

standard drawings

FLOOD CONTROL AND ENGINEERING 2022 EDITION

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EXCEPTIONS TO APWA STANDARDS

Salt Lake County has adopted the latest APWA Manual of Standard Plans and Manual of Standard Specifications, with the following exceptions:

APWA Plan No./ Specification Section	Salt Lake County Exception	
215, 216, 221.1, 221.2, 225, 229.1 & 229.2	APWA Pan No's. 221.1 and 221.2 are acceptable for use. APWA Plan No's. 215, 216, 225, 229.1, and 229.2 are not acceptable for use unless otherwise authorized by the Public Works Engineer.	
221.1, 221.2	When adverse slopes, right-of-way limitations, or existing obstructions occur, Public Works Engineering may authorize deviations from the APWA apron/slope geometry.	
251	Bituminous Concrete (asphalt) T-Patch thickness is 6" minimum for both residential and non-residential streets.	
255	Bituminous Concrete (asphalt) T-Patch thickness is 6" minimum for both residential and non-residential streets. 2" mill and overlay are not required over T-Patch unless T-Patch length is greater than 300 feet.	
332	The use of pre-cast "knock-out" boxes in storm drain facilities may be authorized by the Public Works Engineer, upon written request and provided the following conditions are met:	
	a) All other requirements of APWA Plan 332 - Precast Box, are still met.b) Boxes shall have engineered design for AASHTO's HL-93 live load and shall be designed for lateral soil loads appropriate for the burial depth and conditions.	
	c) The thickness of concrete collars where the pipe enters box at the knockout face shall extend 6" to 9" from the exterior face of the box and shall cover the entire side of the structure with no less than 12" concrete all the way around the pipe. Collars shall have a minimum of four (4) #4 dowels tying the collar to the precast box and include a #4 rebar ring or square tie around the pipe.	
	d) Inspection and certification required on all precast boxes.	
315.1, 315.2 & 316	Where APWA inlet plans refer to frame and grate per APWA Plan No. 308, contractor shall use SLCo Standard Plan 201, unless otherwise authorized by the Public Works Engineer.	
381	(Note 2A) - Use granular backfill borrow for common fill.	
382	(Note 2B) - Use granular backfill borrow for common fill. (Note 3A) - Minimum trench width is to be Pipe O.D. + 24" or (Pipe O.D. x 1.25)+12", whichever is greater.	
33 05 00	Public storm drain pipes and culverts shall be 15" dia.or greater. Installation must follow manufacturer's direction. Provide a minimum amount of 1' cover over top of concrete pipes and 2' cover over the top of pipes of other materials unless approved otherwise by manufacturer and engineer. Corrugated metal pipe and vitrified clay pipe are not allowed.	

		SYMBOL	. L
DESCRIPTION	EXIST.	PROP.	Ī
SANITARY SEWER			
CLEANOUT	0	•	
SS MANHOLE	S	©	
SS VALVE	S	Š	
SS METER	Š	S	
SEWER STUB	S	S	Ī
STORM DRAIN			ľ
CATCH BASIN		-	
DRY WELL	(DW)	6W)	
SD CLEAN OUT BOX			
FLARE END	₽	₽	
COMMUNICATION			
TELE. MANHOLE	T	0	
TELE. PEDESTAL	⊕	Ð	
TELE. POLE	-0-	-	
TV PEDESTAL	TV	īV	
CABLE TV	() < H >	(U < F >	
DOMESTIC WATER			
FIRE HYDRANT	A	A	
SPIGOT	9	€	
WATER MANHOLE	W	00	
WATER METER	8	*8"	
WATER VALVE	M	H	
YARD HYDRANT	0	•	
ELECTRIC			
ELEC. MANHOLE	©	©	
ELEC. METER	E	Ē	
ELEC. TRANS.	E	E	
JUNCTION BOX	J	J	
GUY WIRE	۶	۶	
POWER STUB	(E)	(E)	
POWER/UTILITY POLE	-0-	•	
STREET LIGHT	*	*	
STREET LIGHT WITH ARM	↔	₩	
TRAFFIC SIGNAL POLE			

LEGEND		
DESCRIPTION	EXIST.	PROP.
IRRIGATION		
IRRIGATION SHUT-OFF VALVE	IRR	[RR]
IRRIGATION CONTROL VALVE BOX	0	Φ
IRRIGATION GATE		۵
NATURAL GAS		
GAS METER	y	8
GAS VALVE	^G ∑	å
GAS MANHOLE	6	0
SITE		
BOLLARD		
BOULDER	0	•
DRINKING FOUNTAIN	DE	DF
FLAGPOLE	©	(Ē)
GATE		
MAIL BOX	M	M
PEDESTRIAN SIGNAL	- ∳→	- ‡•
SCHOOL SIGN		***
SIGN	-	-
SPOT ELEVATION	×	×
TREE (SHRUB)	0	C
	£ 3	E A
TREE	E de la constitución de la const	
TEST HOLE	(TH)	€
WELL	Ŵ	ŵ
WELL (MONITORING)	M	M
CONCRETE FLATWORK	4 4 4 4	4 4
ASPHALTIC CONCRETE		
SURVEY		
CAP	•	
CTRL PT	•	

	LINE LEGEND		
DESCRIPTION	EXISTING	PROPOSED	
STORM DRAIN	SD	sp	
SANITARY SEWER	22	zs	
WATER	w		
IRRIGATION	IRR	IRR	
NATURAL GAS	G	G	
OVERHEAD POWER	OHE	OHE	
UNDERGROUND POWER	Е	E	
OVERHEAD TELEPHONE	OHT	 онт <i></i>	
UNDERGROUND TELEPHONE	тт	т —	
FIBER OPTIC	FD	FD	
CABLE TELEVISION -	CTV	ст∨ ——	
FENCE		 	
MAJOR CONTOUR -	— 4520 — —	4520	
MINOR CONTOUR			
TOP OF BANK	ТОВ	тов ——	
TOE OF SLOPE	TOE	TOE	
PROPERTY LINE			
PROPERTY LINE (OPTIONAL)	P/L	P/L	
RIGHT OF WAY	R/W	R/W	
TEMPORARY EASEMENT -	T/E	T/E	
PERMANENT EASEMENT -	P/E	P/E	
ROAD CENTERLINE			
ROAD ASPHALT			
ROAD GRAVEL	EG	EG	
CURB AND GUTTER			
ATMS	—— ATMS ——	ATMS	
SAWCUT	SAW	WA2	
GRADING FILL LIMIT	FILL	FILL—	
GRADING CUT LIMIT	CUT	сит —	
DITCH/SWALE FLOWLINE -			



ABBREVIATIONS		
ABBREV.	TERM	
ALUM	ALUMINUM	
APPROX.	APPROXIMATELY	
ASSY	ASSEMBLY	
<u>L</u>	ANGLE	
@	AT (MEASUREMENTS)	
ВС	BEGINNING OF CURVE	
BFS	BEGIN FULL SUPER	
BLDG	BUILDING	
B.M.	BENCH MARK	
	BEGIN NORMAL CROWN	
BNC	BEGIN NORIVIAL CROWN	
BNS	BEGIN NORMAL SHOULDER	
ВОА	BEGINNING OF ALIGNMENT	
BP	BEGINNING OF PROFILE	
BSC	BITUMINOUS SURFACE COURSE	
BSW	BACK OF SIDEWALK	
BVC	BEGIN VERTICAL CURVE	
BVCE	BVC ELEVATION	
BVCS	BVC STATION	
B.W.	BOTH WAYS	
	CHANNEL (STRUCTURAL)	
C	` '	
CJ	CONTROL JOINT	
€ or CL	CENTER LINE	
CLR	CLEARANCE CORRUGATED METAL PIPE	
CO	CLEANOUT	
CONC	CONCRETE	
CONT	CONTINUOUS	
CPLG	COUPLING	
CTR	CENTER	
CU FT	CUBIC FEET	
CU YD	CUBIC YARD	
DEG OR °	DEGREE DETAIL	
	DIAMETER	
DIA OR Ø	DUCTILE IRON PIPE	
D.I.P. DIST		
	DRAWING	
DWG EA	DRAWING EACH	
EC EFS	END OF CURVE	
	END FULL SUPER	
ELB ELEV OR	ELBOW	
EL.	ELEVATION	
ENC	END NORMAL CROWN	
ENS	END NORMAL SHOULDER	
EOA	END OF ALIGNMENT	
EP	END OF ALIGNMENT	
E.W.	EACH WAY	
EXIST	EXISTING	
EVC	END VERTICAL CURVE	
EVCE	EVC ELEVATION	
EVCS	EVC STATION	

ABBREVIATIONS		
ABBREV.	TERM	
FF	FINISH FLOOR	
FG	FINISH GRADE	
FH	FIRE HYDRANT	
FL	FLOW LINE	
FLG	FLANGE	
FT OR '	FEET	
FTG	FOOTING	
GALV	GALVANIZED	
GB	GRADE BREAK	
GV	GATE VALVE	
HORIZ	HORIZONTAL	
HP	HIGH POINT	
ID	INSIDE DIAMETER	
IE	INVERT ELEVATION	
IN. OR "	INCH	
INV.	INVERT	
K	CURVE COEFFICIENT	
L	LEFT LINE DECINING	
LB OR #	LINE BEGINNING POUND	
LF	LINEAL FEET	
LN	LINEAL	
LP	LOW POINT	
MIN	MAXIMUM	
NO. OR#	NUMBER	
O.C.	ON CENTER	
OVERALL HP	OVERALL HIGH POINT	
OVERALL LP	OVERALL LOW POINT	
PC	POINT OF CURVATURE	
PCC	POINT OF COMPOUND CURVATURE	
PE	POLYETHYLENE	
PI	TANGENT-TANGENT INTERSECT	
PL OR R	PLATE OR PROPERTY LINE	
PRC	POINT OF REVERSE CURVATURE	
PT	END OF CURVE	
PVC	POLYVINYL-CHLORIDE	
PVI	POINT OF VERTICAL INTERSECTION	
R	RADIUS OR RIGHT	
R&R	REMOVE & REPLACE	
RC	REVERSE CROWN	
RCP	REINFORCED CONCRETE PIPE	
REM	REMOVE	
REQ'D	REQUIRED	
REV	REVISION	
R/W OR ROW	RIGHT-OF-WAY	
S	SLOPE	

ABBREVIATIONS		
ABBREV.	TERM	
SBO	SHOULDER BREAKOVER	
SPEC	SPECIFICATION	
STA	STATION	
STD	STANDARD	
STL	STEEL	
ST STL	STAINLESS STEEL	
TBC	TOP BACK OF CURB	
TFC	TOP FACE OF CONCRETE	
ТОВ	TOP OF BANK	
TOC	TOP OF CONCRETE	
TOF	TOP OF FOOTING	
TOP	TOP OF PIPE	
TOW	TOP OF WALL	
TYP	TYPICAL	
U.N.O.	UNLESS NOTED OTHERWISE	
vcc	VERTICAL COMPOUND CURVE	
VCCE	VCC ELEVATION	
vccs	VCC STATION	
VRC	VERTICAL REVERSE CURVE	
VRCE	VRC ELEVATION	
VRCS	VRC STATION	
W/	WITH	
W/O	WITHOUT	
W/REQ'D	WHERE REQUIRED	



Materials, construction, and workmanship shall be in accordance with the current edition of "APWA Manual of Standard Specifications" addendums, and modifications thereto; and as directed by the Salt Lake County Public Works Engineer. Reference to specific sections of APWA does not limit requirements to that section.

SUBGRADE: See APWA Section 32 05 10 (Backfilling Roadways) for preparation and proof rolling of roadway, curb and gutter, and sidewalk.

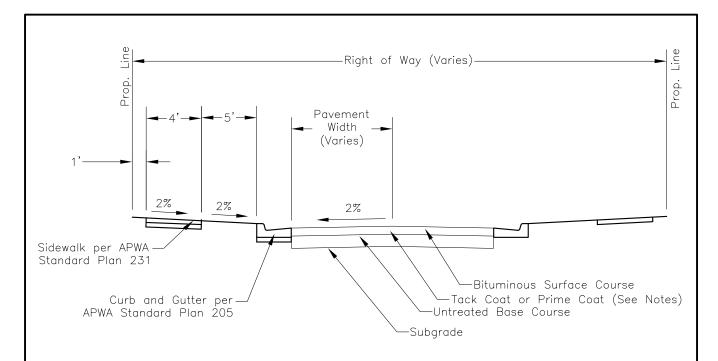
UNTREATED BASE COURSE: Shall be Grade 1 as per APWA Section 32 11 23 (Aggregate Base Course). Place fill in no greater than 6 inch lifts after compaction as per APWA Section 32 05 10 (Backfilling Roadways). Compact to no less than 95% relative density based on the Modified Proctor Density as per APWA Section 31 23 26 (Compaction).

PRIME COAT: Prime coat, as directed by the engineer, on untreated base course before placing asphalt. See APWA Section 32 12 13.19 (Prime Coat).

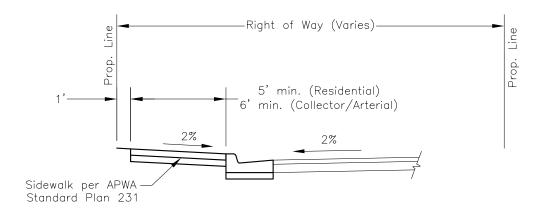
TACK COAT: Grade SS-1, CSS-1, or CSS-1h emulsified asphalt shall be applied to existing asphalt concrete or portland cement concrete surfaces prior to placing asphalt concrete pavement as per APWA Section 32 12 13.13 (Tack Coat).

ASPHALT CONCRETE: Unless otherwise approved in writing by the Salt Lake County Public Works Engineer or their designated representative, all roads shall be considered Road Class III and the bituminous concrete mix designator used shall correspond to the table on Sheet 2. Minimum allowed roadway section - 3 inches asphalt concrete on 8 inches untreated base course. Thicker sections required for collectors, minor arterials, and roadways with heavy truck Construct road mix bituminous surface course only when air temperature in the shade and road bed temperature are greater than 50 degrees.

ROADWAY SECTION



STANDARD CONFIGURATION



CONTIGUOUS SIDEWALK

BITUMINOUS CONCRETE MIX DESIGNATOR BY ROADWAY CLASSIFICATION		
ROADWAY CLASSIFICATIONS*	BITUMINOUS CONCRETE MIX DESIGN**	
Local/Private — Collector (60')	PG58-28, DM-1/2, 50 Blow	
Collector (80') — Arterial (106')	PG64-34, DM-1/2, 50 Blow	
Canyon Roads Cat. 2—6	PG58-28, DM-1/2, 50 Blow	
Canyon Roads Cat. 1	PG64-34, DM-1/2, 50 Blow	

- * See Section 14.12.100 of the municipal code for details.
- ** See APWA 32 12 05.



STANDARD PLAN 110

SHEET 2 OF 2

SLCo Standard Drawings are intended to supplement all ADA and APWA guidelines and requirements. These drawings are for clarification, but do not alter, reduce or override any Federal ADA requirements.

Materials, construction, and workmanship shall be in accordance with the current edition of "APWA Manual of Standard Specifications" addendums, and modifications thereto; and as directed by the Public Works Engineer. Reference to specific sections of APWA does not limit requirements to that section.

SUBGRADE: See APWA Section 32 05 10 (Backfilling Roadways) for preparation and proof rolling of roadway, curb and gutter, and sidewalk.

UNTREATED BASE COURSE: Shall be Grade 1 as per APWA Section 32 11 23 (Crushed Aggregate Base). Place fill in no greater than 6 inch lifts as per APWA Section 32 05 10 (Backfilling Roadways). Compact to no less than 95% relative density based on the Modified Proctor Density as required in APWA Section 31 23 26 (Compaction).

CONCRETE: Concrete shall be Class 4000 as per APWA 03 30 04 (Concrete).

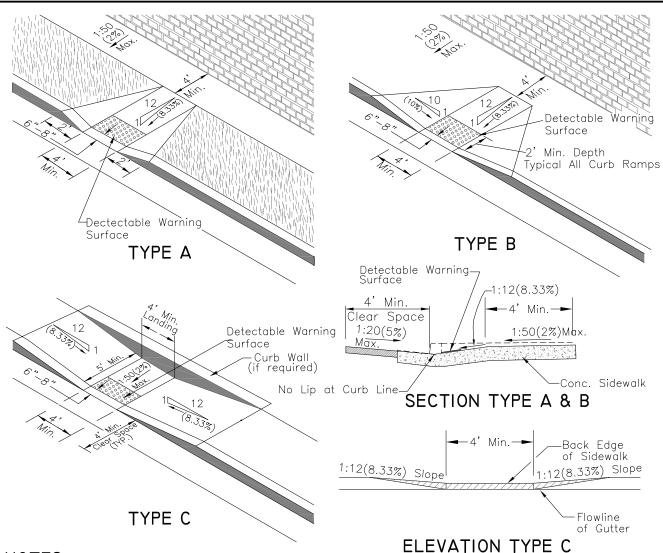
EXPANSION JOINT: Expansion joint shall be 1/2" thick preformed expansion joint filler F1-bituminous mastic as per APWA Section 32 13 73 (Concrete Pavina Joint Sealants) at each interface as shown.

DETECTABLE WARNINGS: Locate raised truncated domes so that the edge nearest the curb line is within 6 to 8 inches from the curb line excluding Curb Ramp Types H, and I where X < 5 feet (see sheet 6 of 6). Provide 2-foot of truncated dome pattern at the lower end of all curb ramps extending the full width of the curb ramp. See typical dimensions on Type B Curb Ramp. Detectable warnings shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light. Glued or surface applied domes are not acceptable for new construction. Stamped domes are not allowed under any conditions. Truncated dome materials shall be selected from the County approved materials list.

RAMPS: Length of any ramp not to exceed 15 feet. Ramp shown are examples only, site specific ramps may require modification and additional features to comply with current Federal ADA Guidelines.

CURB RAMPS

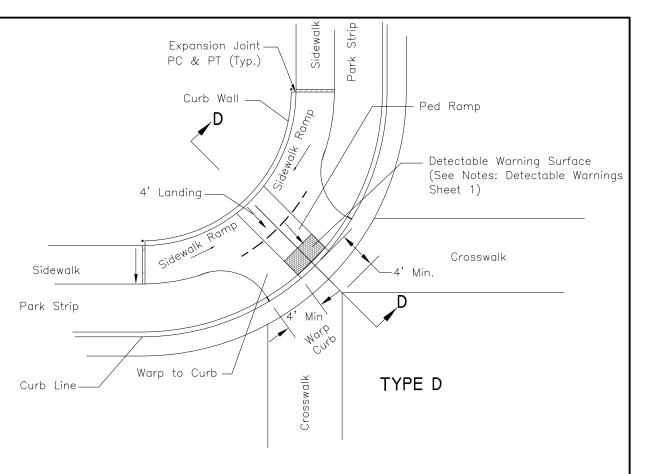


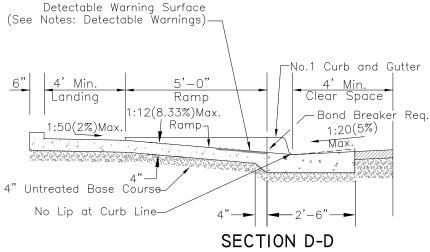


- 1. TYPE A
 - The entire ramp slope is achieved outside the sidewalk section. A concrete warped curb section shall begin 2' from edge of detectable warning surface.
- 2 TYPE F
 - Provide at least 4' of sidewalk width beyond the ramp.
- 3. TYPE C
 - Use this type of ramp when there is insufficient width to accomodate TYPE B curb ramp.
- 4. No pull box, utility vault, utility pole, manhole or similar appurtenance shall be located within the sidewalk ramp area.
- 5. It is desirable to locate all drain inlets out of sidewalk ramp area. Use of drain inlet within ramp area requires special design of inlets.
- 6. See Detail 'A' (sheet 4 of 6) for raised truncated dome detail on detectable warning surface.
- 7. Maximum cross slope of adjoining gutters and road surface immediately adjacent to the curb ramp, or accessible route, shall not exceed 1:20(5%).
- 8. Running and cross slope at midblock crossings shall be permitted to be warped to meet street or highway grade.



STANDARD PLAN
1.35





Landing: Cross Slope: 1:50(2%) Max. Towards The Street.

Ped Ramp Slope: 1:12(8.3%) Max.

Sidewalk Ramp: 1" Rise Reauired Length May Vary

Slope May Vary, But 1:12(8.3%) Max.

Sidewalk: Cross Slope 1:50(2%) Max. Towards

The Street.

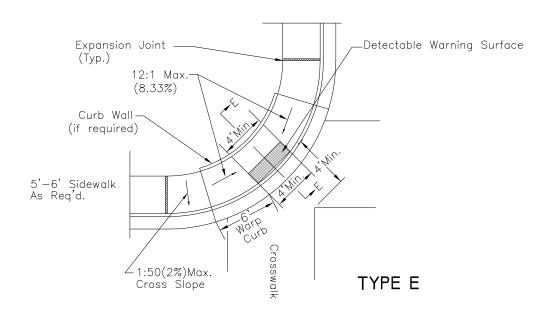
Curb Wall: 6" Wide As Needed.

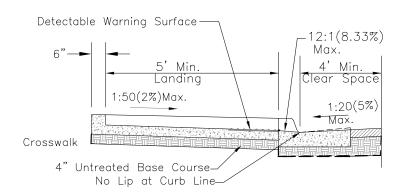


CURB RAMPS

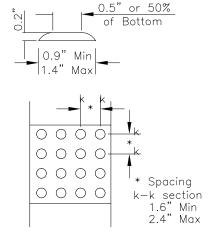
STANDARD PLAN 135

SHEET 3 OF 6





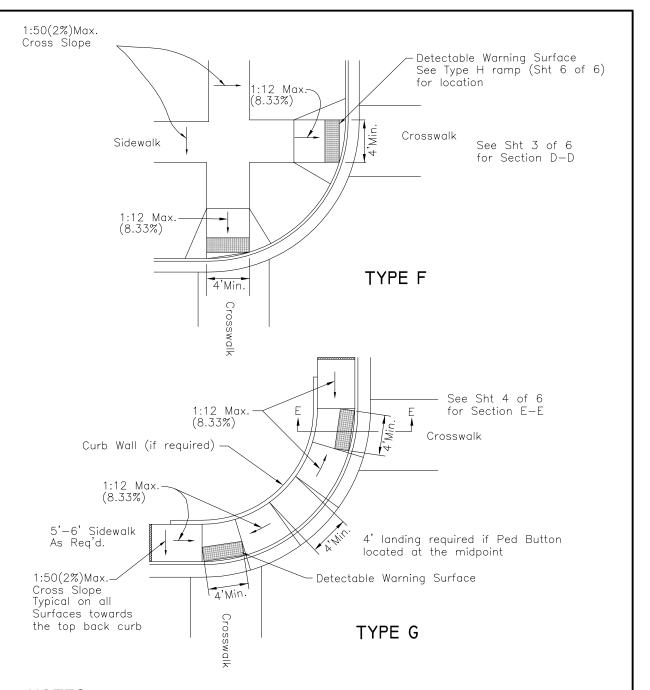
SECTION E-E



Raised Truncated Domes of Detectable Warning Surface

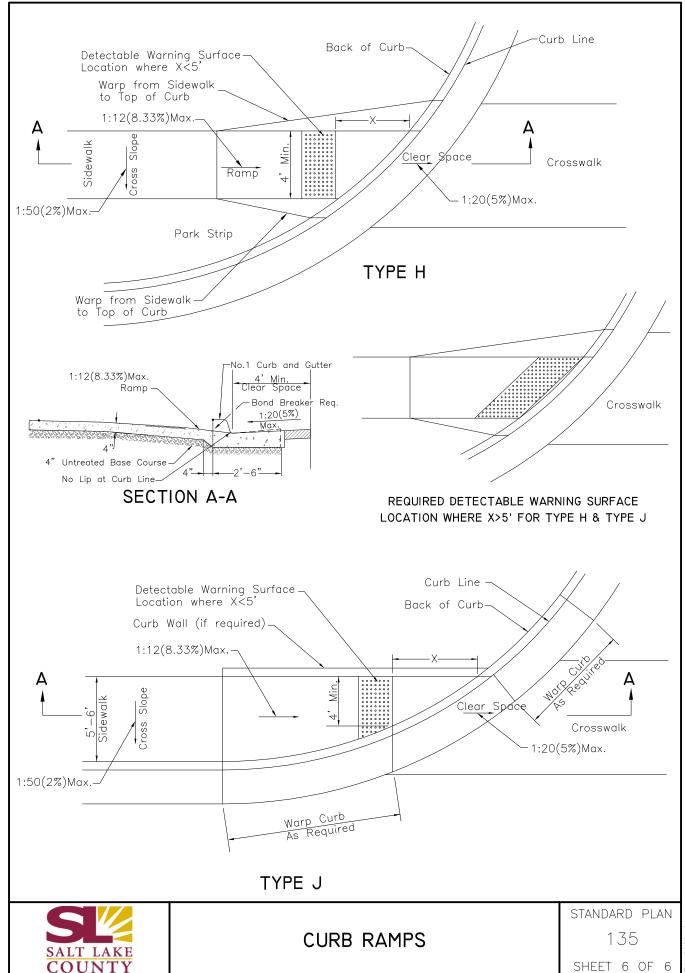
DETAIL 'A'





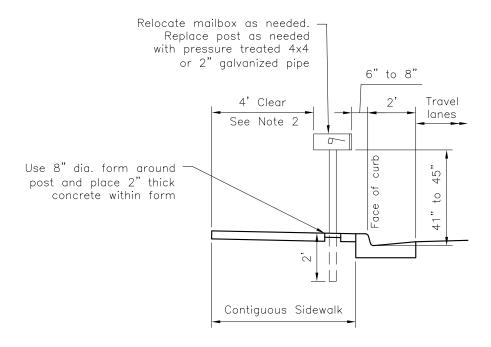
- 1. Provide detectable warning surface for full width of ramp, min. 4' width.
- 2. Detectable warning surface is required wherever curb is absent.
- 3. When detectable warning surface is cut, grind remaining portion of any cut domes. Seal all cut panel edges to prevent water damage.
- 4. Locate curb cut within crosswalk.





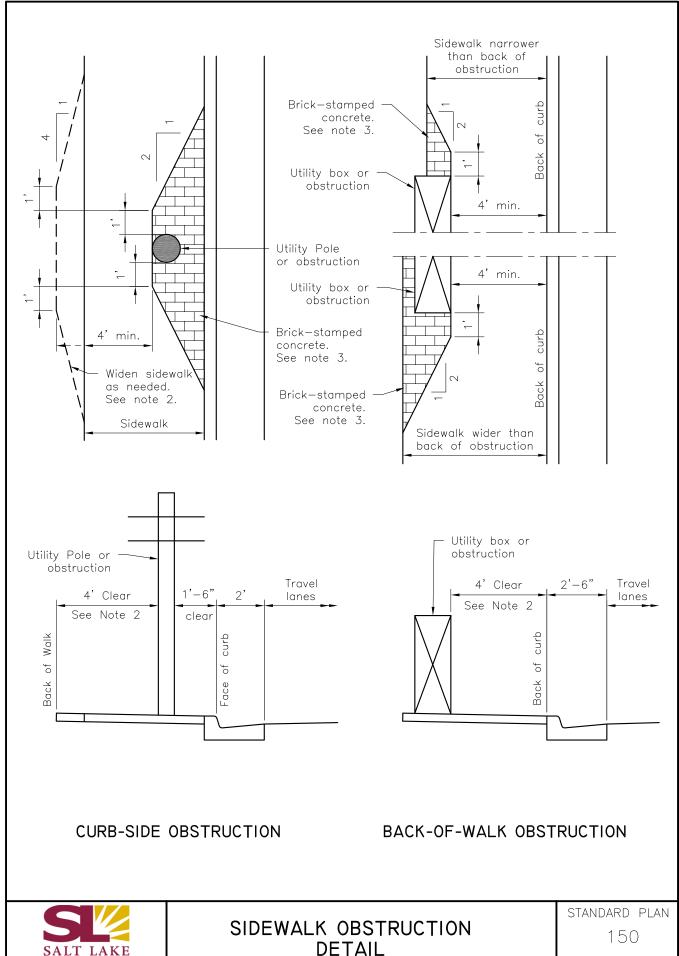
EV. 2022-0

- 1. This detail has been developed to provide a location for utilities when sidewalk is placed contiguous with curb and gutter.
- 2. Minimum sidewalk clear width adjacent to obstruction shall be 4' unless otherwise approved by the Public Works Engineer. Verify with the engineer that the appropriate right—of—way width exists where sidewalk must be widened around an obstruction.
- 3. Brick—stamped and colored concrete areas shall match the thickness of concrete and base course of the adjacent sidewalk.



MAILBOX RELOCATION





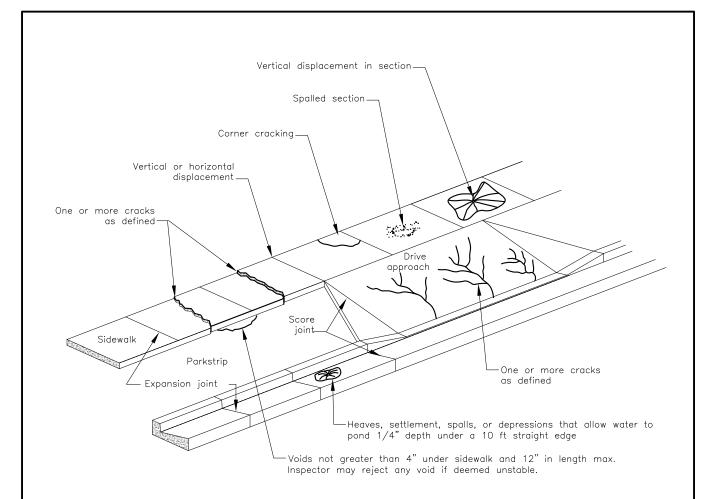
COUNTY

FV 2022-0

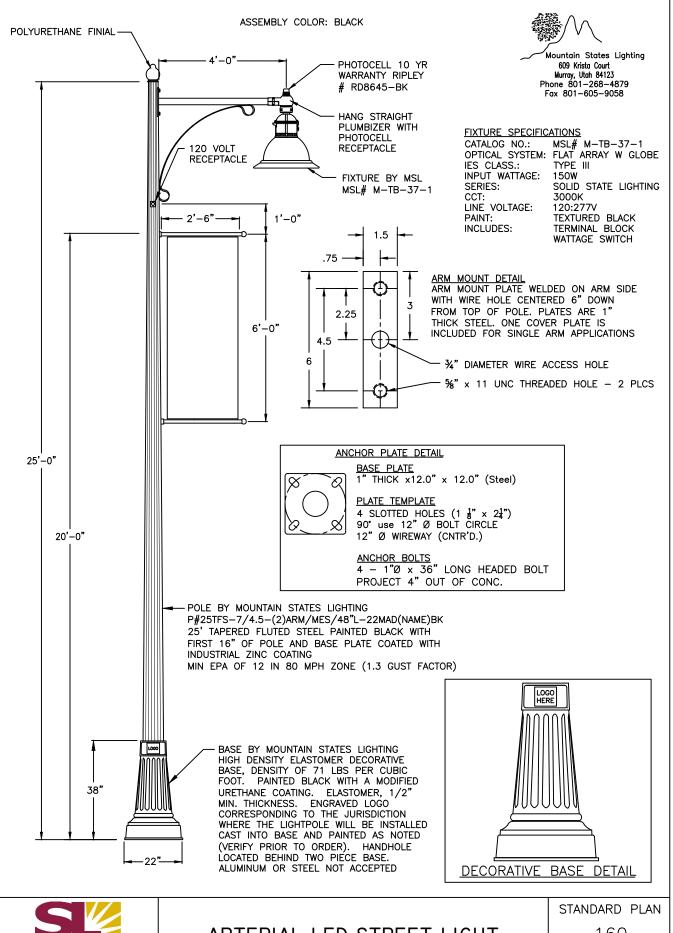
SHEET 2 OF 2

- 1. Concrete is considered defective if any component has one or more of the conditions shown on sheet 2. County may require section replacement for any latent defects not described.
- 2. Defective concrete resulting from an individual crack is defined as having at least one of the following:
 - -horizontal separation wide enough to insert a dime
 - -vertical displacement resulting from crack
 - -spalling, spidering, or chipping of crack
- 3. Defective concrete resulting from multiple cracks is defined as having at least one of the following: -one section with multiple cracks where both ends of crack link with slab edge, joint, or another crack.
 - -adjacent sections with one or more cracks where both ends of crack link with slab edge, joint, or another crack.
- 4. Defective concrete resulting from vertical displacement is defined as one of the following:
 - -at time of performance bond release: any vertical displacement at construction joint or expansion joint. -concrete not under warranty: vertical displacement at construction joint or expansion joint greater than $\frac{1}{4}$ ".
- 5. Defective concrete resulting from spalls is defined as one of the following:
 - -at time of performance bond release: any spalling.
 - -concrete not under warranty: spalling covering more than 20% of a section.

DEFECTIVE CONCRETE







2

SALT LAKE COUNTY

- USE THE LOGO CORRESPONDING WITH THE JURISDICTION WHERE THE LIGHT WILL BE INSTALLED. EXAMPLE LOGOS SHOWN BELOW.









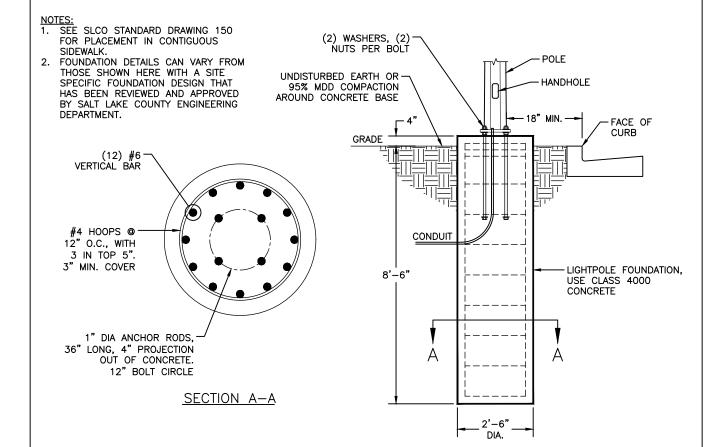








COLOR: SILVER







ARTERIAL LED STREET LIGHT

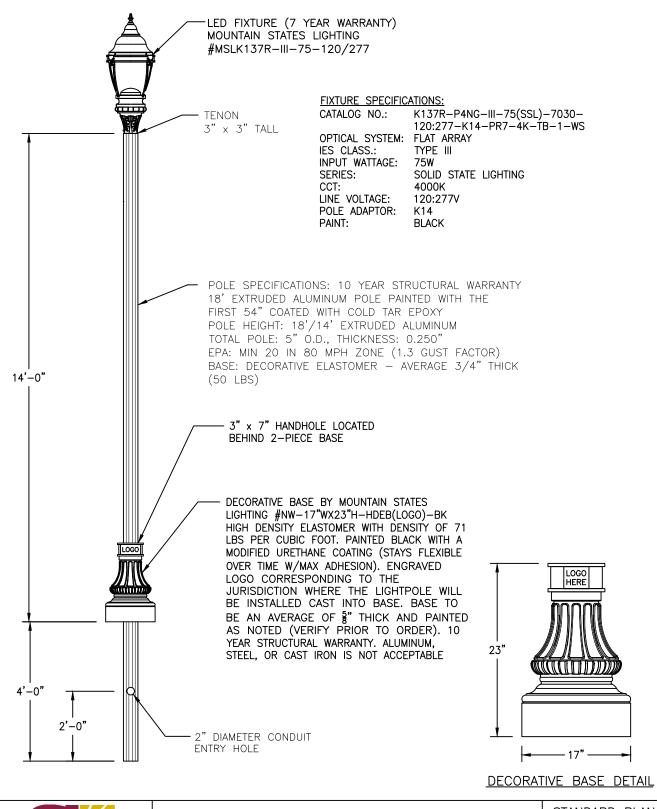
STANDARD PLAN

160

SHEET 2 OF 2

ASSEMBLY COLOR: BLACK







COLLECTOR LED STREET LIGHT

STANDARD PLAN

161

SHEET 1 OF 2

- USE THE LOGO CORRESPONDING WITH THE JURISDICTION WHERE THE LIGHT WILL BE INSTALLED. EXAMPLE LOGOS SHOWN BELOW.







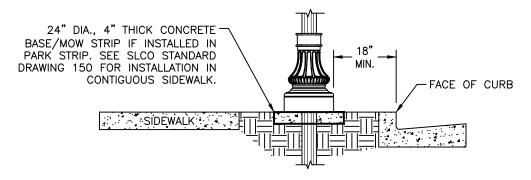








COLOR: SILVER

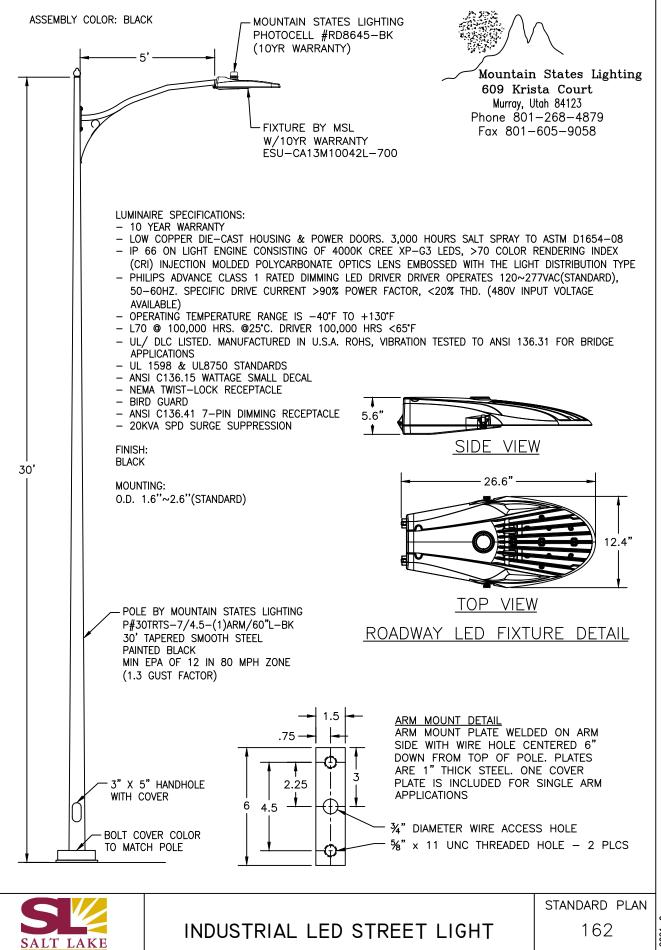


INSTALLATION DETAILS



STANDARD PLAN

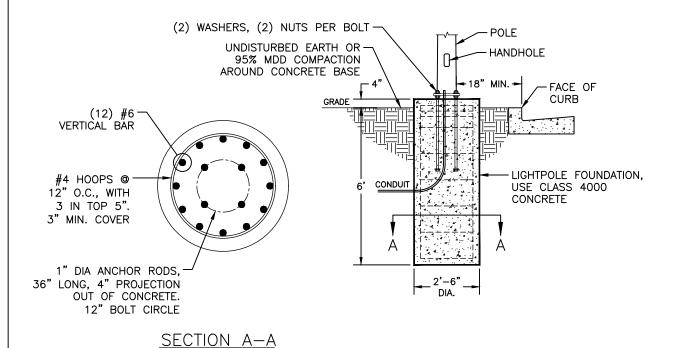
161



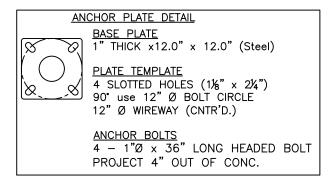
COUNTY

EV. 2021-0

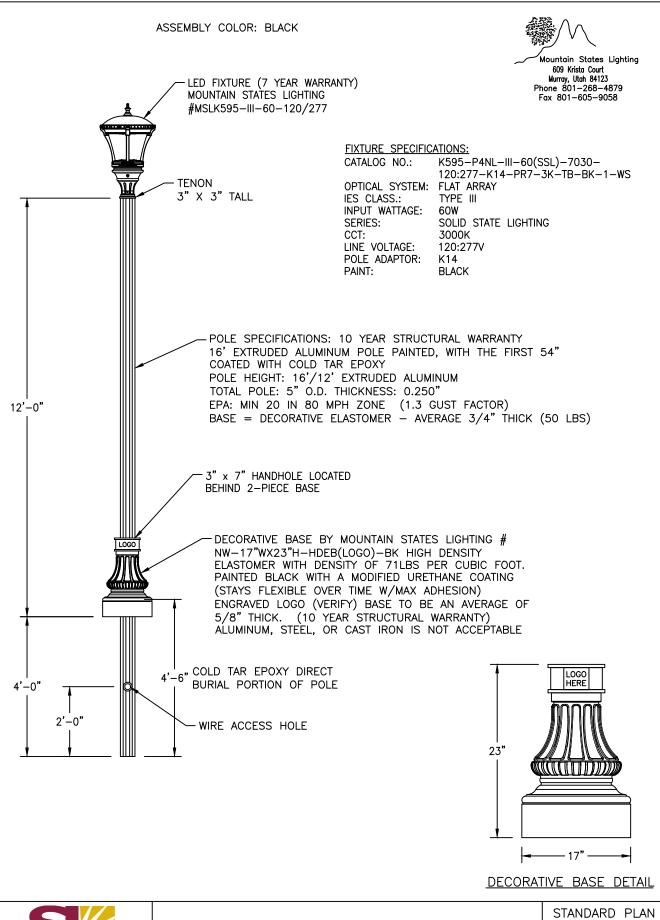
- 1. SEE SLCO STANDARD DRAWING 150 FOR PLACEMENT IN CONTIGUOUS SIDEWALK.
- 2. FOUNDATION DETAILS CAN VARY FROM THOSE SHOWN HERE WITH A SITE SPECIFIC FOUNDATION DESIGN THAT HAS BEEN REVIEWED AND APPROVED BY SALT LAKE COUNTY ENGINEERING DEPARTMENT.



30' INDUSTRIAL POLE FOUNDATION DETAILS









RESIDENTIAL LED STREET LIGHT

163

SHEET 1 OF 2

- USE THE LOGO CORRESPONDING WITH THE JURISDICTION WHERE THE LIGHT WILL BE INSTALLED. EXAMPLE LOGOS SHOWN BELOW.







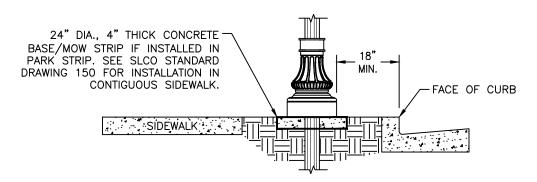








COLOR: SILVER



INSTALLATION DETAILS



STANDARD PLAN

163

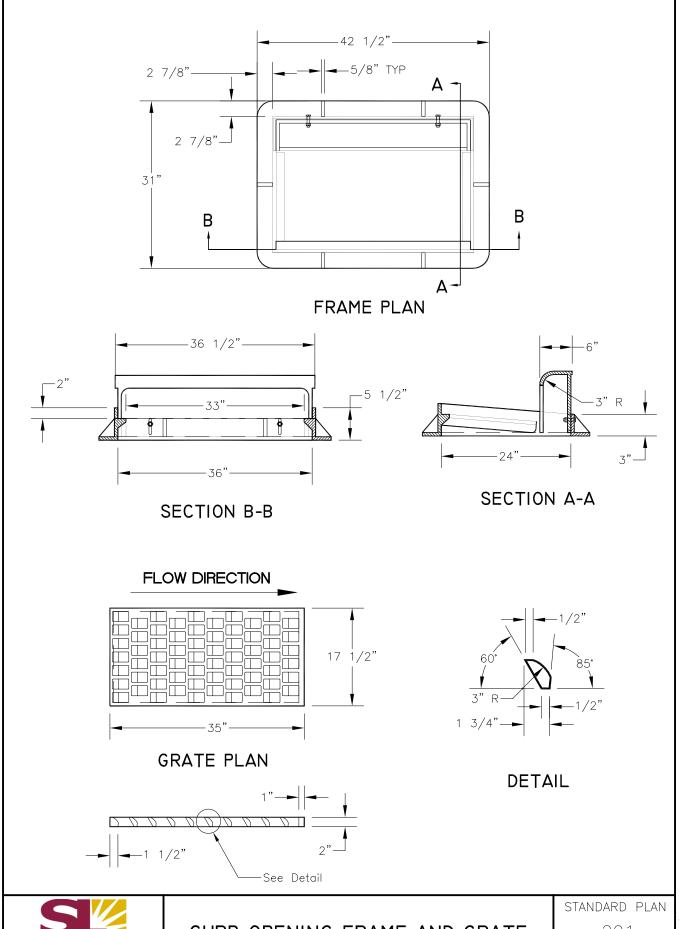
Materials, construction, and workmanship shall be in accordance with the current edition of "APWA Manual of Standard Specifications" addendums, and modifications thereto; and as directed by the Public Works Engineer.

Cast Iron to conform to ASTM A-48, Class 35B H-20 wheel loading.

CURB OPENING FRAME AND GRATE

Use D&L Supply Co. I-3517 or approved equivalent.

All connecting hardware to be stainless steel.



Materials, construction, and workmanship shall be in accordance with the current edition of "APWA Manual of Standard Specifications" addendums, and modifications thereto; and as directed by the Public Works Engineer.

Ladder Rungs: Provide rungs in boxes over 4 feet deep, spaced 12" O.C. When measured from the floor of the box, place bottom rung 16" maximum above box floor. Place top rung within 3 feet of finish grade.

Follow all current OSHA requirements.

Align rungs with lid opening.

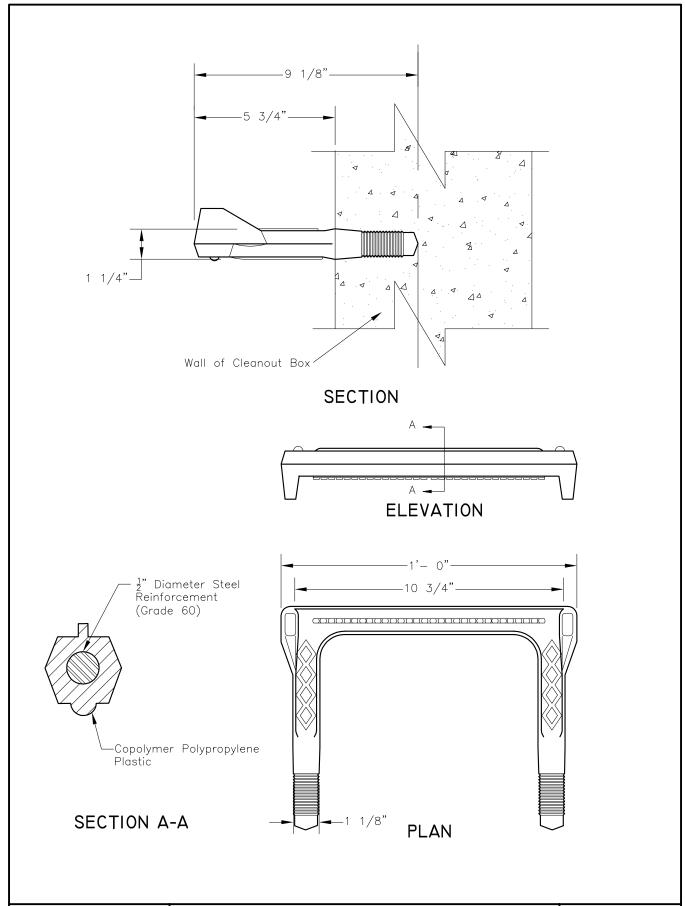
Rungs not required in boxes with concentric access.

Ladder rungs shall be copolymer polypropylene plastic coating over a ½ inch steel bar.

Steel bar shall conform to ASTM 615 Grade 60.

Use M.A. Industries PS1-PF 10" Manhole Single Face Step or approved product with similar materials and ratings with County approval.

LADDER RUNG





GENERAL DETENTION BASIN REQUIREMENTS:

- ① Side slopes shall be a maximum of 3:1
- Sides and bottom of basin shall be rock lined. In special circumstances such as when the basin contains a park or playing field, the basin may be lined with grass, with approval of the Public Works Engineer. For rock lining, use 2" rock with a minimum depth of 5" over separation fabric. If grass lined, the area must be adequately irrigated with a permanent pressurized irrigation system.
- 3 1 foot of freeboard above the 10-year 24-hour storm event level or capacity for the 100-year 24-hour storm
- (4) Concrete low flow pipe or channel preferred

SECTION A. INLET AND OUTLET STRUCTURE REQUIREMENTS:

- (5) Outflow must be restricted per the County requirements
- 6 Must include a concrete flared end section and locking grate, unless underground low—flow conveyance is utilized
- Pre-treatment required prior to outflow to County
 Approved facility, outlet structure must conform to SLCo
 Standard Detail 301 or approved outlet structure.

SECTION B. REQUIREMENTS FOR ACCESSES TO ALL INLET/OUTLET STRUCTURES:

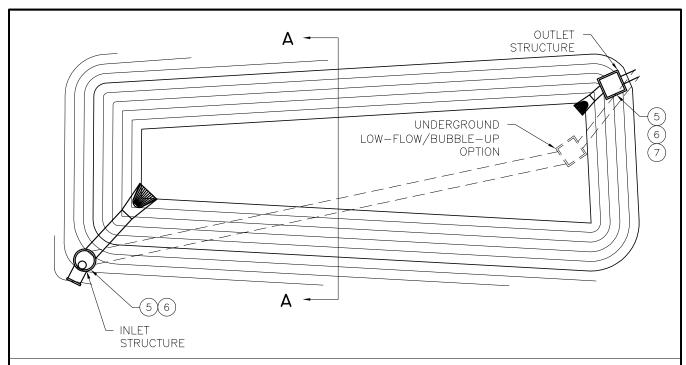
- Must fall within the area of the arc (shown in the Typical County Accessible Road/Pad Detail), which is representative of the maintenance vehicles' reach.
- No increase in elevation greater than 5' from surface of County accessible road or pad
- No decrease in elevation greater than 35' from surface of County accessible road or pad
- (I) Must be a minimum of 45 feet in length from traveled way of connecting roadway if a detention pond specific access road or pad is utilized

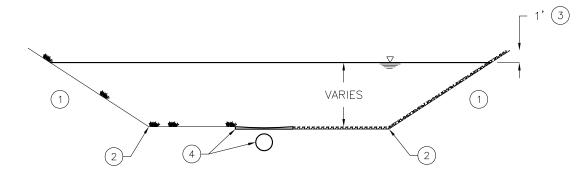
SECTION C. COUNTY ACCESSIBLE ROAD/PAD REQUIREMENTS:

- (2) Must be easily accessible by County maintenance vehicles
- Must not exceed a maximum longitudinal slope of 12%
- (4) Must be at least 10' in width
- (5) No cross-slope in excess of 2%
- (6) Must be a minimum of 6" thick concrete
- Must have measures in place restricting public access (ex. bollards). If bollards are used, must be of stainless steel material.
- (8) Must comply with all other local, county, state, and federal requirements

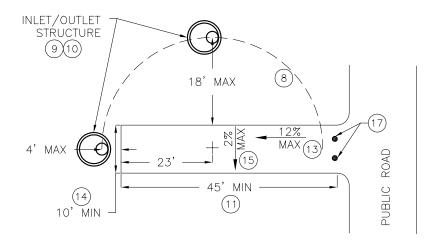


STANDARD PLAN





SECTION A-A - TYPICAL BASIN SECTION



TYPICAL COUNTY ACCESSIBLE ROAD/PAD DETAIL



DETENTION BASIN GUIDELINES

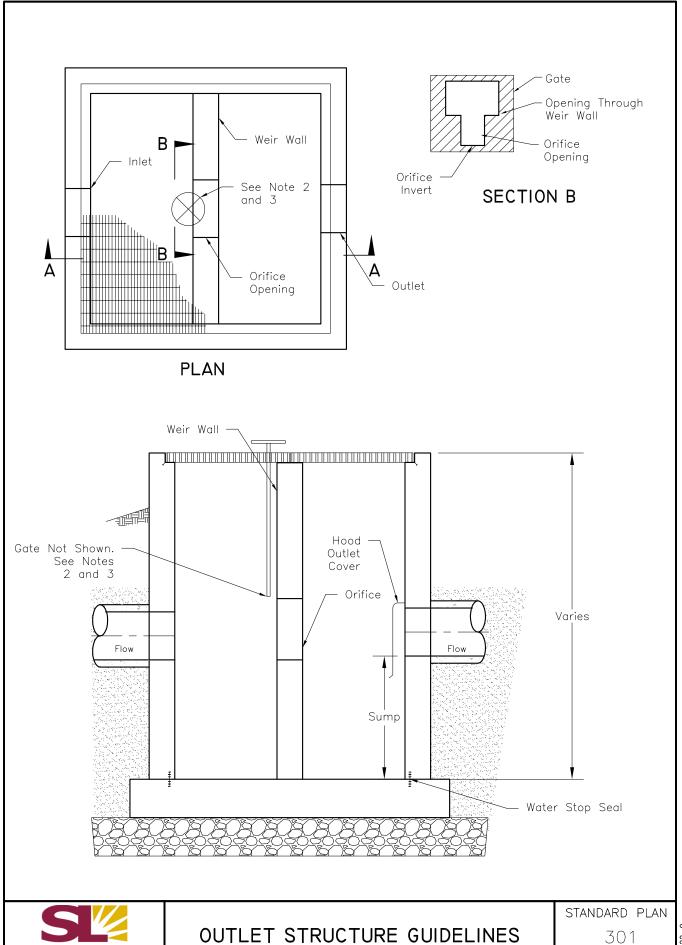
STANDARD PLAN 300

SHEET 2 OF 2

Materials, construction, and workmanship shall be in accordance with the current edition of "APWA Manual of Standard Specifications" addendums, and modifications thereto; and as directed by the Salt Lake County Public Works Engineer. Reference to specific sections of APWA does not limit requirements to that section.

- 1. Developer shall install lock and chain on handwheel. Lock to be supplied by SLCO Operations Department.
- 2. Provide gate with stop nut on stem to hold gate at 10" above invert of orifice or higher.
- 3. Golden Harvest slide gate with non-rising stem and handwheel, or approved equal. Cut grate as required for extension of frame.
- 4. The drawing on Sheet 2 is intended to be general in nature, but shows the overall conceptual requirements for the outlet structure, including box with weir wall, orifice, gate, hood, and grated top. The specific size of the components shall be designed for the specific application.

OUTLET STUCTURE GUIDELINES



COUNTY

SHEET 2 OF 2

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flood control and engineering