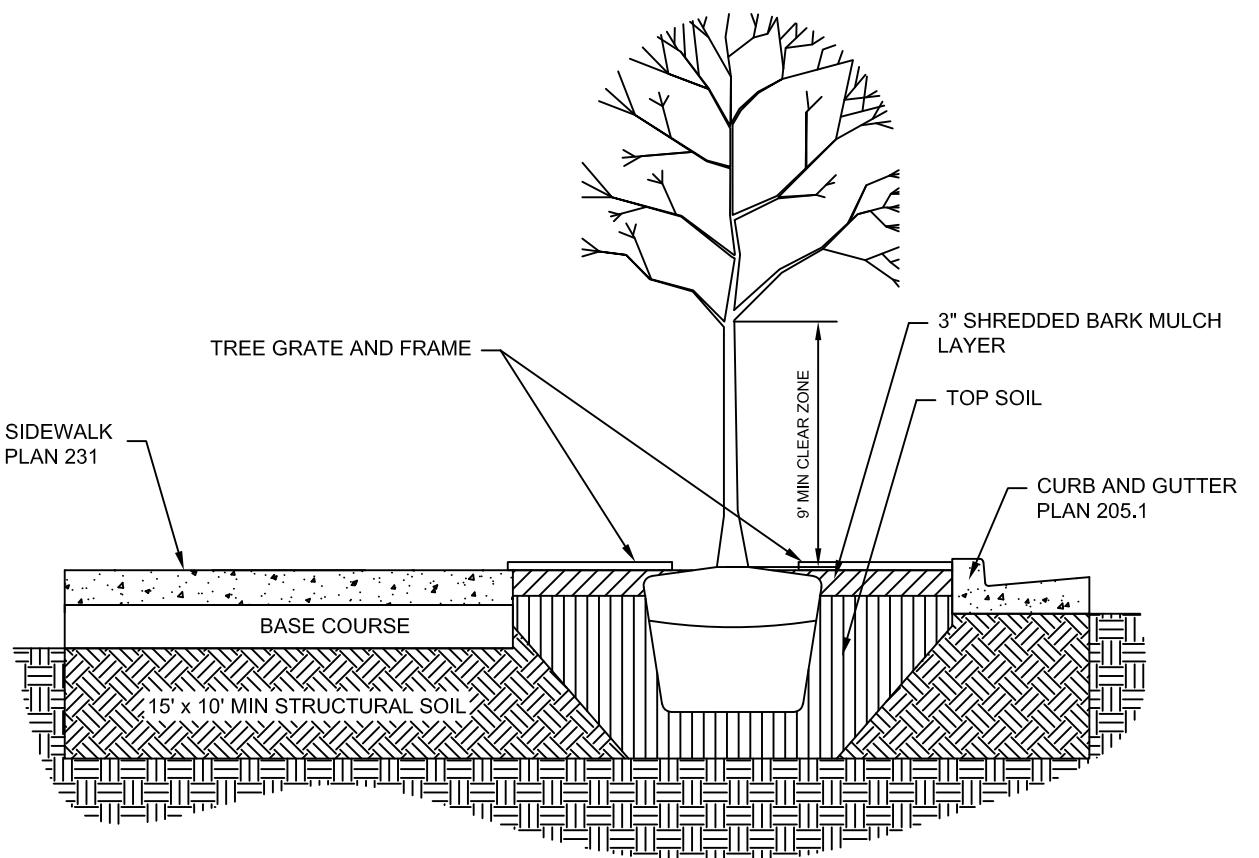
- A. Tree Selection and Planting Location: Consult ENGINEER to prevent the damage to existing infrastructures and in comply with the Utah Manual on Uniform Traffic Control Devices (MUTCD) sight distance.
- B. Root Ball:
 - 1) Prune circling roots, protruding root stubs, and fibrous matted roots flush with the root ball. Handle root ball with care. Minimize crumbling, cracking, and splitting.
 - 2) After placing the tree in the hole remove wire and burlap if stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap. Leave no twine or burlap on or near the surface of the ball or around the trunk. Cut vertical slits in burlap that remains. Do not fold burlap into the hole.
- C. Containers: Slide root balls out of containers. Do not pull on the trunk. If is too larger, cut the container off after the tree is placed in the planting site.
- D. Backfill and Watering:
 - 1) Use soil removed from the hole as backfill.
 - 2) Compact backfill in 6" layers. Water. Allow water to soak deeply into the soil. Make sure ball gets thoroughly wet.



681.2
JANUARY, 2019

SHEET
DATE

PLAN



**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**



DRAWN BY
LIPSON LI
CHECKED BY
SCALE
DATE
JAN. 31ST 2019

MADE BY
DATE
REVISION
NO. AUTHORIZED BY

SECTION A-A

Tree in planter

Tree in landscape

681.3
JANUARY, 2019
SHEET
DATE

TREE IN LANDSCAPE

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

DRAWN BY
CHECKED BY
SCALE
DATE

UNISON LI
DATE
MADE BY
REVISION
AUTHORIZED BY
NO.

1. GENERAL
 - A. Definitions:
 - 1) Large Tree: Over 50 feet tall at maturity.
 - 2) Medium Tree: Between 30 and 50 feet tall at maturity.
 - 3) Small Tree: Up to 30 feet tall at maturity.
 - 4) Tree Size: Average caliper diameter measured 6" above the root ball.

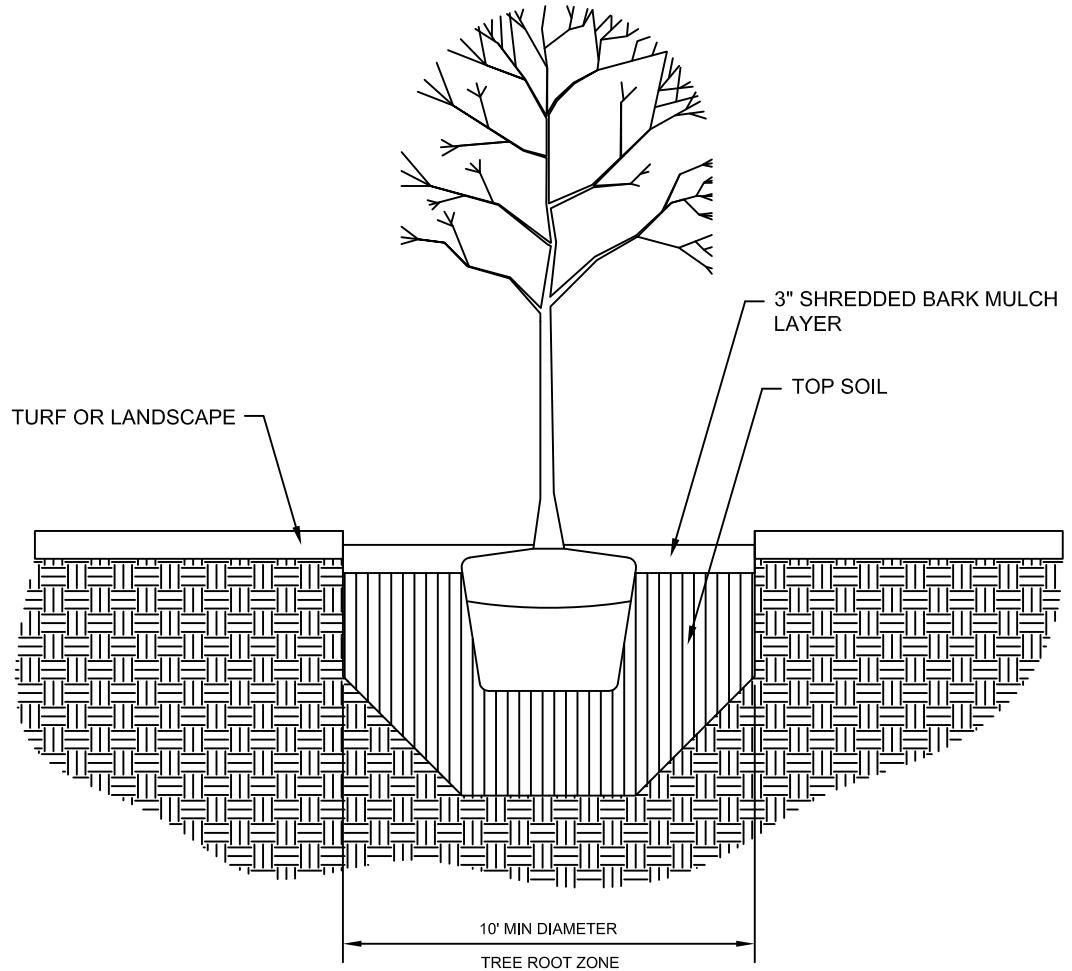
2. PRODUCTS

- A. Tree:

Size	Width of Planting Area
Large	8 feet or larger
Medium	5 feet or larger
Small	3 feet or larger
- B. Mulch: APWA Section 32 93 43.

3. EXECUTION

- A. Tree Selection and Planting Location: Consult ENGINEER to prevent the damage to existing infrastructures and in comply with the Utah Manual on Uniform Traffic Control Devices (MUTCD) sight distance.
- B. Root Ball:
 - 1) Prune circling roots, protruding root stubs, and fibrous matted roots flush with the root ball. Handle root ball with care. Minimize crumbling, cracking, and splitting.
 - 2) After placing the tree in the hole remove wire and burlap if stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap. Leave no twine or burlap on or near the surface of the ball or around the trunk. Cut vertical slits in burlap that remains. Do not fold burlap into the hole.
- C. Containers: Slide root balls out of containers. Do not pull on the trunk. If is too larger, cut the container off after the tree is placed in the planting site.
- D. Backfill and Watering:
 - 1) Use soil removed from the hole as backfill.
 - 2) Compact backfill in 6" layers. Water. Allow water to soak deeply into the soil. Make sure ball gets thoroughly wet.

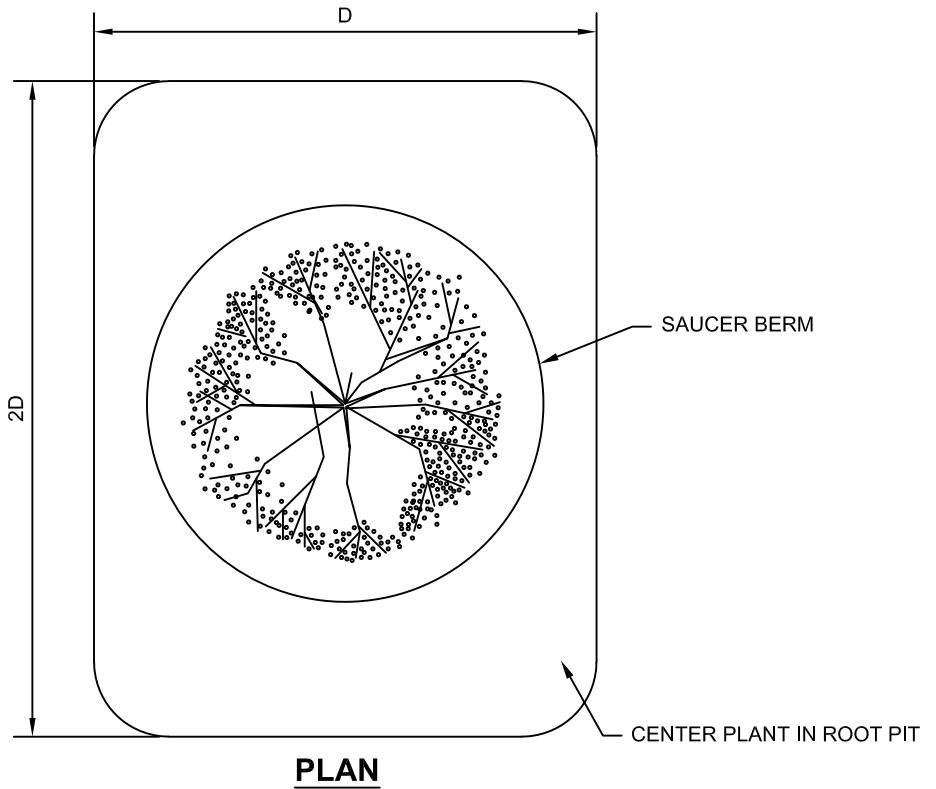


Tree in landscape

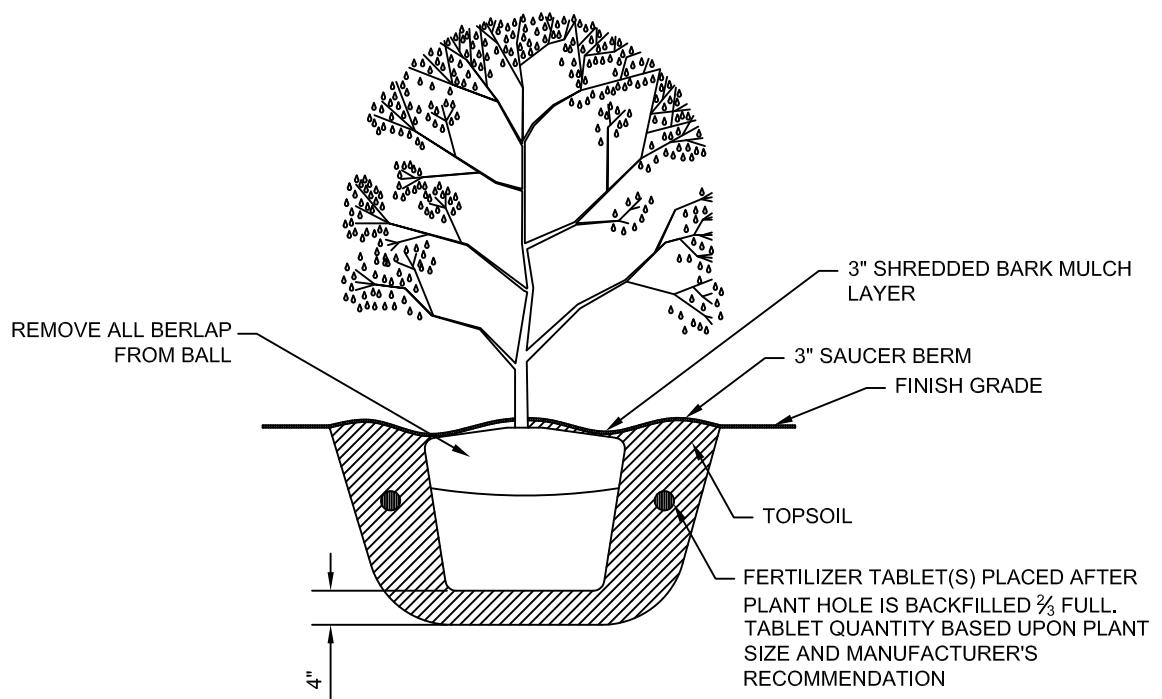
Shrubs and bushes

1. GENERAL
 - A. Before placing the shrub or bush, get ENGINEER's inspection of excavation.
 - B. Perform work in conformity with applicable requirements of American Association of Nurserymen, Inc. (AAN).
2. PRODUCTS
 - A. Commercial Fertilizer: Uniform in composition meeting FS O-F-241 requirements.
 - B. Wood or Wood Cellulose Fiber: Free of growth or germination inhibiting ingredients.
3. EXECUTION
 - A. Set shrubs and bushes at nursery depth.
 - B. Install and compact all backfill material to prevent settling.

683 SHEET SEPTEMBER, 2018 DATE	SHRUBS AND BUSHES	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
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SCALE <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
DATE SEPT. 10TH 2018	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							



PLAN



SECTION

Shrubs and bushes

This drawing replaces
APWA Plan 683
September 2018

DRAWN BY	LINSON LI	checked by	
checked by		SCALE	
SCALE		DATE	SEPT. 10TH 2018
DATE		MADE BY	DATE
MADE BY		REVISION	
REVISION		NO. AUTHORIZED BY	
NO. AUTHORIZED BY			

SOUTH SALT LAKE CITY OF SOUTH SALT LAKE STANDARD DRAWINGS

SHRUBS AND BUSHES

683

SEPTEMBER, 2018

SOUTH SALT LAKE CITY OF SOUTH SALT LAKE STANDARD DRAWINGS

SHRUBS AND BUSHES

683

SEPTEMBER, 2018

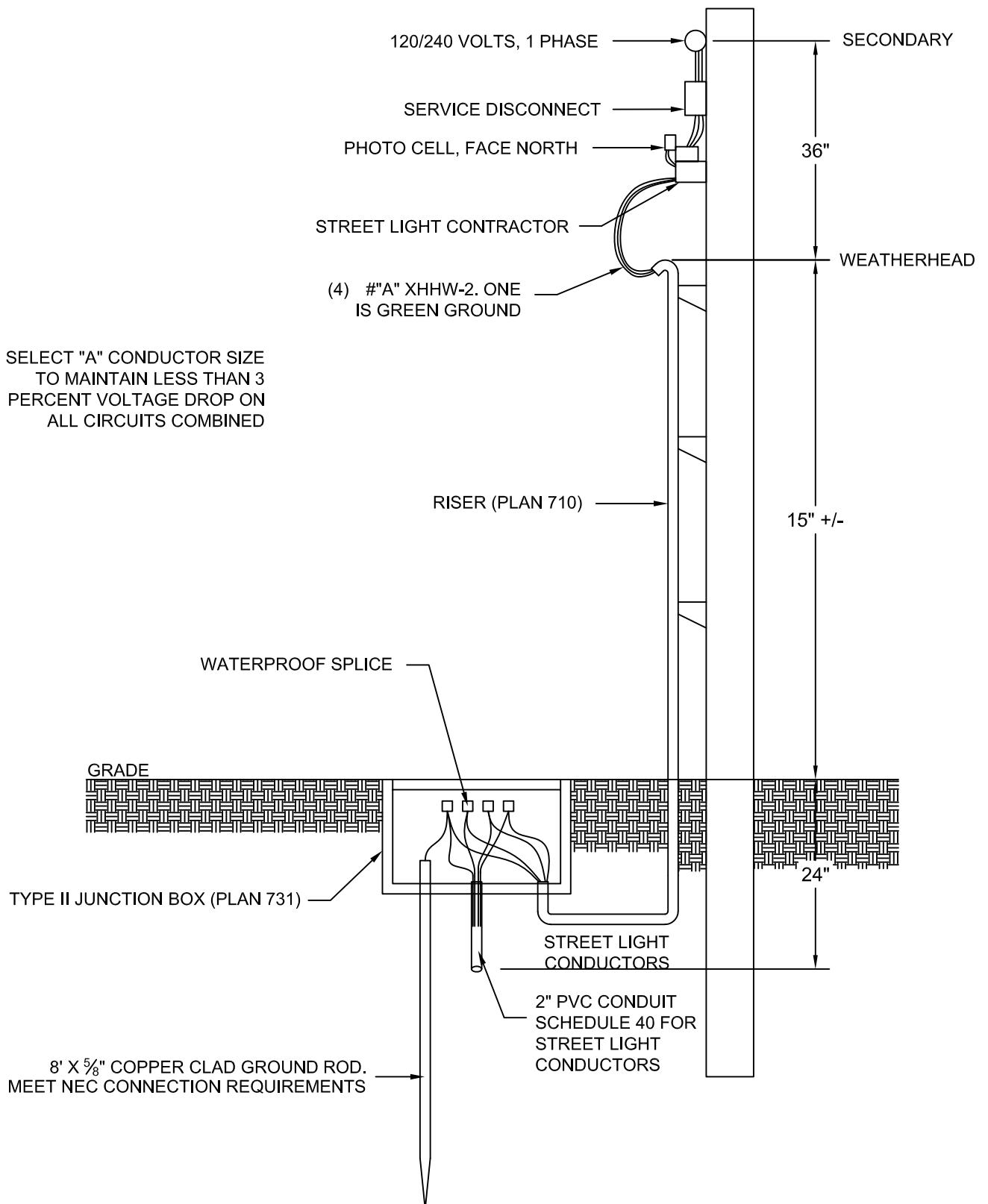
PART 7
LIGHTING, TRAFFIC CONTROL

Street light pole terminal

1. GENERAL
 - A. The drawing is a typical arrangement. Installation varies according to the service provided.
2. PRODUCTS
 - A. Conduit: Galvanized pipe above ground.
 - B. Bolts, Nuts, Washers, Nails, etc.: Galvanized steel.
3. EXECUTION
 - A. Drip Loop Wiring: For risers where CONTRACTOR is required to pull low voltage cable, (120140 volts, 3 or 4 wires) extend enough wire from the conduit so agency can attach it to the 2' drip loop.
 - B. Service Disconnect: APWA Section 26 13 13.
 - C. Ground: Meet NEC requirements.
 - D. Landscaped Restoration: Rake trench backfill to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.

736 SHEET DATE	STREET LIGHT POLE TERMINAL	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115							
			DRAWN BY LNGKUN LI	DATE MARCH 19, 2020	MADE BY REVISION NO.	AUTHORIZED BY NO.				
CHECKED BY SCALE										
DATE										
MAR. 19TH 2020										

SSL Plan 736



Street light pole terminal

This drawing replaces
APWA Plan 736
March 2020

Street light meter pedestal

737	SHEET
MARCH, 2020	DATE

STREET LIGHT METER
PEDESTAL

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS



220 E MORRIS AVENUE

SOUTH SALT LAKE, UTAH 84116

DATE

MAR. 19TH 2020

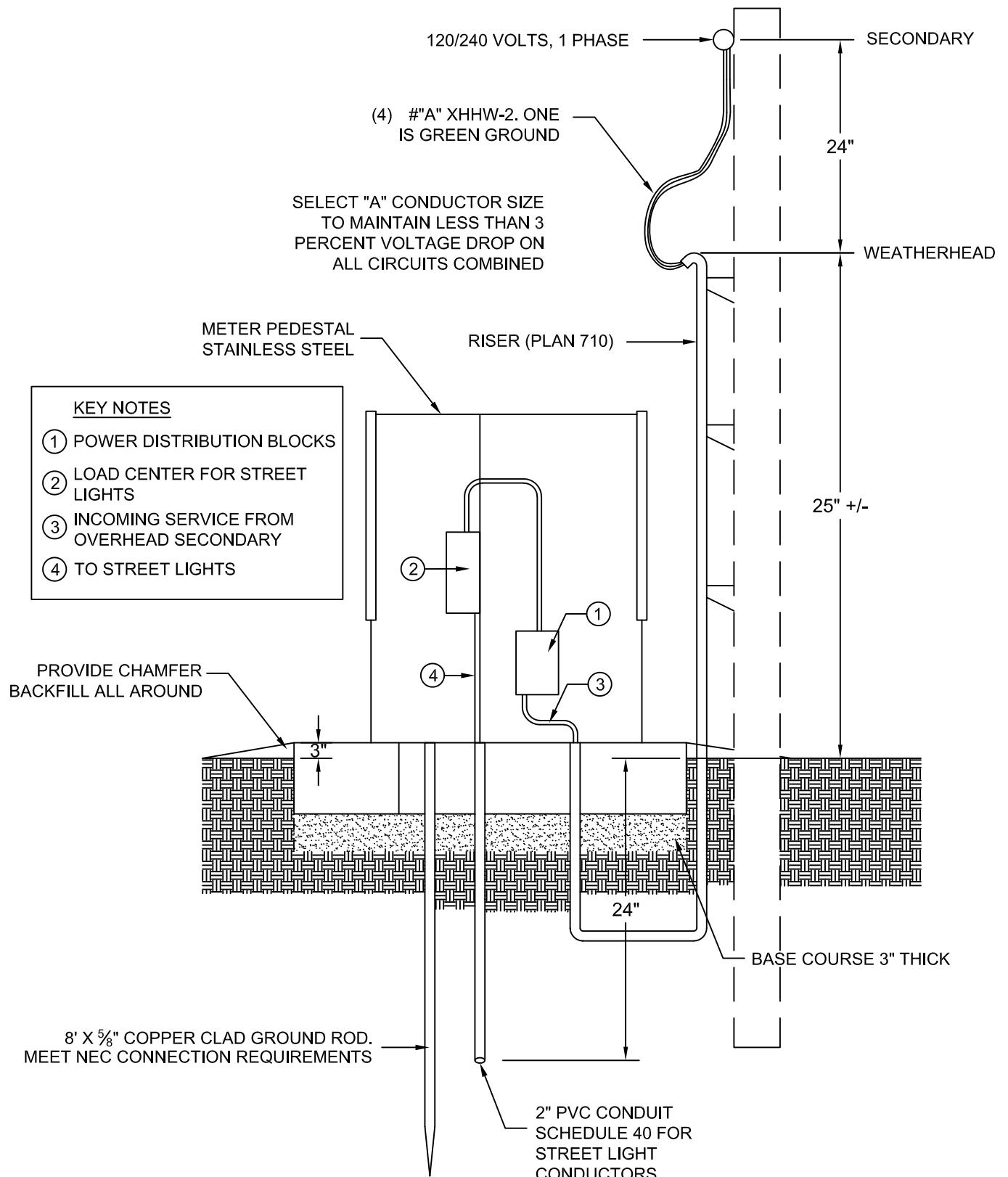
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DATE
MADE BY
REVISION
AUTHORIZED BY
NO.

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1. GENERAL
 - A. Install a concrete foundation for a meter pedestal.
 - B. Verify position and location with ENGINEER before proceeding.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Conduit: PVC, NEMA TC6, Type I for encased burial in concrete, Type II for direct burial. Fittings conform to NEMA TC9.
 - E. Junction Box: Buried type, plastic body and cover in non-vehicular areas or pre-cast concrete in vehicular areas with screw-on cast iron cover both equipped with stainless steel nuts, bolts, screws and washers.
 - F. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - G. Bolts, Nuts, Washers, Accessories: Stainless or galvanized steel, APWA Section 05 05 23.
3. EXECUTION
 - A. Pedestal Foundation Orientation:
 - 1) Not within 18 inches of top back of curb (no exceptions).
 - 2) Not within 12 inches of edge of sidewalk. If less than 12" fill space with 4 inches of concrete and finish to match adjacent surfaces.
 - 3) When the cabinet door is opened all the way, the rotation does not block the sidewalk. There is a paved area for a technician to stand on when working at the pedestal (not in someone's grass or flower bed) and the technician is standing in the right-of-way.
 - B. Trenching: Place all conduits in the same trench where possible. Backfill compaction is 95 percent or greater relative to a standard proctor.
 - C. Wire: Attach the ground side of the power supply to the control cabinet ground terminal. Identify and label all field terminals.
 - D. Conduit:
 - 1) Before concrete placement, place all conduits in the same trench.
 - 2) Provide 1-inch minimum spacing between conduits in cabinet base.
 - 3) Cap or plug conduits at both ends until used.
 - 4) Seal all conduits inside junction box and cabinet after wiring is complete.
 - E. Ground: Meet NEC requirements.
 - F. Base Course and Backfill Placement: Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - G. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish.
 - H. Landscape Restoration: Rake trench backfill to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.



Street light meter pedestal

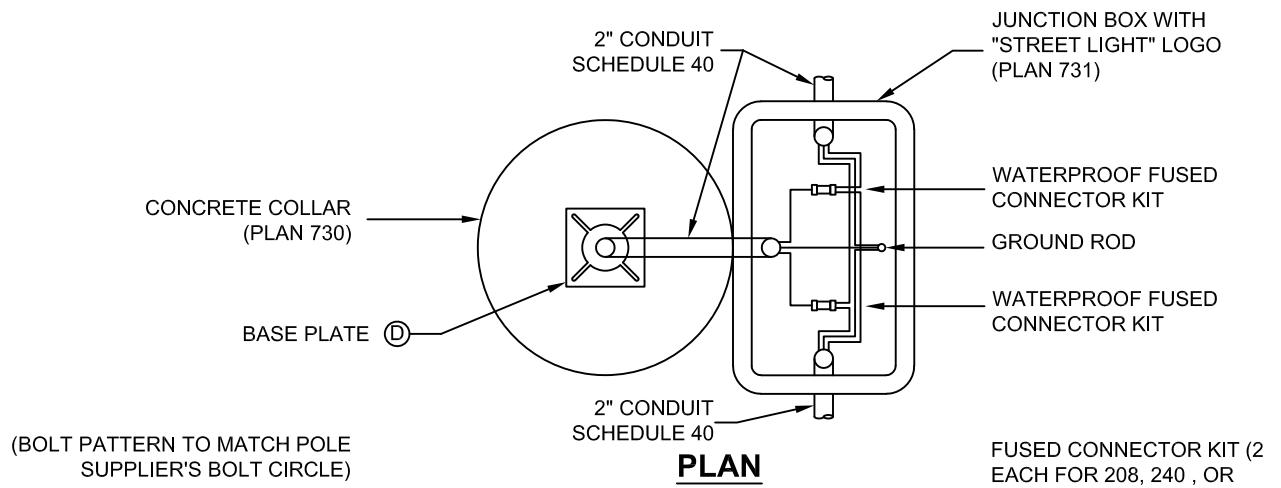
This drawing replaces
APWA Plan 737
March 2020

DRAWN BY	LINCOLN LI	checked by	
checked by		SCALE	
SCALE		DATE	
DATE		APWA 19TH 2020	
APWA 19TH 2020		MADE BY	
MADE BY		REVISION	
REVISION		NO. AUTHORIZED BY	
NO. AUTHORIZED BY		SHEET 737	
		DATE MARCH, 2020	
		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	
		STREET LIGHT METER PEDESTAL	
SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115			

Screw-in base street light pole

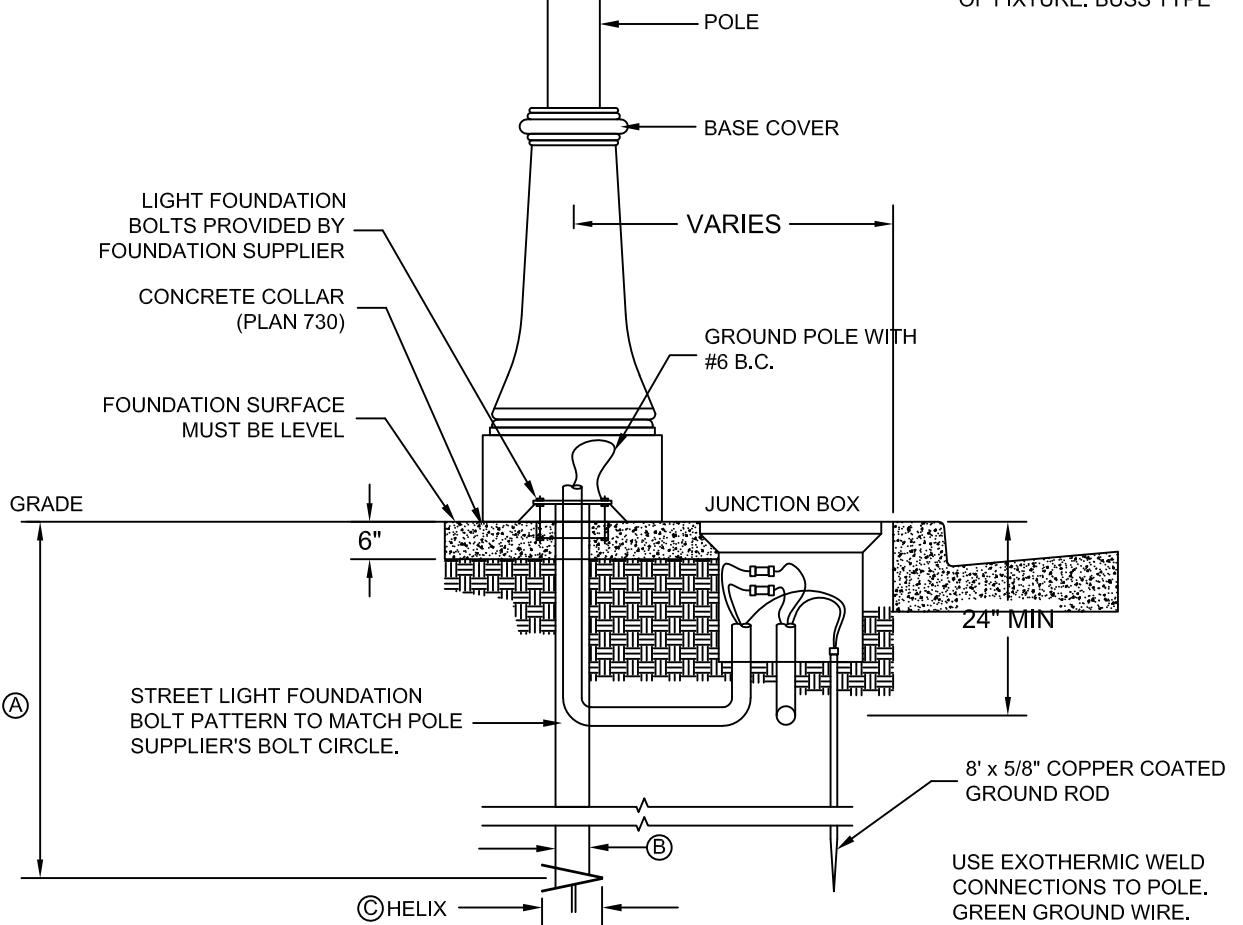
1. GENERAL
 - A. Before screwing in the base, use key holing procedure or other procedure to verify position of underground utilities and pipelines.
2. PRODUCTS
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Ground Cover: Match existing, APWA Section 32 93 13.
 - C. Screw-in Base: Material and dimensions to meet or exceed manufacturer's recommendations.
 - D. Conduit: PVC, Schedule 40.
 - E. Bolts, Nuts, Washers, Accessories: Stainless or galvanized steel, APWA Section 05 05 23.
3. EXECUTION
 - A. Keyhole to verify pole placement and protect utilities, APWA Section 31 23 16.
 - B. Before concrete placement, place all conduits in same trench where possible.

SSL Plan 741



PLAN

FUSED CONNECTOR KIT (2 EACH FOR 208, 240, OR 280 VOLTS, FUSE AT 3 TIMES FULL LOAD AMPS OF FIXTURE. BUSS TYPE)



8' x 5/8" COPPER COATED GROUND ROD
USE EXOTHERMIC WELD CONNECTIONS TO POLE. GREEN GROUND WIRE.

POLE SIZE	LENGTH (A)	SHAFT (B)	HELIX (C)	PLATE (D)
8' - 15'	60"	6.6"	12"	3/4" x 12" SQ
16' - 20'	60"	6.6"	12"	1" x 15 3/4" SQ
21' - 30'	84"	6.6"	14"	1" x 15 3/4" SQ

ELEVATION

Screw-in base street light pole

This drawing replaces
APWA Plan 741
May 2020

SOUTH SALT LAKE
ENGINEERING
DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

DRAWN BY	LINSON LI
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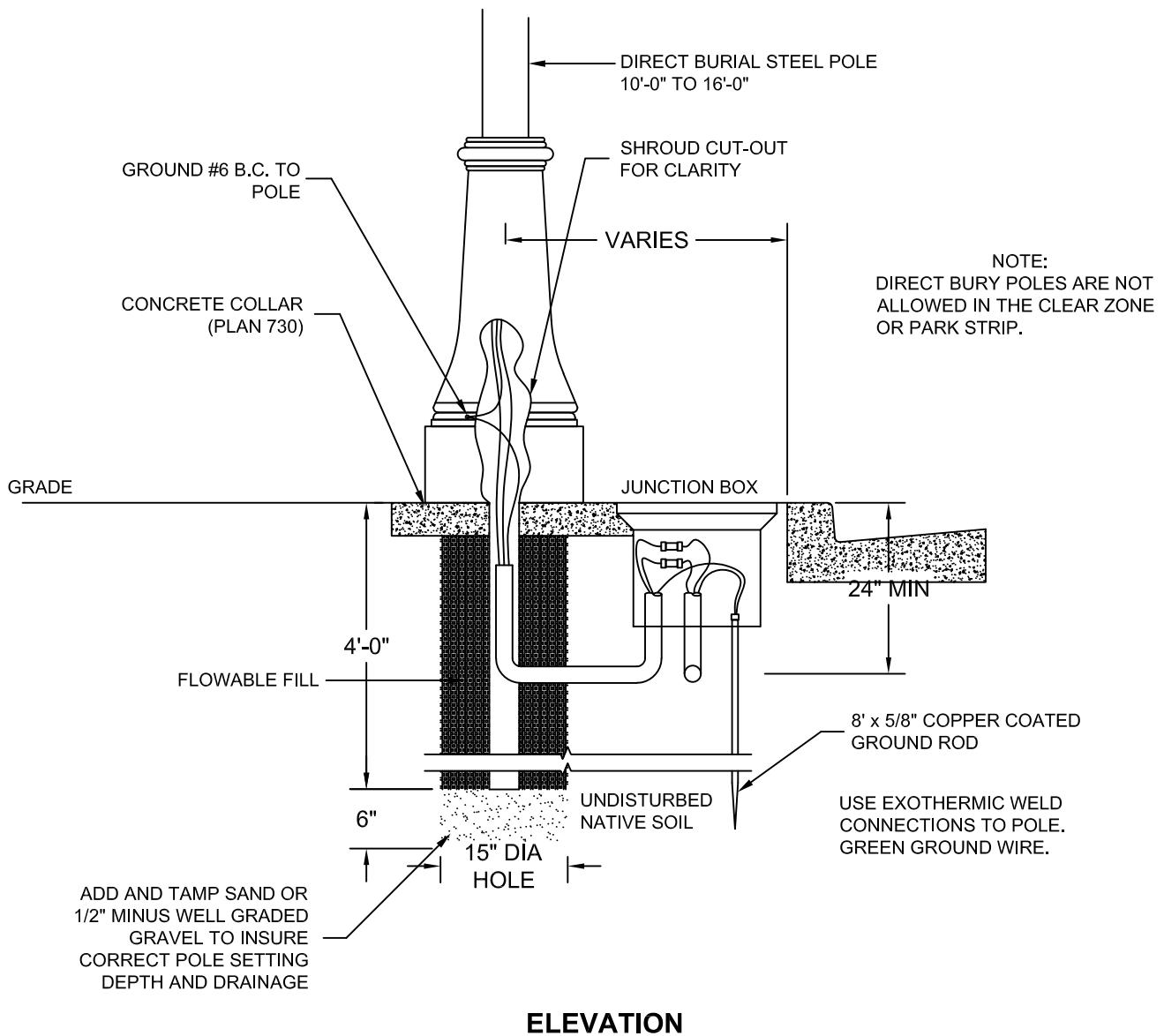
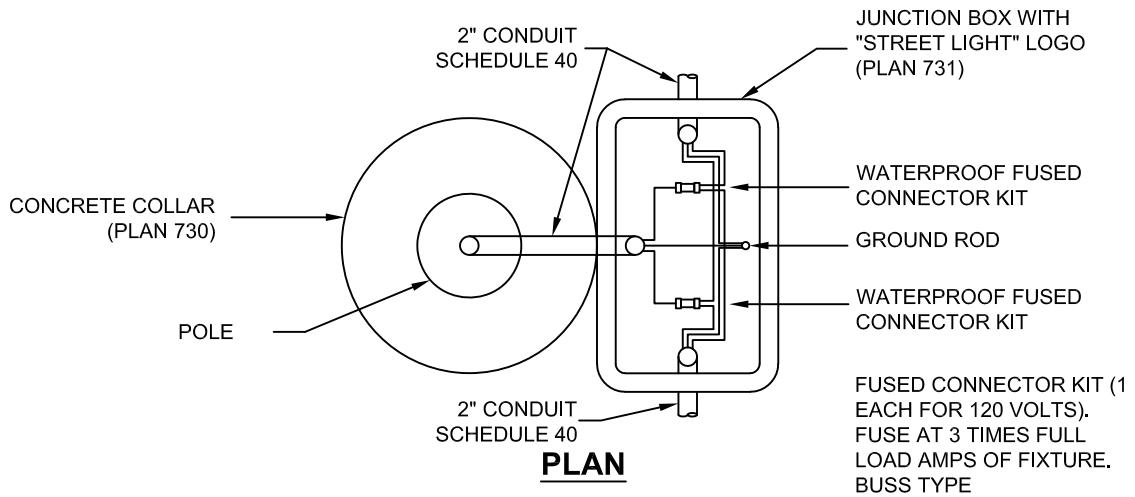
SHEET 741
DATE MAY, 2020

SCREW-IN BASE STREET LIGHT POLE

Direct burial street light pole

1. GENERAL
 - A. Before drilling, use key holing procedure or other procedure to verify position of underground utilities and pipelines.
2. PRODUCTS
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Backfill: Granular backfill borrow or topsoil, APWA Section 31 05 13. Limit particle size to 1-1/2-inches.
 - C. Ground Cover: APWA Section 32 93 13.
 - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
3. EXECUTION
 - A. Keyhole to verify pole placement and protect utilities, APWA Section 31 23 16.
 - B. Excavation: Use vacuum extraction or excavate by hand if utilities are in the site vicinity.
 - C. Flowable Fill: Use a fill material that flows easily and vibration is not required. Cure to initial set before placing concrete collar. Cure the fill for 7 days before erecting luminaire arms.
 - D. Before concrete placement, place all conduits in same trench where possible.

SSI Plan 742



Direct burial street light pole

This drawing replaces
APWA Plan 742
May 2020

DRAWN BY		LINDON LI	
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NO.	AUTHORIZED BY		

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**

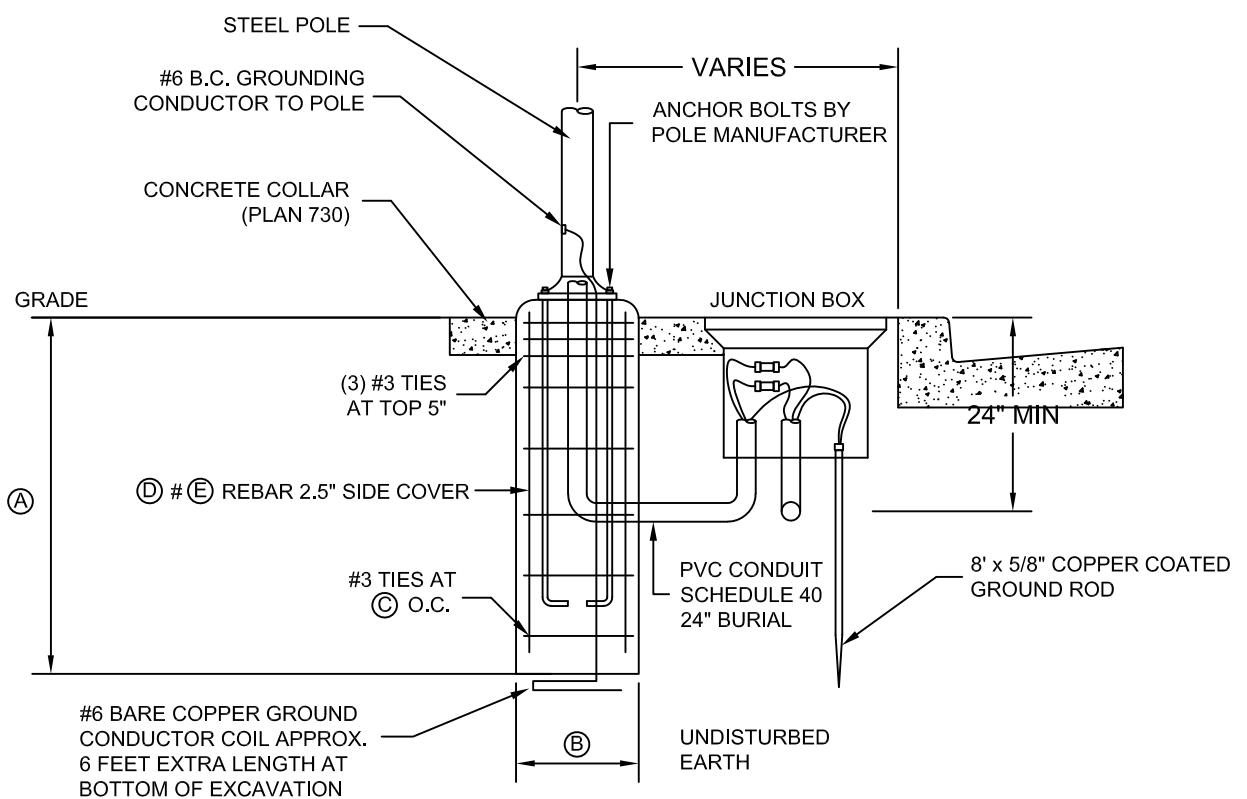
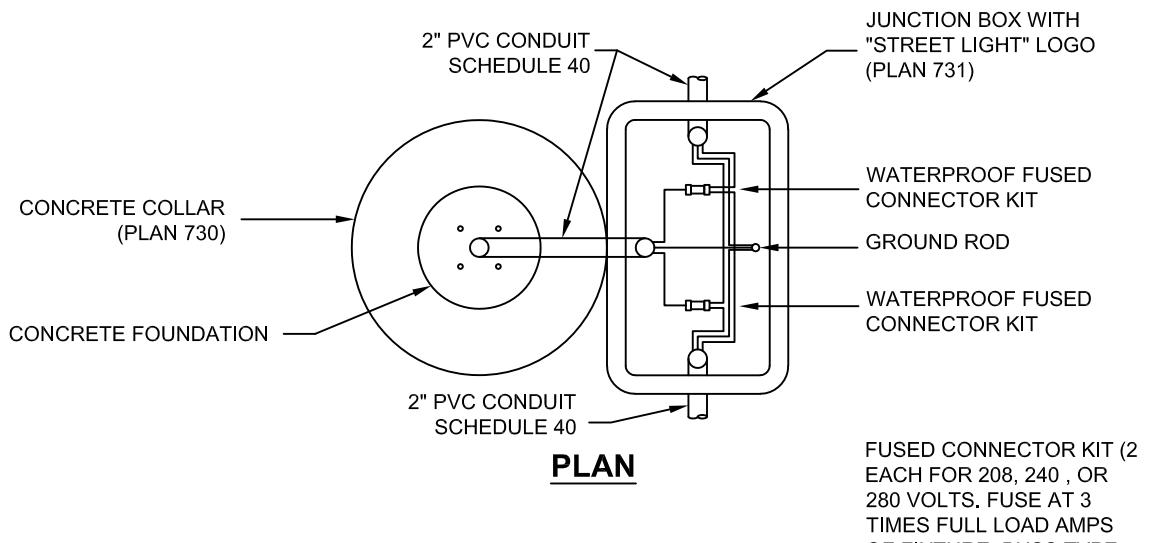
**DIRECT BURIAL STREET LIGHT
POLE**

SHEET 742
DATE MAY, 2020

Concrete base for street light pole

1. GENERAL
 - A. Match longitudinal grades of foundation cap with top of existing curb.
 - B. Establish grade from which foundation elevation is measured.
 - 1) Existing Curb and No Sidewalk: Grade is 1/4-inch per foot sloped upward from the top of the back of curb.
 - 2) Existing Curb and Sidewalk: Straight grade from top back of curb to near edge of sidewalk.
 - 3) Inside of Existing Median. Straight grade between top of back of one curb to top of back of other curb.
 - C. When foundation cap is located in an area to be paved, the cap is to be placed below grade with bolts extending above top of cap to accommodate paving surface.
2. PRODUCTS
 - A. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
 - B. Anchor Bolt: Galvanized steel with galvanized washer and nut, APWA Section 05 05 23.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
3. EXECUTION
 - A. Keyhole to verify pole placement and protect utilities, APWA Section 31 23 16.
 - B. Excavation: Use vacuum extraction or excavate by hand if utilities are in the site vicinity.
 - C. Formwork: Use a circular form for the top 18-inches of foundation. If ground water is encountered, excavate additional depth and install sewer rock. Pump out water and provide a circular form for full length of foundation.
 - D. Before Concrete Placement:
 - 1) Do not weld reinforcing steel, anchor bolts, or galvanized steel conduit.
 - 2) Place all conduits in same trench.
 - 3) Use a template to hold anchor bolts in the proper positions and to the proper heights until concrete is placed and sets.
 - 4) Protect conduits from plugging by sealing conduit ends before concrete placement.
 - E. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Cure concrete for 7 days before erecting pole.

743 SHEET DATE	CONCRETE BASE FOR STREET LIGHT POLE	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS					
		SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115					
DRAWN BY	UNIKON LI	DATE	MADE BY	REVISION	AUTHORIZED BY	NO.	
CHECKED BY							
SCALE							
DATE							
MAY 26TH 2020							

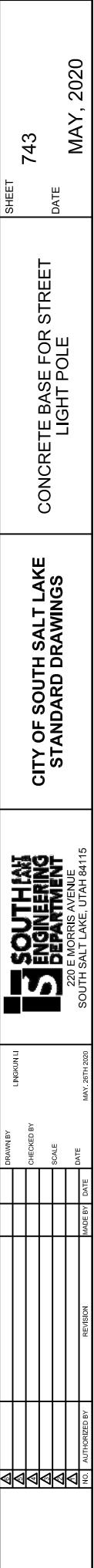


POLE SIZE	DEPTH Ⓐ	DIAMETER Ⓑ	SPACING Ⓒ	VERTICAL Ⓓ	REBAR SIZE Ⓔ
10' - 15'	4'-0"	18"	12"	8	6
16' - 25'	6'-0"	24"	12"	8	6
26' - 50'	9'-0"	30"	12"	8	6

ELEVATION

Concrete base for street light pole

This drawing replaces
APWA Plan 743
May 2020



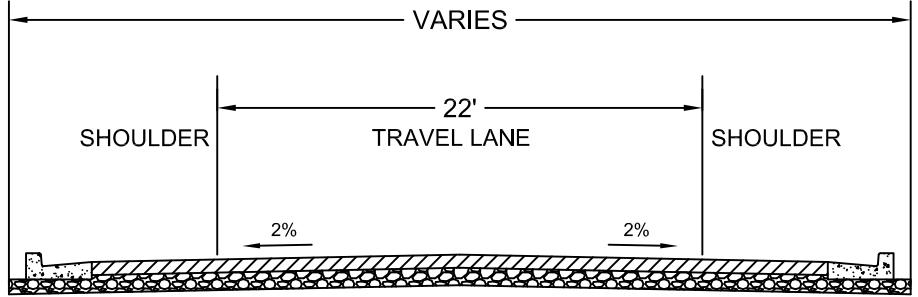
TRAFFIC CALMING

Narrow travel lane

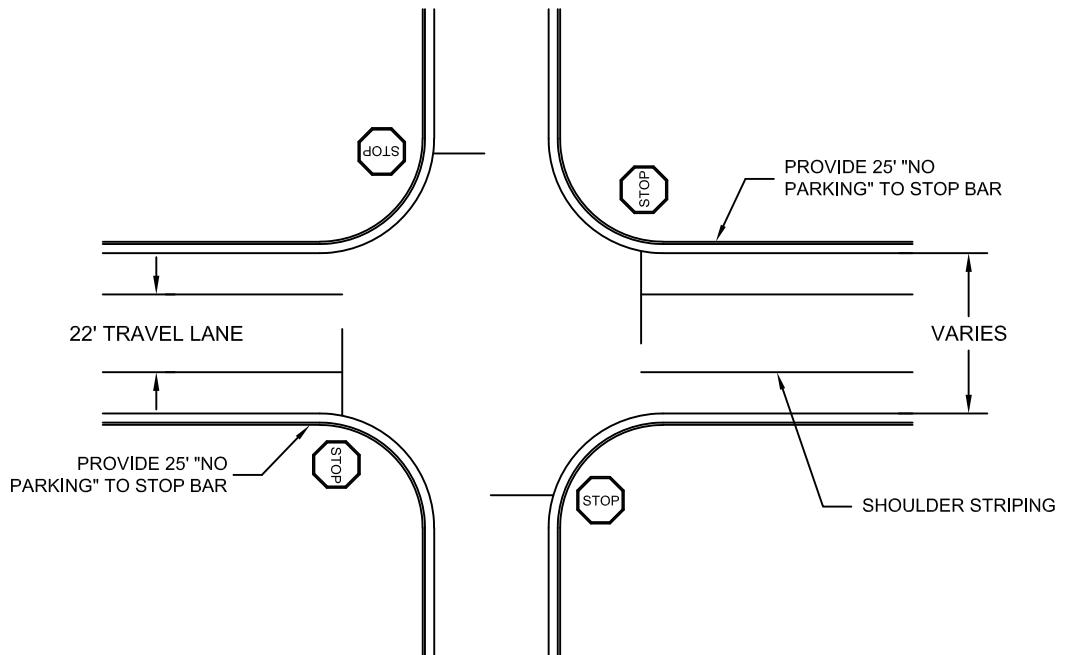
1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
2. PRODUCTS
 - A. Pavement Markings: Paint. APWA Section 32 17 23.
3. EXECUTION
 - A. Pavement Markings: Follow APWA Section 32 17 23.

SSI Plan 771

LOCAL ROAD ONLY



SECTION



INTERSECTION

Narrow travel lane

SHEET
771
DATE
DECEMBER, 2020

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**

**SOUTH SALT LAKE
ENGINEERING
DEPARTMENT**

220 E MORRIS AVENUE

SOUTH SALT LAKE, UTAH 84115

DRAWN BY	LINCOLN LI
CHECKED BY	
SCALE	
DATE	
MADE BY	
REVISION	
NO. AUTHORIZED BY	

DEC. 3RD, 2020

Speed radar feedback sign

1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
2. PRODUCTS
 - A. Speed Limit Sign: Manual on Uniform Traffic Control Devices (MUTCD) R2-1 sign, 25 mph.
 - B. Feedback flashing strip.
3. EXECUTION
 - A. Location: Residential area only. Consult ENGINEER for location and spacing.

SSL Plan 772.1



FEEDBACK FLASHING

LOCAL ROAD

Notes:

1. This sign shall be used on local road only.
2. Standard Utah MUTCD Sign R2-1. Solar powered flashing is preferred.
3. Mounting Height: 7 ft minimum, measured vertically from the bottom of the sign to the near edge of the traveled way, or the top of the curb. Unless approved by City Engineer.

Speed radar feedback sign

SHEET 772.1		DATE DECEMBER, 2020	
SPEED RADAR FEEDBACK SIGN			
 SOUTH SALT LAKE ENGINEERING DEPARTMENT		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	
DRAWN BY LUNGKUN LI CHECKED BY DATE DEC-4TH-2020		SCALE 1:20 DATE DEC-4TH-2020	
REVISED BY	MADE BY	APPROVED BY	DATE
NO.	REVISION	NO.	DATE
220 E MORRIS AVENUE		SOUTH SALT LAKE, UTAH 84115	

Speed radar feedback sign

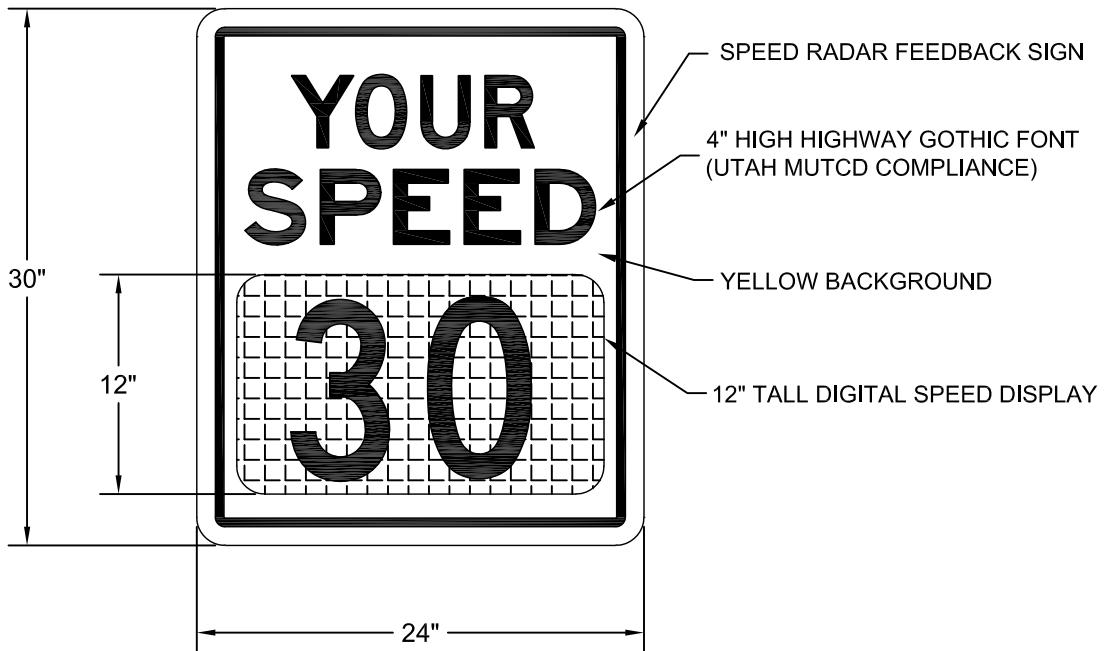
1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
2. PRODUCTS
 - A. Speed Limit Sign: Manual on Uniform Traffic Control Devices (MUTCD) R2-1 sign.
 - B. Speed Feedback Sign: Dimensions match MUTCD R2-1 sign.
3. EXECUTION
 - A. Location: Collector roads only. Consult ENGINEER for location and spacing.

772.2 SHEET DATE DECEMBER, 2020	SPEED RADAR FEEDBACK SIGN	CITY OF SOUTH SALT LAKE STANDARD DRAWINGS	 SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115	DRAWN BY LNGKUN LI CHECKED BY SCALE DATE DEC. 30 2020	MADE BY REVISION AUTHORIZED BY NO.
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SSL Plan 772.2



MUTCD R2-1



COLLECTOR

Notes:

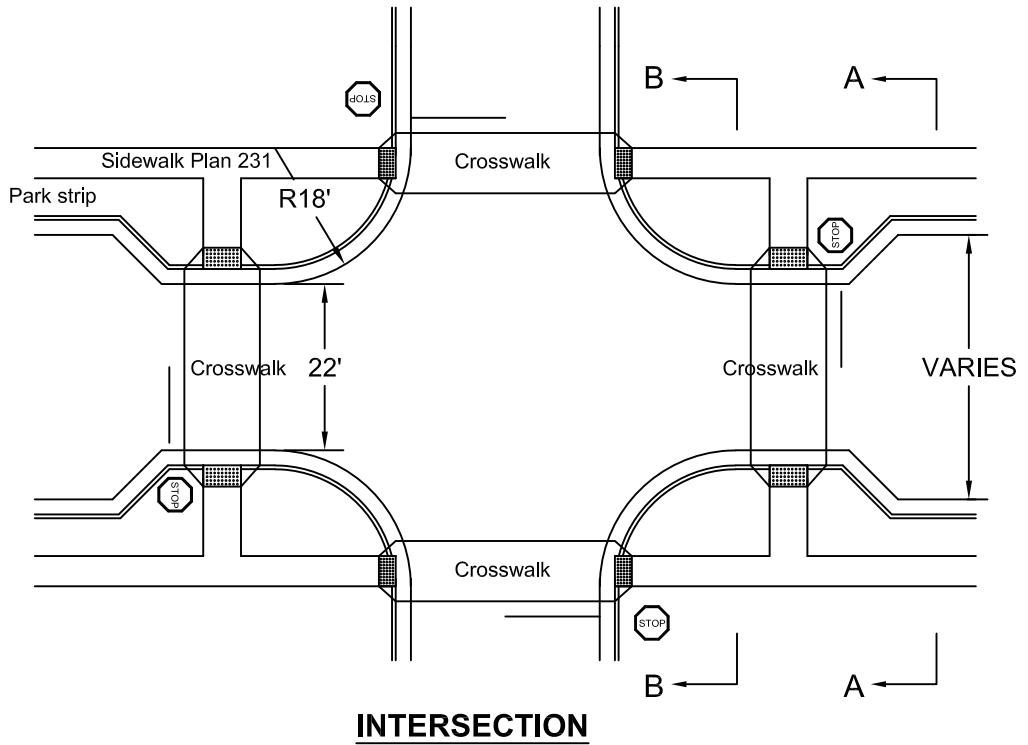
1. This sign shall be used on roads classified as "Collector".
2. Standard static speed limit sign Utah MUTCD Sign R2-1. Solar powered feedback sign is preferred.
3. Speed feedback sign shall be mounted below speed limit sign.
4. Mounting Height: 7 ft minimum, measured vertically from the bottom of the sign to the near edge of the traveled way, or the top of the curb. Unless approved by City Engineer.

Speed radar feedback sign

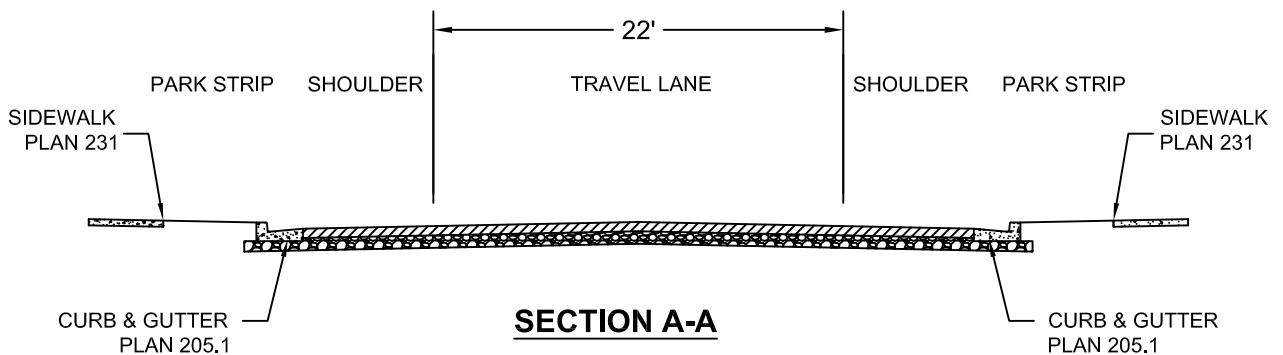
Bulb-out

1. GENERAL
 - A. The drawing is a typical arrangement. Construction varies according to the architectural and engineering design.
 - B. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - C. Additional requirements are specified in APWA Section 32 16 13.
2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

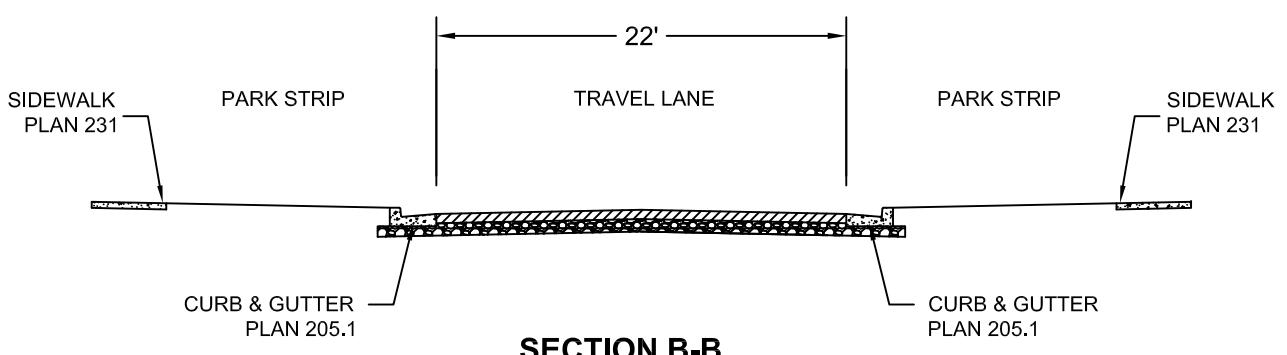
773	SHEET				
DECEMBER, 2020	DATE				
BULB-OUT					
CITY OF SOUTH SALT LAKE	STANDARD DRAWINGS				
SOUTH SALT LAKE ENGINEERING DEPARTMENT 220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115					
DRAWN BY	UNGSUN LI	DATE	MADE BY	REVISION	AUTHORIZED BY NO.
CHECKED BY					
SCALE					
DATE	DEC-30-2020				



INTERSECTION

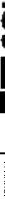


SECTION A-A



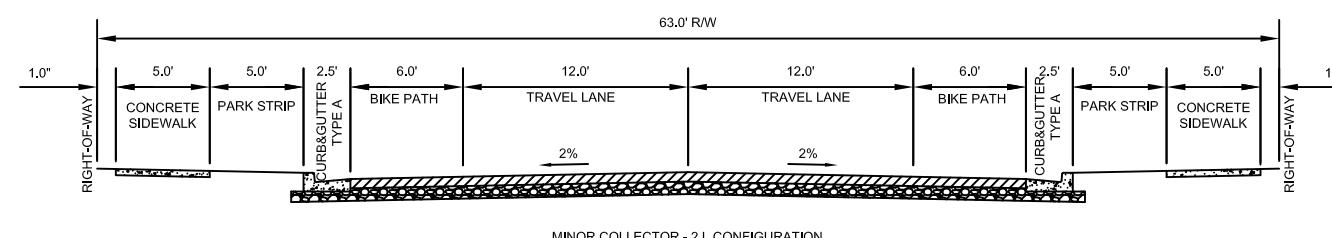
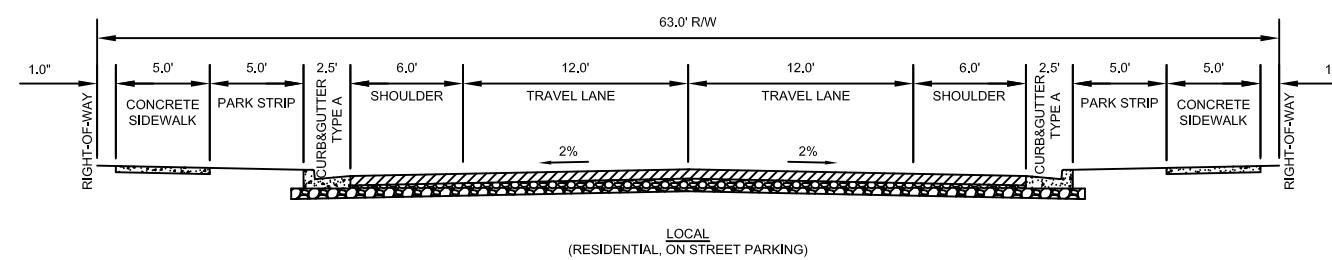
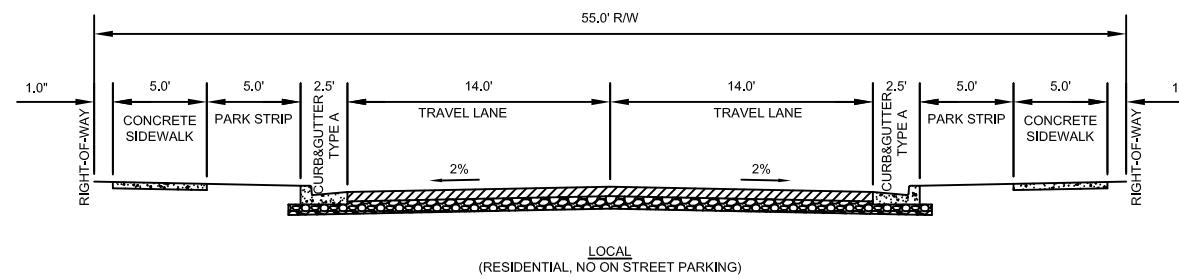
SECTION B-B

Bulb-out

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										UNKNOW	UNKNOW		
SOUTHLAKE ENGINEERING DEPARTMENT								DEC 3RD 2020		CITY OF SOUTH SALT LAKE STANDARD DRAWINGS		DATE	DECEMBER, 2020
										220 E MORRIS AVENUE SOUTH SALT LAKE, UTAH 84115			
NO. 1		REVISION		AUTHORISED BY									

PART 9

STREET



			
			
			
			
			
			
			
NO.	AUTHORIZED BY	REVISION	MADE BY

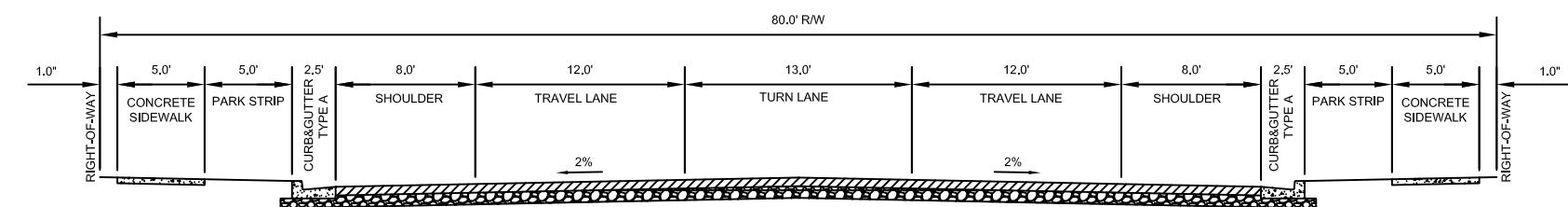
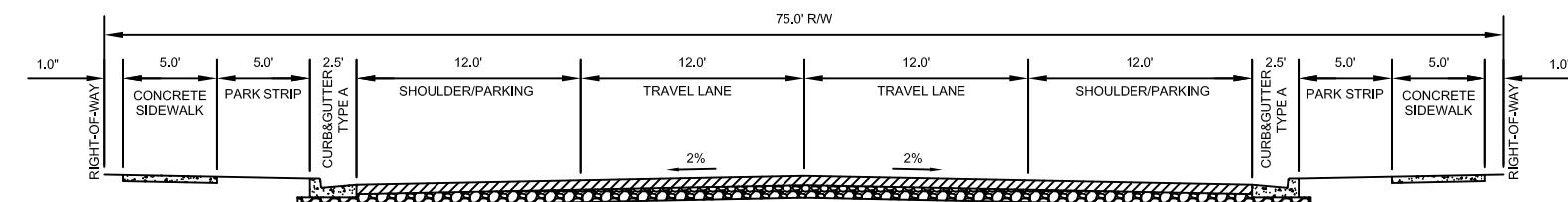
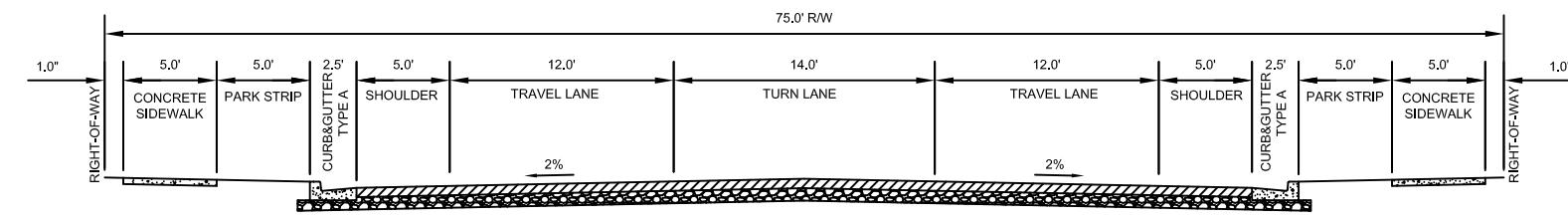
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	SCALE	
	DATE	SEPT. 10TH
DATE		



CITY OF SOUTH SALT LAKE STANDARD DRAWINGS

55 FT AND 63 FT RIGHT-OF-WAY STREET SECTIONS

SHEET
901.1
DATE
SEPTEMBER, 2018



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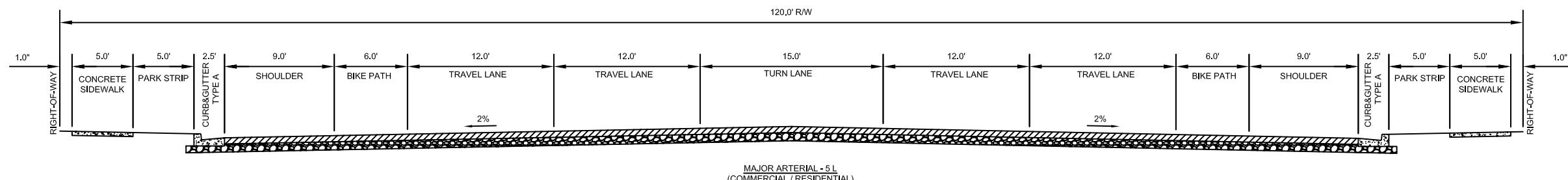
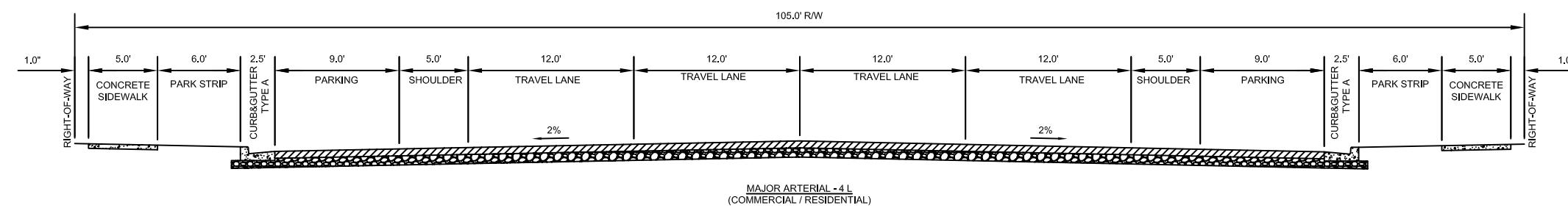
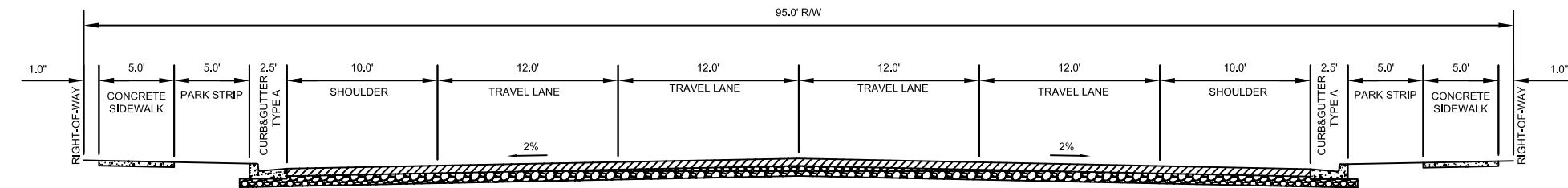
DRAWN BY
LINGKUN LI
CHECKED BY
SCALE
DATE
SEPT. 10TH 2018

**SOUTH SALT LAKE
ENGINEERING
DEPARTMENT**
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

**CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS**

**75 FT AND 80 FT RIGHT-OF-WAY
STREET SECTIONS**

**SHEET
901.2
DATE
SEPTEMBER, 2018**



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NO.	AUTHORIZED BY	REVISION	MADE BY	DATE

DRAWN BY
LINGKUN LI
CHECKED BY
SCALE
DATE
SEPT. 10TH 2018

SOUTH SALT LAKE
ENGINEERING
DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

CITY OF SOUTH SALT LAKE
STANDARD DRAWINGS

95 FT, 105 FT, AND 120 FT
RIGHT-OF-WAY
STREET SECTIONS

SHEET
901.3
DATE
SEPTEMBER, 2018