STOREY COUNTY **CIVIL IMPROVEMENT PLANS** TAYLOR STREET

OWNER/DEVELOPER

STOREY COUNTY ATTN: JASON WIERZBICKI P.O. BOX 435 VIRGINIA CITY, NV 89440 TEL.: 775-847-0958

PROJECT SITE VIRGINIA CITY STORE LAKE TAHOE CARSON-CITY DOUGLAS



ENGINEER

950 SANDHILL ROAD, SUITE 100 RENO, NEVADA 89521 TEL: 775.827.6111 INFO@LUMOSINC.COM



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APN: 001-085-01



BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS N 12°52'02" E, BEING THE GRID BEARING BETWEEN USC&GS STATION "WHEELER" AND NDOT HARN POINT 8B. BASED ON THE NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83(94). DISTANCES SHOWN HEREON ARE GROUND VALUES BASED ON THE COMBINED FACTOR OF 0.9997470400, SCALED FROM 0.00N ,0.00E AND CONVERTED TO U.S. SURVEY FEET.



DATUM: NAVD 88 PROJECT BENCHMARK = NDOT CONTROL MONUMENT NO. 1044001A HAVING AN ELEVATION OF 4197.37'



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C1.0 TITLE SHEET

- C1.1 GENERAL NOTES
- C2.0 EXISTING CONDITIONS & DEMO PLAN
- C3.0 SITE PLAN
- C4.0 GRADING PLAN
- C4.1 BID ALTERNATE
- C4.2 EROSION CONTROL PLAN
- C5.0 DETAILS

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- EX REC WL - RECLAIMED WATER LINE REC WL - REC

LEGEND

AC	ASPHALT CONCRETE	Ν	NORTH
ACP	ASBESTOS CEMENT PIPE	NAP	NOT A PART
AGG	AGGREGATE	NIP	NOT IN PROJECT
BC	BEGIN CURVE (HORIZONTAL)	NTS	NOT TO SCALE
BOW	BOTTOM OF WALL	OC	ON CENTER
BF. BOF	BOTTOM OF FOOTING	OD	OUTSIDE DIAMETER
BV	BUTTERELY VALVE	OH	OVERHEAD
BVC	BEGIN VERTICAL CURVE	(P)	PROPOSED
BW	BACK OF WALK		
CB		100	
ofe		PC	
CaG	CORB AND GUITER	PIVC	
<u>د</u>	CENTER LINE	PL	
CL	CLASS / CENTER LINE	PP BB2	
CMP	CORRUGATED METAL PIPE	PRC	POINT OF REVERSE CURVE
COMP	COMPACTION	PRVC	POINT OF REVERSE VERTICAL CURVE
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONTR	CONTRACTOR	PVMT	PAVEMENT
CP		Q 5	5 YEAR PEAK FLOW
		Q 100	100 YEAR PEAK FLOW
		R	RADIUS
		RCP	REINFORCED CONCRETE PIPE
		REF	REFERENCE
		RET	CURB RETURN
E	EASI	RP	RADIUS POINT
EA	EACH	RT	RIGHT
EC	END CURVE (HORIZONTAL)		
ELL	ELBOW	S-	
ELEC	ELECTRICAL	0- S	
ELEV	ELEVATION	5 80	
EVC	END VERTICAL CURVE		
EX, (E)	EXISTING	SDMH	
EXT	EXTERIOR	SL	STREET LIGHT
FCA	FLANGE COUPLING ADAPTER	SS	SANITARY SEWER
FF	FINISH ELEVATION	SSCO	SANITARY SEWER CLEAN OUT
FES	FLARED END SECTION	SSMH	SANITARY SEWER MANHOLE
FF	FINISH FLOOR	SSPWC	STANDARD SPEC. FOR PUBLIC WORKS
FFC			CONSTRUCTION
FG		STA	STATION
FU		SW	SIDEWALK
		TELE	TELEPHONE
		ТВО	TEMPORARY BLOW OFF VALVE
FLG fmc		TC	TOP OF CURB, TOP OF CONC
ips FTO		TCSB	TRAFFIC CONTROL SIGNAL BOX
FIG	FUUTING	TG	TO GRADE
G		ТОВ	TOP OF BERM
GALV	GALVANIZED	TF. TOF	TOP OF FOOTING
GB	GRADE BREAK	TOW	TOP OF WALL
GDW	GRAVEL DRIVEWAY	TS	
GD	GROUND	TR	
GV	GATE VALVE	TRANS	TRANSITION
Н	HANDICAPPED		
HGL	HYDRAULIC GRADE LINE		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
ID	INSIDE DIAMETER	V S	
IE	INVERT ELEVATION		
INT	INTERSECTION	VEL	
IRR	IRRIGATION	VERI	VERTICAL
LAT	LATERAL	VG	
LF	LINEAR FEET	VV	WEST
LP	LOW POINT	W/G	WATER AND GAS
 LT	LEFT	WL	WATER LINE
MAX	MAXIMUM	WM	WATER METER
MDD		WS	WATER SURFACE
MH		WV	WATER VALVE
MIN		WWF	WELDED WIRE FABRIC
		YR	YEAR



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# ABBREVIATIONS



#### GENERAL

- 1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC
- WORKS CONSTRUCTION, 2012 LATEST REVISION. 2. THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE PERMITTING ENTITY, FOR ALL DETAILING NOT
- SHOWN ON THESE PLANS. 3. CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND CURRENT NDOT STANDARD PLANS/SPECIFICATIONS (STANDARD SPECIFICATIONS) AND MANUAL ON
- UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES, OWNER'S REPRESENTATIVES, AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK. THIS MEETING SHALL BE HELD AT LEAST FORTY-EIGHT (48) HOURS, OR TWO (2) BUSINESS DAYS, PRIOR TO THE START OF CONSTRUCTION AND SHALL COMMUNICATE SCHEDULES, CONTRACTORS MEAN AND METHODS, MATERIALS TO BE USED, AND OTHER RELEVANT MATTERS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.
- 5. ALL WORK EITHER DIRECTLY OR INDIRECTLY RELATED TO THE PROJECT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY SYSTEM MANAGER.
- 6. THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
- 7. CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO ORDERING OR INSTALLATION. A SIGNED SET OF REVIEWED SUBMITTALS MUST ALWAYS BE AVAILABLE ONSITE DURING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 9. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK; UNLESS OTHERWISE OBTAINED BY THE OWNER.
- 11. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY. ALL TRAFFIC CONTROL OPERATIONS SHALL COMPLY WITH THE LATEST MUTCD. AT NO TIME WILL OBSTRUCTIONS BE LEFT IN THE ROADWAY DURING NIGHT HOURS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR ATTSA CERTIFIED PERSONNEL.
- 12. THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
- 13. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
- 14. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- 15. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
- 16. TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPORARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, CREATE A VISUAL BARRIER OF THE CONSTRUCTION ACTIVITIES FROM THE ADJACENT RESIDENCE AND YARDS, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
- 17. THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF THE PROJECT SITE.
- 19. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 7:00 AM AND 6:00 PM UNLESS OTHERWISE DICTATED BY LOCAL ORDINANCE. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER TO MODIFY WORK HOURS.
- 20. ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE PROJECT ENGINEER. 21. 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 PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 22. ALL SALVAGED MATERIALS ARE THE PROPERTY OF THE OWNER AND SHALL BE PALLETIZED ONSITE UNLESS OTHERWISE ARRANGED WITH THE OWNER AND/OR PROJECT ENGINEER.
- 23. THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS AS REQUIRED TO COMPLY WITH LOCAL ORDINANCES.
- 24. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THIS PROJECT. ALL RECOMMENDATIONS INCLUDED IN THE REPORT ARE HEREBY MADE A PART OF THE CONSTRUCTION DOCUMENTS UNLESS MODIFIED WITHIN THESE PLANS. INSPECTION AND TESTING DURING CONSTRUCTION SHALL BE REQUIRED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN THE REPORT. TITLE: TAYLOR STREET PARCEL STABILIZATION DATE: AUGUST 2023

### UNDERGROUND UTILITIES

- 25. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
- 26. NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH. 27. ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.

- **NOTES:** 
  - 28. CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND GOVERNING SAFETY REGULATIONS. SHEETING OR SHORING SHALL CONFORM TO LOCAL REGULATIONS AND OSHA STANDARDS.

#### **GRADING, EXCAVATION & SURFACE IMPROVEMENTS**

- 29. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET THE PROJECT ACCORDINGLY. ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF OFFSITE.
- 30. ALL EARTHWORK ACTIVITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
- 31. THE SOILS ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
- 32. CONTRACTOR SHALL PROTECT EXISTING PAVING, CONCRETE, LANDSCAPING, FENCING, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.
- 33. ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT THREE FEET MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED PAVEMENT TIE-IN EDGES SHALL BE METICULOUSLY CLEANED OF ALL LOOSE MATERIAL AND THEN TREATED WITH BITUMINOUS EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.

#### **ENVIRONMENTAL**

- 34. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
- 35. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
- 36. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT. 37. ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF AN APPROVED DUST
- PALLIATIVE OR HYDROMULCH. 38. THE CONTRACTOR SHALL IDENTIFY A STANDBY CREW FOR EMERGENCY WORK AND THEY SHALL BE AVAILABLE AT ALL TIMES. MATERIAL NECESSARY TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION
- CONTROL MEASURES SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS. 39. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
- 40. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED. 41. FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF
- THE SLOPE AT THE END OF EACH WORKING DAY 42. ALL DISTURBED AREAS ARE REQUIRED TO HAVE A PALLIATIVE APPLIED FOR DUST CONTROL. ALL GRADING SHALL COMPLY WITH STATE AND COUNTY REGULATIONS.
- 43. A SIX-FOOT HIGH PERIMETER FENCE OR A 24-HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN A FACILITY EXCEEDS 18".
- 44. ALL AREAS DISTURBED BECAUSE OF THE WORK SHALL BE REVEGETATED IN ACCORDANCE WITH INDUSTRY BEST MANAGEMENT PRACTICES.
- 45. IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, PREPARE A DEWATERING PLAN, AND OBTAIN APPROVAL FROM THE PROJECT ENGINEER BEFORE PROCEEDING WITH WORK. DEWATERING ACTIVITIES MAY REQUIRE THE CONTRACTOR TO OBTAIN A DISCHARGE/PUMPING PERMIT FROM THE STATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH PERMITS
- 46. ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.



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Know what's **below**. **Call** before you dig.



22x34 SHEETS: 1" = 10' 11x17 SHEETS: 1" = 20'



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#### MATERIAL SPECIFICATIONS

#### 1. CONCRETE SPECIFICATIONS

- 1.A. SITE CONCRETE SHALL CONFORM TO SECTIONS 202, 312, AND 337 OF THE SSPWC. SEE DETAILS 1, 2, AND 4, SHEET C5.0 1.B. JOB MIX FORMULA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PREPARING AND PLACING ANY PCC MIXTURE. FORMULA SHALL BE PREPARED WITHIN ONE YEAR OF SUBMITTAL BY AN APPROVED COMMERCIAL
- LABORATORY. THE MIX DESIGN SHALL CONFORM TO SECTION 337.10 OF THE SSPWC. 1.C. MANUFACTURER OF READY-MIXED CONCRETE PRODUCTS MUST COMPLY WITH ASTM C 94.
- 1.D. REINFORCING BARS SHALL BE GRADE 60 DEFORMED AND FREE FROM RUST, SCALE, OIL, OR FROST. STEEL SHALL CONFORM TO ASTM A 615, SECTION 206 OF THE SSPWC, AND COMPLY WITH ACI REQUIREMENTS.

#### 2. AGGREGATE BASE SPECIFICATIONS

- 2.A. TYPE 2, CLASS B AGGREGATE BASE SHALL CONFORM THE GEOTECHNICAL REPORT AND TO SECTION 200.01 AND 308 OF THE SSPWC. 2.B. BEFORE THE DELIVERY OF MATERIALS, THE FOLLOWING TEST REPORTS MUST BE SUBMITTED FOR APPROVAL, WITHIN AT LEAST 14 DAYS OF PROPOSED USE: GRADATION, R-VALUE, ATTERBERG LIMITS, RESISTANCE TO WEAR, AND FRACTURED FACE.
- 2.C. IN ADDITION, IT SHALL BE DEMONSTRATED THE AGGREGATE BASE HAS A MINIMUM PHI ANGLE OF 40 DEGREES AND A MINIMUM COHESION VALUE OF 400 PSF. 2.D. REFERENCE TABLE 200.01.03-I OF THE SSPWC FOR GRADATION. THE MATERIAL SHALL NOT HAVE A LIQUID LIMIT OF MORE THAN 35 AND A PLASTICITY INDEX OF NOT MORE THAN 10, AS DETERMINED BY ASTM D 4318. PREPARE SAMPLES IN ACCORDANCE WITH THE DRY PREPARATION METHOD DETAILED IN ASTM D4318.

#### 3. ASPHALT SPECIFICATIONS

- 3.A. ASPHALT PAVEMENT SHALL CONFORM TO THE GEOTECHNICAL REPORT, AND TO SECTIONS 201, 320, AND 337 OF THE SSPWC. SEE DETAIL 3, SHEET C5.0. 3.B. JOB MIX FORMULA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PREPARING AND PLACING THE BITUMINOUS MIXTURE. FORMULA SHALL BE PREPARED WITHIN ONE YEAR OF SUBMITTAL BY AN APPROVED COMMERCIAL LABORATORY. THE FORMULA SHALL CONFORM TO SECTION 337.04 OF THE SSPWC.
- 3.C. AGGREGATES SHALL CONFORM TO SECTION 200.02 OF SSPWC, TYPE 2
- 3.D. ASPHALT CEMENT: PG64-28NV, SECTION 201, TABLE 201.02-IV OF SSPWC

#### 4. RIPRAP SPECIFICATIONS

- 4.A. RIPRAP SHALL BE CLASS 150 AND CONFORM TO SECTION 200.07 OF THE SSPWC.
- 4.B. STONE FOR RIPRAP SHALL BE HARD, DURABLE, ANGULAR IN SHAPE; RESISTANT TO WEATHERING AND TO WATER ACTION; FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATERIAL; AND SHALL MEET THE GRADATION REQUIREMENTS SPECIFIED. THE LARGEST DIMENSION OF A SINGLE RIPRAP STONE SHALL BE NO LARGER THAN THREE (3) TIMES THE SMALLEST DIMENSION. ROUNDED STONE OR BOULDERS SHALL NOT BE ACCEPTED. SHALE AND STONE WITH SHALE SEAMS ARE NOT ACCEPTABLE. 4.C. PRIOR TO PLACING RIPRAP, GEOTEXTILE FABRIC SHALL BE PLACED AGAINST NATIVE GROUND AND ANCHORED PER MANUFACTURER'S RECOMMENDATIONS FOR THE APPLICATION.
- 5. STRUCTURAL FILL SPECIFICATIONS
- 5.A. STRUCTURAL FILL SHALL CONSIST OF A NON-EXPANSIVE MATERIAL AND SHOULD BE FREE OF CONTAMINANTS, ORGANICS, RUBBLE, OR NATURAL ROCK LARGER THAN FOUR (4) INCHES IN LARGEST DIMENSION. THE SOLUBLE SULFATE CONTENT SHALL BE LESS THAN 0.1% AND THE R-VALUE SHALL BE A MINIMUM OF 30. ANY IMPORT SOILS SHOULD BE TESTED AND APPROVED PRIOR TO BEING PLACE OR DELIVERED ON SITE SEVEN (7) DAYS ADVANCED NOTICE. REFERENCE GEOTECHNICAL REPORT.
- 5.B. STRUCTURAL FILL SOILS SHALL MEET THE GRADATION REQUIREMENTS OF TABLE 2 IN THE GEOTECHNICAL REPORT. 5.C. COMPACTED FILL SHOULD BE PLACED ONLY ON COMPACTED SUB-GRADE OR ON COMPACTED FILL IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE THICKNESS, MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM, AND COMPACTED TO AT LEAST 90% RELATIVE COMPACTION, PER ASTM D 1557.

#### 6. FENCING SPECIFICATIONS

- 6.A. FENCE SHALL BE 40" TALL, GALVANIZED STEEL WITH TWO RAILS, AND BE POWDER-COATED BLACK PER PLANS. REFERENCE DETAILS 6 & 7, SHEET C5.0. 6.B. GALVANIZED STEEL PICKETS AND POSTS SHALL COMPLY WITH ASTM F2408 WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI. RAILS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI AND BE HOT-DIP GALVANIZED TO MEET ASTM A653.
- 6.C. MANUFACTURER SHALL BE MERCHANTS METALS OR APPROVED EQUAL.
- 6.D. CAST-IN-PLACE CONCRETE SHALL BE PORTLAND CEMENT COMPLYING WITH ASTM C150 WITH TYPE 1 AGGREGATES COMPLYING WITH ASTM C33 AND POTABLE WATER. CONCRETE MIXES SHALL BE NORMAL-WEIGHT, AIR-ENTRAINED WITH NOT LESS THAN 3000 PSI COMPRESSIVE STRENGTH (28 DAYS), 4-INCH MAXIMUM SLUMP, 1-INCH MAXIMUM SIZE AGGREGATE, AND AIR ENTRAINMENT 6% ±1.5%.



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## Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C1	19.02	90.79	12.00
L1	124.11	S73° 06' 45.00"E	
L2	126.72	S73° 06' 45.00"E	
L3	4.11	N61° 53' 15.00"E	
L4	22.01	N15° 04' 11.85"E	

HORIZONTAL CONTROL POINT 893 N: 14785475.44





POINT #

RP 1

RP 2

RP 3

RP 4

RP 5

RP 6



**REFERENCE POINT (RP) TABLE** 

- DESCRIPTION BEGIN FENCE FENCE CORNER FENCE CORNER BEGIN SWALE FLOWLINE SWALE FLOWLINE ANGLE POINT END SWALE FLOWLINE
- NORTHING EASTING 14785507.74 2322831.13 14785470.92 2322952.38 14785472.86 2322956.01 14785521.04 2322847.56 14785491.31 2322945.48 14785491.42 2322961.01



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6220

6210

6200

6190

## **GRADING NOTES**

- 1. ADD 6,200 AND 6,100 TO ALL SPOT ELEVATIONS. 2. PLACEMENT AND COMPACTION OF TYPE 2, CLASS B AGGREGATE BASE
- ADJACENT TO EXISTING HISTORICAL BRICK WALL SHALL BE DONE IN A MANNER TO LIMIT DISTURBANCE AND MAINTAIN THE STRUCTURAL STABILITY OF THE WALL 3. BOARDWALK BOARDS SHALL BE SALVAGED AND REINSTALLED. IF BOARDS ARE DAMAGED AND DEEMED UNSALVAGEABLE, THEN NEW BOARDS SHALL BE INSTALLED.

## LEGEND

20	EXISTING CONTOUR
20	PROPOSED CONTOUR
	GRADE BREAK
	SHOULDER
	CLASS 150 RIP RAP SWALE (SEE DETAIL 1, THIS SHEET)

TYPE 2, CLASS B AGGREGATE BASE



## CROSS SECTION A-A - STA:-0+10 TO STA:0+50







ALL TOP LIFT LONGITUDINAL JOINTS SHALL BE "HOT" JOINTS UNLESS OTHERWISE APPROVED OR DIRECTED BY THE AGENCY OR DESIGN ENGINEER.



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LUMOS & ASSOCIATES

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## SITE NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY BEEN DISCHARGED OR ACCUMULATED, AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIC IN THE WASHOE COUNTY ORDINANCE NO. 1223 AND THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.1.B.(2).

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.1.G.

5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 30 PERCENT OR MORE.

1. 2. SAND BAG SIZE SHALL BE 18" x 12" x 6". 3. 4. STAGGER SAND BAGS SO ENDS DO NOT ALIGN.

ONE-THIRD OF TOTAL BARRIER HEIGHT. FENCES FOR MORE THAN 7 DAYS. GEOTEXTILE FABRIC.

CONSTRUCTION ACTIVITIES.

## SEDIMENT CONTROL NOTES

- SAND BAG BERM HEIGHTS SHALL BE NO GREATER THAN 18".
- SAND BAG FILL MATERIAL SHALL BE NON-COHESIVE, FREE FROM CLAY OR OTHER DELETERIOUS MATERIALS AND SHOULD CONFORM TO 200.05.04 OF THE ORANGE BOOK.
- 5. REMOVE SILT BEHIND SAND BAG BARRIERS AND SILT FENCE ONCE IT HAS REACHED
- 6. FROM MAY TO OCTOBER, WATER SHALL NOT POND BEHIND SAND BAG BARRIERS OR SILT
- 7. STABILIZED ENTRANCE AND EXIT SHALL BE CONSTRUCTED OF 1-3 INCH WASHED WELL-GRATED GRAVEL OR CRUSHED ROCK AT A MINIMUM THICKNESS OF 12" OVER
- 8. EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO COMMENCEMENT OF
- 9. INSPECT SAND BAGS AND EXISTING DRY CREEK WEEKLY AFTER RAINFALL EVENTS.
- 10. DAILY INSPECTION ARE TO BE PERFORMED ON ANY AREAS EXPERIENCING EXCESSIVE WINDS, VEHICLE TRAFFIC OR RAINFALL. 11. CONTRACTOR TO MINIMIZE FUGITIVE DUST FROM LEAVING THE SITE BY UTILIZING
- WATER TRUCKS AND/OR PALLIATIVE CONTINUOUSLY THROUGHOUT THE CONSTRUCTION PROCESS. FREQUENCY OF APPLICATION BASED ON WEATHER CONDITIONS.
- 12. CONTRACTOR TO EVALUATE AND IMPROVE EROSION CONTROL MEASURES WHEN NECESSARY THROUGHOUT THE CONSTRUCTION PROCESS.
- 13. CONTRACTOR MAY CHANGE LOCATION OF GRAVEL ENTRYWAY, CONCRETE WASHOUT AREA, AND SILT FENCE AREA TO SUIT HIS/HER NEEDS.

## LEGEND

$\beta$	BMP DP-2: OUTLET PROTECTION
	BMP GM-9: HANDLING & DISPOSAL OF CONCRETE
oo	BMP SC-1: FIBER ROLLS
SM	BMP GM-2: STOCKPILE MANAGEMENT
	BMP SC-8: GRAVEL ACCESS (ENTRANCE & EXIT)
x	BMP SC-5: SILT FENCE
4486	EXISTING CONTOURS
(4486)	PROPOSED CONTOURS





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11x17 SHEETS: 1" = 20'



1. ALL COMPONENTS OF THE PANEL TO BE POWDER

3" MIN. (TYP.)

COATED BLACK WITH PRIMER.

NOTES

⁶ FENCE

C5.0

SCALE: NTS

POST OF FRAME-

HINGE BOLT NUT ~

GATE

\C5.0∕

PRESSED STEEL SQUARE HINGE

-SELF-TAPPING BOLT

ASSEMBLED HINGE AND

GATE UPRIGH

STRAP



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BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET,

ADJUST SCALES ACCORDINGLY

**C5.0** 

CVJ

CVJ

DLS

10119.008

DRAWN BY:

DESIGNED BY:

CHECKED BY:

JOB NO.:

950 SANDHILL ROAD, SUITE 100

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- CONCRETE TO FINISH GRADE. LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED. R-4.3.3 AND STANDARD SPECIFICATION 609.
- (T009-BL05). VALVE NUT AND VALVE STEM EXTENSION SHALL BE DRILLED AND PINNED TOGETHER WITH 3/8 INCH X 3 INCH STAINLESS SPRING PIN.

WATER VALVE 8 C5.0

SCALE: NTS

AND FRAME WITH TYPE 3 PG 64-22 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO THE SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND

ÈVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHEET

VALVES ON FIRE LINES SHALL BE UL/FM APPROVED AND MEET ALL APPLICABLE NFPA REQUIREMENTS. PLACER WATERWORKS INC. VALVE STEM EXTENSIONS OR APPROVED EQUAL SHALL BE USED AS NEEDED TO MAINTAIN A 28 INCH TO 60 INCH DEPTH FROM TOP OF VALVE CAN TO TOP OF OPERATOR NUT. VALVE STEM EXTENSIONS SHALL BE STEEL WITH 2 INCH OPERATOR NUTS AND 5.5 INCH STEEL CENTERING RING. ALL PARTS TO BE POWDER COATED BLUE

SCALE: NTS