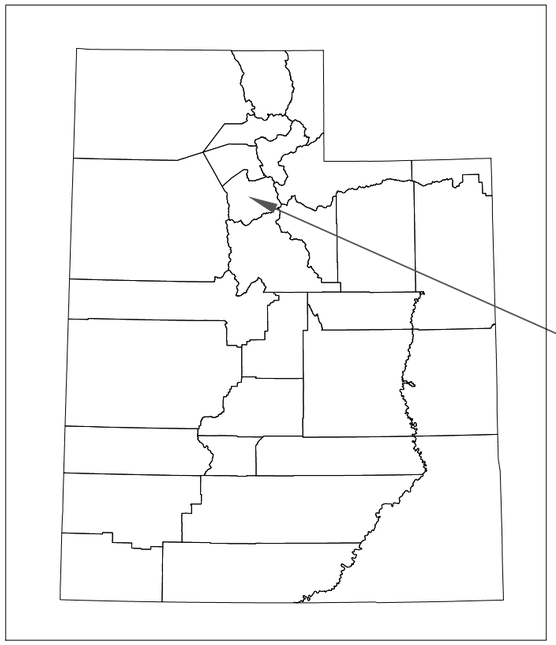
2021 South Salt Lake City 900 W 2100 S to 3300 S Catch Basin Grate Replacement (East Side)



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DATE December 8, 2021

SOUTH SALT LAKE ENGINEERING DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

COVER PAGE

SHEET C 0.0
DATE December 10, 2021

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE LATEST EDITION OF THE MANUAL OF STANDARD PLANS AND MANUAL OF STANDARD SPECIFICATIONS PREPARED BY THE UTAH CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION UNLESS OTHERWISE NOTED. SUPPLEMENTAL SPECS REPLACE APWA SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SOUTH SALT LAKE ENGINEERING INSPECTOR AND THE DEPARTMENT OF TRANSPORTATION INSPECTOR.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SOUTH SALT LAKE ENGINEERING INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

6. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, ITS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEERING IMMEDIATELY.

7. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

8. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (CITY, COUNTY, OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

11. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.

12. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

13. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.

14. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, APPROVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 10:00 PM EVERYDAY UNLESS OTHERWISE APPROVED BY THE CITY AND THE SALT LAKE COUNTY DEPARTMENT OF HEALTH.

15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL TEMPORARY POWER, TELEPHONE AND WATER THE THE SITE, PAYING ALL FEES EXCLUDING TAP FEES AND SYSTEM DEVELOPMENT FEES, REFERRING TO ARCHITECTURAL PLANS FOR THE EXACT LOCATION AND DIMENSIONS OF BUILDING EXITS, RAMPS, TRUCK DOCKS, AND UTILITY ENTRANCE LOCATIONS.

17. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS AND TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.

18. CONTRACTOR TO MAINTAIN ALL SHRUB AND GROUND COVER AREAS FREE FROM WEEDS AND UNDESIRABLE VEGETATION THROUGH MAINTENANCE PERIOD.

19. THE CONTRACTOR SHALL INSTALL BEST MANAGEMENT PLANS (BMPS) AND SUBMIT A BMP SITE PLAN TO THE CITY OF SOUTH SALT LAKE PRIOR TO COMMENCING CONSTRUCTION AND CONFORM TO THE EROSION CONTROL GENERAL NOTES.

STRUCTURAL NOTES

1. THE SPECIFICATIONS AND REQUIREMENTS LISTED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL CONSTRUCTION AND INSPECTION REQUIREMENTS FOR THIS PROJECT, AS INCLUDED IN THE PROJECT SPECIFICATIONS. ADDITIONAL AND POSSIBLY MORE STRINGENT REQUIREMENTS ARE GIVEN IN THOSE SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THESE GENERAL NOTES AND THE REQUIREMENTS GIVEN IN THE PROJECT SPECIFICATIONS, THE PROJECT SPECIFICATIONS GOVERN.

2. DESIGN DETAILS AS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND APPLY TO ALL SIMILAR SITUATIONS OCCURRING ON THE PROJECT, WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED IN EACH LOCATION. CONSULT THE ENGINEER FOR CONCURRENCE PRIOR TO CONSTRUCTION.

CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. REINFORCED CONCRETE 28-DAY COMPRESSIVE STRENGTH SHALL MEET REQUIREMENTS BELOW, UNLESS NOTED OTHERWISE:
CONCRETE: 4,000 PSI

3. USE CEMENT CONFORMING TO ASTM C150, TYPE V, LOW ALKALI.

4. SAW CUT JOINTS: SAW JOINTS BEFORE UNCONTROLLED SHRINKAGE CRACKING OCCURS. DO NOT TEAR OR RAVEL CONCRETE DURING SAWING.

5. CONCRETE FINISHERS SHALL BE ACI CERTIFIED.

STEEL REINFORCEMENT

1. PROVIDE STEEL REINFORCEMENT CONFORMING TO ASTM A615 GRADE 60

2. PROVIDE 24" LAP SPLICE U.N.O

3. CONCRETE COVER SHALL BE THE CLEAR DISTANCE BETWEEN REBAR AND CONCRETE SURFACE:
PROVIDE THE FOLLOWING CONCRETE COVER:

CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND:	3 INCHES
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
#6 THROUGH #18 BARS	2 INCHES
#5 BAR AND SMALLER	1 ½ INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
#11 BAR AND SMALLER	¾ INCHES
OTHER	1 ½ INCHES

FORMWORK, SHORING, AND BRACING

1. CONFORM TO ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" FOR DESIGN AND CONSTRUCTION OF CONCRETE FORMWORK AND BRACING. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF FORMWORK AND BRACING.

2. STRUCTURES AS SHOWN ON THESE PLANS DRAWINGS INDICATE THE FINAL CONDITION ONLY AND DO NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR STRUCTURAL STABILITY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATED TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.

SPECIAL INSPECTION AND MATERIALS TESTING

1. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH SECTION 1705.1.1 AND TABLE 1705.3 OF THE 2018, INTERNATIONAL BUILDING CODE (IBC).

2. SPECIAL INSPECTION IS ALSO REQUIRED FOR STEEL REINFORCEMENT PRIOR TO CONCRETE POUR IN ACCORDANCE WITH SECTION 1705.1.1 AND TABLE 1705.3 OF THE 2018, INTERNATIONAL BUILDING CODE (IBC).

3. MATERIALS TESTING SHALL CONFORM TO PLAN AND 2017 EDITION MANUAL OF STANDARD SPECIFICATIONS PUBLISHED BY UTAH SECTION OF THE AMERICAN PUBLIC WORKS ASSOCIATION AND RELATED ASTM TESTING STANDARDS. WHEN THERE IS A CONFLICT, THE MORE STRICT STANDARD SHALL BE USED.

GRADING

1. CONTRACTOR TO VERIFY EXISTING GRADING

2. FINISH GRADE MATCH EXISTING

POST-INSTALLED ANCHOR

1. HILTI-HY 200-A SHALL BE USED AS THE EPOXY MATERIAL FOR POST-INSTALLED ANCHORS. ANCHORS SHALL BE INSTALLED AT AN AMBIENT TEMPERATURE ABOVE 41°F.

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220 E MORRIS AVENUE
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

GENERAL NOTES

SHEET: C 0.1
DATE: December 10, 2021

N

Construction Notes

1. 2017 Edition APWA Standard Specification shall govern the lining materials, procedures, and applications, unless noted otherwise;
2. Sawcut curb or/and edge of pan joint to joint to remove existing grate.

Default

- 900 W (2100S_3300S) East Storm Inlets

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SCALE None

DATE December 8, 2021

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220 E MORRIS AVENUE
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

2100 S TO 2300 S

SHEET C 1.1

DATE December 10, 2021

Construction Notes

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Default

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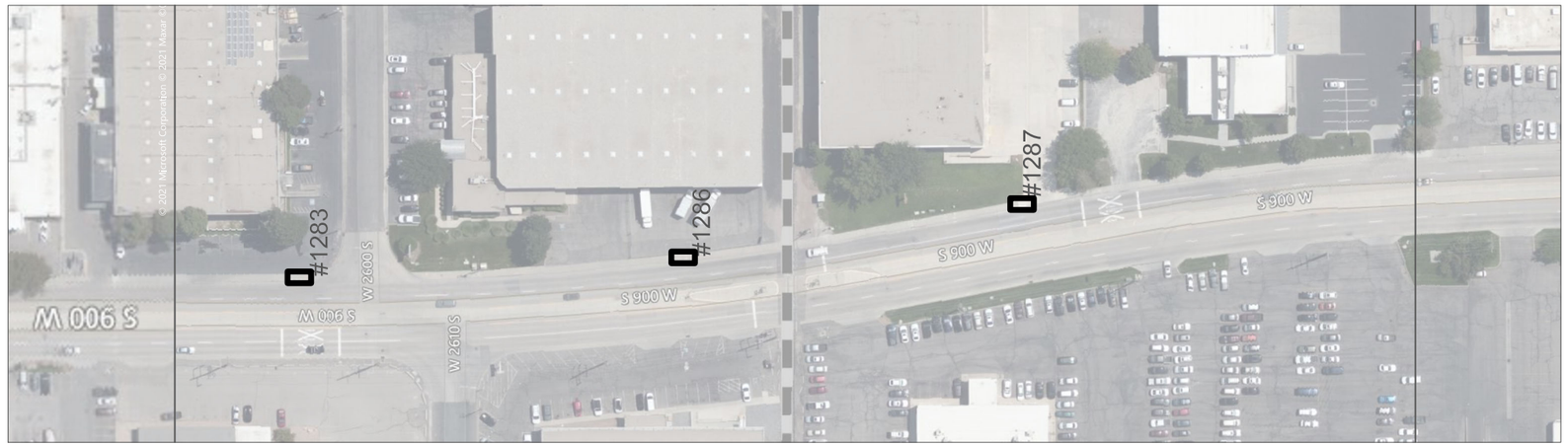
SOUTH SALT LAKE CITY, UT 84115

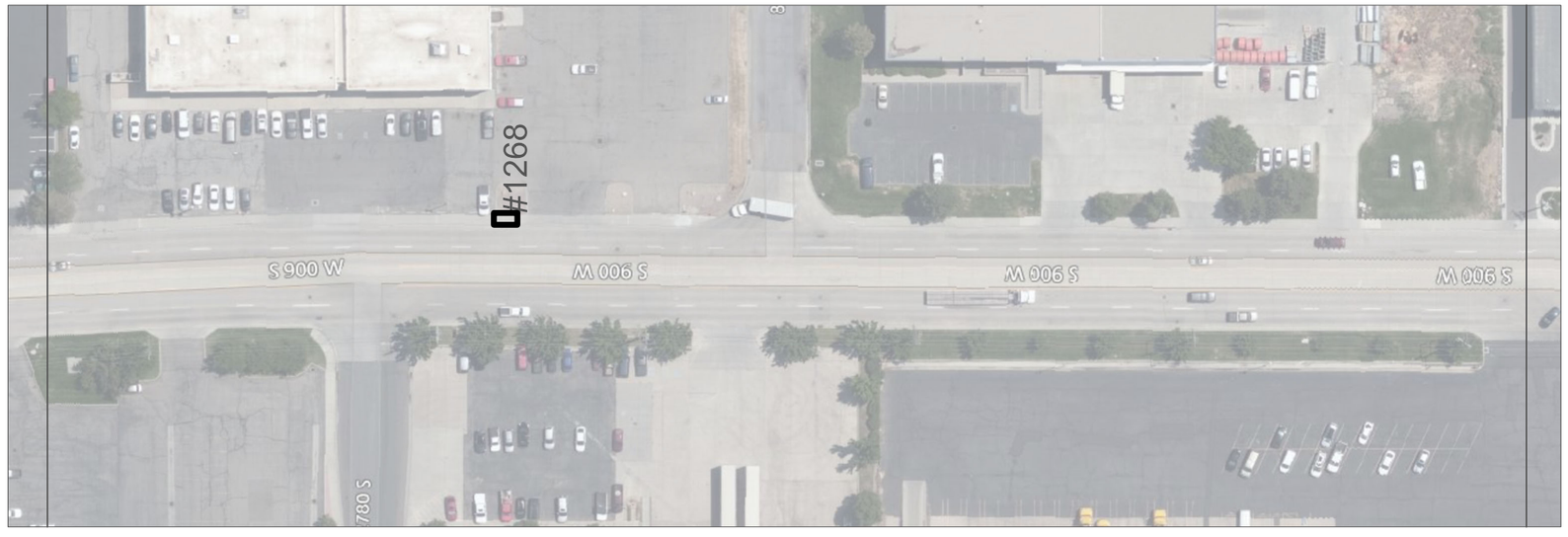
2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

2300 S TO 2560 S

SHEET C 1.2

DATE December 10, 2021





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▯ 900 W (2100S_3300S) East Storm Inlets

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SOUTH SALT LAKE ENGINEERING DEPARTMENT

220 E MORRIS AVENUE
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

2560 S TO 2850 S

SHEET C 1.3

DATE December 10, 2021

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Construction Notes

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900 W (2100S_3300S) East Storm Inlets

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220 E MORRIS AVENUE
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2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

2580 S TO 3150 S

SHEET C 1.4
DATE December 10, 2021

Construction Notes

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SOUTH SALT LAKE ENGINEERING DEPARTMENT
220 E MORRIS AVENUE
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

3150 S TO 3300 S

SHEET C 1.5

DATE December 10, 2021

SEPTEMBER, 2018 DATE | SHEET

CATCH BASIN

220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

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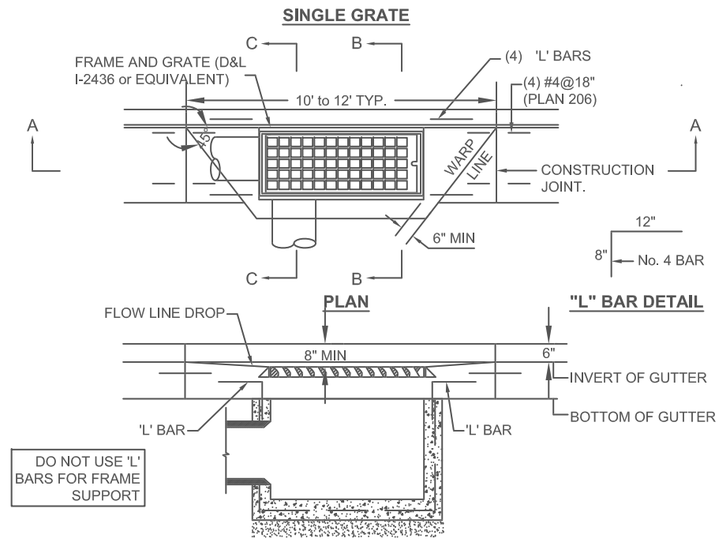
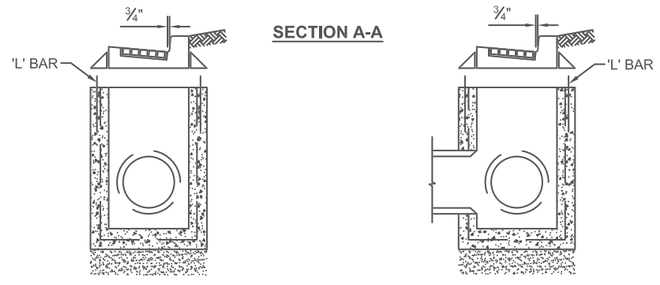
Catch basin

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.





SECTION B-B

SECTION C-C

Catch basin

SEPTEMBER, 2018 DATE | SHEET

CATCH BASIN

220 E MORRIS AVENUE
SOUTH SALT LAKE, UTAH 84115

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2021 SOUTH SALT LAKE 900 W 2100 S TO 3300 S CATCH BASIN GRATE REPLACEMENT

DETAIL

SHEET
C 4.1
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