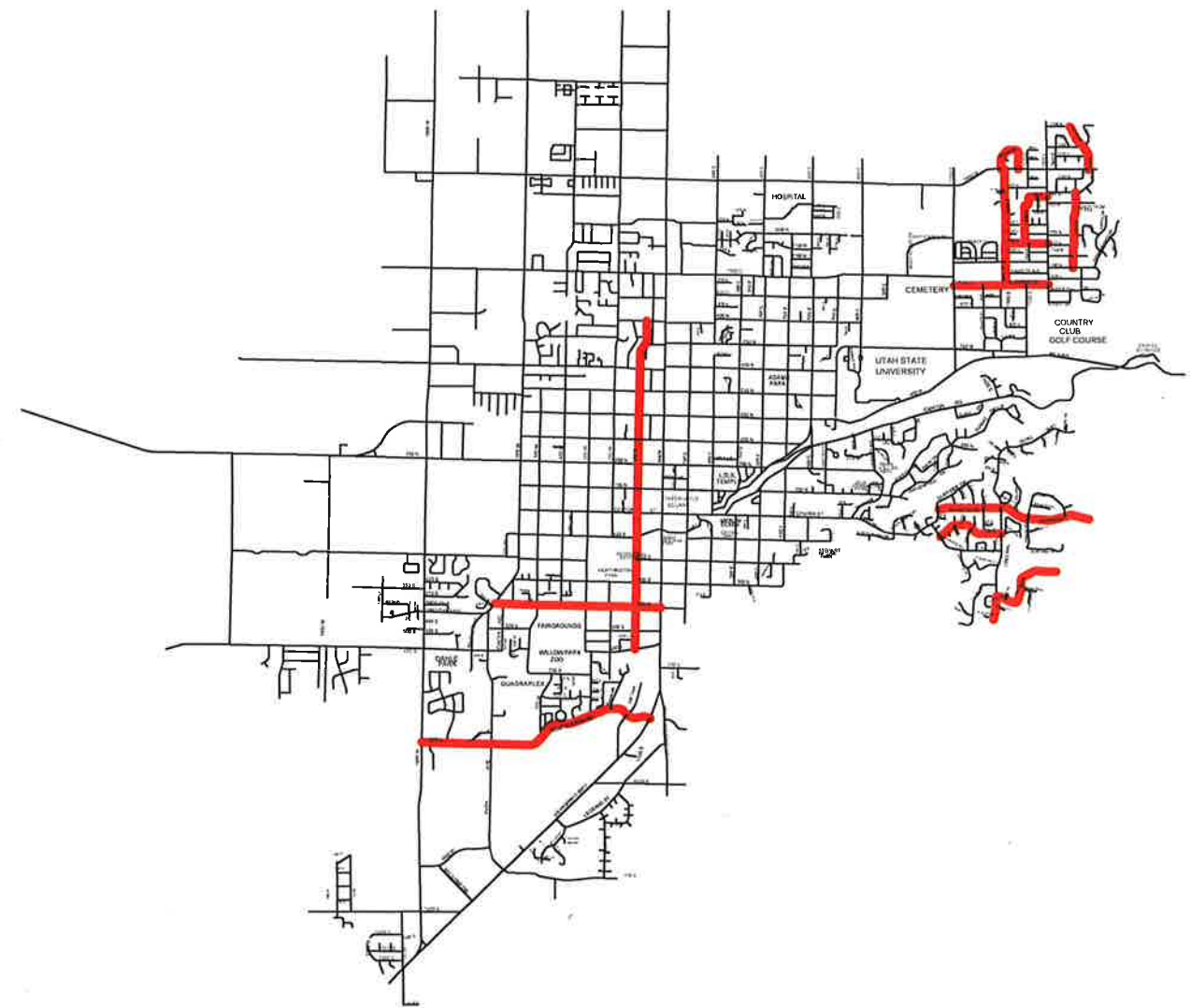




# CITY OF LOGAN

## 2017 CONCRETE COLLARS MANHOLE & VALVE COLLARS PROJECT 17026



THESE PLANS HAVE BEEN REVIEWED AND APPROVED BY THE FOLLOWING:

WATER/ WASTE WATER  
DIVISION MANAGER

*Paul Lindhardt*  
PAUL LINDHARDT, P.E. 10-17-17  
DATE

STREETS DIVISION MANAGER:

*Jed Al-Imari*  
JED AL-IMARI 10-17-2017  
DATE

CITY ENGINEER:

*Bill Young*  
BILL YOUNG, P.E. 10/18/17  
DATE

LOGAN CITY ENGINEERING  
290 NORTH 100 WEST  
LOGAN, UTAH 84321

DESIGNED: AOLIPHANT	DATE: October 17, 2017
DRAFTED: AOLIPHANT	PROJECT: 17026
CHECKED: LHOUSER	REVISION:

**SHEET INDEX**

SHEET NAME	DESCRIPTION
COVER	
GN	GENERAL NOTES
SW	STORM WATER
OV	PROJECT OVERVIEW
DT1	DETAILS

**PROJECT SPECIFIC NOTES**

**CONCRETE COLLARS**

- SEE DETAILS ON DT1.
- RECONSTRUCT ANY MANHOLE OR VALVE LID THAT EITHER HAS NO COLLAR OR ARE NOT LEVEL WITH SURROUNDING ASPHALT. SKIP ALL FLAT LID/FRAMES TO BE DONE LATER BY LOGAN CITY.
- CONCRETE MIX TO BE USED FOR CONCRETE COLLARS SHALL BE PROVIDED TO THE ENGINEER AT THE PRE-CONSTRUCTION MEETING SPECIFYING WHO WILL BE PROVIDING THE CONCRETE.
- CONCRETE USED IN CONCRETE COLLARS SHALL BE LEGRANDE JOHNSON'S UDOT 70-B WITH FIBER MIX, PARSONS AA-AE HP WITH FIBER ADD IN, OR EQUIVALENT HIGH EARLY STRENGTH MESH MIX TO UDOT STANDARDS.
- CONCRETE CURING AGENT SHALL BE APPLIED. AGENT SHALL BE A TYPE ID CASS A (CLEAR WITH FUGITIVE DYE), MEMBRANE FORMING COMPOUND PER APWA SECTION 03 39 00. SPECIFIC AGENT TO BE USED AND MANUFACTURER LITERATURE CONCERNING THE AGENT SHALL BE PROVIDED IN THE PRE-CONSTRUCTION MEETING.
- ALL ASPHALT CUTS FOR CONCRETE COLLARS SHALL BE NEAT, VERTICAL, AND CONCENTRIC. ALL CUTS SHALL BE CLEANED OF ALL DEBRIS, OIL, AND DIRT PRIOR TO PLACING CONCRETE.
- FINISHED GRADES SHALL HAVE THE ASPHALT FINISHED 1/8 TO 1/4 INCH ABOVE THE CONCRETE COLLAR. IF IT EXCEEDS 1/4 INCH AT ANY PLACE ON THE COLLAR OR LID, THE COLLAR WILL BE REPLACED AND THE LID AND FRAME ADJUSTED AT NO ADDITIONAL COST TO LOGAN CITY.
- ALL FRAME AND COVERS OR WATER VALVE LIDS THAT ARE NOT LOGAN CITY STANDARD SHALL BE REPLACED WITH STANDARD PARTS OR THE COLLAR WILL BE REDONE AT NO ADDITIONAL COST TO LOGAN CITY.
- NO STEEL RISERS ALLOWED IN SEWER OR STORMWATER MANHOLES.

**RIGHT OF WAY, CENTERLINE, AND GPS MONUMENTS**

- ALL EXISTING RIGHT OF WAY MONUMENTS, CENTERLINE MONUMENTS, AND GPS MONUMENTS SHALL BE PROTECTED AND MAINTAINED UNDISTURBED UNLESS DIRECTED OTHERWISE BY THESE PLANS OR BY CHANGE ORDER SIGNED BY THE ENGINEER.

**GENERAL NOTES**

**STANDARDS AND SPECIFICATIONS**

- ALL CONSTRUCTION SHALL MEET CITY OF LOGAN STANDARDS AND SPECIFICATIONS (APWA 2007, AS AMENDED BY LOGAN CITY AS OF DATE APPROVED FOR CONSTRUCTION BY ENGINEER). STANDARDS AND SPECIFICATIONS CAN BE VIEWED AND PRINTED AT: [HTTP://WWW.LOGANUTAH.ORG/GOVERNMENT/DEPARTMENTS/PUBLIC\\_WORKS/ENGINEERING/ENGINEERING\\_DOCS.PHP](http://www.loganutah.org/government/departments/public_works/engineering/engineering_docs.php)
- ANY AMBIGUITIES OR CONFLICTS IDENTIFIED BY THE CONTRACTOR, CONTRACTOR'S REPRESENTATIVE, ENGINEER, OR ENGINEER'S REPRESENTATIVE SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY. THESE SHALL BE RESOLVED AT NO ADDITIONAL COST TO THE CITY BASED ON THE FOLLOWING ORDER OF PRECEDENCE ( PER APWA 2007 SECTION 00 72 00, PART 3, SECTION 3.3) EXCEPT AS NOTED HEREIN:
  - CONTRACT FOR CONSTRUCTION (FROM BID DOCUMENTS)
  - MODIFICATIONS, ADDENDUMS, OR CHANGE ORDERS SHALL TAKE PRECEDENCE OVER ALL PREVIOUS MODIFICATIONS, ADDENDUMS, OR CHANGE ORDERS.
  - APWA 2007 GENERAL CONDITIONS SECTION 00 72 00 AS AMENDED BY LOGAN CITY
  - SPECIAL OR SUPPLEMENTAL SPECIFICATIONS
  - PLANS (DRAWINGS)
    - WRITTEN DIMENSIONS OVER MEASURED DIMENSIONS
    - SPECIAL DETAILS OVER PLANS AND PROFILES EXCEPT THAT LOGAN CITY STANDARD DETAILS SHALL TAKE PRECEDENCE OVER CONSTRUCTION DETAILS UNLESS STATED OTHERWISE BY CITY ENGINEER.
  - STORM WATER POLLUTION PREVENTION PLAN AND OTHER PERMITS
  - LOGAN CITY AMENDMENTS TO APWA 2007 STANDARD DRAWINGS
  - LOGAN CITY AMENDMENTS TO APWA 2007 STANDARD SPECIFICATIONS
  - APWA 2007 STANDARD DRAWINGS
  - APWA 2007 STANDARD SPECIFICATIONS
- CONTRACTOR IS SOLELY RESPONSIBLE TO REVIEW AND FULLY UNDERSTAND THE PLANS DURING BIDDING. DEVIATIONS OR DISCREPANCIES ARE TO BE IDENTIFIED DURING BIDDING IF AND WHEN IDENTIFIED.

**SAFETY IN THE WORK ZONE**

- ALL PERSONNEL ARE REQUIRED TO WEAR HARD-HATS AND STEEL TOE BOOTS WITHIN THE WORK ZONE.
- ORANGE OR FLORESCENT YELLOW VESTS OR CLOTHING SHALL BE WORN WHILE WORKING ON THIS PROJECT COMPLIANT WITH THE FOLLOWING:
  - CLASS 3 WHILE WORKING AT NIGHT WITHIN UDOT RIGHT-OF-WAY OR WHERE VEHICLE VELOCITIES MAY EXCEED 50 MPH.
  - CLASS 2 WHILE WORKING WITHIN LOGAN CITY RIGHT-OF-WAY AND WHERE VEHICLE VELOCITIES ARE LESS THAN 50 MPH.
- ALL TRENCHING SHALL BE IN COMPLIANCE WITH OSHA 29 CFS, PART 1926. ALL SOILS SHALL BE CONSIDERED TYPE C WHILE PREPARING TRENCH SHORING CALCULATIONS UNLESS GEOTECHNICAL REPORT SPECIFIES A TYPE D.
- CONFORM TO ALL OTHER APPLICABLE OSHA RULES AND REGULATIONS WHILE WORKING ON THIS PROJECT.

**EXISTING UTILITIES**

- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY.
- CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS BY CONTACTING BLUE STAKES AT 1-800-662-4111 OR 811 AND OTHER APPLICABLE UTILITIES PRIOR TO EXCAVATION.
- UTILITY CONTACTS ARE AS FOLLOWS:
  - WATER AND SANITARY SEWER: PAUL LINDHARDT (435) 770-5033 OR KASEY ERICKSON (435) 994-0316.
  - STORM WATER: JED AL-MARI (435) 881-4327 OR SHAWN HANSEN (435) 994-0526.
  - LOGAN CITY LIGHT AND POWER: STEVE CROSBY (435) 716-9745 OR (435) 757-8530.
  - COMCAST: ALEX VASQUEZ (801) 245-5314
  - CENTURY LINK: PAUL HIGBY (435) 232-3916
  - QUESTAR: NICK WHITE (435) 213-5662 OR (435) 755-2205
  - USU UTILITIES: LANCE MAUGHN (435) 797-7309
- CONTRACTOR SHALL POT-HOLE AND LOCATE EXISTING UTILITIES WHEN NECESSARY TO ENSURE CONSTRUCTION DOES NOT IMPACT EXISTING UTILITIES AND THAT THE LOCATION OF EXISTING UTILITIES DOES NOT AFFECT CONSTRUCTION. POT-HOLING SHALL BE DONE AT THE BEGINNING OF THE PROJECT IN ORDER TO PROVIDE UTILITY OWNERS ADEQUATE TIME TO RELOCATE SERVICES IF NECESSARY OR TO ALLOW ENGINEER TO REDESIGN PRIOR TO FABRICATION OF PRE-CAST STRUCTURES.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS AND REPAIRS DUE TO DAMAGE OF EXISTING UTILITIES. ALL UTILITIES MAY NOT BE SHOWN ON PLANS.
- ALL UTILITIES SHALL BE KEPT IN WORKING ORDER EXCEPT FOR THE MINIMUM TIME NEEDED FOR EXCAVATION, TRENCHING, CONNECTIONS, ETC.
- APPROVAL FROM THE ENGINEER IS REQUIRED PRIOR TO WATER AND SEWER SHUT-DOWNS IF REQUIRED TO COMPLETE THIS PROJECT. ALL AFFECTED ENTITIES AND PROPERTY OWNERS SHALL BE NOTIFIED 72 HOURS PRIOR TO APPROVED SHUTDOWNS.

**PERMITS**

- CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS REQUIRED FOR THIS PROJECT.
- CONTRACTOR SHALL OBTAIN AND KEEP COPIES OF ALL REQUIRED PERMITS AT PROJECT LOCATION DURING REASONABLE WORKING HOURS.
- CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT (CITY OF LOGAN) PRIOR TO INITIATING ANY SITE DISTURBANCE OR CONSTRUCTION IN LOGAN CITY RIGHT OF WAY.
- CONTRACTOR SHALL OBTAIN A UDOT ENCROACHMENT PERMIT ( PRIOR TO INITIATING ANY SITE DISTURBANCE OR CONSTRUCTION IN UDOT RIGHT OF WAY).

**CONSTRUCTION NOTES**

**ACCESS RESTRICTIONS, ROAD AND LANE CLOSURES, PEDESTRIAN ACCESS AND TRAFFIC CONTROL PLAN**

- CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN, ADEQUATE TRAFFIC CONTROL, SIGNING, BARRICADING, AND PEDESTRIAN DIRECTION THROUGH AND AROUND THE CONSTRUCTION WORK ZONE IN COMPLIANCE WITH THE UDOT MUTCD AS REQUIRED BY UTAH STATE LAW ( R920-1).
- THE TRAFFIC CONTROL PLANS SHALL BE PROVIDED TO THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING TO ALLOW REVIEW FOR APPROVAL. COMMENTS AND REQUIRED CHANGES SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ALL CORRECTIONS SHALL BE INCORPORATED INTO THE TRAFFIC CONTROL PLAN BEFORE A WORK IN THE RIGHT-OF-WAY PERMIT WILL BE ISSUED.
- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TRAFFIC CONTROL AS PART OF THIS PROJECT.
- CONTRACTOR SHALL INSPECT TRAFFIC CONTROL DAILY TO ENSURE A SAFE WORK ZONE.
- ANY SIGNIFICANT MODIFICATIONS TO THE TRAFFIC CONTROL PLAN DURING CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
- PROPERTY OWNERS, RESIDENTS, AND BUSINESSES SHALL BE GIVEN 48 HOURS NOTICE OF DRIVEWAY ACCESS RESTRICTIONS DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING HOMEOWNERS, RESIDENTS, AND BUSINESSES AS WORK OCCURS
- ACCESS TO ALL BUSINESSES WITHIN THE PROJECT AREA SHALL BE COORDINATED WITH BUSINESS OWNERS AND REASONABLY MAINTAINED DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE NOTICE OF ROAD CLOSURE TO LOCAL AREA BUSINESSES AT LEAST 48-HOURS IN ADVANCE OF CLOSURE.
- CONTRACTOR SHALL COORDINATE LANE CLOSURES AND PARTIAL AND COMPLETE ROAD CLOSURES WITH THE ENGINEER.
- CONTRACTOR SHALL NOTIFY EMERGENCY SERVICES, CACHE VALLEY TRANSIT AUTHORITY, LOGAN CITY ENVIRONMENTAL DEPARTMENT, USU POLICE, AGGIE SHUTTLE, AND THE SCHOOL DISTRICT OF CLOSURE AT LEAST 48- HOURS PRIOR TO CLOSURE. THROUGH TRAFFIC MUST BE MAINTAINED TO THE GREATEST EXTENT REASONABLE AND SAFE.
- ROAD CLOSURE IS ALLOWED ON CONDITION OF CONTINUAL WORK IN THE ROADWAY. THE ROADWAY SHALL BE OPENED TO THROUGH TRAFFIC AT EVERY OPPORTUNITY WHEN CONDITIONS ARE SAFE AND WORK CREWS ARE NOT ACTIVELY WORKING IN THE ROADWAY.

**QUALITY CONTROL TESTING**

- CONTRACTOR SHALL EMPLOY AN APPROVED QUALITY CONTROL TESTING AGENCY TO PROVIDE TESTING FOR THE SITE IN ACCORDANCE WITH THE APPROPRIATE SECTIONS OF APWA MANUAL OF STANDARDS AND SPECIFICATIONS AS AMENDED BY LOGAN CITY.
- CONTRACTOR QUALITY CONTROL TESTING AGENCY SHALL PROVIDE CONCRETE TESTING INCLUDING AIR, SLUMP, 7 DAY BREAK TEST, AND 28 DAY BREAK TESTS AS REQUIRED BY APWA SECTION 03 30 05.
- FIELD TEST RESULTS SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR THE CITY OF LOGAN, THE DESIGNATED PUBLIC WORKS INSPECTOR FOR THE PROJECT, AND A COPY OF EACH REPORT KEPT ONSITE. EACH FAILED FIELD TEST AND ITS CORRESPONDING PASSING TEST SHALL BE CLEARLY IDENTIFIED IN EACH FIELD TEST REPORT.
- LABORATORY TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR THE CITY OF LOGAN WITHIN 48 HOURS OF DETERMINATION.
- A FINAL SUMMARY REPORT, IN TABULAR FORM, SHALL BE SUBMITTED TO THE ENGINEER FOR THE CITY OF LOGAN PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE FINAL SUMMARY REPORT SHALL INCLUDE TABULAR RESULTS SHOWING EACH FAILED TEST AND ITS CORRESPONDING PASSING TEST.

DESIGNED: ALOPHANT	DATE: 17-Oct-17	REVISION BLOCK:	SCALE: NO SCALE	SHEET NO: GN1
DRAFTED: ALOPHANT	ENG #: 15017		VERIFY SCALE: 1" = 10'	
CHECKED: BYOUNG			SCALE = 1/2" SHOWN SCALE IF PLOTTED ON B SIZE PAPER	
2017 COLLARS		GENERAL NOTES		
LOGAN CITY ENGINEERING 290 NORTH 100 WEST LOGAN, UTAH 84321				
				

PROJECT FILE LOCATION: G:\public\Engineering File System\PROJECTS 2017\ENGS 7026 - 2017 Concrete Collars\2017 COLLAR GENERAL NOTES.dwg  
 PROJECT DATE/TIME: 09/17/17 9:18 AM

# STORM WATER POLLUTION PREVENTION INFORMATION

## SITE EVALUATION, ASSESSMENT, AND PLANNING

PROJECT SITE/NAME: 2017 COLLARS  
 PROJECT LOCATION: 2017 COLLARS, SEE COVER SHEET  
 CITY: LOGAN, UTAH 84321  
 COUNTY: CACHE  
 LATITUDE/LONGITUDE (GOOGLE EARTH)  
 LAT: 41°43' NORTH LONG: 111°50' WEST

## CONTACT INFORMATION AND RESPONSIBLE PARTIES:

**OWNER:** LOGAN CITY  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 (435) 716-9152 (PUBLIC WORKS)

**PROJECT MANAGER:**  
 ALEX OLIPHANT EIT  
 LOGAN CITY ENGINEERING  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 (435) 716-9165  
 ALEX.OLIPHANT@LOGANUTAH.ORG

**STORMWATER MANAGER AND SWPPP CONTACT**  
 TBD-THIS IS TO BE FILLED IN BY THE CONTRACTOR

**LOGAN CITY REGULATORY STORMWATER INSPECTOR**  
 LYNN MAYS  
 LOGAN CITY STREETS AND STORMWATER FOREMAN  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 (435) 716-9167 (DAY)  
 (435) 716-9090 (AFTER HOURS EMERGENCY)  
 LYNN.MAYS@LOGANUTAH.ORG

## NATURE AND SEQUENCE OF CONSTRUCTION

THE CITY IS REPAIRING, ADJUSTING TO STREET GRADE AND CONCRETE COLLARING MANHOLE COVERS AND WATER VALVE LIDS THIS WORK WILL BE THROUGH OUT LOGAN AS NEEDED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL OF THE ACTIVITIES WILL BE APPLIED TO THE SITE TO PROTECT THE ANY NEARBY WATER SOURCES AND LOGAN RIVER FROM POSSIBLE CONTAMINATION .  
 THE FUNCTION OF THIS ACTIVITY IS PUBLIC.  
 ESTIMATED START DATE: NOV. 2017  
 ESTIMATED COMPLETION: MAY 2018

## SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

THE SOILS ON THIS SITE ARE DIFFER THROUGH OUT PROJECT AS OBTAINED BY THE NRCS SOILS SURVEY WEBSITE.  
**SLOPES:** SLOPES ON THIS PROJECT ARE FROM 2 TO 10 PERCENT. SITE CONDITIONS ARE NOT SUBJECT TO EROSION IN THEIR PRE-CONSTRUCTION CONDITION.

**DRAINAGE PATTERNS:** DRAINAGE PATTERNS VARY BY LOCATION  
**VEGETATION:** VEGETATION IS DEVELOPED ASPHALT, GRAVEL, AND GRASS LANDSCAPING.

## CONSTRUCTION SITE ESTIMATES

CONSTRUCTION SITE AREA TO BE DISTURBED:	0.5 ACRES
TOTAL PROJECT AREA:	0.5 ACRES
PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION:	98%
PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION:	98%
RUNOFF CN NUMBER AFTER CONSTRUCTION:	98 SAME AS BEFORE CONSTRUCTION
100-YEAR PEAK RUNOFF BEFORE CONSTRUCTION:	UNKNOWN CFS
100-YEAR PEAK RUNOFF AFTER CONSTRUCTION:	UNKNOWN CFS
DETENTION REQUIREMENTS:	0 ACRE-FEET

## RECEIVING WATERS

THE RECEIVING WATER FOR THIS PROJECT VARIES.

## SITE FEATURES AND SITE SENSITIVE AREAS TO BE PROTECTED

THERE ARE NOT SITE SENSITIVE AREAS.

## ENDANGERED SPECIES

THERE ARE NO ENDANGERED SPECIES ASSOCIATED WITH THIS SITE. IT IS ALL DEVELOPED ROADWAY.

## HISTORIC PRESERVATION

THERE ARE NO HISTORIC SITES LISTED ON THIS PROJECT

## GENERAL LOCATION MAP

FOR THE GENERAL LOCATION MAP, SEE COVER SHEET.

## BMP EVALUATION FOR 90TH PERCENTILE STORM

THE GENERAL STORMWATER MS4 PERMIT REQUIRES PERMITTED AGENCIES TO RETAIN, INFILTRATE, OR EVAPORATE THE 90TH PERCENTILE STORM WHERE POSSIBLE. THE ENGINEER HAS COMPLETED AN ANALYSIS ON THIS SITE AND HAS DETERMINED IT IS NOT NEEDED.

## BMPS

1. THE CONTRACTOR SHALL ENSURE THAT NO POLLUTION LEAVES THE DESIGNATED WORK ZONE BY IMPLEMENTING STANDARD BMP'S AND COMMON PRACTICES APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL INCLUDE THE ASSOCIATED BMPS FOR EACH OF THE POSSIBLE CONTAMINANT SOURCES INCLUDED IN THE ASSOCIATED POTENTIAL POLLUTANTS INCLUDED ON THIS SHEET. THE POTENTIAL SOURCES IN BOLD TYPE ARE EXPECTED BY THE ENGINEER TO BE THE MOST LIKELY TO CAUSE CONTAMINATION
3. A CONCRETE WASH OUT WILL BE USED TO ENSURE NO CONCRETE ENTERS THE STORM DRAIN SYSTEM.

## POTENTIAL SOURCES OF POLLUTION

POTENTIAL POLLUTANT MATERIAL	ACTUAL POLLUTANT	POLLUTANT SOURCE	MANAGEMENT PRACTICE
SEDIMENT/TOTAL SUSPENDED SOLIDS	SEDIMENT	EROSION OF DISTURBED SOILS	MINIMIZE SOIL DISTURBANCE, INSTALL BMPS
SOILS STABILIZATION MATERIAL	VARIOUS MATERIALS BOTH FLOATABLE AND SOLUBLE	DISTURBED AREAS WHERE SLOPES OR SUSCEPTIBLE SOIL TYPES ARE EXPOSED	INSTALL SEDIMENT CONTROL BMPS
<b>CONCRETE-WHITE/SOLID GREY</b>	LIMESTONE, SAND, pH, CHROMIUM	EXTRA CONCRETE WHEN POURING CONCRETE	CLEAN UP EXCESS AND EXTRA CONCRETE AND DISPOSE OF AT SPECIFIED LOCATION, SEE ALSO CONCRETE WASHOUT
<b>OILS-BROWN OILY PETROLEUM AND HYDROCARBONS</b>	MINERAL OIL, HYDRAULIC FLUID, MOTOR OIL, ETC.	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	NO OILS WILL BE CHANGED ON SITE. LEAKS WILL BE REPAIRED IMMEDIATELY.
ASPHALT AND PAVING - BLACK SOLIDS	OIL AND PETROLEUM DISTILLAGES	ASPHALT PAVING OPERATIONS	PAVING OPERATIONS WILL NOT BE PERFORMED WITHIN 8 HOURS OF EXPECTED STORMS EXCEEDING 0.5 INCH.
GREASE	GREASE AND LUBE OIL	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	KEEP EQUIPMENT CLEAN AND WIPED DOWN
ANTIFREEZE	ETHYLENE GLYCOL	ENGINE COLLUANT	FIX LEAKS IMMEDIATELY. REPAIRS WILL NOT BE MADE ON SITE
CONSTRUCTION DEWATERING	TSS/SEDIMENTS	DEWATERING ACTIVITIES	CONTRACTOR TO OBTAIN PERMIT IF DEWATERING IS REQUIRED.
FUELS	BENZENE, ETHYL BENZENE, TOULENE, XYLENE, MTBE, PETROLEUM DISTALLATE, OILS/GREASES, NAPHTHALEN, COAL OIL	USED IN VEHICLES AND POWER EQUIPMENT	FUELING WILL NOT BE ALLOWED ON SITE UNLESS OVER AN IMPERMEABLE SURFACE WITH AN EMERGENCY CLEANUP KIT AT THE LOCATION
PESTICIDES AND INSECTICIDES, FUNGICIDES, HERBICIDES, AND RODENTICIDES	CHLORINATED HYDROCARBONS, ORANOPHOSPHATES, CARBAMATES, ARSENIC	USED FOR CONTROL OF PESTS DURING REVEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER PESTICIDES WILL BE IMMEDIATELY REMOVED FROM SITE
CONCRETE CURING COMPOUNDS - CREAMY WHITE LIQUID	WHITE PIGMENTED LIQUID TYPE 2. (VARIES BY MANUFACTURER)	USED FOR CONTROL OF CONCRETE CURING	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER WILL BE REMOVED FROM SITE
<b>CONCRETE WASHOUT WATER</b>	pH	CONCRETE TRUCKS AND PUMP TRUCKS	WASH WATER FROM CONCRETE TRUCKS WILL BE CONTAINED IN A LEAK PROOF LOCATION DESIGNATED BY THE CONTRACTOR
<b>TRASH</b>	SOLID WASTES	TRASH LEFT OVER FROM CONSTRUCTION ACTIVITES	REMOVE ALL TRASH FROM SITE DAILY. DO NOT DISPOSE OF TRASH IN HOLES OR TRENCHES
<b>SANITARY WASTE MANAGEMENT</b>	BACTERIA, PARASITES, VIRUSES	FECAL COLIFORM, BACTERIA ASSOCIATED WITH HUMAN OR ANIMAL WASTES	NO PUBLIC RESTROOMS AVAILABLE. CONTRACTOR SHALL PROVIDE PORTABLE FACILITIES AND ENSURE THEY ARE SECURED FROM TIPPING AND ARE MAINTAINED
FERTILIZERS - LIQUID AND SOLID GRAIN	NITROGEN, PHOSPHORUS	FERILIZERS USED IN RESTORING VEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS WILL BE PROMPTLY REMOVED FROM SITE

## BEST MANAGEMENT PRACTICES

SPECIFIC BMPS WILL BE SPECIFIED BY THE CONTRACTORS.,

SHEET NO:

SW1

SCALE

NO SCALE

VERIFY SCALE

REVISION BLOCK:


DESIGNED: ACPHANT

DATE: 17-Oct-17

DRAWN: ACPHANT

ENG #: 16017

CHECKED: BTOUNG

2017 COLLARS

STORM WATER POLLUTION PREVENTION INFORMATION

LOGAN CITY ENGINEERING

LOGAN CITY, UTAH 84321

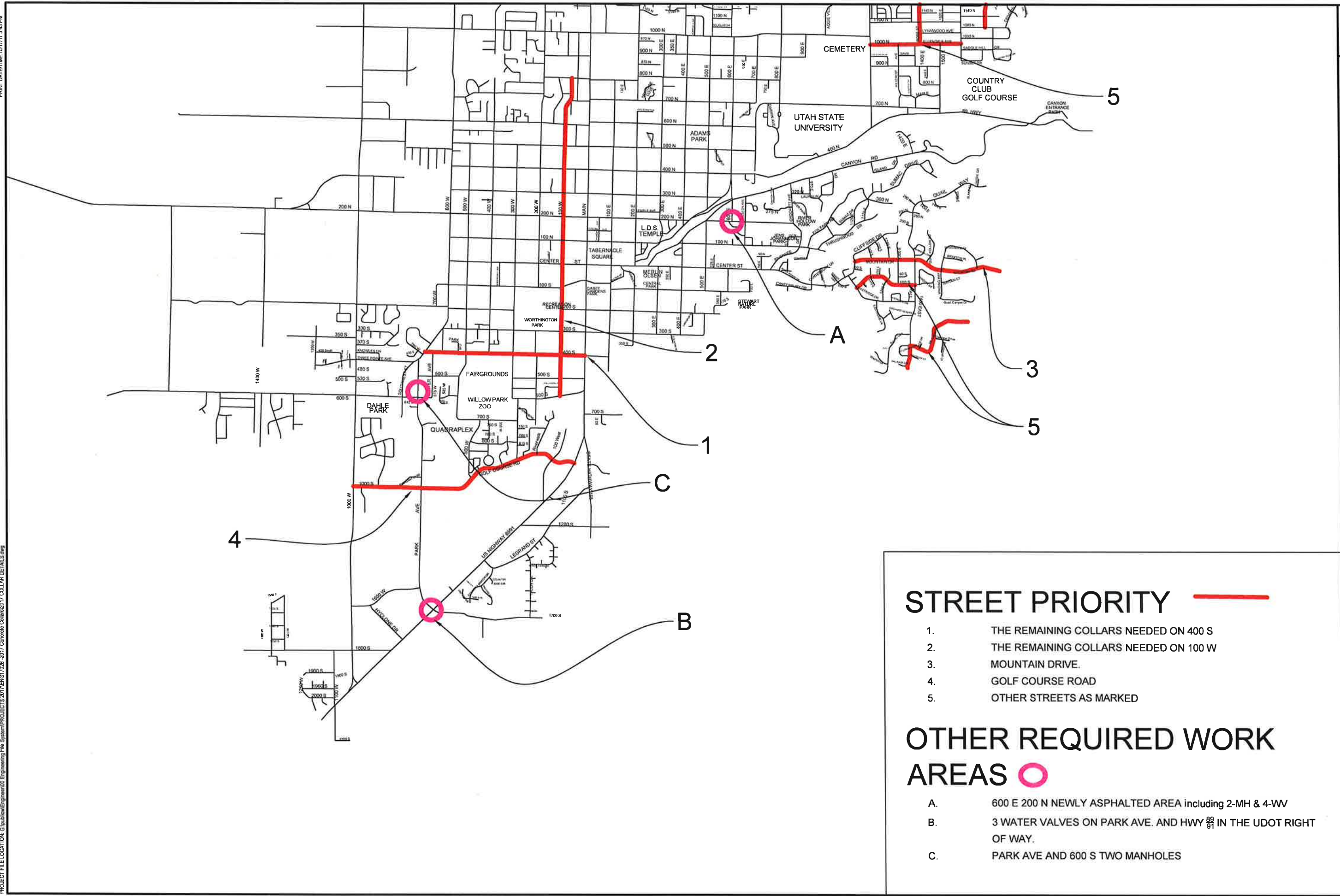
LOGAN CITY ENGINEERING

290 NORTH 100 WEST

LOGAN, UTAH 84321

LOGAN CITY ENGINEERING

PUBLIC WORKS DEPARTMENT




### STREET PRIORITY

- 1. THE REMAINING COLLARS NEEDED ON 400 S
- 2. THE REMAINING COLLARS NEEDED ON 100 W
- 3. MOUNTAIN DRIVE.
- 4. GOLF COURSE ROAD
- 5. OTHER STREETS AS MARKED

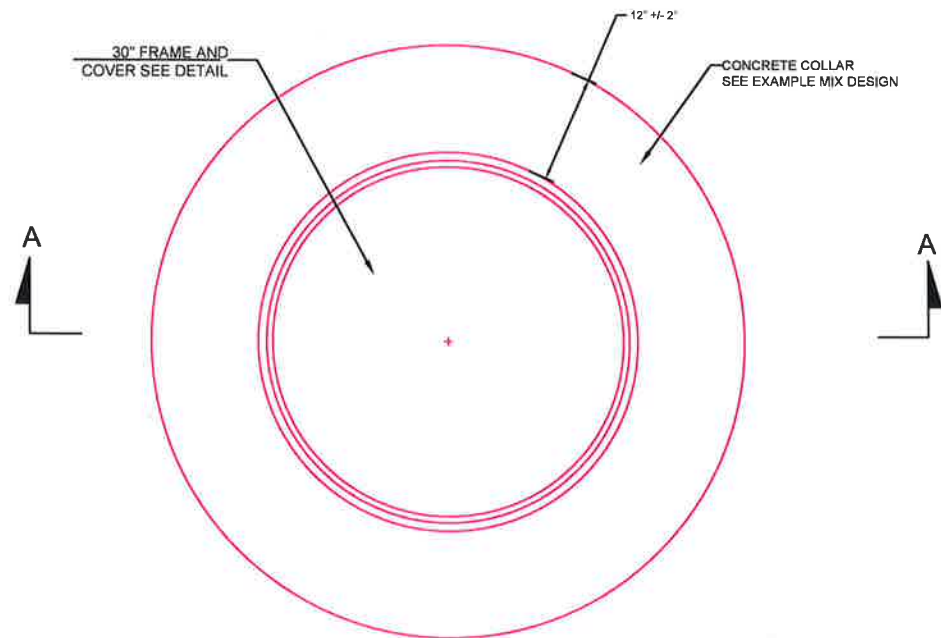
### OTHER REQUIRED WORK AREAS

- A. 600 E 200 N NEWLY ASPHALTED AREA including 2-MH & 4-WV
- B. 3 WATER VALVES ON PARK AVE. AND HWY 89 IN THE UDOT RIGHT OF WAY.
- C. PARK AVE AND 600 S TWO MANHOLES

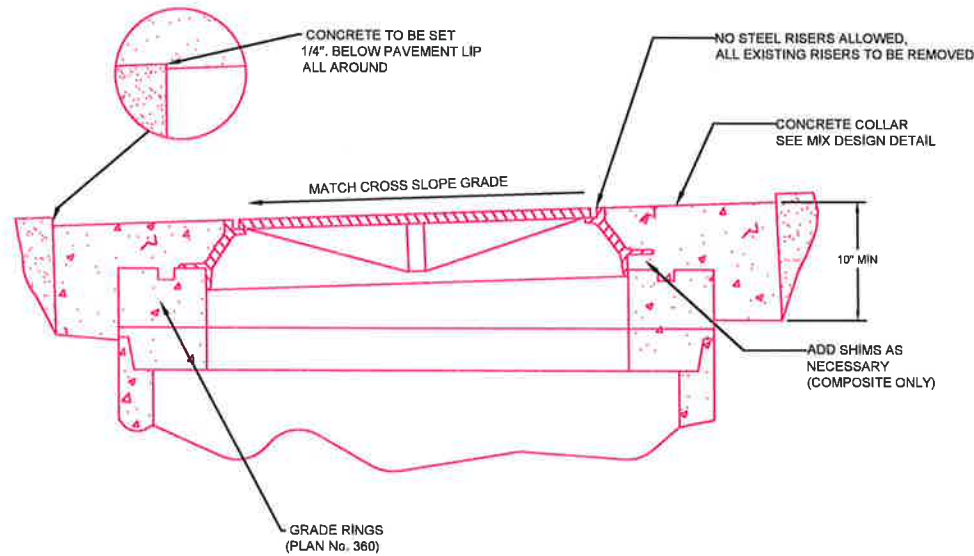
 <p><b>LOGAN CITY ENGINEERING</b> 290 NORTH 100 WEST LOGAN, UTAH 84321</p>	<p><b>2017 CONCRETE COLLARS</b></p> <p><b>PROJECT OVERVIEW</b></p>	<p>DESIGNED: AOLLIPHANT DRAFTED: AOLLIPHANT CHECKED: LHOUSER</p>	<p>DATE: October 17, 2017 ENG #: 17026</p>	<p>REVISION BLOCK</p>	<p>SHEET NO: <b>OV</b></p> <p>0' 10' 20'</p> <p>1" = 20' SCALE</p>
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### Cover collar for sanitary sewer/Storm drain manhole

1. GENERAL
  - 1.1. In a pavement surface, the concrete will support the frame under traffic loadings
2. PRODUCTS
  - 2.1. CONCRETE: Concrete collars USE LEGRANDS (UDOT 70-B MIX) OR PARSON'S (AA-AE HP WITH FIBER ADD IN), OR EQUIVALENT HIGH EARLY STRENGTH MESH MIX TO UDOT STANDARD.
  - 2.2. Concrete Curing Agent: Type ID Cass A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00
3. EXECUTION
  - 3.1. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt surfaces. Clean edges of all dirt, oil and loose debris.
  - 3.2. Concrete Placement: APWA Section 03 30 10. Fill the annular space around the frame and cover casting with concrete, and mechanically vibrate. Apply a broom finish, apply a curing agent.



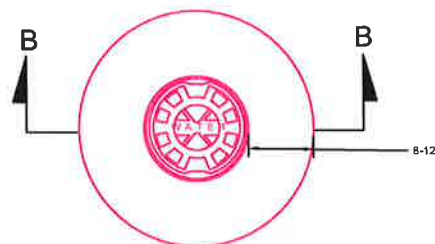
PLAN 413 / 362



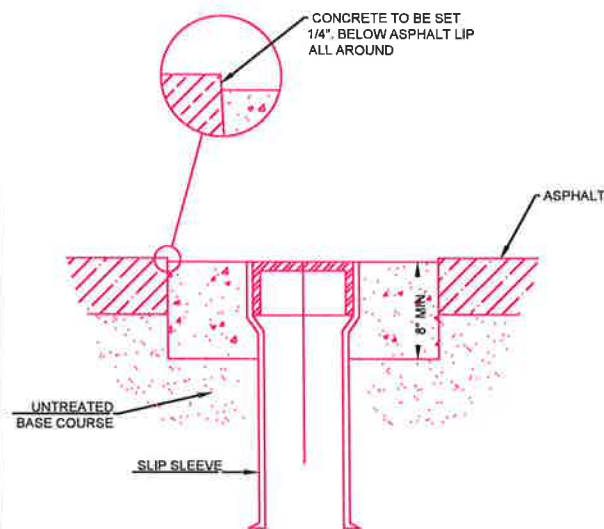
SECTION A - A

### Cover collar for water valve box

1. GENERAL
  - 1.1. In a pavement surface, the concrete will support the frame under traffic loadings
2. PRODUCTS
  - 2.1. CONCRETE: Concrete collars USE LEGRANDS (UDOT 70-B MIX) OR PARSON'S (AA-AE HP WITH MESH ADD IN), OR EQUIVALENT HIGH EARLY STRENGTH FIBER MIX TO UDOT STANDARD.
  - 2.2. Concrete Curing Agent: Type ID Cass A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00
3. EXECUTION
  - 3.1. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt surfaces. Clean edges of all dirt, oil and loose debris.
  - 3.2. Concrete Placement: APWA Section 03 30 10. Fill the annular space around the frame and cover casting with concrete, and mechanically vibrate. Apply a broom finish, apply a curing agent.



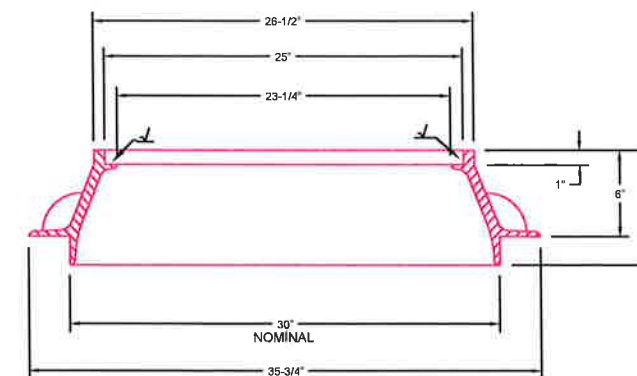
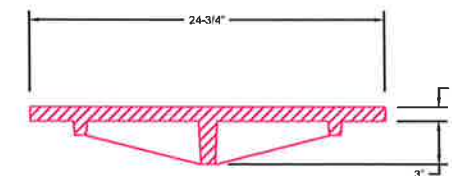
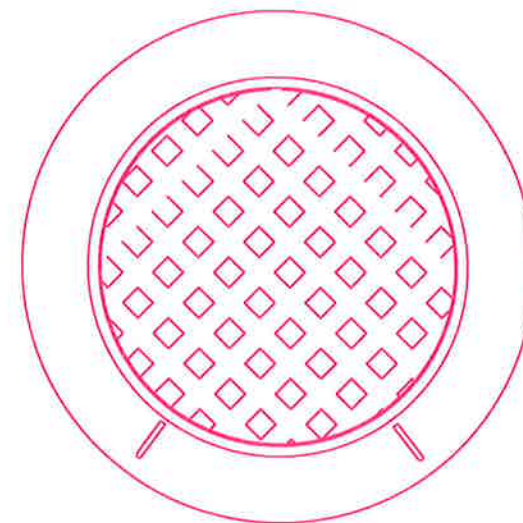
PLAN 574



SECTION B - B

### 30" Frame and cover - type A

1. CASTING: Grey iron class 35 minimum per ASTM A 48.
2. COATING: Except machined surfaces, coat all metal parts with asphaltum paint.
3. INSCRIPTION: Cast the words "STROM DRAIN" or "SEWER" on the cover flush with the surface finish.
4. HEAT NUMBER: Place foundry and heat number on the inside of the frame and on the bottom of the cover.
5. Fit  $\perp$  designates machined surface. Give the frame and cover a machine finish so the cover will not rock.
6. Sewer manhole lids will be vented
7. MANHOLE COVER COLLAR: See Plan No. 413/362.
8. ALL FRAME AND COVERS OR WATER VALVE LIDS THAT ARE NOT LOGAN CITY STANDARD SHALL BE REPLACED WITH STANDARD PARTS OR THE COLLAR WILL BE REDONE AT NO ADDITIONAL COST TO LOGAN CITY.



PLAN 302 / 402

SHEET NO:	DT 1	0' 10' 20'	1" = 20' SCALE		
REVISION BLOCK:					
DATE:	October 17, 2017	DESIGNED:	ACUPHANT	DATE:	October 17, 2017
DRAFTED:	ACUPHANT	ENG #:	17026	CHECKED:	LHOUSER
2017 CONCRETE COLLARS			DETAILS		
LOGAN CITY ENGINEERING 290 NORTH 100 WEST LOGAN, UTAH 84321					
LOGAN CITY ENGINEERING CITY UNITED IN SERVICE PUBLIC WORKS DEPARTMENT					