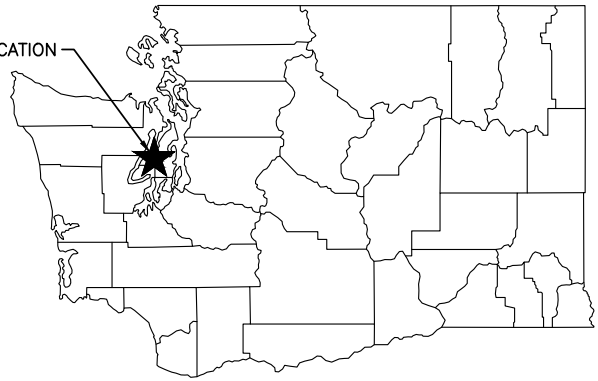
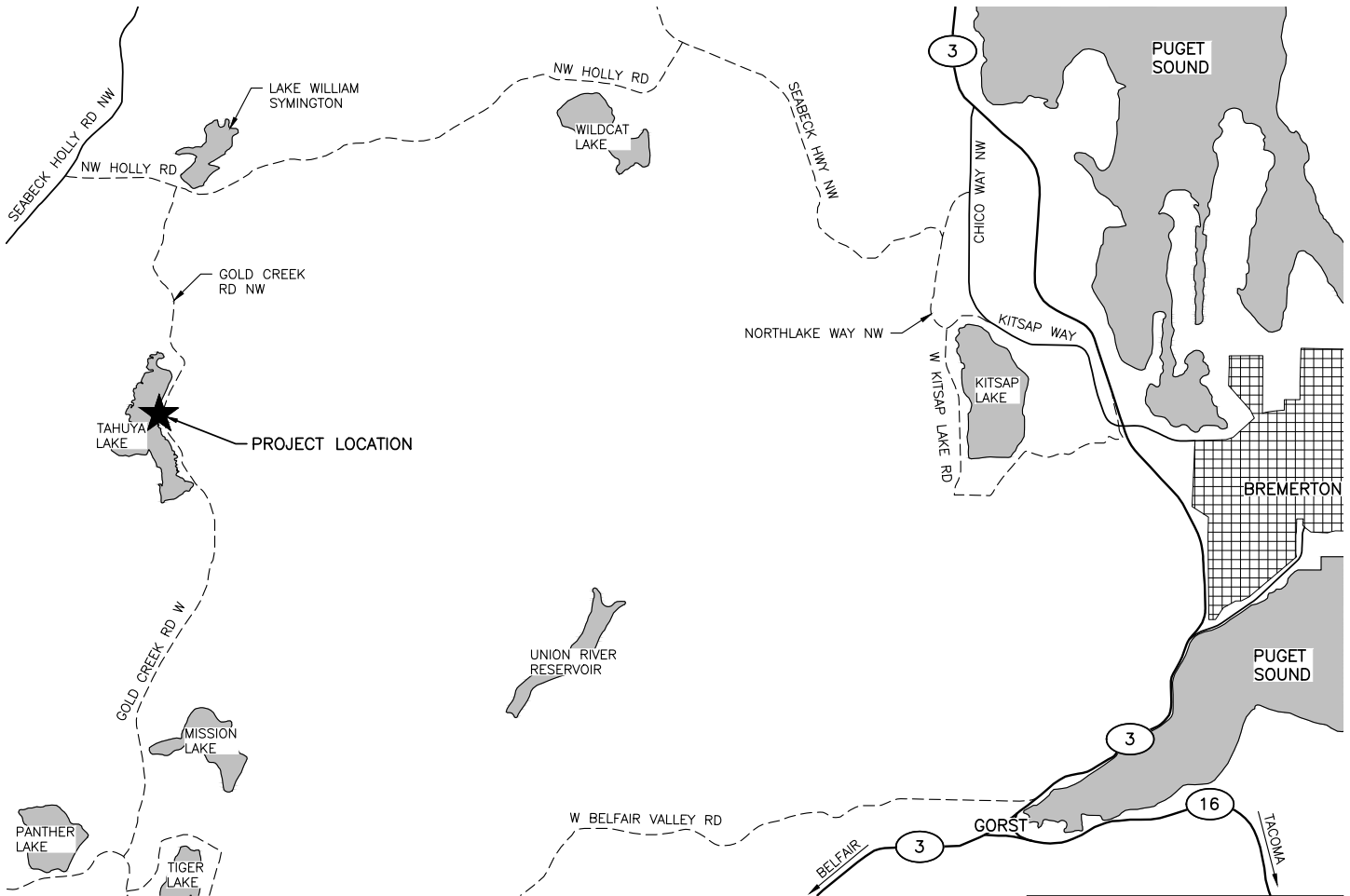




PROJECT LOCATION



**STATE MAP**  
NOT TO SCALE



SEC 17, T 24 N, R 1 W

**VICINITY MAP**  
NOT TO SCALE

**DIRECTIONS**  
FROM OLD BELFAIR HWY, TURN LEFT ONTO NE BEAR CR. DEWATTO RD., TURN RIGHT ONTO NE BEAR CR. RD., TURN RIGHT ON GOLD CR. RD., PROPERTY IS WEST OF THE INTERSECTION OF GOLD CR. RD. AND PERCHERON LN. NW.

ENG. PROJECT NO. KP:A695:2019-1

PORTION OF: SEC 17, T 24 N, R 1 W

DRAWN BY: N. BRUTZMAN

REFERENCE NUMBER:

APPLICANT:  
**WASHINGTON DEPT. of FISH & WILDLIFE**  
600 CAPITOL WAY N.  
OLYMPIA, WA 98501-1091

ADJACENT PROPERTY OWNER:  
1. JEATRAN, NICHOLAS W  
2. PORTER, CHARLES & MISTIE

PROJECT LOCATION (ADDRESS):

LAKE TAHUYA  
GOLD CREEK ROAD NW  
BREMERTON, WA 98312

LAT/LONG: N47.567845/W122.836265

DATUM: ASSUMED

SHEET 1 OF 9 DATE: 10/14/2020

PROPOSED PROJECT:

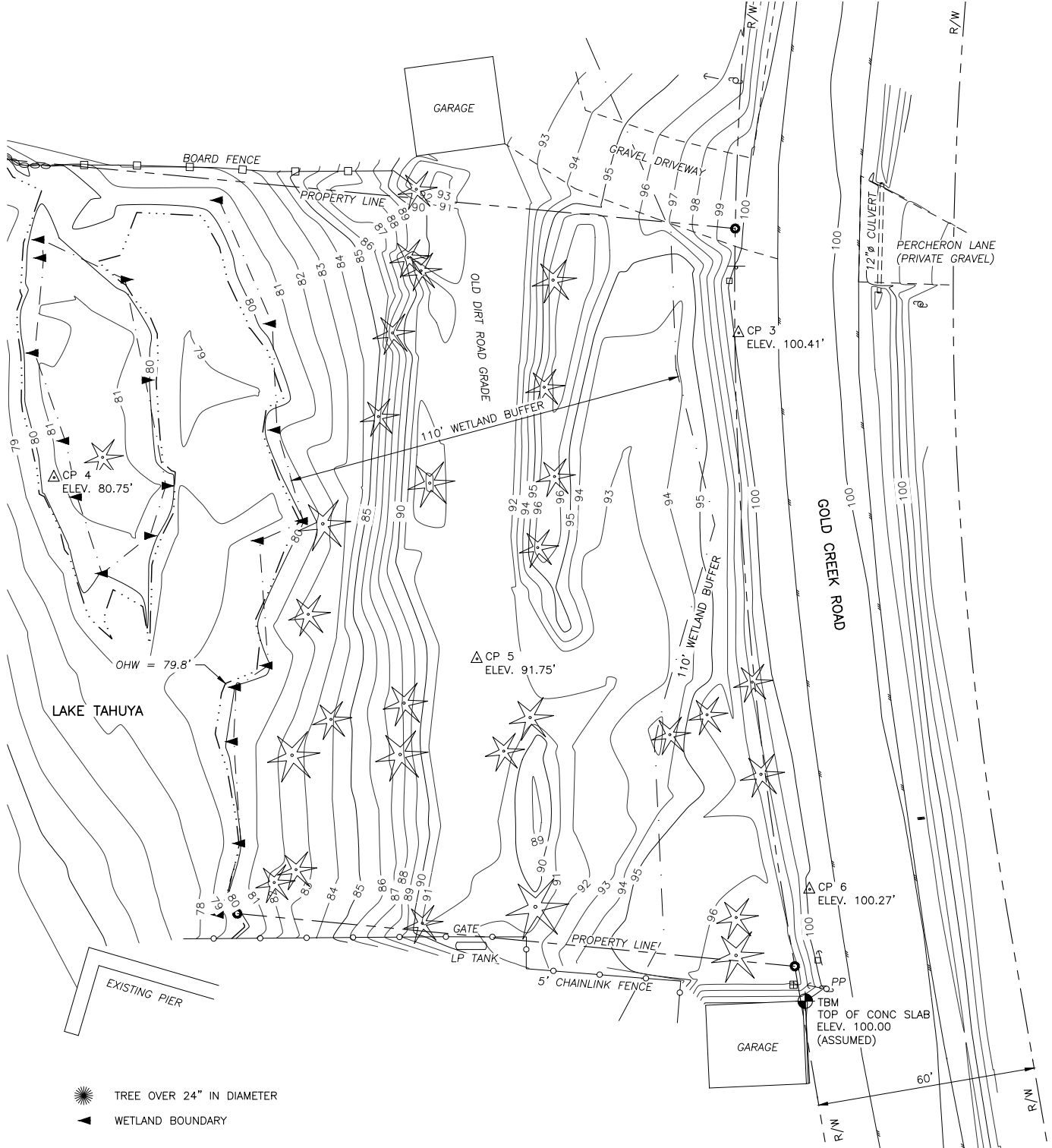
**LAKE TAHUYA**  
ACCESS DEVELOPMENT

IN: LAKE TAHUYA

NEAR/AT: BREMERTON

COUNTY: KITSAP

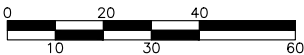
STATE: WA



- TREE OVER 24" IN DIAMETER
- WETLAND BOUNDARY

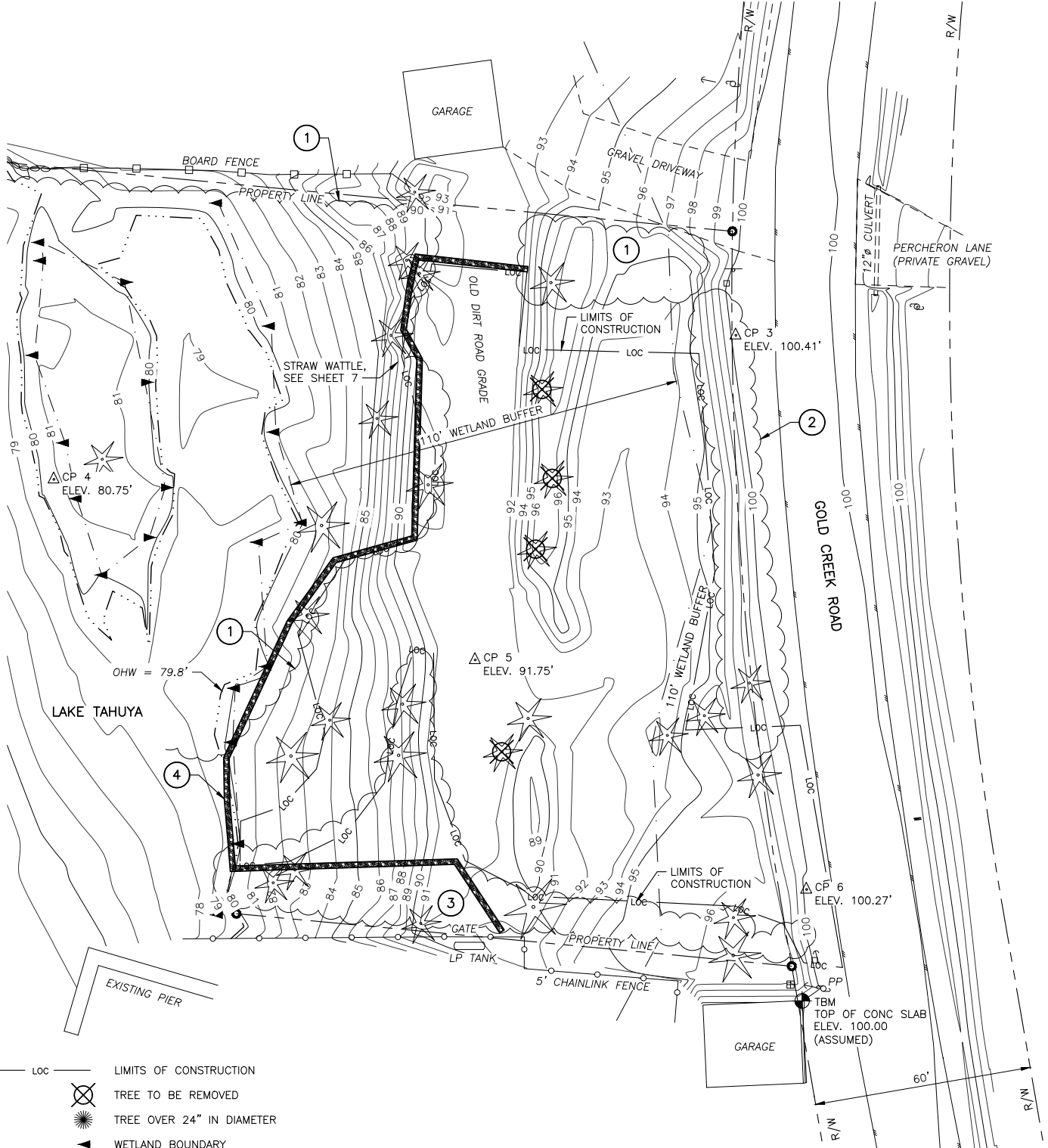
**EXISTING SITE**

SCALE: 1" = 40'



SCALE: 1" = 40'

REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 ACCESS DEVELOPMENT  
 LOCATION: LAKE TAHUYA  
 SHEET 2 OF 9 DATE: 10/14/2020

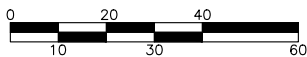


- Loc — LIMITS OF CONSTRUCTION
- TREE TO BE REMOVED
- TREE OVER 24" IN DIAMETER
- WETLAND BOUNDARY
- CALLOUT

**DEMOLITION PLAN**  
SCALE: 1" = 40'

**CALLOUTS:**

1. VEGETATION TO REMAIN
2. TREES WITH TRUNK DIAMETER GREATER THAN 8" TO REMAIN. LIMB TO 15 FEET ABOVE GROUND. REMOVE UNDERBRUSH.
3. VEGETATION TO REMAIN, SEE MITIGATION PLAN, SHEET 6.
4. STRAW WATTLE, SEE SHEET 7

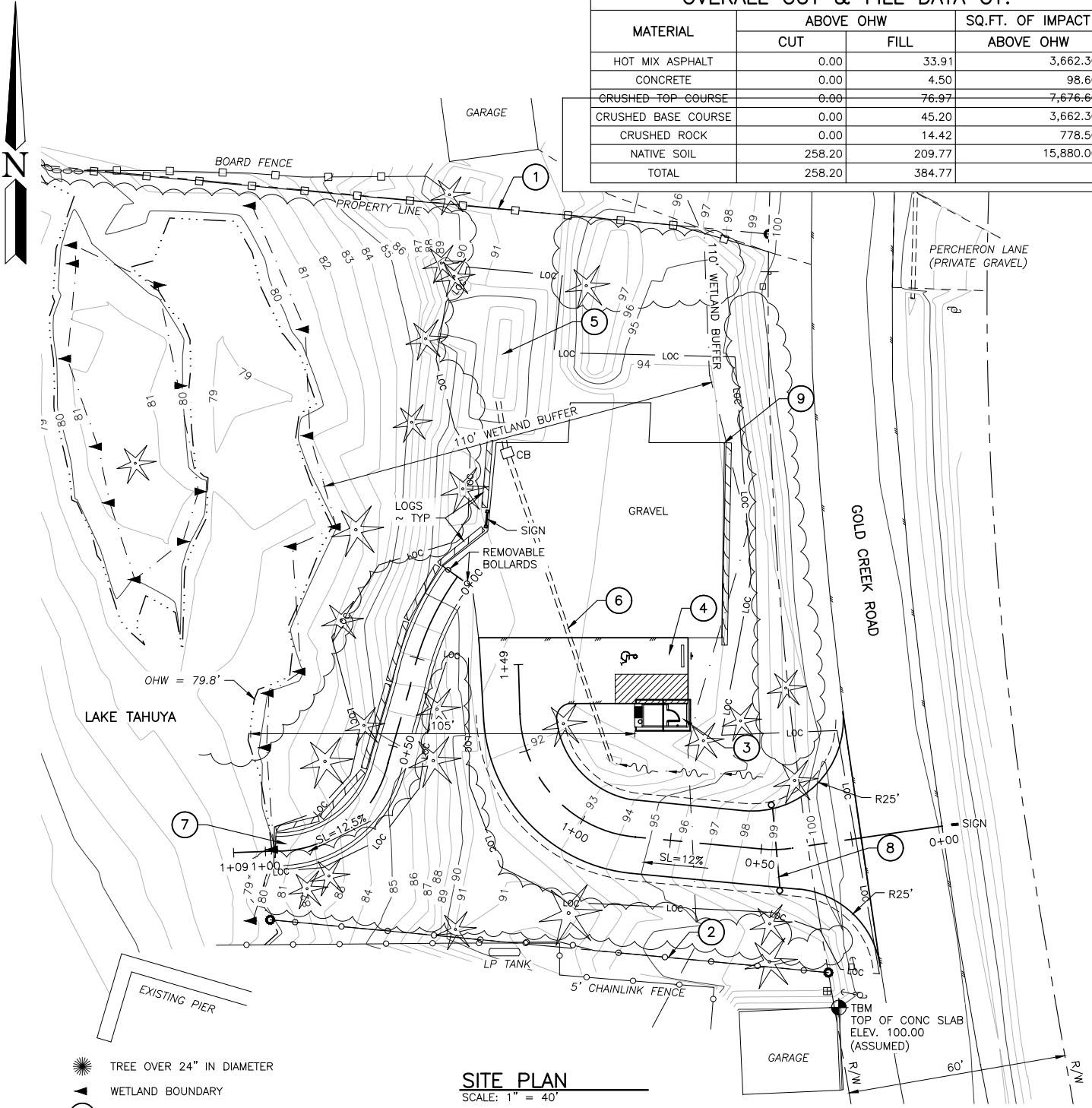


SCALE: 1" = 40'

REFERENCE NUMBER:  
 APPLICANT NAME:  
**WASHINGTON DEPT. of FISH & WILDLIFE**  
 PROPOSED PROJECT:  
**ACCESS DEVELOPMENT**  
 LOCATION: LAKE TAHUYA  
 SHEET 3 OF 9 DATE: 10/14/2020

**OVERALL CUT & FILL DATA CY.**

MATERIAL	ABOVE OHW		SQ.FT. OF IMPACT ABOVE OHW
	CUT	FILL	
HOT MIX ASPHALT	0.00	33.91	3,662.30
CONCRETE	0.00	4.50	98.60
CRUSHED TOP COURSE	0.00	76.97	7,676.60
CRUSHED BASE COURSE	0.00	45.20	3,662.30
CRUSHED ROCK	0.00	14.42	778.50
NATIVE SOIL	258.20	209.77	15,880.00
<b>TOTAL</b>	<b>258.20</b>	<b>384.77</b>	



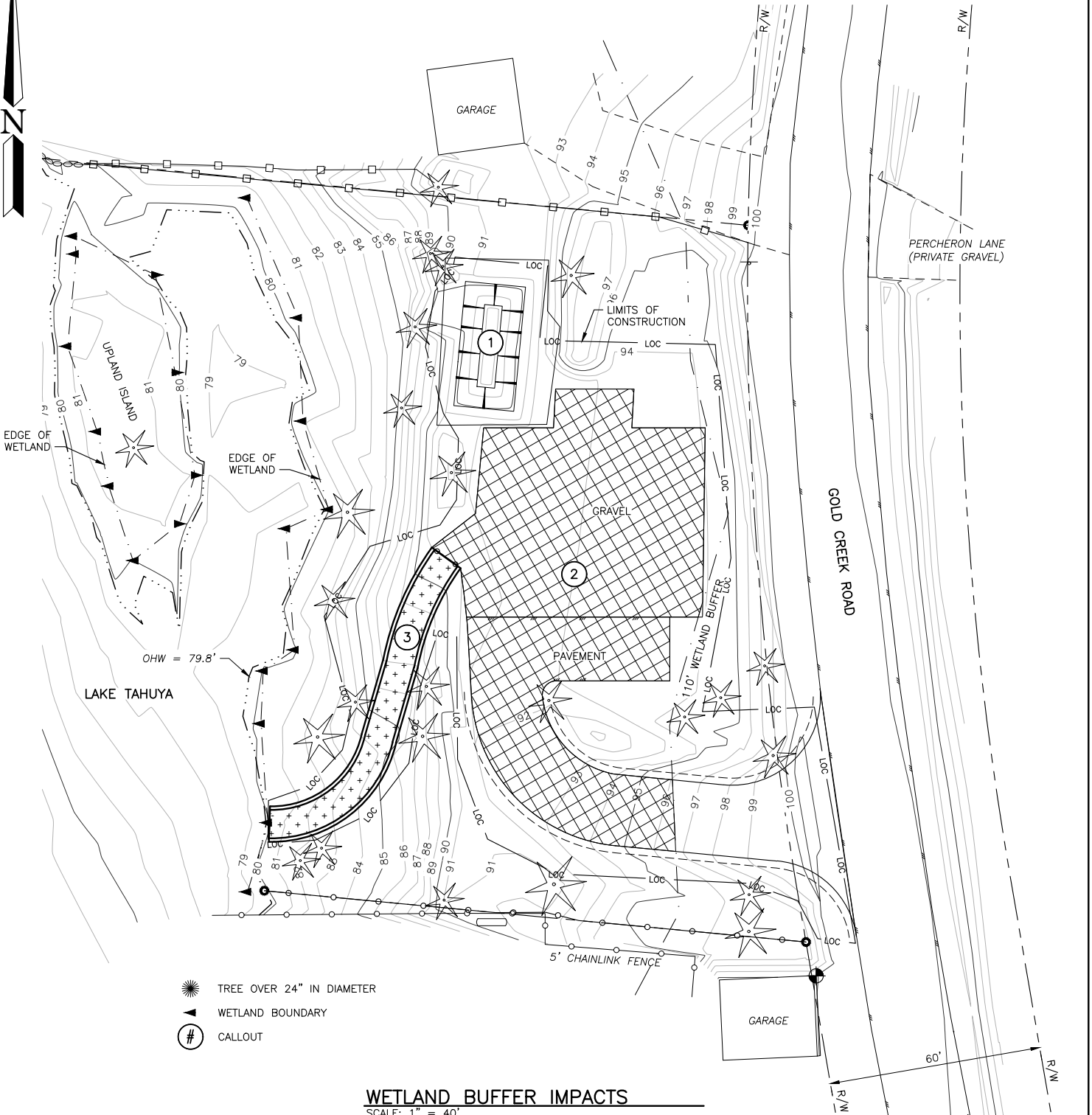
**SITE PLAN**  
SCALE: 1" = 40'

- TREE OVER 24" IN DIAMETER
- WETLAND BOUNDARY
- CALLOUT

**CALLOUTS:**

1. 6' HIGH SLATTED CHAIN LINK FENCE ON NORTH PROPERTY LINE. END FENCE AT EXISTING FENCE.
2. 6' HIGH SLATTED CHAIN LINK FENCE ON SOUTH PROPERTY LINE. JOG FENCE AT LP TANK. EXISTING FENCE TO REMAIN.
3. CXT CONCRETE VAULT TOILET. PAVE TO DOORWAY.
4. HANDICAP PARKING STALL. MAX SLOPE 2%. INSTALL STRIPE, WHEELSTOP AND SIGN.
5. RETENTION POND WITH 3H:1V SIDE SLOPES BOTTOM ELEV. = 88.0'. LEVEL SPREADER OVERFLOW AT ELEV. 90.00'. SEE PLANTING PLAN, SHEET 6
6. STORMWATER SYSTEM: ADS-N12 CULVERT. SLOPE=1.0%. TYPE I CATCH BASIN WITH OIL SPILL CONTROL ELBOW.
7. 8' WIDE GRAVEL LAUNCH TRAIL WITH GEO-WEB EROSION PROTECTION. SEE TYPICAL SECTION
8. 20' WIDE ASPHALT ENTRANCE WITH 25' RADIUS FILLET. SEAL AT COUNTY ROAD. SEE ROAD PROFILE. INSTALL GATE.
9. GRAVEL PARKING. ~ LINE EAST & WEST EDGE WITH CEDAR LOGS.

REFERENCE NUMBER:  
 APPLICANT NAME:  
**WASHINGTON DEPT. of FISH & WILDLIFE**  
 PROPOSED PROJECT:  
**ACCESS DEVELOPMENT**  
 LOCATION: LAKE TAHUYA  
 SHEET 4 OF 9 DATE: 10/14/2020



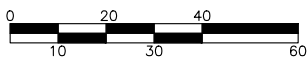
- TREE OVER 24" IN DIAMETER
- WETLAND BOUNDARY
- CALLOUT

**WETLAND BUFFER IMPACTS**

SCALE: 1" = 40'

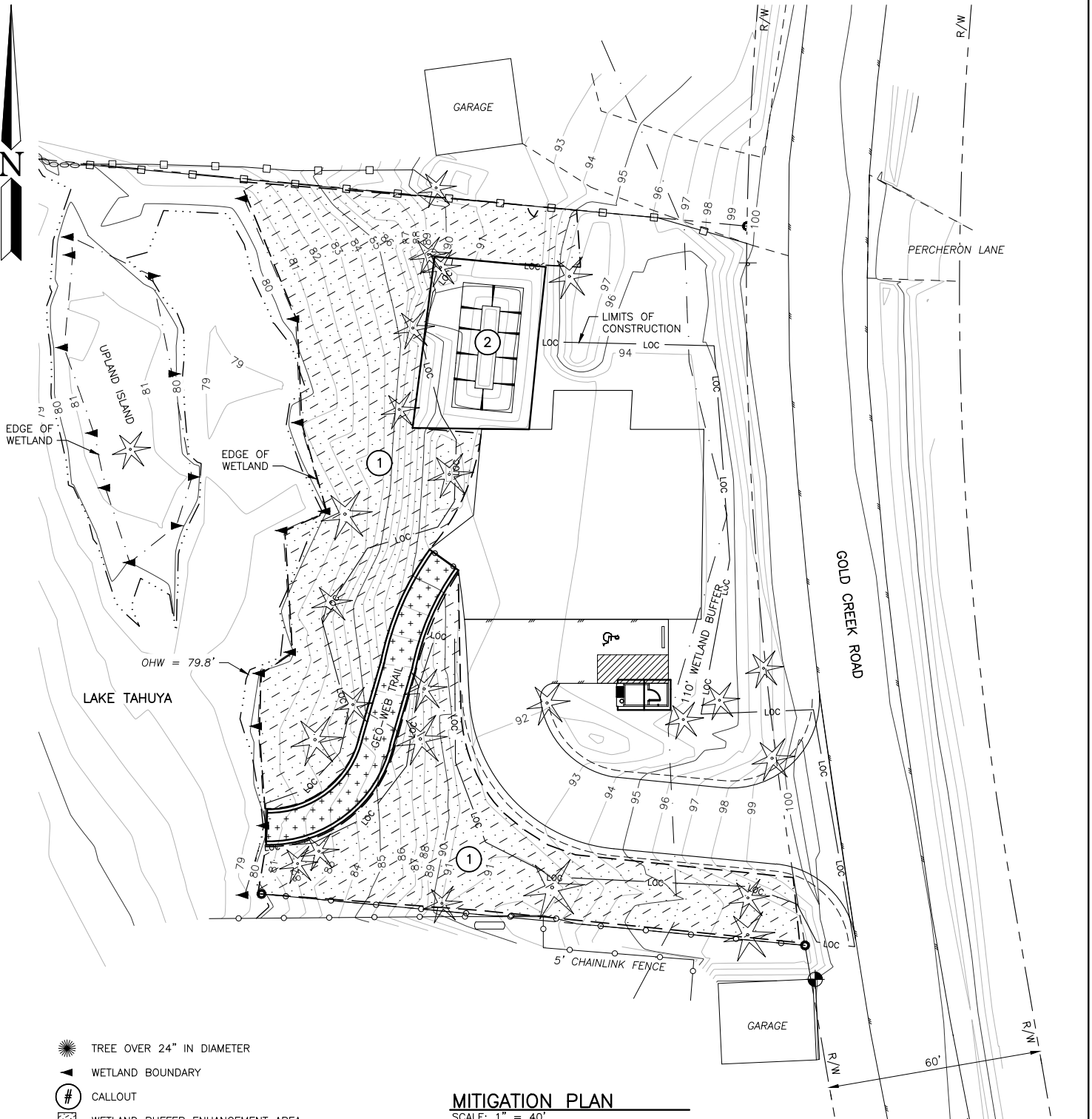
**CALLOUTS:**

1. 1,460 SF. - STORMWATER TREATMENT POND
2. 6,228 SF. - AREA OF IMPERVIOUS SURFACE WITHIN BUFFER.
3. 778 SF. - GEO-WEB AND GRAVEL TRAIL



SCALE: 1" = 40'

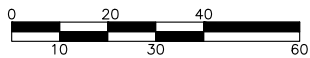
REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 ACCESS DEVELOPMENT  
 LOCATION: LAKE TAHUYA  
 SHEET 5 OF 9 DATE: 10/14/2020



- TREE OVER 24" IN DIAMETER
- WETLAND BOUNDARY
- CALLOUT
- WETLAND BUFFER ENHANCEMENT AREA

**MITIGATION PLAN**

SCALE: 1" = 40'



SCALE: 1" = 40'

**CALLOUTS:**

1. 10,110 SF. - PLANT WETLAND BUFFER ENHANCEMENT AREA PER SCHEDULE SHEET 7.
2. 1,550 SF. - PLANT STORMWATER TREATMENT POND PER SCHEDULE SHEET 7.

REFERENCE NUMBER:

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

ACCESS DEVELOPMENT

LOCATION: LAKE TAHUYA

SHEET 6 OF 9

DATE: 10/14/2020

1

**AREA 1 – WETLAND BUFFER ENHANCEMENT**

SPECIES	CHARACTERISTIC	NUMBER OF PLANTS
WESTERN RED CEDAR (THUJA PLICATA)	EVERGREEN TREE	15
EVERGREEN HUCKLEBERRY (VACCINIUM OVATUM)	EVERGREEN SHRUB	17
CASCADE OREGONGRAPE (BERBERIS NERVOSA)	LOW WOODY EVERGREEN PLANT	7
DOUGLAS (BLACK) HAWTHORN (CRATAEGUS DOUGLASII)	THORNY SMALL TREE	10
VINE MAPLE (ACER CIRCINATUM)	WOODY SHRUB	20
BLACK TIN-BERRY (LONICERA INVOLUCRATA)	HARDY SHRUB	4
OSOBERRY (OEMLERIA CERASIFORMIS)	SHADE TOLERANT SHRUB	4
PACIFIC WILLOW (SALIX LASIANDRA)	HYDROPHYTE SHRUB	10
NOOTKA ROSE (ROSA NUTKANA)	THORNY SHRUB	25
SALMONBERRY (RUBUS SPECTABILIS)	SHRUB	25
SCOULERS WILLOW (SALIX SCOULERIANA)	HYDROPHYTE	20
LADY-FERN (ATHYRIUM FILIX-FEMINA)	HERBACEOUS	7
SWORD FERN (POLYSTICHUM MUNITUM)	HERBACEOUS	7
SMALL FRUITED BULRUSH (SCIRPUS MICROCARPUS)	HYDROPHYTE	20
SLOUGH SEDGE (CAREX OBNUPTA)	GROWS IN MATS	20

2

**AREA 2 – STORMWATER TREATMENT POND**

SPECIES	CHARACTERISTIC	NUMBER OF PLANTS
SLOUGH SEDGE (CAREX OBNUPTA)	GROWS IN MATS	10
BENT GRASS (AGROSTIS STOLONIFERA)	SEED TO PREVENT EROSION	POUNDS 0.7105
LADY-FERN (ATHYRIUM FILIX-FEMINA)	HERBACEOUS	20
SWORD FERN (POLYSTICHUM MUNITUM)	HERBACEOUS	10

**SEED MIX – OR SIMILAR MIX, DEPENDING ON AVAILABILITY**

SPECIES	POUNDS OF MIXTURE (PER DENSITY 1 POUND/2000 SQ.FT.)
TUFTED HAIRGRASS (DESCHAMPSIA CESPITOSA)	SEED TO PREVENT EROSION
BENT GRASS (AGROSTIS STOLONIFERA)	

**AREA CALCULATIONS:**

PROPERTY ABOVE ORDINARY HIGH WATER	28,412 SF (0.65 ACRES)
IMPERVIOUS AREA FOR PARKING AND ENTRANCE ROAD	7,498 SF
AREA FOR GRAVEL LAUNCH TRAIL	778 SF

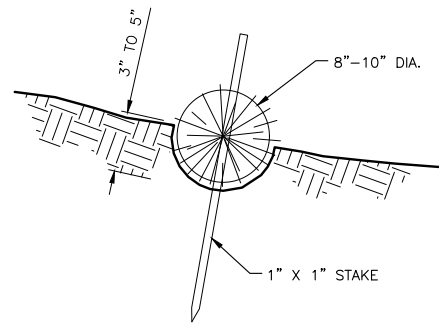
**BUFFER IMPACTS:**

LAUNCH TRAIL IN BUFFER	778 SF
PARKING IN BUFFER	3,817 SF
PAVEMENT IN BUFFER	2,410 SF
DETENTION POND IN BUFFER	1,460 SF
TOTAL BUFFER IMPACT	8,465 SF

**MITIGATION:**

BUFFER ENHANCEMENT	11,110 SF
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REVEGETATION PLACEMENT WILL BE DETERMINED ACCORDING TO ELEVATION AND HYDROLOGICAL RANGES.



**STRAW WATTLE DETAIL**

NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS:**

1. PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED.
2. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
3. DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
4. IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
5. START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
6. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF 3-12 FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 1:1=10' 2:1=20' 3:1=30' 4:1=40'
7. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
8. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
9. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
10. IF USING WILLOW STAKES REFER TO LIVE STAKING BEST MANAGEMENT PRACTICES.
11. INSTALL STAKES AT LEAST EVERY 4 FEET APART THROUGH THE WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSION OR VERY STEEP SLOPES.
12. INSPECT THE STRAW ROLLS AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
13. REPAIR ANY RILLS OR GULLYS PROMPTLY.
14. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

REFERENCE NUMBER:

APPLICANT NAME:

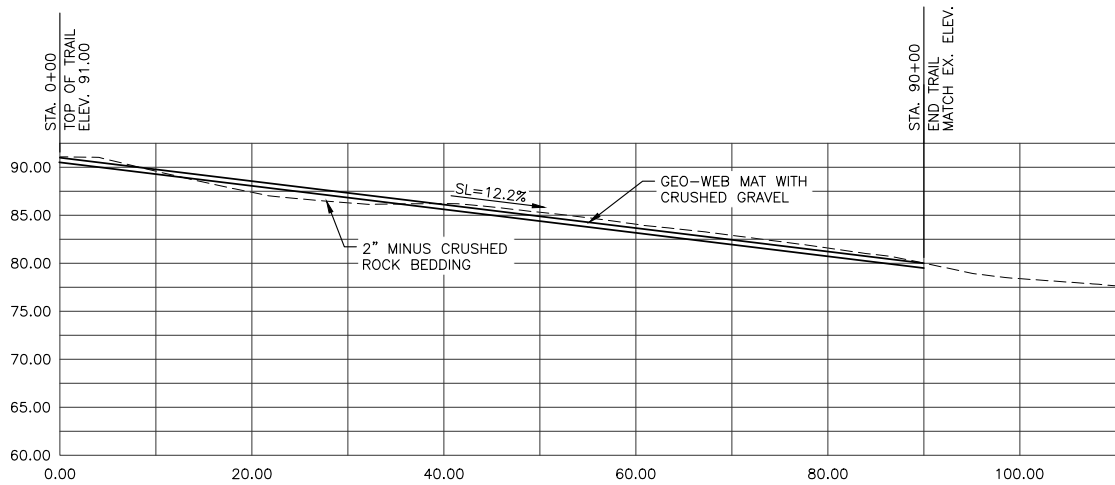
WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:

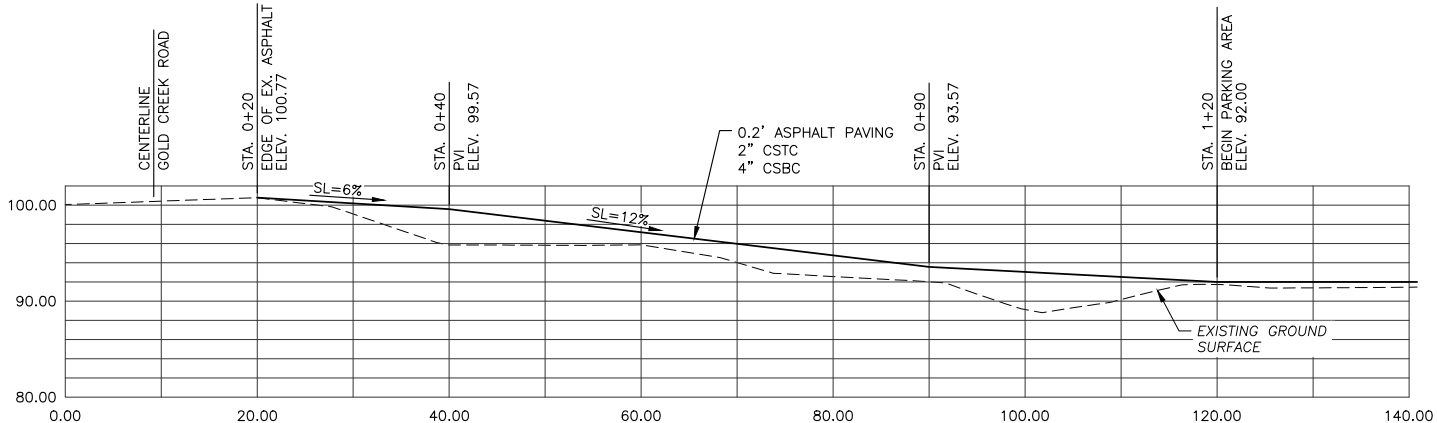
ACCESS DEVELOPMENT

LOCATION: LAKE TAHUYA

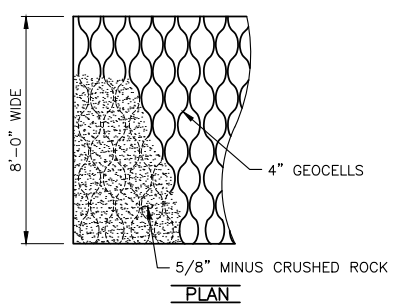
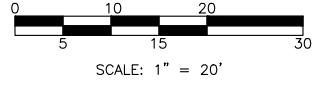
SHEET 7 OF 9 DATE: 10/14/2020



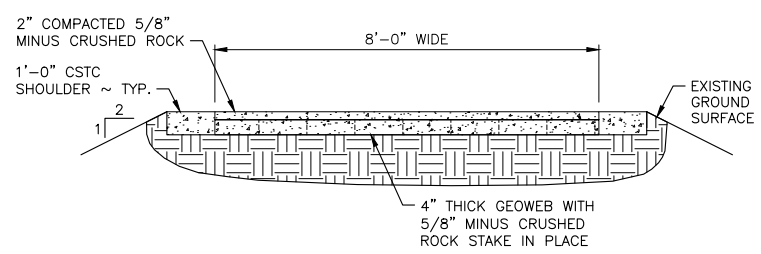
**TRAIL PROFILE**  
SCALE: 1" = 20'



**ENTRANCE PROFILE**  
SCALE: 1" = 20'

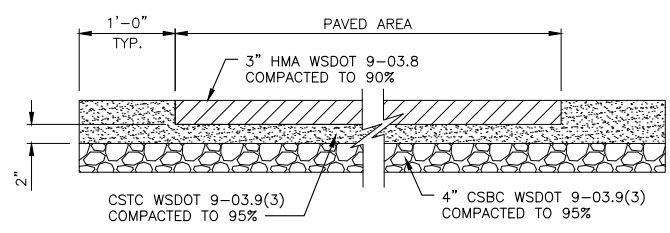


**PLAN**

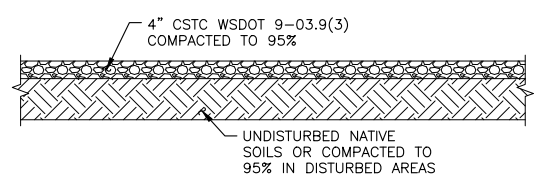


**SECTION**

**GEOWEB & GRAVEL TRAIL**  
NOT TO SCALE



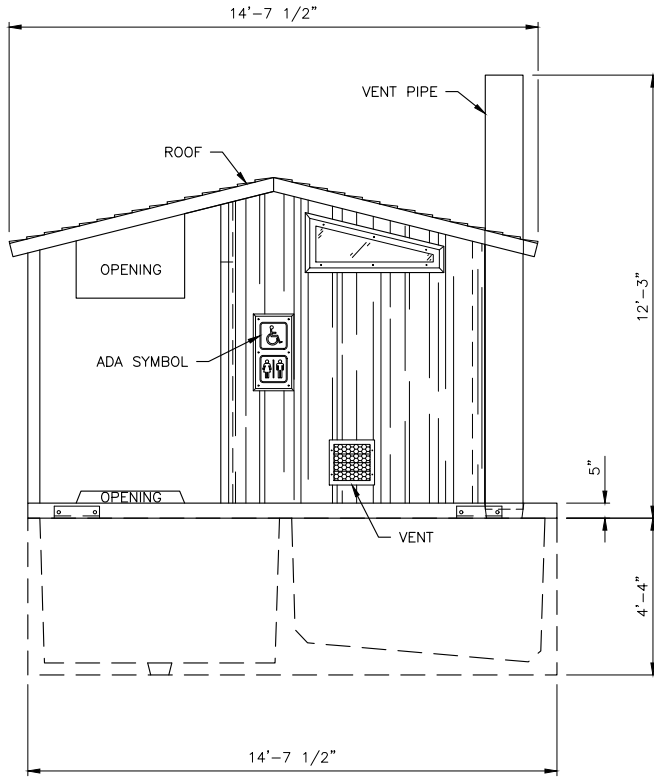
**HMA DETAIL**  
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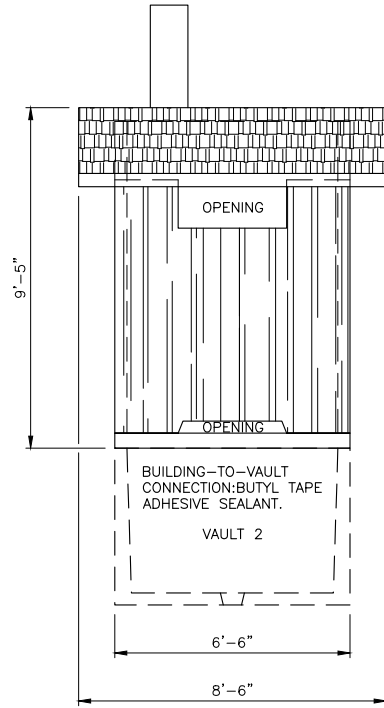
**GRAVEL DETAIL**  
NOT TO SCALE

REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 ACCESS DEVELOPMENT  
 LOCATION: LAKE TAHUYA  
 SHEET 8 OF 9 DATE: 10/14/2020

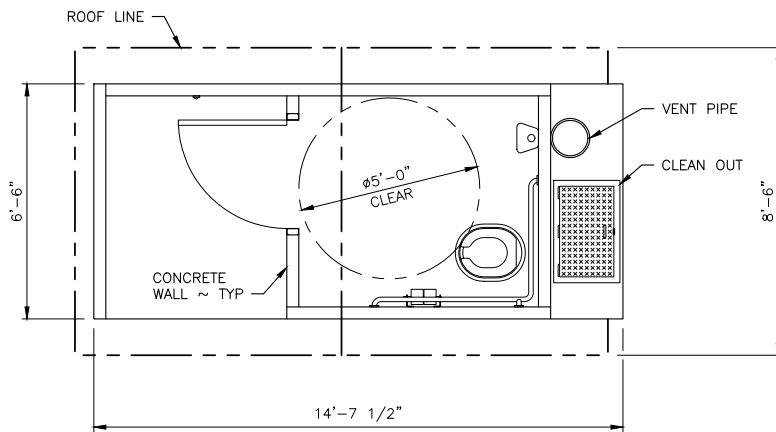




**FRONT ELEVATION**  
NOT TO SCALE



**SIDE ELEVATION**  
NOT TO SCALE



**CXT VAULT TOILET PLAN**  
NOT TO SCALE

**NOTE:**

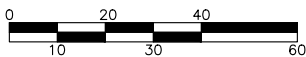
INSTALL NEW 1,000 GAL, CXT GUNNISON CONCRETE VAULT TOILET. TANK MANUFACTURED BY CXT CONCRETE BUILDINGS. FOR TOILET INSTALLATION, SEE SPECIFICATIONS.

REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 ACCESS DEVELOPMENT  
 LOCATION: LAKE TAHUYA  
 SHEET 9 OF 9 DATE: 10/14/2020



**EXISTING SITE**

SCALE: 1" = 40'



SCALE: 1" = 40'

REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 ACCESS DEVELOPMENT  
 LOCATION: LAKE TAHUYA  
 SHEET X OF X DATE: 10/14/2020