

FEMA FLOOD MITIGATION - TALOTAM LODGE

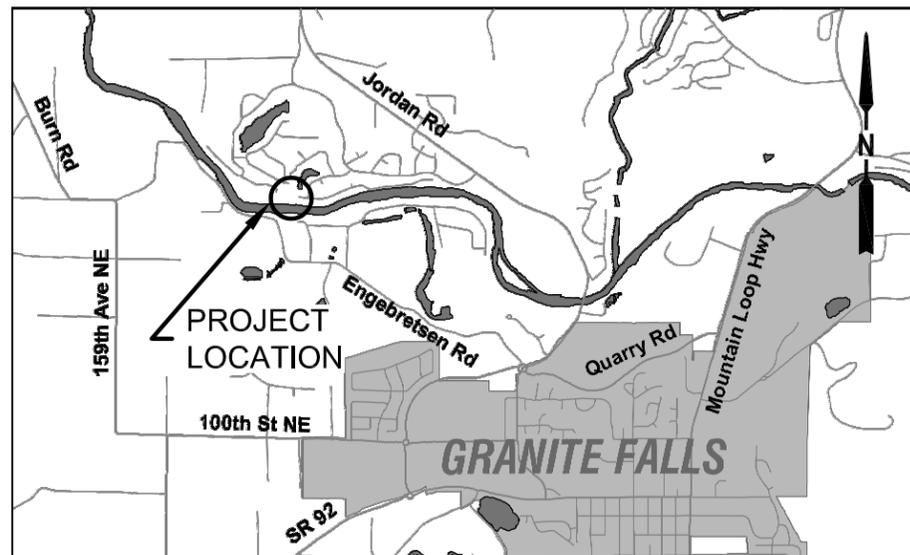
SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS

SURFACE WATER MANAGEMENT

PROJECT #WC3056

PRELIMINARY

60 PERCENT SUBMITTAL



LOCATION MAP
N.T.S.



Snohomish County Officials

DIRECTOR OF PUBLIC WORKS
KELLY SNYDER, MPA

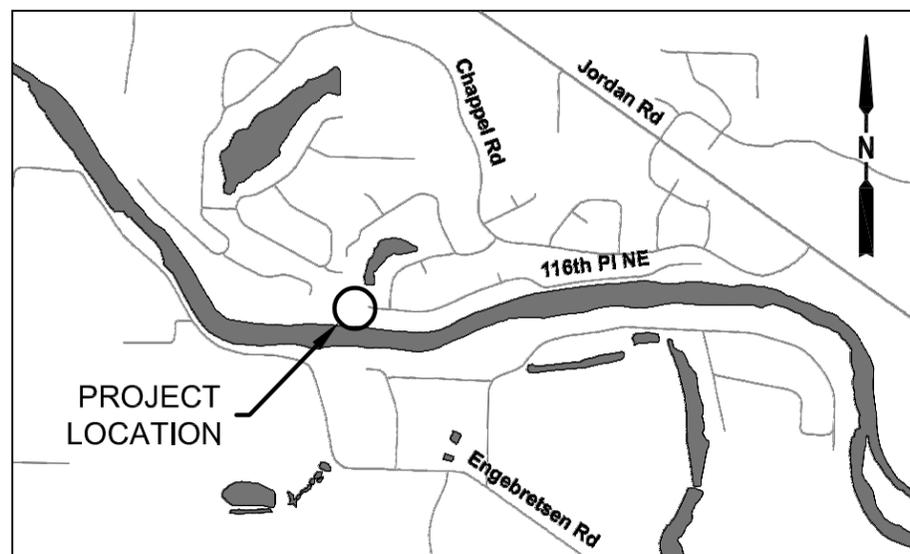
COUNTY ENGINEER
DOUGLAS W. McCORMICK, P.E.

EXECUTIVE
DAVE SOMERS

COUNCIL MEMBERS
NATE NEHRING - DIST. 1
MEGAN DUNN - DIST. 2
STEPHANIE WRIGHT - DIST. 3
VACANT - DIST. 4
SAM LOW - DIST. 5

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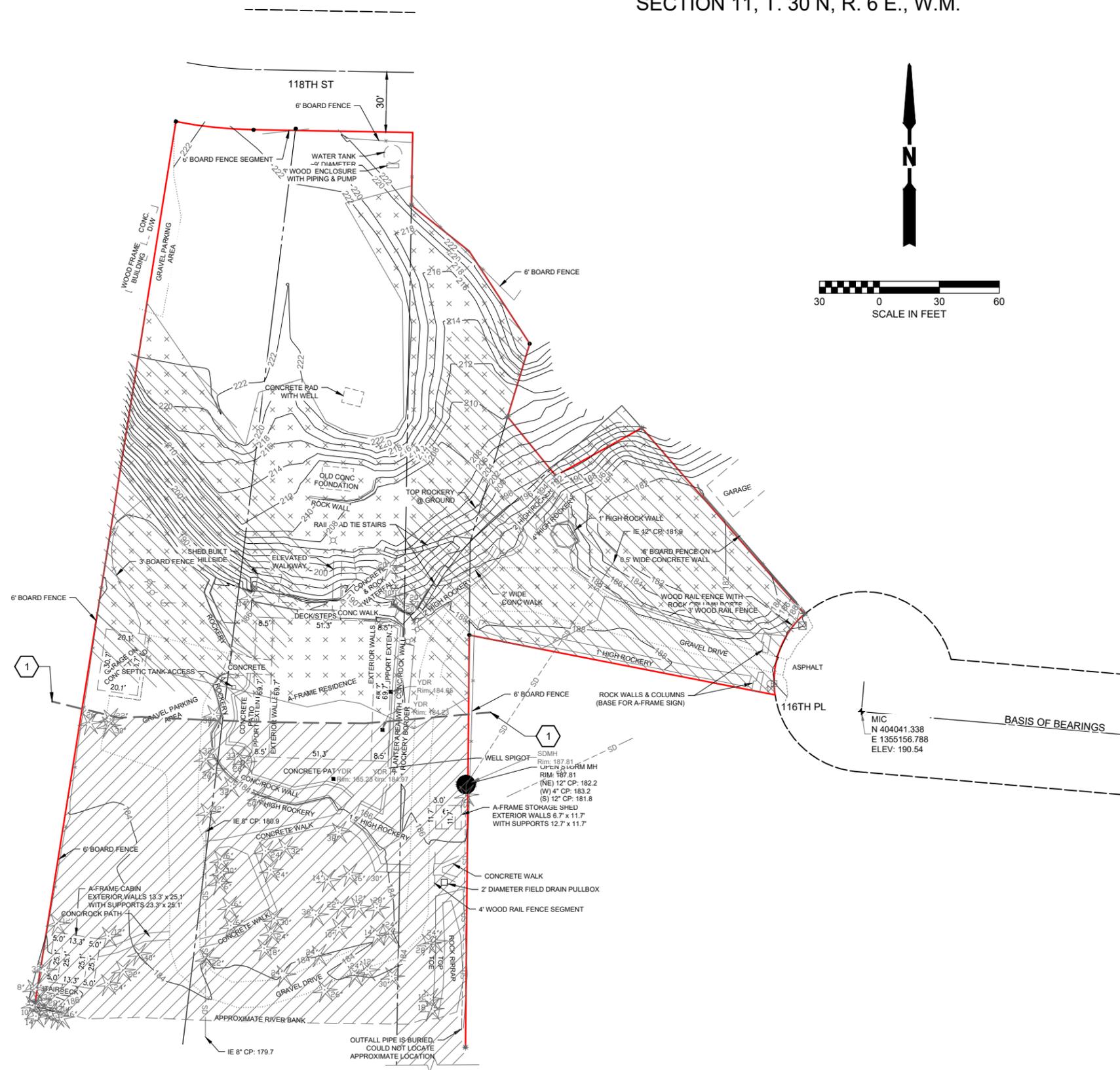
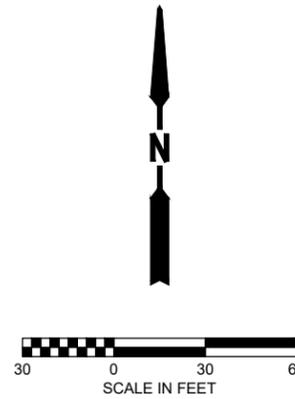


VICINITY MAP
N.T.S.

SECTION 11, T. 30 N, R. 6 E., W.M.

BUFFER LEGEND

-  RIVER BUFFER 150' FROM TOP OF BANK
31,570 SFT - 0.72 AC
-  CRITICAL AREA - PROTECTION AREA
33,292 SFT - 0.76
-  LANDSLIDE HAZARD AREA
44,626 SFT - 1.02 AC
-  150' STREAM BUFFER LINE



SITE ADDRESS

17115 116TH PL NE
ARLINGTON, WA 98223

PARCEL NUMBER

00551400004200, 00551400004301
30061100100600, 00627300002700

June 25, 2020 - 9:56 AM - SPWP-IP - X:IRSHIFLOODPLAN\FEMA FMA\FY2017\HOMEOWNERS\WHITCOMBE_SF_STILLY - AGREE TO APPLY\CADD\3056-CRIT.DWG - Layout Name: CRIT

DATE	NO.	REVISION	BY



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SURVEY NO.: ---	FIELD BOOK(S): ---
HORZ. DATUM: ---	VERT. DATUM: ---
DESIGNED BY: D.WILSON	DRAWN BY: T.HEMRICH

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REVIEWED AND APPROVED FOR CONSTRUCTION

DOUGLAS W. McCORMICK, P.E.
SNOHOMISH COUNTY ENGINEER

DATE APPROVED: _____

**SNOHOMISH COUNTY
DEPARTMENT OF
PUBLIC WORKS**

FUNDING NO. WC3056

FEMA FLOOD MITIGATION
TALOTAM LODGE

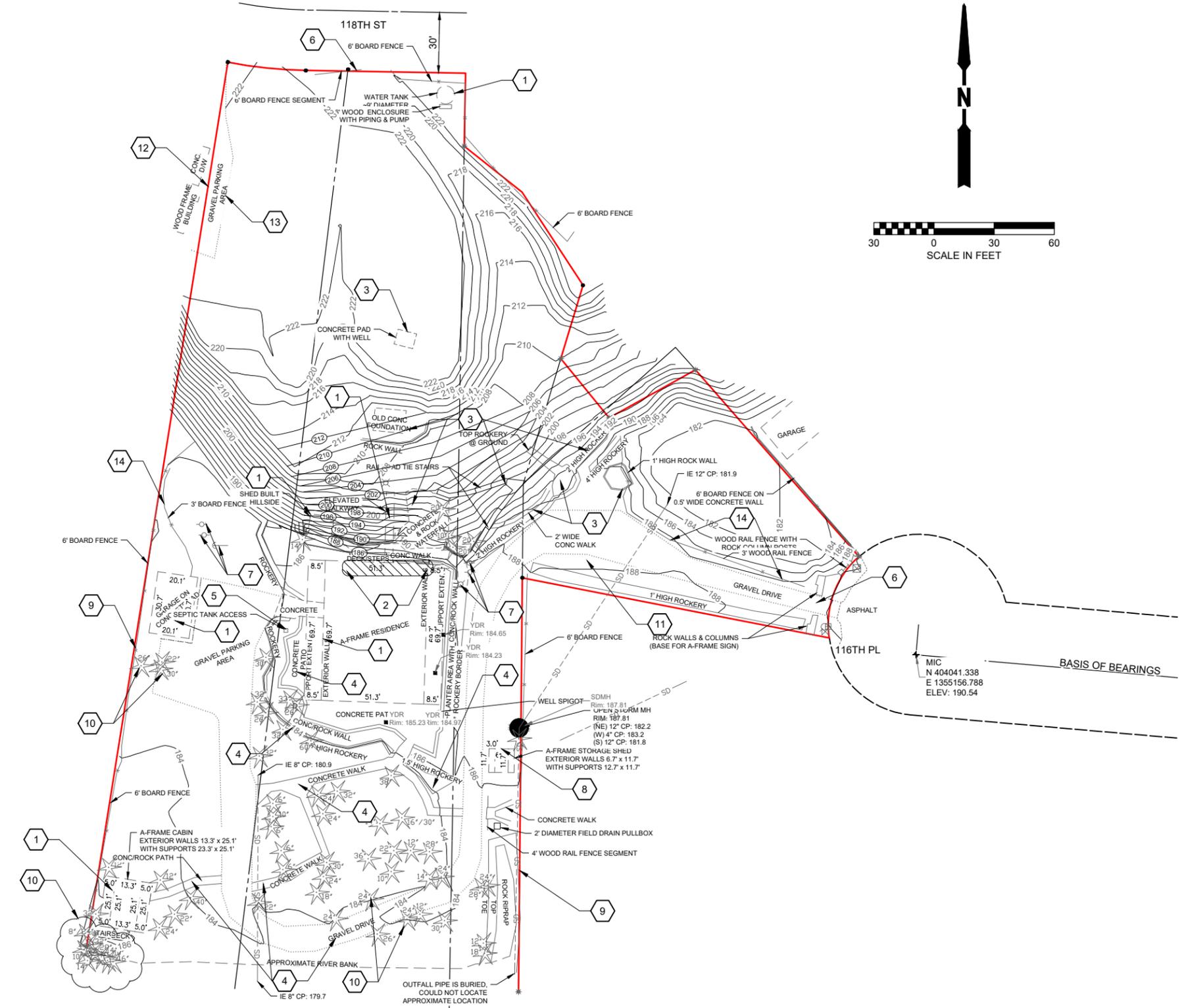
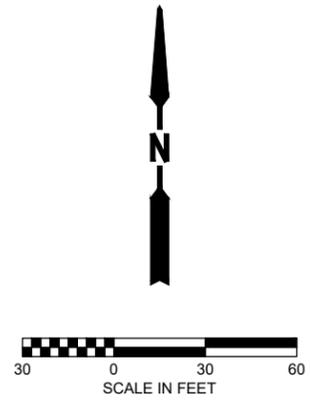
CRITICAL AREAS

REFERENCE SHEET NO. ----
SHEET 3 OF 8 SHEETS

SECTION 11, T. 30 N, R. 6 E., W.M.

CONSTRUCTION NOTES

- 1 DEMOLISH/ REMOVE LODGE, ACCESSORY DWELLING, GARAGE, SAUNA, WELL HOUSE, CATWALK BRIDGE, WATER TANK AS WELL ASS ACCESSORY IMPROVEMENTS
- 2 RIVER ROCKS & COBBLES FROM WALLS, PATHS EXCAVATION ACTIVITIES MAY BE PLACED IN THE DISTURBED AREA AT THE TOE OF THE REGRADED SLOPE (E-W) TO ACT AS A LEVEL SPREADER FOR GROUND WATER
- 3 REMOVE CONCRETE WALLS, CONCRETE PATHS, CONCRETE WATER FEATURE IN-SET IN SLOPE, AND COBBLE ROCK STRUCTURES CONSTRUCTED INTO THE SLOPE.
- 4 REMOVE ALL IMPERVIOUS SURFACES, INCLUDING CRUSHED ROCK AND CONCRETE STRUCTURES ON THE FOUR WESTERLY PARCELS, CRUSHED ROCK MAY BE STOCKPILED AND RE-DISTRIBUTED ON THE EASTERN MOST PARCEL IN THE PARKING AREA TO BE LEFT FOR FUTURE SITE ACCESS AND MAINTENANCE.
- 5 PUMP ON-SITE SEPTIC TANK, BACK-FILL WITH NON-POLLUTION GENERATING/ POROUS MATERIALS AND CRUSH IN PLACE.
- 6 REMOVE "TALOTAM" LODGE SIGN AND ENTRY WAY STRUCTURE, REPLACE WITH A "LIVESTOCK/ CATTLE" GATE SIZED FOR VEHICULAR TRAFFIC AND A 3' WIDE "MAN" GATE OF EQUAL HEIGHT TO THE CATTLE GATE. EACH SIDE OF GATE SHALL BE ATTACHED/ INSTALLED WITH A 6"X 6" POST SET IN CONCRETE TO A DEPTH OF 24" AND EACH GATE POST SHALL HAVE A WESTERN RED CEDAR/ OR BRONZE POST CAP TO PROTECT POST FROM DECOMPOSITION.
- 7 ONSITE UTILITIES SHALL BE REMOVED SUCH THAT THEY ARE VISIBLE FROM THE GROUND SURFACE. THE COUNTY WILL COORDINATE THE UTILITY DIS-CONNECTIONS WITH SNOHOMISH PUD AND OTHER DRY UTILITY PROVIDERS, CONTRACTOR SHALL REMOVE THE UTILITY POLES ONSITE SUCH THAT ALL DRY UTILITIES ARE REMOVED PRIOR TO THE FINAL INSPECTION BY THE COUNTY, SCHEDULED AT THE CONTRACTORS REQUEST.
- 8 REMOVE LARGE FLY WHEEL/ PELTON WHEEL LOCATED BEHIND/ NORTH OF THE WELL HOUSE ALONG THE FENCE LINE.
- 9 ANY FENCE TYPE STRUCTURES RUNNING IN THE NORTH-SOUTH DIRECTION SHALL BE MAINTAINED BY THE CONTRACTOR, ALL FENCING WITHIN A 200' MEASUREMENT OF THE BULKHEAD ON THE RIVER BANK SHALL HAVE THE POSTS PROTECTED, BUT THE WOODEN PANELS REMOVED. ALL WOODEN FENCE PANELS REMOVED IN THE 200 FOOT OFFSET FROM THE BULKHEAD SHALL BE REPLACED WITH 4" BY 4" GALVANIZED HOG-WIRE PANELS, FRAMED IN PRESSURE TREATED LUMBER AND WESTERN RED CEDAR BRICK MOLDING TO SECURE THE HOG-WIRE PANELS. THE CLEAR AREA BELOW THE FENCE PANELS SHALL BE AT LEAST 6" OFF OF THE GROUND SURFACE AND NO MORE THAN 14" FROM THE GROUND SURFACE AFTER INSTALLATION OF HOG-WIRE PANELS. FLOOD FLOWS TO PASS THROUGH THE FENCING MATERIALS WITHOUT DAMAGING THE FENCE WITH HYDRO-DYNAMIC FLOWS.
- 10 THE CONTRACTOR SHALL PROTECT ALL TREES ON SITE, GREATER THAN 6" DIAMETER AT SHOULDER HEIGHT WITH THE EXCEPTION OF THOSE TREES MARKED WITH BLUE PAINT BY THE OWNER OR DOCUMENTED AS A "HAZARD TREE" BY A LICENSED AND BONDED ARBORIST.
- 11 MAINTAIN GRAVEL DRIVEWAY AT THE EASTERN SITE ENTRANCE WHERE IT IS PARALLEL WITH THE 1' HIGH ROCKERY TO THE SOUTH
- 12 CONSTRUCT 300 LINEAL FEET OF "HOG WIRE FENCE" AS DETAILED IN PLAN SET SHEET OF DETAILS ALONG THE WESTERLY PROPERTY LINE DESCRIBED IN NOTE #9
- 13 REMOVE THE GRAVEL DRIVEWAY ENCROACHMENT AND IMPERVIOUS SURFACES ALONG THE NW CORNER OF PROPERTY, DE-COMPACT SOILS OR PLACE 12" OF LOOSE TOPSOIL AND 8" OF ARBORIST MULCH/ TUB GRIND/ OR SEED FREE STRAW TO PREPARE AREA FOR NEW PLANTINGS IN THE FALL/ WINTER TIME FRAME
- 14 REMOVE 3' HIGH BOARD FENCE & SPLIT RAIL FENCE



LEGEND

200 PROPOSED CONTOURS

SITE ADDRESS

17115 116TH PL NE
ARLINGTON, WA 98223

GRADING QUANTITIES

EXPORT:
250 CY - CONCRETE/EXCAVATED MATERIAL

PARCEL NUMBER

00551400004200, 00551400004301
30061100100600, 00627300002700

IMPORT:
250 CY - TOPSOIL

June 25, 2020 - 6:42 AM - SPWP-IP - X:IRSHFLOODPLAN\FEMA FMA\FY2017\HOMEOWNERS\WHITCOMBE_SF_STILLY - AGREE TO APPLY\CADD\3056-DEMO.DWG - Layout Name: DEMO

DATE	NO.	REVISION	BY



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DESIGNED BY: D.WILSON	DRAWN BY: T.HEMRICH

PRELIMINARY

60% SUBMITTAL

REVIEWED AND APPROVED FOR CONSTRUCTION

DOUGLAS W. McCORMICK, P.E.
SNOHOMISH COUNTY ENGINEER

DATE APPROVED: _____

SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS

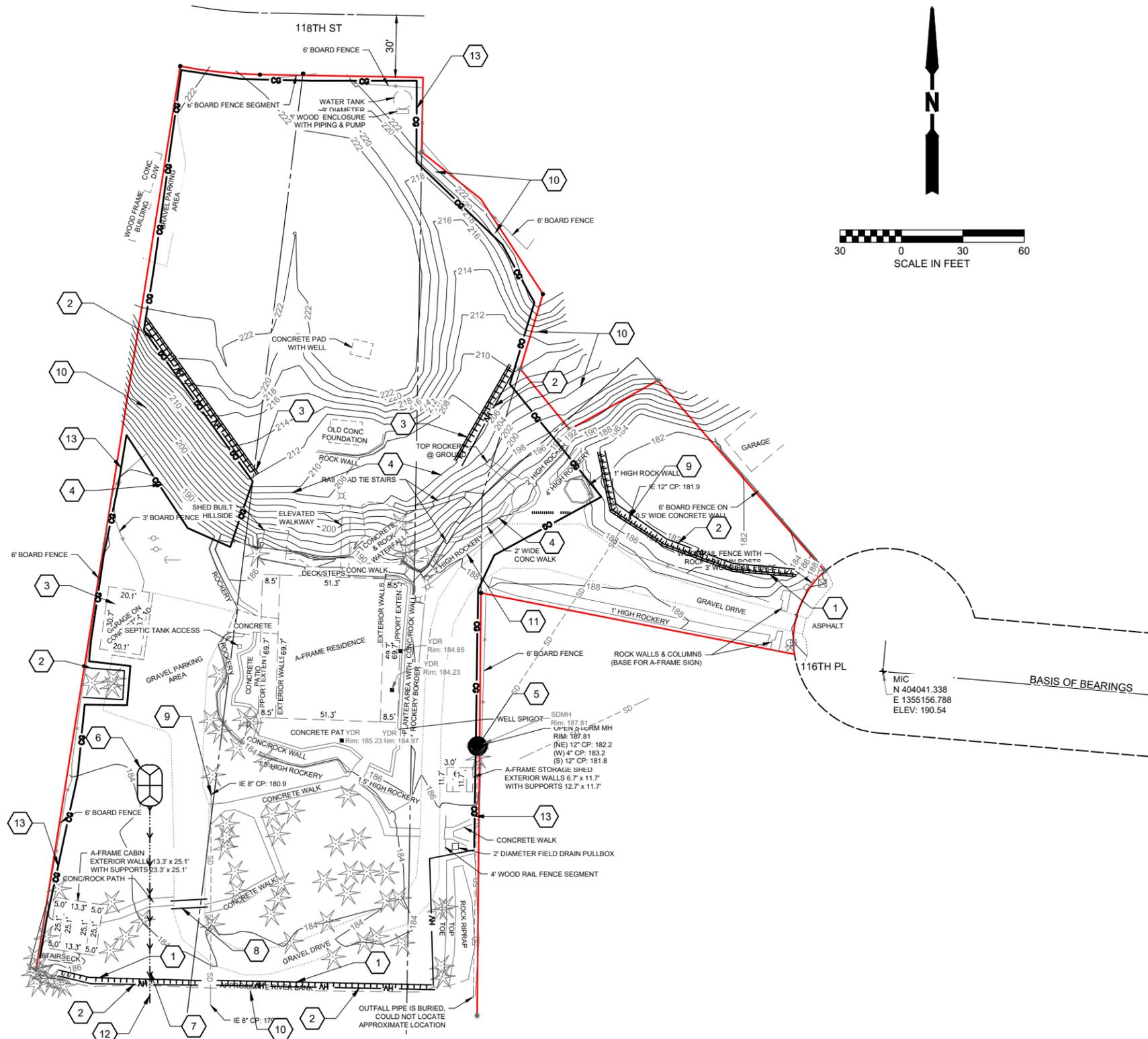
FUNDING NO. WC3056

FEMA FLOOD MITIGATION
TALOTAM LODGE

DEMOLITION SITE PLAN

REFERENCE SHEET NO.	----
SHEET	4
OF	8
SHEETS	8

SECTION 11, T. 30 N, R. 6 E., W.M.



CONSTRUCTION NOTES

- 1 PLACE STRAW BALE'S (STAKED WITH TEE POSTS), LINEAL MULCH PILE, OR PREPARE SILT FENCE PER SNO. CO. PUBLIC WRKS STANDARD PLAN.
- 2 PLACE ORANGE TENSAR RESOURCE PROTECTION FENCING BETWEEN DRIVEWAY AND SHORELINE OF THE SOUTH FORK STILLAGUAMISH RIVER
- 3 CREATE STRAW BALE, ARBORIST MULCH/ HOG-FUEL SITE STORAGE AREA (AND COVER DURING STORAGE WITH TARP AND SAND BAGS) TO REDUCE DEAD-HEAD TRUCKING DURING THE DISPOSAL OF ON-SITE DEBRIS TO TRANSFER STATIONS.
- 4 PROTECT STEEP SLOPES, AND TOE OF SLOPE WETLANDS DURING SITE WORK AND DEMOLITION ACTIVITIES (SEE ESC DETAILS SHEET)
- 5 PROTECT THE EXISTING TYPE 2 CATCH BASIN FROM STORM-WATER INPUTS BY PLACING A CONCRETE LID WITH A 24" ROUND FRAME AND MANHOLE COVER. RETROFIT THE TYPE 2 CATCH BASIN WITH A LADDER SYSTEM MOUNTED TO THE SIDE OF THE CATCH BASIN OR HANGING FROM THE INTERIOR OF THE CONCRETE LID OF THE CATCH BASIN TO FACILITATE MAINTENANCE ACCESS AND WORKER SAFETY.
- 6 CONSTRUCT 24" DEEP STORM-WATER SEDIMENT TRAP (BOTTOM 12' WIDE BY 20' LONG-NORTH SOUTH), LOCATED WEST OF THE DRIVEWAY BETWEEN THE GARAGE AND THE ACCESSORY DWELLING TO PROVIDE SETTling OF SILTY CONSTRUCTION SITE FLOWS DURING SITE DISTURBING ACTIVITIES.
- 7 CONSTRUCT DEPRESSION TO DRAIN THE SEDIMENT TRAP BY VEGETATION FILTERING TO THE SOUTH FORK STILLAGUAMISH RIVER, IF NATURAL GRADES ARE NOT ABLE TO ALLOW FOR A 1% SLOPE FROM THE SEDIMENT TRAP TO RIVER, EXCAVATE A DRAINAGE DITCH WITH 2:1 SLOPES, LINE THE DISTURBED SOILS WITH A NEEDLE PUNCHED NON-WOVEN PERMEABLE GEO-TEXTILE AND PLACE PEA GRAVEL IN THE BOTTOM OF THE TRENCH TO WEIGH DOWN FABRIC AND FILTER WATER FLOWING THROUGH THE DRAINAGE SYSTEM.
- 8 PLACE TWO 10' LONG SOFTWOOD POLES EMBEDDED INTO THE GROUND SURFACE TO PROVIDE A BRIDGE FOR THE EXCAVATOR ACCESS TO THE GUEST CABIN DURING STRUCTURE REMOVAL ACTIVITIES.
- 9 PLACE CATCH BASIN INLET PROTECTION SACKS OF FILTER FABRIC TO PICK UP FINE MATERIALS THAT MAY BE DIRECTED INTO THE EXISTING DRAINAGE SYSTEM BEFORE THE DRAINAGE SYSTEM IS DISCONNECTED. WHEN IT IS DISCONNECTED IT SHALL BE PLUGGED AT THE ABANDONED INLET WITH ONE 60 LB SACK OF QUICK-CRETE SUCH THAT IT WILL NOT BECOME A FUTURE SINKHOLE CREATED BY GROUNDWATER FLOW OF SATURATED SOILS IN THE FUTURE
- 10 PRESERVE NATIVE VEGETATION
- 11 INSTALL WATER BAR PER PLAN DETAIL @ DRIVEWAY TERMINAL ABANDONMENT
- 12 CONSTRUCT 2ND SEDIMENT TRAP SPILLWAY @ RIVER BANK
- 13 CLEARING LIMITS

LEGEND

- CLEARING LIMITS
- STAKED STRAW BALES, MULCH OR SILT FENCE
- HIGH VIZ / ORANGE TENSAR PROTECTION FENCE
- ESC INLET PROTECTION

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00551400004200, 00551400004301
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June 25, 2020 - 9:59 AM - SPWP-IP - X:IRSHIFLOODPLANFEMA FMA\FY2017\HOMEOWNERS\WHITCOMBE_SF_STILLY - AGREE TO APPLY\CADD\3056-SWPP.DWG - Layout Name: SWPP

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DESIGNED BY: D.WILSON	DRAWN BY: T.HEMRICH

PRELIMINARY

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DOUGLAS W. McCORMICK, P.E.
SNOHOMISH COUNTY ENGINEER

DATE APPROVED: _____

SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS

FUNDING NO. WC3056

FEMA FLOOD MITIGATION
TALOTAM LODGE

STORMWATER POLLUTION PREVENTION PLAN

REFERENCE SHEET NO.	----
SHEET	5
OF	8
SHEETS	8

SECTION 11, T. 30 N, R. 6 E., W.M.

SOUTH FORK STILLAGUAMISH RIVER RIPARIAN PLANT ESTABLISHMENT PLAN

NATIVE SHRUBS FROM THE FOLLOWING LIST SHALL BE INSTALLED A 6' BY 6' SPACING BETWEEN THE RIVER AND THE UPLAND TERRACE OF THE LOT TO THE NORTH:

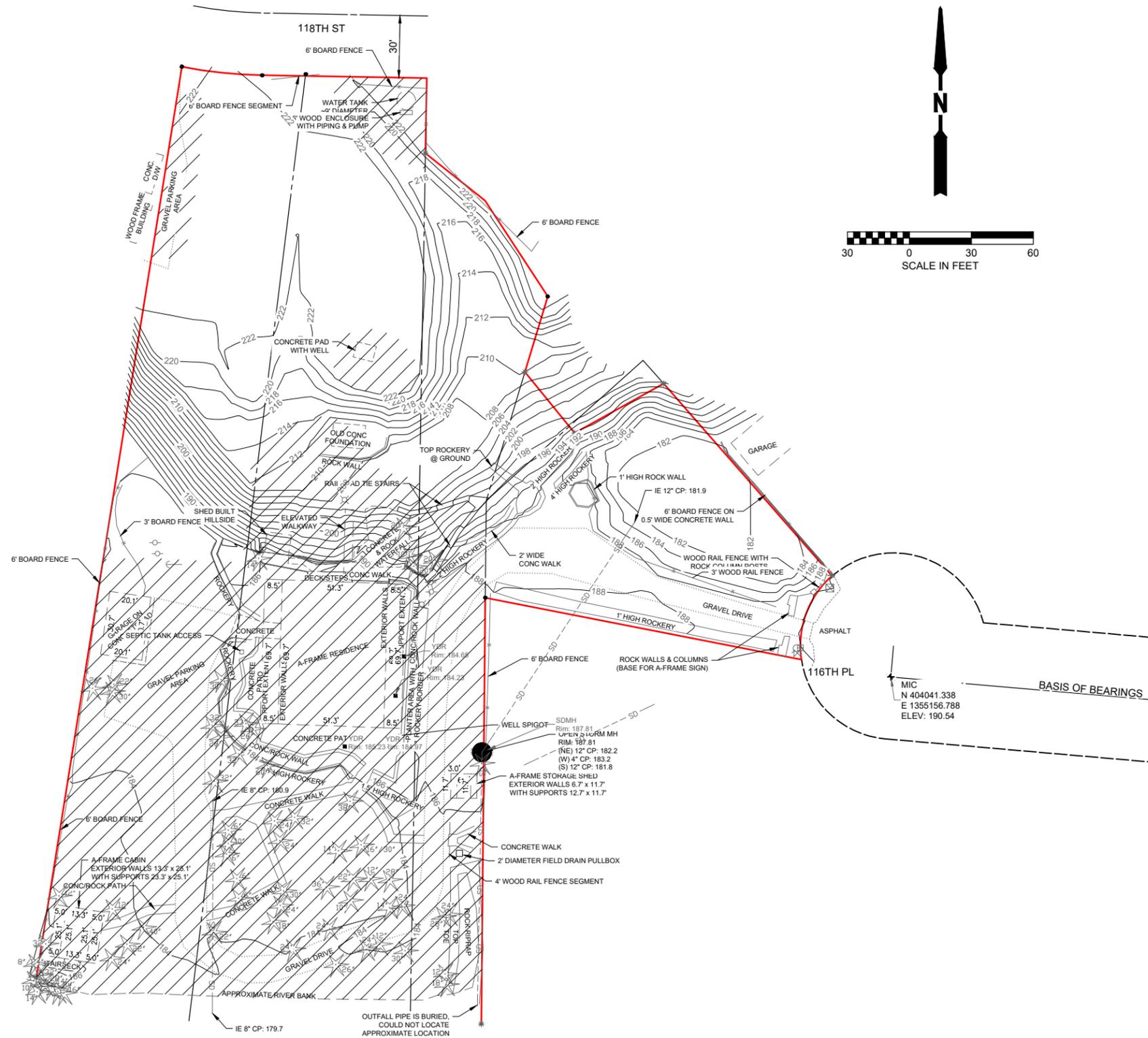
- RED FLOWING CURRENT
- PACIFIC NINEBARK
- SCOUERS WILLOW
- SALMON BERRY
- BEAKED FILBERT
- SNOWBERRY
- VINE MAPLE
- SWORD FERN
- DEER FERN
- OREGON GRAPE
- NOOTKA ROSE
- RED HUCKLEBERRY

NATIVE TREES FROM THIS LIST SHALL BE PLACED AT A 12' X 12' SPACING IN OPEN AREAS AND A 20' X 20' SPACING IN AREAS WITH EXISTING CANOPY FROM OLDER TREES

- WESTERN RED CEDAR
- RED ALDER
- BLACK COTTONWOOD
- WESTERN HEMLOCK
- GRAND FIR
- BLACK COTTONWOOD
- BITTER CHERRY

LEGEND

////// PLANTING AREAS - 51,020 SFT



SITE ADDRESS

17115 116TH PL NE
ARLINGTON, WA 98223

PARCEL NUMBER

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30061100100600, 00627300002700

June 25, 2020 - 10:00 AM - SPWP1P - X:\IRSH\FLOODPLAN\FEMA FMA\FY2017\HOMEOWNERS\WHITCOMBE_SF_STILLY - AGREE TO APPLY\CADD\3056-PLANT.DWG - Layout Name: PLANT

DATE	NO.	REVISION	BY



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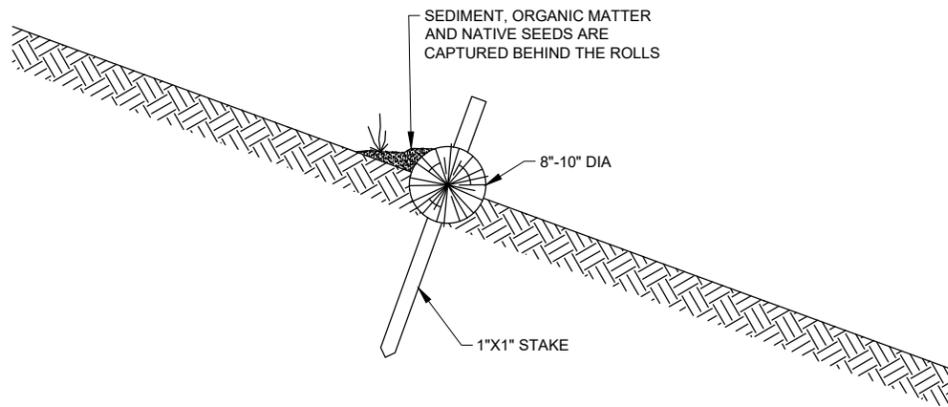
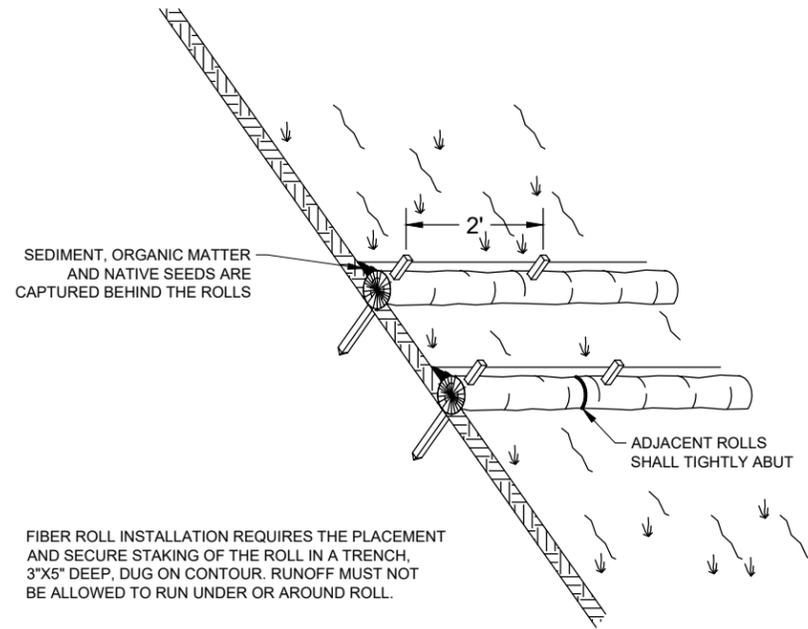
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FEMA FLOOD MITIGATION
TALOTAM LODGE

PLANTING PLAN

REFERENCE SHEET NO. ----
SHEET 6 OF 8 SHEETS

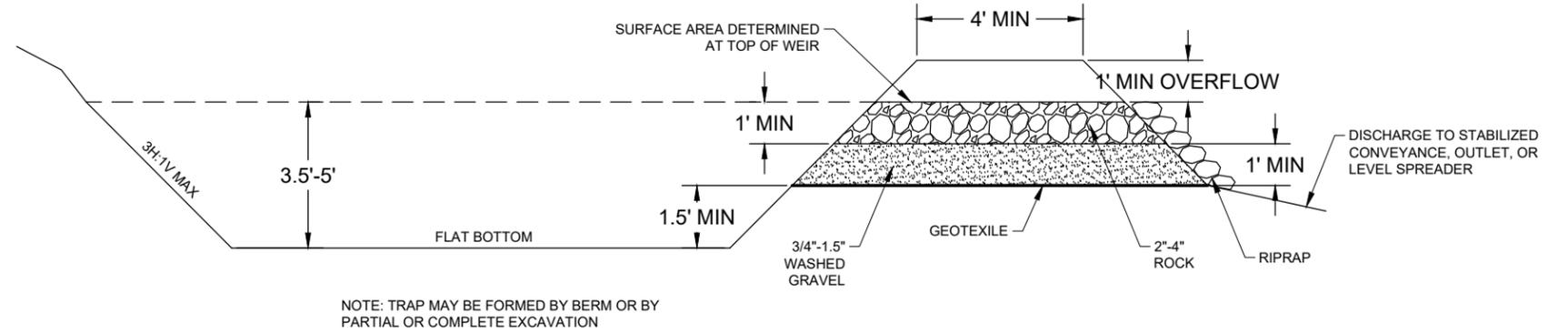
SECTION 11, T. 30 N, R. 6 E., W.M.



FIBER ROLL (STRAW WATTLE)
NTS

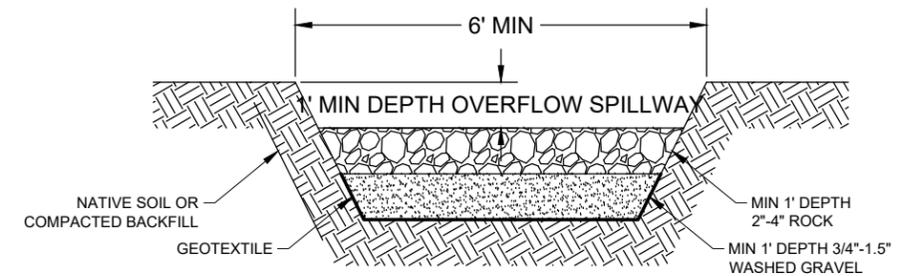
NOTES

CONIFER "CALL" LOGS MAY BE SUBSTITUTED FOR FIBER ROLL WHEN STAKED INTO SLOPE @ 75' (UPHILL), 40' (DOWNHILL)

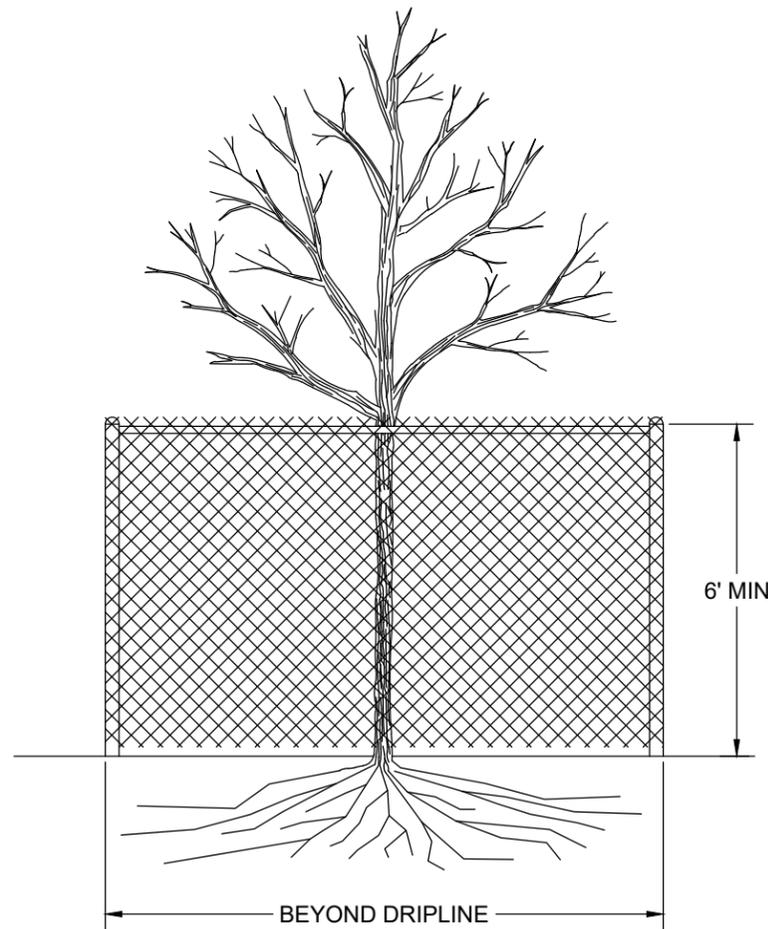


SEDIMENT TRAP
NTS

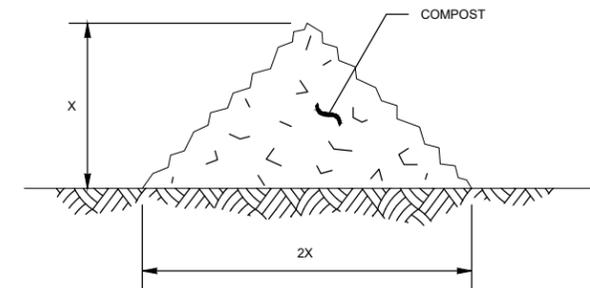
NOTE: TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION



SEDIMENT TRAP SPILLWAY
NTS



TREE PROTECTION
NTS



ARBORIST MULCH STRIPS
NTS

X = 1' - 0" FOR SLOPES 4H:1V OR FLATTER
X = 1' - 6" FOR SLOPES STEEPER THAN 4H:1V

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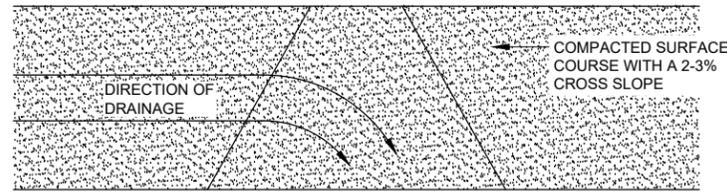
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TALOTAM LODGE

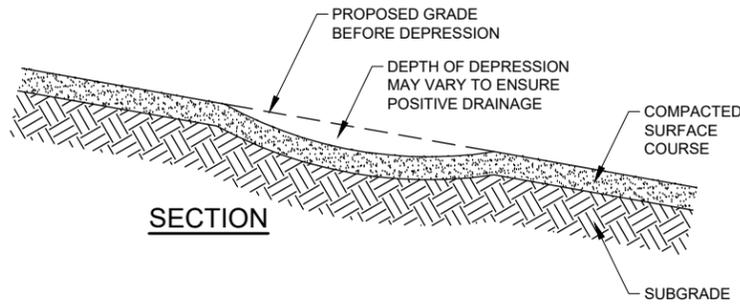
EROSION AND SEDIMENTATION
CONTROL DETAILS

REFERENCE SHEET NO. ---

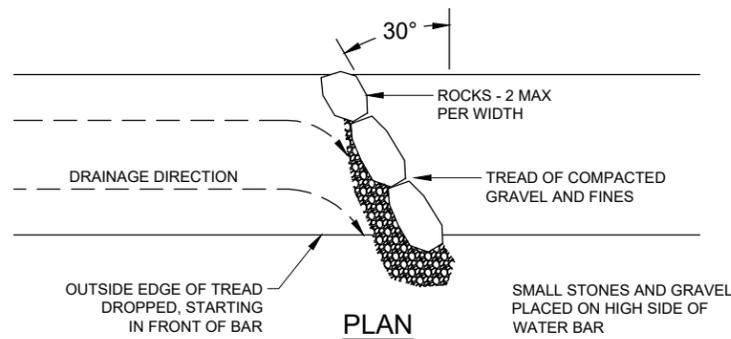
SHEET 7 OF 8 SHEETS



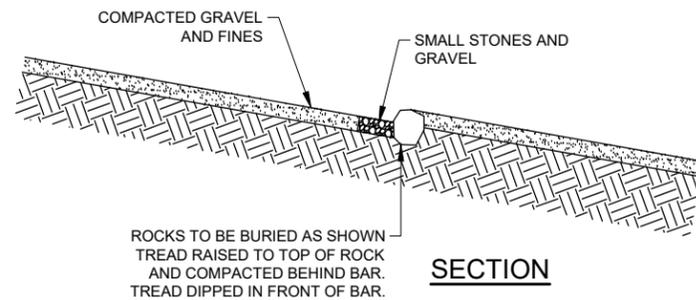
PLAN
CONTINUE THE DEPRESSION BEYOND THE TRAIL TREAD



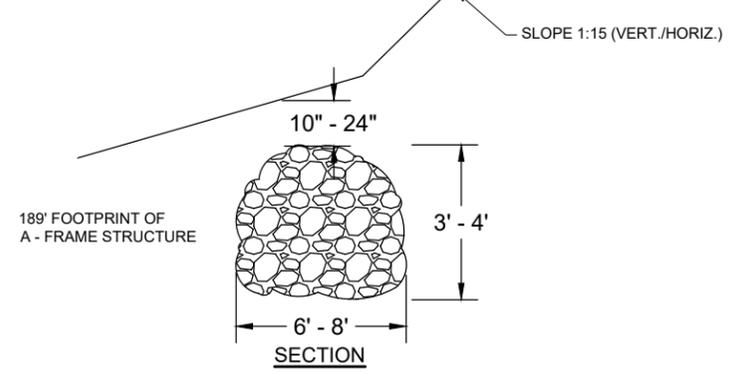
SECTION
TYPICAL DRAINAGE DEPRESSION
NTS



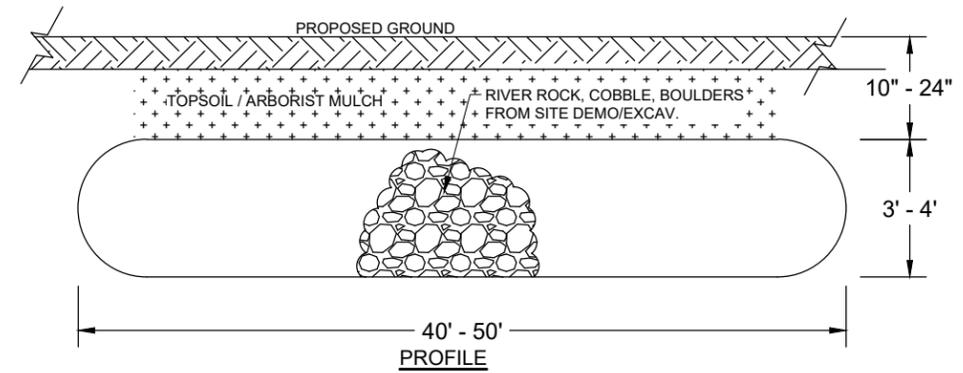
PLAN



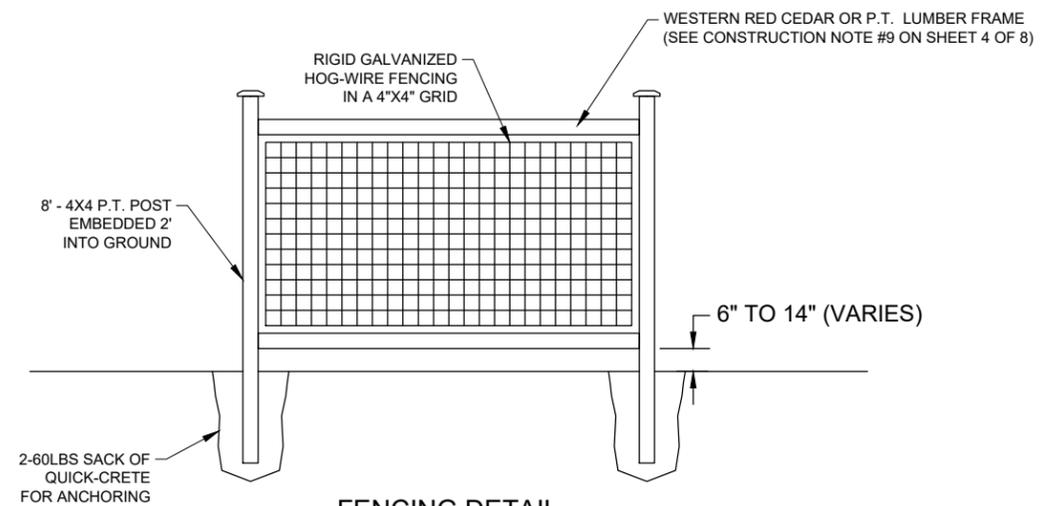
SECTION
ROCK WATER BAR
NTS



SECTION
RIVER ROCK, COBBLE, BOULDER COFFIN
(ON SITE MATERIALS ONLY)



PROFILE
RIVER ROCK, COBBLE, BOULDER COFFIN
(ON SITE MATERIALS ONLY)
GEOTECH LEVEL SPREADER TO DRAIN DETAIL
NTS



FENCING DETAIL
NTS

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EROSION AND SEDIMENTATION
CONTROL DETAILS**

REFERENCE SHEET NO. ----
SHEET 8 OF 8 SHEETS