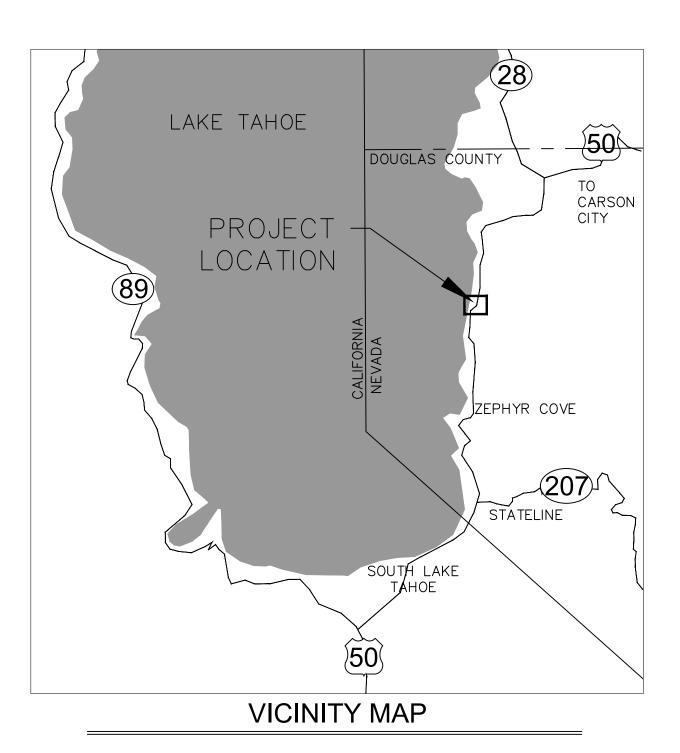
NEVADA TAHOE CONSERVATION DISTRICT PITTMAN TERRACE WATER QUALITY IMPROVEMENT PROJECT

IN THE COUNTY OF DOUGLAS EIP #01.01.01.17



SHEET INDEX							
SHEET TITLE	SHEET NO.	PAGE NO.					
TITLE	i	1					
GENERAL NOTES	ii	2					
INDEX	iii	3					
STAGING, STORAGE, & TEMPORARY BMPS	G-1	4					
HIGHWAY 50 IMPROVEMENTS	C-1	5					
DOUGLAS BLVD DRAINAGE	C-2	6					
DOUGLAS BLVD SECTIONS	C-3	7					
FRIEDHOFF DR DRAINAGE	C-4	8					
REVEGETAION PLAN	R-1	9					
DETAILS	D-1	10					
DETAILS	D-2	11					
DETAILS	D-3	12					
DETAILS	D-4	13					
DETAILS	D-5	14					



NOT TO SCALE

ENGINEER:

MEGHAN C. KELLY, P.E.
REGISTERED CIVIL ENGINEER
STATE OF NEVADA, NO. 20851
NEVADA TAHOE CONSERVATION DISTRICT
400 DORLA CT.
ZEPHYR COVE, NV 89448
(775) 586-1610

APPROVAL:

<u>APF</u>

ERIK NILSSEN, P.E.
DOUGLAS COUNTY ENGINEER

DATE

90% DESIGN PLANS
NOT FOR CONSTRUCTION



NEVADA

OF STATE LANDS

SCALE: 1" = 150'



PITTMAN TERRACE WATER QUALITY
IMPROVEMENT PROJECT

DESIGNED/DRAWN
MBG/CFW
CHECKED
MCK
DATE
03/2018
SCALE
AS SHOWN

PROJECT
PT
SHEET

GENERAL NOTES

- ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF (NDOT). IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("ORANGE BOOK" OR "STANDARD SPECIFICATIONS"). ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE AMENDED SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL TECHNICAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, CONSTRUCTION OR INSTALLATIONS ASSOCIATED WITH THIS PERMIT, THE PERMITTEE SHALL NOTIFY THE DOUGLAS COUNTY INSPECTOR AT (775)782-62370F INTENT TO BEGIN AND REQUEST/SCHEDULE PRECONSTRUCTION MEETING AT THE PROJECT SITE WITH DOUGLAS COUNTY CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED ABOVE SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- CONTRACTOR'S SHALL COMPLY WITH THE REQUIREMENTS TO OBTAIN THE NECESSARY SITE IMPROVEMENT PERMITS AND SHALL COMPLY WITH THE SITE IMPROVEMENT PERMIT CONDITIONS AS FOUND ON THE BACK OF THE PERMIT FORM.
- THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES
- THE CONTRACTOR IS ADVISED THAT DAMAGE TO PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEERING INSPECTOR. UNLESS OTHERWISE APPROVED BY THE COUNTY, ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED. TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES AND SYSTEMS AS A RESULT OF CONTRACTOR'S ACTIVITIES 29. REINFORCING STEEL SHALL BE GRADE 40 AND 1.5 INCHES MINIMUM CLEAR COVER. SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON SITE SHOWING "AS CONSTRUCTED" CHANGES. UPON COMPLETION, CONTRACTOR SHALL SUPPLY NDOT, DOUGLAS COUNTY, AND NTCD A SET OF "AS BUILT" PLANS. SEE SPECIAL
- MOBILIZATION/STAGING AND STORAGE AREAS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE 32. GRATES SHALL BE PLACED OUTSIDE OF THE PEDESTRIAN TRAVELED WAY. GRATE OPENINGS SHALL NOT EXCEED 0.5 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPS.
- TO CONTROL EROSION AND WATER POLLUTION DURING THE CONSTRUCTION OF THE PROJECT. THE BMP MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION FOR THE DURATION OF THE CONSTRUCTION.

 34. FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS, SCARIFIED, AND BE APPROVED BY THE ENGINEER OF DURING CONSTRUCTION ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL, AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES. SILT FENCE OR SEDIMENT LOGS WILL BE REQUIRED AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS OR STAKED IN THE FIELD BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL MEET OR EXCEED TRPA REQUIREMENTS.
- ALL EXISTING VEGETATION SHALL BE PRESERVED UNLESS SPECIFICALLY IDENTIFIED BY THE ENGINEER FOR REMOVAL. BMP'S TO PROTECT VEGETATION SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY TRPA. CONTRACTOR TO REVEGETATE ANY AREAS OUTSIDE THE DISTURBED AREA SHOWN ON THE PLANS WITH PLANTS APPROVED BY TRPA AT THEIR OWN EXPENSE.
- O. NTCD WILL PROVIDE ONE SET OF CONSTRUCTION STAKES AT NTCD'S EXPENSE. ADDITIONAL CONSTRUCTION STAKES WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. LIMITS FOR ALL ITEMS OF WORK SHALL BE STAKED IN THE FIELD BY THE ENGINEER. THESE LIMITS AND THE RESULTING TREATMENT LENGTH/AREAS MAY VARY FROM THOSE SHOWN ON THE DRAWINGS. PAYMENT FOR ITEMS OF WORK WILL BE MADE FOR THE AMOUNT AUTHORIZED BY THESE FIELD STAKED LIMITS AND THE SPECIAL TECHNICAL PROVISIONS.
- UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. WHERE EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND ALL AFFECTED UTILITY COMPANIES TO LOCATE ALL BURIED UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF UTILITIES AS REQUIRED BY THE WORK. WHENEVER CONNECTIONS TO OR CLEARANCE FROM ANY UTILITY IS REQUIRED, THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, SIZE AND MATERIAL OF THE UTILITY PRIOR TO CONSTRUCTION. NOTE THAT MANY OF THE UTILIZES ARE PRIVATE AND MAY NOT BE IDENTIFIED BY USA.
- ASPHALT REPLACEMENT SHALL INCORPORATE A 4% ±1% CROSS SLOPE BETWEEN THE SAWCUT AND THE NEW ROADSIDE TREATMENT. NEW ROADSIDE FLOW CONVEYANCES SHALL INCORPORATE SUCH GRADE AS NECESSARY TO GUARANTEE WATER CONTINUES TO FLOW IN THE PRESENT DIRECTION, WITHOUT PONDING OR BREAKOUTS.
- 13. ANY DAMAGE DONE BY THE CONTRACTOR OR HIS SUBCONTRACTORS TO PRIVATE PROPERTY AND/OR OUTSIDE OF THE NOTED LIMITS OF WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND/OR HIS SUBCONTRACTORS.
- 4. THE CONTRACTOR WILL PROVIDE INITIAL TESTING AND INSPECTION OF WORK AND MATERIAL AT CONTRACTOR'S EXPENSE. THE COST OF REMOVAL AND/OR REPLACEMENT OF ANY DEFECTIVE WORK OR MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF RETESTING AND/OR INSPECTING OF REPLACED WORK AND MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. SUCH COSTS WILL BE DEDUCTED FROM ANY MONEYS DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
- 5. STANDARD WORK DAYS SHALL BE MONDAY THROUGH FRIDAY. SATURDAY AND SUNDAY MAY BE WORKED ON OCCASION ONLY TO MAKE UP FOR WEATHER DELAYS OR OTHER SCHEDULE DELAYS WITH TRPA APPROVAL. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- . NOISE SHALL BE REDUCED BY THE MANDATORY USE OF MUFFLERS ON ALL CONSTRUCTION VEHICLES AND EQUIPMENT. WHERE FEASIBLE, SOLENOIDAL PAVEMENT BREAKERS WILL BE USED IN LIEU OF AIR POWERED JACK HAMMERS. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- . ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS. ALL OPERATIONS SHALL COMPLY WITH PERMIT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. THE CONTRACTOR WILL PROVIDE SWEEPING PER SPECIFICATION.
- 18. ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED PER TRPA.
- 19. SOIL 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.
- 20. 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.
- 21. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREA WHENEVER POSSIBLE. NO MATERIAL SHALL BE STORED IN ANY STREAM ENVIRONMENT ZONE (SEZ) OR WET AREA.
- 22. ONLY EQUIPMENT OF A SIZE AND TYPE THAT WILL DO THE LEAST AMOUNT OF DAMAGE, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL BE USED.
- 23. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.

25. ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH

- 24. NO VEHICLE OR HEAVY EQUIPMENT SHALL BE ALLOWED IN A STREAM ENVIRONMENT ZONE OR WET AREA EXCEPT AS AUTHORIZED BY TRPA.
- 26. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO. OR ACCUMULATE IN. THE NDOT RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR

CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.

27. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LONGER THAN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.

- NEVADA TAHOE CONSERVATION DISTRICT (NTCD), DOUGLAS COUNTY, & THE NEVADA DEPARTMENT OF TRANSPORTATION 28. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMP'S WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT, SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OF SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.q. AND THE PROJECT
 - 25. TRAFFIC CONTROL AND LANE CLOSURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PER NDOT STANDARD SPECIFICATIONS OR DOUGLAS COUNTY STANDARDS WHERE APPICABLE. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN ALL APPICABLE PERMITS. ANY ROAD CLOSURES REQUIRE THE CONTRACTOR TO OBTAIN A ROAD CLOSURE PERMIT FROM DOUGLAS COUNTY.
 - 26. ACCESS TO HOMES AND PUMP STATIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION
 - 27. IF A FIRE HYDRANT IS NEEDED TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT METER FROM DOUGLAS COUNTY PUBLIC WORKS OR APPLICABLE WATER PURVEYOR AND PAY ALL APPLICABLE FEES AND CHARGES.
 - 28. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI), MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SECTION 202.

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

MANHOLE

MAXIMUM

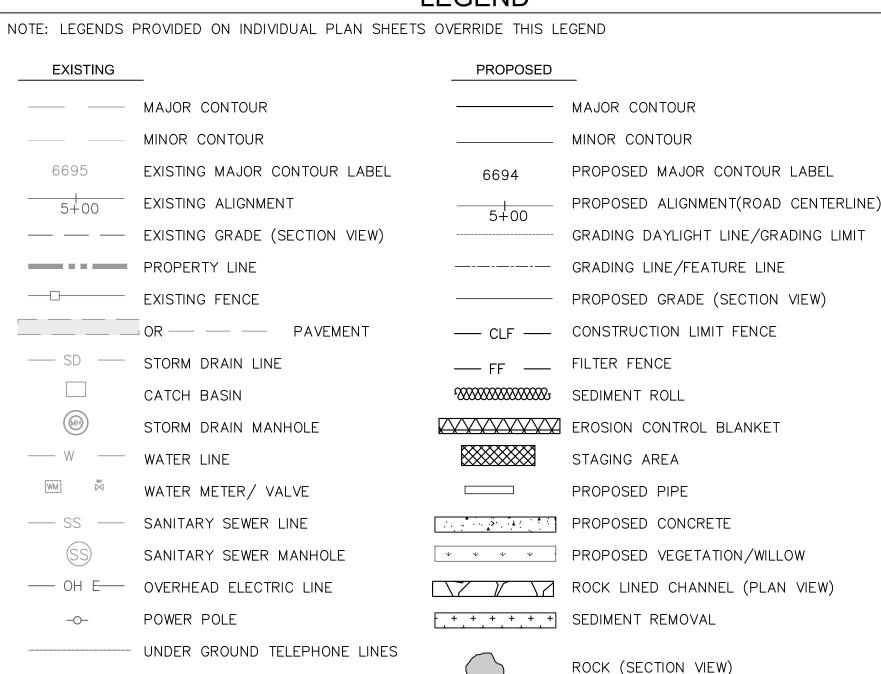
- 30. ALL STORM DRAIN PIPE AND STRUCTURES SHALL BE CLEANED OF SEDIMENT AND DEBRIS PRIOR TO ISSUANCE OF A NOTICE OF COMPLETION OR CERTIFICATE OF OCCUPANCY.
- 31. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE STORM DRAIN UTILITY.
- INCHES IN WIDTH OR 4 INCHES IN LENGTH. GRATES SHALL BE TRAFFIC RATED AND ADA COMPLIANT.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY BMP MEASURES AT LOCATIONS WHERE NEEDED 33. SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, OR AS DETERMINED BY THE GEOTECHNICAL
 - RECORD PRIOR TO THE PLACING OF FILL.

ABBREVIATIONS

NOT ALL ABE	BREVIATIONS LISTED ARE USED IN THESE PLANS		
A.B.	AGGREGATE BASE	MDD	MAXIMUM DRY DENSITY
AC.	ACRE	MJ	MECHANICAL JOINT
AC OR A.C.	ASPHALT CONCRETE OR ASBESTOS CEMENT AT	MI. MIN.	MILE MINIMUM
APPROX.	APPROXIMATE	MISC.	MISCELLANEOUS
AVG.	AVERAGE	N	NORTH
AWWA	AMERICAN WATER WORKS ASSOCIATION	NAC	NEVADA ADMINISTRATIVE CODE
BC	BEGIN CURVE	N.I.C.	NOT IN CONTRACT
BGN	BEGIN	NDOT NTCD	NEVADA TALLOE CONSERVATION DISTRICT
C&G CATV	CURB AND GUTTER CABLE TELEVISION	N.T.S.	NEVADA TAHOE CONSERVATION DISTRICT NOT TO SCALE
C.B.	CATCH BASIN	NO.	NUMBER
СВМ	CHANNEL BED MATERIAL	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLF	CONSTRUCTION LIMIT FENCE	OFF OG	OFFSET ORIGINAL GRADE
CLR. CO.	CLEAR CLEAN OUT	OH(E/T)	OVERHEAD ELECTRIC OR TELEPHONE LINES
CO. CONST.	CONSTRUCT	±	PLUS OR MINUS
CF	CUBIC FEET	PT.	POINT
CMP	CORRIGATED METAL PIPE	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT
CMAP	CORRIGATED METAL ARCH PIPE	PC PI	POINT OF CURVATURE POINT OF INFLECTION
CY DBH	CUBIC YARD DIAMETER AT BREAST HEIGHT	PIP	PROTECT IN PLACE
DEG	DEGREE(S)	PVC	POLYVINYL CHLORIDE
D.G.	DECOMPOSED GRANITE	PVMT	PAVEMENT
DI	DROP INLET	POC	POINT ON CURVE
DIA.	DIAMETER	POS	POSITIVE
DR DWG	DIMENSION RATIO DRAWING	PRC	POINT OF REVERSE CURVE
DW, DWY	DRIVEWAY	PSI PL	POUNDS PER SQUARE INCH PROPERTY LINE
EA.	EACH	PO	PUSH ON
EASE.	EASEMENT	PUE	PUBLIC UTILITY EASEMENT
EG EL FO	EXISTING GRADE	R	RADIUS
ELEC EP	ELECTRIC EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
ELEV. OR EL		REVEG RLC	REVEGATATION ROCK LINED CHANNEL
EC St. St. 22	END CURVE	RT,R	RIGHT
EWEF	EACH WAY EACH FACE	R/W, ROW	RIGHT-OF-WAY
EX.	EXISTING	S	SLOPE OR SOUTH
FG FH	FINISH GRADE FIRE HYDRANT	SD	STORM DRAIN
	FLANGE COUPLER ADAPTER	SDMH	STORM DRAIN MANHOLE
	FLARED END SECTION (METAL)	SDR SF	STANDARD DIMENSION RATIO SQUARE FOOT/FEET
FF	FILTER FENCE	SHT	SHEET
FL	FLOWLINE	STA	STATION
FLG FT.	FLANGED FOOT, FEET	STD	STANDARD
FTG	FOOTING	SS	SANITARY SEWER, STAINLESS STEEL
FV	FLUSH VALVE	SSCO. SSMH	SANITARY SEWER CLEAN OUT SANITARY SEWER MANHOLE
•	DEGREE	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS
G	GAS	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GV GB	GATE VALVE GRADE BREAK	SY	SQUARE YARD
HDPE	HIGH DENSITY POLYETHYLENE	TBC	TOP BACK OF CURB
HDPE-NP	NON-PERFORATED HIGH DENSITY POLYETHYLENE	TOC TRPA	TOP OF CURB TAHOE REGIONAL PLANNING AGENCY
HDPE-P	PERFORATED HIGH DENSITY POLYETHYLENE	TW	TOP OF WALL
HP HOR., HORIZ.	HIGH POINT	(TYP)	TYPICAL
HWY	HIGHWAY	ÜĞE	UNDERGROUND ELECTRIC LINES
IN.	INCH	UGT	UNDERGROUND TELEPHONE LINES
ΙE	INVERT ELEVATION	VC VG	VERTICAL CURVE VALLEY GUTTER
IRR.	IRRIGATION	VG VPC	VERTICAL POINT OF CURVATURE
L	LEFT	VPI	VERTICAL POINT OF INFLECTION
LEN. LF	LENGTH LINEAR FEET	VPT	VERTICAL POINT OF TANGENT
LID	LOW IMPACT DEVELOPMENT	W	WATER
LP	LOW POINT	WL W	WATERLINE WEST
LS	LUMP SUM	W/	WITH
MH	MANHOLE	•••/	

WATER METER

LEGEND



— UG FO— UNDERGROUND FIBER OPTIC LINES ROCK DISSIPATER PROJECT BOUNDARY PROPOSED FENCE (TYPE SPECIFIED ON

SECTION OR DETAIL IDENTIFICATION

- SYMBOL FOR DETAIL ON THE SAME

OR — CONCRETE CONTROL POINT BUILDING

PRIVATE DRIVEWAY NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN SECTION OR DETAIL IDENTIFICATION ROCK LINED CHANNEL

ASSESSOR PARCEL NUMBER JOHN A. SMITH OWNER (PRIVATE LOT)

EXISTING ROCK WALL

— OH T— OVERHEAD TELEPHONE LINES

DRAINAGE

FIRE HYDRAN

UNDERGROUND GAS LINES

UTILITIES

CHARTER COMMUNICATIONS, (775) 588-1077 CABLE TELEVISION NATURAL GAS ELECTRIC NV ENERGY, (775) 834-4444 DOUGLAS COUNTY PUBLIC WORKS (775) 782-9989 STORM DRAIN SEWER DOUGLAS COUNTY SEWER IMPROVEMENT DISTRICT (775) 588-3558 WATER PRIVATE SYSTEMS PHONE FRONTIER (775) 782-0966 USA DIGS (800) 642-2444 OR 811

HORIZONTAL AND VERTICAL PROJECTION

VERTICAL CONTROL IS DATUM NAVD 88 (US FEET); HORIZONTAL CONTROL IS HORIZONTAL DATUM NAD 83 STATE PLANE COORDINATE SYSTEM NEVADA ZONE WEST (U.S. FEET).

90% DESIGN PLANS NOT FOR CONSTRUCTION

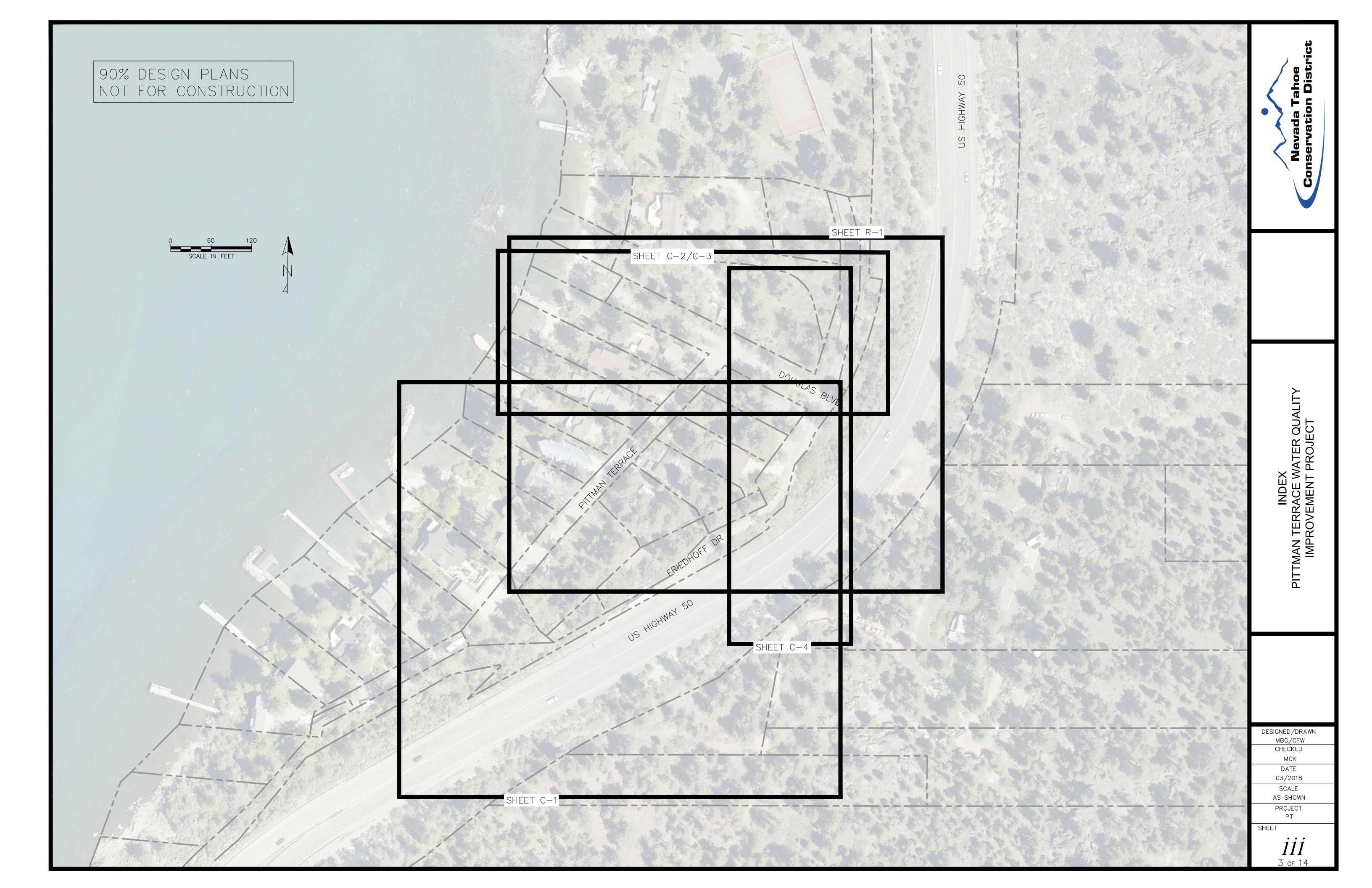
Q шшО RR/ MAN IMP

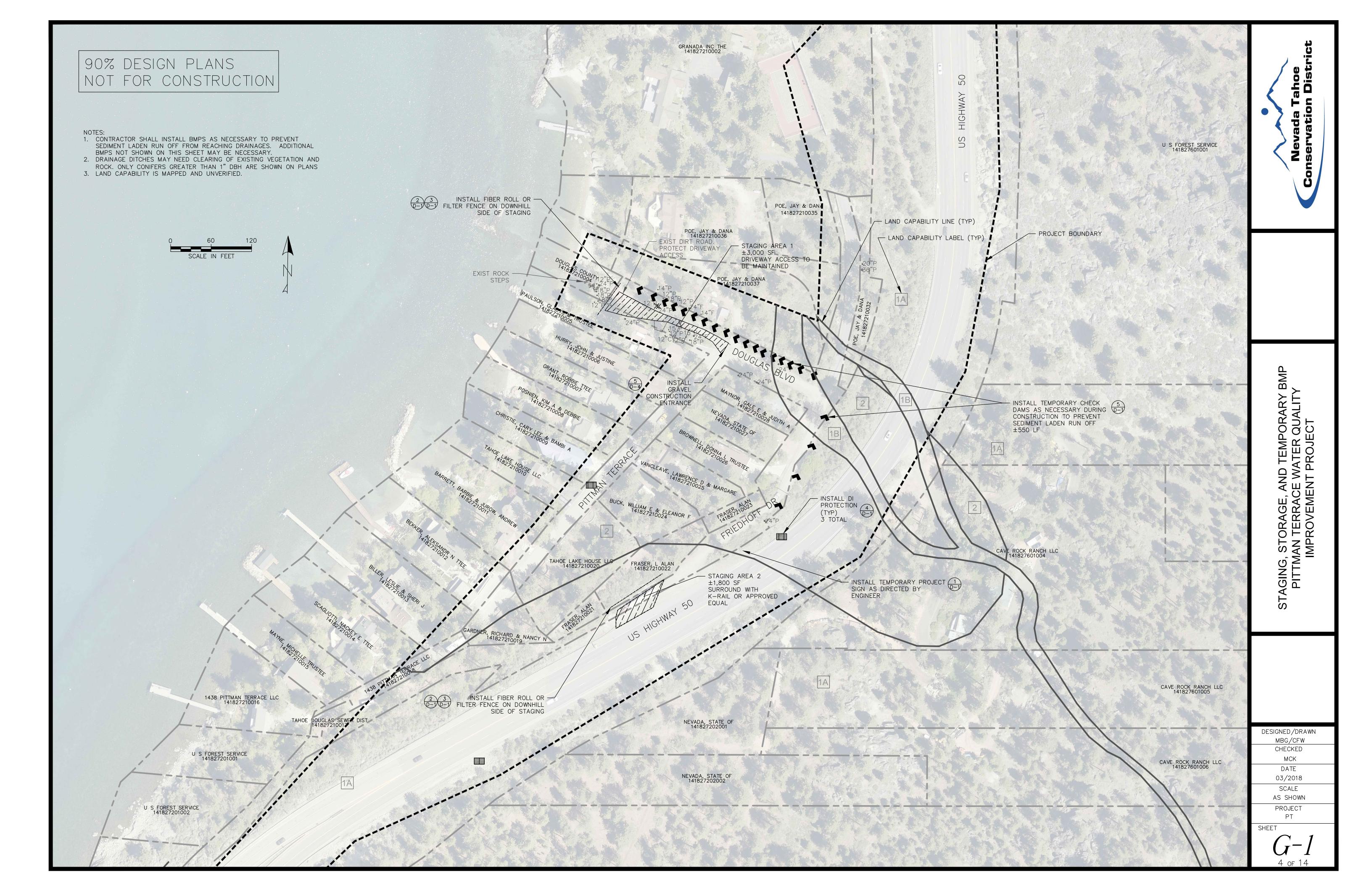
DESIGNED/DRAWN MBG/CFW CHECKED MCK DATE 03/2018 SCALE AS SHOWN

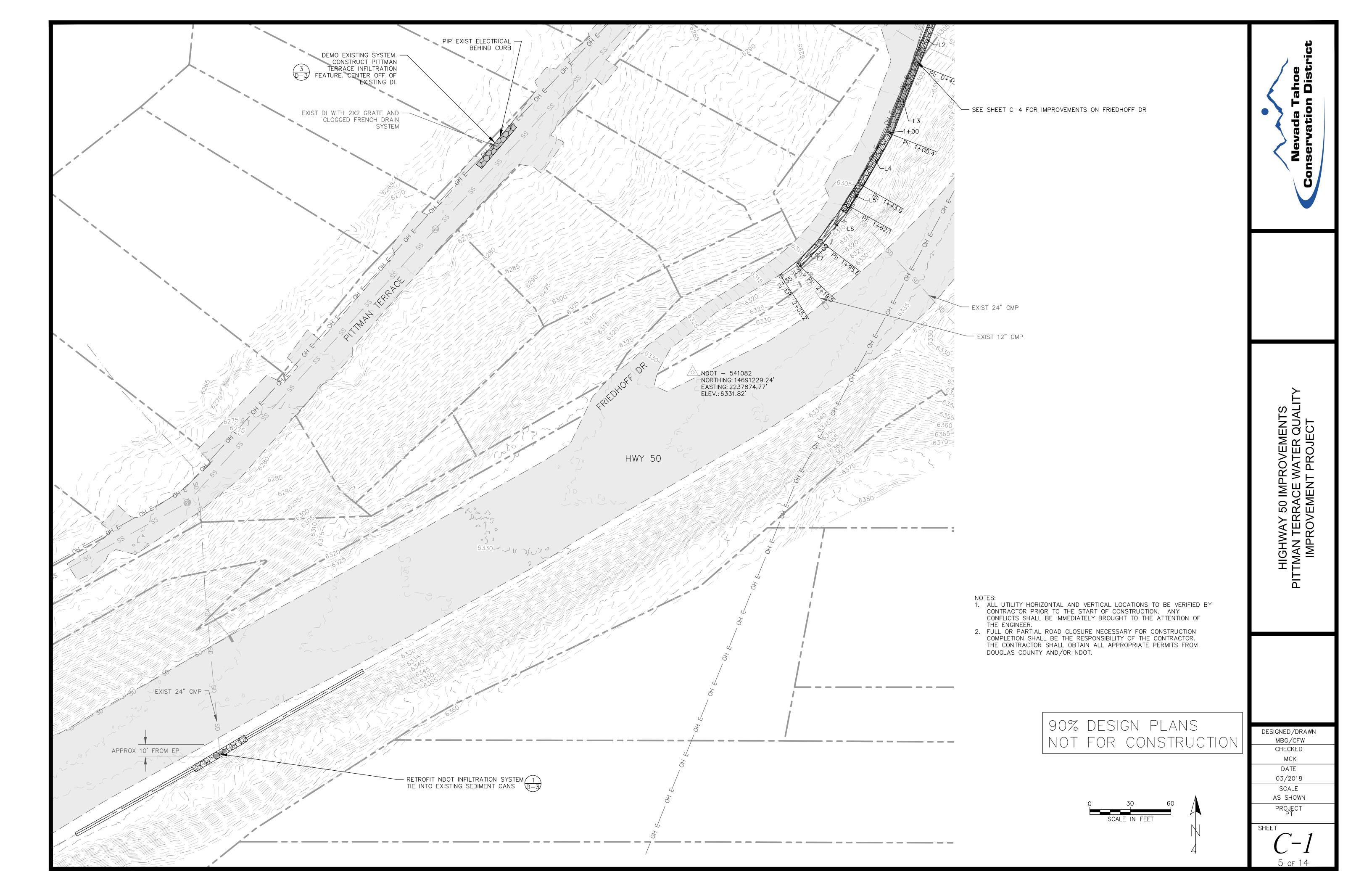
SHEET

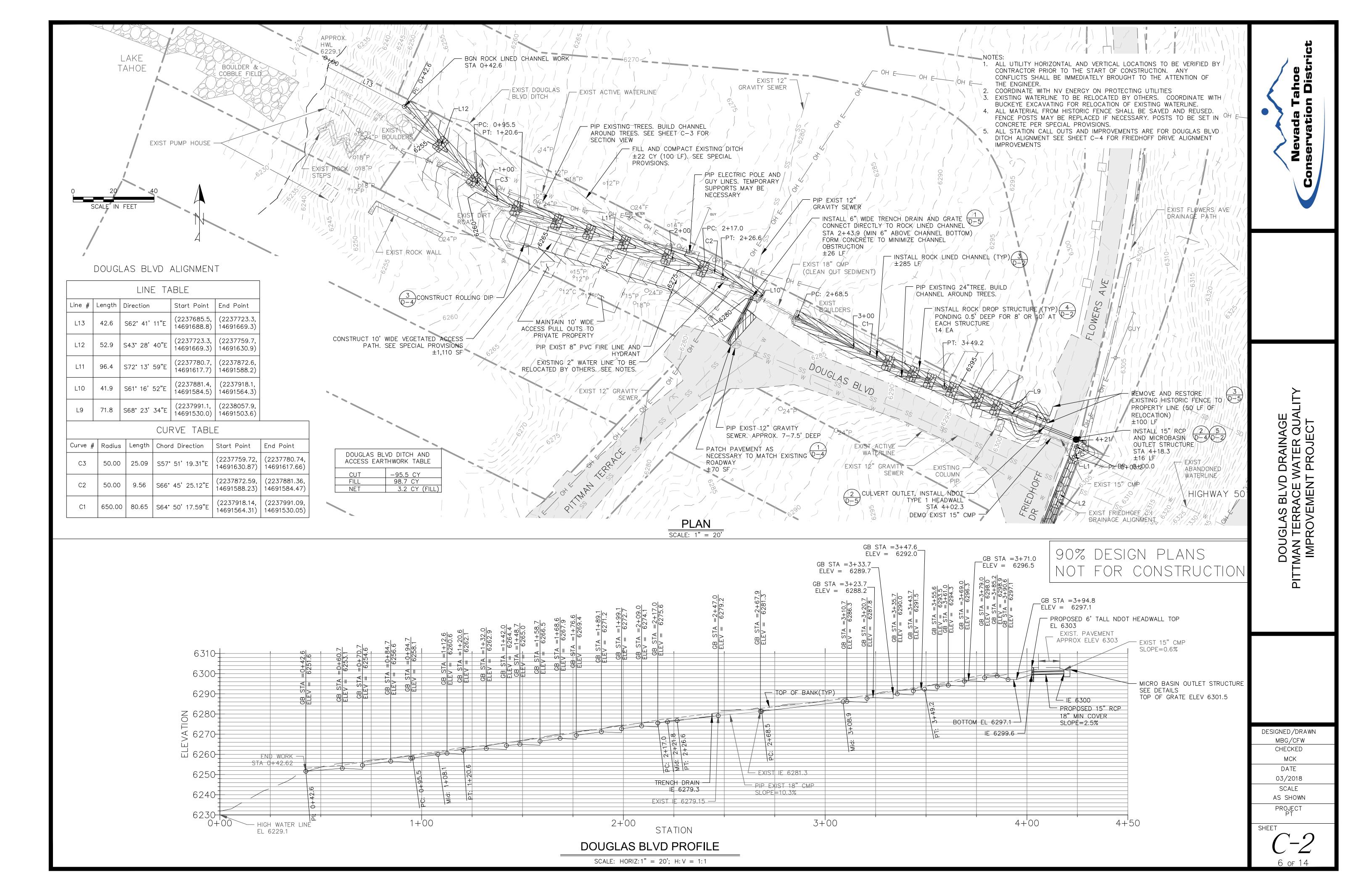
2 of 14

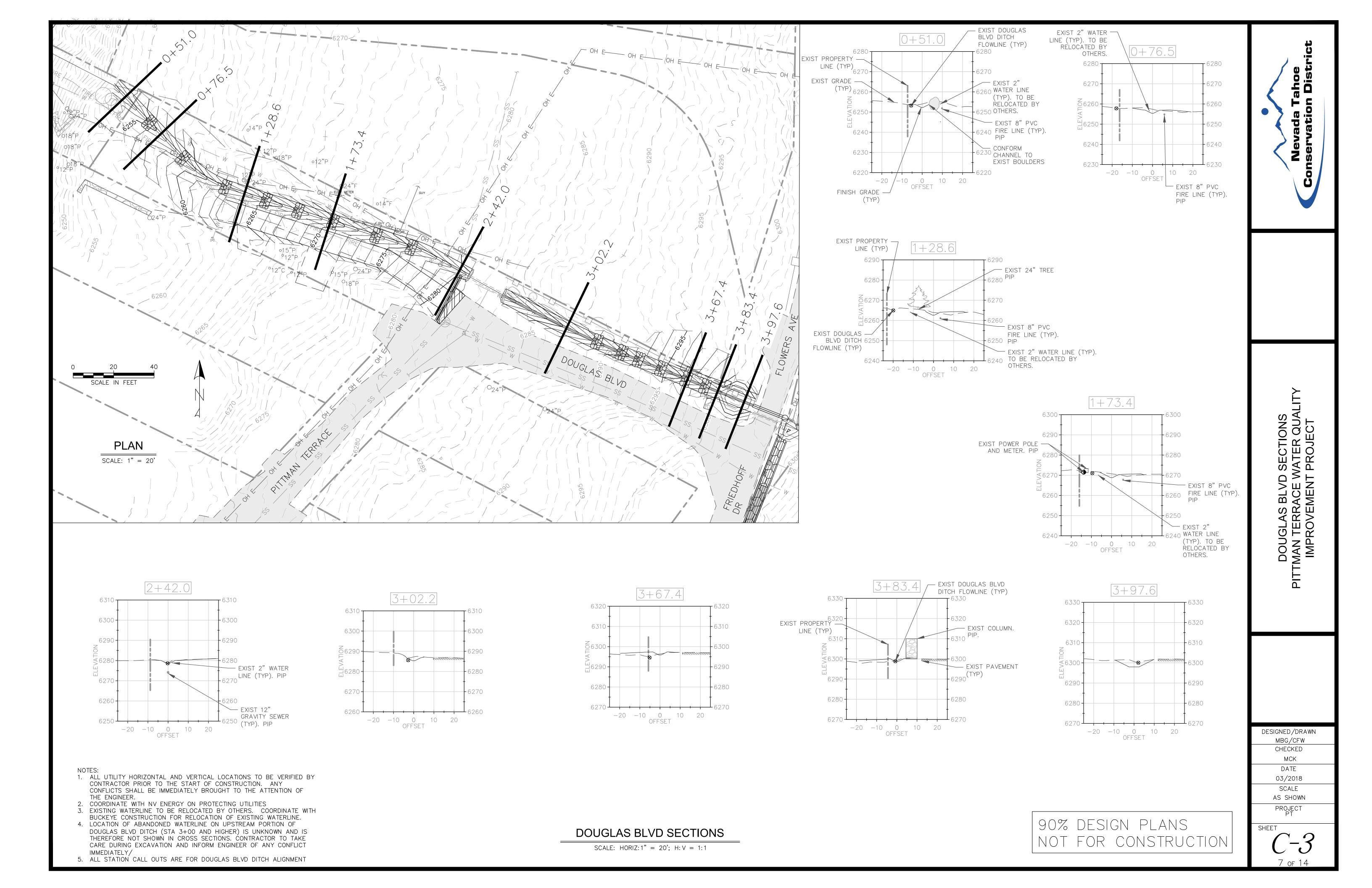
PROJECT

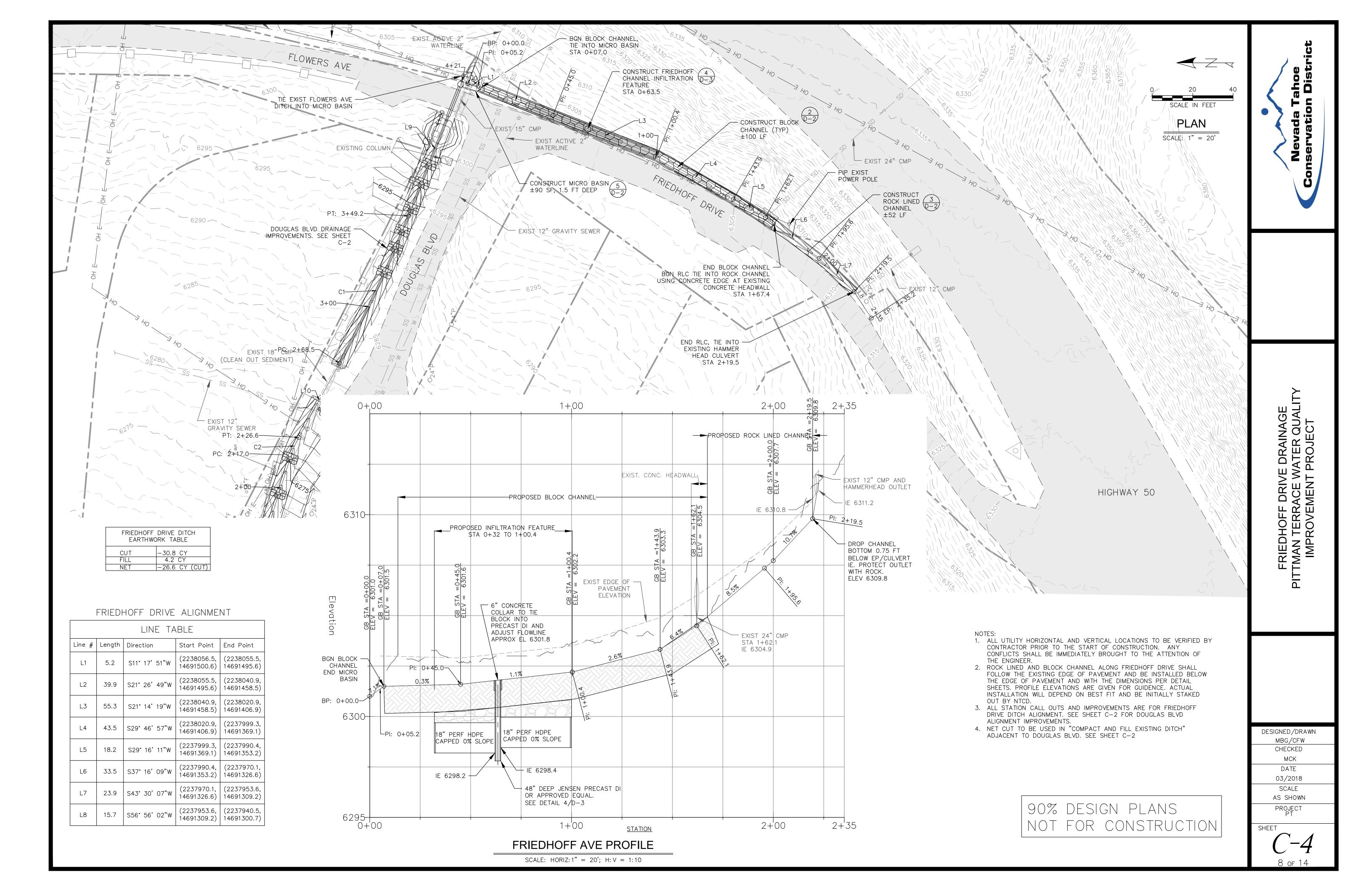


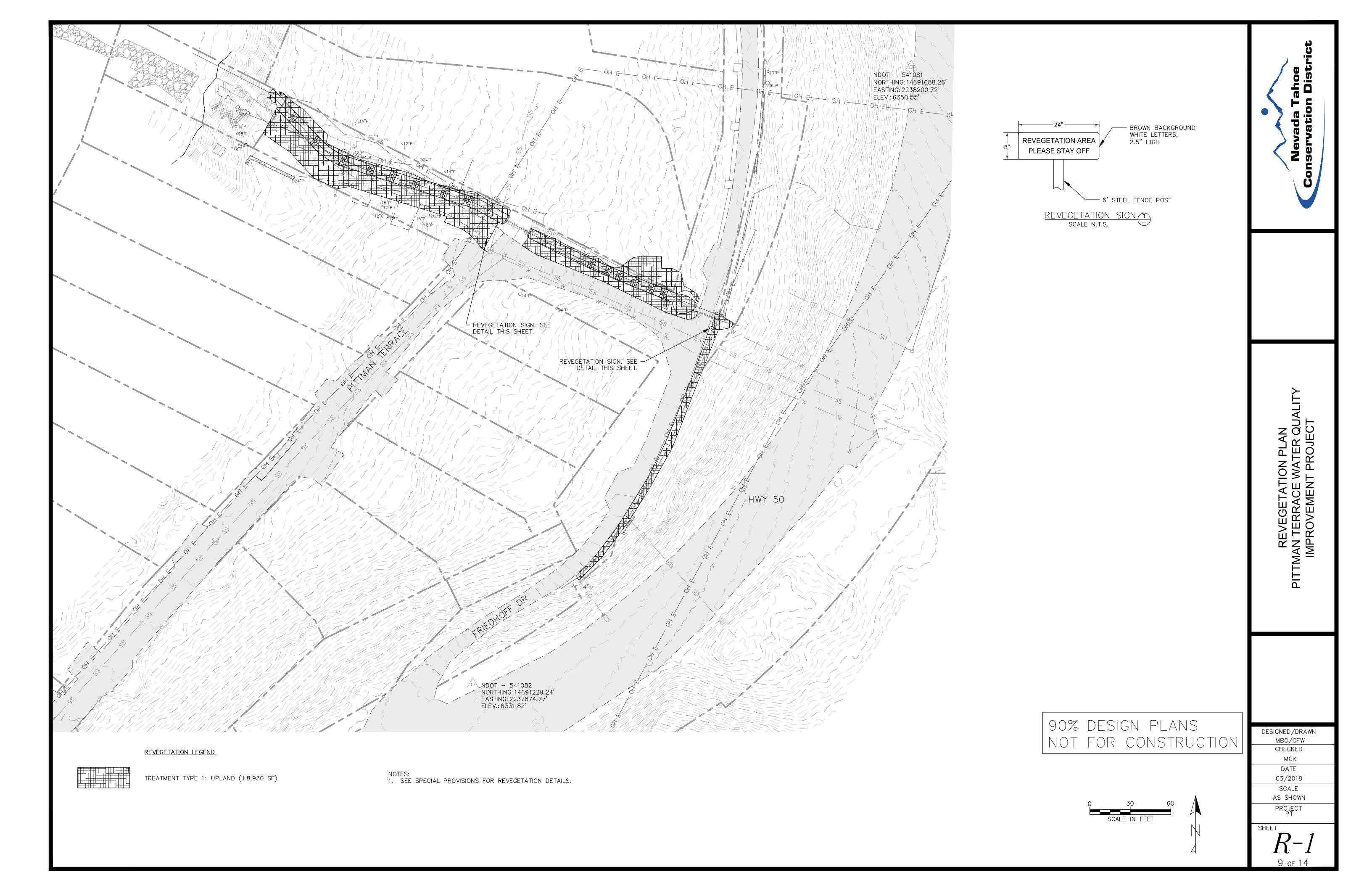


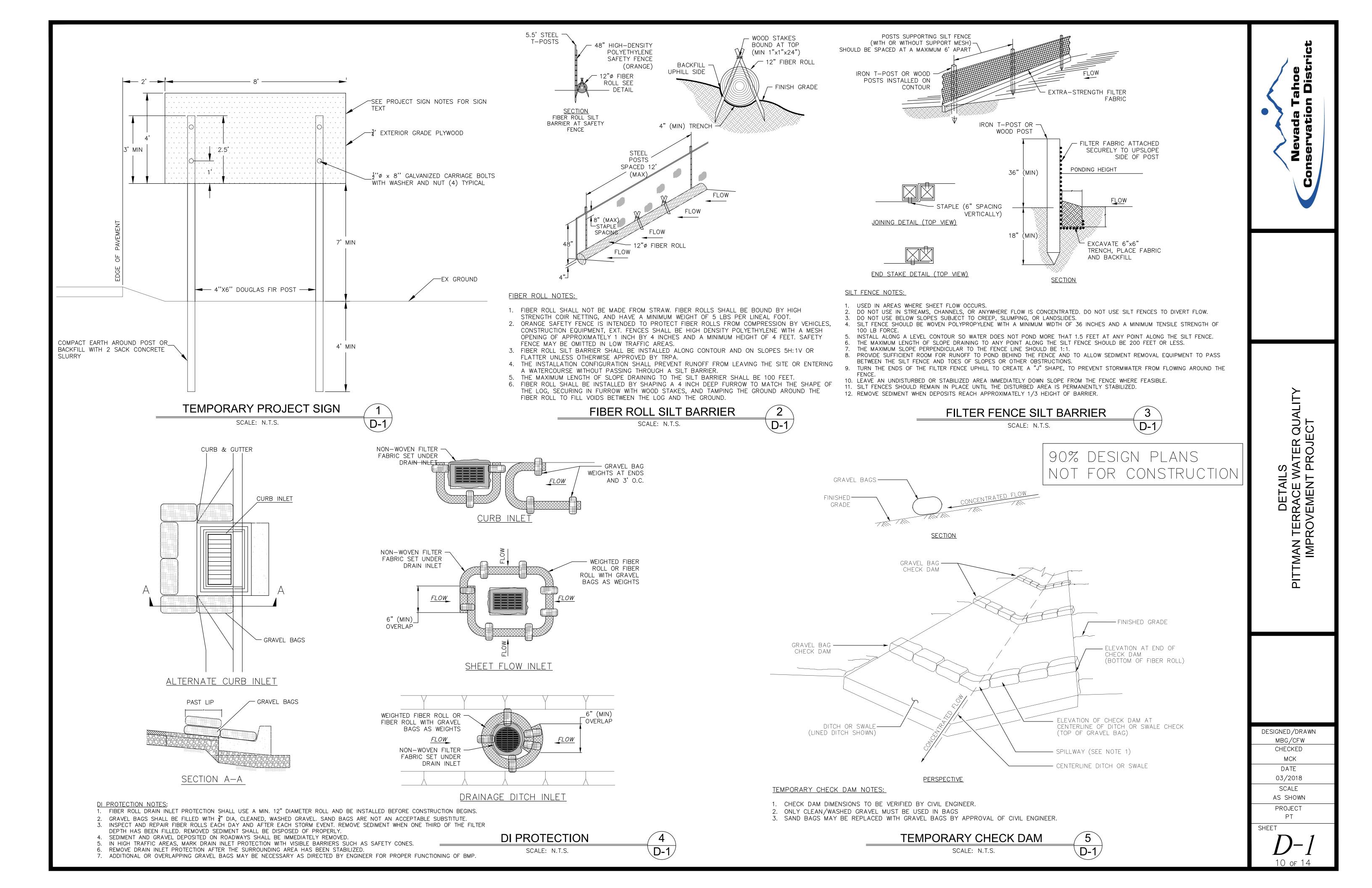


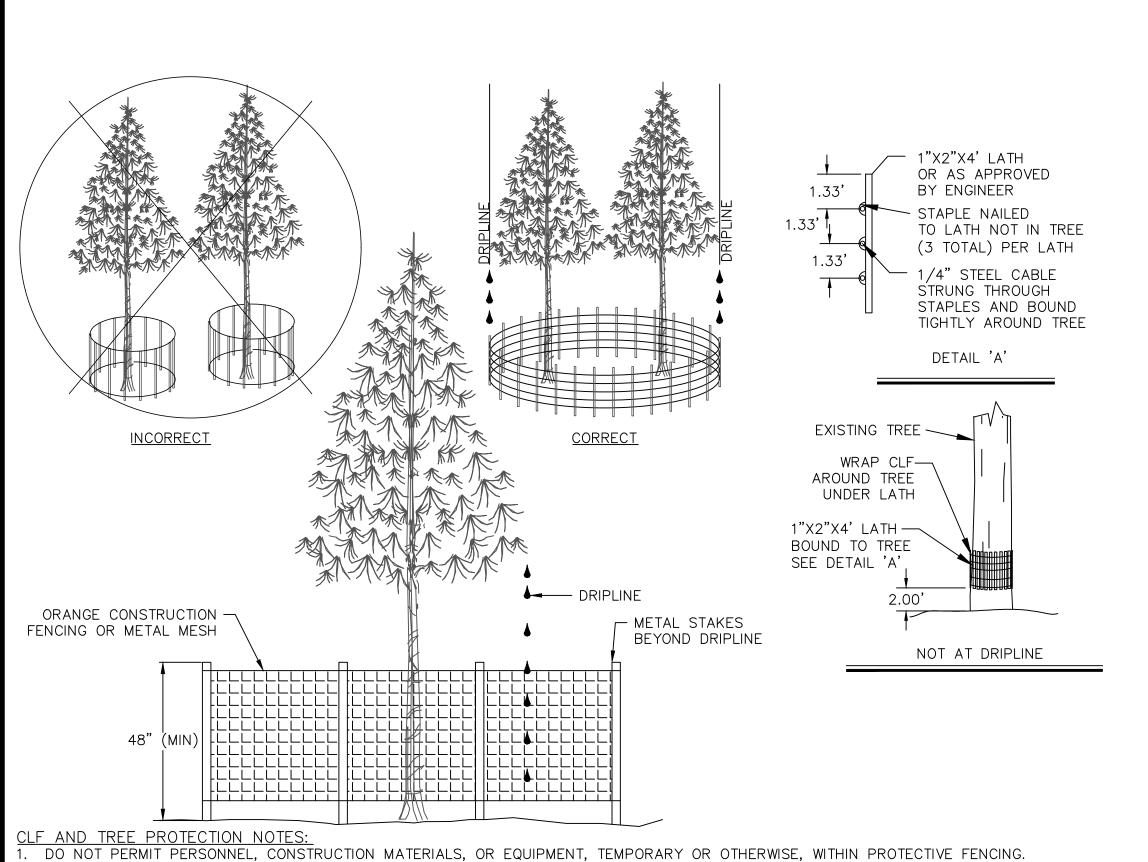












VEGETATION PROTECTION IS REQUIRED FOR ALL PROJECTS AS A CONDITION OF PROJECT APPROVAL. METAL OR WIRE MESH FENCING MAY BE REQUIRED.

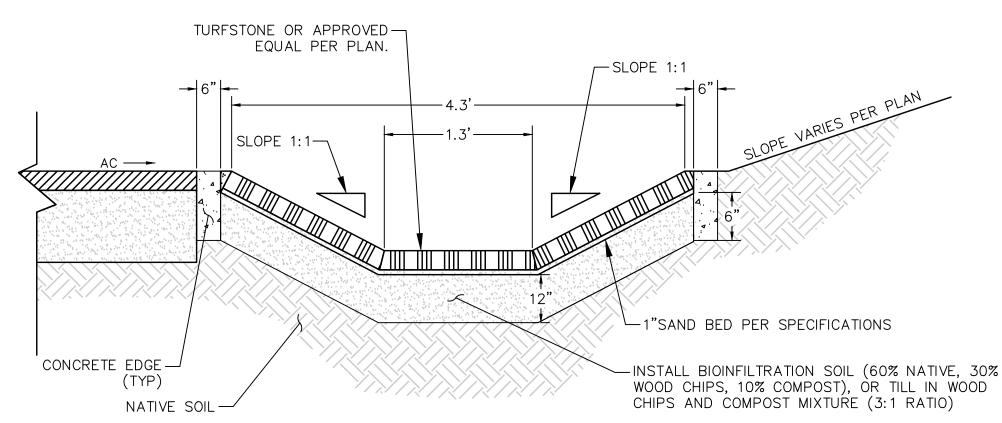
CALCULATE THE PROTECTIVE PERIMETER FOR SHIELDING LARGER SPECIMEN TREES MEASURING OVER 30" DBH AS FOLLOWS: COMPUTE THE PROTECTIVE RADIUS BY ADDING ONE FOOT, AS MEASURED OUT FROM THE TREE BOLE, FOR EVERY INCH IN DBH. (E.G. A TREE WITH A 30" DBH WOULD RECEIVE A 30' PROTECTIVE PERIMETER)

CLF AND TREE PROTECTION FENCE SHALL BE A MINIMUM OF 48" HIGH. 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 THE TRPA AT THE

THE DETAIL SHOWN IS FOR TREE PROTECTION. MATERIAL AND SPACING SHOWN ALSO APPLIES TO CLF.

QUANTITY OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.

CONSTRUCTION LIMIT AND TREE PROTECTION FENCING D-2 SCALE: N.T.S.



BLOCK CHANNEL NOTES:

1. SEE REVEGETATION PLAN AND SPECIAL PROVISIONS FOR REVEGETATION DETAILS

2. SAWCUT PAVEMENT ON FRIEDHOFF DRIVE TO CREATE SMOOTH TRANSITION BETWEEN ROAD AND CHANNEL. SEE STREET

CUT REPAIR DETAIL 1/D-4.

3. CONCRETE EDGE TO BE INSTALLED ON UPSTREAM AND DOWNSTREAM EDGE OF BLOCK CHANNEL AS WELL AS ALONG THE SIDES OF THE CHANNEL AS SHOWN..

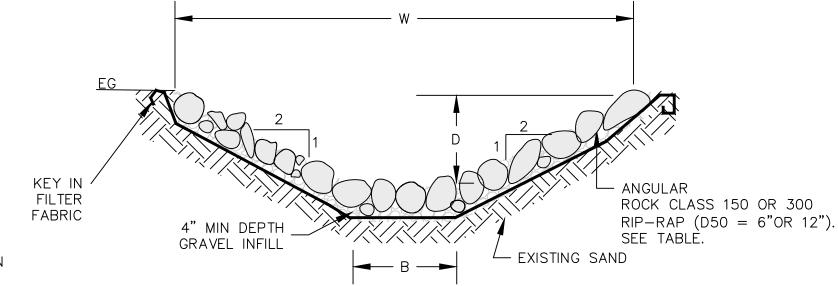
> **BLOCK CHANNEL** D-2 SCALE: N.T.S.

90% DESIGN PLANS FOR CONSTRUCTION

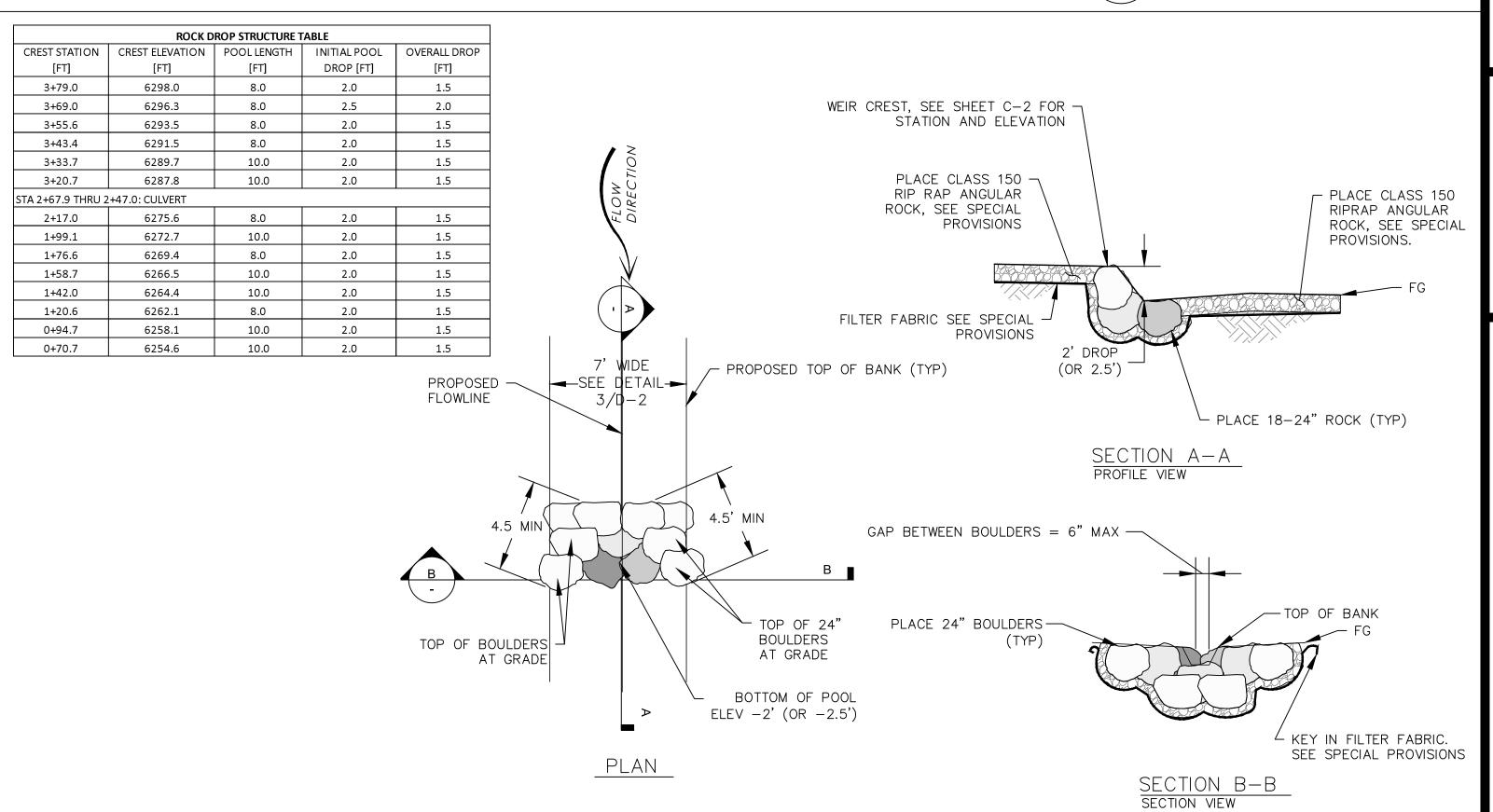
ROCK LINED CHANNEL TABLE									
ALIGNMENT	BGN STATION	END STATION							
NAME	[FT]	[FT]	W [FT]	B [FT]	D[FT]	RIP RAP			
FRIEDHOFF DR.	1+67.4	2+19.5	3.5	0.5	0.75	CLASS 150			
DOUGLAS BLVD.	2+67.9	3+85.2	7.0	1	1.5	CLASS 300			
DOUGLAS BLVD.	3+85.2	3+90.6	TRANSITION			CLASS 300			
DOUGLAS BLVD.	3+90.6	4+20.3	17.0	5.0	2.0	CLASS 300			

1. SEE REVEGETATION PLAN AND SPECIAL PROVISIONS FOR REVEGETATION DETAILS

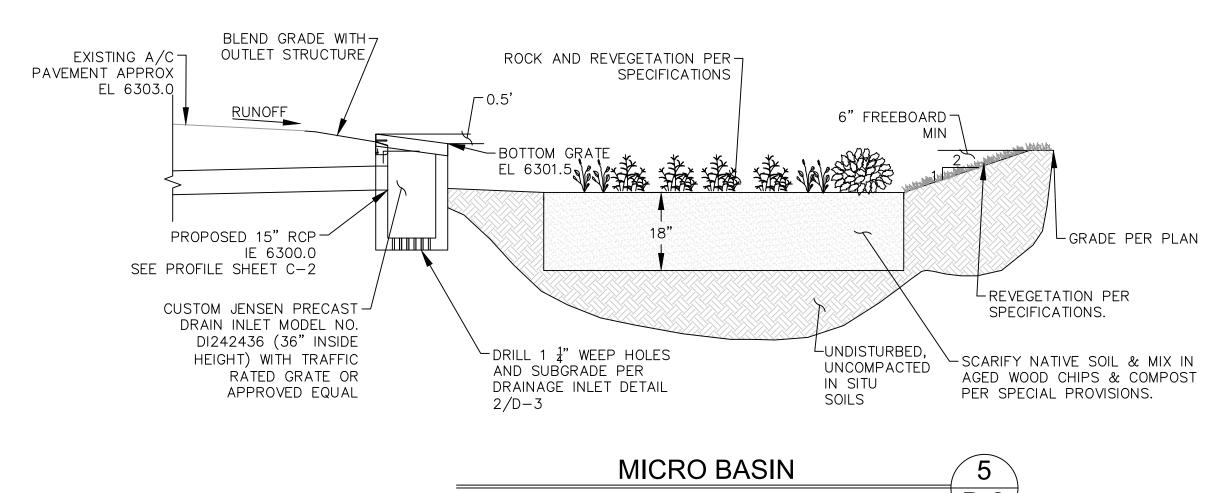
2. SAWCUT PAVEMENT ON FRIEDHOFF DRIVE TO CREATE SMOOTH TRANSITION BETWEEN ROAD AND CHANNEL. SEE STREET CUT REPAIR DETAIL 1/D-4.



ROCK LINED CHANNEL SCALE: N.T.S.





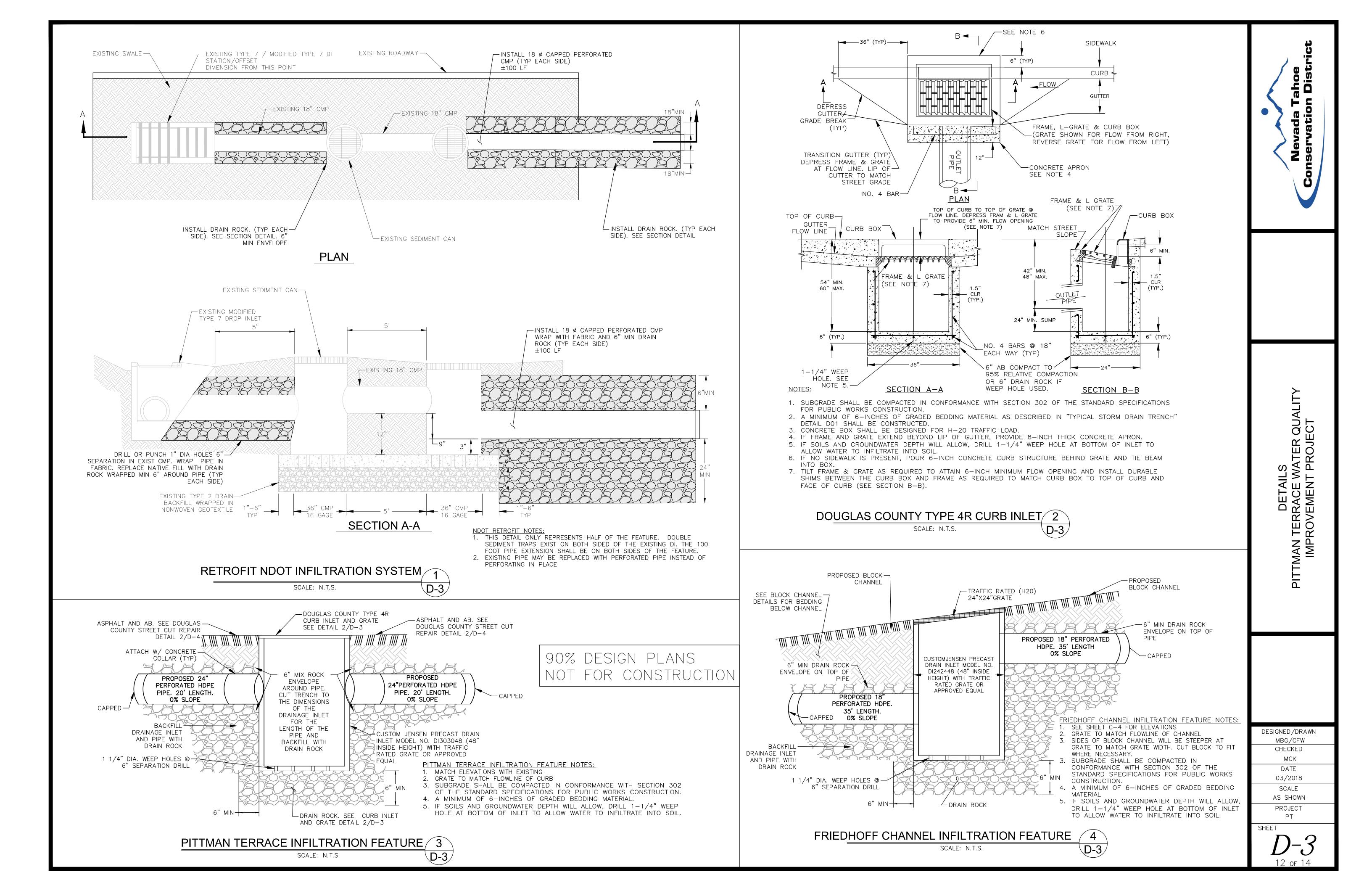


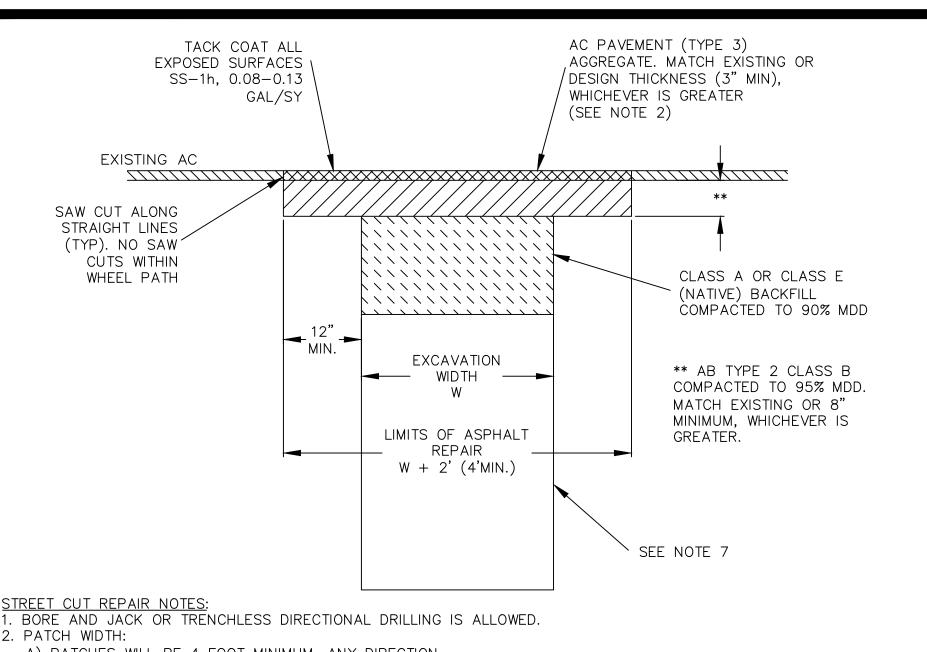
D-2/ SCALE: N.T.S.

QUALIT ECT ET AC DI TERRA TMAN

DESIGNED/DRAWN MBG/CFW CHECKED MCK DATE 03/2018 SCALE AS SHOWN **PROJECT** РΤ

SHEET





STREET CUT REPAIR NOTES:

A) PATCHES WILL BE 4 FOOT MINIMUM, ANY DIRECTION. B) IF EDGE OF PATCHING IS WITHIN 3 FEET OF EDGE OF PAVEMENT OR LIP OF GUTTER, REMOVE AND REPLACE AC PAVEMENT FROM PATCH TO THAT EDGE.

C) FOR PATCHING IN PAVEMENT SURFACE THAT IS LESS THAN FIVE (5) YEARS OLD OR PCI>80, ENTIRE TRAVEL LANE WIDTH FOR FULL LENGTH OF PAVEMENT PATCH SHALL RECEIVE 1.5" MILL AND OVERLAY. D) PLACE SLURRY SEAL OR CHIP SEAL ON STREETS WITH EXISTING SLURRY SEAL OR CHIP SEAL

SÚRFACE. SURFACE TOLERANCES FOR AC PAVEMENT REPAIR SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD

SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK). ASPHALT CONCRETE CONSTRUCTION MATERIALS AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS

FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK). . TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS

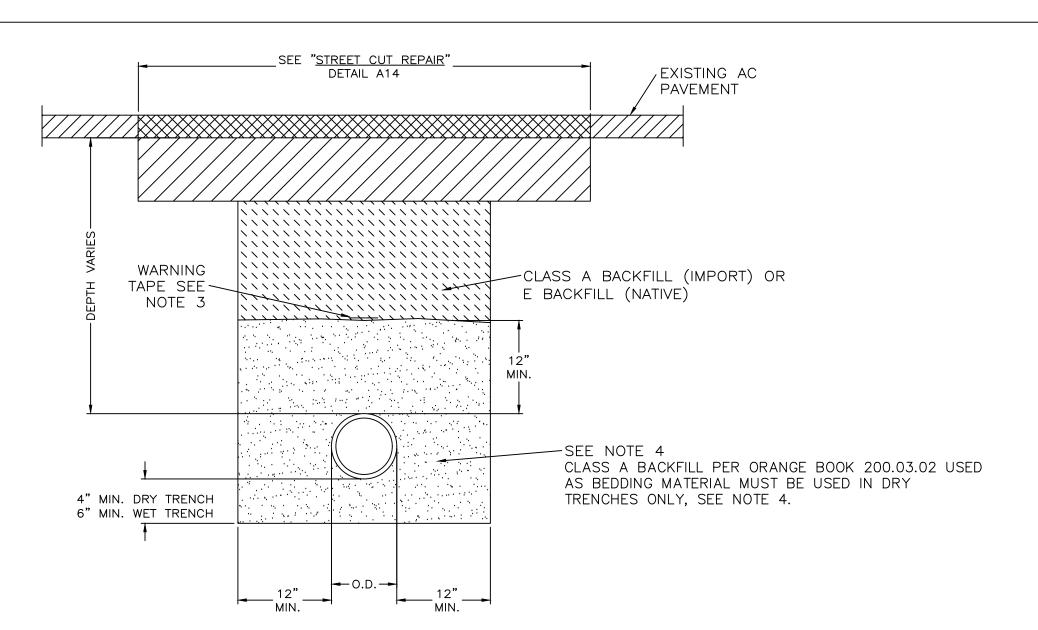
CONSTRUCTION (ORANGE BOOK).

. ASPHALT CEMENT SHALL BE PG 64—28 NV UNLESS OTHERWISE APPROVED BY DOUGLAS COUNTY ENGINEERING. WHEN PG 64—28 NV ASPHALT CEMENT IS NOT USED, NEW ASPHALT CONCRETE SURFACE SHALL BE FOG SEALED.

. FOR NON-COUNTY UTILITIES, PIPE ZONE BEDDING PER UTILITY PURVEYOR REQUIREMENTS. BACKFILL PER

COUNTY REQUIREMENTS.

DOUGLAS COUNTY STREET CUT REPAIR 1 D-4 SCALE: N.T.S.



THE FOLLOWING GRADED BEDDING MATERIAL MAY BE USED IN WET TRENCHES:

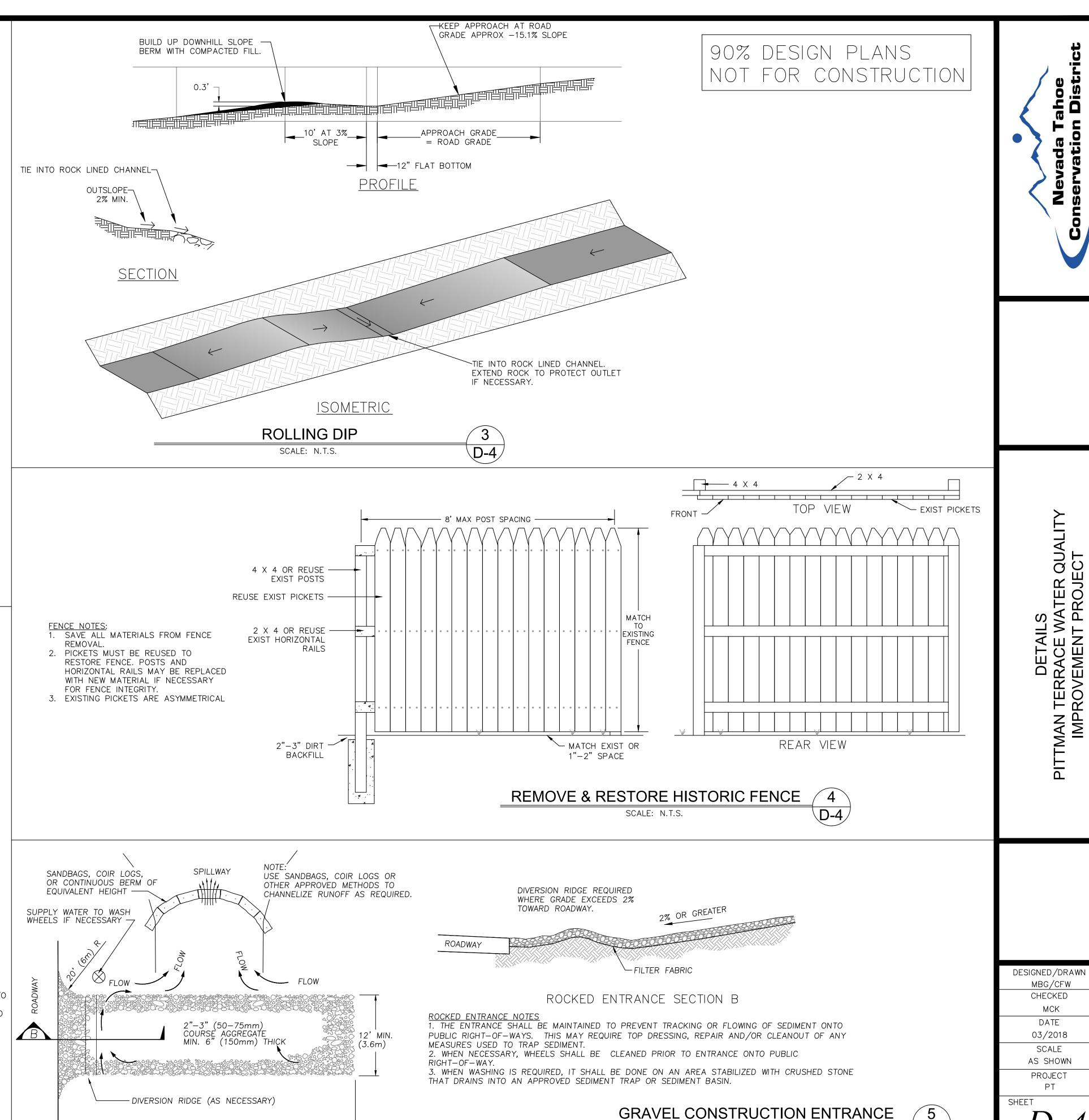
0-10%

U.S. STANDARD PERCENT BY WEIGHT PASSING SIEVE SIZE 100% 50-90% 30-70% 10-40% 5-25%

- STORM DRAIN TRENCH NOTES:

 1. ALL REQUIREMENTS OF THE STORM DRAIN UTILITY ORDINANCE MUST BE MET. CLASS A AND CLASS E BACKFILL AND BEDDING MATERIAL SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. BEDDING AND BACKFILL SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 305.10 OF THE STANDARD SPECIFICATIONS
- FOR PUBLIC WORKS CONSTRUCTION. 3. PLACE WARNING TAPE 1-FOOT ABOVE STORM DRAIN PIPE. WARNING TAPE SHALL READ "CAUTION STORM DRAIN MAIN".
- 4. CLASS A BACKFILL AS BEDDING MATERIAL PER ORANGE BOOK 200.03.02. COMPACT OR CONSOLIDATE TO PROVIDE PROPER SUPPORT OF PIPE. 5. UTILIZE WATER STOP FOR WET TRENCHES.

DOUGLAS COUNTY STORM DRAIN TRENCH 2 SCALE: N.T.S.



D-4

SCALE: N.T.S.

