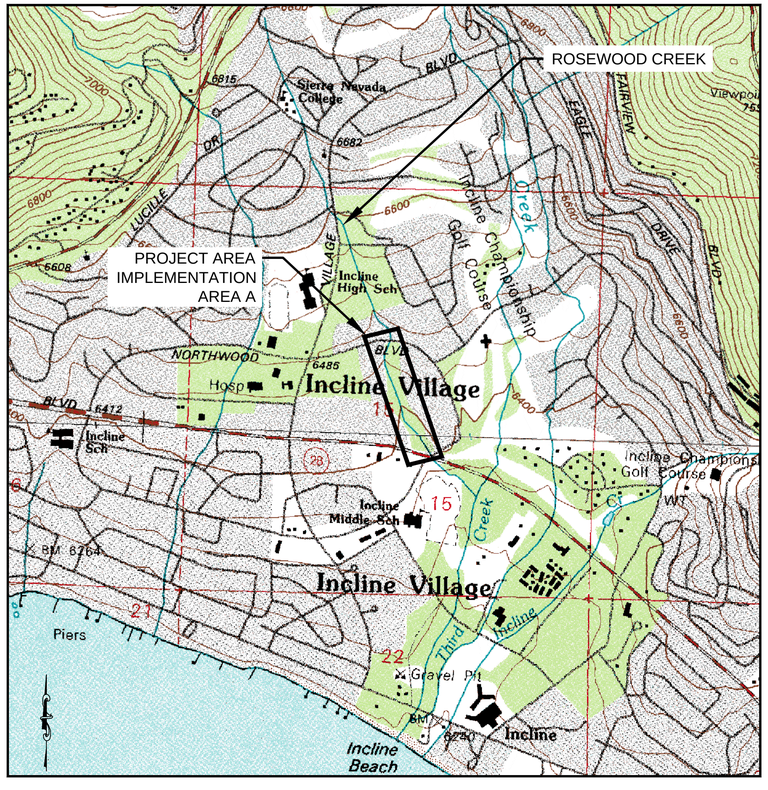
NEVADA TAHOE CONSERVATION DISTRICT

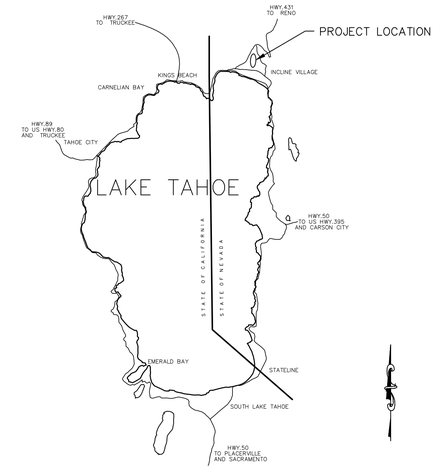
MIDDLE ROSEWOOD CREEK SEZ RESTORATION – AREA A

IN THE COUNTY OF WASHOE
PWP–WA–2012–307



PROJECT AREA MAP

INCLINE VILLAGE
SCALE 1"=300'



VICINITY MAP

N.T.S.

RECORD DRAWINGS:

ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION, I.E. "RECORD DRAWINGS" INFORMATION, SHOWN HEREIN WERE MADE UNDER THE DIRECTION OF THE UNDERSIGNED CONTRACTOR AND RESIDENT ENGINEER AND ARE CORRECT AND COMPLETE TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR CHANGES TO THESE PLANS NOT AUTHORIZED BY THE DESIGN ENGINEER (ENGINEER OF RECORD) IN WRITING.

RESIDENT ENGINEER SIGNATURE/SEAL
REGISTERED CIVIL ENGINEER
STATE OF NEVADA, NO. _____

DATE

CONTRACTOR'S SIGNATURE

DATE

DESIGN ENGINEER

DATE

JUNE 2012

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REVISIONS

MARK	DATE	BY	

Nevada Tahoe Conservation District

WOOD RODGERS

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
TITLE SHEET

DATE
6/2012

Sheet i
SHEET 1 OF 134

GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE NEVADA TAHOE CONSERVATION DISTRICT (NTCD) AND THE ENGINEER. IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE WASHOE COUNTY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION) (ORANGE BOOK) AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION), UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" SHALL MEAN THE WASHOE COUNTY ORANGE BOOK. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC STATE, REGIONAL, OR LOCAL ORDINANCES SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL TECHNICAL SPECIFICATIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
2. CONSTRUCTION HOURS SHALL BE WEEKDAYS (NON-HOLIDAY) BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM WASHOE COUNTY.
3. THE LOCATIONS AND EXTENT OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONTRACTOR NOTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
4. UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL 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 IN ACCORDANCE WITH THESE PLANS, THE WASHOE COUNTY ORANGE BOOK, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION .
6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE 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 CONTRACT AND STANDARD SPECIFICATIONS.
7. THERE SHALL BE NO GRADING OR LAND DISTURBANCE PERFORMED WITH RESPECT TO THE PROJECT BETWEEN OCTOBER 15 AND MAY 1 UNLESS PROPER APPROVALS ARE OBTAINED FROM THE TAHOE REGIONAL PLANNING AGENCY (TRPA), AS PROVIDED IN THE LIMITED EXEMPTION DESCRIBED IN SUBSECTION 4.2.A. OF THE TRPA CODE OF ORDINANCES. IF REQUIRED, THE CONTRACTOR SHALL OBTAIN THESE APPROVALS.
8. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO NEVADA TAHOE CONSERVATION DISTRICT (NTCD) AND ENGINEER A SET OF PLANS, MARKED UP TO THE SATISFACTION OF BOTH PARTIES, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
9. ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE FACILITY SHOWN UNLESS OTHERWISE NOTED.
10. AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL FROM INCLINE VILLAGE GENERAL IMPROVEMENTS DISTRICT (IVGID). APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, THE CONTRACTOR MUST ADVISE IVGID.
11. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK IS CONTROLLED IN CONFORMANCE WITH STATE, COUNTY, AND LOCAL ORDINANCES. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REGARDING SWEEPING, DUST CONTROL AND TRACKING REQUIREMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL CONTACT TRPA PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL TECHNICAL SPECIFICATIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
13. CONSTRUCTION LIMITS SHOWN ON THE PLANS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS. CONSTRUCTION LIMIT FENCING SHALL BE ERECTED ALONG THESE BOUNDARIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED.
14. THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. NO MATERIALS SHALL BE STOCKPILED AND NO CONSTRUCTION EQUIPMENT SHALL BE PARKED IN ANY AREA OUTSIDE THE CONSTRUCTION AND STAGING AREAS.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
16. ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF BANKS,THALWEGS ,GRADE CONTROLS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY NTCD AND THE ENGINEER OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. WASHOE COUNTY AND THE ENGINEER SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES.
17. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH THE PLANS APPROVED BY TRPA.
18. THE TRPA PERMIT AND THE FINAL CONSTRUCTION DRAWINGS BEARING THE TRPA STAMP OF APPROVAL SHALL BE PRESENT ON THE CONSTRUCTION SITE FROM CONSTRUCTION COMMENCEMENT TO FINAL TRPA SITE INSPECTION. THE PERMIT AND PLANS SHALL BE AVAILABLE FOR INSPECTION UPON REQUEST BY ANY TRPA EMPLOYEE. FAILURE TO PRESENT THE TRPA PERMIT AND APPROVED PLANS MAY RESULT IN THE ISSUANCE OF A CEASE AND DESIST ORDER BY TRPA.
19. ALL MATERIAL OBTAINED FROM ANY EXCAVATION WORK THAT IS NOT CONTAINED WITHIN FOUNDATIONS, RETAINING WALLS, OR BY OTHER METHODS APPROVED BY TRPA SHALL BE REMOVED FROM THE SUBJECT PARCEL AND DISPOSED OF AT A SITE APPROVED BY TRPA.
20. REPLANTING OF ALL EXPOSED SURFACES, IN ACCORDANCE WITH THE REVEGETATION PLANS SHALL BE ACCOMPLISHED WITHIN THE PHASING SEASON FOLLOWING CONSTRUCTION DISTURBANCE, UNLESS AN APPROVED CONSTRUCTION/INSPECTION SCHEDULE IS ESTABLISHED OTHERWISE.
21. ALL TOPSOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANGER OF VIOLATING THIS CONDITION EXISTS.
22. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY TRPA.
23. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREAS TO THE EXTENT POSSIBLE NO MATERIAL SHALL BE STORED IN ANY UNDISTURBED STREAM ENVIRONMENT ZONE OR WET AREAS.
24. ONLY EQUIPMENT OF A SIZE AND TYPE THAT, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL DO THE LEAST AMOUNT OF DAMAGE TO THE ENVIRONMENT SHALL BE USED AS STATED IN THE SPECIAL TECHNICAL SPECIFICATIONS.
25. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY THE NEVADA TAHOE CONSERVATION DISTRICT (NTCD), AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK. SEE SPECIAL TECHNICAL SPECIFICATIONS.
26. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR NTCD'S AND ENGINEERS REVIEW AND ACCEPTANCE.
29. THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.
30. NO TREES OR WETLAND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS, OR AS DIRECTLY SPECIFIED ON-SITE BY THE ENGINEER. ALL TREES CONFLICTING WITH GRADING SHALL BE TRIMMED. NO GRADING SHALL TAKE PLACE WITHIN THE DRIP LINE OF TREES NOT TO BE REMOVED UNLESS OTHERWISE APPROVED.
31. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, THE STATE HISTORIC PRESERVATION OFFICE AND WASHOE COUNTY SHALL BE NOTIFIED IMMEDIATELY.
32. PERMIT CONDITIONS MAY CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF OFF-SITE TURBIDITY FROM PROJECT OPERATIONS. TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE ENGINEER AND NTCD STAFF ON-SITE. TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED AMOUNT AND/OR DURATIONS WILL CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT AND THE PROBLEMS CONTROLLED. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THIS FAILURE TO ADEQUATELY CONTAIN SEDIMENT ON-SITE.
33. ALL CONSTRUCTION SITES SHALL BE WINTERIZED BY OCTOBER 15, UNLESS PROPER APPROVAL IS OBTAINED FROM TRPA ACCORDING TO 64.2.D OF THE TRPA CODE, TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER AS FOLLOWS: TEMPORARY EROSION CONTROLS SHALL BE INSTALLED; TEMPORARY VEGETATION PROTECTION FENCING SHALL BE INSTALLED; DISTURBED AREAS SHALL BE STABILIZED; ON-SITE CONSTRUCTION SLASH AND DEBRIS SHALL BE CLEANED UP AND REMOVED; WHERE FEASIBLE, MECHANICAL STABILIZATION AND DRAINAGE IMPROVEMENTS SHALL BE INSTALLED; AND SPOIL PILES SHALL BE REMOVED FROM THE SITE.
34. THE PROJECT SHALL BE SUBJECT TO INSPECTIONS BY ANY PERMITTING, REGULATORY, OR FUNDING AGENCY AT ANY TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE PROJECT AREA ACCESSIBLE FOR INSPECTION PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMITTING, REGULATORY, AND FUNDING AGENCIES.
35. ALL BARREN AREAS AND AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE TRPA HANDBOOK. OF BEST MANAGEMENT PRACTICES AND THE REVEGETATION PLAN AND THE SPECIAL TECHNICAL PROVISIONS. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT.
36. EXCAVATION EQUIPMENT SHALL BE LIMITED TO THE WORK AREA AS DEFINED IN THE PLANS TO MINIMIZE SITE DISTURBANCE.
37. THE DISCHARGE OF PETROLEUM PRODUCTS, CONSTRUCTION WASTE AND LITTER (INCLUDING SAWDUST), OR EARTHEN MATERIALS TO THE SURFACE WATERS OF THE LAKE TAHOE BASIN (INCLUDING ROSEWOOD CREEK) IS PROHIBITED. ALL SURPLUS CONSTRUCTION WASTE MATERIALS SHALL BE REMOVED FROM THE PROJECT AND DEPOSITED ONLY AT APPROVED POINTS OF DISPOSAL. DURING ANY CONSTRUCTION ACTIVITY, ALL VEHICLES SHALL DRIVE AT SPEEDS BELOW 15 MPH WHEN TRAVELING ON EXPOSED SURFACES.
38. DURING ANY CONSTRUCTION ACTIVITY, THE PERIOD OF TIME IN WHICH ANY PARTICULAR AREA REMAINS EXPOSED SHALL BE LIMITED TO THE MINIMUM EXTENT FEASIBLE.
39. ANY NORMAL CONSTRUCTION ACTIVITIES CREATING NOISE IN EXCEEDANCE OF THE TRPA NOISE STANDARDS SHALL BE CONSIDERED EXEMPT FROM STANDARDS PROVIDED ALL SUCH WORK IS CONDUCTED BETWEEN THE HOURS OF 8:00 A.M. AND 6:30 P.M.
40. THE PROJECT AREA IS UNDER THE JURISDICTION OF THE TAHOE REGIONAL PLANNING AGENCY, NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND WASHOE COUNTY. EACH OF THESE AGENCIES HAVE ISSUED A PERMIT FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF THOSE PERMITS.
41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AS SPECIFIED IN SPECIAL TECHNICAL SPECIFICATIONS OF THE CONSTRUCTION SPECIFICATIONS FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE A COPY OF THE APPROVED PLAN TO THE ENGINEER, TRPA, AND NDEP PRIOR TO ANY CONSTRUCTION OPERATION REQUIRING DEWATERING.
42. ALL CONSTRUCTION EQUIPMENT SHALL RECEIVE PERIODIC MAINTENANCE AS REQUIRED FOR EFFICIENT OPERATION TO REDUCE ENGINE EMISSIONS.
43. PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES, TEMPORARY SILT BARRIERS SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE AREA OF DISTURBANCE AND AS SHOWN ON THESE PLANS. THIS FENCE SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
44. CONSTRUCTION MATERIALS SHALL BE SECURED TO PREVENT THEM FROM ROLLING, WASHING, OR BLOWING OFF THE PROJECT SITE. REHABILITATION AND CLEAN-UP OF THE SITE FOLLOWING CONSTRUCTION MUST INCLUDE REMOVAL OF ALL CONSTRUCTION WASTE AND DEBRIS.
45. THE CONTRACTOR SHALL USE TARPAULINS OR OTHER EFFECTIVE COVERS FOR HAUL TRUCKS THAT TRAVEL ON PUBLIC STREETS.
46. THE CONTRACTOR SHALL SCHEDULE CLEARING AND EARTH MOVING ACTIVITIES DURING PERIODS OF LOW WIND SPEEDS AND RESTRICT THOSE CONSTRUCTION ACTIVITIES WHEN WIND SPEEDS ARE GREATER THAN 20 MPH AVERAGE DURING AN HOUR.
47. CONSTRUCTION EQUIPMENT OPERATORS SHALL TURN OFF EQUIPMENT WHEN NOT IN USE TO AVOID UNNECESSARY IDLING. AS A GENERAL RULE, CONSTRUCTION VEHICLE IDLING SHOULD BE KEPT BELOW TEN MINUTES.
48. BECAUSE OF THE NATURE OF THE PROJECT, CAREFUL GRADING IS MANDATORY. THE PLANS, SECTIONS, AND PROFILE SHOWN ON THE PLANS REPRESENT THE GENERAL SHAPE OF THE LAND, BUT THE INTENT IS THAT ALL SLOPES, GRADE BREAKS, ETC. SHALL BE CONTOUR GRADED TO NATURAL, FLOWING SHAPES THAT SMOOTHLY TRANSITION. AS PART OF THE SCOPE OF WORK, THE CONTRACTOR SHALL WORK UNDER THE DIRECTION OF THE ENGINEER TO CREATE A NATURAL-LOOKING, IRREGULAR SURFACE WITH SMALL HUMMOCKS AND DEPRESSIONS IN THE WETLAND RESTORATION AREA RESEMBLING THE TOPOGRAPHY OF A NATURAL WETLAND. THIS WORK MAY REQUIRE HAND RAKING IN SOME AREAS AFTER GRADING OPERATIONS WITH EQUIPMENT ARE COMPLETED, AS DIRECTED BY THE ENGINEER.
49. THE CONSTRUCTION AREA FOR THE PROJECT IS LIMITED. THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE TO LIMIT DISTURBANCE TO ADJACENT AREAS. THE ENGINEER AND THE CONTRACTOR WILL MARK THE LIMITS OF CONSTRUCTION PRIOR TO ANY WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONFINING ALL OF HIS CONSTRUCTION ACTIVITY TO WITHIN THESE LIMITS AND TO MAINTAIN THE BOUNDARY MARKERS.
50. ALL TOPSOIL SHALL BE SALVAGED AS DESCRIBED IN THE SPECIAL TECHNICAL SPECIFICATIONS.
51. SEZ INCLUDES ALL LAND CAPABILITY AREAS DESIGNATED 1B. TRPA HAS DELINEATED THESE BOUNDARIES AS SHOWN ON THE PLANS.
52. ANY ORGANIC LITTER OR DEBRIS SHALL BE REMOVED FROM THE TREATMENT AREA AND STOCKPILED FOR LATER REAPPLICATION.
53. PREPARED SEEDBEDS SHALL BE UNIFORMLY SEEDED UTILIZING HAND-OPERATED BROADCAST SEEDERS, OR APPROVED EQUAL, AS DIRECTED BY THE ENGINEER. NO MORE AREA SHALL BE SEEDED THAN CAN BE MULCHED IN THAT SAME DAY. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW THE SEED TO BECOME WIND-BORNE. IMMEDIATELY FOLLOWING SEED APPLICATION, THE SEEDED AREAS SHALL BE LIGHTLY HAND RAKED TO ASSURE SEED PLACEMENT AT A DEPTH OF 1/4 TO 1/2 INCH.
54. SEEDED AREAS SHALL BE MULCHED TO PREVENT SEED LOSS BY WIND ACTIVITY, AND TO PROVIDE FAVORABLE CONDITIONS FOR PLANT GROWTH. SEEDED AREAS SHALL NOT BE LEFT UNCOVERED MORE THAN 24 HOURS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
55. SALVAGED WILLOWS AND ALDERS WILL BE PLANTED IN RANDOM CLUSTERS TO CREATE A NATURAL APPEARANCE. ACTUAL PLANTING LOCATIONS WILL BE SITED IN THE FIELD AT THE TIME OF PLANTING BY THE ENGINEER.
56. PLANTING HOLES SHALL BE HAND DUG LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS WITH ENOUGH ROOM TO REPLACE SOIL EASILY. SOIL IN THE BOTTOMS AND ALONG THE SIDES OF THE PLANTING HOLES SHALL BE LOOSENED. EXCAVATED PLANTING HOLES SHALL BE PLANTED IMMEDIATELY TO AVOID DRYING OF SOILS.
57. PLANTS SHALL NOT BE ALLOWED TO DRY OUT BEFORE PLANTING. ROOTS SHALL NOT BE EXPOSED TO AIR EXCEPT WHILE ACTUALLY BEING PLACED IN THE PLANTING HOLE. PLANTS SHALL BE REMOVED FROM CONTAINERS AND SET VERTICALLY IN THE CENTERS OF THE HOLES SUCH THAT THE TOP OF THE ROOT MASS WILL BE APPROXIMATELY 2 INCHES BELOW THE EXISTING GRADE FOLLOWING BACKFILLING. SOIL SHALL BE REPLACED AND FIRMLY PACKED TO ELIMINATE AIR POCKETS. IMMEDIATELY FOLLOWING PLANTING, EACH PLANT SHALL BE THOROUGHLY WATERED SUCH THAT THE SOIL AROUND THE ROOTS WILL BE SATURATED FROM THE BOTTOM OF THE HOLE TO THE TOP OF THE GROUND.
58. IRRIGATION SHALL BE PROVIDED TO THE ENTIRE REVEGETATION AREA TO ESTABLISH THE SEEDING AND MAINTAIN THE CONTAINER PLANTINGS THROUGHOUT THE PROJECT AND REVEGETATION MAINTENANCE PERIOD.
59. WATER DELIVERY TO THE REVEGETATION AREA SHALL BE LOW IMPACT TO PREVENT WASHING OF SOILS AND MULCH MATERIAL. A REGULAR WATERING FREQUENCY SHALL BE SCHEDULED AND ADJUSTED AS NECESSARY SUCH THAT NEITHER FLOODING NOR DESICCATION OF THE REVEGETATION AREA OCCURS. EXTREME CARE SHALL BE TAKEN WHEN WATERING CONTAINER PLANTINGS NOT TO DISTURB SEEDINGS AND STREAMBANKS.

UTILITIES

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (877) 860--6020
ELECTRIC	NV ENERGY, (775) 782-2506
SEWER & WATER	INCLINE VILLAGE GENERAL IMPROVEMENTS DISTRICT (IVGID), 775-832-1267
TELEPHONE	ATT, (800) 288-2020
STORM DRAIN	WASHOE COUNTY DOT, (775) 832-1203
USA DIGS	(800) 227-2600

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ABBREVIATIONS

AC	ASPHALT CONCRETE	INST	INSTALL
AL	ALDER	IVGID	INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT
APN	ASSESSOR'S PARCEL NUMBER	JP	JEFFREY PINE
APPROX	APPROXIMATE	L	LEFT
AVG	AVERAGE	LP	LODGEPOLE PINE
BGN	BEGIN	LVC	LENGTH OF VERTICAL CURVE
BLDR	BOULDER	LWD	LARGE WOODY DEBRIS
BLVD	BOULEVARD	MIN	MINIMUM
BMP	BEST MANAGEMENT PRACTICE	MISC	MISCELLANEOUS
BVC	BEGIN VERTICAL CURVE	N	NORTH
CF	CUBIC FEET	NTS	NOT TO SCALE
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CL	CENTERLINE	P	PINE
CLF	CONSTRUCTION LIMIT FENCE	PCC	POINT OF COMPOUND CURVITURE
CONC	CONCRETE	PL	PROPERTY LINE
CONST	CONSTRUCT	PP	POWER/UTILITY POLE
CMP	CORRUGATED METAL PIPE	PRC	POINT OF REVERSE CURVITURE
CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
DBH	DIAMETER BREAST HEIGHT	REF	REFERENCE
DF	DOUGLAS FIR	RLC	ROCK LINED CHANNEL
DIAM OR Ø	DIAMETER	ROW	RIGHT OF WAY
DR	DRIVE	R	RIGHT
DS	DOWNSTREAM	S	SOUTH OR SLOPE
E	EAST	SD	STORM DRAIN
EA	EACH	SEZ	STREAM ENVIRONMENT ZONE
EC	EROSION CONTROL	SF	SQUARE FOOT
ECB	EROSION CONTROL BLANKET	SS	SANITARY SEWER
EG	EXISTING GRADE	ST	STREET, SEDIMENT TRAP, OR STUMP
ELEV	ELEVATION	STA	STATION
ELEC	ELECTRIC	SW	SOUTHWEST
EVC	END VERTICAL CURVE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
EX	EXISTING	TBR	TO BE REMOVED
F	FIR	TEMP	TEMPORARY
FF	FILTER FENCE	TG	THALWEG
FG	FINISHED GRADE	TOB	TOP OF BANK
FH	FIRE HYDRANT	TRANS	TRANSITION
FL	FLOWLINE	TRPA	TAHOE REGIONAL PLANNING AGENCY
G	GAS	TYP	TYPICAL
GB	GRADE BREAK	US	UPSTREAM
HORIZ	HORIZONTAL	VERT	VERTICAL
HDPE	HIGH DENSITY POLY ETHYLENE	W	WITH
I.E.	INVERT ELEVATION	WFB	WATER FILLED BERM
IN	INCH	WL	WILLOW
		W/	WITH
		W/O	WITHOUT

LEGEND

EXISTING		PROPOSED	
	MAJOR CONTOUR		MAJOR CONTOUR
	MINOR CONTOUR		MINOR CONTOUR
	PROPERTY LINE		GRADING DAYLIGHT LINE
	BUILDING OUTLINE		FINISHED GRADE (SECTION VIEW)
	MANHOLE	FF	TEMPORARY FILTER FENCE
S	SEWER MANHOLE	CLF	TEMPORARY CONSTRUCTION LIMIT FENCE
EX SS	EXISTING SEWER LINE		PROPOSED CONCRETE / ASPHALT REMOVAL
EX GAS	EXISTING GAS LINE		CUT
	RIVER ALIGNMENT		FILL
	SECONDARY RIVER ALIGNMENT		CLEARING AND GRUBBING (PHASE 1)
	EXISTING GRADE (SECTION VIEW)		CLEARING AND GRUBBING (PHASE 3)
	EDGE OF PAVEMENT		SURVEY CONTROL POINT
	SEZ BOUNDARY		3" - 8" GRAVEL / RIP RAP
	EXISTING CULVERT		EROSION CONTROL BLANKET
	WETLAND DELINEATION		CHANNEL GRADE CONTROL STRUCTURE
EX ELEC	OVER HEAD ELECTRICITY LINES		VALLEY WIDE GRADE CONTROL STRUCTURE
UG	UNDERGROUND CABLE	PR-X+XX	PROPOSED ALIGNMENT
	UTILITY BOX		BURIED PROTECTION
	TRAFFIC SIGNAL		ALDER OR WILLOW
	POST		CONIFER TREE
	POLE		CONIFER TREE REMOVAL
	SIGN	3 / D-3	DETAIL NUMBER
	NOXIOUS WEED (BULL THISTLE)		DETAIL SHEET
	NOXIOUS WEED (TEASLE)		

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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Exp. 12/31/13
CIVIL
No. 16993

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STATE OF NEVADA

Nevada Tahoe Conservation District

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
TITLE SHEET

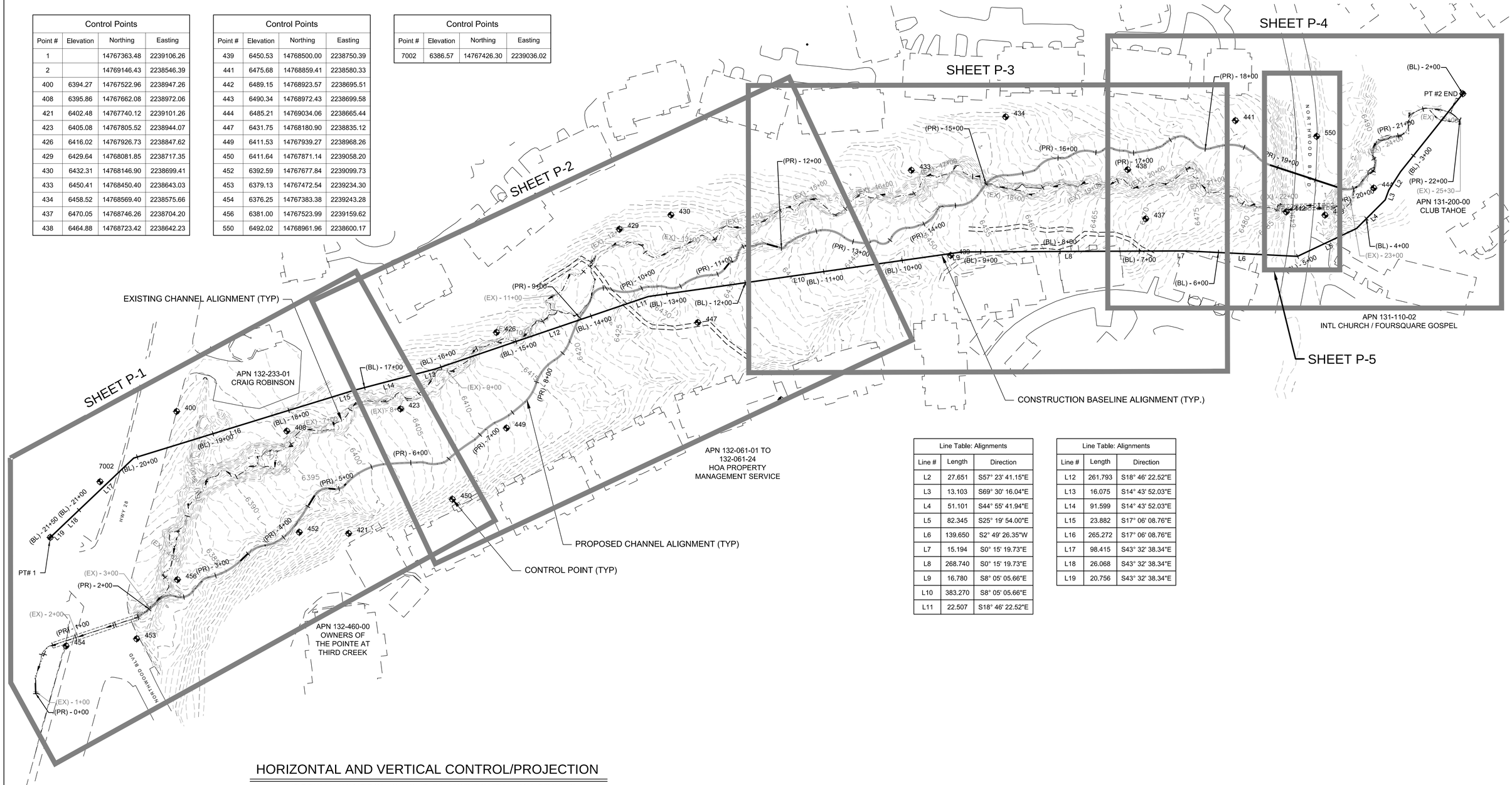
DATE
6/2012

Sheet ii
SHEET 2 OF 134

Control Points			
Point #	Elevation	Northing	Easting
1		14767363.48	2239106.26
2		14769146.43	2238546.39
400	6394.27	14767522.96	2238947.26
408	6395.86	14767662.08	2238972.06
421	6402.48	14767740.12	2239101.26
423	6405.08	14767805.52	2238944.07
426	6416.02	14767926.73	2238847.62
429	6429.64	14768081.85	2238717.35
430	6432.31	14768146.90	2238699.41
433	6450.41	14768450.40	2238643.03
434	6458.52	14768569.40	2238575.66
437	6470.05	14768746.26	2238704.20
438	6464.88	14768723.42	2238642.23

Control Points			
Point #	Elevation	Northing	Easting
439	6450.53	14768500.00	2238750.39
441	6475.68	14768859.41	2238580.33
442	6489.15	14768923.57	2238695.51
443	6490.34	14768972.43	2238699.58
444	6485.21	14769034.06	2238665.44
447	6431.75	14768180.90	2238835.12
449	6411.53	14767939.27	2238968.26
450	6411.64	14767871.14	2239058.20
452	6392.59	14767677.84	2239099.73
453	6379.13	14767472.54	2239234.30
454	6376.25	14767383.38	2239243.28
456	6381.00	14767523.99	2239159.62
550	6492.02	14768961.96	2238600.17

Control Points			
Point #	Elevation	Northing	Easting
7002	6386.57	14767426.30	2239036.02



Line Table: Alignments		
Line #	Length	Direction
L2	27.651	S57° 23' 41.15"E
L3	13.103	S69° 30' 16.04"E
L4	51.101	S44° 55' 41.94"E
L5	82.345	S25° 19' 54.00"E
L6	139.650	S2° 49' 26.35"W
L7	15.194	S0° 15' 19.73"E
L8	268.740	S0° 15' 19.73"E
L9	16.780	S8° 05' 05.66"E
L10	383.270	S8° 05' 05.66"E
L11	22.507	S18° 46' 22.52"E

Line Table: Alignments		
Line #	Length	Direction
L12	261.793	S18° 46' 22.52"E
L13	16.075	S14° 43' 52.03"E
L14	91.599	S14° 43' 52.03"E
L15	23.882	S17° 06' 08.76"E
L16	265.272	S17° 06' 08.76"E
L17	98.415	S43° 32' 38.34"E
L18	26.068	S43° 32' 38.34"E
L19	20.756	S43° 32' 38.34"E

HORIZONTAL AND VERTICAL CONTROL/PROJECTION

VERTICAL CONTROL IS NGVD 29; HORIZONTAL CONTROL IS
NEVADA STATE PLANE WEST, NAD 83 (FEET).

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
60 30 0 60

PROFESSIONAL ENGINEER-STATE OF NEVADA
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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

INDEX & SURVEY CONTROL SHEET

DATE
6/2012

SHEET iii

NOTES:

1. STAGING AND STORAGE AREAS SHOWN ON THIS SHEET ARE REPRESENTATIVE AREAS. AREAS SHALL BE STAKED BY THE CONTRACTOR FOR ACCEPTANCE BY ENGINEER PRIOR TO ANY WORK BEING PERFORMED IN EACH PHASE OF WORK.
2. ALL STAGING AND STORAGE AREAS SHALL BE IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATIONS, STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE PROJECT PERMITS AND THESE PROJECT PLANS.

(1/S-1) PHASE 3
STAGING AND STORAGE AREA, 3,300 SF±
(265 LF± CONSTRUCTION LIMIT FENCE)
(215 LF± FILTER FENCE)

(1/S-1) PHASE 1
(CULVERT WORK ONLY)
STAGING AND STORAGE AREA, 4,300 SF±
(250 LF± CONSTRUCTION LIMIT FENCE)
(210 LF± FILTER FENCE)

(1/S-1) PHASE 1
STAGING AND STORAGE AREA, 3,100 SF±
(345 LF± CONSTRUCTION LIMIT FENCE)
(320 LF± FILTER FENCE)
SEE SPECIAL TECHNICAL SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR LIMITS, RESTRICTIONS AND REQUIREMENTS OF STORAGE AREAS ADJACENT TO ROADWAYS.

(1/S-1) PHASE 1 & 3
STAGING AND STORAGE AREA, 2,150 SF±
(245 LF± CONSTRUCTION LIMIT FENCE)
(200 LF± FILTER FENCE)
SEE SPECIAL TECHNICAL SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR LIMITS, RESTRICTIONS AND REQUIREMENTS OF STORAGE AREAS ADJACENT TO ROADWAYS.

(1/S-1) PHASE 1,2 & 3
THE ONLY STORAGE AREA AVAILABLE FOR PHASE 2
STAGING AND STORAGE AREA, 1,400 SF±
(200 LF± CONSTRUCTION LIMIT FENCE)
(175 LF± FILTER FENCE)

CONTRACTOR SHALL NOT STORE, PARK OR STAND ANYTHING IN PRIVATE DRIVEWAYS, PARKING AREAS OR ROADS. (TYP.)

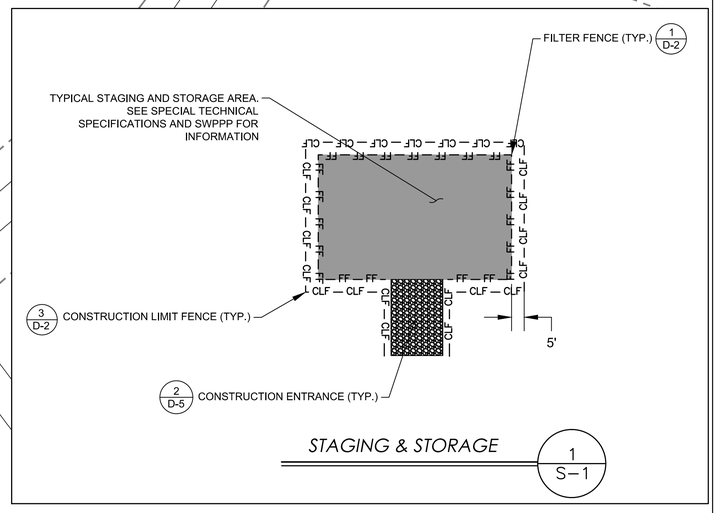
APN 132-233-01
CRAIG ROBINSON

APN 132-460-00
OWNERS OF
THE POINTE AT
THIRD CREEK

APN 132-061-01 TO
132-061-24
HOA PROPERTY
MANAGEMENT SERVICE

APN 131-200-00
CLUB TAHOE

APN 131-110-02
INTL CHURCH / FOURSQUARE GOSPEL



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GRAPHIC SCALE
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60 30 0 60

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
STAGING AND STORAGE SHEET

DATE
6/2012

Sheet S-1
SHEET 4 OF 134

CONIFER TREE REMOVAL TABLE (THIS SHEET ONLY TYP.)	
TREE D.B.H.	NO. OF TREES
6" - 12"	3
13" - 24"	2
25" - 36"	1
> 36"	0

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING 1	20,755 ±SF
CLEARING & GRUBBING 3	14,650 ±SF
PHASE 1 CUT	1,242 ±CY
PHASE 1 FILL	240 ±CY
PHASE 3 CUT	6 ±CY
PHASE 3 FILL	1,930 ±CY

LEGEND

PROPOSED PHASE 1 DISTURBANCE AREA

PROPOSED PHASE 3 DISTURBANCE AREA

WILLOW / ALDER RELOCATION WITHIN 150 ±LF OF EXISTING LOCATION AS DIRECTED BY ENGINEER (REVEGETATION TYPE D). SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.)
110± PHASE 1,
58± PHASE 3.
ANY WILLOW/ALDER IN EXCESS OF THIS QUANTITY ON THIS SHEET SHALL BE REMOVED OF AND DISPOSED OF. ALL COSTS WILL BE COVERED UNDER CLEARING AND GRUBBING REGARDLESS OF SIZE.

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-2. (73 ±LF PHASE 1, 53 ±LF PHASE 3)

PROPOSED NOXIOUS WEED TREATMENT LOCATION. SEE SPECIAL TECHNICAL SPECIFICATIONS 135 ±SF (PHASE 1)

CONSTRUCT PERMANENT BURIED PROTECTION 20 ±LF (PHASE 3)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-1. (51 ±LF PHASE 1, 54 ±LF PHASE 3)

DOWNSTREAM TIE-IN CONSTRUCTION. SEE SHEET TI-1 FOR IMPROVEMENTS DOWNSTREAM OF STATION (PR) 2+50. (PHASE 3)

PROPOSED NOXIOUS WEED TREATMENT LOCATION. SEE SPECIAL TECHNICAL SPECIFICATIONS 135 ±SF (PHASE 1)

SEE EC SHEETS (SHEETS EC-1a THROUGH EC-2d) AND SPECIAL TECHNICAL SPECIFICATIONS FOR LIMITS OF WORK IN EACH PHASE OF CONSTRUCTION.

LAND CAPABILITY BOUNDARIES OUTSIDE OF THE SEZ ARE NOT SHOWN AT THIS TIME.

APN 132-233-01
CRAIG ROBINSON

PROPOSED NOXIOUS WEED TREATMENT LOCATION. SEE SPECIAL TECHNICAL SPECIFICATIONS
270 ± SF
TOTAL (PHASE 1)

EXISTING SECONDARY CHANNEL ALIGNMENT (TYP.)

EXISTING CHANNEL ALIGNMENT (TYP.)

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

BACKFILL EXISTING CHANNEL. SEE CROSS-SECTIONS, SPECIAL TECHNICAL SPECIFICATIONS, AND DETAIL FOR INFORMATION. (PHASE 3)
SEE TABLE, THIS SHEET FOR QUANTITIES.
(2 / D-4)

PHASE 3 WORK AREA

TREE REMOVAL SEE TABLE ON THIS SHEET AND SPECIAL TECHNICAL SPECIFICATIONS (TYP.)

PROPOSED VALLEY WIDE GRADING (SEE SHEETS XS-1 THROUGH XS-34). SEE TABLE, THIS SHEET FOR QUANTITIES.

(1 / D-5) PROPOSED CHANNEL GRADE CONTROL STRUCTURES (TYP.) (6 THIS SHEET, 288 ±LF PHASE 1) SEE DETAIL FOR CONSTRUCTION DIMENSIONS (PHASE 1)

CONTROL POINT SEE SHEET iii (TYP.)

PHASE 1 WORK AREA

TRPA SEZ BOUNDARY (VERIFIED)

APN 132-460-00
OWNERS OF THE POINTE AT THIRD CREEK

PROPOSED CLEARING, GRUBBING, AND GRADING LIMIT. SEE TABLE, THIS SHEET FOR QUANTITIES.

CONSTRUCTION OF 420 ±LF PROPOSED CHANNEL ALIGNMENT. SEE PROFILE FOR CHANNEL TYPES AND DETAILS (TYP.) (PHASE 1)
(1 / D-3) (2 / D-3) (3 / D-3) (1 / D-4)

MATCHLINE STA: PR-6+00 (SEE SHEET P-2)

HWY 28

NORTHWOOD BLVD

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATIONS AND REVEGETATION SHEETS (R-1 THRU R-4 AND REVEGETAION TREATMENTS IDENTIFIED ON SHEETS TI-1 THRU TI-19) FOR THE PROJECT.
2. PROPOSED CHANNEL, FLOODPLAIN AND BACKFILL OF EXISTING CHANNEL TO BE CONSTRUCTED AS SHOWN ON CROSS-SECTIONS (SHEETS XS-1 THROUGH XS-34). SEE SPECIAL TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION.
3. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
4. ALL MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIAL TECHNICAL SPECIFICATIONS.
5. SEE SHEETS EC-1a THRU EC-1d FOR TEMPORARY BURIED PROTECTION LOCATIONS.

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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20 10 0 20

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

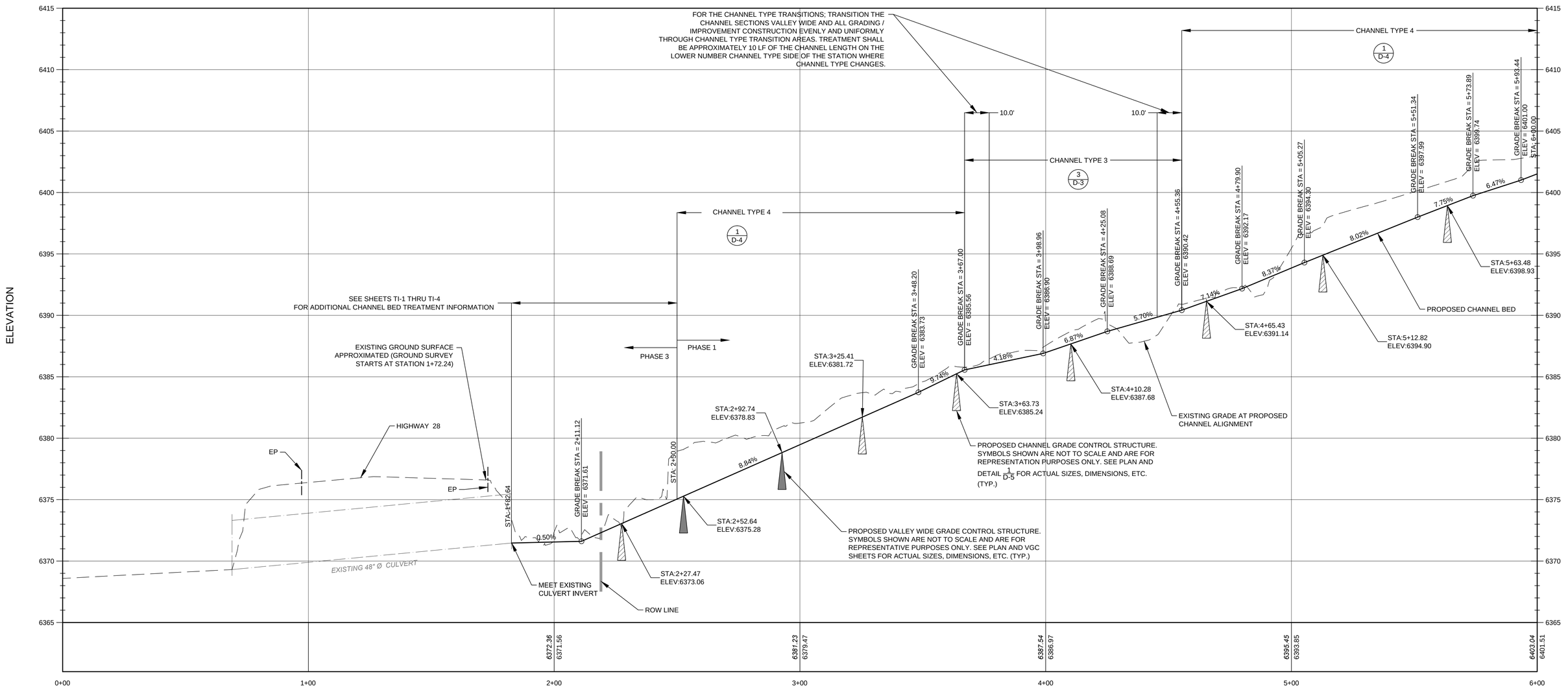
PLAN VIEW

STATION: PR-0+00 TO PR-6+00

DATE
6/2012

SHEET
P-1

SHEET 5 OF 134



NOTES:

PROFILE REFERENCES PROPOSED CHANNEL ALIGNMENT.

CHANNEL AND VALLEY WIDE GRADE CONTROL STRUCTURES SYMBOLS ARE NOT TO SCALE AND ARE FOR REPRESENTATIVE PURPOSES ONLY.

SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.

FOR FINISHED GRADE SURFACE INFORMATION SEE CROSS SECTIONS FOR CONSTRUCTION OF CHANNEL AND FLOODPLAIN. PROFILE VIEW SHOWN ON THIS SHEET IS FOR REPRESENTATIVE PURPOSES ONLY. CHANNEL AND FLOODPLAIN SHALL BE SMOOTHLY GRADED BETWEEN CROSS SECTION TRANSITIONS.

ALL STATIONING IS BASED ON THE PROPOSED ALIGNMENT STATIONING. SEE CROSS SECTIONS FOR STATION EQUATIONS IN RELATION TO THE BASELINE ALIGNMENT.

LEGEND

PROPOSED CHANNEL GRADE CONTROL STRUCTURE (1 D-5)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURES (SEE SHEETS VGC-1 THRU VGC-12).

REVISIONS

MARK	DATE	BY	

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

PROFILE

STATION: PR-0+00 TO PR-6+00

DATE 6/2012

SHEET PR-1

SHEET 6 OF 134

CONIFER TREE REMOVAL TABLE (THIS SHEET ONLY TYP.)	
TREE D.B.H.	NO. OF TREES
6" - 12"	3
13" - 24"	13
25" - 36"	4
> 36"	0

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING 1	26,975 ±SF
CLEARING & GRUBBING 3	17,230 ±SF
PHASE 1 CUT	986 ±CY
PHASE 1 FILL	23 ±CY
PHASE 3 FILL	1,222 ±CY

LEGEND

PROPOSED PHASE 1 DISTURBANCE AREA

PROPOSED PHASE 3 DISTURBANCE AREA

PROPOSED CLEARING, GRUBBING AND GRADING LIMIT. SEE TABLE, THIS SHEET FOR QUANTITIES.

WILLOW / ALDER RELOCATION WITHIN 150 ±LF OF EXISTING LOCATION AS DIRECTED BY ENGINEER (REVEGETATION TYPE D). SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.). 89± PHASE 1, 21± PHASE 3
ANY WILLOW/ALDER IN EXCESS OF THIS QUANTITY ON THIS SHEET SHALL BE REMOVED OF AND DISPOSED OF. ALL COSTS WILL BE COVERED UNDER CLEARING AND GRUBBING REGARDLESS OF SIZE.

2 D-4 CONSTRUCT PERMANENT BURIED PROTECTION 30 ±LF (PHASE 3)

EXISTING SECONDARY CHANNEL ALIGNMENT (TYP.)

EXISTING FOOT PATH. SEE TEMPORARY EROSION CONTROL SHEET EC-1b FOR ADDITIONAL INFORMATION

PHASE 3 WORK AREA

BACKFILL EXISTING CHANNEL. SEE CROSS-SECTIONS, SPECIAL TECHNICAL SPECIFICATIONS, AND DETAIL FOR INFORMATION. (PHASE 3) SEE TABLE, THIS SHEET FOR QUANTITIES.

EXISTING CHANNEL ALIGNMENT (TYP.)

3 D-4 CONSTRUCT PERMANENT BURIED PROTECTION (26 ±LF) (PHASE 1)

1 D-5 PROPOSED CHANNEL GRADE CONTROL STRUCTURES (TYP.) (5 THIS SHEET, 237 ±LF, PHASE 1) SEE DETAIL FOR CONSTRUCTION DIMENSIONS (PHASE 1)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-3. (102 ±LF PHASE 1, 72 ±LF PHASE 3)

2 D-4 CONSTRUCT PERMANENT BURIED PROTECTION (25 ±LF) (PHASE 3)

PHASE 3 WORK AREA

(BL) - 17+00 (BL) - 16+00 EX-8+00 EX-9+00 EX-10+00 EX-11+00 EX-12+00 EX-13+00 EX-14+00 (BL) - 15+00 (PR) - 9+00 (PR) - 10+00 (BL) - 14+00 (BL) - 13+00 (PR) - 11+00 (PR) - 12+00 (BL) - 12+00 (PR) - 8+00 (PR) - 7+00

423 426 429 430 447 449

6400 6405 6410 6415 6420 6425 6430 6435

PHASE 1 WORK AREA

MATCHLINE STA: PR-6+00 (SEE SHEET P-1)

MATCHLINE STA: PR-12+00 (SEE SHEET P-3)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-5 (54 ±LF PHASE 1, 46 ±LF PHASE 3)

TREE REMOVAL SEE TABLE, THIS SHEET AND SPECIAL TECHNICAL SPECIFICATIONS (TYP.)

CONTROL POINT SEE SHEET iii (TYP.)

SEE SHEET EC-1a THROUGH EC-2d AND THE SPECIAL TECHNICAL SPECIFICATIONS FOR THE LIMITS OF WORK IN EACH CONSTRUCTION PHASE.

PROPOSED VALLEY WIDE GRADING. SEE TABLE, THIS SHEET FOR QUANTITIES.

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-4. (98 ±LF PHASE 1, 65 ±LF PHASE 3)

RESIDENTIAL BMP LOCATION (NOT IN CONTRACT - CONTRACTOR SHALL COORDINATE ALL WORK EFFORTS WITH PROPERTY MANAGERS FOR WORK EFFORTS: THIRD CREEK HOA) - SEE SPECIAL TECHNICAL SPECIFICATIONS

RESIDENTIAL LANDSCAPING PROPOSED AREA (NOT IN CONTRACT - CONTRACTOR SHALL COORDINATE ALL WORK EFFORTS WITH PROPERTY MANAGERS FOR WORK EFFORTS: THIRD CREEK HOA) - SEE SPECIAL TECHNICAL SPECIFICATIONS.

APN 132-061-01 TO 132-061-24 HOA PROPERTY MANAGEMENT SERVICE

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-6 (50 ±LF PHASE 1, 52 ±LF PHASE 3)

1 D-3 2 D-3 3 D-3 1 D-4 CONSTRUCTION OF 600 ±LF PROPOSED CHANNEL ALIGNMENT. SEE PROFILE FOR CHANNEL TYPES AND DETAILS (TYP.) (PHASE 1)

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

TRPA SEZ BOUNDARY (VERIFIED)

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATIONS AND REVEGETATION SHEETS (R-1 THRU R-4 AND REVEGETAION TREATMENTS IDENTIFIED ON SHEETS TI-1 THRU TI-19) FOR THE PROJECT.
2. PROPOSED CHANNEL, FLOODPLAIN AND BACKFILL OF EXISTING CHANNEL TO BE CONSTRUCTED AS SHOWN ON CROSS-SECTIONS (SHEETS XS-1 THROUGH XS-34). SEE SPECIAL TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION.
3. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
4. ALL MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIAL TECHNICAL SPECIFICATIONS.
5. SEE SHEETS EC-1a THRU EC-1d FOR TEMPORARY BURIED PROTECTION LOCATIONS.

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA STEPHEN H. PECK Exp.12/31/13 CIVIL No. 16993

SEAL OF WASHOE COUNTY STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
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(775) 775-9069 Main

Valley & Mountain Consulting

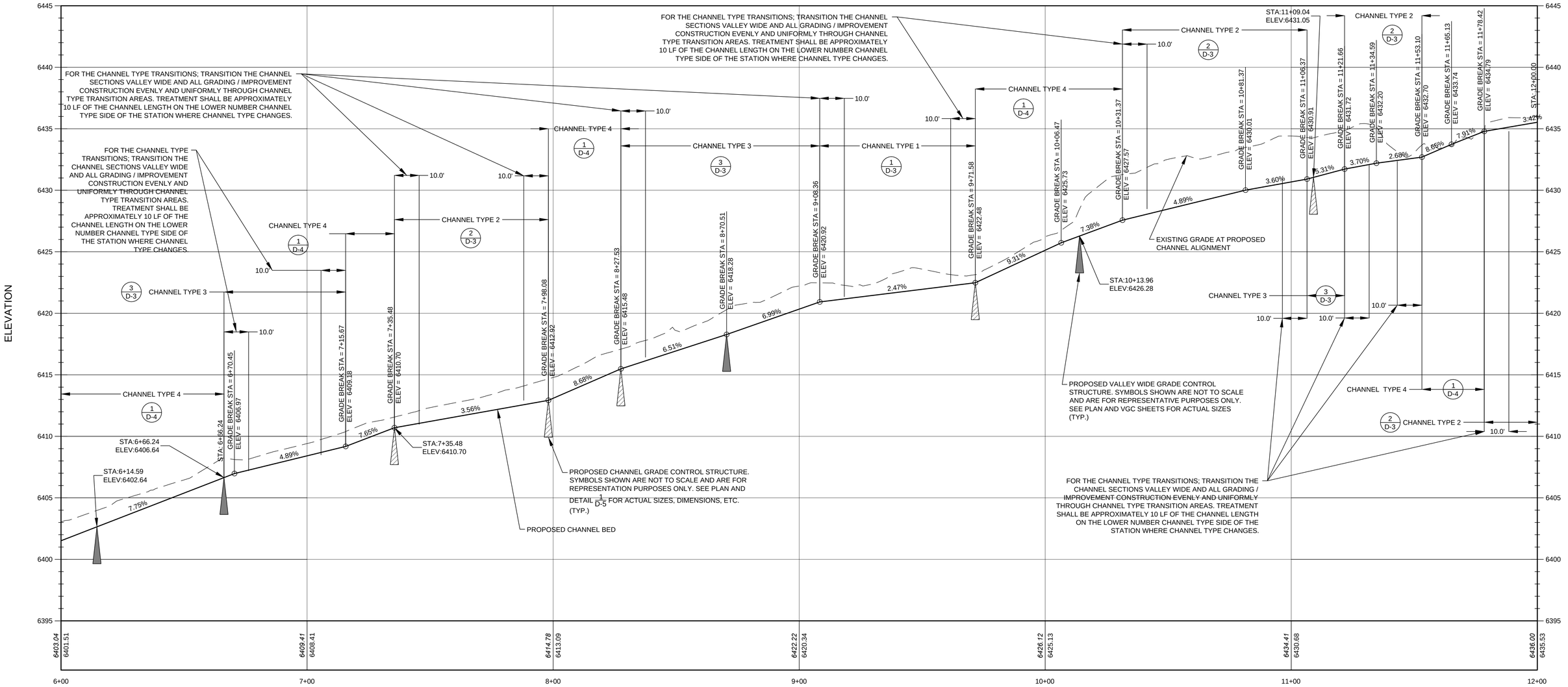
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

PLAN VIEW

STATION: PR-6+00 TO PR-12+00

DATE 6/2012

SHEET P-2



PROPOSED ALIGNMENT STATIONING

NOTES:

PROFILE REFERENCES PROPOSED CHANNEL ALIGNMENT.

CHANNEL AND VALLEY WIDE GRADE CONTROL STRUCTURES SYMBOLS ARE NOT TO SCALE AND ARE FOR REPRESENTATIVE PURPOSES ONLY.

SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.

FOR FINISHED GRADE SURFACE INFORMATION SEE CROSS SECTIONS FOR CONSTRUCTION OF CHANNEL AND FLOODPLAIN. PROFILE VIEW SHOWN ON THIS SHEET IS FOR REPRESENTATIVE PURPOSES ONLY. CHANNEL AND FLOODPLAIN SHALL BE SMOOTHLY GRADED BETWEEN CROSS SECTION TRANSITIONS.

ALL STATIONING IS BASED ON THE PROPOSED ALIGNMENT STATIONING. SEE CROSS SECTIONS FOR STATION EQUATIONS IN RELATION TO THE BASELINE ALIGNMENT.

LEGEND

PROPOSED CHANNEL GRADE CONTROL STRUCTURE (1/D-5)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURES (SEE SHEETS VGC-1 THRU VGC-12).

REVISIONS

MARK	DATE	BY	

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

PROFILE

STATION: PR-6+00 TO PR-12+00

DATE
6/2012

SHEET PR-2

SHEET 8 OF 134

LAND CAPABILITY BOUNDARIES OUTSIDE OF THE SEZ ARE NOT SHOWN AT THIS TIME.

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-7 (59 ±LF PHASE 1, 51 ±LF PHASE 3)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-8 (58 ±LF PHASE 1, 60 ±LF PHASE 3)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-9 (59 ±LF PHASE 1, 58 ±LF PHASE 3 TO BE CONSTRUCTED DURING TIE-IN CONSTRUCTION)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-10 (52 ±LF PHASE 1, 53 ±LF PHASE 3)

EXISTING / PROPOSED CHANNEL CROSSING SEE SHEET TI-5 THRU TI-13 FOR IMPROVEMENTS IN THIS AREA. STATION: 14+83.25 THRU 15+21.74 (PHASE 3)

BACKFILL EXISTING CHANNEL. SEE CROSS-SECTIONS, SPECIAL TECHNICAL SPECIFICATIONS, AND DETAIL FOR INFORMATION (PHASE 3). SEE TABLE, THIS SHEET FOR QUANTITIES. (2 / D-4)

PHASE 3 WORK AREA

TREE REMOVAL SEE TABLE, THIS SHEET, AND SPECIAL TECHNICAL SPECIFICATIONS (TYP.)

PHASE 1 WORK AREA

WILLOW / ALDER RELOCATION WITHIN 150 ±LF OF EXISTING LOCATION AS DIRECTED BY ENGINEER (REVEGETATION TYPE D). SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.). (32± PHASE 1, 15± PHASE 3).ANY WILLOW/ALDER IN EXCESS OF THIS QUANTITY ON THIS SHEET SHALL BE REMOVED OF AND DISPOSED OF. ALL COSTS WILL BE COVERED UNDER CLEARING AND GRUBBING REGARDLESS OF SIZE.

SEE SHEETS EC-1a THROUGH EC-2d AND SPECIAL TECHNICAL SPECIFICATIONS FOR THE LIMITS OF WORK IN EACH CONSTRUCTION PHASE.

MATCHLINE STA: PR-12+00 (SEE SHEET P-2)

MATCHLINE STA: PR-18+00 (SEE SHEET P-4)

(PR) - 10+00 (PR) - 11+00 (PR) - 12+00 (PR) - 13+00 (PR) - 14+00 (PR) - 15+00 (PR) - 16+00 (PR) - 17+00 (PR) - 18+00

(BL) - 6+00 (BL) - 7+00 (BL) - 8+00 (BL) - 9+00 (BL) - 10+00 (BL) - 11+00

(RR) - 15+00

EX-15+00 EX-16+00 EX-17+00 EX-18+00 EX-19+00 EX-20+00

2+00 4+00 12+00

433 434 437 438 439 441

6440 6445 6450 6455 6460 6465 6470 6475 6480

MATCHLINES (TYP.) SEE TIE IN SHEETS TI-5 THRU TI-13 FOR IMPROVEMENTS IN THIS AREA (STA: 14+83.11 THRU 15+21.74)

EXISTING CHANNEL ALIGNMENT (TYP.)

EXISTING SECONDARY CHANNEL ALIGNMENT (TYP.)

APN 132-061-01 TO 132-061-24 HOA PROPERTY MANAGEMENT SERVICE

TRPA SEZ VERIFIED BOUNDARY

CONTROL POINT SEE SHEET iii (TYP.)

PROPOSED BURIED PERMANENT PROTECTION 25 ±LF (PHASE 3) (3 / D-4)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-11 (51 ±LF PHASE 1, 58 ±LF PHASE 3)

PHASE 3 WORK AREA

RESIDENTIAL LANDSCAPING PROPOSED AREA (NOT IN CONTRACT - CONTRACTOR SHALL COORDINATE ALL WORK EFFORTS WITH PROPERTY MANAGERS FOR WORK EFFORTS: THIRD CREEK HOA) - SEE SPECIAL TECHNICAL SPECIFICATIONS.

PROPOSED CHANNEL GRADE CONTROL STRUCTURE (4 THIS SHEET, 164 ±LF PHASE 1, 28 ±LF PHASE 3). SEE DETAIL FOR CONSTRUCTION DIMENSIONS. (1 / D-5)

CONSTRUCTION OF 562 ±LF PROPOSED CHANNEL ALIGNMENT. SEE PROFILE FOR CHANNEL TYPES AND DETAILS (PHASE 1) (1 / D-3) (2 / D-3) (3 / D-3) (1 / D-4)

PROPOSED CLEARING, GRUBBING, AND GRADING LIMIT. SEE TABLE, THIS SHEET FOR QUANTITIES.

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

PROPOSED VALLEY WIDE GRADING. SEE TABLE, THIS SHEET FOR QUANTITIES.

LEGEND

PROPOSED PHASE 1 DISTURBANCE AREA

PROPOSED PHASE 3 DISTURBANCE AREA

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATIONS AND REVEGETATION SHEETS (R-1 THRU R-4 AND REVEGETAION TREATMENTS IDENTIFIED ON SHEETS TI-1 THRU TI-19) FOR THE PROJECT.
2. PROPOSED CHANNEL, FLOODPLAIN AND BACKFILL OF EXISTING CHANNEL TO BE CONSTRUCTED AS SHOWN ON CROSS-SECTIONS (SHEETS XS-1 THROUGH XS-34). SEE SPECIAL TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION.
3. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
4. ALL MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIAL TECHNICAL SPECIFICATIONS.
5. SEE SHEETS EC-1a THRU EC-1d FOR TEMPORARY BURIED PROTECTION LOCATIONS.

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)

CLEARING & GRUBBING 1	22,975 ±SF
CLEARING & GRUBBING 3	16,175 ±SF
PHASE 1 CUT	706 ±CY
PHASE 1 FILL	69 ±CY
PHASE 3 FILL	2,584 ±CY

CONIFER TREE REMOVAL TABLE (THIS SHEET ONLY TYP.)

TREE D.B.H.	***NO. OF TREES***
6" - 12"	6
13" - 24"	1
25" - 36"	3
> 36"	0

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

PLAN VIEW

STATION: PR-12+00 TO PR-18+00

DATE 6/2012

SHEET P-3

SHEET 9 OF 134

NOTES:

PROFILE REFERENCES PROPOSED CHANNEL ALIGNMENT.

CHANNEL AND VALLEY WIDE GRADE CONTROL STRUCTURES SYMBOLS ARE NOT TO SCALE AND ARE FOR REPRESENTATIVE PURPOSES ONLY.

SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.

FOR FINISHED GRADE SURFACE INFORMATION SEE CROSS SECTIONS FOR CONSTRUCTION OF CHANNEL AND FLOODPLAIN. PROFILE VIEW SHOWN ON THIS SHEET IS FOR REPRESENTATIVE PURPOSES ONLY. CHANNEL AND FLOODPLAIN SHALL BE SMOOTHLY GRADED BETWEEN CROSS SECTION TRANSITIONS.

ALL STATIONING IS BASED ON THE PROPOSED ALIGNMENT STATIONING. SEE CROSS SECTIONS FOR STATION EQUATIONS IN RELATION TO THE BASELINE ALIGNMENT.

ELEVATION

6490 6485 6480 6475 6470 6465 6460 6455 6450 6445 6440 6435 6430

FOR THE CHANNEL TYPE TRANSITIONS; TRANSITION THE CHANNEL SECTIONS VALLEY WIDE AND ALL GRADING / IMPROVEMENT CONSTRUCTION EVENLY AND UNIFORMLY THROUGH CHANNEL TYPE TRANSITION AREAS. TREATMENT SHALL BE APPROXIMATELY 10 LF OF THE CHANNEL LENGTH ON THE LOWER NUMBER CHANNEL TYPE SIDE OF THE STATION WHERE CHANNEL TYPE CHANGES.

FOR THE CHANNEL TYPE TRANSITIONS; TRANSITION THE CHANNEL SECTIONS VALLEY WIDE AND ALL GRADING / IMPROVEMENT CONSTRUCTION EVENLY AND UNIFORMLY THROUGH CHANNEL TYPE TRANSITION AREAS. TREATMENT SHALL BE APPROXIMATELY 10 LF OF THE CHANNEL LENGTH ON THE LOWER NUMBER CHANNEL TYPE SIDE OF THE STATION WHERE CHANNEL TYPE CHANGES.

10.0' CHANNEL TYPE 2 (2/D-3) 10.0' CHANNEL TYPE 4 (1/D-4) 10.0' CHANNEL TYPE 3 (3/D-3)

GRADE BREAK STA = 12+18.21 ELEV = 6436.15
GRADE BREAK STA = 12+51.51 ELEV = 6440.89
GRADE BREAK STA = 12+94.48 ELEV = 6442.65
GRADE BREAK STA = 13+22.20 ELEV = 6443.86
GRADE BREAK STA = 13+58.53 ELEV = 6445.23
GRADE BREAK STA = 13+83.51 ELEV = 6445.76
GRADE BREAK STA = 14+15.17 ELEV = 6447.41
GRADE BREAK STA = 14+49.09 ELEV = 6450.26
GRADE BREAK STA = 14+58.86 ELEV = 6451.23
GRADE BREAK STA = 14+83.11 ELEV = 6452.63
GRADE BREAK STA = 15+08.07 ELEV = 6453.66
GRADE BREAK STA = 15+48.51 ELEV = 6455.96
GRADE BREAK STA = 15+57.93 ELEV = 6456.37
GRADE BREAK STA = 15+82.23 ELEV = 6456.95
GRADE BREAK STA = 16+31.60 ELEV = 6459.64
GRADE BREAK STA = 16+50.00 ELEV = 6460.90
GRADE BREAK STA = 16+74.02 ELEV = 6462.35
GRADE BREAK STA = 17+20.32 ELEV = 6466.06
GRADE BREAK STA = 17+56.06 ELEV = 6468.78
GRADE BREAK STA = 17+80.98 ELEV = 6469.80

STA:12+49.43 ELEV:6439.73
STA:13+35.94 ELEV:6444.38
STA:14+58.86 ELEV:6451.23
STA:17+06.58 ELEV:6464.96
STA:17+48.29 ELEV:6468.18

3.42% 11.48% 7.05% 3.20% 3.78% 2.12% 5.21% 8.41% 9.94% 5.74% 4.16% 5.68% 4.35% 2.40% 5.44% 6.89% 6.03% 8.00% 7.61% 4.12% 4.96%

SEE SHEETS TI-5 THRU TI-13 FOR ADDITIONAL CHANNEL INFORMATION (PHASE 3)

PHASE 1 PHASE 3

EXISTING GRADE AT PROPOSED CHANNEL ALIGNMENT

PROPOSED CHANNEL BED

PROPOSED CHANNEL GRADE CONTROL STRUCTURE. SYMBOLS SHOWN ARE NOT TO SCALE AND ARE FOR REPRESENTATION PURPOSES ONLY. SEE PLAN AND DETAIL 1/D-5 FOR ACTUAL SIZES, DIMENSIONS, ETC. (TYP.)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SYMBOLS SHOWN ARE NOT TO SCALE AND ARE FOR REPRESENTATIVE PURPOSES ONLY. SEE PLAN AND VGC SHEETS FOR ACTUAL SIZES, DIMENSIONS, ETC. (TYP.)

6436.00	6444.47	6447.81	6448.35	6459.94	6465.59	6471.96
6435.53	6443.15	6446.62	6453.33	6457.92	6464.43	6470.75

12+00 13+00 14+00 15+00 16+00 17+00 18+00

PROPOSED ALIGNMENT STATIONING

LEGEND

- PROPOSED CHANNEL GRADE CONTROL STRUCTURE (1/D-5)
- PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURES (SEE SHEETS VGC-1 THRU VGC-12).

REVISIONS			
MARK	DATE	BY	

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

PROFILE

STATION: PR-12+00 TO PR-18+00

DATE 6/2012

SHEET PR-3

SHEET 10 OF 134

PROPOSED CULVERT OUTFALL TREATMENT AREA. SEE DETAIL 1/D-14 & 1/D-15 (PHASE 1)

1 D-5 PROPOSED CHANNEL GRADE CONTROL STRUCTURE (1 THIS SHEET, 45 ±LF). SEE DETAIL FOR CONSTRUCTION DIMENSIONS. (PHASE 1)

TRPA SEZ BOUNDARY (VERIFIED)

CONTROL POINT, SEE SHEET iii (TYP.)

1 D-3 | 2 D-3 | 3 D-3 | 1 D-4 CONSTRUCTION OF 106 ±LF PROPOSED CHANNEL ALIGNMENT. SEE PROFILE FOR CHANNEL TYPES AND DETAILS (PHASE 1). SEE TABLE THIS SHEET FOR QUANTITIES.

PROPOSED CLEARING, GRUBBING, AND GRADING LIMIT

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURE. SEE SHEET VGC-12 (75 ±LF PHASE 1, 58 ±LF PHASE 3)

SEE SHEETS EC-1a THROUGH EC-2d AND SPECIAL TECHNICAL SPECIFICATIONS FOR LIMITS OF WORK IN EACH PHASE OF CONSTRUCTION.

PHASE 1 WORK AREA

MATCHLINE STA: PR-18+00 (SEE SHEET P-3)

SEE SHEETS EC-1a THROUGH EC-2d AND SPECIAL TECHNICAL SPECIFICATIONS FOR LIMITS OF WORK IN EACH PHASE OF CONSTRUCTION.

2 D-4 BACKFILL EXISTING CHANNEL. SEE CROSS-SECTIONS, SPECIAL TECHNICAL SPECIFICATIONS, AND DETAIL FOR INFORMATION (PHASE 3). SEE TABLE THIS SHEET FOR QUANTITIES.

WILLOW / ALDER RELOCATION WITHIN 150 ±LF OF EXISTING LOCATION AS DIRECTED BY ENGINEER (REVEGETATION TYPE D) STA 18+00.00 TO STA 19+05.15 (TYP.) (26± PHASE 1, 14± PHASE 3). SEE SPECIAL TECHNICAL SPECIFICATIONS.ANY WILLOW/ALDER IN EXCESS OF THIS QUANTITY ON THIS SHEET SHALL BE REMOVED OF AND DISPOSED OF. ALL COSTS WILL BE COVERED UNDER CLEARING AND GRUBBING REGARDLESS OF SIZE.

300 ±CY TEMPORARY GRADING (PHASE 1) TO CONSTRUCT AND BACKFILL THE PROPOSED CULVERT CONSTRUCTION. ALL FINISHED SLOPES SHALL BE 3:1 OR FLATTER. SEE REVEGETATION PLANS AND SPECIAL TECHNICAL SPECIFICATIONS FOR TEMPORARY REVEGETATION. (BOTH SIDES OF THE CULVERT)

APN 132-061-01 TO 132-061-24
HOA PROPERTY
MANAGEMENT SERVICE

35 ±LF (2 EACH) REMOVE AND DISPOSE OF 4.5' X 2.8' SQUASHED PIPE (EAST) AND 48" Ø (WEST) EXISTING CMP STORM DRAINAGE PIPES ON EITHER SIDE OF CONCRETE CUT-OFF WALLS (PHASE 3). SEE SPECIAL TECHNICAL SPECIFICATIONS.

ABANDON A PORTION OF CMP STORM DRAIN PIPE IN-PLACE. FILL SECTIONS BETWEEN CONCRETE CUT-OFF WALLS WITH SLURRY BACKFILL (TYP.) 40 LF± (2 EACH) (PHASE 3). SEE SPECIAL TECHNICAL SPECIFICATIONS.

SEE SHEETS P-5 THRU P-11 FOR ROADWAY RECONSTRUCTION AND RESTORATION INFORMATION (PHASE 3)

PROPOSED REINFORCED CONCRETE BOX CULVERT (OPENING 5' WIDE & 5' IN HEIGHT) SEE DETAIL SHEETS D-8 THRU D-13 FOR CULVERT INFORMATION 63 ±LF (PHASE 1)

RIGHT-OF-WAY LIMITS (TYP.)

TREE REMOVAL
SEE TABLE THIS SHEET AND SPECIAL TECHNICAL SPECIFICATIONS (TYP.)

PROPOSED FILL REMOVAL AREA AND VALLEY WIDE RESTORATION. SEE TIE IN SHEETS TI-14 THRU TI-18 FOR MORE INFORMATION.

PROPOSED VALLEY WIDE GRADING (PHASE 3). SEE TABLE THIS SHEET FOR QUANTITIES.

LAND CAPABILITY BOUNDARIES OUTSIDE OF THE SEZ ARE NOT SHOWN AT THIS TIME.

EXISTING CHANNEL ALIGNMENT (TYP.)

NORTHWOOD BLVD.

(BL) - 2+00

EX-25+00

(PR) - 22+00

EX-25+30

EX-24+00

(PR) - 21+00

MEET EXISTING CHANNEL. (LIMITS OF CHANNEL WORK)
STA: 21+07.65
ELEV: 6486.31 (MEET EXISTING)

10' TRANSITION TO MEET EXISTING CHANNEL (HORIZONTAL AND VERTICAL) FROM PROPOSED CHANNEL TO EXISTING CHANNEL. (SEE CROSS-SECTIONS)
(PHASE 3)

(BL) - 3+00

ANY OPEN "HOLE" LEFT AFTER COMPLETION OF PHASE 1 WORK SHALL BE COMPLETELY COVERED AND SECURED. THE CONTRACTOR SHALL PROPOSE A "PLAN" FOR REVIEW AND ACCEPTANCE BY THE ENGINEER (TYP.).

(PR) - 19+00

(PR) - 20+00

SEAL OFF ENTRANCE TO CULVERT AFTER CULVERT COMPLETION TO PREVENT ANY FLOW FROM ENTERING THE CULVERT OR EARTHEN MATERIAL FROM ENTERING THE CULVERT. THE OPENING SHALL BE PROTECTED WITH 3/4" PLYWOOD AND WATER FILLED BERM OR EQUIVALENT.

EX-23+00

EX-22+00

EX-21+00

APN 131-200-00
CLUB TAHOE

UPSTREAM TIE-IN CONSTRUCTION. SEE SHEETS TI-14 THROUGH TI-18 FOR IMPROVEMENTS ABOVE STATION (PR) 19+67.46

POTHOLE (3) EXISTING GAS AND WATER MAINS PRIOR TO CULVERT CONSTRUCTION

EXISTING 6"Ø WATER MAIN HAS BEEN PREVIOUSLY ABANDONED IN PLACE. SEE SHEETS P-12A THROUGH P-13 FOR APPROXIMATE SCOPE OF WORK FOR POTENTIAL RELOCATION EFFORT.

20 ±LF (EACH) CONSTRUCT CONCRETE CUT OFF WALLS (TYP.) (PHASE 3) 2 D-7

RIGHT-OF-WAY LIMITS (TYP.)

RELOCATE 6"Ø SANITARY SEWER. SEE SPECIAL TECHNICAL SPECIFICATIONS AND SHEETS P-12A THRU P-13 FOR APPROXIMATE SCOPE OF WORK FOR POTENTIAL TEMPORARY RELOCATION EFFORTS.

APN 131-110-02
INTL CHURCH /
FOURSQUARE GOSPEL

PROTECT OVERHEAD ELECTRIC, TELEPHONE, AND CABLE COMMUNICATIONS IN PLACE. ALSO PROTECT ALL EXISTING UTILITY POLES AND GUIDE WIRES IN PLACE. COORDINATE ALL EFFORTS WITH NV ENERGY, AT&T, AND CHARTER COMMUNICATIONS. SEE SPECIAL TECHNICAL SPECIFICATIONS.

PROTECT EXISTING GAS MAIN IN PLACE, OR RELOCATE AS NECESSARY. COORDINATE ALL EFFORTS WITH SOUTHWEST GAS. SEE SPECIAL TECHNICAL SPECIFICATIONS. SEE SHEETS P-12A THROUGH P-13 FOR APPROXIMATE SCOPE OF WORK FOR POTENTIAL RELOCATION EFFORT.

PROTECT EXISTING 12"Ø WATER IN PLACE, OR RELOCATE AS NECESSARY. COORDINATE ALL EFFORTS WITH INCLINE VILLAGE IMPROVEMENT DISTRICT. SEE SPECIAL TECHNICAL SPECIFICATIONS. SEE SHEETS P-12A THROUGH P-13 FOR APPROXIMATE SCOPE OF WORK FOR POTENTIAL RELOCATION EFFORT.

(BL) - 6+00

(BL) - 5+00

PHASE 3 WORK AREA

24.61'

26.60'

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATIONS AND REVEGETATION SHEETS (R-1 THRU R-4 AND REVEGETAION TREATMENTS IDENTIFIED ON SHEETS TI-1 THRU TI-18) FOR THE PROJECT.
2. PROPOSED CHANNEL, FLOODPLAIN AND BACKFILL OF EXISTING CHANNEL TO BE CONSTRUCTED AS SHOWN ON CROSS-SECTIONS (SHEETS XS-1 THROUGH XS-34). SEE SPECIAL TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION.
3. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
4. ALL MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIAL TECHNICAL SPECIFICATIONS.
5. SEE SHEETS EC-1a THRU EC-1d FOR TEMPORARY BURIED PROTECTION LOCATIONS.

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING 1	7,130 ±SF
CLEARING & GRUBBING 3	3,295 ±SF
PHASE 1 CUT	104 ±CY
PHASE 1 FILL	33 ±CY
PHASE 3 FILL	165 ±CY

CONIFER TREE REMOVAL TABLE (THIS SHEET ONLY TYP.)	
TREE D.B.H.	NO. OF TREES
6" - 12"	20
13" - 24"	7
25" - 36"	1
> 36"	0

LEGEND

PROPOSED PHASE 1 DISTURBANCE AREA

PROPOSED PHASE 3 DISTURBANCE AREA

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

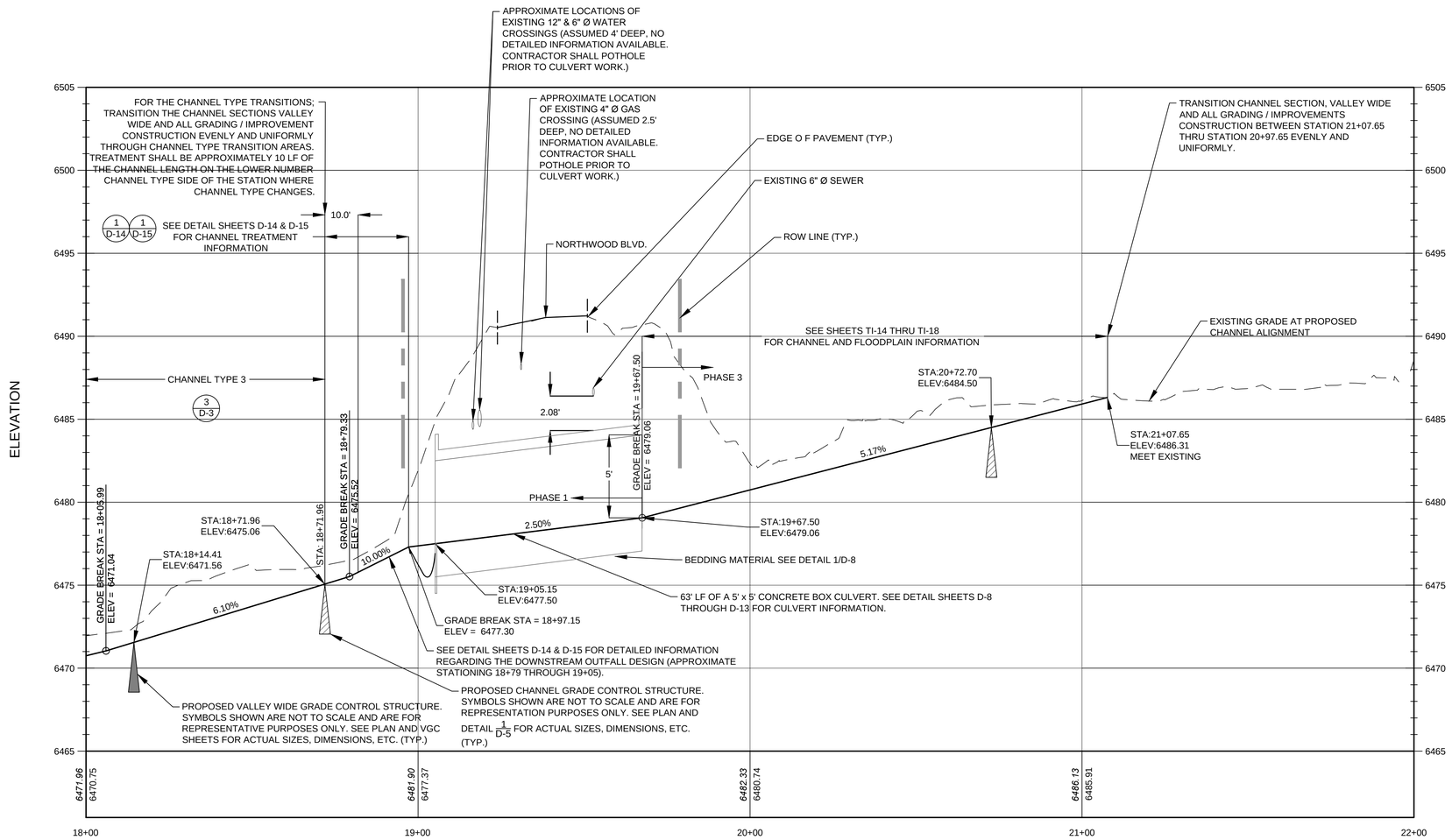
PLAN VIEW

STATION: PR-18+00 TO PR-22+19

DATE
6/2012

SHEET P-4

SHEET 11 OF 134



NOTES:

PROFILE REFERENCES PROPOSED CHANNEL ALIGNMENT.

CHANNEL AND VALLEY WIDE GRADE CONTROL STRUCTURES SYMBOLS ARE NOT TO SCALE AND ARE FOR REPRESENTATIVE PURPOSES ONLY.

SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.

FOR FINISHED GRADE SURFACE INFORMATION SEE CROSS SECTIONS FOR CONSTRUCTION OF CHANNEL AND FLOODPLAIN. PROFILE VIEW SHOWN ON THIS SHEET IS FOR REPRESENTATIVE PURPOSES ONLY. CHANNEL AND FLOODPLAIN SHALL BE SMOOTHLY GRADED BETWEEN CROSS SECTION TRANSITIONS.

ALL STATIONING IS BASED ON THE PROPOSED ALIGNMENT STATIONING. SEE CROSS SECTIONS FOR STATION EQUATIONS IN RELATION TO THE BASELINE ALIGNMENT.

LEGEND

PROPOSED CHANNEL GRADE CONTROL STRUCTURE (1 / D-5)

PROPOSED VALLEY WIDE GRADE CONTROL STRUCTURES (SEE SHEETS VGC-1 THRU VGC-12).

REVISIONS

MARK	DATE	BY	

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

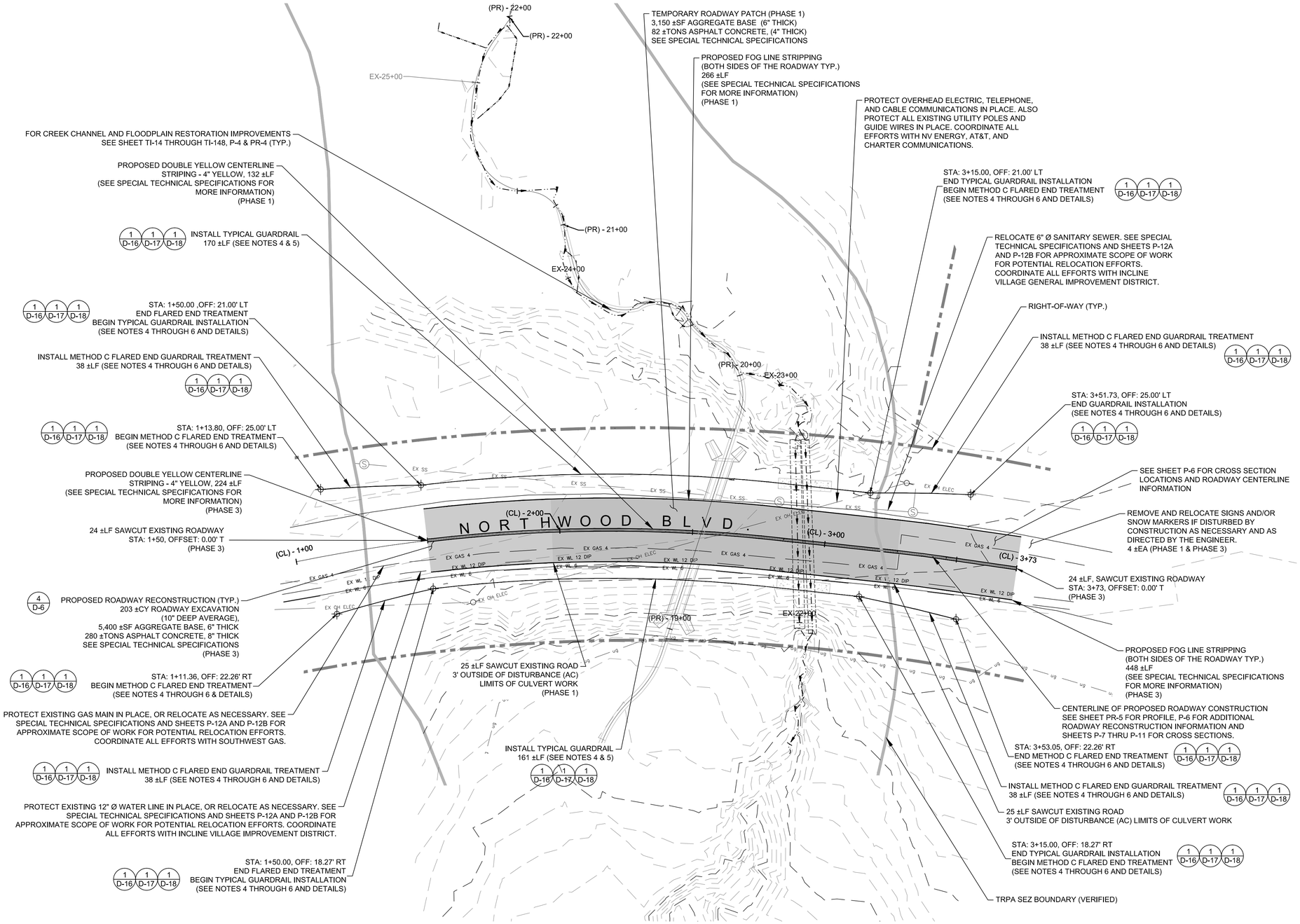
PROFILE

STATION: PR-18+00 TO PR-22+19

DATE 6/2012

SHEET PR-4

SHEET 12 OF 134



NOTES:

1. ALL STATIONING ON THIS SHEET IS BASED ON THE NORTHWOOD CENTER LINE ALIGNMENT.
2. SEE SHEET PR-5, FOR NORTHWOOD CENTER LINE PROFILE.
3. SEE SHEETS (P-7 THRU P-11) FOR ROADWAY SECTIONS.
4. GUARDRAIL BEAM SHALL BE A "W" BEAM.
5. GUARDRAIL POSTS SHALL BE WOOD POSTS. 7' FOOT LENGTH.
6. ANCHOR TERMINAL SHALL BE "METHOD C" ANCHOR TERMINAL.

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

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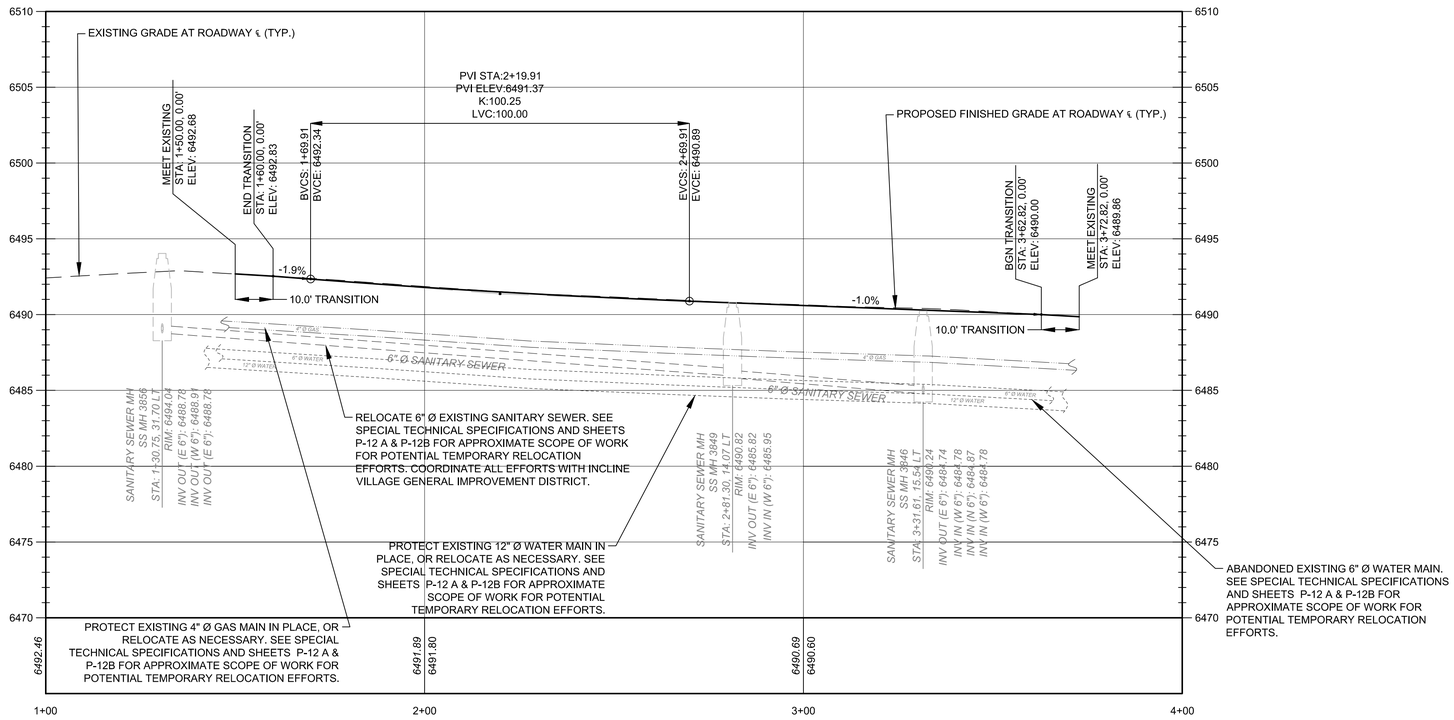
VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
ROADWAY RECONSTRUCTION

DATE
6/2012

SHEET P-5
SHEET 13 OF 134

Northwood Alignment PROFILE



HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

NOTES:

1. PROFILE REFERENCES PROPOSED NORTHWOOD CENTERLINE ALIGNMENT. (SEE SHEET P-6 FOR CENTERLINE INFORMATION)

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD (PROFILE VIEW)
STATION: CL 1+00 to CL 3+73

DATE
6/2012

SHEET PR-5

NOTES:

1. SEE SHEETS PR-5, AND P-7 THRU P-11 FOR RECONSTRUCTED ROADWAY PROFILE AND SECTIONS.
2. GAS AND WATER LINES NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.
3. NORTHWOOD ALIGNMENT INFORMATION IS LOCATED IN THE TABLE BELOW.
4. SEE SHEETS P-4, PR-4, & TI-14 THROUGH TI-18 FOR CREEK RESTORATION INFORMATION.

(CL) - 1+00
C1
5.0 ' (TYP.)
1+50.00
10' (TYP.)
1+65.00
1+80.00
1+95.00
2+10.00
2+25.00
2+40.00
2+55.00
2+70.00
2+85.00
3+00.00
3+15.00
3+30.00
3+45.00
3+60.00
(CL) - 2+00
(CL) - 3+00
(CL) - 3+73
NORTHWOOD BLVD
L1
L2
C2
PROPOSED CONTOURS ARE FOR REFERENCE ONLY. SEE SECTIONS (SHEETS P-7 THROUGH P-12 & TI-15 THROUGH TI-18) FOR INFORMATION.
PROPOSED ROADWAY GRADING LIMITS (TYP.)
SEE SHEETS P-4, PR-4, & TI-14 THROUGH TI-18 FOR CHANNEL, GRADE CONTROL, AND FLOODPLAIN IMPROVEMENT INFORMATION.
PROPOSED CONTOURS (TYP.)
SEE SHEET P-4 FOR TEMPORARY GRADING AND OTHER PROTECTIONS AT THE PROPOSED CULVERT.
SEE SHEET P-14 FOR CHANNEL INFORMATION
PC: 3+27.51
PT: 2+84.44
PT: 3+46.05
PROPERTY LINE (TYP.)
RIGHT OF WAY LINE (TYP.)
SEE SHEET P-5 AND PR-5 FOR ROADWAY RECONSTRUCTION INFORMATION.
SEE SHEET P-4 FOR TEMPORARY GRADING AND OTHER PROTECTIONS AT THE PROPOSED CULVERT.
EX-20+00
EX-21+00
EX-22+00
EX-23+00
EX-24+00
EX-25+00
EX-25+30
(PR) - 17+00
(PR) - 18+00
(PR) - 21+00
(PR) - 22+00
(PR) - 22+00
APN 131-200-00
CLUB TAHOE
APN 132-061-01 TO 132-061-24
HOA PROPERTY
MANAGEMENT SERVICE
APN 131-110-02
INTL CHURCH /
FOURSQUARE GOSPEL

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
C1	184.44	N79° 37' 08.91"E	(14768937.91,2238498.94)	(14768946.24,2238682.42)
L1	43.07	S83° 49' 27.32"E	(14768946.24,2238682.42)	(14768941.61,2238725.25)
C2	18.54	S82° 46' 06.03"E	(14768941.61,2238725.25)	(14768939.27,2238743.64)
L2	26.77	S81° 42' 22.49"E	(14768939.27,2238743.64)	(14768935.41,2238770.13)

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
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CIVIL
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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

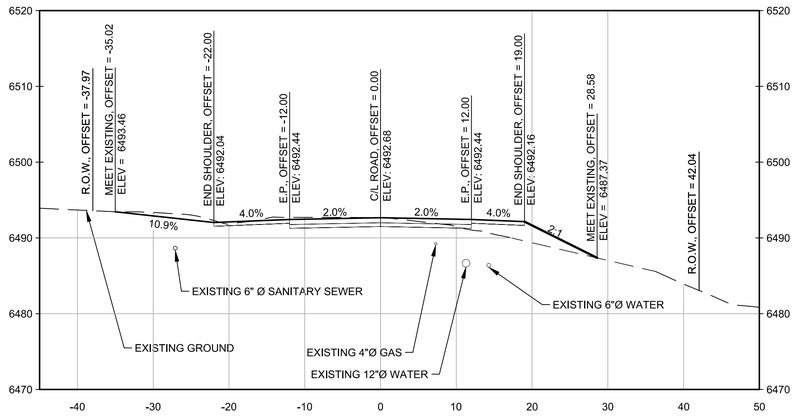
NORTHWOOD BLVD (PLAN VIEW)

STATION: CL 1+00 to CL 3+73

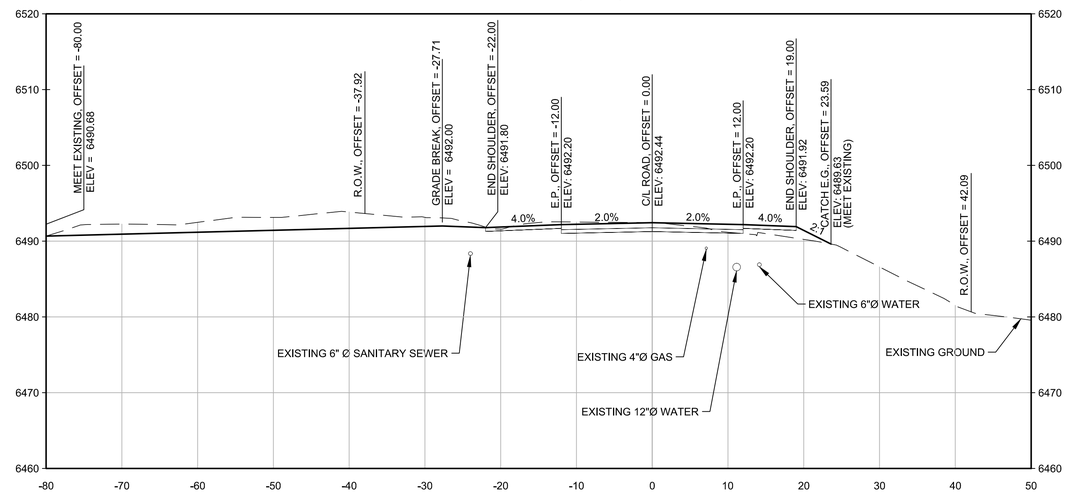
DATE
6/2012

SHEET P-6

(CL) 1+50.00



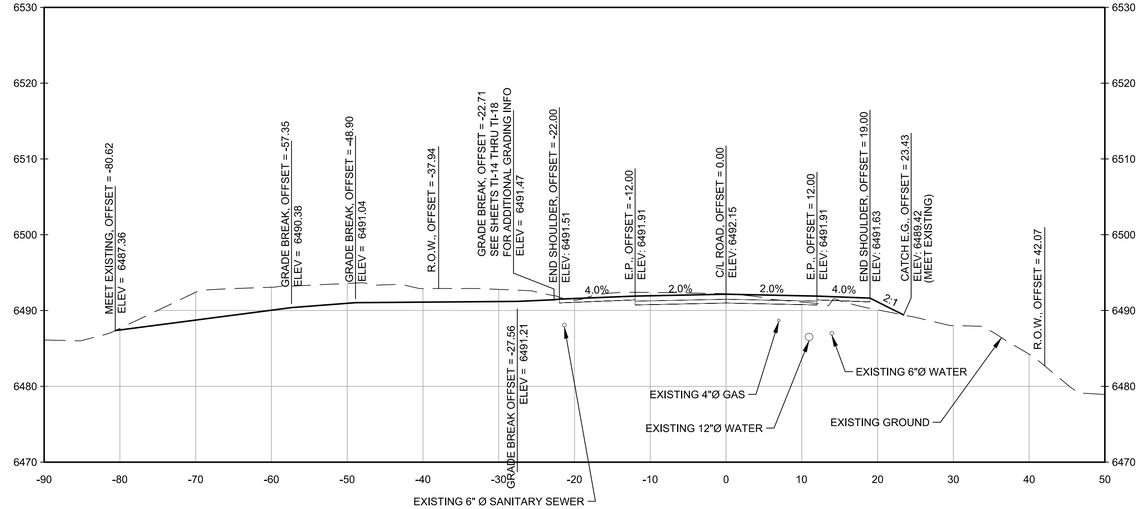
(CL) 1+65.00



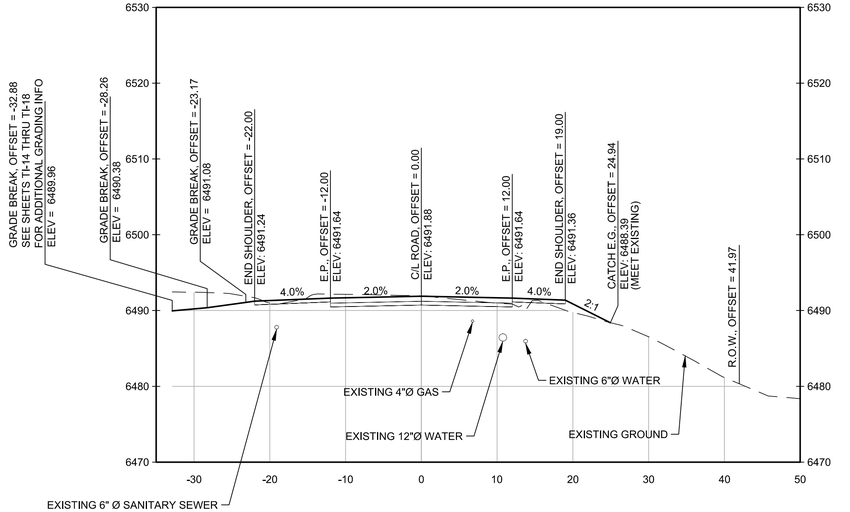
NOTES:

1. GAS, SEWER AND WATER SHOWN ARE AT REPRESENTATIVE LOCATIONS. CONTRACTOR TO POTHOLE ALL GAS AND WATER PRIOR TO ANY ROAD WAY CONSTRUCTION.
2. WATER LINES ARE ASSUMED TO BE 4.0' BELOW THE EXISTING GROUND SURFACE.
3. GAS LINES ARE ASSUMED TO BE 2.5' BELOW THE EXISTING GROUND SURFACE.

(CL) 1+80.00



(CL) 1+95.00



CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

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VALLEY & MOUNTAIN CONSULTING

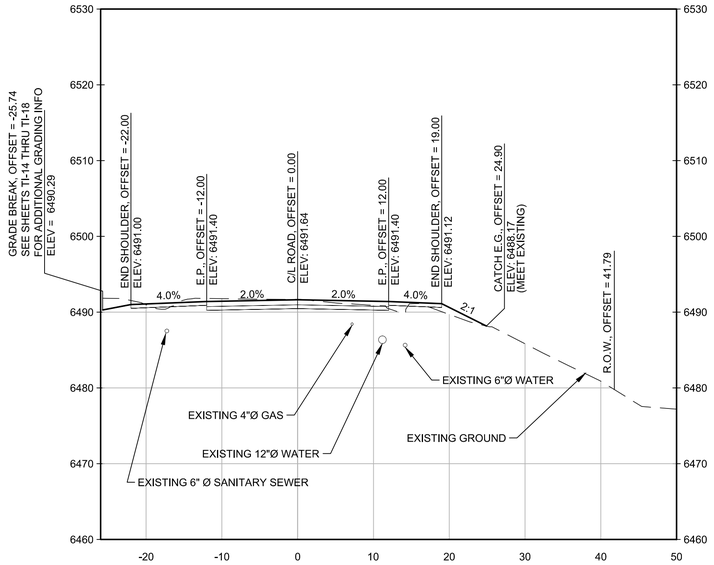
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD. (XS SECTION)
STATION: CL-1+05 THRU CL-1+50

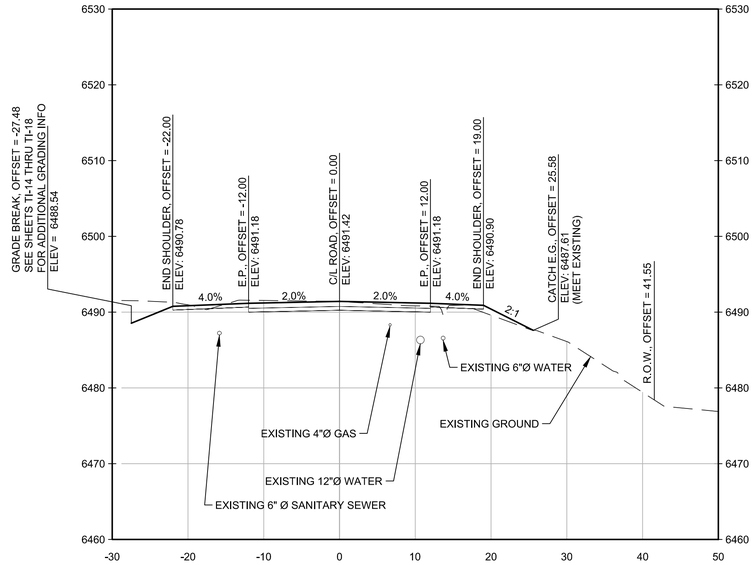
DATE
6/2012

SHEET P-7

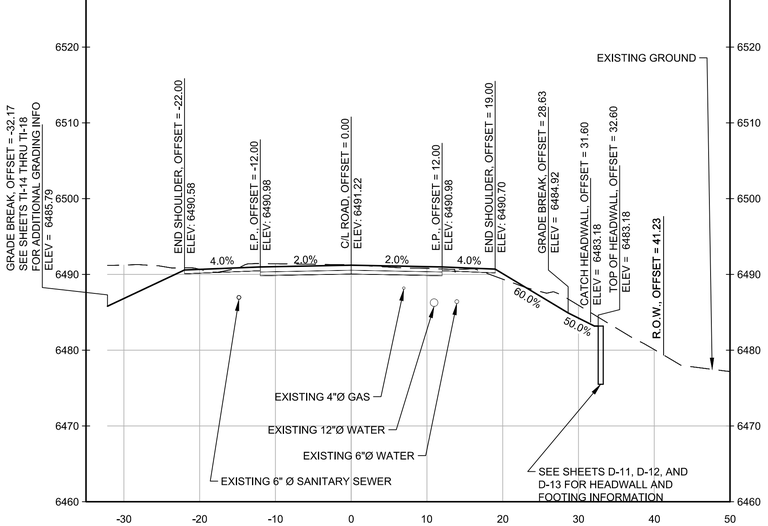
(CL) 2+10.00



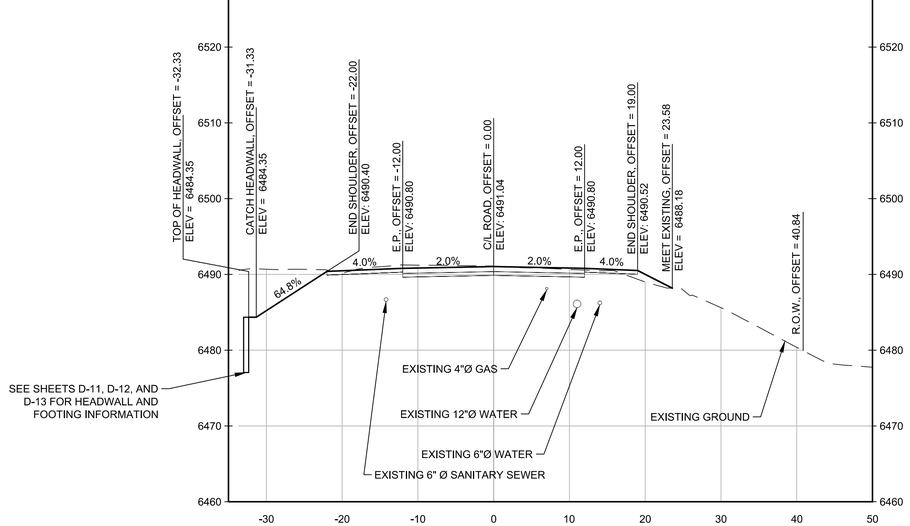
(CL) 2+25.00



(CL) 2+40.00



(CL) 2+55.00



NOTES:

1. GAS AND WATER SHOWN ARE AT REPRESENTATIVE LOCATIONS. CONTRACTOR TO POTHOLE ALL GAS AND WATER PRIOR TO ANY ROAD WAY CONSTRUCTION.
2. WATER LINES ARE ASSUMED TO BE 4.0' BELOW THE EXISTING GROUND SURFACE.
3. GAS LINES ARE ASSUMED TO BE 2.5' BELOW THE EXISTING GROUND SURFACE.

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD. (XS SECTION)
STATION: CL-1+65 THRU CL-2+10

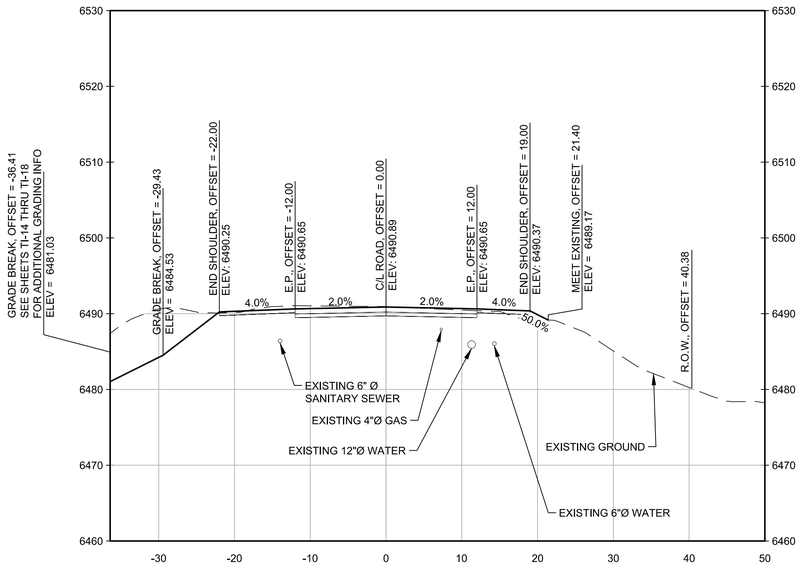
DATE
6/2012

SHEET P-8

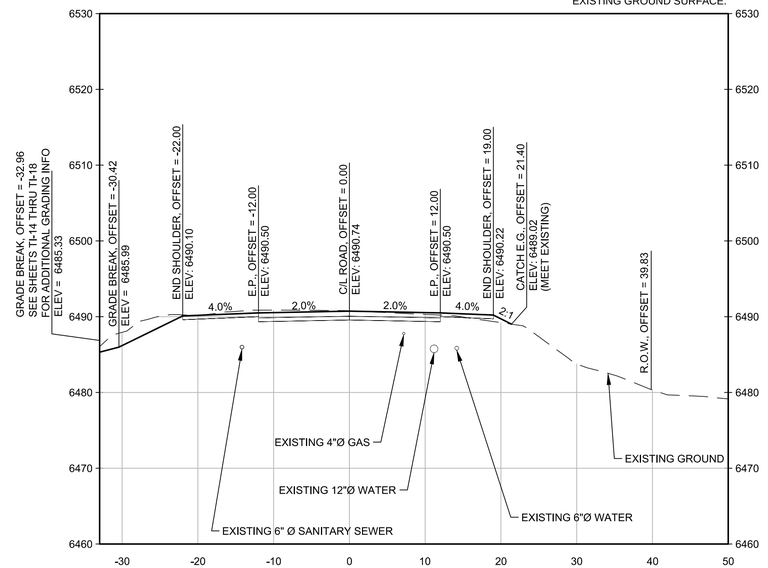
NOTES:

1. GAS AND WATER SHOWN ARE AT REPRESENTATIVE LOCATIONS. CONTRACTOR TO POTHOLE ALL GAS AND WATER PRIOR TO ANY ROAD WAY CONSTRUCTION.
2. WATER LINES ARE ASSUMED TO BE 4.0' BELOW THE EXISTING GROUND SURFACE.
3. GAS LINES ARE ASSUMED TO BE 2.5' BELOW THE EXISTING GROUND SURFACE.

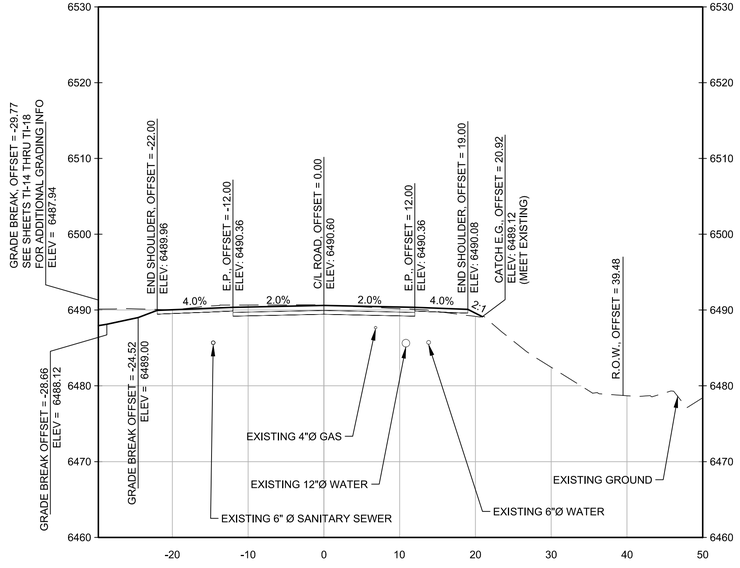
(CL) 2+70.00



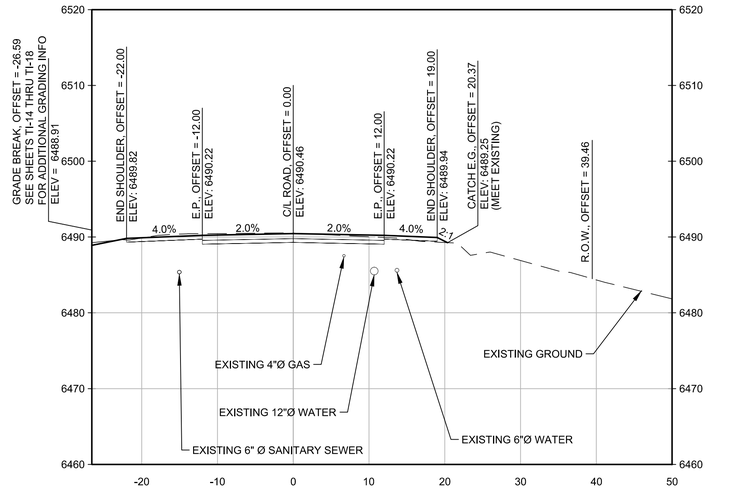
(CL) 2+85.00



(CL) 3+00.00



(CL) 3+15.00



CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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No. 16993

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VALLEY & MOUNTAIN CONSULTING

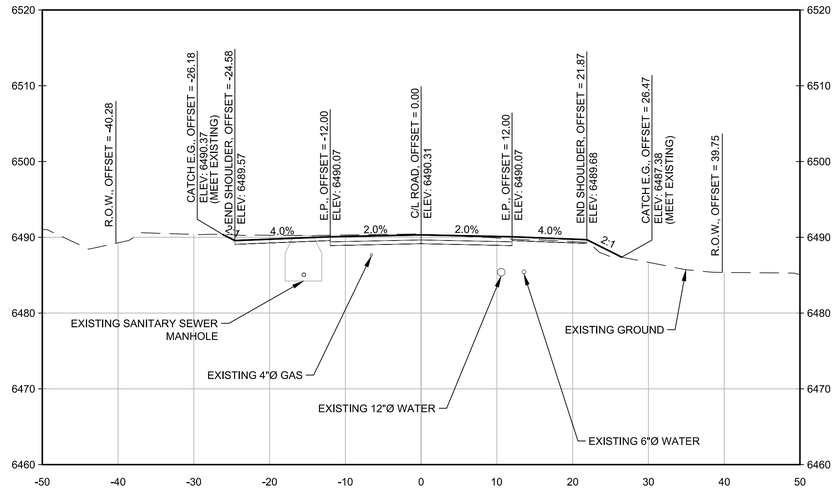
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD. (XS SHEET)
STATION: CL-2+25 THRU CL-2+70

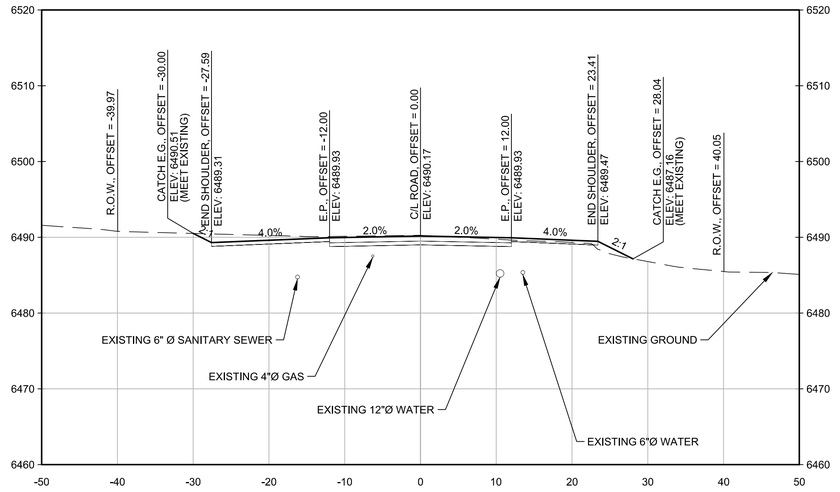
DATE
6/2012

SHEET P-9

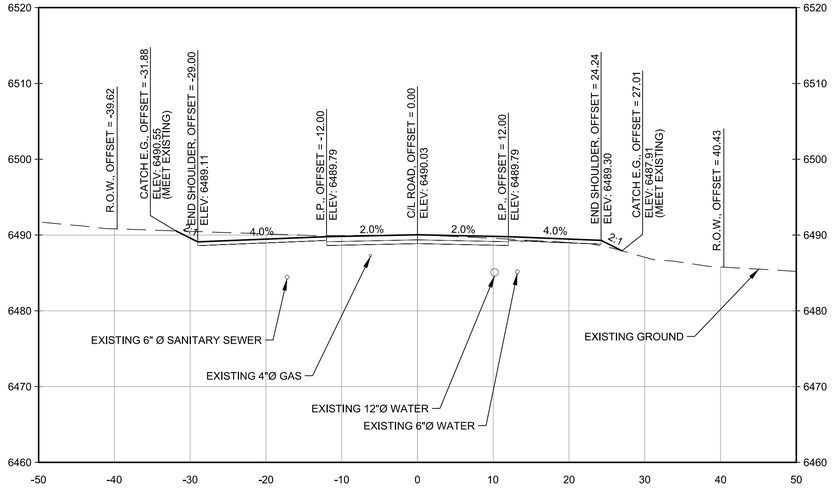
(CL) 3+30.00



(CL) 3+45.00



(CL) 3+60.00



NOTES:

1. GAS AND WATER SHOWN ARE AT REPRESENTATIVE LOCATIONS. CONTRACTOR TO POTHOLE ALL GAS AND WATER PRIOR TO ANY ROAD WAY CONSTRUCTION.
2. WATER LINES ARE ASSUMED TO BE 4.0' BELOW THE EXISTING GROUND SURFACE.
3. GAS LINES ARE ASSUMED TO BE 2.5' BELOW THE EXISTING GROUND SURFACE.

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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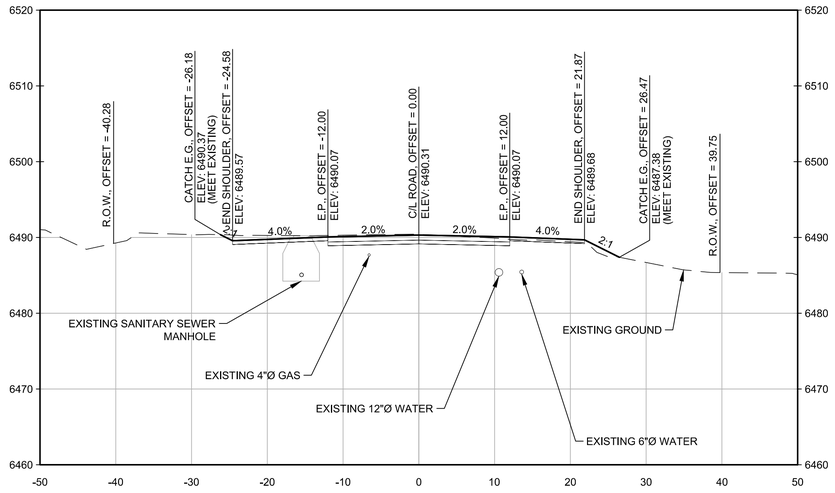
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD. (XS SECTION)
STATION: CL-2+85 THRU CL-3+30

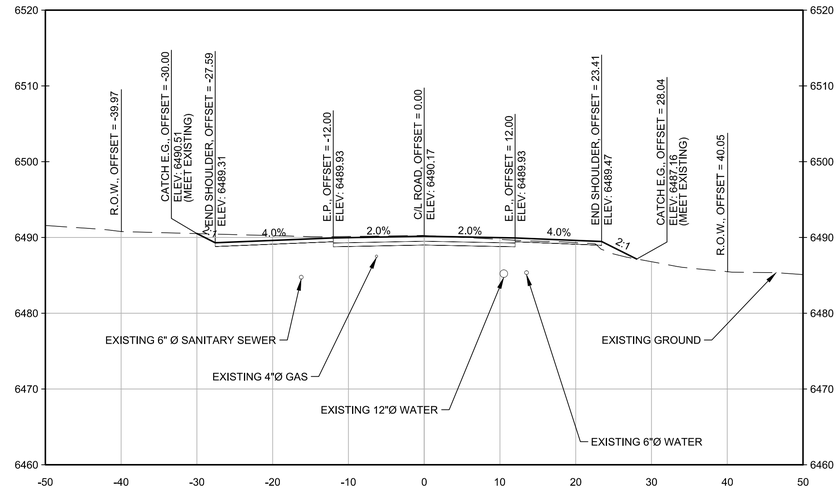
DATE
6/2012

SHEET P-10

(CL) 3+30.00



(CL) 3+45.00



NOTES:

1. GAS AND WATER SHOWN ARE AT REPRESENTATIVE LOCATIONS. CONTRACTOR TO POTHOLE ALL GAS AND WATER PRIOR TO ANY ROAD WAY CONSTRUCTION.
2. WATER LINES ARE ASSUMED TO BE 4.0' BELOW THE EXISTING GROUND SURFACE.
3. GAS LINES ARE ASSUMED TO BE 2.5' BELOW THE EXISTING GROUND SURFACE.

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

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Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
295 Hwy 50, Suite 1
P.O. Box 1533
Zephyr Cove, NV 89448
(775) 775-9069 Main

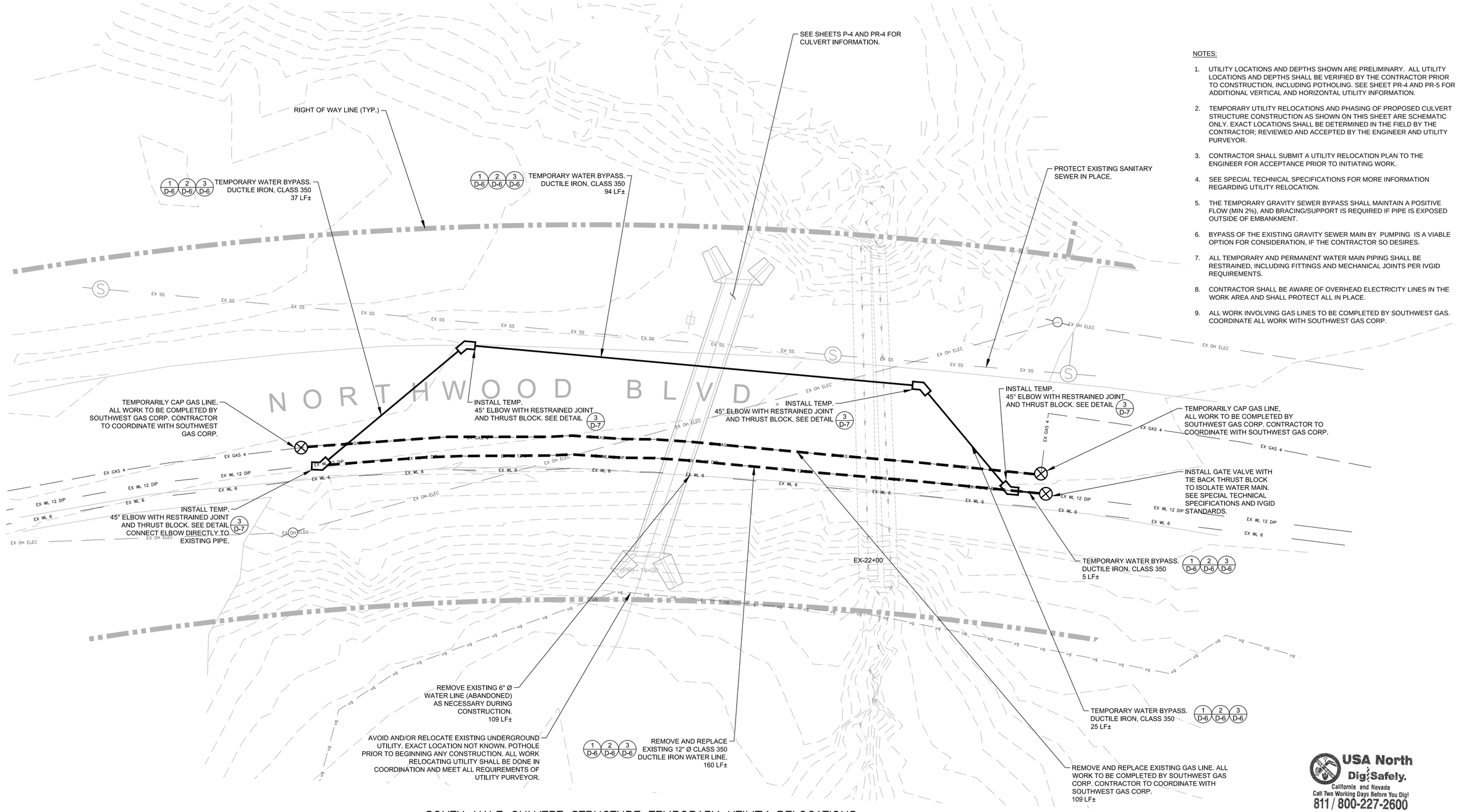
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD. (XS SECTION)
STATION: CL-3+45 THRU CL-3+60

DATE
6/2012

SHEET P-11



SOUTH HALF CULVERT STRUCTURE TEMPORARY UTILITY RELOCATIONS

SCALE: 1" = 10'

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
NO. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

NORTHWOOD BLVD TEMPORARY UTILITY RELOCATION PLAN (SOUTH)

DATE 6/2012

SHEET P-12A

SHEET 21 OF 134

NOTES:

1. UTILITY LOCATIONS AND DEPTHS SHOWN ARE PRELIMINARY. ALL UTILITY LOCATIONS AND DEPTHS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION, INCLUDING POTHOLING. SEE SHEET PR-4 AND PR-5 FOR ADDITIONAL VERTICAL AND HORIZONTAL UTILITY INFORMATION.
2. TEMPORARY UTILITY RELOCATIONS AND PHASING OF PROPOSED CULVERT STRUCTURE CONSTRUCTION AS SHOWN ON THIS SHEET ARE SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR; REVIEWED AND ACCEPTED BY THE ENGINEER AND UTILITY PURVEYOR.
3. CONTRACTOR SHALL SUBMIT A UTILITY RELOCATION PLAN TO THE ENGINEER FOR ACCEPTANCE PRIOR TO INITIATING WORK.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION REGARDING UTILITY RELOCATION.
5. THE TEMPORARY GRAVITY SEWER BYPASS SHALL MAINTAIN A POSITIVE FLOW (MIN 2%), AND BRACING/SUPPORT IS REQUIRED IF PIPE IS EXPOSED OUTSIDE OF EMBANKMENT.
6. BYPASS OF THE EXISTING GRAVITY SEWER MAIN BY PUMPING IS A VIABLE OPTION FOR CONSIDERATION, IF THE CONTRACTOR SO DESIRES.
7. ALL TEMPORARY AND PERMANENT WATER MAIN PIPING SHALL BE RESTRAINED, INCLUDING FITTINGS AND MECHANICAL JOINTS PER IVGID REQUIREMENTS.
8. CONTRACTOR SHALL BE AWARE OF OVERHEAD ELECTRICITY LINES IN THE WORK AREA AND SHALL PROTECT ALL IN PLACE.
9. ALL WORK INVOLVING GAS LINES TO BE COMPLETED BY SOUTHWEST GAS. COORDINATE ALL WORK WITH SOUTHWEST GAS CORP.

REMOVE AND REPLACE EXISTING SEWER MAIN FROM MANHOLE TO MANHOLE AFTER COMPLETION OF TEMPORARY BYPASS. INVERT ELEVATIONS OF NEW PIPE TO MATCH EXISTING INVERTS AT EACH MANHOLE. 202 LF ±, SDR-35.

2 D-6 3 D-6

INSTALL TEMP. 45° ELBOW. CONNECT 45° ELBOW DIRECTLY TO EXISTING SANITARY SEWER PIPE FOR TEMPORARY BYPASS.

TEMPORARY SEWER BYPASS. SDR-35 25 LF±

2 D-6 3 D-6

SEE SHEETS P-4 THROUGH PR-4 FOR CULVERT INFORMATION.

2 D-6 3 D-6 TEMPORARY SEWER BYPASS. SDR-35 25 LF±

REMOVE EXISTING SEWER MANHOLE

INSTALL TEMP. 45° ELBOW. CONNECT 45° ELBOW DIRECTLY TO EXISTING SANITARY SEWER PIPE FOR TEMPORARY BYPASS.

INSTALL TEMP. 45° ELBOW

INSTALL TEMP. 45° ELBOW

ALL WORK WITHIN 10' OF EXISTING UTILITY POLE SHALL BE COORDINATED WITH NV ENERGY, AT&T, AND CHARTER COMMUNICATIONS. SEE SPECIAL TECHNICAL SPECIFICATIONS.

2 D-6 3 D-6 TEMPORARY SEWER BYPASS. SDR-35 100 LF±

PROTECT EXISTING GAS, WATER, AND OVERHEAD UTILITIES IN PLACE.

NORTHWOOD BLVD

(CL) - 2+00 (CL) - 3+00 (CL) - 3+73 EX-22+00 (PBV) - 19+08

EX GAS 4 EX WL 12 DIP EX WL 6 EX OH ELEC

USA North Dig Safely. California and Nevada Call Two Working Days Before You Dig! 811 / 800-227-2600

NORTH HALF CULVERT STRUCTURE TEMPORARY UTILITY RELOCATIONS

SCALE: 1" = 10'

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE SCALE IN FEET 10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA STEPHEN H. PECK Exp.12/31/13 CIVIL No. 16993

SEAL OF WASHOE COUNTY STATE OF NEVADA

Nevada Tahoe Conservation District

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

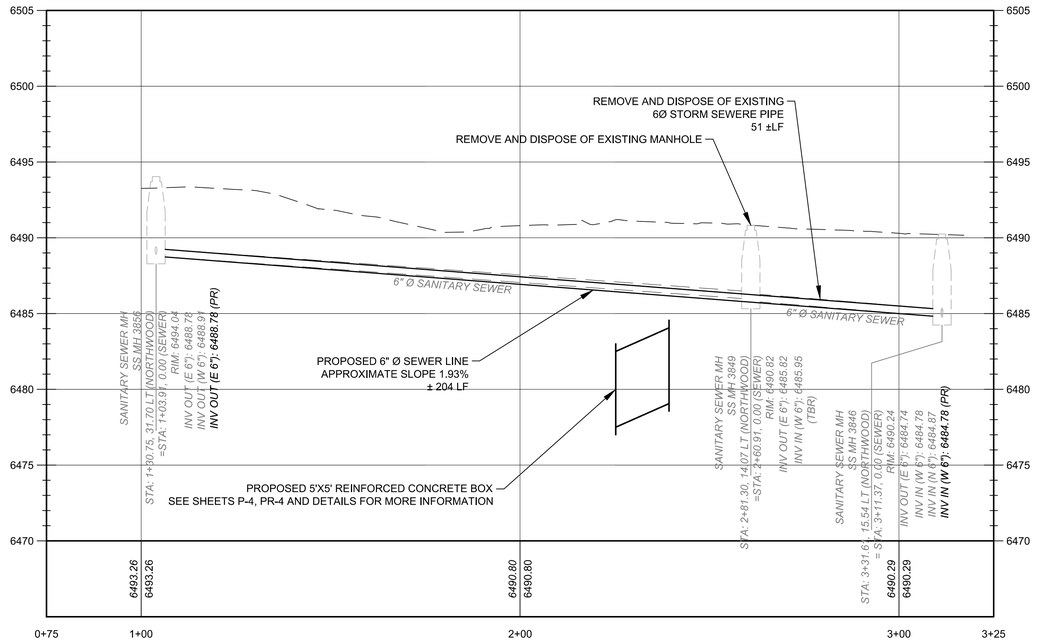
NORTHWOOD BLVD TEMPORARY UTILITY RELOCATION PLAN (NORTH)

DATE 6/2012

SHEET P-12B

SHEET 22 OF 134

NORTHWOOD SEWER ALIGNMENT PROFILE



NOTES:

1. PROFILE REFERENCES PROPOSED NORTHWOOD CENTERLINE ALIGNMENT. (SEE SHEET P-6 FOR CENTERLINE INFORMATION)

REVISIONS			
MARK	DATE	BY	

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 4'

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

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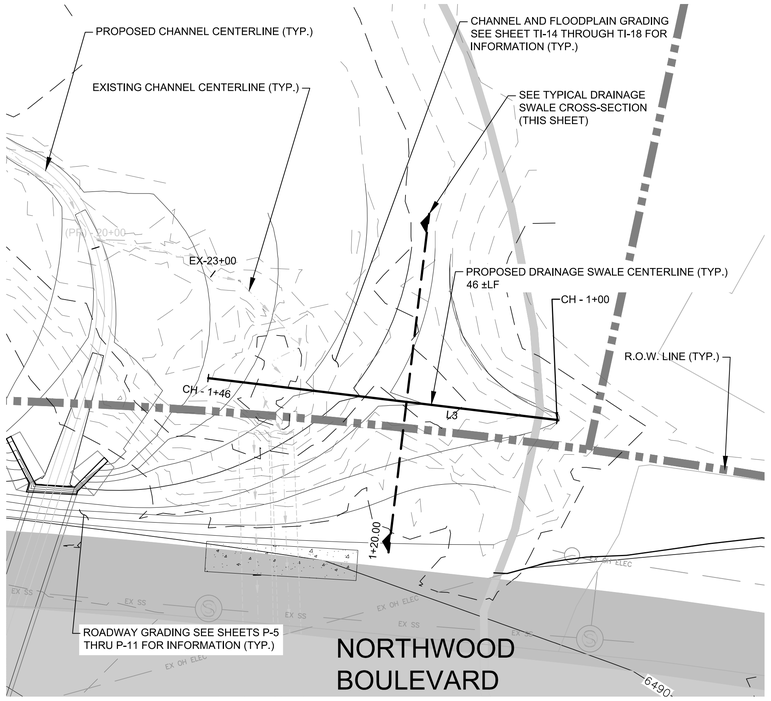
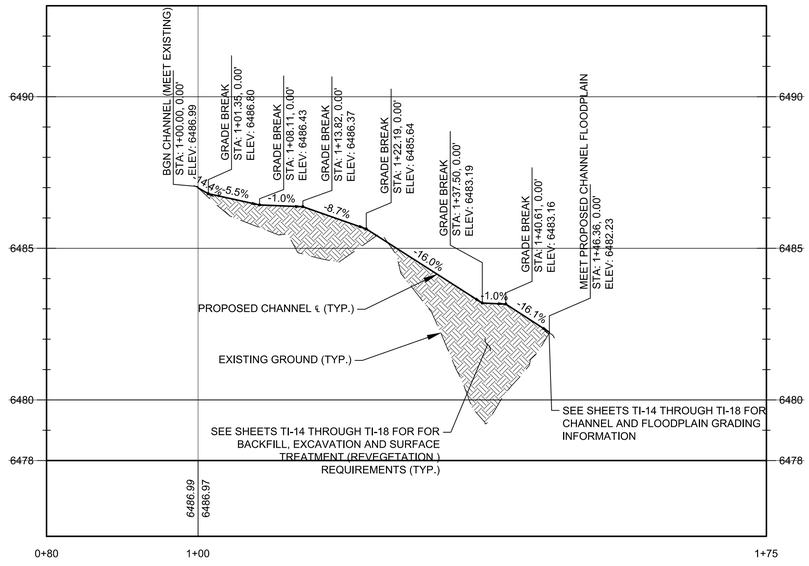
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
SEWER RELOCATION PROFILE

DATE
6/2012

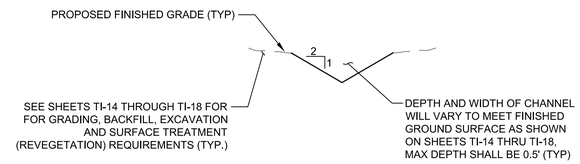
SHEET PR-13



PLAN



DRAINAGE SWALE PROFILE



TYPICAL DRAINAGE SWALE CROSS-SECTION

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L3	46.36	N83° 09' 15.01"W	(14768985.45,2238726.81)	(14768990.98,2238680.78)

DRAINAGE CHANNEL

1" = 10'

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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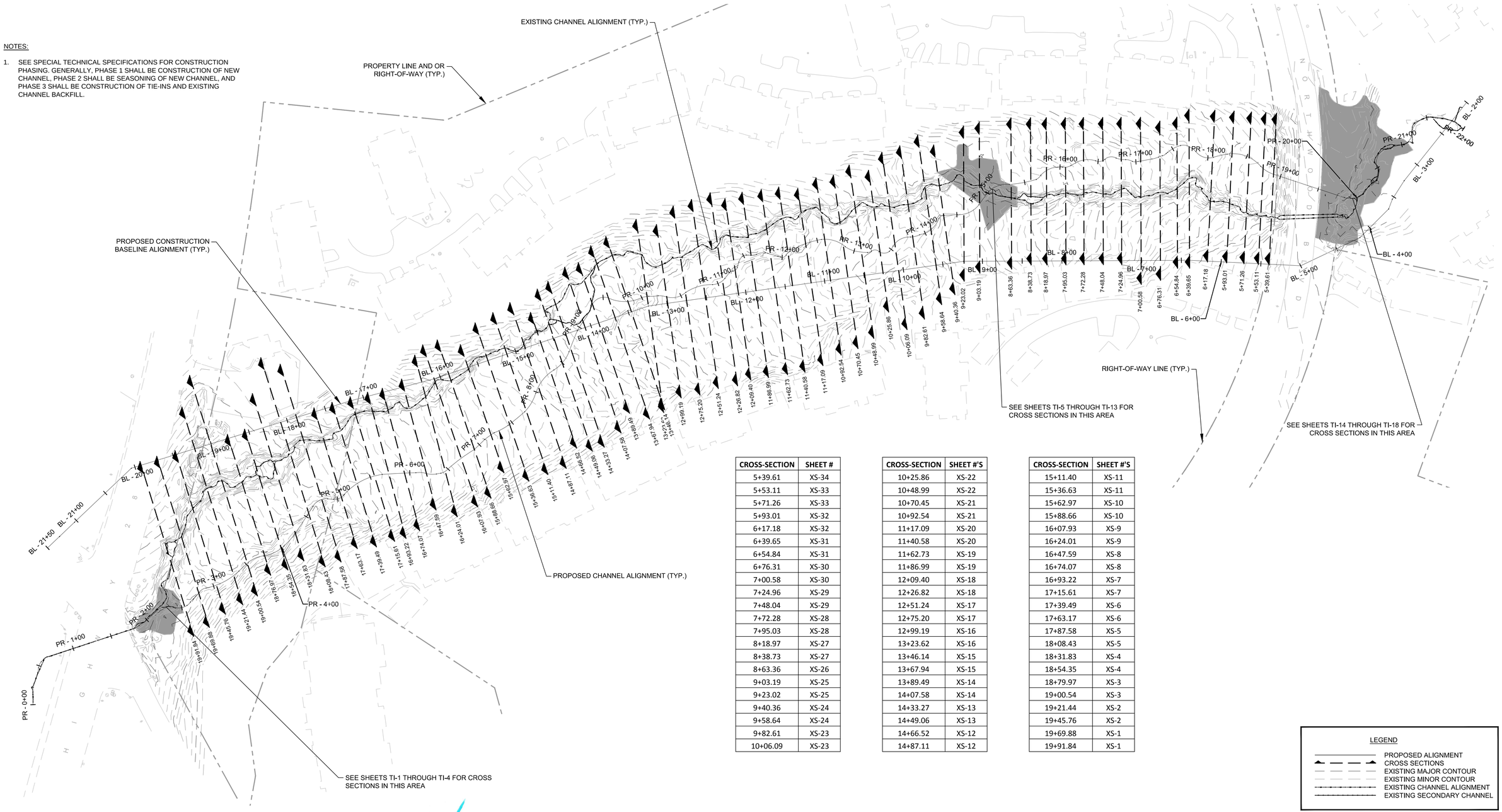
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DRAINAGE SWALE AT NORTHWOOD BOULEVARD

DATE
6/2012

SHEET P-14

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.



CROSS-SECTION	SHEET #
5+39.61	XS-34
5+53.11	XS-33
5+71.26	XS-33
5+93.01	XS-32
6+17.18	XS-32
6+39.65	XS-31
6+54.84	XS-31
6+76.31	XS-30
7+00.58	XS-30
7+24.96	XS-29
7+48.04	XS-29
7+72.28	XS-28
7+95.03	XS-28
8+18.97	XS-27
8+38.73	XS-27
8+63.36	XS-26
9+03.19	XS-25
9+23.02	XS-25
9+40.36	XS-24
9+58.64	XS-24
9+82.61	XS-23
10+06.09	XS-23

CROSS-SECTION	SHEET #'S
10+25.86	XS-22
10+48.99	XS-22
10+70.45	XS-21
10+92.54	XS-21
11+17.09	XS-20
11+40.58	XS-20
11+62.73	XS-19
11+86.99	XS-19
12+09.40	XS-18
12+26.82	XS-18
12+51.24	XS-17
12+75.20	XS-17
12+99.19	XS-16
13+23.62	XS-16
13+46.14	XS-15
13+67.94	XS-15
13+89.49	XS-14
14+07.58	XS-14
14+33.27	XS-13
14+49.06	XS-13
14+66.52	XS-12
14+87.11	XS-12

CROSS-SECTION	SHEET #'S
15+11.40	XS-11
15+36.63	XS-11
15+62.97	XS-10
15+88.66	XS-10
16+07.93	XS-9
16+24.01	XS-9
16+47.59	XS-8
16+74.07	XS-8
16+93.22	XS-7
17+15.61	XS-7
17+39.49	XS-6
17+63.17	XS-6
17+87.58	XS-5
18+08.43	XS-5
18+31.83	XS-4
18+54.35	XS-4
18+79.97	XS-3
19+00.54	XS-3
19+21.44	XS-2
19+45.76	XS-2
19+69.88	XS-1
19+91.84	XS-1

LEGEND

- PROPOSED ALIGNMENT
- CROSS SECTIONS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
60 30 0 60

PROFESSIONAL ENGINEER-STATE OF NEVADA
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VALLEY & MOUNTAIN CONSULTING

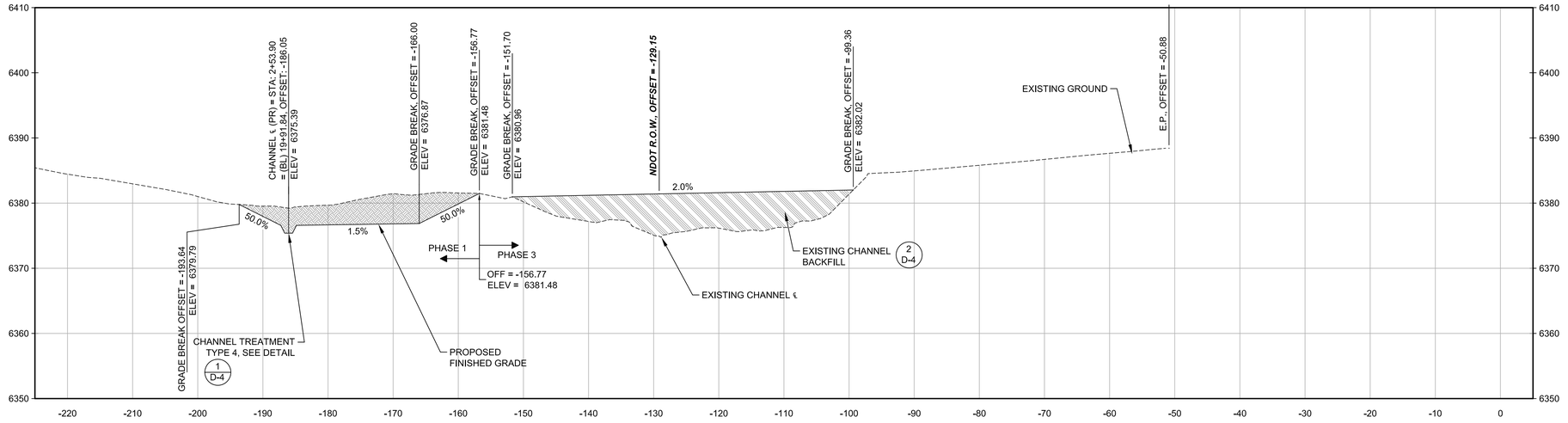
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTION INDEX SHEET

DATE
6/2012

SHEET XS-i

SHEET 25 OF 134

(BL) 19+91.84 = STA: (PR) 2+53.90



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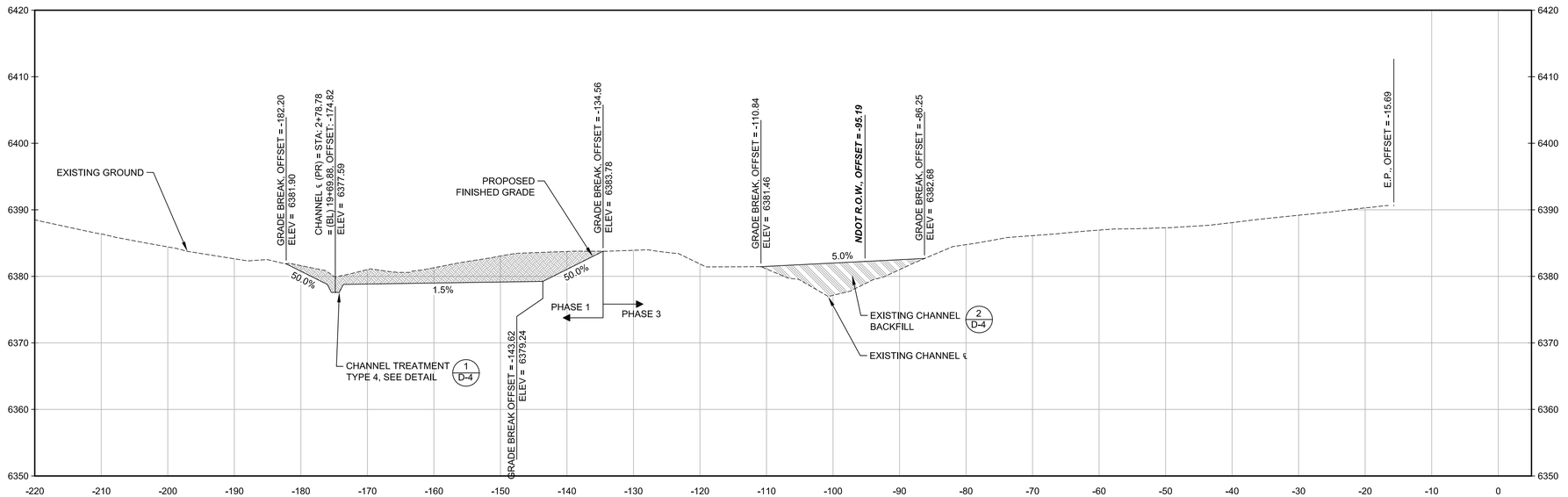

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. STATION ZERO REFERS TO THE BASELINE CONSTRUCTION ALIGNMENT POSITIVE AND NEGATIVE VALUES DENOTE THE DISTANCE FORM THIS ALIGNMENT LOOKING DOWNSTREAM.
3. REFERENCE REVEGETATION SHEETS R-1 THROUGH R-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR SURFACE TREATMENT OUTSIDE OF CHANNEL AREA AS SHOWN ON CHANNEL TREATMENT DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}3}$, & $\frac{1}{D\text{-}4}$.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}3}$, AND $\frac{1}{D\text{-}4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D\text{-}4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS

MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS

STATION: BL-19+91 & BL-19+69

DATE
6/2012

SHEET XS-1

NOTES:

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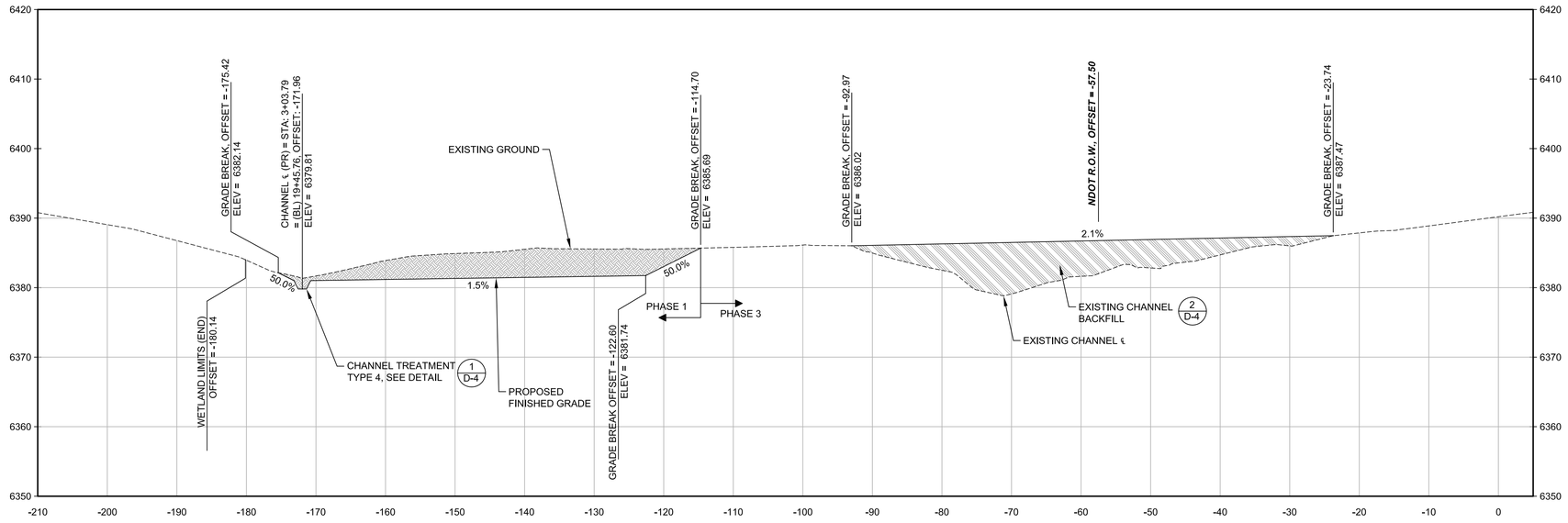
LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

(BL) 19+45.76 = STA: (PR) 3+03.79



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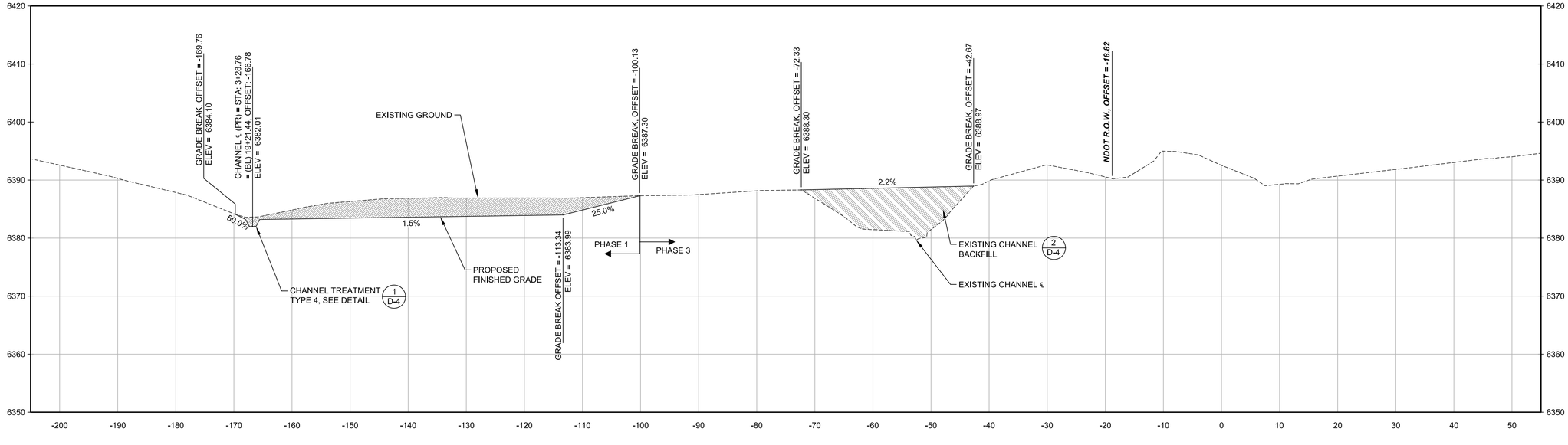

REVISIONS

MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

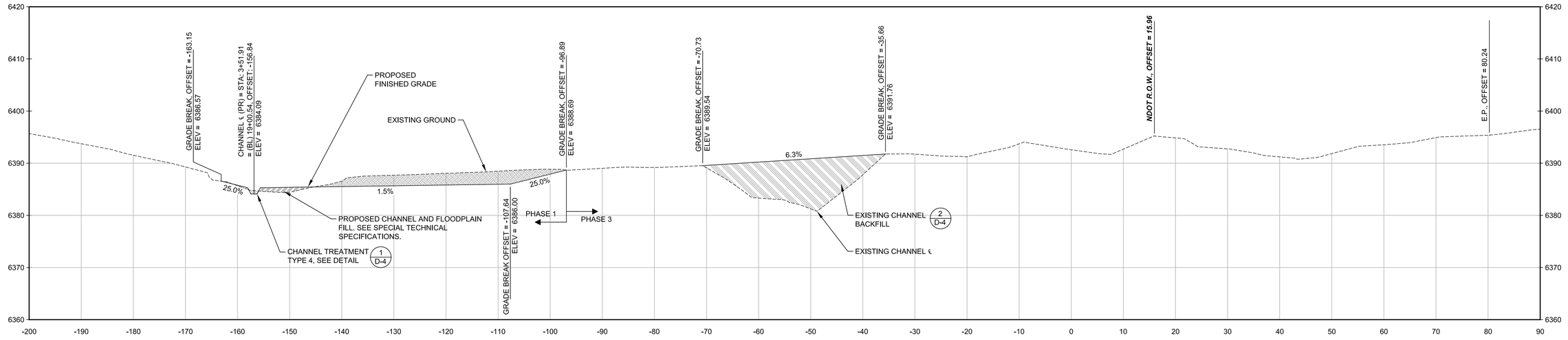
CROSS SECTIONS

STATION: BL-19+46 & BL-19+21

DATE
6/2012

SHEET XS-2

(BL) 19+00.54 = STA: (PR) 3+51.91



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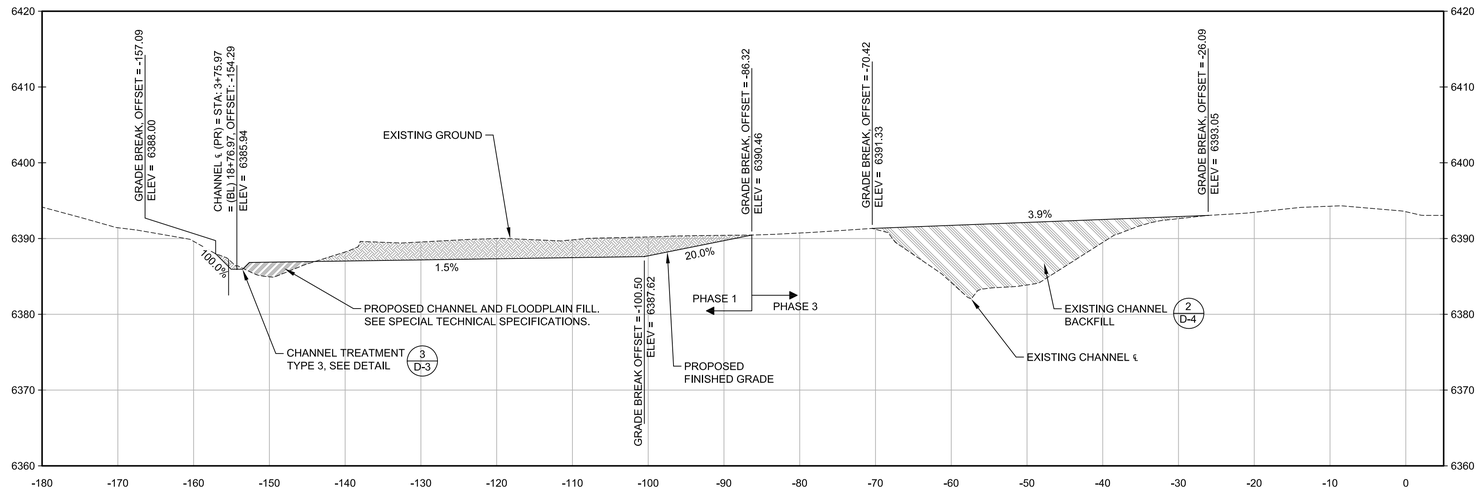

NOTES:

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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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STATE OF NEVADA

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

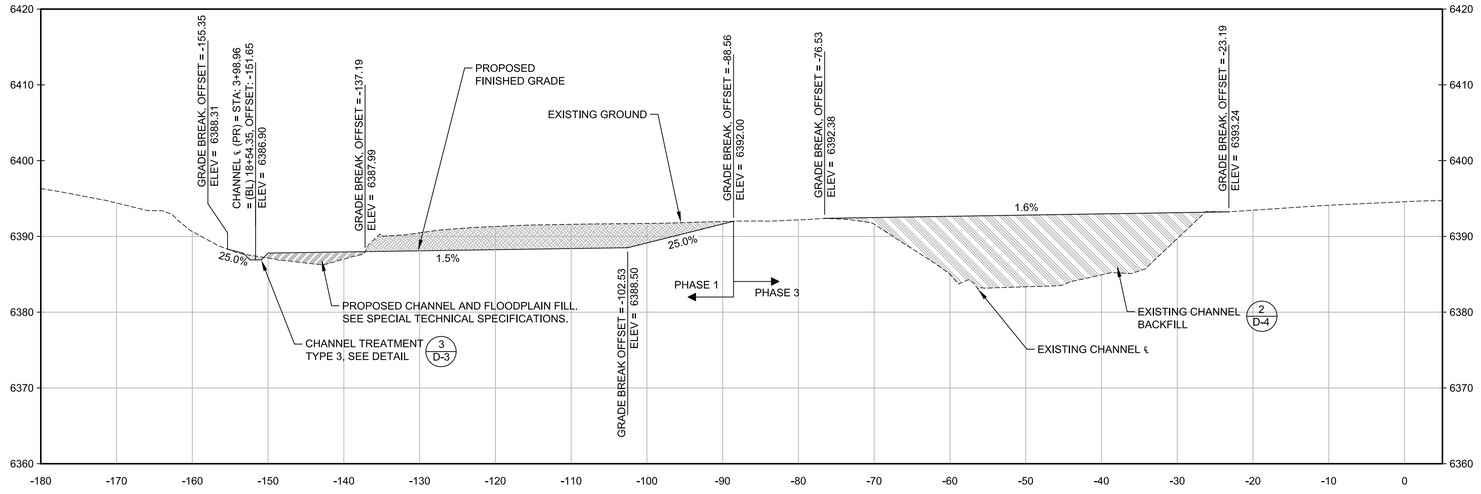
CROSS SECTIONS

STATION: BL-19+00 & BL-18+76

DATE
6/2012

SHEET XS-3

(BL) 18+54.35 = STA: (PR) 3+98.96



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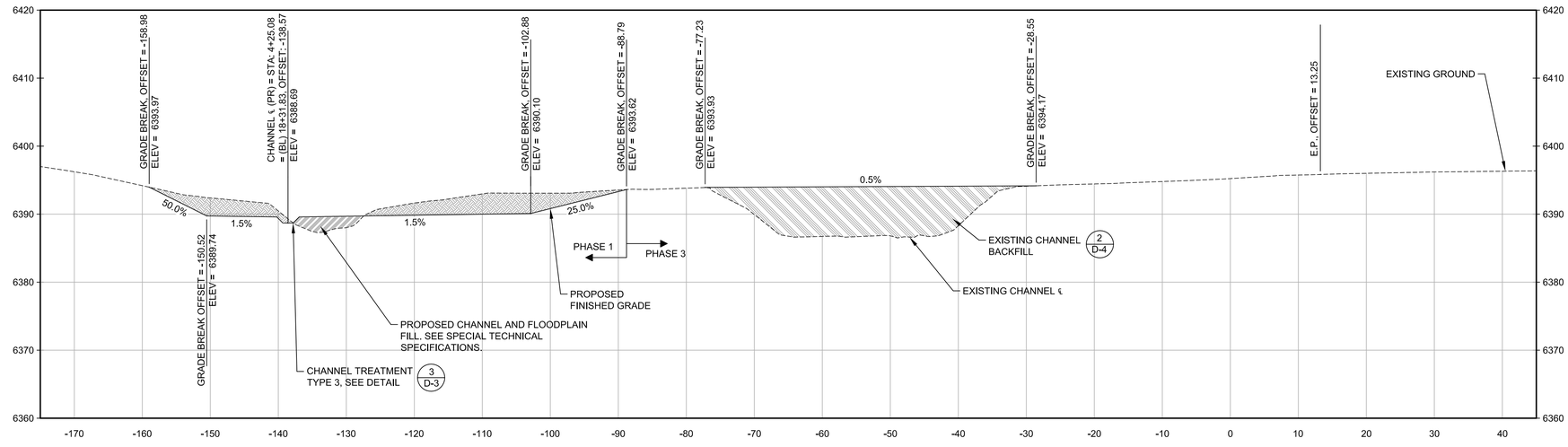
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}4}$, AND $\frac{1}{D\text{-}4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D\text{-}4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

(BL) 18+31.83 = STA: (PR) 4+25.08



LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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VALLEY & MOUNTAIN CONSULTING

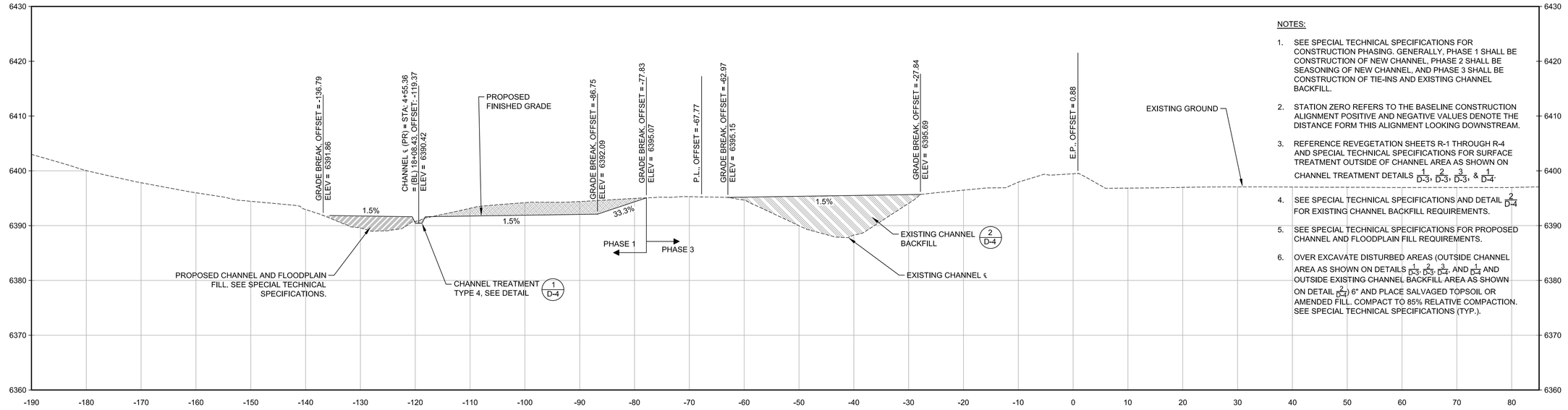
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-18+54 & BL-18+31

DATE
6/2012

SHEET XS-4

(BL) 18+08.43 = STA: (PR) 4+55.36



NOTES:

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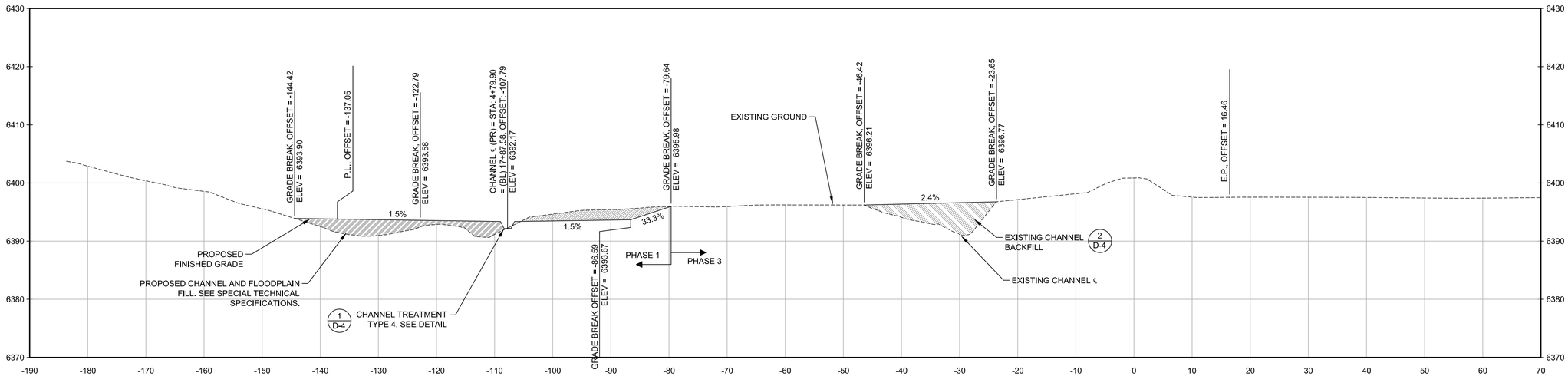
2. STATION ZERO REFERS TO THE BASELINE CONSTRUCTION ALIGNMENT POSITIVE AND NEGATIVE VALUES DENOTE THE DISTANCE FORM THIS ALIGNMENT LOOKING DOWNSTREAM.
3. REFERENCE REVEGETATION SHEETS R-1 THROUGH R-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR SURFACE TREATMENT OUTSIDE OF CHANNEL AREA AS SHOWN ON CHANNEL TREATMENT DETAILS 1/D-3, 2/D-3, 3/D-3, & 1/D-4.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL 2/D-4 FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS 1/D-3, 2/D-3, 3/D-3, AND 1/D-4 AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL 2/D-4) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

(BL) 17+87.58 = STA: (PR) 4+79.90



LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS

MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

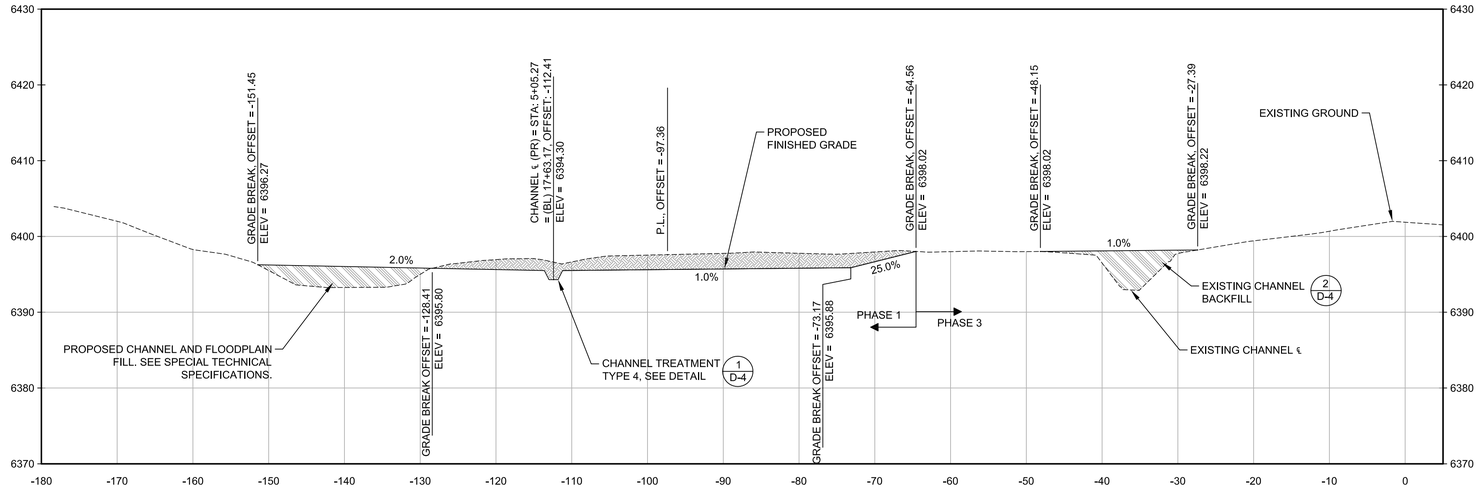
CROSS SECTIONS

STATION: BL-18+08 & BL-17+87

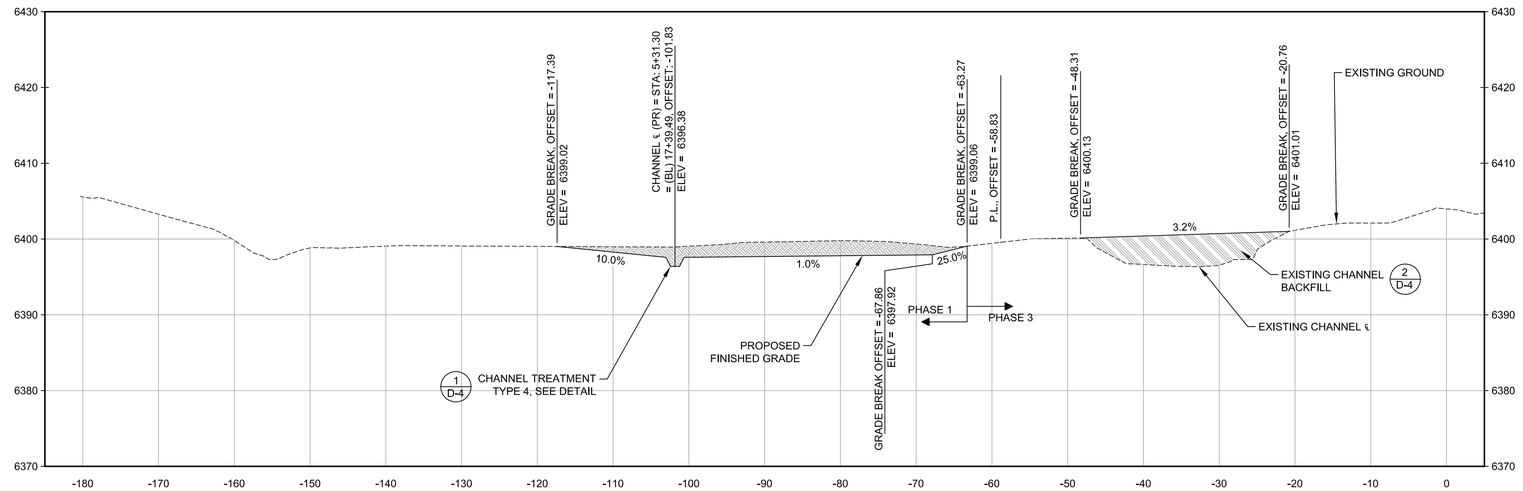
DATE
6/2012

SHEET XS-5

(BL) 17+63.17 = STA: (PR) 5+05.27



(BL) 17+39.49 = STA: (PR) 5+31.30



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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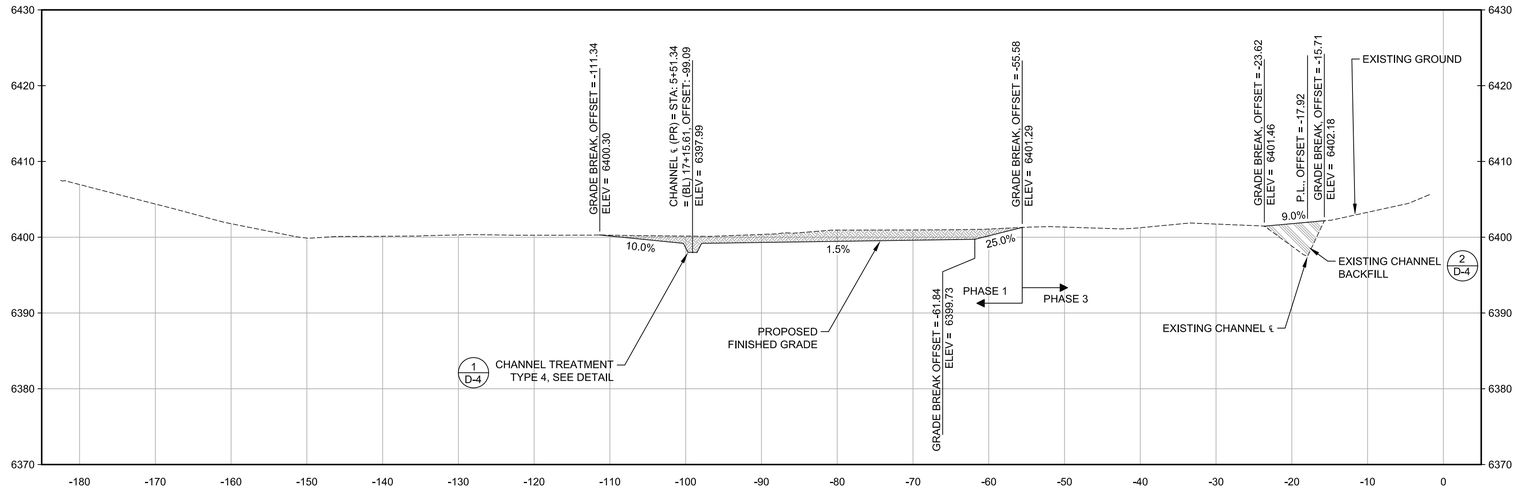
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-17+63 & BL-17+39

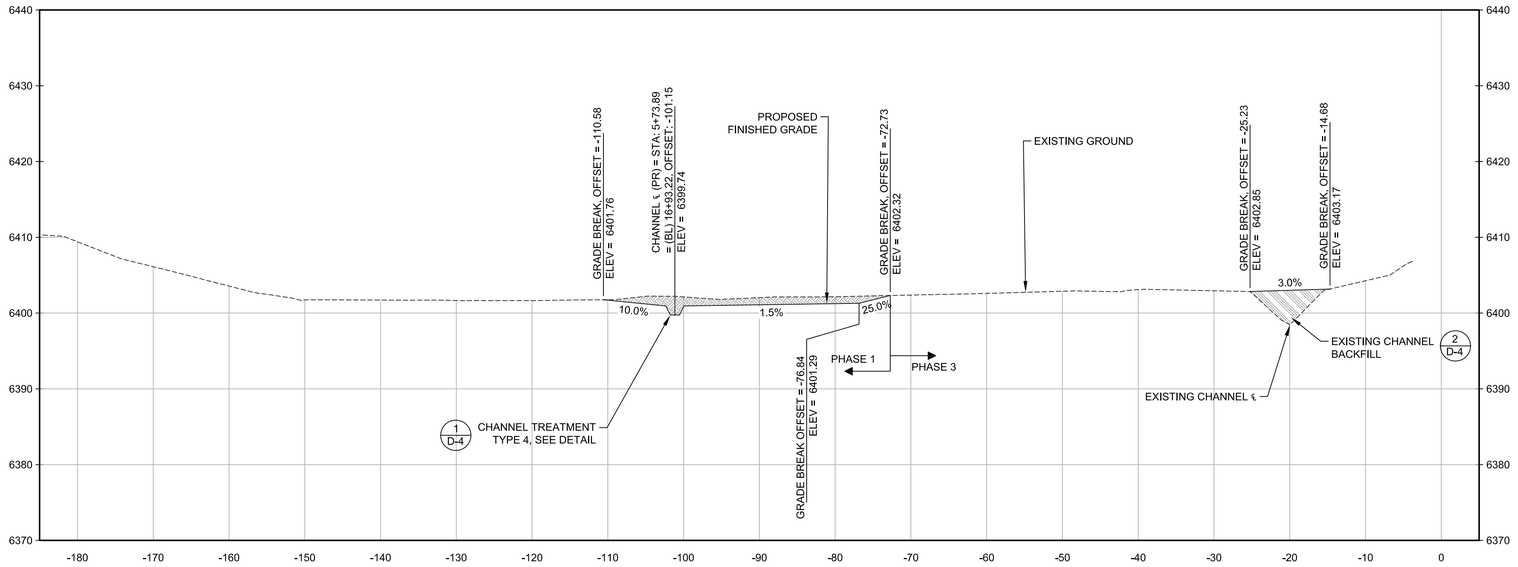
DATE
6/2012

SHEET XS-6

(BL) 17+15.61 = STA: (PR) 5+51.34



(BL) 16+93.22 = STA: (PR) 5+73.89



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

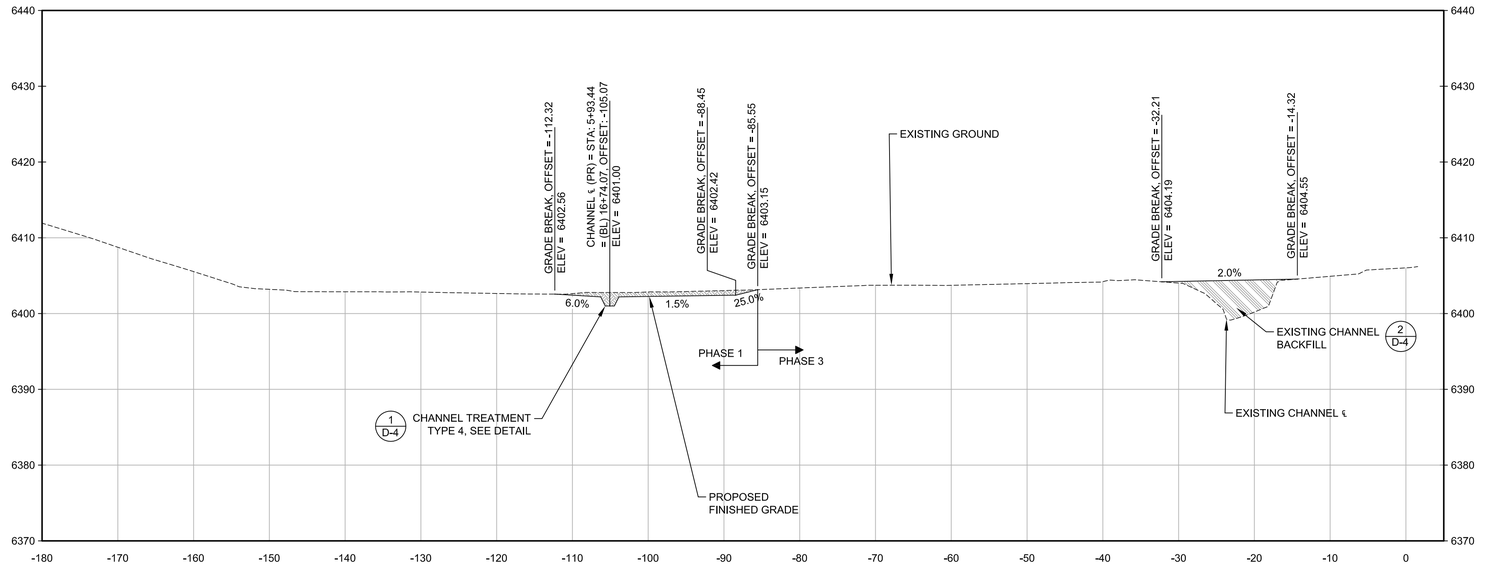
CROSS SECTIONS

STATION: BL-17+15 & BL-16+93

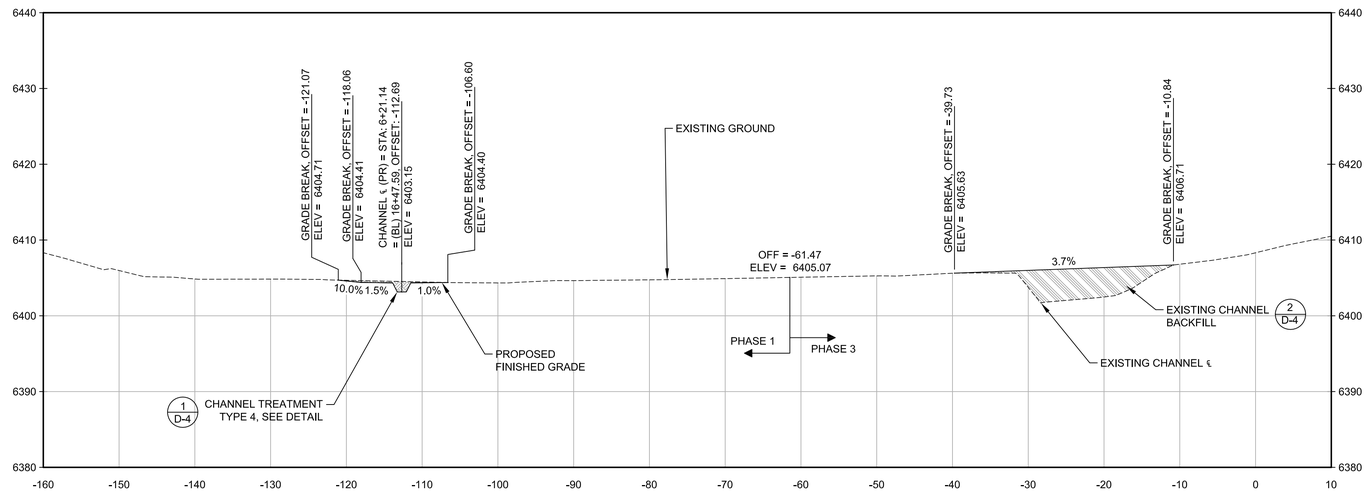
DATE
6/2012

SHEET XS-7

(BL) 16+74.07 = STA: (PR) 5+93.44



(BL) 16+47.59 = STA: (PR) 6+21.14



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
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No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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(775) 775-9069 Main

Valley & Mountain Consulting

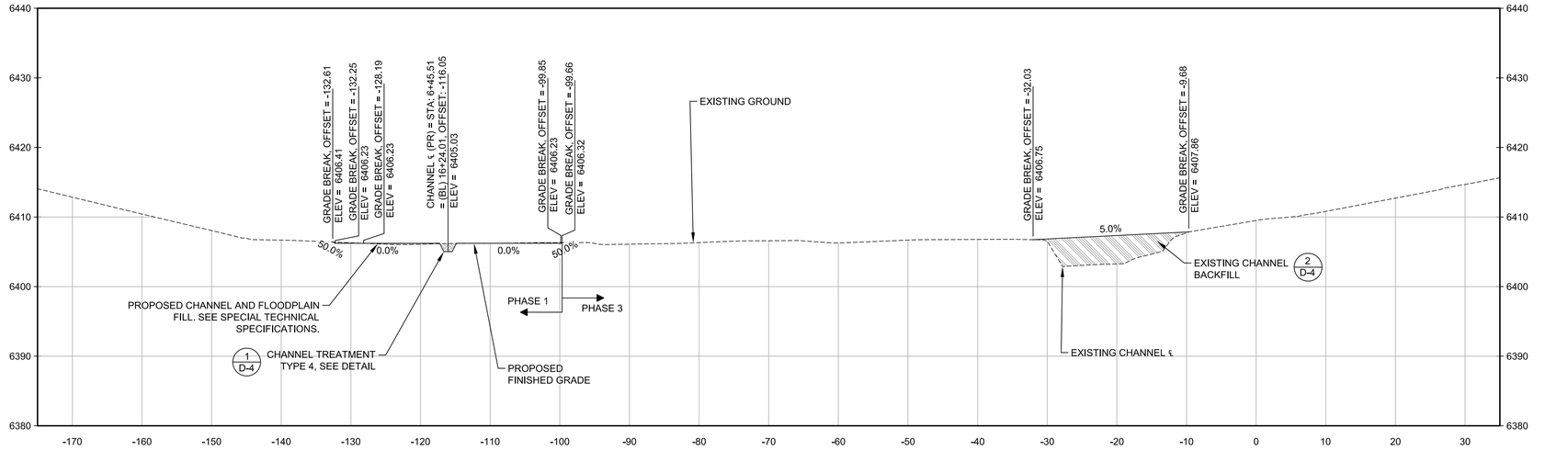
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-16+74 & BL-16+47

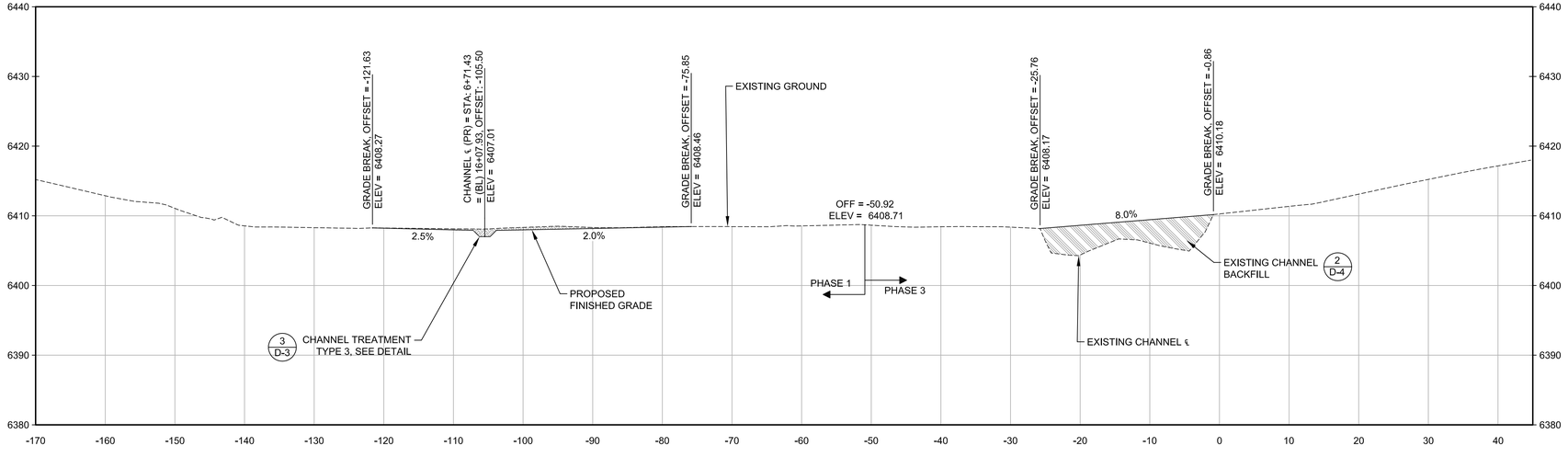
DATE
6/2012

SHEET XS-8

(BL) 16+24.01 = STA: (PR) 6+45.51



(BL) 16+07.93 = STA: (PR) 6+71.43



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL 2 D-4 FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

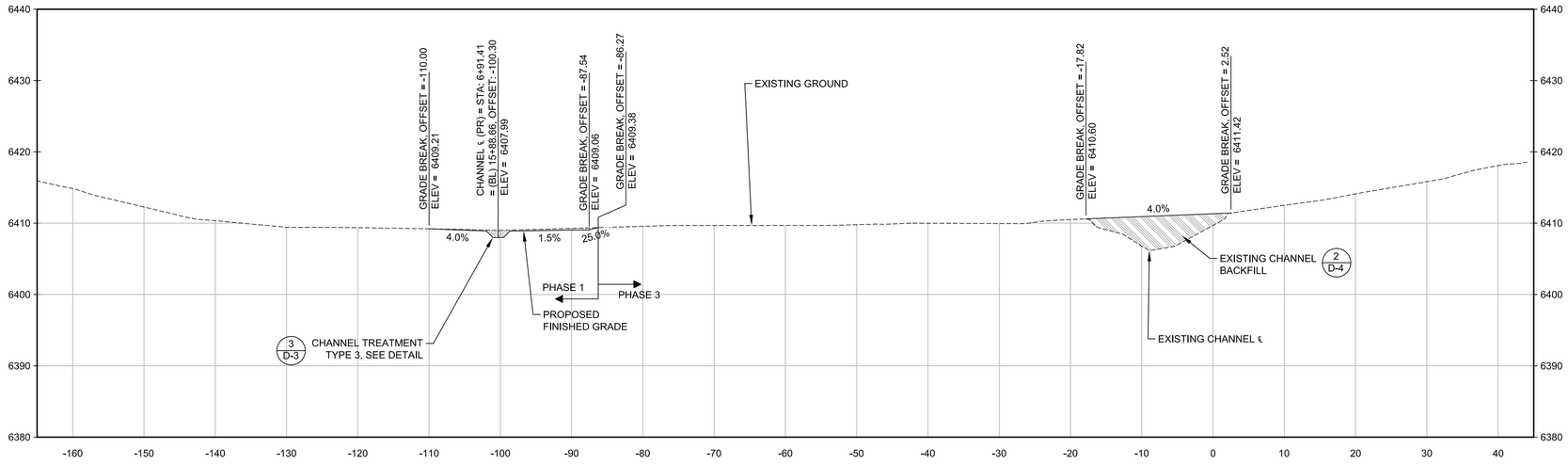
CROSS SECTIONS

STATION: BL-16+24 & BL-16+07

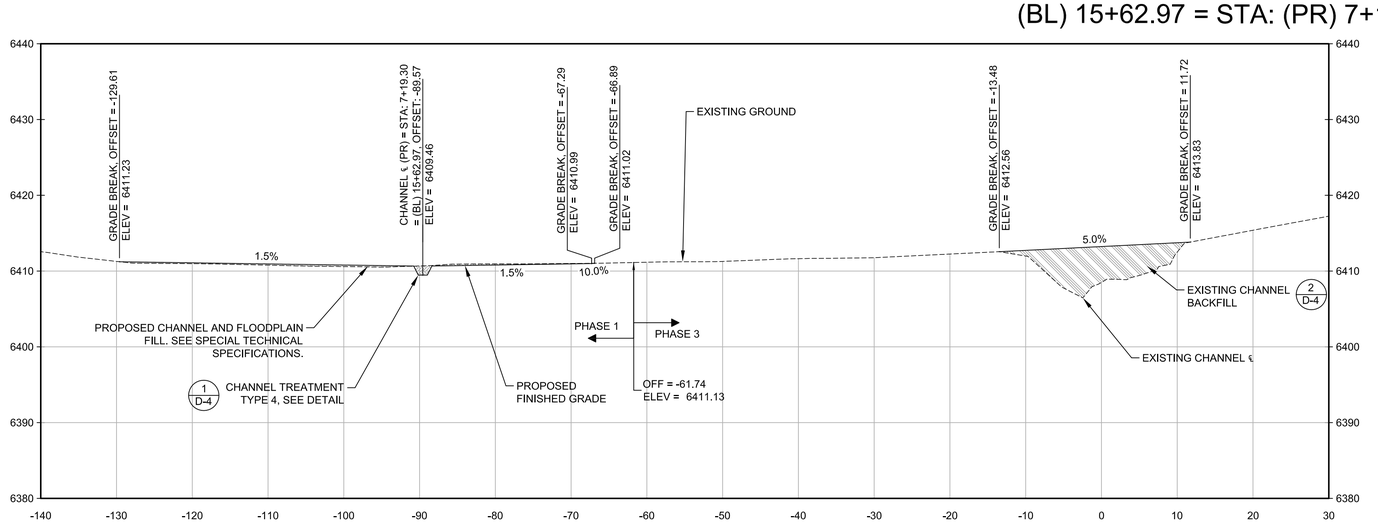
DATE
6/2012

SHEET XS-9

(BL) 15+88.66 = STA: (PR) 6+91.41



(BL) 15+62.97 = STA: (PR) 7+19.30



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS

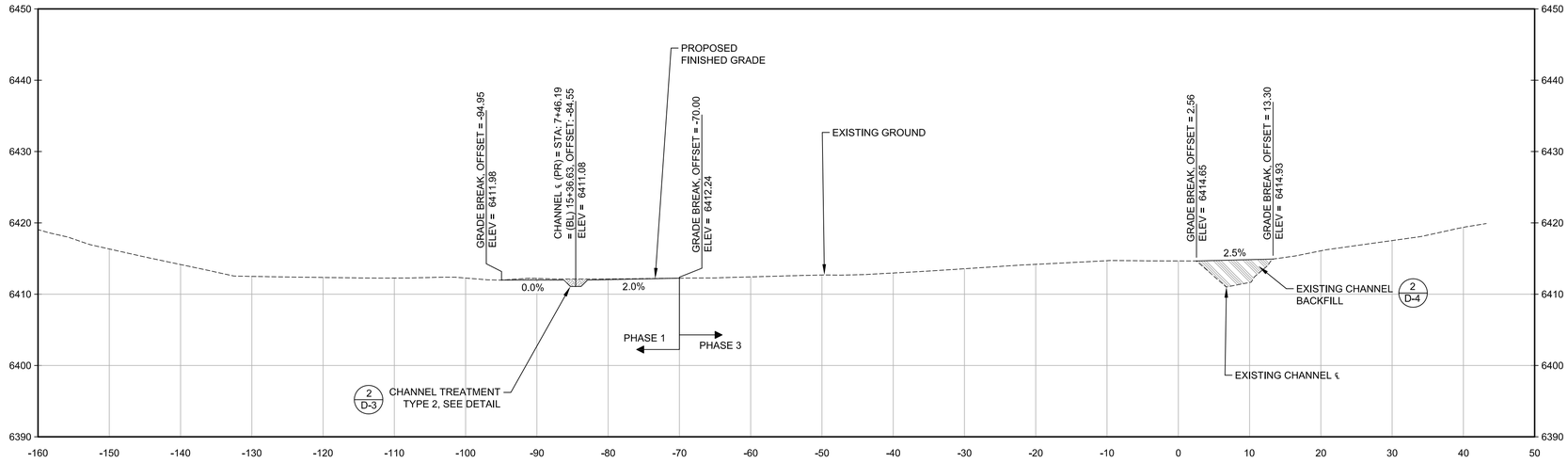
STATION: BL-15+88 & BL-15+62

DATE
6/2012

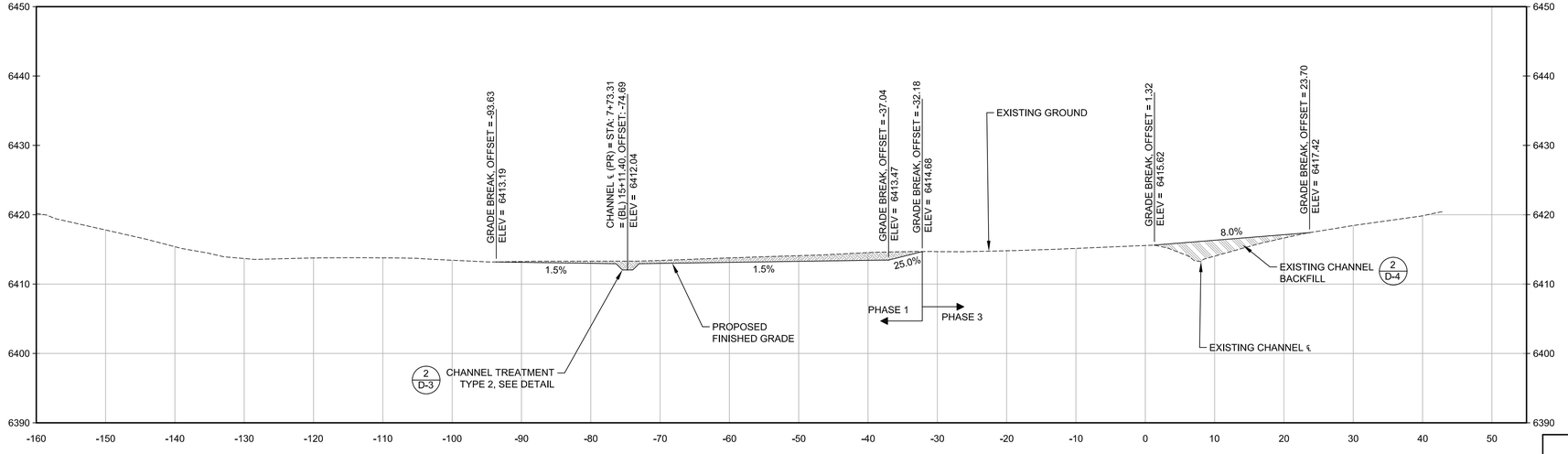
SHEET XS-10

SHEET 35 OF 134

(BL) 15+36.63 = STA: (PR) 7+46.19



(BL) 15+11.40 = STA: (PR) 7+73.31



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

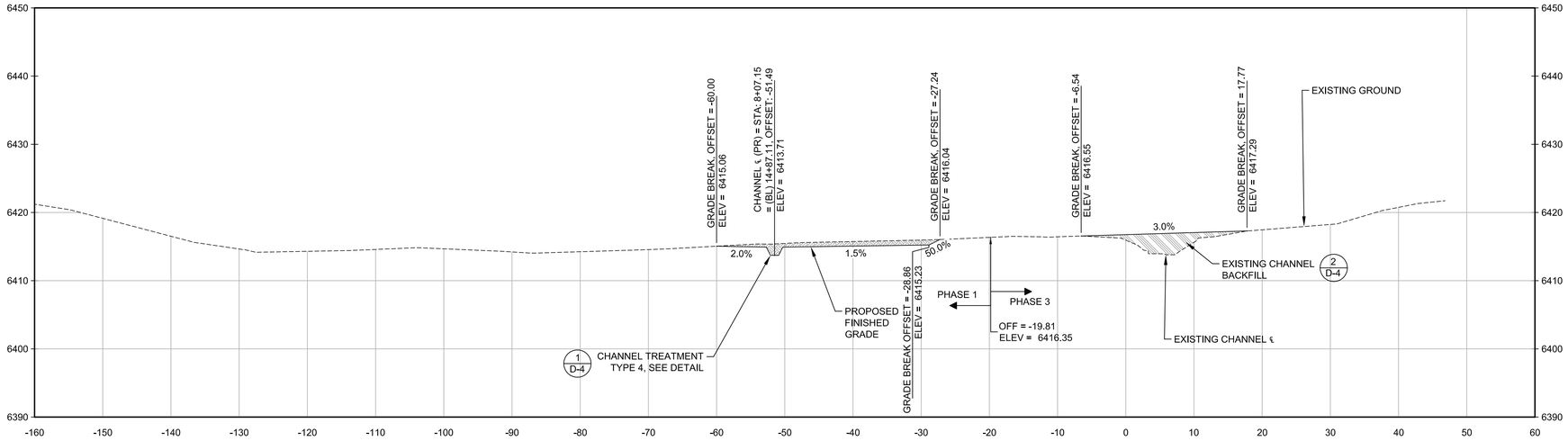
CROSS SECTIONS

STATION: BL-15+36 & BL-15+11

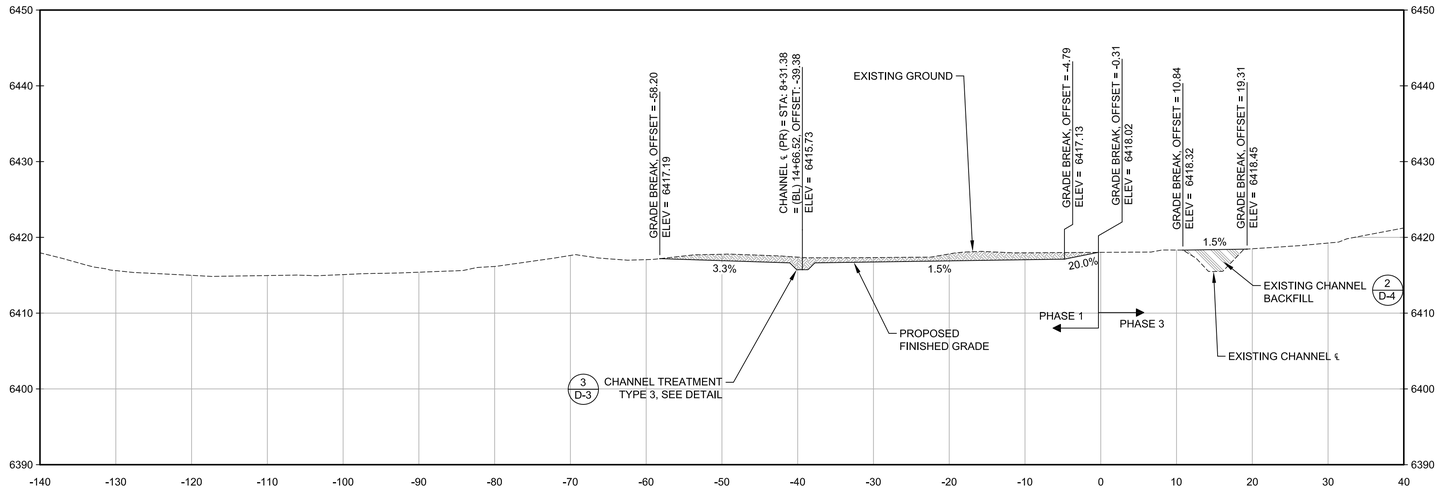
DATE
6/2012

SHEET XS-11

(BL) 14+87.11 = STA: (PR) 8+07.15



(BL) 14+66.52 = STA: (PR) 8+31.38



NOTES:

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3. REFERENCE REVEGETATION SHEETS R-1 THROUGH R-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR SURFACE TREATMENT OUTSIDE OF CHANNEL AREA AS SHOWN ON CHANNEL TREATMENT DETAILS 1/D-3, 2/D-3, 3/D-3, & 1/D-4.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL 2/D-4 FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS 1/D-3, 2/D-3, 3/D-4, AND 1/D-4 AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL 2/D-4) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

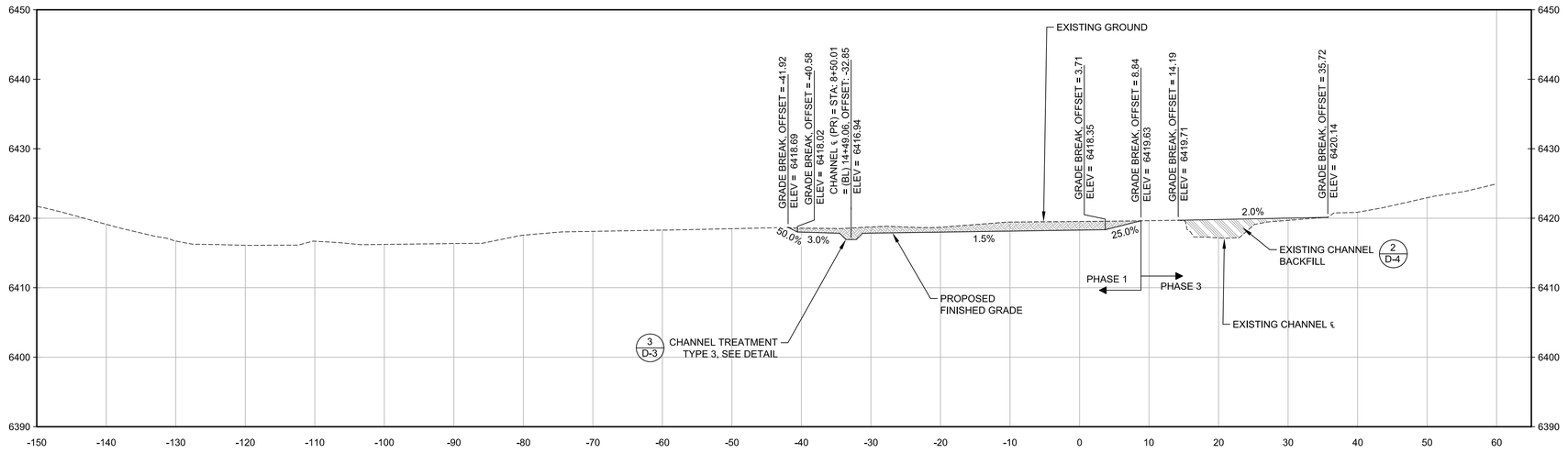
CROSS SECTIONS

STATION: BL-14+87 & BL-14+66

DATE
6/2012

SHEET XS-12

(BL) 14+49.06 = STA: (PR) 8+50.01



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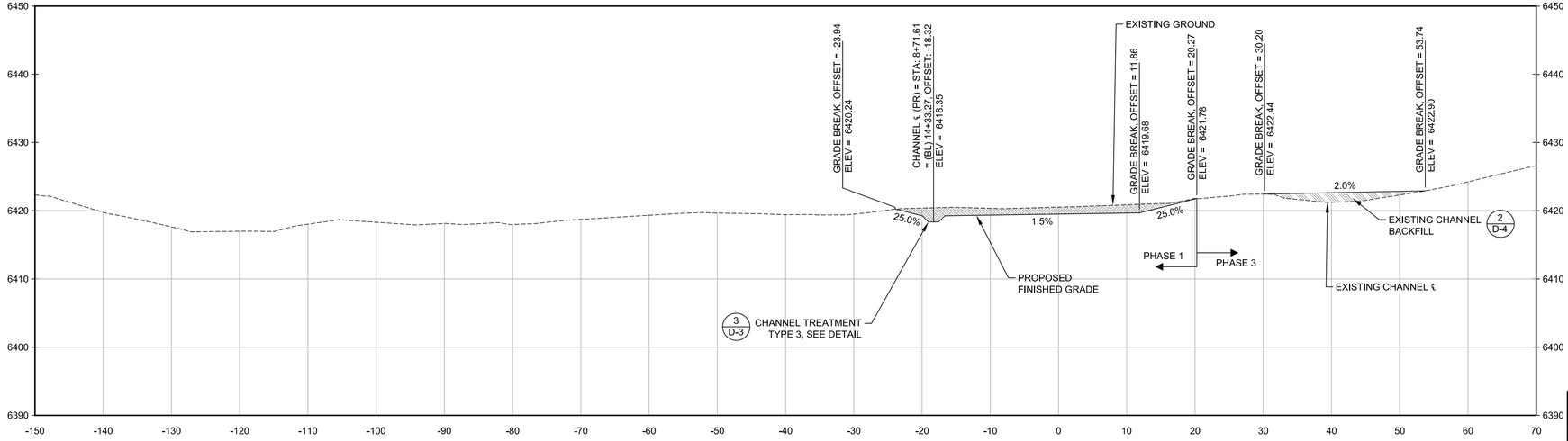

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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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No. 16993

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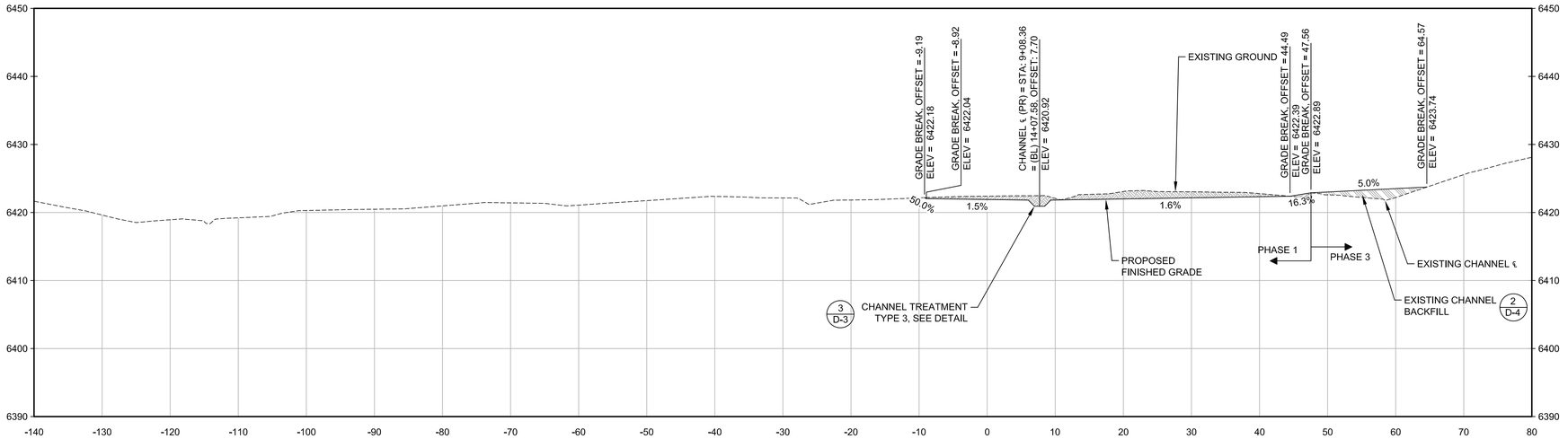
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-14+49 & BL-14+33

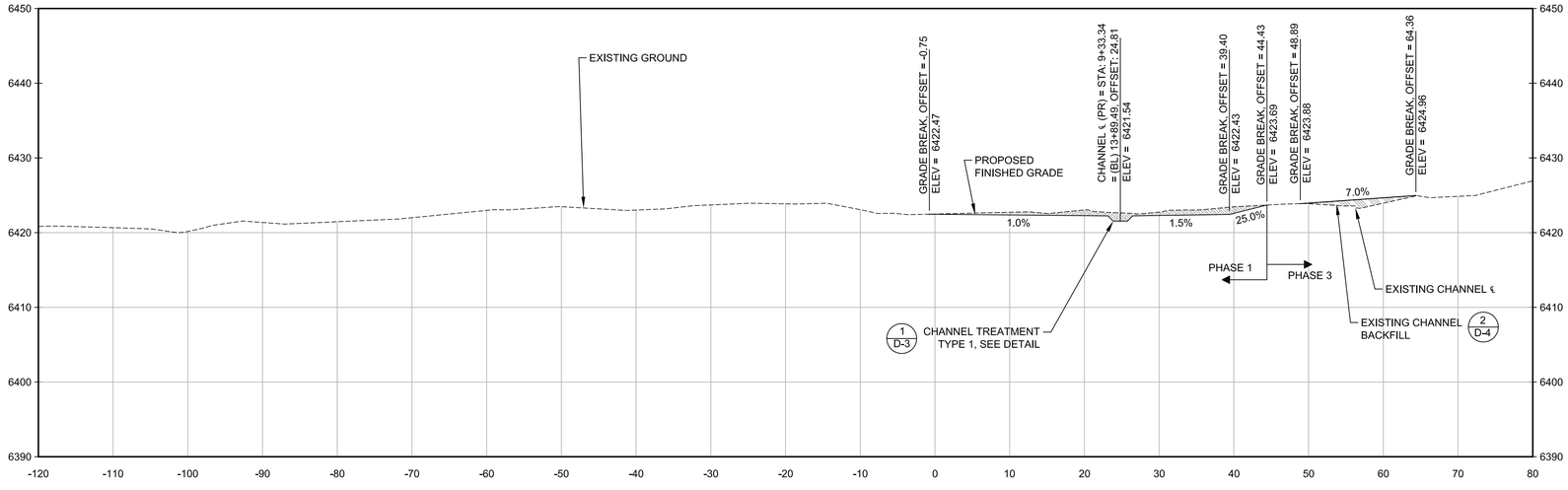
DATE
6/2012

SHEET XS-13

(BL) 14+07.58 = STA: (PR) 9+08.36



(BL) 13+89.49 = STA: (PR) 9+33.34



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
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VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

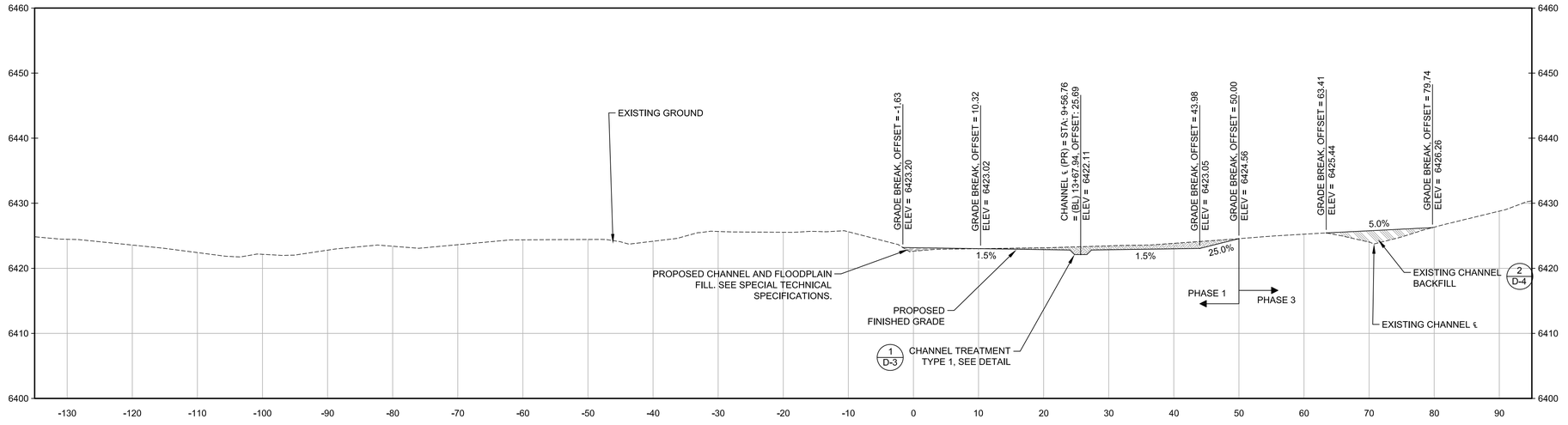
CROSS SECTIONS

STATION: BL-14+07 & BL-13+89

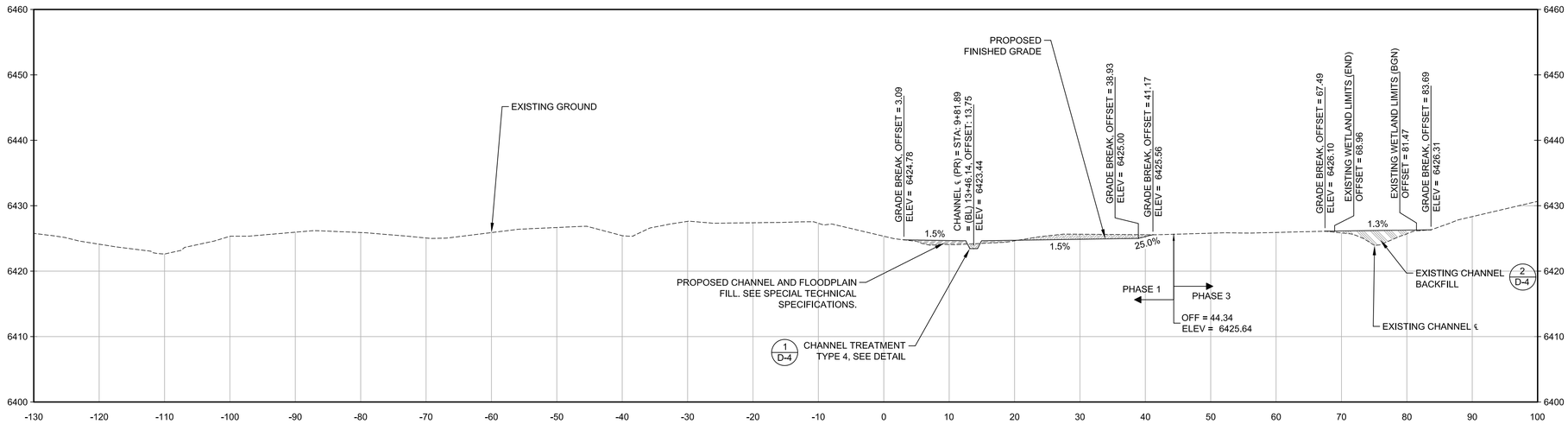
DATE
6/2012

SHEET XS-14

(BL) 13+67.94 = STA: (PR) 9+56.76



(BL) 13+46.14 = STA: (PR) 9+81.89



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS

MARK	DATE	BY

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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CIVIL
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SEAL OF WASHOE COUNTY
STATE OF NEVADA

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

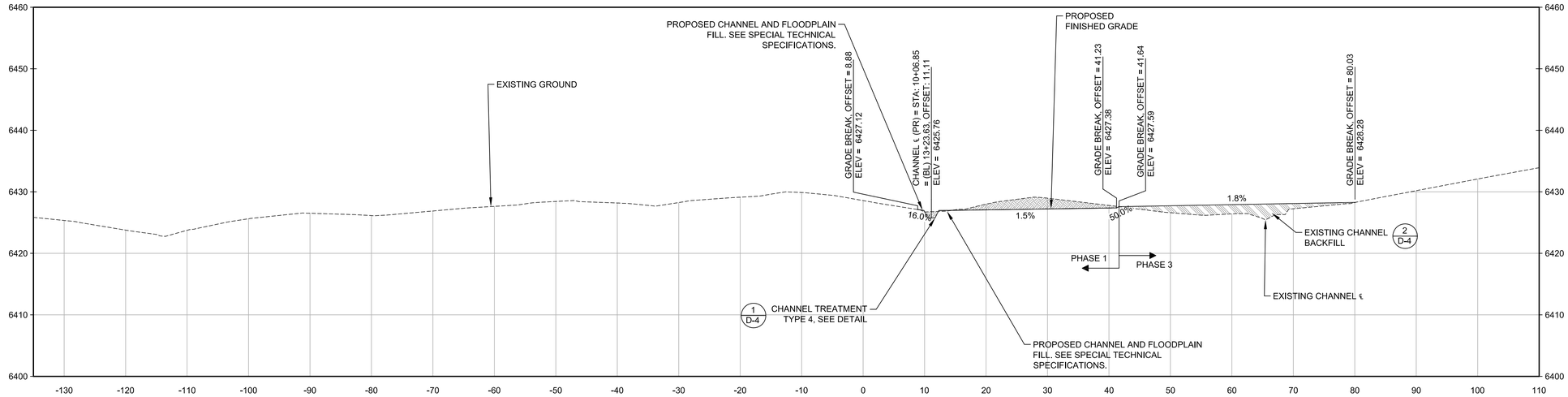
CROSS SECTIONS

STATION: BL-13+67 & BL-13+46

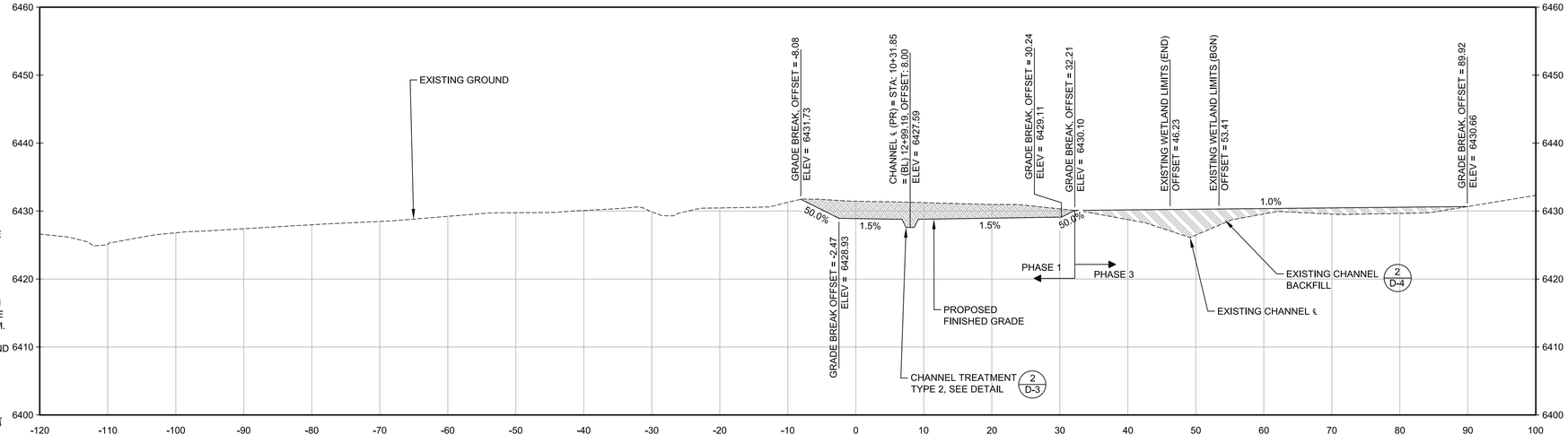
DATE
6/2012

SHEET XS-15

(BL) 13+23.63 = STA: (PR) 10+06.85



(BL) 12+99.19 = STA: (PR) 10+31.85



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS

MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
CHRISTOPHER H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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(775) 775-9069 Main

VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

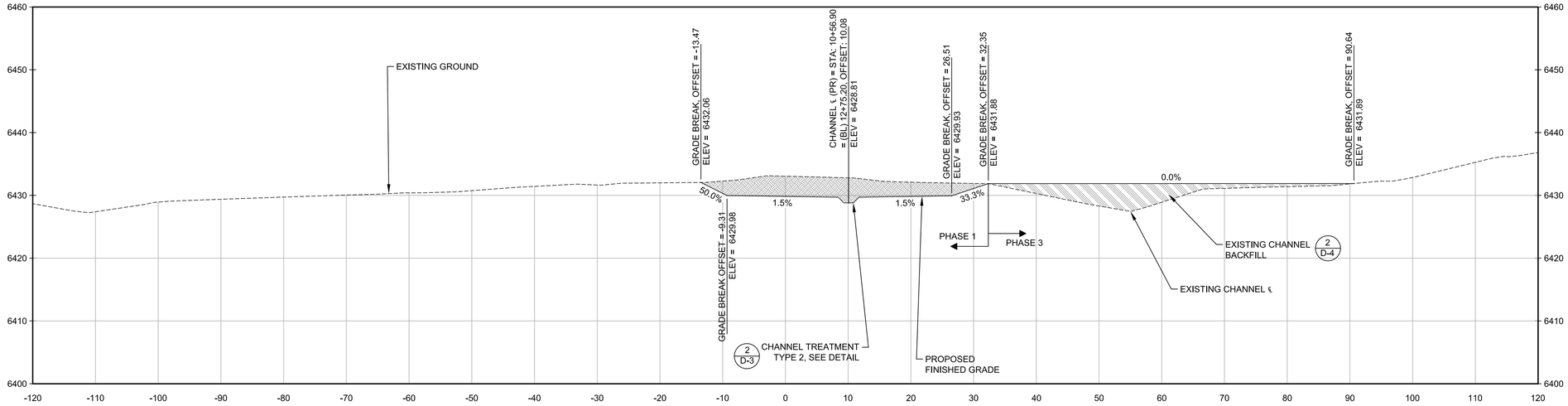
CROSS SECTIONS

STATION: BL-13+23 & BL-12+99

DATE 6/2012

SHEET XS-16

(BL) 12+75.20 = STA: (PR) 10+56.90



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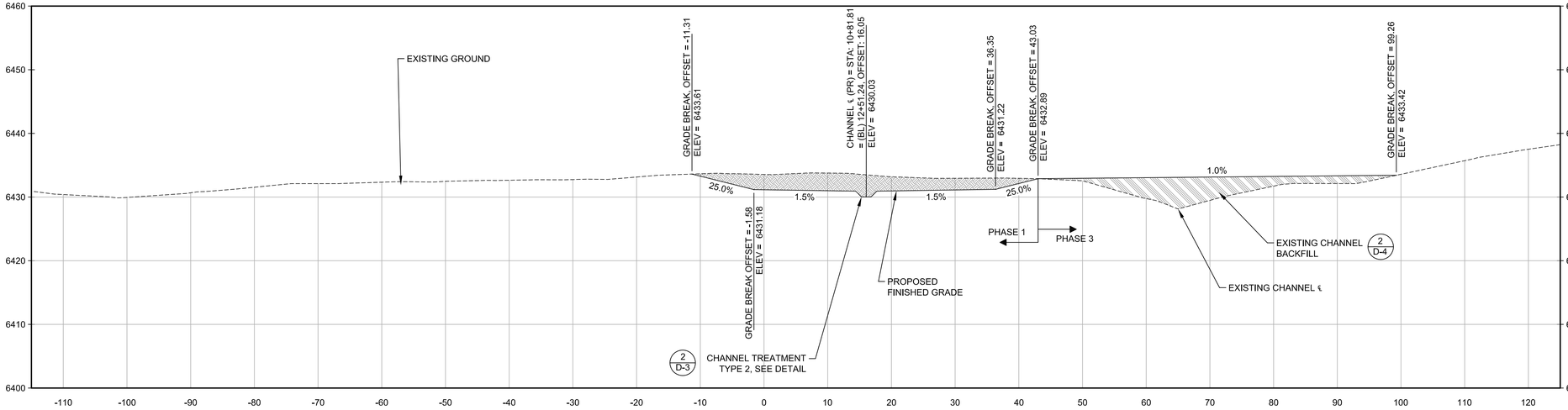

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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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CIVIL
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STATE OF NEVADA

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

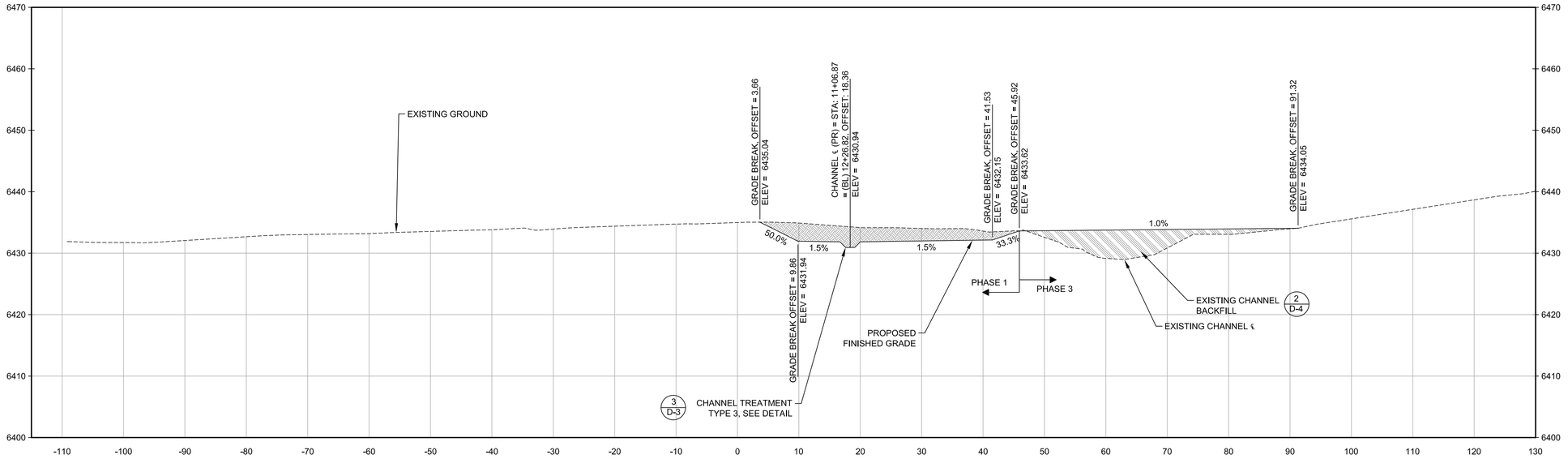
CROSS SECTIONS

STATION: BL-12+75 & BL-12+51

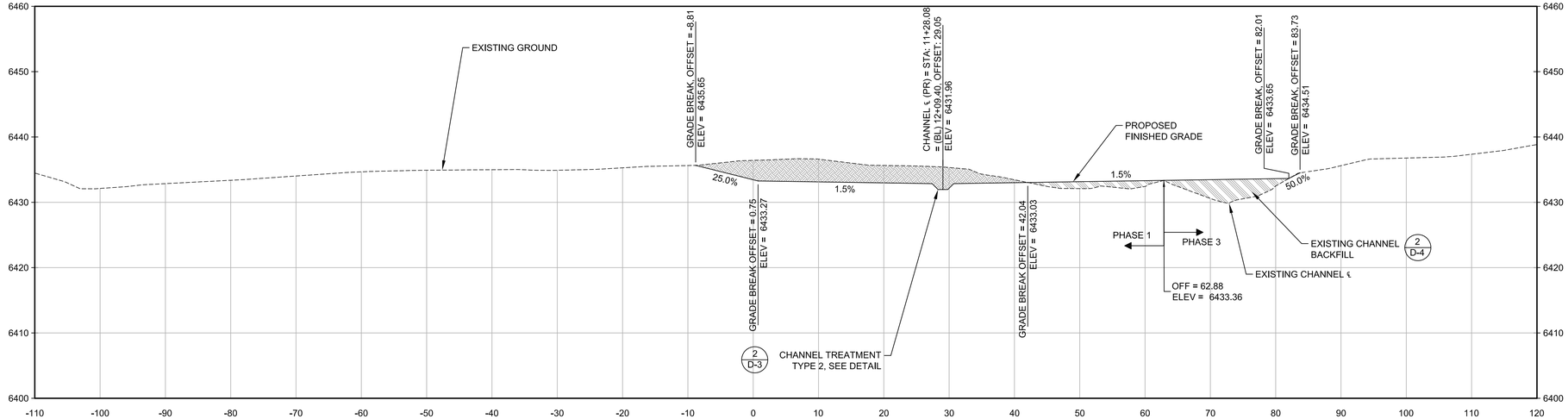
DATE
6/2012

SHEET XS-17

(BL) 12+26.82 = STA: (PR) 11+06.87



(BL) 12+09.40 = STA: (PR) 11+28.08



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
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VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
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STATE OF NEVADA

Nevada Tahoe Conservation District

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

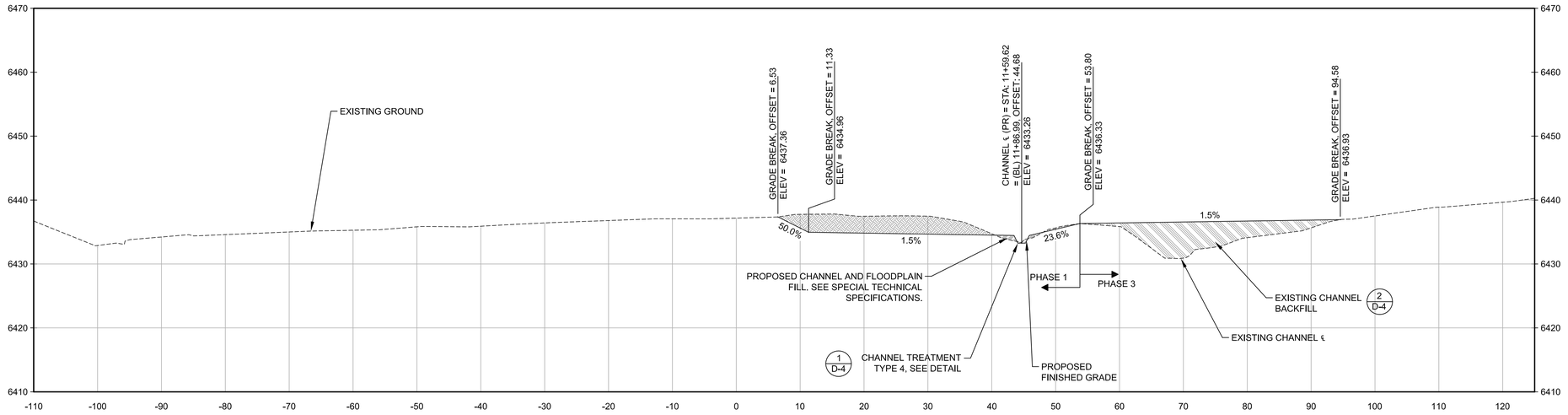
CROSS SECTIONS

STATION: BL-12+26 & BL-12+09

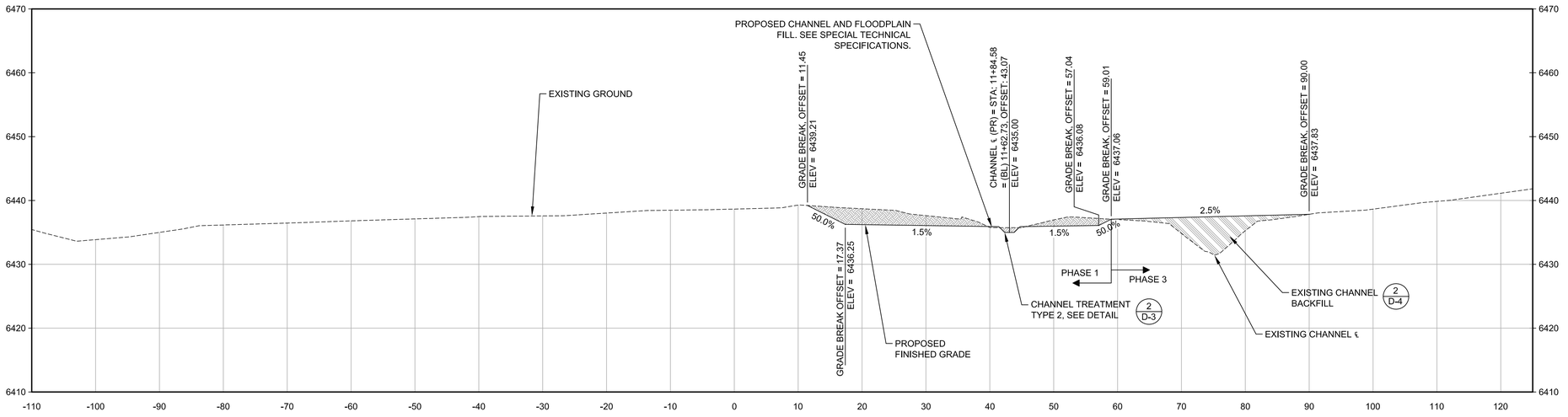
DATE
6/2012

SHEET XS-18

(BL) 11+86.99 = STA: (PR) 11+59.62



(BL) 11+62.73 = STA: (PR) 11+84.58



NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. STATION ZERO REFERS TO THE BASELINE CONSTRUCTION ALIGNMENT POSITIVE AND NEGATIVE VALUES DENOTE THE DISTANCE FORM THIS ALIGNMENT LOOKING DOWNSTREAM.
3. REFERENCE REVEGETATION SHEETS R-1 THROUGH R-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR SURFACE TREATMENT OUTSIDE OF CHANNEL AREA AS SHOWN ON CHANNEL TREATMENT DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}3}$, & $\frac{1}{D\text{-}4}$.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}4}$, AND $\frac{1}{D\text{-}4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D\text{-}4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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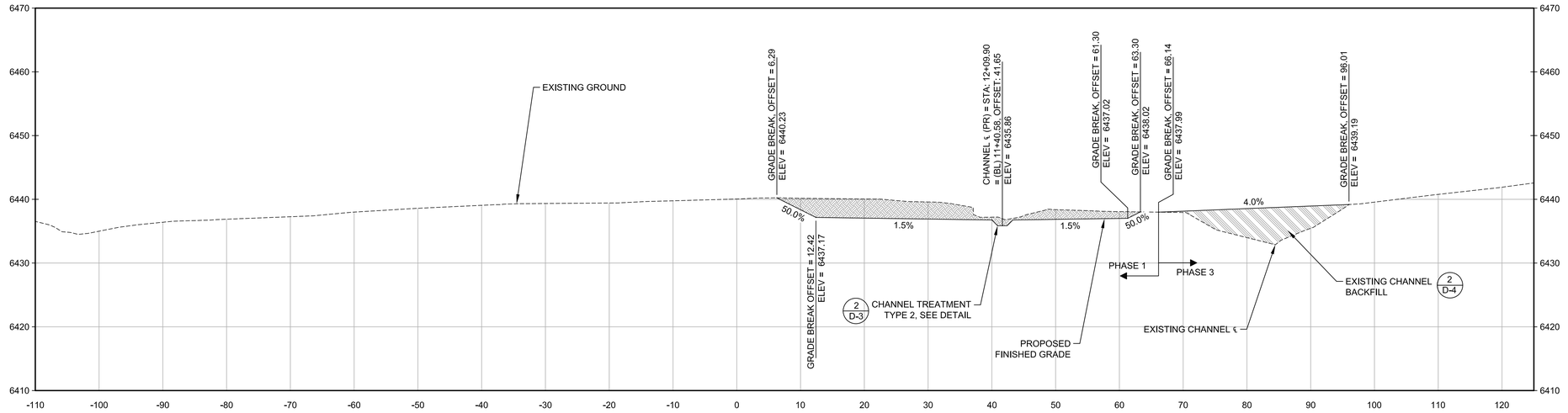
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTIONS
STATION: BL-11+86 & BL-11+62

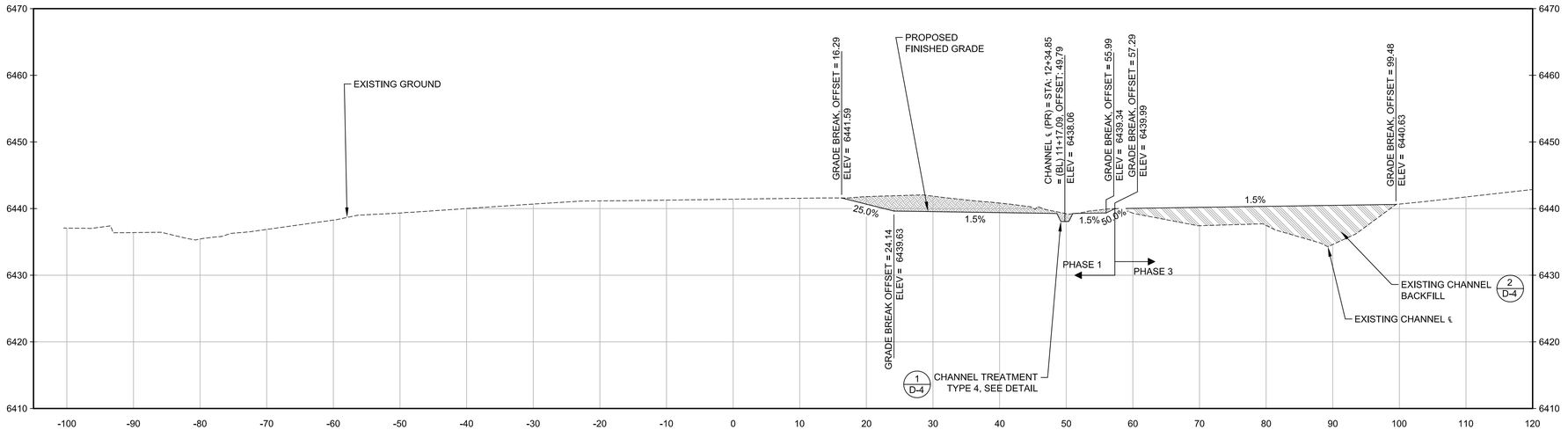
DATE
6/2012

SHEET XS-19

(BL) 11+40.58 = STA: (PR) 12+09.90



(BL) 11+17.09 = STA: (PR) 12+34.85



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL 2/D-4 FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS 1/D-3, 2/D-3, 3/D-3, AND 1/D-4 AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL 2/D-4) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.)..

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
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SEAL OF WASHOE COUNTY
STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS

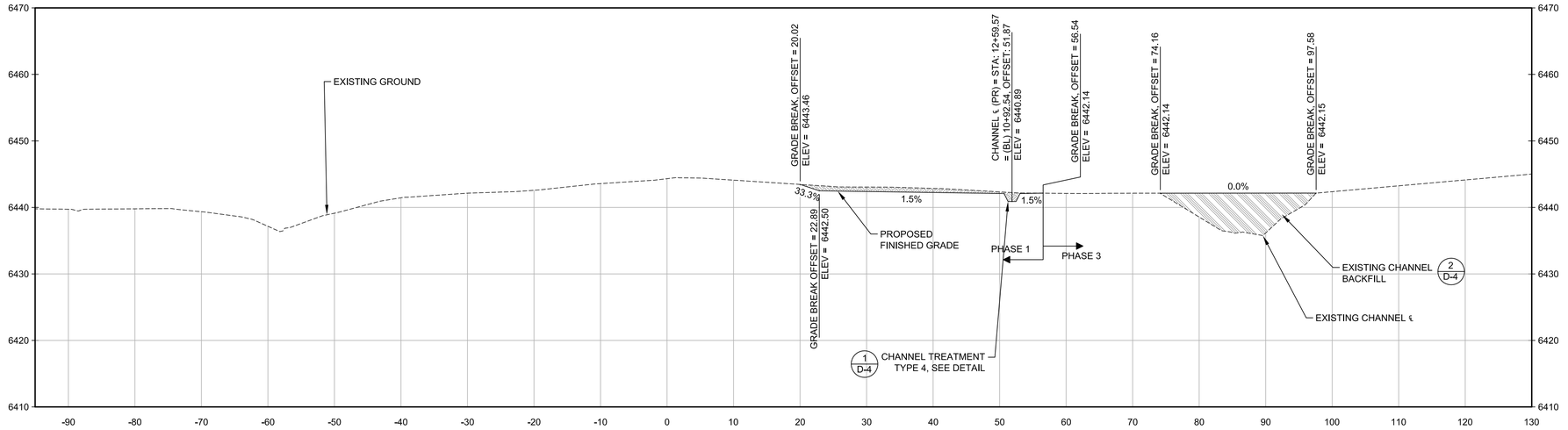
STATION: BL-11+40 & BL-11+17

DATE
6/2012

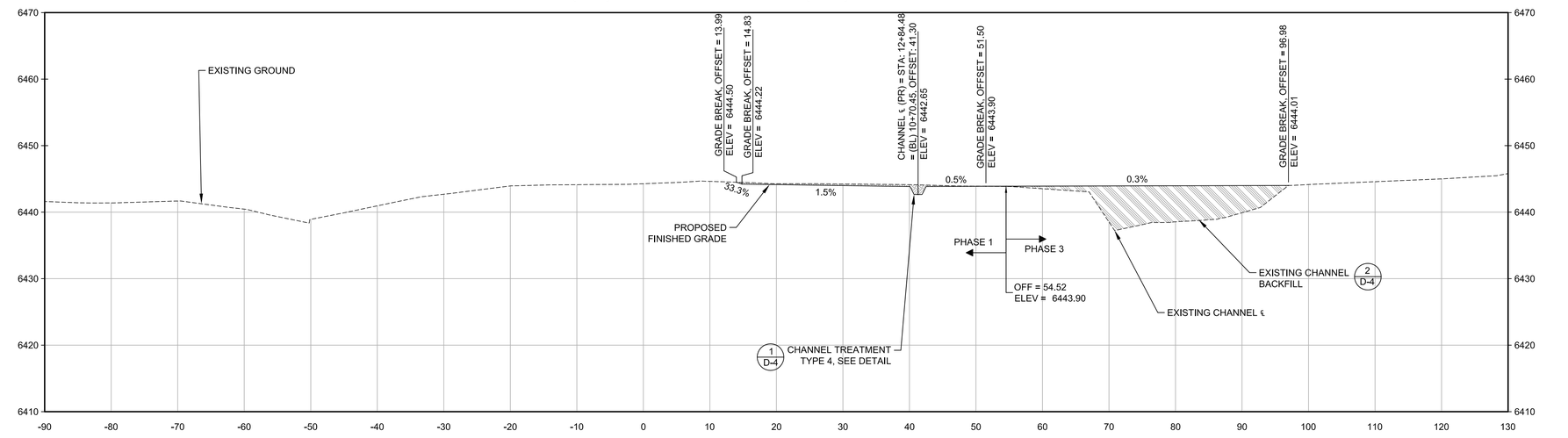
SHEET XS-20

SHEET 45 OF 134

(BL) 10+92.54 = STA: (PR) 12+59.57



(BL) 10+70.45 = STA: (PR) 12+84.48



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

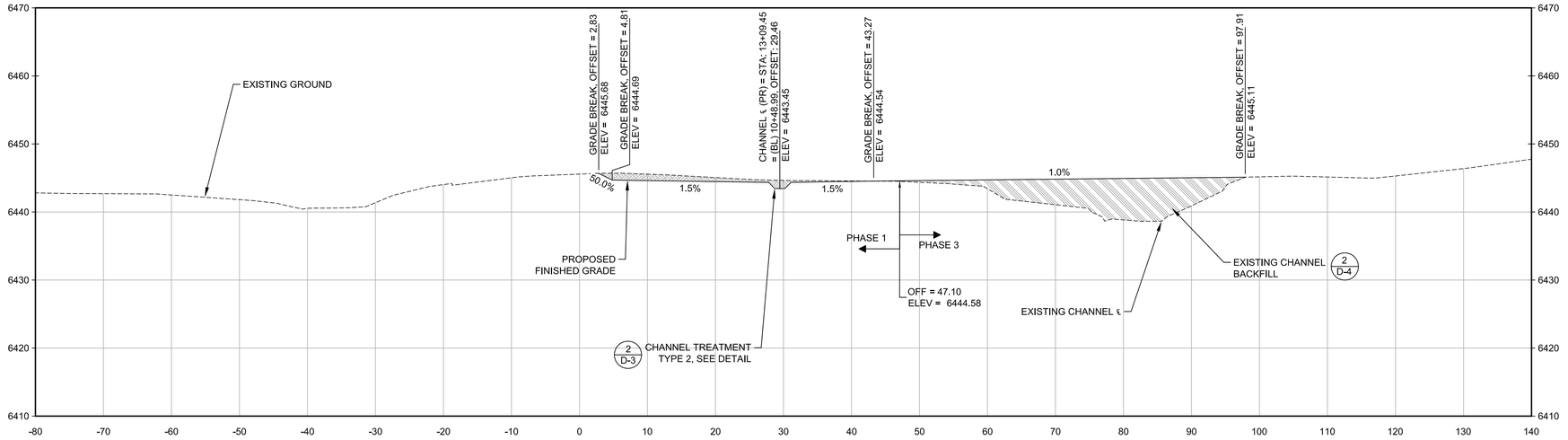
CROSS SECTIONS

STATION: BL-10+92 & BL-10+70

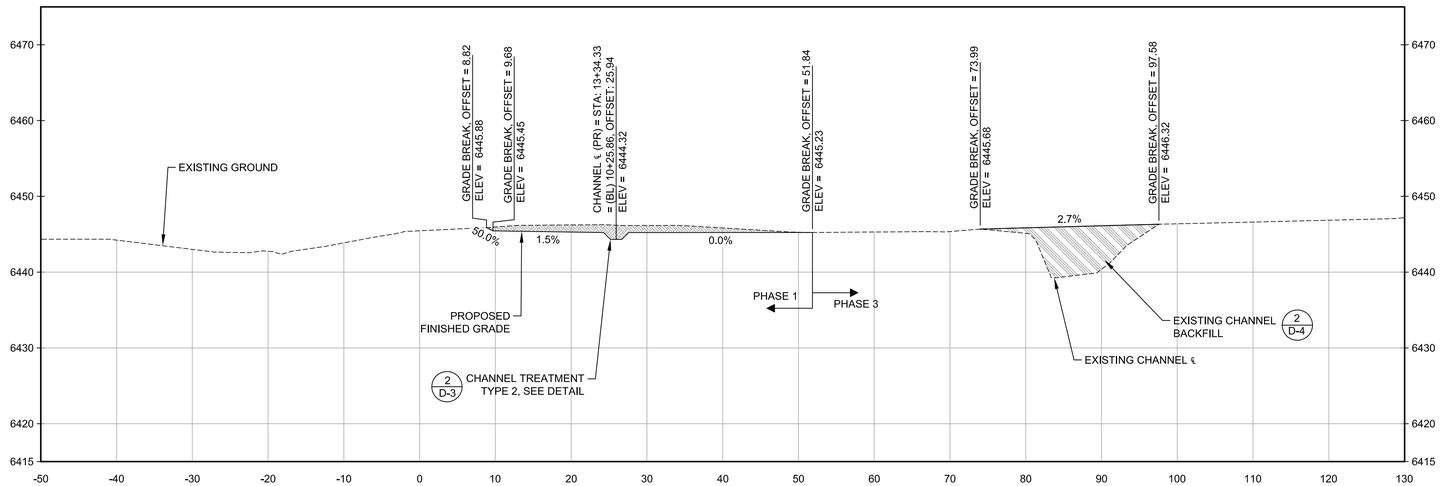
DATE
6/2012

SHEET XS-21

(BL) 10+48.99 = STA: (PR) 13+09.45



(BL) 10+25.86 = STA: (PR) 13+34.33



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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SEAL OF WASHOE COUNTY
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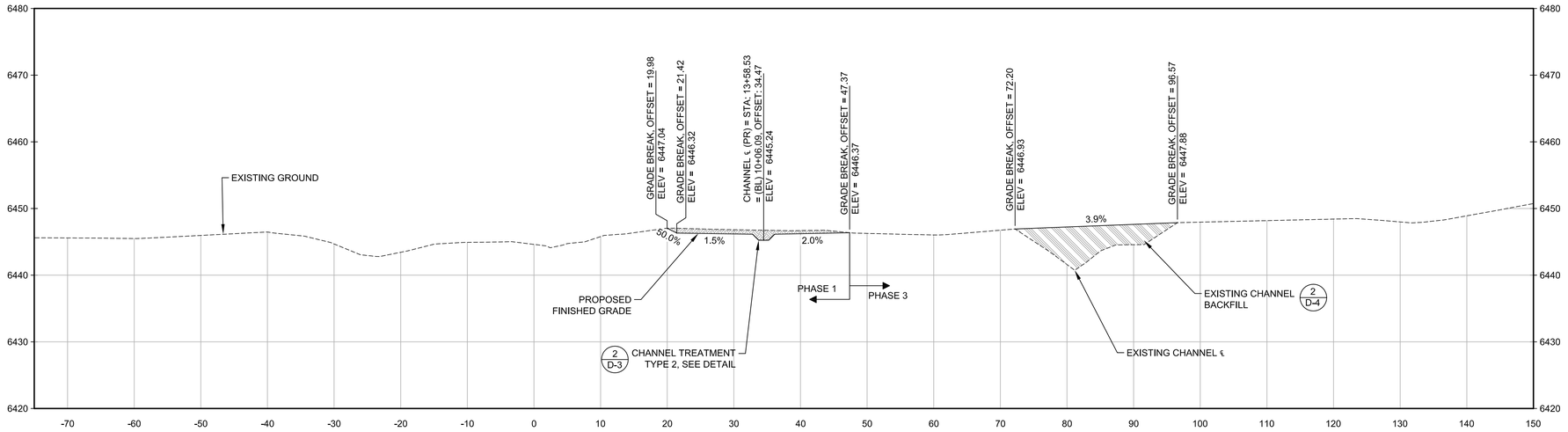
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTIONS
STATION: BL-10+48 & BL-10+25

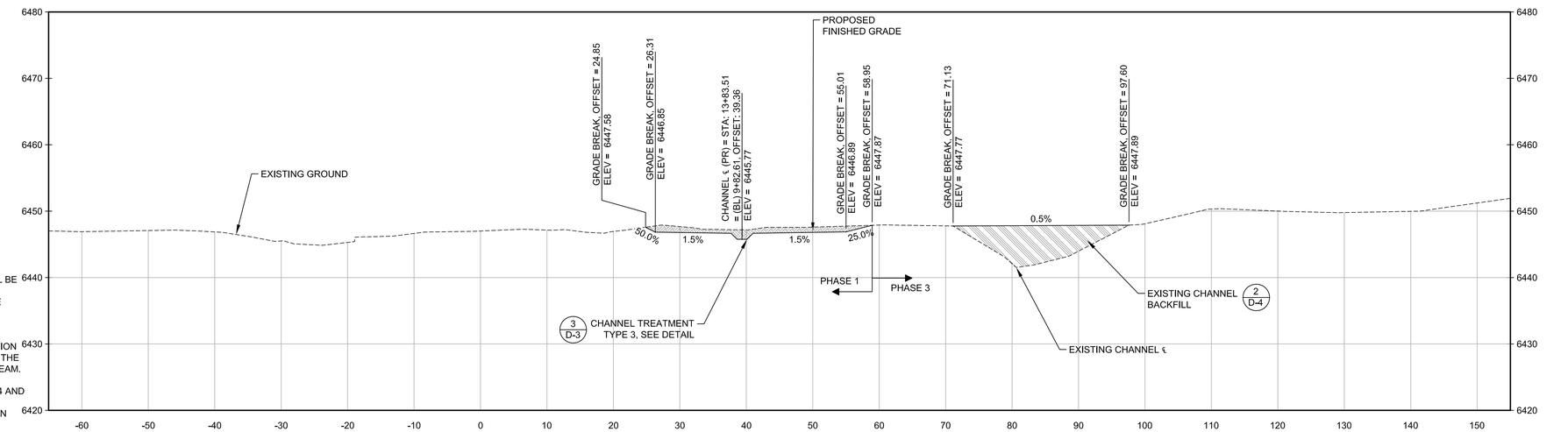
DATE
6/2012

SHEET XS-22

(BL) 10+06.09 = STA: (PR) 13+58.53



(BL) 9+82.61 = STA: (PR) 13+83.51



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}4}$, AND $\frac{1}{D\text{-}4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D\text{-}4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

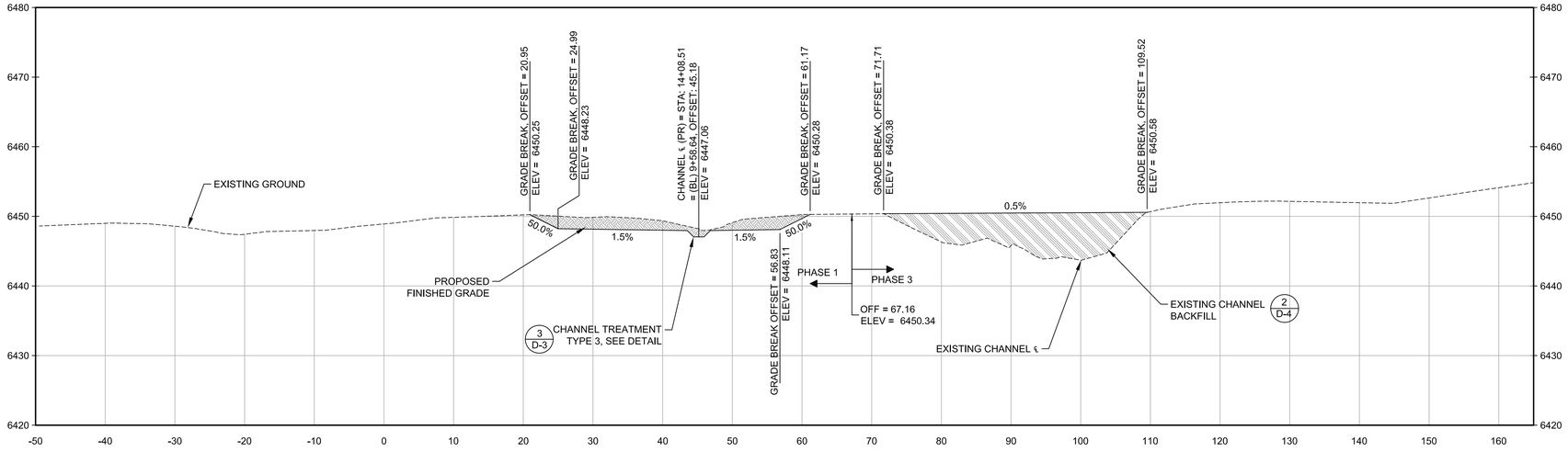
CROSS SECTIONS

STATION: BL-10+05 & BL-9+82

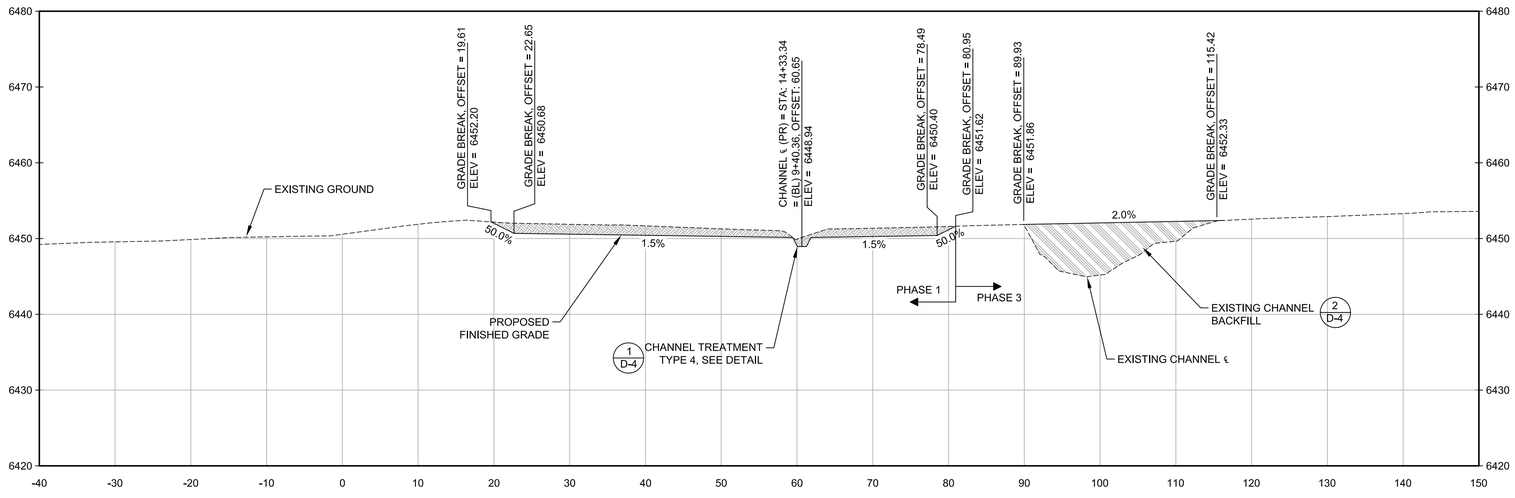
DATE
6/2012

SHEET XS-23

(BL) 9+58.64 = STA: (PR) 14+08.51



(BL) 9+40.36 = STA: (PR) 14+33.34



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5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
No. 16993
Exp. 12/31/13
CIVIL

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

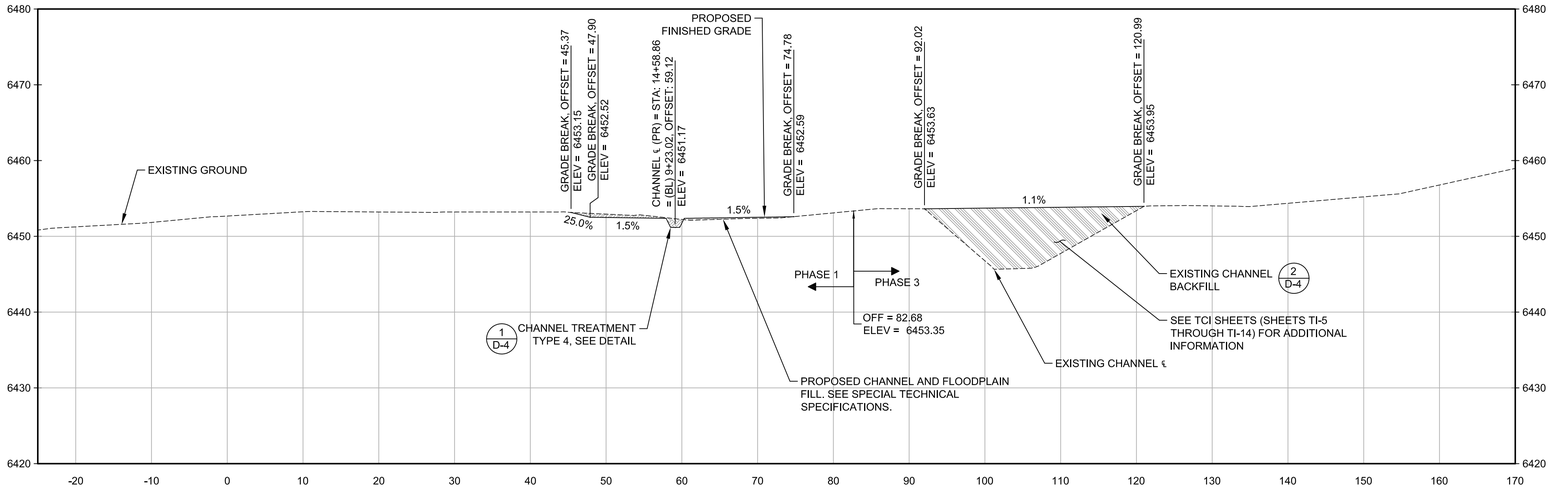
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-9+58 & BL-9+40

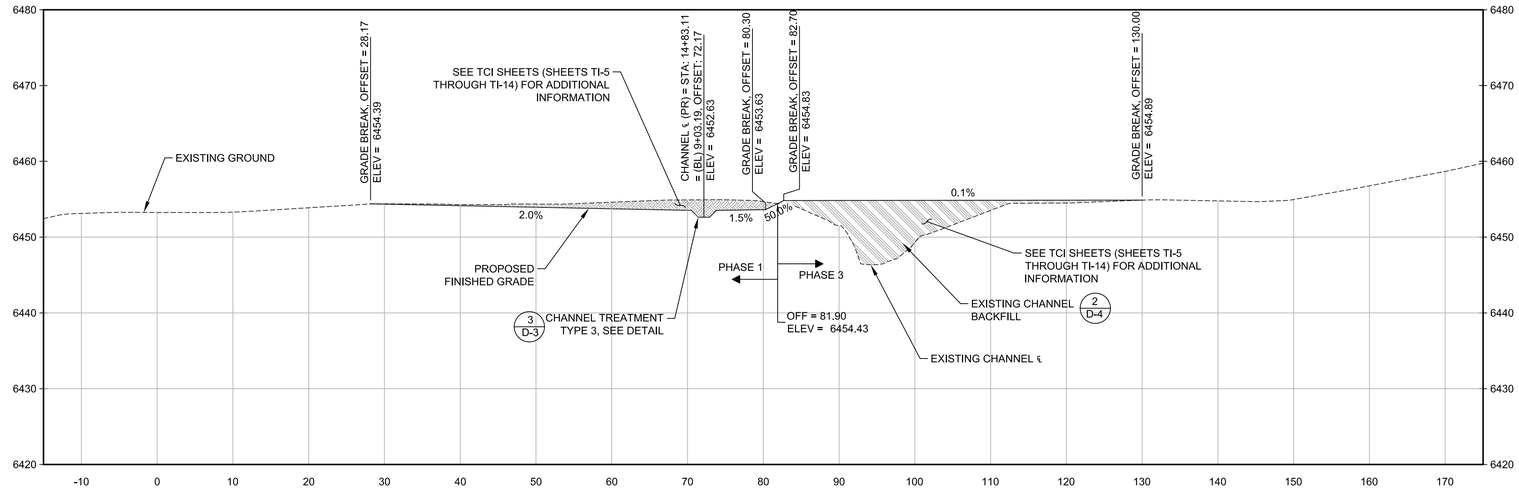
DATE
6/2012

SHEET XS-24

(BL) 9+23.02 = STA: (PR) 14+58.86



(BL) 9+03.19 = STA: (PR) 14+83.11



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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Exp. 12/31/13
CIVIL

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STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

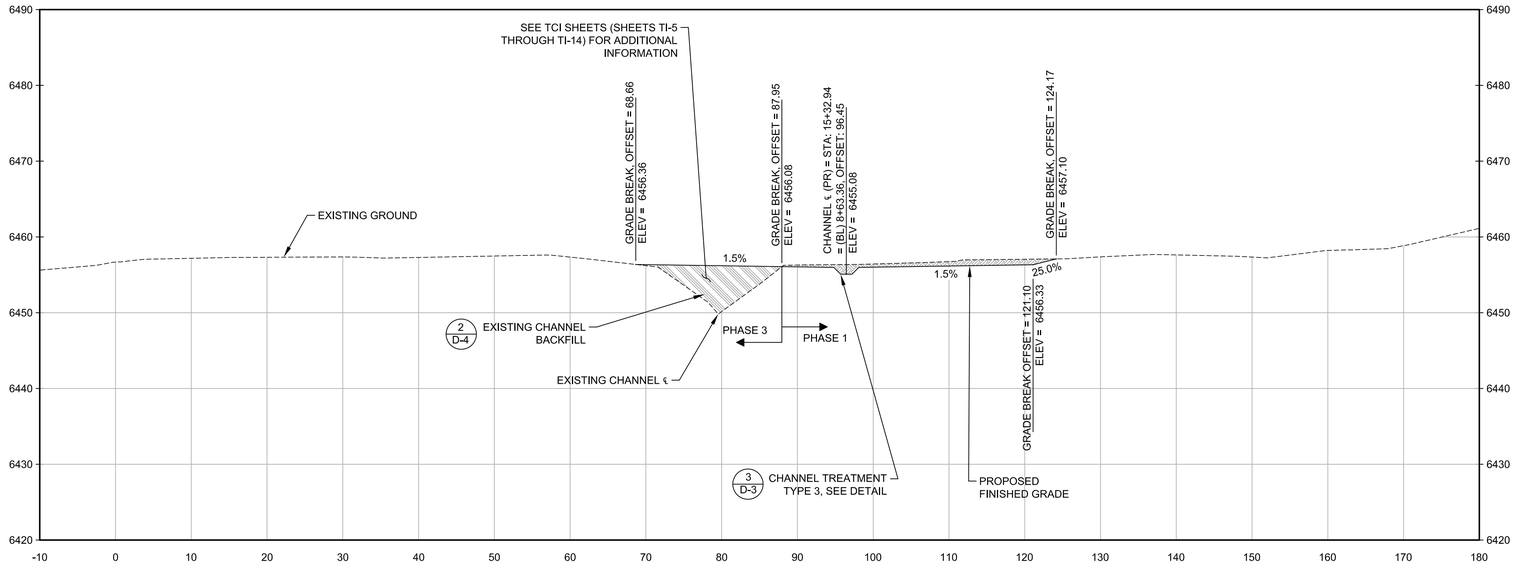
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-9+23 & BL-9+03

DATE
6/2012

SHEET XS-25

(BL) 8+63.36 = STA: (PR) 15+32.94



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D-4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D-3}$, $\frac{2}{D-3}$, $\frac{3}{D-3}$, AND $\frac{1}{D-4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D-4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL. COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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(775) 775-9069 Main

Valley & Mountain Consulting

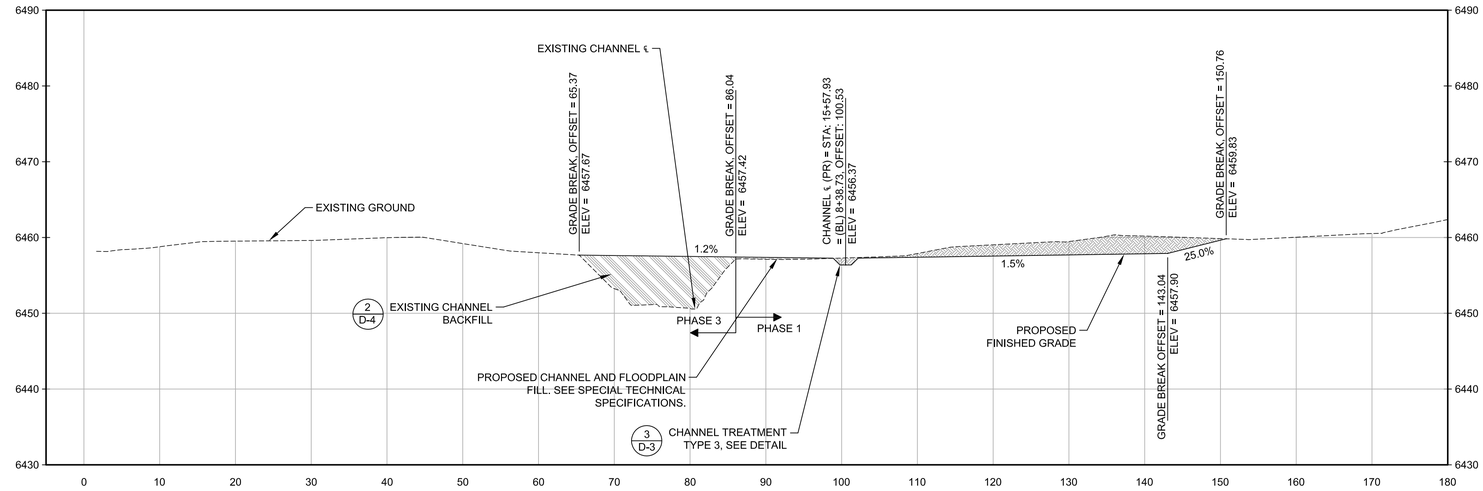
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-8+63

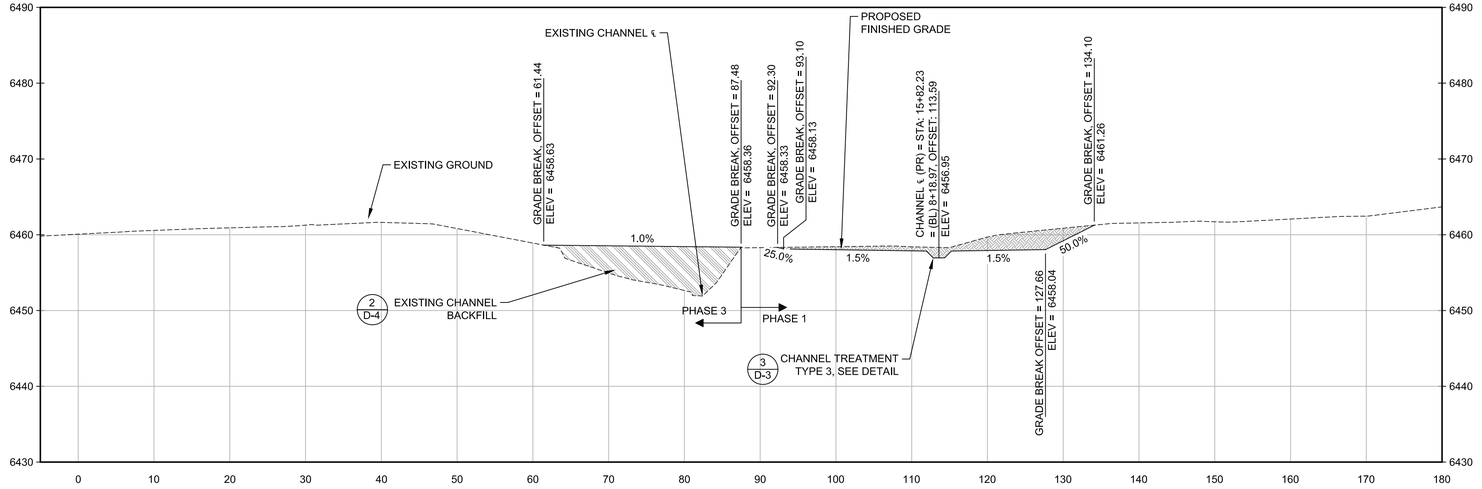
DATE
6/2012

SHEET XS-26

(BL) 8+38.73 = STA: (PR) 15+57.93



(BL) 8+18.97 = STA: (PR) 15+82.23



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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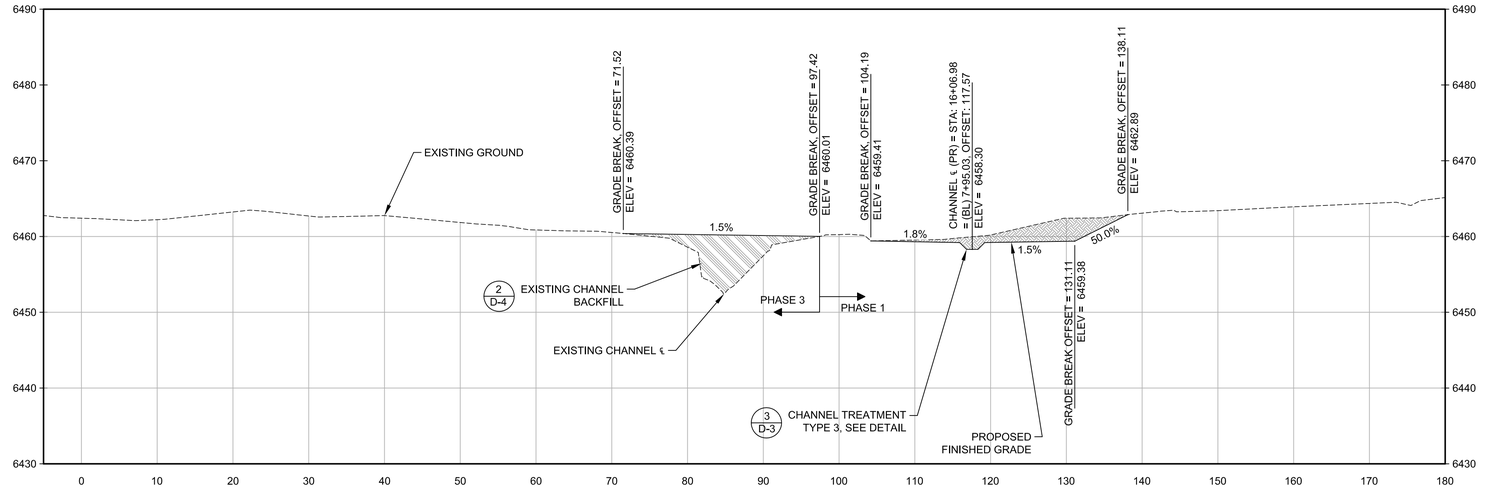
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-8+38 & BL-8+18

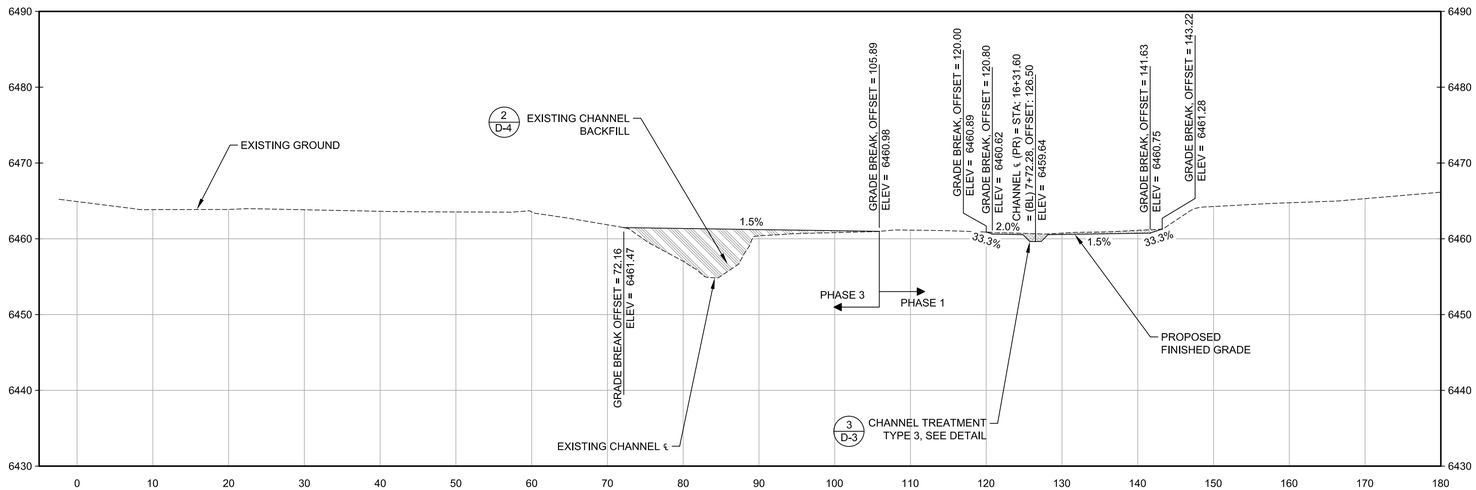
DATE
6/2012

SHEET XS-27

(BL) 7+95.03 = STA: (PR) 16+06.98



(BL) 7+72.28 = STA: (PR) 16+31.60



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL 2/D-4 FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
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LEGEND
- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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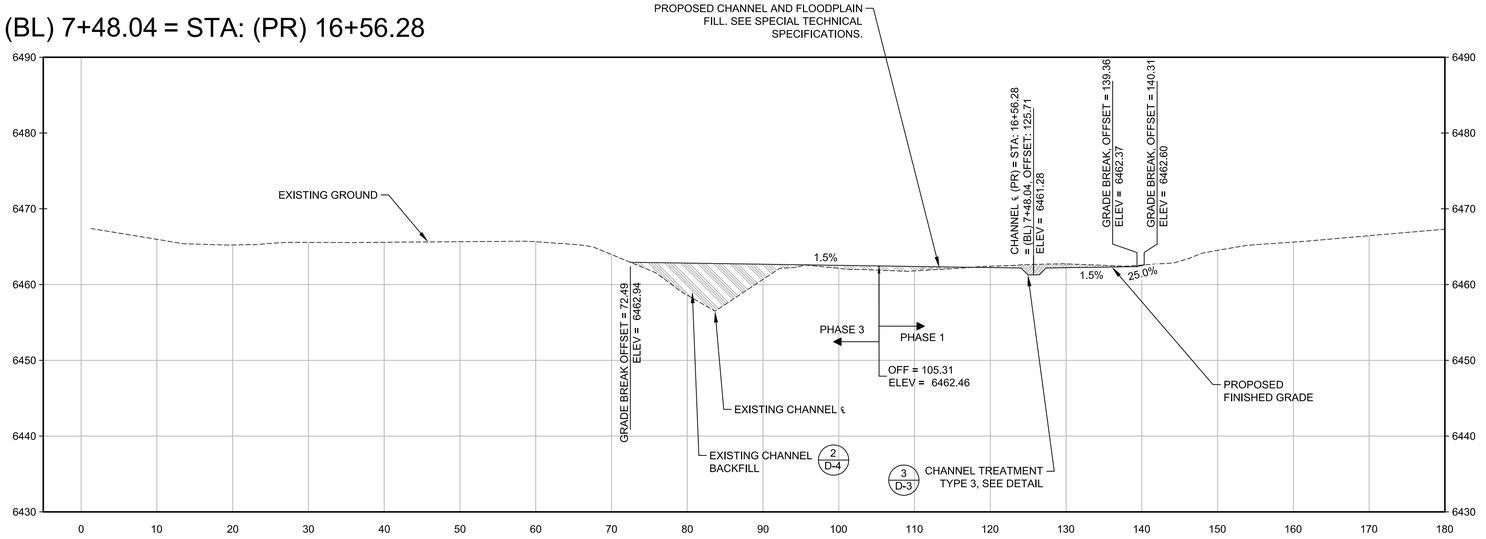
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTIONS
STATION: BL-7+95 & BL-7+72

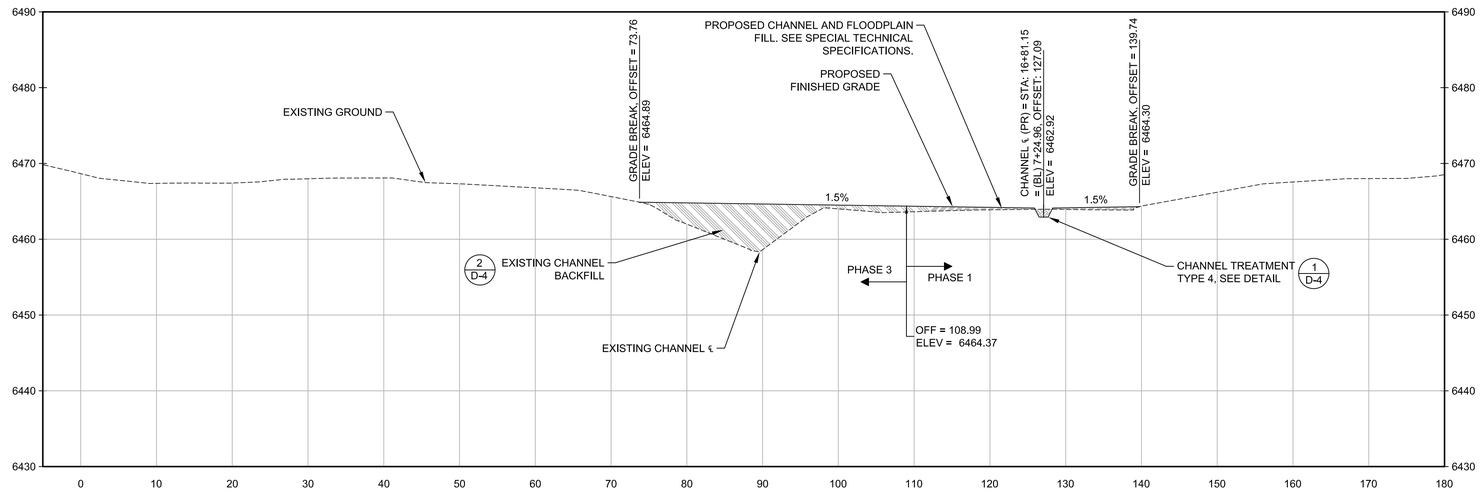
DATE 6/2012

SHEET XS-28

(BL) 7+48.04 = STA: (PR) 16+56.28



(BL) 7+24.96 = STA: (PR) 16+81.15



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

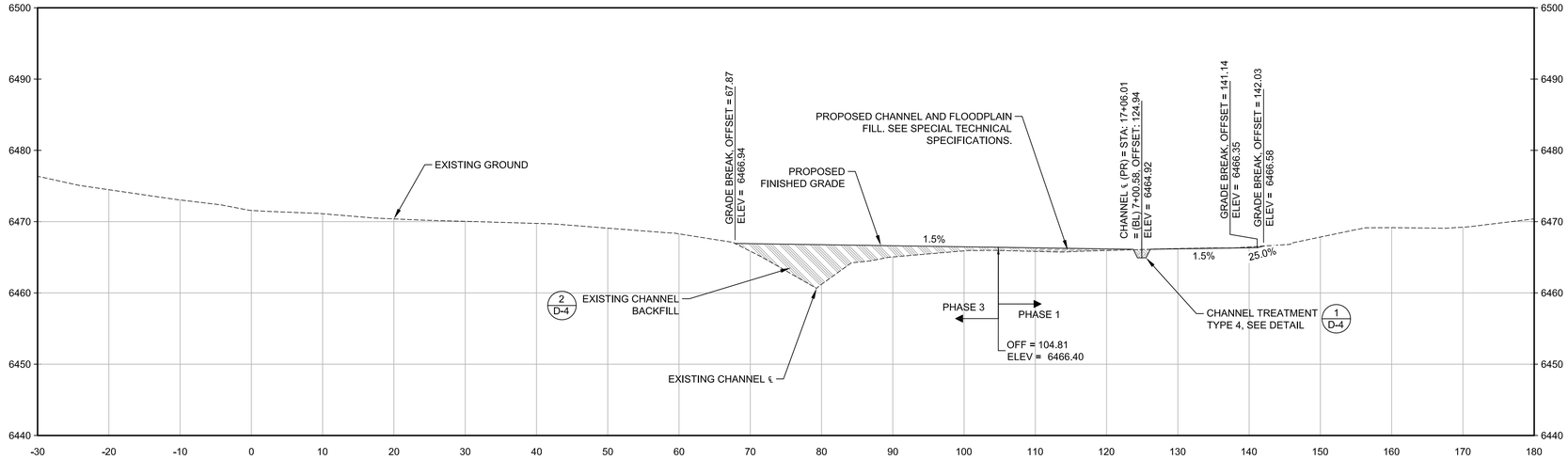
CROSS SECTIONS

STATION: BL-7+48 & BL-7+24

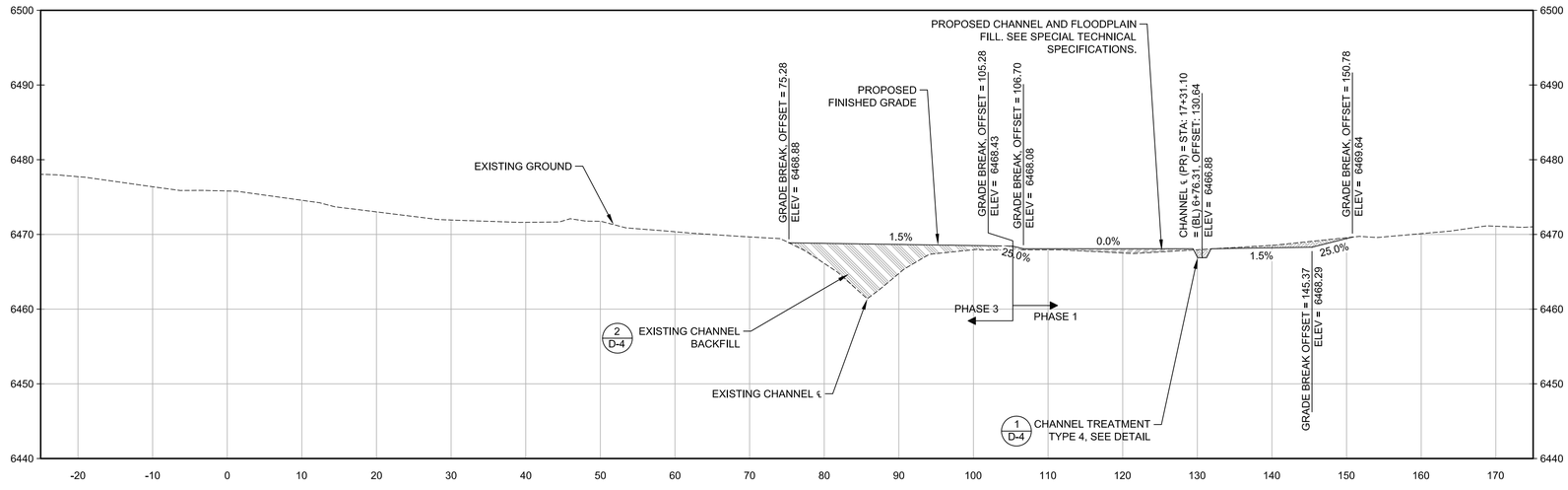
DATE
6/2012

SHEET XS-29

(BL) 7+00.58 = STA: (PR) 17+06.01



(BL) 6+76.31 = STA: (PR) 17+31.10



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4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
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No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

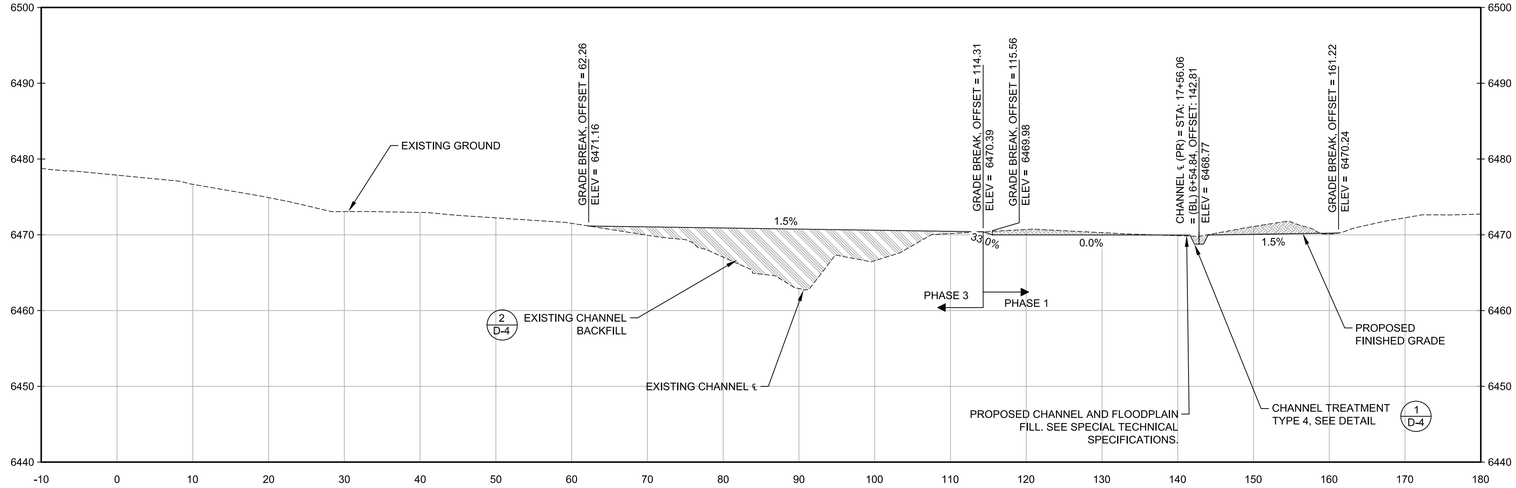
CROSS SECTIONS

STATION: BL-7+00 & BL-6+76

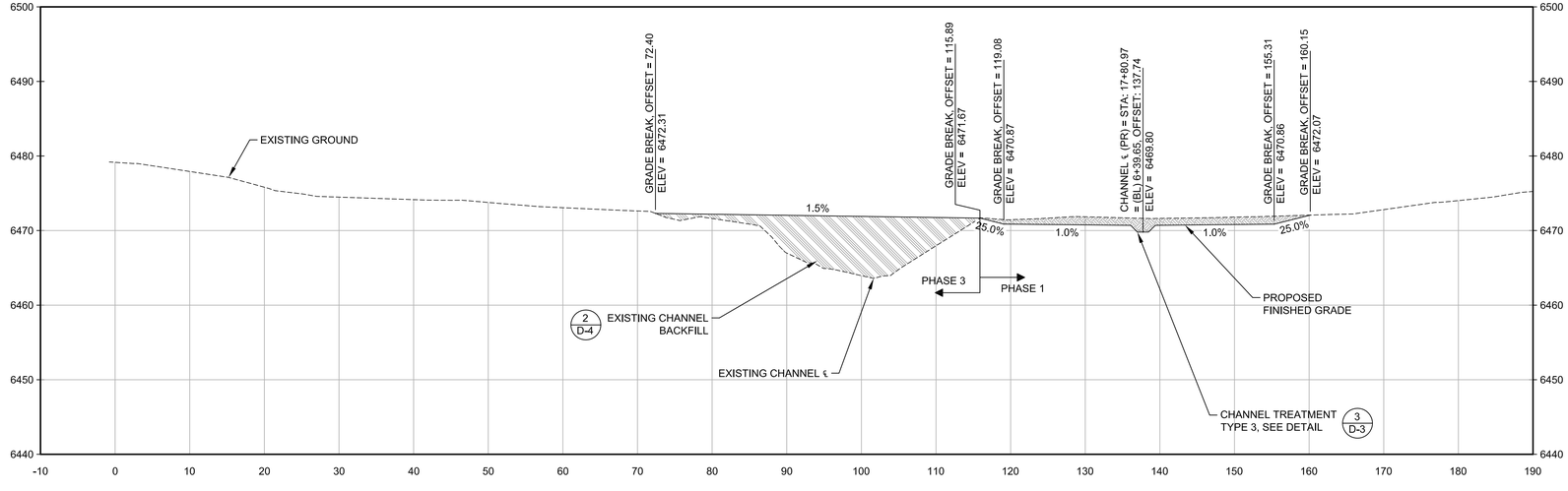
DATE
6/2012

SHEET XS-30

(BL) 6+54.84 = STA: (PR) 17+56.06



(BL) 6+39.65 = STA: (PR) 17+80.97



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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CIVIL
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

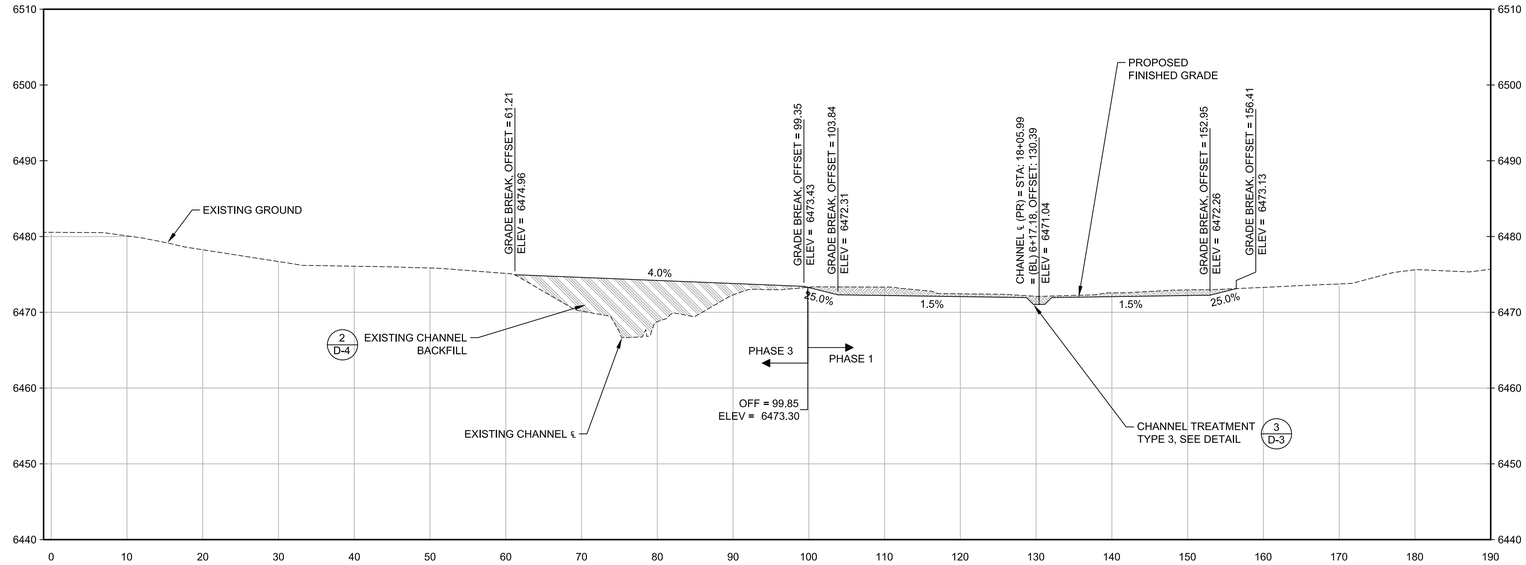
CROSS SECTIONS

STATION: BL-6+54 & BL-6+39

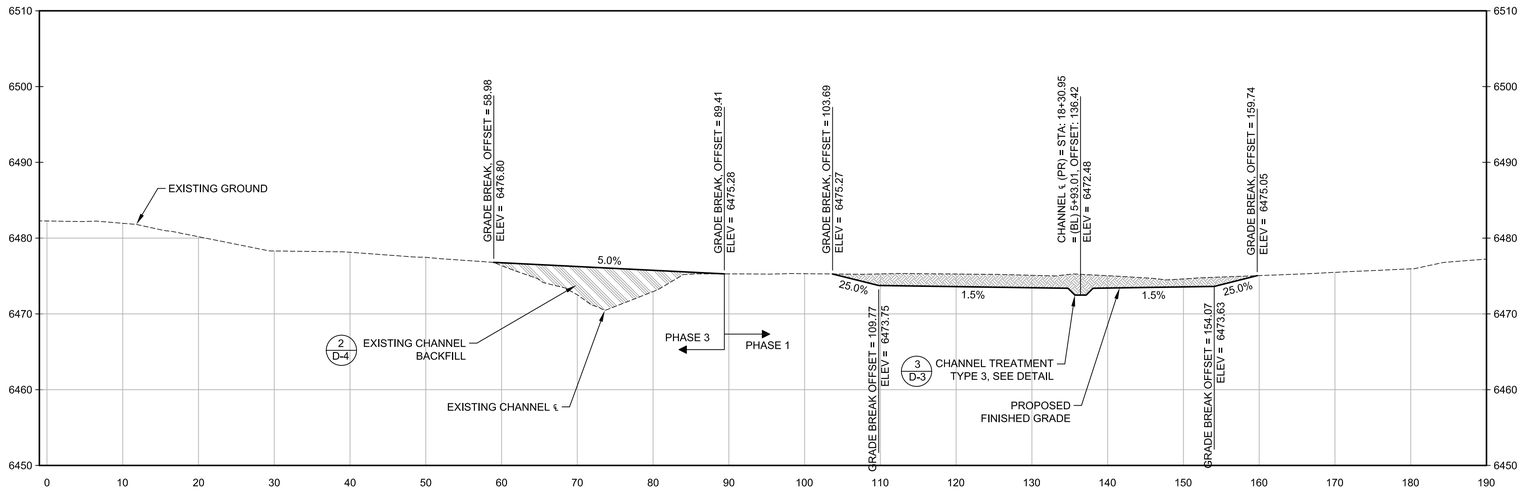
DATE
6/2012

SHEET XS-31

(BL) 6+17.18 = STA: (PR) 18+05.99



(BL) 5+93.01 = STA: (PR) 18+30.95



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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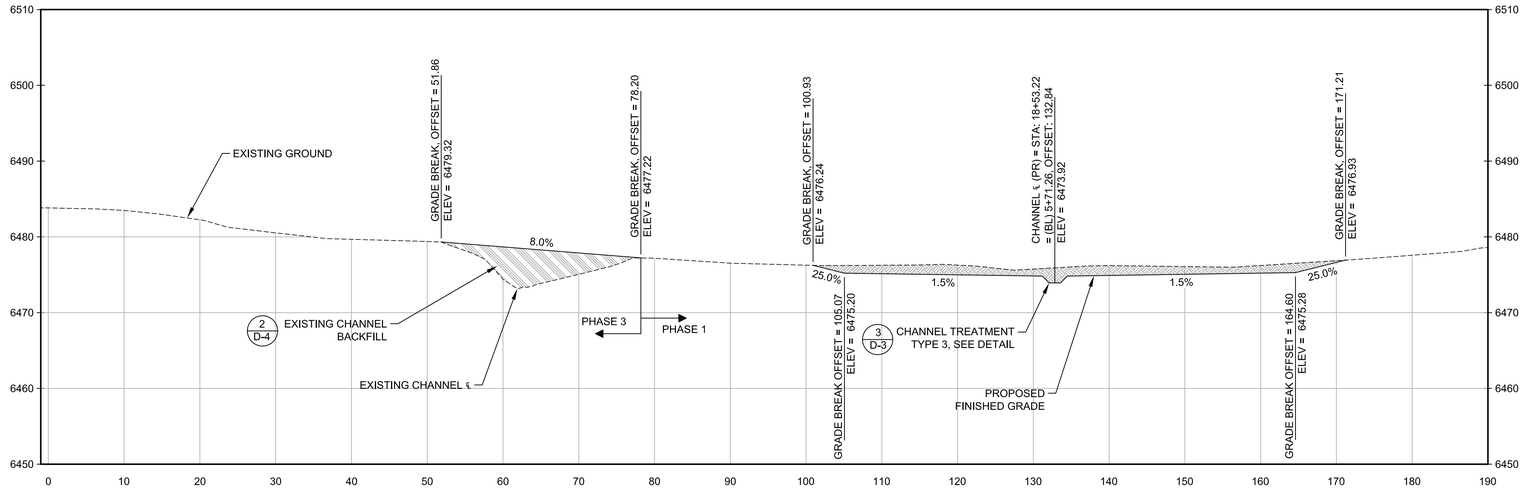
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTIONS
STATION: BL-6+17 & BL-5+93

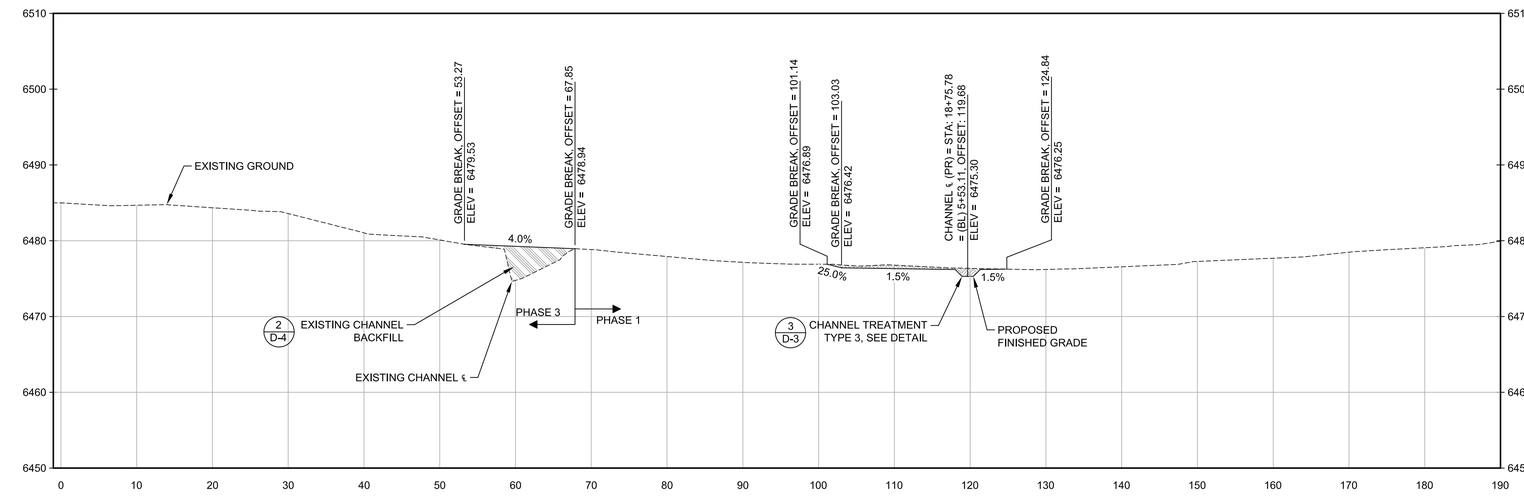
DATE
6/2012

SHEET XS-32

(BL) 5+71.26 = STA: (PR) 18+53.22



(BL) 5+53.11 = STA: (PR) 18+75.78



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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
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REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
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(775) 775-9069 Main

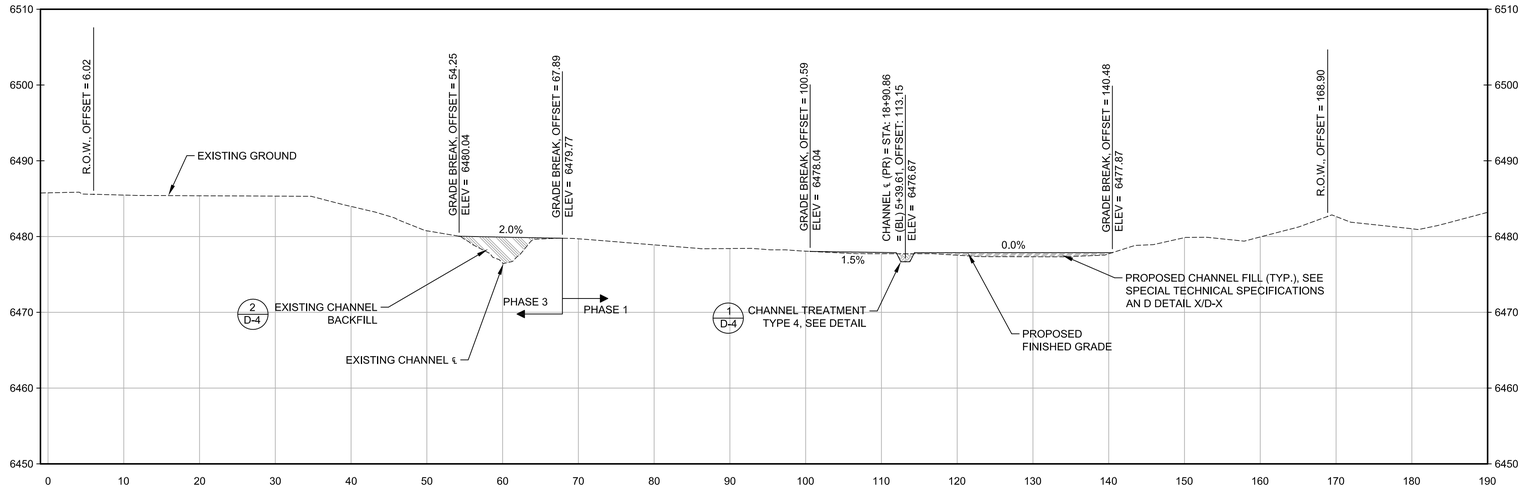
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
CROSS SECTIONS
STATION: BL-5+71 & BL-5+53

DATE
6/2012

SHEET XS-33

(BL) 5+39.61 = STA: (PR) 18+90.86



NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. STATION ZERO REFERS TO THE BASELINE CONSTRUCTION ALIGNMENT POSITIVE AND NEGATIVE VALUES DENOTE THE DISTANCE FORM THIS ALIGNMENT LOOKING DOWNSTREAM.
3. REFERENCE REVEGETATION SHEETS R-1 THROUGH R-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR SURFACE TREATMENT OUTSIDE OF CHANNEL AREA AS SHOWN ON CHANNEL TREATMENT DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}3}$, & $\frac{1}{D\text{-}4}$.
4. SEE SPECIAL TECHNICAL SPECIFICATIONS AND DETAIL $\frac{2}{D\text{-}4}$ FOR EXISTING CHANNEL BACKFILL REQUIREMENTS.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR PROPOSED CHANNEL AND FLOODPLAIN FILL REQUIREMENTS.
6. OVER EXCAVATE DISTURBED AREAS (OUTSIDE CHANNEL AREA AS SHOWN ON DETAILS $\frac{1}{D\text{-}3}$, $\frac{2}{D\text{-}3}$, $\frac{3}{D\text{-}4}$, AND $\frac{1}{D\text{-}4}$ AND OUTSIDE EXISTING CHANNEL BACKFILL AREA AS SHOWN ON DETAIL $\frac{2}{D\text{-}4}$) 6" AND PLACE SALVAGED TOPSOIL OR AMENDED FILL, COMPACT TO 85% RELATIVE COMPACTION. SEE SPECIAL TECHNICAL SPECIFICATIONS (TYP.).

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED FLOODPLAIN AND CHANNEL CUT
- PROPOSED CHANNEL AND FLOODPLAIN FILL
- EXISTING CHANNEL BACKFILL

REVISIONS			
MARK	DATE	BY	

CROSS SECTIONS
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CROSS SECTIONS
STATION: BL-5+39

DATE
6/2012

SHEET XS-34

ALL WORK ON THIS SHEET AND ASSOCIATED CROSS-SECTIONS SHALL BE PERFORMED IN PHASE 3

LEGEND

REVEGETATION TYPE F (RESTORED FLOODPLAIN) AND TYPE H (EROSION CONTROL BLANKET)

REVEGETATION TYPE I - PROPAGATED WETLAND MAT

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING	2,090 ±SF
PHASE 3 CUT	105 CY±
PHASE 3 FILL	96 CY±

TRANSITION CHANNEL SECTION, FLOODPLAIN AND ALL GRADING / IMPROVEMENTS CONSTRUCTION BETWEEN STATION 2+50.00 THRU STATION 2+45.00 (CHANNEL BED TYPE 4 TO CROSS-SECTION F) EVENLY AND UNIFORMLY.

SEE CROSS-SECTIONS FOR CHANNEL CONSTRUCTION INFORMATION (TYP.)

INSTALL REVEGETATION TYPE I 330 ±SF

PROPOSED CHANNEL GRADE CONTROL STRUCTURE (ONE, 22 ±LF, PHASE 3). SEE DETAIL FOR CONSTRUCTION DIMENSIONS. (1 / D-5)

PROPOSED CHANNEL ALIGNMENT (TYP.)

STATION (PR) 2+50.00 LIMIT OF PHASE 1 CHANNEL AND FLOODPLAIN WORK

INSTALL REVEGETATION TYPE F. 1,025 ±SF
INSTALL REVEGETATION TYPE H. 1,025 ±SF
SEE SHEETS TI-2 THRU TI-4 AND SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION AND EMBANKMENT FLOODPLAIN CONSTRUCTION INFORMATION. (TYP.)

PLACE 12" Ø TOE ROCKS (2). SEE CROSS-SECTIONS FOR DETAILS (SHEET TI-2 THRU TI-4)

2+45.00

INSTALL REVEGETATION TYPES C (WILLOW STAKES PLANTING). 21 ±EACH
SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION AND PLACEMENT (TYP.)

ROCK TOE SHALL BE "IRREGULARLY" PLACED TO PROVIDE ROUGHNESS AS DIRECTED BY THE ENGINEER.

NORTHWOOD BLVD

STATION (EX) 3+50.00 LIMIT OF PHASE 3, BACKFILL OF EXISTING CHANNEL WORK

EXISTING CHANNEL ALIGNMENT (TYP.)

NDOT RIGHT-OF-WAY (TYP.)

STATION (PR) 1+82.64 = (EX) 2+88.34 LIMIT OF DOWNSTREAM TIE-IN WORK (AT CULVERT INVERT)

EXISTING CMP (PROTECT IN PLACE)

2+19.08

2+07.21

1+93.93

1+88.58

2+29.50

GRADING LIMITS (TYP.)

INSTALL REVEGETATION TYPE I. SEE CROSS-SECTIONS SHEETS (TI-2 THRU TI-4) FOR EMBANKMENT FLOODPLAIN CONSTRUCTION INFORMATION. (TYP.) 400 ±SF

STATION (PR)-2+08.00 TO (PR)-2+18.00, TRANSITION FROM (1) TO (2) TOE ROCKS OVER 10' OF CHANNEL LENGTH EVENLY AND UNIFORMLY). BOTH SIDES OF CHANNEL.

PLACE 12" Ø TOE ROCKS. SEE CROSS-SECTIONS FOR DETAILS (SHEET TI-2 THRU TI-4)

HIGHWAY 28

NOTES:

1. SEE SHEET DIV-1, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL TREE REMOVALS IN TIE-IN AREA (THIS SHEET) ARE AS SHOWN ON SHEET P-1.

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
5 0 5

PROFESSIONAL ENGINEER-STATE OF NEVADA
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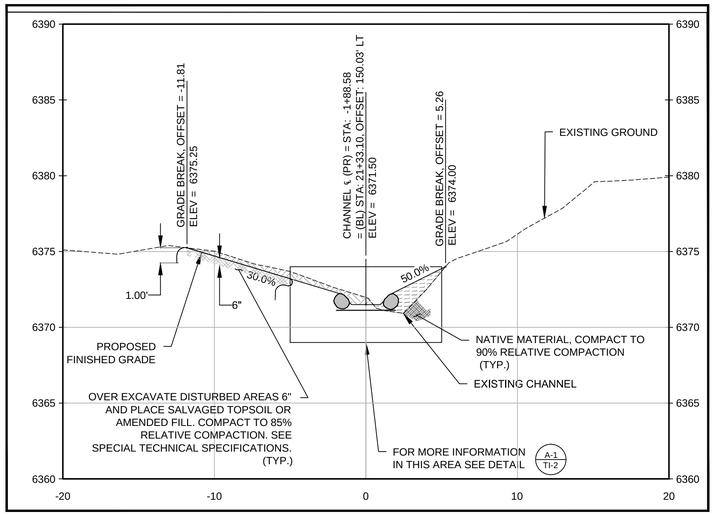
Valley & Mountain Consulting

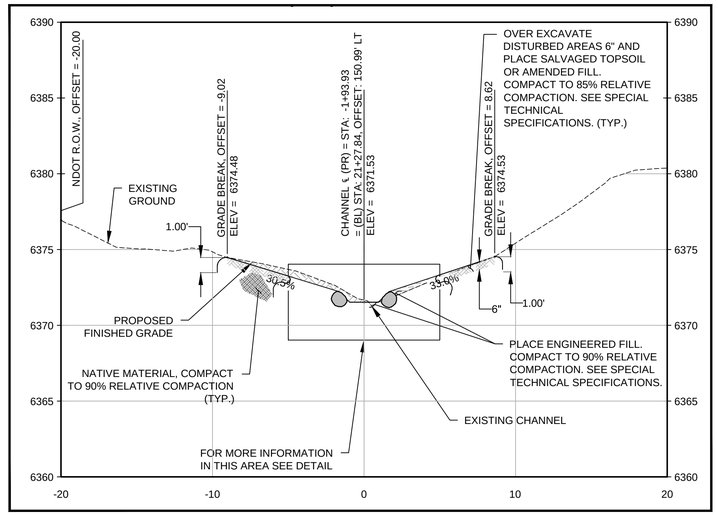
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DOWNSTREAM TIE-IN

DATE 6/2012

Sheet TI-1
SHEET 60 OF 134



ALL WORK ON THIS SHEET IS WITHIN NDOT RIGHT-OF-WAY.



SECTION STA: (PR)–1+88.58

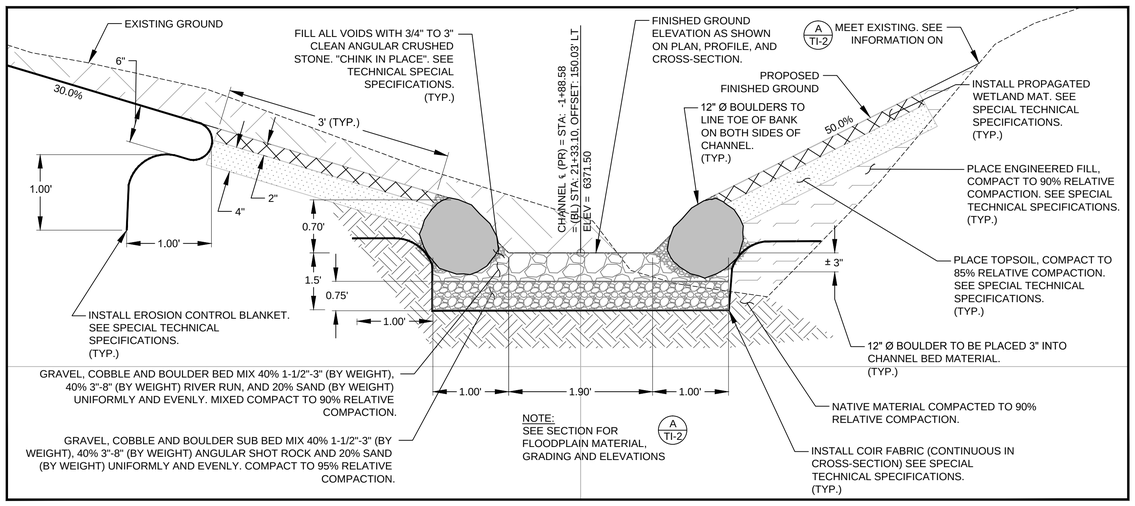
A / TI–2

ALL WORK IS WITHIN NDOT ROW
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

SECTION STA: (PR)–1+93.93

B / TI–2

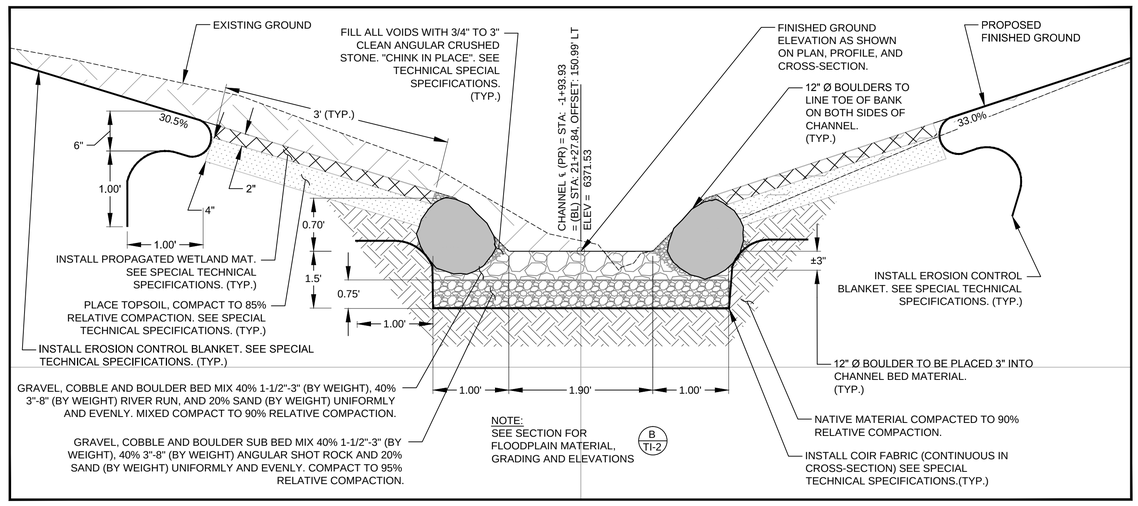
ALL WORK IS WITHIN NDOT ROW
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–1+88.58

A–1 / TI–2

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'



BLOW–UP, STA: (PR)–1+93.93

B–1 / TI–2

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-1, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

REVISIONS

MARK	DATE	BY

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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VALLEY & MOUNTAIN CONSULTING

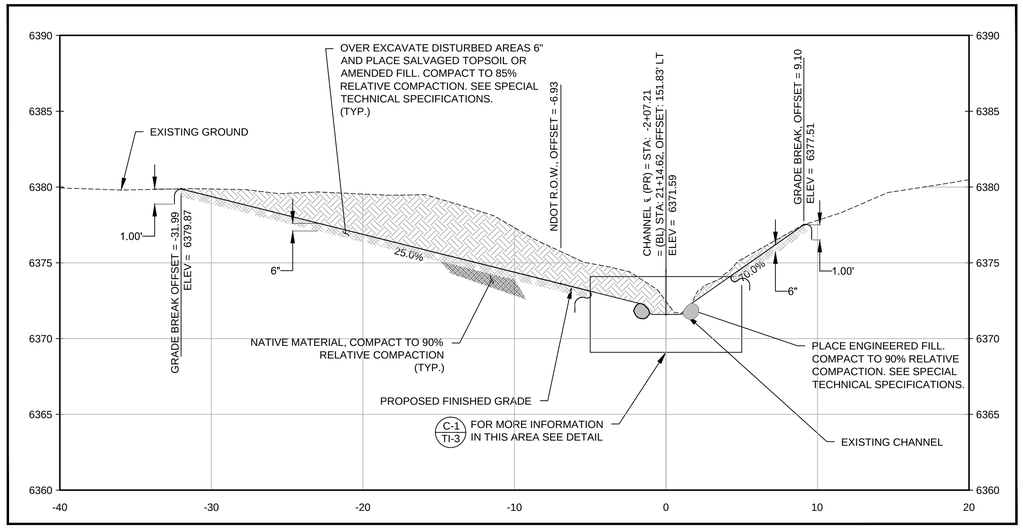
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DOWNSTREAM TIE-IN

STATION: PR-1+88.58 TO 1+93.93

DATE
6/2012

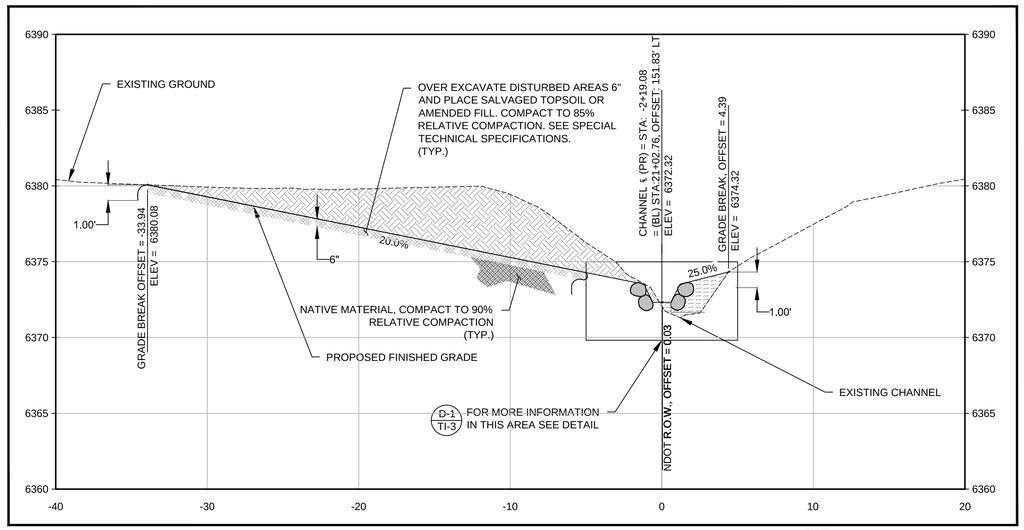
Sheet TI-2
SHEET 61 OF 134



SECTION STA: (PR)–2+07.21

C / TI–3

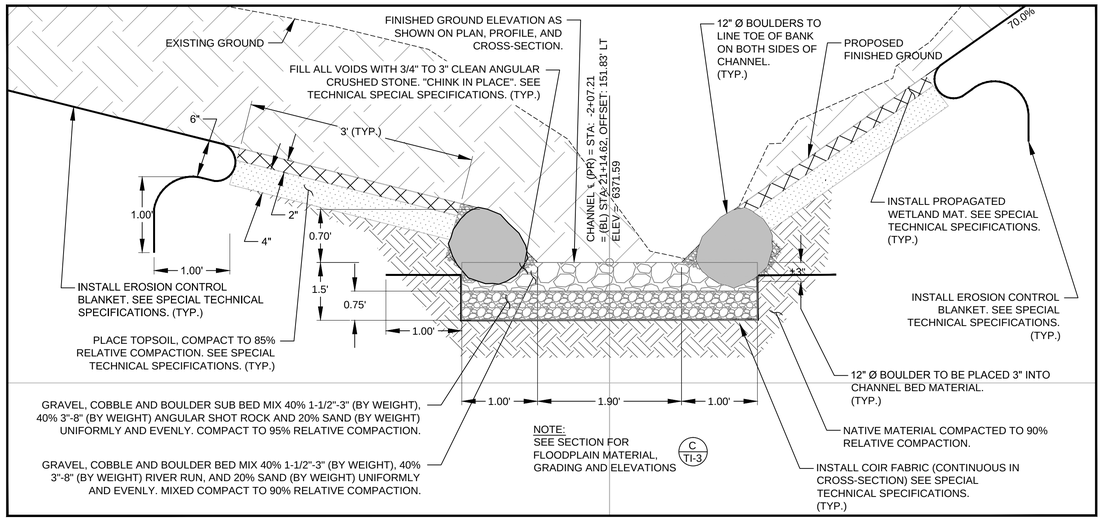
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



SECTION STA: (PR)–2+19.08

D / TI–3

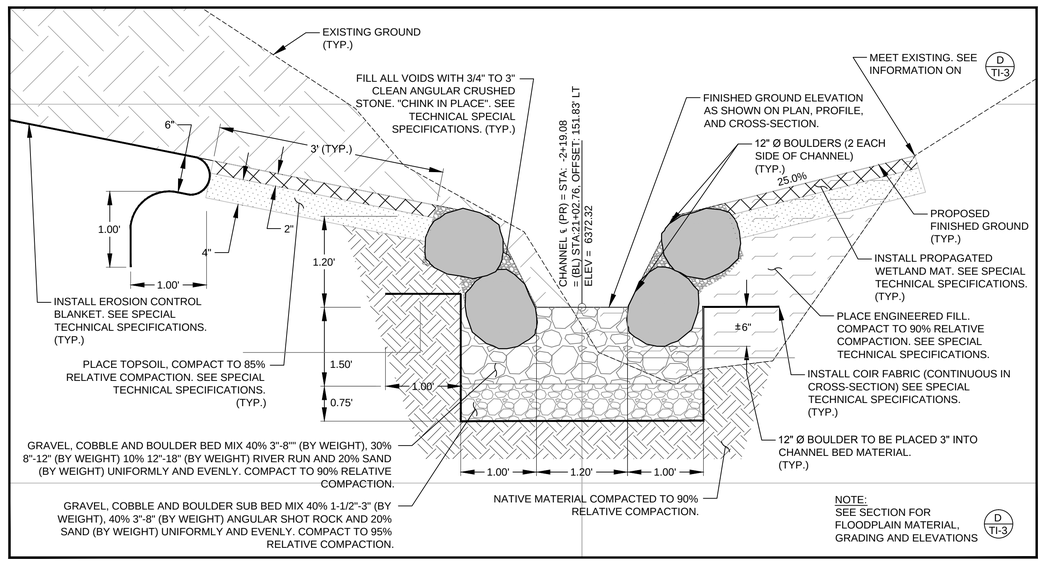
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–2+07.21

C-1 / TI–3

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'



BLOW–UP, STA: (PR)–2+19.08

D-1 / TI–3

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-1, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN.
4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp. 12/31/13 — CIVIL — No. 16993

SEAL OF WASHOE COUNTY — STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

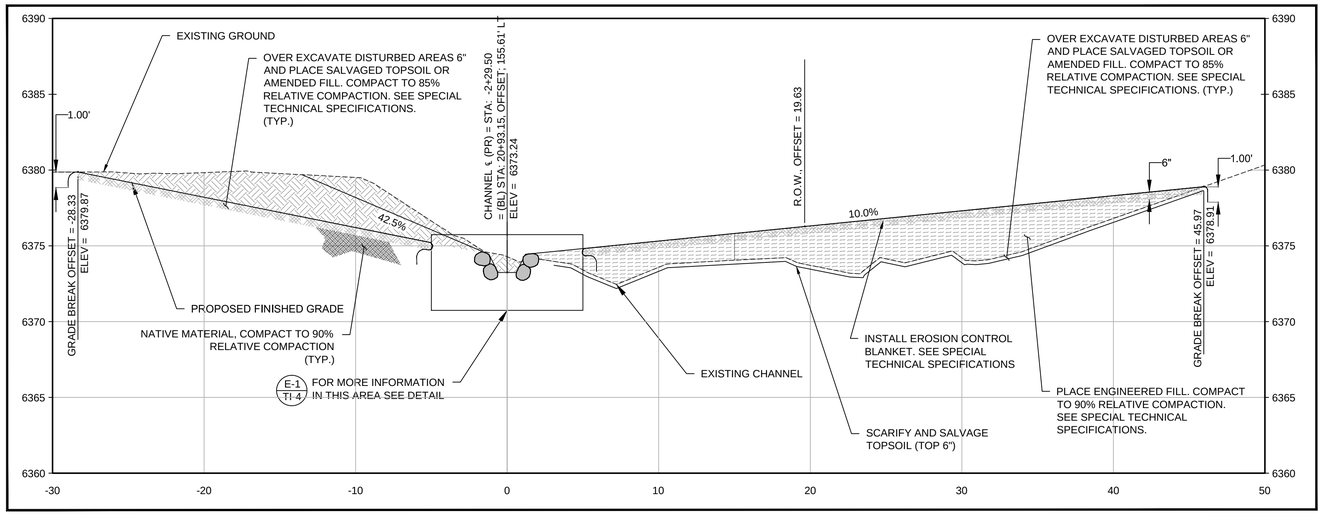
DOWNSTREAM TIE-IN

STATION: PR-2+07.21 TO 2+19.08

DATE 6/2012

Sheet TI-3

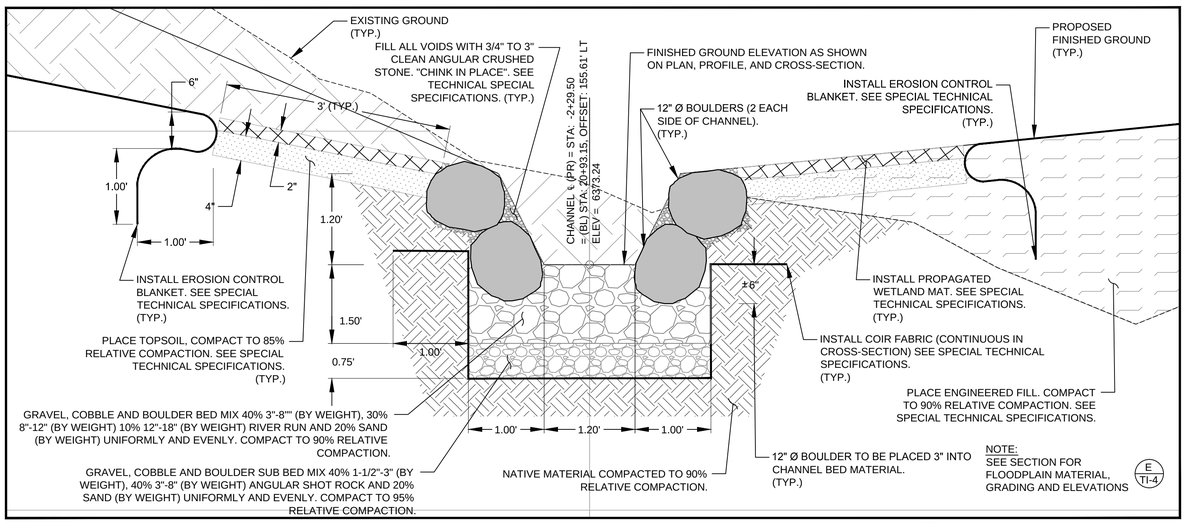
SHEET 62 OF 134



SECTION STA: (PR)–2+29.50

E
TI–4

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–2+29.50

E–1
TI–4

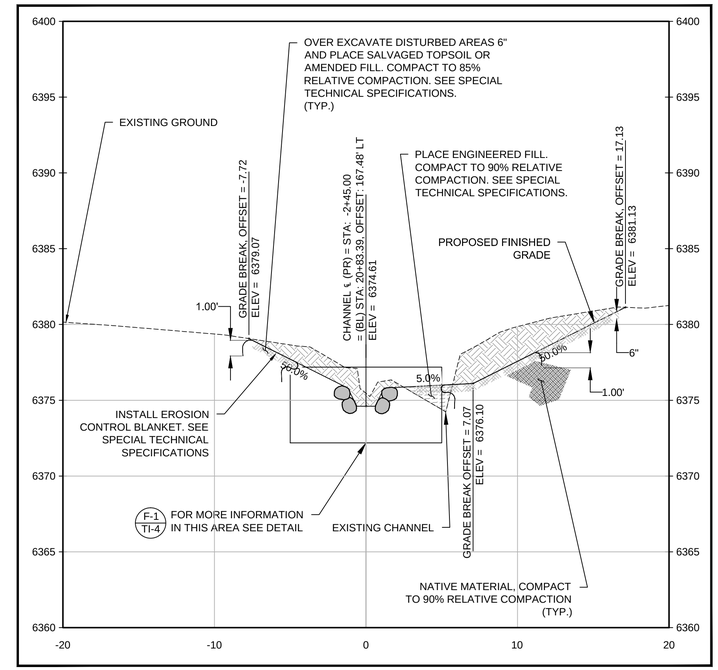
VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

NOTES:

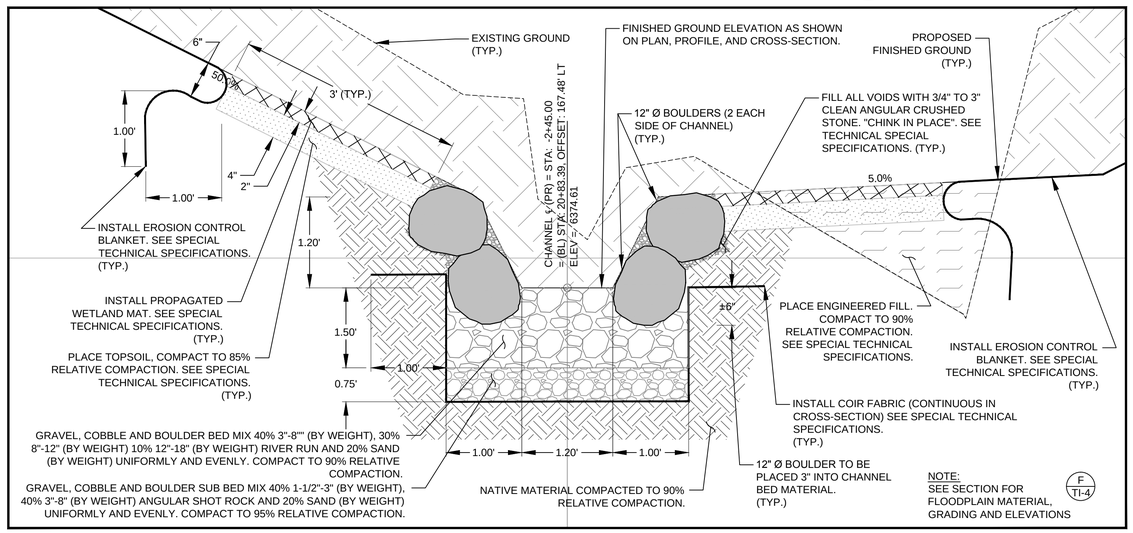
1. SEE SHEET DIV-1, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN.
4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.



SECTION STA: (PR)–2+45.00

F–1
TI–4

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'



BLOW–UP, STA: (PR)–2+45.00

F–1
TI–4

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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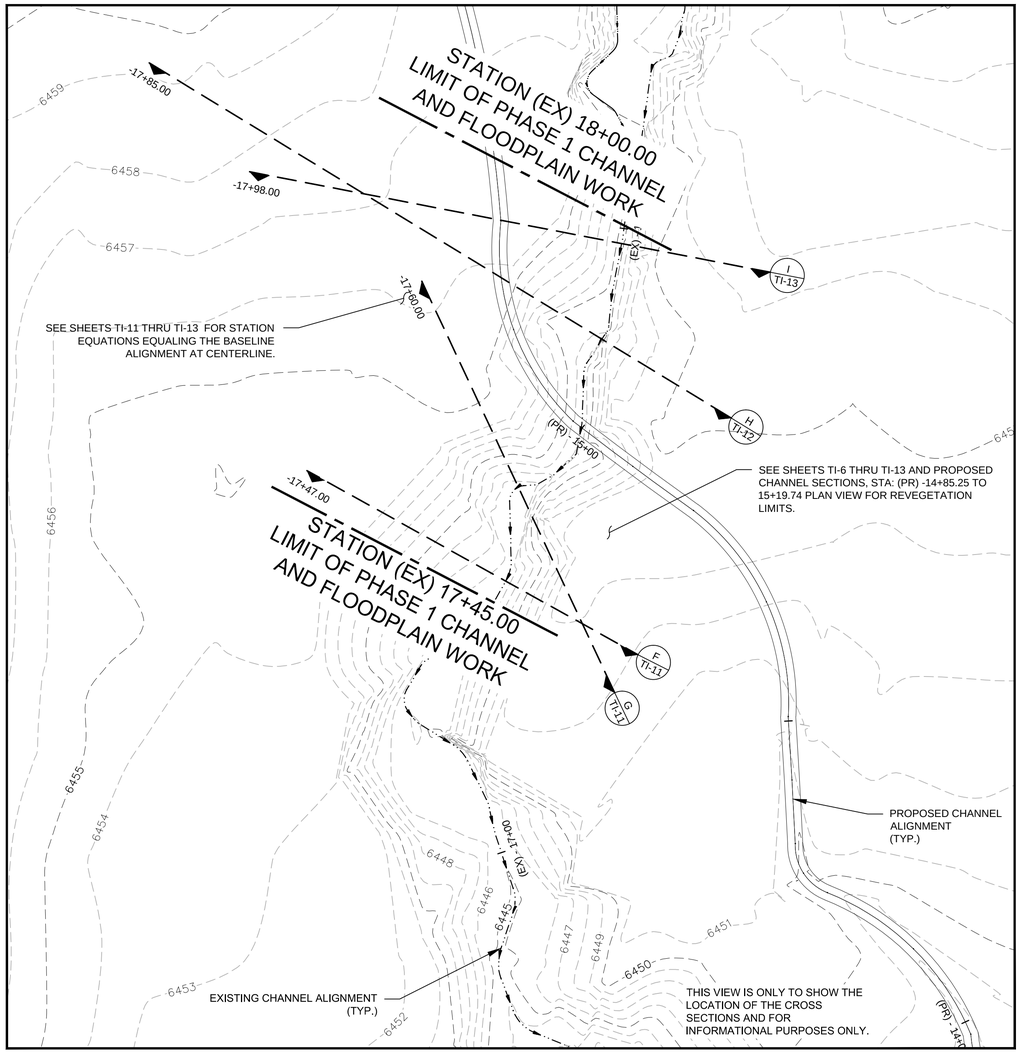
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

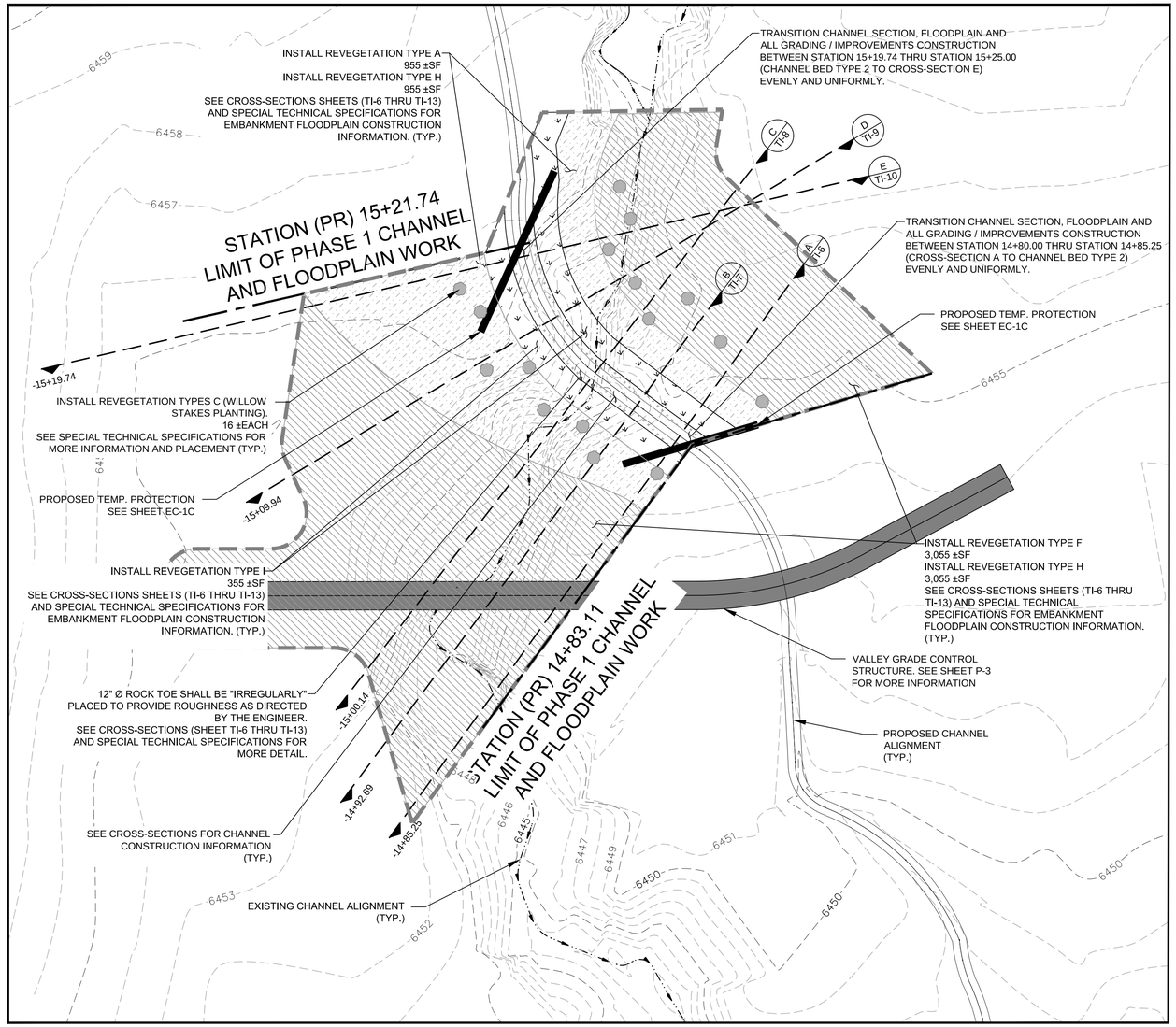
DOWNSTREAM TIE-IN

STATION: PR-2+29.50 TO PR-2+45.00

DATE
6/2012

Sheet TI-4
SHEET 63 OF 134





EXISTING CHANNEL SECTIONS, STA: (EX)−17+45.00 TO 18+00.00

SCALE: 1" = 10'

PROPOSED CHANNEL SECTIONS, STA: (PR)−14+83.11 TO 15+21.74

SCALE: 1" = 10'

LEGEND

- REVEGETATION TYPE A (WET HERBACEOUS AND RIPARIAN) AND TYPE I (PROPAGATED WETLAND MAT)
- REVEGETATION TYPE D (WILLOW STAKE, WILLOW/ALDER ROOT WADS AND ROCK ARMOUR)
- REVEGETATION TYPE F (RESTORED FLOODPLAIN) AND TYPE H (EROSION CONTROL BLANKET)
- REVEGETATION TYPE I - PROPAGATED WETLAND MAT

ALL WORK ON THIS SHEET AND ASSOCIATED CROSS-SECTIONS SHALL BE PERFORMED IN PHASE 3

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING	4,555 ±SF
PHASE 3 CUT	13 CY±
PHASE 3 FILL	252 CY±

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION+ PREVENTION PLAN.
4. ALL TREE REMOVALS IN TIE-IN AREA (THIS SHEET) ARE AS SHOWN ON SHEET P-3.

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
10 0 10

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
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Valley & Mountain Consulting

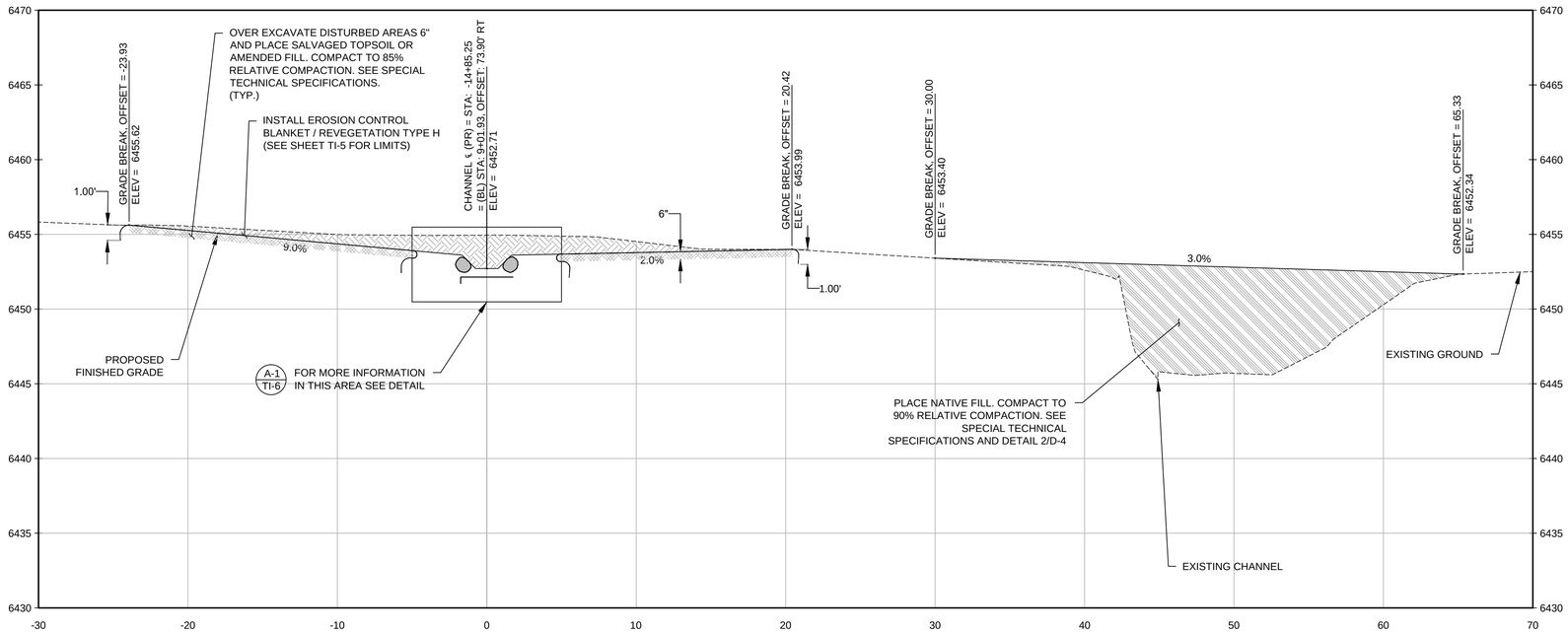
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

EXIST./PROP. CHANNEL CROSSING

DATE 6/2012

Sheet TI-5

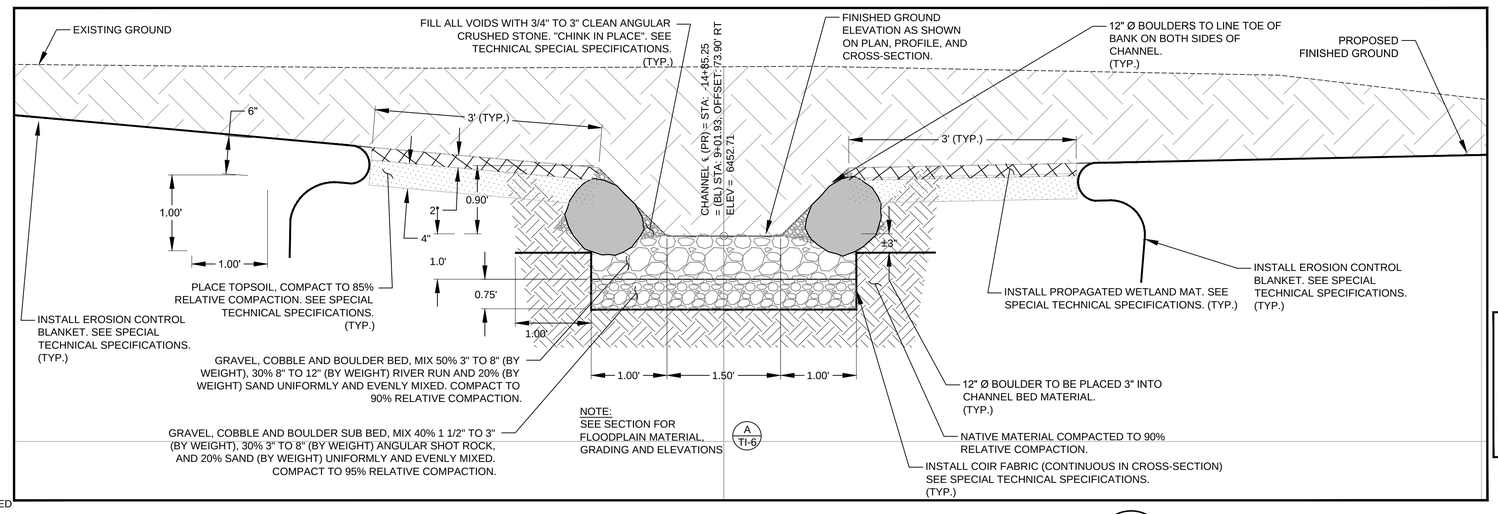
SHEET 64 OF 134



SECTION STA: (PR)–14+85.25

A / TI–6

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–14+85.25

A–1 / TI–6

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION+ PREVENTION PLAN.
4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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SEAL OF WASHOE COUNTY
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Valley & Mountain Consulting

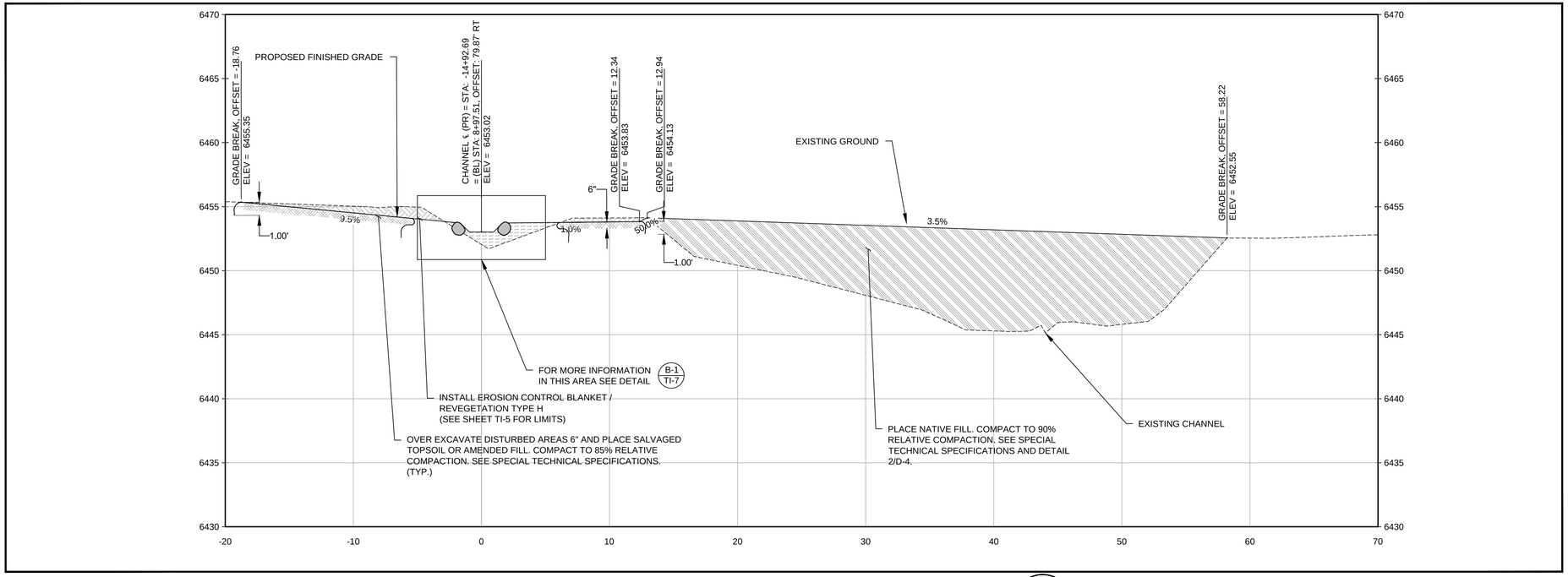
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING STATION: PR-14+85.25

DATE 6/2012

Sheet TI-6

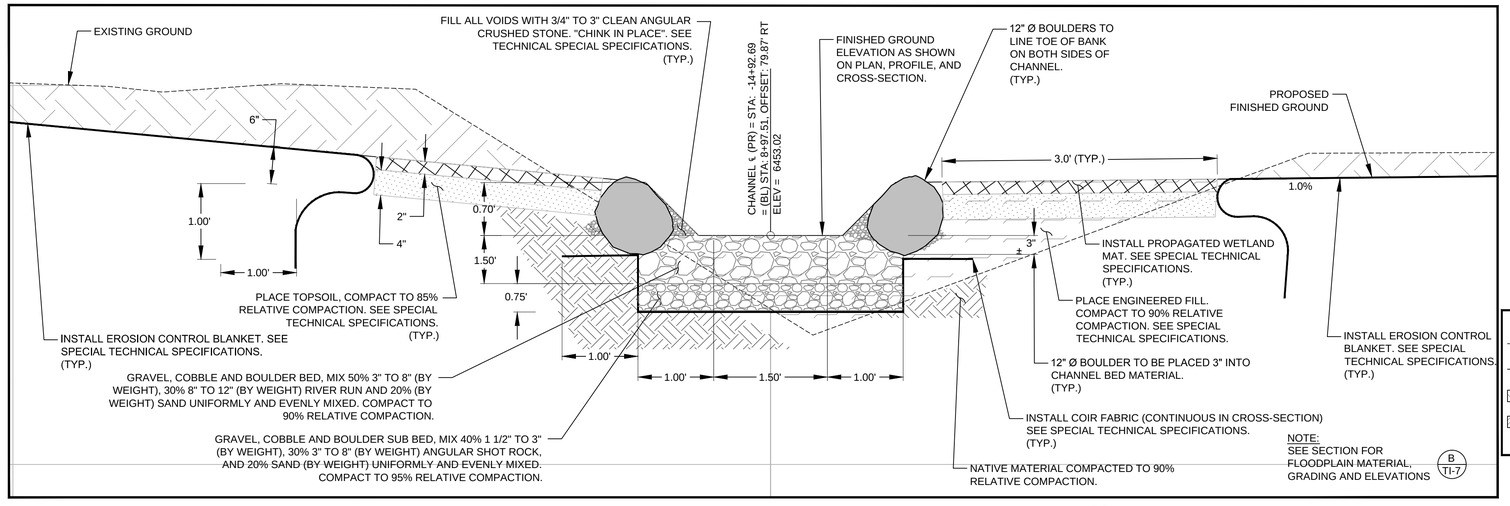
SHEET 65 OF 134



SECTION STA: (PR)–14+92.69

B / TI–7

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–14+92.69

B–1 / TI–7

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION+ PREVENTION PLAN.
4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
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P.O. Box 1533
Zephyr Cove, NV 89448
(775) 775-9069 Main

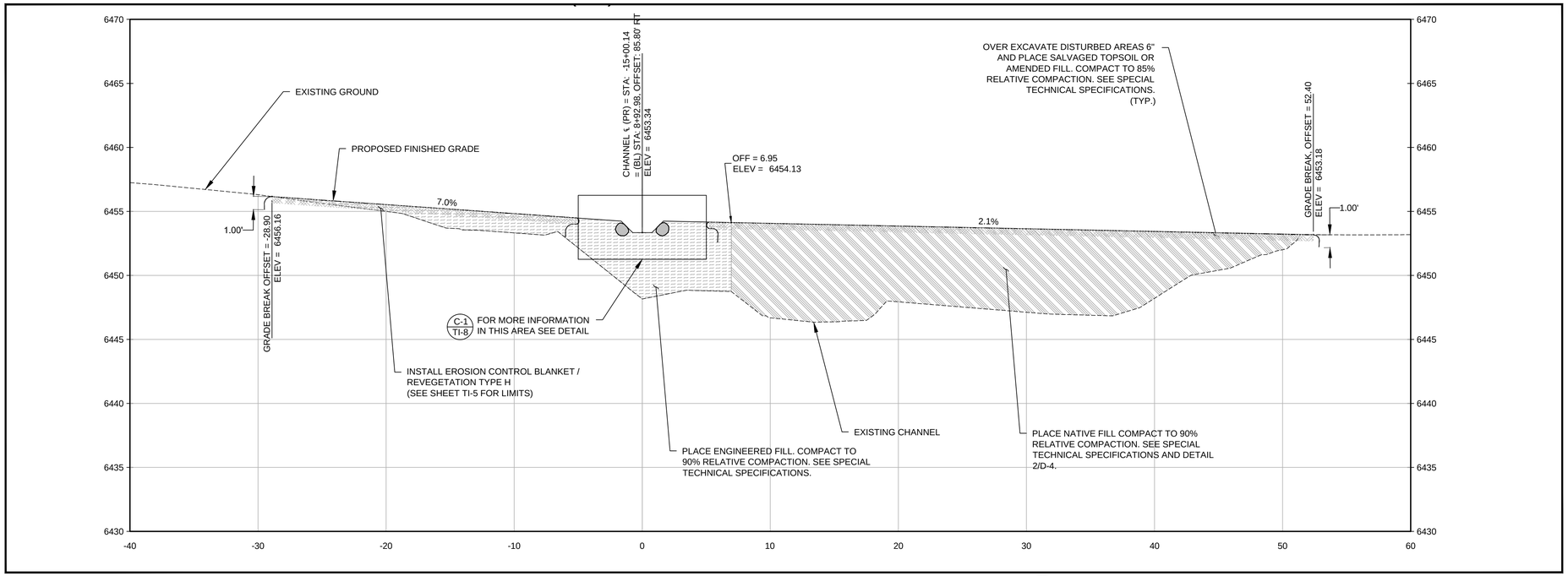
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING STATION: PR-14+92.69

DATE
6/2012

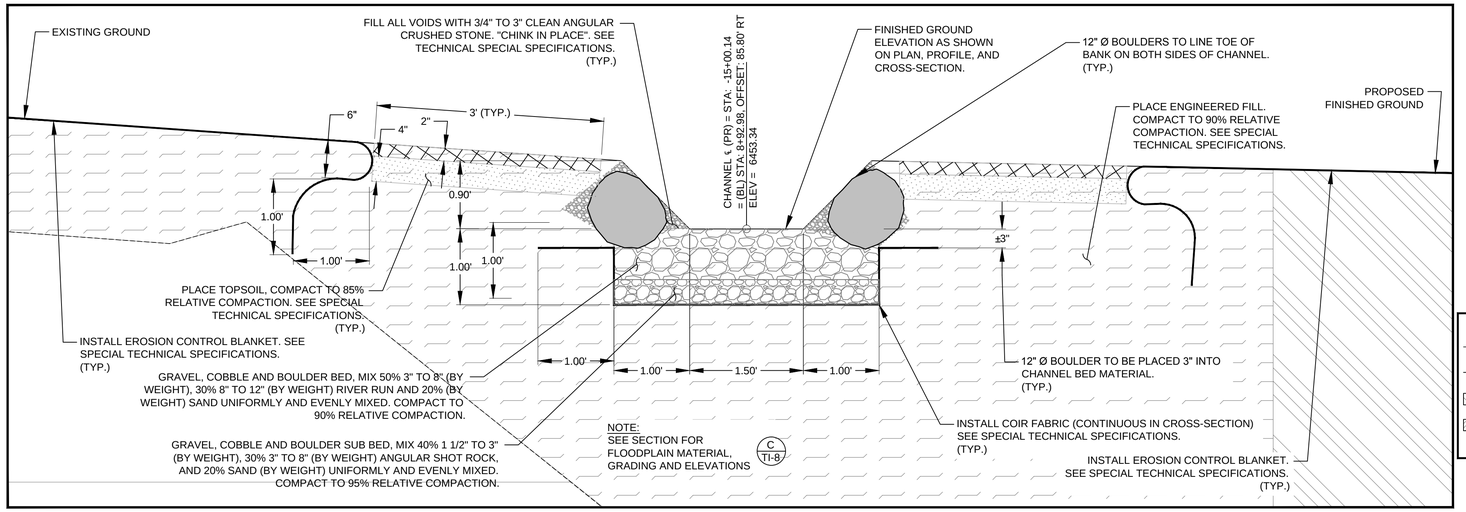
Sheet TI-7
SHEET 66 OF 134



SECTION STA: (PR)–15+00.14

C / TI–8

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–15+00.14

C–1 / TI–8

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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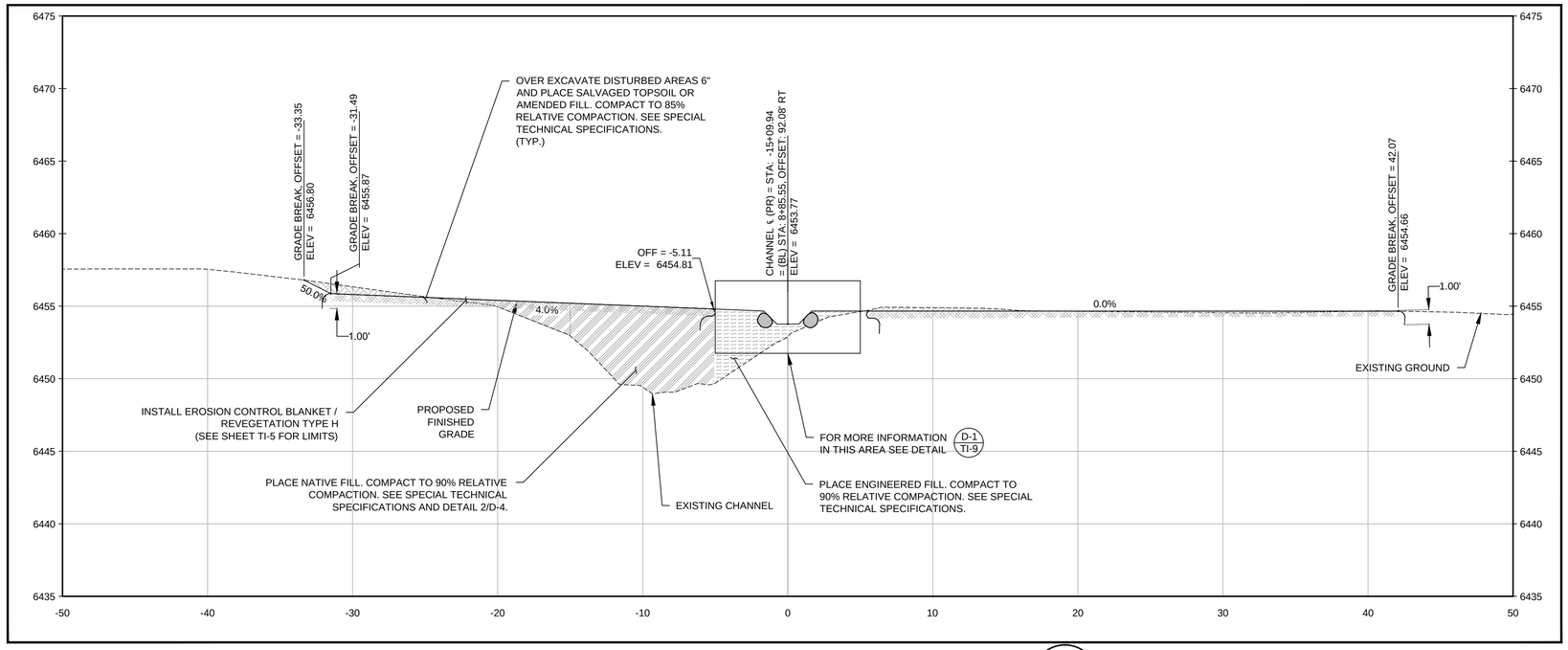
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING
STATION: PR-15+00.14

DATE
6/2012

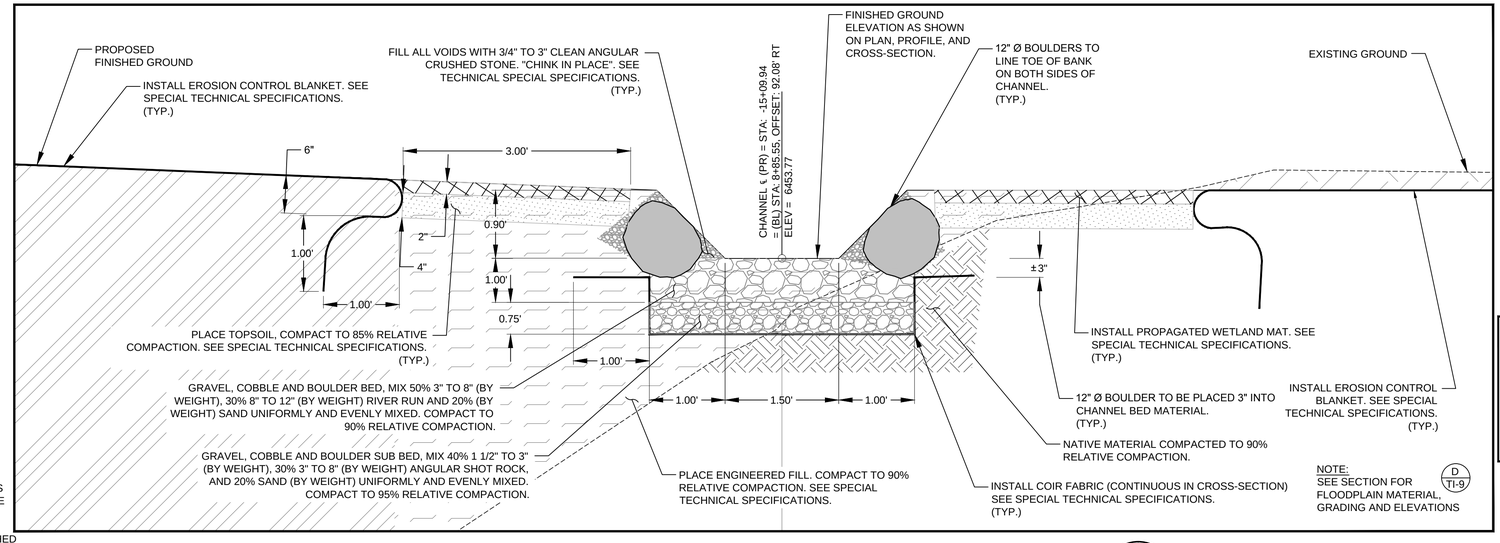
Sheet TI-8
SHEET 67 OF 134



SECTION STA: (PR)–15+09.94

D / TI–9

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (PR)–15+09.94

D–1 / TI–9

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER STATE OF NEVADA
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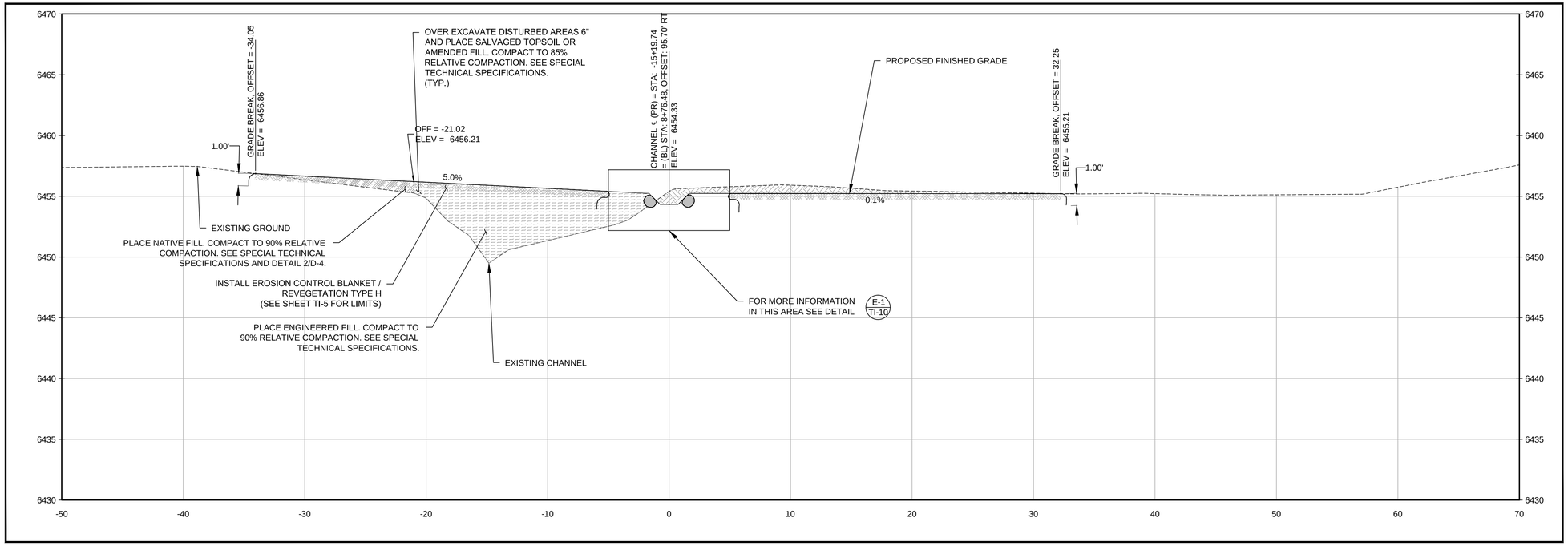
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING STATION: PR-15+09.94

DATE
6/2012

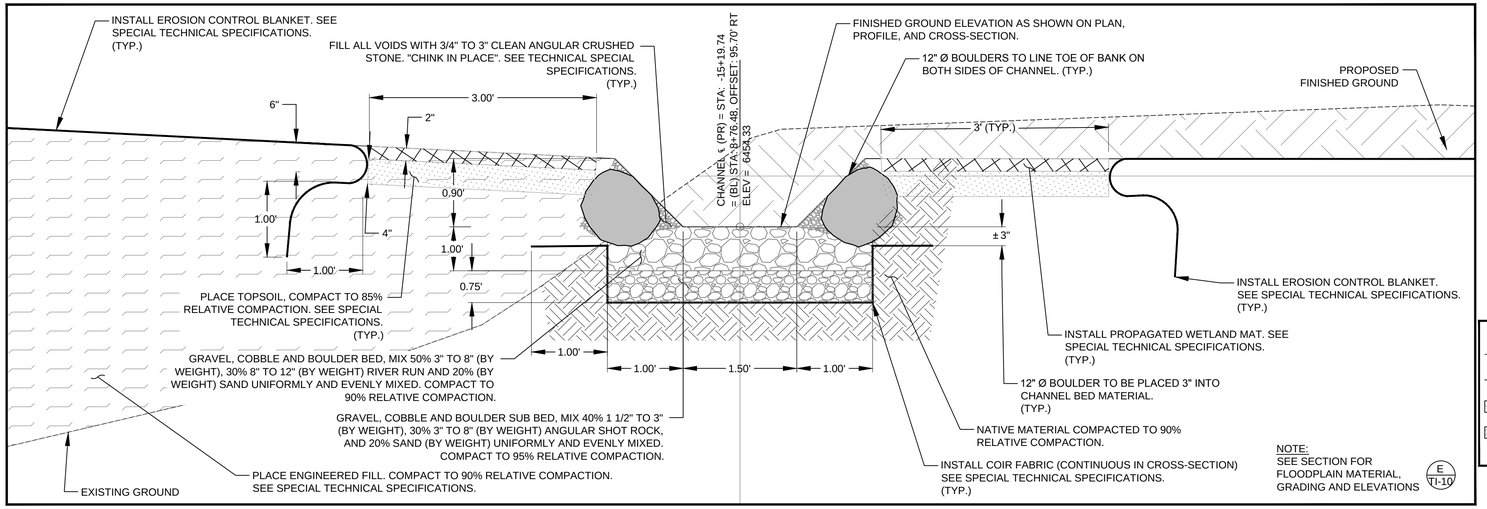
Sheet TI-9
SHEET 68 OF 134



SECTION STA: (PR)–15+19.74

E
TI–10

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



NOTE:
SEE SECTION FOR FLOODPLAIN MATERIAL, GRADING AND ELEVATIONS
E
TI-10

LEGEND

EXISTING GROUND	NATIVE MATERIAL
PROPOSED FINISHED GRADE	PROPAGATED WETLAND MAT
PROPOSED CUT MATERIAL	PROPOSED ENGINEERED FILL
PROPOSED NATIVE FILL	PLACED TOPSOIL, 85% R.C.

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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BLOW–UP, STA: (PR)–15+19.74

E–1
TI–10

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

REVISIONS				
MARK	DATE	BY		

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

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STATE OF NEVADA

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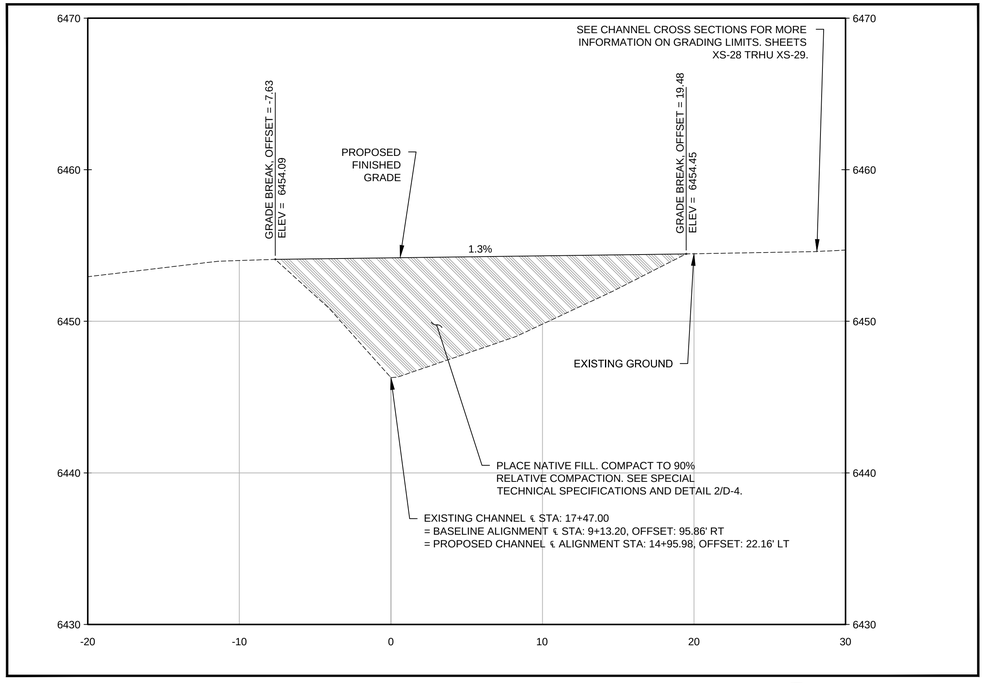
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING
STATION: PR-15+19.74

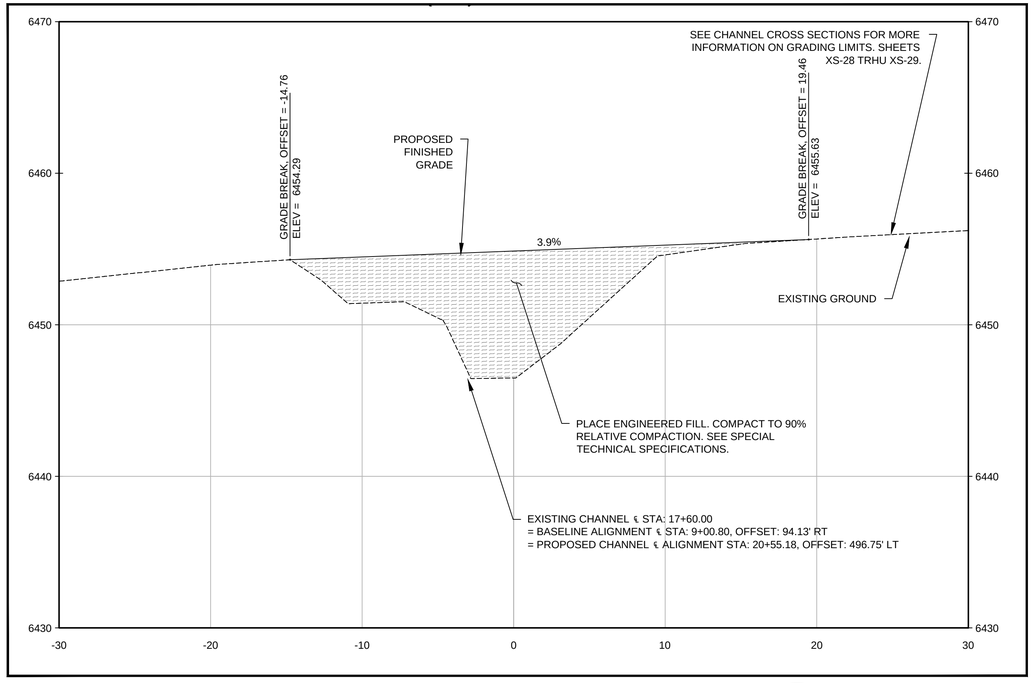
DATE
6/2012

Sheet TI-10
SHEET 69 OF 134



SECTION STA: (EX)–17+47.00 — F / TI–11

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



SECTION STA: (EX)–17+60.00 — G / TI–11

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
No. 16993
Exp. 12/31/13
CIVIL

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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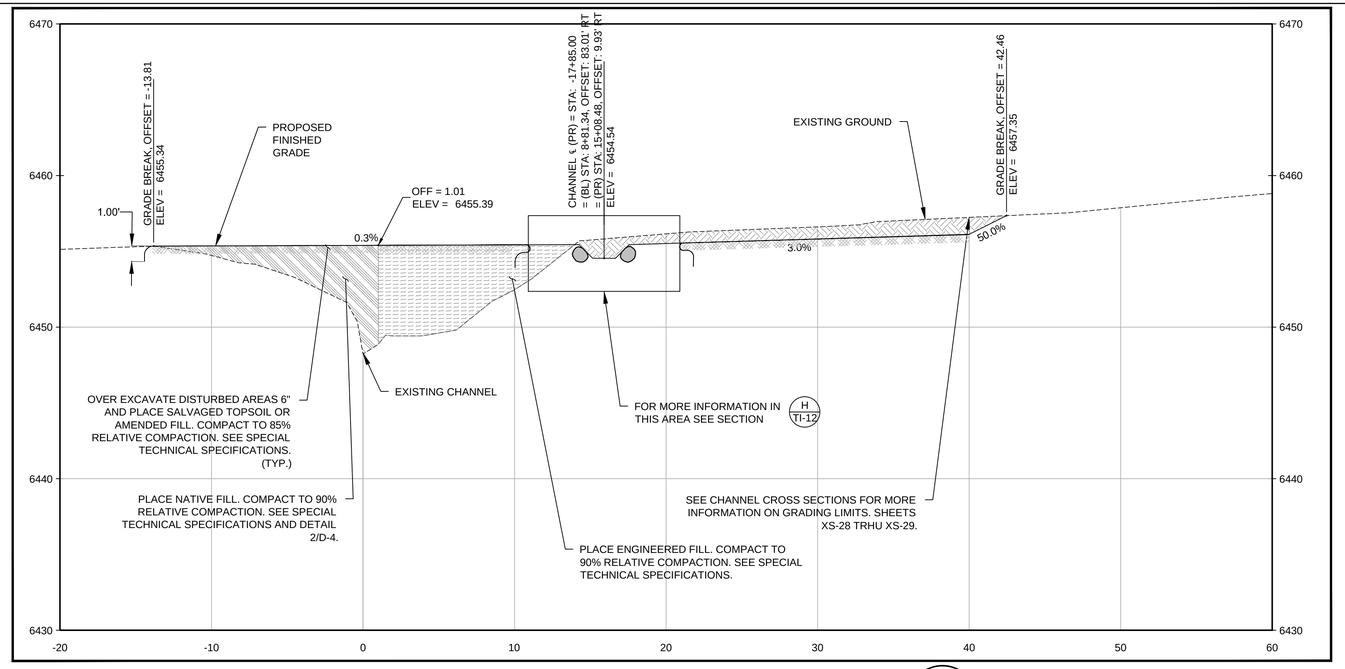
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING

STATION: EX-17+47 TO EX-17+60

DATE 6/2012

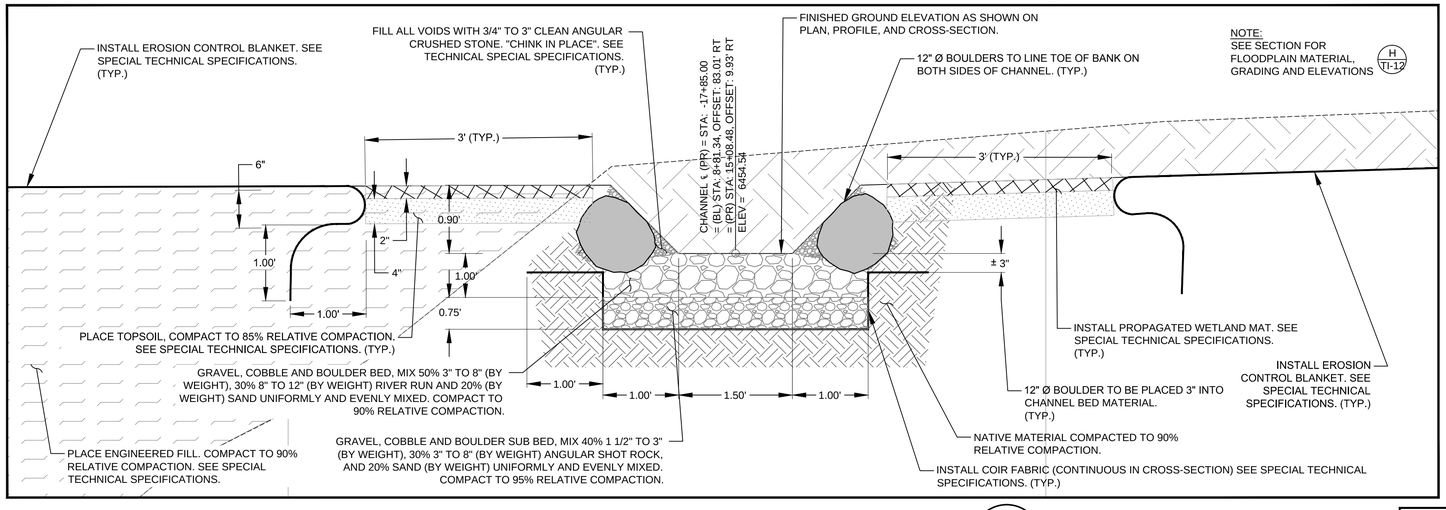
Sheet TI-11



SECTION STA: (EX)–17+85.00

H
TI–12

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW–UP, STA: (EX)–17+85.00

H–1
TI–12

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING

STATION: EX-17+85.00 TO 17+98.00

DATE
6/2012

Sheet TI-12
SHEET 71 OF 134

NOTES:

1. SEE SHEET DIV-2, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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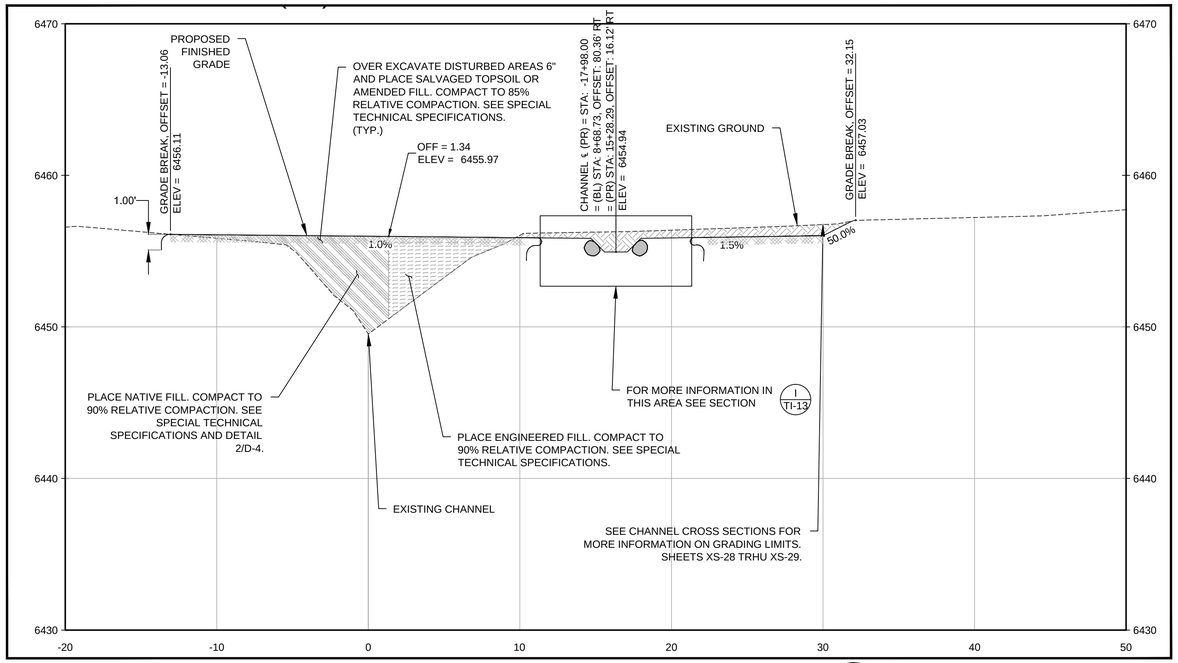


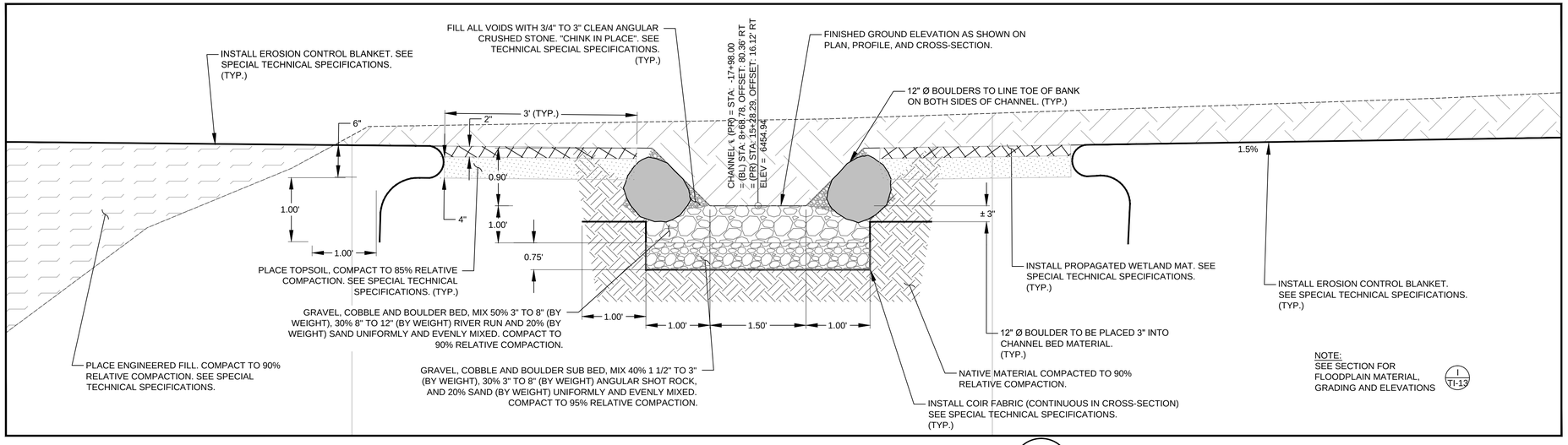
SECTION STA: (EX)−17+98.00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

I
TI−13

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.



BLOW−UP, STA: (EX)−17+98.00

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

I−1
TI−13

REVISIONS			
MARK	DATE	BY	

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

CHANNEL CROSSING

STATION: EX-17+85.00 TO 17+98.00

DATE
6/2012

Sheet TI-13
SHEET 72 OF 134

ALL WORK ON THIS SHEET AND ASSOCIATED CROSS-SECTIONS SHALL BE PERFORMED IN PHASE 3

NOTES:

1. SEE SHEET DIV-3, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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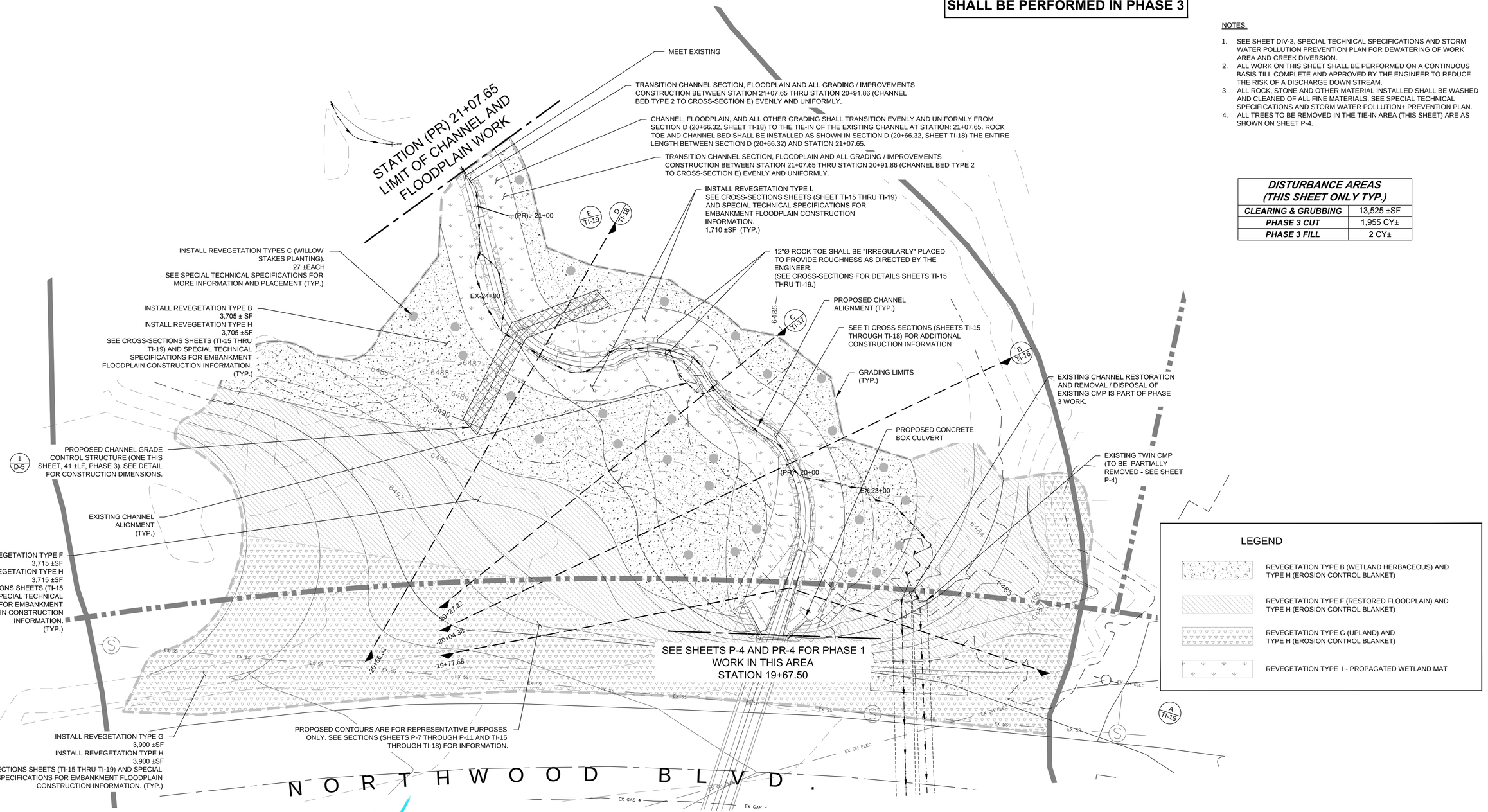
4. ALL TREES TO BE REMOVED IN THE TIE-IN AREA (THIS SHEET) ARE AS SHOWN ON SHEET P-4.

DISTURBANCE AREAS (THIS SHEET ONLY TYP.)	
CLEARING & GRUBBING	13,525 ±SF
PHASE 3 CUT	1,955 CY±
PHASE 3 FILL	2 CY±



REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
10 0 10

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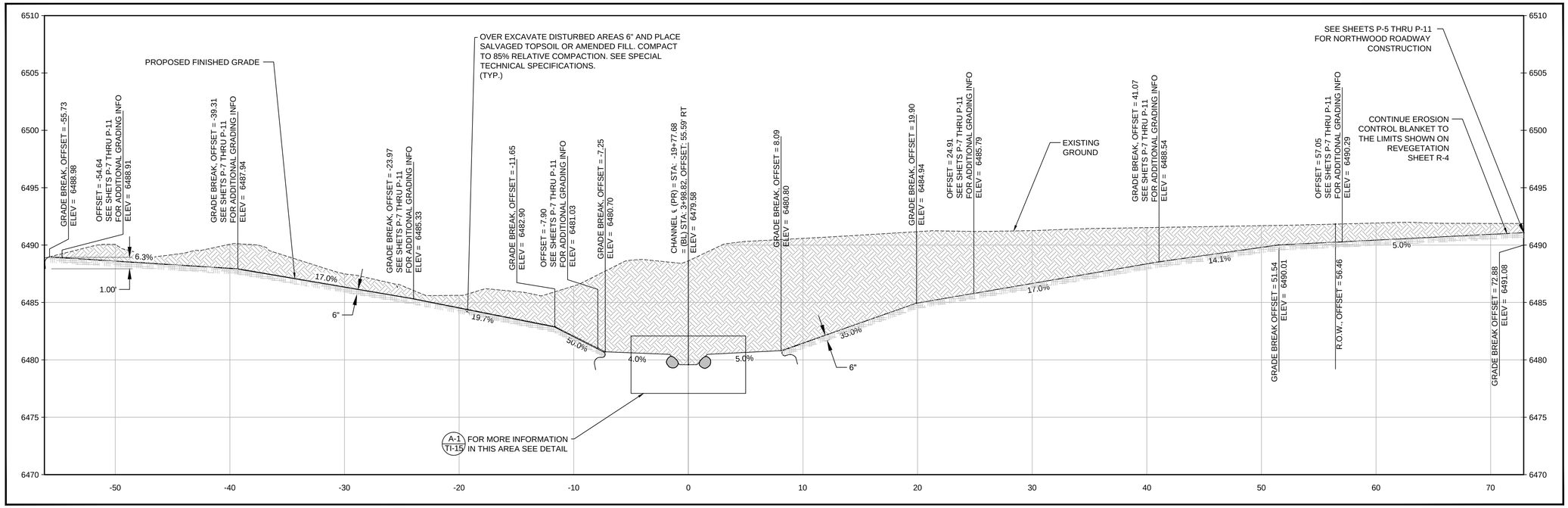
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
UPSTREAM TIE IN

DATE
6/2012

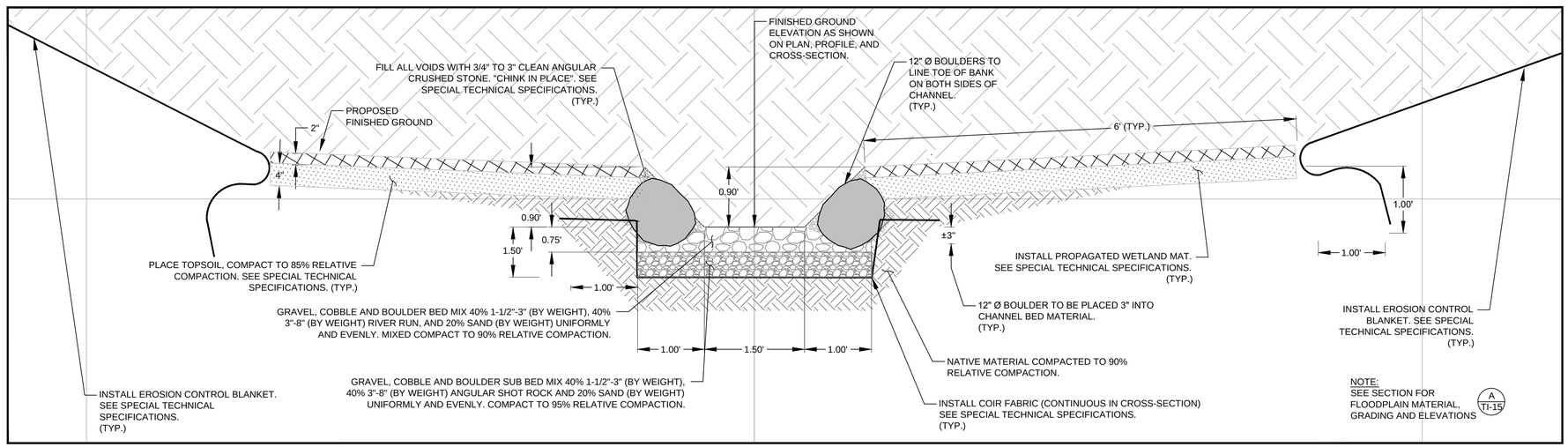
Sheet TI-14
SHEET 73 OF 134



SECTION STA: (PR)−19+77.68

A / TI−15

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'



BLOW−UP, STA: (PR)−19+77.68

A−1 / TI−15

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.

NOTES:

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REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
5 0 5

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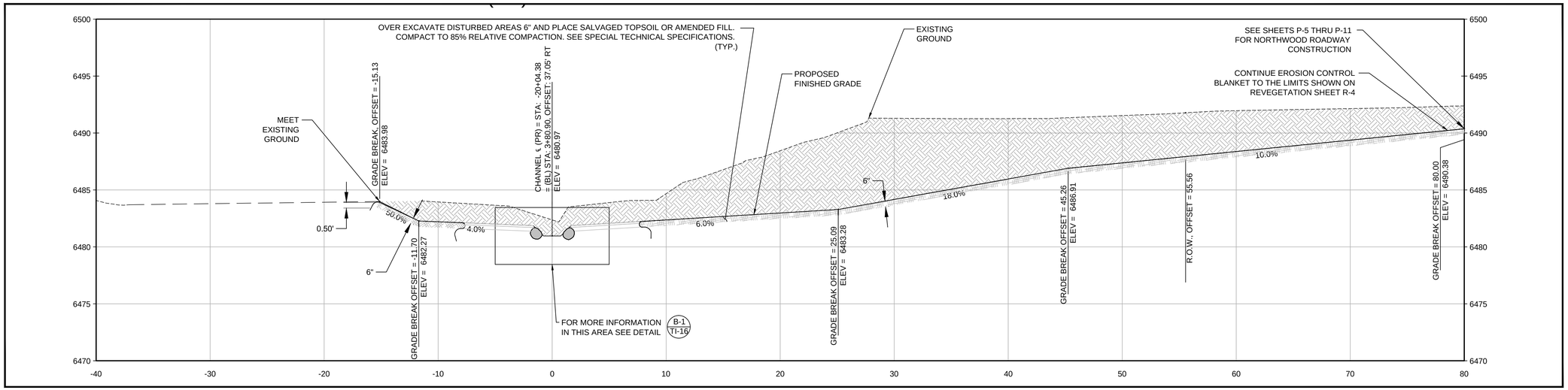
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

UPSTREAM TIE-IN

STATION: PR-19+77.68

DATE
6/2012

Sheet TI-15
SHEET 74 OF 134



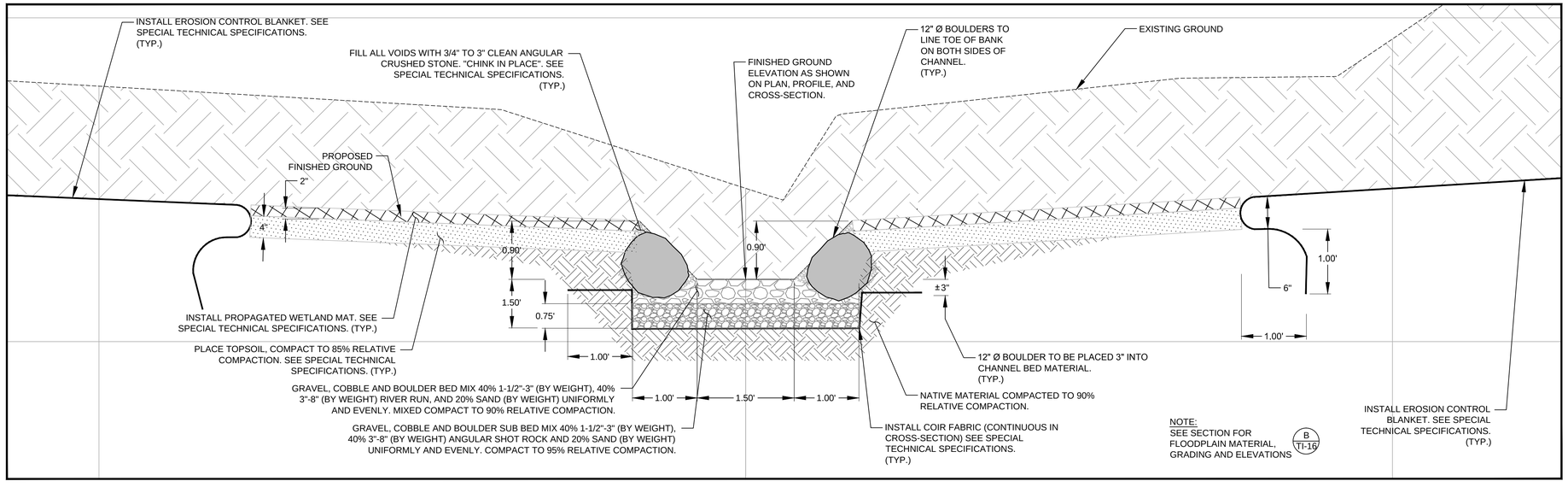
SECTION STA: (PR)–20+04.38

B / TI–16

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.



NOTE: SEE SECTION FOR FLOODPLAIN MATERIAL, GRADING AND ELEVATIONS B / TI-16

BLOW–UP, STA: (PR)–20+04.38

B–1 / TI–16

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-3, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
3. ALL ROCK, STONE AND OTHER MATERIAL INSTALLED SHALL BE WASHED AND CLEANED OF ALL FINE MATERIALS, SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION+ PREVENTION PLAN.
4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
5 0 5

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STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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P.O. Box 1533
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(775) 775-9069 Main

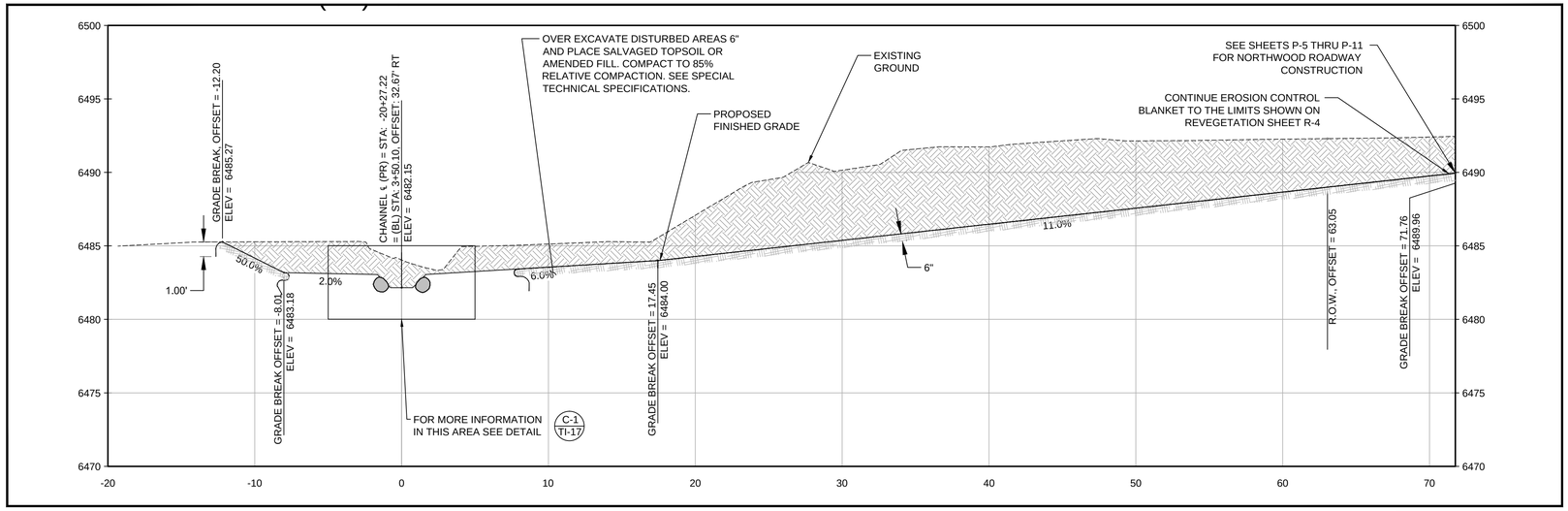
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

UPSTREAM TIE-IN
STATION: PR-20+04.38

DATE 6/2012

Sheet TI-16
SHEET 75 OF 134



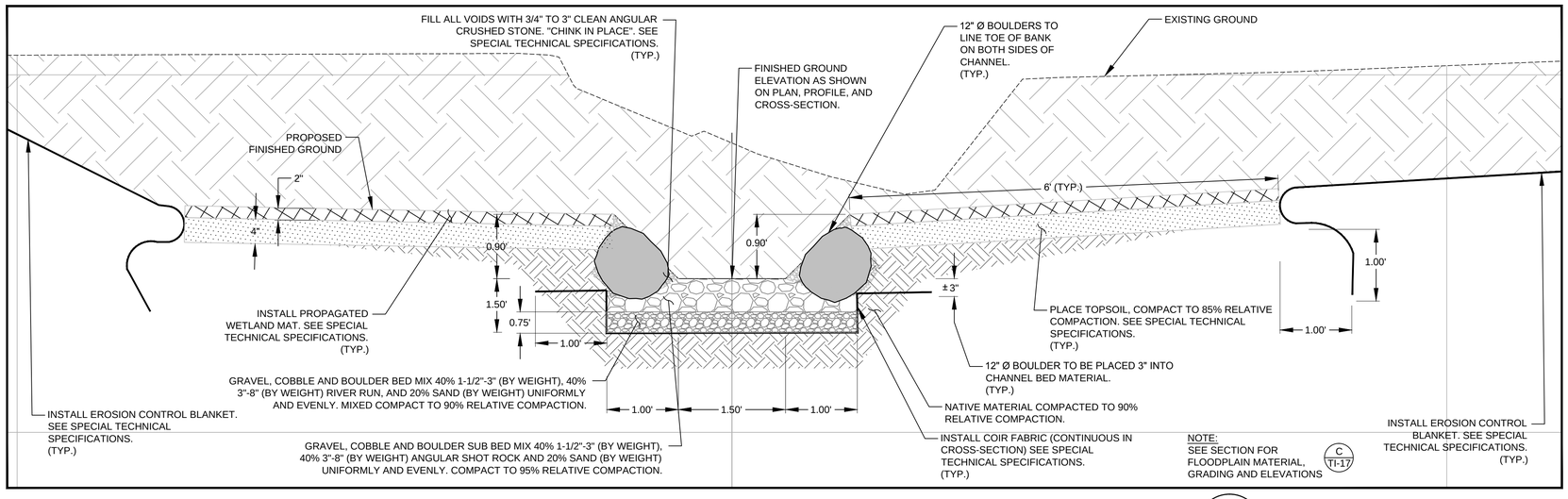
SECTION STA: (PR)–20+27.22

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

C
TI–17

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.



BLOW–UP, STA: (PR)–20+27.22

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

C–1
TI–17

NOTES:

1. SEE SHEET DIV-3, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
2. ALL WORK ON THIS SHEET SHALL BE PERFORMED ON A CONTINUOUS BASIS TILL COMPLETE AND APPROVED BY THE ENGINEER TO REDUCE THE RISK OF A DISCHARGE DOWN STREAM.
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4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS

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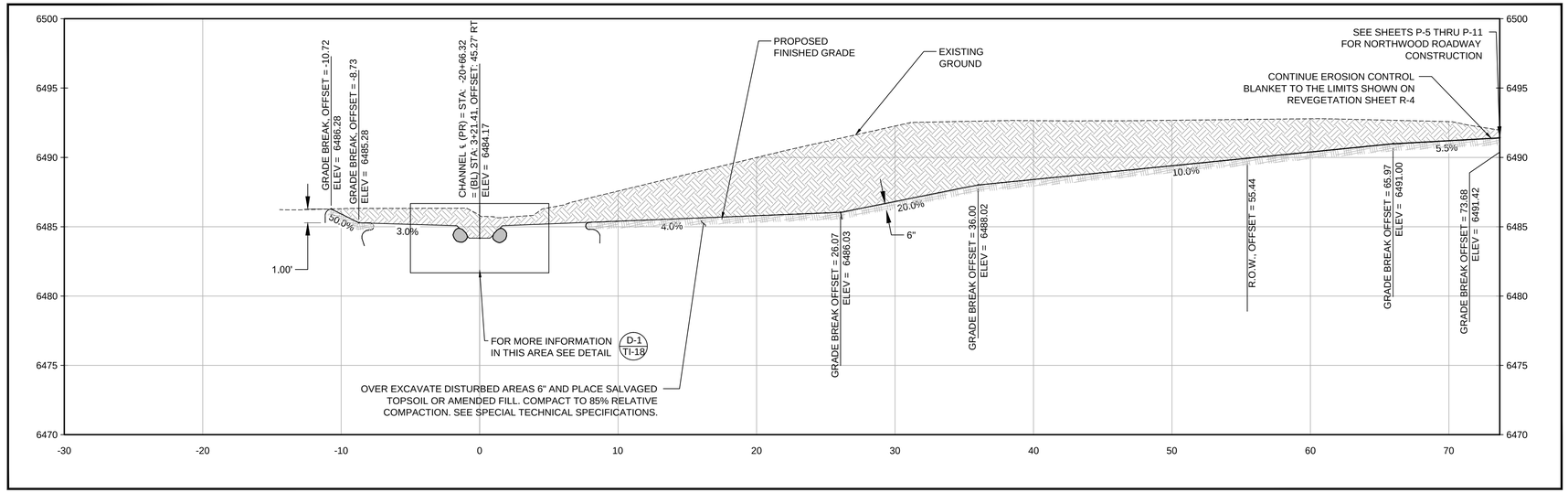
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

UPSTREAM TIE-IN
STATION: PR-20+27.22

DATE
6/2012

Sheet TI-17
SHEET 76 OF 134



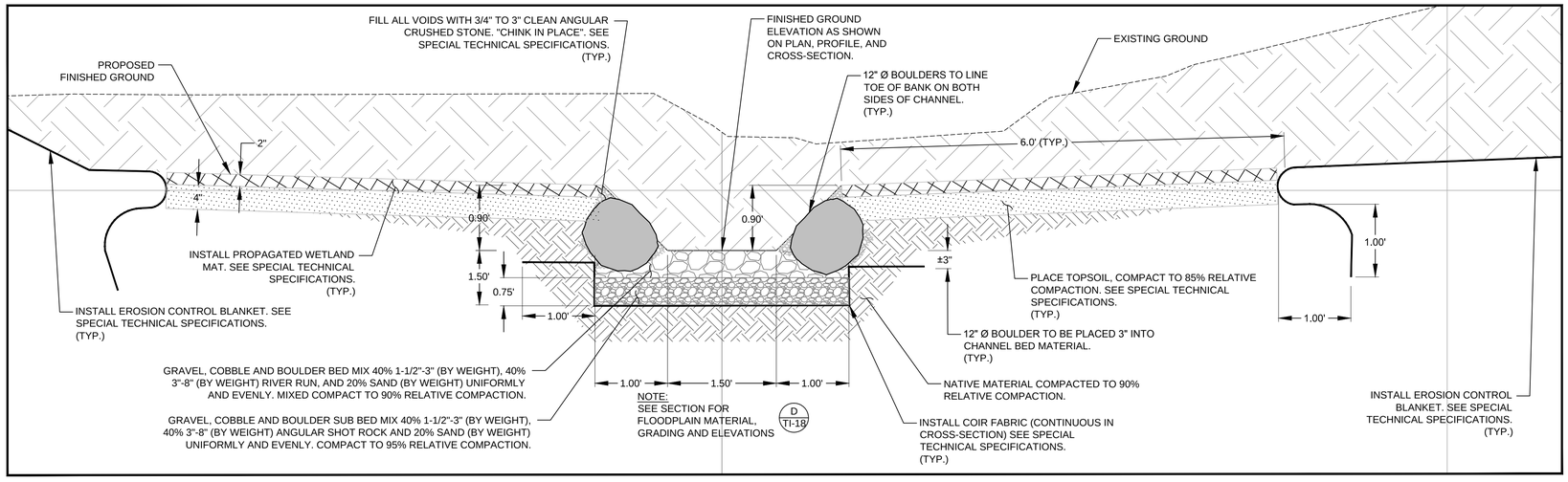
SECTION STA: (PR)–20+66.32

D / TI–18

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 5'

LEGEND

- EXISTING GROUND
- PROPOSED FINISHED GRADE
- PROPOSED CUT MATERIAL
- PROPOSED NATIVE FILL
- NATIVE MATERIAL
- PROPAGATED WETLAND MAT
- PROPOSED ENGINEERED FILL
- PLACED TOPSOIL, 85% R.C.



BLOW–UP, STA: (PR)–20+66.32

D–1 / TI–18

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 1'

NOTES:

1. SEE SHEET DIV-3, SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DEWATERING OF WORK AREA AND CREEK DIVERSION.
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4. WHERE NOTED, TOPSOIL CAN BE DESIGNATED AS SALVAGED TOPSOIL, IMPORTED TOPSOIL, OR AMENDED FILL.

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
5 0 5

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

UPSTREAM TIE-IN

STATION: PR-20+66.32

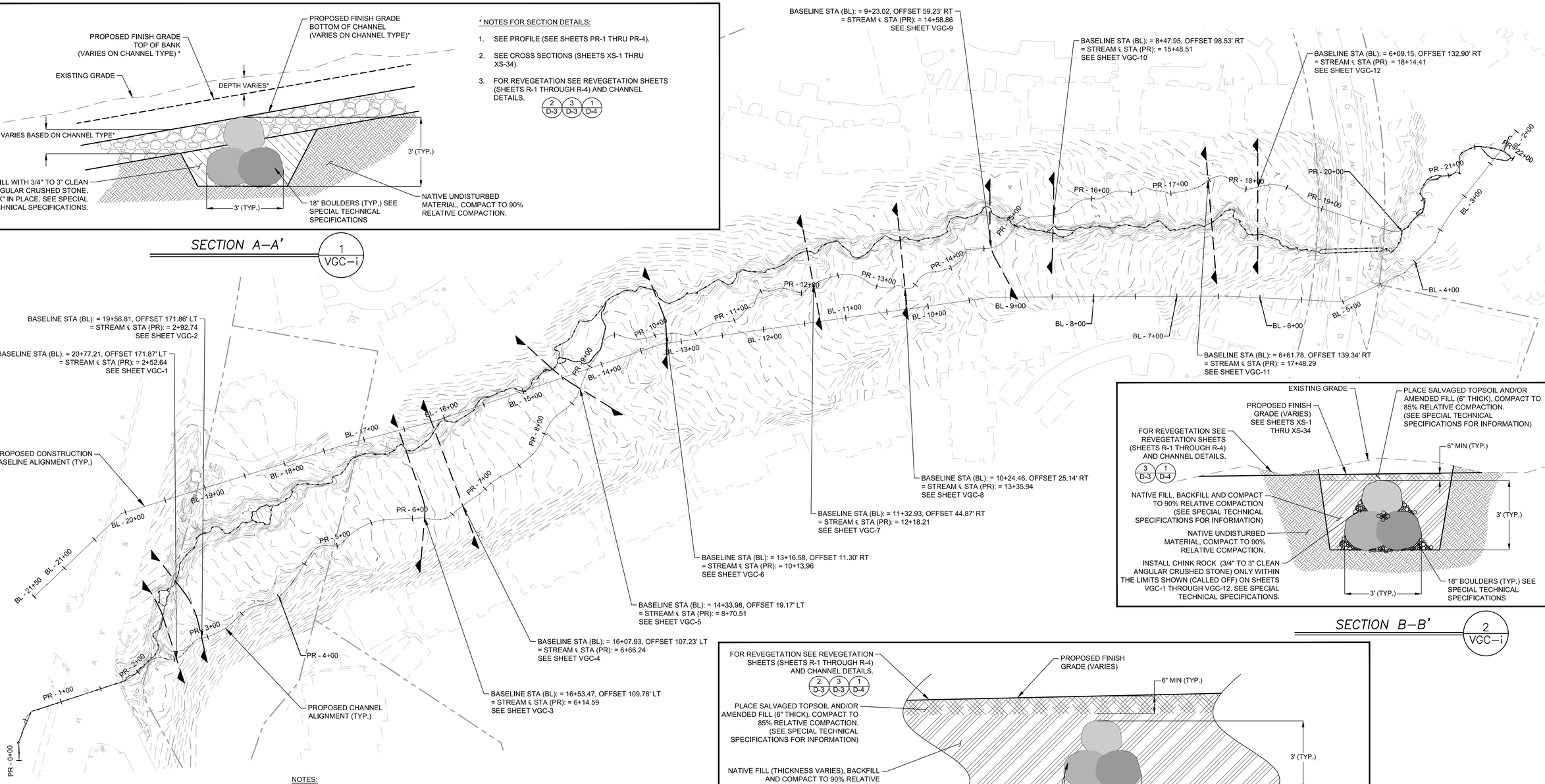
DATE
6/2012

Sheet TI-18
SHEET 77 OF 134

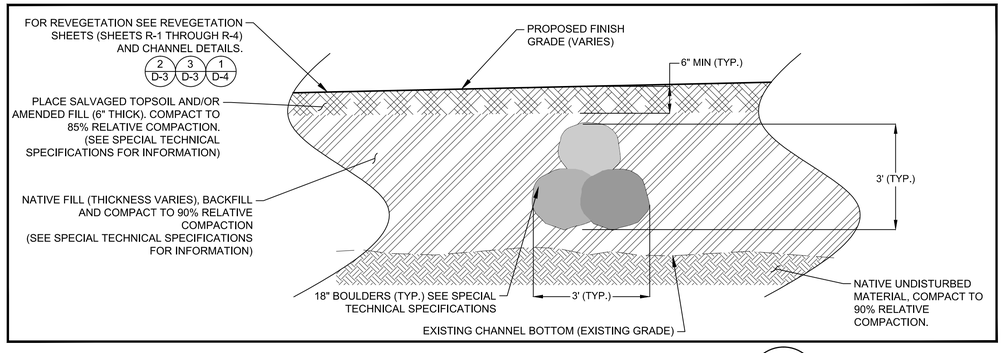
* NOTES FOR SECTION DETAILS:

1. SEE PROFILE (SEE SHEETS PR-1 THRU PR-4).
2. SEE CROSS SECTIONS (SHEETS XS-1 THRU XS-34).
3. FOR REVEGETATION SEE REVEGETATION SHEETS (SHEETS R-1 THROUGH R-4) AND CHANNEL DETAILS. (2 D-3) (3 D-3) (1 D-4)

SECTION A–A' (1 VGC–i)



SECTION B–B' (2 VGC–i)



SECTION C–C' (3 VGC–i)

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. SECTIONS A-A, B-B, AND C-C ARE TYPICAL DETAILS. SEE SHEETS VGC-1 THROUGH VGC-12 FOR LOCATIONS AND ADDITIONAL INFORMATION.

LEGEND

- PROPOSED ALIGNMENT
- CROSS SECTIONS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
60 30 0 60

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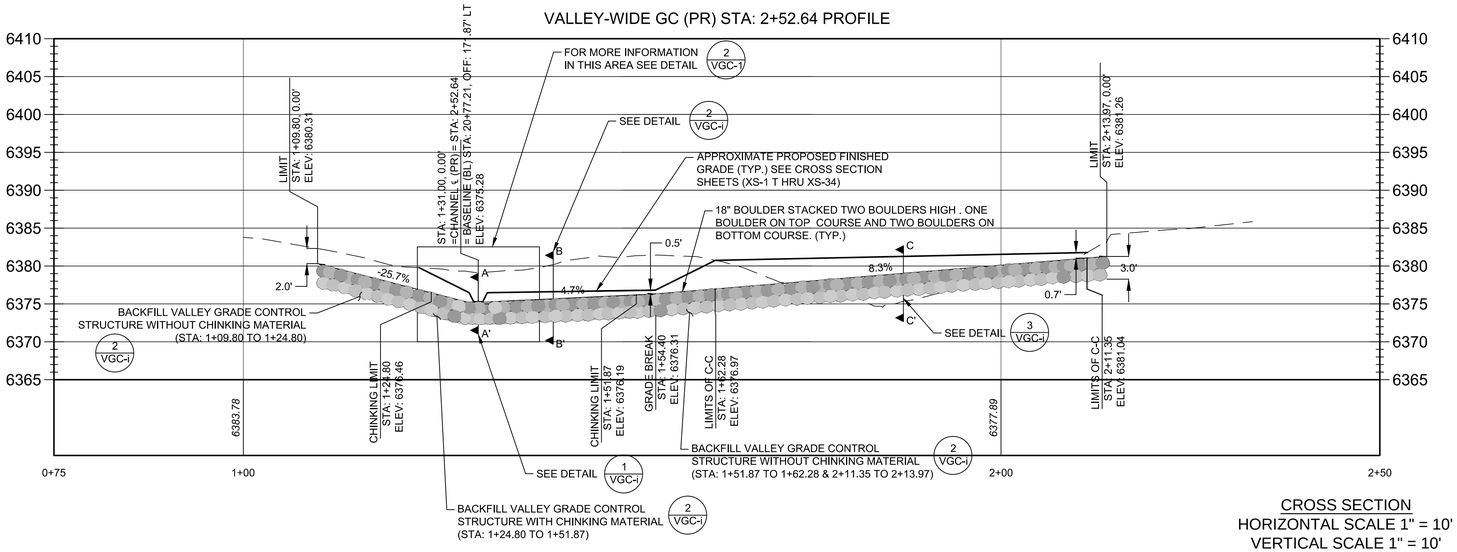
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY GRADE CONTROL(S) INDEX AND DETAIL SHEET

DATE
6/2012

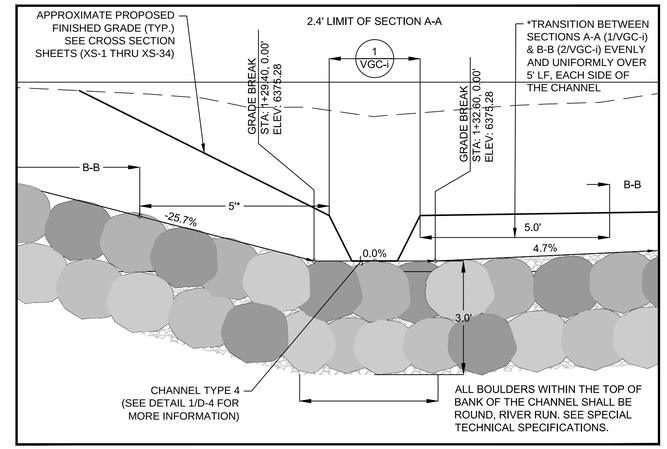
Sheet VGC-i
SHEET 78 OF 134



CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

NTS — 1 VGC–1



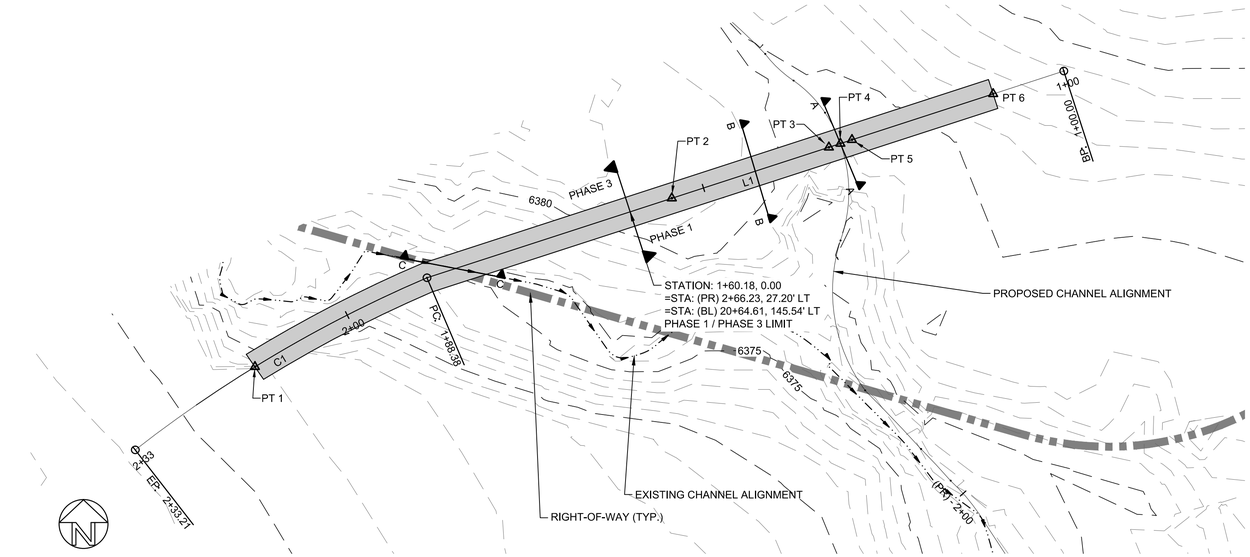
BLOW–UP AREA

2 VGC–1

CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.



GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
C1	44.83	S59° 27' 14.25"W	(14767516.94, 2239126.11)	(14767494.22, 2239087.61)
L1	88.38	S72° 01' 24.39"W	(14767544.21, 2239210.18)	(14767516.94, 2239126.11)

Point Table				
Point #	Northing	Easting	Elevation	Description
1	14767505.18	2239103.41	6381.26	PT 1
2	14767527.42	2239158.43	6376.31	PT 2
3	14767534.15	2239179.17	6375.28	PT 3
4	14767534.65	2239180.69	6375.28	PT 4
5	14767535.14	2239182.21	6375.28	PT 5
6	14767541.19	2239200.86	6380.31	PT 6

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No. 16093

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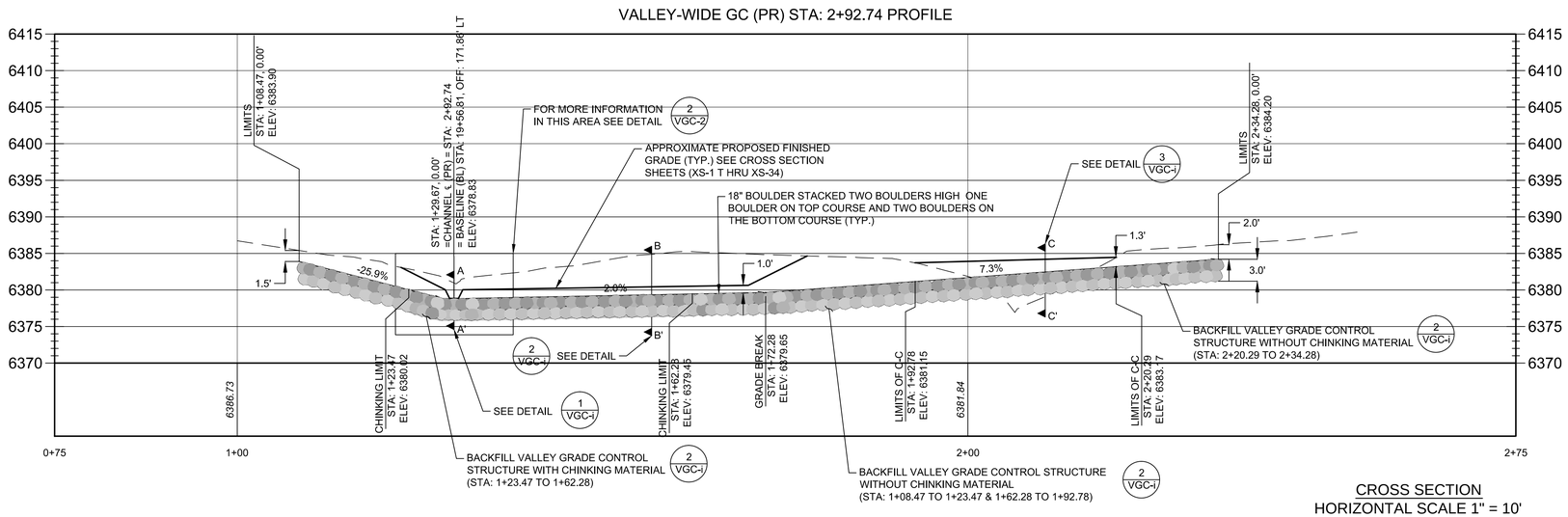
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-1
SHEET 79 OF 134

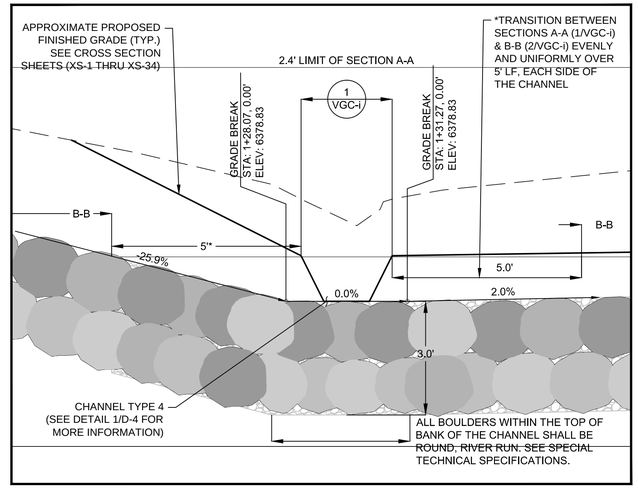


CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

1/VGC–2

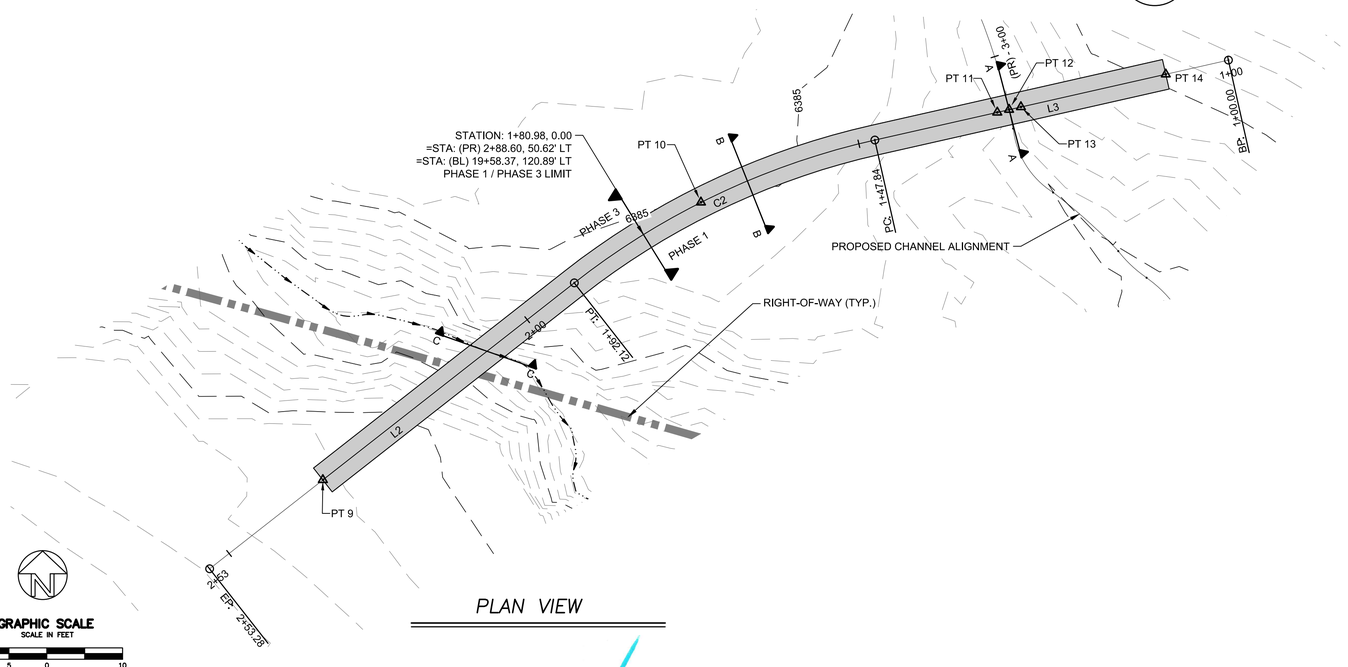
NTS



BLOW–UP AREA

2/VGC–2

CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'



PLAN VIEW

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	61.16	S51° 54' 10.90"W	(14767542.28, 2239098.96)	(14767504.55, 2239050.84)
C2	44.28	S64° 35' 19.80"W	(14767561.13, 2239138.63)	(14767542.28, 2239098.96)
L3	47.84	S77° 16' 28.71"W	(14767571.66, 2239185.30)	(14767561.13, 2239138.63)

Point Table				
Point #	Northing	Easting	Elevation	Description
9	14767516.27	2239065.79	6384.20	PT 9
10	14767552.90	2239115.69	6379.65	PT 10
11	14767564.78	2239154.80	6378.83	PT 11
12	14767565.13	2239156.36	6378.83	PT 12
13	14767565.48	2239157.92	6378.83	PT 13
14	14767569.80	2239177.04	6383.90	PT 14

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No. 16993

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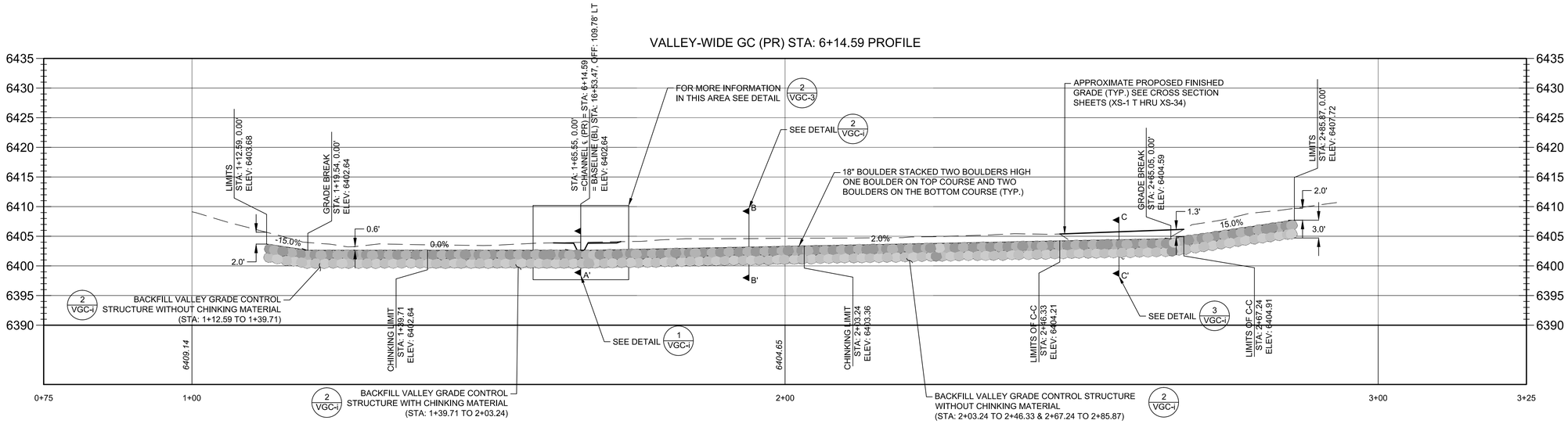
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-2

VALLEY-WIDE GC (PR) STA: 6+14.59 PROFILE

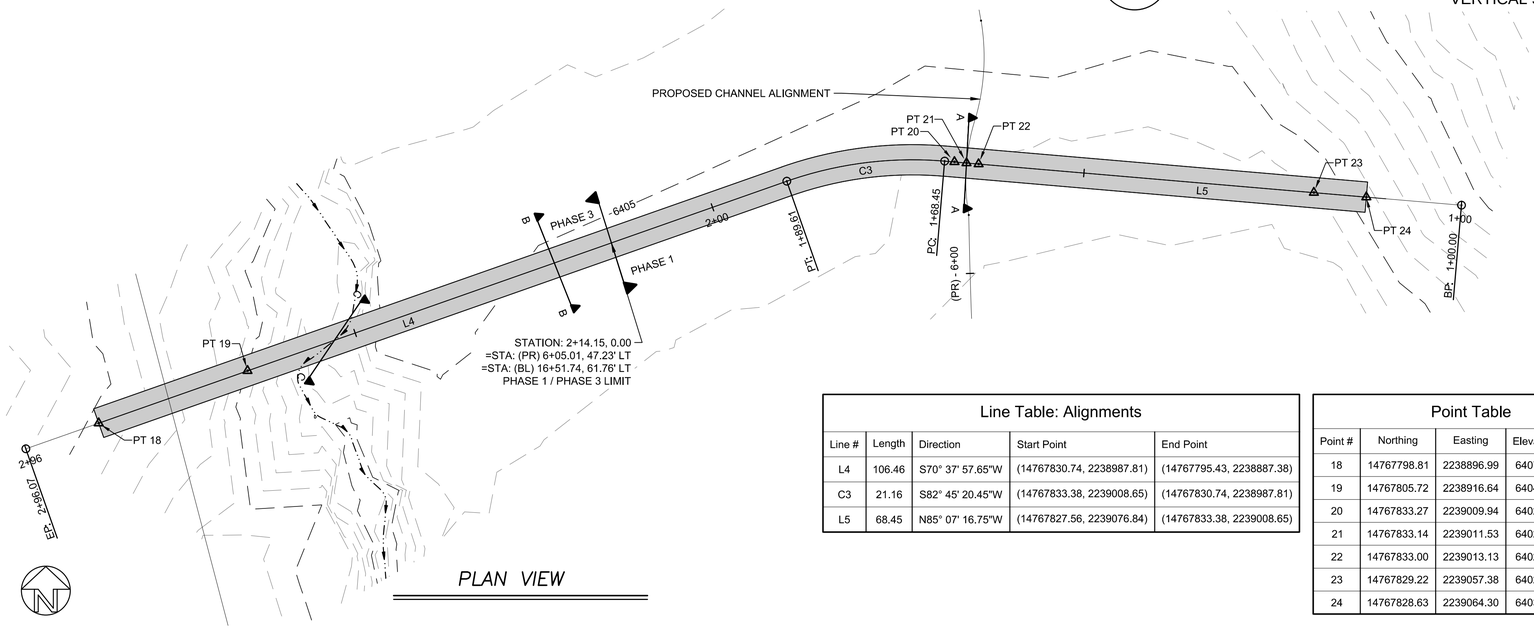


VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

NTS

1/VGC–3

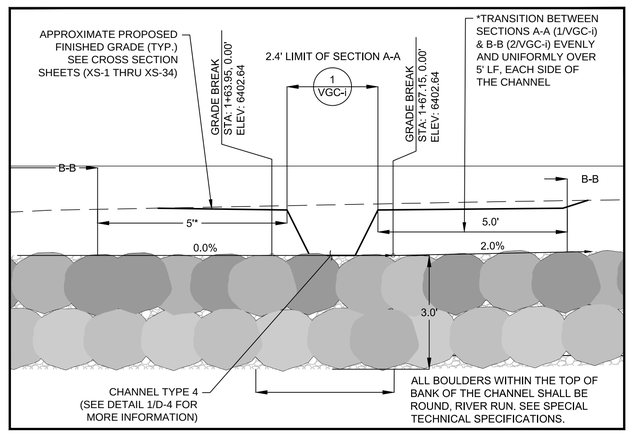
CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L4	106.46	S70° 37' 57.65"W	(14767830.74, 2238987.81)	(14767795.43, 2238887.38)
C3	21.16	S82° 45' 20.45"W	(14767833.38, 2239008.65)	(14767830.74, 2238987.81)
L5	68.45	N85° 07' 16.75"W	(14767827.56, 2239076.84)	(14767833.38, 2239008.65)

Point Table				
Point #	Northing	Easting	Elevation	Description
18	14767798.81	2238896.99	6407.72	PT 18
19	14767805.72	2238916.64	6404.59	PT 19
20	14767833.27	2239009.94	6402.64	PT 20
21	14767833.14	2239011.53	6402.64	PT 21
22	14767833.00	2239013.13	6402.64	PT 22
23	14767829.22	2239057.38	6402.64	PT 23
24	14767828.63	2239064.30	6403.68	PT 24



BLOW–UP AREA

2/VGC–3

CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

REVISIONS			
MARK	DATE	BY	

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CIVIL

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

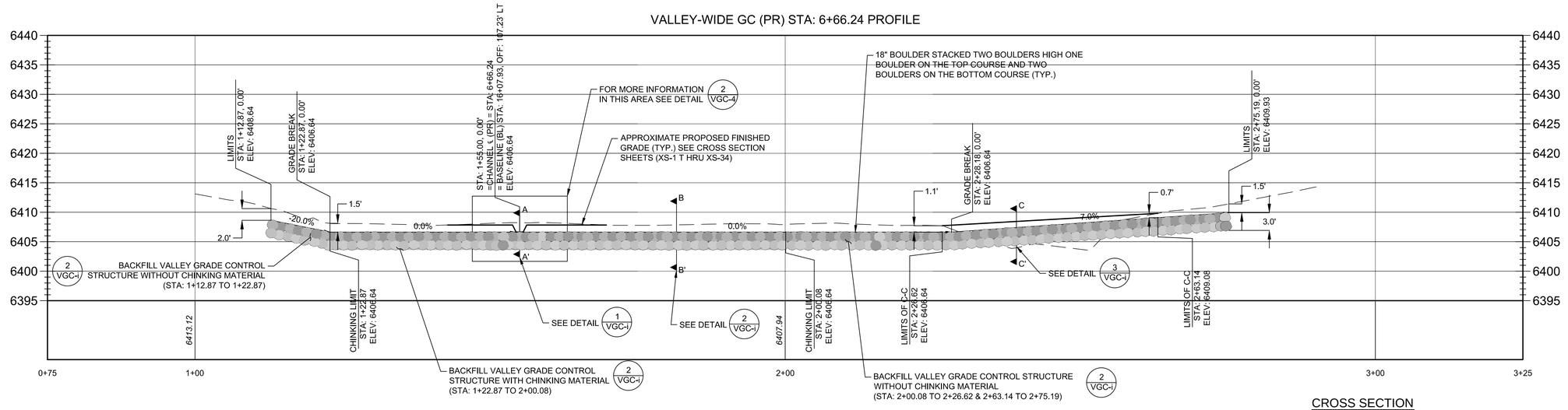
VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-3

SHEET 81 OF 134

VALLEY-WIDE GC (PR) STA: 6+66.24 PROFILE

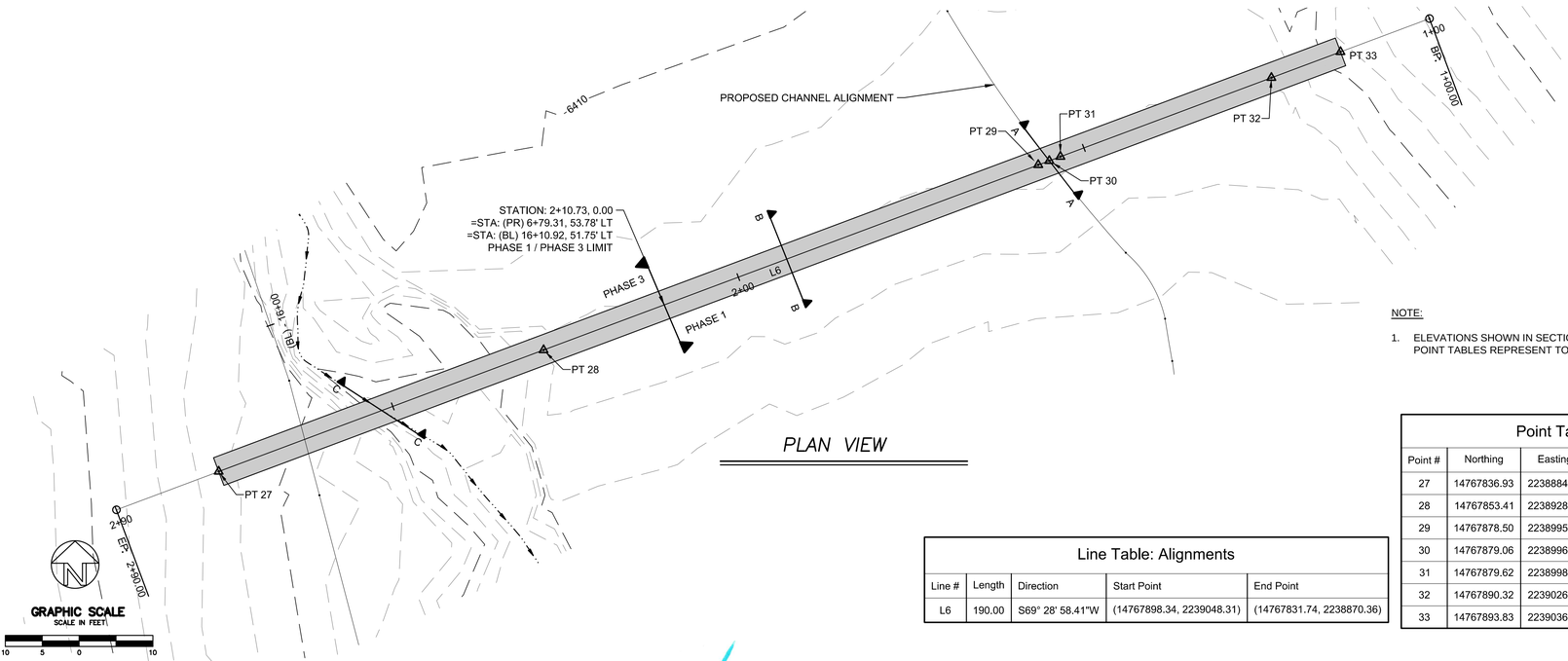


CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

NTS

1 VGC–4



PLAN VIEW

NOTE:

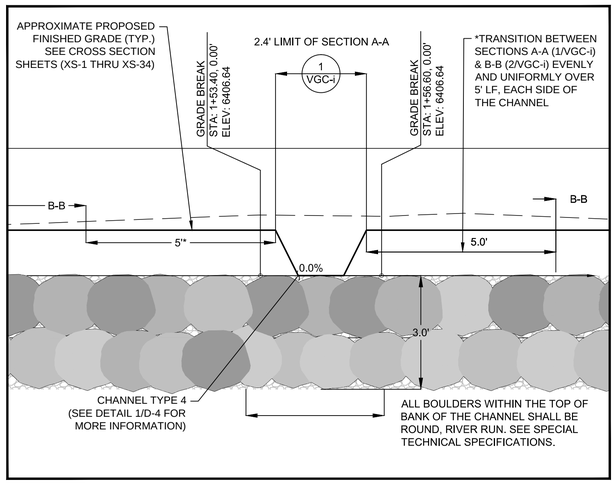
1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L6	190.00	S69° 28' 58.41"W	(14767898.34, 2239048.31)	(14767831.74, 2238870.36)

Point Table

Point #	Northing	Easting	Elevation	Description
27	14767836.93	2238884.23	6409.93	PT 27
28	14767853.41	2238928.26	6406.64	PT 28
29	14767878.50	2238995.30	6406.64	PT 29
30	14767879.06	2238996.79	6406.64	PT 30
31	14767879.62	2238998.29	6406.64	PT 31
32	14767890.32	2239026.89	6406.64	PT 32
33	14767893.83	2239036.25	6408.64	PT 33



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA

2 VGC–4

REVISIONS			
MARK	DATE	BY	

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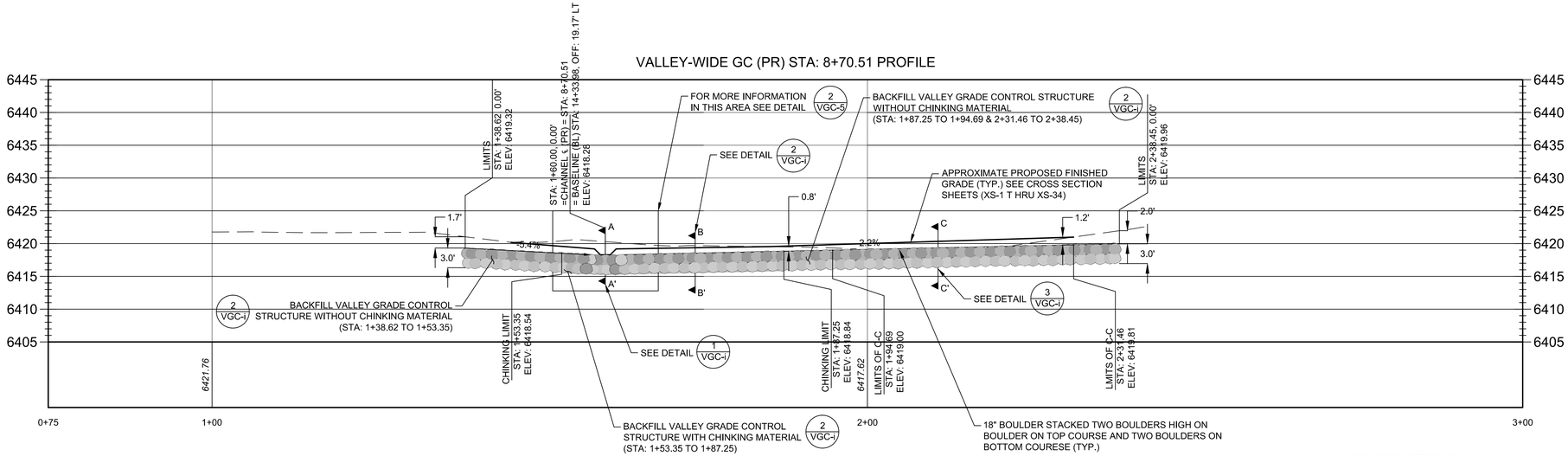
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

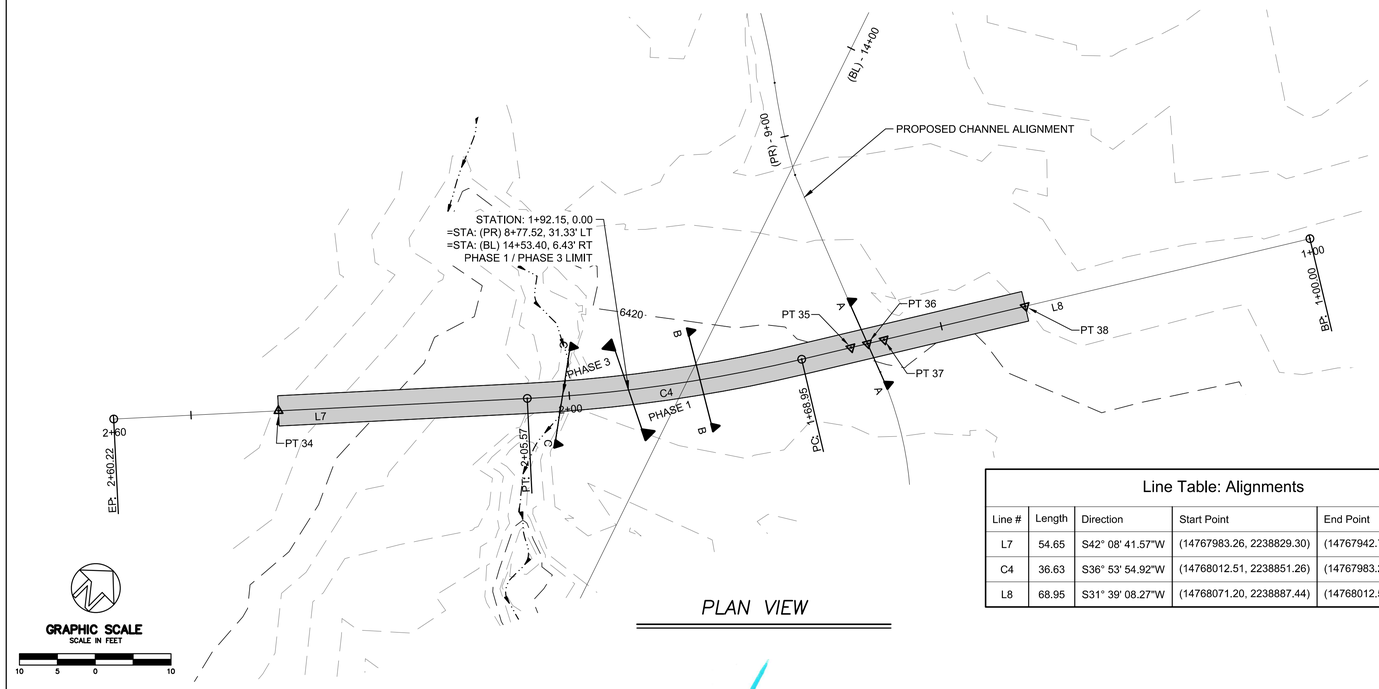
Sheet VGC-4
SHEET 82 OF 134



CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 3

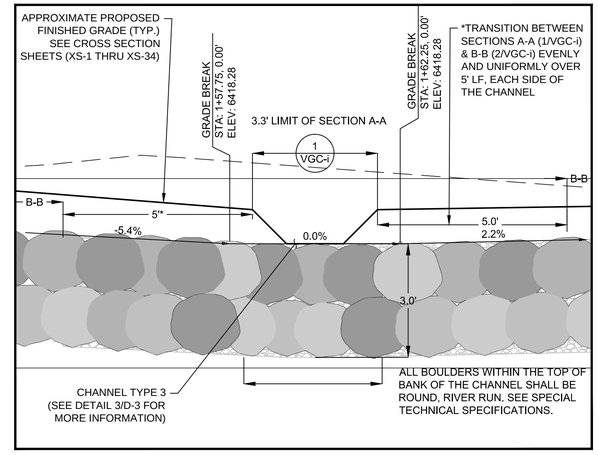
NTS — 1 VGC–5



PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L7	54.65	S42° 08' 41.57"W	(14767983.26, 2238829.30)	(14767942.74, 2238792.63)
C4	36.63	S36° 53' 54.92"W	(14768012.51, 2238851.26)	(14767983.26, 2238829.30)
L8	68.95	S31° 39' 08.27"W	(14768071.20, 2238887.44)	(14768012.51, 2238851.26)

Point Table				
Point #	Northing	Easting	Elevation	Description
34	14767958.88	2238807.24	6419.96	PT 34
35	14768018.21	2238854.77	6418.28	PT 35
36	14768020.12	2238855.96	6418.28	PT 36
37	14768022.04	2238857.14	6418.28	PT 37
38	14768038.32	2238867.17	6419.32	PT 38



BLOW–UP AREA

2 VGC–5

CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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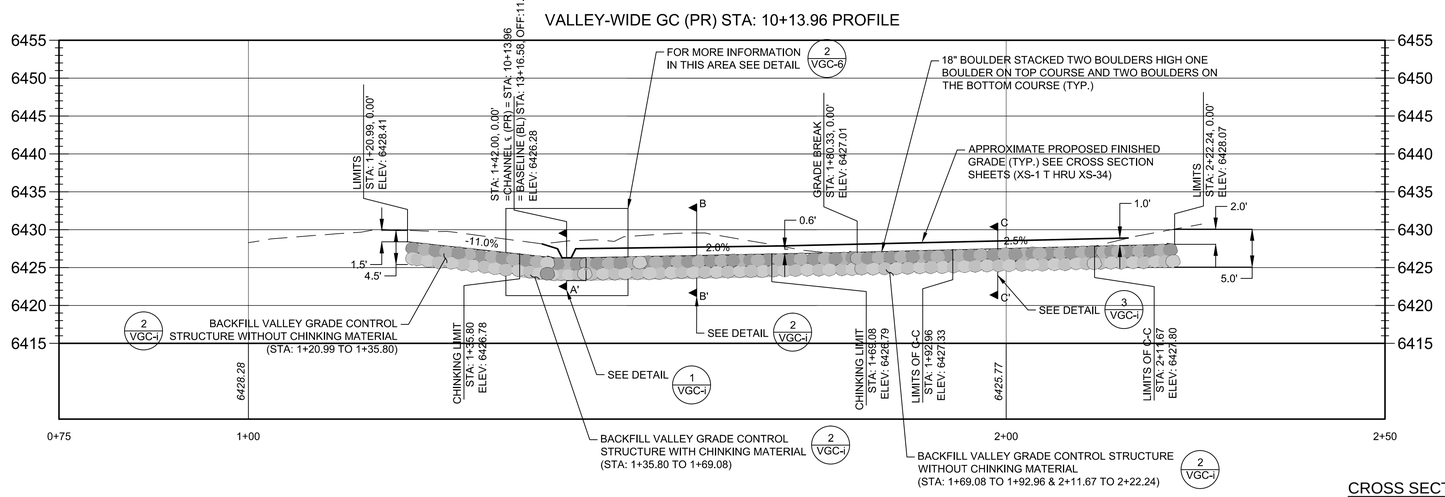
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

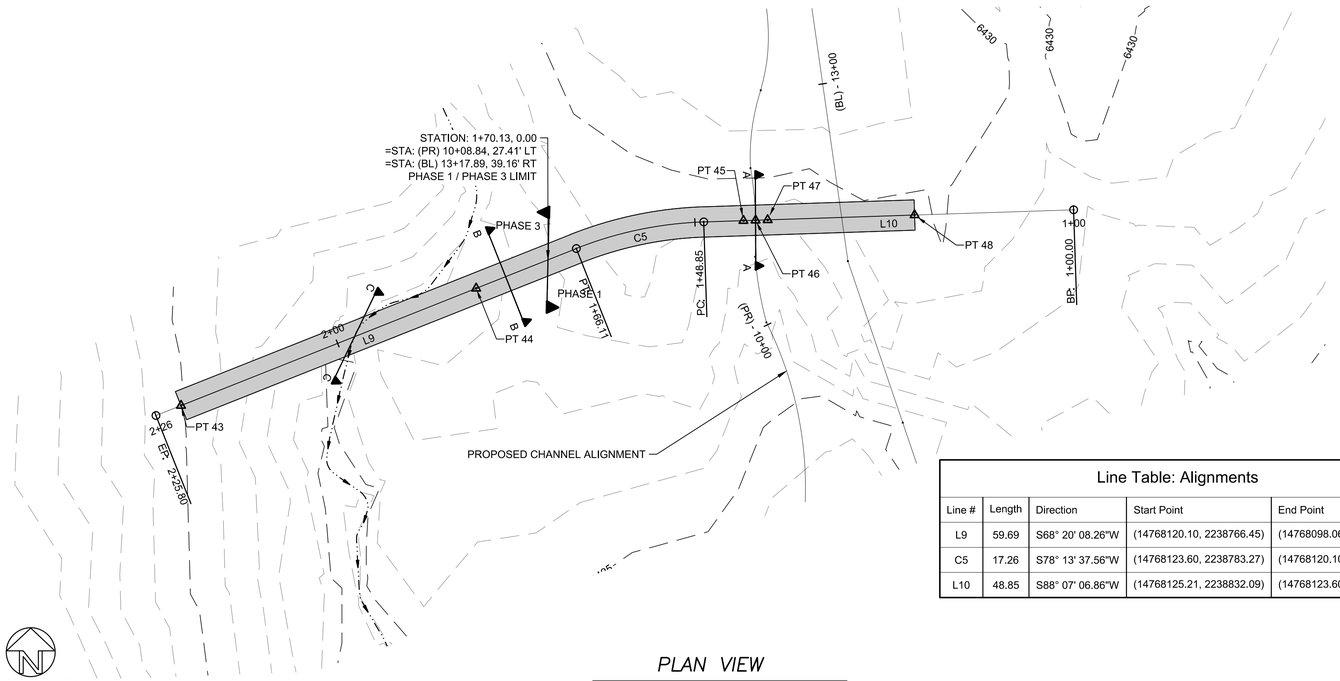
Sheet VGC-5
SHEET 83 OF 134



CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

NTS — 1 VGC–6



PLAN VIEW

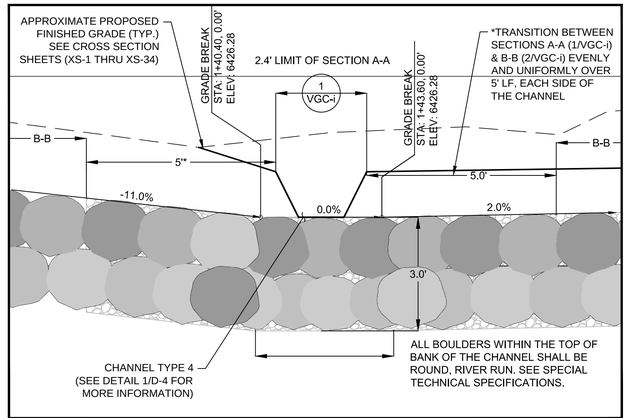
GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L9	59.69	S68° 20' 08.26"W	(14768120.10, 2238766.45)	(14768098.06, 2238710.98)
C5	17.26	S78° 13' 37.56"W	(14768123.60, 2238783.27)	(14768120.10, 2238766.45)
L10	48.85	S88° 07' 06.86"W	(14768125.21, 2238832.09)	(14768123.60, 2238783.27)

Point Table

Point #	Northing	Easting	Elevation	Description
43	14768099.38	2238714.29	6428.07	PT 43
44	14768114.85	2238753.24	6427.01	PT 44
45	14768123.78	2238788.51	6426.28	PT 45
46	14768123.83	2238790.11	6426.28	PT 46
47	14768123.88	2238791.71	6426.28	PT 47
48	14768124.52	2238811.11	6428.41	PT 48



BLOW–UP AREA

CROSS SECTION — 2 VGC–6
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp. 12/31/13 — CIVIL — No. 16993

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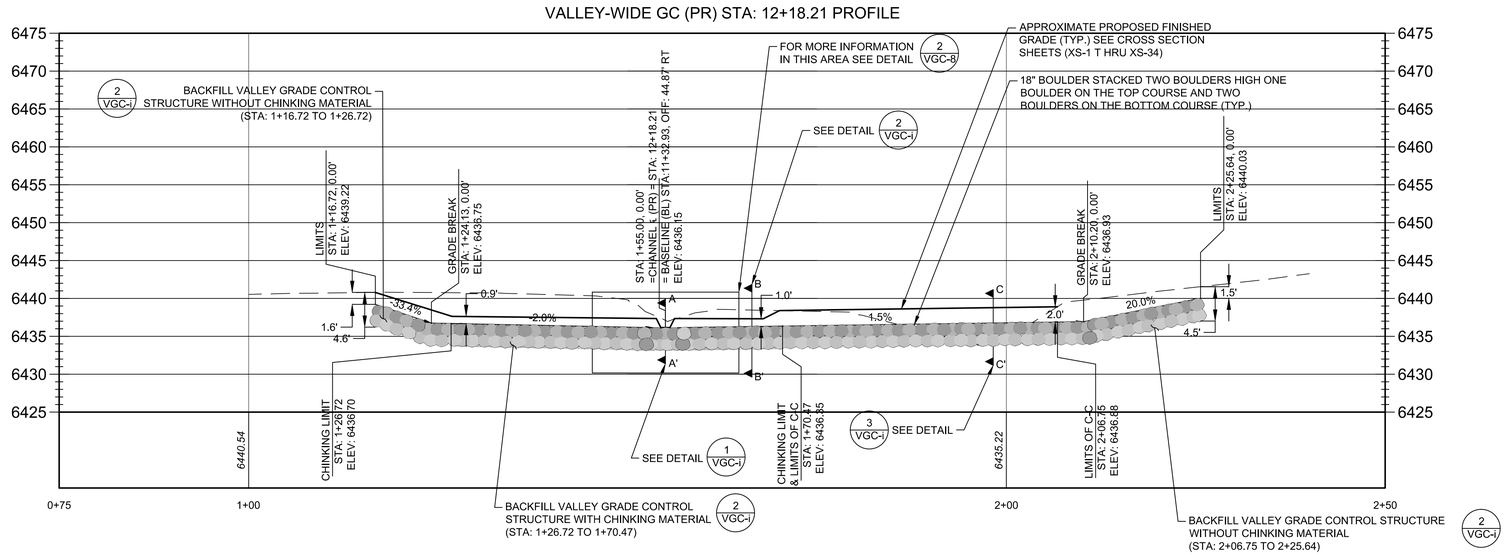
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE 6/2012

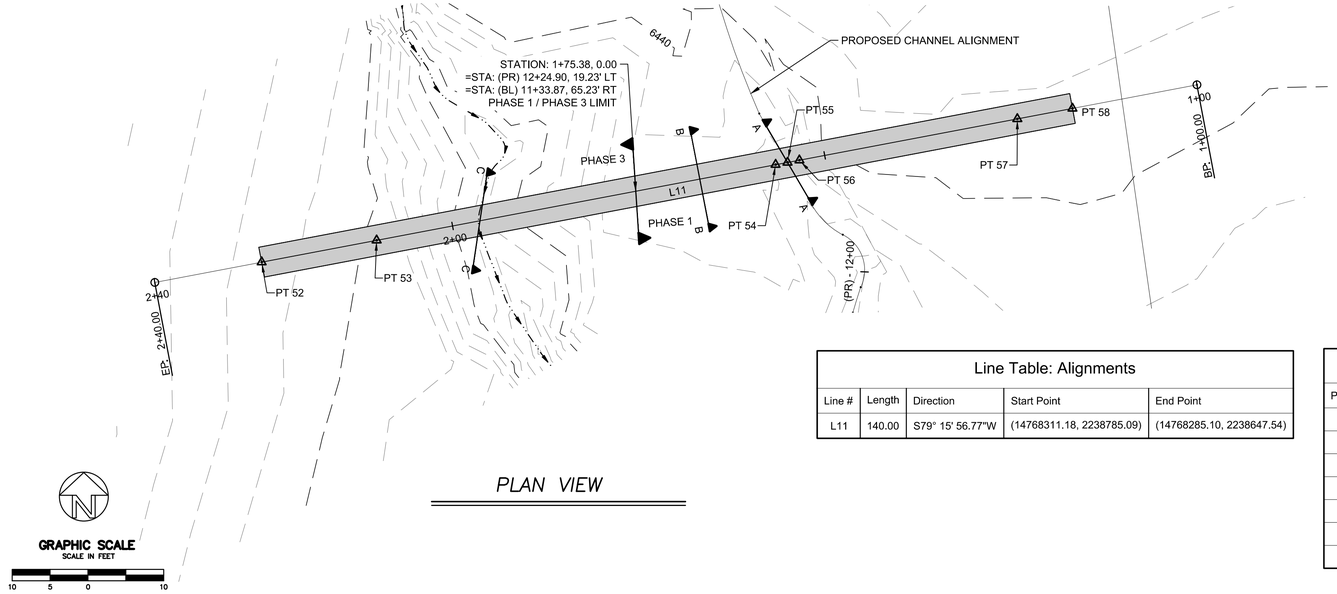
Sheet VGC-6



VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4 — 1 VGC–7

NTS

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



PLAN VIEW

GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

NOTE:

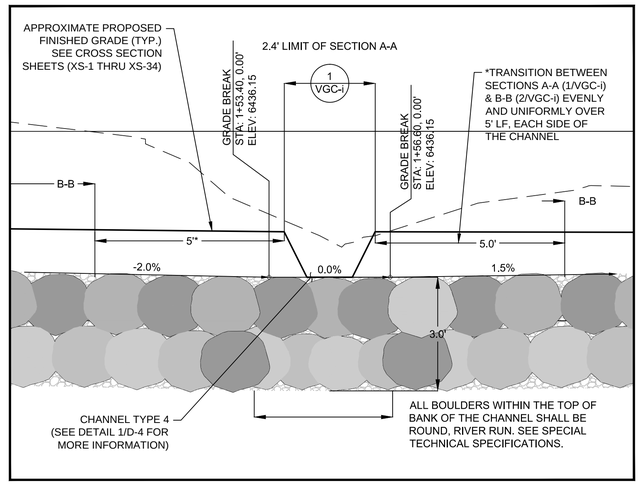
1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L11	140.00	S79° 15' 56.77"W	(14768311.18, 2238785.09)	(14768285.10, 2238647.54)

Point Table

Point #	Northing	Easting	Elevation	Description
52	14768287.78	2238661.65	6440.03	PT 52
53	14768290.65	2238676.82	6436.93	PT 53
54	14768300.64	2238729.48	6436.15	PT 54
55	14768300.93	2238731.06	6436.15	PT 55
56	14768301.23	2238732.63	6436.15	PT 56
57	14768306.68	2238761.39	6436.75	PT 57
58	14768308.06	2238768.67	6439.22	PT 58



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA — 2 VGC–7

REVISIONS			
MARK	DATE	BY	

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STEPHEN H. PECK
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CIVIL
No. 16993

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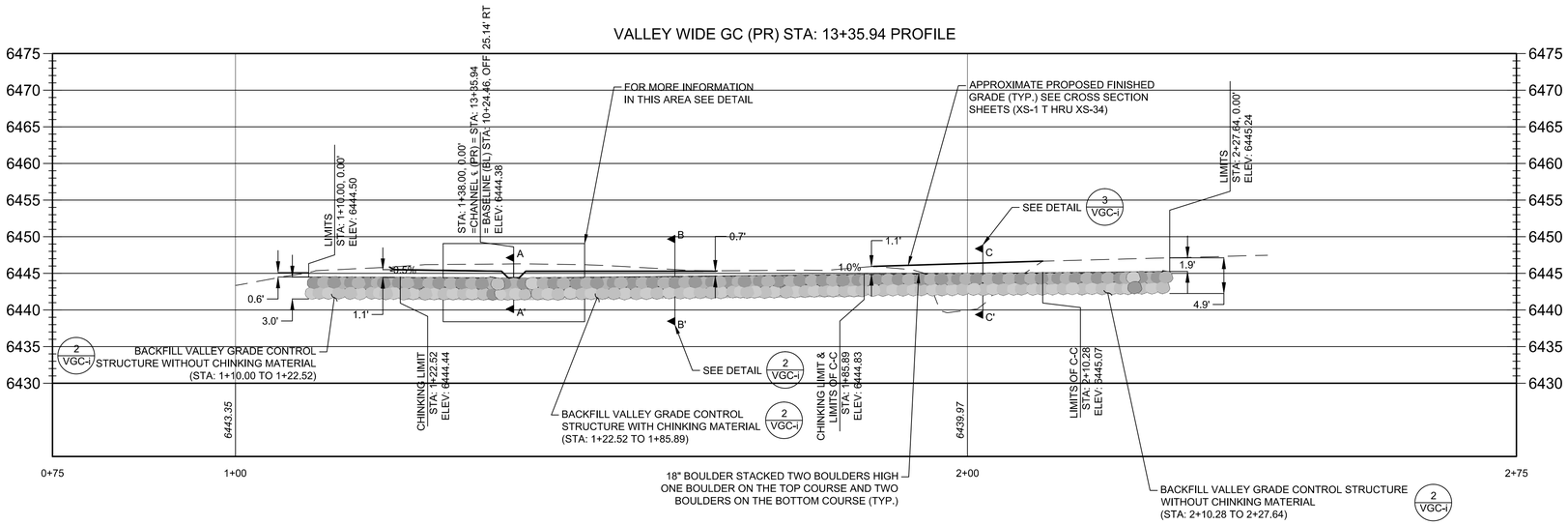
VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-7

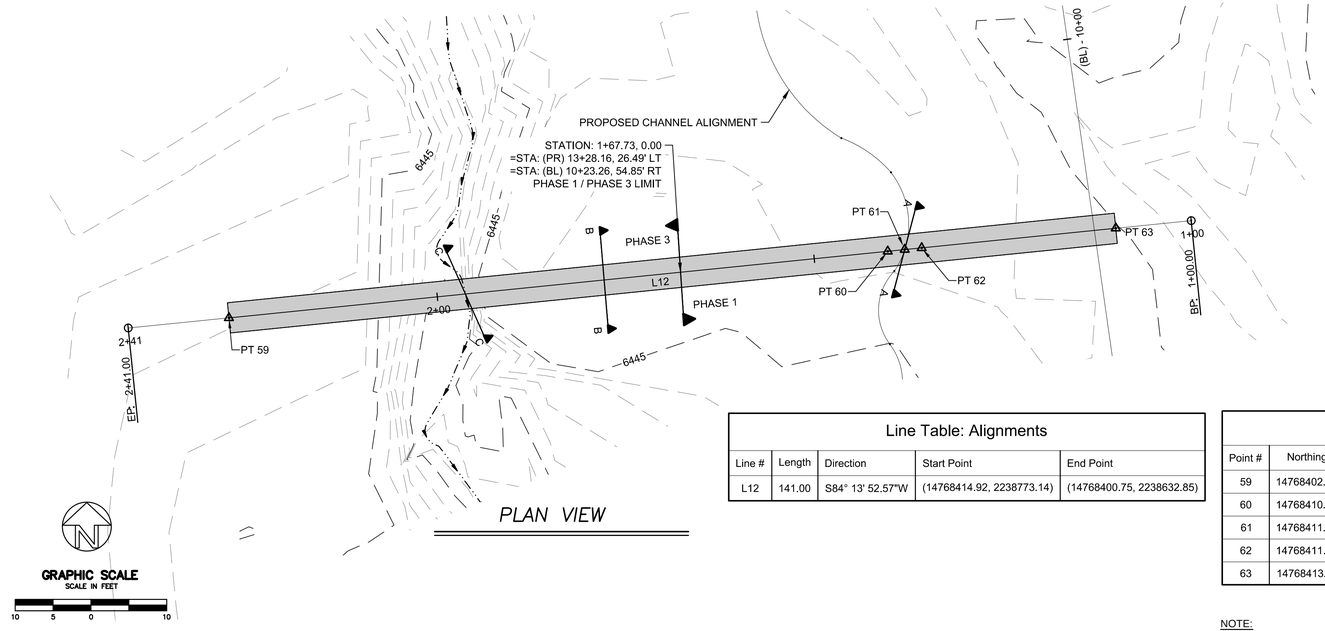
SHEET 85 OF 134



VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 2 — 1 / VGC–8

NTS

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



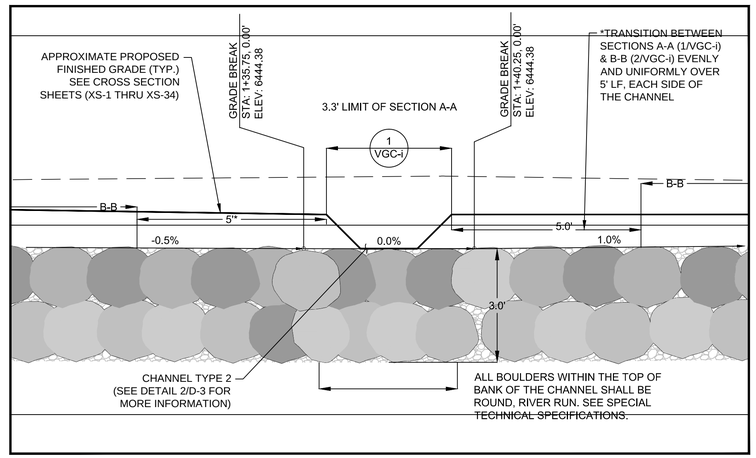
PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L12	141.00	S84° 13' 52.57"W	(14768414.92, 2238773.14)	(14768400.75, 2238632.85)

Point Table				
Point #	Northing	Easting	Elevation	Description
59	14768402.09	2238646.15	6445.24	PT 59
60	14768410.87	2238733.09	6444.38	PT 60
61	14768411.10	2238735.33	6444.38	PT 61
62	14768411.32	2238737.57	6444.39	PT 62
63	14768413.91	2238763.19	6444.50	PT 63

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA — 2 / VGC–8

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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CIVIL
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STATE OF NEVADA

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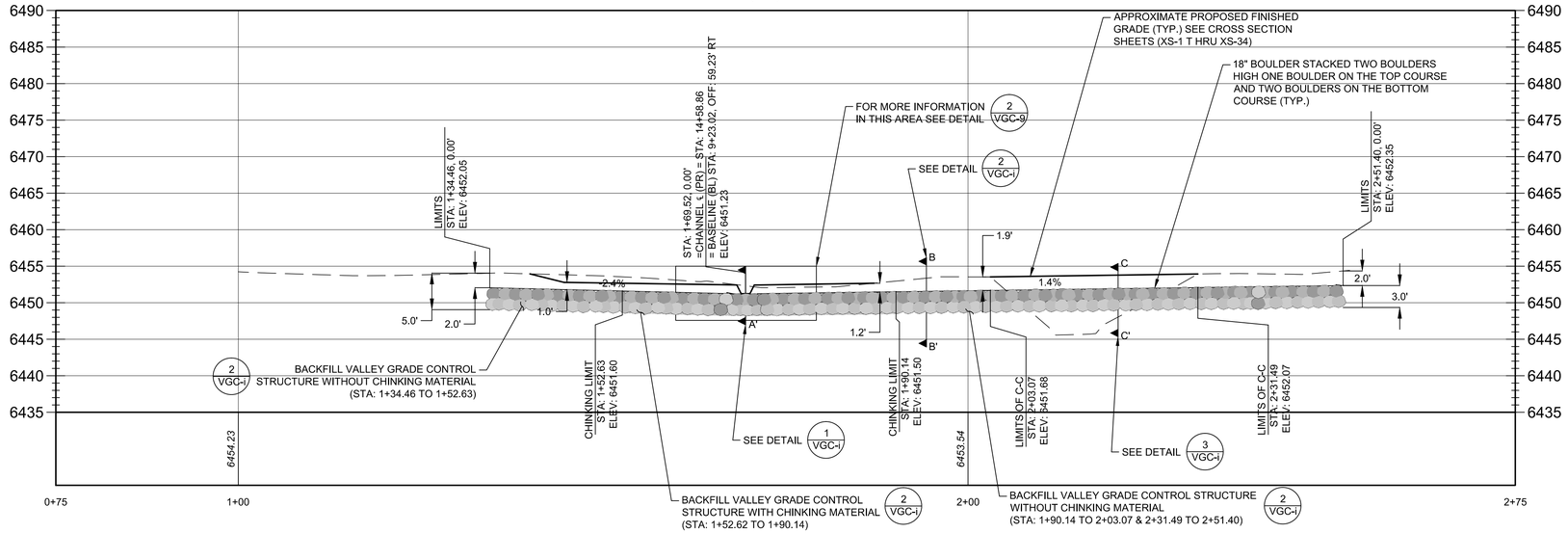
VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-8

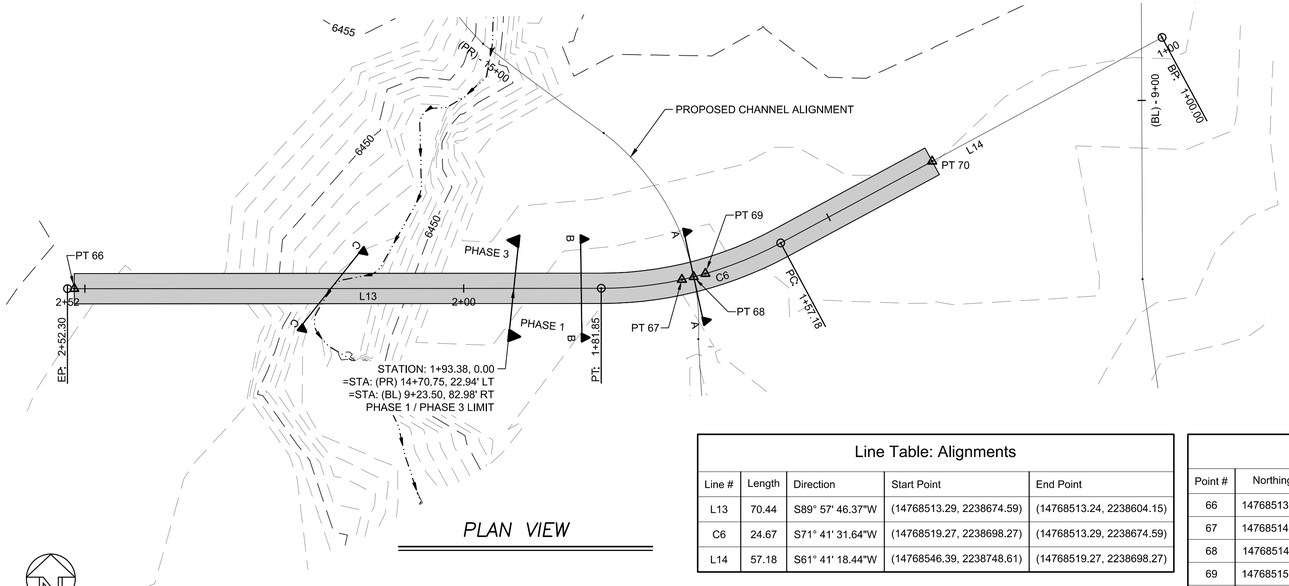
VALLEY-WIDE GC (PR) STA: 14+58.86 PROFILE



VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

1 VGC–9

NTS



PLAN VIEW

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L13	70.44	S89° 57' 46.37"W	(14768513.29, 2238674.59)	(14768513.24, 2238604.15)
C6	24.67	S71° 41' 31.64"W	(14768519.27, 2238698.27)	(14768513.29, 2238674.59)
L14	57.18	S61° 41' 18.44"W	(14768546.39, 2238748.61)	(14768519.27, 2238698.27)

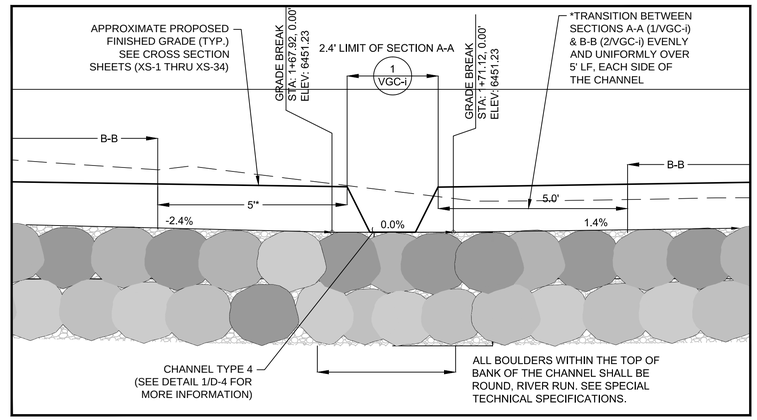
Point Table

Point #	Northing	Easting	Elevation	Description
66	14768513.24	2238605.05	6452.35	PT 66
67	14768514.44	2238685.24	6451.23	PT 67
68	14768514.81	2238686.80	6451.23	PT 68
69	14768515.23	2238688.35	6451.23	PT 69
70	14768530.05	2238718.28	6452.05	PT 70

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA 2 VGC–9

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

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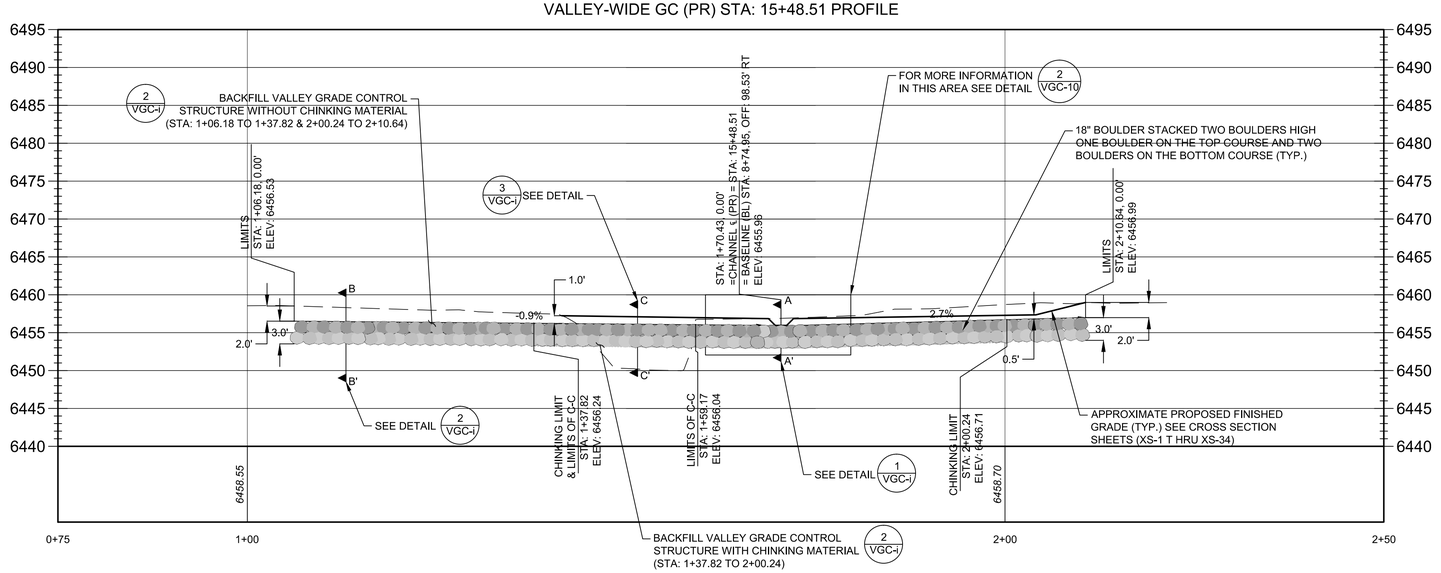
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-9

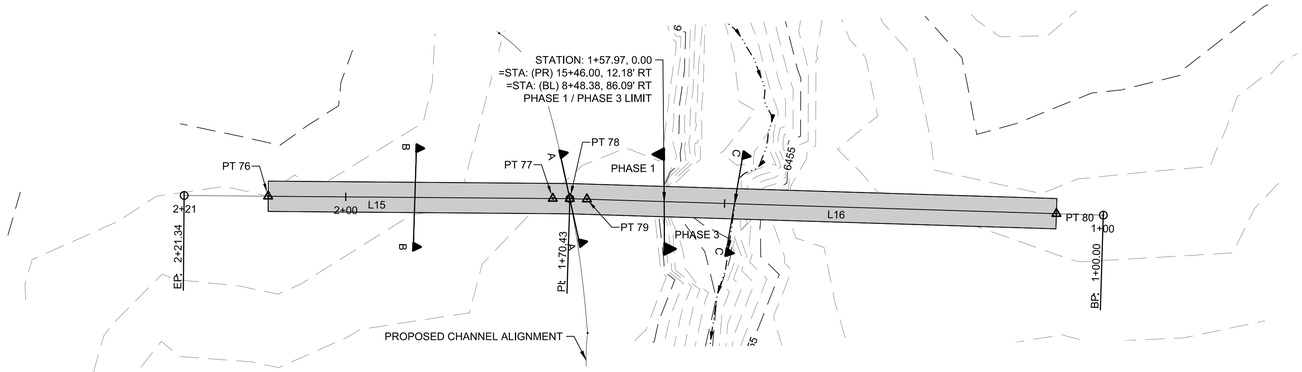
VALLEY-WIDE GC (PR) STA: 15+48.51 PROFILE



VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 3 — 1 VGC–10

NTS

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



PLAN VIEW

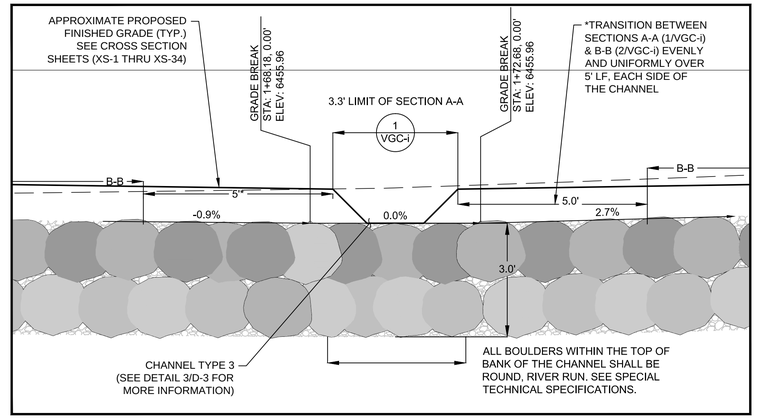
GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L15	50.91	N89° 32' 00.16"W	(14768589.72, 2238647.16)	(14768590.13, 2238596.25)
L16	70.43	N88° 13' 48.07"W	(14768587.54, 2238717.56)	(14768589.72, 2238647.16)

Point Table				
Point #	Northing	Easting	Elevation	Description
76	14768590.04	2238607.35	6456.99	PT 76
77	14768589.73	2238644.91	6455.96	PT 77
78	14768589.72	2238647.16	6455.96	PT 78
79	14768589.65	2238649.41	6455.96	PT 79
80	14768587.73	2238711.38	4656.53	PT 80

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA — 2 VGC–10

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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STATE OF NEVADA

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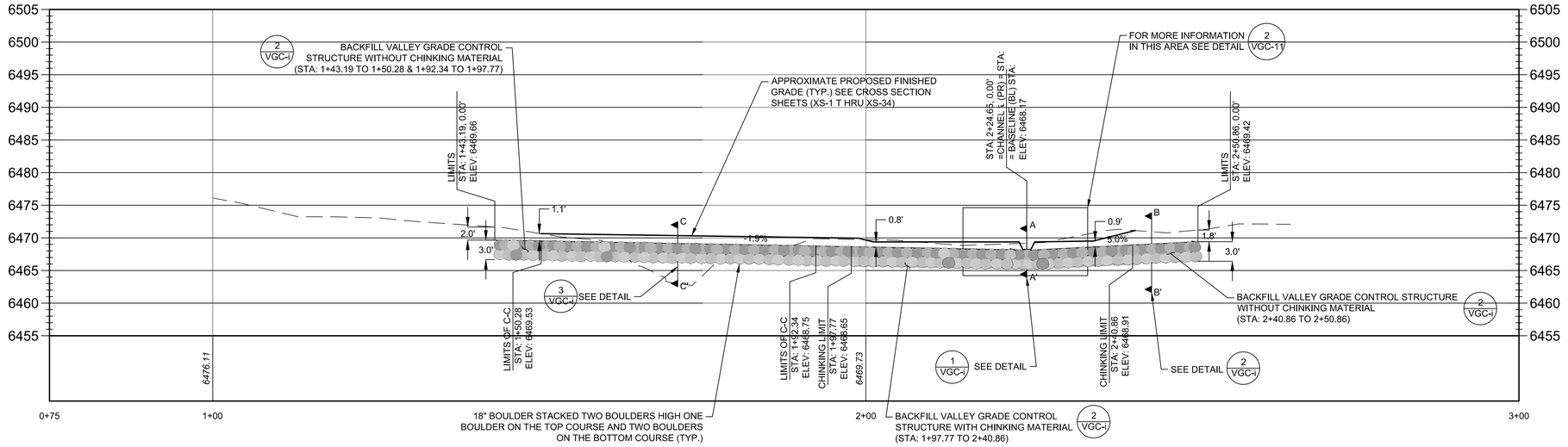
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-10
SHEET 88 OF 134

VALLEY-WIDE GC (PR) STA: 17+48.29 PROFILE

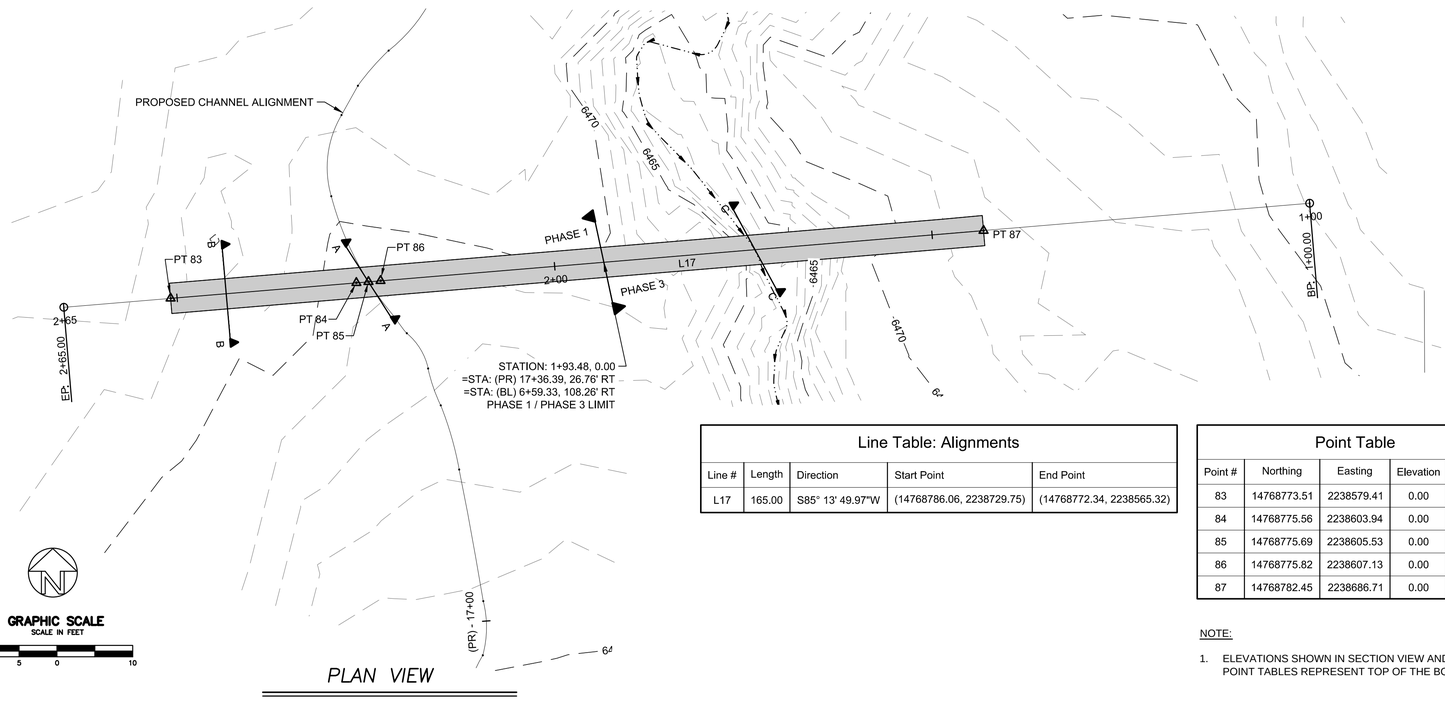


VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 4

NTS

1 VGC–11

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'



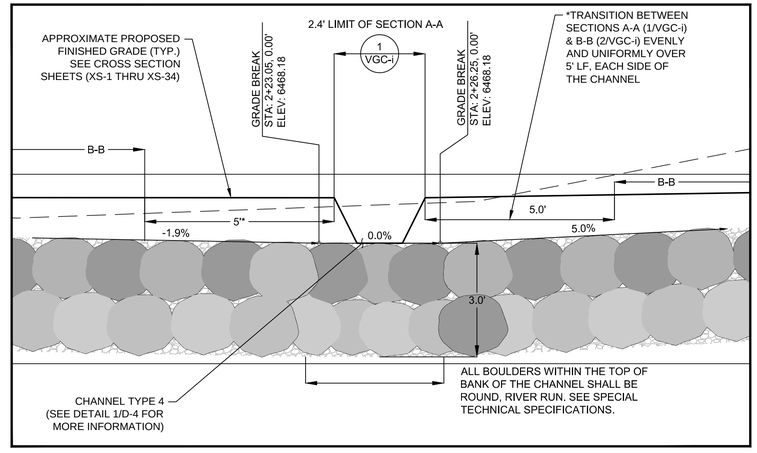
PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L17	165.00	S85° 13' 49.97"W	(14768786.06, 2238729.75)	(14768772.34, 2238565.32)

Point Table				
Point #	Northing	Easting	Elevation	Description
83	14768773.51	2238579.41	0.00	PT 83
84	14768775.56	2238603.94	0.00	PT 84
85	14768775.69	2238605.53	0.00	PT 85
86	14768775.82	2238607.13	0.00	PT 86
87	14768782.45	2238686.71	0.00	PT 87

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA 2 VGC–11

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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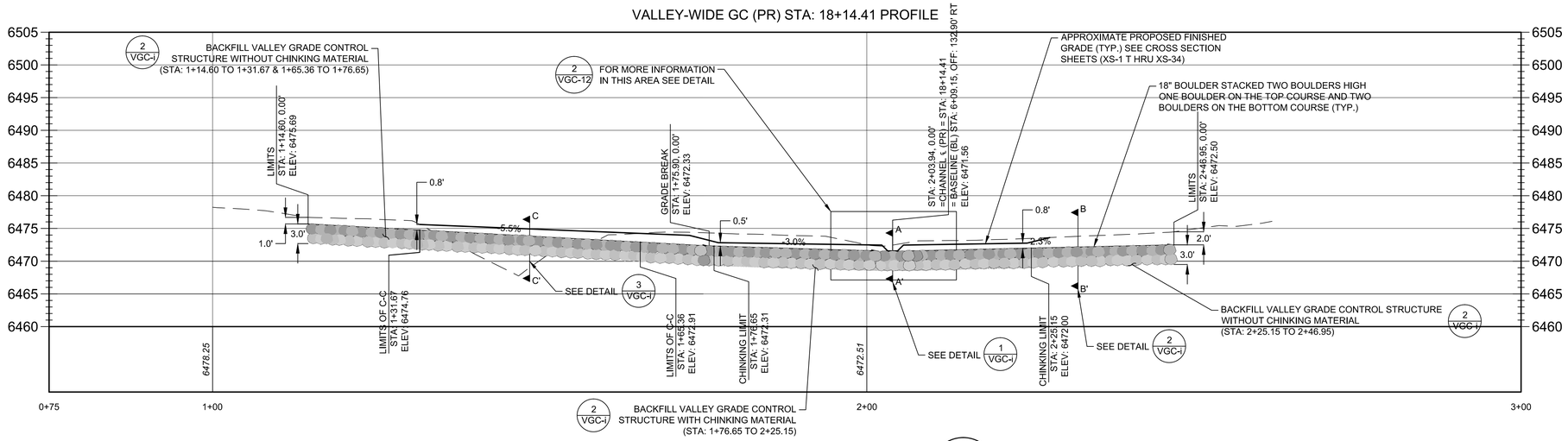
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-11

VALLEY-WIDE GC (PR) STA: 18+14.41 PROFILE

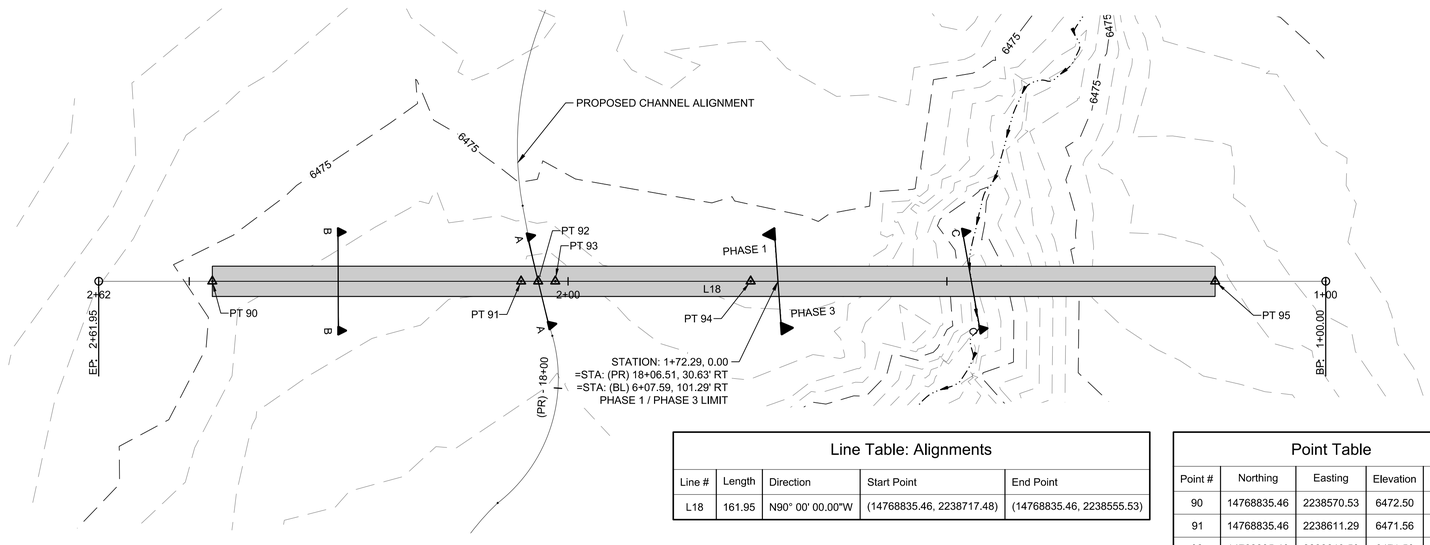


VALLEY–WIDE GRADE CONTROL CHANNEL TYPE 3

NTS

1 VGC–12

CROSS SECTION
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

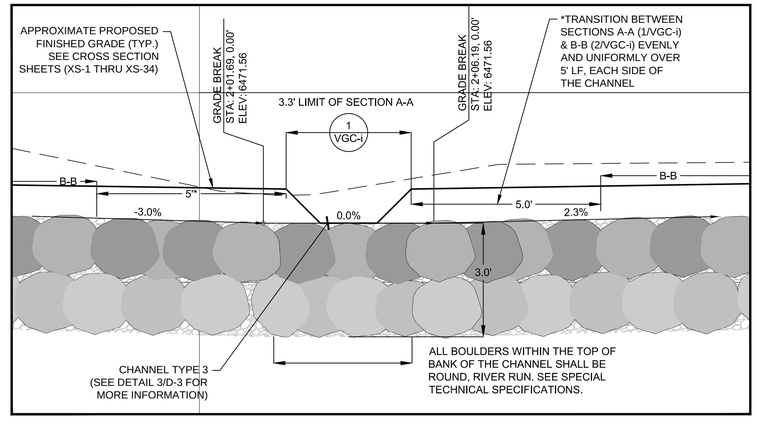


GRAPHIC SCALE
SCALE IN FEET
10 5 0 10

PLAN VIEW

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L18	161.95	N90° 00' 00.00"W	(14768835.46, 2238717.48)	(14768835.46, 2238555.53)

Point Table				
Point #	Northing	Easting	Elevation	Description
90	14768835.46	2238570.53	6472.50	PT 90
91	14768835.46	2238611.29	6471.56	PT 91
92	14768835.46	2238613.53	6471.56	PT 92
93	14768835.46	2238615.79	6471.56	PT 93
94	14768835.46	2238641.58	6472.33	PT 94
95	14768835.46	2238702.88	6475.69	PT 95



CROSS SECTION
HORIZONTAL SCALE 1" = 2'
VERTICAL SCALE 1" = 2'

BLOW–UP AREA

2 VGC–12

NOTE:

1. ELEVATIONS SHOWN IN SECTION VIEW AND INCLUDED IN THE POINT TABLES REPRESENT TOP OF THE BOULDER.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

VALLEY-WIDE GRADE CONTROL DETAILS

DATE
6/2012

Sheet VGC-12
SHEET 90 OF 134

REVEGETATION NOTES:

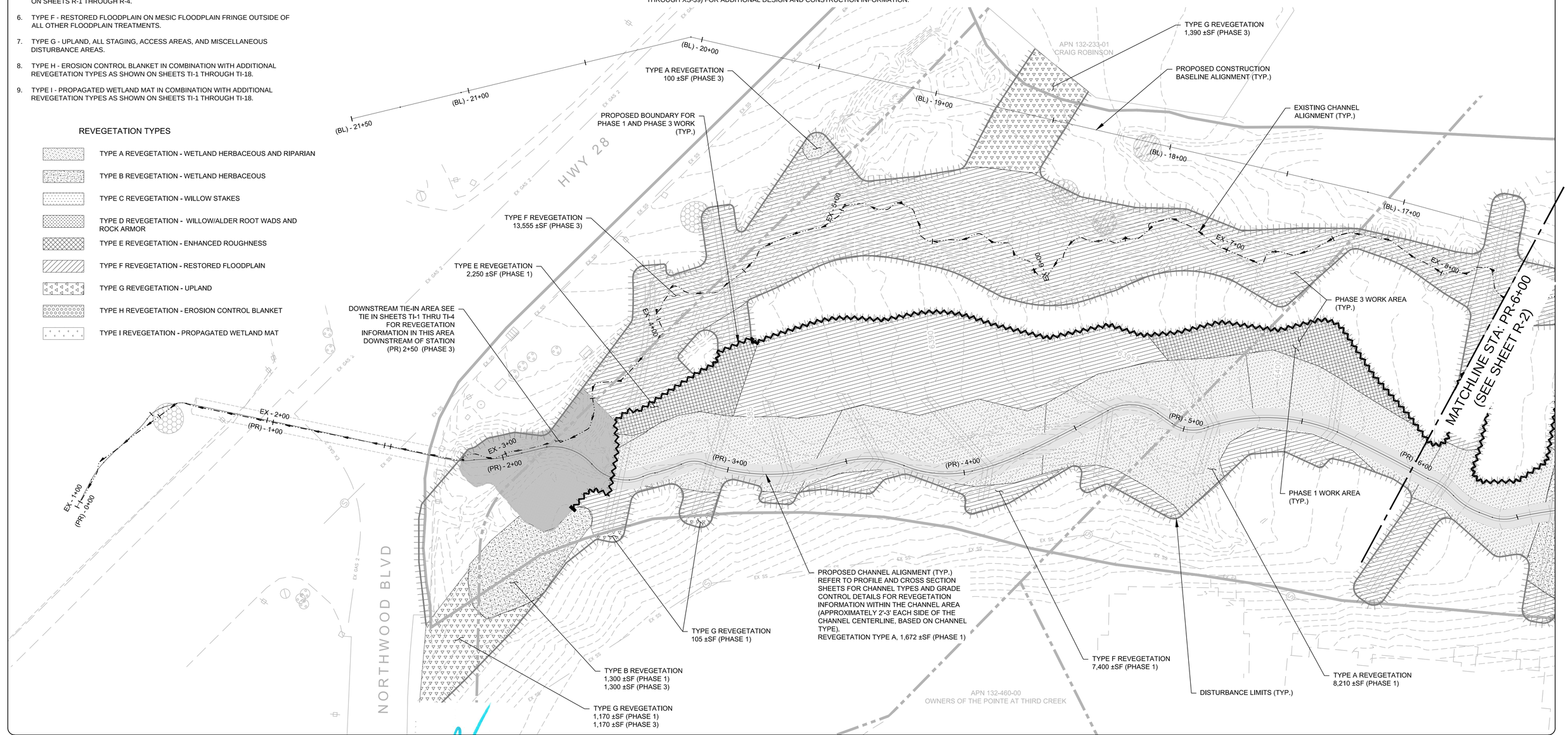
1. TYPE A - WETLAND HERBACEOUS AND RIPARIAN, INCLUDES: NEW CHANNEL BANKS, RESTORED, CREATED, ENHANCED WETLAND, OLD CHANNEL BACKFILL (IN SOME LOCATIONS), AND SOME RESTORED FLOODPLAIN.
2. TYPE B - WETLAND HERBACEOUS ONLY, RESTORED, CREATED, ENHANCED WETLAND.
3. TYPE C - WILLOW STAKES IN CHANNEL AT TOE AND LOWER MIDDLE OF BANKS FOR STABILITY AND BANK PROTECTION.
4. TYPE D - TOP OF BANK ARMORED WITH ALDER/ WILLOW ROOT WADS, ROCK ARMORING ON BANKS.
5. TYPE E - ENHANCED ROUGHNESS FOR STRUCTURAL ROUGHNESS TO ABSORB ENERGY AND REDUCE SHEER VELOCITIES IN SPECIFIC LOCATIONS AS SHOWN ON SHEETS R-1 THROUGH R-4.
6. TYPE F - RESTORED FLOODPLAIN ON MESIC FLOODPLAIN FRINGE OUTSIDE OF ALL OTHER FLOODPLAIN TREATMENTS.
7. TYPE G - UPLAND, ALL STAGING, ACCESS AREAS, AND MISCELLANEOUS DISTURBANCE AREAS.
8. TYPE H - EROSION CONTROL BLANKET IN COMBINATION WITH ADDITIONAL REVEGETATION TYPES AS SHOWN ON SHEETS TI-1 THROUGH TI-18.
9. TYPE I - PROPAGATED WETLAND MAT IN COMBINATION WITH ADDITIONAL REVEGETATION TYPES AS SHOWN ON SHEETS TI-1 THROUGH TI-18.

REVEGETATION TYPES

- TYPE A REVEGETATION - WETLAND HERBACEOUS AND RIPARIAN
- TYPE B REVEGETATION - WETLAND HERBACEOUS
- TYPE C REVEGETATION - WILLOW STAKES
- TYPE D REVEGETATION - WILLOW/ALDER ROOT WADS AND ROCK ARMOR
- TYPE E REVEGETATION - ENHANCED ROUGHNESS
- TYPE F REVEGETATION - RESTORED FLOODPLAIN
- TYPE G REVEGETATION - UPLAND
- TYPE H REVEGETATION - EROSION CONTROL BLANKET
- TYPE I REVEGETATION - PROPAGATED WETLAND MAT

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER AND/OR THE REVEGETATION SPECIALIST. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATION FOR THE PROJECT.
2. SEE SPECIAL TECHNICAL PROVISIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
3. REVEGETATION QUANTITIES FOR PHASE 2, YEAR 1 AND PHASE 2, YEAR 2 SHALL BE DIRECTED BY ENGINEER AND ESTIMATED QUANTITIES CAN BE FOUND IN THE BID LIST. SEE SPECIAL TECHNICAL SPECIFICATIONS.
4. SEE PLAN/PROFILE SHEETS (P-1 THROUGH PR-4) TIE-IN SHEETS (TI-1 THROUGH TI-18) AND CROSS SECTIONS (XSi THROUGH XS-39) FOR ADDITIONAL DESIGN AND CONSTRUCTION INFORMATION.



REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

REVEGETATION SHEET

STATION: PR-0+00 TO PR-6+00

DATE
6/2012

Sheet R-1
SHEET 91 OF 134

REVEGETATION TYPES

- TYPE A REVEGETATION - WETLAND HERBACEOUS AND RIPARIAN
- TYPE B REVEGETATION - WETLAND HERBACEOUS
- TYPE C REVEGETATION - WILLOW STAKES
- TYPE D REVEGETATION - WILLOW/ALDER ROOT WADS AND ROCK ARMOR
- TYPE E REVEGETATION - ENHANCED ROUGHNESS
- TYPE F REVEGETATION - RESTORED FLOODPLAIN
- TYPE G REVEGETATION - UPLAND
- TYPE H REVEGETATION - EROSION CONTROL BLANKET
- TYPE I REVEGETATION - PROPAGATED WETLAND MAT

REVEGETATION NOTES:

1. TYPE A - WETLAND HERBACEOUS AND RIPARIAN, INCLUDES: NEW CHANNEL BANKS, RESTORED, CREATED, ENHANCED WETLAND, OLD CHANNEL BACKFILL (IN SOME LOCATIONS), AND SOME RESTORED FLOODPLAIN.
2. TYPE B - WETLAND HERBACEOUS ONLY, RESTORED, CREATED, ENHANCED WETLAND.
3. TYPE C - WILLOW STAKES IN CHANNEL AT TOE AND LOWER MIDDLE OF BANKS FOR STABILITY AND BANK PROTECTION.
4. TYPE D - TOP OF BANK ARMORED WITH ALDER/ WILLOW ROOT WADS, ROCK ARMORING ON BANKS.
5. TYPE E - ENHANCED ROUGHNESS FOR STRUCTURAL ROUGHNESS TO ABSORB ENERGY AND REDUCE SHEER VELOCITIES IN SPECIFIC LOCATIONS AS SHOWN ON SHEETS R-1 THROUGH R-4.
6. TYPE F - RESTORED FLOODPLAIN ON MESIC FLOODPLAIN FRINGE OUTSIDE OF ALL OTHER FLOODPLAIN TREATMENTS.
7. TYPE G - UPLAND, ALL STAGING, ACCESS AREAS, AND MISCELLANEOUS DISTURBANCE AREAS.
8. TYPE H - EROSION CONTROL BLANKET IN COMBINATION WITH ADDITIONAL REVEGETATION TYPES AS SHOWN ON SHEETS TI-1 THROUGH TI-18.
9. TYPE I - PROPAGATED WETLAND MAT IN COMBINATION WITH ADDITIONAL REVEGETATION TYPES AS SHOWN ON SHEETS TI-1 THROUGH TI-18.

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER AND/OR THE REVEGETATION SPECIALIST. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATION FOR THE PROJECT.
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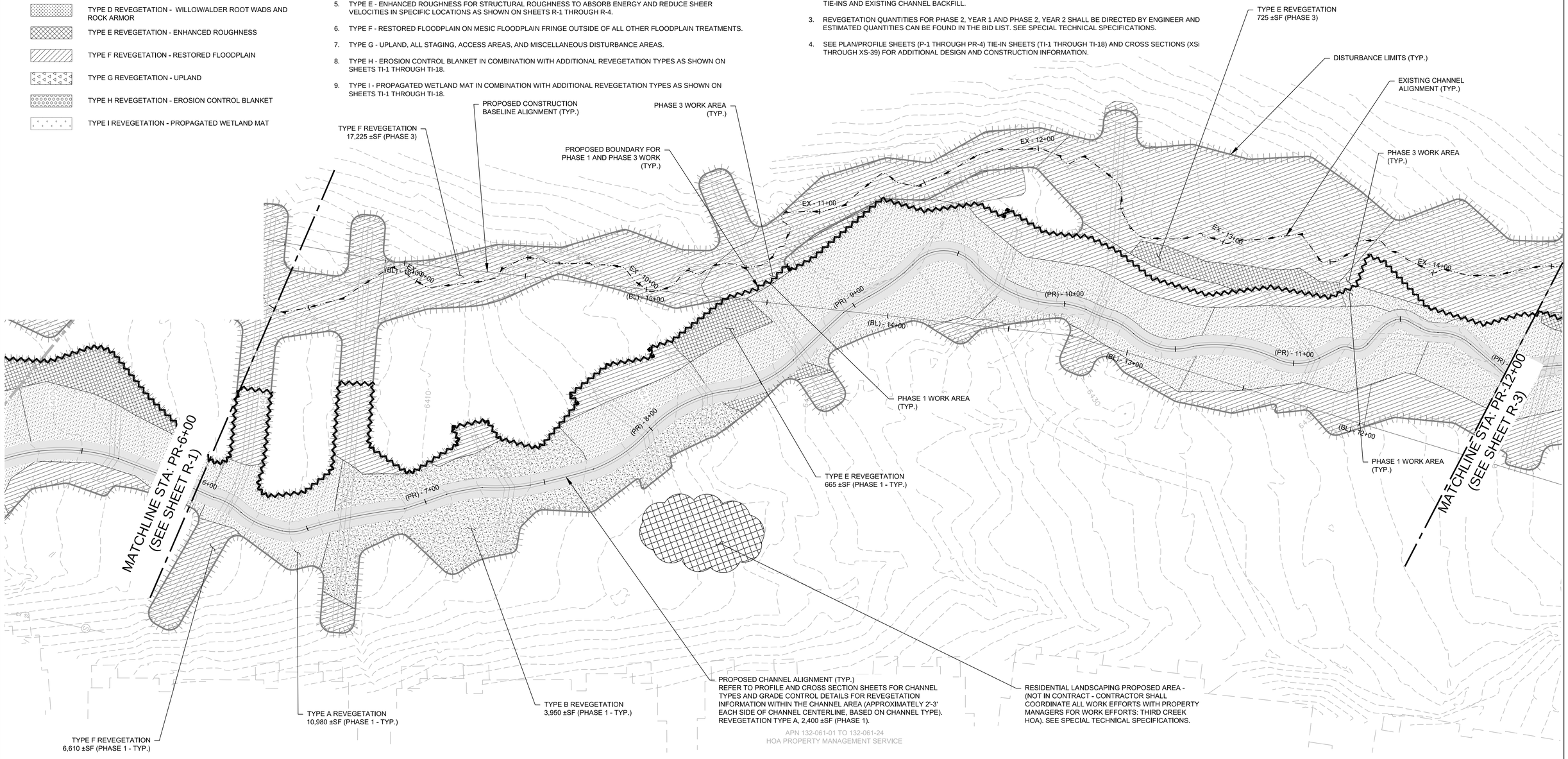
3. REVEGETATION QUANTITIES FOR PHASE 2, YEAR 1 AND PHASE 2, YEAR 2 SHALL BE DIRECTED BY ENGINEER AND ESTIMATED QUANTITIES CAN BE FOUND IN THE BID LIST. SEE SPECIAL TECHNICAL SPECIFICATIONS.
4. SEE PLAN/PROFILE SHEETS (P-1 THROUGH PR-4) TIE-IN SHEETS (TI-1 THROUGH TI-18) AND CROSS SECTIONS (XSi THROUGH XS-39) FOR ADDITIONAL DESIGN AND CONSTRUCTION INFORMATION.



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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
REVEGETATION SHEET
STATION: PR-6+00 TO PR-12+00

DATE
6/2012

Sheet R-2
SHEET 92 OF 134

NOTES:

1. PRIOR TO ANY CLEARING AND GRUBBING IN THE DISTURBED AREA THE CONTRACTOR SHALL SALVAGE ALL WILLOWS AND ALDERS FOR RELOCATION AS DIRECTED BY ENGINEER AND/OR THE REVEGETATION SPECIALIST. THE CONTRACTOR SHALL FURTHER SALVAGE ALL DEAD AND DOWNED WOODY DEBRIS FOR USE IN WOOD CHIP MATERIALS FOR RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS. THE CONTRACTOR SHALL FINALLY SALVAGE ALL TOPSOIL IN THE DISTURBED AREA FOR USE IN THE RESTORATION AND REVEGETATION OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIAL TECHNICAL SPECIFICATION FOR THE PROJECT.
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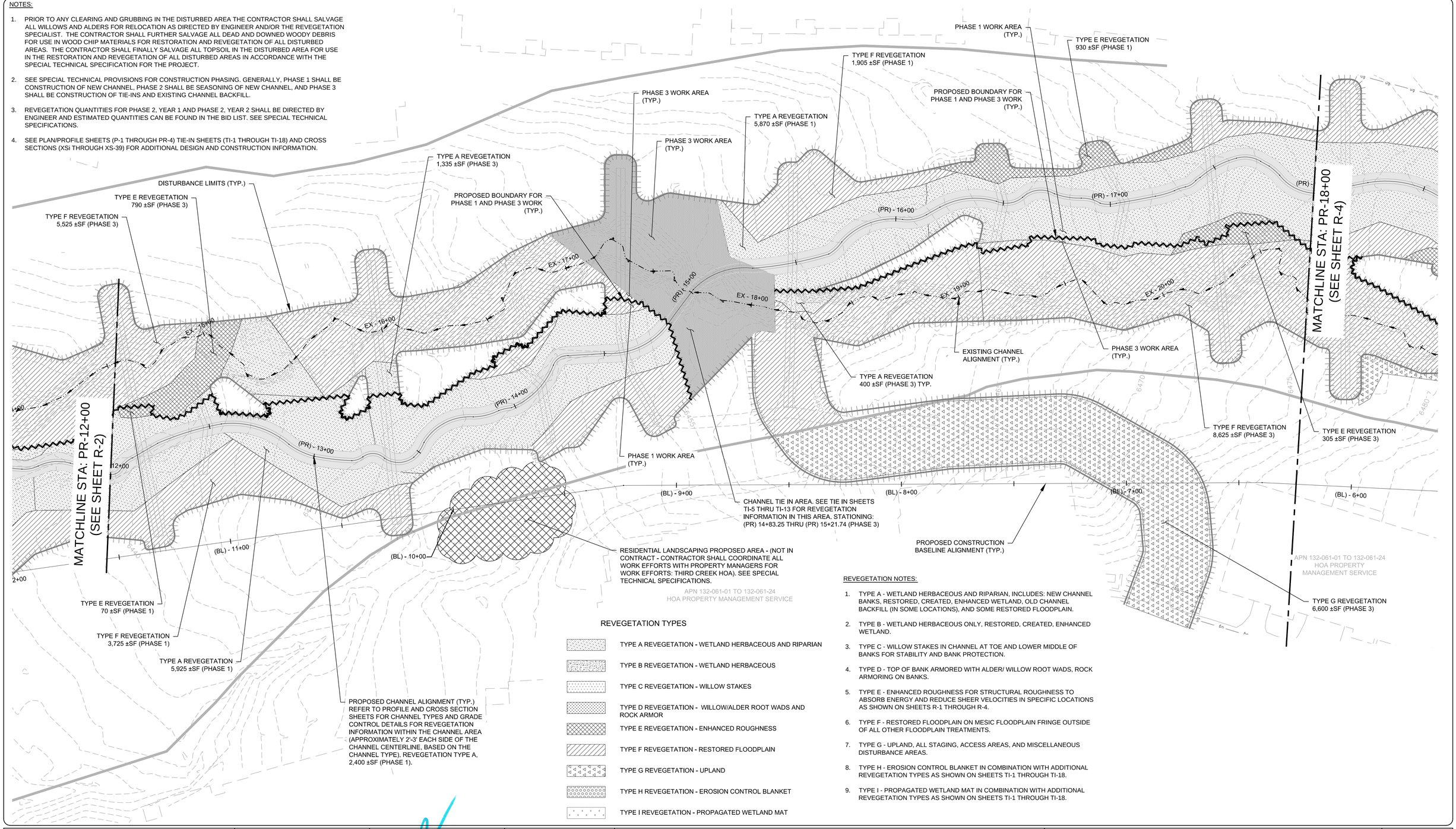

REVEGETATION TYPES

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VALLEY & MOUNTAIN CONSULTING

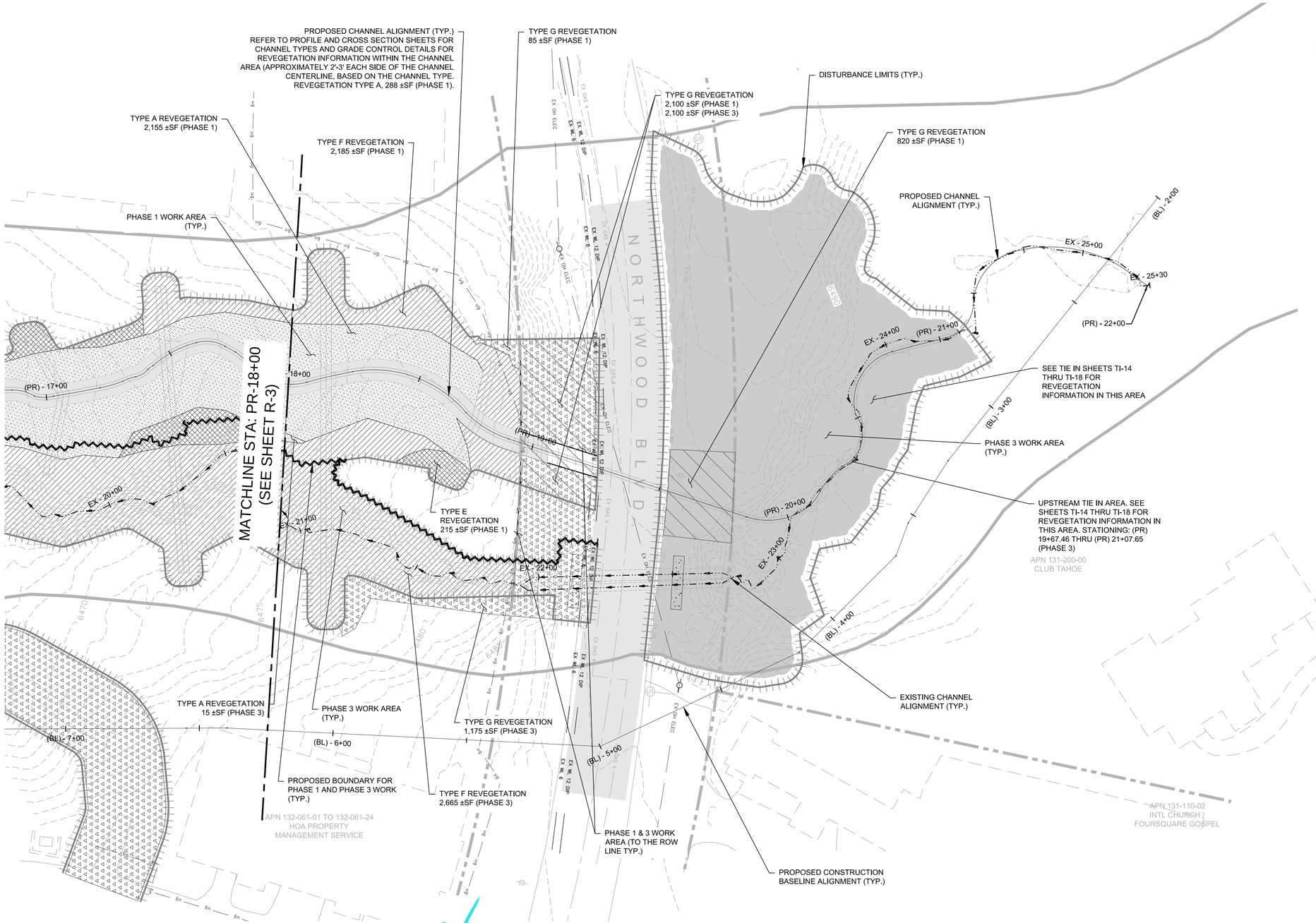
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

REVEGETATION SHEET

STATION: PR-12+00 TO PR-18+00

DATE
6/2012

Sheet R-3
SHEET 93 OF 134



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REVISIONS

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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

REVEGETATION SHEET

STATION: PR-18+00 TO PR-22+19

DATE
6/2012

Sheet R-4
SHEET 94 OF 134

NOTES:
1. ALL WORK ASSOCIATED WITH THE DOWNSTREAM TIE-IN (SHEETS TI-1 THRU TI-4) SHALL BE PERFORMED WITH DIVERSION 1 AND WPC-1 (ON THIS SHEET) OPERATIONAL AS ACCEPTED BY THE ENGINEER.
2. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILED REQUIREMENTS FOR DIVERSIONS.
3. ALL DIVERSION LOCATIONS, MATERIALS, AND EQUIPMENT ARE REPRESENTATIVE ONLY. CONTRACTOR TO SUBMIT A DETAILED DIVERSION PLAN TO ENGINEER FOR ACCEPTANCE. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILS AND INFORMATION.
4. WPC = WATER POLLUTION CONTROL.

SEE SHEET P-1 FOR EXISTING AND PROPOSED CHANNEL AND FLOODPLAIN WORK

(PR) - 3+00

6,585'

NORTHWOOD BLV

RIGHT-OF-WAY (TYP.)

PROPOSED CHANNEL ALIGNMENT (TYP.)

(PR) - 2+00

EX-3+00

DIVERSION 1

WPC-1

EX-4+00

PROPOSED FISH SCREEN LOCATION. SEE SWPPP AND SPECIAL TECHNICAL SPECIFICATIONS FOR INFORMATION. LOCATION TO BE ACCEPTED BY THE ENGINEER.

SEE SHEETS TI-1 THROUGH TI-4 FOR IMPROVEMENTS WITHIN THE CHANNEL TIE-IN AREA.

INSTALL DIRT BAG. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR SIZING / FLOW RATES AND DETAILED INFORMATION. THE CONTRACTOR WILL IDENTIFY THE LOCATION OF THE OUTLET WITHIN 100' OF THE CREEK PUMP. (2 ON THIS SHEET) LOCATION TO BE ACCEPTED BY THE ENGINEER.

2 / D-1

EX-2+00

EXISTING CHANNEL ALIGNMENT (TYP.)

(PR) - 1+00

EX-1+00

(PR) - 0+00

PROPOSED GRADING LIMIT (TYP.)

2 / D-1 INSTALL TEMPORARY DIVERSION DAMS. LOCATION TO BE ACCEPTED BY THE ENGINEER.

APPROXIMATE DISCHARGE LINE LOCATION (TYP.) LOCATION TO BE ACCEPTED BY THE ENGINEER. 2 / D-1

APPROXIMATE PUMP LOCATION. LOCATION TO BE ACCEPTED BY THE ENGINEER. 2 / D-1

2 / D-1 INSTALL TEMPORARY DIVERSION DAMS. LOCATION TO BE ACCEPTED BY THE ENGINEER.

2 / D-1 APPROXIMATE PUMP LOCATION. LOCATION TO BE ACCEPTED BY THE ENGINEER.

2 / D-1 APPROXIMATE DISCHARGE LINE LOCATION (TYP.) LOCATION TO BE ACCEPTED BY THE ENGINEER.

HWY 28

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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VALLEY MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DEWATERING AND DIVERSION PLAN

DOWNSTREAM DIVERSION 1 AND WPC-1

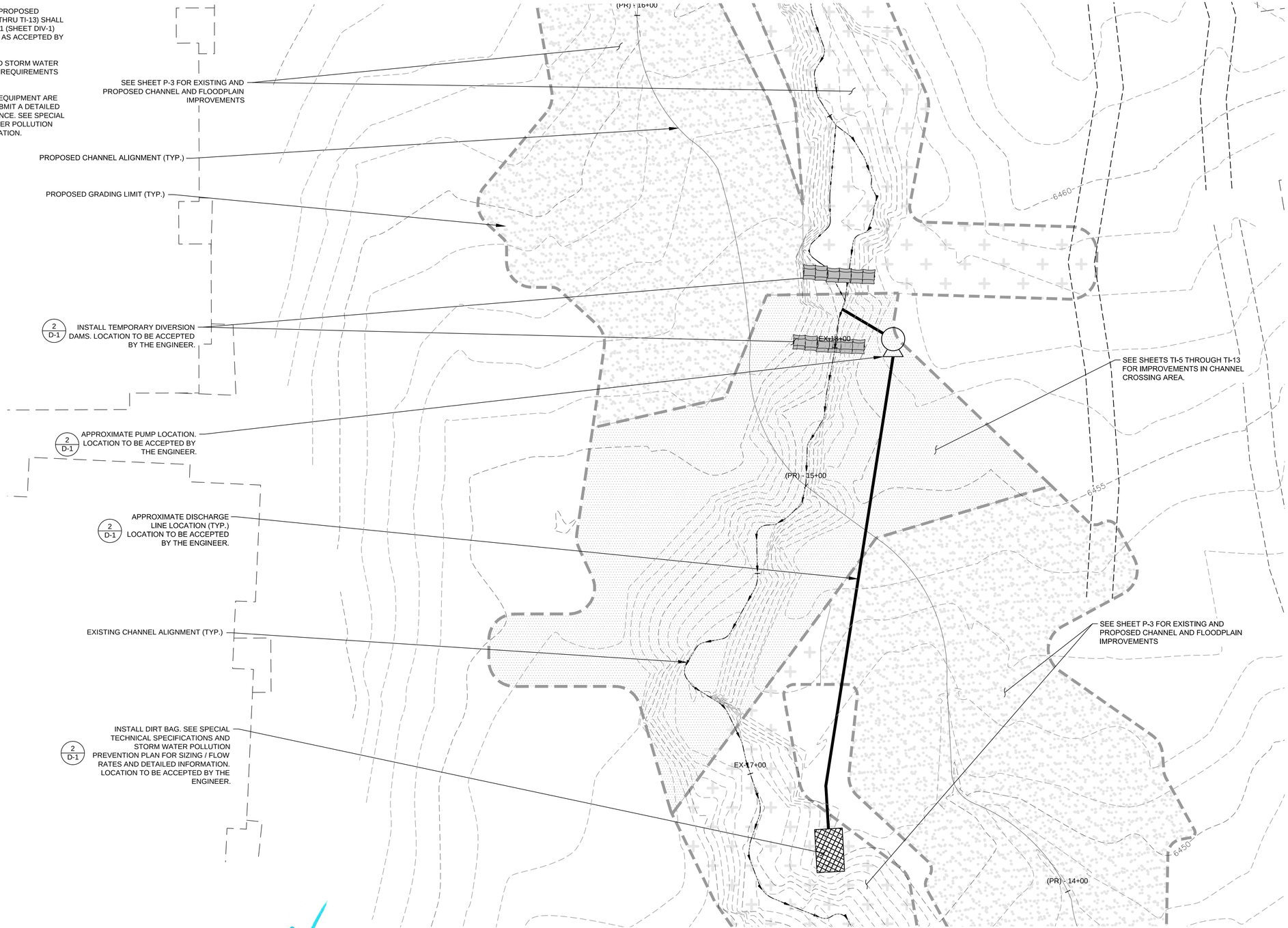
DATE 6/2012

Sheet DIV-1

SHEET 95 OF 134

NOTES:

1. ALL WORK ASSOCIATED WITH THE EXISTING / PROPOSED CHANNEL CROSSING TIE-IN (SEE SHEETS TI-5 THRU TI-13) SHALL BE PERFORMED WITH DIVERSION 1 AND WPC-1 (SHEET DIV-1) AND DIVERSION 2 (THIS SHEET) OPERATIONAL AS ACCEPTED BY THE ENGINEER.
2. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILED REQUIREMENTS FOR DIVERSIONS.
3. ALL DIVERSION LOCATIONS, MATERIALS, AND EQUIPMENT ARE REPRESENTATIVE ONLY. CONTRACTOR TO SUBMIT A DETAILED DIVERSION PLAN TO ENGINEER FOR ACCEPTANCE. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILS AND INFORMATION.



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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DEWATERING AND DIVERSION PLAN

EXISTING / PROPOSED CHANNEL CROSSING DIVERSION 2

DATE
6/2012

Sheet DIV-2
SHEET 96 OF 134

NOTES:

1. ALL WORK ASSOCIATED WITH THE UPSTREAM TIE-IN (SEE SHEETS TI-14 THRU TI-19) SHALL BE PERFORMED WITH DIVERSION 1 AND WPC-1 (SHEET DIV-1), DIVERSION 2 (SHEET DIV-2), AND DIVERSION 3 (THIS SHEET) OPERATIONAL AS ACCEPTED BY THE ENGINEER.
2. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILED REQUIREMENTS FOR DIVERSIONS.
3. ALL DIVERSION LOCATIONS, MATERIALS, AND EQUIPMENT ARE REPRESENTATIVE ONLY. CONTRACTOR TO SUBMIT A DETAILED DIVERSION PLAN TO ENGINEER FOR ACCEPTANCE. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR DETAILS AND INFORMATION.

PROPOSED FISH SCREEN LOCATION. SEE SPECIAL TECHNICAL PROVISIONS AND SWPPP. LOCATION TO BE ACCEPTED BY THE ENGINEER.

INSTALL TEMPORARY DIVERSION DAM. LOCATION TO BE ACCEPTED BY THE ENGINEER. (2 / D-1)

APPROXIMATE PUMP LOCATION. LOCATION TO BE ACCEPTED BY THE ENGINEER. (2 / D-1)

(PR) - 21+00

APPROXIMATE DISCHARGE LINE LOCATION (TYP.). LOCATION TO BE ACCEPTED BY THE ENGINEER. (2 / D-1)

EX-24+00

PROPOSED GRADING LIMIT (TYP.)

PROPOSED CHANNEL ALIGNMENT (TYP.)

EXISTING CHANNEL ALIGNMENT (TYP.)

(PR) - 20+00

EX-23+00

SEE SHEETS P-5 THROUGH P-13 FOR ROADWAY AND UTILITY WORK EFFORTS

SEE SHEETS TI-14 THROUGH TI-18 FOR IMPROVEMENTS IN CHANNEL TIE-IN AREA

N O R T H W O O D B L V D .

SEE SHEET P-4 THROUGH FOR EXISTING AND PROPOSED CHANNEL AND FLOODPLAIN IMPROVEMENTS.

(PR) - 19+00

EX-22+00

INSTALL DIRT BAG. SEE SPECIAL TECHNICAL SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN FOR SIZING / FLOW RATES AND DETAILED INFORMATION. LOCATION TO BE ACCEPTED BY THE ENGINEER. (2 / D-1)

6490

6485

EX SS

EX GAS 4

EX WL 12 DIP

EX WL 6

EX OH ELEC

OH ELEC

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DEWATERING AND DIVERSION PLAN

UPSTREAM DIVERSION 3

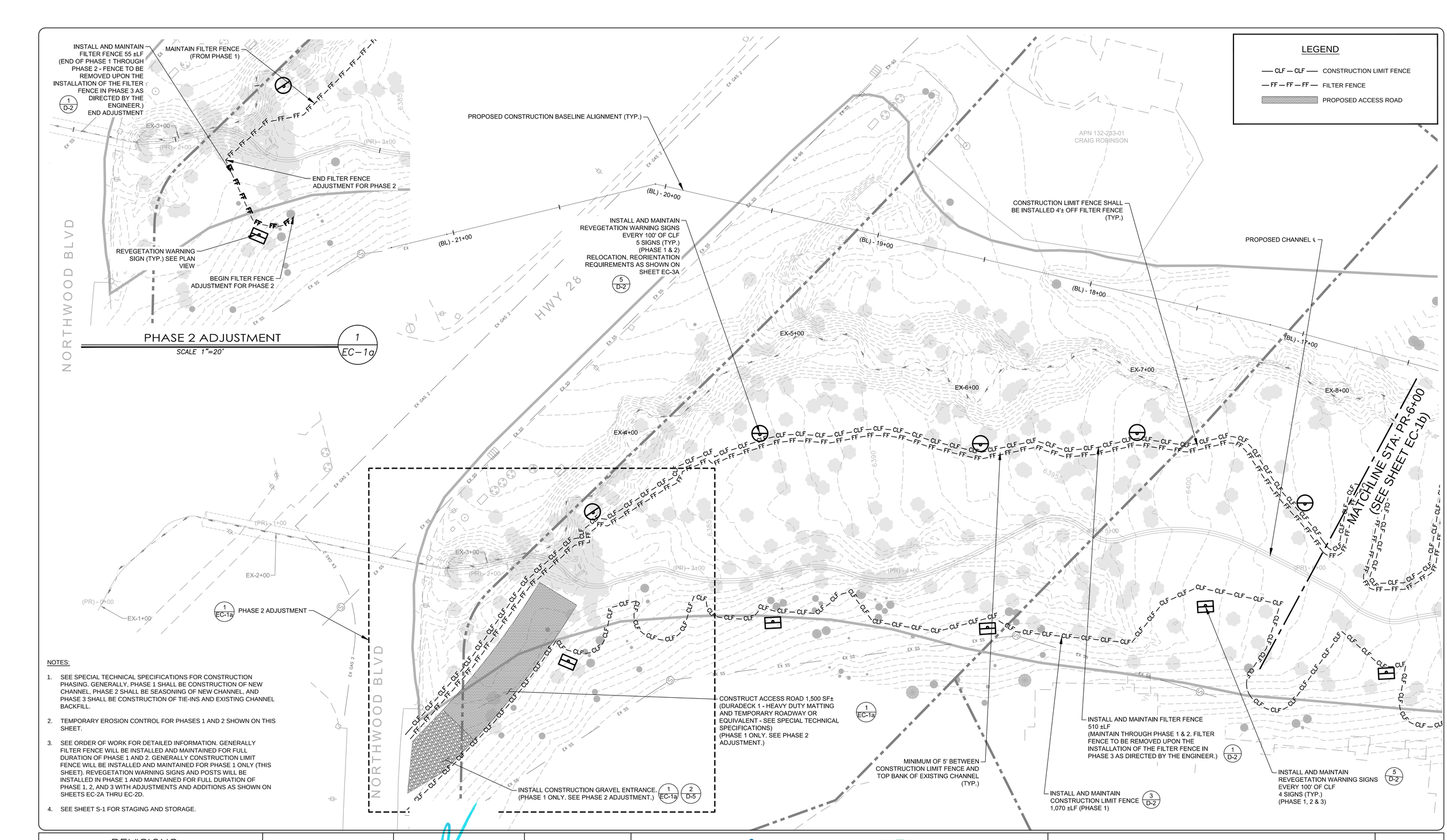
DATE
6/2012

Sheet DIV-3
SHEET 97 OF 134

PHASE 2 ADJUSTMENT

SCALE 1"=20'

1 EC-1a



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2. TEMPORARY EROSION CONTROL FOR PHASES 1 AND 2 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY FILTER FENCE WILL BE INSTALLED AND MAINTAINED FOR FULL DURATION OF PHASE 1 AND 2. GENERALLY CONSTRUCTION LIMIT FENCE WILL BE INSTALLED AND MAINTAINED FOR PHASE 1 ONLY (THIS SHEET). REVEGETATION WARNING SIGNS AND POSTS WILL BE INSTALLED IN PHASE 1 AND MAINTAINED FOR FULL DURATION OF PHASE 1, 2, AND 3 WITH ADJUSTMENTS AND ADDITIONS AS SHOWN ON SHEETS EC-2A THRU EC-2D.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.

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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 1 & 2 STATION 0+00 TO 6+00

DATE 6/2012

SHEET EC-1a

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASES 1 AND 2 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY FILTER FENCE WILL BE INSTALLED AND MAINTAINED FOR FULL DURATION OF PHASE 1 AND 2. GENERALLY CONSTRUCTION LIMIT FENCE WILL BE INSTALLED AND MAINTAINED FOR PHASE 1 ONLY (THIS SHEET). REVEGETATION WARNING SIGNS AND POSTS WILL BE INSTALLED IN PHASE 1 AND MAINTAINED FOR FULL DURATION OF PHASE 1, 2, AND 3 WITH ADJUSTMENTS AND ADDITIONS AS SHOWN ON SHEETS EC-2A THRU EC-2D.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.

INSTALL WATER FILLED BERM 100 ±LF (PHASE 1 & 2) — 3/D-1

REMOVE AND RESTORE EXISTING FOOT PATH 195 ±LF (SEE REVEGETATION SHEET R-2) (PHASE 1)

MINIMUM OF 5' BETWEEN CONSTRUCTION LIMIT FENCE AND TOP BANK OF EXISTING CHANNEL (TYP.)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF 5 SIGNS (TYP.) (PHASE 1 & 2) RELOCATION, REORIENTATION REQUIREMENTS AS SHOWN ON SHEET EC-3A — 5/D-2

CONSTRUCT TEMPORARY BURIED PROTECTION (PHASE 1) 40 ±LF (REMOVE AS NECESSARY FOR PROPER CONSTRUCTION OF THE PROJECT AFTER CHANNEL BACKFILL COMPLETION IN PHASE 3) — 1/D-1

CONSTRUCTION LIMIT FENCE SHALL BE INSTALLED 4'± OFF FILTER FENCE (TYP.)

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE 1,435 ±LF (PHASE 1) — 3/D-2

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

INSTALL AND MAINTAIN FILTER FENCE 680 ±LF (MAINTAIN THROUGH PHASE 1 & 2. FILTER FENCE TO BE REMOVED UPON THE INSTALLATION OF THE FILTER FENCE IN PHASE 3 AS DIRECTED BY THE ENGINEER.) — 1/D-2

EX-8+00 · EX-9+00 · EX-10+00 · EX-11+00 · EX-12+00 · EX-13+00 · EX-14+00

(BL) - 17+00 · (BL) - 16+00 · (BL) - 15+00 · (BL) - 14+00 · (BL) - 13+00 · (BL) - 12+00

(PR) - 7+00 · (PR) - 8+00 · (PR) - 9+00 · (PR) - 10+00 · (PR) - 11+00

6400 · 6410 · 6415 · 6425 · 6430

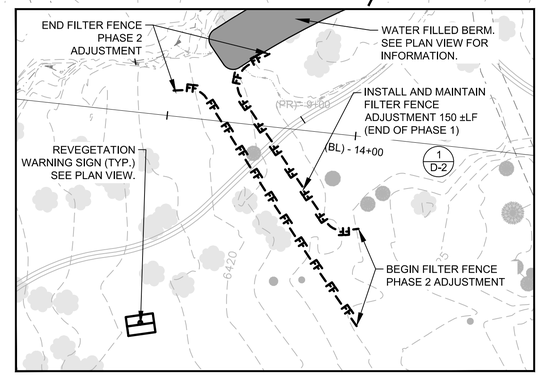
MATCHLINE STA: PR-6+00 (SEE SHEET EC-1a)

MATCHLINE STA: PR-12+00 (SEE SHEET EC-1c)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF 5 SIGNS (TYP.) (PHASE 1, 2 & 3) — 6/D-2

SEE DETAIL FOR PHASE 2 ADJUSTMENT — 1/EC-1b

APN 132-061-01 TO 132-061-24
HOA PROPERTY MANAGEMENT SERVICE



PHASE 2 ADJUSTMENT — NTS — 1/EC–1b

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY — STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 1&2 STATION 6+00 TO 12+00

DATE 6/2012

SHEET EC-1b

SHEET 99 OF 134

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE 725 ±LF (PHASE 1) — 3 D-2

INSTALL AND MAINTAIN FILTER FENCE 370 ±LF (PHASE 1 & 2) — 1 D-2

1 D-1 CONSTRUCT TEMPORARY BURIED PROTECTION (PHASE 1) 25 ±LF (REMOVE AS NECESSARY FOR PROPER CONSTRUCTION OF THE PROJECT AFTER CHANNEL BACKFILL COMPLETION PHASE 3)

1 D-1 CONSTRUCT TEMPORARY BURIED PROTECTION 20 ±LF (PHASE 1) (REMOVE AS NECESSARY FOR PROPER CONSTRUCTION OF THE PROJECT AFTER CHANNEL BACKFILL COMPLETION IN PHASE 3)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF 6 SIGNS (TYP.) (PHASE 1 & 2) RELOCATION, REORIENTATION REQUIREMENTS AS SHOWN ON SHEET EC-3A — 5 D-2

MATCHLINE STA: PR-12+00 (SEE SHEET EC-1b)

MATCHLINE STA: PR-18+00 (SEE SHEET EC-1d)

EX-15+00 EX-16+00 EX-17+00 EX-18+00 EX-19+00 EX-20+00 EX-21+00

(PR) - 13+00 (PR) - 14+00 (PR) - 15+00 (PR) - 16+00 (PR) - 17+00

(BL) - 9+00 (BL) - 8+00 (BL) - 7+00 (BL) - 6+00 (BL) - 10+00 (BL) - 11+00

6445 6450 6455 6460 6465 6470 6475 6480

MINIMUM OF 5' BETWEEN CONSTRUCTION LIMIT FENCE AND TOP BANK OF EXISTING CHANNEL (TYP.)

CONSTRUCT TEMPORARY BURIED PROTECTION (PHASE 1) 20 ±LF (REMOVE AS NECESSARY FOR PROPER CONSTRUCTION OF THE PROJECT AFTER CHANNEL BACKFILL COMPLETION IN PHASE 3) — 1 D-1

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE 685 ±LF (PHASE 1) — 3 D-2

INSTALL AND MAINTAIN FILTER FENCE 320 ±LF (MAINTAIN THROUGH PHASE 1 & 2. FILTER FENCE TO BE REMOVED UPON THE INSTALLATION OF THE FILTER FENCE IN PHASE 3 AS DIRECTED BY THE ENGINEER.) — 1 D-2

APN 132-061-01 TO 132-061-24
HOA PROPERTY MANAGEMENT SERVICE

CONSTRUCTION LIMIT FENCE SHALL BE INSTALLED 4' OFF FILTER FENCE (TYP.)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF 6 SIGNS (PHASE 1, 2 & 3) — 5 D-2

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASES 1 AND 2 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY FILTER FENCE WILL BE INSTALLED AND MAINTAINED FOR FULL DURATION OF PHASE 1 AND 2. GENERALLY CONSTRUCTION LIMIT FENCE WILL BE INSTALLED AND MAINTAINED FOR PHASE 1 ONLY (THIS SHEET). REVEGETATION WARNING SIGNS AND POSTS WILL BE INSTALLED IN PHASE 1 AND MAINTAINED FOR FULL DURATION OF PHASE 1, 2. AND 3 WITH ADJUSTMENTS AND ADDITIONS AS SHOWN ON SHEETS EC-2A THRU EC-2D.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.

LEGEND

—— CLF — CLF —— CONSTRUCTION LIMIT FENCE

— FF — FF — FF — FILTER FENCE

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 1&2 STATION 12+00 TO 18+00

DATE 6/2012

SHEET EC-1c

INSTALL AND MAINTAIN FILTER FENCE
130 ±LF
(MAINTAIN THROUGH PHASE 1 & 2. FILTER FENCE TO BE REMOVED UPON THE INSTALLATION OF THE FILTER FENCE IN PHASE 3 AS DIRECTED BY THE ENGINEER.)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF
1 SIGNS (TYP.)
(PHASE 1, 2 & 3)

INSTALL CONSTRUCTION GRAVEL ENTRANCE. (PHASE 1)

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE
275 ±LF
(PHASE 1)

NO WORK, OTHER THAN STORAGE AND STAGING AS SHOWN ON SHEET S-1, SHALL OCCUR NORTH OF THE NORTHERLY R.O.W. LINE OF NORTHWOOD BLVD.

MATCHLINE STA: PR-18+00
(SEE SHEET EC-1c)

NORTHWOOD BLVD

SEE SHEET S-1 FOR STAGING AND STORAGE AREA INFORMATION AND TEMPORARY EROSION CONTROL MEASURES.

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

SEE SHEET P-4 FOR TEMPORARY PROTECTION MEASURES AT THE CULVERT UPSTREAM ENTRANCE.

MINIMUM OF 5' BETWEEN CONSTRUCTION LIMIT FENCE AND TOP OF PROPOSED CHANNEL (TYP).

CONSTRUCTION LIMIT FENCE SHALL BE INSTALLED 4' OFF FILTER FENCE (TYP.)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF
2 SIGNS (TYP.) - (PHASE 1 & 2)
RELOCATION, REORIENTATION REQUIREMENTS AS SHOWN ON SHEET EC-3A

SEE SHEET S-1 FOR STAGING AND STORAGE AREA INFORMATION AND TEMPORARY EROSION CONTROL MEASURES.

APN 132-061-01 TO 132-061-24
HOA PROPERTY
MANAGEMENT SERVICE

APN 131-200-00
CLUB TAHOE

APN 131-110-02
INTL CHURCH /
FOURSQUARE GOSP

EX-20+00 EX-21+00 EX-22+00 EX-23+00 EX-24+00 EX-25+00 EX-25+30

(PR) - 17+00 (PR) - 18+00 (PR) - 20+00 (PR) - 21+00 (PR) - 22+00

(BL) - 7+00 (BL) - 6+00 (BL) - 5+00 (BL) - 4+00 (BL) - 3+00 (BL) - 2+00

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASES 1 AND 2 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY FILTER FENCE WILL BE INSTALLED AND MAINTAINED FOR FULL DURATION OF PHASE 1 AND 2. GENERALLY CONSTRUCTION LIMIT FENCE WILL BE INSTALLED AND MAINTAINED FOR PHASE 1 ONLY (THIS SHEET). REVEGETATION WARNING SIGNS AND POSTS WILL BE INSTALLED IN PHASE 1 AND MAINTAINED FOR FULL DURATION OF PHASE 1, 2, AND 3 WITH ADJUSTMENTS AND ADDITIONS AS SHOWN ON EC-2A THROUGH EC-2D.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. SEE SHEET EC-1D2 FOR ADDITIONAL TEMPORARY EROSION CONTROL MEASURES IN THIS AREA.

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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Valley & Mountain Consulting

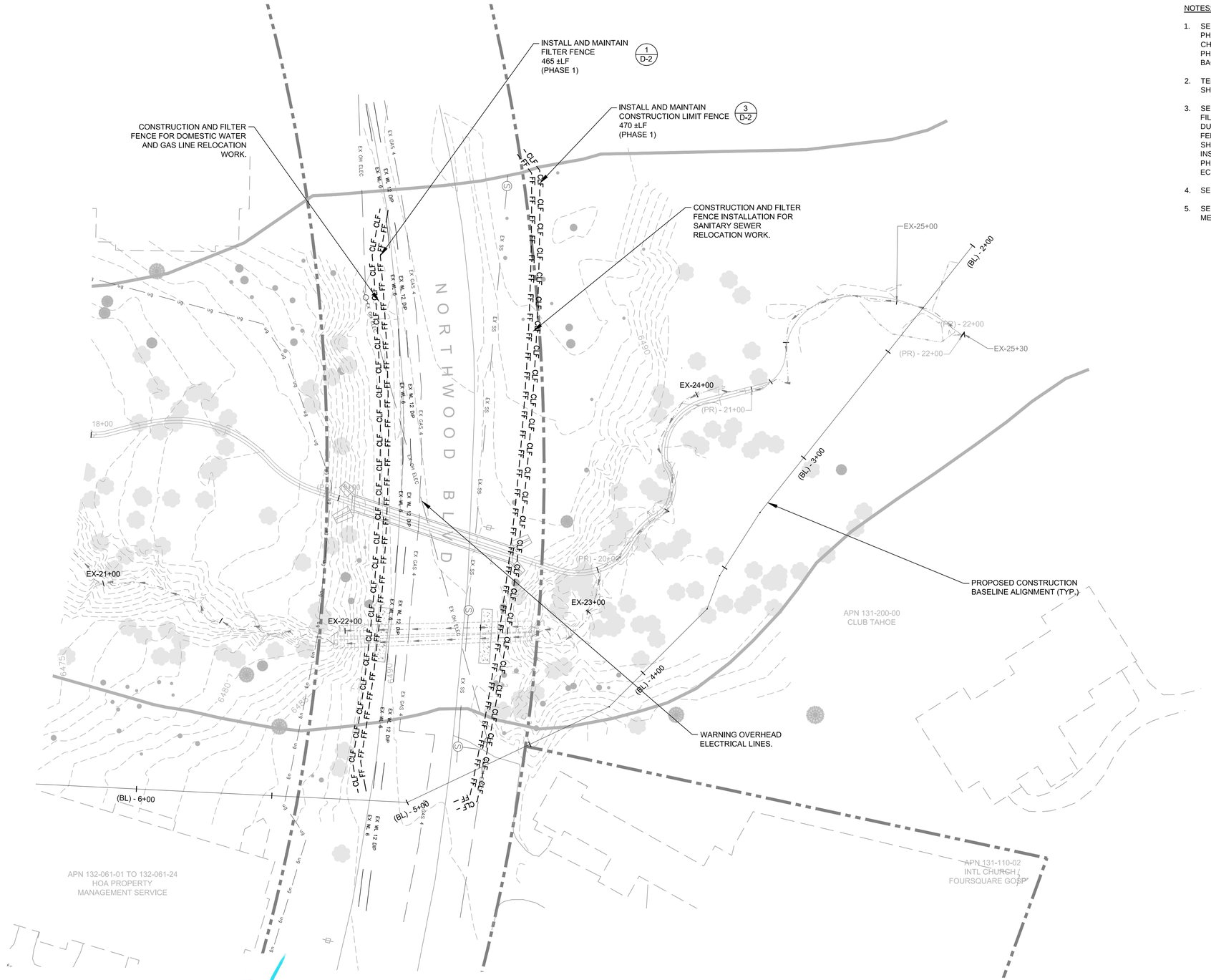
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL
PHASE 1&2 STATION 18+00 TO 22+19

DATE
6/2012

SHEET EC-1d1

SHEET 101 OF 134



NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASES 1 AND 2 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY FILTER FENCE WILL BE INSTALLED AND MAINTAINED FOR FULL DURATION OF PHASE 1 AND 2. GENERALLY CONSTRUCTION LIMIT FENCE WILL BE INSTALLED AND MAINTAINED FOR PHASE 1 ONLY (THIS SHEET). REVEGETATION WARNING SIGNS AND POSTS WILL BE INSTALLED IN PHASE 1 AND MAINTAINED FOR FULL DURATION OF PHASE 1, 2, AND 3 WITH ADJUSTMENTS AND ADDITIONS AS SHOWN ON EC-2A THROUGH EC-2D.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. SEE SHEET EC-1D1 FOR ADDITIONAL TEMPORARY EROSION CONTROL MEASURES IN THIS AREA.

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
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SEAL OF WASHOE COUNTY
STATE OF NEVADA

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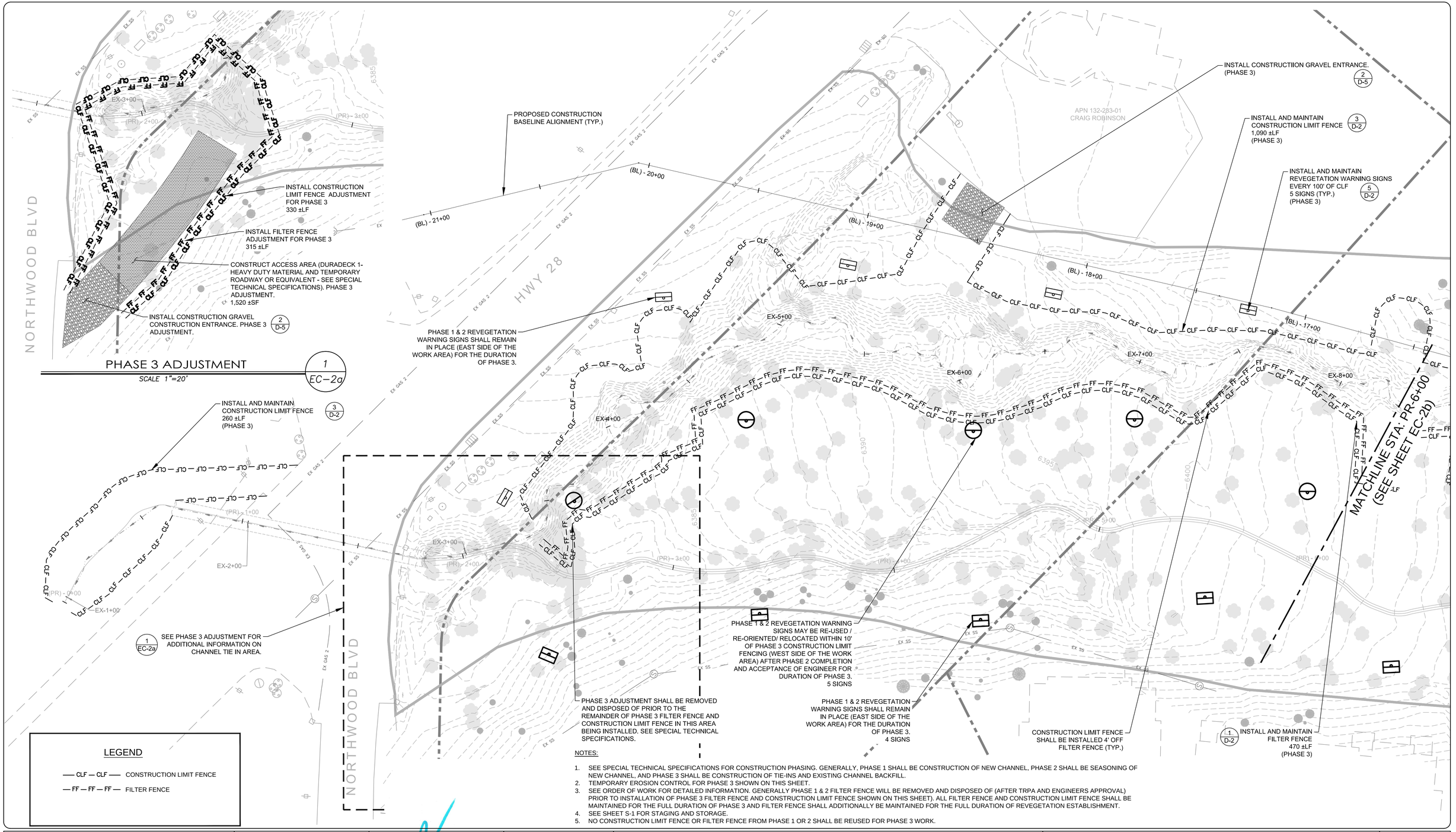
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
TEMPORARY EROSION CONTROL PHASE 1&2 UTILITY WORK

DATE
6/2012

SHEET EC-1d2

SHEET 102 OF 134



LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASE 3 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY PHASE 1 & 2 FILTER FENCE WILL BE REMOVED AND DISPOSED OF (AFTER TRPA AND ENGINEERS APPROVAL) PRIOR TO INSTALLATION OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHOWN ON THIS SHEET). ALL FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHALL BE MAINTAINED FOR THE FULL DURATION OF PHASE 3 AND FILTER FENCE SHALL ADDITIONALLY BE MAINTAINED FOR THE FULL DURATION OF REVEGETATION ESTABLISHMENT.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.

REVISIONS			
MARK	DATE	BY	

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PROFESSIONAL ENGINEER-STATE OF NEVADA
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SEAL OF WASHOE COUNTY
STATE OF NEVADA

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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 3 STATION 0+00 TO 6+00

DATE 6/2012

SHEET EC-3a

SHEET 103 OF 134

LEGEND

—— CLF — CLF —— CONSTRUCTION LIMIT FENCE

— FF — FF — FF — FILTER FENCE

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASE 3 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY PHASE 1 & 2 FILTER FENCE WILL BE REMOVED AND DISPOSED OF (AFTER TRPA AND ENGINEERS APPROVAL) PRIOR TO INSTALLATION OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHOWN ON THIS SHEET). ALL FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHALL BE MAINTAINED FOR THE FULL DURATION OF PHASE 3 AND FILTER FENCE SHALL ADDITIONALLY BE MAINTAINED FOR THE FULL DURATION OF REVEGETATION ESTABLISHMENT.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.

CONSTRUCTION LIMIT FENCE SHALL BE INSTALLED 4' OFF FILTER FENCE (TYP.)

WATER FILLED BERM WILL BE REMOVED AT A TIME DIRECTED BY THE ENGINEER. TIMING SHALL GENERALLY BE EARLY IN PHASE 3. PRIOR TO BACKFILLING THE EXISTING CHANNEL.

PHASE 1 & 2 REVEGETATION WARNING SIGNS MAY BE RE-USED / RE-ORIENTED/ RELOCATED WITHIN 10' OF PHASE 3 CONSTRUCTION LIMIT FENCING (WEST SIDE OF THE WORK AREA) AFTER PHASE 2 COMPLETION AND ACCEPTANCE OF ENGINEER FOR DURATION OF PHASE 3.
5 SIGNS (TYP.)

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF
6 SIGNS (TYP.)
(PHASE 3)
(5 / D-2)

(BL) - 17+00
EX-8+00
EX-9+00
(BL) - 16+00
EX-10+00
(BL) - 15+00
(PR) - 9+00
(BL) - 14+00
EX-11+00
EX-12+00
(PR) - 10+00
(BL) - 13+00
EX-13+00
(PR) - 11+00
(BL) - 12+00
EX-14+00
(PR) - 12+00
(BL) - 11+00
(PR) - 8+00
(PR) - 7+00
(PR) - 6+00
6410
6415
6420
6425
6430
6435

MATCHLINE STA: PR-6+00
(SEE SHEET EC-2a)

MATCHLINE STA: PR-12+00
(SEE SHEET EC-2c)

PHASE 1 & 2 REVEGETATION WARNING SIGNS SHALL REMAIN IN PLACE (EAST SIDE OF THE WORK AREA) FOR THE DURATION OF PHASE 3.
5 SIGNS (TYP.)

MINIMUM OF 5' BETWEEN CONSTRUCTION LIMIT FENCE AND TOP OF PROPOSED CHANNEL (TYP).

(3 / D-2) INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE
1,345 ±LF (PHASE 3)

(1 / D-2) INSTALL AND MAINTAIN FILTER FENCE
645 ±LF
(PHASE 3)

APN 132-061-01 TO 132-061-24
HOA PROPERTY MANAGEMENT SERVICE

REVISIONS			
MARK	DATE	BY	

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PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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SEAL OF WASHOE COUNTY
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 3 STATION 6+00 TO 12+00

DATE
6/2012

SHEET EC-3b

SHEET 104 OF 134

INSTALL AND MAINTAIN REVEGETATION WARNING SIGNS EVERY 100' OF CLF
9 SIGNS (TYP.)
(PHASE 3)
(5 / D-2)

INSTALL AND MAINTAIN FILTER FENCE
315 ±LF
(PHASE 3)
(1 / D-2)

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE
690 ±LF
(PHASE 3)
(3 / D-2)

CONSTRUCTION LIMIT FENCE SHALL BE INSTALLED 4' OFF FILTER FENCE (TYP.)

PHASE 1 & 2 REVEGETATION WARNING SIGNS MAY BE RE-USED / RE-ORIENTED/ RELOCATED WITHIN 10' OF PHASE 3 CONSTRUCTION LIMIT FENCING (WEST SIDE OF THE WORK AREA) AFTER PHASE 2 COMPLETION AND ACCEPTANCE OF ENGINEER FOR DURATION OF PHASE 3.
5 SIGNS (TYP.)

MATCHLINE STA: PR-12+00
(SEE SHEET EC-2b)

MATCHLINE STA: PR-18+00
(SEE SHEET EC-2d)

EX-15+00 EX-16+00 EX-17+00 EX-18+00 EX-19+00 EX-20+00

(PR) - 13+00 (PR) - 14+00 (PR) - 15+00 (PR) - 16+00 (PR) - 17+00

(BL) - 9+00 (BL) - 8+00 (BL) - 7+00 (BL) - 6+00 (BL) - 10+00 (BL) - 11+00

6445 6450 6455 6460 6465 6470 6475 6480

PHASE 3 ADJUSTMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO THE REMAINDER OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE IN THIS AREA BEING INSTALLED. SEE SPECIAL TECHNICAL SPECIFICATIONS.

MATCH LOCATION FOR PHASE 3 ADJUSTMENT
(1 / EC-2c)

(1 / EC-2c) PHASE 3 ADJUSTMENT

(3 / D-2) INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE
535 ±LF
(PHASE 3 & PHASE 3 ADJUSTMENT WORK PERIODS)

PHASE 1 & 2 REVEGETATION WARNING SIGNS SHALL REMAIN IN PLACE (EAST SIDE OF THE WORK AREA) FOR THE DURATION OF PHASE 3.
4 SIGNS (TYP.)

PROPOSED CONSTRUCTION BASELINE ALIGNMENT (TYP.)

MINIMUM OF 5' BETWEEN CONSTRUCTION LIMIT FENCE AND TOP OF PROPOSED CHANNEL (TYP).

APN 132-061-01 TO 132-061-24
HOA PROPERTY MANAGEMENT SERVICE

(1 / D-2) INSTALL AND MAINTAIN FILTER FENCE, 155 ± LF
(PHASE 3 ADJUSTMENT)

INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE 365 ± LF (PHASE 3 ADJUSTMENT)
(3 / D-2)

BEGIN / END / MATCH LOCATION FOR PHASE 3 WORK

PHASE 3 ADJUSTMENT
SCALE 1"=20'
(1 / EC-2c)

(1 / D-2) INSTALL AND MAINTAIN FILTER FENCE
300 ±LF
(PHASE 3)

(3 / D-2) INSTALL AND MAINTAIN CONSTRUCTION LIMIT FENCE
675 ±LF
(PHASE 3)

APN 132-061-01 TO 132-061-24
HOA PROPERTY MANAGEMENT SERVICE

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASE 3 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY PHASE 1 & 2 FILTER FENCE WILL BE REMOVED AND DISPOSED OF (AFTER TRPA AND ENGINEERS APPROVAL) PRIOR TO INSTALLATION OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHOWN ON THIS SHEET). ALL FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHALL BE MAINTAINED FOR THE FULL DURATION OF PHASE 3 AND FILTER FENCE SHALL ADDITIONALLY BE MAINTAINED FOR THE FULL DURATION OF REVEGETATION ESTABLISHMENT.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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VALLEY MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
TEMPORARY EROSION CONTROL PHASE 3 STATION 12+00 TO 18+00

DATE
6/2012

SHEET EC-3c

SHEET 105 OF 134

NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASE 3 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY PHASE 1 & 2 FILTER FENCE WILL BE REMOVED AND DISPOSED OF (AFTER TRPA AND ENGINEERS APPROVAL) PRIOR TO INSTALLATION OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHOWN ON THIS SHEET). ALL FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHALL BE MAINTAINED FOR THE FULL DURATION OF PHASE 3 AND FILTER FENCE SHALL ADDITIONALLY BE MAINTAINED FOR THE FULL DURATION OF REVEGETATION ESTABLISHMENT.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.
6. SEE SHEET EC-3D1 THROUGH EC-3D3 FOR ADDITIONAL EROSION CONTROL MEASURES IN THIS AREA.

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
20 10 0 20

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
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Zephyr Cove, NV 89448
(775) 588-9069 Main

VALLEY & MOUNTAIN CONSULTING

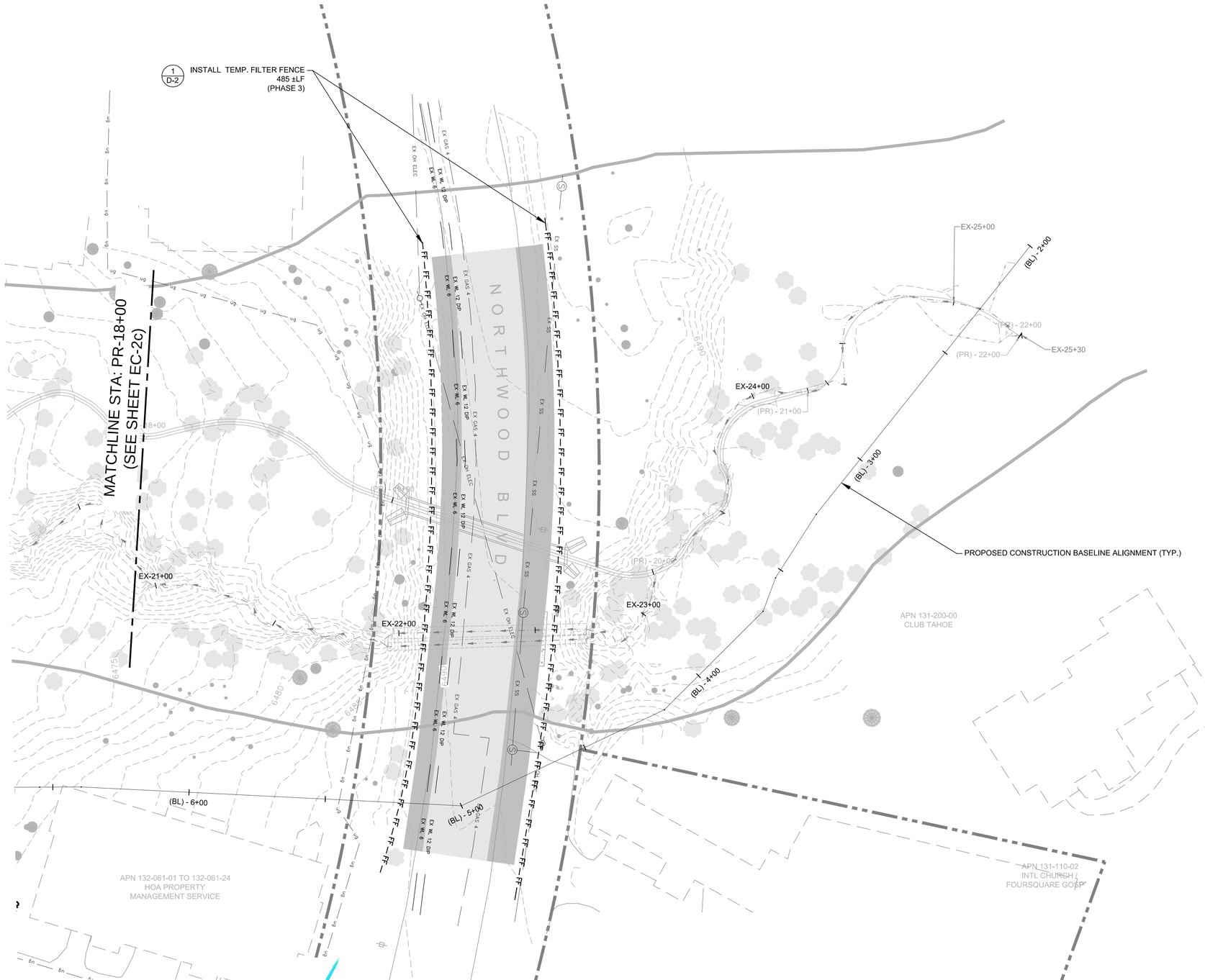
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 3 STATION 18+00 TO 19+25

DATE
6/2012

SHEET EC-3d1

SHEET 106 OF 134



NOTES:

1. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR CONSTRUCTION PHASING. GENERALLY, PHASE 1 SHALL BE CONSTRUCTION OF NEW CHANNEL, PHASE 2 SHALL BE SEASONING OF NEW CHANNEL, AND PHASE 3 SHALL BE CONSTRUCTION OF TIE-INS AND EXISTING CHANNEL BACKFILL.
2. TEMPORARY EROSION CONTROL FOR PHASE 3 SHOWN ON THIS SHEET.
3. SEE ORDER OF WORK FOR DETAILED INFORMATION. GENERALLY PHASE 1 & 2 FILTER FENCE WILL BE REMOVED AND DISPOSED OF (AFTER TRPA AND ENGINEERS APPROVAL) PRIOR TO INSTALLATION OF PHASE 3 FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHOWN ON THIS SHEET). ALL FILTER FENCE AND CONSTRUCTION LIMIT FENCE SHALL BE MAINTAINED FOR THE FULL DURATION OF PHASE 3 AND FILTER FENCE SHALL ADDITIONALLY BE MAINTAINED FOR THE FULL DURATION OF REVEGETATION ESTABLISHMENT.
4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.
6. SEE SHEET EC-3D1 & EC-3D3 FOR ADDITIONAL EROSION CONTROL MEASURES IN THIS AREA.

LEGEND

—— CLF — CLF —— CONSTRUCTION LIMIT FENCE

— FF — FF — FF — FILTER FENCE

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
No. 16993
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Exp. 12/31/13
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Valley & Mountain Consulting

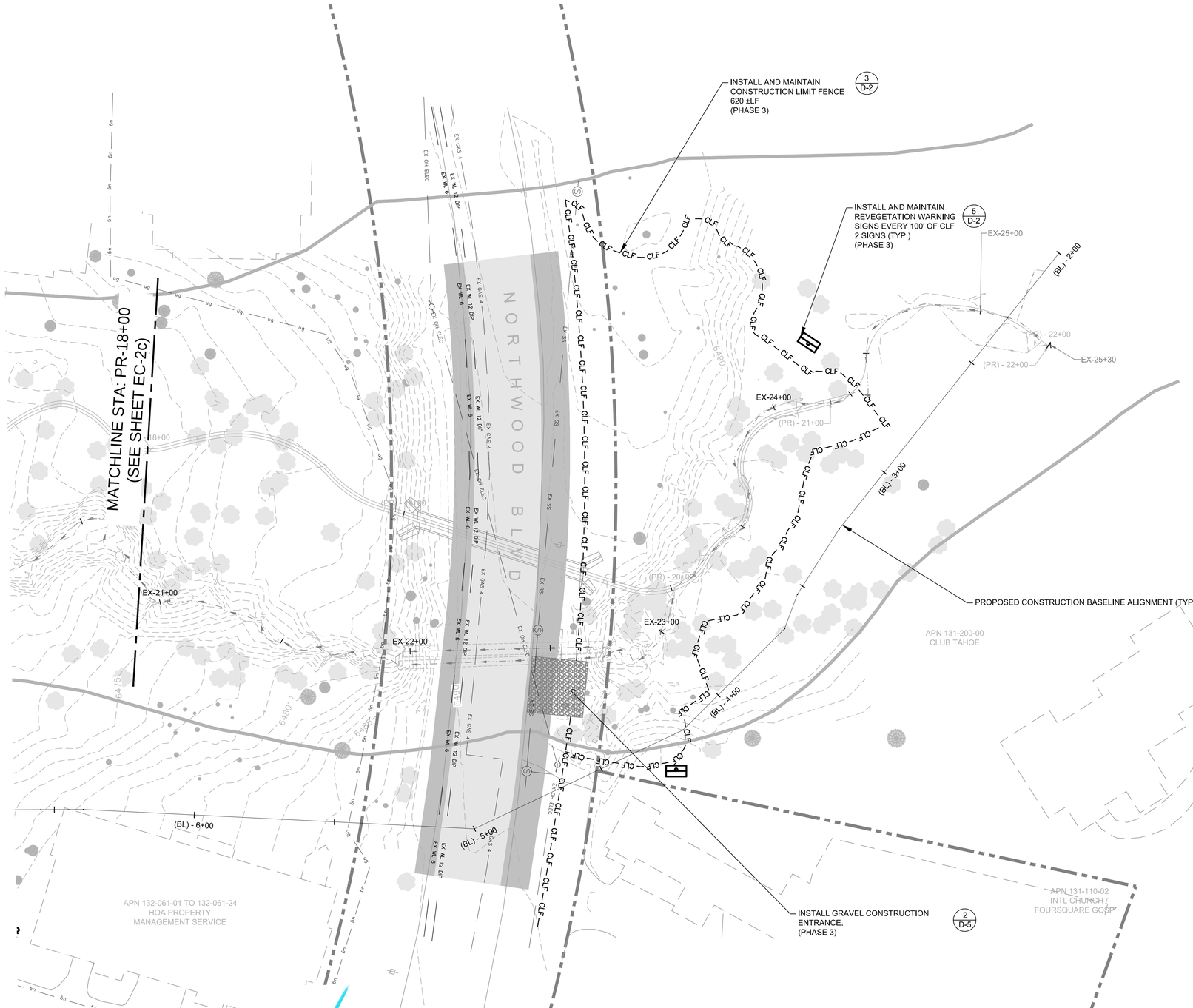
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 3 NORTHWOOD BLVD. WORK

DATE
6/2012

SHEET EC-3d2

SHEET 107 OF 134



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4. SEE SHEET S-1 FOR STAGING AND STORAGE.
5. NO CONSTRUCTION LIMIT FENCE OR FILTER FENCE FROM PHASE 1 OR 2 SHALL BE REUSED FOR PHASE 3 WORK.
6. SEE SHEET EC-3D1 & EC-3D2 FOR ADDITIONAL EROSION CONTROL MEASURES IN THIS AREA.

LEGEND

CLF — CLF — CONSTRUCTION LIMIT FENCE

FF — FF — FF — FILTER FENCE

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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PROFESSIONAL ENGINEER-STATE OF NEVADA
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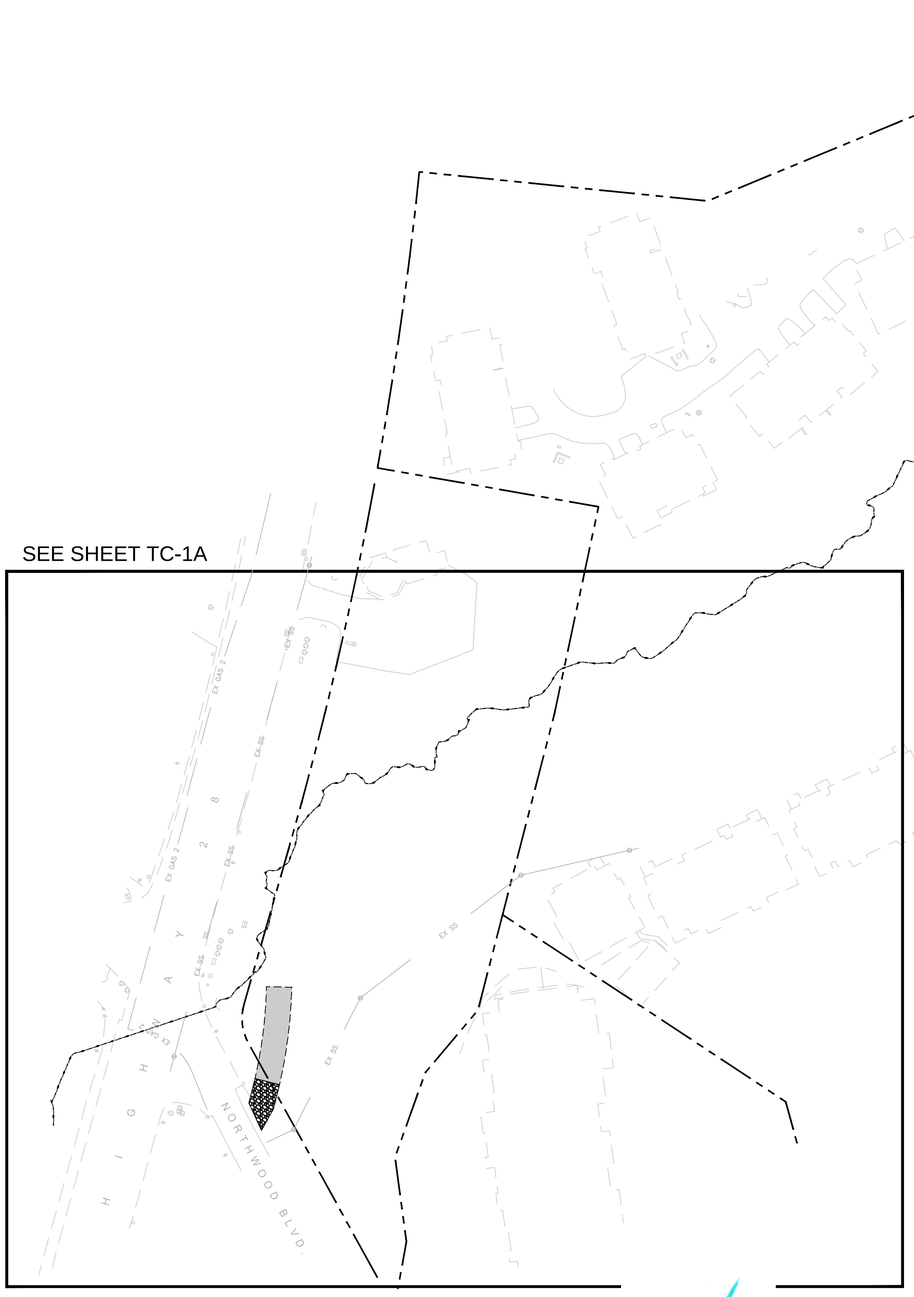
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TEMPORARY EROSION CONTROL PHASE 3 STATION 19+50 TO 22+19

DATE
6/2012

SHEET EC-3d3

SHEET 108 OF 134



SEE SHEET TC-1A

EXISTING CHANNEL ALIGNMENT

SEE SHEET(S) TC-1B & TC-1C

NOTES:

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LEGEND

EXISTING CHANNEL ALIGNMENT

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
60 30 0 60

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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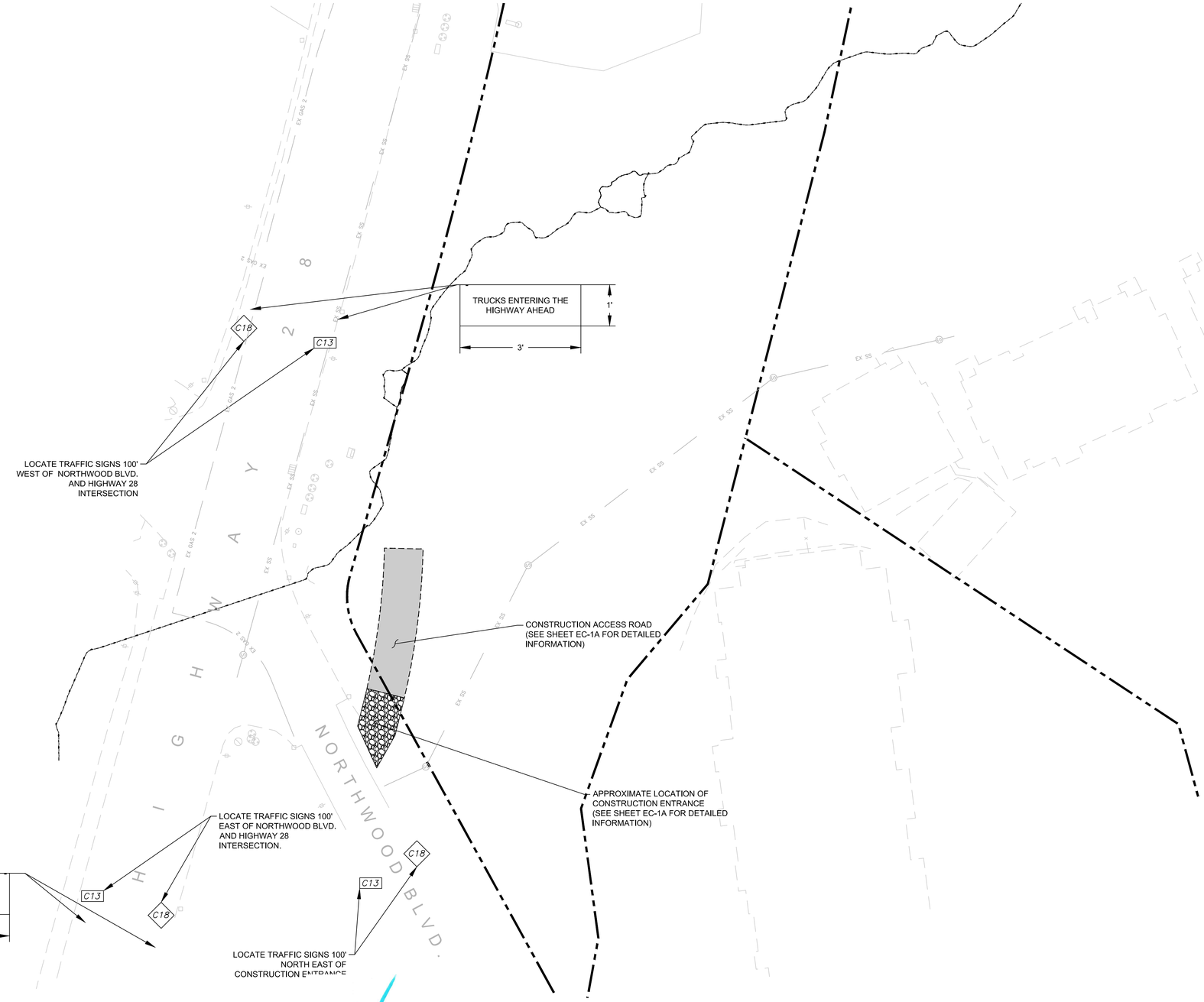
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL "PHASE ONE" INDEX SHEET

DATE
6/2012

Sheet TC-1i
SHEET 109 OF 134



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6. CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL INCLUDE SIGNAGE FOR TRAFFIC CONTROL RELATED TO TRUCKS ENTERING FROM THE PROJECT AREA.
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LEGEND

- PROPOSED ALIGNMENT
- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL
- C13 — "END CONSTRUCTION" SIGN AND LOCATION
- C18 — "ROAD CONSTRUCTION AHEAD" SIGN AND LOCATION
- CONSTRUCTION ACCESS
- CONSTRUCTION ENTRANCE (TYP)
- TRAFFIC SIGN (TYP.)

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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30 15 0 30

PROFESSIONAL ENGINEER-STATE OF NEVADA
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MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

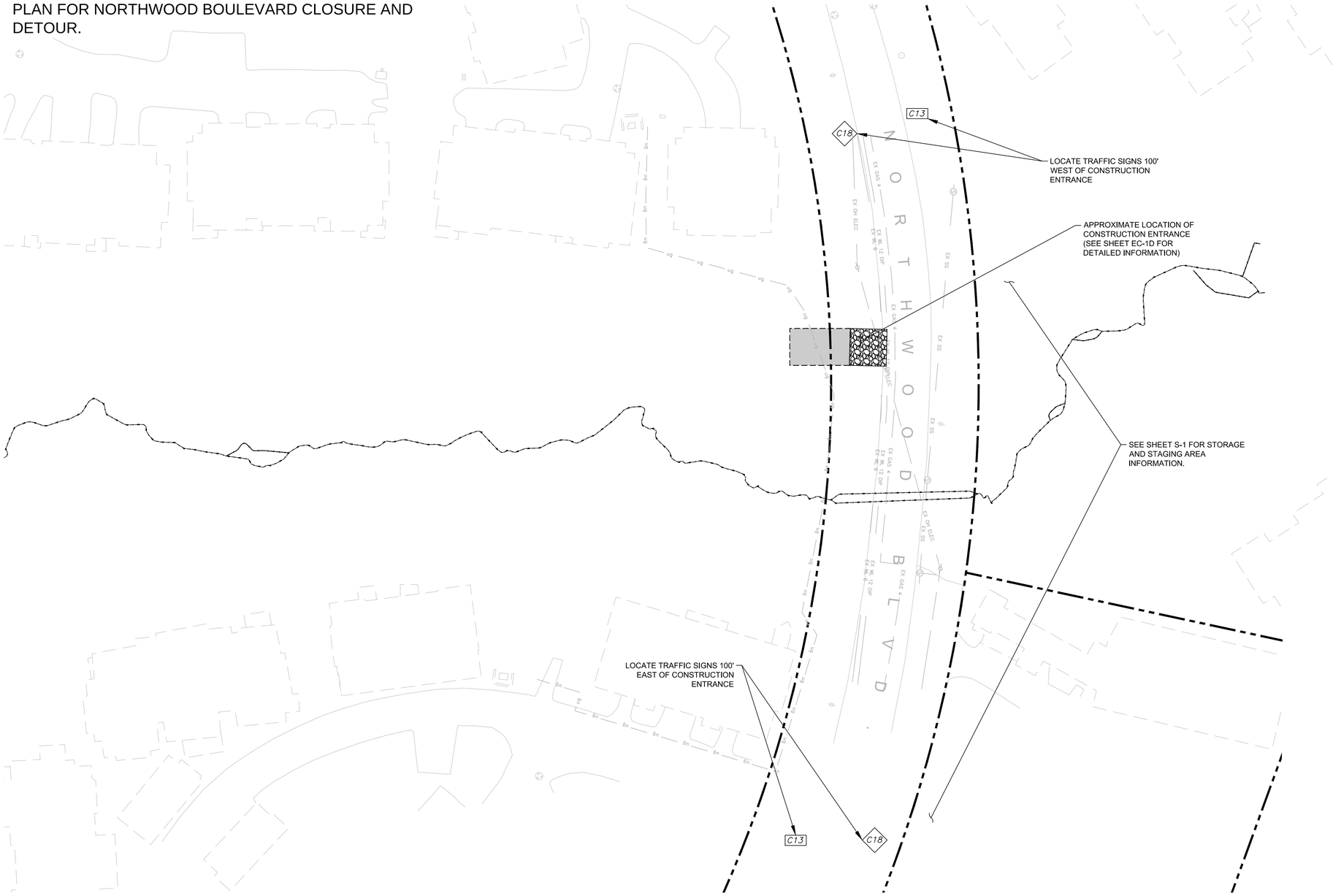
TRAFFIC CONTROL PHASE ONE SOUTH ENTRANCE

DATE
6/2012

Sheet TC-1A

SHEET 110 OF 134

THIS SHEET SHALL ONLY BE USED FOR TRAFFIC CONTROL WHEN NORTHWOOD BOULEVARD IS "OPEN" TO TRAFFIC. SEE SHEET TC-1C FOR TRAFFIC CONTROL PLAN FOR NORTHWOOD BOULEVARD CLOSURE AND DETOUR.



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LEGEND

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- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL
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- C18 — "ROAD CONSTRUCTION AHEAD" SIGN AND LOCATION
- CONSTRUCTION ACCESS
- CONSTRUCTION ENTRANCE (TYP)
- TRAFFIC SIGN (TYP.)

REVISIONS			
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PROFESSIONAL ENGINEER-STATE OF NEVADA
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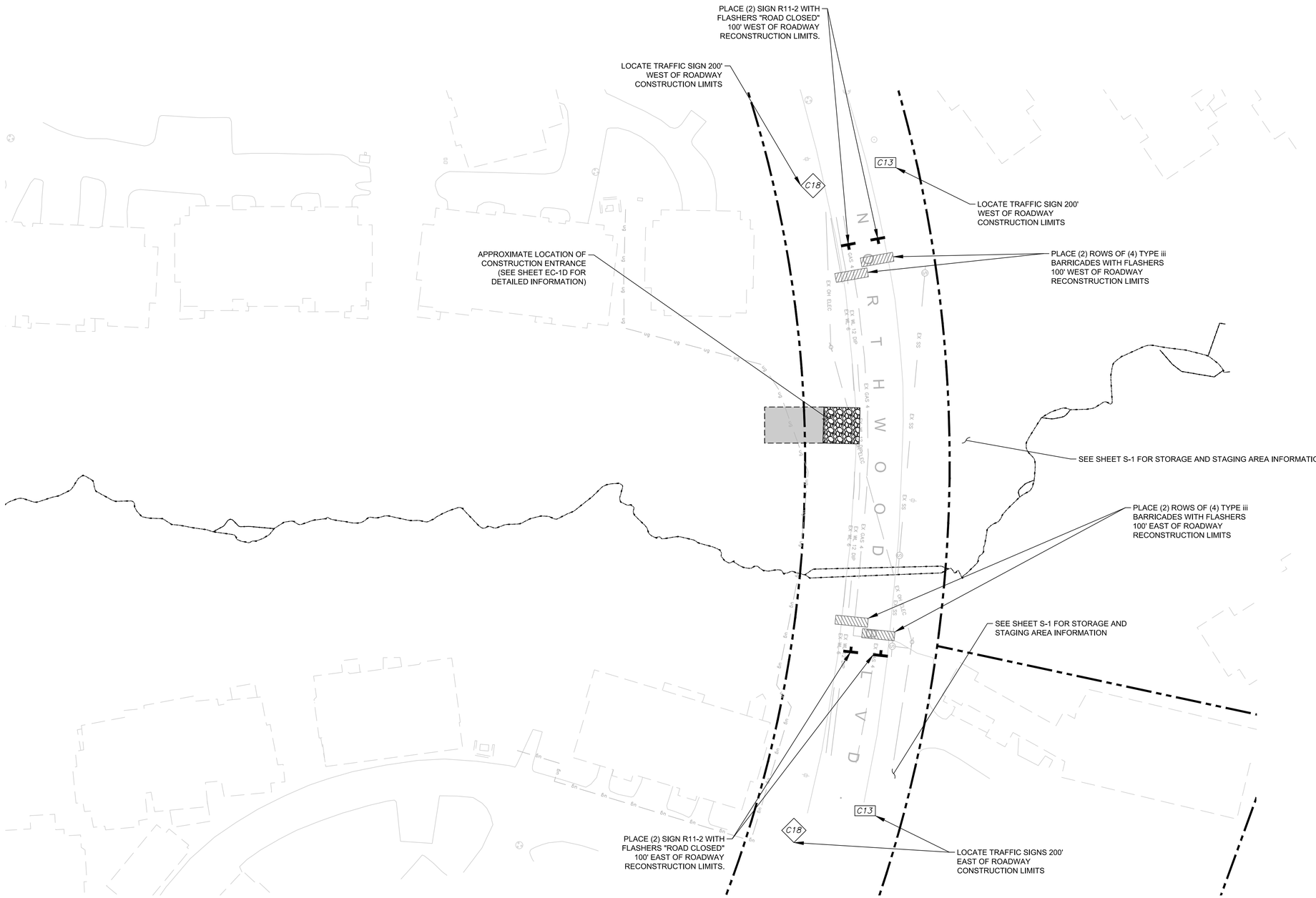
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL PHASE ONE NORTH ENTRANCE

DATE
6/2012

Sheet TC-1B
SHEET 111 OF 134



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- CONSTRUCTION ACCESS
- CONSTRUCTION ENTRANCE (TYP)
- TRAFFIC SIGN (TYP.)
- ROADWAY BARRICADE (TYP.)

REVISIONS			
MARK	DATE	BY	

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PROFESSIONAL ENGINEER-STATE OF NEVADA
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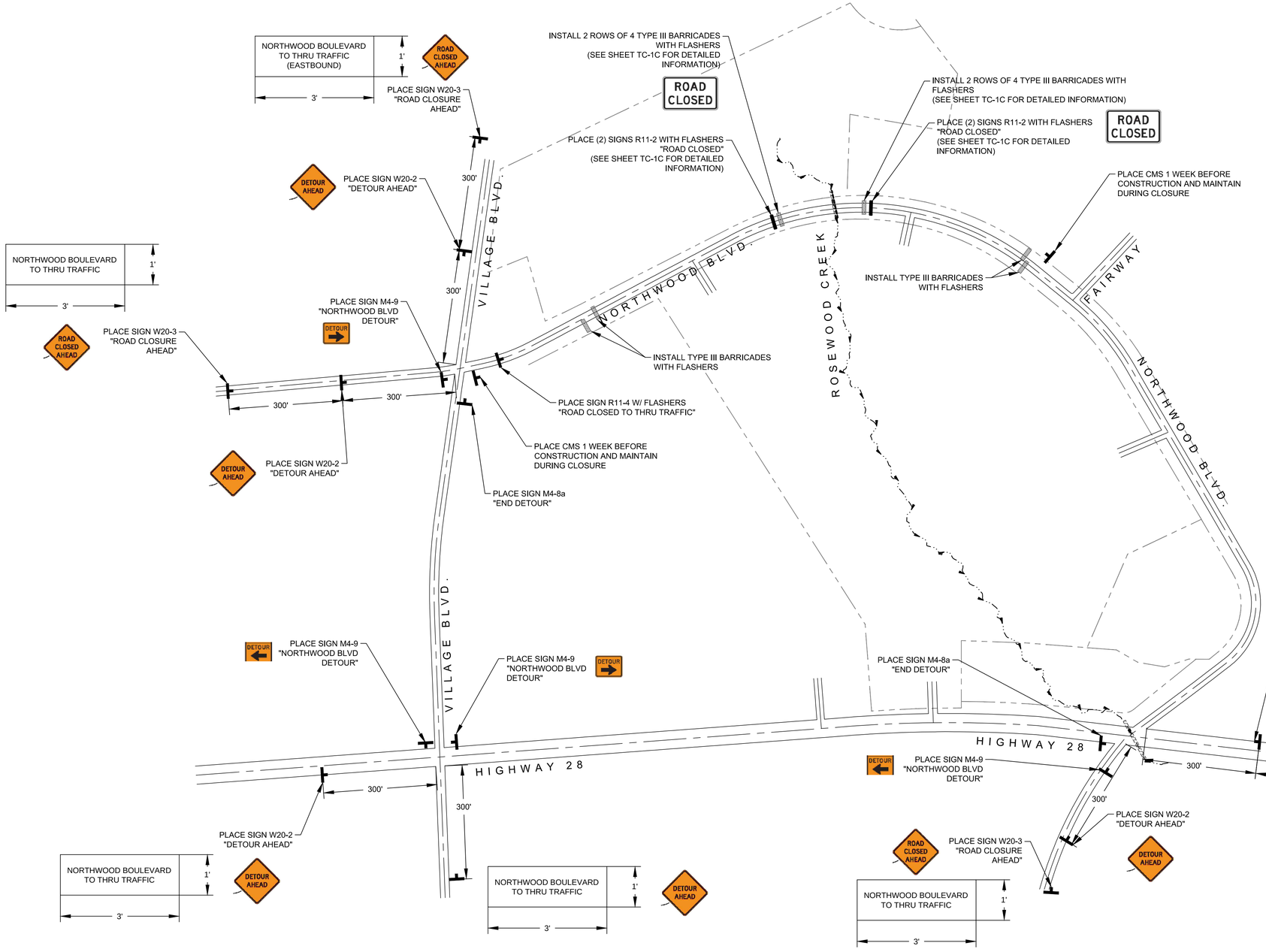
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
TRAFFIC CONTROL PHASE ONE ROAD CLOSURE

DATE
6/2012

Sheet TC-1C
SHEET 112 OF 134



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8. DATES OF ROAD CLOSURE WILL BE PROVIDED BY THE CONTRACTOR FOR ACCEPTANCE BY THE ENGINEER. NO WEEKENDS (FRIDAY AT NOON THRU MONDAY AT 9AM) OR HOLIDAY CLOSURES SHALL BE ALLOWED FOR.
9. CHANGEABLE MESSAGE SIGNS (CMS) SHALL BE CHANGED DAILY AND SETUP A MINIMUM OF 2 WEEKS PRIOR TO ANY ROAD CLOSURE TO PROVIDE SPECIFIC CLOSURE INFORMATION.

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
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150 75 0 150

PROFESSIONAL ENGINEER-STATE OF NEVADA
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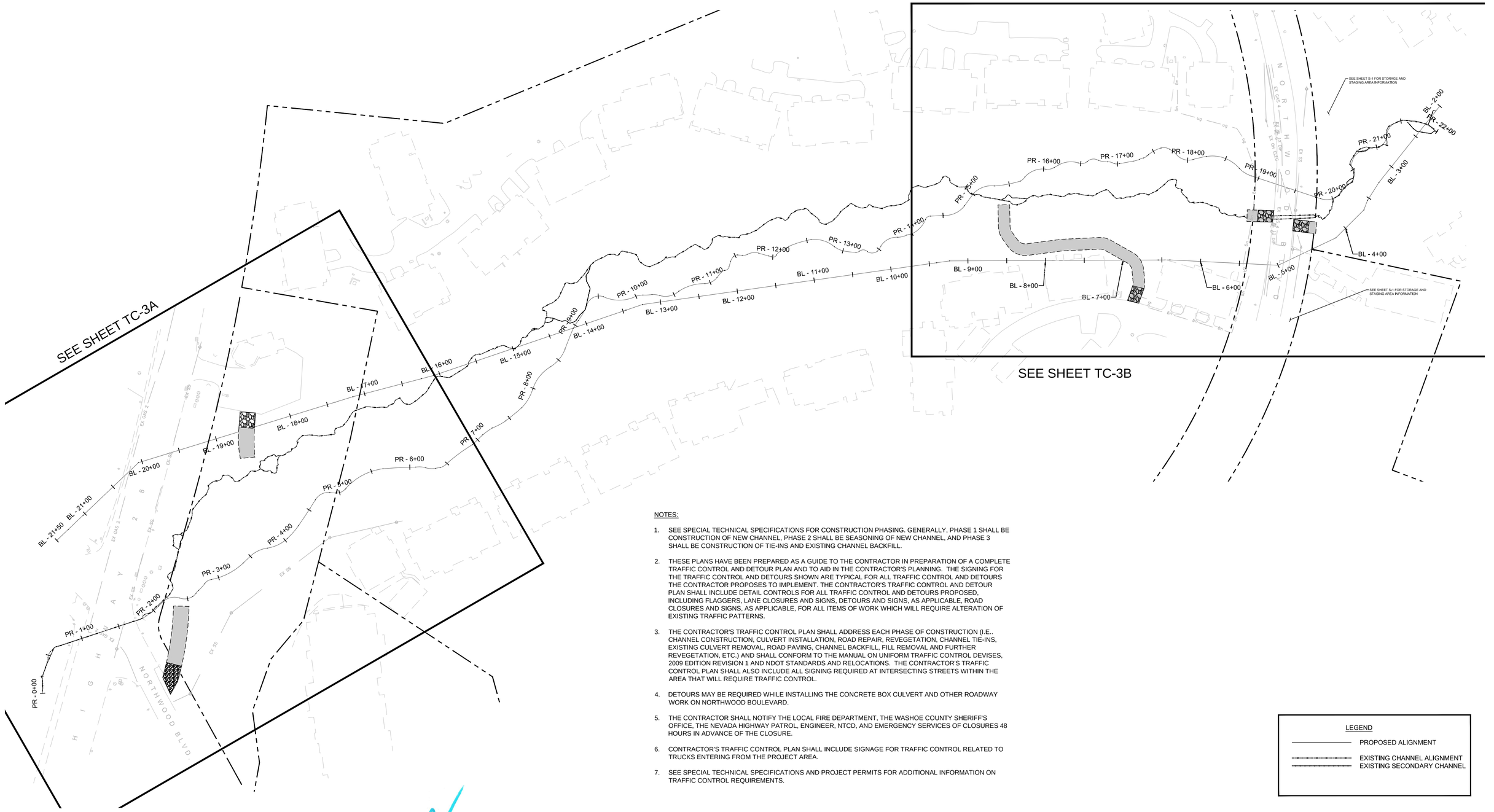
VALLEY MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL PHASE ONE NORTHWOOD DETOUR

DATE
6/2012

Sheet TC-2
SHEET 113 OF 134



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4. DETOURS MAY BE REQUIRED WHILE INSTALLING THE CONCRETE BOX CULVERT AND OTHER ROADWAY WORK ON NORTHWOOD BOULEVARD.

5. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, THE WASHOE COUNTY SHERIFF'S OFFICE, THE NEVADA HIGHWAY PATROL, ENGINEER, NTCD, AND EMERGENCY SERVICES OF CLOSURES 48 HOURS IN ADVANCE OF THE CLOSURE.

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7. SEE SPECIAL TECHNICAL SPECIFICATIONS AND PROJECT PERMITS FOR ADDITIONAL INFORMATION ON TRAFFIC CONTROL REQUIREMENTS.

LEGEND

- PROPOSED ALIGNMENT
- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL

REVISIONS

MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
60 30 0 60

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
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No. 16993

SEAL OF WASHOE COUNTY
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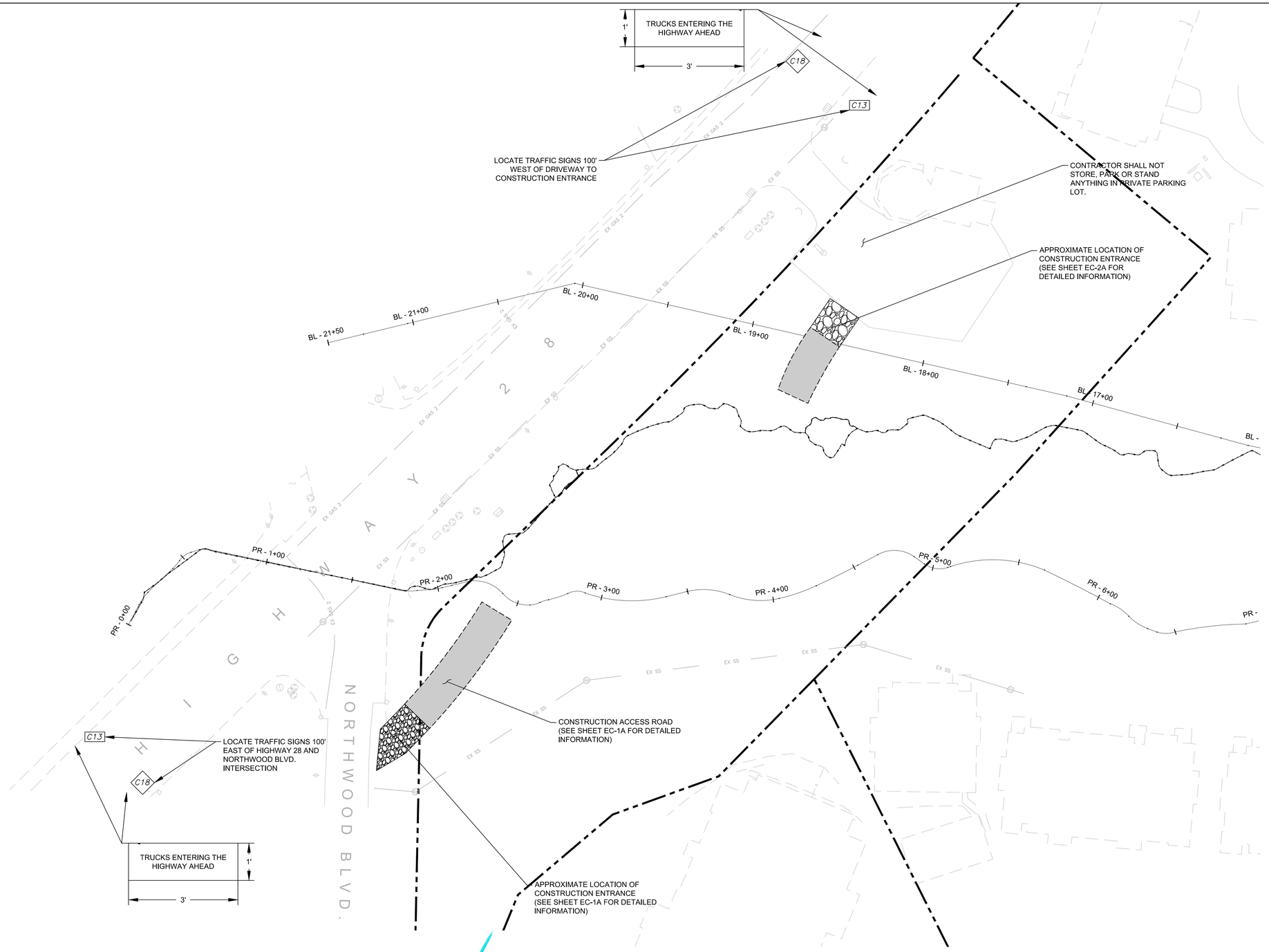
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL "PHASE THREE" INDEX SHEET

DATE
6/2012

Sheet TC-3i



NOTES:

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LEGEND

- PROPOSED ALIGNMENT
- EXISTING CHANNEL ALIGNMENT
- EXISTING SECONDARY CHANNEL
- C13 — "END CONSTRUCTION" SIGN AND LOCATION
- C18 — "ROAD CONSTRUCTION AHEAD" SIGN AND LOCATION
- CONSTRUCTION ACCESS
- CONSTRUCTION ENTRANCE (TYP)

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
30 15 0 30

PROFESSIONAL ENGINEER STATE OF NEVADA
STEPHEN H. PECK
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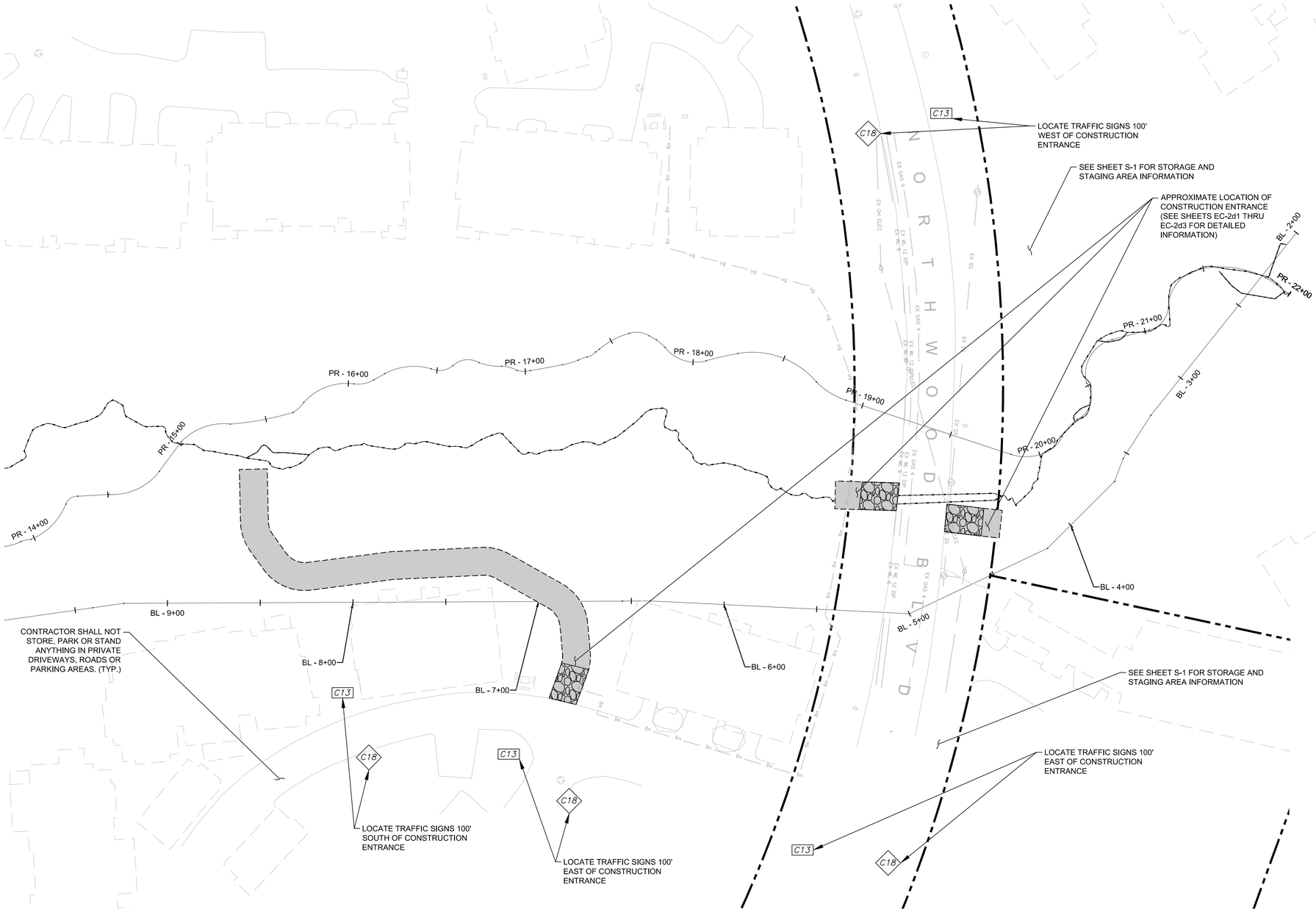
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL PHASE THREE SOUTH ENTRANCE

DATE
6/2012

Sheet TC-3A



NOTES:

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LEGEND

- PROPOSED ALIGNMENT
- EXISTING CHANNEL ALIGNMENT / EXISTING SECONDARY CHANNEL
- C13 — "END CONSTRUCTION" SIGN AND LOCATION
- C18 — "ROAD CONSTRUCTION AHEAD" SIGN AND LOCATION
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- CONSTRUCTION ENTRANCE (TYP)

REVISIONS			
MARK	DATE	BY	

GRAPHIC SCALE
SCALE IN FEET
30 15 0 30

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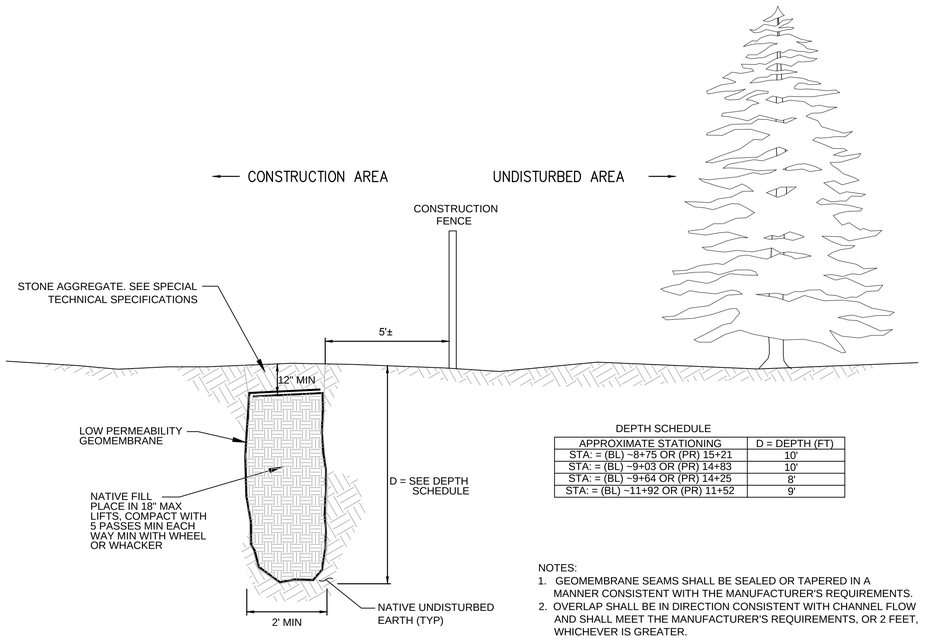
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

TRAFFIC CONTROL PHASE THREE NORTH ENTRANCE

DATE
6/2012

Sheet TC-3B
SHEET 116 OF 134



DEPTH SCHEDULE

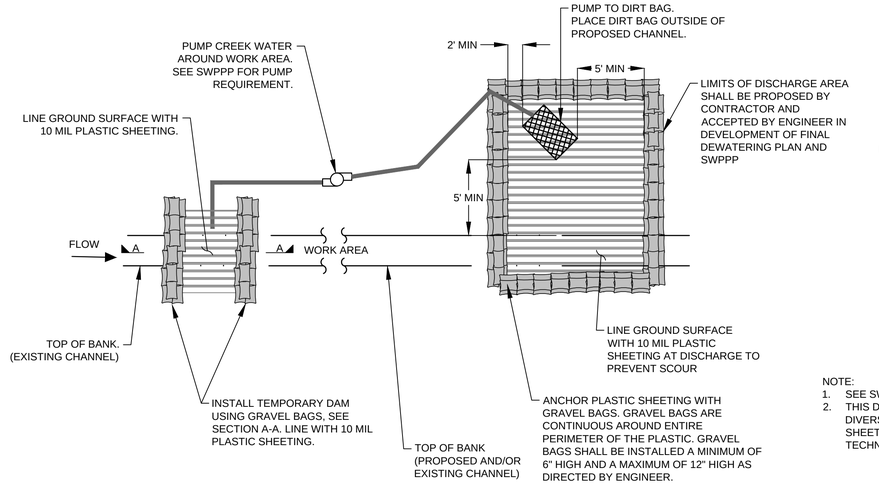
APPROXIMATE STATIONING	D = DEPTH (FT)
STA: = (BL) ~8+75 OR (PR) 15+21	10'
STA: = (BL) ~9+03 OR (PR) 14+83	10'
STA: = (BL) ~9+64 OR (PR) 14+25	8'
STA: = (BL) ~11+92 OR (PR) 11+52	9'

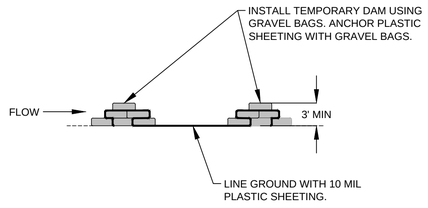
NOTES:
1. GEOMEMBRANE SEAMS SHALL BE SEALED OR TAPERED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS.
2. OVERLAP SHALL BE IN DIRECTION CONSISTENT WITH CHANNEL FLOW AND SHALL MEET THE MANUFACTURER'S REQUIREMENTS, OR 2 FEET, WHICHEVER IS GREATER.

TEMPORARY BURIED PROTECTION (PHASE 1)

NTS

1 / D–1





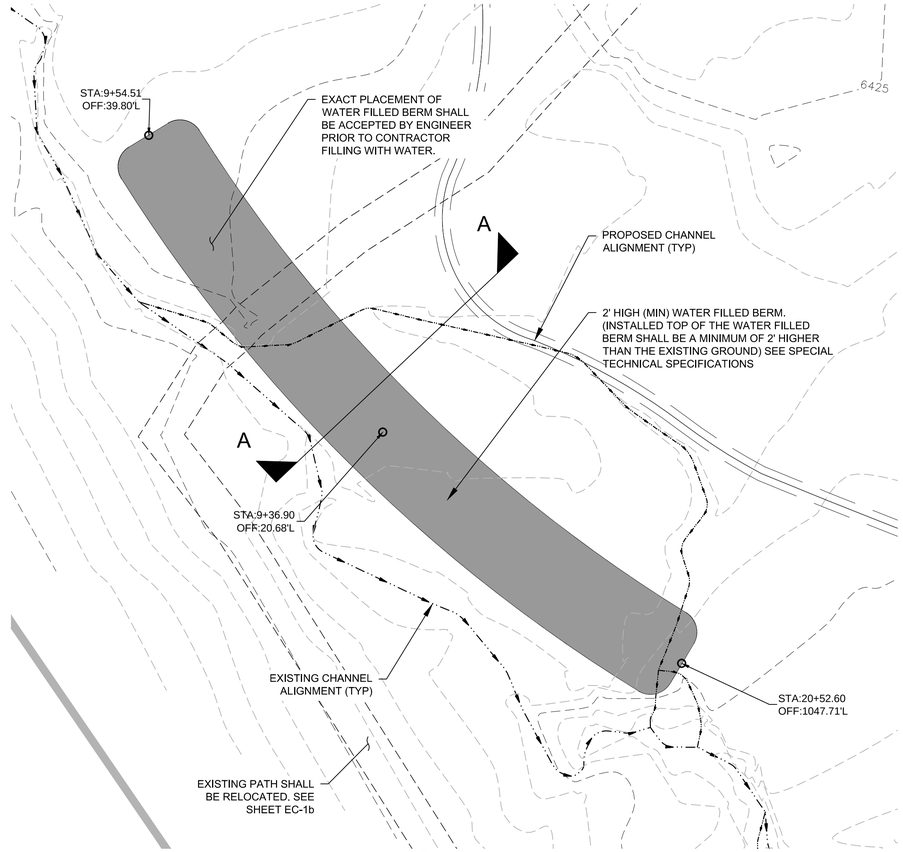
SECTION A-A

NOTE:
1. SEE SWPPP FOR SPECIFIC DIVERSION REQUIREMENTS.
2. THIS DETAIL IS A SCHEMATIC OVERVIEW ONLY FOR THE DIVERSION. ADDITIONAL INFORMATION IS PROVIDED ON SHEETS DIV-1, DIV-2, DIV-3 AND IN THE SWPPP AND SPECIAL TECHNICAL SPECIFICATIONS.

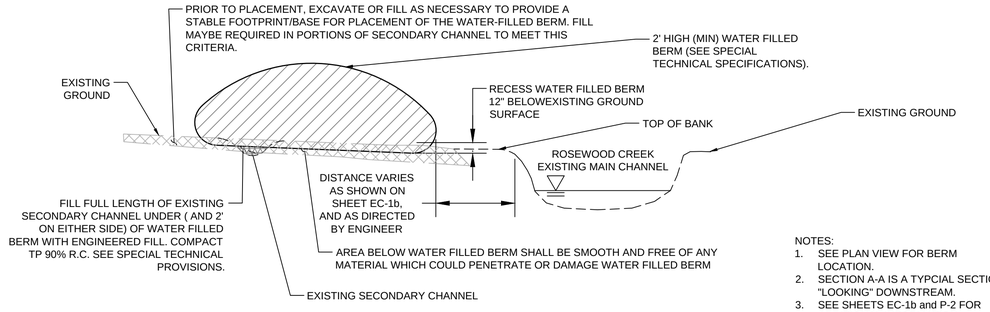
TEMPORARY DIVERSION (OUT OF CHANNEL) (TYP.)

NTS

2 / D–1



PLAN



NOTES:
1. SEE PLAN VIEW FOR BERM LOCATION.
2. SECTION A-A IS A TYPCIAL SECTION "LOOKING" DOWNSTREAM.
3. SEE SHEETS EC-1b and P-2 FOR ADDITIONAL INFORMATION.

SECTION A-A

WATER FILLED BERM

NTS

3 / D–1

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
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No. 16993

SEAL OF WASHOE COUNTY
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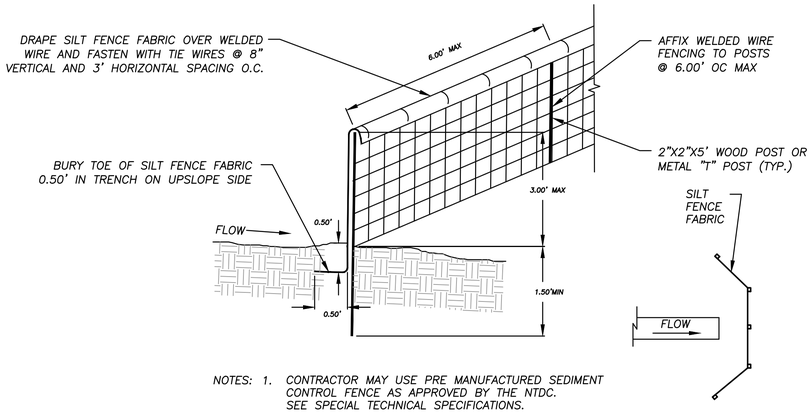
VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

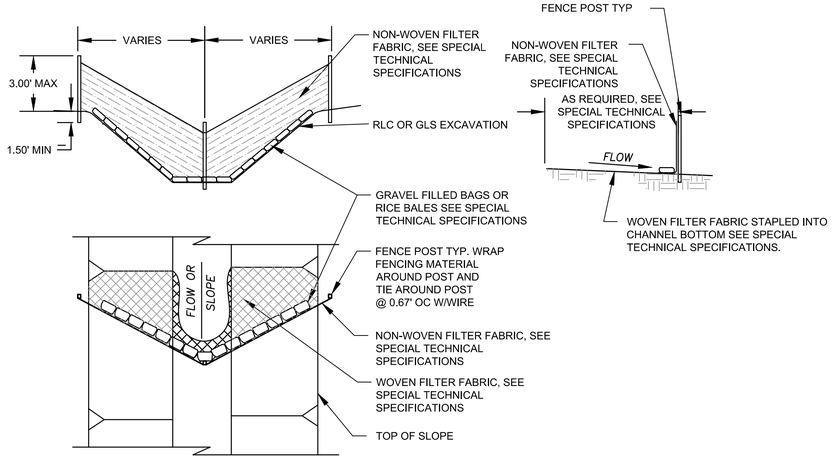
Sheet D-1
SHEET 117 OF 134



NOTES:
1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY THE NTDC. SEE SPECIAL TECHNICAL SPECIFICATIONS.
2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

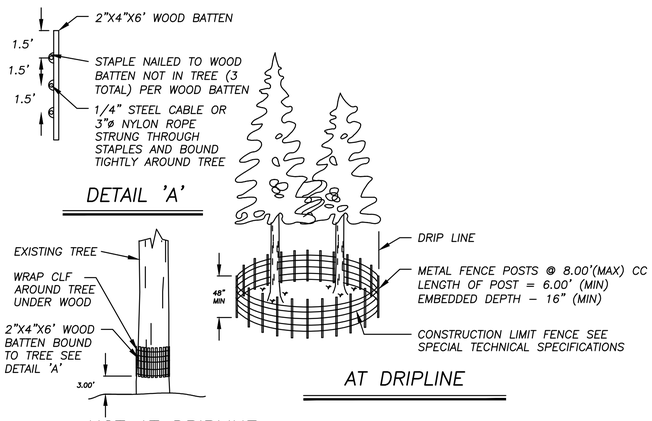
TYPICAL REINFORCED FILTER FENCE TYPE 2 AT DOWNHILL EDGE OF CUT AND FILL AREAS (FF) & CULVERT INVERTS

NTS — 1 / D-2



TYPICAL FILTER FENCE TYPE 3

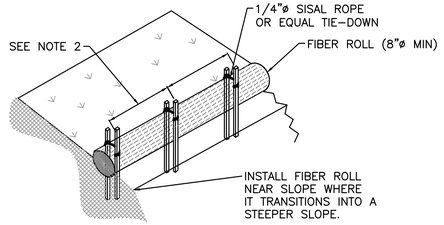
NTS — 2 / D-2

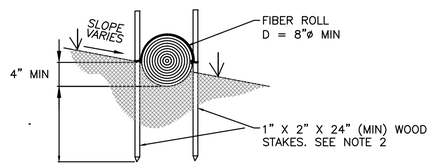


NOTE: DETAIL SHOWN IS FOR TREE PROTECTION FENCE, MATERIAL AND SPACING SHOWN ALSO APPLY TO CONSTRUCTION LIMIT FENCE. CLF & TREE PROTECTION FENCE SHALL BE 48" HIGH MINIMUM. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR TRPA AT PREGRADE MEETING.

TYPICAL TREE PROTECTION AND CONSTRUCTION LIMIT FENCE (CLF)

NTS — 3 / D-2

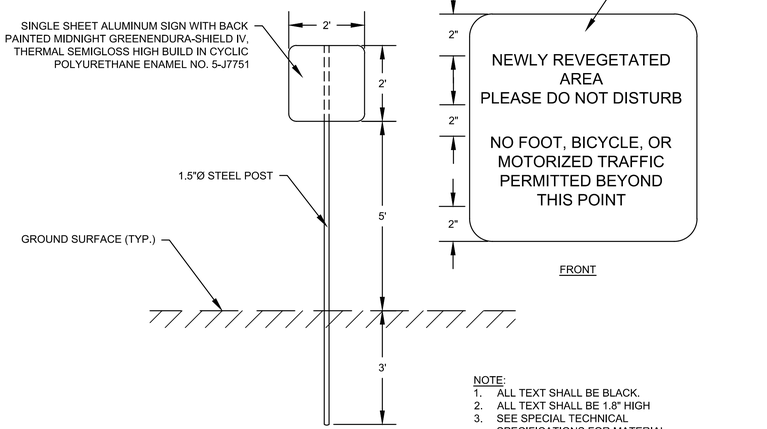




NOTE:
1. INSTALL FIBER ROLL ALONG LEVEL CONTOUR.
2. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TYPICAL FIBER ROLL INSTALLATION

NTS — 4 / D-2



NOTE:
1. ALL TEXT SHALL BE BLACK.
2. ALL TEXT SHALL BE 1.8" HIGH
3. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MATERIAL REQUIREMENTS

REVEGETATION WARNING SIGN

NTS — 5 / D-2

SEE SPECIAL TECHNICAL SPECIFICATIONS FOR SPECIFICATIONS REGARDING FILTER FABRIC, GRAVEL BAGS, RICE FIBER ROLLS, WEIGHTED COIR LOGS, AND FENCE POSTS.

SPACING INTERVALS FOR TYPE 1 FILTER FENCE, AND C&G SEDIMENT CONTROL SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.

LOCATIONS AND LF OF TYPE 2 FILTER FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. THE CONTRACTOR IS TO INCLUDE THESE AREAS IN HIS TEMPORARY EROSION CONTROL PLAN SUBMITTAL.

DIMENSION LIMITS OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE I [illegible] TION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD BY THE ENGINEER.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

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STATE OF NEVADA

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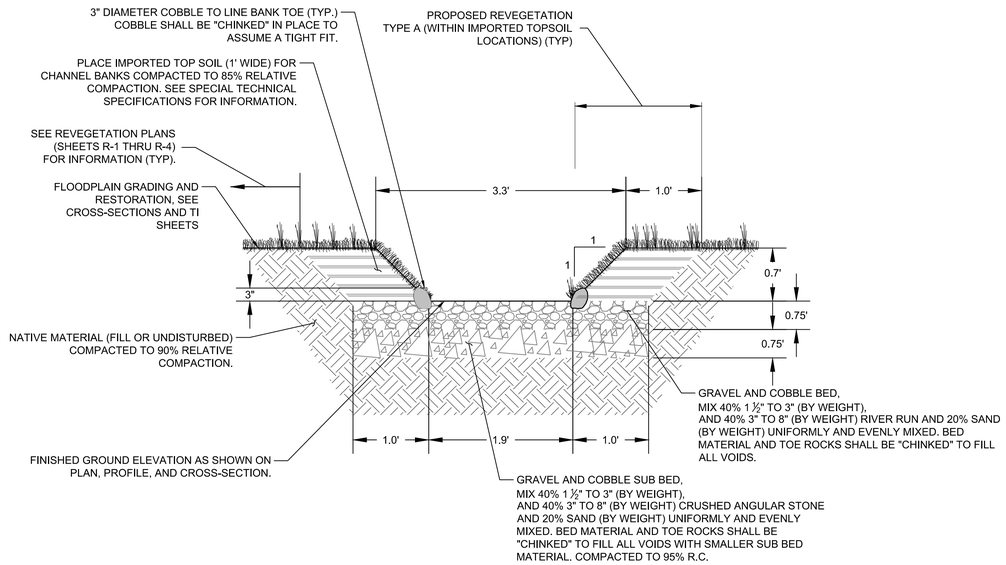
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

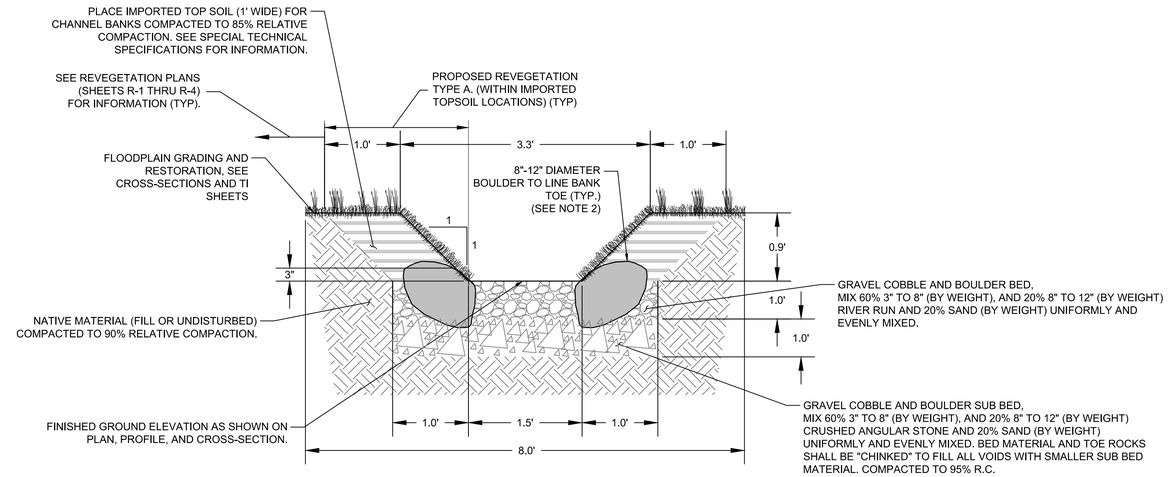
DATE
6/2012

Sheet D-2
SHEET 118 OF 134



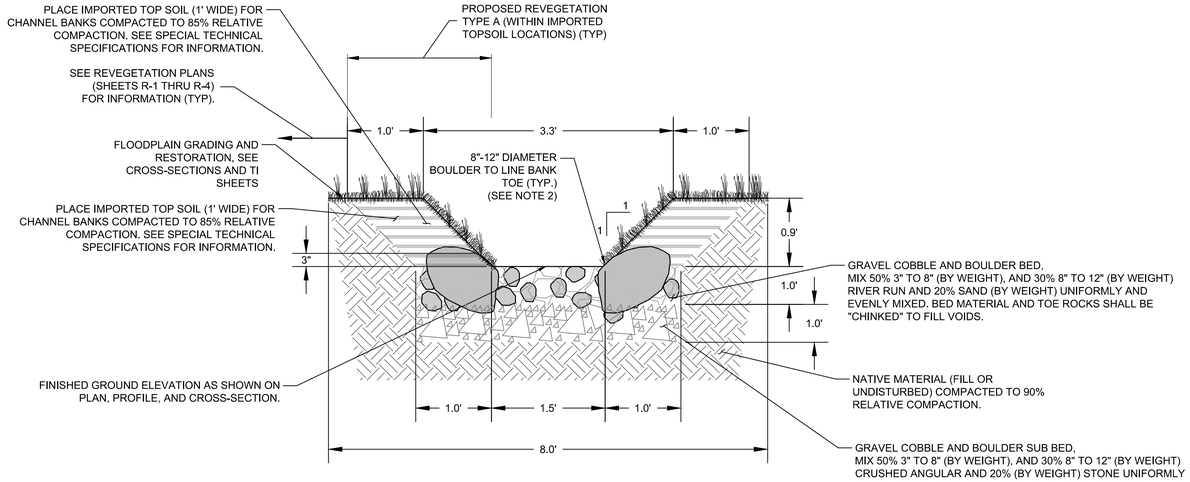
CHANNEL TYPE 1, GRADE<3% — 1 / D–3

NTS



CHANNEL TYPE 2, GRADE 3-5% — 2 / D–3

NTS



CHANNEL TYPE 3, GRADE 5-7% — 3 / D–3

NTS

NOTES:

1. REVEGETATION TREATMENT TO FOLLOW CONSTRUCTION OF CHANNEL BED TREATMENT TYPES.
2. BOULDERS SHALL BE "CHINKED" IN PLACE TO ASSUME A TIGHT FIT. SEE SPECIAL TECHNICAL SPECIFICATIONS.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp.12/31/13 — CIVIL — No. 16993

SEAL OF WASHOE COUNTY — STATE OF NEVADA

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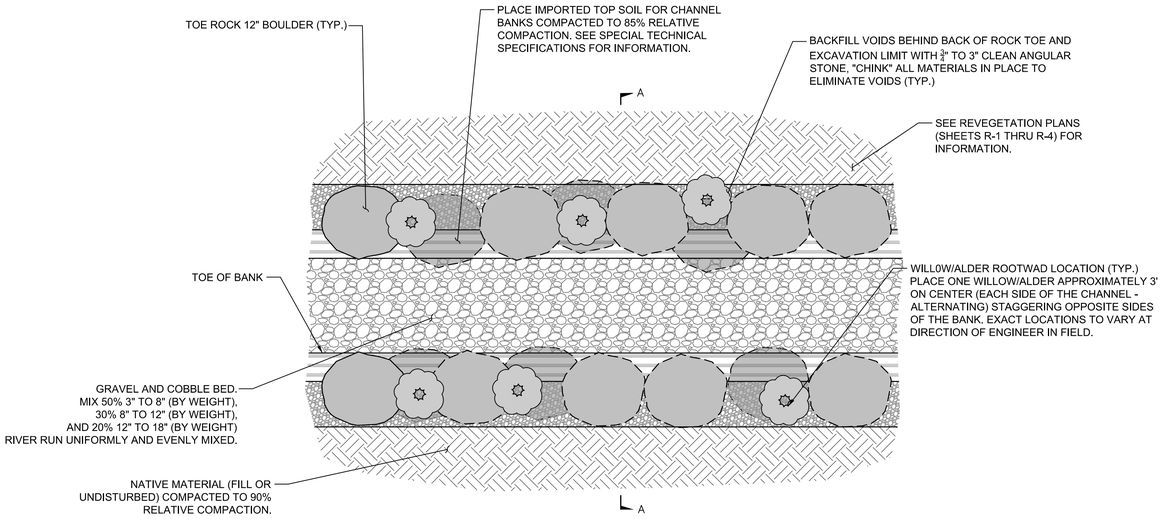
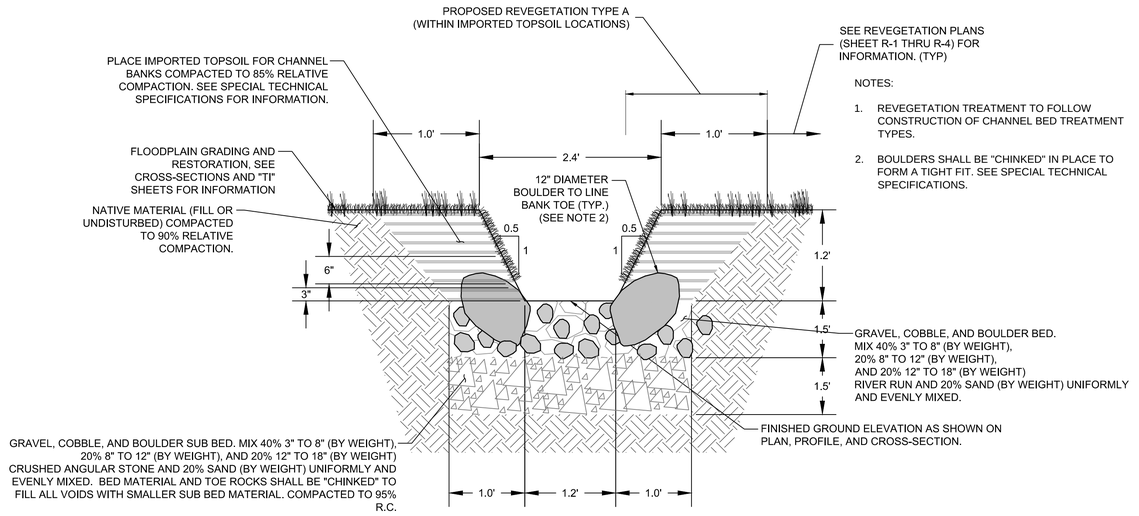
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE 6/2012

Sheet D-3



PLAN

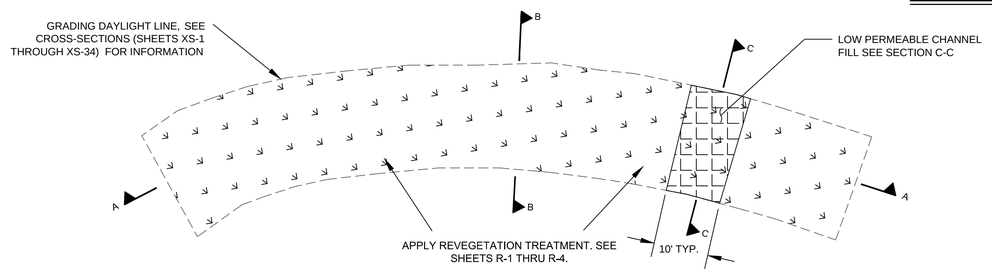


SECTION A-A

CHANNEL TYPE 4, GRADE > 7%

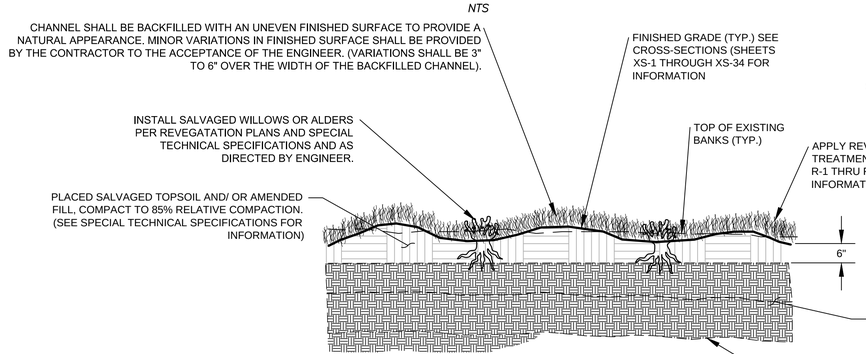
1 / D-4

NTS



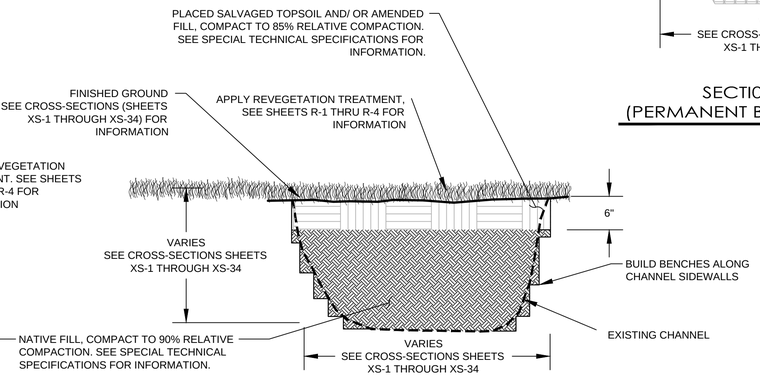
PLAN VIEW

NTS



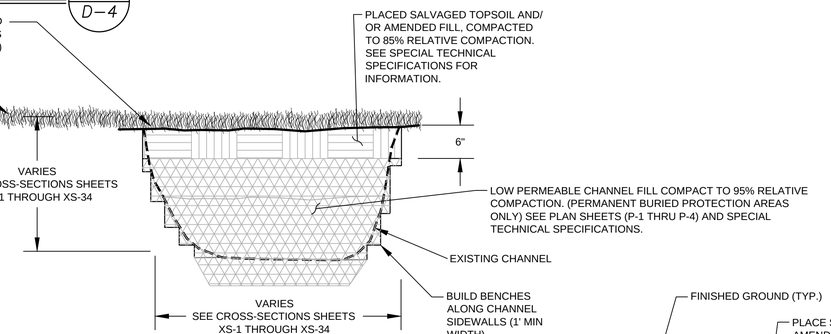
SECTION A-A VIEW

NTS



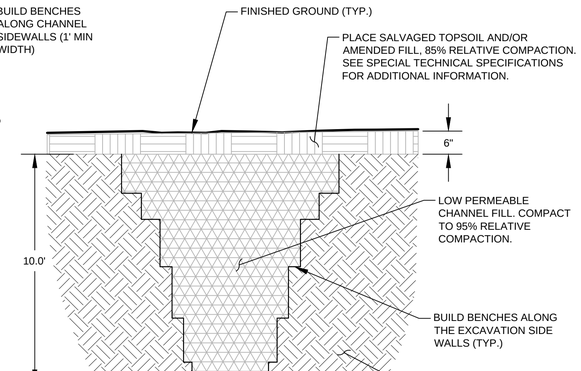
SECTION B-B VIEW

NTS



SECTION C-C VIEW
(PERMANENT BURIED PROTECTION)

NTS



BACKFILL EXISTING CHANNEL

2 / D-4

NTS

PERMANENT BURIED PROTECTION

3 / D-4

NTS

REVISIONS			
MARK	DATE	BY	

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No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
295 Hwy 50, Suite 1
P.O. Box 1533
Zephyr Cove, NV 89448
(775) 588-9069 Main

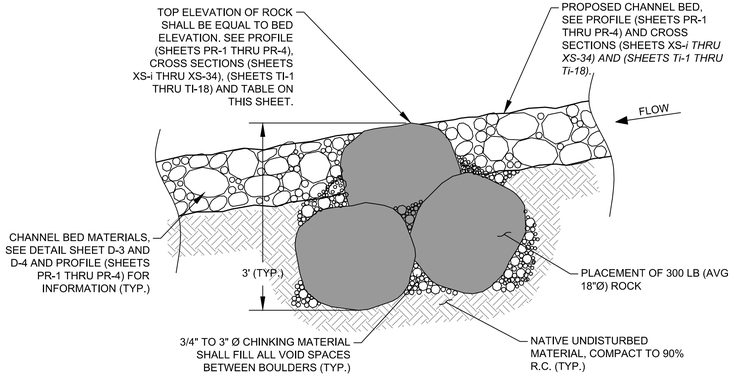
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

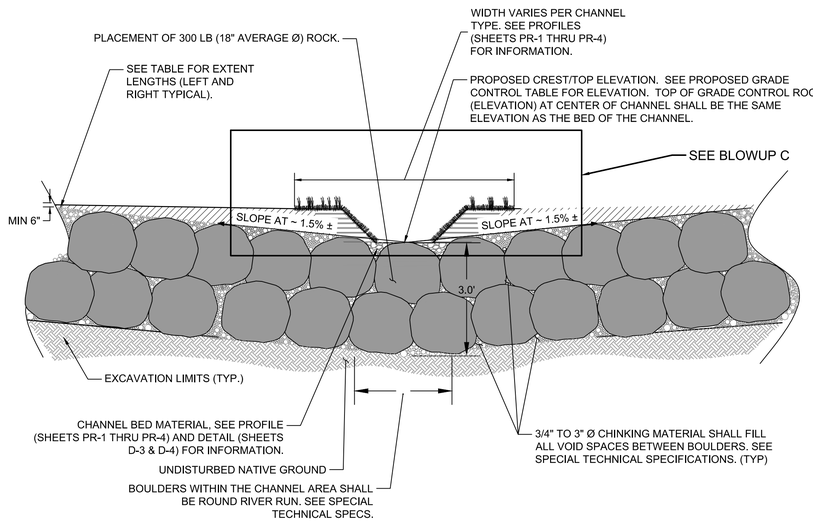
DATE
6/2012

Sheet D-4
SHEET 120 OF 134

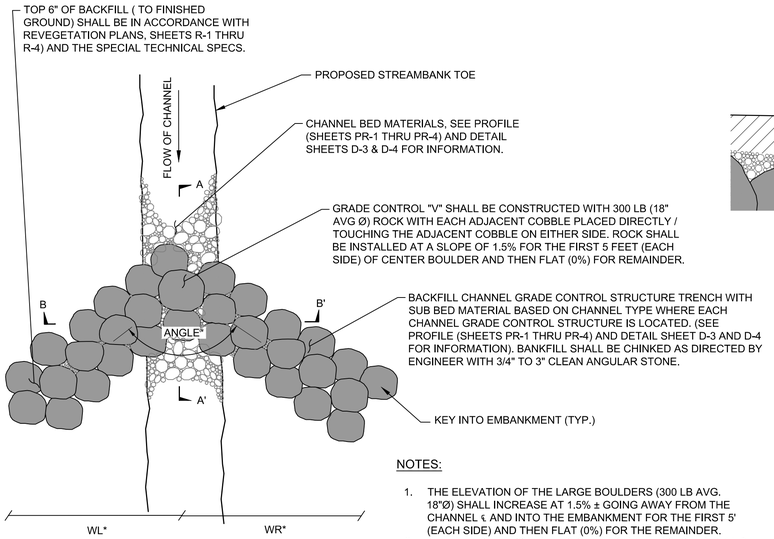
PROPOSED CENTERLINE ALIGNMENT STATIONING	BASELINE ALIGNMENT STATIONING AND OFFSET AT CENTERLINE	WL (FT)	WR (FT)	ANGLE	TOP OF ROCK ELEVATION
2+27.37	STA: 20+95.02, OFFSET: 154.59' LEFT	9.84	12.2	110°	6373.06
3+25.41	STA: 19+24.60, OFFSET: 167.90' LEFT	31.23	8.48	139°	6381.72
3+63.73	STA: 18+89.16, OFFSET: 153.83' LEFT	31.45	11.89	110°	6385.24
4+10.28	STA: 18+44.18, OFFSET: 146.72' LEFT	38.71	13.33	129°	6387.68
4+65.43	STA: 18+00.80, OFFSET: 112.79' LEFT	25.11	26.62	110°	6391.14
5+12.82	STA: 17+56.52, OFFSET: 108.88' LEFT	37.89	21.19	134°	6394.90
5+63.48	STA: 17+03.48, OFFSET: 99.41' LEFT	28.87	12.03	145°	6398.93
7+35.48	STA: 15+47.02, OFFSET: 87.12' LEFT	25.77	23.11	147°	6410.70
7+98.08	STA: 14+93.04, OFFSET: 58.34' LEFT	27.86	14	138°	6412.92
8+27.53	STA: 14+70.14, OFFSET: 40.44' LEFT	22.27	12	138°	6415.48
9+71.58	STA: 13+55.81, OFFSET: 17.27' RIGHT	24.18	25.08	154°	6422.48
11+09.04	STA: 12+25.05, OFFSET: 19.62' RIGHT	34.19	17.32	121°	6431.05
12+49.43	STA: 11+02.65, OFFSET: 51.83' RIGHT	28.25	21.46	152°	6439.73
14+15.17	STA: 9+53.35, OFFSET: 49.20' RIGHT	17.17	26.06	142°	6447.41
16+50.00	STA: 7+54.16, OFFSET: 24.73' RIGHT	22.12	20.34	155°	6460.90
17+06.58	STA: 7+00.11, OFFSET: 125.02' RIGHT	25.59	30.55	138°	6464.96
18+71.96	STA: 5+52.15, OFFSET: 118.99' RIGHT	23.31	21.81	166°	6475.06
20+72.70	STA: 3+15.07, OFFSET: 45.22' RIGHT	22.26	18.84	138°	6484.50



SECTION A-A'



SECTION B-B'



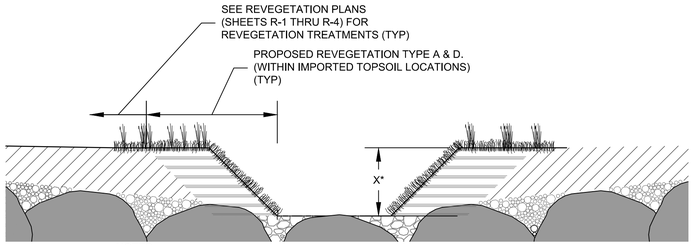
PLAN VIEW

NOTES:

1. THE ELEVATION OF THE LARGE BOULDERS (300 LB AVG. 18"Ø) SHALL INCREASE AT 1.5% ± GOING AWAY FROM THE CHANNEL ℄ AND INTO THE EMBANKMENT FOR THE FIRST 5' (EACH SIDE) AND THEN FLAT (0%) FOR THE REMAINDER.
2. SEE REVEGETATION PLANS (SHEETS R-1 THROUGH R-4) AND SPECIAL TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION ON REVEGETATION REQUIREMENTS.
3. SEE TABLE ABOVE FOR VALUES OF DIMENSIONS NOTED WITH AN ASTERISK.

CHANNEL GRADE CONTROL STRUCTURE — 1 / D-5

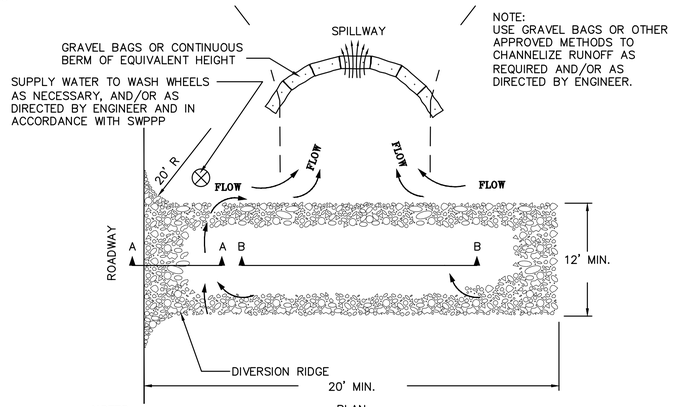
NTS



NOTES:

X* - DEPTH VARIES, SEE CHANNEL BED TREATMENT TYPE ON PROFILES (SHEETS PR-1 THRU PR-4) AND DETAILS (SHEETS D-3 & D-4).

BLOWUP C

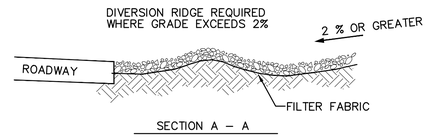


PLAN

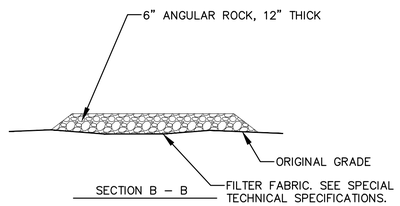
NOTE:
USE GRAVEL BAGS OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF AS REQUIRED AND/OR AS DIRECTED BY ENGINEER.

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. AS DIRECTED BY ENGINEER AND IN ACCORDANCE WITH SWPPP.
3. ALL EFFORTS ASSOCIATED WITH CONSTRUCTION ENTRANCE (THIS DETAIL) SHALL BE IN ACCORDANCE WITH THE SWPPP.



SECTION A – A



SECTION B – B

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT — 2 / D-5

NTS

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp.12/31/13 — CIVIL — No. 16993

SEAL OF WASHOE COUNTY — STATE OF NEVADA

Nevada Tahoe Conservation District

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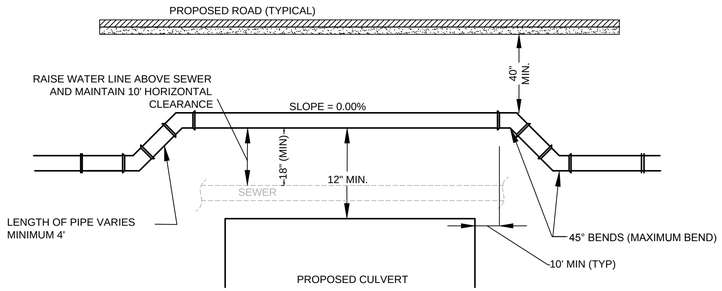
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

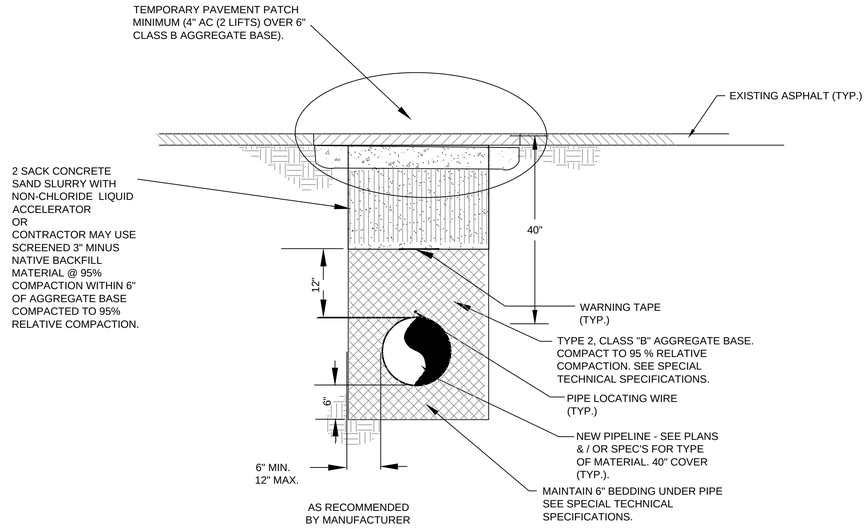
Sheet D-5
SHEET 121 OF 134



1. PIPE TO BE DUCTILE IRON WITH FIELD-LOK GASKETS, MEGA-LUG, OR RESTRAINING GLANDS TO RESTRAIN ALL JOINTS.
2. ALL FITTINGS TO BE DUCTILE IRON.
3. DUCTILE IRON PIPE TO HAVE POLYETHYLENE ENCASEMENT, BLACK.
4. CONTRACTOR TO NOTIFY IVGID PRIOR TO WORKING ON WATERMAINS.
5. BACKFILL AS SHOWN ON TRENCH DETAIL (2 D-6) (3 D-6)
6. INSTALL VERTICAL AND HORIZONTAL THRUST BLOCKS PER DETAIL (1 D-7) (2 D-7)
7. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION.
8. CONTRACTOR SHALL COORDINATE UTILITY WORK WITH IVGID AT LEAST 48 HOURS IN ADVANCE OF ANY WORK
9. SEPARATION AND REQUIRED ENCASEMENTS AS STATED IN THE NEVADA ADMINISTRATIVE CODE SECTION 445A.67145, *.6715, *.67155, *.6716, 67165, *.6717, *.67175, *.6718.

I.V.G.I.D. UTILITY RELOCATION - POTABLE WATER

NTS — 1 / D–6

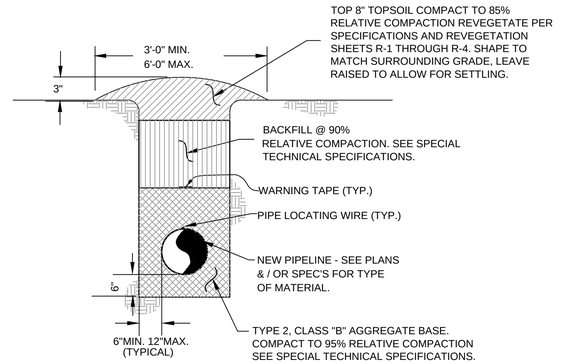


NOTES
1. PERMANENT PAVEMENT PATCH WILL BE AS SHOWN IN DETAIL (4 D-6)
2. ALL ROAD SHOULDERS TO BE COMPACTED TO 95% RELATIVE COMPACTION (NO REVEGETATION REQUIRED)
3. WATERMAIN DEPTH MINIMUM OF 40" COVER TO TOP OF PIPE TYPICAL. AREAS WHERE MAIN IS SHALLOW TO MISS CULVERTS OR SEWER LINES THE WATERMAIN SHALL BE CONCRETE ENCASED 10 FEET BEYOND BOTH SIDES OF THE INTERSECTION WITH OTHER UTILITY.
4. ALL PROTRUDING ROCKS WILL BE REMOVED PRIOR TO PIPE INSTALLATION.
5. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION.

I.V.G.I.D. UTILITY TRENCH - PAVED AREAS

NTS — 2 / D–6

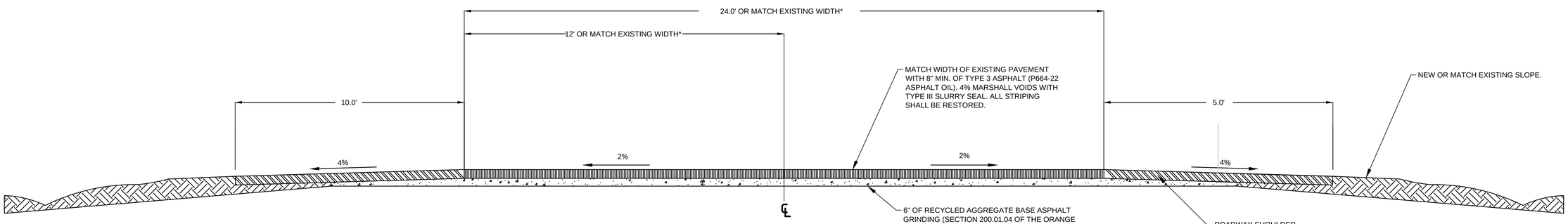
I.G.V.I.D. - INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT



NOTES:
1. COVER TO BE MINIMUM OF 40 INCHES FROM TOP OF PIPE TO FINISHED SURFACE GRADE.
2. BOTTOM OF TRENCH SHALL BE LEVEL AND SMOOTH.
3. EXCAVATE AS NEEDED TO MAINTAIN 6" MINIMUM BEDDING UNDER PIPE.
4. ALL BEDDING MATERIAL SHALL BE COMPACTED PRIOR TO SHAPING TRENCH & INSTALLATION OF PIPE.
5. ALL PROTRUDING ROCKS TO BE REMOVED.
6. SEE SPECIAL TECHNICAL SPECIFICATIONS FOR MORE INFORMATION.

I.V.G.I.D. UTILITY TRENCH - NON-PAVED AREAS

NTS — 3 / D–6



NOTES:
1. ALL WIDTHS ARE IN FEET
2. ADT REPRESENTS THE DESIGN VOLUME OF A TWO LANE FACILITY.
3. ALL A.C. SURFACES SHALL BE SEALED IN ACCORDANCE WITH WASHOE CO. STANDARDS.
4. EROSION PROTECTION REQUIRED FOR DRAINAGE DITCHES.
5. DESIGN OF IMPROVEMENTS TO BE DONE IN ACCORDANCE WITH ARTICLES 420 & 436 OF WASHOE COUNTY DEVELOPMENT STANDARDS AND DESIGN GUIDELINES.
6. ALL CONSTRUCTION IS TO BE DONE TO CURRENT WASHOE CO. STANDARDS SPECIFICATIONS.
7. SEAL ALL PAVEMENT WITH TYPE III SLURRY SEAL AT COMPLETION OF PROJECT CONSTRUCTION.

NORTH SIDE OF NORTHWOOD

ALL DIMENSIONS ARE APPROXIMATE. SEE PLANS AND CROSS-SECTIONS (SHEETS PR-5 THRU PR-11) FOR INFORMATION.

SOUTH SIDE OF NORTHWOOD

TYPICAL ROAD SECTION

NTS — 4 / D–6

* WIDTH OF ROAD SHALL BE AS SHOWN ON PLAN SHEETS P-5 THRU P-11.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp. 12/31/13 — CIVIL — No. 16993

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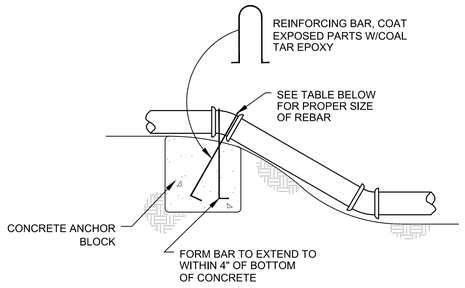
DETAIL SHEET

DATE 6/2012

Sheet D-6

SHEET 122 OF 134



ELEVATION

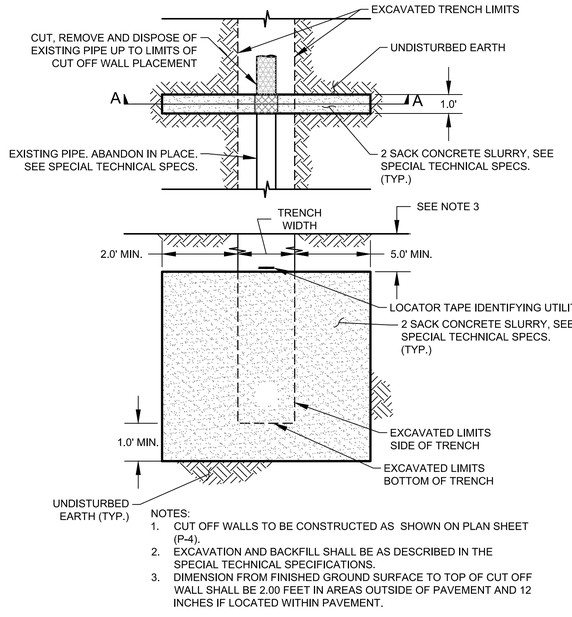
THRUST BLOCKS AND REINFORCEMENT BARS. NOT REQUIRED WHEN "FIELD-LOCK" GASKETS ARE USED ON DUCTILE IRON PIPE.

REQUIRED ANCHOR BLOCK - CUBIC FEET CONCRETE					
PIPE SIZE	4"	6"	8"	10"	12"
11-1/4° BEND	2	7	13	20	31
22-1/2° BEND	5	14	26	40	59
45° BEND	10	28	52	80	117
BAR SIZE (MINIMUM)	#4	#4	#5	#5	#8

I.V.G.I.D. TYPICAL VERTICAL THRUST BLOCK

NTS

1 / D–7

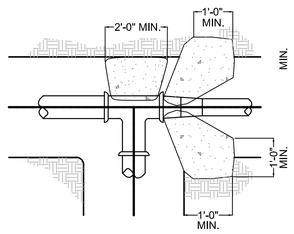


NOTES:
1. CUT OFF WALLS TO BE CONSTRUCTED AS SHOWN ON PLAN SHEET (P-4).
2. EXCAVATION AND BACKFILL SHALL BE AS DESCRIBED IN THE SPECIAL TECHNICAL SPECIFICATIONS.
3. DIMENSION FROM FINISHED GROUND SURFACE TO TOP OF CUT OFF WALL SHALL BE 2.00 FEET IN AREAS OUTSIDE OF PAVEMENT AND 12 INCHES IF LOCATED WITHIN PAVEMENT.

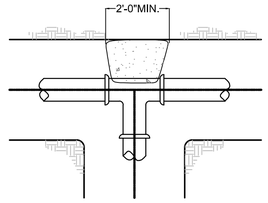
CONCRETE CUT OFF WALL

NTS

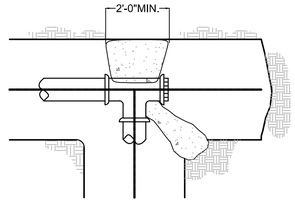
2 / D–7



REDUCERS - PLAN



TEES - PLAN



TEE W/PLUG

NOTE:

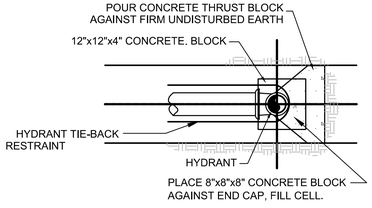
ALL FITTINGS TO BE WRAPPED IN PLASTIC. CONCRETE SHALL NOT TOUCH PIPE OR BOLTS.

BEARING AREA OF THRUST BLOCKS-SQ.FT.						
TYPE OF FITTING	90° BEND	45° BEND	11-1/4° OR 22-1/2° BEND	TEE OR DEAD END	TEE WITH PLUG	CROSS W/PLUG
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

I.V.G.I.D. TYPICAL HORIZONTAL THRUST BLOCK

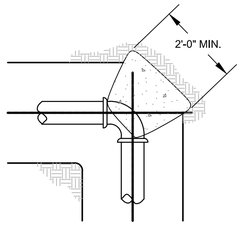
NTS

3 / D–7

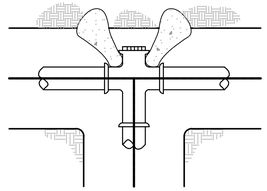


FIRE HYDRANT

END CAP DETAIL - PLAN



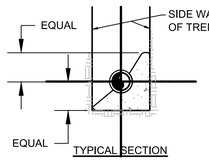
ALL BENDS - PLAN

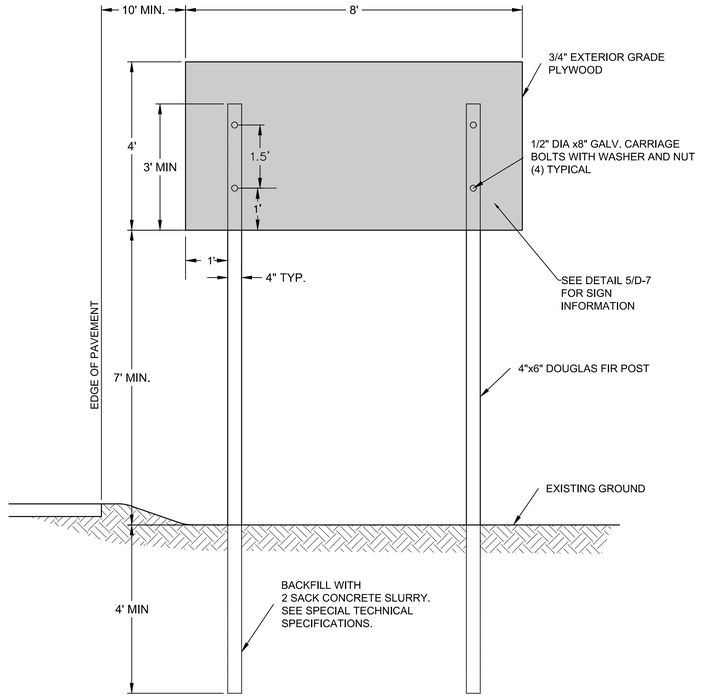


CROSS W/PLUG

NOTE:

THIS DETAIL APPLIES FOR ALL FITTINGS.

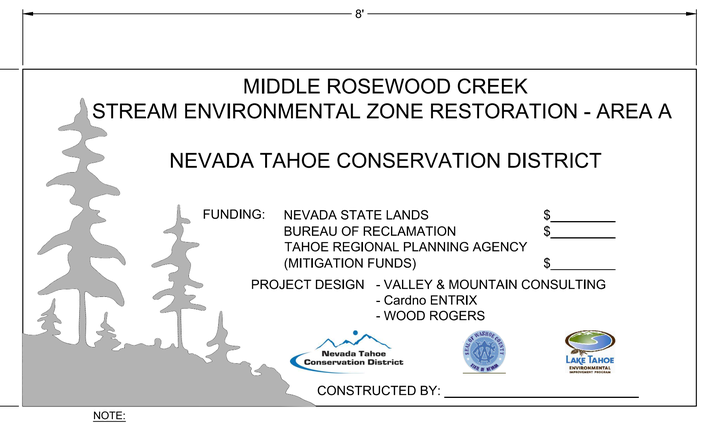




SIGN INSTALLATION DETAIL

NTS

4 / D–7



NOTE:

1. CONTRACTOR SHALL CONTACT THE NEVADA TAHOE CONSTRUCTION DISTRICT FOR THE FUNDING AMOUNTS, GRAPHIC ART, LETTER FONT, SIZE, AND SPACING MAY BE ADJUSTED BY THE CONTRACTOR TO CREATE THE HIGHEST QUALITY CRAFTSMANSHIP DISPLAYED BY THE FINISHED PRODUCT.
2. LOCATION OF SIGN SHALL BE AS DIRECTED BY ENGINEER AT PRE-CONSTRUCTION MEETING.

SIGN DETAIL

NTS

5 / D–7

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA — STEPHEN H. PECK — Exp.12/31/13 — CIVIL — No. 16993

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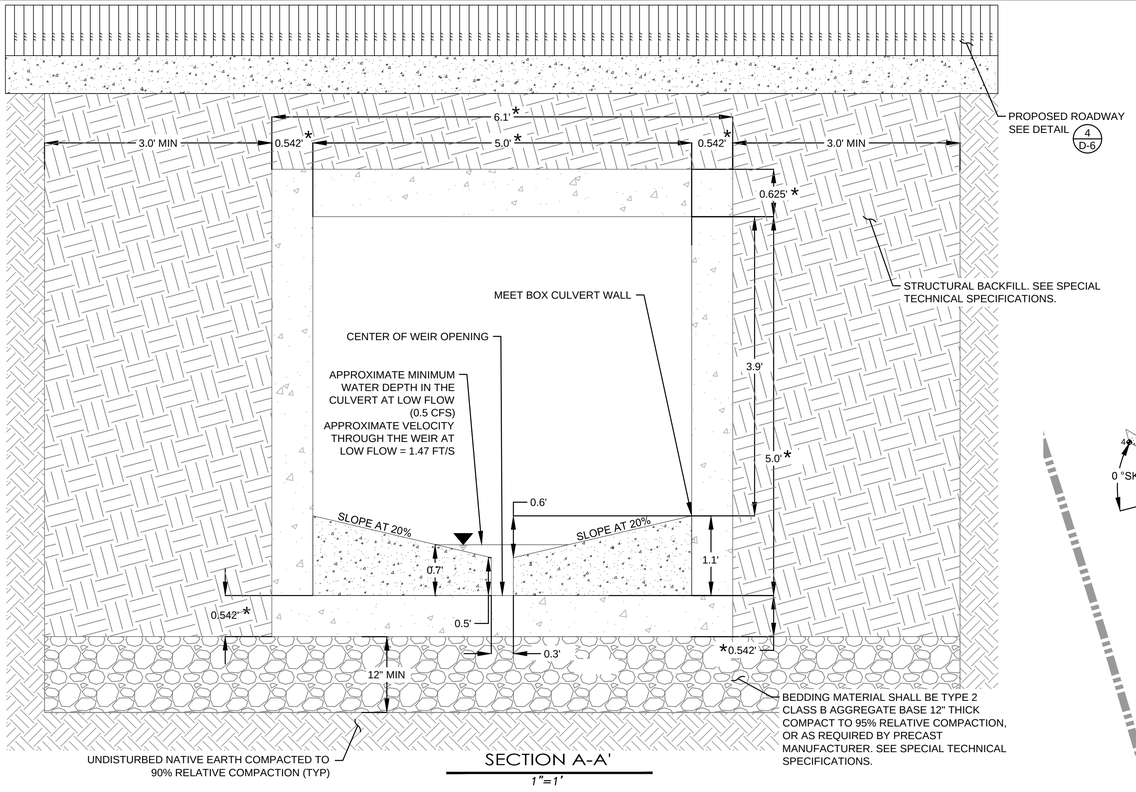
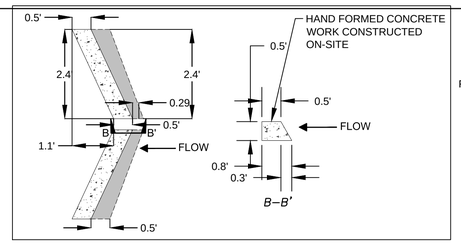
Sheet D-7

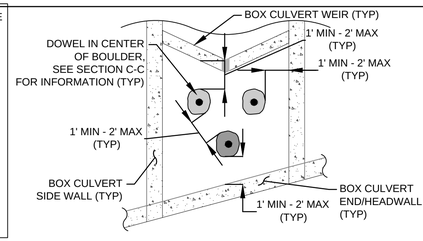


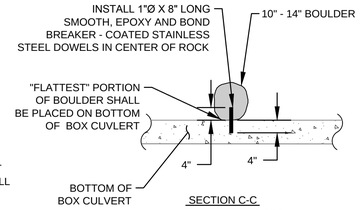
SECTION A-A'
1"=1'

* DIMENSIONS FOR BOX CULVERT SHALL BE IN ACCORDANCE WITH DETAIL SHEETS D-9 AND D-10.



BLOW UP SECTION B-B'
1"=2'

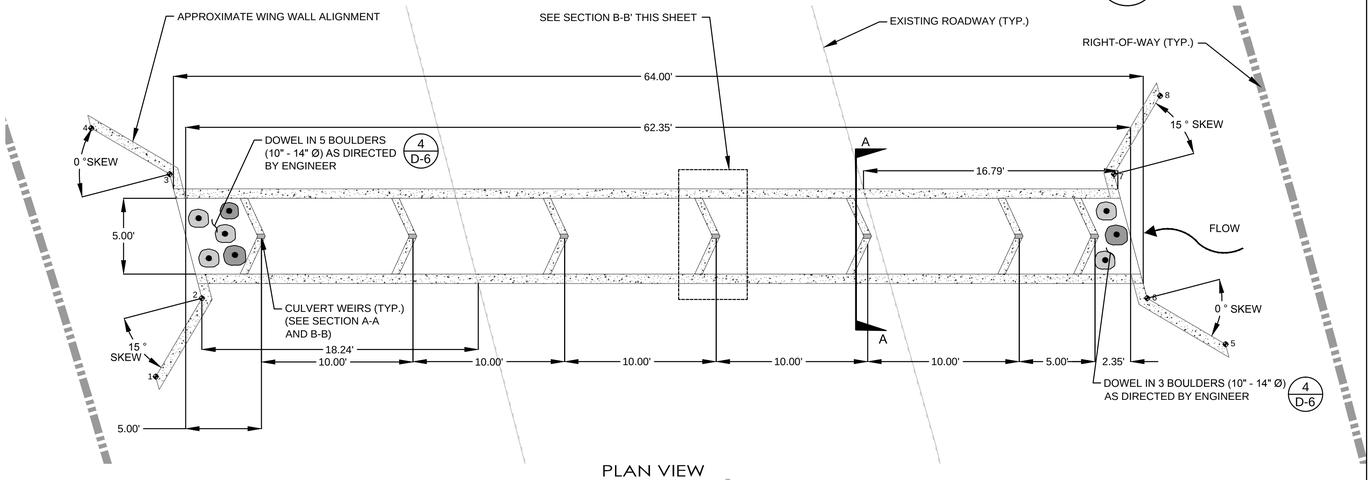




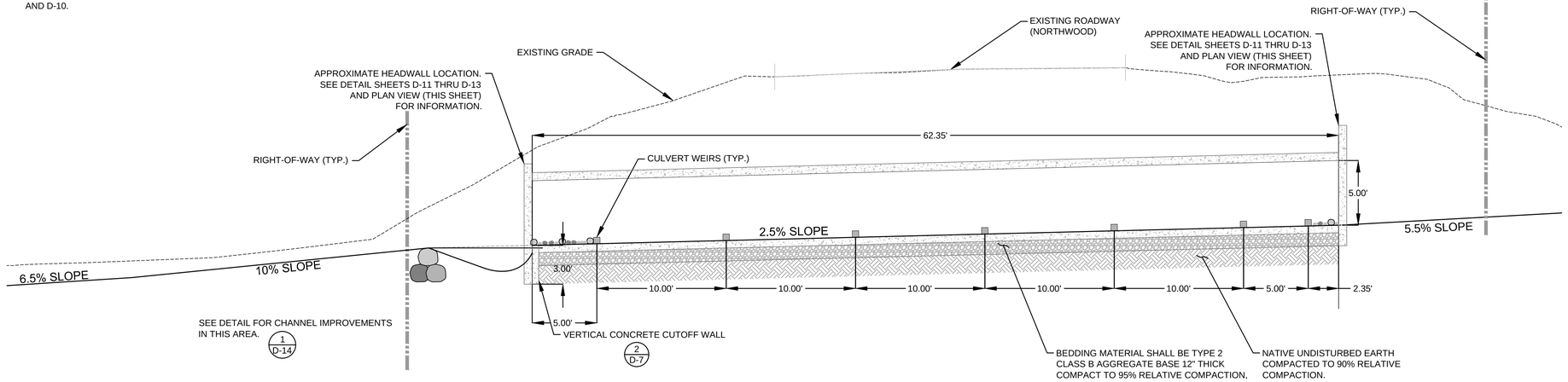
SECTION C-C

NOTE:
CONTRACTOR SHALL DRILL A CLEAN AND NEAT HOLE INTO ROCK AND CONCRETE BOX CULVERT AFTER CULVERT IS INSTALLED IN PLACE.

DOWEL IN BOULDERS
NTS
2 D–8



PLAN VIEW
1"=5'



PROFILE VIEW
1"=5'

BOX CULVERT 5' X 5' @ 2.5%
NTS
1 D–8

Point Table				
Point #	Northing	Easting	Elevation	Description
1	14768910.98	2238646.97	6482.25	POINT 1
2	14768917.37	2238643.72	6484.08	POINT 2
3	14768917.65	2238638.55	6484.08	POINT 3
4	14768913.77	2238634.66	6481.67	POINT 4
5	14768980.50	2238667.05	6483.22	POINT 5
6	14768976.61	2238663.16	6485.64	POINT 6
7	14768976.90	2238658.00	6485.64	POINT 7
8	14768983.28	2238654.74	6483.81	POINT 8

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

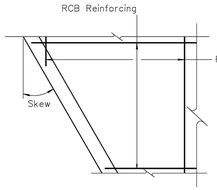
Cardno ENTRIX
295 Hwy 50, Suite 1
P.O. Box 1533
Zephyr Cove, NV 89448
(775) 588-9069 Main

Valley & Mountain Consulting

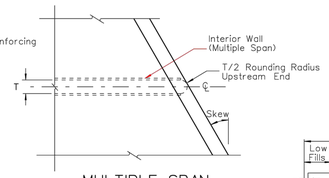
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

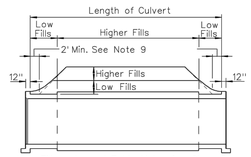
Sheet D-8
SHEET 124 OF 134



SINGLE SPAN
PLAN

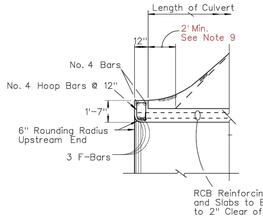


MULTIPLE SPAN
PLAN

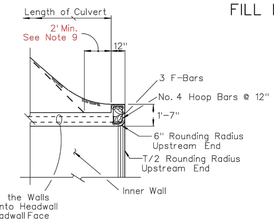


Low Fills = Lowest Table Value for, Given Span
Higher Fills = Slab Increase as Shown in Table

FILL HEIGHT TRANSITIONS
ELEVATION

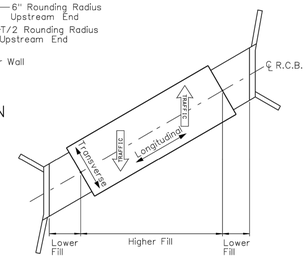


SINGLE SPAN

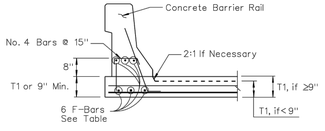


MULTIPLE SPAN

ELEVATION



SKEWED
PLAN



PARAPET DETAILS

COPING REINFORCING INCLUDED IN THE HEADWALL QUANTITIES

SKEWED PARAPETS									
SKEW ANGLE		SPAN	5	6	7	8	10	12	14
0° – 15°	F-BARS	BAR No.	4	5	5	6	7	8	8
16° – 30°	F-BARS	BAR No.	5	6	6	7	8	8	8
31° – 45°	F-BARS	BAR No.	6	6	6	7	8	8	8
0° – 45°	No. 4 HOOPS		12" CTRS.						

GENERAL NOTES:

1. DESIGN SPECIFICATIONS : AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977, EXCEPT AS NOTED BELOW.
2. CONSTRUCTION SPECIFICATIONS: STATE OF NEVADA DEPARTMENT OF HIGHWAYS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," CURRENT EDITION, AND SPECIAL PROVISIONS THERETO.
3. LOADING: LIVE LOAD: STANDARD HS20-44 OR ALTERNATE FHWA MILITARY LOADING, IMPACT FOR TOP SLAB IS 30% UP TO 3' COVER, NO IMPACT ABOVE 3' COVER. NO IMPACT FOR INVERT. NO SURCHARGE FOR WALLS.

   EARTH LOAD: EQUIVALENT FLUID PRESSURE FOR TWO CONDITIONS,
   a. 140 LBS./CU. FT. VERTICAL, 42 LBS./CU. FT. HORIZONTAL.
   b. 140 LBS./CU. FT. VERTICAL, 140 LBS./CU. FT. HORIZONTAL.
   LOAD FACTORS: 1.5D + 1.5E + 2.5 (L+I).
4. CONCRETE: THE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,250 PSI. MAXIMUM ALLOWABLE SHEAR, Vc = 3.5 f'c, PSI. TAKEN AT A DISTANCE "d" FROM THE SUPPORTING MEMBER.
5. REINFORCING STEEL: ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60. MAIN REINFORCEMENT IS TO BE PLACED IN THE TRANSVERSE DIRECTION. STAGGER SPLICES NOT SHOWN. HOOKS MAY BE ROTATED OR TILTED, AS NECESSARY, FOR CLEARANCE. REINFORCEMENT SHALL HAVE A 2½" CLEARANCE ON BOTTOM OF BOTTOM SLAB AND 2" CLEARANCE ON REMAINDER OF STRUCTURE AND ITS APPURTENANCES UNLESS OTHERWISE NOTED ON THE PLANS.
6. FOUNDATION PRESSURE: THE RCB CULVERTS ARE DESIGNED TO THE FOLLOWING SOIL BEARING PRESSURES:

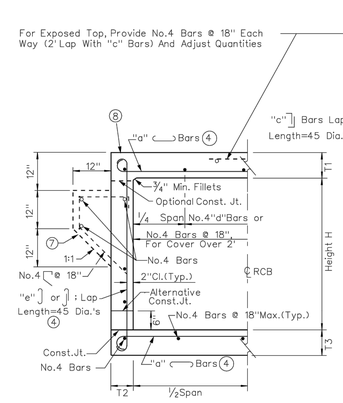
COVER HEIGHTS	10 FT.	20 FT.
RCB HEIGHT	TON/SQ.FT.	
6 FT.	1.0	1.6
8 FT.	1.1	1.7
10 FT.	1.2	1.8
12 FT.	1.3	1.9
14 FT.	1.4	2.0

7. SPECIAL DESIGN: CULVERTS WITH CONDITIONS, LOADING, OR SIZES DISSIMILAR TO THOSE GIVEN ON THESE RCB CULVERT SHEETS MAY REQUIRE A SPECIAL DESIGN.
8. DESIGNATION: BOX CULVERTS ARE SHOWN ON PLANS AS SPAN TIMES HEIGHT TIMES LENGTH (10' x 8' x 196' RCB).
9. ADDITIONAL LENGTH: LENGTH OF CULVERT SHALL BE INCREASED AS FOLLOWS: ADD 2' TO EACH END WHEN COVER AT SHOULDER IS 0' TO 5'. ADD AN ADDITIONAL 1' TO EACH END FOR EACH SUCCEEDING 5' OF COVER OR PORTION THEREOF.
10. HEADWALLS: ALL RCB CULVERTS SHALL HAVE TYPE IHEADWALLS UNLESS OTHERWISE NOTED ON THE PLANS.
11. QUANTITIES: QUANTITIES DO NOT INCLUDE "d" BARS, NOR SPLICES IN BARS, NOR TEMPERATURE BARS FOR EXPOSED TOP SLAB, NOR CONCRETE OR REINFORCEMENT FOR PARAPETS OR PAVING LEDGES.
12. THREE OR MORE CELLS: FOR CULVERTS WITH MORE THAN TWO CELLS, USE DIMENSIONS AND REINFORCEMENT FOR THE "DOUBLE BOX CULVERT" AND ADJUST THE QUANTITIES ACCORDINGLY.

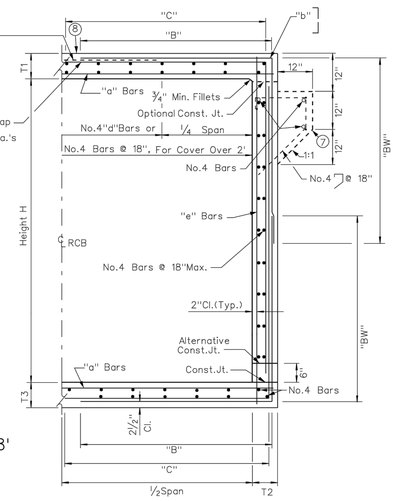
NEVADA DEPARTMENT OF TRANSPORTATION

R.C.B., CULVERTS,
GENERAL NOTES

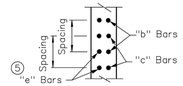
Signed Original On File	B-20.1.1 (502,505)	
CHIEF BRIDGE ENGINEER	ADOPTED 11/73	REVISION 1/09



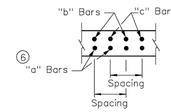
TYPICAL SECTION – SPANS 5' THRU 8'



TYPICAL SECTION – SPANS 10' THRU 14'



WALL SECTION
SPANS 10' THRU 14'



ROOF SECTION
SPANS 10' THRU 14'
Invert Similar

NOTES:

① FOR BOXES WITH SPAN OR HEIGHT LESS THAN ANY OF THOSE SHOWN IN TABLE, USE NEXT GREATER SIZE BOX CONCRETE DIMENSIONS AND REINFORCEMENT. ADJUST BAR LENGTHS AND RECALCULATE CONCRETE AND REINFORCEMENT QUANTITIES.

② FOR BOXES WITH SPAN OR HEIGHT OR COVER GREATER THAN THOSE SHOWN IN TABLES, A SPECIAL DESIGN IS REQUIRED.

③ QUANTITIES ARE APPROXIMATE AND FOR DESIGN PURPOSES ONLY.

④ IT IS PERMISSIBLE TO ELIMINATE THE 180° HOOKS ON EVERY OTHER BAR.

⑤ "e" BARS ARE AT HALF SPACING.

⑥ "a" BARS ARE AT HALF SPACING.

⑦ PROVIDE PAVING NOTCH WHEN TOP IS EXPOSED AND WHERE P.C.C. PAVEMENT OR APPROACH SLAB IS USED. ADJUST THE QUANTITIES.

⑧ WHEN TOP IS EXPOSED, THE TOP SLAB CONCRETE SHALL BE "EA", f'c=4500 PSI, OR "A", f'c=4000 PSI, AS DETERMINED BY THE ENGINEER. IF "EA" CONCRETE IS TO BE USED, THE TOP SLAB REINFORCING STEEL SHALL HAVE AN EPOXY COATING.

SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

SINGLE
RCB CULVERTS

Signed Original On File	B-20.1.2 (502,505)	
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 1/09

R.C.B., CULVERT GENERAL NOTES — 1 / D–9

NTS

SINGLE REINFORCED CONCRETE BOX CULVERT — 2 / D–9

NTS

NOTE:

DETAILS TAKEN FROM THE NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION - 2010 EDITION". CONTRACTOR SHALL USE MOST CURRENT NDOT EDITION OF DETAILS FOR CONSTRUCTION AT TIME OF CONSTRUCTION.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
295 Hwy 50, Suite 1
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Zephyr Cove, NV 89448
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Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

Sheet D-9
SHEET 125 OF 134

SPAN FT.	5						6							7								8									
HEIGHT FT.	3		4		5		3		4		5		6	3		4		5		6	7	3		4		5		6		7	8	
MAXIMUM EARTH COVER FT.	10	20	10	20	10	20	10	20	10	20	10	20	10	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20
CONC. ROOF T1 IN.	7½	7½	7½	7½	7½	7½	8	8	8	8	8	8	8	8	9	8	9	8	9	8½	9	8½	9	8½	9	8½	9	8½	10	8½	10	8½	10
CONC. WALLS T2 IN.	6	6	6	7	6½	7½	6	6	6	7	6½	7½	7	8½	6	6	6	7	6½	7½	7	8½	8	9½	6	7	6	7	6½	7½	7	8½	8	9½	8½	10½
CONC. INVERT T3 IN.	6½	7	6½	7	6½	7	7	8	7	8	7	8	7	8	8	9	8	9	8	9	8	9	8	9	8	9½	8	10	8	10	8	10	8	10	8	10
REINF. SPACING IN.	8½	5½	8½	5½	8½	5½	7½	5	7½	5	7½	5	7½	4½	6½	5	6½	4½	6½	5½	6½	5½	6½	5½	6	5	6	5	6	5	6	4½	6	5	6	4½
REINF. "a" BAR NO.	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
REINF. "e" BAR NO.	4	4	5	5	6	6	4	4	5	5	6	6	7	6	4	4	5	5	6	6	6	7	7	7	5	5	5	5	6	6	6	6	7	7	7	7	7
QUAN. CONCRETE CF/LF	10.0	10.2	11.0	12.0	12.5	13.7	11.7	12.3	12.7	14.2	14.2	15.9	15.9	18.3	13.7	14.9	14.6	16.8	16.1	18.5	18.1	21.0	20.7	23.8	15.4	18.0	16.4	19.0	17.9	21.1	19.5	24.1	22.1	26.9	24.1	30.1
QUAN. REINFORCEMENT LBS/LF	58	68	67	81	82	105	70	81	82	96	97	120	124	148	94	94	105	118	121	147	130	177	160	192	115	139	123	151	131	171	137	198	160	215	192	252

SPAN FT.	10																12																			
HEIGHT FT.	3		4		5		6		7		8		9		10		4		5		6		7		8		9		10		11		12	
MAXIMUM EARTH COVER FT.	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20
CONC. ROOF T1 IN.	8	10½	8	10½	8	10½	8	10½	8	10½	8	10½	8	10½	8	10½	8½	11	8½	12	8½	12	8½	12	8½	12	8½	12	8½	12	8½	12	9½	12	9½	12
CONC. WALLS T2 IN.	8	8	8	8	8	8	8	9	8	9	8	10	8½	11½	9½	12½	8	10	8	10	8	10	8½	10½	8½	10½	8½	11½	9	12½	10½	13½	11½	15
CONC. INVERT T3 IN.	8	11	8	11	8	11	8	11	8	11	8	11	8	11	8½	11	8½	12½	8½	12½	8½	12½	9	12½	9	12½	9	12½	9	12½	9½	13	10	13
REINFORCEMENT SPACING IN.	13	12	13	12	13	12	12	12	11	11	10	11	11	10	11	10	9	10	9	10	9	10	9	10	9	10	8	10	8	10	10	9	9	8
REINFORCEMENT "a" ⑥ BAR NO.	6	7	6	7	6	7	6	7	6	7	6	7	6	6	6	6	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	6	6	6
REINFORCEMENT BAR NO.	6	7	5	7	5	7	6	7	5	7	6	7	6	6	7	7	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	6	7	6	7	6	7
REINFORCEMENT "b" DIMENSION "B" FT. – IN.	2–10	2–11	2–10	2–11	2–11	2–11	2–11	3	2–11	3–9	2–11	3–9	2–11	3–9	2–11	3–9	3–1	3–2	3–1	3–2	3–1	3–2	3–9	3–9	3–9	3–9	3–7	3–9	3–7	4–4	3–7	4–4	4–4	4–4
REINFORCEMENT DIMENSION "BW" FT. – IN.	2–10	3	2–10	3	4–10	5	4–10	5	4–10	5	4–10	5	4–10	5	4–10	5	4–7	4–7	4	4	4	4	6	5–10	6–2	6–7	6–2	6–7	4–11	4–11	4–11	4–11	4–11	4–11	4–4	4–4
REINFORCEMENT "c" BAR NO.	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	7	7	7	7
REINFORCEMENT DIMENSION "C" FT. – IN.	3–4	3–4	3–4	3–4	3–4	3–4	7–4	4–8	7–7	4–8	8–2	4–8	7–7	4–8	7–7	4–8	4–4	4–4	4–4	4–4	4–4	3–7	8–1	5–7	8–1	5–7	8–1	5–7	8–1	5–7	8–1	5–7	8–1	5–7	8–1	5–7
REINFORCEMENT "e" ⑤ BAR NO.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
QUAN. CONCRETE CF/LF	19.1	24.3	20.4	25.6	21.6	26.8	23.0	29.5	24.3	31.0	25.6	34.1	27.8	37.7	32.1	42.3	24.2	34.6	25.5	36.2	26.8	37.7	29.3	40.1	30.3	41.9	32.2	45.4	34.5	49.8	40.7	54.2	45.4	59.9		
QUAN. REINFORCEMENT LBS/LF	161	230	169	237	191	267	233	285	260	325	300	339	314	327	360	373	271	331	278	339	295	362	353	409	365	420	402	413	415	424	440	471	468	534		

SPAN FT.	14															
HEIGHT FT.	7		8		9		10		11		12		13		14	
MAXIMUM EARTH COVER FT.	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20
CONC. ROOF T1 IN.	9½	14	9½	14	9½	14	9½	14	10	14	10	14	10½	14	11	14
CONC. WALLS T2 IN.	9½	11	9½	11½	9½	11½	10	12½	10½	14	11½	15	12½	16½	13½	17½
CONC. INVERT T3 IN.	10	14½	10	14½	10	14½	10	14½	10½	14½	10½	15	11	15	11½	15
REINFORCEMENT SPACING IN.	10	9	10	9	10	8	10	8	10	8	8	10	10	10	10	9
REINFORCEMENT "a" ⑥ BAR NO.	7	7	7	7	7	7	7	7	7	7	6	7	6	7	6	7
REINFORCEMENT BAR NO.	6	7	7	7	7	7	7	7	7	7	6	8	7	8	7	8
REINFORCEMENT "b" DIMENSION "B" FT.– IN.	2–9	4–2	3–4	4–4	3–4	4–6	3–4	4–6	3–6	4–6	3–6	4–6	3–6	4–6	4–9	6
REINFORCEMENT DIMENSION "BW" FT.– IN.	6–5	7	7	8–4	7	8–4	6	6	6	6	6	6	5	6	4–6	6
REINFORCEMENT "c" BAR NO.	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8
REINFORCEMENT DIMENSION "C" FT.– IN.	4	4–2	6–9	6–9	5–10	5–10	6	6–4	8–11	6–4	8–11	6–4	8–11	6–4	8–11	6–4
REINFORCEMENT "e" ⑤ BAR NO.	4	4	4	4	4	4	4	4	4	4	4	5	6	6	6	6
QUAN. CONCRETE CF/LF	36.2	51.0	37.8	53.1	39.5	54.9	41.9	58.7	45.9	64.1	49.9	69.5	55.6	75.8	61.6	81.3
QUAN. REINFORCEMENT LBS/LF	374	471	449	522	446	587	449	580	492	596	537	605	564	634	604	759

"d" BARS, FOR EARTH COVERS OF 2' AND LESS TO BE PLACED IN TOP SLAB ONLY							
SPAN	5'	6'	7'	8'	10'	12'	14'
NUMBER of BARS	6	7	8	9	10	12	16

SHEET 2 OF 2

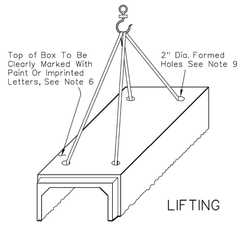
NEVADA DEPARTMENT OF TRANSPORTATION

SINGLE
RCB CULVERTS

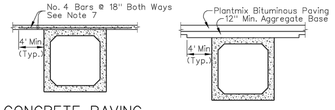
Signed Original On File	B-20.1.2.1 (502,505)
CHIEF BRIDGE ENGINEER	ADOPTED 11/70 REVISION 1/09

SINGLE REINFORCED CONCRETE BOX CULVERT — 1 / D–10

NTS

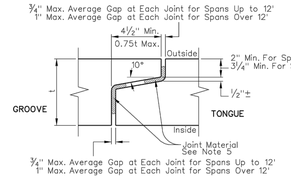


LIFTING

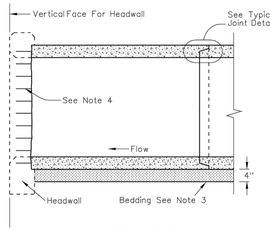


CONCRETE PAVING BITUMINOUS PAVING

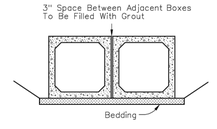
MINIMUM COVER CONDITIONS



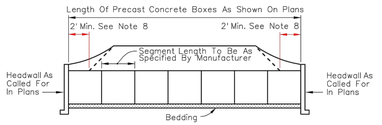
TYPICAL JOINT



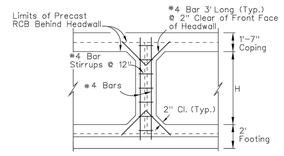
CULVERT END



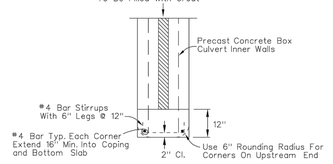
MULTIPLE CULVERT INSTALLATION



TYPICAL CULVERT INSTALLATION



MULTIPLE SPAN INNER WALL END ELEVATION



MULTIPLE CULVERT INNER WALL END PLAN

Designer To Investigate The Availability Of The Required Box Size.

NEVADA DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE
BOX CULVERT

Signed Original On File	B-20.1.8 (502)
CHIEF BRIDGE ENGINEER	ADOPTED 4/85 REVISION 9/09

NOTES:

1. CONCRETE SHALL BE AS SPECIFIED IN AASHTO M259 OR M273 (ASTM C1433), AS MODIFIED IN SUBSECTION 502.03.24.
2. REINFORCING STEEL SHALL BE AASHTO M31 (ASTM A615) GRADE 60, WELDED WIRE FABRIC SHALL BE AASHTO M55 (ASTM A185) (SMOOTH WIRE), OR AASHTO M22 (ASTM A497) (DEFORMED WIRE). REINFORCING STEEL IN THE TOP SLAB SHALL HAVE AN EPOXY COATING CONFORMING TO AASHTO M284 (ASTM D3963) WHEN THERE IS 6" OR LESS OF COVER ON THE RCB (CLARK COUNTY EXCLUDED).
3. BEDDING MATERIAL SHALL BE GRANULAR BACKFILL OR TYPE 2 CLASS B AGGREGATE MEETING THE RESISTIVITY REQUIREMENTS FOR GRANULAR BACKFILL. BEDDING MATERIAL WILL BE PAID FOR AS GRANULAR BACKFILL.
4. HEADWALL DETAILS SHALL BE AS SHOWN IN THE STANDARD PLANS. EXPOSED REINFORCEMENTS TO TIE CAST-IN-PLACE HEADWALL TO PRECAST BOX SHALL CONSIST OF EITHER NO. 4 BARS AT 12" SPACINGS OR EXPOSURE OF THE PRECAST BOX WELDED WIRE FABRIC. THE NO. 4 BARS SHALL BE CAST A MINIMUM OF 18" INTO THE PRECAST BOX SEGMENT. BOTH THE NO. 4 BAR OR WELDED WIRE FABRIC SHALL EXTEND INTO HEADWALL TO 2" CLEAR OF THE HEADWALL FACE.
5. JOINT MATERIAL SHALL BE A PREFORMED JOINT MATERIAL MEETING AASHTO M198 TYPE B. THE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. A DOUBLE APPLICATION OF JOINT MATERIAL SHALL BE USED. APPLY ONE APPLICATION TO THE TONGUE AND THE OTHER TO THE GROOVE. THE MINIMUM SIZE OF JOINT MATERIAL SHALL BE 1"/4". ANY JOINT MATERIAL EXTRUDING FROM THE INTERIOR OF THE JOINT SHALL BE REMOVED FLUSH WITH THE BOX WALL.
6. IN ADDITION TO THE MARKINGS REQUIRED BY THE AASHTO AND ASTM SPECIFICATIONS, MARK EACH BOX SECTION WITH THE APPROPRIATE NDOT CONTRACT NUMBER.
7. REINFORCING STEEL SHALL EXTEND FULL WIDTH OF CONCRETE PAVEMENT AND SHALL HAVE A MINIMUM CLEARANCE OF 3" ON THE BOTTOM. IN AREAS OF THE STATE WHERE ROAD SALTS ARE USED, THE REINFORCING SHALL BE EPOXY COATED. REINFORCING IS TO BE PLACED PARALLEL TO THE CENTERLINE OF ROAD FOR LONGITUDINAL REINFORCEMENT AND PARALLEL TO THE PRECAST BOX FOR TRANSVERSE REINFORCEMENT.
8. LENGTH OF CULVERT SHALL BE INCREASED AS FOLLOWS: ADD 2' TO EACH END WHEN COVER AT SHOULDER IS 0' TO 5', ADD AN ADDITIONAL 1' TO EACH END FOR EACH SUCCEEDING 5' OF COVER OR PORTION THEREOF.
9. FILL CYLINDRICAL LIFTING HOLES (LOCATED BY MANUFACTURER) WITH AN APPROVED EPOXY NON-SHRINK GROUT. HOLE WITH AN APPROVED CONICAL SHAPE FOR THE BOTTOM 3" MAY BE FILLED WITH A CONCRETE GROUT COMPOSED OF ONE PART BY VOLUME OF CEMENT TO TWO PARTS BY VOLUME OF SAND WITH ONLY ENOUGH WATER TO PERMIT PLACING AND TAMPING. AN APPROVED CUSTOM PLUG MAY BE USED. AN OPTIONAL METHOD OF LIFTING MAY BE USED WITH APPROVAL.

OR PRECAST CONCRETE BOX CULVERT — 2 / D–10

NTS

NOTE:

DETAILS TAKEN FROM THE NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION - 2010 EDITION". CONTRACTOR SHALL USE MOST CURRENT NDOT EDITION OF DETAILS FOR CONSTRUCTION AT TIME OF CONSTRUCTION.

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

Cardno ENTRIX
295 Hwy 50, Suite 1
P.O. Box 1533
Zephyr Cove, NV 89448
(775) 588-9069 Main

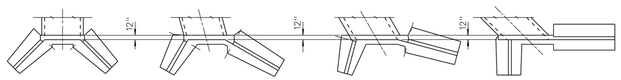
VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

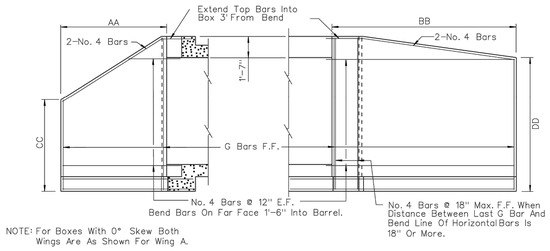
DATE
6/2012

Sheet D-10

SHEET 126 OF 134

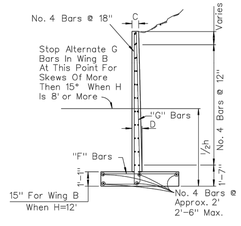


0° SKEW 15° SKEW 30° SKEW 45° SKEW

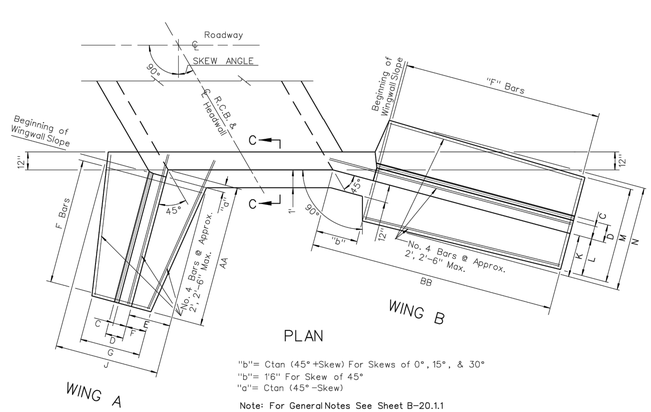


NOTE: For Boxes With 0° Skew Both Wings Are As Shown For Wing A.

SECTION WING A SECTION WING B



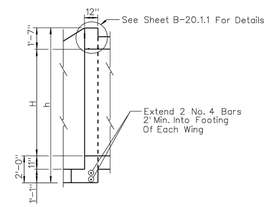
SECTION OF WINGS A AND B



PLAN

"b"= Ctan (45°+Skew) For Skews of 0°, 15°, & 30°
"b"= 1'6" For Skew of 45°
"a"= Ctan (45°-Skew)

Note: For General Notes See Sheet B-20.1.1



SECTION C-C

SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

RCB CULVERTS
TYPE I HEADWALLS

Signed Original On File	B-20.1.5	(502)
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 1/09

TYPE I HEADWALL DIMENSIONS AND REINFORCING STEEL

H=Height In Feet	All Wings Except h= B For 45° Skew	0° SKEW																15° SKEW																H=Height In Feet
		AA & BB	CC & DD	C & D	E & K	F & L	G & M	J & N	WINGS A&B G BARS		WINGS A&B F BARS		AA	BB	CC	DD	C	D	E & K	F	G	J & N	L	M	WING A G BARS		WING A F BARS		WING B G BARS		WING B F BARS		
									SIZE	SPACING	SIZE	SPACING													SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	
3	6-7	4	4-2	8	1-4	0-10	2-1	3-4	4	12	4	12	3-7	4-8	4-11	5-7	8	8	1-4	1	2-6	3-4	1-2	2-10	4	12	4	12	4	12	4	12	3
4	7-7	5	5-8	8	1-6	1-2	2-10	3-10	4	12	4	12	4-6	5-11	5-4	6-2	8	8	1-6	1-1	2-8	3-10	1-3	3-1	4	12	4	12	4	12	4	12	4
5	8-7	6-2	6-2	8	1-9	1-3	3-1	4-4	4	12	4	12	5-6	7-2	5-9	6-9	8	8	1-9	1-2	2-11	4-4	1-4	3-5	4	12	4	12	4	10	4	12	5
6	9-7	7-2	6-8	8	1-11	1-4	3-4	4-10	4	10½	4	12	6-5	8-5	6-3	7-4	8	8	1-11	1-3	3-2	4-10	1-6	3-8	4	12	4	12	4	6½	4	12	6
7	10-7	8-4	7-3	8	2-2	1-6	3-8	5-4	4	7	4	12	7-6	9-9	6-9	8	8	8	2-2	1-4	3-5	5-4	1-7	4	4	8½	4	12	6	10	4	12	7
8	11-7	9-4	7-9	8	2-4	1-7	3-11	5-10	6	10½	4	11	8-5	11	7-2	8-7	9	9	2-4	1-5	3-7	5-10	1-8	4-4	6	12	4	12	6	8	4	9½	8
9	12-7	10-5	8-3	9	2-6	1-8	4-2	6-4	6	9	4	9	9-4	12-3	7-7	9-2	9	10	2-6	1-6	3-10	6-4	1-10	4-7	6	10	4	10	7	9	4	8	9
10	13-7	11-6	8-10	10	2-9	1-9	4-5	6-10	6	7½	4	6½	10-4	13-6	8-1	9-11	9	12	2-9	1-7	4-1	6-10	2	5	6	8	4	8½	7	7½	4	6	10
12	15-7	13-7	9-11	12	3-2	2	5	7-10	7	7	5	6½	12-3	15-11	9-1	11-4	11	15	3-2	1-10	4-7	7-10	2-3	5-8	7	7½	5	6½	7	6	5	6	12

H=Height In Feet	All Wings Except h= B For 45° Skew	30° SKEW																				45° SKEW																				H=Height In Feet
		AA	BB	CC	DD	C	D	E & K	F	G	J & N	L	M	WING A G BARS		WING A F BARS		WING B G BARS		WING B F BARS		AA	BB	CC	DD	C	D	E & K & L	F	G	J & M & N	WING B h	WING B DD	WING A G BARS		WING A F BARS		WING B G BARS		WING B F BARS		
														SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING											SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	
3	6-7	3-4	5-10	4-8	6-2	8	8	1-4	0-11	2-4	3-4	1-3	3-4	4	12	4	12	4	12	4	12	3-4	8-4	4-7	6-7	8	8	1-4	0-11	2-4	3-4	6-7	6-7	4	12	4	12	4	12	4	12	3
4	7-7	4-3	7-5	5-2	6-11	8	8	1-6	1	2-7	3-10	1-6	3-10	4	12	4	12	4	8½	4	12	4-2	10-5	5	7-7	8	8	1-6	1	2-6	3-10	7-7	7-7	4	12	4	12	5	9½	4	12	4
5	8-7	5-2	8-11	5-6	7-8	8	8	1-9	1-1	2-9	4-4	1-9	4-4	4	12	4	12	4	6½	4	12	5-1	12-7	5-5	8-7	9	9	1-9	1-1	2-9	4-4	8-7	8-7	4	12	4	12	6	9½	4	11	5
6	9-7	6-1	10-6	5-11	8-4	8	8	1-11	1-2	3	4-10	1-8	4-10	4	12	4	12	6	12	4	12	5-11	14-8	5-10	9-7	10	10	1-11	1-2	2-11	4-10	9-7	9-7	4	12	4	12	7	10	4	6½	6
7	10-7	7	12-2	6-5	9-3	9	9	2-2	1-4	3-3	5-4	1-10	5-4	4	10½	4	12	6	8½	4	10½	6-11	17	6-3	10-7	12	12	2-2	1-3	3-2	5-4	10-7	10-7	4	10½	4	12	7	8½	5	7½	7
8	11-7	7-11	13-9	6-10	10	9	9	2-4	1-5	3-5	5-10	2-4	5-10	4	6	4	12	6	7	4	7½	7-9	19-1	6-8	11-7	12	12	2-4	1-4	3-4	5-10	11-7	11-7	4	7	4	12	7	6½	6	8	8
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10	13-7	9-9	16-10	7-8	11-7	9	13	2-9	1-7	3-10	6-10	2-9	6-10	6	9	4	7½	7	6½	6	7½	9-6	23-4	7-6	13-7	9	16	2-9	1-6	3-9	6-10	13-7	13-7	6	9½	4	7½	8	6½	8	10	10
12	15-7	11-6	19-11	8-7	13-3	11	16	3-2	1-9	4-4	7-10	3-2	7-10	7	9	5	7½	8	6½	6	7½	11-3	27-7	8-6	15-9	11	20	3-2	1-8	4-2	7-10	15-9	15-9	7	9	5	7	7	8	8	8½	12

SHEET 2 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

RCB CULVERTS
TYPE I HEADWALLS

Signed Original On File	B-20.1.5.1	(502)
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 1/09

RCB CULVERT TYPE I
HEADWALLS

NTS

1
D-11

NOTE:

DETAILS TAKEN FROM THE NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION - 2010 EDITION". CONTRACTOR SHALL USE MOST CURRENT NDOT EDITION OF DETAILS FOR CONSTRUCTION AT TIME OF CONSTRUCTION.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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295 Hwy 50, Suite 1
P.O. Box 1533
Zephyr Cove, NV 89448
(775) 588-9069 Main

Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

Sheet D-11
SHEET 127 OF 134

CUBIC YARDS OF CONCRETE AND POUNDS OF REINFORCING FOR TWO TYPE I HEADWALLS (1)

SPAN	HEIGHT	SINGLE BOX								DOUBLE BOX								TRIPLE BOX							
		0° SKEW		15° SKEW		30° SKEW		45° SKEW		0° SKEW		15° SKEW		30° SKEW		45° SKEW									
		CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.
5	3	5.6	393	6.4	476	7.2	563	8.9	739	7.7	508	8.5	597	9.5	700	11.8	910								
	4	7.6	609	8.0	644	9.6	774	11.6	946	9.7	726	10.1	767	12.0	912	14.6	1119	11.8	842	12.3	886	14.4	1045	17.6	1280
	5	9.6	705	10.2	782	11.8	942	15.0	1238	11.7	825	12.4	908	14.3	1085	18.0	1414	13.9	944	14.6	1030	16.8	1220	21.0	1578
6	3	6.0	418	6.8	504	7.6	595	9.4	779	8.3	600	9.2	699	10.3	817	12.7	1062								
	4	7.9	637	8.3	673	10.0	807	12.1	985	10.3	821	10.8	869	12.7	1032	15.5	1270	12.6	1004	13.2	1058	15.4	1243	18.8	1525
	5	9.9	730	10.6	809	12.2	974	15.4	1278	12.3	917	13.0	1009	15.0	1203	18.8	1566	14.7	1103	15.5	1199	17.7	1413	22.1	1823
	6	12.4	983	12.6	1106	15.5	1505	20.4	2158	14.8	1173	15.0	1310	18.3	1740	23.7	2449	17.2	1361	17.5	1502	21.0	1951	27.1	2708
	7	15.3	1400	16.0	1601	19.8	2155	26.5	3104																
7	3	6.3	442	7.1	532	8.0	626	9.9	820																
	4	8.3	665	8.7	702	10.4	839	12.6	1025																
	5	10.3	756	10.9	837	12.6	1006	15.9	1319																
	6	12.8	1011	12.9	1137	15.9	1544	20.8	2209																
	7	15.6	1432	16.3	1637	20.2	2199	27.0	3161																
8	3	6.7	467	7.5	559	8.4	658	10.4	861	7.8	817	10.7	1064	11.8	1109	14.5	1268								
	4	8.6	693	9.1	731	10.8	872	13.1	1065	11.8	1045	12.3	1078	14.3	1238	17.3	1475	14.9	1320	15.5	1365	17.8	1558	21.4	1858
	5	10.6	782	11.3	864	13.0	1038	16.4	1360	13.8	1137	14.5	1216	16.6	1405	20.6	1773	17.0	1414	17.8	1501	20.2	1720	25.0	2159
	6	13.1	1039	13.3	1169	16.3	1583	21.3	2261	16.4	1401	16.6	1525	19.9	1958	25.6	2676	19.6	1677	19.9	1814	23.6	2276	29.9	3065
	7	16.0	1464	16.7	1673	20.6	2242	27.5	3219	19.2	1824	21.0	2133	24.3	2620	31.8	3637	22.5	2107	24.4	2428	28.0	2946	36.1	4029
	8	17.9	1904	20.2	2234	24.2	2778	33.1	3938	21.2	2267	23.6	2552	27.9	3051	39.5	4359	24.5	2552	27.0	2850	31.7	3381	43.9	4753
10	3	7.3	515	8.2	612	9.2	721	11.4	942	11.2	1111	12.2	1227	13.6	1383	16.8	1734								
	4	9.3	749	9.8	789	11.6	936	14.1	1144	13.2	1348	13.8	1396	16.1	1608	19.6	1939								
	5	11.3	833	12.0	920	13.8	1101	17.4	1441	15.2	1434	16.1	1531	18.4	1770	23.0	2239	19.2	1876	20.1	1985	22.9	2274	28.5	2857
	6	13.8	1093	14.0	1233	17.1	1661	22.3	2365	17.8	1697	18.1	1775	21.7	2187	28.0	3165	21.8	2141	22.2	2219	26.3	2666	33.6	3786
	7	16.6	1528	17.4	1745	21.4	2329	28.4	3334	20.7	2135	21.6	2359	26.1	3006	34.1	4137	24.7	2582	25.8	2821	30.7	3519	39.8	4761
	8	18.6	1978	20.9	2314	25.0	2870	34.1	4054	22.7	2587	25.2	2935	29.7	2544	39.9	4860	26.8	3037	29.4	3399	34.4	4057	45.6	5486
	9	23.2	2117	25.4	2482	31.1	3244	41.4	4597																
		29.5	3352	31.6	3598	38.6	4397	51.7	5892	33.7	3967	36.0	4217	43.5	5077	57.6	6703	37.8	4422	40.3	4688	48.3	5598	63.5	7335
12	4	10.0	804	10.5	848	12.4	1001	15.1	1224	14.6	1732	15.2	1806	17.6	2090	21.5	2449								
	5	12.0	884	12.7	975	14.6	1165	18.4	1522	16.6	1815	17.5	1941	20.0	2247	24.9	2849								
	6	14.5	1148	14.7	1296	17.9	1738	23.3	2469	19.2	2086	19.6	2244	23.3	2817	29.9	3799	23.9	2744	24.4	2922	28.7	3576	36.5	4733
	7	17.3	1591	18.1	1817	22.2	2416	29.4	3449	22.1	2531	23.0	2775	27.7	3497	36.1	4782	26.8	3195	27.9	3460	33.1	4261	42.8	5719
	8	18.3	1945	21.8	2404	25.8	2962	35.1	4171	23.1	2884	26.7	3396	31.3	4048	41.8	5506	27.8	3554	31.6	4094	36.8	4830	48.6	6446
	9	23.9	2181	26.1	2553	31.9	3327	42.4	4704	28.7	3123	31.1	3522	37.5	4414	49.2	6042	33.5	3796	36.1	4218	43.0	5191	56.1	6984
	10	30.2	3429	32.3	3680	39.4	4488	52.7	6003	35.0	4373	37.4	4646	45.1	5580	59.6	7344	39.9	5049	42.4	5341	50.7	6353	66.5	8289
	12	42.8	5137	47.2	5372	56.4	6075	80.1	8124	47.8	6087	52.3	6340	62.2	7141	87.2	9470	52.7	6768	57.5	7045	67.9	7930	94.2	10.420

(1) – QUANTITIES SHOWN ARE FOR HEADWALLS AT THE INLET AND OUTLET

NEVADA DEPARTMENT OF TRANSPORTATION

ESTIMATE OF QUANTITIES
TYPE I HEADWALLS

Signed Original On File	B-20.1.6 (502)	
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 3/97

ESITMATE OF QUANTITIES
TYPE I HEADWALLS
NTS

1
D–12

NOTE:

DETAILS TAKEN FROM THE NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION - 2010 EDITION". CONTRACTOR SHALL USE MOST CURRENT NDOT EDITION OF DETAILS FOR CONSTRUCTION AT TIME OF CONSTRUCTION.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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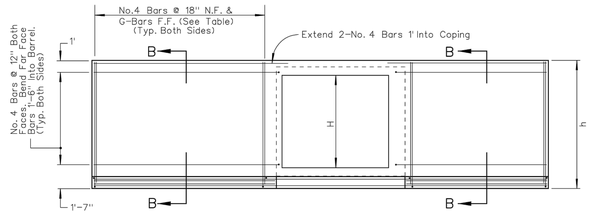
Zephyr Cove, NV 89448
(775) 588-9069 Main

Valley & Mountain Consulting

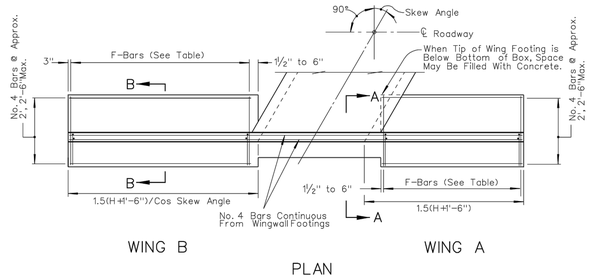
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

Sheet D-12
SHEET 128 OF 134



ELEVATION



WING B WING A

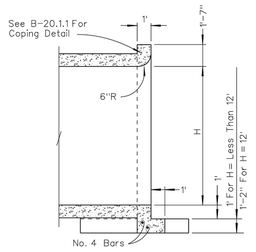
PLAN

NOTES:

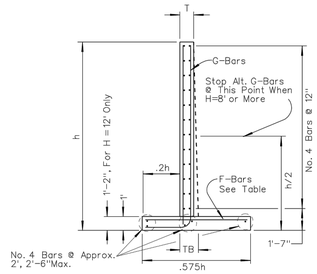
1. FOR GENERAL NOTES SEE SHEET B-20.1.1.
2. FOR QUANTITIES SEE SHEET B-20.1.4.1

TABLE

H = HEIGHT FEET	T = INCHES	TB = INCHES	G-BARS SIZE NO.	G-BARS SPACE INCHES	F-BARS SIZE NO.	F-BARS SPACE INCHES
3	8	8	5	9 1/2	4	12
4	8	8	5	9 1/2	4	12
5	9	9	6	9 1/2	4	11
6	10	10	7	10	4	6 1/2
7	12	12	7	8 1/2	5	7 1/2
8	12	13	7	6 1/2	6	8
9	12	14	7	7	6	7 1/2
10	12	16	8	6 1/2	8	10
12	12	20	9	7	8	8 1/2



SECTION A-A



SECTION B-B

SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

RCB CULVERTS
TYPE II HEADWALLS

Signed Original On File	B-20.1.4 (502,505)	
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 1/05

① - QUANTITIES SHOWN ARE FOR TWO HEADWALLS AT THE INLET AND OUTLET

CUBIC YARDS OF CONCRETE AND POUNDS OF REINFORCING FOR TWO TYPE II HEADWALLS ①

SPAN	HEIGHT	SINGLE BOX 0° SKEW CONC.	SINGLE BOX 0° SKEW REINF.	SINGLE BOX 15° SKEW CONC.	SINGLE BOX 15° SKEW REINF.	SINGLE BOX 30° SKEW CONC.	SINGLE BOX 30° SKEW REINF.	SINGLE BOX 45° SKEW CONC.	SINGLE BOX 45° SKEW REINF.	DOUBLE BOX 0° SKEW CONC.	DOUBLE BOX 0° SKEW REINF.	DOUBLE BOX 15° SKEW CONC.	DOUBLE BOX 15° SKEW REINF.	DOUBLE BOX 30° SKEW CONC.	DOUBLE BOX 30° SKEW REINF.	DOUBLE BOX 45° SKEW CONC.	DOUBLE BOX 45° SKEW REINF.	TRIPLE BOX 0° SKEW CONC.	TRIPLE BOX 0° SKEW REINF.	TRIPLE BOX 15° SKEW CONC.	TRIPLE BOX 15° SKEW REINF.	TRIPLE BOX 30° SKEW CONC.	TRIPLE BOX 30° SKEW REINF.	TRIPLE BOX 45° SKEW CONC.	TRIPLE BOX 45° SKEW REINF.	HEIGHT	SPAN
5	3	9.4	871	9.4	888	10.2	947	11.5	1073	11.4	991	11.6	1013	12.4	1085	14.3	1243									3	
	4	12.8	1141	12.8	1163	13.5	1237	15.6	1399	14.8	1261	15.0	1287	15.9	1376	18.6	1568	16.8	1367	17.0	1397	18.5	1498	21.4	1718	4	5
	5	16.4	1676	16.6	1707	17.5	1813	19.8	2044	18.6	1795	18.6	1831	19.9	1952	22.8	2214	20.6	1901	20.8	1941	22.3	2074	25.6	2364	5	
6	3	9.8	886	9.8	903	10.6	963	12.1	1094	12.2	1094	12.2	1119	13.2	1204	15.3	1389									3	
	4	13.2	1155	13.2	1178	14.1	1254	16.2	1419	15.4	1364	15.6	1393	16.7	1495	19.4	1714	17.8	1536	18.0	1572	19.5	1693	22.8	1957	4	
	5	16.8	1690	17.8	1722	18.9	1830	20.5	2064	20.0	1898	20.4	1937	21.7	2071	24.8	2360	22.4	2070	22.8	2116	24.5	2269	28.2	2603	5	6
	6	25.8	2598	26.1	2646	27.6	2808	31.1	3160	27.8	2806	28.5	2861	30.2	3049	34.5	3456	30.4	2978	31.1	3040	33.0	3247	38.3	3699	6	
	7	32.0	3666	32.3	3733	34.2	3960	38.6	4453																	7	
7	3	10.2	900	10.2	918	11.0	980	12.5	1114																	3	
	4	13.6	1170	13.6	1193	14.5	1270	16.6	1439																	4	
	5	17.2	1704	17.3	1736	19.3	1846	20.9	2085																	5	7
	6	26.2	2612	26.3	2660	28.0	2824	31.7	3181																	6	
	7	32.2	3682	32.7	3750	34.6	3978	39.0	4485																	7	
8	3	10.6	914	10.6	933	11.4	996	13.1	1134	13.8	1296	14.0	1328	15.2	1437	17.1	1675									3	
	4	14.0	1184	14.0	1207	14.9	1287	17.0	1460	17.0	1566	17.2	1602	18.5	1728	21.6	2000	20.2	1830	20.4	1876	24.1	2033	26.0	2373	4	
	5	17.6	1718	17.7	1751	18.8	1863	21.3	2105	20.8	2100	20.9	2146	22.6	2304	25.9	2646	24.8	2364	25.1	2420	27.0	2609	31.5	3019	5	
	6	26.4	2626	26.7	2675	28.4	2841	32.1	3201	29.2	3008	29.9	3070	31.8	3282	36.3	3742	32.4	3272	33.1	3344	35.4	3587	40.9	4115	6	
	7	32.8	3697	33.0	3765	34.9	3995	39.3	4496	35.8	4067	36.2	4147	38.5	4422	43.7	5019	39.0	4331	39.6	4421	42.3	4727	48.3	5392	7	
	8	40.4	4979	40.8	5070	43.3	5377	18.8	6046	43.8	5332	44.2	5434	47.1	5785	53.3	6546	47.0	5596	47.6	5708	50.9	6190	57.9	6919	8	
10	3	11.4	943	11.4	962	12.5	1029	14.3	1174	14.8	1604	15.0	1648	16.3	1793	18.9	2110									3	
	4	14.6	1212	14.7	1237	15.8	1320	18.1	1500	18.2	1874	18.3	1922	19.8	2084	24.1	2435									4	
	5	18.4	1747	18.5	1781	19.8	1895	22.5	2145	20.4	2408	22.0	2466	23.9	2660	26.8	3081	25.6	2836	25.9	2909	28.2	3154	32.9	3686	5	
	6	27.0	2655	27.2	2705	28.9	2874	32.8	3241	30.4	3316	31.2	3390	33.1	3638	38.0	4117	34.1	3744	35.0	3833	37.5	4132	43.4	4782	6	
	7	33.4	3729	33.8	3799	36.1	4033	40.9	4542	37.2	4375	37.6	4467	40.1	4778	45.7	5454	41.0	4803	41.6	4910	44.5	5272	51.1	6059	7	
	8	41.2	5015	41.5	5107	44.0	5419	48.6	6097	44.4	5640	44.7	5724	47.8	6141	54.2	6981	48.4	6068	48.9	6197	52.2	6635	59.8	7586	8	
	9	49.8	5687	50.2	5791	53.1	6144	59.6	6909																	9	
	10	61.0	8535	61.4	8690	65.2	9216	73.2	10358	65.2	9109	65.8	9285	70.2	9878	79.2	11169	69.6	9537	70.4	9728	75.2	10372	85.4	11774	10	
12	4	15.4	1241	15.5	1266	16.6	1356	19.1	1540	19.6	2290	19.9	2352	21.4	2564	24.9	3023									4	
	5	18.8	1775	18.9	1810	20.2	1929	22.9	2185	23.0	2824	23.1	2896	25.0	3140	28.9	3669									5	
	6	28.0	2683	28.2	2734	29.9	2908	33.9	3281	32.2	3732	33.6	3820	35.1	4118	40.1	4766	36.8	4381	37.4	4492	40.3	4867	46.7	5683	6	
	7	34.2	3761	33.8	3831	36.5	4069	41.3	4586	38.4	4791	39.0	4897	41.6	5258	47.5	6042	43.0	5440	43.8	5569	47.0	6007	54.1	6980	7	
	8	42.0	5050	42.1	5143	44.8	5459	50.6	6147	46.6	6056	46.9	6140	50.2	6621	56.0	7569	51.2	6705	51.7	6856	55.6	7370	63.6	8487	8	
	9	50.4	5722	50.8	5828	53.8	6187	60.6	6959	55.2	6728	55.8	6869	59.4	7346	67.4	8381	60.0	7377	60.8	7541	65.0	8095	74.2	9299	9	
	10	61.8	8580	62.3	8736	65.9	9267	74.3	10421	66.6	9525	67.1	9715	71.7	10358	81.1	11757	71.4	10174	72.3	10387	77.5	11107	88.1	12675	10	
	12	88.0	12939	88.8	13172	94.0	13963	105.7	15682	93.2	13884	94.2	14150	99.8	15054	113.1	17018	98.0	14533	99.2	14822	105.6	15803	119.4	17936	12	

QUANTITIES FOR ADDITIONAL CELLS

CONCRETE FOR TWO TYPE II HEADWALLS FOR EACH ADDITIONAL CELL (CU. YARDS) (ADD THIS QUANTITY TO THE QUANTITY FOR A DOUBLE BOX)

FOR HEIGHT(H) LESS THAN 12ft.
$[8.56ft^2 (SPAN(ft)+0.67ft)]/COS\ SKEW\ ANGLE$

FOR HEIGHT(H) EQUAL TO OR GREATER THAN 12ft.
$[9.23ft^2 (SPAN(ft)+0.67ft)]/COS\ SKEW\ ANGLE$

REINFORCING FOR TWO TYPE II HEADWALLS FOR EACH ADDITIONAL CELL (POUNDS) (ADD THIS QUANTITY TO THE QUANTITY FOR A DOUBLE BOX)

FOR HEIGHT(H) LESS THAN OR EQUAL TO 7ft.
$[16.69lb/ft(SPAN(ft)+0.67ft)]/COS\ SKEW\ ANGLE$

FOR HEIGHT(H) EQUAL TO 8ft OR 9ft.
$[24.03lb/ft(SPAN(ft)+0.67ft)]/COS\ SKEW\ ANGLE$

FOR HEIGHT(H) EQUAL TO OR GREATER THAN 10ft.
$[42.72lb/ft(SPAN(ft)+0.67ft)]/COS\ SKEW\ ANGLE$

ANGLE	COSINE
0°	1.0000
15°	0.9659
30°	0.8660
45°	0.7071

SHEET 2 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

RCB CULVERTS
TYPE II HEADWALLS

Signed Original On File	B-20.1.4.1 (502,505)	
CHIEF BRIDGE ENGINEER	ADOPTED 11/70	REVISION 10/00

RCB CULVERT TYPE II HEADWALLS

NTS

1
D-13

NOTE:

DETAILS TAKEN FROM THE NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION - 2010 EDITION". CONTRACTOR SHALL USE MOST CURRENT NDOT EDITION OF DETAILS FOR CONSTRUCTION AT TIME OF CONSTRUCTION.

REVISIONS

MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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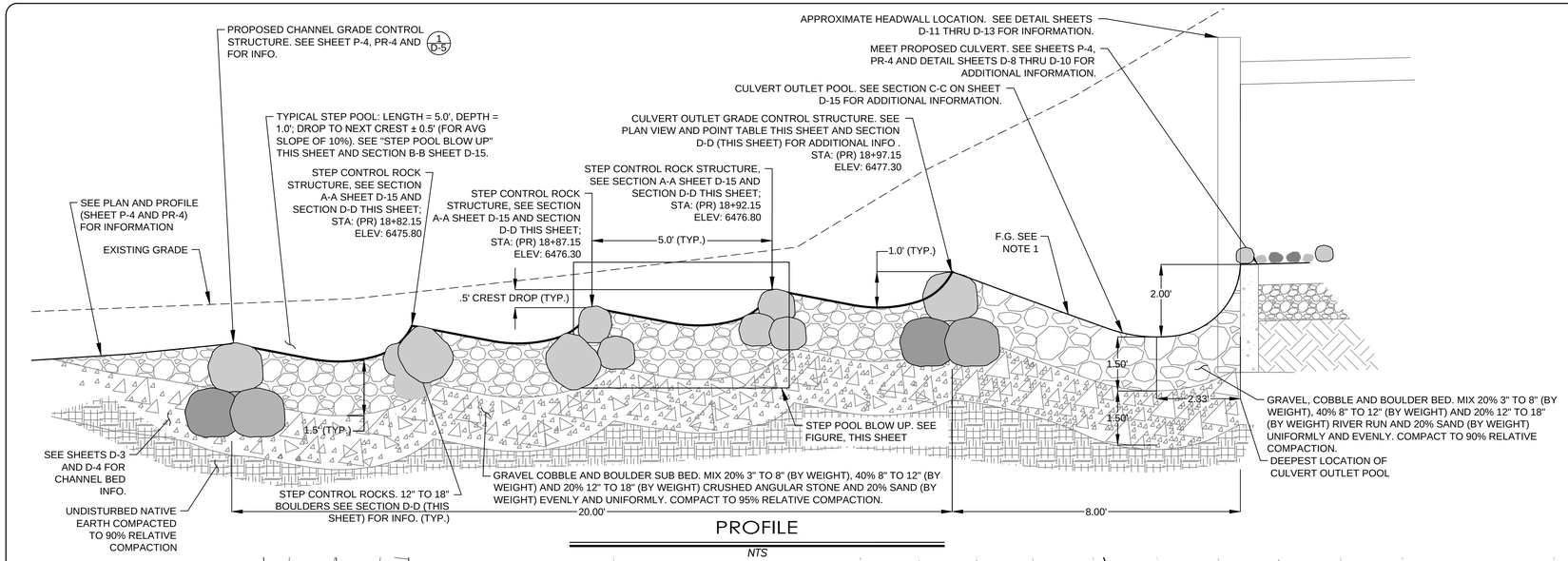
(775) 588-9069 Main

Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

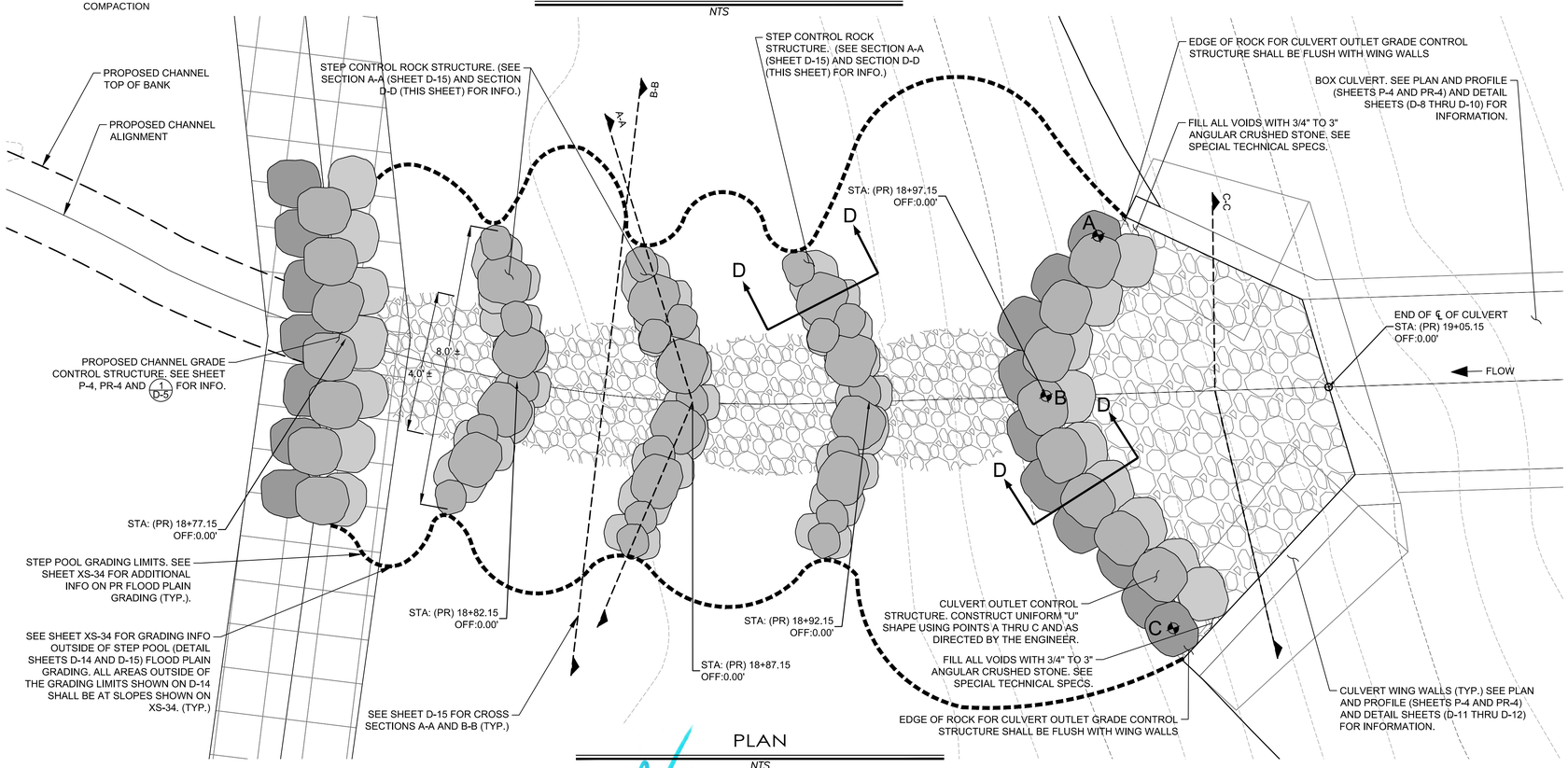
DATE
6/2012

Sheet D-13



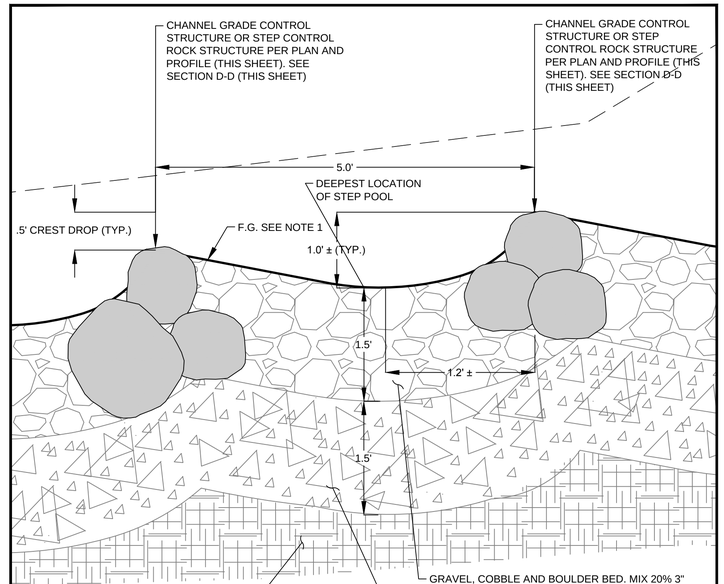
PROFILE

NTS



PLAN

NTS



STEP POOL BLOW UP

NTS

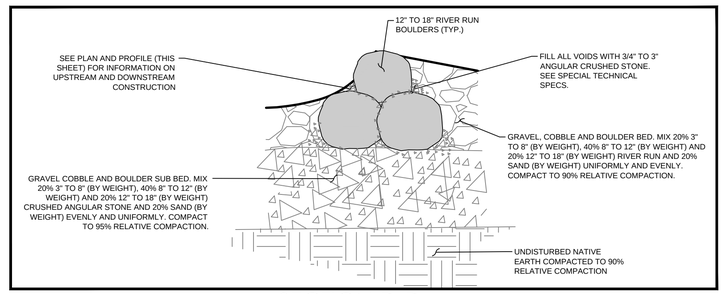
NOTES:

1. FINISHED GROUND OF STEP POOL AND CULVERT OUTLET POOL SHALL BE "PARABOLICALLY" SHAPED SO THAT THE DEEPEST PORTION IS ADJACENT TO THE UPSTREAM CONTROL STRUCTURE OR HEADWALL, GRADUALLY AND SMOOTHLY RAISED IN ELEVATION TO MEET THE DOWNSTREAM CONTROL STRUCTURE.
2. PROFILE IS AT PR ALIGNMENT AS SHOWN IN PLAN VIEW. ALL OFFSETS ARE 0.00 UNLESS OTHERWISE SPECIFIED.
3. ALL ELEVATIONS REFERENCE THE FINISHED GRADE, TOP OF ROCK.

CULVERT OUTLET CONTROL STRUCTURE POINT TABLE			
POINT DESCRIPTION	ELEVATION	NORTHING	EASTING
A	6482.31	14768912.8449	2238634.8828
B	6477.30	14768909.9107	2238638.6395
C	6481.43	14768911.0443	2238646.0431

TABLE NOTE:

1. ALL POINTS REFERENCE THE CENTER (HORIZONTAL) POSITION OF THE STRUCTURE AND THE TOP (ELEVATION) OF THE STRUCTURE.



SECTION D-D

NTS

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp.12/31/13
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No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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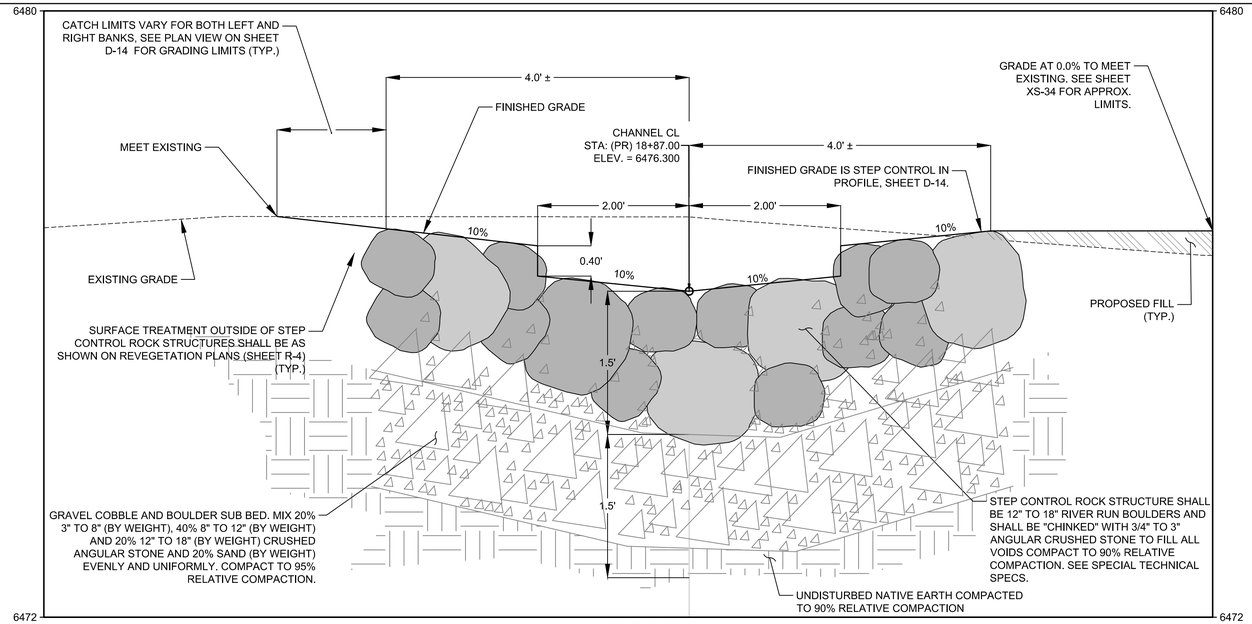
Valley & Mountain Consulting

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DETAIL SHEET

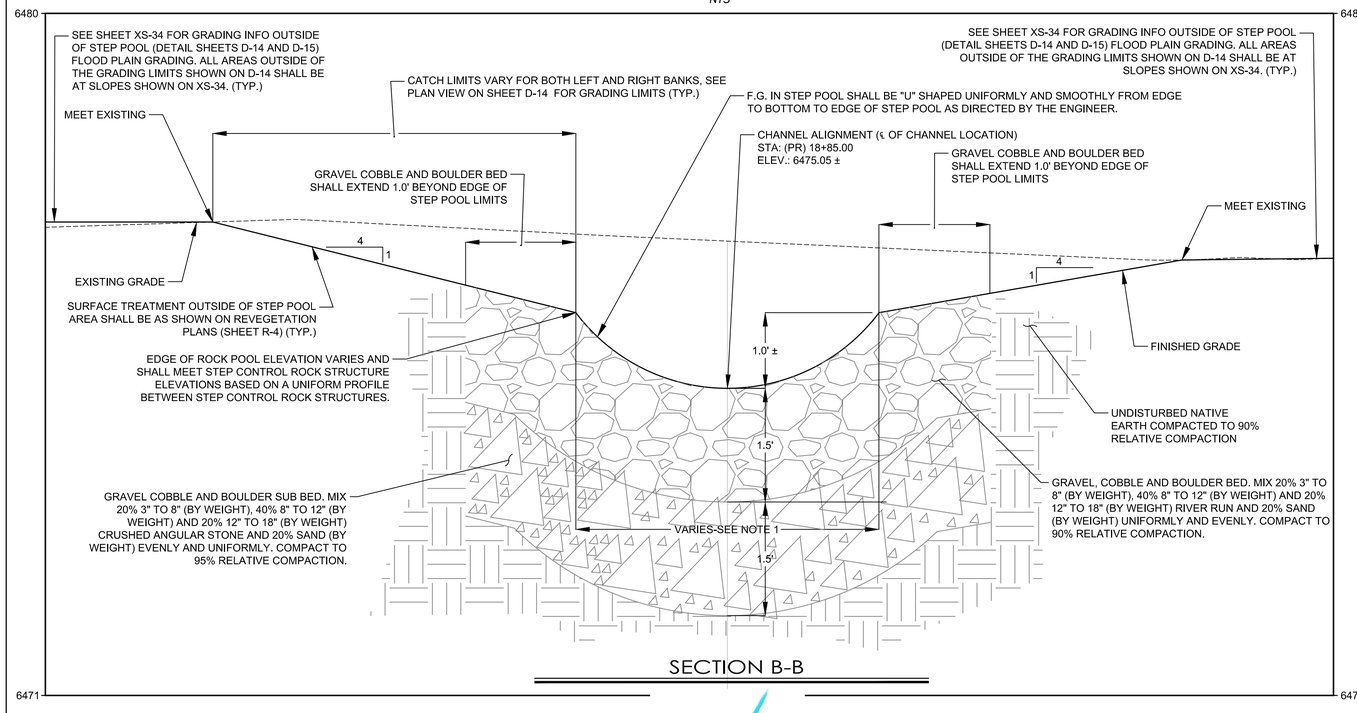
DATE
6/2012

Sheet D-14
SHEET 130 OF 134



SECTION A-A

NTS

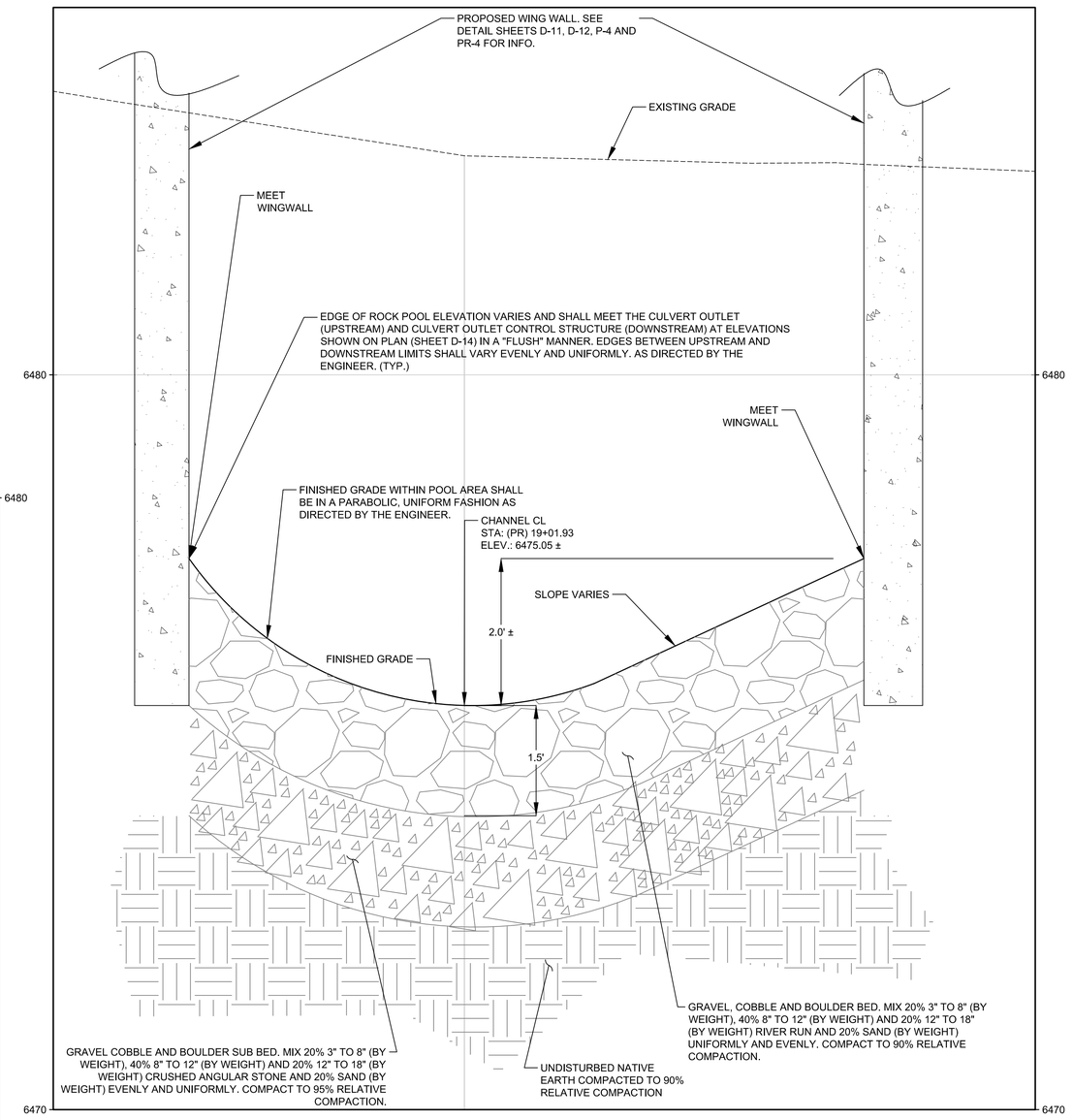


SECTION B-B

NTS

NOTES:

1. WIDTH OF STEP POOL WILL VARY THROUGH LENGTH OF STEP POOL. IT SHALL BE 4' WIDE AT EACH END (UPSTREAM AND DOWNSTREAM) AND 5' WIDE AT THE DEEPEST LOCATION (AS SHOWN IN STEP POOL BLOW UP ON SHEET D-4) WIDTH SHALL BE UNIFORMLY AND SMOOTHLY TRANSITIONED.
2. SECTIONS B-B AND C-C ARE AT THE DEEPEST LOCATION IN STEP POOL. SEE STEP POOL BLOW UP DETAIL ON SHEET D-14.



SECTION C-C

NTS

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

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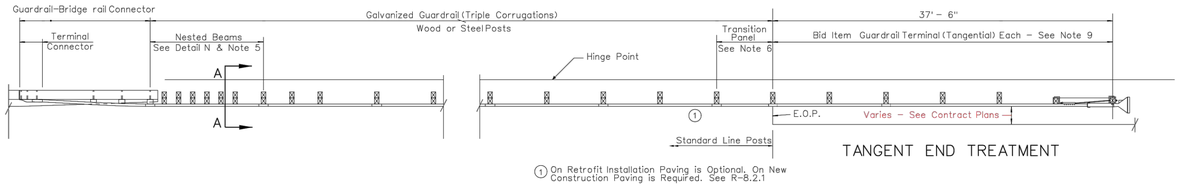
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION

DETAIL SHEET

DATE
6/2012

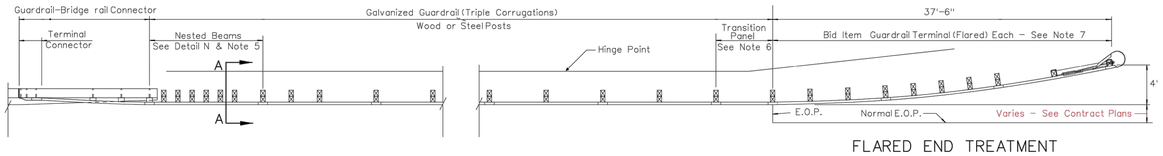
Sheet D-15

SHEET 131 OF 134

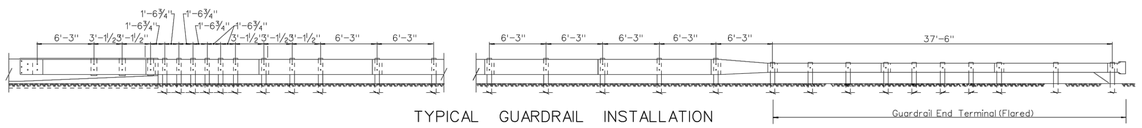


TANGENT END TREATMENT

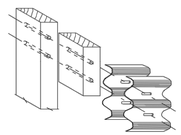
1 On Retrofit Installation Paving is Optional. On New Construction Paving is Required. See R-8.2.1



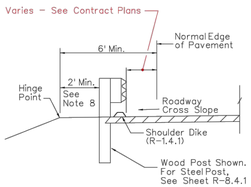
FLARED END TREATMENT



TYPICAL GUARDRAIL INSTALLATION



DETAIL N
NESTED BEAMS



SECTION A-A

NOTES:

1. FOR DETAILS AND DIMENSIONS NOT SHOWN SEE SHEETS R-8.1.2 THRU R-8.4.3.
2. SEE SHEET T-35.3.1 FOR SPECIAL GUARDRAIL TERMINAL END FOR RAILROAD CROSSING.
3. SEE SHEET R-8.2.2 FOR TRAILING END ANCHOR.
4. MINIMUM INSTALLATION:

GUARDRAIL-BRIDGE RAIL CONNECTOR	-	14'-4¾"
NESTED BEAM SECTION	-	12'-6
THRIE BEAM SECTION	-	12'-6"
TRANSITION PANEL	-	6'-3"
APPROVED "350" TERMINAL	-	37'-6" 8'-3"-1¾"

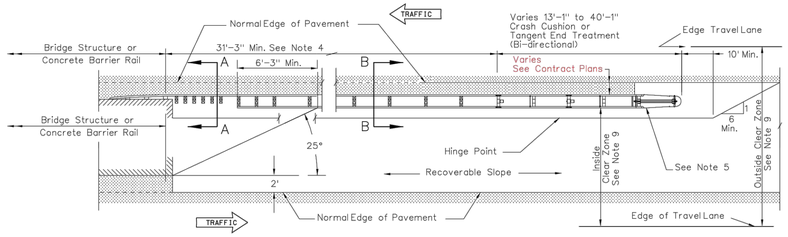
ANY OTHER VARIATION THAT REDUCES THE MINIMUM LENGTH SHALL REQUIRE APPROVAL OF THE CHIEF ROAD DESIGN ENGINEER.

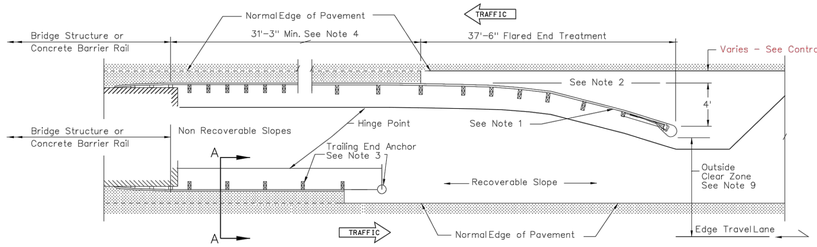
5. NO DIRECT PAYMENT FOR THE ADDITIONAL GUARDRAIL PANEL.
6. THE LENGTH OF THE TRANSITION PANEL (6'-3") SHALL BE ADDED TO THE ESTIMATED LENGTH OF THE THRIE BEAM GUARDRAIL, SEE SHEET R-8.4.1.
7. FOR GRADING DETAILS NOT SHOWN, SEE SHEET R-8.2.1. FOR OTHER APPROVED "350" TERMINALS NOT SHOWN, REFER TO MANUFACTURERS DRAWINGS.
8. ON RETROFIT INSTALLATIONS IF MINIMUM CANNOT BE MET AND THE DISTANCE BETWEEN BACK OF POST AND HINGE POINT IS LESS THAN 2', THE POST SHALL BE LENGTHENED 1' MIN.
9. WHEN GUARDRAIL IS PLACED AT NORMAL EDGE OF PAVEMENT, THE TANGENT END TREATMENT SHALL BE FLARED @ 50:1 TAPER TO GET HEAD PIECE CLEAR OF EDGE OF PAVEMENT.
10. APPROACH GUARDRAIL TERMINALS SHALL BE "NCHRP 350", FHWA, AND NDOT APPROVED.
11. A REFLECTORIZED OBJECT MARKER SHALL BE INSTALLED ON THE IMPACT HEAD OF THE APPROVED "350" TERMINAL PER MANUFACTURERS RECOMMENDATIONS.
12. ALL WOOD/STEEL POSTS SHALL BE STAMPED WITH THE LENGTH ON OR NEAR THE TOP SURFACE IN A CONSPICUOUS PLACE. THE STAMPED LETTERING SHALL BE 1½" HIGH AND ¼" DEEP FOR WOOD AND ¼" TO ⅜" IN HEIGHT FOR STEEL. IF THE LETTERING IS DISTURBING DURING INSTALLATION IT SHALL BE RE-STAMPED.

NEVADA DEPARTMENT OF TRANSPORTATION

TYPICAL GUARDRAIL INSTALLATION

Signed Original On File	R-8.1.1	(618)
CHIEF ROAD DESIGN ENGR.	ADOPTED 1/89	REVISION 6/09



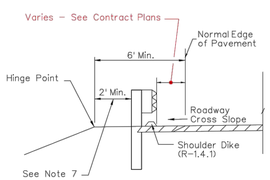


NOTES:

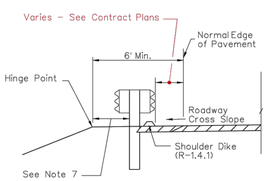
1. FOR END TREATMENTS NOT SHOWN, REFER TO MANUFACTURER'S DRAWINGS.
2. SHOULDER DIKES, DOWN DRAIN, AND CURBS ARE NOT TO BE INSTALLED IN THESE AREAS.
3. SEE SHEET R-8.2.2 FOR DETAILS NOT SHOWN.
4. GALVANIZED GUARDRAIL (TRIPLE CORRUGATIONS): SEE SHEET R-8.4.1 AND R-8.4.1.1.
5. CRASH CUSHION OR TANGENT END TREATMENT (BI-DIRECTIONAL) CAN BE FLARED AT 50:1 TAPER.
6. RECOVERABLE SLOPES REQUIRED BEHIND GATING PORTION OF END TREATMENT OR CRASH CUSHION.
7. ON RETROFIT INSTALLATIONS WHEN DISTANCE BETWEEN BACK OF POST AND HINGE POINT IS LESS THAN 2', THE POST SHALL BE LENGTHENED 1' MINIMUM.
8. GUARDRAIL HEIGHTS ON STAGE CONSTRUCTION PROJECTS SHALL BE GOVERNED BY FINAL SURFACING HEIGHT.
9. REFERENCE: AASHTO ROADSIDE DESIGN GUIDE, CURRENT EDITION.
10. CLEAR ZONE SHOULD BE BASED ON DESIGN YEAR TRAFFIC VOLUMES.
11. RECOVERABLE SLOPES ARE 4:1 OR FLATTER.

LEGEND:

▨ - PAVED AREAS



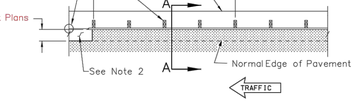
SECTION A-A



SECTION B-B

Design Speed (MPH)	Flare Rate
75	16:1
70	15:1
60	13:1
50	11:1
40	9:1
30	7:1

GUARDRAIL FLARE RATES



NEVADA DEPARTMENT OF TRANSPORTATION

TYPICAL GUARDRAIL INSTALLATION

Signed Original On File	R-8.1.2	(618)
CHIEF ROAD DESIGN ENGR.	ADOPTED 7/98	REVISION 6/09

TYPICAL GUARDRAIL INSTALLATION

NTS

1
D-16

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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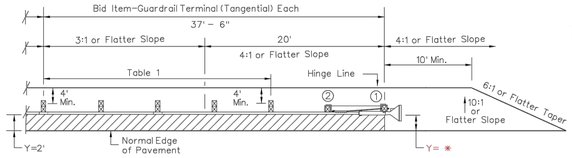
Valley & Mountain Consulting

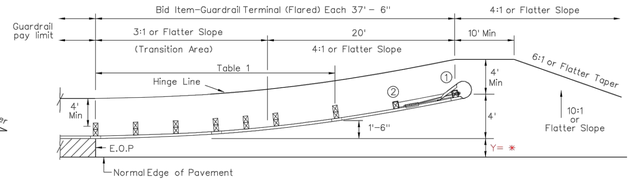
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

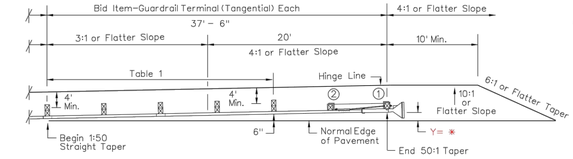
Sheet D-16
SHEET 132 OF 134



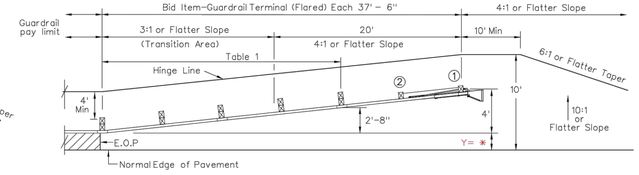
METHOD A
GUARDRAIL TERMINAL (TANGENTIAL)



METHOD C
GUARDRAIL TERMINAL (FLARED) (PARABOLIC)



METHOD B
Terminal at 50:1 Straight Taper
GUARDRAIL TERMINAL (TANGENTIAL)



METHOD D
GUARDRAIL TERMINAL (FLARED) (STRAIGHT)

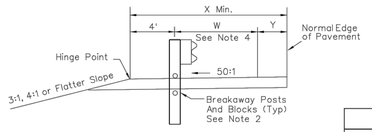


TABLE 1 SECTION

TABLE 1

Terminal Ends	W (Flare)	X (Widening)	Y (Shy)
Method A	1'-3¼"	7'-3¼"	*
Method B	1'-3¼"	5'-3¼" to 5'-9¼"	*
Method C	1'-3¼" to 2'-9¼"	7'-3¼" to 8'-9¼"	*
Method D	1'-3¼" to 3'-11¼"	7'-3¼" to 9'-11¼"	*

* Varies – See Contract Plans

NOTES:

1. FOR TYPICAL GUARDRAIL INSTALLATION, SEE SHEET R-8.1.1.
2. FOR DETAILS NOT SHOWN, INCLUDING HEIGHTS OF POSTS FOR SOIL TUBE INSTALLATION ON POSTS ① AND ②, SEE MANUFACTURER'S DRAWINGS.
3. APPROACH AND TRAILING END GUARDRAIL TERMINALS SHALL BE "NCHRP REPORT 350" TEST LEVEL 3 (TL-3), FHWA, AND NEVADA DOT APPROVED.
4. "W" IS TO THE CENTER OF POST, EXCLUDING POSTS ① AND ②. USE TABLE 1 FOR BREAKAWAY POSTS WITH BLOCKS, EXCLUDING POSTS ① AND ②.

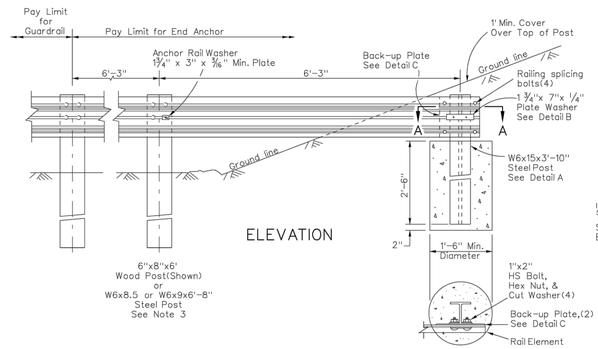
LEGEND:

PAVED AREAS

NEVADA DEPARTMENT OF TRANSPORTATION

GUARDRAIL TERMINALS GRADING PLAN

Signed Original On File	R-8.2.1	(61B)
CHIEF ROAD DESIGN ENGR.	ADOPTED 4/98	REVISION 6/09



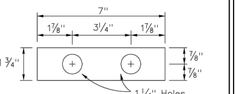
ELEVATION

SECTION A-A

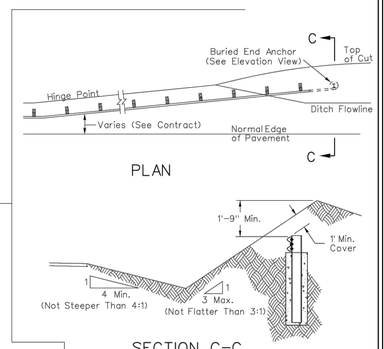
W-BEAM INSTALLATION

DETAIL A

DETAIL C
Back-up Plate, For Use Between Guard Rail and Steel Post



DETAIL B
¼" Plate Washer



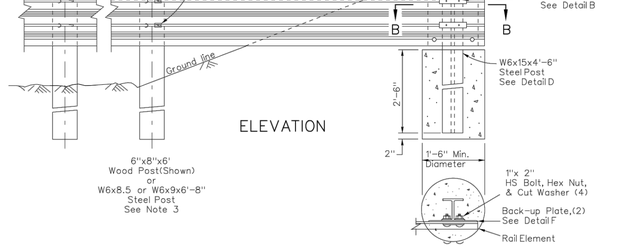
PLAN

SECTION C-C
W-Beam Shown

NOTES:

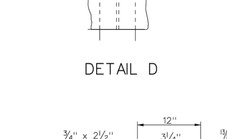
1. CONCRETE SHALL BE CLASS A OR AA.
2. ALL HARDWARE TO BE GALVANIZED.
3. FOR GUARDRAIL DETAILS NOT SHOWN, REFER TO SHEET R-8.5.1(W-BEAM) OR R-8.4.1, R-8.4.1.1(THRIE BEAM).
4. BACKFILL ACCORDING TO SECTION 207.

THRIE BEAM INSTALLATION

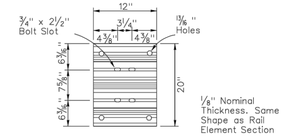


ELEVATION

SECTION B-B



DETAIL D



DETAIL F
Back-up Plate, For Use Between Guard Rail and Steel Post

NEVADA DEPARTMENT OF TRANSPORTATION

BURIED END ANCHOR W-BEAM & THRIE BEAM

Signed Original On File	R-8.2.3	(61B)
CHIEF ROAD DESIGN ENGR.	ADOPTED 1/05	REVISION

TYPICAL GUARDRAIL INSTALLATION

NTS

1
D-17

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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295 Hwy 50, Suite 1
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Zephyr Cove, NV 89448
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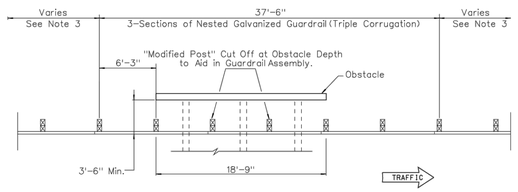
Valley & Mountain Consulting

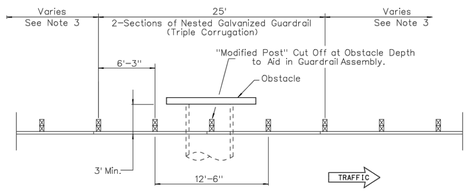
MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

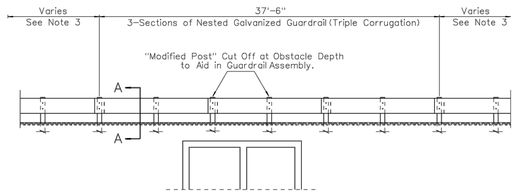
Sheet D-17
SHEET 133 OF 134



PLAN

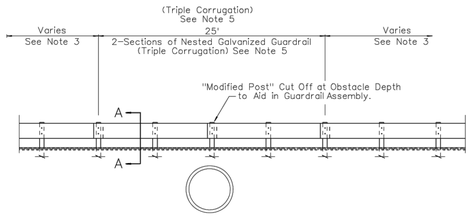


PLAN



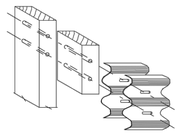
ELEVATION

TYPE 2
(2 Posts Modified)



ELEVATION

TYPE 1
(1 Post Modified)



SECTION A-A
NESTED BEAMS

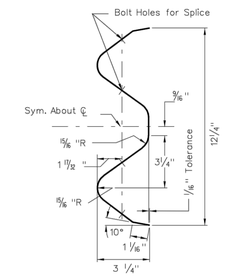
NOTES:

1. THESE DETAILS ARE TO BE USED ONLY WHEN GUARDRAIL POST CANNOT BE INSTALLED TO AVOID UNDERGROUND OBSTRUCTIONS WITH GUARDRAIL POSTS.
2. SEE SHEET R-8.4.1 FOR DETAIL ON GALVANIZED GUARDRAIL (TRIPLE CORRUGATION) NOT SHOWN.
3. GUARDRAIL LENGTHS OF NEED SHALL BE BASED ON DESIGN YEAR TRAFFIC VOLUMES-SEE CURRENT EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE FOR DETAILS.
4. CHECK FEASIBILITY OF REMOVING OBSTACLE OR EXTENDING CULVERT OUTSIDE CLEAR ZONE VERSUS COST OF REMOVAL.
5. IF THE GUARDRAIL SPLICE OCCURS ON THE POSTS WHICH ARE ADJACENT TO THE MODIFIED POST THEN THREE CONTIGUOUS SECTIONS (37'-6") OF NESTED GUARDRAIL ARE REQUIRED, WITH THE MIDDLE SECTION BEING CENTERED AT THE LOCATION OF THE MODIFIED POST.

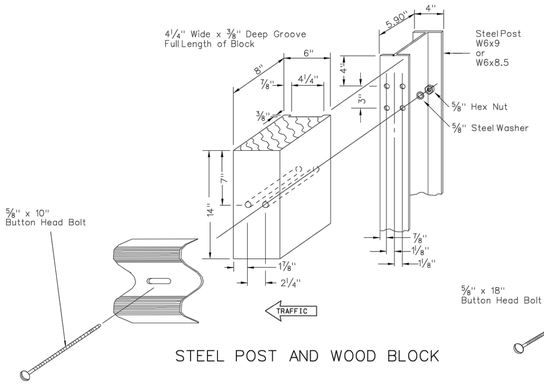
NEVADA DEPARTMENT OF TRANSPORTATION

GUARDRAIL INSTALLATION
MODIFIED POST

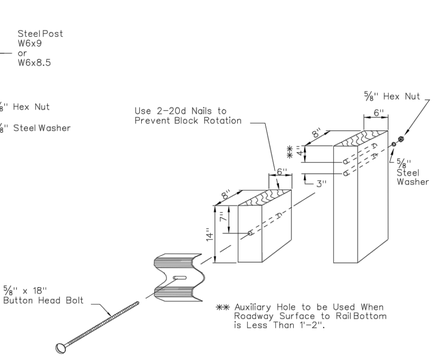
Signed Original On File	R-8.3.2	(618)
CHIEF ROAD DESIGN ENGR.	ADOPTED 7/98	REVISION 10/02



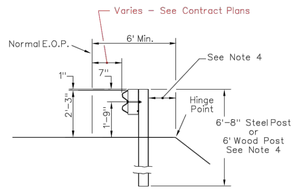
SECTION THRU RAIL ELEMENT



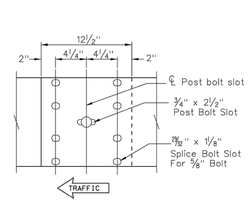
STEEL POST AND WOOD BLOCK



WOOD POST & BLOCK



TYPICAL GUARD RAIL INSTALLATION

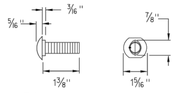


RAIL SPLICE

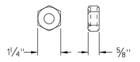
PLAN
WOOD POST AND BLOCK

NOTES:

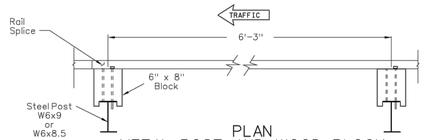
1. ALL HOLES ¾" DIA.
2. FOR METAL POSTS - RAIL MOUNTS TO BLOCK WITH BOLT ON APPROACHING TRAFFIC SIDE OF BLOCK AND POST WEB.
3. ON RETROFIT INSTALLATIONS WHEN DISTANCE BETWEEN BACK OF GUARDRAIL POST AND HINGE POINT IS LESS THAN 2', THE POST SHALL BE LENGTHENED 1' MIN.
4. GUARDRAIL HEIGHTS ON STAGED CONSTRUCTIONS PROJECTS SHALL BE GOVERNED BY FINAL SURFACING ELEVATIONS.



5/8" SPLICE BOLT



5/8" RECESSED NUT



PLAN
METAL POST AND WOOD BLOCK

NEVADA DEPARTMENT OF TRANSPORTATION

GALVANIZED GUARDRAIL
("W" BEAM)

Signed Original On File	R-8.5.1	(618)
CHIEF ROAD DESIGN ENGR.	ADOPTED 2/79	REVISION 6/09

TYPICAL GUARDRAIL INSTALLATION 1
NTS D-18

REVISIONS			
MARK	DATE	BY	

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN H. PECK
Exp. 12/31/13
CIVIL
No. 16993

SEAL OF WASHOE COUNTY
STATE OF NEVADA

Nevada Tahoe Conservation District

WOOD RODGERS

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VALLEY & MOUNTAIN CONSULTING

MIDDLE ROSEWOOD CREEK AREA "A" SEZ RESTORATION
DETAIL SHEET

DATE
6/2012

Sheet D-18
SHEET 134 OF 134