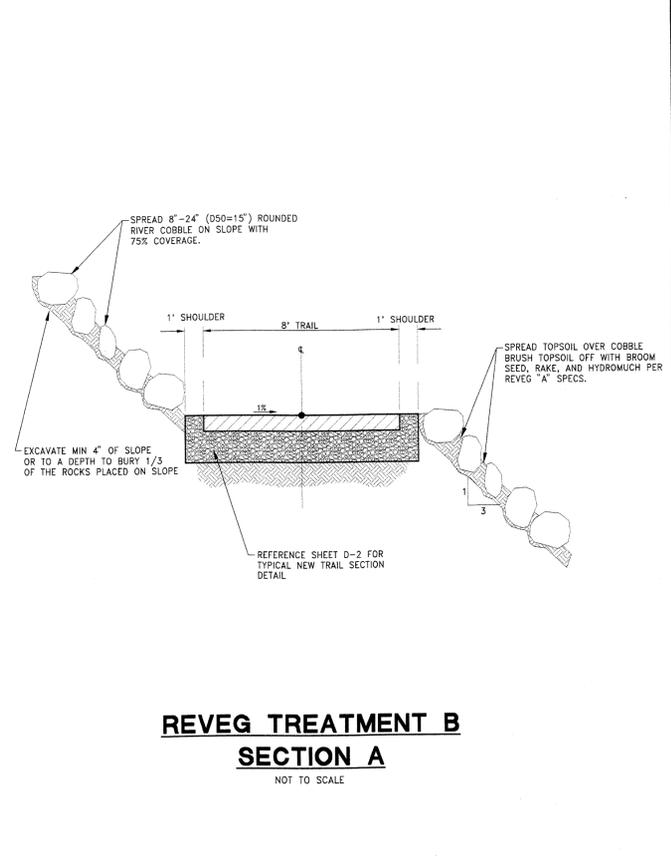
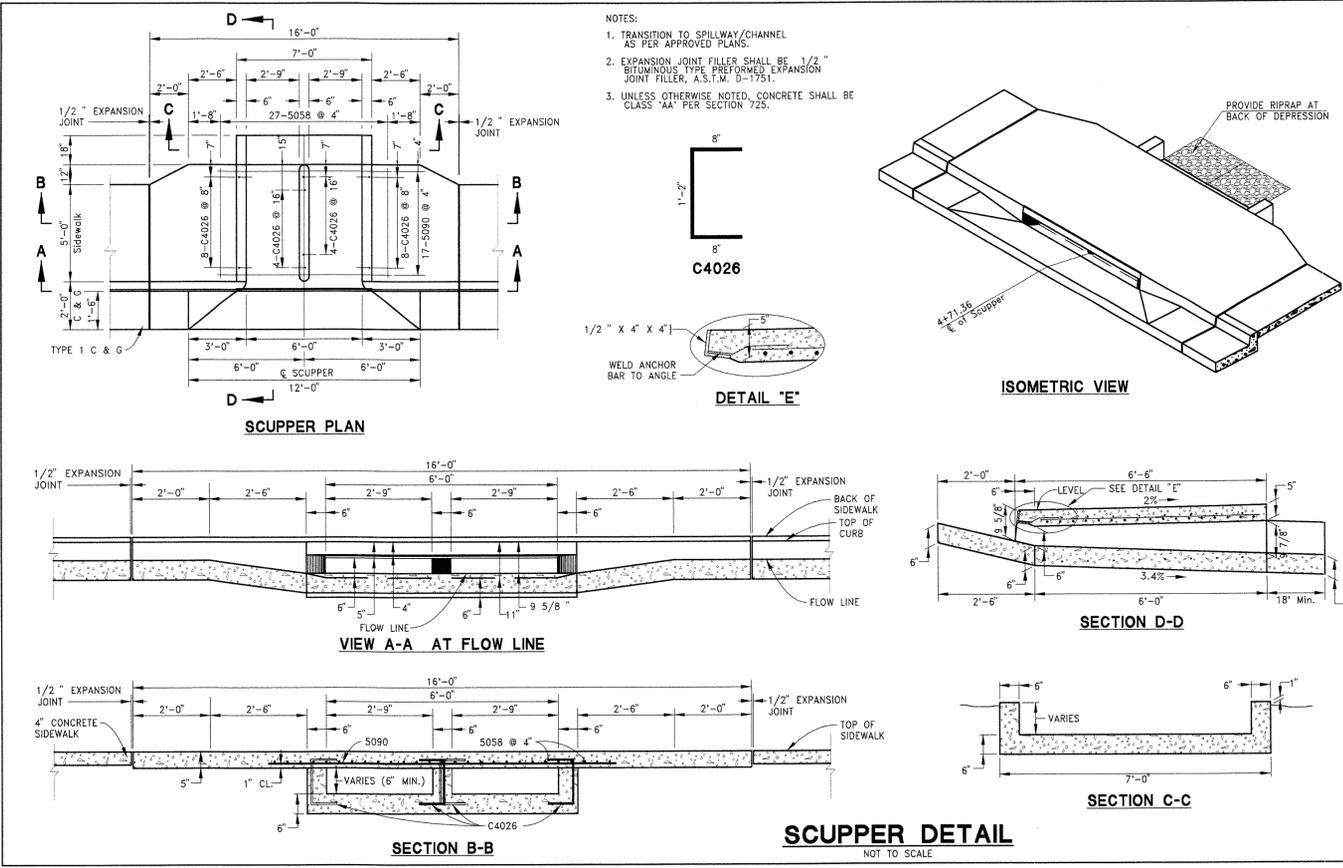


**NOTES:**

- MUELLER 18 INCH LOCKING LID (PART NO. TRPL-780113) AND 27 INCH X 18 INCH FRAME.
- MUELLER EZ-VAULT METER SETTER-RIGID PVC, FACTORY EQUIPPED AS SHOWN, CONFORMING TO ANWA C800.
- WATER METER SHALL BE NO MORE THAN 30 INCHES FROM TOP OF LID AND NOT LESS THAN 24 INCHES FROM TOP OF LID.
- A 2 INCH METER SET REQUIRES A 2 INCH MINIMUM SERVICE LINE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			1 1/2" - 2" PIT SETTER	CARSON CITY
				DRAWING NO. C-3.2.5 (203,307)
				DATE 7/2009

APPROVED BY: [Signature] 7/09



**WATER GENERAL NOTES**

- 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, OR 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, OR 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 14 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.
- 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
			WATER GENERAL NOTES	CARSON CITY
				DRAWING NO. C-3.1.1 (307)
				DATE 7/2009

APPROVED BY: [Signature] 07/09

**PCC CURB & GUTTER TYPE 1**

**NOTES:**

- 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 BAGS OF 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 SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE CURB & GUTTER SHALL HAVE 1/2 INCH EXPANSION JOINTS EVERY 30 FEET (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- ALL AGGREGATE BASE 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% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			PCC CURB & GUTTER TYPE 1	CARSON CITY
				DRAWING NO. C-5.1.3
				DATE 7/2009

APPROVED BY: [Signature] 7/09

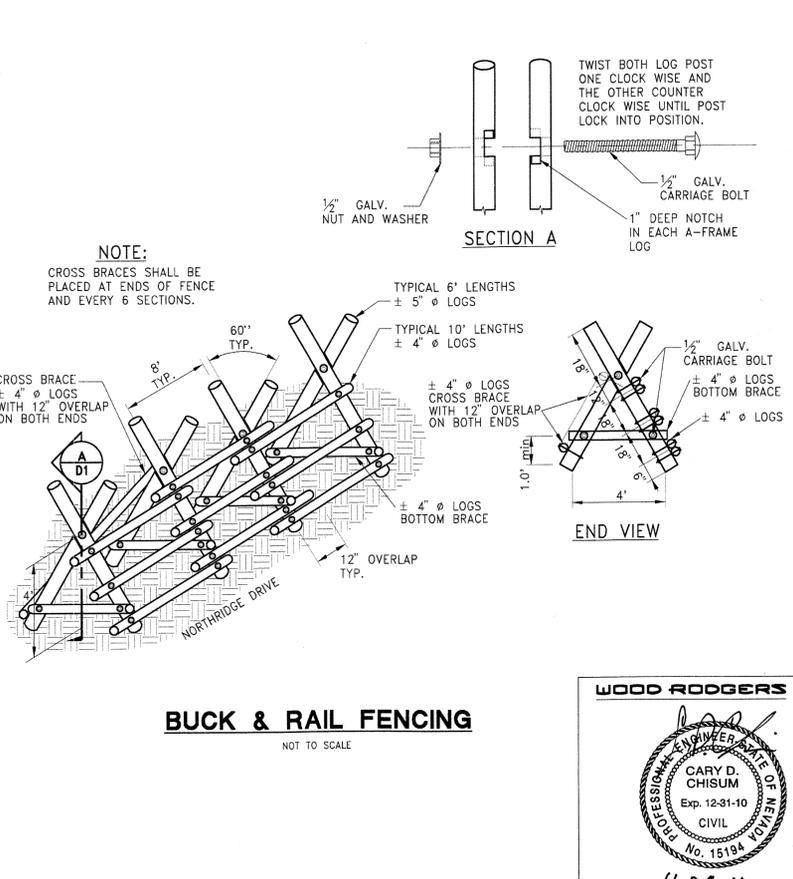
**PAVEMENT PATCH**

**NOTES:**

- IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS. FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
- PLANT MIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.
- PLANT MIX BITUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
- PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			PAVEMENT PATCH	CARSON CITY
				DRAWING NO. C-5.1.6
				DATE 7/2009

APPROVED BY: [Signature] 7/09



**WOOD RODGERS**  
DEVELOPING INNOVATIVE DESIGN SOLUTIONS  
5440 Reno Corporate Drive  
Reno, NV 89511  
Tel 775.823.4068  
Fax 775.823.4066

**CARSON CITY WETLANDS SOUTH ACCESS, NORTHBRIDGE DRIVE DETAILS**

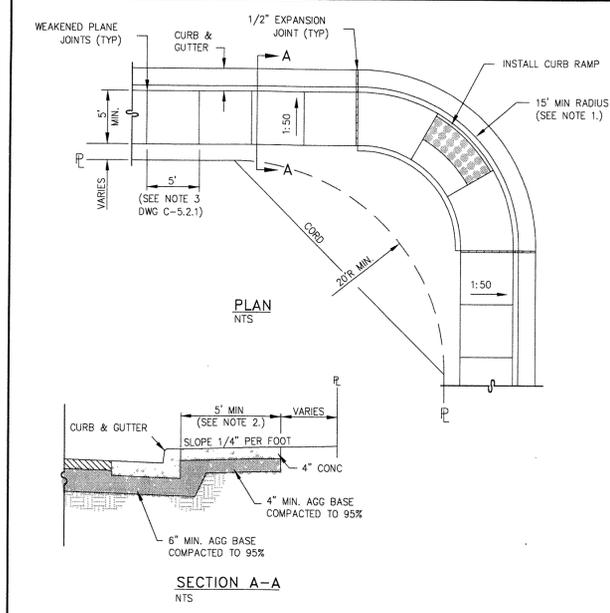
PROJECT NO. 8059.011  
DRAWING D-1  
SHT 9 OF 18

DATE: JULY 2009  
SCALE: AS SHOWN  
DRAWN BY: JLH  
DESIGNED BY: RRW  
CHECKED BY: RRW

NEVADA

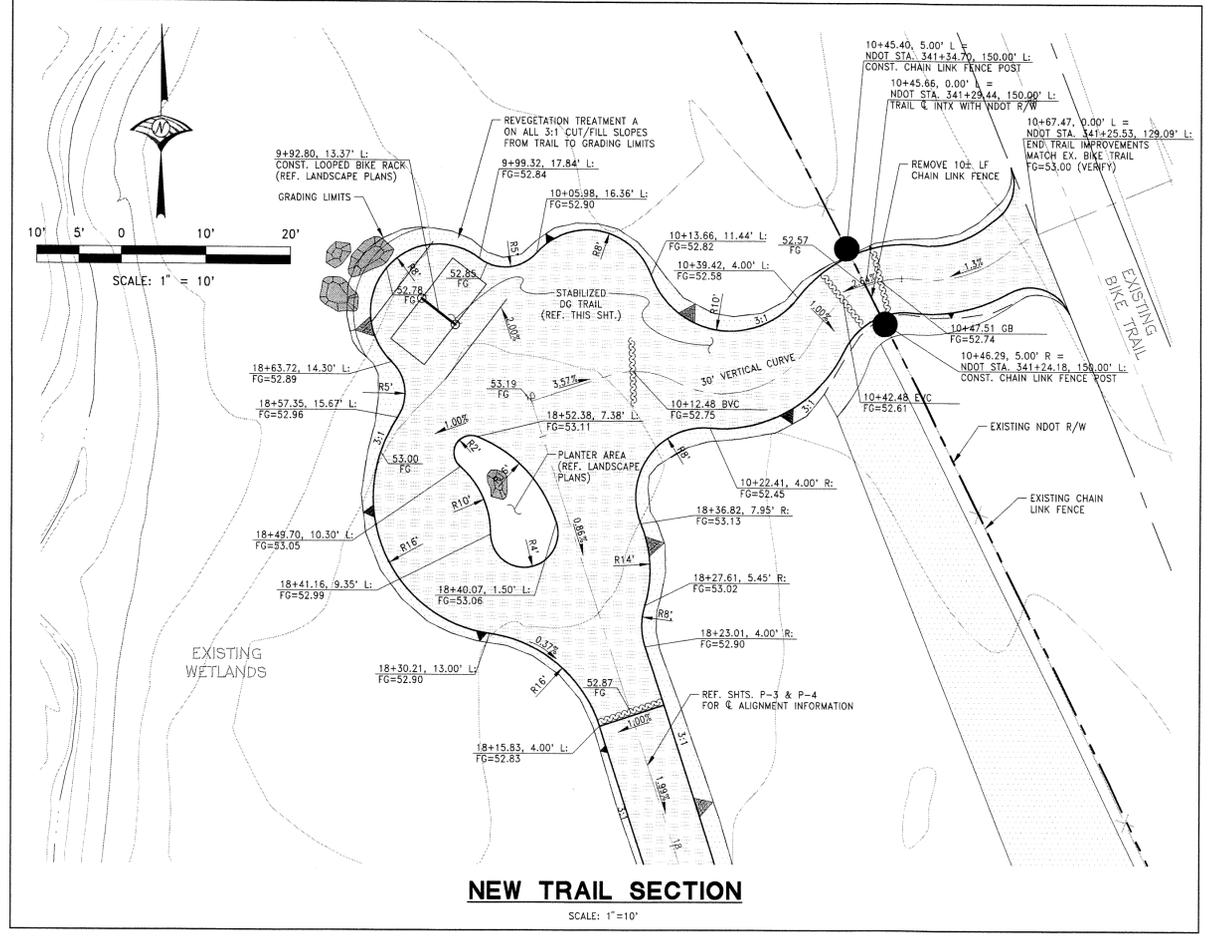
- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINED 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.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			SIDEWALK AND DRIVEWAY	CARSON CITY
			GENERAL NOTES	DRAWING NO. C-5.2.1
				DATE 7/2009



- NOTES:**
- MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
  - SOME STREETS MAY REQUIRE WIDER SIDEWALKS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			TYPE "A" SIDEWALK	CARSON CITY
				DRAWING NO. C-5.2.2
				DATE 7/2009



**STABILIZED CRUSHED AGGREGATE PATHWAY**

**DECOMPOSED GRANITE**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. This Section includes material and labor requirements for construction with Decomposed granite or crushed 3/8" or 1/4" minus aggregate paving with Stabilizer binder additive for the following items:

**1.2 PERFORMANCE REQUIREMENTS**

A. Perform gradation of decomposed granite material or 3/8" or 1/4" minus crushed aggregate in accordance with ASTM C 136 - Method for Sieve Analysis for Fine and Course.

**1.3 SUBMITTALS**

A. Products Data: For each product specified. Submit a 5 lb. sample and sieve analysis for grading of decomposed granite or crushed 3/8" or 1/4" minus aggregate to be sent to Stabilizer Solutions, Inc. prior to any construction - (allow 2 week turn around). Must be approved by the City's Construction Manager.

B. Shop Drawings: Show details of installation, including plans and sections.

**1.4 PROJECT/SITE CONDITIONS**

A. Field Measurements: Each bidder is required to visit the site of the Work to verify the existing conditions. No adjustments will be made to the Contract Sum for variations in the existing conditions.

B. Environmental Limitations: Do not install decomposed granite or crushed 3/8" or 1/4" minus aggregate paving during rainy conditions or below 40 degrees Fahrenheit and falling.

**1.5 QUALITY ASSURANCE**

A. Installer Qualifications: Installer to provide evidence to indicate successful experience in providing decomposed granite or crushed 3/8" or 1/4" minus aggregate paving containing Stabilizer binder additive.

B. Mock-ups: Install 4 ft. wide x 10 ft. long mock-up of decomposed granite or 3/8" or 1/4" minus crushed aggregate paving with Stabilizer additive at location as directed by the City's Construction Manager.

**1.6 WARRANTY**

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Special Warranty: Submit a written warranty executed by the installer agreeing to repair or replace components of stabilized surfacing that fail in materials or workmanship within a one year warranty period from final project acceptance. Failures include, but are not limited to, the following:

- Premature wear and tear, provide the material is maintained in accordance with manufacturer's written maintenance instructions.
- Failure of system to meet performance requirements.

C. Warranty Period: Contractor shall provide warranty for performance of product. Contractor shall warranty installation of product for the time of one year from City's final project acceptance.

**PART 2 - PRODUCTS**

**2.1 MANUFACTURER**

A. Stabilizer for crushed stone surfaces provided by the following manufacturer:

1. Stabilizer Solutions, Inc. 205 South 28th St., Phoenix, AZ 85034; phone:(602) 225-5900, (800) 336-2468; fax (602) 225-5902; website [stabilizersolutions.com](http://stabilizersolutions.com), [phubs@stabilizersolutions.com](mailto:phubs@stabilizersolutions.com) or approved equal.

**2.2 MATERIALS**

A. Decomposed Granite or 3/8" or 1/4" crushed aggregate screenings

1. Crushed Stone Sieve Analysis Percentage of Weight Passing a Square Mesh Sieve AASHTO T11-82 and T27-82

1/4" MINUS AGGREGATE GRADATION	
U.S. Sieve No.	Percent Passing by Weight
# 3/8"	100 %
# 4	90-100
# 8	75-80
# 16	55-65
# 30	40-50
# 50	25-35
# 100	15-20
# 200 to	10-15

**B. Stabilized Binder**

1. Patented, non-toxic, organic binder that is a colorless and odorless concentrated powder that binds decomposed granite or crushed 3/8" or 1/4" minus aggregate

**PART 3 - EXECUTION**

**3.1 BLENDING STABILIZER**

A. Blend 12 to 16 lbs. (call manufacturer for exact blend) of Stabilizer per 1-ton of decomposed granite or crushed 3/8" or 1/4" minus aggregate screenings. It is critical that Stabilizer be thoroughly and uniformly mixed throughout decomposed granite or crushed 1/4" or 3/8" minus aggregate screenings.

**3.2 PLACEMENT**

A. After pre-blending, place the Stabilized decomposed granite or 3/8" or 1/4" crushed aggregate screenings on prepared sub-grade. Level to desired grade and cross section.

**3.3 WATERING**

A. Water heavily to achieve full depth moisture penetration of the Stabilized pathway Profile. Water activates Stabilizer. To achieve saturation of Stabilized pathway Profile, 25 to 45 gallons of water per 1-ton must be applied. During water application randomly test for depth using a probing device to the final depth.

**3.4 COMPACTION**

A. Upon thorough moisture penetration, compact aggregate screenings to 85 % relative compaction by compaction equipment such as; a 2 to 4-ton double drum roller or a 1,000 lb. Single drum roller with vibratory plate tamp. Do not begin compaction for 6 hours after placement and up to 48 hours.

B. Take care in compacting decomposed granite or crushed 3/8" or 1/4" minus aggregate screenings when adjacent to planting and irrigation systems. Hand tamping with 8" or 10" hand tamp recommended

**3.5 INSPECTION**

A. Finished surface of pathway shall be smooth, uniform and solid. There shall be no evidence of chipping or cracking. Cured and compacted pathway shall be firm throughout profile with no spongy areas. Loose material shall not be present on the surface. Any significant irregularities in path surface shall be repaired to the uniformity of entire installation.

**3.6 FINAL PROJECT ACCEPTANCE AND ONE YEAR WARRANTY PERIOD**

A. Remove debris, such as paper, grass clippings, leaves or other organic material by mechanically blowing or hand raking the surface as needed.

B. During the one year warranty period, if minor amount of loose aggregate appears on the paving surface (1/16" to 1/4"), this material exceeds a 1/4" redistribute the material over the entire surface. The contractor will water thoroughly to the depth of 1". Compact with power roller of no less than 1000 lbs. This process should be repeated as needed.

C. If cracking occurs, the contractor will simply sweep fines into the cracks, water thoroughly and hand tamp with an 8" - 10" hand tamp plate.

**3.7 REPAIRS DURING THE ONE YEAR WARRANTY PERIOD**

A. Excavate damaged area to the depth of the Stabilized aggregate and square off sidewalks.

B. If area is dry, moisten damaged portion lightly.

C. Pre-blend the dry required amount of Stabilizer powder with the proper amount of aggregate in a concrete mixer.

D. Add water to the pre-blended aggregate and Stabilizer. Thoroughly moisten mix with 25 to 45 gallons per 1-ton of pre-blended material or to approximately 10 % moisture content.

E. Apply moistened pre-blended aggregate to excavated area to finish grade.

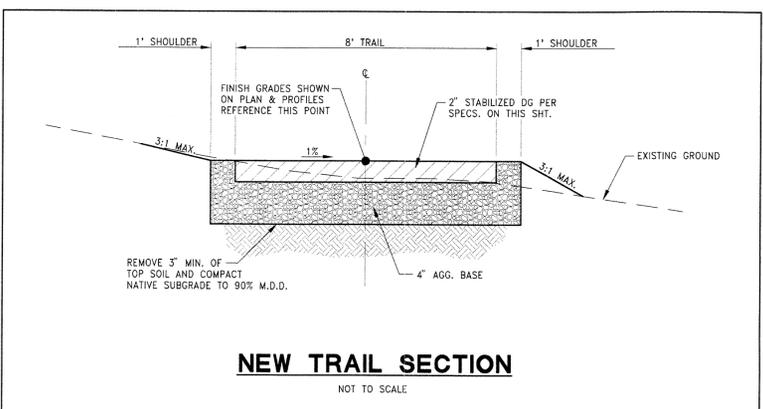
F. Compact with an 8" to 10" hand tamp or 250 to 300 pound roller. Keep traffic off areas for 12 to 48 hours after repair has been completed.

2" THICKNESS 1/4" OR 3/8" MINUS STABILIZED DECOMPOSED GRANITE-PER PLANS-INSTALL PER MANUF. INSTRUCTION-STABILIZER SOLUTIONS INC. 802-225-5900

AGG. BASE OR EXISTING GRAVEL BASE

COMPACTED SUBGRADE- GRADE TO INSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES

SCALE: 1" = 1'-0" SUR-001



**NEW TRAIL SECTION**

NOT TO SCALE



PROJECT NO.	8059.011
DRAWING	D-2
SHT	10 OF 18

DATE:	JULY 2009
SCALE:	AS SHOWN
DRAWN BY:	JLH
DESIGNED BY:	BRW
CHECKED BY:	RRW
NO.	
DESCRIPTION	
ENC. UNIT	
DATE	

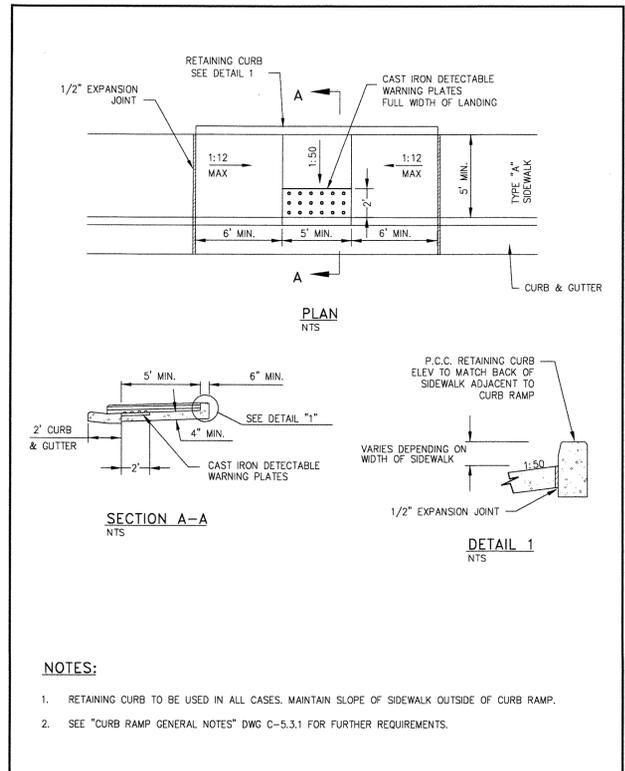
**WOOD RODGERS**  
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 5440 Reno Corporate Drive  
 Reno, NV 89511  
 Tel 775.823.4068  
 Fax 775.823.4066

IMPROVEMENT PLANS FOR  
**CARSON CITY WETLANDS**  
 SOUTH ACCESS, NORTHRIDGE DRIVE  
 DETAILS

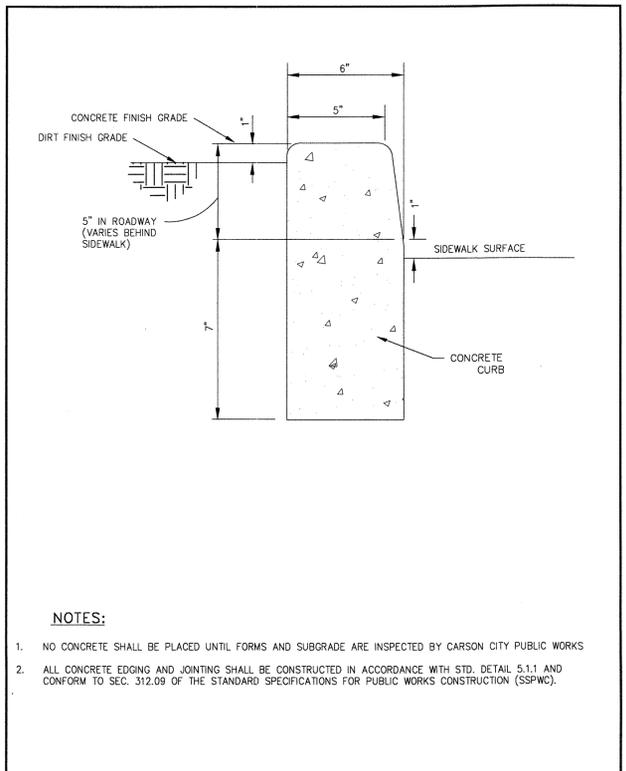
CARSON CITY, NEVADA

- 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  $\pm 1.5\%$ , 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 MAY BE USED UPON APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR WHERE 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.
- PLANT MIX 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 7005 SERIES CAST IRON DETECTABLE WARNING PLATES OR APPROVED EQUAL. INSTALLED PER MANUFACTURERS 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.

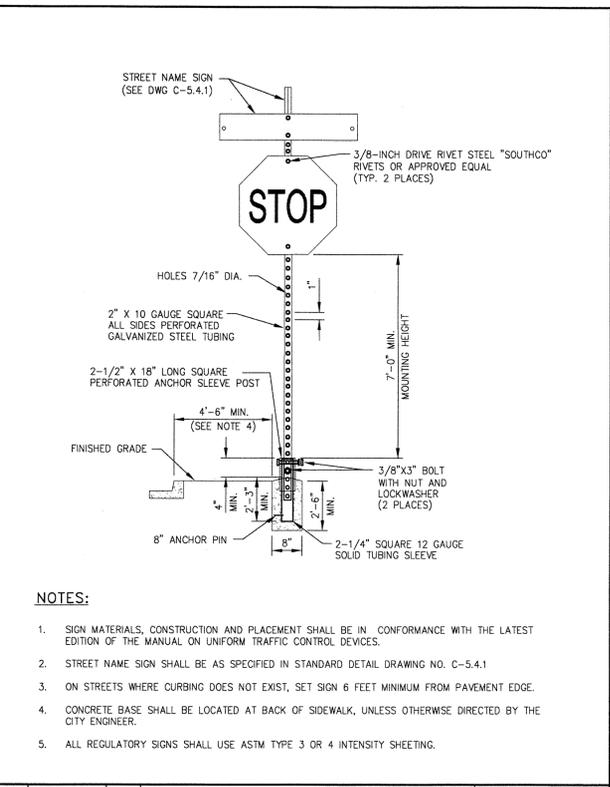
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			CURB RAMP GENERAL NOTES	CARSON CITY DRAWING NO. C-5.3.1
APPROVED BY:		7/09		DATE 7/2009



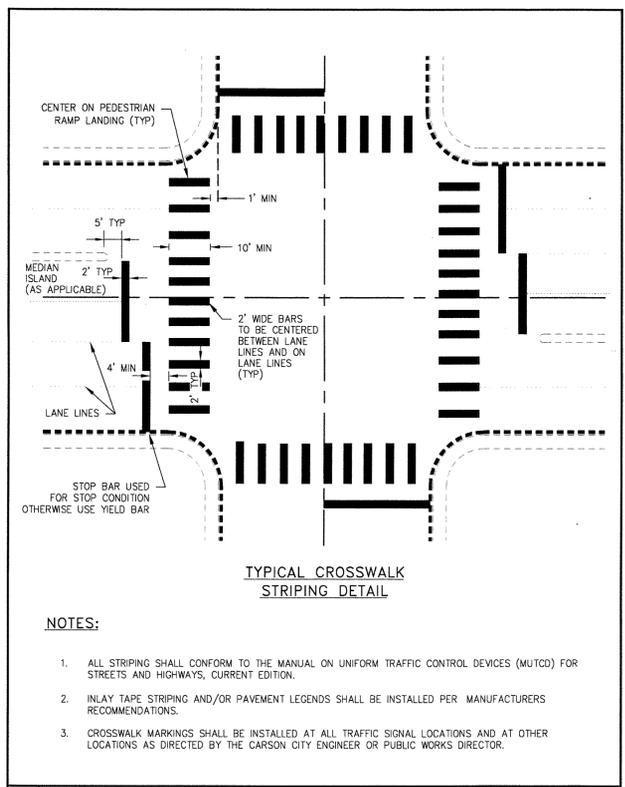
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			MID BLOCK CURB RAMP	CARSON CITY DRAWING NO. C-5.3.9
APPROVED BY:		7/09		DATE 7/2009



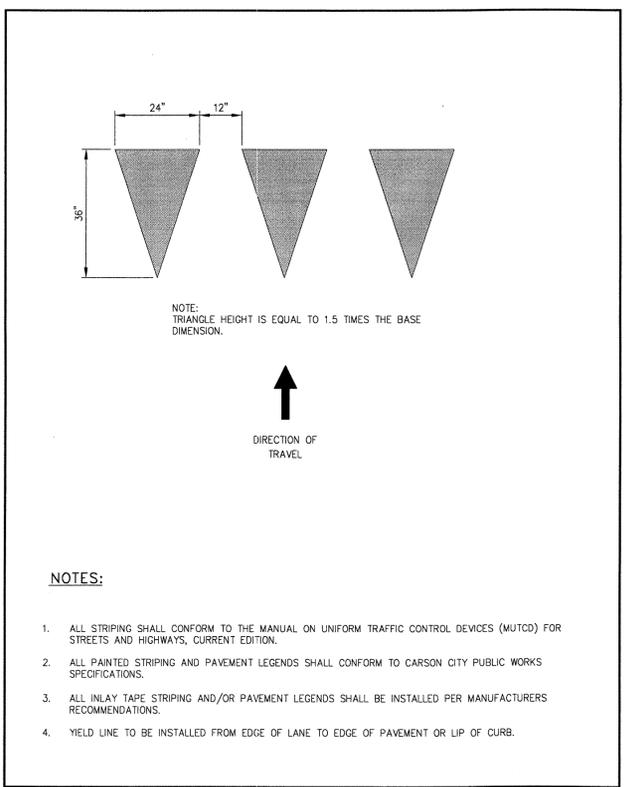
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			P.C.C. RETAINING CURB	CARSON CITY DRAWING NO. C-5.3.10
APPROVED BY:		7/09		DATE 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			TRAFFIC SIGN INSTALLATION	CARSON CITY DRAWING NO. C-5.4.2
APPROVED BY:		7/09		DATE 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			CROSSWALK LEGEND	CARSON CITY DRAWING NO. C-5.4.3
APPROVED BY:		7/09		DATE 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			YIELD LINE LAYOUT	CARSON CITY DRAWING NO. C-5.4.4
APPROVED BY:		7/09		DATE 7/2009

DATE: JULY 2009  
SCALE: AS SHOWN  
DRAWN BY: JLH  
DESIGNED BY: RRV  
CHECKED BY: GDC

WOOD RODGERS DESIGN SOLUTIONS  
DEVELOPING INNOVATIVE DESIGN  
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Fax 775.823.4066

NEVADA

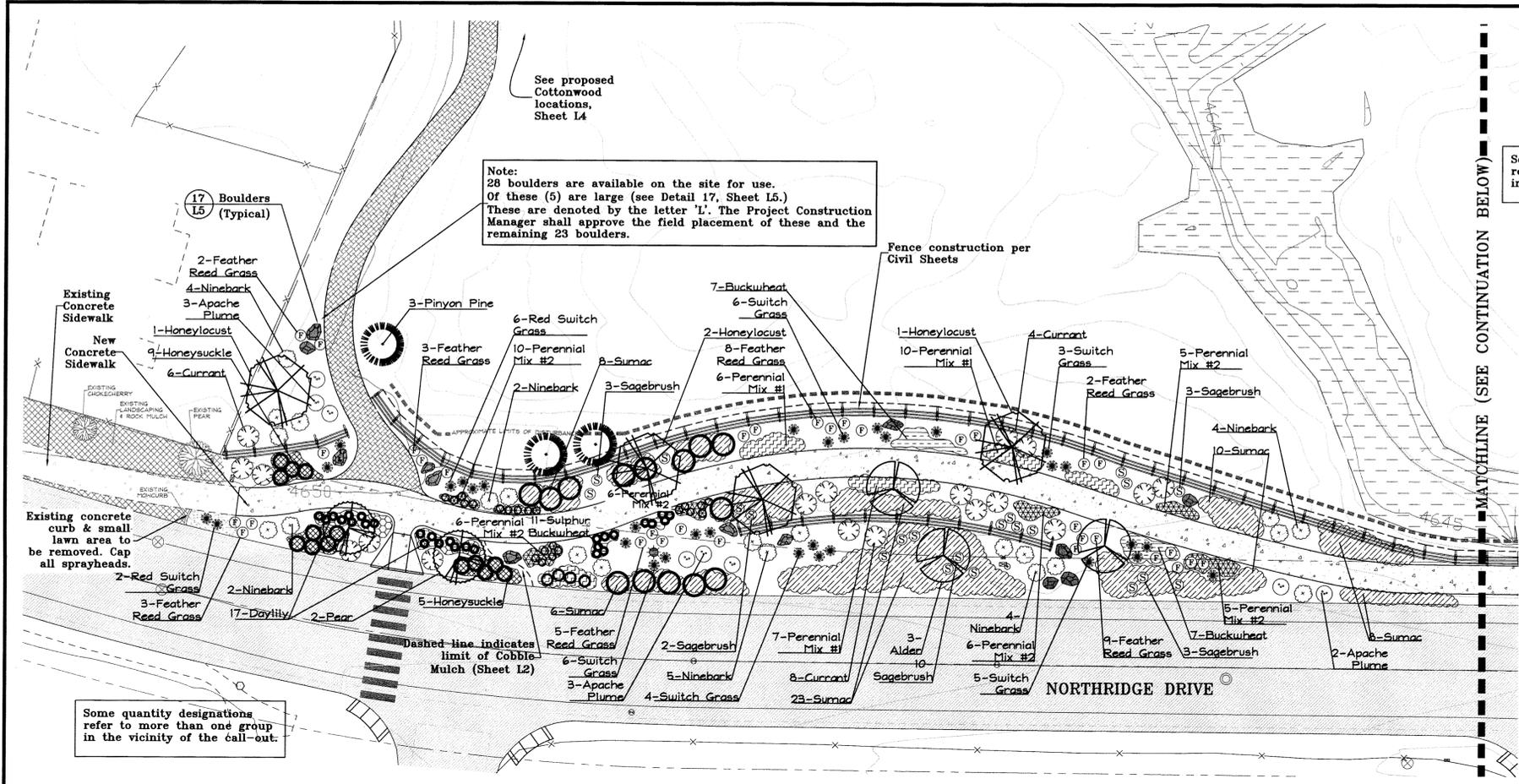
IMPROVEMENT PLANS FOR  
**CARSON CITY WETLANDS**  
**SOUTH ACCESS, NORTH RIDGE DRIVE**  
DETAILS

CARSON CITY

PROJECT NO. 8059.011  
DRAWING D-3

WOOD RODGERS  
PROFESSIONAL ENGINEER-STATE OF NEVADA  
CARY D. CHISUM  
Exp. 12-31-10  
No. 15194

DATE: 4-29-10

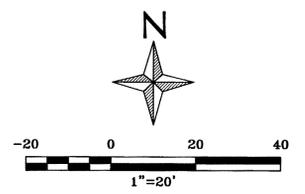
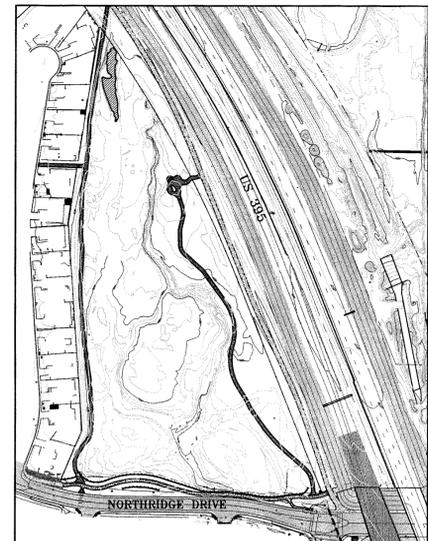
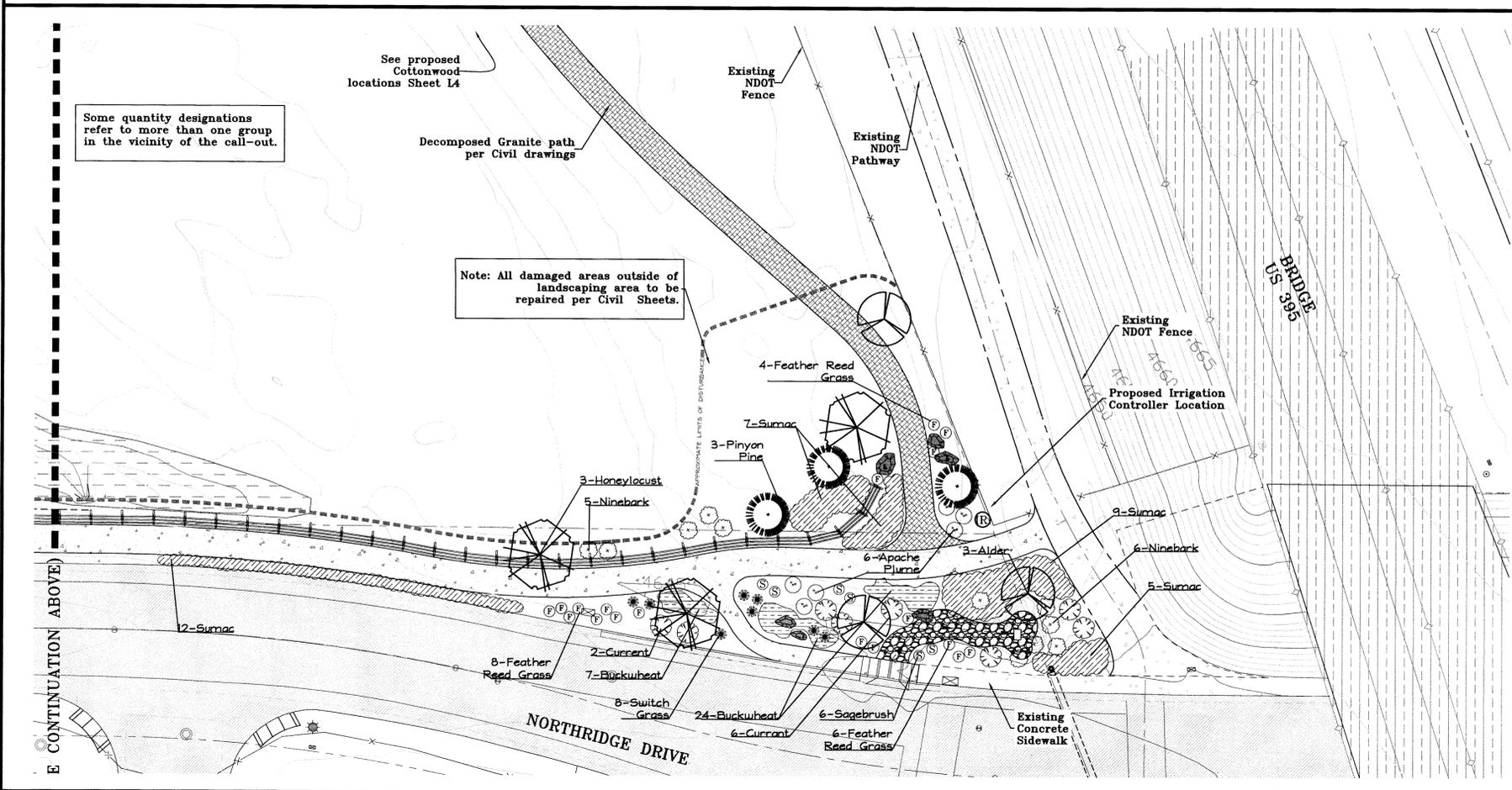


**PLANT LIST**

Quantity	Symbol	Botanical Name	Common Name	Planting Size
<b>TREES</b>				
8	⊗	<i>Alnus tenuifolia</i> (multi-trunked)	Mt. Alder/Thinleaf Alder	6'-8' Ht.
7	⊗	<i>Gleditsia triacanthus</i> 'Skyline'	Skyline Honeylocust	2"-Cal
13	⊗	<i>Populus deltoides</i> 'Siouxland'	Cottonwood	2"-Cal
2	⊗	<i>Pyrus calleryana</i> 'Chanticleer'	Chanticleer Pear	2"-Cal
6	⊗	<i>Pinus edulis</i>	Pinyon Pine	5'-6' HT.
<b>SHRUBS</b>				
27	⊗	<i>Artemisia tridentata</i>	Big Sagebrush	1-Gal
14	⊗	<i>Fallugia paradoxa</i>	Apache Plume	5-Gal
32	⊗	<i>Physocarpus opulifolius</i> 'Summer Wine'	Summer Wine Ninebark	5-Gal
26	⊗	<i>Ribes aureum</i>	Golden Currant	5-Gal
<b>GRASSES</b>				
67	⊗	<i>Calamagrostis x arundinacea</i> 'Karl Foerster'	Feather Reed Grass	1-Gal
48	⊗	<i>Panicum virgatum</i> 'Rotstrahlbusch'	Red Switch Grass	1-Gal
<b>GROUNDCOVERS/PERENNIALS</b>				
56	⊗	<i>Eriogonum umbellatum</i>	Sulphur Buckwheat	1-Gal Spaced @ 24" O.C.
17	⊗	<i>Hemerocallis 'Stella D'Oro'</i>	Stella D'Oro Daylilies	1-Gal Spaced @ 24" O.C.
14	⊗	<i>Lonicera japonica</i> 'Halliana'	Hall's Honeysuckle	1-Gal Spaced @ 4'-5" O.C.
27	⊗	Perennial Mix #1 (40% <i>Penstemon strictus</i> , 60% <i>Euphorbia griffithii</i> )	Rocky Mt. Penstemon Fireglow Spurge	1-Gal @ 24" O.C.
38	⊗	Perennial Mix #2 (40% <i>Asclepias tuberosa</i> , 60% <i>Penstemon eatonii</i> )	Butterfly Milkweed Firecracker Penstemon	1-Gal @ 24" O.C.
108	⊗	<i>Rhus aromatic</i> 'Grow-Low'	Grow-Low Sumac	1-Gal @ 5'-6' O.C.

**STREET TREE REQUIREMENTS**  
 (1) tree must be planted for every 30 l.f. street frontage.  
 Northridge Drive = 630 l.f. of landscape frontage = 21 trees

**\*\*NOTE: PLANT SPECIES MAY BE ALTERED BASED ON THE RESULTS OF SOILS TESTING**



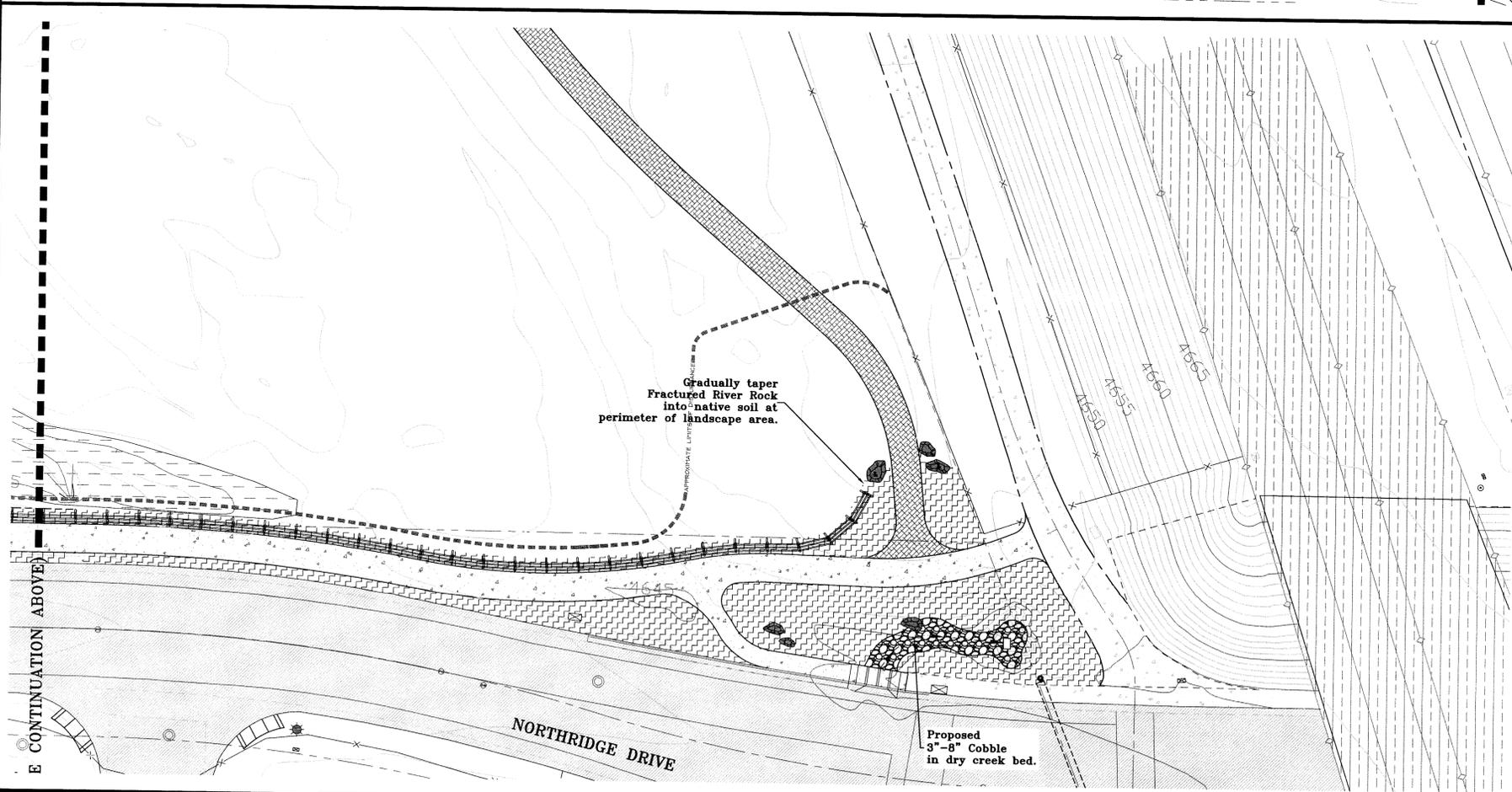
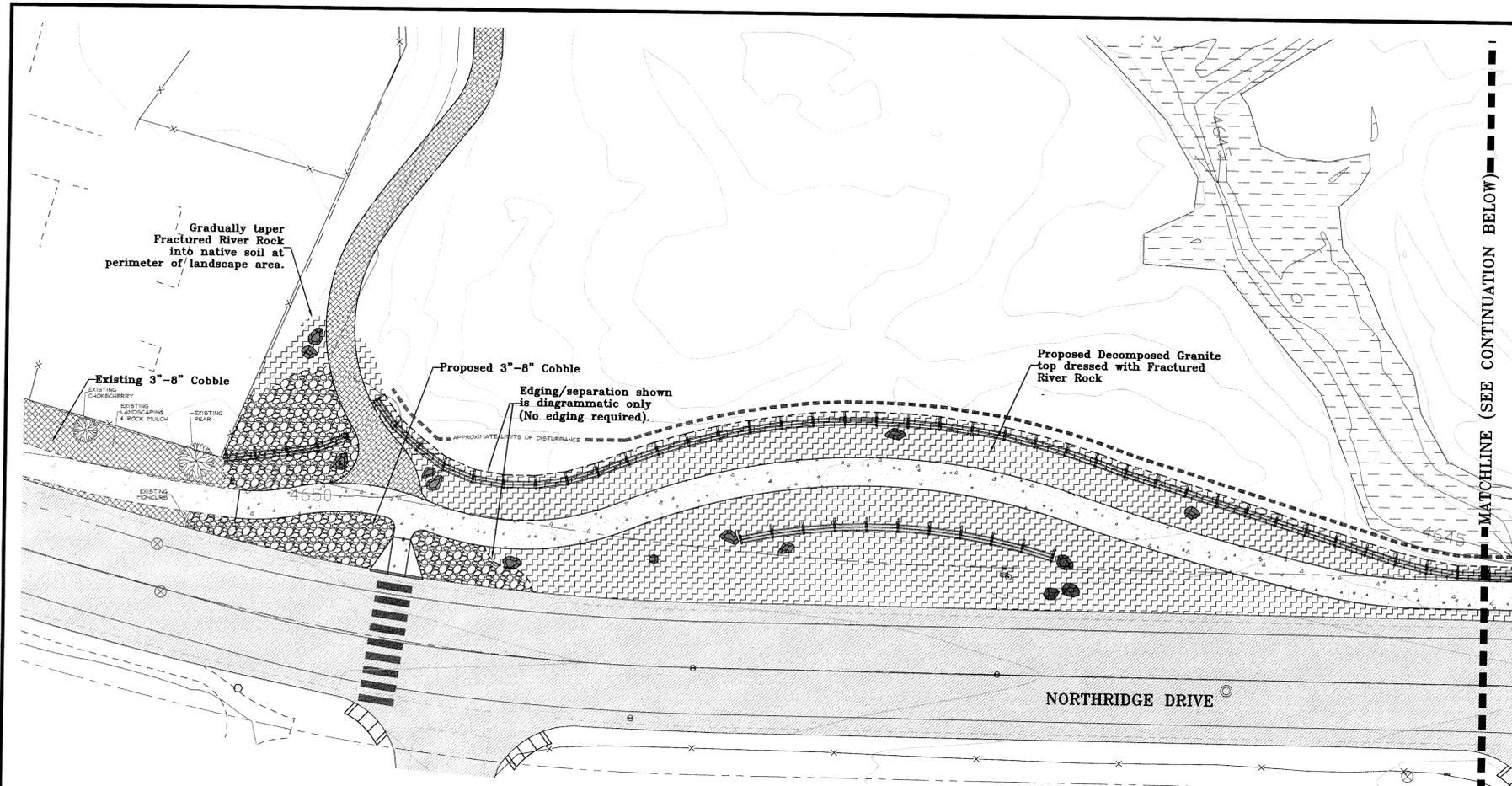
**LANDSCAPE ARCHITECT**  
 SANDRA WENDEL  
 1824 10th STREET, SUITE 3  
 MINDEN, NV 89423  
 (775) 782-8942  
 NV #301 and CA #2806

WOOD ROGERS  
 LANDSCAPE ARCHITECTS  
 5540 Reno Corporate Drive  
 Reno, NV 89511  
 Tel: 775.823-4088  
 Fax: 775.823-4089

DATE: 03/30/10  
 SCALE: H: 1"=20' V:  
 DRAWN BY: MAL  
 DESIGNED BY:  
 CHECKED BY: SW

NEVADA  
 CARSON CITY  
 IMPROVEMENT PLANS FOR  
**CARSON CITY WETLANDS**

PROJECT NO. 8059.011  
 LANDSCAPE  
 SHT L1 OF 7



**MULCHING LEGEND**



(2" Deep) Decomposed Granite with  
(1" Deep) Fractured River Granite raked  
in (mixture of 75% 3"-8" & 25% 1/2")  
Area= 14,020 S.F.



3"-8" Rounded River Cobble (cleaned and washed).  
Provide layer sufficient to cover fabric.  
Place DeWitt Pro-5 Weed fabric underneath.  
Area= 2,205 S.F.

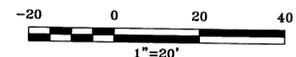
**Notes:**

1. Depress soil's rough grade 4" (inches) in all landscape areas. Mulch shall not mound up or spill over adjacent walks or curbs.
2. Rock mulches shall completely cover fabric.
3. Rock quantities may be slightly reduced from amounts shown due to required bark mulch around individual plants per notes, Sheet L6.
4. Dewitt Pro-5 Weed fabric shall be used under 3"-8" cobble rock areas only.
5. All rock must be cleaned and washed prior to delivery and installation.
6. Any substitution of rock must be submitted and pre-approved prior to project site delivery and installation.
7. Fabric is not a substitute for pre-emergent weed control. Ronstar (or approved equal) pre-emergent herbicide must be applied under all weed control fabric installed.



**BOULDER PLACEMENT**

Existing boulder placement is approximate.  
Final location shall be approved by the designated Project Construction Manager.



**LANDSCAPE ARCHITECT**  
SANDRA WENDEL  
1624 10th STREET, SUITE 3  
MINDEN, NV 89423  
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\*\*Note: The Decomposed Granite layer shall be spread first. Distribute Fractured River Rock (cleaned and washed) evenly over Decomposed Granite surface and lightly rake in to create an uneven/textured appearance.

MATCHLINE (SEE CONTINUATION BELOW)

CONTINUATION ABOVE

DATE: 03/30/10	SCALE: H: 1"=20' V: 1"=20'	DRAWN BY: MAL	DESIGNED BY:	CHECKED BY: SW
 <b>WOOD RODGERS</b> DEVELOPING • INNOVATIVE • DESIGN • INSTALLATION 5440 Reno Corporate Drive Tel 775.823.4066 Reno, NV 89511 Fax 775.823.4066				
NEVADA				
IMPROVEMENT PLANS FOR				
<b>CARSON CITY WETLANDS</b>				
CARSON CITY				
PROJECT NO. 8059.011	MULCHING			
SHT L2 OF 7				