

# MOUNTAIN STREET UTILITY REHABILITATION PROJECT

## CARSON CITY, NEVADA PROJECT 5.1403

### BOARD OF SUPERVISORS

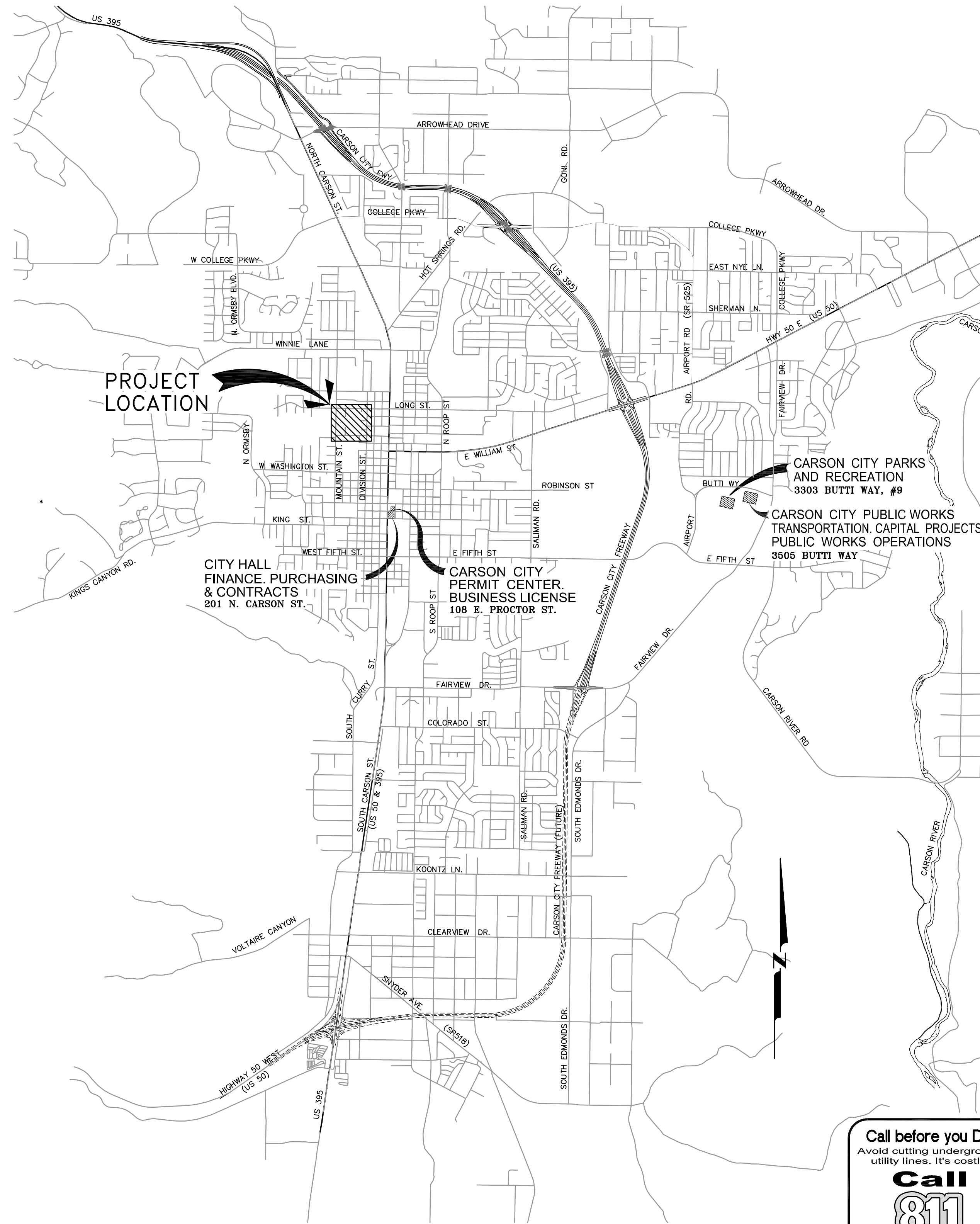
Bob Crowell Mayor  
 Karen Abowd Supervisor  
 Brad Bonkowski Supervisor  
 Lori Bagwell Supervisor  
 Jim Shirk Supervisor  
 Sue Merriwether City Clerk

### DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT  
 OPERATIONS DIVISION  
 3505 BUTTI WAY  
 CARSON CITY, NV 89701  
 775-887-2355

### GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS PER NAC 445A.67145 (1)(g) AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.
- ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK. SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
- THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.
- FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
- THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
- PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (COMC 12.06.180F, 12.01.140D)
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION, PRIOR TO BEGINNING CONSTRUCTION. POT-HOLING IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ALL PVC WATER PIPELINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARD C605 PER NAC 445A.67145 (7)(b) PRIOR TO BEING FLUSHED, DISINFECTED OR SAMPLED FOR AN ANALYSIS OF WATER QUALITY. ALL PVC WATER PIPELINES ARE TO BE DISINFECTED ACCORDING TO AWWA STANDARD C651 PER NAC 445A.67145 (6)(a).



VICINITY MAP

N.T.S.

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- LS3 ..... IRRIGATION NOTES & DETAILS

### REVIEWED FOR CITY REQUIREMENTS:

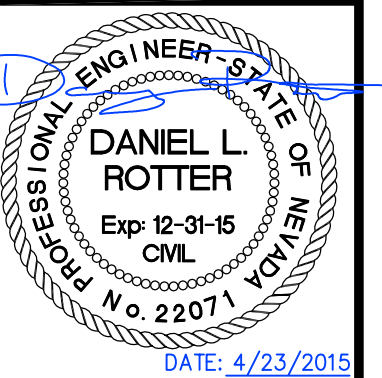
DARREN SCHULZ, P.E. - PUBLIC WORKS DIRECTOR DATE

**NOTE:**  
 A SEPARATE PERMIT SHALL BE OBTAINED FOR EACH INDIVIDUAL PROPERTY WHERE SEWER WORK SHALL BE PERFORMED IN ORDER TO CONNECT TO THE SEWER MAINS AS SHOWN ON THESE PLANS.

APPLICATION NO. \_\_\_\_\_

DESIGNED BY: DGR/DSA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403-TS.DWG  
 SCALE (HORIZ): N/A  
 SCALE (VERT): N/A  
 DATE: 4/23/15

CARSON CITY  
 PUBLIC WORKS DEPARTMENT  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355  
 FAX: 775-887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT  
 PROJECT No. 5.1403  
 TITLE SHEET

SHEET  
**G1**  
 OF  
**40**



**LEGEND**

EXISTING	PROPOSED		EXISTING	PROPOSED	
		BENCH MARK			OVERHEAD POWER
		PROPERTY LINE			UTILITY POLE
		WATER VALVE			ELECTRIC MANHOLE
		WATER LINE			TELEPHONE LINE
		WATER METER			TELEPHONE MANHOLE
		WATER SERVICE			LUMINAIRE
		FIRE HYDRANT			LIGHT POLE
		AIR RELEASE VALVE			SIGN
		SEWER LINE			CONTOUR LINES
		SANITARY SEWER MANHOLE			PCC CURB & GUTTER
		SANITARY SEWER CLEANOUT			GLUE DOWN CURB
		SEWER SERVICE			AC PAVEMENT
		STORM DRAIN CULVERT			PCC PAVEMENT
		STORM DRAIN MANHOLE			FENCE LINE
		CATCH BASIN (SQUARE)			AREAS OF SPECIAL CONSTRUCTION INSTALL RESTRAINING GLANDS ON ALL PIPE JOINTS
		CATCH BASIN (ROUND)			PLUMBING WORK UNDER HOUSE WILL BE REQUIRED
		GAS LINE			

**ABBREVIATIONS**

AB	AGGREGATE BASE	N	NORTH
ABAND	ABANDON	No	NUMBER
AC	ASPHALTIC CONCRETE	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	PCC	POINT OF CURVATURE
APN	ASSESSORS PARCEL NUMBER	PCC	PORTLAND CEMENT CONCRETE
APPROX	APPROXIMATE	PE	POLYETHYLENE
ARV	AIR RELEASE VALVE	PED	PEDESTRIAN
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	PI	POINT OF INTERSECTION
BCR	BEGIN CURB RETURN	PL	PROPERTY LINE
BVC	BEGIN VERTICAL CURVE	PRV	PRESSURE REDUCING VALVE
CATV	CABLE TV	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVC	POLYVINYLCHLORIDE
CL	CENTER LINE, CLASS	PVI	POINT OF VERTICAL INTERSECTION
CO	CLEANOUT	PWMT	PAVEMENT
CONC	CONCRETE	R	RADIUS
COND	CONDUIT	R&R	REMOVE & REPLACE
CONN	CONNECTION	RCP	REINFORCED CONCRETE PIPE
C&G	CURB & GUTTER	ROW	RIGHT OF WAY
DI	DROP INLET	RT	RIGHT
DTL	DETAIL	S	SLOPE, SOUTH
DIA, Ø	DIAMETER	SD	STORM DRAIN
DWY	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
EXIST	EXISTING	SDWK	SIDEWALK
E	EAST	SF	SQUARE FEET
EA	EACH	SHT	SHEET
ECR	END CURB RETURN	SRV	SERVICE
EL, ELEV	ELEVATION	SS	SANITARY SEWER
EP	EDGE OF PAVEMENT	SSCO	SANITARY SEWER CLEANOUT
EQ	EQUAL	SSMH	SANITARY SEWER MANHOLE
EVC	END VERTICAL CURVE	ST	STREET
FCA	FLANGED COUPLING ADAPTER	STA	STATION
FES	FLARED END SECTION	STL	STEEL
FG	FINISH GRADE	T, TELE	TELEPHONE
FL	FLOLINE	TBC	TOP BACK OF CURB
FLG	FLANGE	TC	TOP OF CURB
FT	FEET	TRANS	TRANSITION
G	GAS	TYP	TYPICAL
GB	GRADE BREAK	U/O	UNDERGROUND
GV	GRADE VALVE/GATE VALVE	UGE	UNDERGROUND ELECTRIC
HORIZ	HORIZONTAL	VC	VERTICAL CURVE
HP	HIGH POINT	W	WEST, WATER
HV	HORIZONTAL/VERTICAL	WM	WATER METER
IE, INV	INVERT ELEVATION	W/W	WITH
IRR, IRRG	IRRIGATION LINE	W/O	WITHOUT
L	LENGTH	WV	WATER VALVE
LAT	LATERAL	X'ING	CROSSING
LF	LINEAL FEET		
LT	LEFT		
MAG	MAGNETIC NAIL		
MAX	MAXIMUM		
MH	MANHOLE		
MJ	MECHANICAL JOINT		
MIN	MINIMUM		

**SPECIAL CONSTRUCTION / VERTICAL CROSSING CONFLICTS NOTES:**

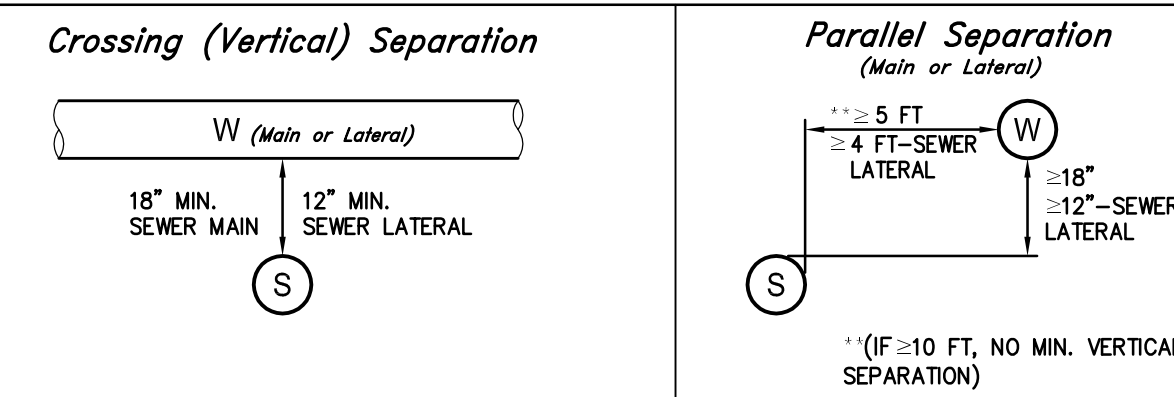
"SPECIAL CONSTRUCTION" IS REQUIRED WHENEVER SEWER/STORM DRAIN/IRRIGATION/RECLAIMED/NON-POTABLE CROSSES ABOVE WATER, REGARDLESS OF VERTICAL SEPARATION.

"SPECIAL CONSTRUCTION" IS REQUIRED IF WATER MAIN DOES NOT CROSS AT LEAST 18 INCHES ABOVE SEWER/STORM DRAIN/ IRRIGATION/RECLAIMED/NON-POTABLE MAIN/LATERALS.

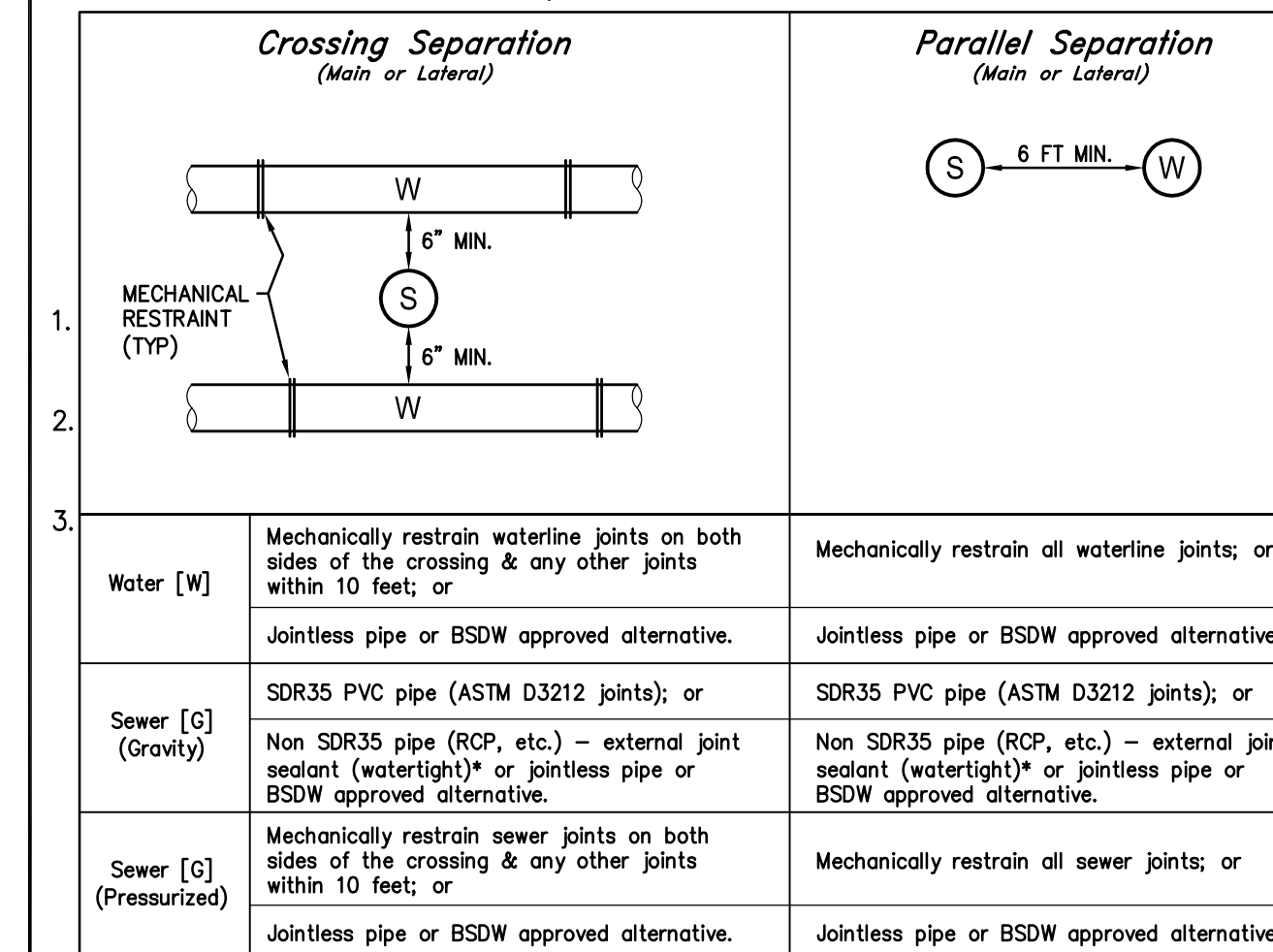
AT CROSSINGS REQUIRING "SPECIAL CONSTRUCTION", MITIGATION MUST BE PROVIDED TO BOTH AFFECTED LINES. IN ADDITION TO CENTERING AND RESTRAINING THE WATER MAIN, THE EXISTING SEWER/STORM DRAIN/ IRRIGATION/RECLAIMED/NON-POTABLE MAIN/LATERALS MUST ALSO BE PROTECTED PER THE "WATER/SEWER SEPARATION GUIDELINES" LISTED ABOVE.

**WATER/SEWER SEPARATION GUIDELINES**

**PREFERRED DESIGN/NO MITIGATION REQUIRED**



**MITIGATED DESIGN/CONSTRUCTION CONFIGURATION**



Sewer - (e.g. sanitary sewer mains and laterals, storm drains, and reclaimed wastewater mains and laterals.)

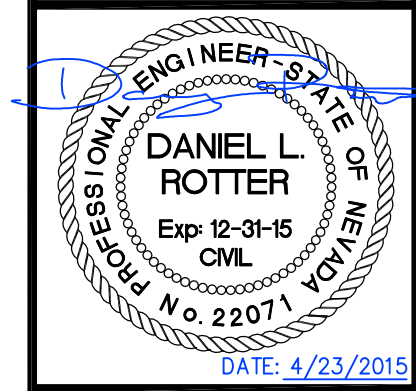
Mechanical Restraint - a mechanical coupling to restrict joint movement and separation.

Jointless Pipe - Welded HDPE (AWWA C901/C906), Fusible PVC (Fusible AWWA C900/C905), etc.

\*NPC External Joint Seals, Aquawrap, Infi-Shield Gator Wrap, ASTM C877-08, or approved equal.

DESIGNED BY: DGR/DSA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403-TS.DWG  
 SCALE (HORIZ): N/A  
 SCALE (VERT): N/A  
 DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2555 FAX: 775-887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT PROJECT No. 5.1403**  
**LEGEND, ABBREVIATIONS SPECIAL CONSTRUCTION NOTES**

I:\CAPITAL PROJECTS\Project\051403-TS.dwg (02 Design) (Rev) 5-1403-TS.dwg 4/23/15



- ALL SEWER MAINS AND LATERALS IN THE RIGHT-OF-WAY/EASEMENT SHALL BE PVC SDR35 UNLESS OTHERWISE NOTED.
- NON-FLEXIBLE TRANSITION COUPLINGS ARE REQUIRED WHEN CONNECTING NEW SEWER LINES TO EXISTING LINES AND/OR FITTINGS, SEE DWG. C-2.1.6.
- THE CONTRACTOR SHALL INSTALL A PLUG AT THE POINT OF EXTENSION OF A SEWER MAIN PRIOR TO THE START OF CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL ALL LINES HAVE BEEN INSPECTED, TESTED, CLEANED AND FLUSHED. REMOVAL OF THE PLUG BY THE CONTRACTOR PRIOR TO APPROVAL IS A VIOLATION OF THE CARSON CITY MUNICIPAL CODE AND MAY RESULT IN FINES UP TO \$1,000 A DAY.
- SEWER LINES SHALL BE TESTED PER SECTION 336.03.07 OF THE SSPWC AS ADOPTED BY CARSON CITY. AN AIR PRESSURE TEST PER SECTION 336.03.07.04 AND A DEFLECTION TEST PER SECTION 336.03.09 OF THE CARSON CITY MUNICIPAL CODE AND MAY RESULT IN FINES UP TO \$1,000 A DAY.
- MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL SEWER MAINS AND LATERALS. TAPE WIDTH SHALL BE 3 INCHES, THICKNESS SHALL BE FOUR (4) MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED SEWER LINE BELOW" OR EQUIVALENT WORDING.
- TRACER WIRE SHALL BE ATTACHED TO ANY SEWER LATERAL WHICH IS NOT PERPENDICULAR TO THE SEWER MAIN. SEE DWG C-2.2.1.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
				DRAWING NO. C-2.1.1 (204, 306, 323)
				DATE 7/2009

**SEWER GENERAL NOTES**

APPROVED BY: 07/09

- MANHOLE BASE(S) SHALL BE PRECAST UNLESS OTHERWISE APPROVED BY CARSON CITY PUBLIC WORKS. NO FIELD MODIFICATIONS TO PRECAST BASES WILL BE ALLOWED. TROUGHS AND BENCHES TO BE CAST IN BASE(S) AT PRECAST FACTORY. BASE CONFIGURATION TO BE INSTALLED AS SHOWN ON THE APPROVED PLANS. NO PLUGGING OR FIELD MODIFYING ALLOWED.
- PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478.
- ARRANGE MANHOLE SECTION LENGTHS TO FIT DEPTH. ALL SHIMS TO BE REMOVED AND VOIDS GROUTED.
- PIPES SHALL NOT PROTRUDE MORE THAN 3 INCHES INSIDE MANHOLE SECTION, AS MEASURED FROM THE INSIDE WALL AT THE SPRING LINE OF THE PIPE.
- MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE STANDARD SPECIFICATIONS.
- PRECAST MANHOLE SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS "RAM-NEK" OR EQUAL AS PER MANUFACTURER'S RECOMMENDATIONS.
- EXCAVATION AND BACKFILL SHALL BE AS SPECIFIED FOR "TRENCH EXCAVATION AND BACKFILL" IN SECTION 305 OF THE STANDARD SPECIFICATIONS. (SEE C-1.2.1)
- NO SEWER LINE PIPE WITH A DIAMETER OF LESS THAN 8 INCHES SHALL BE CONNECTED TO A MANHOLE WITHOUT THE APPROVAL OF THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- MATCH PIPE INVERTS TO MANHOLE INVERTS WHERE PIPES CONNECT TO MANHOLE BASE.
- ALL MANHOLES SHALL BE SEALED WATERTIGHT. COVERS SHALL HAVE NO "THRU" HOLES. CLOSED PICK HOLES ONLY. SOUTH BAY FOUNDRY 1900 CPH OR APPROVED EQUAL.
- COAT OUTSIDE OF SEWER MANHOLE WITH FLEXIBLE RUBBERIZED COATING WHEN GROUNDWATER IS ENCOUNTERED.
- PRIOR TO BACKFILLING, ALL MANHOLES SHALL BE VACUUM TESTED PER THE REQUIREMENTS OF ASTM C-1244.
- NO STEPS, LADDERS OR OTHER CLIMBING DEVICES SHALL BE INSTALLED IN MANHOLES.
- MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6 INCH TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02) AND SEWER MANHOLE MARKERS SHALL BE INSTALLED. SEWER MANHOLE MARKERS SHALL BE GREEN CARSONITE UTILITY MARKER (CUM 375), 5 FEET-2 INCHES (5'-2") WITH MANHOLE DECAL (668-MH) OR APPROVED EQUAL. PLACE MARKERS ON EASEMENT LINE NEAREST TO MANHOLE OR AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- SEWER MANHOLES SHALL BE VACUUM TESTED PER SECTION 3002 OF THE TECHNICAL SPECIFICATIONS AND IN ACCORDANCE WITH THE CARSON CITY SSPWC, LATEST EDITION.
- ▲ WHEN PIPE CONNECTIONS TO EXISTING MANHOLES ARE ALLOWED, THEY SHALL BE MADE BY CORE DRILLING THE MANHOLE AND CONNECTING THE PIPE PENETRATION WITH AN NPC KOR-N-SEAL PIPE-TO-MANHOLE CONNECTOR OR A LINK-SEAL MODULAR SEAL.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
<span style="color:red">▲</span>	NOTE 16	6/12		DRAWING NO. C-2.1.2 (204, 306, 323)
				DATE 7/2009

**SEWER MANHOLE NOTES  
(MODIFIED)**

APPROVED BY: 07/09

- WATER MAIN SHUTDOWNS/INTERRUPTION OF WATER/FIRE SERVICE; OBTAIN TENTATIVE APPROVAL FROM CARSON CITY WATER UTILITY PRIOR TO PLANNING A SHUTDOWN. APPROVAL IS REQUIRED ONE WORKING DAY PRIOR TO NOTIFICATION OF CUSTOMERS. COMMERCIAL CUSTOMERS SHALL RECEIVE 2 WORKING DAYS WRITTEN AND VERBAL NOTICE OF A SHUTDOWN. SPECIAL ARRANGEMENTS INCLUDING NIGHT TIME SHUTDOWNS MAY BE REQUIRED OF THE CONTRACTOR TO ACCOMMODATE CUSTOMER OPERATIONS. RESIDENTIAL CUSTOMERS SHALL RECEIVE 24 HOURS WRITTEN NOTICE. WHEN WORK IS PERFORMED BY CITY STAFF, THE CITY IS RESPONSIBLE FOR THE NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE IN ALL OTHER CASES. A LIST SHALL BE KEPT BY THE RESPONSIBLE PARTY LISTING THE DATE, TIME AND ADDRESS OF ALL PERSONS NOTIFIED. THE PERSON NOTIFIED SHALL BE INCLUDED ON THE LIST FOR ALL COMMERCIAL CUSTOMERS. CONTACT CARSON CITY WATER UTILITY FOR PHONE NUMBERS WHEN COMMERCIAL CUSTOMERS CANNOT BE LOCATED. THE CONTRACTOR WILL BE SUBJECT TO DAMAGE CLAIMS SHOULD THEY FAIL TO NOTIFY CUSTOMERS OR MAINTAIN DOCUMENTATION OF NOTIFICATION OF CUSTOMERS. THE TOTAL TIME OF ANY WATER SERVICE INTERRUPTION IS LIMITED TO 4 HOURS MAXIMUM. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES. WATER MAIN SHUTDOWNS WILL ONLY BE SCHEDULED FOR TUESDAYS, WEDNESDAYS, OR THURSDAYS, EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY. CONTRACTOR SHALL MAKE A WRITTEN REQUEST, TO THE WATER OPERATIONS CHIEF, A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF ANY PLANNED SHUTDOWN.
- WATER MAINS (6 INCH THRU 12 INCH) SHALL BE PVC C900, DR 18 (MINIMUM WALL THICKNESS) UNLESS HIGHER PRESSURE IS SPECIFIED ON THE PLANS. WATER SERVICES 2 INCHES OR LESS SHALL BE CTS, PE TUBING MINIMUM 200 PSI; WATER SERVICES 3 INCHES OR GREATER SHALL BE 4 INCH MINIMUM DIAMETER PVC C900, DR 18 OR AS SPECIFIED ON THE PLANS.
- MAINTAIN 18 INCHES VERTICAL AND 5 FEET HORIZONTAL SEPARATION BETWEEN ALL UNDERGROUND UTILITY LINES AND WATER LINES. IF WATER LINE IS BELOW POWER LINE OR IS WITHIN 18 INCH VERTICAL SEPARATION OF POWER LINE, POWER/TELEPHONE LINE SHALL BE ENCASED WITH 4 INCHES MINIMUM OF CONCRETE EXTENDING 5 FEET EACH SIDE OF CROSSING. (SEE NV ENERGY SPECS.) CONCRETE ENCASEMENT OF WATER LINES IS NOT ALLOWED.
- ▲ ALL HOT TAPS, GREATER THAN 2 INCHES AND LESS THAN 12 INCHES, ARE TO BE PERFORMED BY CARSON CITY WATER UTILITY. THE CONTRACTOR SHALL CONTACT THE WATER OPERATIONS CHIEF AT LEAST 2 WORKING DAYS PRIOR TO SCHEDULING HOT TAP DATE AND TIME (HOT TAPS ARE PERFORMED TUESDAY THRU THURSDAY EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY). PRIOR TO HOT TAPPING, THE SADDLE SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI MINIMUM OR THE DESIGN OF PIPE SYSTEM FOR A MINIMUM OF 5 MINUTES. THE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE WATER UTILITY PERSONNEL PRIOR TO PERFORMING THE TAP. ALL TAPPING EQUIPMENT SHALL BE DISINFECTED AND INSPECTED BY CITY FORCES PRIOR TO TAPPING A CITY MAIN.
- WATER VALVE MARKERS SHALL BE BLUE CARSONITE UTILITY MARKER (CUM-375), 5 FEET-2 INCHES (5'-2") WITH CARSON CITY WATER VALVE DECAL (CWV-116) OR APPROVED EQUAL. PLACE MARKER NO MORE THAN 5 FEET FROM THE VALVE OR AS DIRECTED BY THE CARSON CITY INSPECTOR.
- REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE BACKFLOW ASSEMBLIES SHALL BE APPROVED BY THE CARSON CITY INSPECTOR. AND TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER, AND TEST RESULTS SHALL BE APPROVED BY CARSON CITY WATER UTILITY. FOR NEW WATER METER SETS, THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, INSPECTED, APPROVED AND CERTIFIED TEST RESULTS PROVIDED TO THE CARSON CITY INSPECTOR WITHIN 5 DAYS OF METER SET. UNLESS THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR APPROVES OTHERWISE, THE SERVICE WILL BE LOCKED OFF IF INSPECTIONS AND CERTIFICATIONS ARE NOT COMPLETED AS SPECIFIED ABOVE. A 25 DOLLAR FEE WILL BE ASSESSED AT TIME OF TURN-ON WHEN LOCK IS REMOVED DURING NORMAL WORKING HOURS. THE FEE WILL BE ASSESSED ON THE BUILDING PERMIT FOR THE INSTALLATION OF THE BACKFLOW DEVICE.
- ALL WATER MAIN, WATER/FIRE SERVICE, AND BACKFLOW PREVENTION INSPECTIONS AND TESTING MUST BE APPROVED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY.
- DISINFECTION TABLETS SHALL BE PLACED USING TITEBOND MULTI-PURPOSE CLEAR 100% SILICONE OR APPROVED EQUAL FOOD GRADE SILICONE

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
<span style="color:red">▲</span>	NOTE 4	05/14		DRAWING NO. C-3.1.1 (307)
				DATE 5/2014

**WATER  
GENERAL NOTES**

APPROVED BY: 05/14

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 57 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINMENT AIR. 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF TYPE II CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SURFACE OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE AND A MINIMUM SURFACE OF 4 FEET CLEAR IS REQUIRED WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE, UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
- ▲ AC PAVEMENT EDGE SHALL BE 1/4 INCH TO 1/2 INCH ABOVE THE LIP OF GUTTER. EXCEPTION: AC PAVEMENT EDGE SHALL BE FLUSH TO 1/4 INCH ABOVE THE LIP OF GUTTER WHEN LOCATED ADJACENT TO A PEDESTRIAN RAMP, WITHIN AN ACCESSIBLE ROUTE OR BIKE LANE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
<span style="color:red">▲</span>	NOTE 8	05/14		DRAWING NO. C-5.2.1
				DATE 5/2014

**SIDEWALK AND DRIVEWAY  
GENERAL NOTES**

APPROVED BY: 05/14

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY ENGINEERING DIVISION.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARDS WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR. A MINIMUM LANDING OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE. A MINIMUM OF 4 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE.
- WHEN A CROSSWALK IS SERVICED BY RAMP, LANDINGS SHALL BE CONTAINED WITHIN THE CROSSWALK AREA.
- EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
- PLANTXIM BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP. GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
- DETECTABLE WARNINGS SHALL BE EAST JORDAN IRON WORKS 700S SERIES CAST IRON DETECTABLE WARNING PLATES OR APPROVED EQUAL. INSTALLED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM TO ADAAG (4.29) "DETECTABLE WARNINGS". COLOR: ASPHALT DIPPED UNLESS OTHERWISE APPROVED BY CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR. RADIAL DETECTABLE WARNINGS SHALL BE USED WHEN REQUIRED TO MAINTAIN MINIMUM CLEARANCE OF 3 INCHES AND MAXIMUM CLEARANCE OF 8 INCHES FROM DETECTABLE WARNINGS TO BACK FACE OF CURB. RADIAL DETECTABLE WARNINGS SHALL HAVE A RADIUS WITHIN 5 FEET OF BACK FACE OF CURB RADIUS.
- ▲ AC PAVEMENT EDGE SHALL BE 1/4 INCH TO 1/2 INCH ABOVE THE LIP OF GUTTER. EXCEPTION: AC PAVEMENT EDGE SHALL BE FLUSH TO 1/4 INCH ABOVE THE LIP OF GUTTER WHEN LOCATED ADJACENT TO A PEDESTRIAN RAMP OR WITHIN AN ACCESSIBLE ROUTE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
<span style="color:red">▲</span>	NOTE 11	6/12		DRAWING NO. C-5.3.1
				DATE 6/2012

**CURB RAMP  
GENERAL NOTES**

APPROVED BY: 6/12

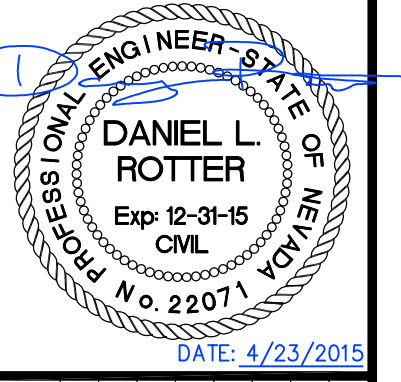
- CONSTRUCTION NOTES:**
- INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
  - INSTALL 60 INCH DROP MANHOLE PER STD DRAWING C-2.1.4
  - INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
  - INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
  - INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL. WHEN SPECIAL CONSTRUCTION IS REQUIRED.
  - INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3
  - EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6, (NOTE 6). MAINTAIN -2.0% MINIMUM SLOPE TO SEWER MAIN.
  - DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
  - ABANDON EXISTING SANITARY SEWER MANHOLE PER DETAIL 1, SHT C27.
  - REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
  - INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
  - INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
  - INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
  - INSTALL PERMANENT FLUSH VALVE ASSEMBLY PER STD. DWG C-3.1.12
  - INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX. INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
  - INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
  - INSTALL POTABLE WATER AIR RELEASE PER STD. DWG C-3.1.10
  - WATER MAIN CROSSING EXISTING UTILITY PER STD. DRAWING C-3.18.
  - PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
  - INSTALL JOINT RESTRAINTS FOR USE WITH C-900 PVC WATER PIPE TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS.
  - CUT, PLUG AND SLURRY FILL ALL EXISTING SEWER/WATER MAINS ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
  - POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
  - PROTECT-IN-PLACE
  - REMOVE EXISTING FIRE HYDRANT, RETURN TO CARSON CITY PUBLIC WORKS WAREHOUSE
  - REMOVE EXISTING WATER VALVE, INSTALL BLIND FLANGE
  - ADJUST MANHOLE COVER & FRAME TO NEW FINISH GRADE, PER STD. DWG C-2.1.5.
  - ADJUST WATER VALVE BOX & COVER TO NEW FINISH GRADE, PER STD. DWG C-3.1.4.
  - INSTALL NEW 3/4" WATER SERVICE PER STD. DRAWING C-3.2.1, WITH 3/4" SINGLE FIT SETTER PER STD. DRAWING C-3.2.3.
  - INSTALL NEW 3/4" WATER SERVICE PER STD. DRAWING C-3.2.1, RELOCATE EXISTING METER AND BOX, PER DETAIL 1, SHEET C28. ABANDON EXISTING METER LOCATION, PATCH EXISTING SIDEWALK.
  - LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
  - BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
  - LIMITS FOR SAW-CUT, REMOVAL & REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
  - LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC VALLEY GUTTER SHALL BE PER STD. DRAWING C-5.1.2
  - CONSTRUCT NEW PCC VALLEY GUTTER PER STD. DRAWING C-5.1.2.
  - CONSTRUCT MODIFIED PERPENDICULAR CURB RAMP APEX, PER STD. DWG C-5.3.3. MATCH EXISTING LINE & GRADE.
  - CONSTRUCT PARALLEL CURB RAMP APEX, PER STD. DWG C-5.3.5. MATCH EXISTING SIDEWALK WIDTH, LINE & GRADE.
  - CONSTRUCT LINEAR CURB RAMP SINGLE ADJACENT, PER STD. DWG C-5.3.8. MATCH EXISTING SIDEWALK WIDTH, LINE & GRADE.
  - CONSTRUCT PCC DRIVEWAY APRON TYPE 1, PER STD. DRAWING C-5.2.3. MATCH EXISTING LINE AND GRADE AT CURB LINE. DRIVEWAY TRANSITION LENGTH PER PLAN.
  - CONSTRUCT PCC CURB & GUTTER TYPE 1, PER STD. DRAWING C-5.1.3.
  - CONSTRUCT PCC CURB & GUTTER TYPE 2, PER STD. DRAWING C-5.1.4.
  - CONSTRUCT PCC CURB TRANSITION PER DETAIL 1, SHEET C23.
  - SAWCUT & REMOVE EXISTING PCC DRIVEWAY SLAB TO LIMITS SHOWN FOR NEW UTILITY INSTALLATION. REPLACEMENT CONCRETE SHALL BE 8 INCHES THICK, OVER 6 INCHES COMPACTED TYPE 2 AGGREGATE BASE. TOOLED JOINTS AND FINISH TO MATCH ADJACENT CONCRETE SURFACE.
  - CONSTRUCT P.C.C. RETAINING CURB PER STD. DRAWING C-5.3.10.
  - RELOCATE EXISTING FENCE AS REQUIRED FOR NEW CURB RAMP CONSTRUCTION.
  - RELOCATE EXISTING STREET LIGHT POLE AND FOUNDATION. CONTRACTOR TO DIG 18" DIAMETER BY 6'-6" DEEP HOLE AND PLACE SONOTUBE. NV ENERGY WILL SET AND PROVIDE POWER TO NEW POLE LOCATION.
  - PAINT 24" WIDE SOLID WHITE STOP BAR, PER STD. DWG C-5.4.3
  - PAINT 24" WIDE SOLID WHITE CROSSWALK LEGEND, PER STD. DWG C-5.4.3
  - PAINT SOLID WHITE YIELD LINE, PER STD. DWG C-5.4.4
  - RELOCATE EXISTING SIGN & POST, PER STD. DWG C-5.4.2
  - INSTALL TRAFFIC SIGN & POST, PER STD. DWG C-5.4.2
  - ALL EXISTING SURVEY CONTROL MONUMENTS WHICH ARE DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED PER STD. DWG C-5.5.3. RE-ESTABLISHMENT OF SURVEY CONTROL MARKERS SHALL BE COMPLETED BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR.

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DESIGNED BY:	DGR/DSA
DRAWN BY:	DGR
CHECKED BY:	DSA/DLR
DWG NO.:	5-1403-15.DWG
SCALE (HORIZ):	N/A
SCALE (VERT):	N/A
DATE:	4/23/15

**CARSON CITY  
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2555 FAX: 775-887-2112



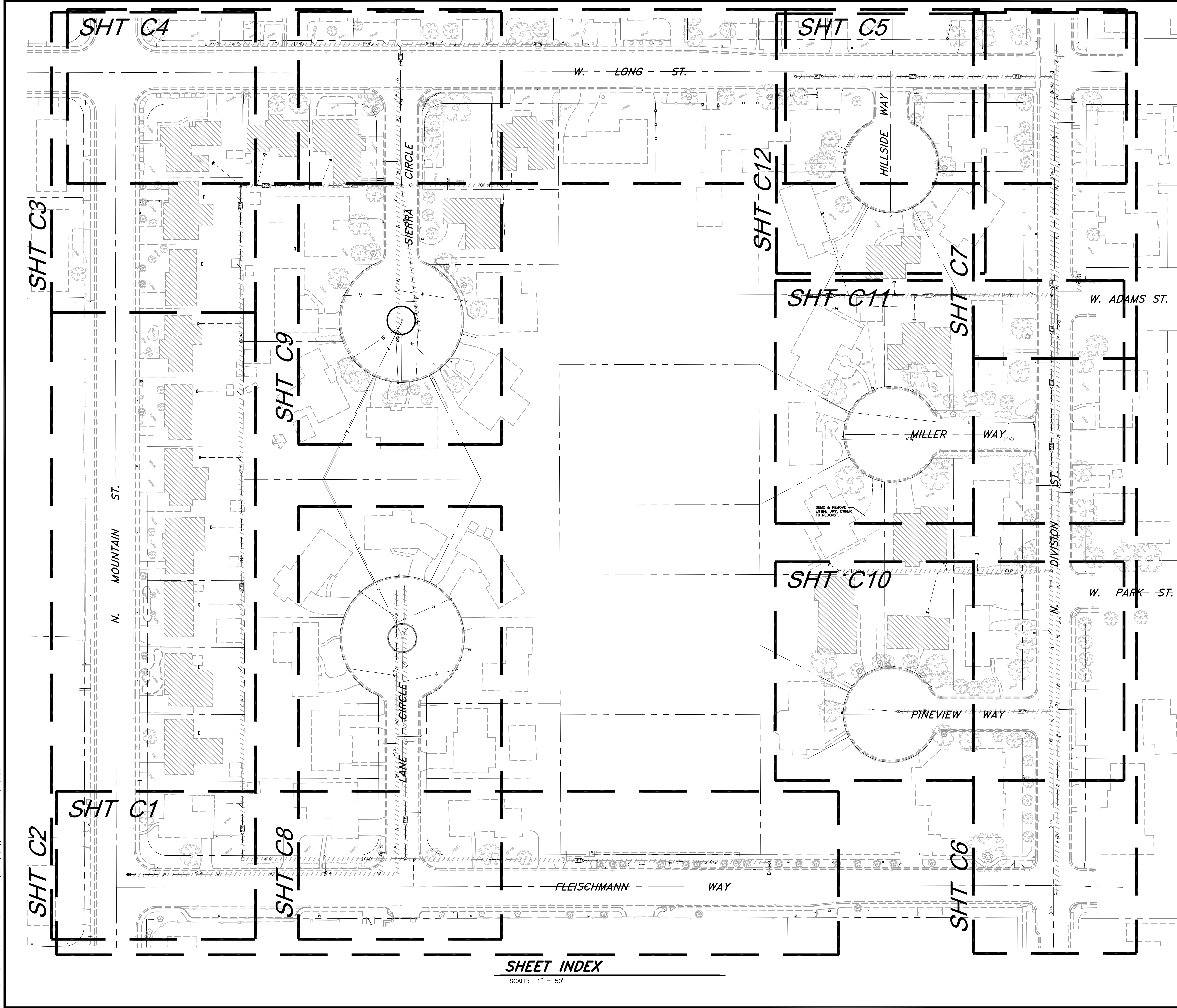
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**MOUNTAIN STREET  
UTILITY REHABILITATION PROJECT  
PROJECT No. 5.1403**

**GENERAL CONSTRUCTION NOTES**

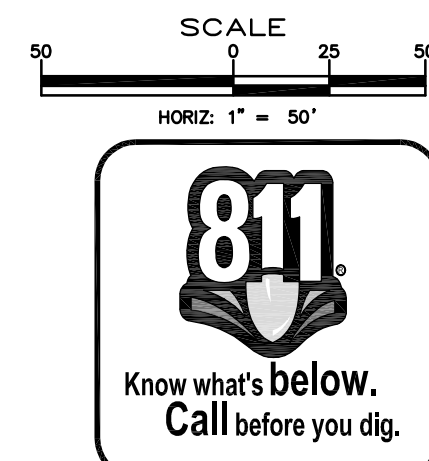


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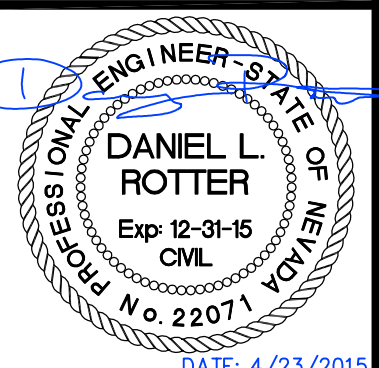
**SHEET INDEX**

SCALE: 1" = 50'



**MOUNTAIN STREET  
UTILITY REHABILITATION PROJECT  
PROJECT No. 5.1403  
SHEET INDEX**

REV.	DATE	DESCRIPTION	BY	APP'D



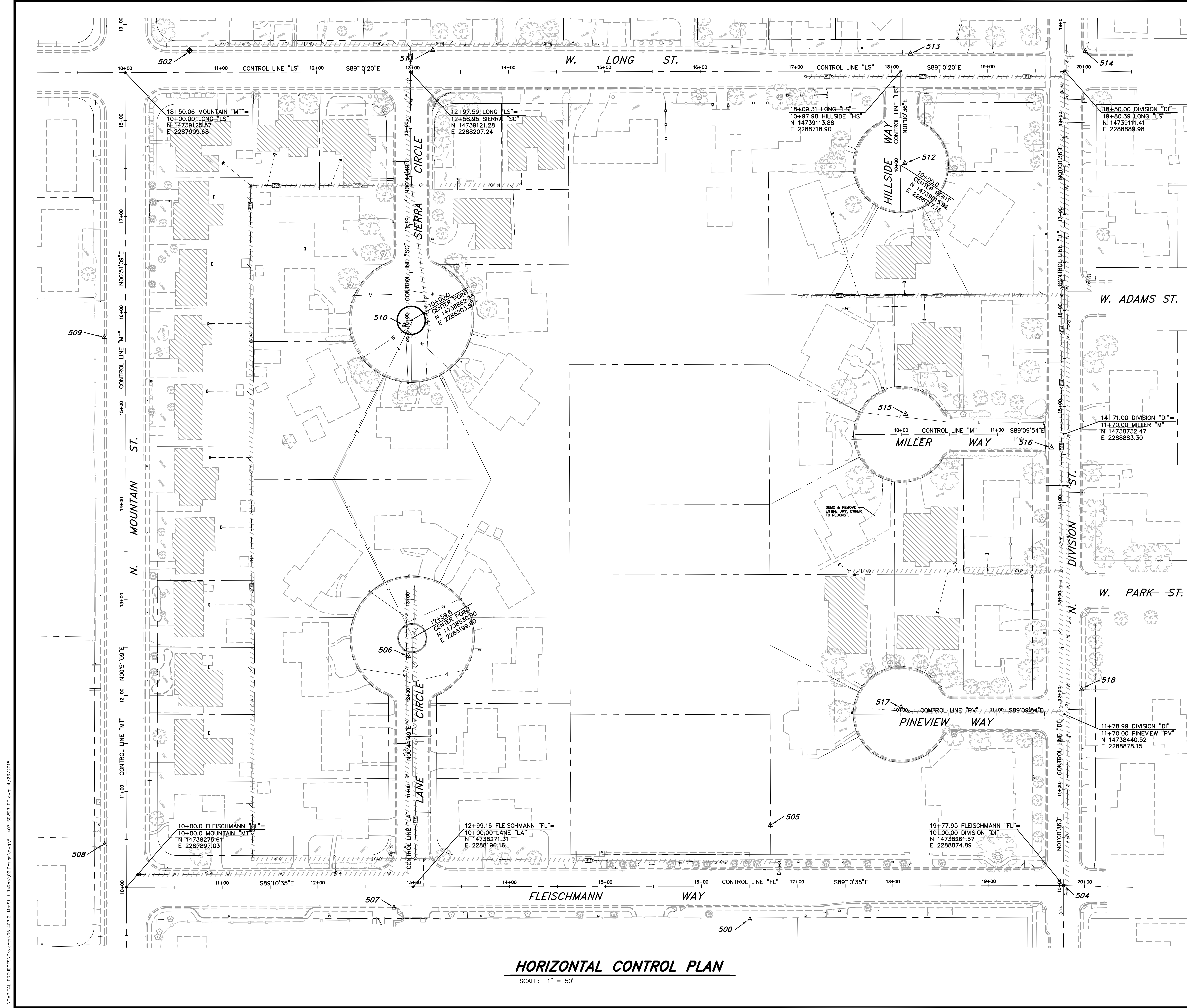
**CARSON CITY  
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355 FAX: 775-887-2112

DESIGNED BY: DGB/DSA  
DRAWN BY: DCR  
CHECKED BY: DSA/DLR  
DWG NO.: 5-1403 SEWER PP.DWG  
SCALE (HORIZ): 1" = 50'  
SCALE (VERT): N/A  
PLOT DATE: 4/23/15

SHEET  
**G4**  
OF  
**40**





### BASIS OF BEARINGS

IDENTICAL TO THAT RECORD OF SURVEY OF THE 2010 CARSON CITY CONTROL NETWORK, MAP No. 2749, OFFICIAL RECORD OF CARSON CITY, NEVADA

A COMBINED SCALE FACTOR OF 1.0002 WAS USED FOR GRID TO GROUND CONVERSION OF STATE PLANE COORDINATES

### BASIS OF ELEVATIONS

NAVD 88 BENCHMARK INFO:  
FOUND BRASS DISK SET ON CURB "CC028" (CONTROL PT# 502) OF 2010 CARSON CITY CONTROL NETWORK  
ELEVATION=4721.07'

### NOTE:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO REPLACE IN KIND ALL EXISTING SURVEY MONUMENTS DISTURBED OR DAMAGED DUE TO HIS CONSTRUCTION EFFORTS. RE-ESTABLISHMENT OF SURVEY MONUMENTS SHALL BE COMPLETED BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR.

### NOTES

- THE FIELD SURVEY WAS CONDUCTED APRIL 4TH TO 8TH, 2014.
- ADD 4700' TO SPOT ELEVATIONS.
- CONTOURS ARE 1' (FOOT) INTERVAL.

### HORIZONTAL & VERTICAL CONTROL DATA

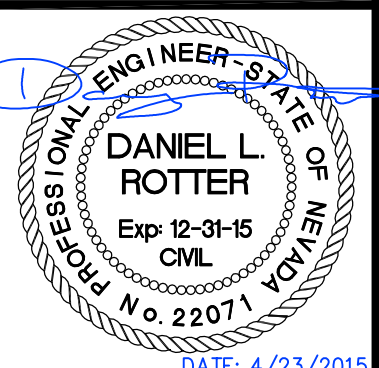
PT#	NORTHING	EASTING	ELEV	DESCRIPTION
500	14738231.46	2288547.32	4710.82	BASE
501	14737165.82	2287901.32	4713.23	CC026 (NOT SHOWN)
502	14739147.40	2287977.44	4721.07	CC028
503	14739124.51	2291576.27	4695.43	CC084 (NOT SHOWN)
504	14738261.57	2288874.89	4707.98	CLMON 5-8RRR
505	14738329.69	2288570.32	4711.11	ALCAP SEC COR 7-8-17-18
506	14738511.99	2288195.50	4716.43	SET MAG
507	14738249.82	2288176.05	4714.97	SET MAG
508	14738320.55	2287875.23	4717.57	SET SPK
509	14738849.75	2287883.67	4719.92	SET SPK
510	14738857.26	2288196.44	4720.39	SET MAG
511	14739143.70	2288231.15	4718.89	SET MAG
512	14739017.97	2288721.74	4716.22	SET MAG
513	14739131.77	2288729.51	4715.03	SET MAG
514	14739131.53	2288911.98	4714.07	SET MAG
515	14738756.23	2288718.39	4714.36	SET MAG
516	14738718.56	2288869.84	4712.06	SET MAG
517	14738450.17	2288708.57	4711.33	SET MAG
518	14738465.81	2288897.18	4709.65	SET MAG

- 501 LOCATED ON THE EAST SIDE OF MOUNTAIN STREET, APPROX 70' NORTH OF THE INTERSECTION OF MOUNTAIN ST. & W. WASHINGTON ST.
- 503 LOCATED IN THE TOP OF CURB, ADJACENT TO A SIDEWALK APPROX. 30' EAST OF THE WEST ENTRANCE TO 900 EAST LONG ST, APPROX 45' NORTH OF THE CENTERLINE OF EAST LONG ST.



DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1"=50'  
 SCALE (VERT): N/A  
 PLOT DATE: 4/23/15

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



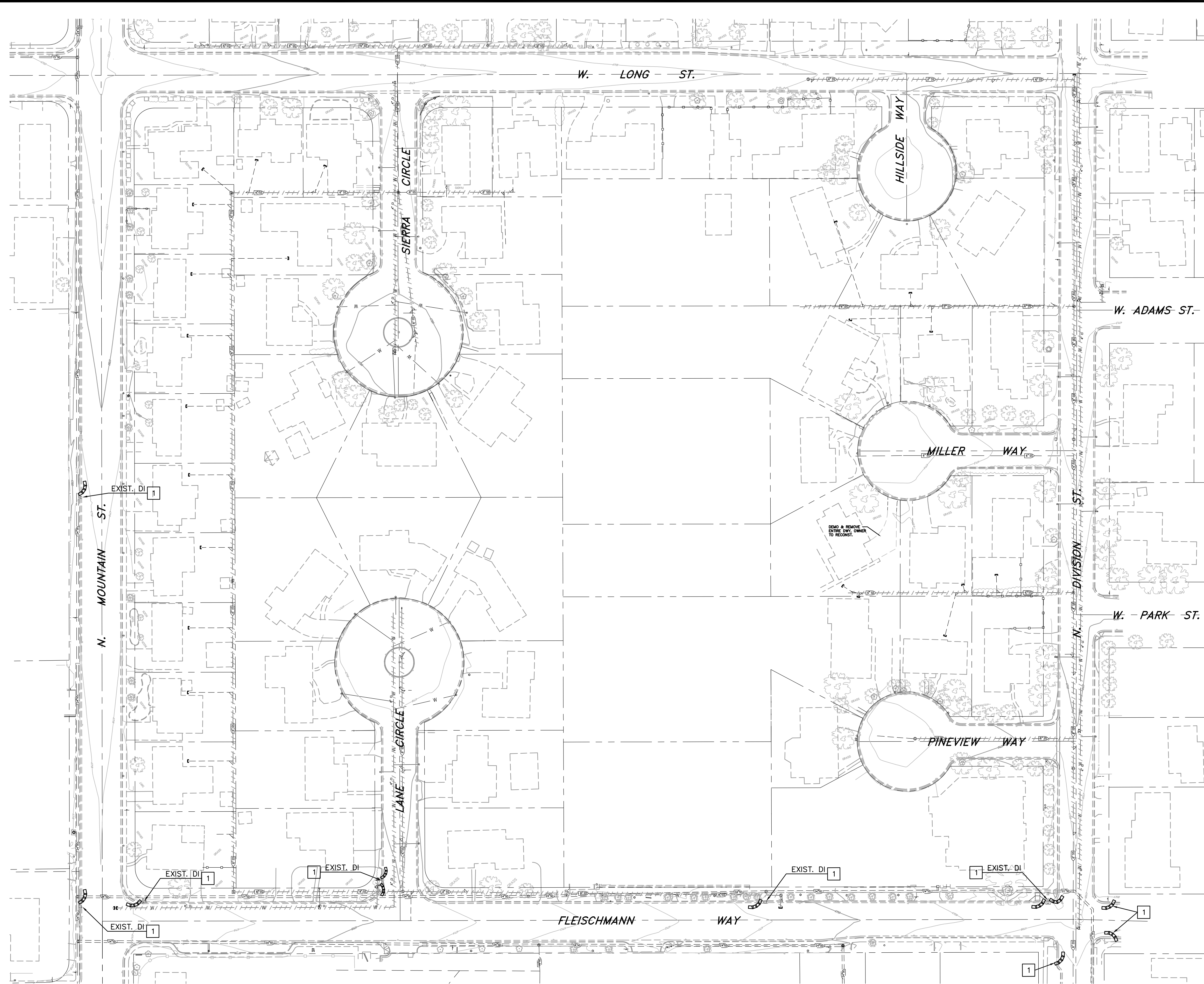
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**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT  
 PROJECT No. 5.1403**  
**HORIZONTAL CONTROL PLAN**

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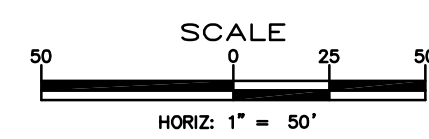


### STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1" = 50'

### STORM WATER POLLUTION PREVENTION NOTES:

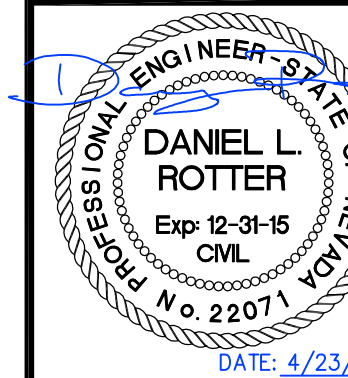
- 1 INSTALL STORM DRAIN INLET PROTECTION PER STD. DWG C-4.1.7



**MOUNTAIN STREET  
UTILITY REHABILITATION PROJECT  
PROJECT No. 5.1403  
STORM WATER  
POLLUTION PREVENTION PLAN**

SHEET  
**G6**  
OF  
**40**

REV.	DATE	DESCRIPTION	BY	APP'D



**CARSON CITY  
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355 FAX: 775-887-2112

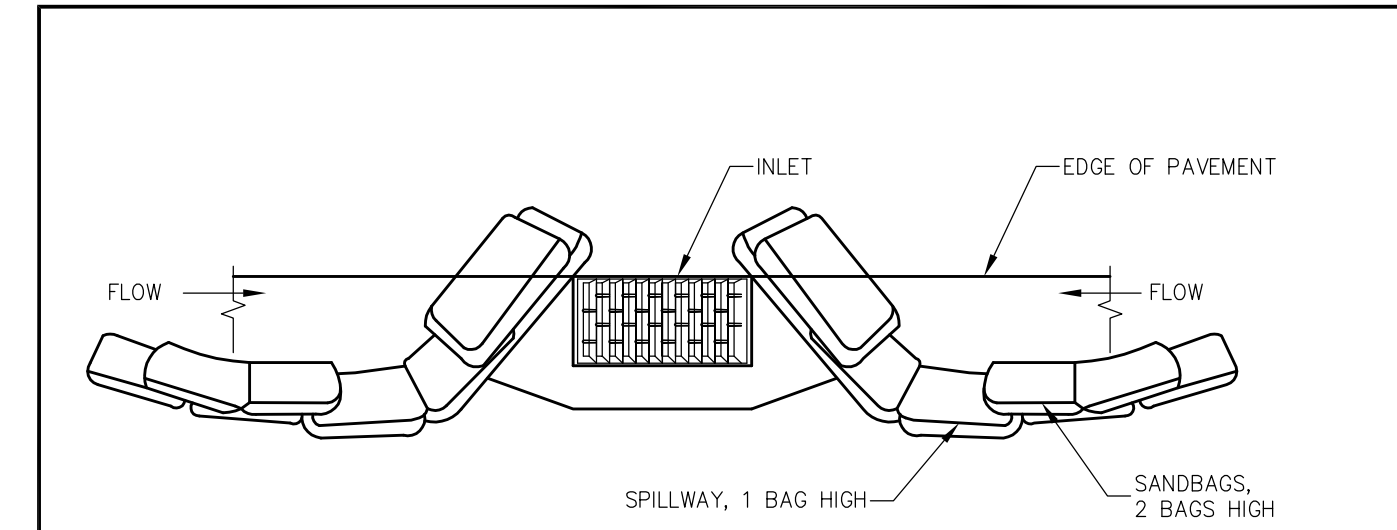
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DRAWN BY: DCR  
CHECKED BY: DSA/DLR  
DWG NO.: 5-1403 SEWER PP.DWG  
SCALE (HORIZ): 1" = 50'  
SCALE (VERT): N/A  
PLOT DATE: 4/23/15



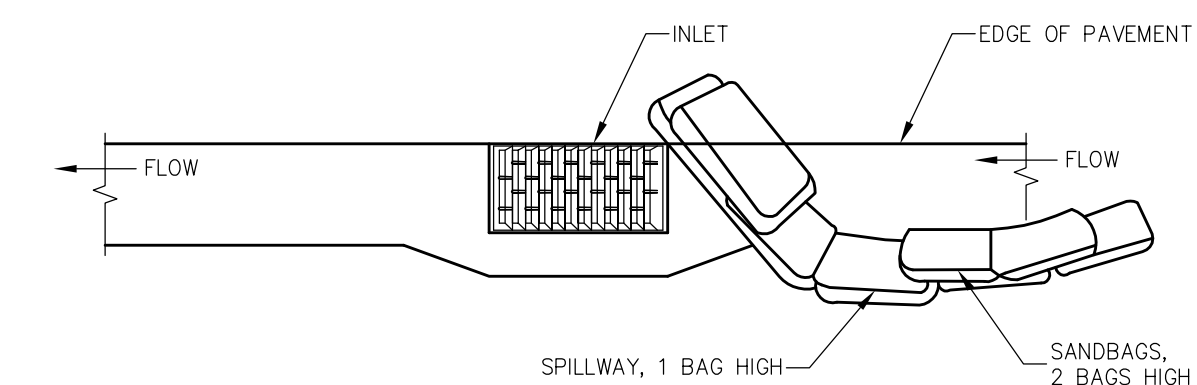
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**STORMWATER PROTECTION NOTES:**

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM WATER PROTECTION DEVICES IN ACCORDANCE WITH THE "NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES" AND DETAILS AS SHOWN.
2. ALL INSTALLED PROTECTION DEVICES SHALL BE INSPECTED AND APPROVED BY THE CARSON CITY CONSTRUCTION INSPECTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. BMP'S IN ADDITION TO THOSE INDICATED ON PLAN SHEET G6, AND THE CONTRACTOR'S SWPPP MAY BE REQUIRED IF THEY DON'T MEET LOCAL PERFORMANCE STANDARDS.
4. ALL BMPs MUST BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, AND WITHIN 24 HOURS AFTER ANY EVENT THAT CREATES RUNOFF AT THE SITE.
5. ACCUMULATED SEDIMENT MUST BE REMOVED FROM BMPs WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE. SEDIMENT MUST ALSO BE REMOVED WITHIN SEVEN DAYS AFTER A RUNOFF EVENT OR PRIOR TO THE NEXT FORECASTED RAIN EVENT WHICHEVER IS EARLIER.
6. IF THE ENTRANCE STABILIZATION IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.
7. ANY ROCK THAT IS LOOSENEED FROM THE ENTRANCE STABILIZATION PAD, WHICH END UP ON THE PAVED ROADWAY SHALL BE REMOVED IMMEDIATELY.
8. CONTRACTOR SHALL INSPECT LOCAL ROADS ADJACENT TO THE SITE DAILY, SWEEP OR VACUUM TO REMOVE ANY VISIBLE ACCUMULATED SEDIMENT.
9. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED BY SHOVELING, STREET SWEEPING OR VACUUMING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DUST CONTROL WITHIN THE CONSTRUCTION LIMITS AT ALL TIMES.
11. STORM DRAIN INLET PROTECTION SHALL BE PLACED ACCORDINGLY ON THE NEAREST INLETS DOWNSTREAM OF ALL CONSTRUCTION ACTIVITIES.
12. HIGH VISIBILITY ORANGE SILT FENCE SHALL BE INSTALLED PER THE DETAILS SHOWN HEREON, AND MAINTAINED THROUGH OUT THE PROJECT.
13. THE CONTRACTOR OR HIS QUALIFIED AGENT IS REQUIRED TO ROUTINELY INSPECT ALL AREAS OF DISTURBED AND BARE SOIL, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, ONSITE VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL ONSITE EROSION AND SEDIMENT CONTROL BMPs.



**TYPICAL PROTECTION FOR INLET ON SUMP**  
NTS



**TYPICAL PROTECTION FOR INLET ON GRADE**  
NTS

**NOTES:**

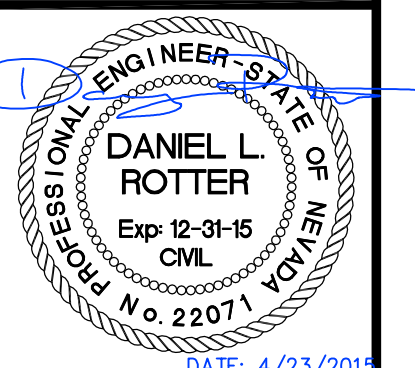
1. INTENDED FOR TEMPORARY SHORT-TERM USE.
2. USE TO MANAGE CURB WATER FLOW.
3. SEDIMENT CAPTURED BEHIND SANDBAGS SHALL BE REMOVED WEEKLY DURING CONSTRUCTION.
4. INLET PROTECTION MUST BE PROPERLY MAINTAINED WHILE IN PLACE AND REMOVED WHEN REQUIREMENTS OF NDEP PERMIT HAVE BEEN MET.
5. SANDBAGS SHALL BE FILLED WITH 3/4 INCH WASHED ROCK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	ADDED NOTE #5	2/13		CARSON CITY
				DRAWING NO.
				C-4.1.7
				DATE
				7/2009

**STORM DRAIN INLET PROTECTION**

DESIGNED BY: DGB/DCA  
 DRAWN BY: DCR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): N/A  
 SCALE (VERT): N/A  
 PLOT DATE: 4/23/15

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112

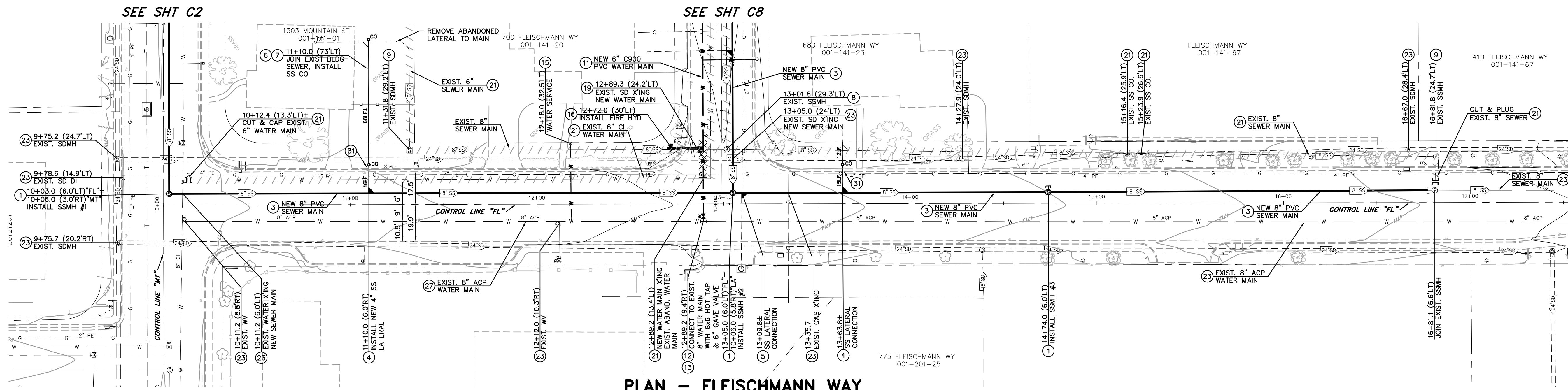


REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT  
 PROJECT No. 5.1403  
 STORM WATER  
 POLLUTION PREVENTION PLAN  
 NOTES & DETAILS**

SHEET  
**G7**  
 OF  
**40**





**PLAN - FLEISCHMANN WAY**

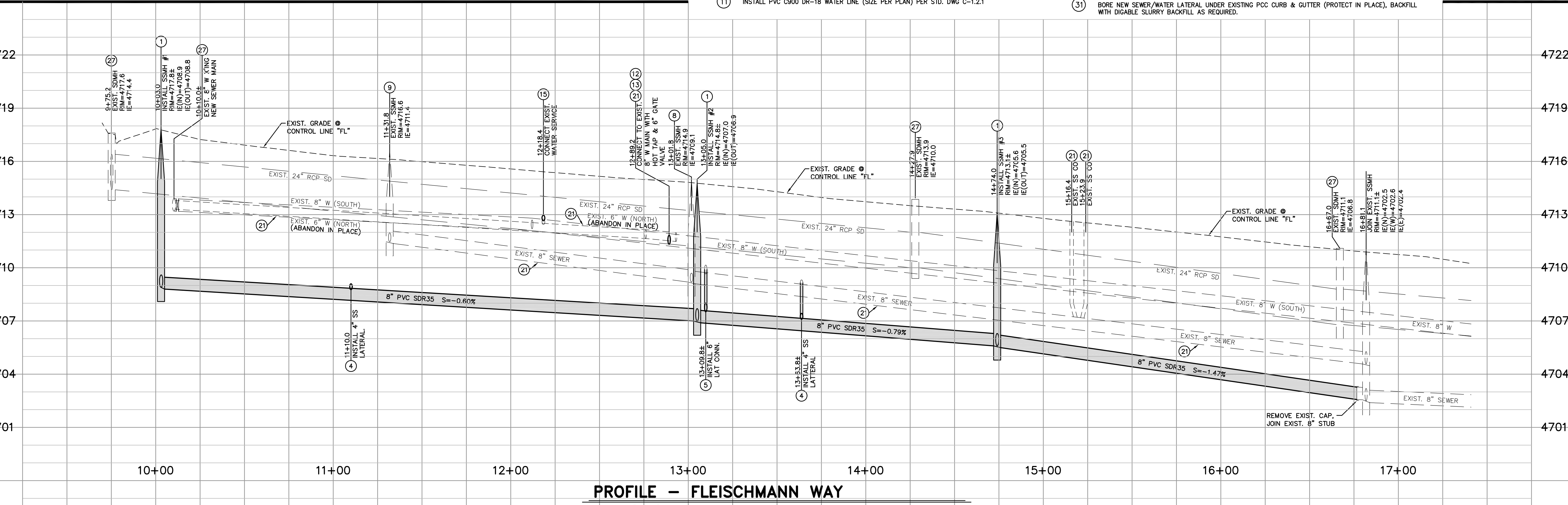
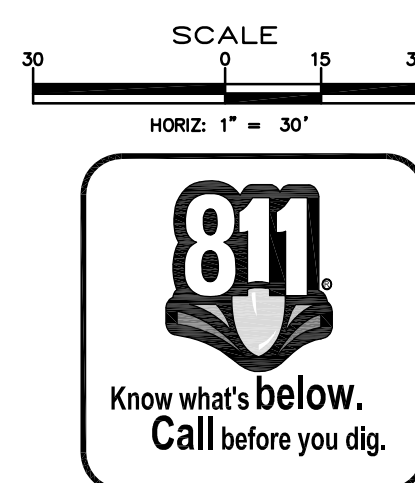
SCALE: 1" = 30'  
 REFERENCE SHEETS C14 & C15 FOR STREET IMPROVEMENTS

**LEGEND:**  
 AREAS OF SPECIAL CONSTRUCTION PER WATER/SEWER SEPARATION GUIDELINES & SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES.

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVISED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION NOTES:**

- 1 INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 3 INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 4 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 5 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
- 6 INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 7 EXTEND SEWER LATERAL AS REQUIRED. CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 8 DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC
- 9 ABANDON EXISTING SANITARY SEWER MANHOLE IN PLACE PER DETAIL 1, SHT C27.
- 11 INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
- 12 INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
- 13 INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
- 15 INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX, INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
- 19 PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
- 21 CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 22 POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
- 23 PROTECT-IN-PLACE
- 31 BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.

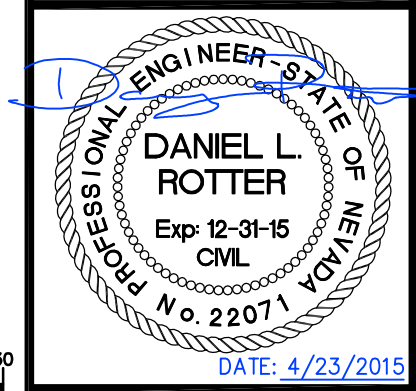


**PROFILE - FLEISCHMANN WAY**

SCALE: 1" = 30' HORIZ.  
 3" = 1' VERT.

DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112

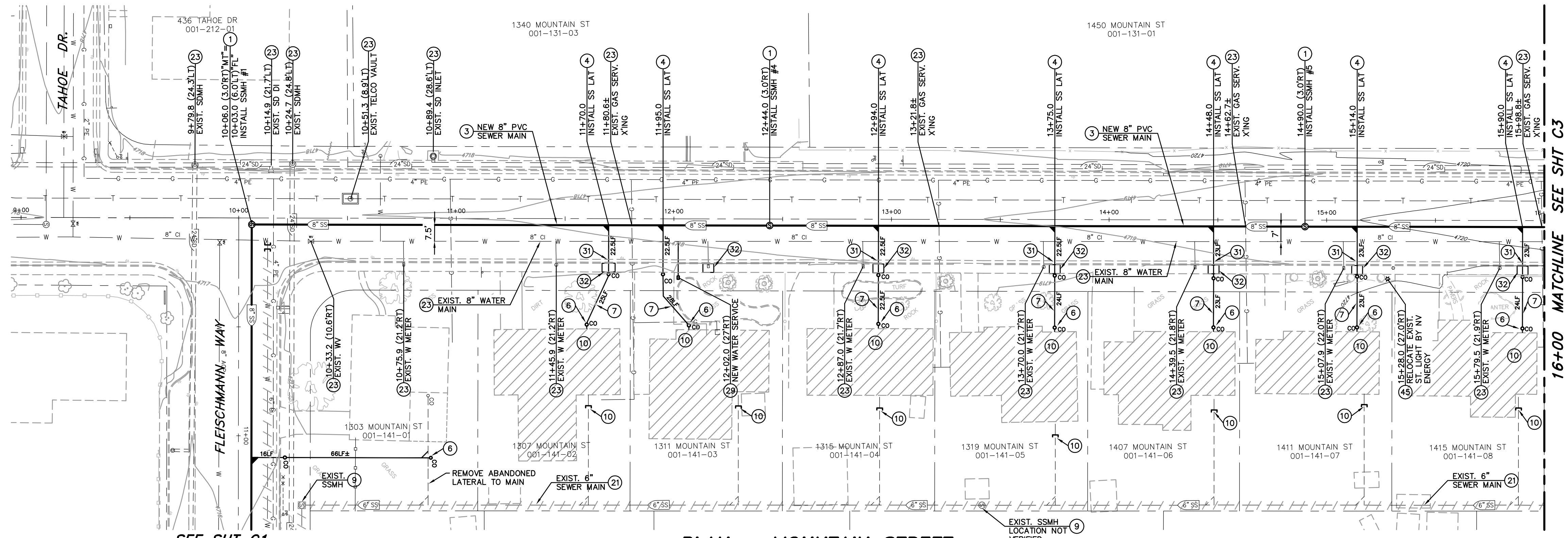


REV.	DATE	DESCRIPTION

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT**  
**PROJECT No. 5.1403**  
**FLEISCHMANN WAY UTILITY PLAN & PROFILE**  
**STA 10+00 TO STA 17+00**

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**PLAN - MOUNTAIN STREET**

SCALE: 1" = 30' HORIZ.  
 REFERENCE SHEET C16 FOR STREET IMPROVEMENTS

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

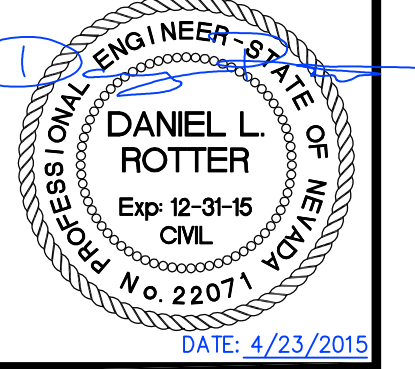
**CONSTRUCTION NOTES:**

- 1 INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 3 INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 4 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 6 INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 7 EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 9 ABANDON EXISTING SANITARY SEWER MANHOLE IN PLACE PER DETAIL 1, SHT C27.
- 10 REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
- 21 CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 23 PROTECT-IN-PLACE
- 29 INSTALL NEW 3/4" WATER SERVICE PER STD. DRAWING C-3.2.1. RELOCATE EXISTING WATER METER AND BOX PER DETAIL 1, SHEET C28. ABANDON EXISTING METER LOCATION, PATCH EXISTING SIDEWALK.
- 31 BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
- 32 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
- 38 CONSTRUCT PCC DRIVEWAY APRON TYPE 1, PER STD DRAWING C-5.2.3. DRIVEWAY TRANSITION LENGTH PER PLAN.
- 45 RELOCATE EXISTING STREET LIGHT POLE AND FOUNDATION. CONTRACTOR TO DIG 18" DIAMETER BY 6'-6" DEEP HOLE AND PLACE SONOTUBE. NV ENERGY WILL SET AND PROVIDE POWER TO NEW POLE LOCATION.

SCALE  
 HORIZ: 1" = 30'

DESIGNED BY: DGB/DCA  
 DRAWN BY: DGB  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



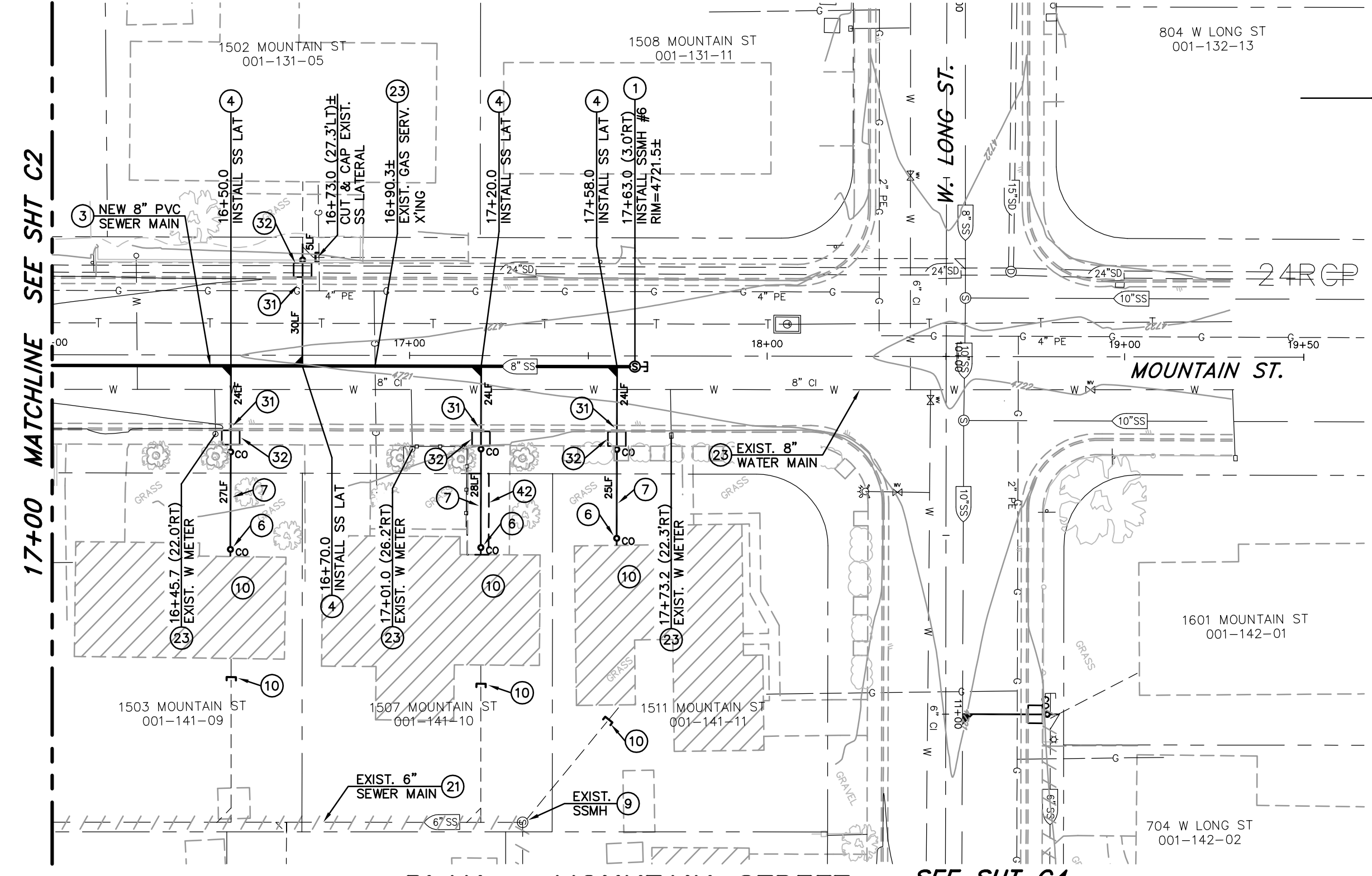
REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT No. 5.1403**  
**MOUNTAIN STREET UTILITY PLAN & PROFILE**  
 STA 10+00 TO STA 16+00

SHEET  
**C2**  
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**40**

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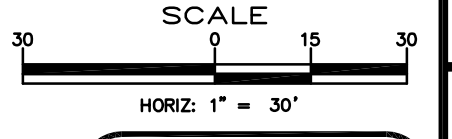
**PLAN - MOUNTAIN STREET** SEE SHIT C4  
 SCALE: 1" = 30' HORIZ.  
 REFERENCE SHEET C17 FOR STREET IMPROVEMENTS

**CONSTRUCTION NOTES:**

- 1 INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 3 INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 4 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 6 INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 7 EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 9 ABANDON EXISTING SANITARY SEWER MANHOLE IN PLACE PER DETAIL 1, SHIT C27.
- 10 REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
- 21 CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 23 PROTECT-IN-PLACE
- 31 BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
- 32 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2. REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
- 42 SAWCUT AND REMOVE EXISTING PCC DRIVEWAY SLAB TO LIMITS SHOWN FOR NEW UTILITY INSTALLATION. REPLACEMENT CONCRETE SHALL BE 6 INCHES THICK, OVER 6 INCHES COMPACTED TYPE 2 AGGREGATE BASE. TOOLED JOINTS AND FINISH TO MATCH ADJACENT CONCRETE SURFACE.

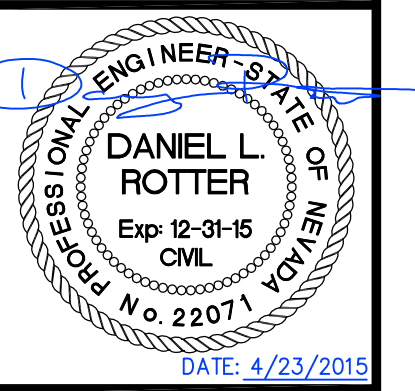
**NOTE:**

THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.



DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112

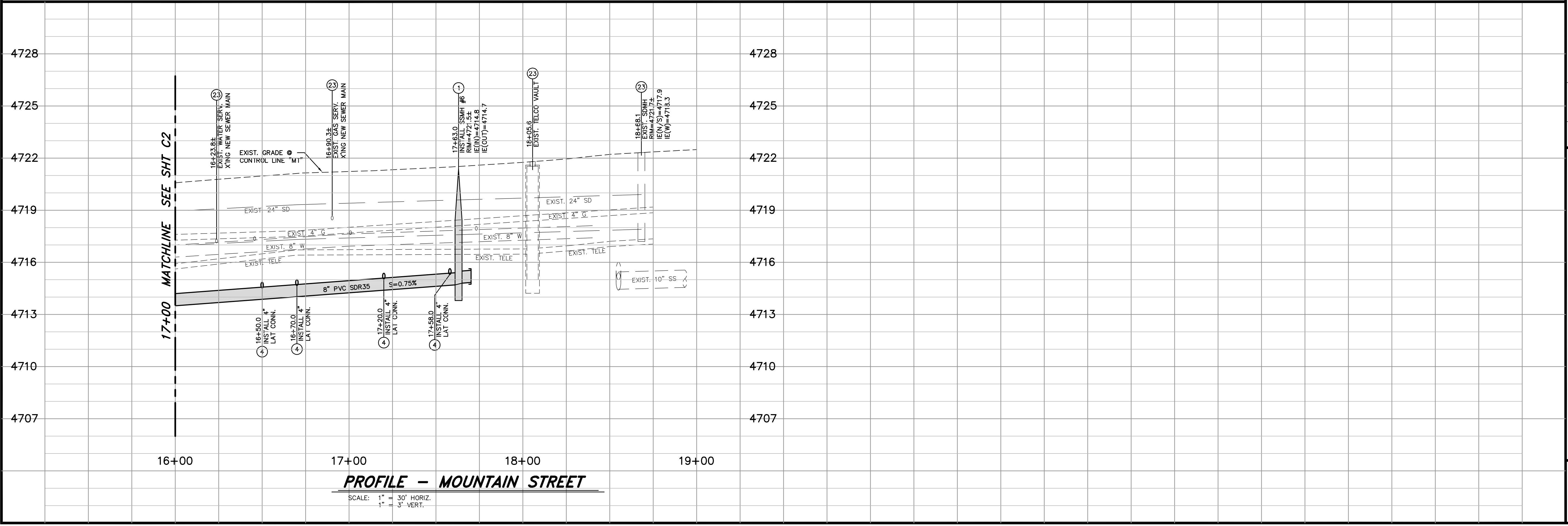


REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT**  
**PROJECT No. 5.1403**  
**MOUNTAIN STREET UTILITY PLAN & PROFILE**  
**STA 16+00 to STA 19+00**

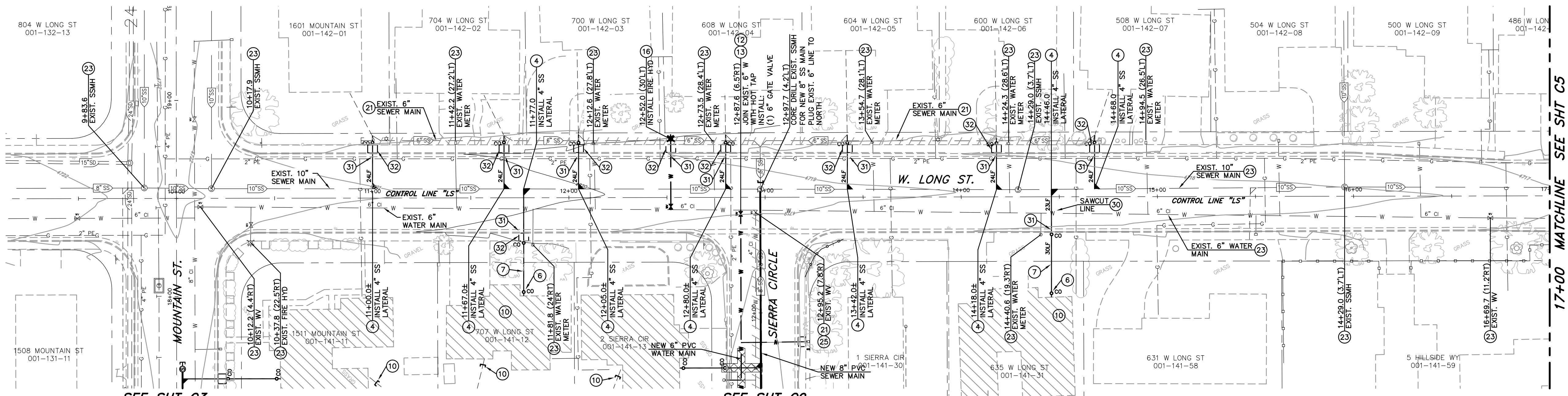
SHEET **C3** OF **40**

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**PROFILE - MOUNTAIN STREET**  
 SCALE: 1" = 30' HORIZ.  
 1" = 3" VERT.



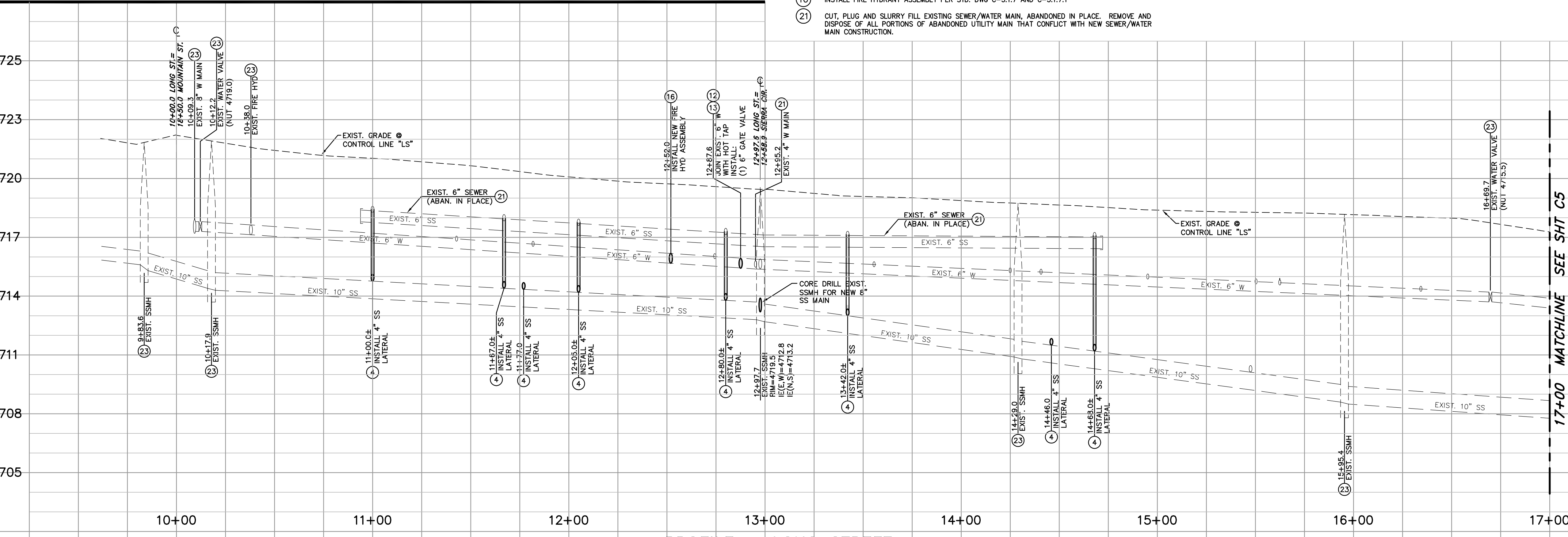


**PLAN - LONG STREET**  
 SCALE: 1" = 30'  
 REFERENCE SHEET C18 FOR STREET IMPROVEMENTS

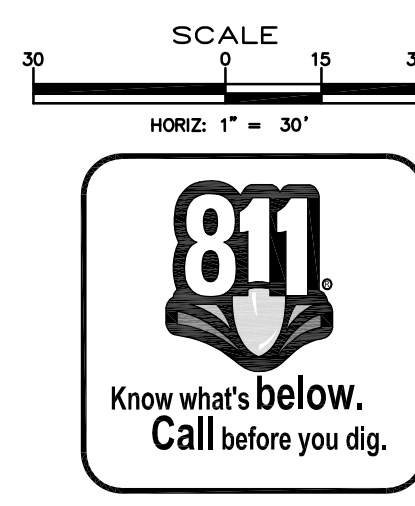
**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION NOTES:**

- (4) INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- (6) INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- (7) EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- (10) REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
- (12) INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
- (14) INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
- (16) INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
- (21) CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- (22) POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
- (23) PROTECT-IN-PLACE
- (25) REMOVE EXISTING WATER VALVE, INSTALL BLIND FLANGE
- (30) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
- (31) BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
- (32) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVE & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.



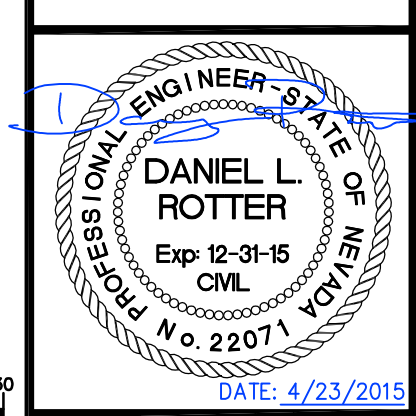
**PROFILE - LONG STREET**  
 SCALE: 1" = 30' HORIZ.  
 1" = 3' VERT.



DESIGNED BY: DGB/DCA  
 DRAWN BY: DGB  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION

**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT  
 PROJECT No. 5.1403  
 LONG STREET  
 UTILITY PLAN & PROFILE  
 STA 10+00 TO STA 17+00**

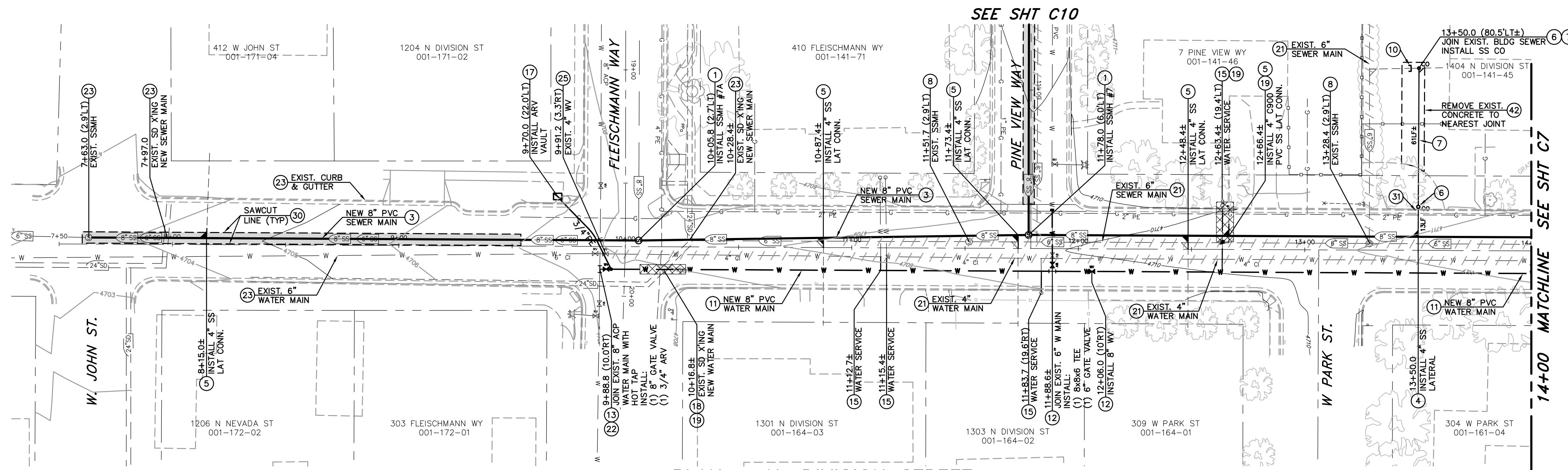
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**PLAN - N. DIVISION STREET**

SCALE: 1" = 30'  
REFERENCE SHEET C19 FOR STREET IMPROVEMENTS

**LEGEND:**

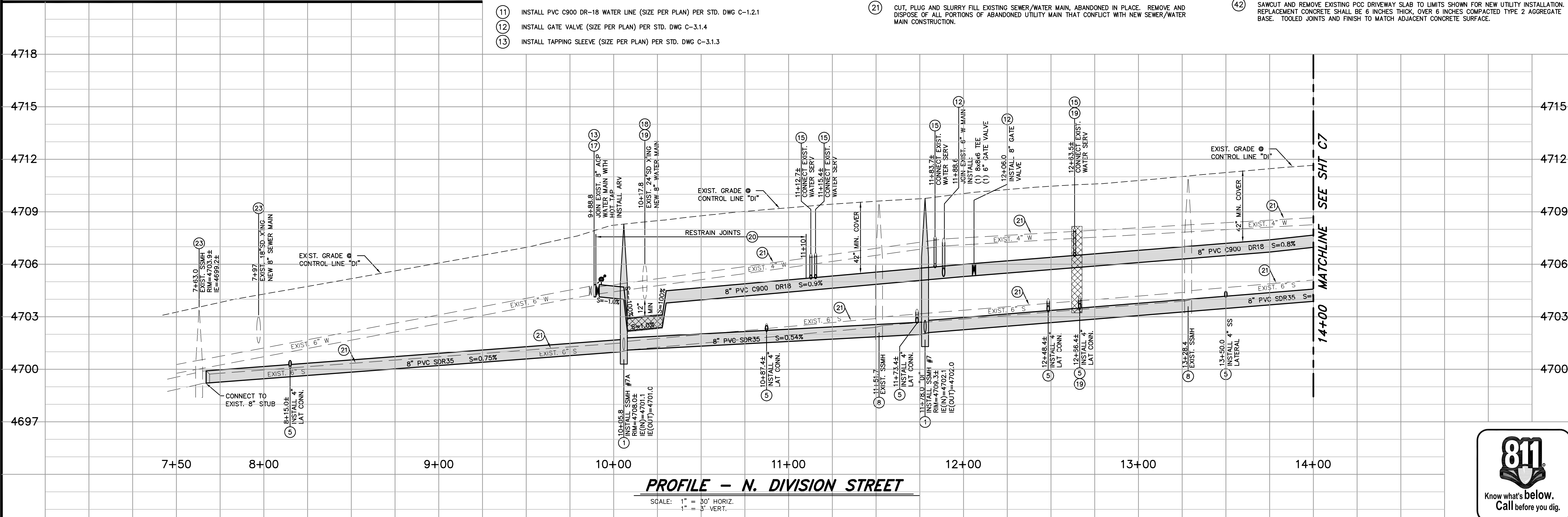
Areas of special construction per water/sewer separation guidelines & special construction/vertical crossing conflicts notes.

**NOTE:**

THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION NOTES:**

- 1. INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 2. INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 3. INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 4. INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
- 5. INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 6. EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 7. DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
- 8. INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
- 9. INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
- 10. INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
- 11. INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2. EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX, INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
- 12. INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
- 13. INSTALL POTABLE WATER AIR RELEASE PER STD. DWG C-3.1.10
- 14. WATER MAIN CROSSING EXISTING UTILITY PER STD. DRAWING C-3.1.8.
- 15. PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
- 16. INSTALL JOINT RESTRAINTS FOR USE WITH C-900 PVC WATER PIPE TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS.
- 17. CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 18. POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
- 19. PROTECT-IN-PLACE
- 20. REMOVE EXISTING WATER VALVE, INSTALL BLIND FLANGE
- 21. LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
- 22. BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
- 23. LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2. REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
- 24. LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC VALLEY GUTTER SHALL BE PER STD. DRAWING C-5.1.2
- 25. SAWCUT AND REMOVE EXISTING PCC DRIVEWAY SLAB TO LIMITS SHOWN FOR NEW UTILITY INSTALLATION. REPLACEMENT CONCRETE SHALL BE 6 INCHES THICK, OVER 6 INCHES COMPACTED TYPE 2 AGGREGATE BASE. TOOLED JOINTS AND FINISH TO MATCH ADJACENT CONCRETE SURFACE.



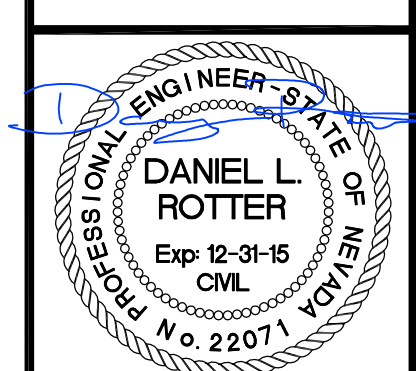
**PROFILE - N. DIVISION STREET**

SCALE: 1" = 30' HORIZ.  
1" = 3' VERT.



DESIGNED BY: DGB/DSA  
DRAWN BY: DGB  
CHECKED BY: DSA/DLR  
DWG NO.: 5-1403 SEWER PP.DWG  
SCALE (HORIZ): 1" = 30'  
SCALE (VERT): 1" = 3'  
PLOT DATE: 4/23/15

**CARSON CITY  
PUBLIC WORKS DEPARTMENT**  
3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355 FAX: 775-887-2112

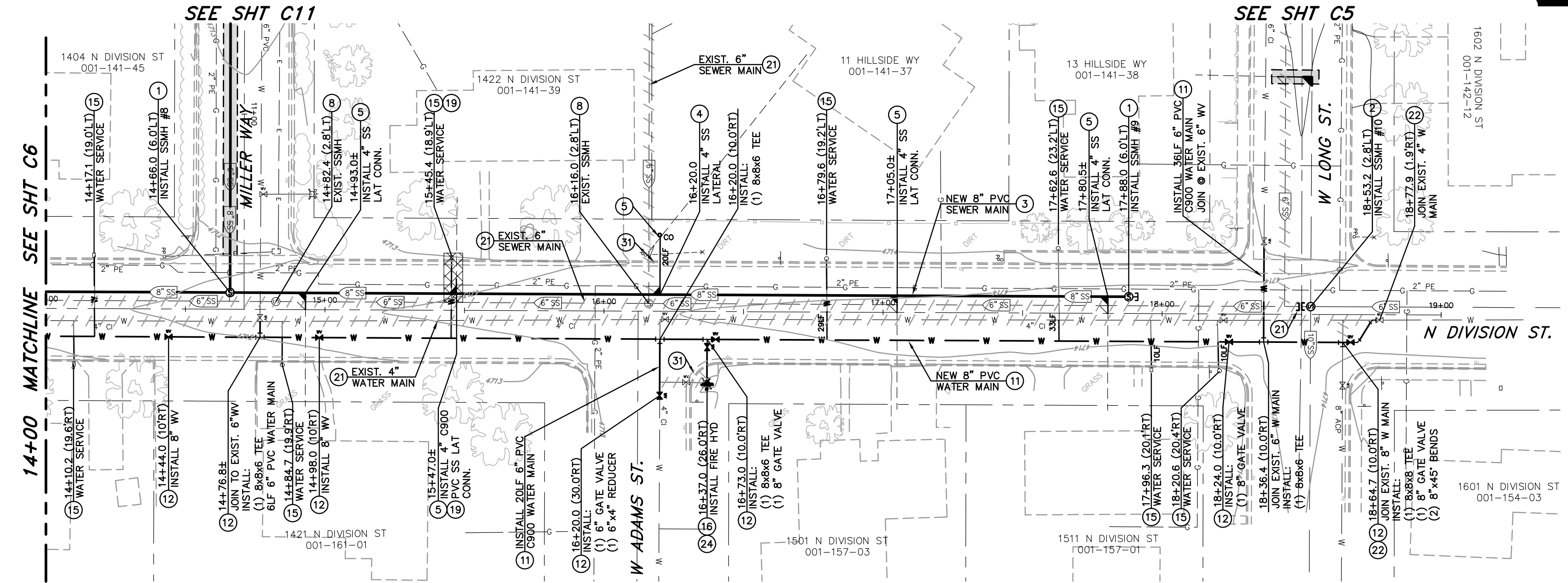


REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
UTILITY REHABILITATION PROJECT  
PROJECT No. 5.1403**  
**N. DIVISION STREET  
UTILITY PLAN & PROFILE  
STA 10+00 TO STA 15+50**

SHEET  
**C6**  
OF  
**40**





**LEGEND:**  
 AREAS OF SPECIAL CONSTRUCTION PER WATER/SEWER SEPARATION GUIDELINES & SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES.

**PLAN - N. DIVISION STREET**  
 SCALE: 1" = 30'  
 REFERENCE SHEET C20 FOR STREET IMPROVEMENTS

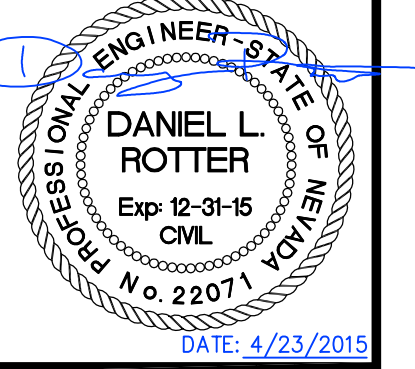
- CONSTRUCTION NOTES:**
- INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
  - INSTALL 60 INCH DROP MANHOLE PER STD DRAWING C-2.1.4
  - INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
  - INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
  - INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
  - DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
  - INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
  - INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
  - INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX. INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
  - INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
  - PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
  - CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
  - POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL.
  - PROTECT-IN-PLACE
  - REMOVE EXISTING FIRE HYDRANT, RETURN TO CARSON CITY PUBLIC WORKS WAREHOUSE.
  - REMOVE EXISTING WATER VALVE, INSTALL BLIND FLANGE
  - BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
  - LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

SCALE  
 HORIZ: 1" = 30'

DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

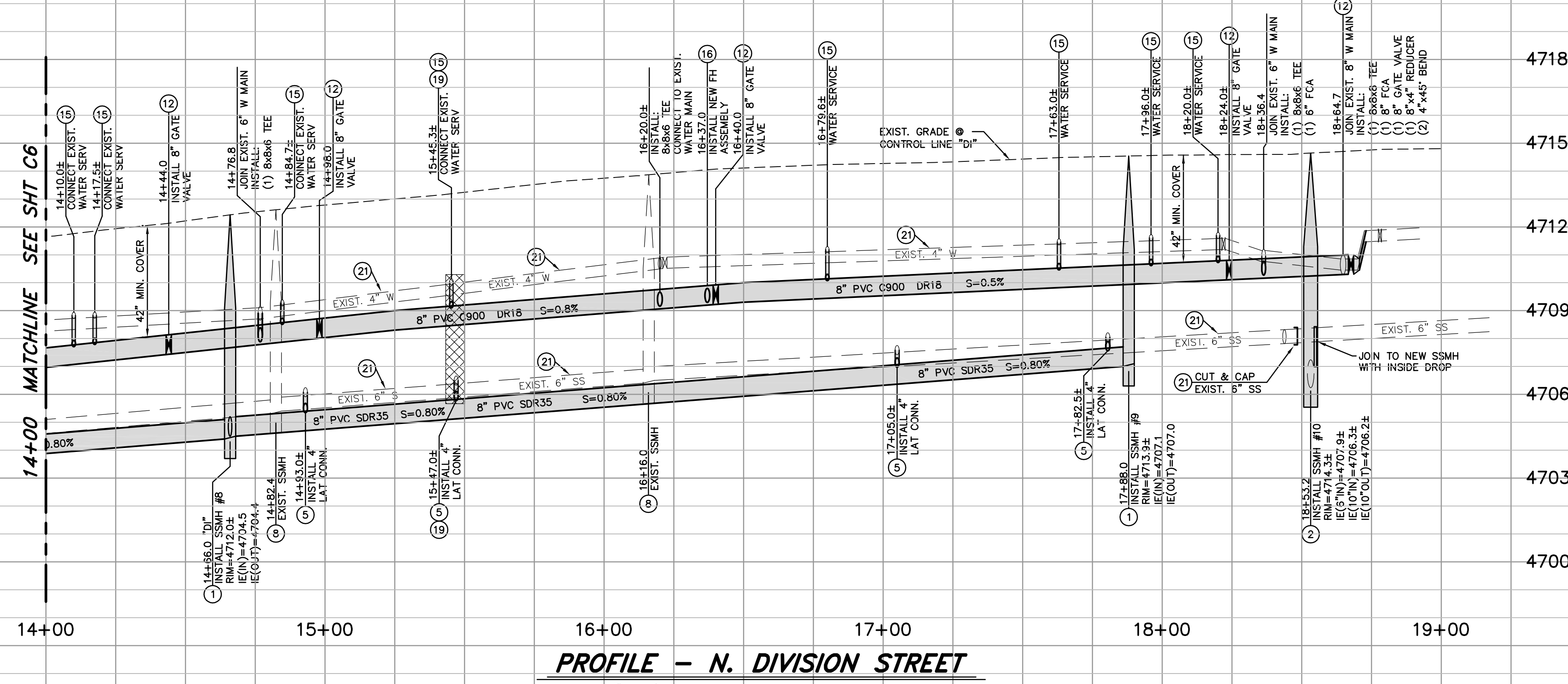
**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT**  
**PROJECT No. 5.1403**  
**N. DIVISION STREET UTILITY PLAN & PROFILE**  
**STA 15+50 TO STA 19+00**

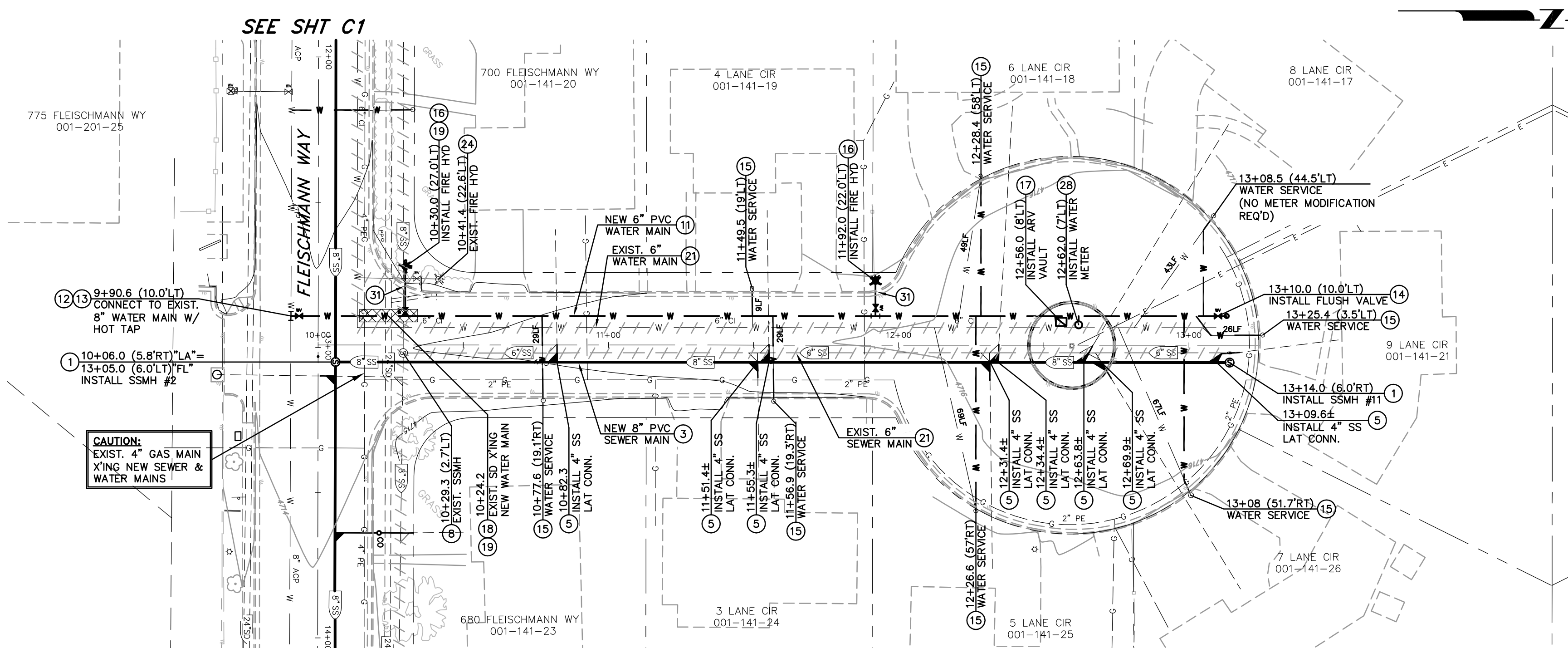
SHEET  
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**PROFILE - N. DIVISION STREET**  
 SCALE: 1" = 30' HORIZ.  
 1" = 3' VERT.

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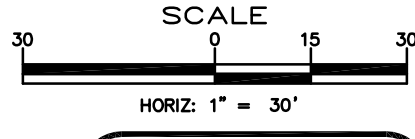
**PLAN - LANE CIRCLE**  
 SCALE: 1" = 30'  
 REFERENCE SHEET C21 FOR STREET IMPROVEMENTS  
 REFERENCE SHEET L51 FOR LANDSCAPE IMPROVEMENTS

**LEGEND:**  
 [Symbol] AREAS OF SPECIAL CONSTRUCTION PER WATER/SEWER SEPARATION GUIDELINES & SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES.

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVISED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

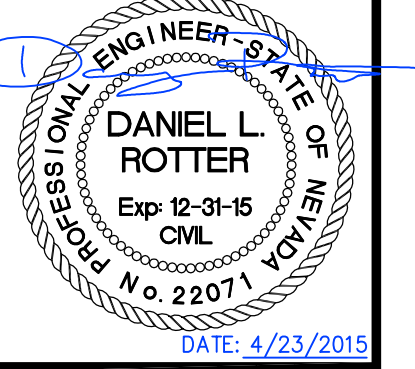
**CONSTRUCTION NOTES:**

1. INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
3. INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
5. INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
8. DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
11. INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
12. INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
13. INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
14. INSTALL PERMANENT FLUSH VALVE ASSEMBLY PER STD. DWG C-3.1.12
15. INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX, INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
16. INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
17. INSTALL POTABLE WATER AIR RELEASE PER STD. DWG C-3.1.10
18. WATER MAIN CROSSING EXISTING UTILITY PER STD. DRAWING C-3.1.8.
19. PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
20. INSTALL JOINT RESTRAINTS FOR USE WITH C-900 PVC WATER PIPE TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS.
21. CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
22. POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
23. PROTECT-IN-PLACE
24. REMOVE EXISTING FIRE HYDRANT, RETURN TO CARSON CITY PUBLIC WORKS WAREHOUSE.
28. INSTALL NEW 3/4" WATER SERVICE PER STD. DRAWING C-3.2.1, WITH 3/4" SINGLE PIT SETTER PER STD. DRAWING C-3.2.3.
31. BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
32. LIMITS FOR SAW-OUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.



DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION

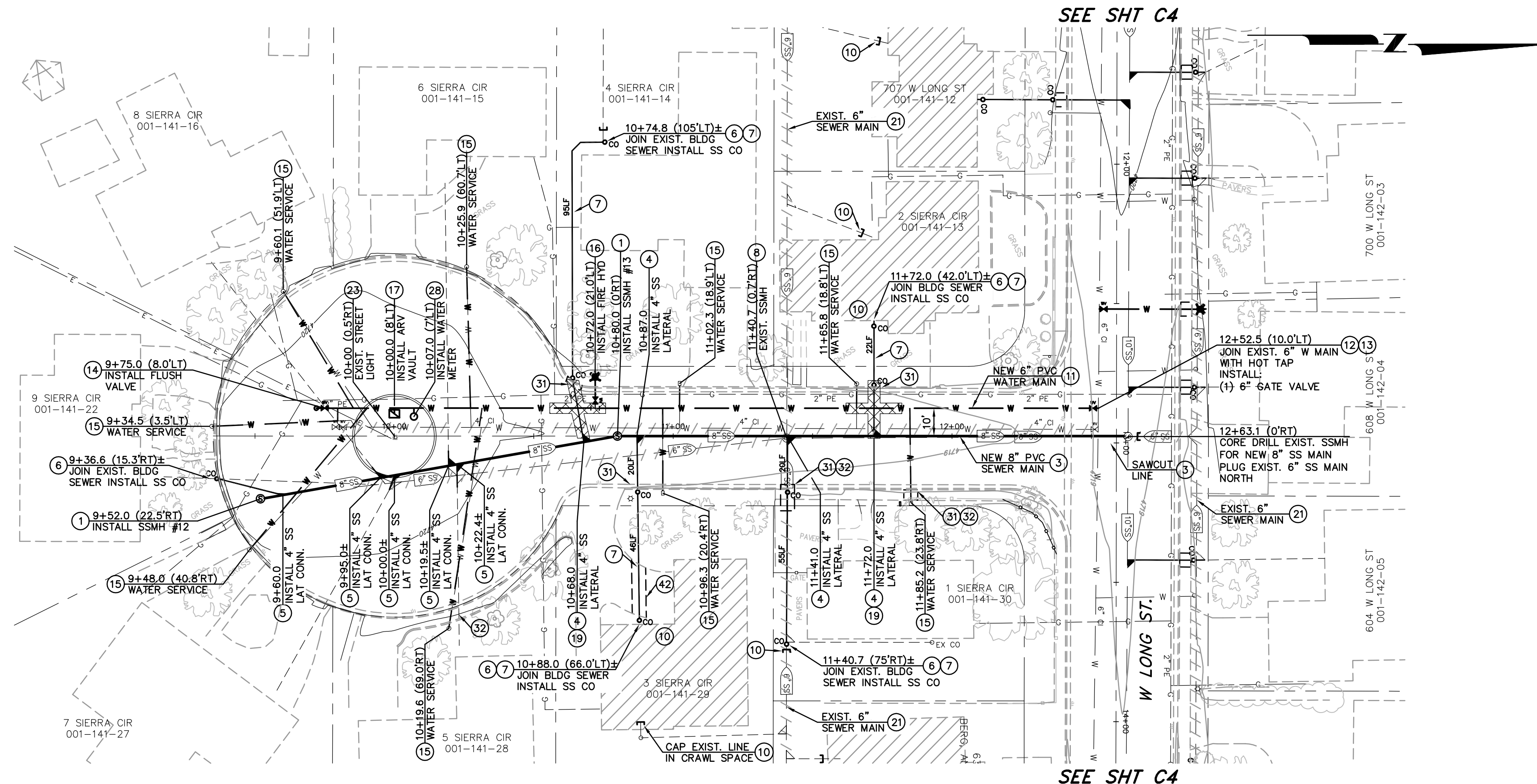
**MOUNTAIN STREET UTILITY REHABILITATION PROJECT**  
 PROJECT No. 5.1403  
**LANE CIRCLE**  
 UTILITY PLAN & PROFILE  
 STA 10+00 TO STA 13+50

SHEET  
**C8**  
 OF  
**40**

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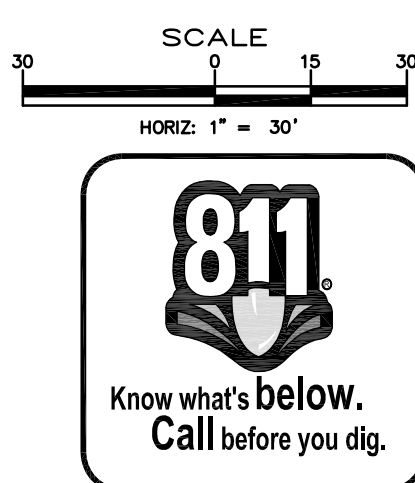


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**PLAN - SIERRA CIRCLE**  
 SCALE: 1" = 30'  
 REFERENCE SHEET C22 FOR STREET IMPROVEMENTS

- CONSTRUCTION NOTES:**
- (1) INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
  - (3) INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
  - (4) INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
  - (5) INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
  - (6) INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
  - (7) EXTEND SEWER LATERAL AS REQUIRED. CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
  - (8) DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
  - (11) INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
  - (12) INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
  - (13) INSTALL TAPPING SLEEVE (SIZE PER PLAN) PER STD. DWG C-3.1.3
  - (14) INSTALL PERMANENT FLUSH VALVE ASSEMBLY PER STD. DWG C-3.1.12
  - (15) INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX. INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
  - (16) INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG C-3.1.7 AND C-3.1.7.1
  - (17) INSTALL POTABLE WATER AIR RELEASE PER STD. DWG C-3.1.10
  - (19) PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO AFFECTED LINES AS REQUIRED PER "WATER/SEWER SEPARATION GUIDELINES". INSTALL MECHANICAL JOINT RESTRAINTS TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS. JOINTLESS WELDED OR FUSIBLE PIPE MAY BE USED IN LIEU OF RESTRAINED JOINTS.
  - (20) INSTALL JOINT RESTRAINTS FOR USE WITH C-900 PVC WATER PIPE TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS.
  - (21) CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
  - (22) POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
  - (23) PROTECT-IN-PLACE
  - (28) INSTALL NEW 3/4" WATER SERVICE PER STD. DRAWING C-3.2.1, WITH 3/4" SINGLE PIT SETTER PER STD. DRAWING C-3.2.3.
  - (30) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
  - (31) BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABE SLURRY BACKFILL AS REQUIRED.
  - (32) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
  - (33) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC VALLEY GUTTER SHALL BE PER STD. DRAWING C-5.1.2
  - (42) SAWCUT AND REMOVE EXISTING PCC DRIVEWAY SLAB TO LIMITS SHOWN FOR NEW UTILITY INSTALLATION. REPLACEMENT CONCRETE SHALL BE 6 INCHES THICK, OVER 6 INCHES COMPACTED TYPE 2 AGGREGATE BASE. TOOLED JOINTS AND FINISH TO MATCH ADJACENT CONCRETE SURFACE.

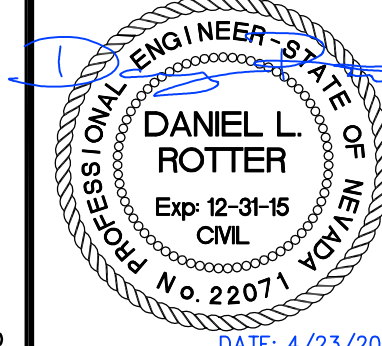


**LEGEND:**

AREAS OF SPECIAL CONSTRUCTION PER WATER/SEWER SEPARATION GUIDELINES & SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES.

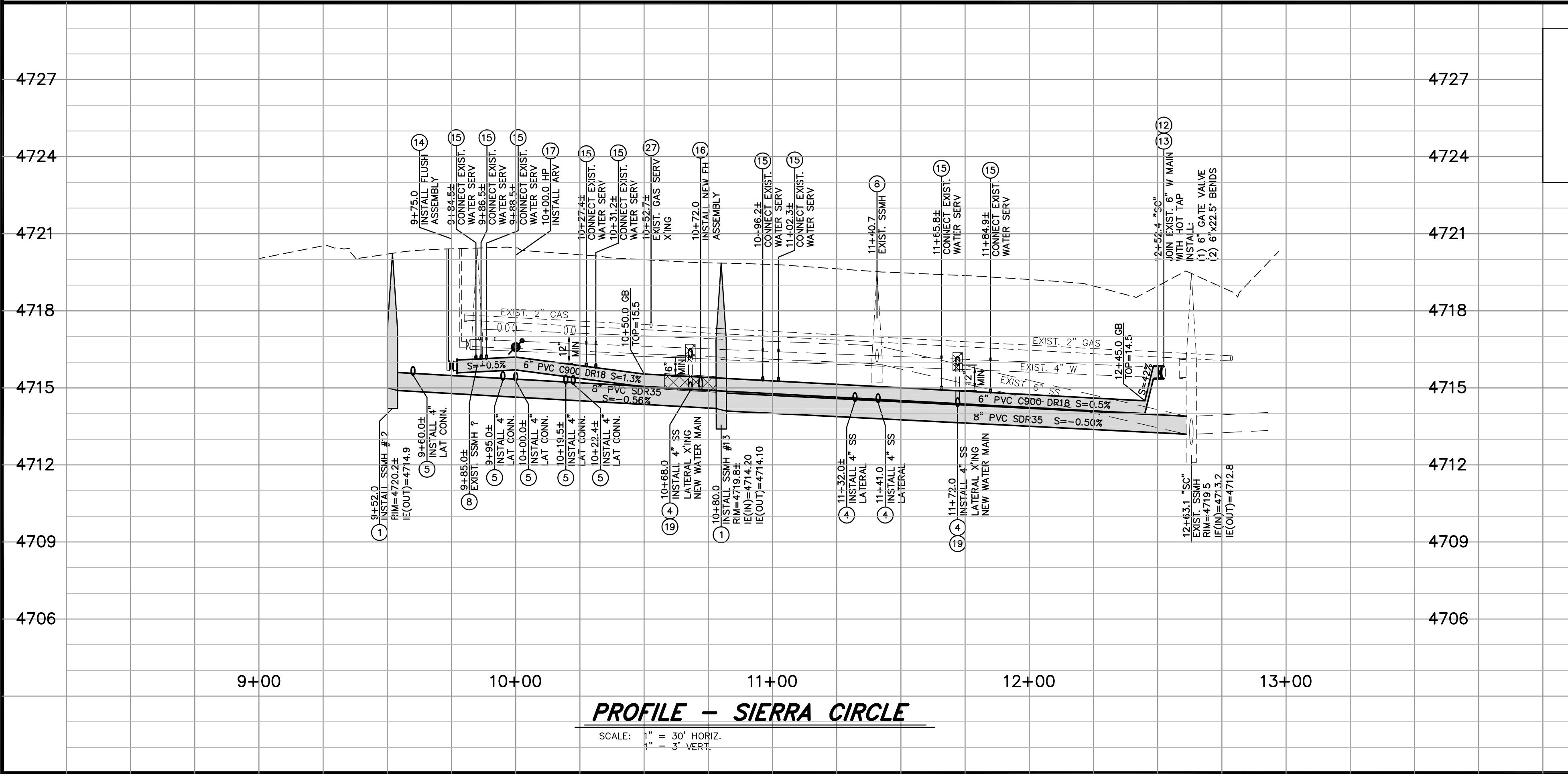
DESIGNED BY: DGB/DJA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION

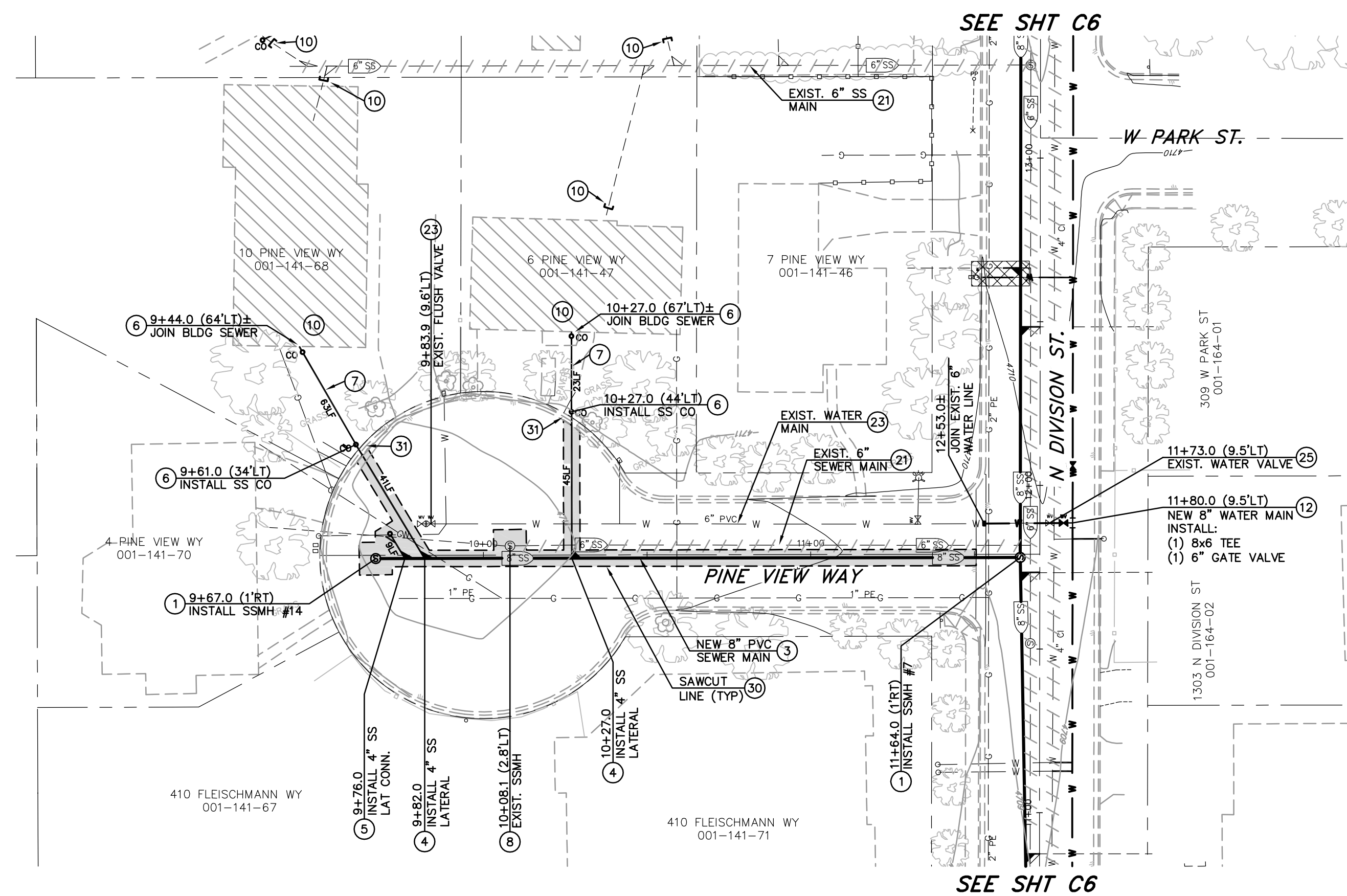
**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.



**PROFILE - SIERRA CIRCLE**  
 SCALE: 1" = 30' HORIZ.  
 1" = 3' VERT.

**MOUNTAIN STREET UTILITY REHABILITATION PROJECT**  
**SIERRA CIRCLE UTILITY PLAN & PROFILE**  
 STA 9+00 to STA 13+00



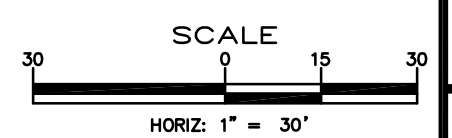


**PLAN - PINE VIEW WAY**  
 SCALE: 1" = 30'  
 REFERENCE SHEET C24 FOR STREET IMPROVEMENTS

**CONSTRUCTION NOTES:**

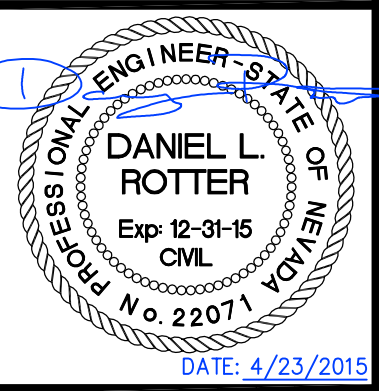
- 1 INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 3 INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 4 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 5 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL CONNECTION, PER LATERAL CONNECTION DETAIL. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING OR APPROVED EQUAL. INSTALL NEW 4 INCH PVC C900 WITH SEALED JOINTS PER LATERAL CONNECTION DETAIL WHEN SPECIAL CONSTRUCTION IS REQUIRED.
- 6 INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 7 EXTEND SEWER LATERAL AS REQUIRED. CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 8 DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
- 10 REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
- 11 INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
- 12 INSTALL GATE VALVE (SIZE PER PLAN) PER STD. DWG C-3.1.4
- 17 INSTALL POTABLE WATER AIR RELEASE PER STD. DWG C-3.1.10
- 21 CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 22 POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
- 23 PROTECT-IN-PLACE
- 25 REMOVE EXISTING WATER VALVE, INSTALL BLIND FLANGE
- 30 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
- 31 BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.



DESIGNED BY: DGB/DSA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1"=30'  
 SCALE (VERT): 1"=3'  
 PLOT DATE: 4/23/15

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



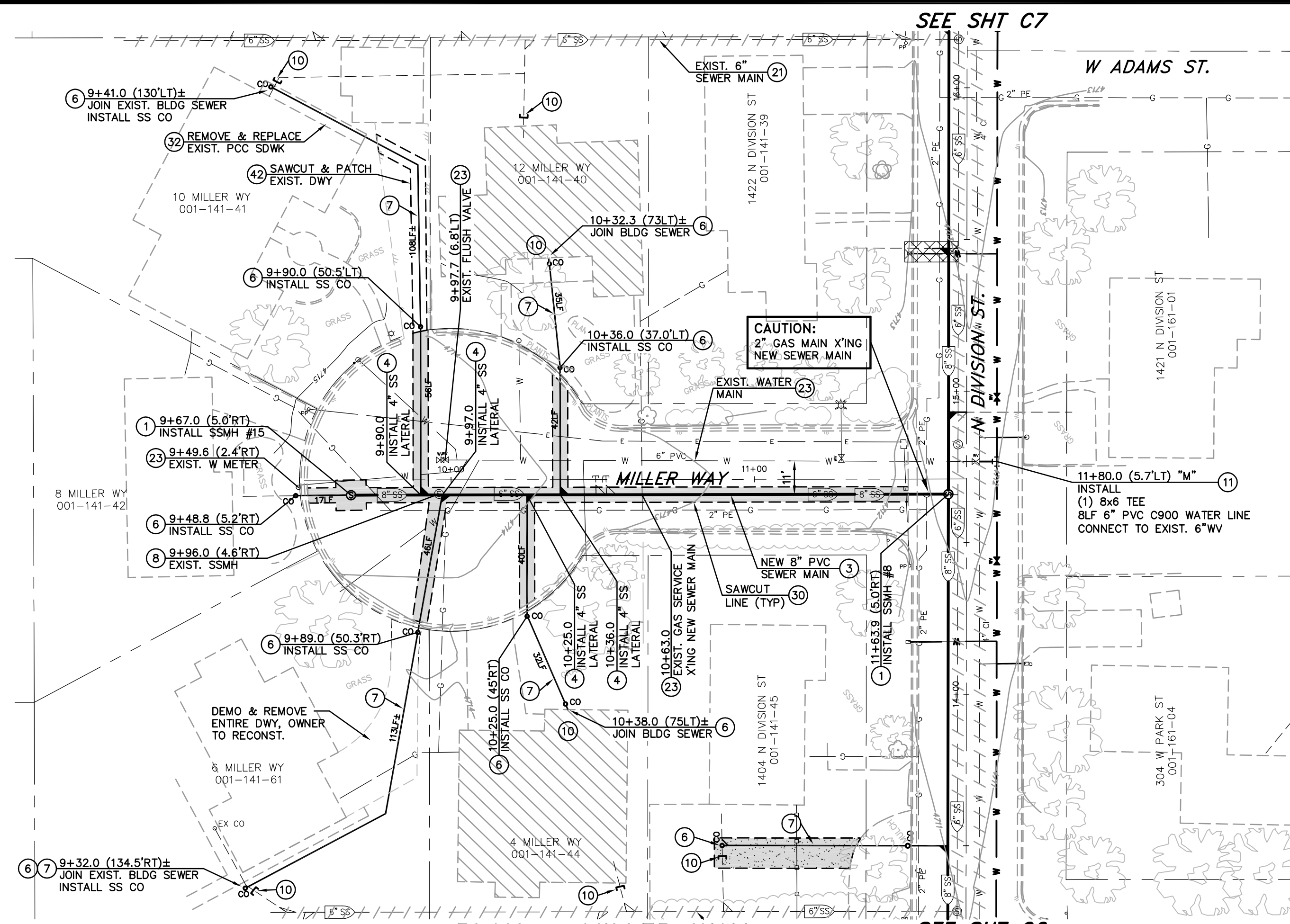
REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT**  
 PROJECT No. 5.1403  
**PINE VIEW WAY  
 UTILITY PLAN & PROFILE**  
 STA 9+00 to STA 12+00

SHEET  
**C10**  
 OF  
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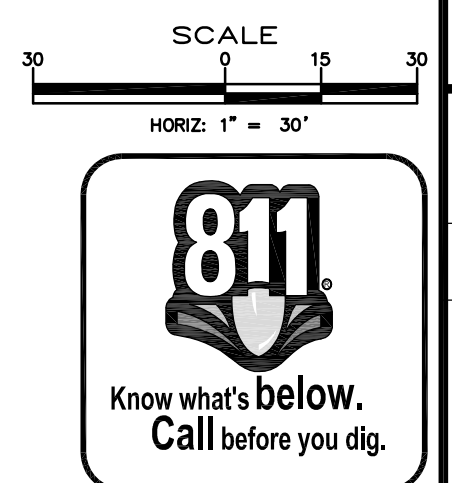
**PLAN - MILLER WAY**  
SCALE: 1" = 30'  
REFERENCE SHEET C24 FOR STREET IMPROVEMENTS

**CONSTRUCTION NOTES:**

- 1 INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
- 3 INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
- 4 INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
- 6 INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
- 7 EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
- 8 DEMO AND REMOVE ENTIRE EXISTING SANITARY SEWER MANHOLE AND BASE PER SECTION 301 OF THE SSPWC.
- 10 REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
- 11 INSTALL PVC C900 DR-18 WATER LINE (SIZE PER PLAN) PER STD. DWG C-1.2.1
- 20 INSTALL JOINT RESTRAINTS FOR USE WITH C-900 PVC WATER PIPE TO LIMITS SHOWN ON PLANS, PER MANUFACTURER'S RECOMMENDATIONS.
- 21 CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
- 22 POT HOLE EXISTING UTILITY TO VERIFY EXACT DEPTH AND MATERIAL
- 23 PROTECT-IN-PLACE
- 30 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
- 31 BORE NEW SEWER/WATER LATERAL UNDER EXISTING PCC CURB & GUTTER (PROTECT IN PLACE), BACKFILL WITH DIGABLE SLURRY BACKFILL AS REQUIRED.
- 32 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.
- 42 SAWCUT AND REMOVE EXISTING PCC DRIVEWAY SLAB TO LIMITS SHOWN FOR NEW UTILITY INSTALLATION. REPLACEMENT CONCRETE SHALL BE 6 INCHES THICK, OVER 6 INCHES COMPACTED TYPE 2 AGGREGATE BASE. TOOLED JOINTS AND FINISH TO MATCH ADJACENT CONCRETE SURFACE.

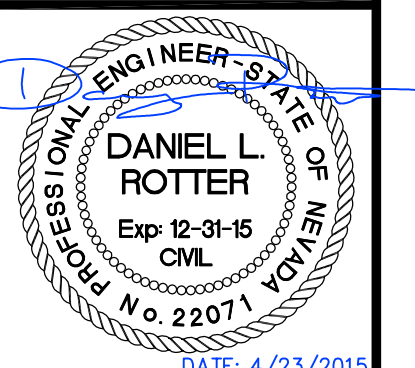
**NOTE:**

THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAD OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVISED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.



DESIGNED BY: DGB/DCA  
DRAWN BY: DGR  
CHECKED BY: DSA/DLR  
DWG NO.: 5-1403 SEWER PP.DWG  
SCALE (HORIZ): 1"=30'  
SCALE (VERT): 1"=3'  
PLOT DATE: 4/23/15

**CARSON CITY  
PUBLIC WORKS DEPARTMENT**  
3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
UTILITY REHABILITATION PROJECT**  
PROJECT No. 5.1403  
**MILLER WAY  
UTILITY PLAN & PROFILE**  
STA 9+00 TO STA 12+00

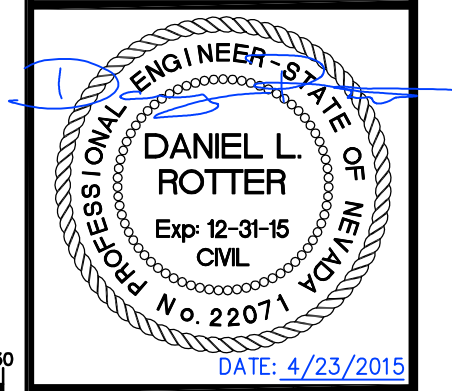
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DESIGNED BY: DGB/DCA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403 SEWER PP.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): 1" = 3'  
 PLOT DATE: 4/23/15

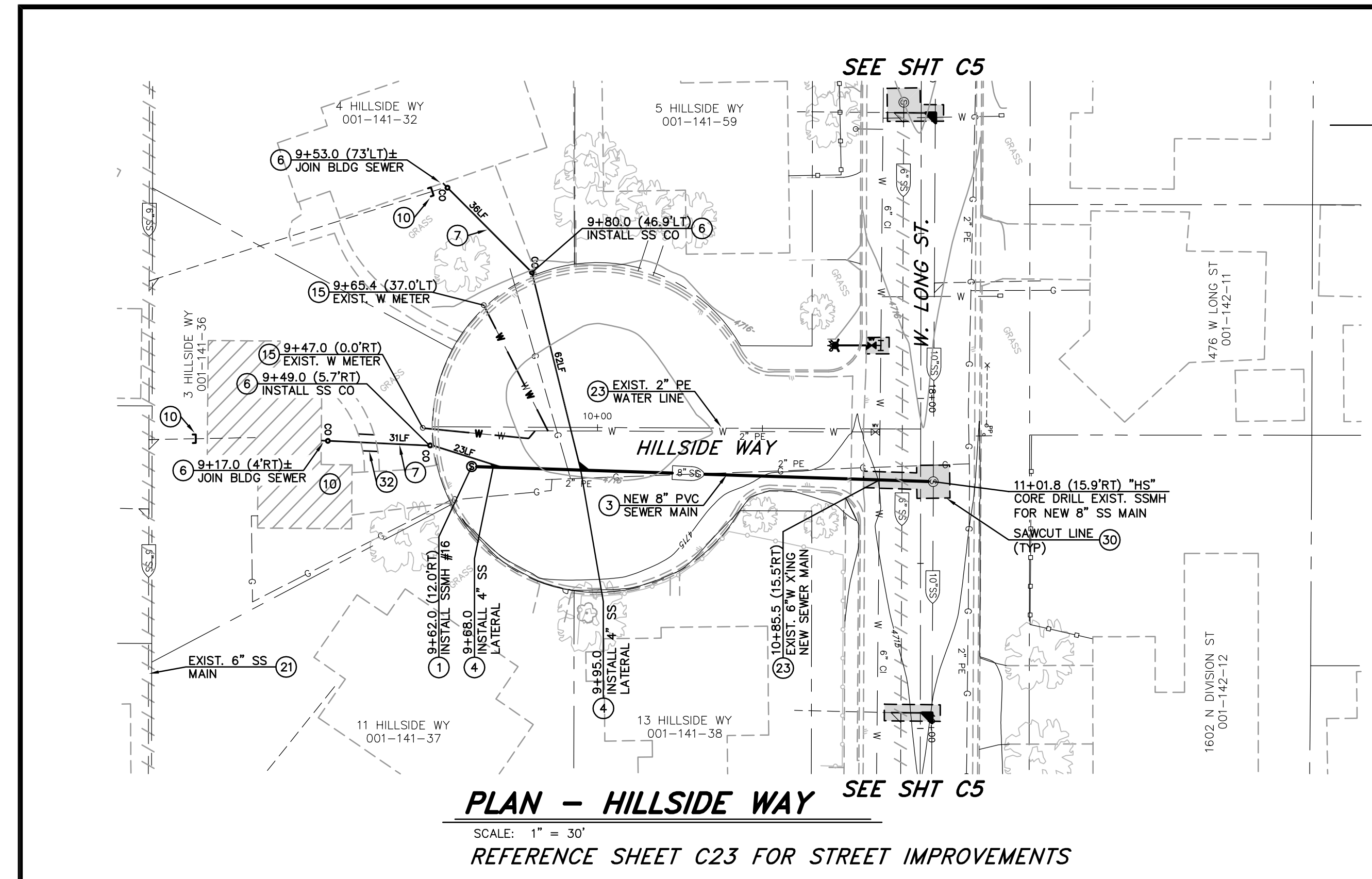
**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT**  
 PROJECT No. 5.1403  
**HILLSIDE WAY  
 UTILITY PLAN & PROFILE**  
 STA 9+00 to STA 11+00

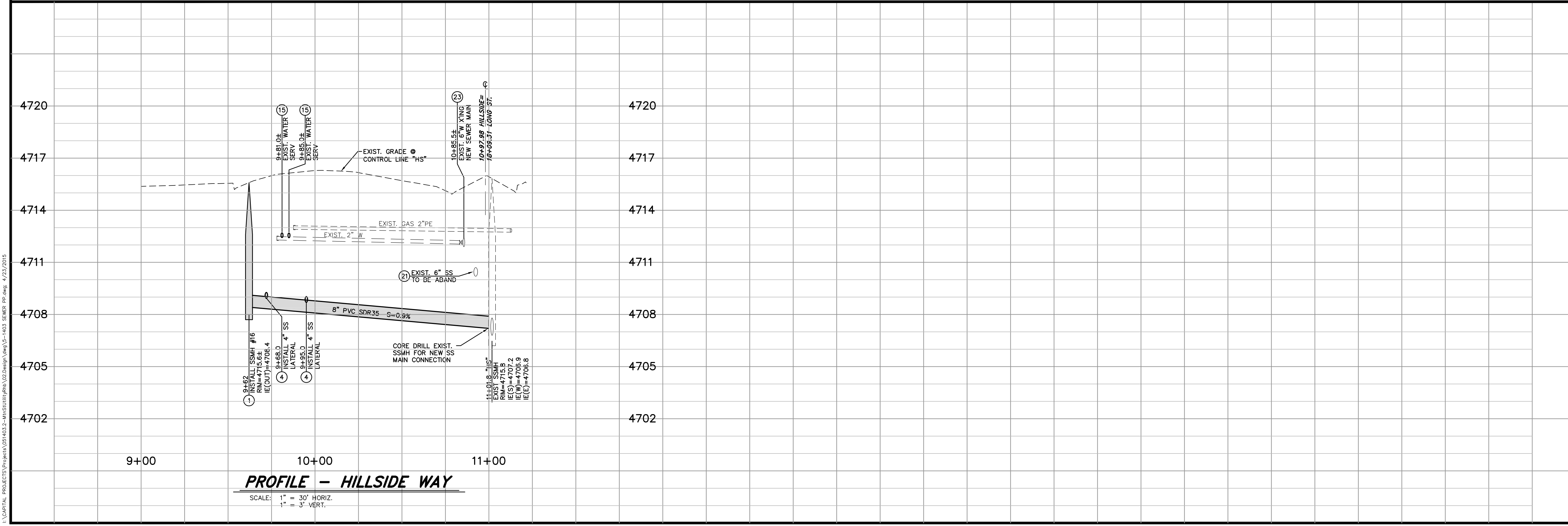
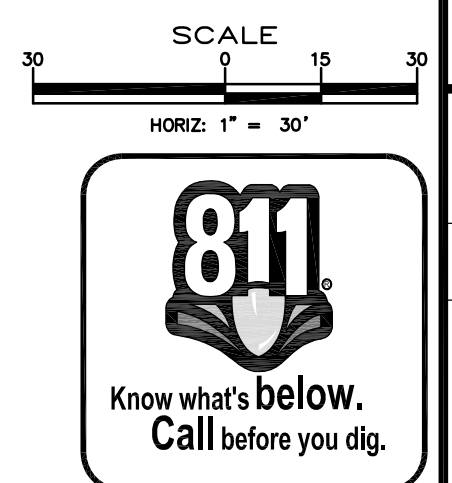
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**PLAN - HILLSIDE WAY** SEE SHT C5  
 SCALE: 1" = 30'  
 REFERENCE SHEET C23 FOR STREET IMPROVEMENTS

- CONSTRUCTION NOTES:**
- INSTALL 48 INCH SEWER MANHOLE TYPE 1, PER STD DRAWING C-2.1.3
  - INSTALL 8 INCH PVC-SDR35 SEWER LINE PER STD. DWG C-1.2.1
  - INSTALL NEW 4 INCH PVC-SDR35 SEWER LATERAL PER STD DRAWING C-2.2.1
  - INSTALL SANITARY SEWER CLEANOUT PER STD. DWG C-2.2.3, AT BUILDING CONNECTION
  - EXTEND SEWER LATERAL AS REQUIRED, CONNECT TO EXISTING BUILDING SEWER PER STD. DRAWING C-2.1.6 (NOTE 6). MAINTAIN -2.0% MIN. SLOPE TO SEWER MAIN.
  - REVERSE PLUMBING UNDER HOUSE AS REQUIRED TO DIRECT BUILDING SEWER TO NEW SEWER MAIN ALONG PARCEL FRONTAGE. CUT AND CAP EXISTING BUILDING SEWER TO WITHIN 5 FEET OF BUILDING FOOTING, OR AT END OF EXISTING LATERAL WHERE NEW SEWER CONNECTS TO EXISTING LATERAL OUTSIDE OF THE BUILDING FOOTPRINT.
  - INSTALL NEW WATER SERVICE CONNECTION PER STD. DWG C-3.2.1 AND C-3.2.2, EXTEND NEW 3/4" PE SERVICE LINE TO EXISTING WATER METER BOX, INSTALL NEW BALL VALVE, YOKE AND CHECK VALVE, CONNECT TO EXISTING BUILDING SERVICE, PER DETAIL 1, SHT C28.
  - CUT, PLUG AND SLURRY FILL EXISTING SEWER/WATER MAIN, ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED UTILITY MAIN THAT CONFLICT WITH NEW SEWER/WATER MAIN CONSTRUCTION.
  - PROTECT-IN-PLACE
  - LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6
  - LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING PCC SIDEWALK SHALL BE PER STD DRAWING C-5.2.2, REMOVAL & REPLACEMENT SHALL BE TO NEAREST EXISTING JOINT.

**NOTE:**  
 THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. THE LOCATIONS AND INVERT ELEVATIONS OF ALL SEWER MAINS, MANHOLES AND LATERALS WHICH DO NOT CONNECT TO BUILDING SEWERS SHALL BE LAID OUT IN THE FIELD BY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVISED BY CARSON CITY PERSONNEL; ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.



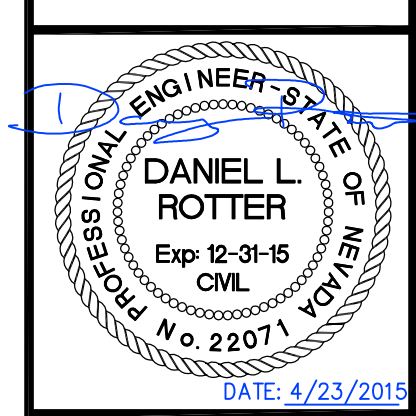
**PROFILE - HILLSIDE WAY**  
 SCALE: 1" = 30' HORIZ.  
 1" = 3" VERT.

I:\CAPITAL PROJECTS\Project\5-1403-2-MountainSt\02-Design\5-1403 SEWER PP.dwg: 4/23/2015



DESIGNED BY: DGB/DSA  
 DRAWN BY: DGR  
 CHECKED BY: DSA/DLR  
 DWG NO.: 5-1403-SEWER-PP.DWG  
 SCALE (HORIZ): 1"=30'  
 SCALE (VERT): 1"=3'  
 PLOT DATE: 4/23/15

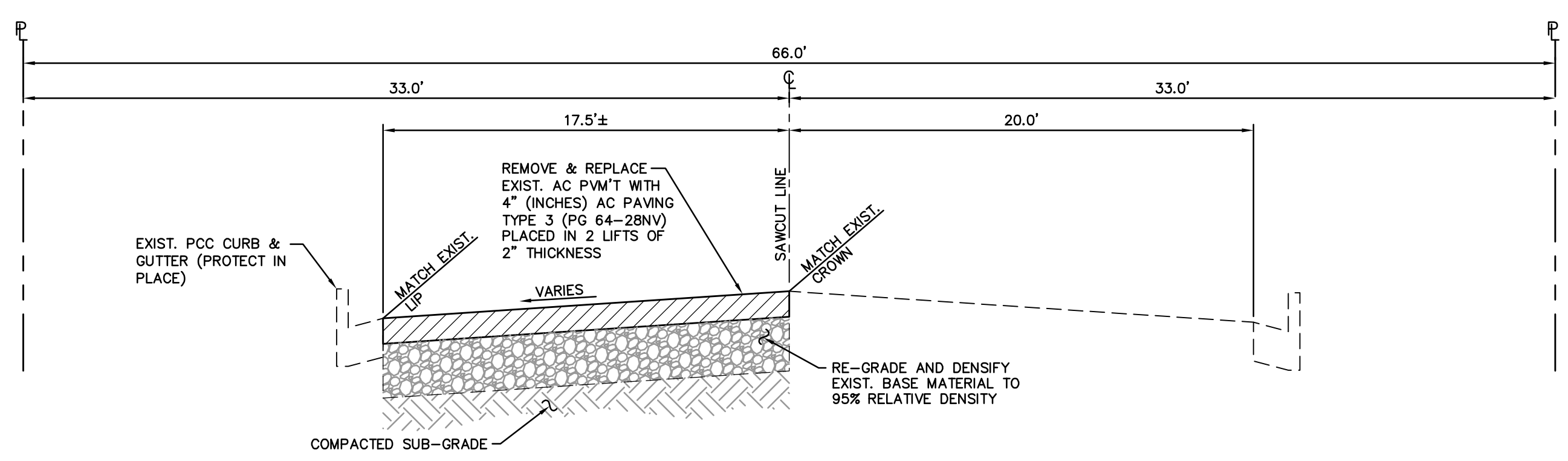
**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112



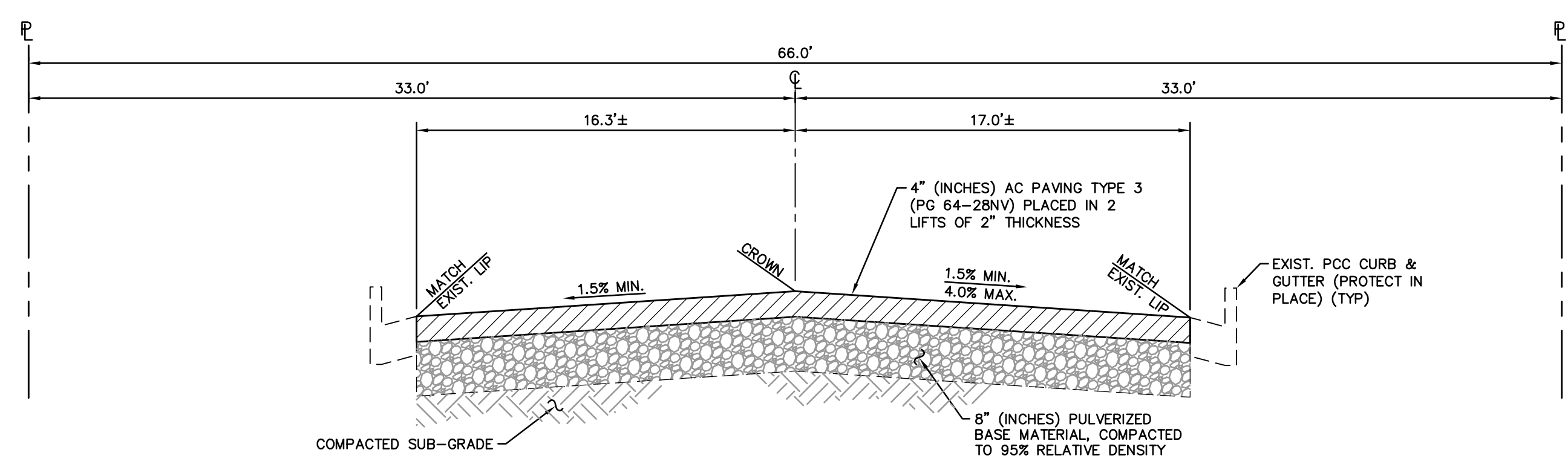
REV.	DATE	DESCRIPTION	BY	APP'D

**MOUNTAIN STREET  
 UTILITY REHABILITATION PROJECT  
 PROJECT No. 5.1403**  
**TYPICAL ROADWAY SECTIONS**

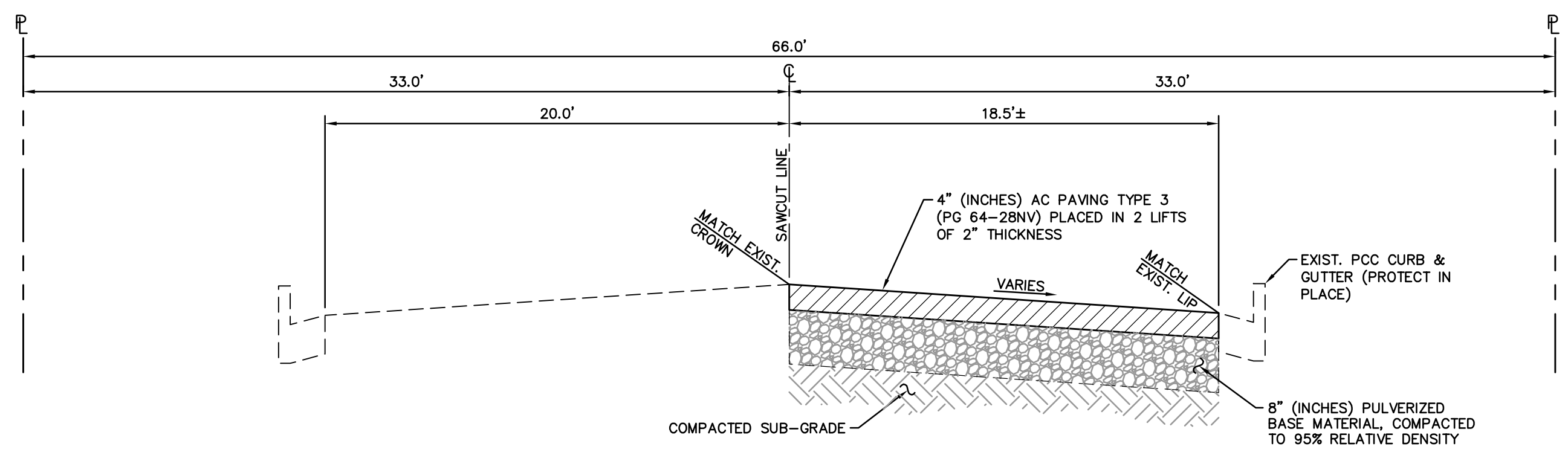
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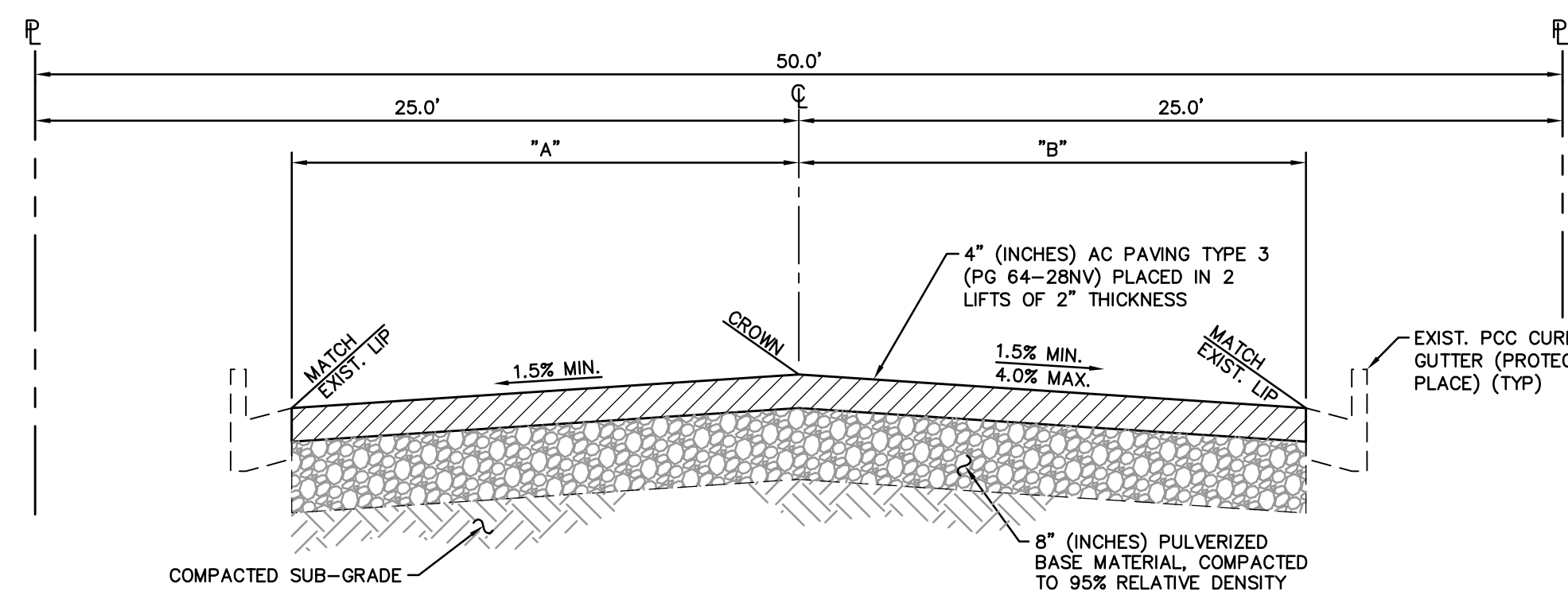
**TYPICAL SECTION  
 FLEISCHMANN WAY (A)**  
 SCALE: 1" = 5'  
 NOTE:  
 TO MAINTAIN THE INTEGRITY OF THE EXISTING BASE MATERIAL ON FLEISCHMANN WAY, THE EXISTING PAVEMENT SHALL NOT BE PULVERIZED, (SEE PLAN FOR LIMITS)



**TYPICAL SECTION  
 N. DIVISION STREET (D)**  
 SCALE: 1" = 5'

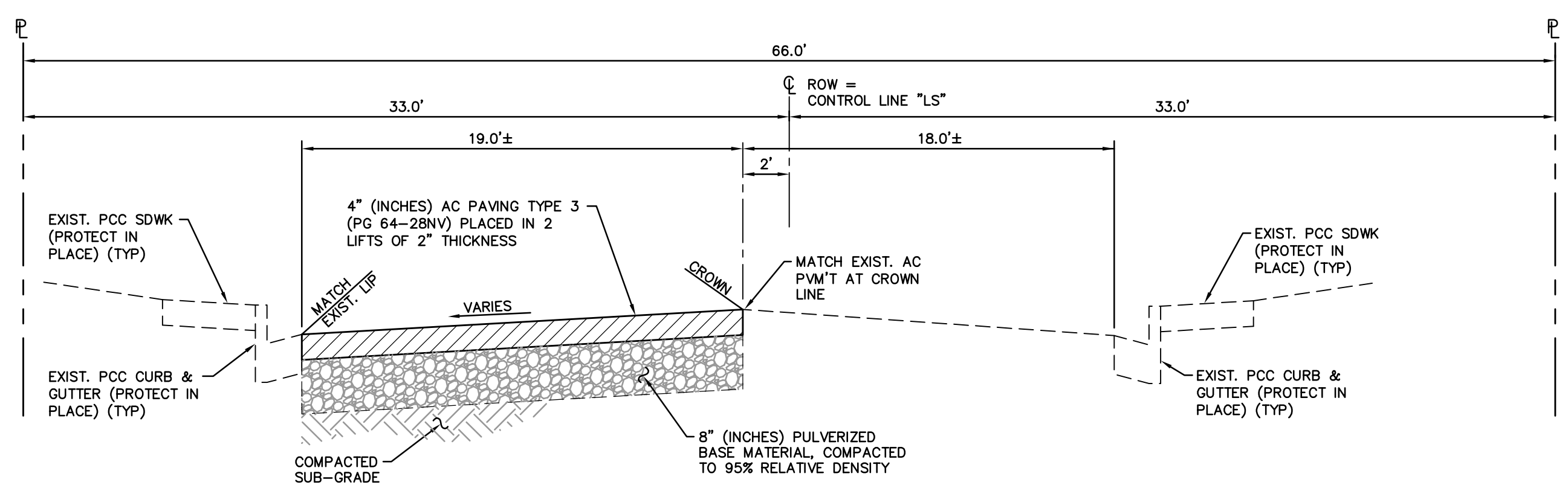


**TYPICAL SECTION  
 N. MOUNTAIN STREET (B)**  
 SCALE: 1" = 5'

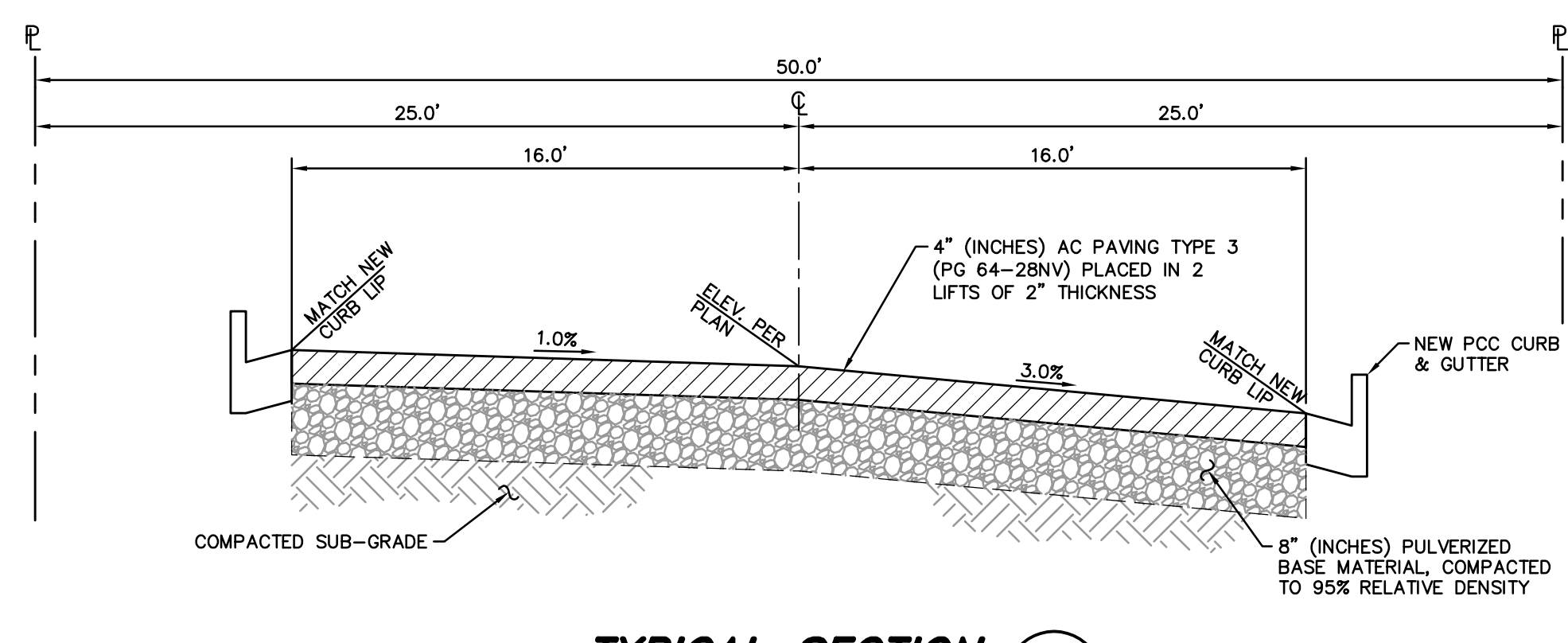


**TYPICAL SECTION  
 LANE CIRCLE & SIERRA CIRCLE (E)**  
 SCALE: 1" = 5'

STREET	"A"	"B"
LANE CIRCLE	16.8'	16.7'
SIERRA CIRCLE	16.0'	17.3'



**TYPICAL SECTION  
 W. LONG STREET (C)**  
 SCALE: 1" = 5'



**TYPICAL SECTION  
 HILLSIDE WAY (F)**  
 SCALE: 1" = 5'

- PAVING NOTES:**
- PULVERIZE EXISTING PAVEMENT SECTION TO A DEPTH THAT PROVIDES AN 8" RESULTANT BASE SECTION. RE-GRADE PULVERIZED MATERIAL TO DEPTH SHOWN, COMPACT TO 95% RELATIVE DENSITY.
  - EXCESS PULVERIZED MATERIAL SHALL BE DELIVERED TO THE CARSON CITY LANDFILL.
  - ADDITIONAL AGGREGATE BASE MATERIAL SHALL BE TYPE 2, CLASS B, AND CONFORM TO SECTION 200.01 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% RELATIVE DENSITY, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - ASPHALT CEMENT SURFACES SHALL BE COMPACTED TO 92-97% RICE THEORETICAL OR 95% MARSHALL METHOD.

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