

610/612 LAKE SHORE BLVD. SHORELINE STABILIZATION PROJECT

PROJECT INFORMATION

OWNERS: GREG BUI
PO BOX 7172
STATLINE, NV 89449

WHITNEY STALKER
610 LAKE SHORE BLVD
ZEPHYR COVE, NV 89448

PERMITS: GORDON CONSULTING INC.
ATTN: JENNIFER QUASHNICK
297 KINGSBURY GRADE, SUITE 1185
STATLINE, NV 89449
(530) 577-4233

ENGINEER: FERRELL CIVIL ENGINEERING
ATTN: TIM FERRELL
P.O. BOX 361
TAHOE VISTA, CA 96148
(530) 546-2752

PROJ. LOCATION: 610/612 LAKE SHORE BLVD.
ZEPHYR COVE, NV 89448

SHEET INDEX:

T1 - TITLE SHEET/SITE PLAN
C1 - PROPOSED SHORELINE REVETMENT PLAN
D1 - DETAILS

FILL VOLUMES HWL RELATED:

FILL				
Address	610 LS Area (SF)	612 LS Area (SF)	610 LS Vol (CY)	612 LS Vol (CY)
Static Above HWL	181	384	53.6	170.7
Static Below HWL	53	0	15.7	0.0
Dynamic Above HWL	58	0	6.4	0.0
Dynamic Below HWL	166	383	18.4	42.6
Total Fill			94.2	213.2

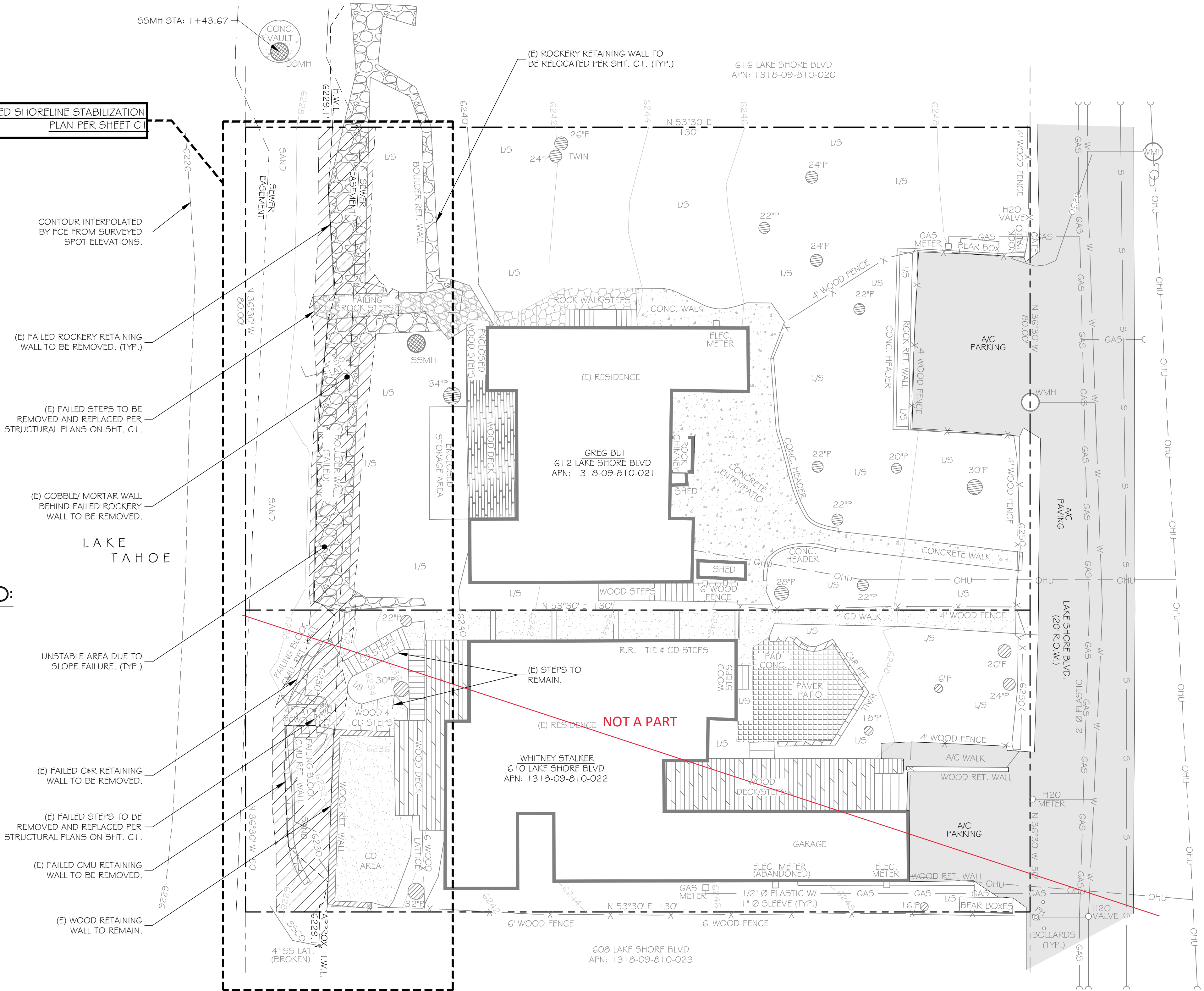
CUT				
Address	610 LS Area (SF)	612 LS Area (SF)	610 LS Vol (CY)	612 LS Vol (CY)
Static Above HWL	181	384	110.3	26.0
Static Below HWL	53	0	18.0	0.0
Dynamic Above HWL	58	0	0.0	0.0
Dynamic Below HWL	166	383	18.4	17.6
Total Cut			146.7	43.6

NET CUT/FILL (Negative Number = Cut)				
Address	610 LS Area (SF)	612 LS Area (SF)	610 LS Vol (CY)	612 LS Vol (CY)
Static Above HWL			-56.7	144.7
Static Below HWL			-2.3	0.0
Dynamic Above HWL			6.4	0.0
Dynamic Below HWL			0.0	25.0
Total Fill or Cut			-52.5	169.6

APPROVALS:

TAHOE DOUGLAS SEWER DISTRICT:
APPROVED PER 10/2/24 EMAIL FROM JANET MURPHY
SIGNED: _____ TITLE: _____
PRINT NAME: _____ DATE: _____

DOUGLAS COUNTY:
SIGNED: _____ TITLE: _____
PRINT NAME: _____ DATE: _____



SITE PLAN OVERVIEW

SCALE: 1"=10'-0"

Ferrell Civil Engineering

CA #C 55546 NV #12927
P.O. Box 361, Tahoe Vista, CA 96148

www.ferrellcivilengineering.com
ferrell@fcivil.com

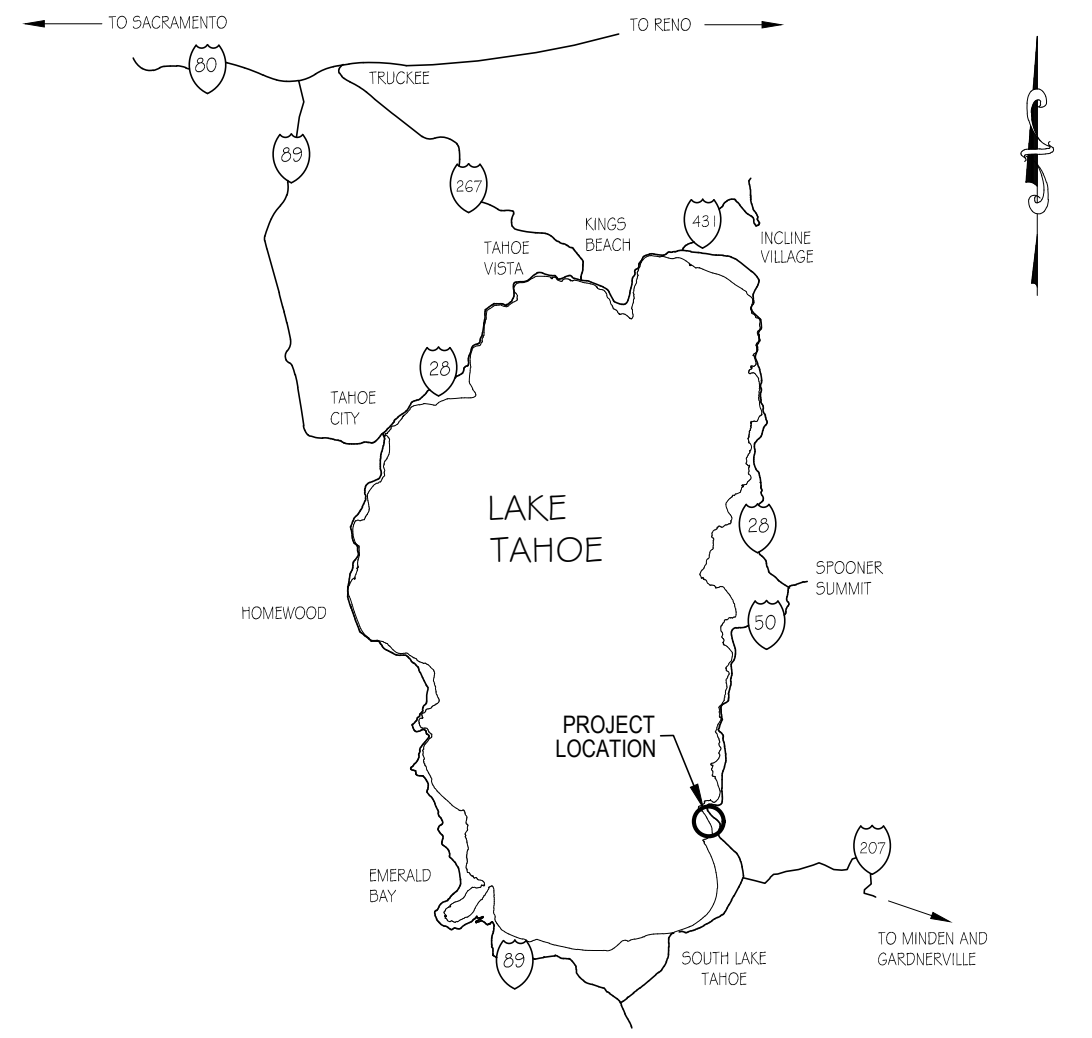
ph: 530.546.2752
fax: 530.546.4469

610/612 LAKE SHORE BLVD.

A.P.N. 1318-09-810-022/021

TITLE SHEET/SITE PLAN

DOUGLAS COUNTY



AREA MAP

N.T.S.

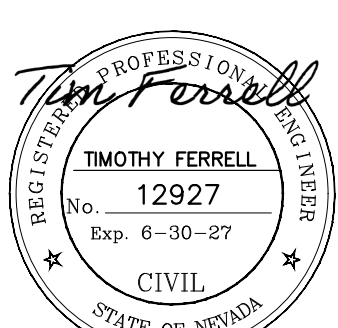
SURVEY/GENERAL NOTES:

- PROPOSED DESIGN BASED ON SURVEYS PROVIDED BY TURNER & ASSOCIATES, INC. DATED: JULY 2024. FERRELL CIVIL ENGINEERING WILL NOT BE RESPONSIBLE FOR THE ACCURACY OF THIS SURVEY. IF CONFLICT ARISES IMMEDIATELY CONTACT F.C.E. FOR RE-DESIGN.
- THE PROPERTY LINE INFORMATION SHOWN HEREON IS FROM RECORD DATA AND DOES NOT REPRESENT A BOUNDARY SURVEY.
- OWNER AND/OR PLANNER TO VERIFY ALL EXISTING EASEMENTS, BUILDING SETBACKS AND ANY OTHER BUILDING RESTRICTIONS WHICH MAY AFFECT THIS PROPERTY/PROJECT.
- NO INVESTIGATION CONCERNING THE LOCATION OF OR EXISTENCE OF UNDERGROUND UTILITY SERVICE LINES TO THIS PROPERTY WAS MADE AS A PART OF THIS SURVEY. CONTRACTOR TO BE RESPONSIBLE FOR CONTACTING UNDERGROUND SERVICE ALERT PRIOR TO BEGINNING OF WORK, EVEN ON PRIVATE PROPERTY.
- THIS SURVEY WAS PREPARED WITHOUT THE USE OF A TITLE REPORT UNLESS REFERENCED HEREON, TURNER & ASSOCIATES INC, ASSUMES NO RESPONSIBILITY FOR ANY EASEMENTS WHICH MAY AFFECT THIS PROPERTY.
- ALL ACCESS LOCATIONS WILL BE SWEEPED AT THE CLOSE OF EVERY WORK DAY. ALL CONSTRUCTION ACCESS WILL BE RESTORED AND STABILIZED TO PRE EXISTING CONDITIONS UPON COMPLETION OF THE WORK.
- TOPOGRAPHIC SURVEYS PERFORMED ON PROPERTY ON THE SHORE OF LAKE TAHOE ARE PLACED ON BUREAU OF RECLAMATION DATUM. THIS RESULTS IN THE WIDELY ACCEPTED ELEVATION OF 6223.0' FOR THE LOW WATER LINE OF LAKE TAHOE AND THE ELEVATION OF 6229.1' FOR THE HIGH WATER LINE OF LAKE TAHOE. TO CONVERT FROM BUREAU OF RECLAMATION DATUM TO NAVD88 ADD 2.9 FEET TO SPOT ELEVATIONS AND CONTOURS. TO CONVERT FROM BUREAU OF RECLAMATION DATUM TO NGVD29 SUBTRACT 1.1 FEET FROM SPOT ELEVATIONS AND CONTOURS.
- PRIOR TO REVETMENT CONSTRUCTION THE SEWER FOR THIS PROJECT WILL BE RE-ROUTED TO LAKE SHORE BLVD. VIA A SEPARATE PERMITTED PROJECT. RESIDENTS WILL NOT BE ALLOWED TO TIE BACK INTO THE 8" SEWER AFTER THE REVETMENT HAS BEEN CONSTRUCTED.
- PARCEL SIZE FOR 610 LAKE SHORE = 6,000 S.F. (±) (0.14 AC.) TO H.W.L. PARCEL SIZE FOR 612 LAKE SHORE = 9,355 S.F. (±) (0.22 AC.) TO H.W.L.
- LAKE FRONTAGE FOR 610 LAKE SHORE = 60.0 FT (APPROX.) LAKE FRONTAGE FOR 612 LAKE SHORE = 81.1 FT (APPROX.)

TRPA NOTES:

- CONTRACTOR TO HAVE THE APPROVED TRPA PERMIT AND STAMPED PLANS ON SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH THE TRPA SPECIAL AND STANDARD CONDITIONS OF APPROVAL SET FORTH IN THE PERMIT.
- THERE WILL BE NO STORAGE OF CONSTRUCTION MATERIALS IN THE SHOREZONE (INCLUDING THE BACKSHORE), EXCEPT ON EXISTING HARD LAND COVERAGE. NO CONTAINERS OF FUEL, PAINT OR OTHER HAZARDOUS MATERIALS MAY BE STORED ON THE SHORELINE.
- STAGING ACTIVITY IS PROHIBITED LAKE-WARD OF THE HIGH WATER LINE.

Call Two Working Days
Before You Dig!



12-15-25

Dig Safely. Dig Safely.
CALL: 811

[FOR CONSTRUCTION]

DRAWN BY: ZRN DESIGN BY: TKF
CHECKED BY: TKF DWG: P:\PIERS\MARIA BAY\610,612

REVISION	DATE	DESCRIPTION	APPROVED	DATE

DATE: DECEMBER 15, 2025

SCALE: 1"=10'-0"

NEVADA

W.O. NO. 610/612 LAKE SHORE

SHEET

T1

OF

3

LEGEND:

	— UTILITY AS NOTED
	— TREE, DIAMETER & TYPE
	— DYNAMIC REVETMENT
	— STATIC REVETMENT
	— PAVEMENT
	— APPROX. SEWER LINE
	— APPROX. ELECTRIC LINE
	— APPROX. WATER LINE
	— APPROX. ELECTRICAL LINE
	— APPROX. GAS LINE
	— EASEMENT LINE
	— VEGETATION PROTECTION FENCE
	— EROSION CONTROL FENCE

EXISTING SEWER MAIN DEPTH WAS DIGITIZED FROM SITE OBSERVATION AND IS APPROXIMATE. SEWER LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO ANY CONSTRUCTION.

CONSTRUCTION PHASES/METHODOLOGY

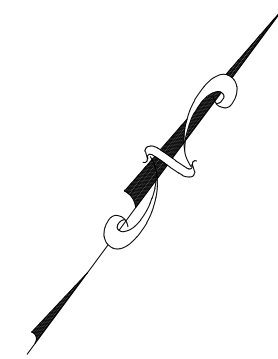
1. THE CONTRACTOR SHALL DRIVE THE SHEET PILE JUST LAKEWARD OF THE WALL TOE, (ENSURE 24" CLEARANCE TO SEWER MAIN), TO A DEPTH OF 5 FEET. LEAVE 36" OF SHEET PILE ABOVE GRADE TO PROTECT EXCAVATION AND SERVE AS WATER CONTAMINATION BARRIER.

THE CONTRACTOR SHALL CONSTRUCT WALL AND APPURTENANCES PER THE PLANS AND SPECIFICATIONS.

AFTER THE CONSTRUCTION IS STABLE THE CONTRACTOR SHALL DRIVE THE SHEET PILE INTO THE SAND TO A DEPTH 6" BELOW GRADE.

CONTRACTOR SHALL REPLACE THE SAND TO NATURAL GRADE SO SHEET PILE IS NOT VISIBLE FROM LAKE OR BEACH.

2. CONTRACTOR TO INSTALL 4" DIA. (±) SAND/PEBBLE BAGS 2' (MIN.) ABUTTING STATIC WALL.
3. CONTRACTOR SHALL REMOVE SEWER MAIN PER SEPARATE PROJECT PLANS.
4. CONTRACTOR SHALL INSTALL DYNAMIC REVETMENT AND REMOVE SAND BAGS.
5. ALL ROCKS TO BE PLACED IN A TIGHT "BRICK WORK" STRUCTURE, SUCH THAT THERE ARE NO CONTACTS BETWEEN ROCKS THAT SLOPE OUT OF THE WALL.
6. WHERE ROCKS ARE PLACED ON A SIDE SLOPE, SLOPE SHALL BE KEYED IN, SO THAT THE ROCKS ARE ON HORIZONTAL SURFACE AT MIN. 12" STEPS.
7. ALL ROCKS SHALL HAVE AT LEAST ONE BEARING POINT ON SLOPE BEHIND.

[illegible]

FILL SHOULD BE PLACED IN HORIZONTAL LIFTS TO THE LINES AND GRADES SHOWN ON THE PROJECT PLANS. SLOPES SHOULD BE CONSTRUCTED BY OVERBUILDING THE SLOPE AND CUTTING IT BACK TO DESIGN. SLOPE GRADES, FILL SLOPES SHOULD NOT BE CONSTRUCTED BY INTENDING TO COMPACTLY PLACING SOIL ON AN EXISTING SLOPE FACE AND/OR COMPACTED BY TRACK WALKING.

EQUIPMENT WITH KEYWAYS AND BENCHES SHOULD BE PROVIDED WHERE FILL IS PLACED ON SLOPES WITH GRADIENTS STEEPER THAN 5H:1V. THE KEYWAY SHOULD BE EXCAVATED AT THE TOE OF THE SLOPE AND EXTEND INTO COMPETENT MATERIAL.

- ALL BOULDERS & DRAIN ROCK SHALL BE ANGULAR FRACTURED STONE.
- ALL BOULDERS, DRAIN ROCK & DYNAMIC REVETMENT MATERIAL HAVE A SPECIFIC GRAVITY OF 2.5.



3 STONE STAIR DETAIL

N.7



EROSION CONTROL FENCE

VEGETATION PROTECTION FENCE



N.T.S.



N.T.S.



N.T.S.



N.T.S.