

APPENDIX A

STANDARD DRAWINGS FOR
ROAD & BRIDGE

TABLE OF CONTENTS

Stand . Dwg. No.	Description
	General
RD – 05	Abbreviation and Symbols (Roadways)
RD – 10	Abbreviation and Symbols (Storm Drain, Sewer, Water)
	General Road Information
RD – 20	Arterial Road Cross Section (Existing as of November 2006)
RD – 30	Collector Street Cross Section (Typical)
RD – 35	Residential Collector Cross Section (60 – Ft ROW, 2 Lanes)
RD – 40	Local Street Cross Section (50 – Ft ROW, 2 Lanes)
RD – 65	Private Street Cross Section (No Parking)
RD – 71	Temporary Emergency Vehicle Turn-around
RD – 75	Road Intersection “L” Shape
	Design
RD – 85	Stopping Sight Distance Requirements at Intersections & Driveways
RD – 86	Asphalt Speed Table Detail
RD – 87	Concrete Neighborhood Speed Table
	Concrete Paving
	Drainage
RD – 100	Standard Curb & Gutter
RD – 105	Standard Curb – Median
RD – 106	Concrete Curb Wall for Pavement Edge
RD – 110	Standard Cross Gutter (By Approval Only)
RD – 110A	Standard Waterway Transition
RD – 115	Standard Waterway
	Driveways
RD – 120	Standard Drive Approach
RD – 121	Typical Driveway Access to Private Gated Community with External Mailbox Area
RD – 122	Typical Driveway Access to Private Gated Community without External Mailbox Area
RD – 125	Saw – Cut Approach

APPENDIX A

RD – 130	Open Drive Approach
	Fencing
RD – 135	Chain Link Fence
	Park Strips
RD – 140	Standard Concrete Park Strip
	Miscellaneous
RD – 155	Location of Fire Hydrant within Retaining Wall
RD – 165	Safety Post
	Road Repair
RD – 170	Asphalt Pavement Tie-In
RD – 175	Trench Excavation Restoration
RD – 180	Defective Concrete
RD – 185	Remove and Replace Curb & Gutter without Pavement Tie-In
RD – 195	Standard Trench Plating Detail
	Sidewalk
RD – 200	Standard Sidewalk
	Street Signs
RD – 250	Street Sign
	Survey Monumentation
RD – 260	Survey Monumentation – Centerline Survey Monument
RD – 265	Survey Monumentation – Corner & Boundary Markers
RD – 270	New Installation – Subdivision – Duct Bank Standard

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SYMBOLS	DEFINITIONS
	SECTION LINE
	CENTER LINE
	CONSTRUCTION CENTER LINE
	PROPERTY OR R/W LINE
	EASEMENT LINE
	MONUMENT LINE
	FENCE
	CONTOUR LINE (FG)
	CONTOUR ELEVATION (FG)
	BANK SLOPES
	STORM DRAIN LINE
	CULINARY WATER LINE
	SECONDARY WATER LINE
	GAS LINE
	TELEPHONE CABLE
	ELECTRIC CABLE
	SANITARY SEWER LINE
	ASPHALT PAVING
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	MANHOLE
	CATCH BASIN
	CLEAN OUT BOX
	POLE & ANCHOR
	STREET LIGHT
	UNDISTURBED EARTH
	STRUCTURE
	GAS METER
	TRAFFIC SIGNAL LIGHT
	SINGLE GUTTER

SYMBOLS	DEFINITIONS
	VALLEY GUTTER
	SINGLE CURB
	CURB & GUTTER
	SIDEWALK
	RAILROAD TRACKS
	GUARD RAIL
	OPEN DITCH, CANAL
	CULVERT
	SECTION CORNER
	SOIL BORING
	MONUMENT
	BENCH MARK
	SIGN
	POWER POLE
	TELEPHONE POLE
	DECIDUOUS TREE
	CONIFEROUS TREE
	P.I.
	P.C. OR P.T.
	CONCRETE PVMT. SECTION
	SUBGRADE SEAL SECTION
	SELECT MATERIAL SECTION
	AGGREGATE BASE SECTION
	BITUMINOUS PVMT. SECTION
	OBLITERATE PAVEMENT
	CONCRETE PAVEMENT
	BITUMINOUS PAVEMENT
<u>PROFILE</u>	
	GROUND PROFILE
	CULVERT
	P.V.I.
	P.V.C. OR P.V.T.
	GROUNDWATER ELEVATION

DRAWING UPDATED MAY 2014

City of West Jordan, Utah



ABBREVIATIONS AND SYMBOLS ROADWAYS

STANDARD DRAWING

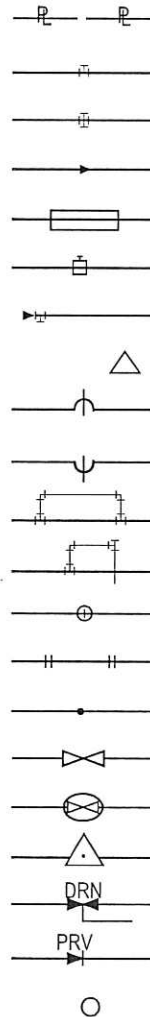
RD-005

STORM DRAIN, SEWER, WATER

ABBREVIATIONS

C.I.P. = CAST IRON PIPE
 D.I.P. = DUCTILE IRON PIPE
 PVC = POLYVINYL CHLORIDE
 MJ = MECHANICAL JOINT
 T.J. = TYTON JOINT
 O.B. = OPEN BELL
 L.B. = LARGE BELL
 WOV = WASH OUT VALVE
 VAL. = VALVE
 HYD. = HYDRANT
 REG. = REGULATOR
 BD. = BEND
 EXT. = EXTEND
 RED. = REDUCER
 FLG. = FLANGED
 ASSY. = ASSEMBLY
 M.W. = MANWAY
 MH = MANHOLE
 SPIG. = SPIGOT
 ADPT. = ADAPTOR
 TBC. = TOP BACK OF CURB
 F.C. = FACE OF CURB
 P.C.C.P. = PRE STRESSED CONCRETE
 CYLINDER PIPE
 C.M.P. CAS. = CORRUGATED METAL PIPE
 CASING
 A.A.V.V. = AUTOMATIC AIR RELEASE
 VALVE
 A.C.A.R.V. = AUTOMATIC COMBINATION
 AIR RELEASE VALVE
 ASPH. = ASPHALT
 A.C. = ASPHALTIC CONCRETE
 CONC. = CONCRETE
 GALV. = GALVINIZED IRON
 COP. = COPPER
 PRV. = PRESSURE REDUCING VALVE
 GV. = GATE VALVE
 BFV. = BUTTERFLY VALVE
 WOV. = WASH OUT VALVE

SYMBOLS



DEFINITIONS

PROPERTY LINES (100' MAP, DESIGN DRAWINGS)
 WATER MAIN TEE
 WATER MAIN CROSS
 REDUCER
 REGULATOR
 TAPPING SLEEVE AND VALVE
 PLUG AND CLAMP
 CONCRETE THRUST BLOCK
 PIPE OVER
 PIPE UNDER
 BYPASS
 RUN-AROUND
 CIRCLED VALVE - (SYSTEM NORMALLY CLOSED)
 OFFSET OR VERTICAL BENDS
 WASH OUT VALVE
 GATE VALVE
 BUTTERFLY VALVE
 AIR RELEASE VALVES
 MANUAL DRAIN VALVE
 PRESSURE REDUCING VALVE
 SEWER CLEANOUT

DRAWING UPDATED MAY 2014

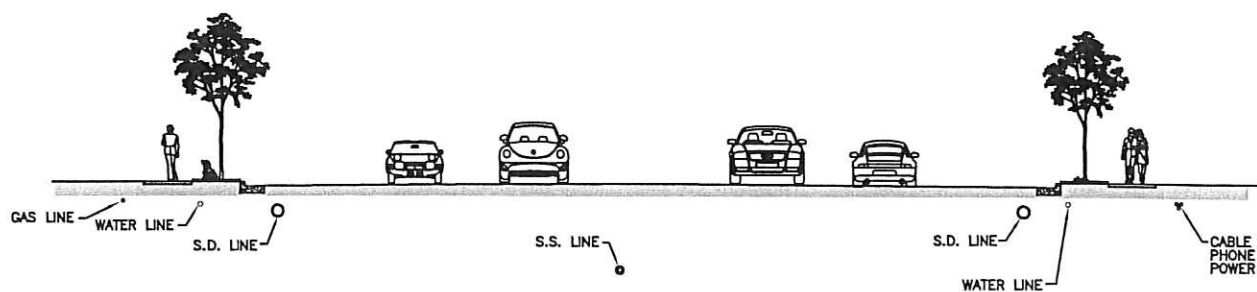
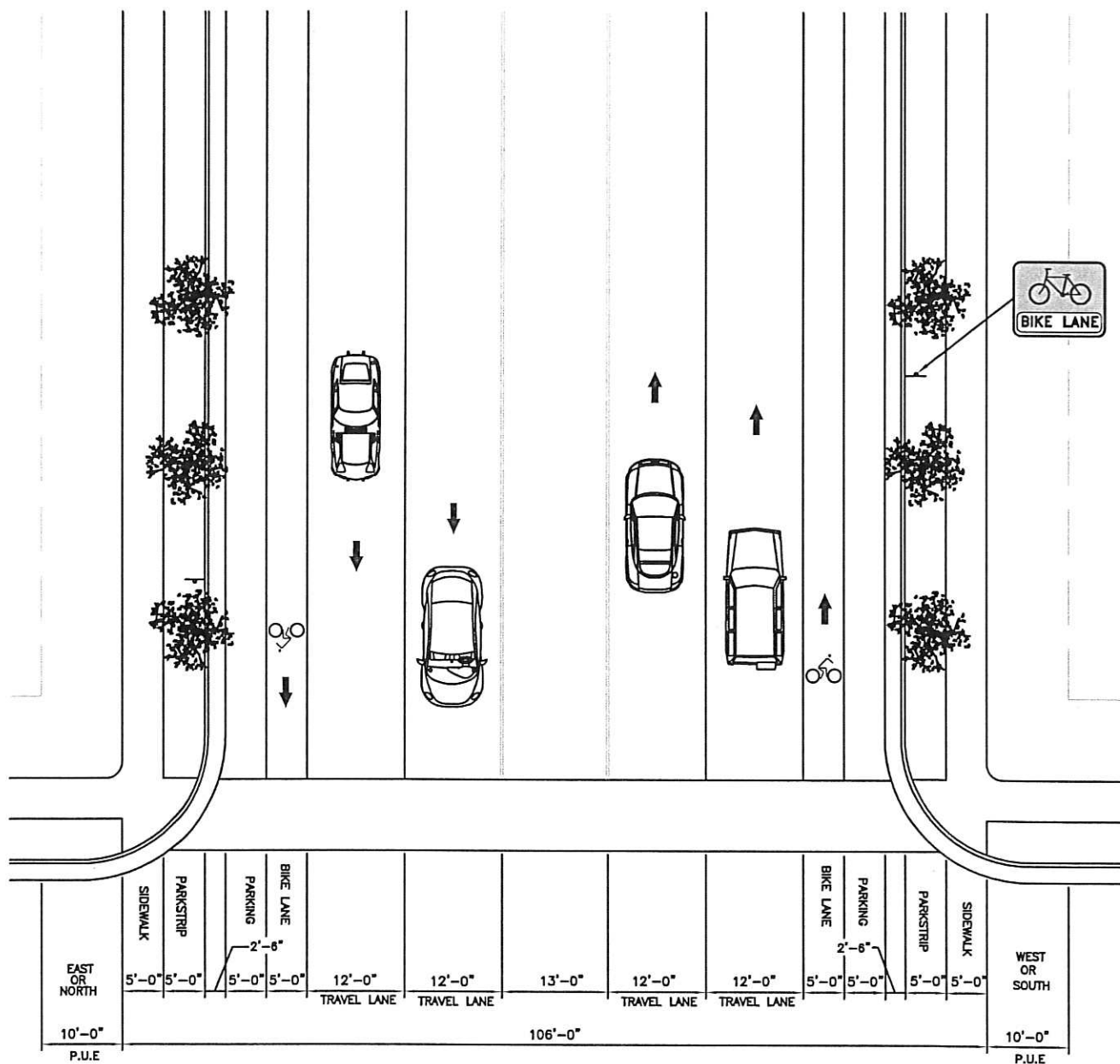
City of West Jordan, Utah



ABBREVIATIONS AND SYMBOLS STORM DRAIN, SEWER, AND WATER

STANDARD DRAWING

RD-010



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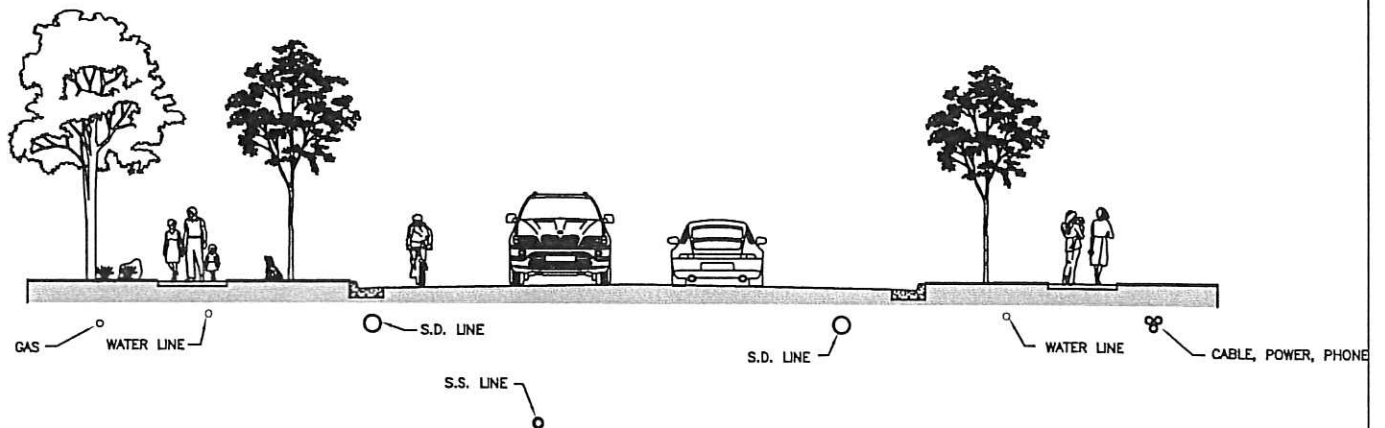
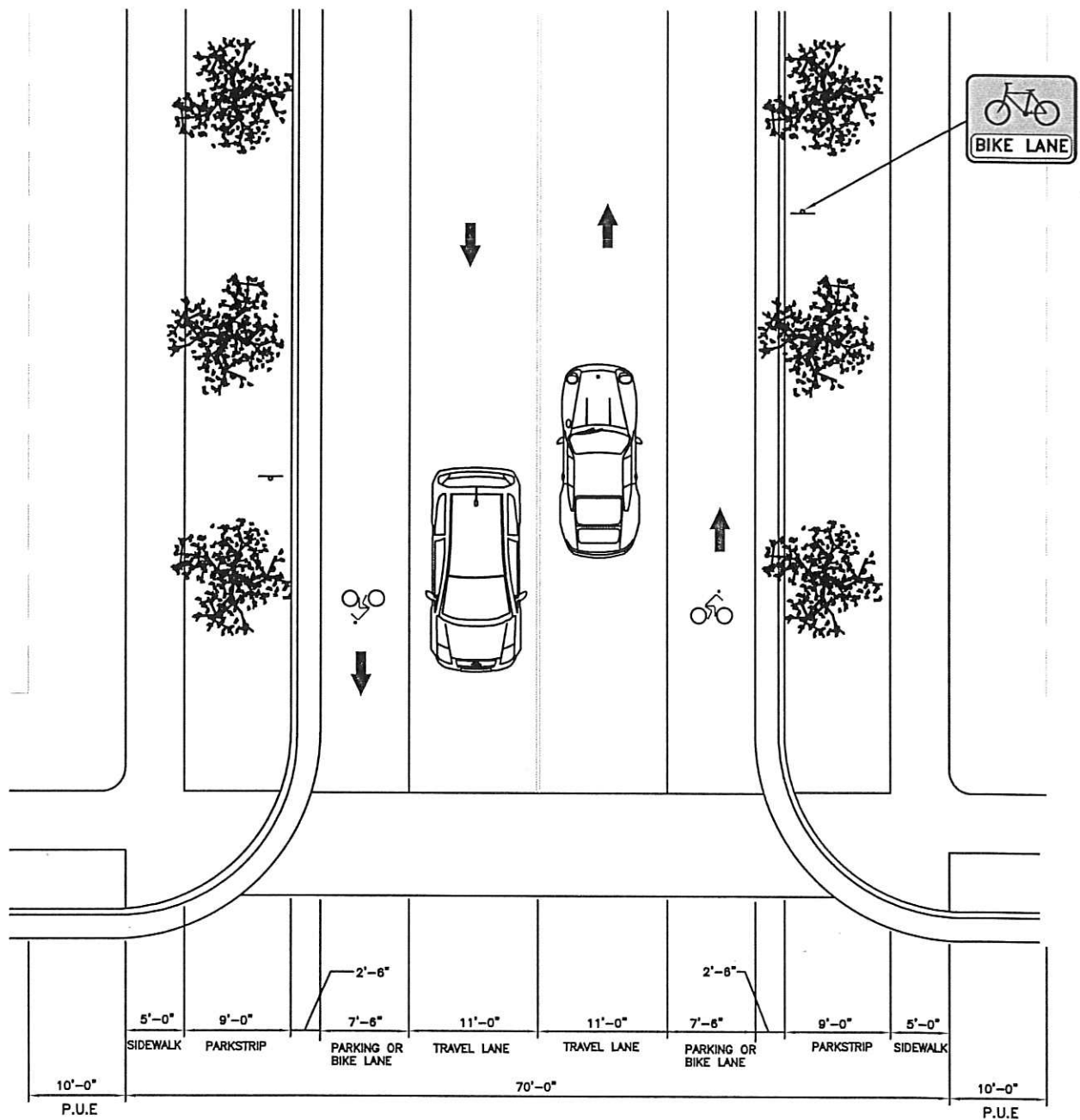
City of West Jordan, Utah



ARTERIAL ROAD CROSS SECTION (EXISTING AS OF 2006)

STANDARD DRAWING

RD-020



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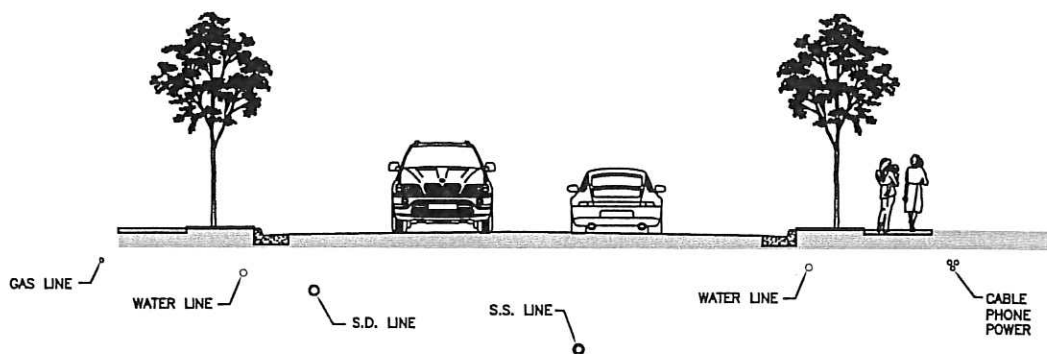
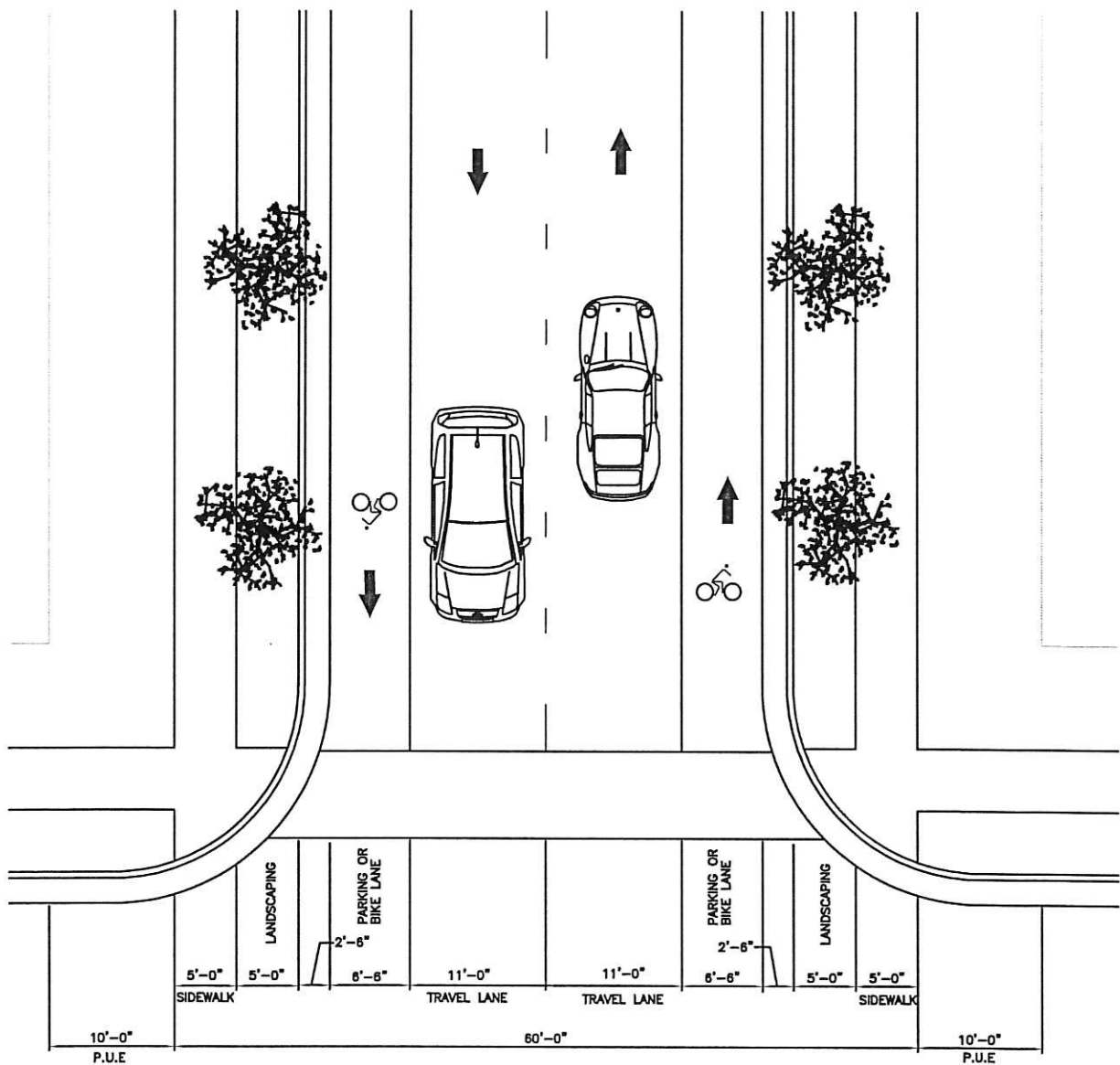
City of West Jordan, Utah



COLLECTOR STREET CROSS SECTIONS (TYPICAL)

STANDARD DRAWING

RD-030



Issues:

- 2 Lane Cross-Section (1 Lane In Each Direction)
- Bike Lanes Striped
- 5' Park Strip w/Trees Every 30 feet
- 5' Sidewalk
- Road has Houses Facing the Street
- Typical Capacity of 2,500 Vehicles/Day (quality of Life not Physical Capacity)
- Posted Speed Limit is 30 mph
- Function is Access to Abutting Property and Local Traffic Movement

NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

DRAWING UPDATED MAY 2014

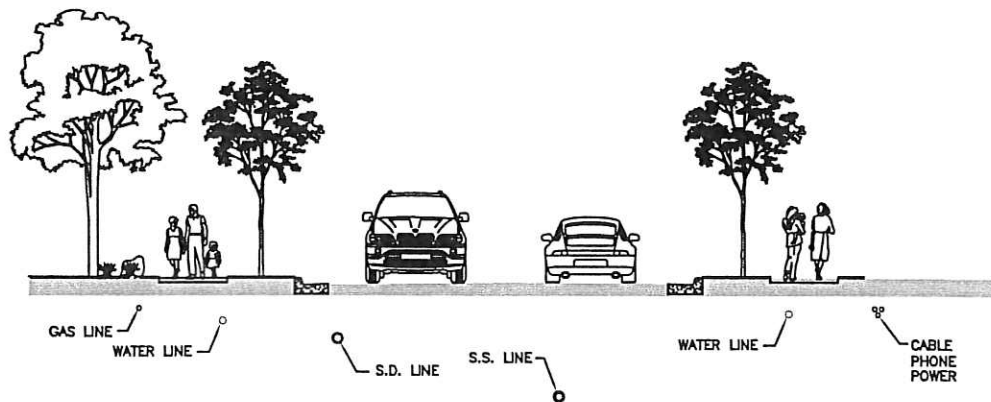
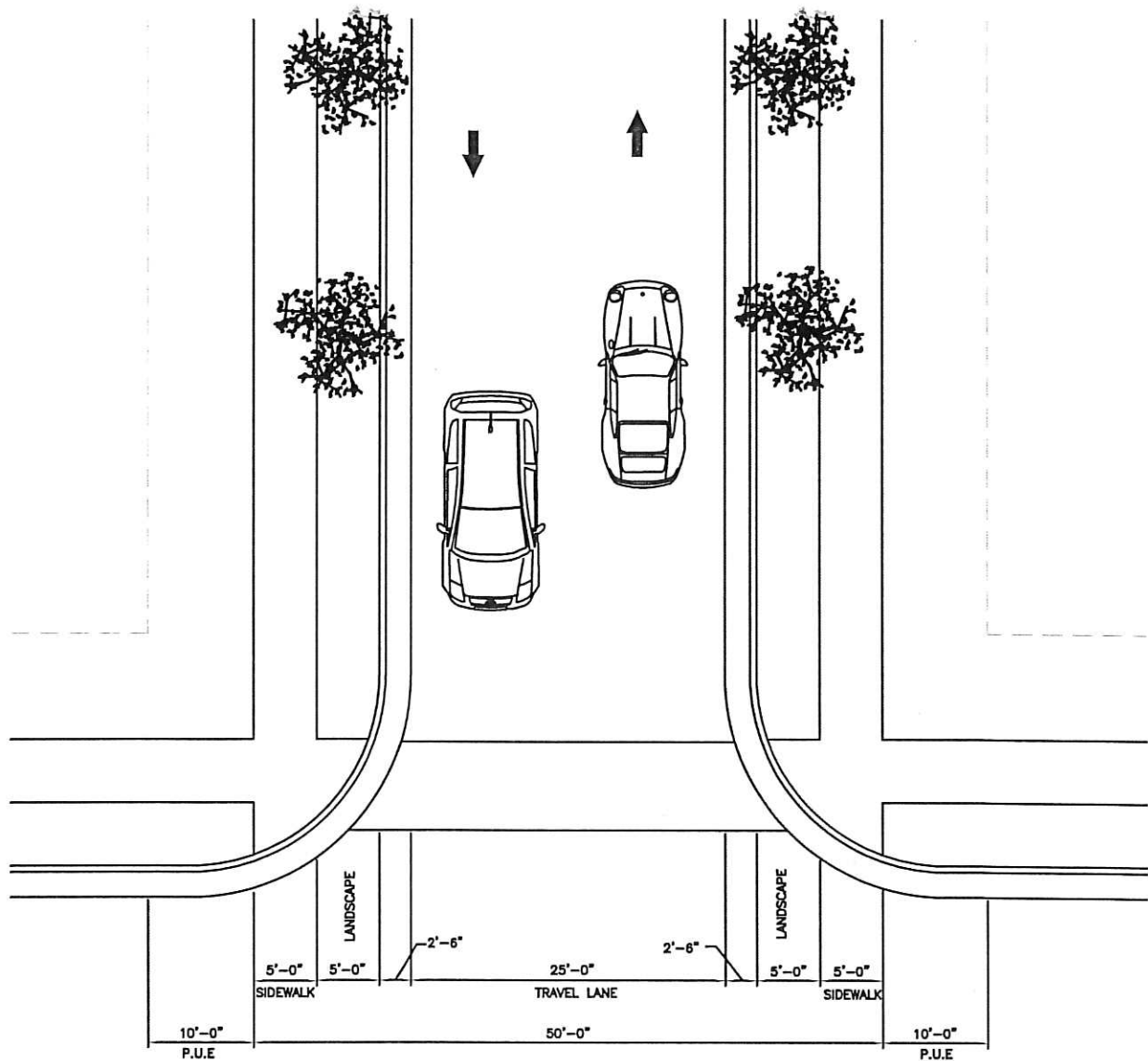
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RESIDENTIAL COLLECTOR CROSS SECTION (60' R/W 2 LANE)

STANDARD DRAWING

RD-035



Issues:

- 2 Lane Cross-Section (1 Lane in Each Direction)
- No Shoulder or Bike Lanes
- 5' Park Strip w/Trees Every 30 feet
- 5' Sidewalk
- Road has Houses Facing the Street
- Typical Capacity of 1,500 Vehicles/Day (quality of Life not Physical Capacity)
- Posted Speed Limit is 25 mph
- Function is Access to Abutting Property and Local Traffic Movement

NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

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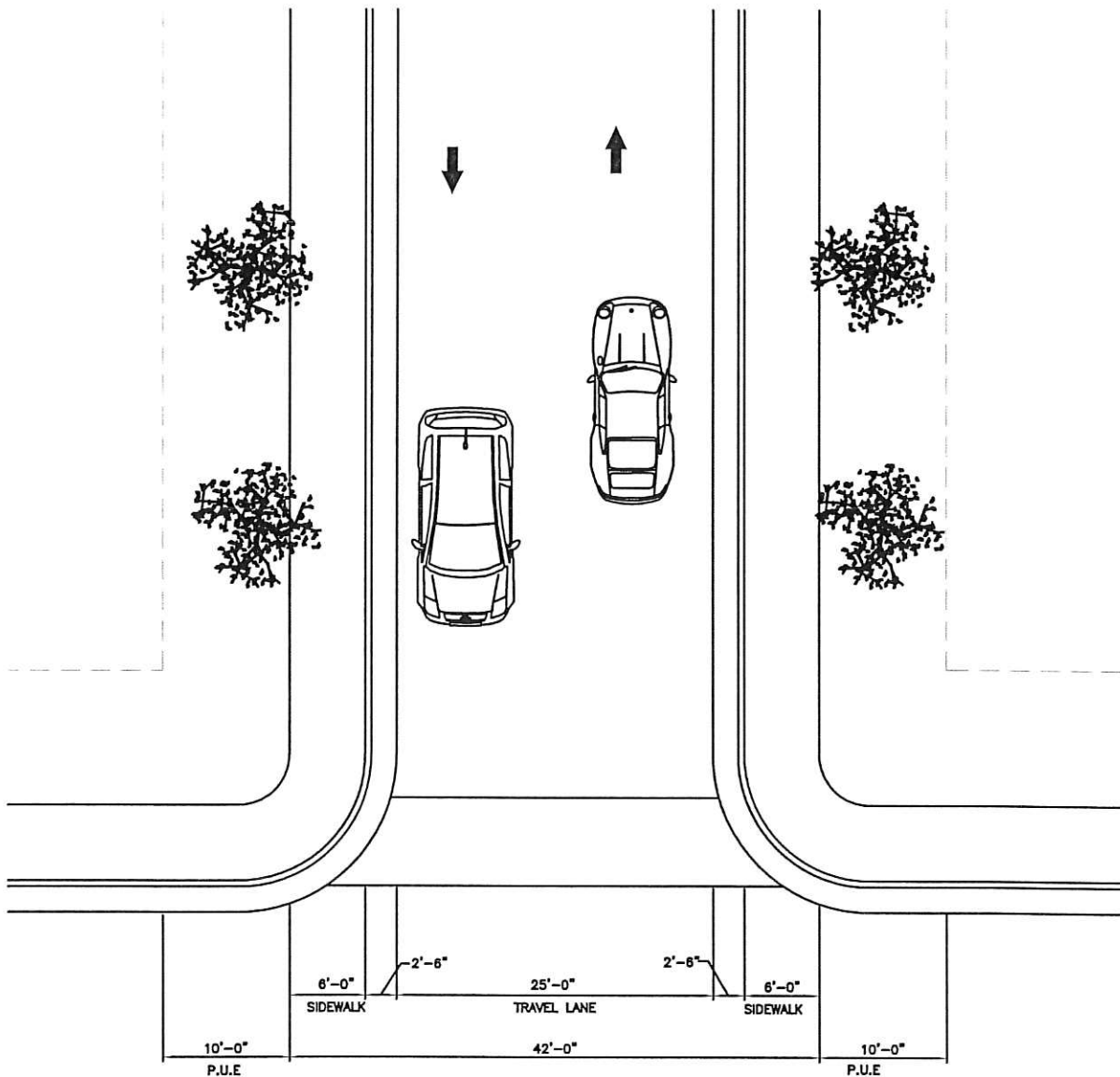
City of West Jordan, Utah



LOCAL STREET CROSS SECTION (50' R/W 2 LANE)

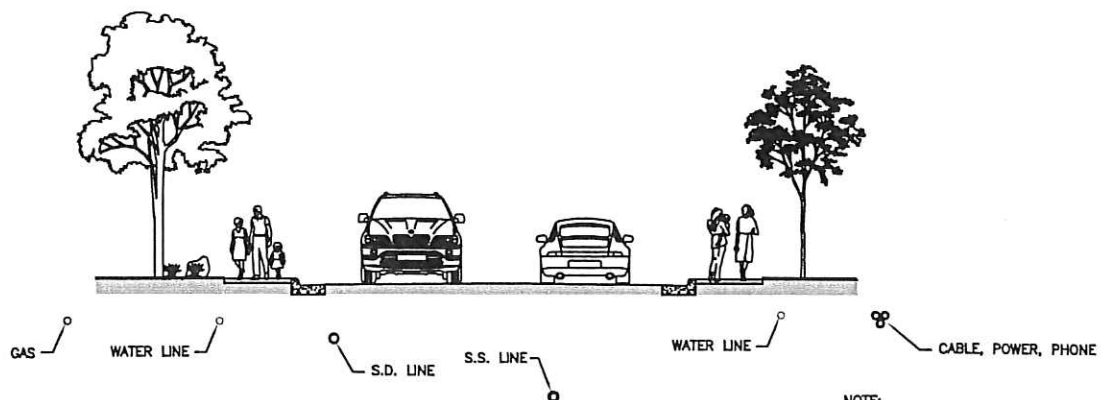
STANDARD DRAWING

RD-040



NOTE:

1. MAY INCLUDE A LANDSCAPE
MEDIAN



NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

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City of West Jordan, Utah

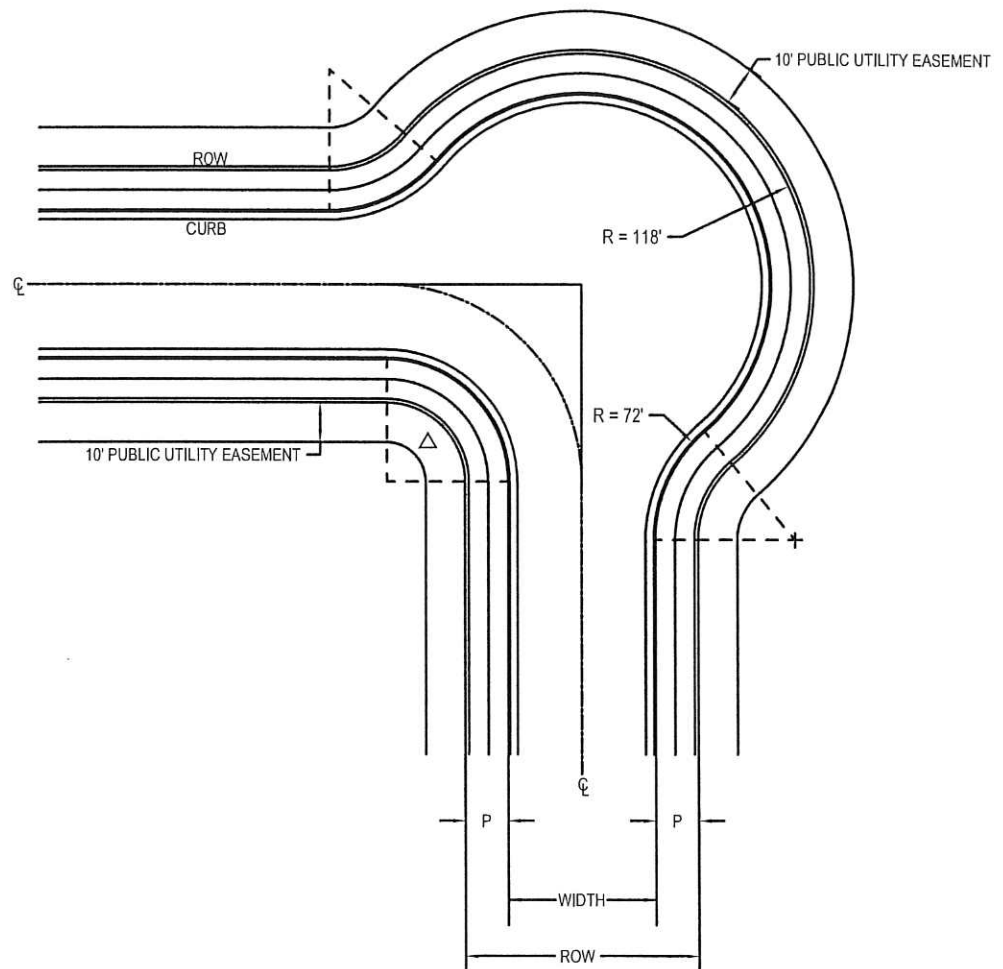


PRIVATE STREET CROSS SECTION

STANDARD DRAWING

RD-65

RD-071



NOTES

WHEN Δ IS LESS THAN 72° A SMOOTH CURVE WITH A MINIMUM RADIUS CONFORMING WITH THE STANDARDS FOR THE PARTICULAR GEOMETRIC SECTION SHALL BE USED.

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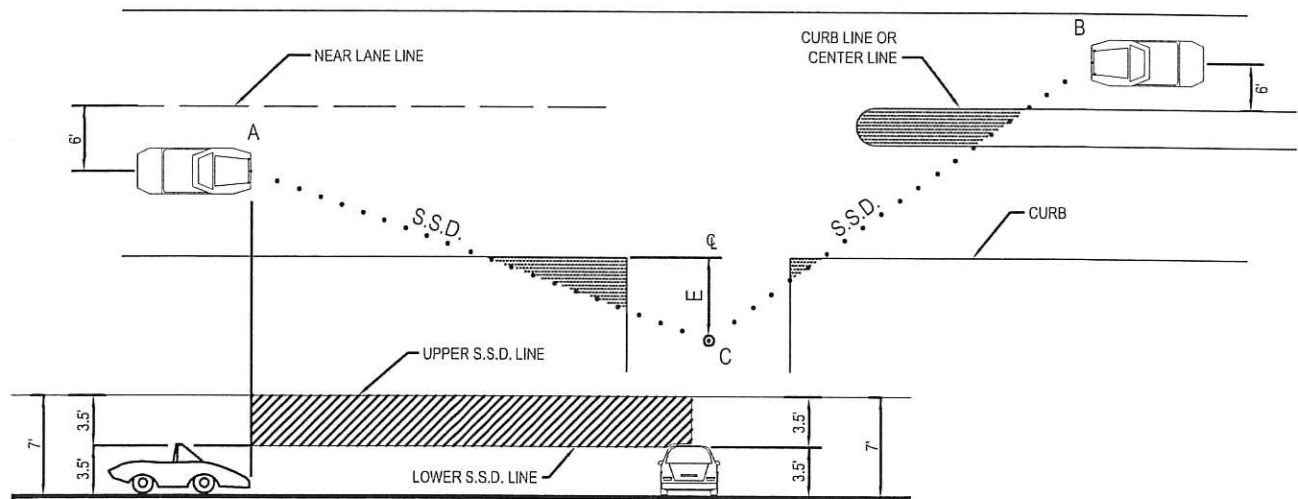
City of West Jordan, Utah



ROAD INTERSECTION "L" SHAPE

STANDARD DRAWING

RD-75





DESIGN SPEED	MIN. S.S.D. For left turns at stop
20	225'
25	280'
30	335'
35	390'
40	445'
45	500'
50	555'
55	610'
60	665'

E = 8' at driveways and 18' at public road intersections.
(Lesser values to 0' will only be considered under special situations).

Height of eye/object at points A and B and C = 3.5' Lower limit and 7' upper limit.

S.S.D. = Minimum stopping sight distance

 Limits of vertical sight zone

 Limits of horizontal sight zone

Design engineer shall abide by all guidelines stated in the AASHTO policy on Geometric Design of Highway and streets.

There shall be no sight distance obstruction in either the horizontal or vertical sight zones. Sight distance obstruction are objects that may block the view of motorists including utility vents, hills, walls, signs, street furniture, mature landscaping*, horizontal and vertical road curvatures etc., in the combined horizontal and vertical sight zones. Individual elements (other than deciduous street trees) shall be no thicker than 12 inches nor spaced closer than 100 feet apart at intersections or 50 feet apart at driveways.

City Policy For Evaluating Sight Distance On All Proposed Projects:

1. The developers engineer shall evaluate all proposed intersections and driveways against the minimum S.S.D. criteria for grading plans, tract maps, and landscape plans.
2. If any locations are identified with an S.S.D. less than the minimum S.S.D. for any of the orders of preference, the developer's engineer shall bring these locations to the attention of the city's project engineer by identifying the exact length of S.S.D. that is available as to each order of preference and the speed associated with same and the obstruction limiting the S.S.D. shall be identified. The developer's engineer shall also note on the plans what improvements would be necessary to obtain the 'minimum' S.S.D.

*NOTE:

It is especially critical that 'mature landscaping' be considered in this S.S.D. criteria not just the barren ground.

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City of West Jordan, Utah



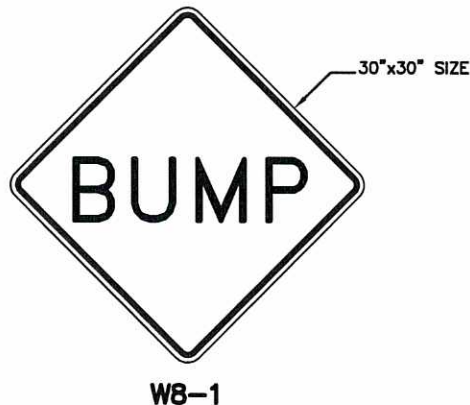
STOPPING SIGHT DISTANCE REQUIRED AT INTERSECTIONS AND DRIVEWAYS

STANDARD DRAWING

RD-85

ASPHALT SPEED TABLE

1. UNTREATED BASE COURSE; PROVIDE CLASS A UNTREATED BASE COURSE SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE MATERIAL PER APWA SECTION 32 05 10.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. ASPHALT PAVEMENT: USE HOT WEATHER ASPHALT CONCRETE PATCH MATERIAL SPECIFIED IN APWA SECTION 33 05 25.
 - A. INSTALL IN LIFTS NO GREATER THAT 3 INCHES AFTER COMPACTION.
 - B. COMPACT EACH LIFT TO 94 PERCENT OF ASTM D 2041 (RICE METHOD) PLUS OR MINUS 2 PERCENT.
3. TACK COAT: APWA SECTION 32 12 13.13 CLEAN ALL VERTICAL SURFACES ADJACENT TO THE PATCH. APPLY FULL COVERAGE TACK COAT.
4. ASPHALT PAVEMENT JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE. SAW-CUT JOINT IF EXISTING PAVEMENT EXCEEDS 2 INCHES IN THICKNESS PAVEMENT.
5. JOINT REPAIR: IF A CRACK OCCURS AT THE CONNECTION TO EXISTING PAVEMENT OR AT ANY STREET FIXTURE, SEAL THE CRACK PER APWA SECTION 32 01 17.
6. MILLING: APWA SECTION 02 41 14
 - A. REMOVE COMPACTED MILLING ON PREPARED SURFACES
 - B. MILL AROUND GUTTER LIP RADII TO SPECIFIED DEPTH PRIOR TO PAVING.
7. PAINT: PROVIDE ALKYD RESIN PAINT AS SPECIFIED IN APWA SECTION 32 17 23. BROOM OR FLUSH THE SURFACE TO REMOVE DIRT, LOOSE STONES, OR OTHER FOREIGN MATERIAL IMMEDIATELY PRIOR TO APPLYING. APPLY PER APWA SECTION 32 17 23 AND CONTRACT DRAWINGS.



DRAWING UPDATED OCTOBER 2015

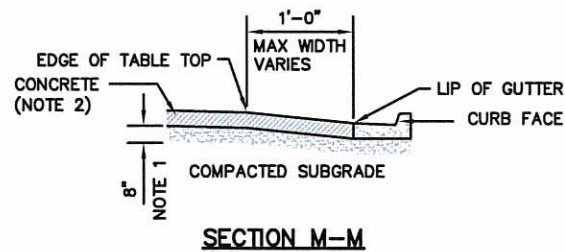
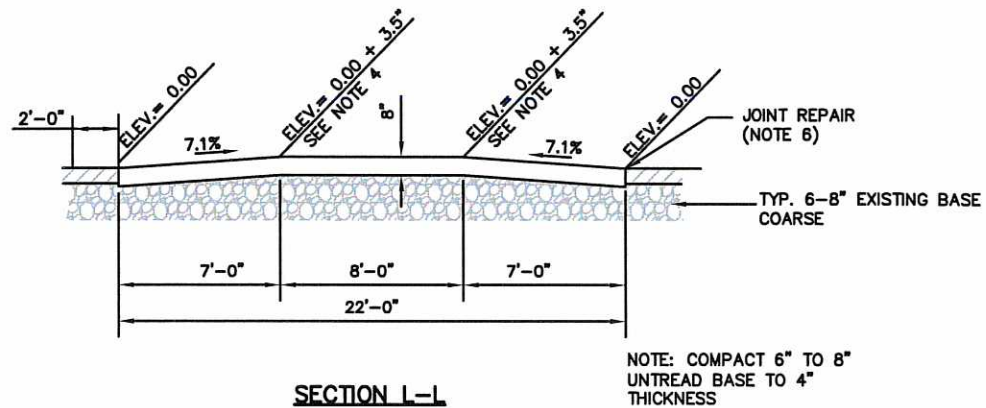
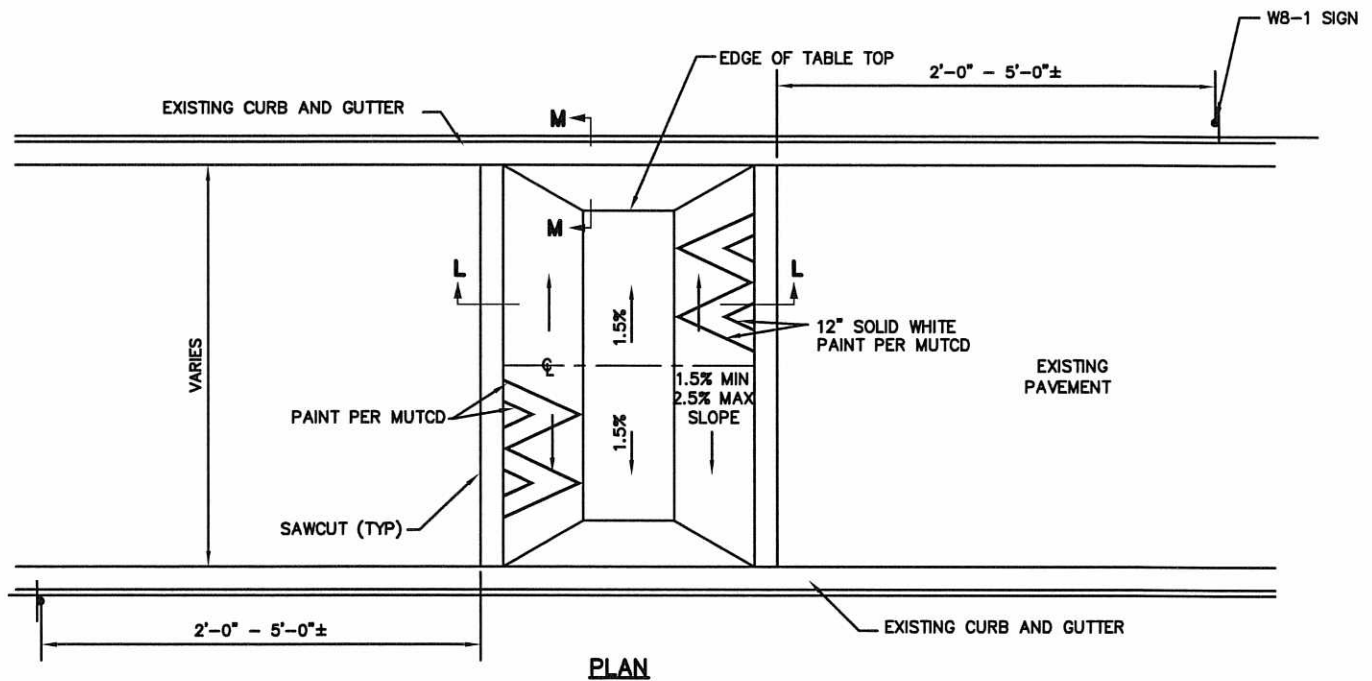
City of West Jordan, Utah



ASPHALT NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-86



STANDARD CONCRETE

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City of West Jordan, Utah



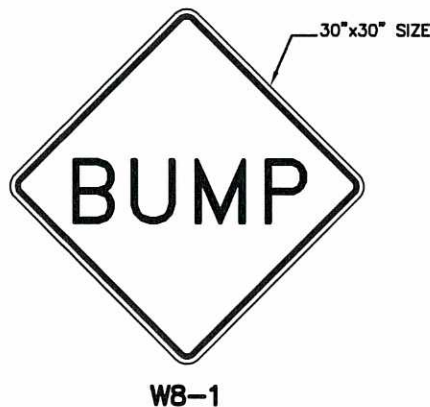
CONCRETE NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-87

CONCRETE SPEED TABLE

1. UNTREATED BASE COURSE; PROVIDE CLASS A UNTREATED BASE COURSE SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE MATERIAL PER APWA SECTION 32 11 23.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. 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.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10
 - C. PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
 - D. CURE CONCRETE PER APWA SECTION 03 39 00 WITH TYPE ID CLASS A OR B (CLEAR WITH FUGITIVE DYE)MEMBRANE FORMING COMPOUND UNLESS SPECIFIED OTHERWISE.
3. EXPANSION JOINTS:
 - A. MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH.
 - B. PROVIDE F1 JOINT FILLER MATERIAL 1/2 INCH WIDE, APWA SECTION 32 13 73.
 - C. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
4. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL 1/8 INCH WIDE AND 1/3 SLAB THICKNESS.
5. FINISH: BROOMED.
6. JOINT REPAIR: IF A CRACK OCCURS AT THE CONNECTION TO EXISTING PAVEMENT, SEAL THE CRACK PER APWA SECTION 32 01 17.



DRAWING UPDATED OCTOBER 2015

City of West Jordan, Utah



CONCRETE NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-87

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.

A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.

B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.

A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.

B. PLACE CONCRETE PER APWA SECTION 03 30 10 .

C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.

D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)

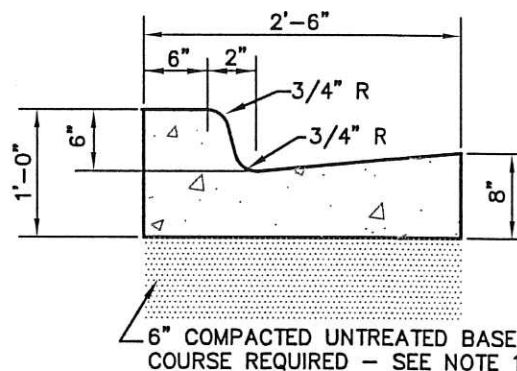
3. EXPANSION JOINTS:

A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.

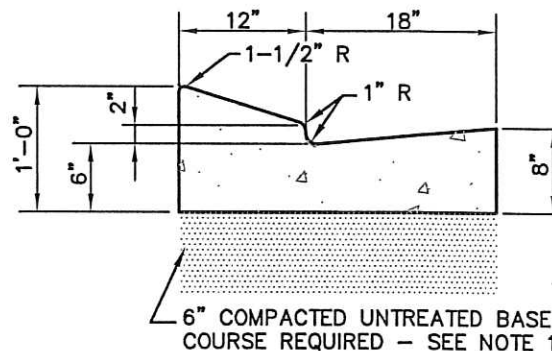
B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.

4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.

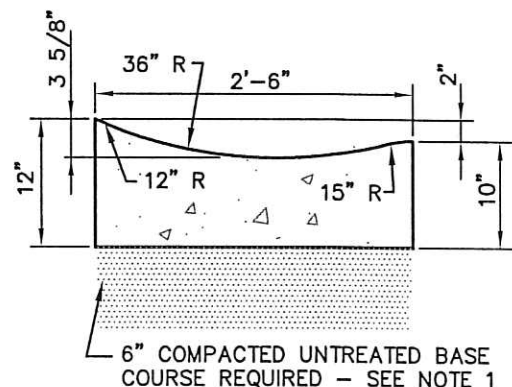
5. ADD SEWER STUB TACKS INTO CURB WHERE LATERAL CROSSES UNDER CURB



TYPE A CURB & GUTTER
ALL NEW CONSTRUCTION



TYPE B CURB & GUTTER
REPLACEMENT ONLY



TYPE C CURB & GUTTER
REPLACEMENT ONLY

DRAWING UPDATED JUNE 2014

City of West Jordan, Utah



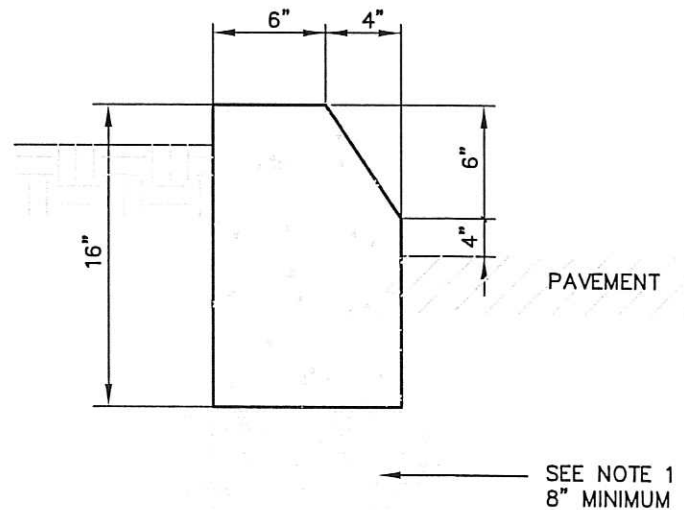
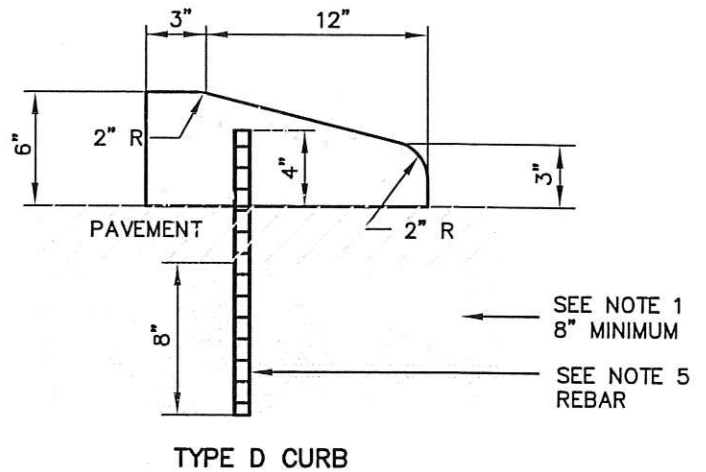
STANDARD CURB & GUTTER

STANDARD DRAWING

RD-100

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10.
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAN WITH FUGITIVE DYE)
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.



DRAWING UPDATED JUNE 2014

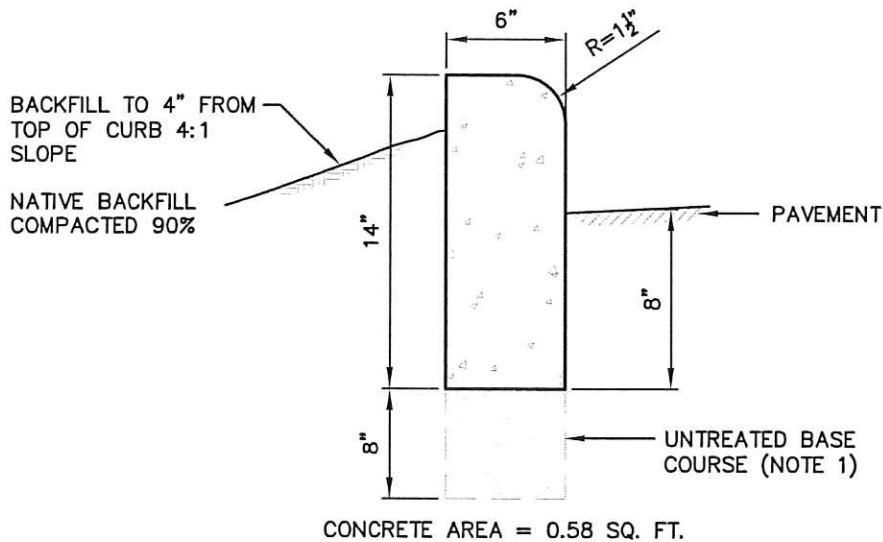
City of West Jordan, Utah



STANDARD MEDIAN CURB

STANDARD DRAWING

RD-105



NOTES:

1. UNTREATED BASE COURSE: PROVIDE CLASS "A" UNTREATED BASE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS SPIDER CRACKS MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10.
 - C. PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
 - D. CURE CONCRETE PER APWA SECTION 03 39 00 WITH TYPE ID CLASS A (CLEAR WITH FUGITIVE DYE) MEMBRANE FORMING COMPOUND UNLESS SPECIFIED OTHERWISE.
3. EXPANSION JOINT: MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2 INCH WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
 - A. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
 - B. EXPANSION JOINTS ARE REQUIRED AT THE START OR END OF A STREET INTERSECTION CURB RETURN.
 - C. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - D. EXPANSION JOINTS ARE NOT REQUIRED IN CURB TANGENTS OR SLIP FORM WORK.
4. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL.
 - A. 1/8 INCH WIDE AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF SLAB IS GREATER THAN 8 INCHES THICK. IF NECESSARY, MATCH LOCATION OF CONTRACTION JOINTS IN ADJACENT CONCRETE FLATWORK.
5. FINISH: BROOMED.

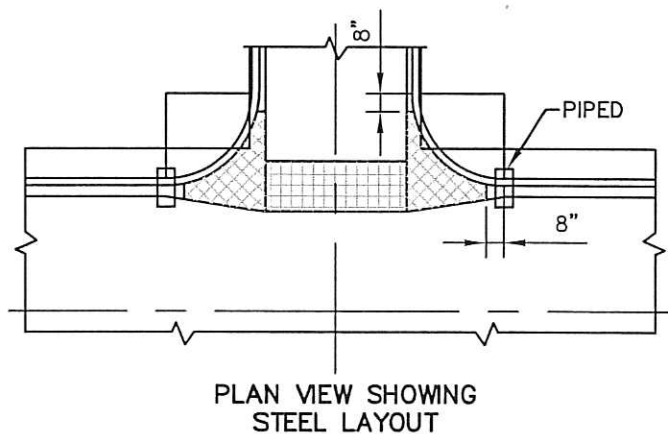
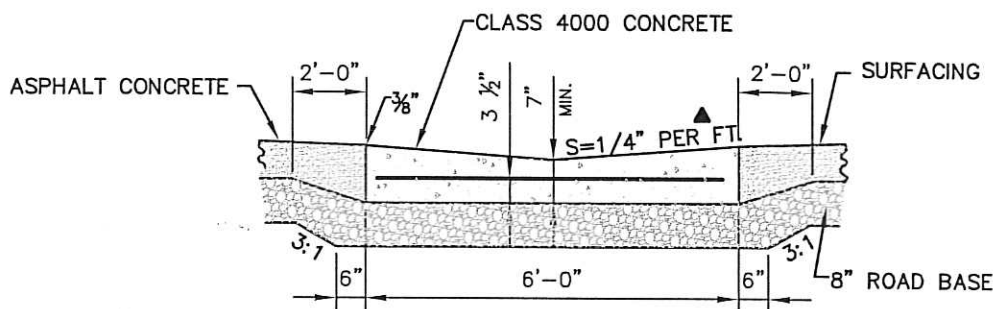
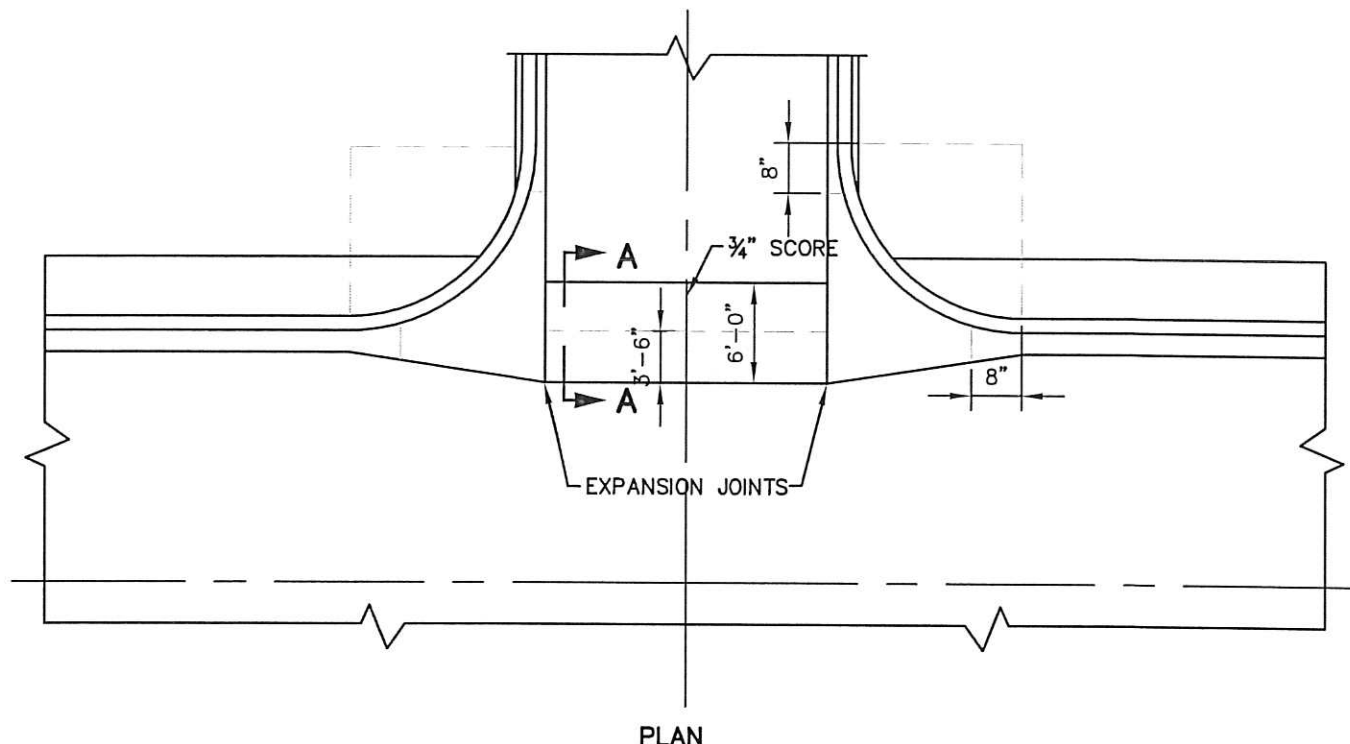
DRAWING UPDATED JUNE 2014

City of West Jordan, Utah



CONCRETE CURB WALL FOR PAVEMENT EDGE

PLAN
RD-106



CROSS GUTTERS TO BE USED ONLY WHERE VEHICLES NORMALLY STOP. AND ONLY WITH PRIOR APPROVAL OF CITY ENGINEER. UNDERGROUND DRAINAGE SHOULD BE USED INSTEAD WHENEVER PRACTICAL. DRAINAGE WATER TO BE TAKEN UNDERGROUND AT INTERSECTIONS ACROSS THROUGH TRAVELED ROADS.

NOTE: No. 4 AT 12" EPOXY COATED REBAR PER ASTM D2963 BOTH WAYS IN ALL CROSS GUTTER AND SPANDRELS.

DRAWING UPDATED MAY 2014

▲ GUTTER AND SPANDRELS

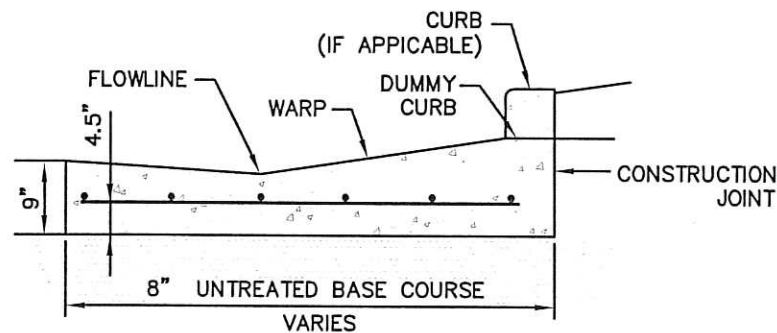
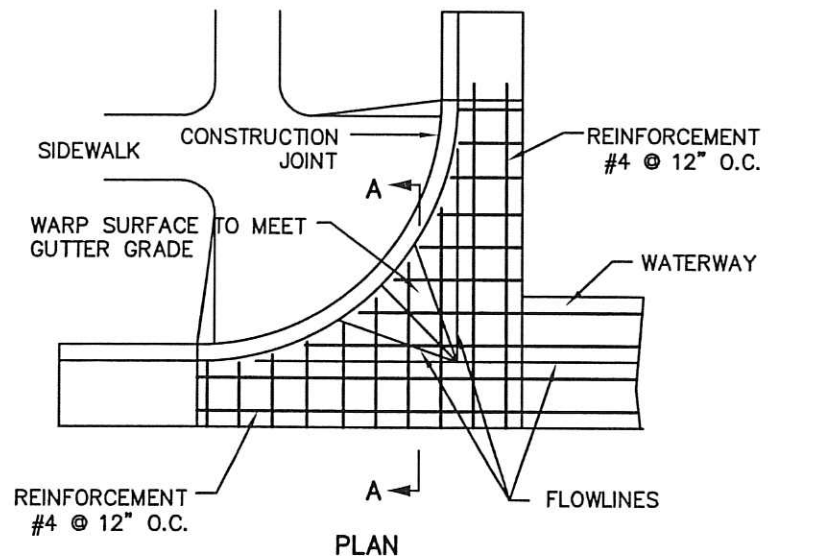
City of West Jordan, Utah



STANDARD CROSS GUTTER AT DRIVEWAY (BY APPROVAL ONLY)

STANDARD DRAWING

RD-110



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSIONS JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED MAY 2014

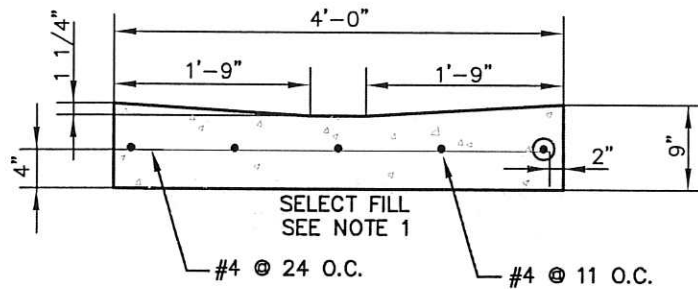
City of West Jordan, Utah



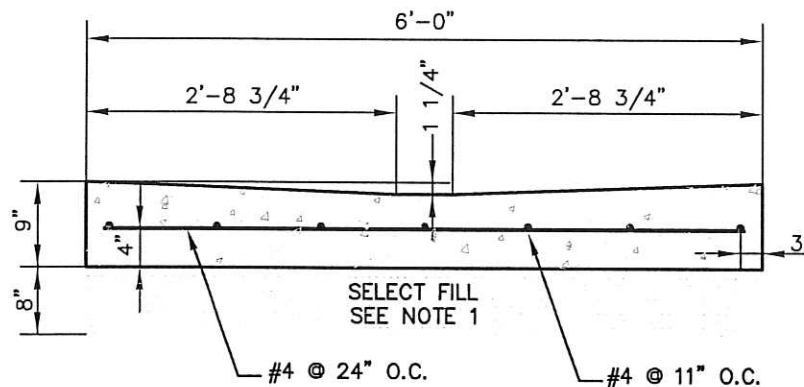
STANDARD WATERWAY TRANSITION

STANDARD DRAWING

RD-110A



**4' WATERWAY SECTION
REPLACEMENT ONLY**



**6' WATERWAY SECTION
ALL NEW CONSTRUCTION**

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
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 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. IN LIFTS NOT TO EXCEED EQUIPMENT COMPACTION CAPABILITY.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10.
 - C. PROVIDE 1/2" RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2" THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSIONS JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED MAY 2014

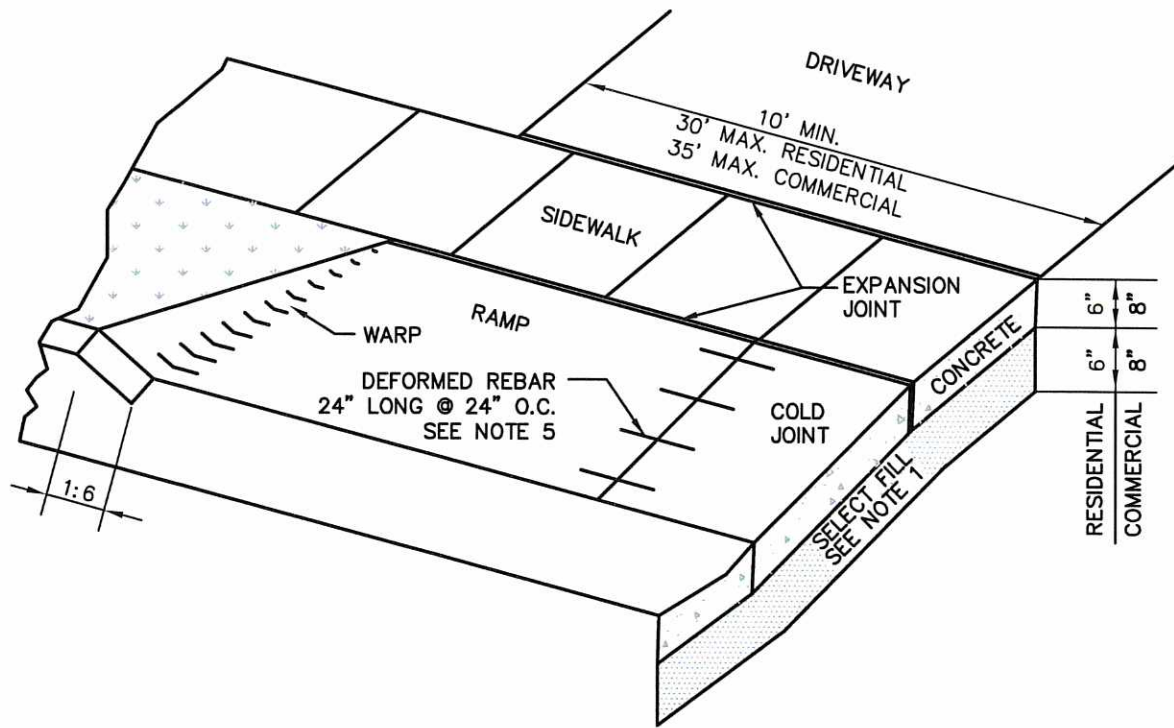
City of West Jordan, Utah



STANDARD WATERWAY

STANDARD DRAWING

RD-115



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
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2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
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3. EXPANSION JOINTS:
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 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.
6. FINISH: BROOM FINISH

DRAWING UPDATED AUGUST 2014

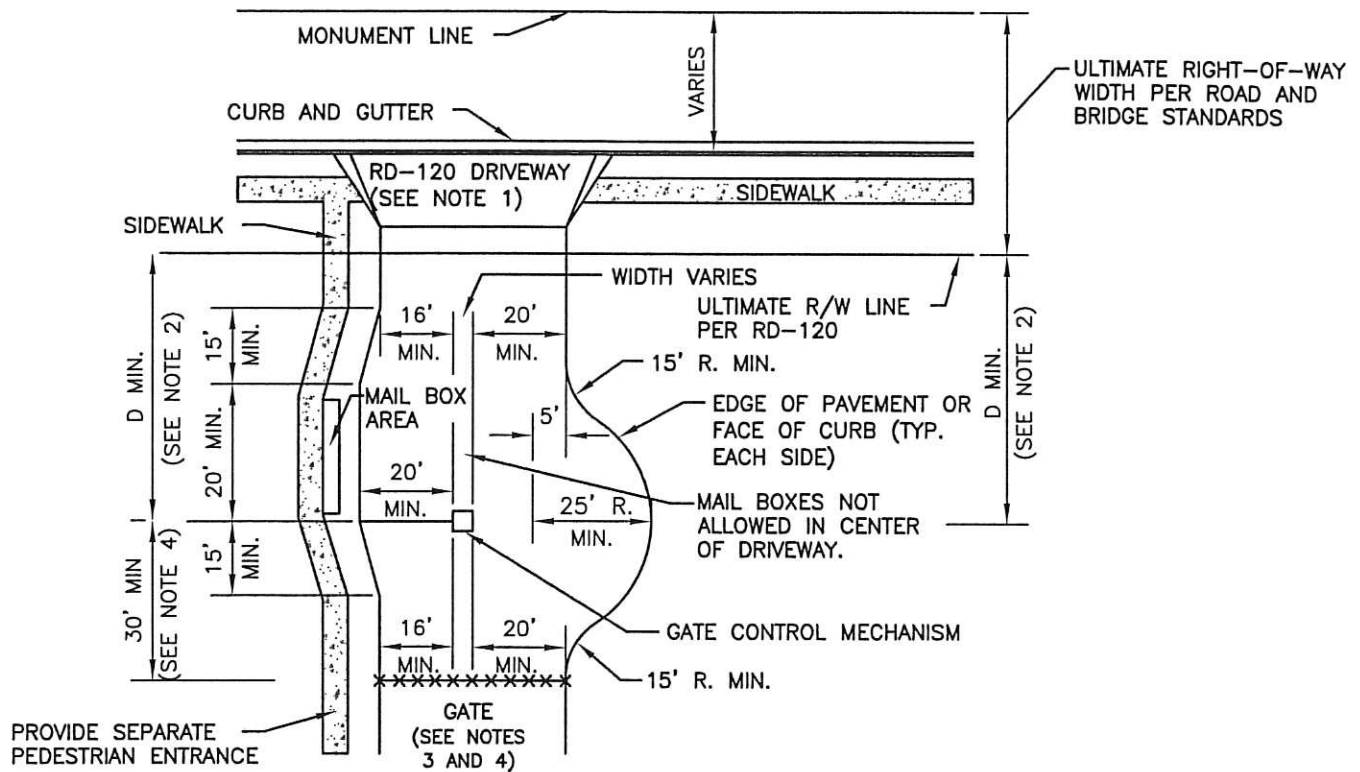
City of West Jordan, Utah



STANDARD DRIVE APPROACH

STANDARD DRAWING

RD-120



NOTES:

1. DRIVEWAY PER WEST JORDAN STANDARD DETAIL RD-120.
2. D MIN. FROM ULTIMATE R/W LINE PER RD-120 TO CENTERLINE OF GATE CONTROL MECHANISM. D MIN. VARIES IN ACCORDANCE TO DENSITY OF RESIDENTIAL DEVELOPMENT AS SHOWN BELOW:

DEVELOPMENT UNITS	D MIN.
LESS THEN 25	20'
25 TO 100	40'
100 TO 150	60'
151 TO 200	80'
GREATER THAN 200	100'

3. GATE INSTALLED AT BEGINNING OF 15' RADIUS.
4. 30' MIN. DIMENSION FROM CENTERLINE OF GATE CONTROL MECHANISM TO FACE TO GATE.
5. WHERE EXISTING CONDITIONS DEEM IT NECESSARY TO REQUEST A DESIGN EXCEPTION OF THE GATED ACCESS, THIS STANDARD MAY BE MODIFIED BY THE TRAFFIC ENGINEER.

DRAWING UPDATED AUGUST 2014

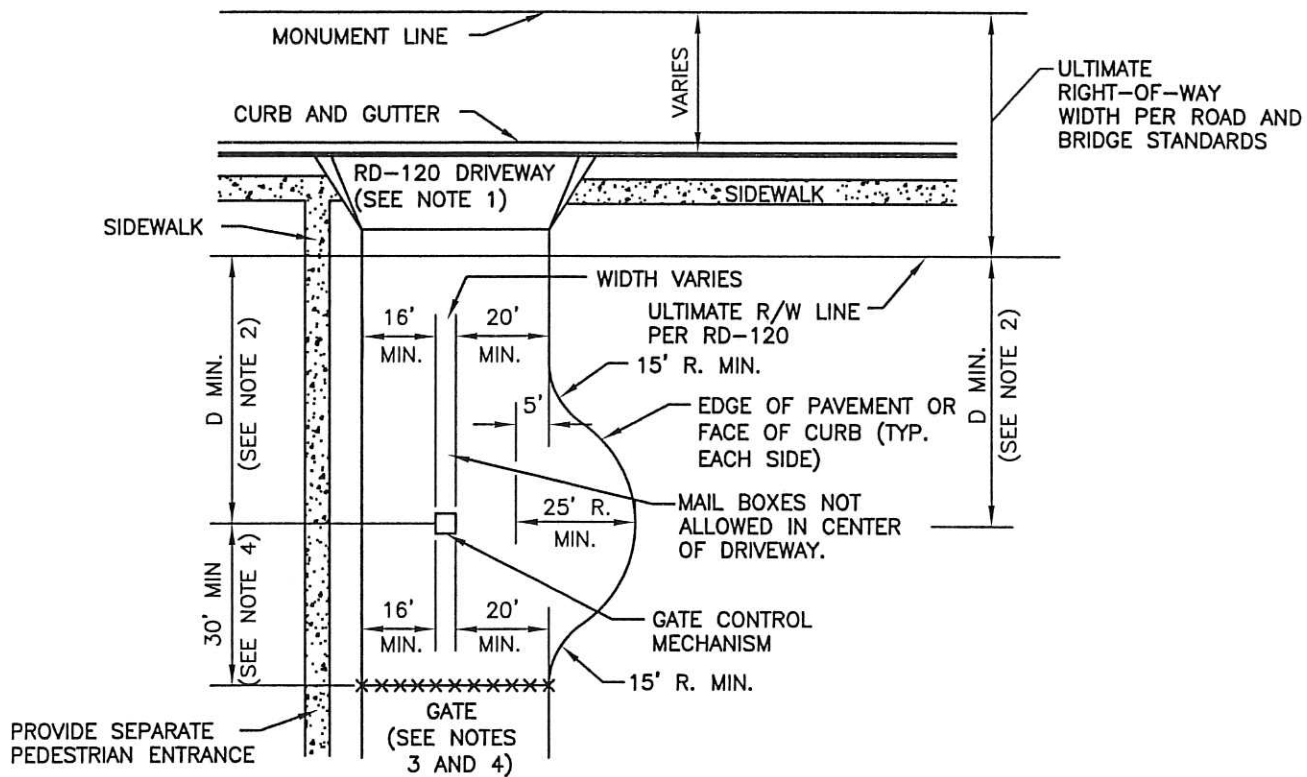
City of West Jordan, Utah



TYPICAL DRIVEWAY ACCESS TO PRIVATE GATED COMMUNITY WITH EXTERNAL MAILBOX AREA

STANDARD DRAWING

RD-121



NOTES:

1. DRIVEWAY PER WEST JORDAN STANDARD DETAIL RD-120.
2. D MIN. FROM ULTIMATE R/W LINE PER RD-120 TO CENTERLINE OF GATE CONTROL MECHANISM. D MIN. VARIES IN ACCORDANCE TO DENSITY OF RESIDENTIAL DEVELOPMENT AS SHOWN BELOW:

DEVELOPMENT UNITS	D MIN.
LESS THEN 25	20'
25 TO 100	40'
100 TO 150	60'
151 TO 200	80'
GREATER THAN 200	100'

3. GATE INSTALLED AT BEGINNING OF 15' RADIUS.
4. 30' MIN. DIMENSION FROM CENTERLINE OF GATE CONTROL MECHANISM TO FACE TO GATE.
5. WHERE EXISTING CONDITIONS DEEM IT NECESSARY TO REQUEST A DESIGN EXCEPTION OF THE GATED ACCESS, THIS STANDARD MAY BE MODIFIED BY THE TRAFFIC ENGINEER.

DRAWING UPDATED AUGUST 2014

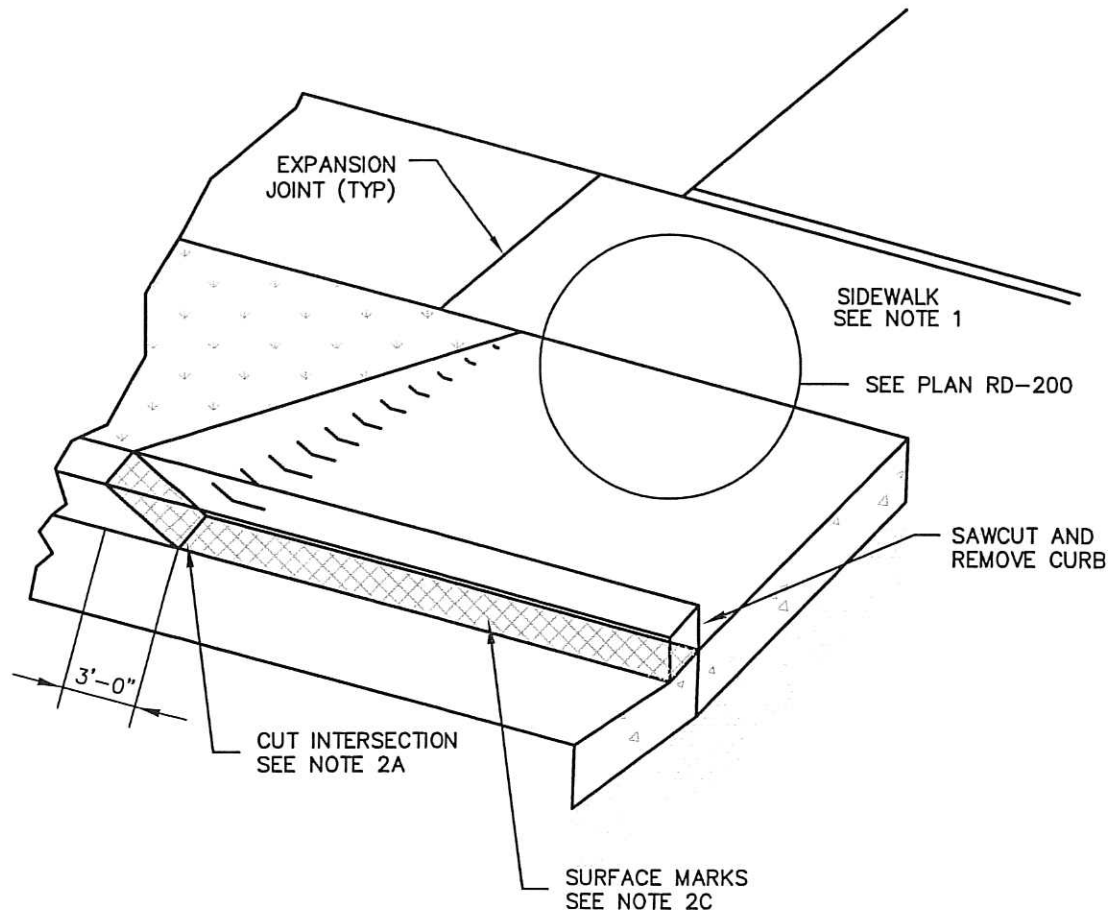
City of West Jordan, Utah



TYPICAL DRIVEWAY ACCESS TO PRIVATE GATED
COMMUNITY WITHOUT EXTERNAL MAILBOX AREA

STANDARD DRAWING

RD-122



NOTES:

1. SIDEWALK:

- A. REMOVE AND REPLACE ALL DETERIORATED, WEAK OR UNSOUND CONCRETE.
- B. THICKNESS OF SIDEWALK AT DRIVEWAY RAMP TO MATCH THICKNESS OF DRIVEWAY RAMP.
- C. MATCH ELEVATION OF DRIVEWAY WALK TO THE NEAREST JOINT BEYOND THE WIDTH OF THE DRIVEWAY.

2. CURB CUTTING:

- A. NO OVER-CUTTING WHERE CUTS MERGE.
- B. BEVEL FRONT EDGE AT FLOWLINE OR HAVE SAWCUT MATCH FLOWLINE.
- C. GRIND SAWED SURFACES SO THAT NO BLADE MARKS APPEAR.

3. EXPANSION JOINTS: PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.

DRAWING UPDATED AUGUST 2014

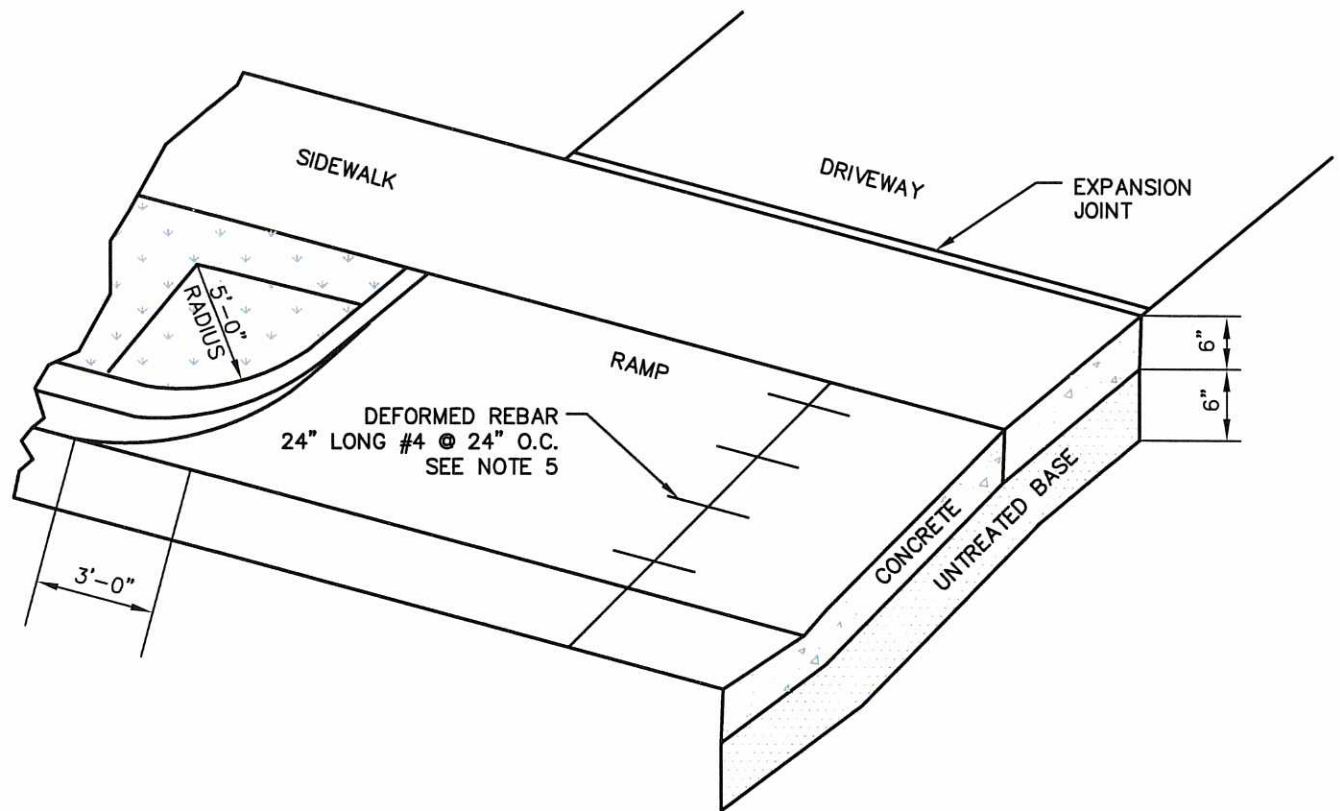
City of West Jordan, Utah



SAW-CUT DRIVE APPROACH

STANDARD DRAWING

RD-125



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
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2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00.
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 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: IF COLD JOINT IS CONSTRUCTED IN THE DRIVE APPROACH, INSTALL ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED AUGUST 2014

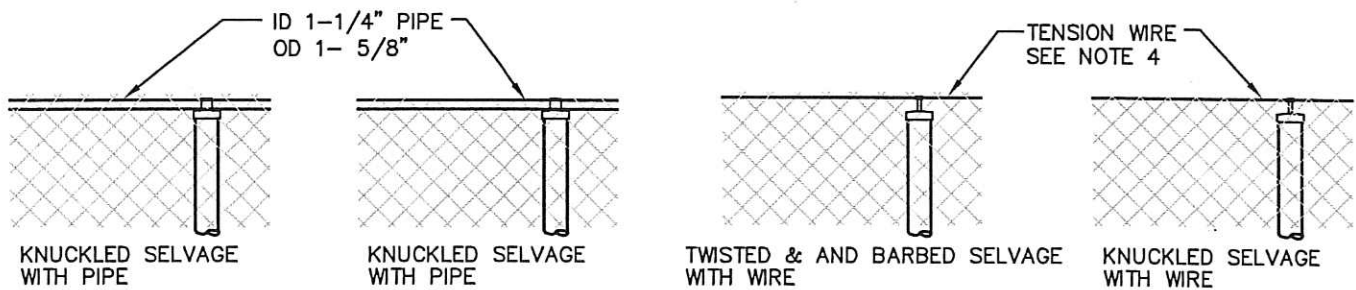
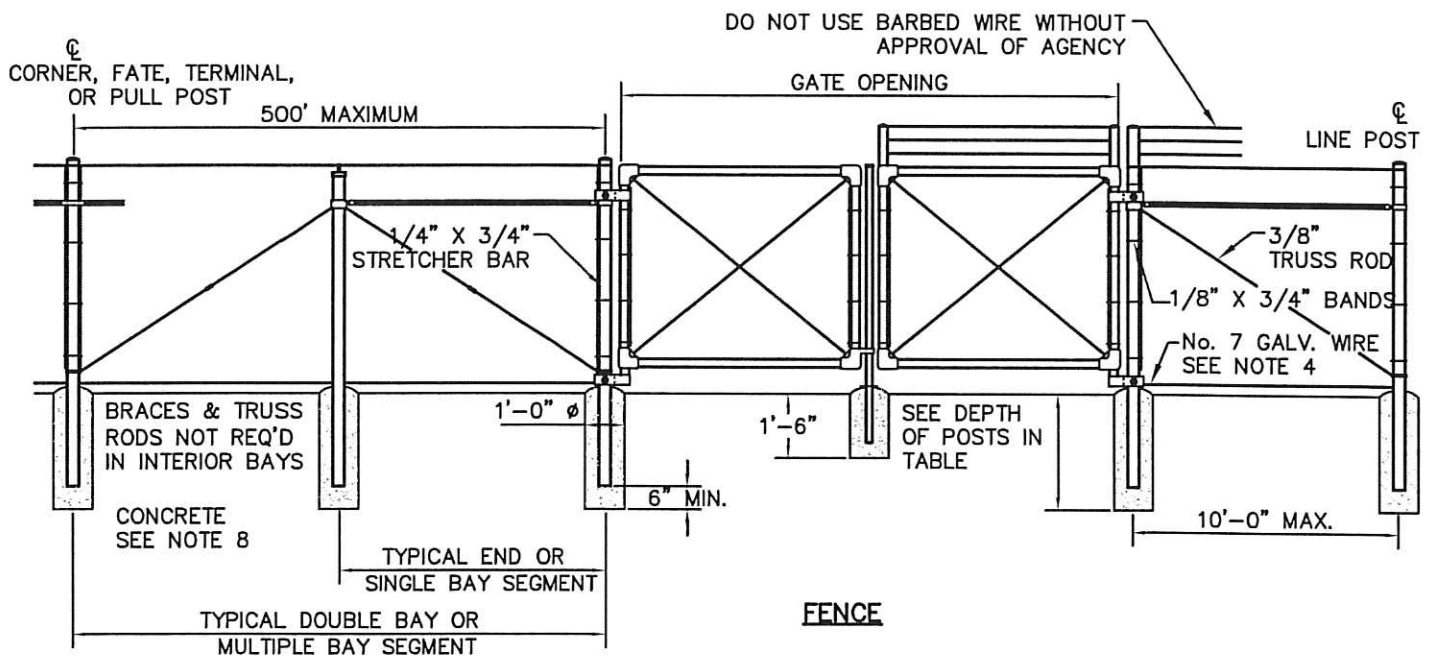
City of West Jordan, Utah



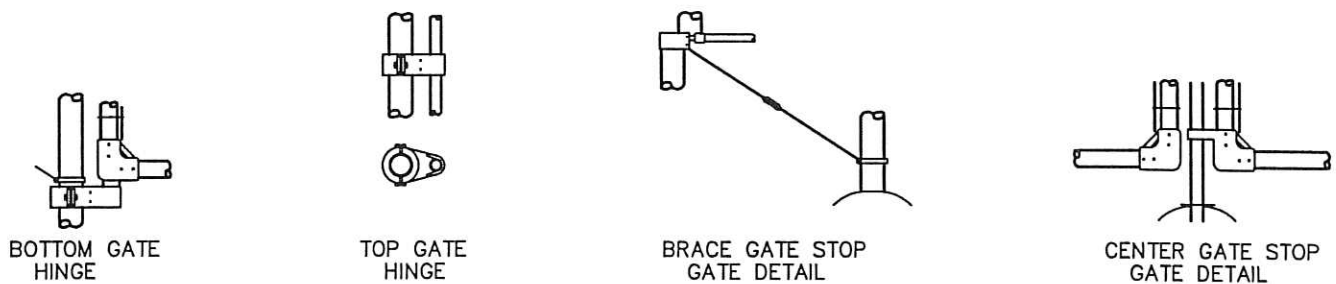
OPEN DRIVE APPROACH

STANDARD DRAWING

RD-130



FABRIC



DETAILS

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



CHAIN LINK FENCE

1 OF 2

STANDARD DRAWING

RD-135

GATE POSTS AND GATE FRAMES			
HEIGHT	FRAME	GATE OPENINGS	POST
UNDER 5 FEET	1-1/2"	SINGLE TO 6' OR DOUBLE TO 12'	2"
	1-1/2"	SINGLE OVER 6' TO 8' OR DOUBLE OVER 12' TO 16'	2-1/2"
	1-1/2"	SINGLE OVER 8' TO 12' OR DOUBLE OVER 16' TO 24'	3-1/2"
5 FEET AND OVER	1-1/2"	SINGLE TO 6' OR DOUBLE TO 12'	2-1/2"
	1-1/2"	SINGLE OVER 6' TO 13' OR DOUBLE OVER 12' TO 26'	3-1/2"
	1-1/2"	SINGLE OVER 13' TO 18' OR DOUBLE OVER 26' TO 36'	6"
	1-1/2"	SINGLE OVER 18' OR DOUBLE OVER 36'	8"

POSTS					
HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END CORNER, OR PULL POST	LENGTH OF LINE POST	POST	
				END, CORNER PULL POST	LINE POST
7'	3'	10'	9'-8"	2-1/2"	2"
6'	3'	9'	8'-8"	2-1/2"	2"
5'	3'	8'	7'-8"	2"	1-1/2"
4'	2'	6'	5'-8"	2"	1-1/2"

NOTES:

1. FENCES 5--FEET HIGH OR HIGHER: USE TWISTED AND BARBED SELVAGE, WITH WIRE TOP AND BOTTOM.
2. FENCES 5--FEET OR LESS: USE KNUCKLED SELVAGE WITH PIPE ON TOP, AND TWISTED AND BARBED SELVAGE WITH WIRE ON BOTTOM.
3. TRUSS RODS AND BRACES: NOT REQUIRED FOR FABRIC HEIGHTS LESS THAN 5--FEET.
4. TENSION WIRE: USE ZINC COATED, GALVANIZED, No. 7 GAGE SPRING COIL STEEL. SET WIRE AT 1" OVER NATURAL GROUND OR 6' OVER CONCRETE STRUCTURES.
5. PIPE: USE ASTM A 120, SCHEDULE 40, HOT DIPPED ZINC COATED STEEL.
6. POST SPACING: LOCATE POST AT EQUAL SPACING FOR EACH SEGMENT WITH MAXIMUM SPACING SPECIFIED BY SUPPLIER.
7. BARB WIRE ARM: FACE ARM TOWARDS EXTERIOR OF FENCED AREA.
8. CONCRETE: USE CLASS 4,000 PORTLAND CEMENT CONCRETE. APPLY A LIQUID MEMBRANE CURING COMPOUND OR USE AN ACCEPTABLE ALTERNATE CURING METHOD.

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah

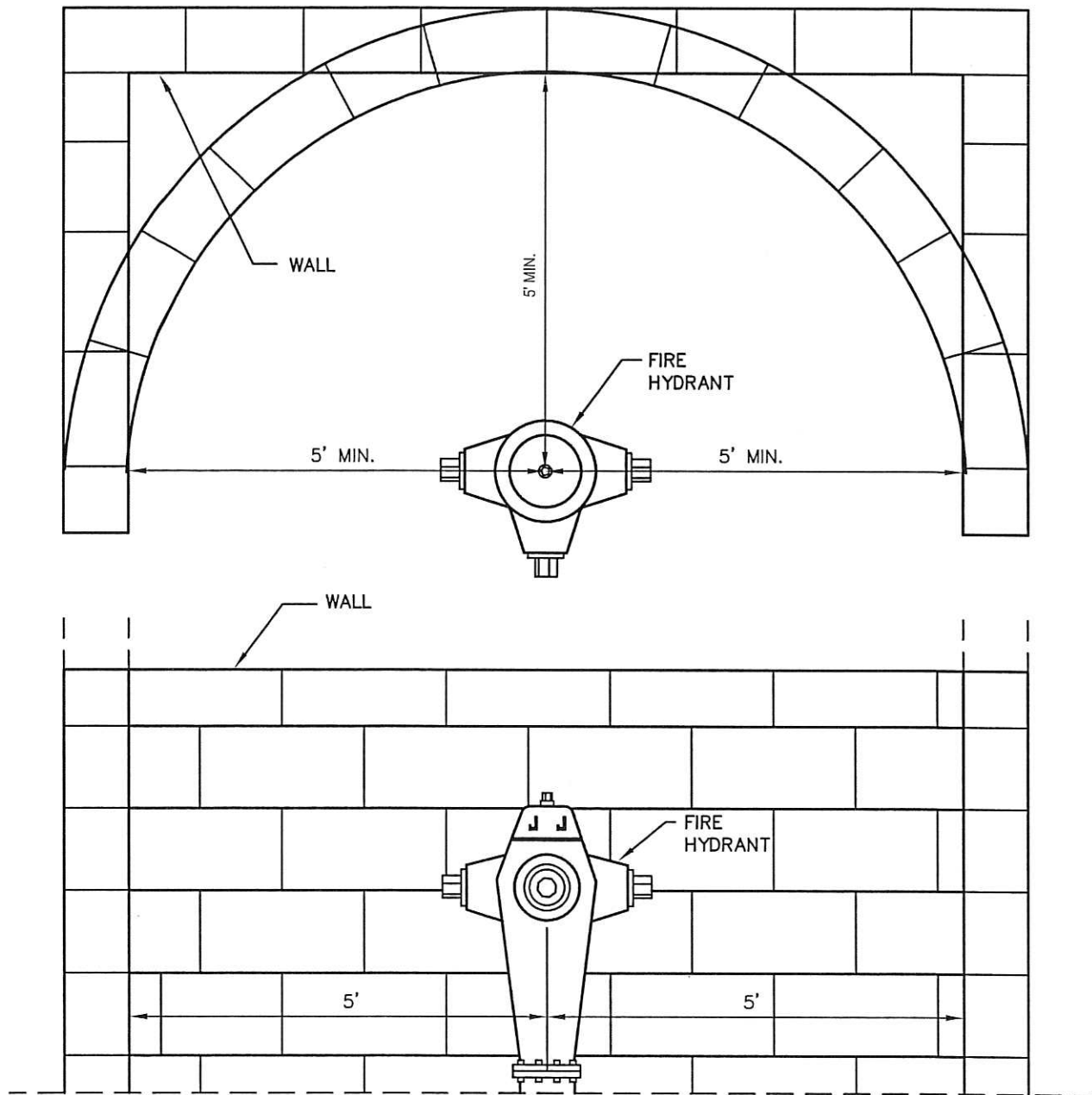


CHAIN LINK FENCE

2 OF 2

STANDARD DRAWING

RD-135



NOTES:

1. ALL RETAINING WALL EXCEEDING 48" IN HEIGHT REQUIRE BUILDING PERMIT.
2. PLANNED DEVELOPMENT (IE. RPD, HPD, DP, ETCT. PROJECTS MAY REQUIRE USE OF SPECIAL COLOR AND TEXTURE OF MATERIALS.

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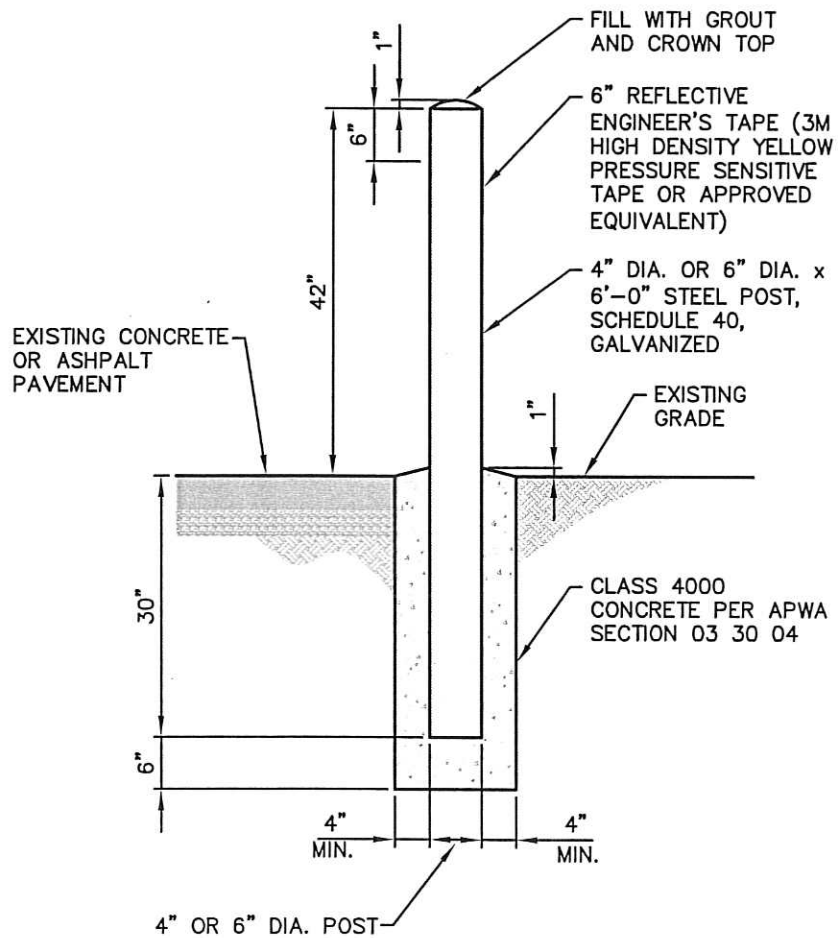
City of West Jordan, Utah



LOCATION OF FIRE HYDRANT WITHIN RETAINING WALL OR FENCE

STANDARD DRAWING

RD-155



DRAWING UPDATED AUGUST 2014

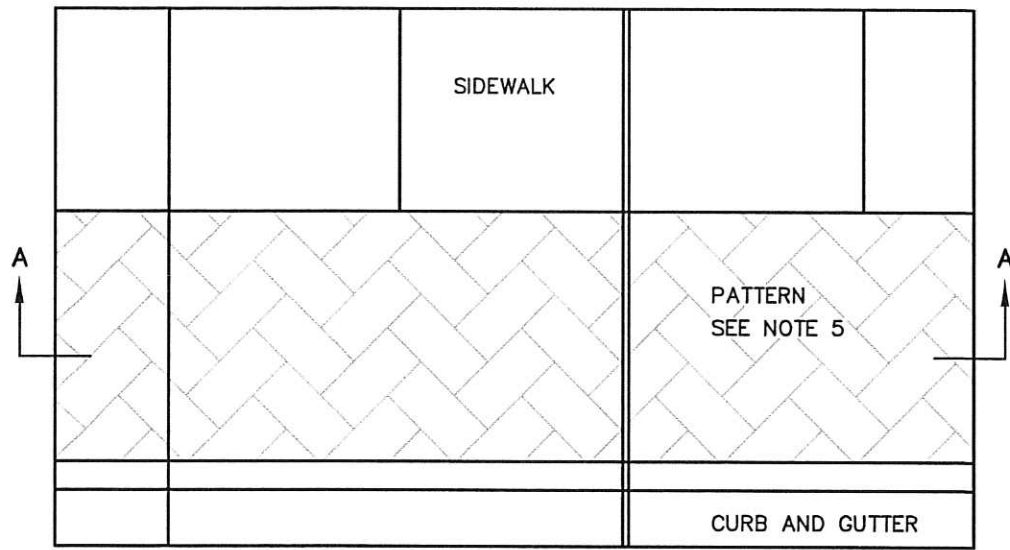
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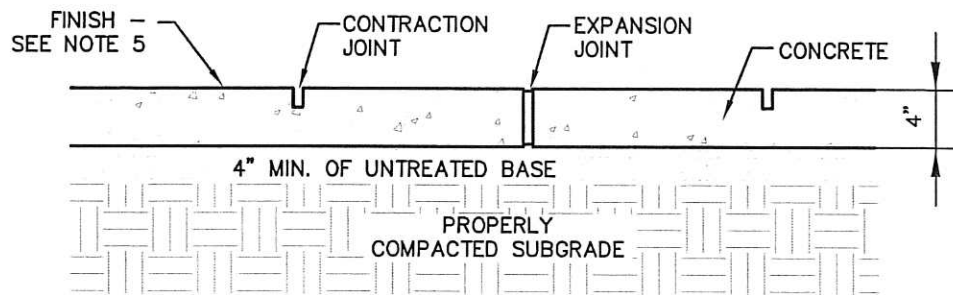
SAFETY POST

STANDARD DRAWING

RD-165



PLAN VIEW



SECTION A - A

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
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 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00.
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 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
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4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. PATTERN: PLACE UNIFORMLY OVER SURFACE USING RELEASE POWDER ON STAMPING MATS. STAMP TO A DEPTH OF 1/2 INCH. CLEAN FUGITIVE RELEASE POWDER FROM CONCRETE PRIOR TO APPLICATION OF CURING COMPOUND.
6. PATTERN DESIGN: ASHLAR CUT SLATE
7. COLORING: INTEGRAL COLORING WITH MEDIUM BROWN. NO REDS, WHITE, OR NATURAL LOOK. NO BROADCASTING OF COLOR ON THE SURFACE OF THE CONCRETE. APPLY COLOR TO CONCRETE MIX PER MANUFACTURE REQUIRED RATIO.

DRAWING UPDATED AUGUST 2014

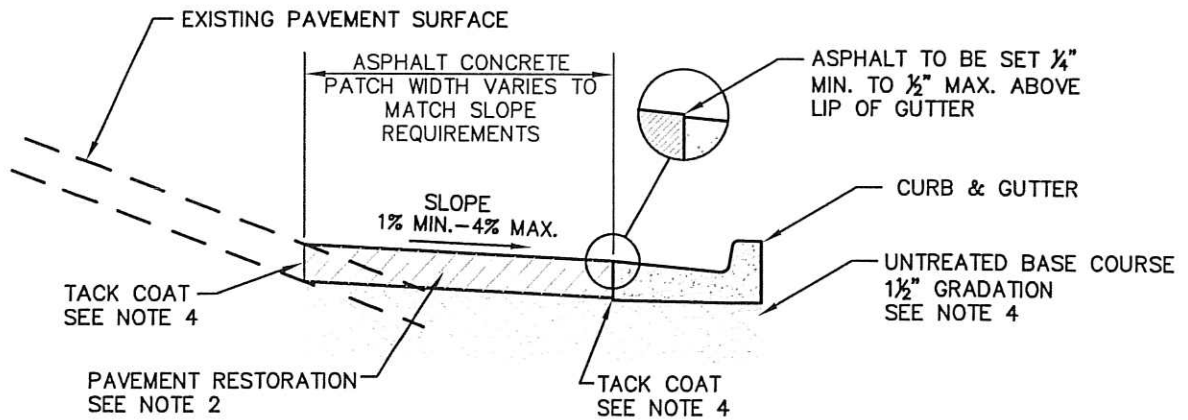
City of West Jordan, Utah



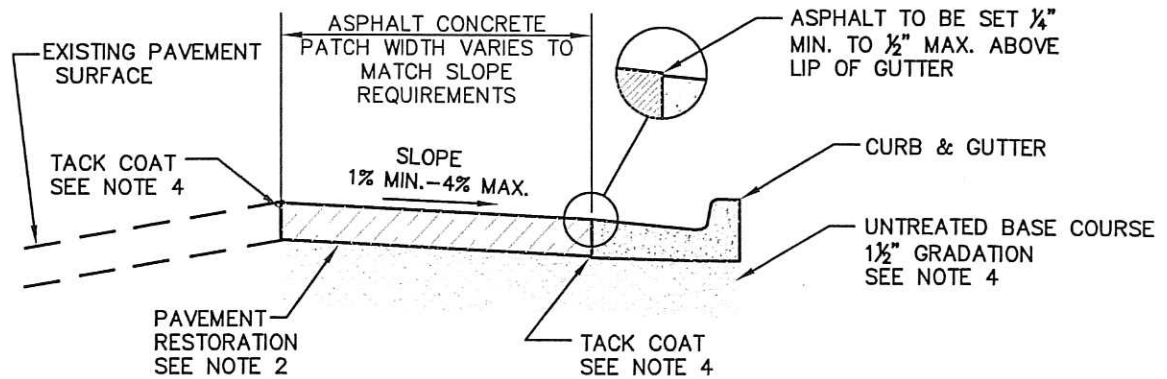
STANDARD CONCRETE PARK STRIP

STANDARD DRAWING

RD-140



CASE 1 - POSITIVE STREET TIE-IN



CASE 2 - NEGATIVE STREET TIE-IN

NOTES:

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO AN AVERAGE DRY DENSITY OF 95% OF OPTIMUM WITH NO DENSITY TEST RESULT LESS THAN 92% OF OPTIMUM. FOR CURB AND GUTTER WITH LESS THAN 0.5 PERCENT GRADE ($S=0.005$), INSTALL AT LEAST 8 INCHES OF AGGREGATE BASE.
2. ASPHALT CONCRETE RESTORATION: 4" MINIMUM BUT MUST MATCH EXISTING + 1" THICKNESS.
3. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. SAW CUT JOINT IF EXISTING PAVEMENT EXCEEDS 3 INCHES IN THICKNESS, OR IF PORTLAND CEMENT CONCRETE UNDERLIES ASPHALT CONCRETE PAVEMENT.
4. TACK COAT: TACK ALL VERTICAL SURFACES ADJACENT TO THE PATCH

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah

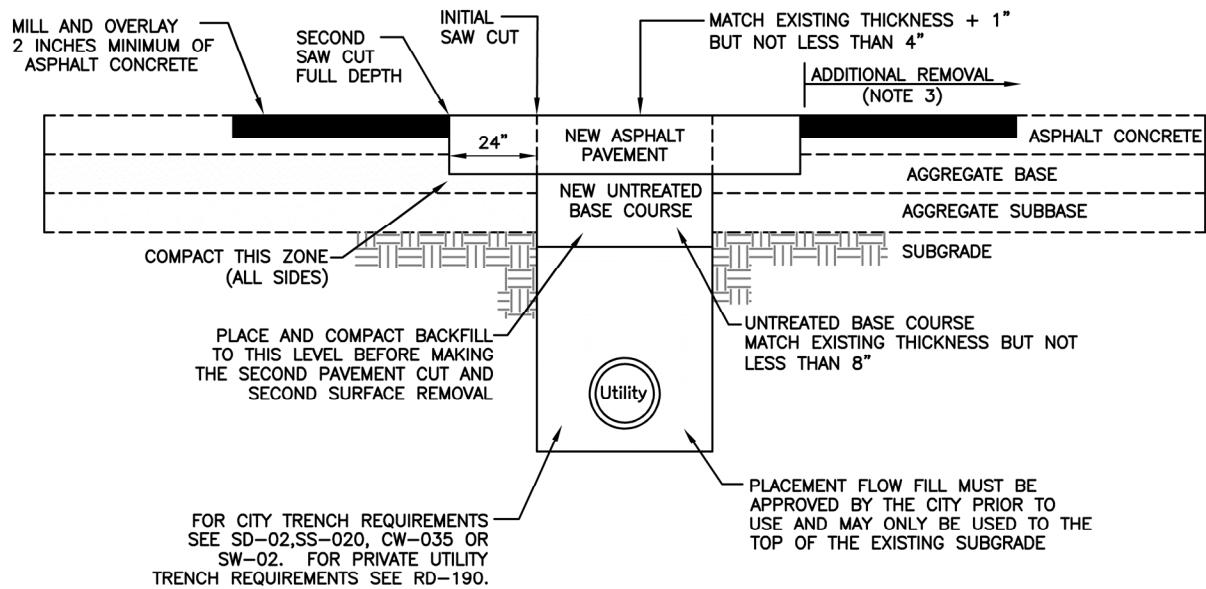


ASPHALT PAVEMENT TIE-IN

STANDARD DRAWING

RD-170

ASPHALT TRENCH RESTORATION



ASPHALT TRENCH RESTORATION CONSTRUCTION NOTES

1. ENCROACHMENT PERMIT: All work inside West Jordan right of way requires an approved encroachment permit. Copy of permit shall be held on-site.
2. INSPECTION REQUIREMENTS: CITY must be notified for the following inspection appointments 48 hours in advance:
 - A. Nose-on or tap.
 - B. Backfill and compaction.
 - C. Road base compaction.
 - D. Preparation of surface for asphalt.
 - E. Asphalt placement and compaction.

Surface restoration shall be done within 48 hours of excavation. Unless otherwise approved by the CITY. Traffic shall not be placed on untreated base unless approved by the CITY. Contractor shall cover all unattended excavations with steel plates.

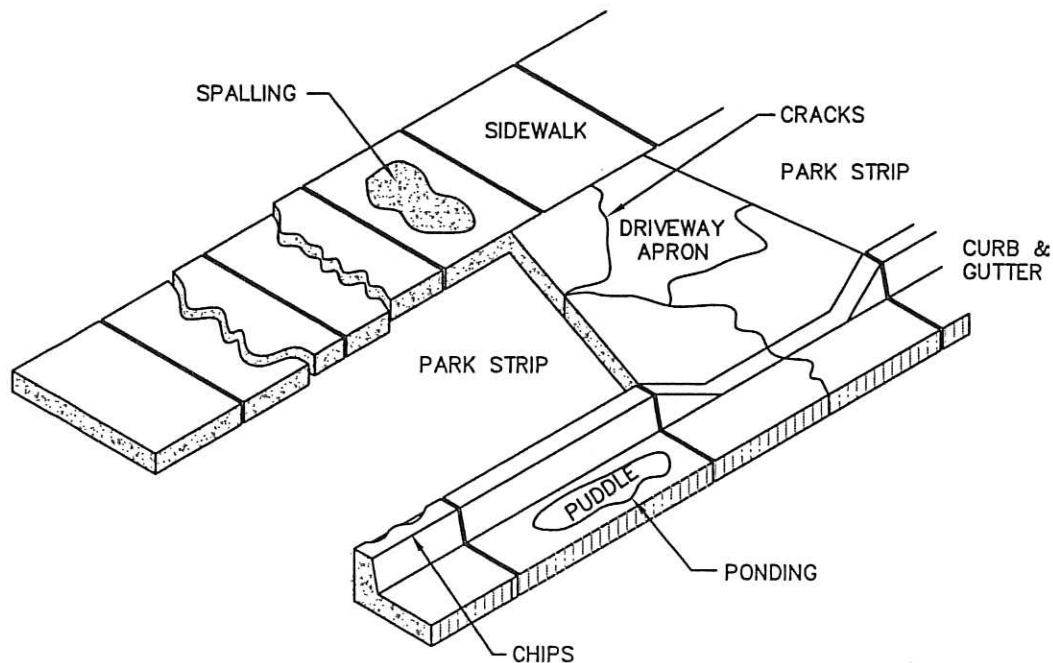
CONTRACTOR shall provide the CITY with a copy of the density testing results prior to asphalt placement.

3. ADDITIONAL PAVEMENT REMOVAL:
 - A. PARALLEL TRENCH : Collector or Arterial Streets – Remove additional pavement to a painted lane stripe, a lip of gutter or an edge of the pavement. Residential Streets – Remove additional pavement from the lip of gutter to the center of the street. The City reserves the right to require additional pavement restoration if deemed appropriate to restore the roadway to the original condition.
 - B. PERPENDICULAR TRENCH: Repair trench as described in the standard plan. Mill and overlay pavement 10 feet each way from the edge of the second saw cut. CONTRACTOR shall combine multiple trench cuts into one restoration patch. The CITY reserves the right to require additional pavement restoration greater than 10 feet if deemed appropriate to restore the roadway to the original condition.
4. NEW UNTREATED BASE COURSE: Provide aggregate class "A" untreated base course material specified in APWA Section 32 11 23. Do not use gravel or sewer rock. Place new material per APWA 32 05 10. Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent in lifts not exceeding 6 inches thick after compaction.
5. TACK COAT: Place as specified in APWA Section 32 12 14. Provide full tack coat coverage on all vertical surfaces.
6. ASPHALT PAVEMENT: Use PG-64-28 DM 1/2 hot mix asphalt concrete as specified in APWA Section 33 12 05. RAP shall be no more than 15 percent of the mix. Install per APWA Section 32 12 16.13 in maximum 3 inch lifts. Compact to 94 percent of ASTM D2041 (Rice Method) plus or minus two percent. Asphalt placed after April 15 and prior to March 1 will be considered temporary and must be replaced after March 1.
7. PATCH REPAIRS: Repair the following conditions during the correction period.
 - A. Pavement surface distortion exceeds 1/4 inch deviation in 10 feet. Repair Option: Plane off surface distortions. Coat with an emulsion that complies with APWA 32 12 03 and provide sand blotter.
 - B. Cracks 1/4 wide and 1 foot long occur more often than 1 in 10 square feet. Repair option: Crack Seal per APWA 32 01 17.
 - C. Asphalt raveling is greater than 1 square foot in 10 square feet. Repair option: Mill and inlay.

NOTES:

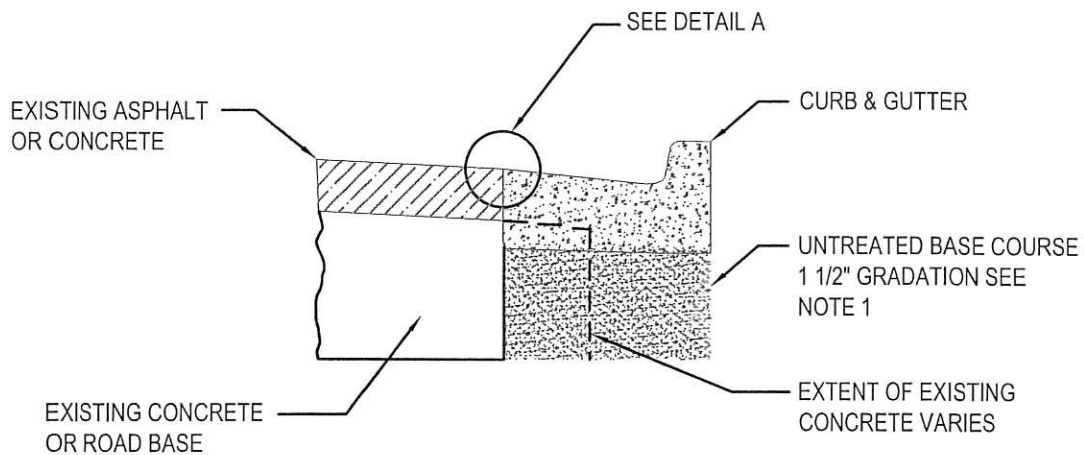
1. CURB & GUTTER:

- A. CRACKS: CRACKS WHICH INDICATE STRUCTURAL FAILURE OR SETTLING, OR WHICH RESULT IN VERTICAL DISPLACEMENT ARE CAUSE FOR REJECTION. CRACKS WHICH ARE CLEARLY SHRINKAGE CRACKS WHICH HAVE NOT OPENED UP, AND WHICH DO NOT IMPEDE FLOW OF WATER ARE NOT CAUSE FOR REMOVAL. CRACKS WHICH EXHIBIT MULTIPLE TRACES, OR WHICH RESULT IN CHIPPING OR FLAKING ADJACENT TO THE CRACK, ARE NOT CONSIDERED SHRINKAGE CRACKS.
- B. SPALLING: MINOR, OCCASIONAL SPALLING IS NOT CAUSE FOR REJECTION, IF SPALLING OCCURS OVER MORE THAN 15% OF A SECTION, THE ENTIRE SECTION SHOULD BE REPLACED.
- C. PONDING: STANDING WATER MORE THAN 1/4" DEEP REQUIRES CORRECTION. STANDING WATER MORE THAN 3/8" DEEP REQUIRES REPLACEMENT OF SUFFICIENT CURB AND GUTTER TO CORRECT THE PROBLEM.
- D. CHIPS: CHIPS WHICH DON'T AFFECT THE STRUCTURAL INTEGRITY OF THE SECTION OR IMPED THE NORMAL FLOW OF WATER MAY USUALLY BE LEFT. GENERALLY, CHIPS ON THE BACK OF THE CURB LESS THAN 1 - 1/2" IN WIDTH OR DEPTH, WHICH DON'T COMPRISE MORE THAN 25% OF THE LENGTH OF A SECTION MAY BE LEFT. CHIPS IN THE APRON, AWAY FROM THE FLOW LINE MAY USUALLY BE LEFT, PROVIDED THEY DON'T DIRECT WATER INTO THE SUBGRADE. AN OCCASIONAL, MINOR CHIP IN THE FLOWLINE IS NOT NECESSARILY CAUSE FOR REJECTION.
- E. COMBINATIONS: WHILE ANY OF THE ABOVE ITEMS MAY NOT RESULT IN REJECTION A SINGLE SECTION WHICH EXHIBITS MULTIPLE SUCH ITEMS MAY BE REJECTED.
2. SIDEWALKS: SIMILAR TO CURB AND GUTTER, EXCEPT THAT CHIPS OR SERIOUS SPALLS WHICH, IN THE OPINION OF THE INSPECTOR MAY CAUSE A TRIPPING HAZARD, WILL REQUIRE REPLACEMENT OF THE SECTION. CHIPS WHICH EXTEND LESS THAN 1-1/2" INTO THE SIDEWALK FROM THE EDGE ARE GENERALLY NOT CAUSE FOR REJECTION, UNLESS SUCH CHIPS OCCUR OVER MORE THAN 25% OF THE LENGTH OF THE SECTION. SIDEWALKS WHICH EXTEND MORE THAN 50 FEET WITHOUT AN EXPANSION JOINT WILL REQUIRE REMOVAL AND REPLACEMENT OF A SECTION; REPLACEMENT SHALL INCLUDE EXPANSION JOINT T.
3. CONCRETE PATCHING IS NOT PERMITTED. ALL DEFECTIVE CONCRETE TO BE REMOVED AND REPLACED.

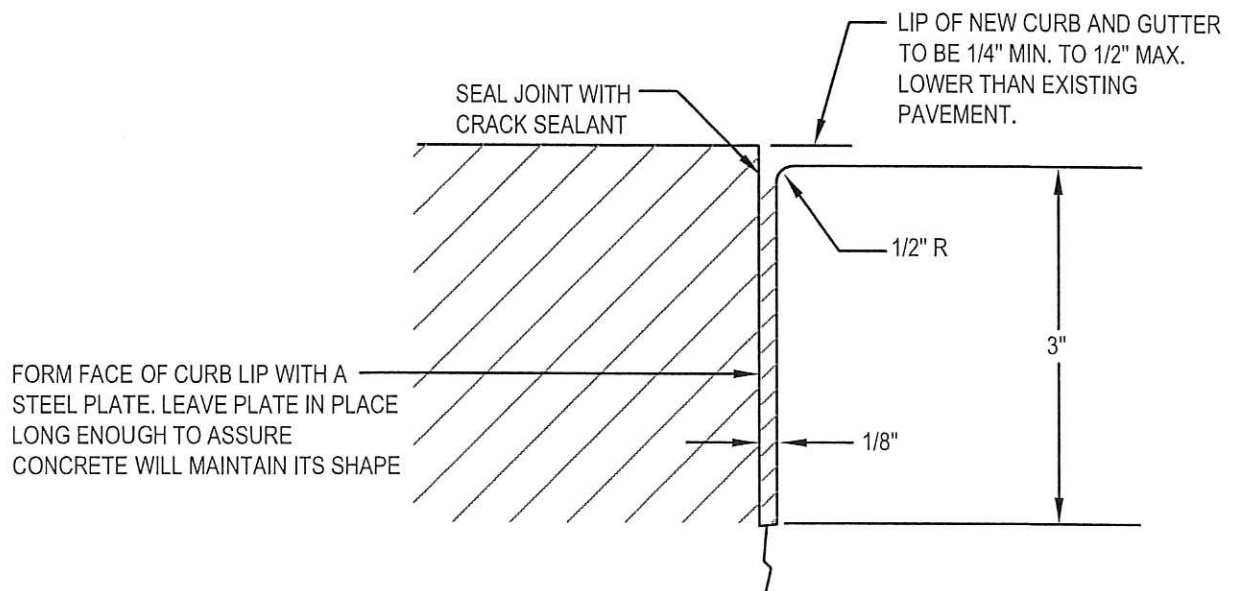


DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



SECTION



DETAIL A

NOTES:

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM DRY DENSITY OF 95% OF OPTIMUM.
2. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT PAVEMENT SURFACES. SAW CUT JOINT IF EXISTING PAVEMENT EXCEEDS 3 INCHES IN THICKNESS, OR IF CONCRETE UNDERLIES ASPHALT PAVEMENT.
3. ROAD BASE THICKNESS: MATCH EXISTING ROAD BASE OR A MINIMUM OF 8 INCHES OF UNTREATED BASE COURSE MATERIAL

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



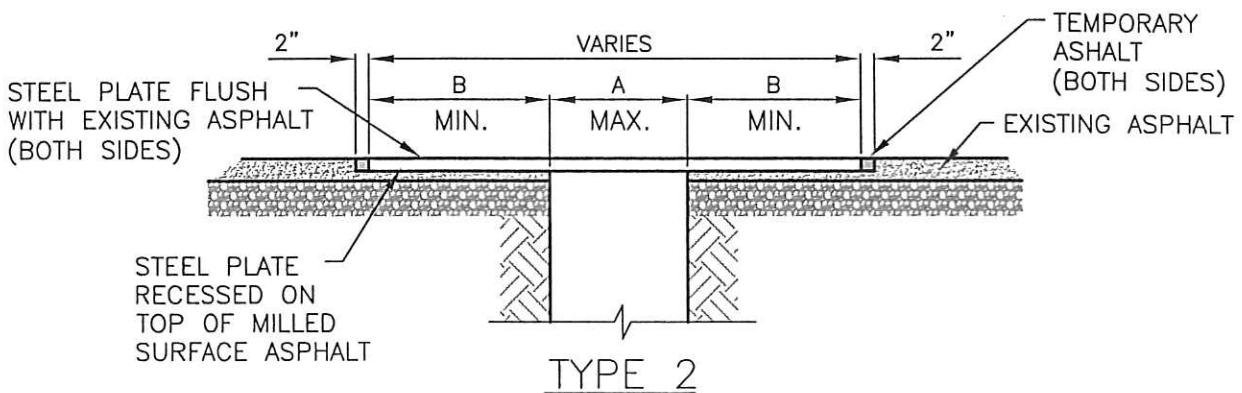
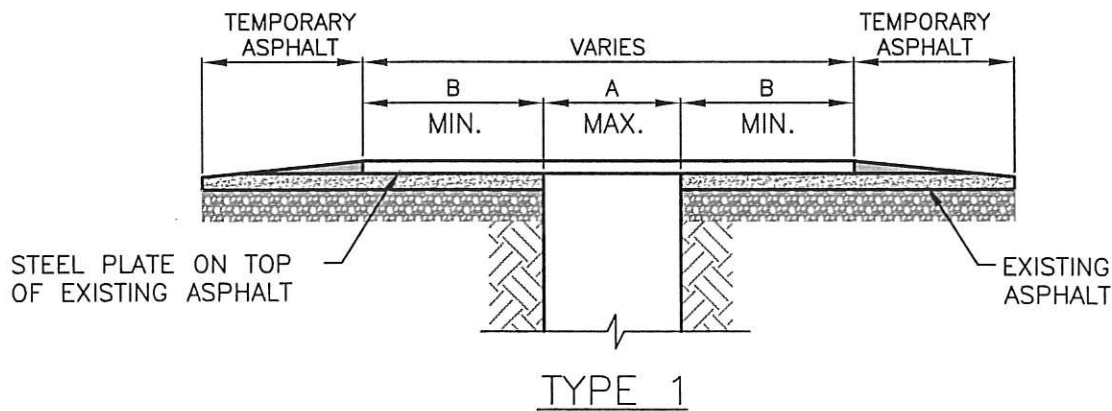
REMOVE AND REPLACE CURB & GUTTER WITHOUT PAVEMENT TIE-IN

STANDARD DRAWING

RD-185

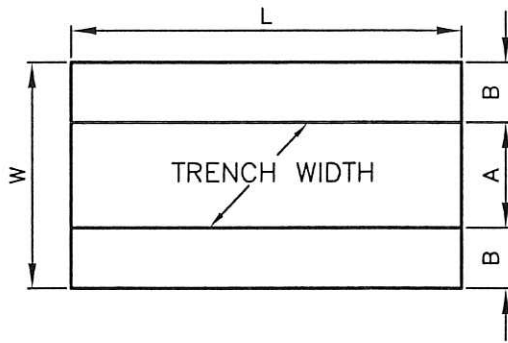
NOTES:

1. USE TYPE 1 OR TYPE 2 DETERMINED BY CITY INSPECTOR(S).
2. FOR TYPE 2 PLATE INSTALLATION, THE STEEL PLATE SHALL BE RECESSED BY MILLING INTO THE EXISTING ASPHALT TO SET FLUSH WITH THE SURFACE OF THE EXISTING ASPHALT. FULL DEPTH CUTTING OF PAVEMENT SECTION OUTSIDE OF TRENCH IS NOT PERMITTED. MILLING DEPTH SHALL MATCH THICKNESS OF PLATE. THE GAP BETWEEN THE EDGE OF THE PLATE AND THE ADJACENT EXISTING ASPHALT PAVEMENT MUST BE FILLED WITH TEMPORARY ASPHALT.
3. TRENCH WIDTHS ARE BASED ON AN ANALYSIS PER THE 14TH EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES BY AASHTO. AN ASSUMED AXLE LOADING OF 12 TONS WITH A 30% IMPACT FACTOR WAS USED. THE AXLE LENGTH IS 6 FEET. THEREFORE THE NUMBER OF WHEELS CARRIED BY A PLATE DEPENDS ON THE ROADWAY WIDTH.
4. STEEL PLATE MUST BE ABLE TO WITHSTAND H-20 TRAFFIC LOADINGS WITHOUT ANY MOVEMENTS.
5. PLATES SHALL BE FABRICATED FROM ASTM A36 STEEL (MIN.)
6. PLATES SHALL BE SECURED FROM LATERAL MOVEMENT AND VERTICAL VIBRATION (ASSOCIATED NOISE) WHILE IN USE BY TEMPORARY ASPHALT (COLD MIX.)
7. APPROPRIATE SIGNAGE REQUIRED

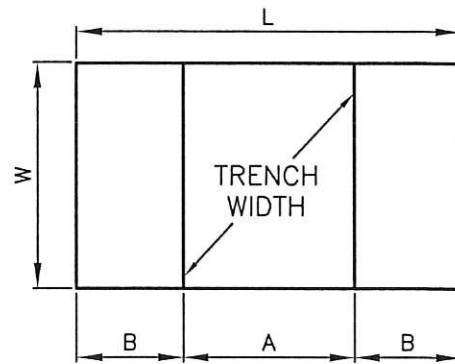


DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



LONGITUDINAL
STEEL PLATE



TRANSVERSE
STEEL PLATE

PLATE SIZE						
LONGITUDINAL					TRANSVERSE	
(A)	(B)	THICKNESS	(W)	(L)	(A)	(B)
12"	18"	1"	4'	8'	58"	19"
12"	18"	1"	4'	10'	58"	31"
24"	18"	1"	5'	10'	70"	25"
36"	18"	1"	6'	10'	44"	38"
48"	18"	1"	7'	10'	52"	34"
60"	18"	1"	8'	10'	58"	31"
12"	18"	1-1/4"	4'	15'	88"	47"
24"	18"	1-1/4"	5'	12'	104"	20"
36"	18"	1-1/4"	6'	12'	66"	39"
36"	18"	1-1/4"	6'	16'	66"	63"
48"	18"	1-1/4"	7'	12'	76"	33"
48"	18"	1-1/4"	7'	16'	76"	58"
60"	18"	1-1/4"	8'	12'	86"	29"
60"	18"	1-1/4"	8'	15'	86"	47"
60"	18"	1-1/4"	8'	16'	86"	63"
60"	18"	1-1/4"	8'	20'	86"	77"
60"	18"	1-3/8"	8'	20'	102"	69"

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



STANDARD TRENCH PLATING DETAIL

STANDARD DRAWING

RD-195

1. SELECT FILL:

A. Use untreated base coarse grade 1 or grade 3/4 per APWA Section 32 11 23. Use of sewer rock or recycled aggregate requires ENGINEER's written approval.

B. Install and compact all backfill material per APWA Section 32 05 10.

2. CONCRETE: Class 4000 per APWA Section 03 30 04.

A. If necessary, provide concrete which achieves design strength in 72 hours (3 days). Use caution, however, as spider cracks develop if air temperature exceeds 90 degrees F.

B. Place concrete per APWA Section 03 30 10.

C. Provide 1/2 inch radius on all exposed concrete edges unless otherwise shown.

D. Apply a sealing/curing compound per APWA Section 03 39 00.

3. EXPANSION JOINTS: Provide full depth 1/2 inch thick F1 joint filler material per APWA Section 32 13 73. Set top of filler flush with surface of concrete. Place joints every 50 feet.

4. CONTRACTION JOINTS: Make contraction joints vertical, at least 1/8 inch wide, and 1/4 slab thickness if the slab is greater than 8 inches thick. Place joints to create square concrete panels.

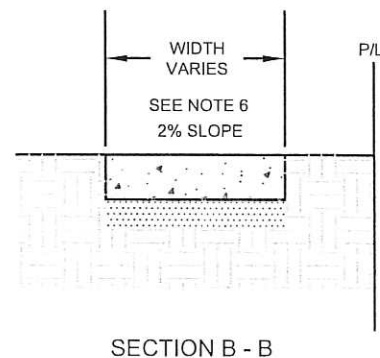
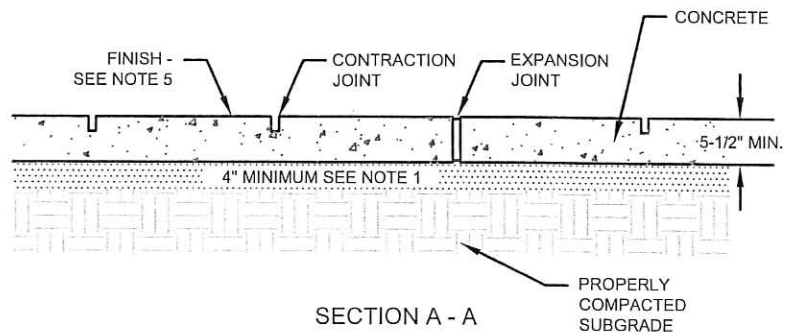
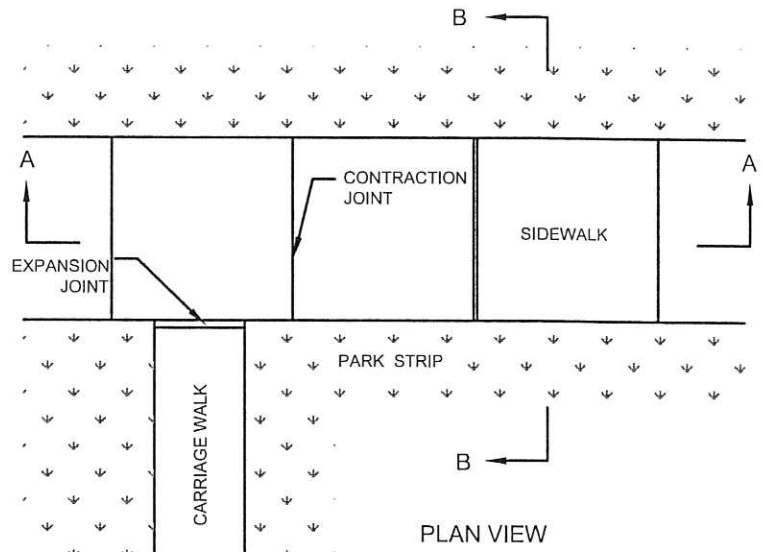
5. FINISH: Fine hair broom on longitudinal grades under 6% and rough hair broom grades over 6%.

6. WIDTH OF SIDEWALK:

A. 5 feet min. in all areas, and 6' or greater when adjacent to curb

B. Width varies when adjacent to curb and gutter. (Dowels required @ 5' intervals when sidewalk is adjacent to curb.)

7. Parkstrip area and area behind sidewalk must be back filled within 2" of top grade of sidewalk.



DRAWING UPDATED AUGUST 2014

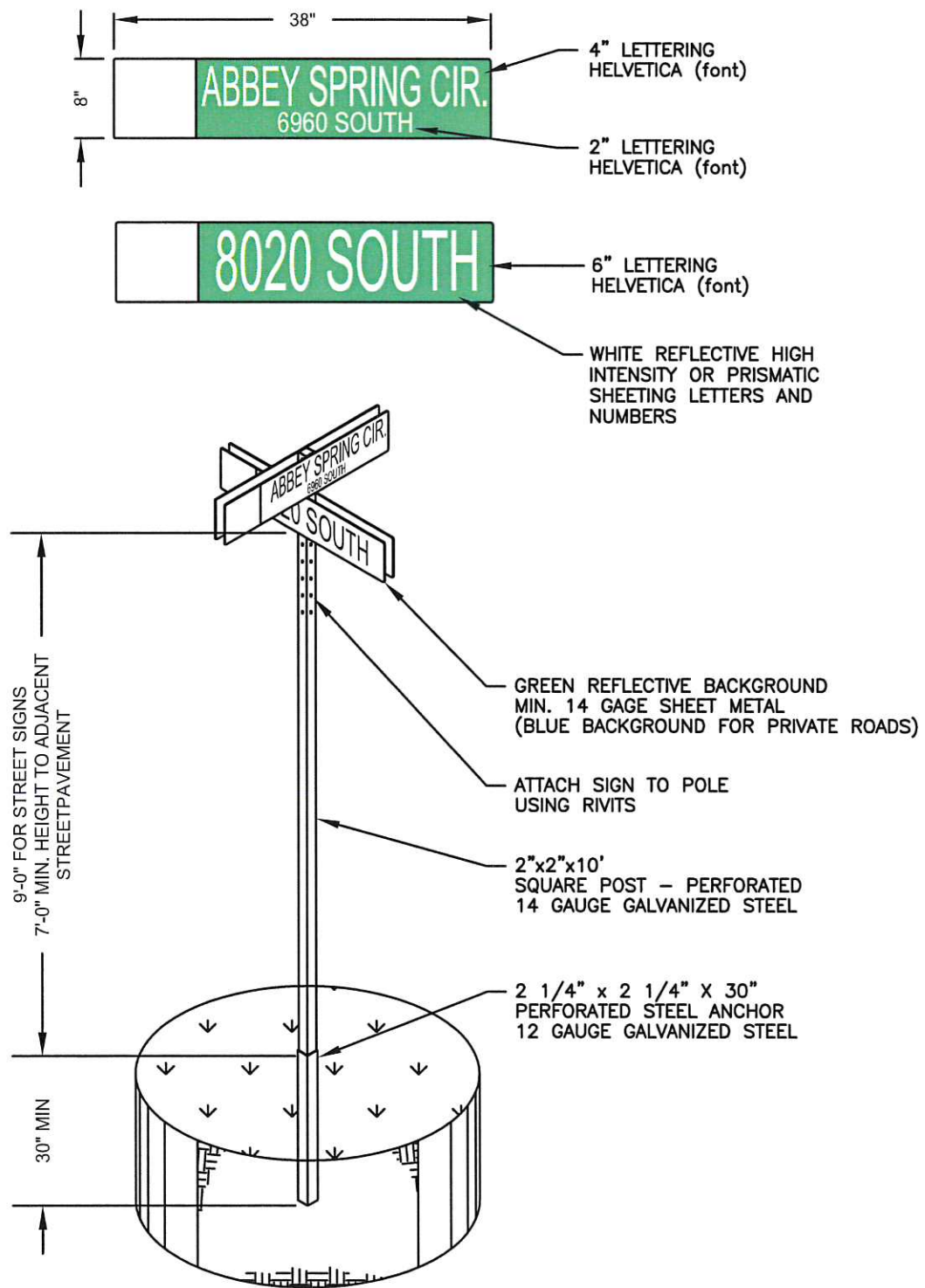
City of West Jordan, Utah



STANDARD SIDEWALK

STANDARD DRAWING

RD-200



NO STOP SIGNS ALLOWED ON STREET SIGN

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



STREET SIGN

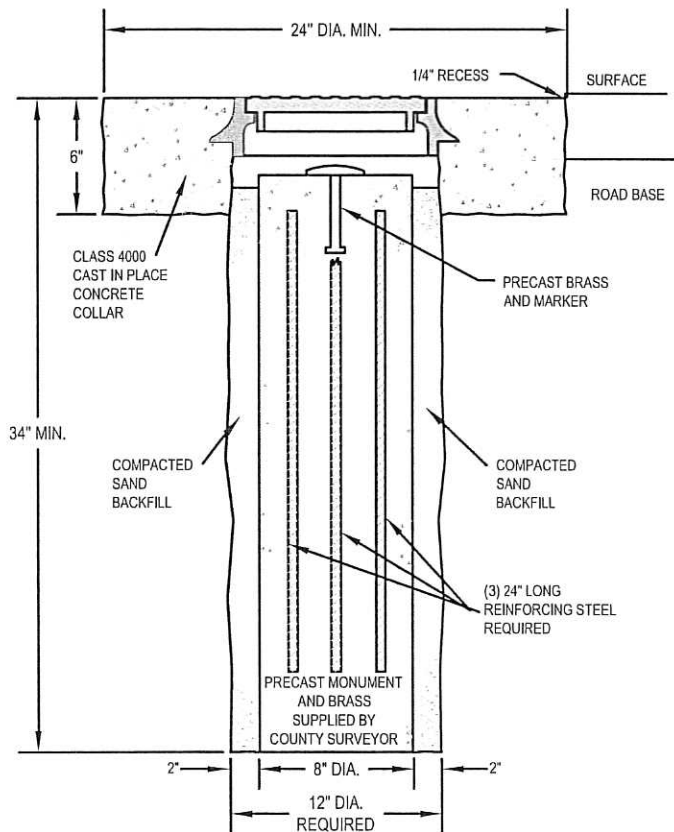
STANDARD DRAWING

RD-250



CAST IRON TO CONFORM TO ASTM
A-48, CLASS 35B
H-20 WHEEL LOADING
EST. WEIGHT: 43 LBS.

BRASS

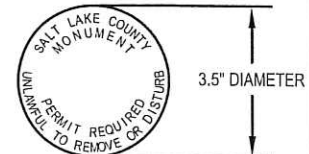


COUNTY STREET MONUMENT
SECTION

NOTES:

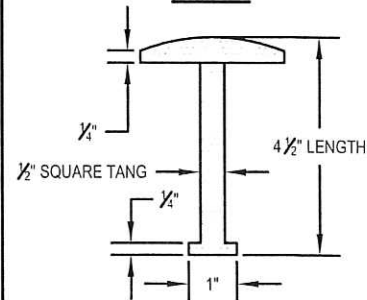
1. MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH APWA MANUAL OF STANDARD SPECIFICATIONS (2002 EDITION), AND SUPPLEMENTS THERETO WHICH ARE IN EFFECT AT THE DATE OF THIS REQUEST.
2. COUNTY MONUMENT COVER, FRAME AND PRECAST BRASS AND MARKER BASE SHALL BE FURNISHED THE COUNTY AS PROVIDED IN THE PERMITTING PROCESS
3. COVER, FRAME, RISER AND PRE CAST BRASS AND MARKER BASE CAN BE OBTAINED AT PUBLIC WORKS OPERATION 7125 SOUTH 600 WEST, MIDVALE UTAH 84047. THE DEVELOPER, CONTRACTOR, OR AGENT SHALL BE RESPONSIBLE FOR THE TRANSPORTATION OF THE ALL MONUMENTS AND INCIDENTAL ITEMS REQUIRED TO COMPLETE THE MONUMENT INSTALLATION,
4. THE COUNTY SURVEYOR SHALL CHECK MONUMENT POINT AND STRADDLES BEFORE MONUMENTS CAN BE INSTALLED.
5. REINFORCING STEEL USED IN COUNTY SURVEY MONUMENTS SHALL BE NO. 4 BARS.
6. THE COUNTY SURVEYOR SHALL CROSS BRASS MAKER AFTER INSTALLATION OF SURVEY MONUMENT.
7. CONTRACTOR SHALL ALLOW THE COUNTY SURVEYOR AN OPPORTUNITY TO SALVAGE ALL EXISTING MONUMENTS, SPECIFICALLY, RINGS RISERS, LIDS AND BRASS MAKERS.
8. FIELD INSPECTION BY GOVERNING ENTITY REQUIRED PRIOR TO INSTALLATION OF MONUMENT.
9. THE NON-USE OF ANY MATERIALS RECEIVED FROM SALT LAKE COUNTY SHALL NOT CONSTITUTE A CLAIM OF CREDIT.
10. DEPVELOPER/AGENT SHALL PROVIDE COPIES OF APPROVED AND RECORDED SUBDIVISION PLATS, STREET DEDICATIONS, OR AFFIDAVIT OF CORRECTIONS SHOWING COORDINATES OF NEW MONUMENTS AND THEIR RELATIONSHIP TO MONUMENT CONTROL.

NOTE:
POUR IN PLACE MONUMENTS MAY BE ALLOWED ON A CASE BY
CASE BASIS. SUBJECT TO PRIOR APPROVAL BY THE SALT LAKE
COUNTY SURVEYOR.



3.5" DIAMETER

CAP PLAN



CAP SECTION

DRAWING DATE AUGUST 2014

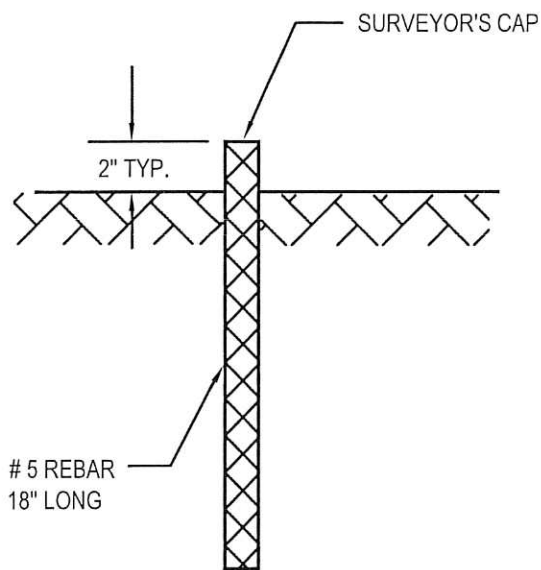
City of West Jordan, Utah



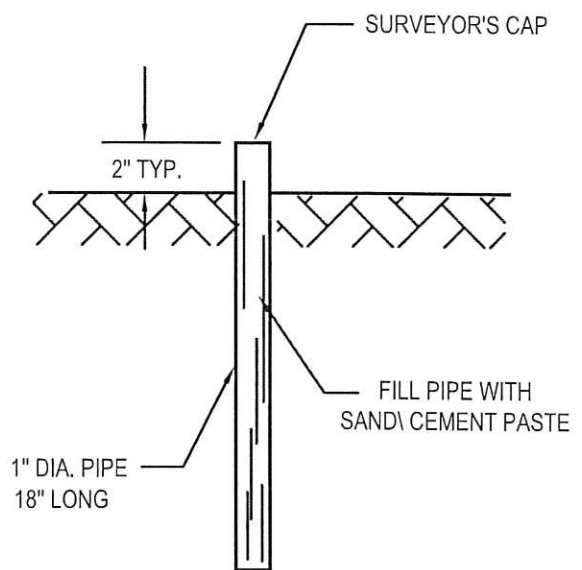
SURVEY STREET MONUMENT

STANDARD DRAWING

RD-260

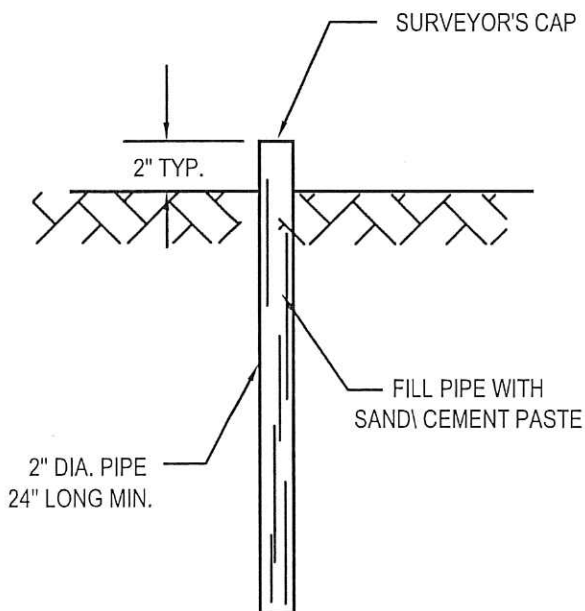


TYPE A

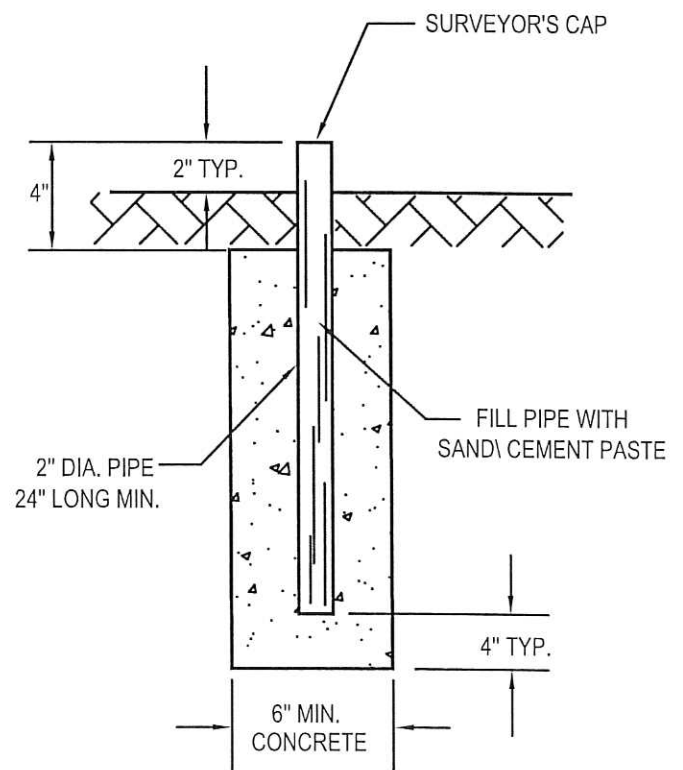


TYPE B

CORNER MARKERS



TYPE C



TYPE D

BOUNDARY MARKERS

DRAWING UPDATED AUGUST 2014

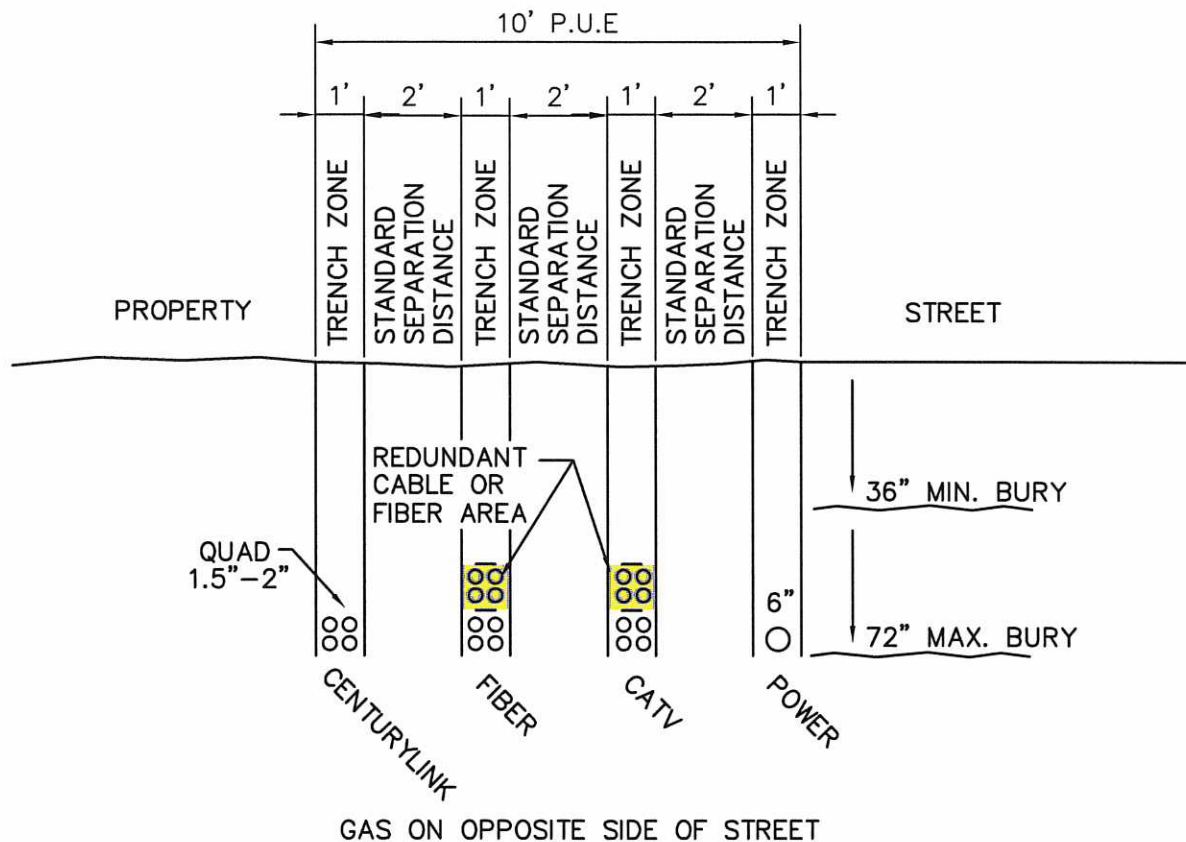
City of West Jordan, Utah



**SURVEY MONUMENTATION CORNER
AND BOUNDARY MARKERS**

STANDARD DRAWING

RD-265



NOTES:

1. FIRST PIPE IN MUST ACCOMMODATE FUTURE VERTICAL STACKING FOR ANY EXPANSIONS FROM THE SAME COMPANY (BURY AT 72" REQUIRED).
2. 36" MINIMUM BURY DEPTH REQUIRED.
3. 6" CONDUIT RUNS MAXIMUM (LARGER SIZES MUST ACQUIRE THEIR OWN EASEMENTS).
4. VERTICAL STACKING REQUIRED W/IN 1' COMPANY/CATEGORY ENVELOPE (MULTIPLE FIBER CARRIERS MUST GO IN SAME VERTICAL STACK OR APPROACH OTHER COMPANIES FOR SHARING OF THEIR VERTICAL ENVELOPE).
5. ANY EXCESS CAPACITY MAY BE LEASED TO OTHER COMPANIES.
6. 72' MAXIMUM BURY UNLESS APPROVED IN WRITING BY CITY ENGINEER.PS
7. FLOWABLE FILL IS NOT ALLOWED IN P.U.E.
8. LINES SHALL BE PLACED ON THE SAME SIDE OF STREET ACCORDING TO THIS DIAGRAM. "REDUNDANT" CONDUIT MAYBE RUN IN ANOTHER TRENCH WITH AGREEMENT FROM THE COMPANY RELATED TO THE NEXT OR SIMILAR 1 FOOT TRENCH ZONE.
9. MINIMUM SEPARATION FROM CITY UTILITIES, 4' HORIZONTAL EDGE TO EDGE AND 18" VERTICAL, 10' HORIZONTAL FOR SEWER.

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



NEW INSTALLATION -SUBDIVISIONS DUCT BANK STANDARD 4x1' CONDUIT RUNS 10' P.U.E.

PLAN
RD-270