

PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.

# 5 MILE PIT EXPANSION

KING COUNTY, WASHINGTON

## CLEARING AND GRADING PERMIT

JULY 9, 2021

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16	C3.100	DRAINAGE AND HAUL ROAD DETAILS

PROJECT TEAM

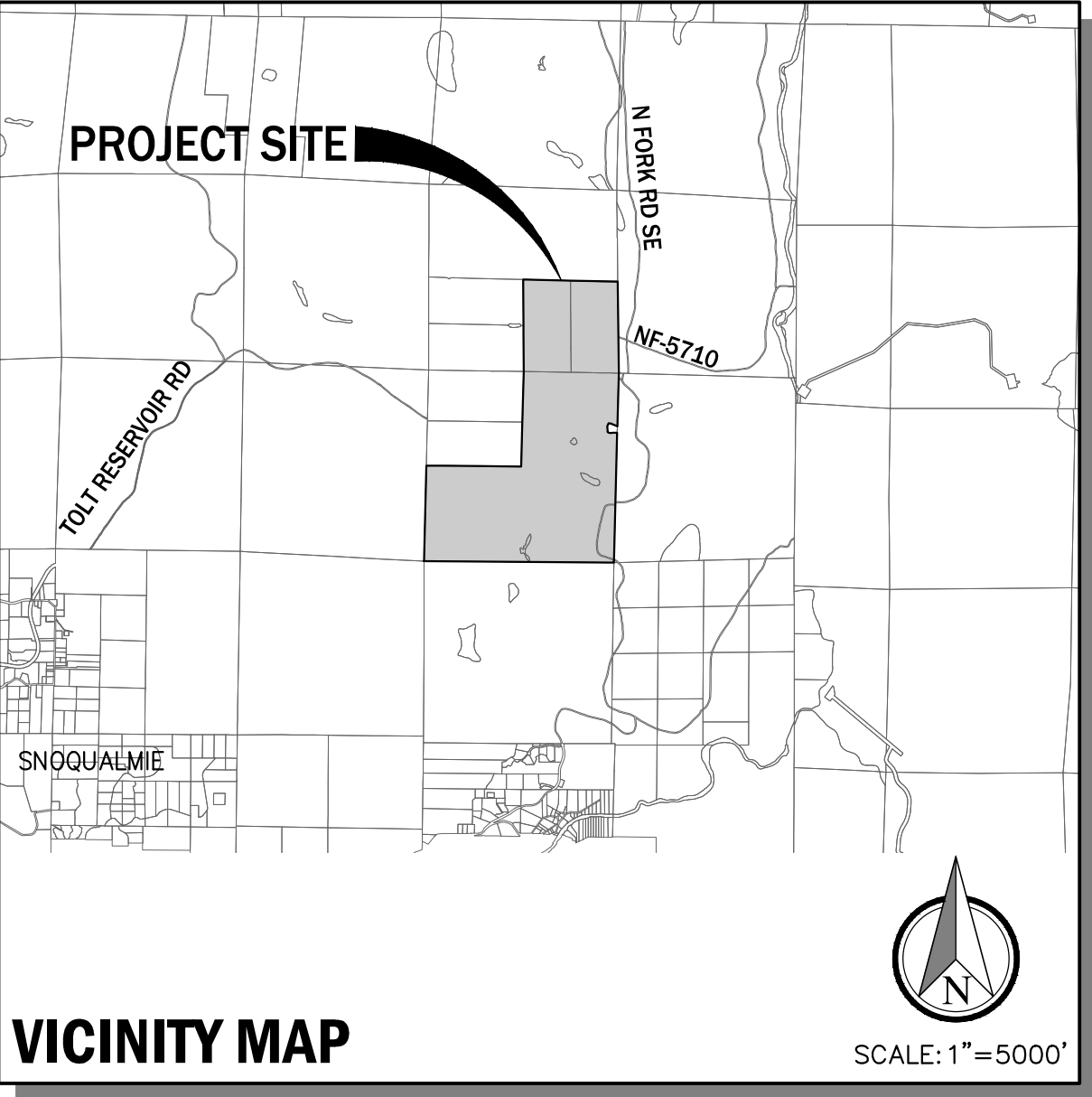
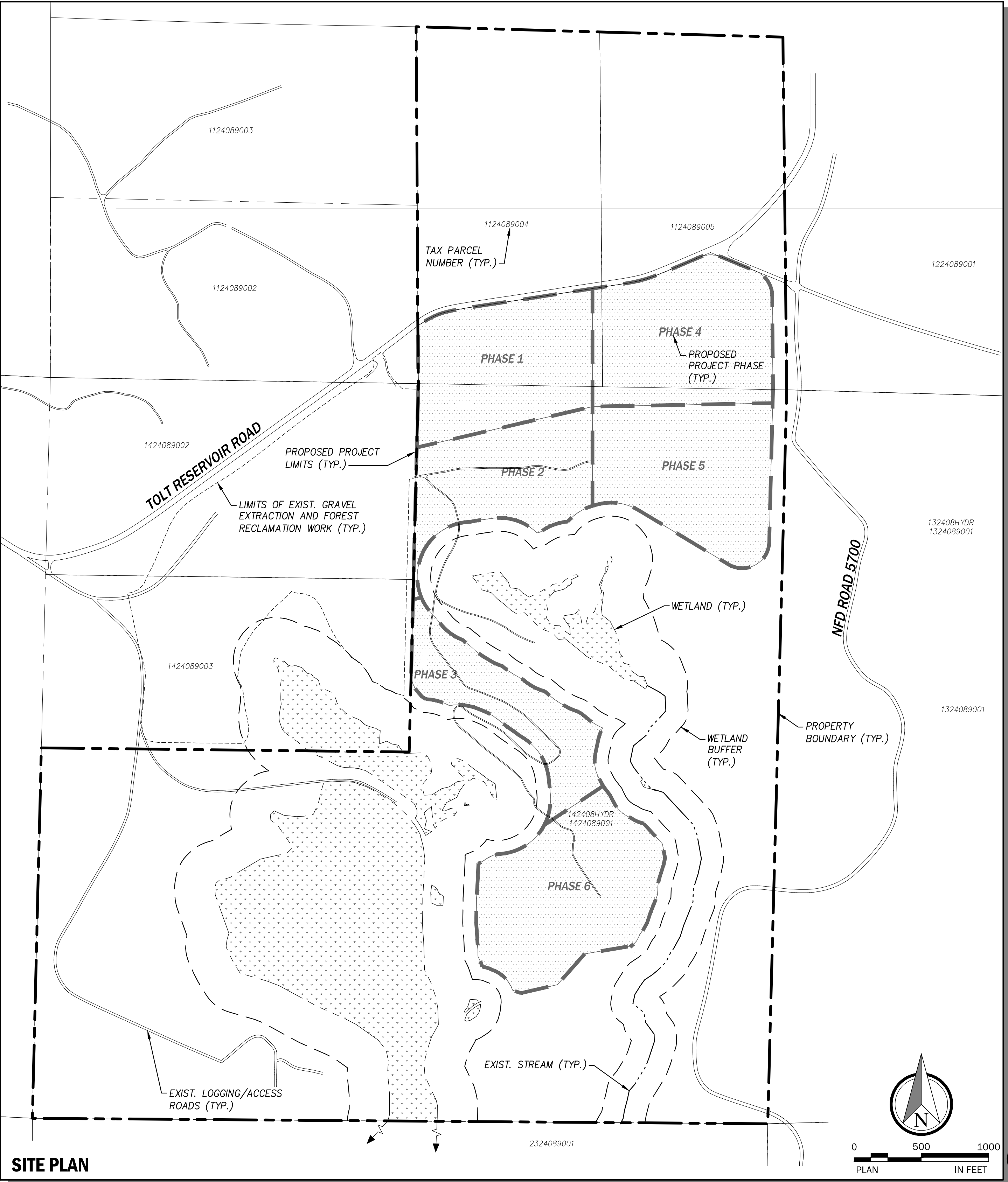
<b>OWNER</b> <b>WEYERHAEUSER COMPANY</b> <b>CONTACT: BRIAN A. OSTROM, LG</b> 220 OCCIDENTAL AVENUE S. SEATTLE, WA 98104 PHONE: (206) 539-4592	<b>APPLICANT</b> <b>HOS BROTHERS CONSTRUCTION, INC.</b> <b>CONTACT: MARK ANDERSON</b> PO BOX 1788 WOODINVILLE, WA 98072 PHONE: (425) 864-3008	<b>CIVIL ENGINEER</b> <b>CPH CONSULTANTS</b> <b>CONTACT: JAMIE SCHROEDER, PE</b> 11321-B NE 120TH STREET KIRKLAND, WA 98034 PHONE: (425) 285-2390
<b>GEOTECHNICAL ENGINEER</b> <b>BENNETT CONSULTING, PLLC</b> <b>CONTACT: GEORGE H. BENNETT, LHG</b> 46129 SE 130TH STREET NORTH BEND, WA 98045 PHONE: (425) 785-8390	<b>ECOLOGIST</b> <b>ECOLOGICAL LAND SERVICES, INC</b> <b>CONTACT: MARA MCGRATH</b> 1157 3RD AVENUE, SUITE 220A LONGVIEW, WA 98632 PHONE: (360) 578-1371	

APPROX. EARTHWORK QUANTITIES

EARTHWORK QUANTITIES WERE ESTIMATED BY PROJECT GEOTECHNICAL ENGINEER AND ASSUME MAX. DEPTH AND FILL CAN BE ACHIEVED ACROSS ALL PHASES:

FILL: 6,000,000 CY  
CUT: 3,000,000 CY  
NET: 3,000,000 CY (FILL)

THESE VALUES ARE NOT FOR CONSTRUCTION BID PURPOSES. THE CONTRACTOR SHALL USE THEIR OWN MEANS AND METHODS TO ESTIMATE EARTHWORK QUANTITIES.



PROJECT INFORMATION

<b>GENERAL</b>	
PARCEL NOS.:	1424089001, 1124089004, 1124089005
SITE ADDRESS:	NONE ASSIGNED
	UNINCORPORATED KING COUNTY, WA 98065
ZONING:	F, FOREST
PROPOSED USE:	GROWING & HARVESTING FOREST PRODUCTION AND MINERAL EXTRACTION AND PROCESSING

<b>SITE DEVELOPMENT</b>	
TOTAL SITE AREA:	503.7 AC (21,941,172 SF)
BASE DENSITY:	0.0125 DU/AC
MAXIMUM DENSITY:	NONE PROVIDED
MINIMUM LOT AREA:	80 ACRES
MAXIMUM LOT DEPTH/WDTH RATIO:	NONE PROVIDED
MINIMUM STREET SETBACK:	50 FEET
MINIMUM INTERIOR SETBACK:	100 FEET
BASE HEIGHT:	35 FEET
MAXIMUM FLOOR/LOT RATIO:	NONE PROVIDED
MAXIMUM IMPERVIOUS SURFACE::	DOES NOT APPLY

<b>UTILITY PURVEYORS/PUBLIC SERVICES</b>	
WATER:	DOES NOT APPLY
SANITARY SEWER:	DOES NOT APPLY
SCHOOL DISTRICT:	SNOQUALMIE VALLEY #410
FIRE DISTRICT:	DOES NOT APPLY
ELECTRIC/NATURAL GAS:	DOES NOT APPLY
COMMUNICATION/CABLE:	DOES NOT APPLY

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

**C|P|H**  
CONSULTANTS

Site Planning • Civil Engineering  
Landscape Architecture • Land Use Consulting

11321-B NE 120th Street  
Kirkland, WA 98034 • (425) 285-2390  
101 South Wenatchee Avenue, Suite C3  
Wenatchee, WA 98801 • (509) 293-7731  
www.cphconsultants.com





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WATER: DOES NOT APPLY  
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SCHOOL DISTRICT: SNOQUALMIE VALLEY #410  
FIRE DISTRICT: DOES NOT APPLY  
ELECTRIC/NATURAL GAS: DOES NOT APPLY  
COMMUNICATION/CABLE: DOES NOT APPLY

SURVEY DATA

**LEGAL DESCRIPTION**  
TPN: 142408-9001  
ENTIRE SECTION LESS NW ¼ CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

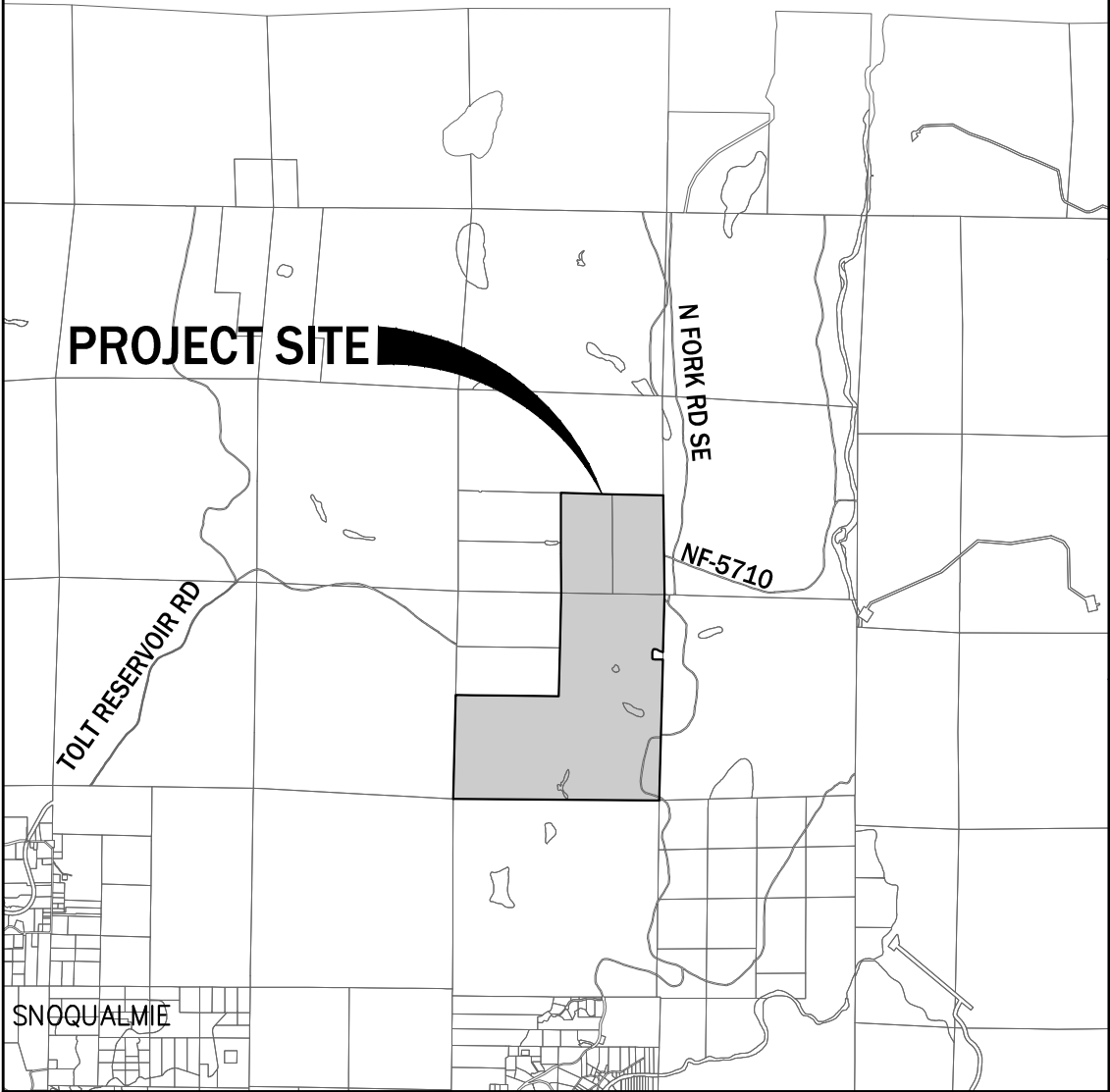
TPN: 112408-9004  
W ½ OF SE ¼ - LOT 3 PER KC SUBD. EXIST. REQUEST #L10M0006 DTD 3-9-10  
CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

TPN: 112408-9005  
E ½ OF SE ¼ - LOT 2 PER KC SUBD. EXIST. REQUEST #L10M0006 DTD 3-9-10  
CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

**TAX PARCEL NUMBER**  
142408-9001, 11240-8900, 112408-9005

**SURVEY NOTE:**  
SURVEY INFORMATION PROVIDED IS BASED ON PUBLICLY AVAILABLE GIS DATA. THIS SET OF DOCUMENTS IS NOT A SURVEY AND SHALL NOT BE TREATED AS ONE. LOCATIONS OF WETLANDS, WETLAND BUFFERS, OTHER SENSITIVE AREAS, PROPERTY LINES WERE PROVIDED BY THE APPLICANT FOR OUR DESIGN PROPOSED IMPROVEMENTS ARE SHOWN AS APPROXIMATE LOCATION AND HAVE NOT BEEN LOCATED BASED ON A ACTUAL SURVEY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF PROJECT LIMITS, PROPERTY LINES AND SENSITIVE AREA PRIOR TO BEGINNING WORK.

Vicinity Map Scale 1"=5000'



**Notice Required**  
Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days  
  
but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

DOES NOT APPLY	DOES NOT APPLY
Sanitary Sewer	Phone
DOES NOT APPLY	DOES NOT APPLY
Water District	Phone
DOES NOT APPLY	DOES NOT APPLY
Gas Company	Phone
DOES NOT APPLY	DOES NOT APPLY
Power Company	Phone

Call Before You Dig 811 or 10800-424-5555

- Notes**
- The Developer is required to notify the Department of Local Services, Permitting Division, Land Use Inspection Section (206) 296-6600, three days prior to the beginning of construction for a preconstruction conference and specifically request inspection before beginning:  
A. Installing siltation and erosion control measures  
B. Clearing and grubbing  
C. Earthwork  
D. Installation of any underground utility  
E. Before placing subbase, base or paving surfaces  
F. Installation of any forms or placing any concrete  
2. A permit must be obtained from the office of the Resident Engineer, Washington State Department of Transportation, before any construction is started on any existing state route.  
3. A Hydraulic Project Approval (HPA) Permit must be obtained from the Washington State Department of Fisheries prior to any work when required.

Bonding Information

Restoration Bond Amount \$

Performance Bond Amount \$

**Site Plan Approval**  
Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way. Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval. Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.

**PRO RATA SHARE ASSESSMENT ANALYSIS**  
(County Use Only)  
Section Township Range Tax Parcel Number  
Site Location is within the drainage shed(s)  
Pro Rata Share Assessment(s) are: ☐ Required ☐ Not Required  
from the site due to development for increased storm water runoff.  
Peak Runoff Assessment Rate(\$ ) per cfs increases (10 year, 2 hour storm)  
Peak Volume Assessment Rate(\$ ) per Ac. Ft. increases (10 year, 2 hour storm)

**AGREEMENTS, PLAN REFERENCES, PERMITS ETC.**  
(To be completed by consultant)  
  
Preliminary Plat Approval/Permit Issued Date: DOES NOT APPLY  
  
Expiration Date: DOES NOT APPLY  
  
Other Related Permit Numbers Received:  
Right-of-Way Use Permit  
Grading X  
  
Building/Structural  
  
Other  
  
Board feet of tree removal on site: 1,000,000  
Cubic yards of material hauled on/off the site: 9,000,000  
Is this a highly sensitive area site? (Yes/No): NO  
  
Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

Emergency  
911  
  
Police-Fire-Rescue

**RECOMMENDED FOR APPROVAL**  
(To be completed by King County)

Date	Review Engineer
Date	Senior Engineer
Date	Traffic & Planning Engineer
Date	Sensitive Areas
Date	Structural Review Engineer
Date	Other

**APPROVED FOR CONSTRUCTION**  
Department of Local Services, Permitting Division

Date Development Engineer

**PROJECT CONTACT INFORMATION**  
(To be completed by Consultant)  
HOS BROTHERS CONSTRUCTION  
MARK ANDERSON (425)864-3008  
Phone  
PO BOX 1788, WOODINVILLE, WA 98072  
Address  
  
WEYERHAEISER COMPANY  
BRIAN A. OSTROM, LG (206)539-4592  
Phone  
220 OCCIDENTAL AVENUE S., SEATTLE, WA 98104  
Address

☒ Corporation  
☐ Partnership  
☐ Individual  
CPH CONSULTANTS  
JAMIE SCHROEDER (425)285-2392  
Phone  
11321-B NE 120TH STREET, KIRKLAND, WA 98034  
Address

☐ ☒ Certified Surveyor  
☐ ☒ Engineer

Site Planning • Civil Engineering  
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JAMIE SCHROEDER, PE (425) 285-2390  
Project Coordinator Phone

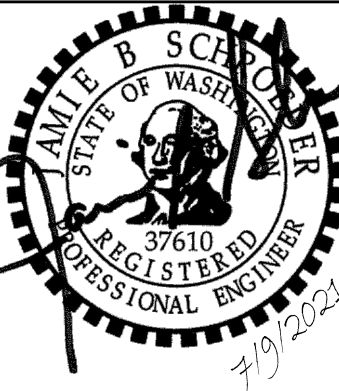
**5 MILE PIT EXPANSION**  
CLEARING AND GRADING PERMIT

KING COUNTY COVER SHEET

WASHINGTON

KING COUNTY



































































Permit Number:  
Related Permit Numbers:



**C0.01**  
Sheet 2 of 16



LEGEND

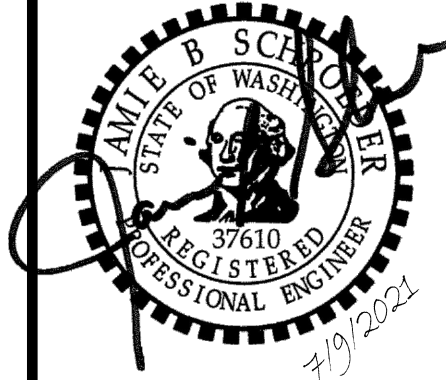
	EXISTING	PROPOSED
ROADWAY CENTERLINE	_____	_____
PROJECT BOUNDARY LINE	_____	_____
PROPERTY BOUNDARY LINE	_____	_____
RIGHT-OF-WAY LINE	_____	_____
EASEMENT LINE	_____	_____
EDGE OF PAVEMENT LINE	_____	_____
10' CONTOUR LINE	-----290-----	_____
2' CONTOUR LINE	-----	_____
SANITARY SEWER MAIN	-----SS-----	SS SS SS
WATER LINE	-----W-----	W W W
FIRE SUPPLY	-----F-----	_____
STORM PIPE	-----SD-----	=====
GAS LINE	-----G-----	_____
FENCE LINE	-----X-----	_____
POWER LINE	-----PO-----	_____
BURIED POWER LINE	-----UGP-----	_____
UTILITY EASEMENT	-----	_____
TELEPHONE LINE	-----TL-----	_____
BURIED TELEPHONE LINE	-----TL-----	_____
SWALE	_____	_____
SILT FENCE	_____	---X---X---X---X---
CONSTRUCTION FENCING	_____	---//---//---//---
CLEARING LIMIT	_____	_____
SANITARY SEWER CLEAN OUT		
SANITARY SEWER MANHOLE		
STORM DRAIN CATCH BASIN - TYPE I		
STORM DRAIN CATCH BASIN - TYPE II		
STORM DRAIN INLET (NO CATCH)		
STORM DRAIN CULVERT	=====	=====
WATER CAP/PLUG		
WATER COUPLING		
GUARD POST		
REDUCER		
THRUST BLOCK		
WATER METER		
2 NOZZLE FIRE HYDRANT		
3 NOZZLE FIRE HYDRANT		
FLANGE/BUND FL JOINT		
MECHANICAL JOINT		
PUSH-ON/HUB JOINT		
THREAD JOINT		
AIR RELIEF VALVE		
BLOW-OFF VALVE		
BUTTERFLY VALVE		
CHECK VALVE		
GATE/GENERAL VALVE		
PLUG VALVE		
GAS METER		
GAS VALVE		
PAD MOUNTED TRANSFORMER		
POWER VAULT		
TRANSMISSION TOWER (SCALEABLE)		
UTILITY POLE		
POWER POLE		
UTILITY POLE ANCHOR		
TELEPHONE RISER		
TELEPHONE VAULT		

ABBREVIATIONS

AC	ASPHALT CONCRETE PAVEMENT
AP	ANGLE POINT
ATB	ASPHALT TREATED BASE
AVE	AVENUE
BCR	BEGIN CURB RETURN
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
BPE	BEARING PAD ELEVATION
CASP	CRITICAL AREA SITE PLAN
CL	CENTERLINE
CB	CATCH BASIN
CDP	CONTROLLED DENSITY FILL
CMPC	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CPP	CORRUGATED POLYETHYLENE PIPE
CSBC	(W/SMOOTH INTERIOR WALLS)
CSTC	CRUSHED SURFACING BASE COURSE
DIA.	CRUSHED SURFACING TOP COURSE
DI	DIAMETER
DW	DUCTILE IRON
E	DRIVEWAY
ECR	EAST
EL.	END CURB RETURN
EOP	ELEVATION
ESC	EDGE OF PAVEMENT
EDDS	EROSION AND SEDIMENT CONTROL
ESD	ENGINEERING DESIGN AND
ESMT.	DEVELOPMENT STANDARDS
EVA	ENTERING SIGHT DISTANCE
EXIST.	EASEMENT
FL	EMERGENCY VEHICLE ACCESS
FLC	EXISTING
GFC	FLOW LINE
HORIZ	FLANGE
IE	FACE OF CURB
INT	GROUND FLOOR ELEVATION
KC	HORIZONTAL
LCPE	INVERT ELEVATION
LF	INTERSECTION
LT	KING COUNTY
LUD	LINED CORRUGATED POLYETHYLENE PIPE
LUI	LINEAL FEET
MAX.	LEFT
MDRT	LAKEHAVEN UTILITY DISTRICT
MH	LAND USE INSPECTOR
MIN.	MAXIMUM
MJ	MAJOR DEVELOPMENT REVIEW TEAM
N	MANHOLE
NIC	MECHANICAL JOINT
O.C.	NORTH
PC	NOT IN CONTRACT
PE	ON CENTER
PI	POINT OF CURVATURE
PL	POINT OF INTERSECTION
PT	PLACE
PVI	POINT OF TANGENCY
PUE	POINT OF VERTICAL INTERSECTION
REQ'D.	PUBLIC UTILITY EASEMENT
ROW	REQUIRED
RT	RIGHT-OF-WAY
S	RIGHT
SD	SOUTH
SP	STORM DRAIN
SS	SPACE
SSD	SANITARY SEWER
STA	STOPPING SIGHT DISTANCE
TESC	STATION
TOC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP.	TOP OF CURB
TBW	TYPICAL
TOW	TOP BACK OF WALK
UNO	TOP OF WALL
VERT.	UNLESS NOTED OTHERWISE
WSDOT	VERTICAL
W/	WASHINGTON DEPT. OF TRANSPORTATION
W	WITH
WS	WEST
	WATER SERVICE

GENERAL PROJECT NOTES

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KING COUNTY CODE (KCC), THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KORDCS), WASHINGTON STATE DOT (WSDOT) STANDARD SPECIFICATIONS AND THE CONDITIONS OF PRELIMINARY APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF PERMITTING AND ENVIRONMENTAL REVIEW (DPER) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DPER PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
3. APPROVAL OF THIS ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.)
4. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DPER'S DEVELOPMENT INSPECTOR, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
8. FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS OF KORDCS CHAPTER 8 ARE SUBMITTED TO THE DPER'S DEVELOPMENT INSPECTOR THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE NAVD88 UNLESS OTHERWISE APPROVED BY DPER.
10. DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
11. ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT MAXIMUM DENSITY PER WSDOT STANDARD SPECIFICATIONS 2-03.3(14)D, METHOD C.
12. OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DPER AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KORDCS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL OR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY KING COUNTY.



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
ABBREVIATION AND GENERAL NOTES

KING COUNTY  
WASHINGTON

CLIENT

HOS BROTHERS CONSTRUCTION  
7733 W BOSTIAN ROAD  
WOODINVILLE, WA 98072  
PHONE:(425)481-5569

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Landscape Architecture • Land Use Consulting  
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PROJECT NO.  
0051-20-011

DRAWING  
C0.02

SHEET 3 OF 16

King County DLS – Permitting Approval			
Review Engineer	Date		
Senior Engineer	Date		
Development Engineer	Date		





**811**  
Now what's below.  
Call before you dig.

## DRAINAGE NOTES

- (1) **PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO DPER PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.**
- (2) **ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.**
- (3) **STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.**
- (4) **ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.**
- (5) **ALL CATCH BASIN GRATES SHALL CONFORM TO KCRDCS, WHICH INCLUDES THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS AND "PROPERTY OF KING COUNTY", EXCEPT THAT PRIVATE DRAINAGE SYSTEMS SHALL NOT HAVE THE WORDS "PROPERTY OF KING COUNTY".**
- (6) **ALL DRIVEWAY CULVERTS LOCATED WITHIN KING COUNTY RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE PER KCRDCS.**
- (7) **ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8"/40%-70% PASSING; 2"- 4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH KCRDCS.**
- (8) **DRAINAGE OUTLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION BY KING COUNTY. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:**
  - a) **EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.**
  - b) **OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2" x 4" STAKE MARKED "STORM" OR "DRAIN". THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.**
  - c) **PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN KCRDCS AND, IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.**
  - d) **DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.**
  - e) **THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION).**
  - f) **ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOME OWNER.**
- (1) **ALL DISTURBED PERVIOUS AREAS (COMPACTED, GRADED, LANDSCAPED, ETC.) OF THE DEVELOPMENT SITE MUST DEMONSTRATE ONE OF THE FOLLOWING, IN ACCORDANCE WITH KCC AND THE LOW IMPACT DEVELOPMENT (LID) COMPONENTS OF THE APPROVED SITE PLAN: THE EXISTING DUFF LAYER SHALL BE STAGED AND REDISTRIBUTED TO MAINTAIN THE MOISTURE CAPACITY OF THE SOIL, OR; AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPACITY.**
- (2) **SEASONAL CLEARING IS LIMITED BETWEEN OCTOBER 1 AND APRIL 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.**
- (3) **IMPROVEMENTS AND/OR BUILDINGS SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE "IN OPERATION", (KCC 9.04).**

### EXAMPLE CONSTRUCTION SEQUENCE

- (1) APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- (2) THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- (3) THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (KING COUNTY SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- (4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- (5) THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED), AND ADJACENT PROPERTIES IS MINIMIZED.
- (6) THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.).
- (7) THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- (8) ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- (9) ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- (10) THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH (MORE FREQUENTLY AS REQUIRED BY THE DPER SITE INSPECTOR) OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- (11) AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- (12) ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADUALLY GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. FLOW CONTROL BMP FACILITY AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.
- (13) COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
- (14) PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEED IN WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEED IN AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DPER INSPECTOR FOR REVIEW.

(1) THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY DPER PRIOR TO CONSTRUCTION (KCC 16.04, 16.70, 14.20).


- (2) ~~ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES IN COUNTY ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH KORDCS. ROCKERIES OUTSIDE OF ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.~~

### EXAMPLE CONSTRUCTION SEQUENCE

CONSTRUCTION STORMWATER POLLUTION PREVENTION RECOMMENDED CONSTRUCTION SEQUENCE

- (1) PRE-CONSTRUCTION MEETING.
- (2) POST SIGN WITH NAME AND PHONE NUMBER OF CSWMP/ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
- (3) FLAG OR FENCE CLEARING LIMITS.
- (4) INSTALL CATCH BASIN PROTECTION AND FLOW CONTROL BMP AREA PROTECTION AS REQUIRED.
- (5) GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- (6) INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- (7) CONSTRUCT SEDIMENT PONDS AND TRAPS.
- (8) GRADE AND STABILIZE CONSTRUCTION ROADS.
- (9) CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT. CONSTRUCT SWPPS CONTROLS IN ANTICIPATION OF SCHEDULED CONSTRUCTION ACTIVITY (E.G., CONCRETE-RELATED PH MEASURES FOR UTILITY, VAULT OR ROADWAY CONSTRUCTION)
- (10) MAINTAIN EROSION CONTROL AND SWPPS MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- (11) RELOCATE EROSION CONTROL AND SWPPS MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL AND POLLUTANT PROTECTION IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY CONSTRUCTION STORMWATER POLLUTION PREVENTION STANDARDS.
- (12) COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, OR EQUIVALENT.
- (13) STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- (14) SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- (15) UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPs REMOVED IF APPROPRIATE.

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

NO.	DATE	REVISION	CK	BY
	7/9/21	CLEARING AND GRADING PERMIT SUBMITTAL		
△				
				
<div> <div> <h1>5 MILE PIT EXPANSION</h1> <h2>CLEARING AND GRADING PERMIT</h2> <h3>KING COUNTY STANDARD PLAN NOTES</h3> <p>KING COUNTY WASHINGTON</p> </div> <div> <p>CLIENT</p> <p>HOS BROTHERS CONSTRUCTION 7733 W BOSTON ROAD WOODINVILLE, WA 98072 PHONE: (425) 481-5569</p> </div> <div> <h1>C P H</h1> <h2>CONSULTANTS</h2> <p>Site Planning • Civil Engineering Landscape Architecture • Land Use Consulting</p> <p>11321-4 NE 120th Street Kirkland, WA 98034 • (425) 985-2390</p> <p>101 South Wendelchee Avenue, Suite C3 Wenatchee, WA 98801 • (509) 293-7731</p> <p>www.cphconsultants.com</p> </div> </div>				
PROJECT NO. 0051-20-011				
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SHEET 4 OF 16				



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TBLOCK  
CNOT512011  
CSIT512011  
CDSGN512011

PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.

SURVEY DATA

LEGAL DESCRIPTION

TPN: 142408-9001  
ENTIRE SECTION LESS NW 1/4 CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

TPN: 112408-9004

W 1/4 OF SE 1/4 - LOT 3 PER KC SUBD. EXIST. REQUEST #L10M0006 DTD 3-9-10  
CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

TPN: 112408-9005

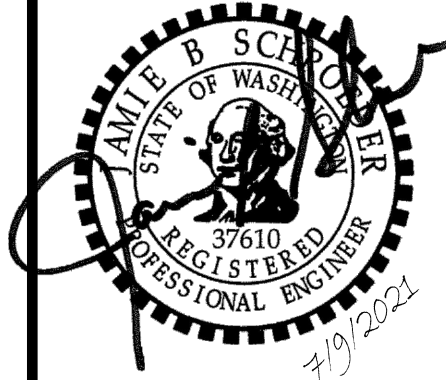
E 1/4 OF SE 1/4 - LOT 2 PER KC SUBD. EXIST. REQUEST #L10M0006 DTD 3-9-10  
CLASSIFIED FOREST LAND PURSUANT TO SUBSECTION 2 & 4 OF RCW 84.33.120

TAX PARCEL NUMBER

142408-9001, 11240-8900, 112408-9005

SURVEY NOTE:

SURVEY INFORMATION PROVIDED IS BASED ON PUBLICLY AVAILABLE GIS DATA. THIS SET OF DOCUMENTS IS NOT A SURVEY AND SHALL NOT BE TREATED AS ONE. LOCATIONS OF WETLANDS, WETLAND BUFFERS, OTHER SENSITIVE AREAS, PROPERTY LINES WERE PROVIDED BY THE APPLICANT FOR OUR DESIGN PROPOSED IMPROVEMENTS ARE SHOWN AS APPROXIMATE LOCATION AND HAVE NOT BEEN LOCATED BASED ON A ACTUAL SURVEY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF PROJECT LIMITS, PROPERTY LINES AND SENSITIVE AREA PRIOR TO BEGINNING WORK.



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
EXISTING CONDITIONS

WASHINGTON

KING COUNTY

CLIENT

HOS BROTHERS CONSTRUCTION  
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WOODINVILLE, WA 98072  
PHONE:(425)481-5569

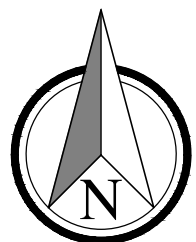
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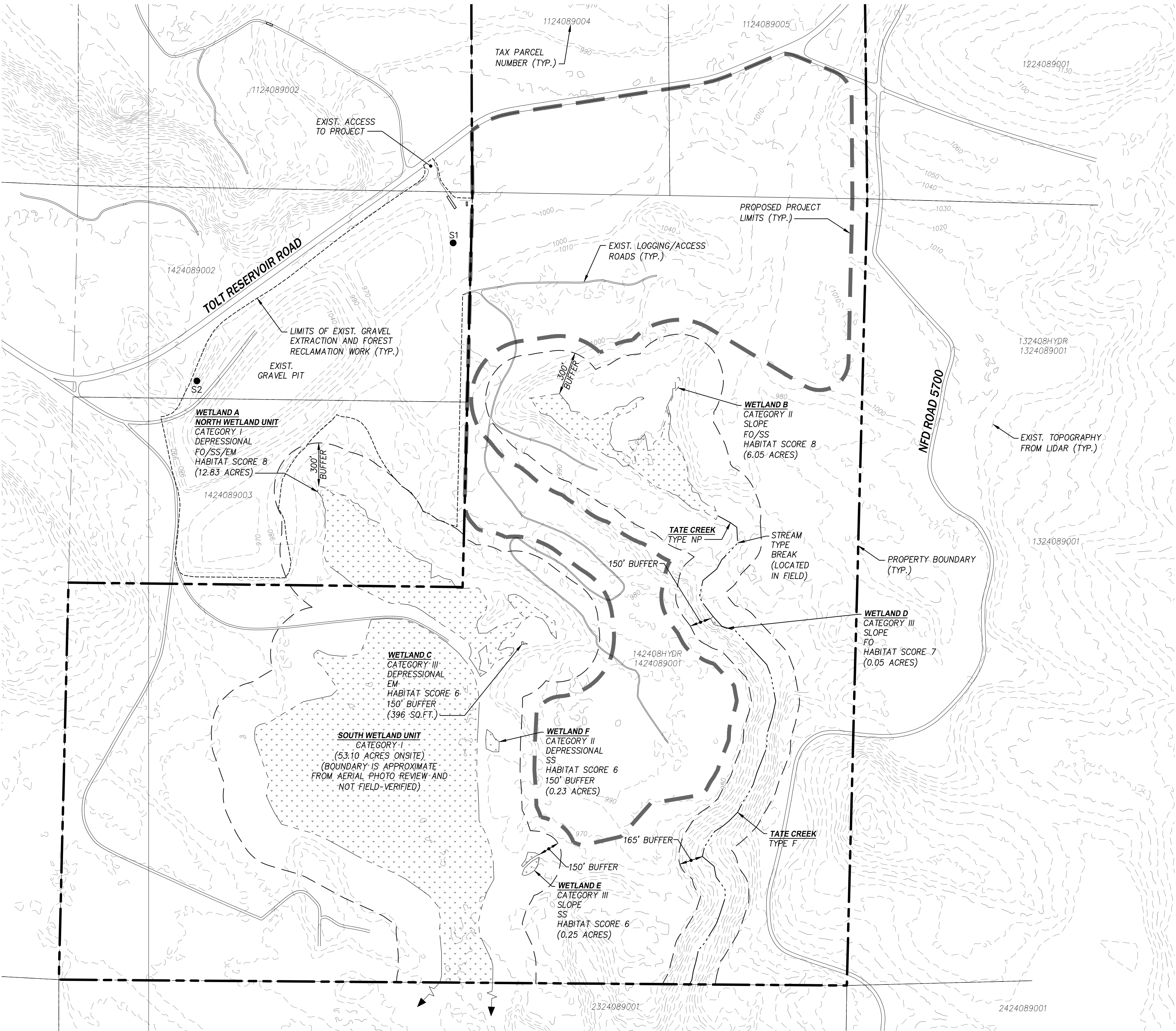
SHEET 5 OF 16



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Review Engineer	Date		
Senior Engineer	Date		
Development Engineer	Date		

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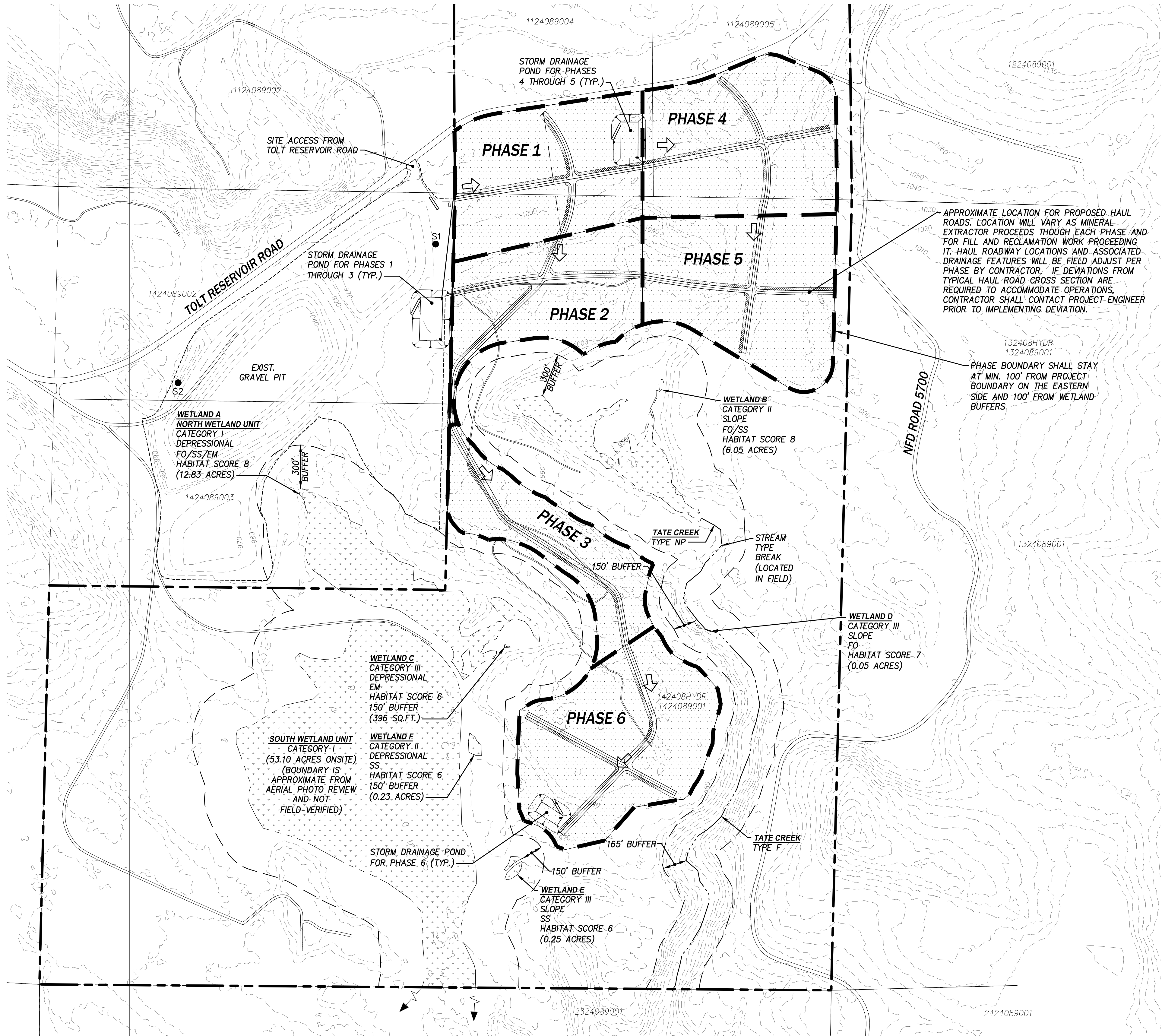
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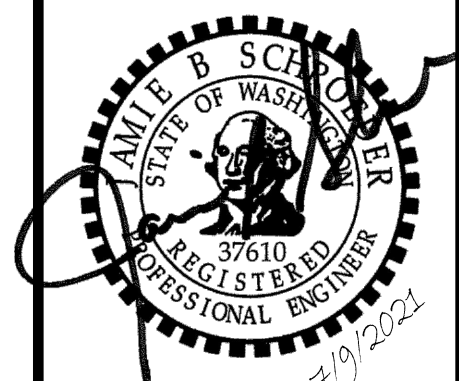
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VICINITY  
CUSD512011  
TBLOCK  
CDSGN512011

PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



**LEGEND**

- EXIST. LOGGING/ACCESS ROAD
- PROPOSED PHASING LINE (20 AC MAX. PER PHASE)
- PROPOSED SD INFILTRATION FACILITY
- EXIST. GRADE CONTOUR
- WETLAND
- DIRECTION OF WORK
- DISTURBANCE AREA
- WETLAND AREA



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
PHASING PLAN

KING COUNTY WASHINGTON

CLIENT  
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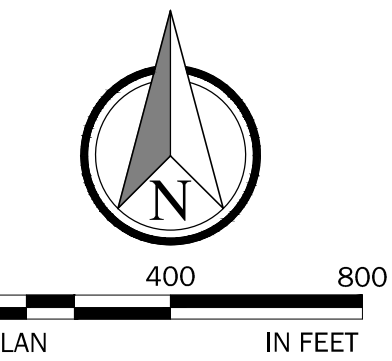
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Development Engineer	Date

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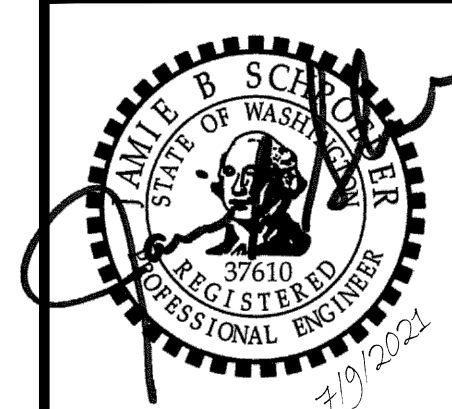
PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.

LEGEND

- APPROX. LIMIT OF GRADING (SEE DET. ON SHT. C1.00)
- SILT FENCE (SEE DET. ON SHT. C1.100)
- CONSTRUCTION FENCE (SEE DET. ON SHT. C1.100)  
APPROX. LOCATION
- TEMPORARY INTERCEPTOR DITCH WITH  
ROCK CHECK DAM (SEE DET. ON SHT. C1.100)
- APPROX. GRADE BREAK
- POND/SEDIMENT POND

NOTES:

- TEMPORARY CULVERTS, INTERCEPTOR DITCHES, AND CHECK DAMS ARE SHOWN APPROXIMATE. ACTUAL EXTENTS AND LOCATIONS MAY VARY TO FACILITATE SITE CONDITIONS AND CONSTRUCTION ACTIVITIES.
- ALL PERMANENT STORM DRAIN FACILITIES ACTIVE DURING CONSTRUCTION SHALL BE CLEANED AND/OR REPAIRED TO GOOD WORKING CONDITION PRIOR TO FINAL PROJECT CLOSEOUT.
- EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER/ENGINEER OF ANY CONFLICTS WITH PROPOSED IMPROVEMENTS AND/OR CONSTRUCTION.
- SEE SHEET C0.03 FOR KING COUNTY STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES AND RECOMMENDED CONSTRUCTION SEQUENCE



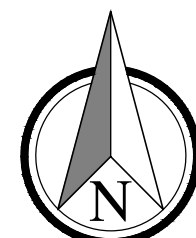
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CLEARING AND GRADING PERMIT  
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WASHINGTON

KING COUNTY

KING COUNTY STANDARD SWPPS PLAN NOTES

- ALL POLLUTANTS, INCLUDING WASTE MATERIALS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OF SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.
- MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY pH MODIFYING SOURCES. THE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR pH IN THE RECEIVING WATER.



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PLAN IN FEET

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Senior Engineer	Date		
Development Engineer	Date		

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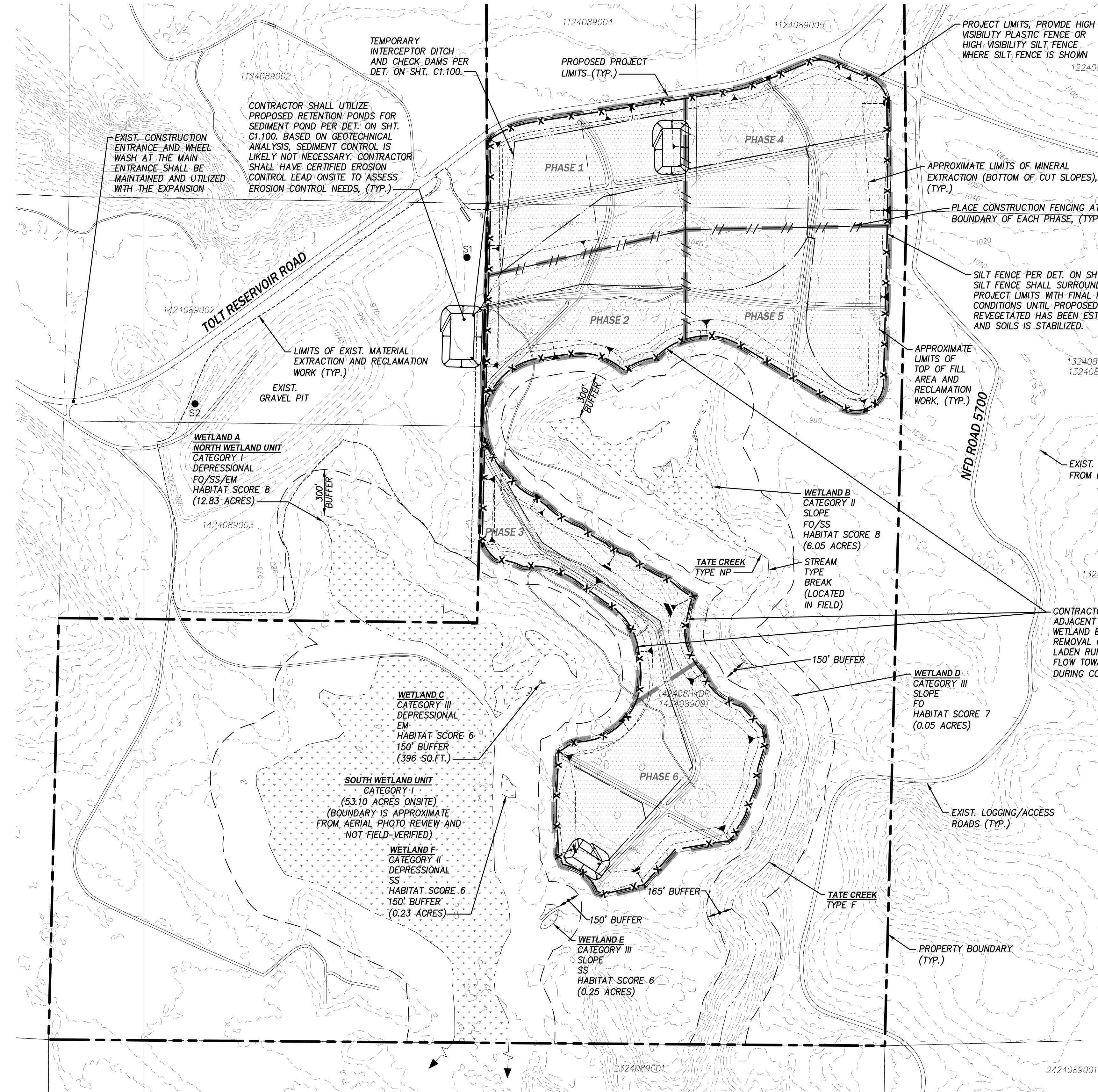
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SHEET 7 OF 16



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1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

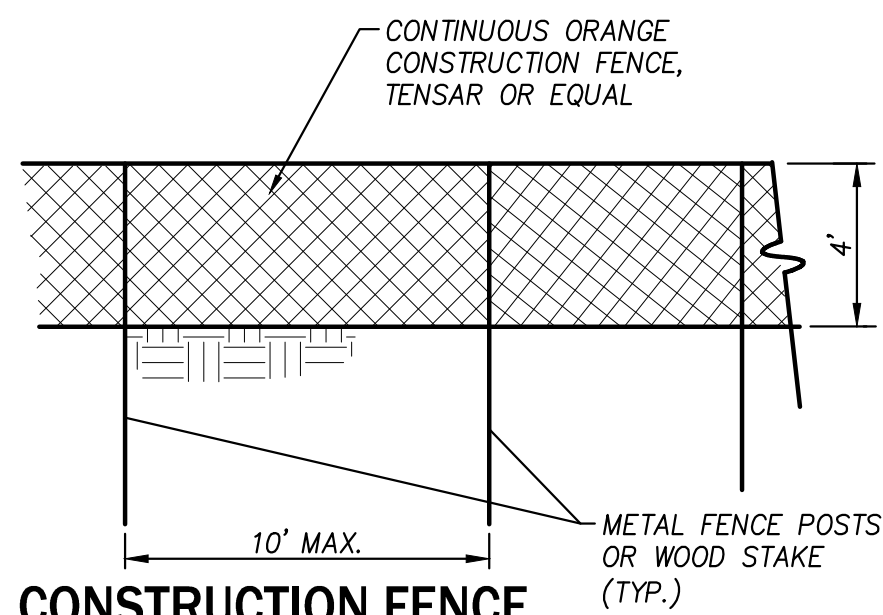
STANDARD NOTES:

- A. THE FILTER FABRIC FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL, CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
- B. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- C. A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- D. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENE SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- E. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- F. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE E. APPLYING.
- G. THE TRENCH SHALL BE BACKFILLED WITH ¾-INCH MINIMUM WASHED GRAVEL.
- H. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- I. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

MAINTENANCE STANDARDS:

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

NOT TO SCALE



## CONSTRUCTION FENCE

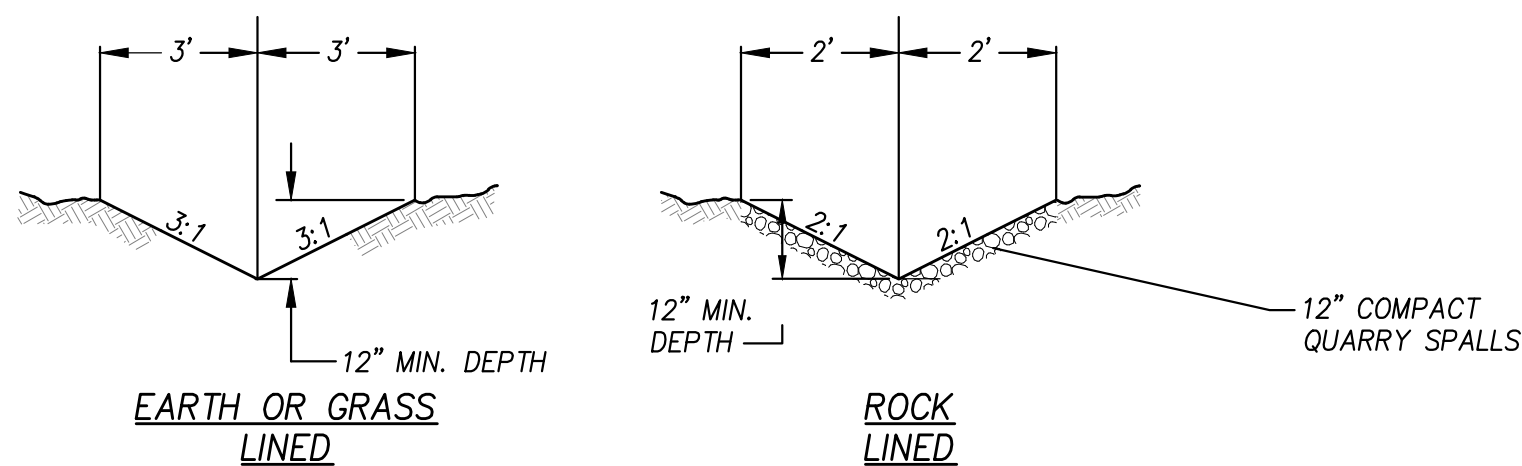
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Know what's below.  
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## TEMPORARY DIKES AND SWALES NOTES

1. SEED AND MULCH SHALL BE APPLIED WITHIN 5 DAYS OF DIKE CONSTRUCTION (SEE VEGETATION).
2. THE UPSLOPE SIDE OF THE DIKE SHALL PROVIDE POSITIVE DRAINAGE TO THE DIKE OUTLET.
3. NO EROSION SHALL OCCUR AT THE DIKE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
4. SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP, OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.



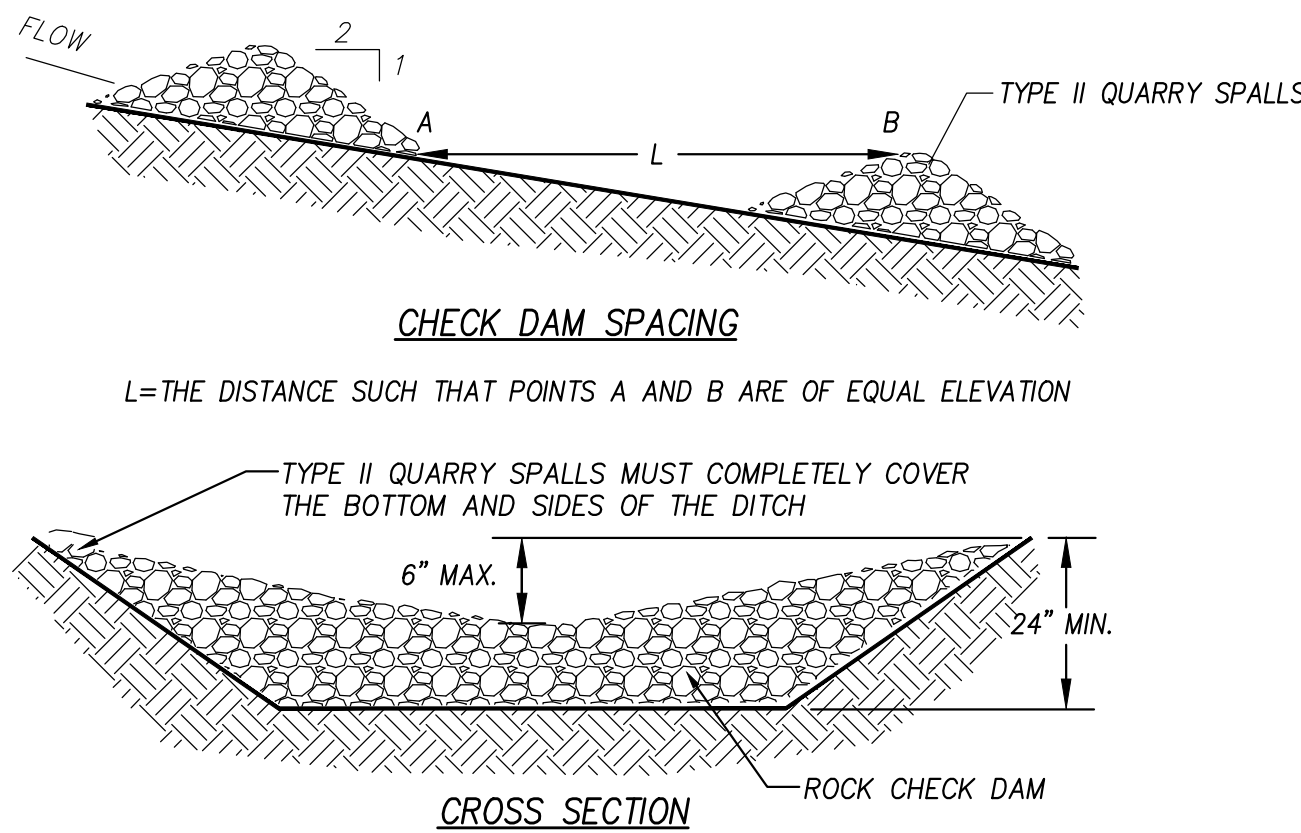
NOTES:

1. EARTH OR GRASS LINED DITCHES SHALL HAVE SLOPES OF 6% OR LESS AND A MAXIMUM FLOW VELOCITY OF 5FPS.
2. ROCK CHECK DAMS SHALL BE USED IN EARTH OR GRASS LINED DITCHES FOR SLOPES GREATER THAN 3%.
3. ROCK LINED DITCHES SHALL BE USED WHEN SLOPES EXCEED 6% OR FOR FLOW VELOCITY GREATER THAN 5FPS.

MAINTENANCE STANDARDS:

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. IF THE CHANNEL CAPACITY IS INSUFFICIENT FOR THE DESIGN STORM, IT MUST BE DETERMINED WHETHER THE PROBLEM IS LOCAL (E.G., A CONSTRUCTION OR BEND) OR THE CHANNEL IS UNDERDESIGNED. IF THE PROBLEM IS LOCAL, THE CHANNEL CAPACITY MUST BE INCREASED THROUGH CONSTRUCTION OF A BERM(S) OR BY EXCAVATION. IF THE PROBLEM IS UNDERDESIGNED, THE DESIGN ENGINEER SHALL BE NOTIFIED AND THE CHANNEL REDESIGNED TO A MORE CONSERVATIVE STANDARD.
3. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

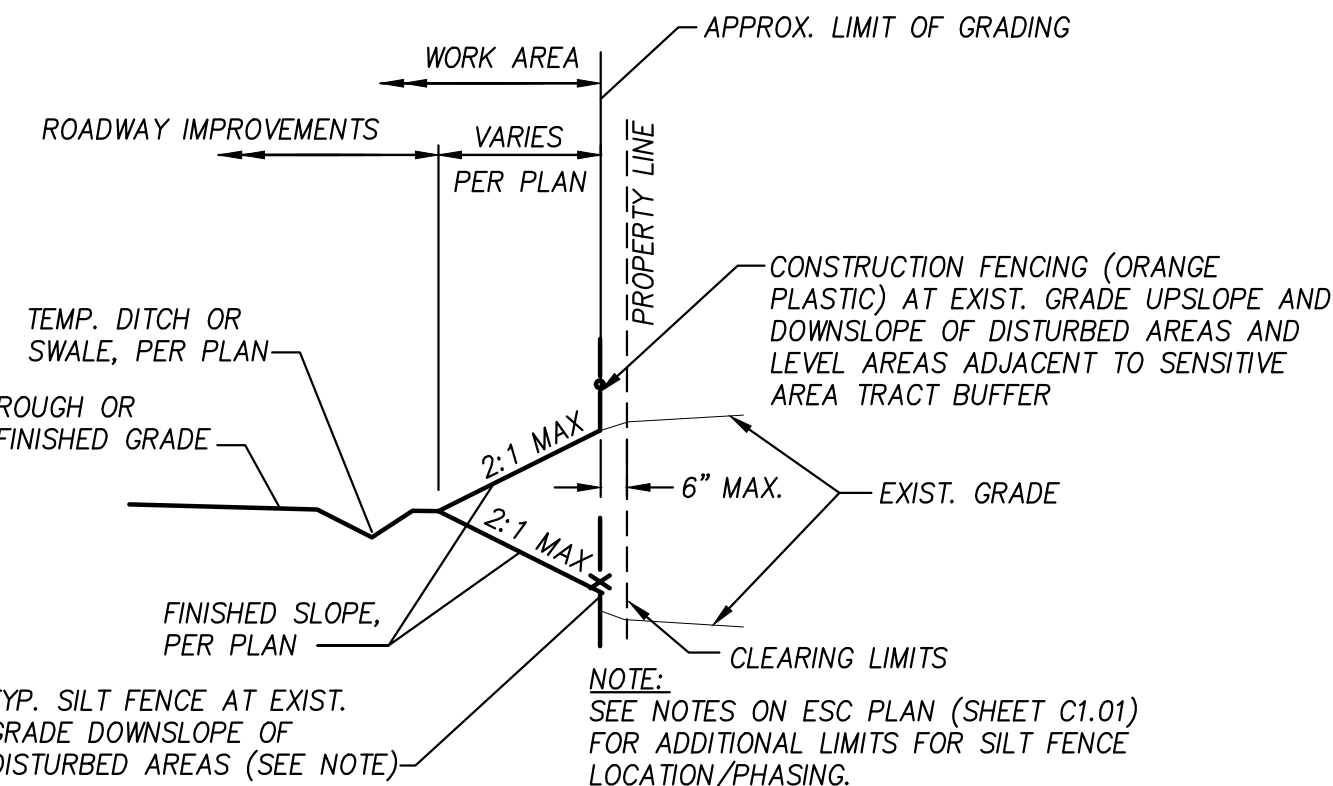
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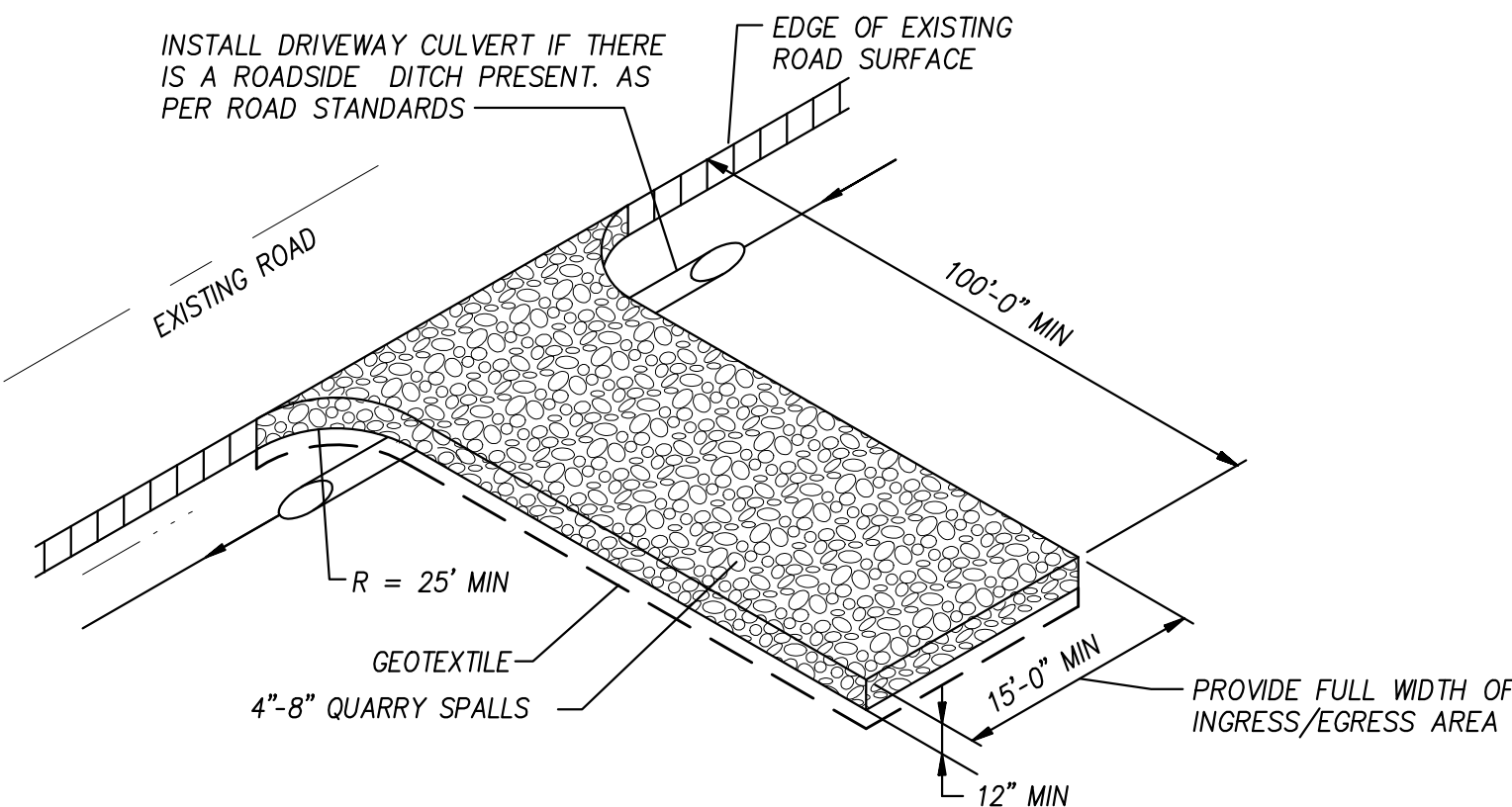
## CHECK DAM NOTES

1. THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
2. ROCK CHECK DAMS SHALL BE CONSTRUCTED OF 2-TO 4-INCH DIAMETER ROCK. THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
3. LOG CHECK DAMS SHALL BE CONSTRUCTED OF 4-- TO 6-INCH DIAMETER LOGS. THE LOGS SHALL BE EMBEDDED INTO THE SOIL AT LEAST 18 INCHES.
4. IN CASE OF CRACK-LINED DITCHES AND SWALES, CHECK DAMS SHALL BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER DAM REMOVAL.
5. CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL DAM HEIGHT OR BEFORE.

NOT TO SCALE



NOT TO SCALE



CONSTRUCTION ENTRANCE NOTES:

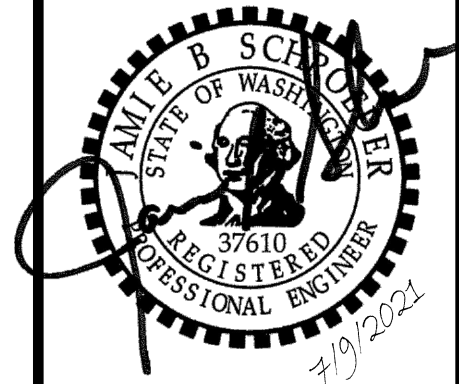
1. THE STABILIZED CONSTRUCTION EXIT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REVISE TO KING COUNTY REFERENCE. SEE WSDOT STANDARD PLAN 1-80.10.01 FOR ADDITIONAL DETAIL AND CONSTRUCTION PLAN NOTES.
2. CONSTRUCT STABILIZED CONSTRUCTION EXITS WITH A 12-INCH THICK PAD OF 4-INCH TO 8-INCH QUARRY SPALLS, A 4-INCH COURSE OF ATB, OR USE OF EXISTING PAVEMENT. DO NOT USE CRUSHED CONCRETE, CEMENT, OR CALCIUM CHLORIDE FOR CONSTRUCTION EXIT STABILIZATION.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD, IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS. THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH SILT FENCE.

MAINTENANCE STANDARDS:

1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
3. ANY SEDIMENT TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. STREET WASH WATER SHALL BE COLLECTED AND DISPOSED OF AS PROCESS WASTEWATER, OR DISPOSED OF ON-SITE USING APPROVED METHODS/BMPS.
4. IMMEDIATELY REMOVE QUARRY SPALLS FROM THE ROADWAY THAT HAVE BEEN TRANSPORTED FROM THE STABILIZED CONSTRUCTION EXIT.
5. UPON PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.

NOT TO SCALE

BMP C105

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# 5 MILE PIT EXPANSION

# CLEARING AND GRADING PERMIT

## TESC DETAILS

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PROJECT NO.  
0051-20-011

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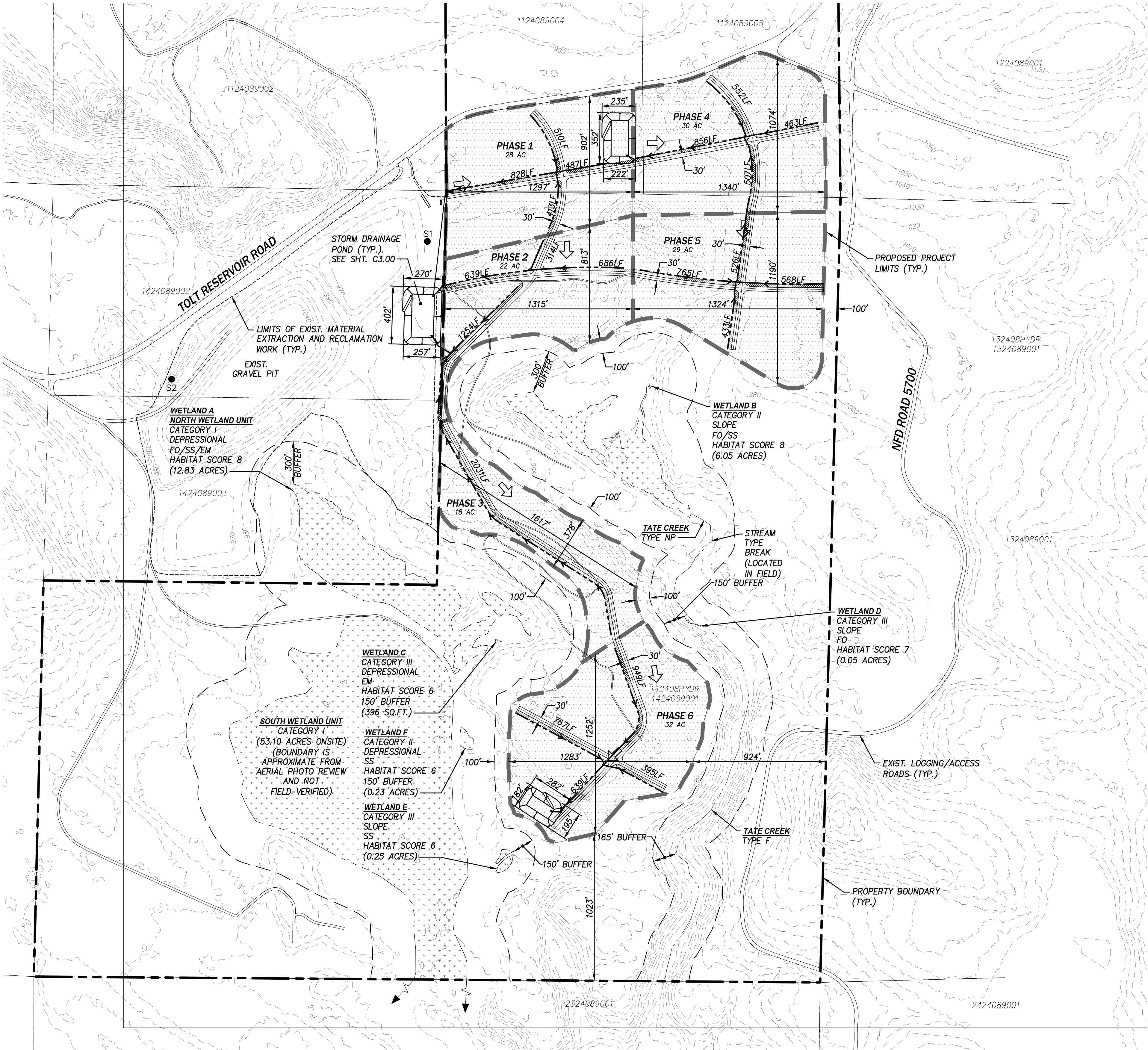
SHEET 8 OF 16

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date



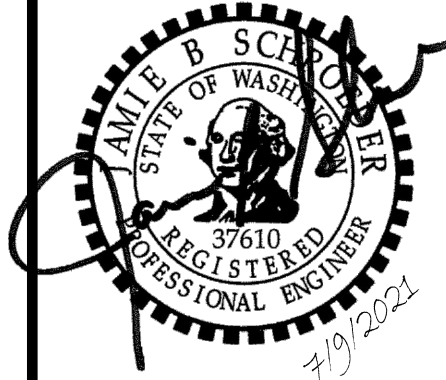
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PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



LEGEND

- EXIST. LOGGING/ACCESS ROAD
- PROPOSED PHASING LINE (30 AC MAX. PER PHASE)
- PROPOSED SD INFILTRATION FACILITY
- EXIST. GRADE CONTOUR
- WETLAND
- DIRECTION OF WORK
- DISTURBANCE AREA
- WETLAND AREA



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
OVERALL PROPOSED CONDITIONS AND HORIZONTAL CONTROL

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0051-20-011

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SHEET 9 OF 16

King County DLS – Permitting Approval

Review Engineer

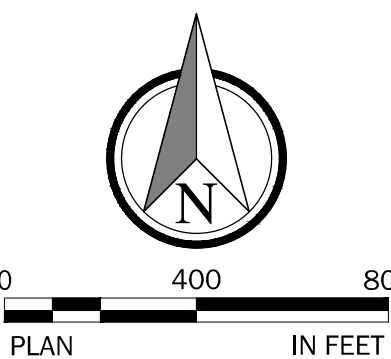
Date

Senior Engineer

Date

Development Engineer

Date



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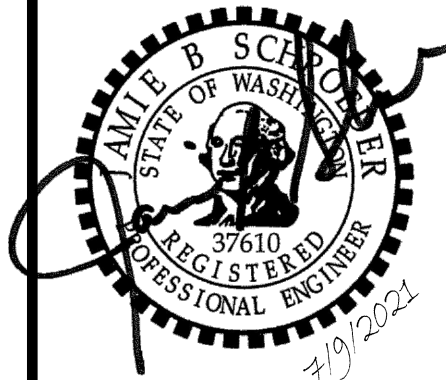


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PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.

LEGEND

- EXIST. LOGGING/ACCESS ROAD  
PROPOSED STORM DRAINAGE BASINS  
PHASE LINE  
GRADE BREAK  
EXISTING TOPOGRAPHIC CONTOUR  
PROPOSED GRADE CONTOUR  
WETLAND  
SD  
STORM DRAINAGE PIPE  
PROPOSED SD INFILTRATION FACILITY  
WETLAND AREA



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
OVERALL GRADING AND DRAINAGE PLAN

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0051-20-011

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SHEET 10 OF 16

King County DLS – Permitting Approval

Review Engineer

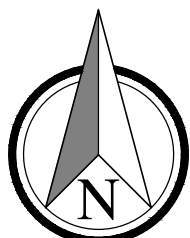
Date

Senior Engineer

Date

Development Engineer

Date



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PLAN IN FEET

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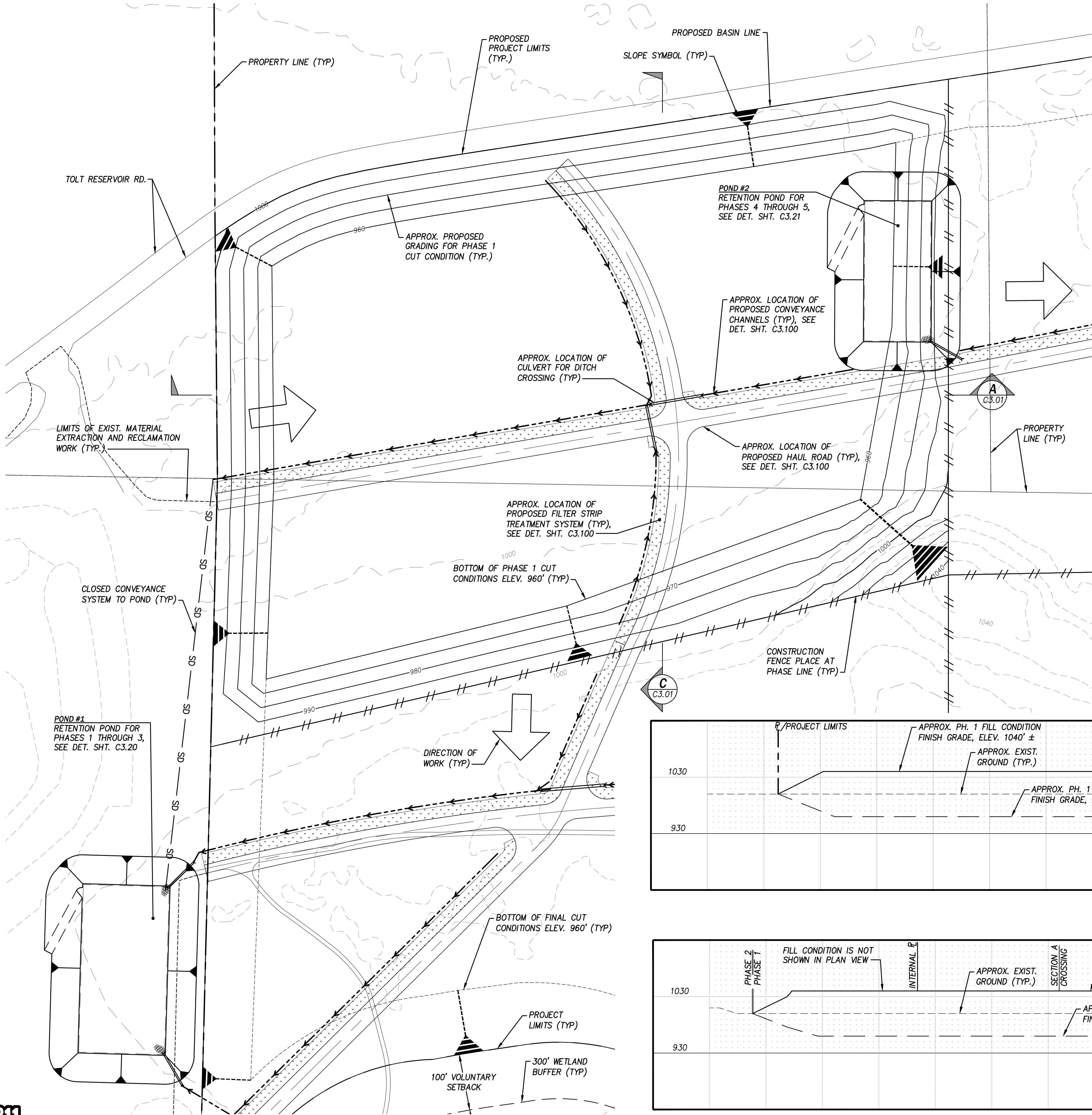


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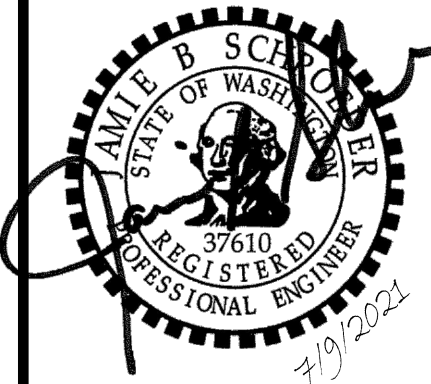
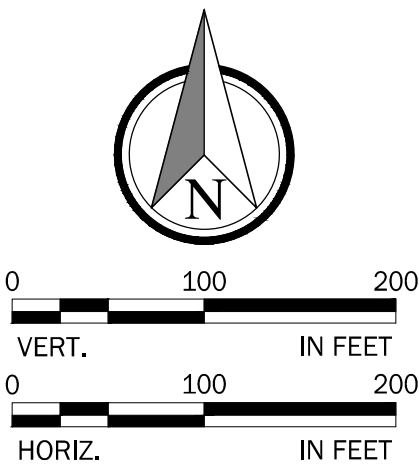


PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



LEGEND

- EXIST. LOGGING/ACCESS ROAD
- PROPOSED STORM DRAINAGE BASINS
- PHASE LINE
- GRADE BREAK
- EXISTING TOPOGRAPHIC CONTOUR
- PROPOSED GRADE CONTOUR
- WETLAND
- SD STORM DRAINAGE PIPE
- PROPOSED SD INFILTRATION FACILITY
- WETLAND AREA



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
TYPICAL PHASE GRADING AND DRAINAGE PLAN  
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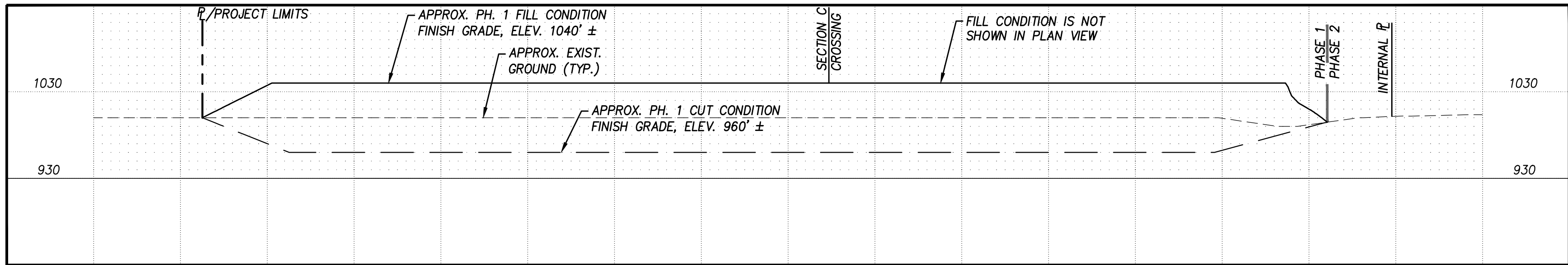
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0051-20-011

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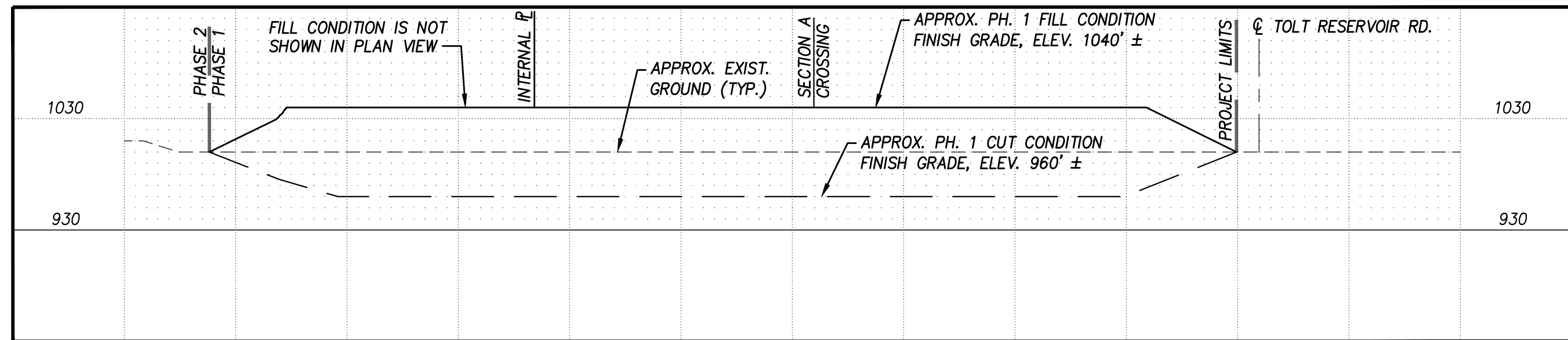
SHEET 11 OF 16

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

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SECTION A

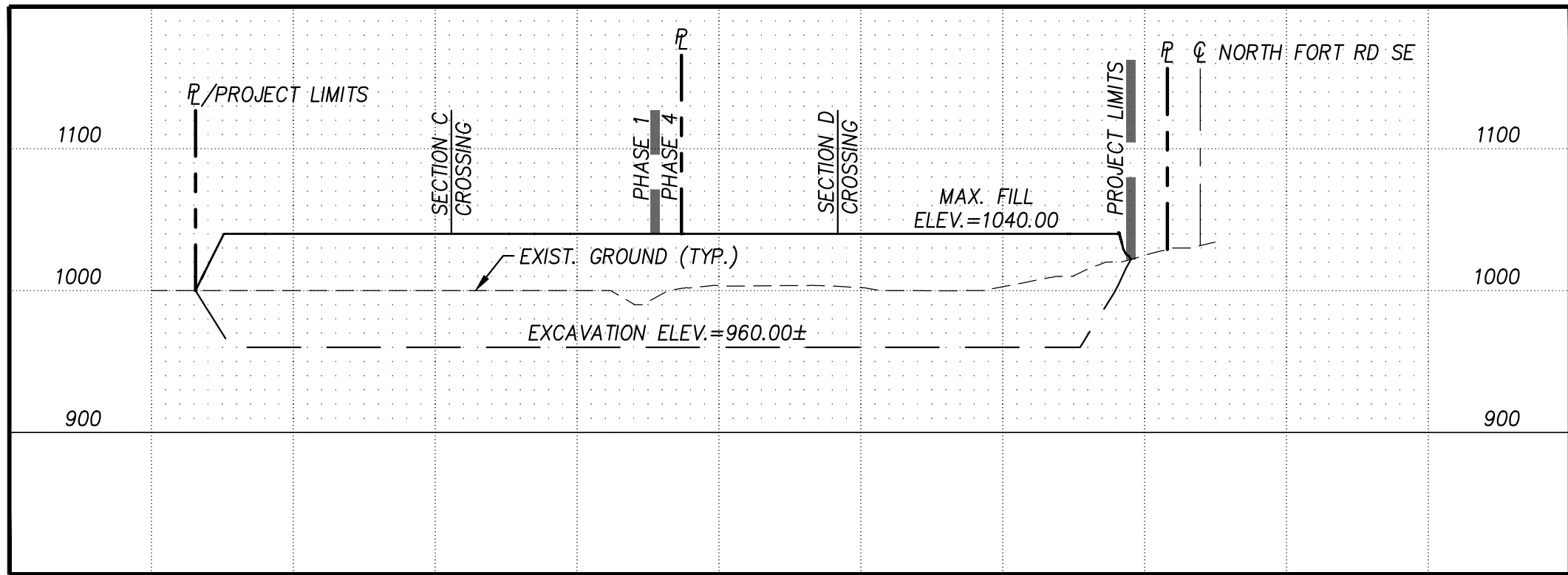


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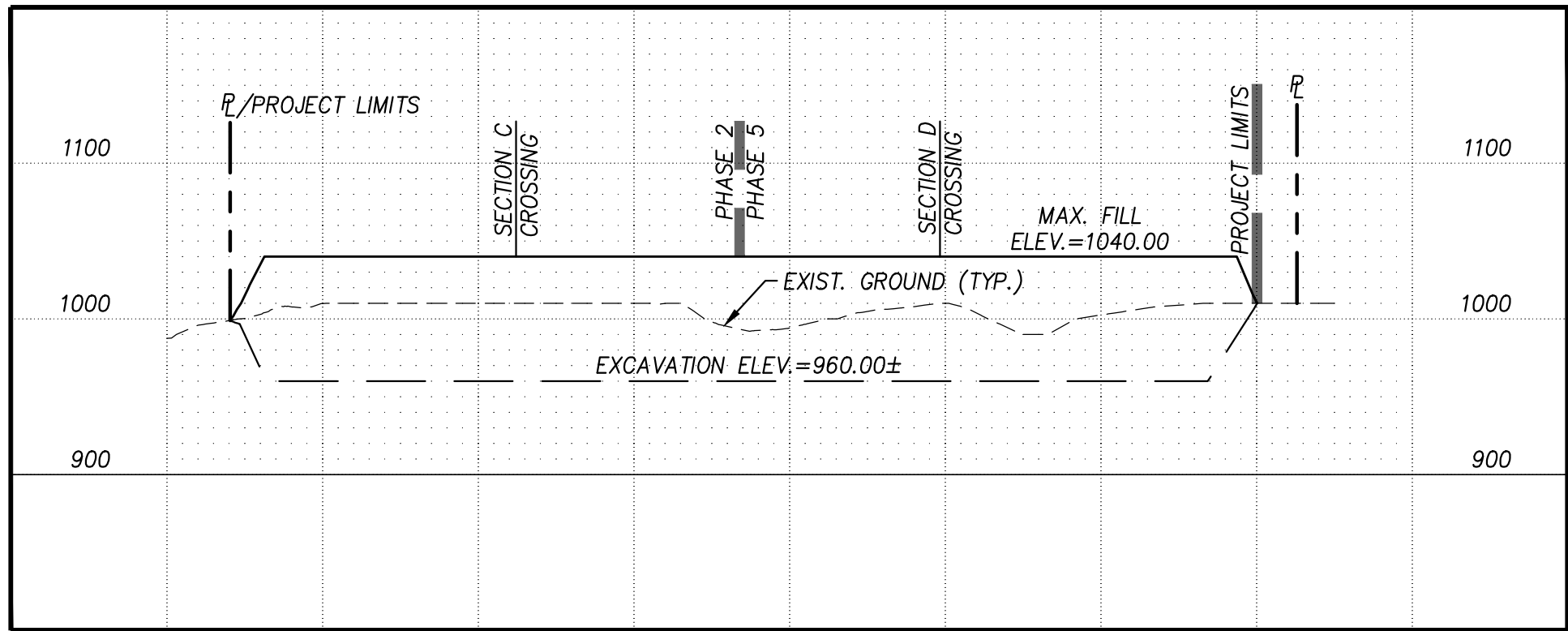


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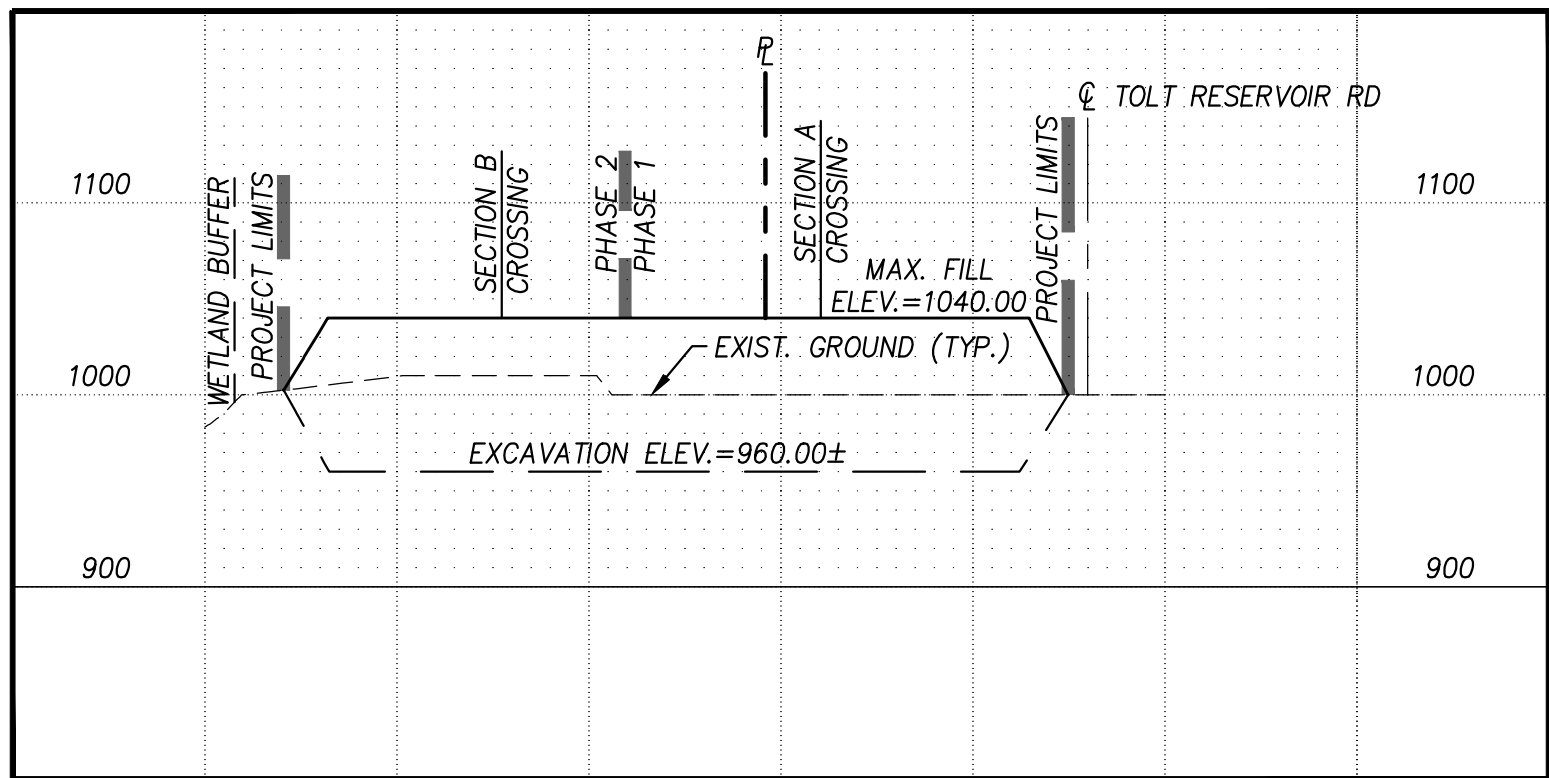
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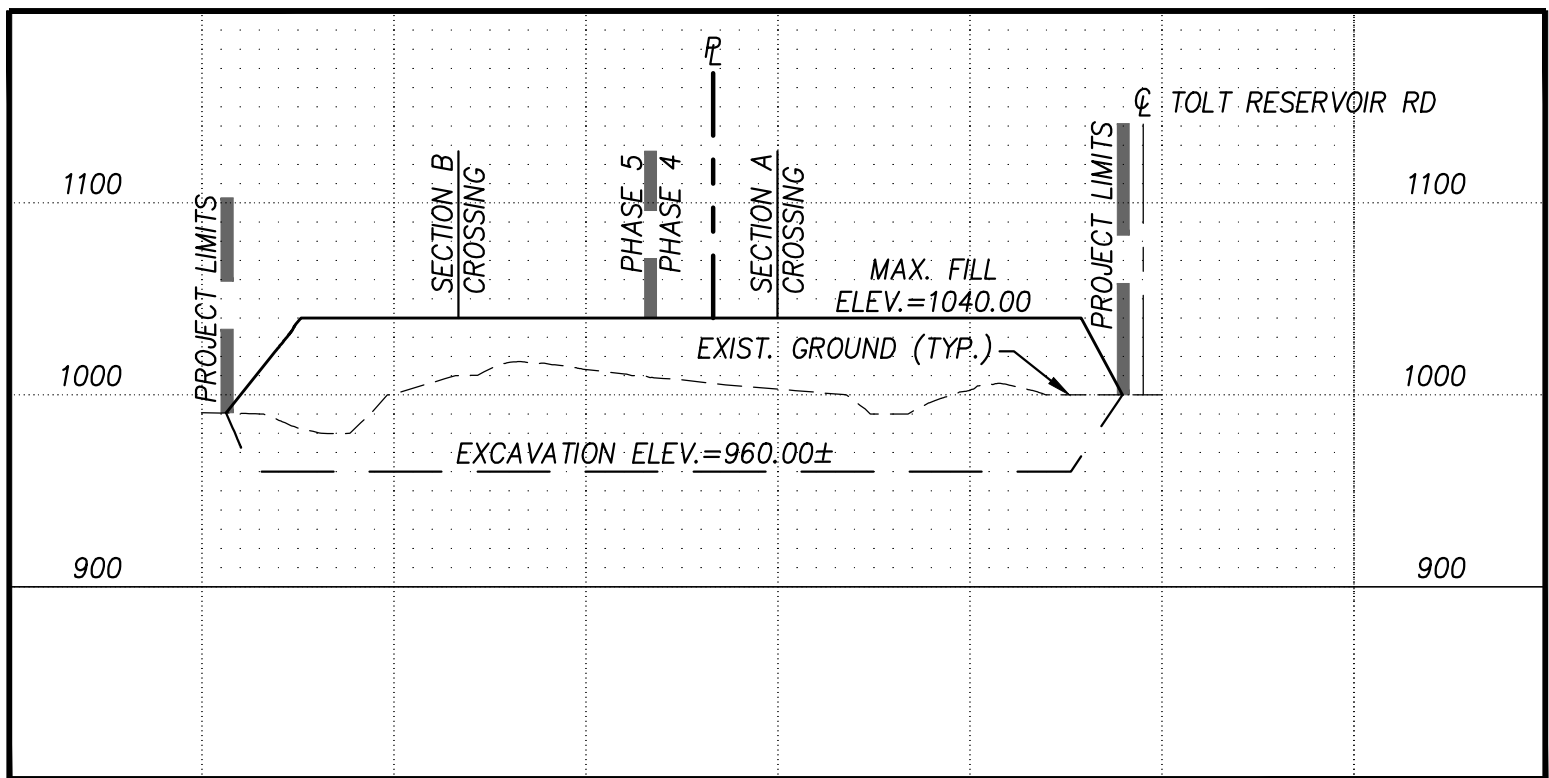
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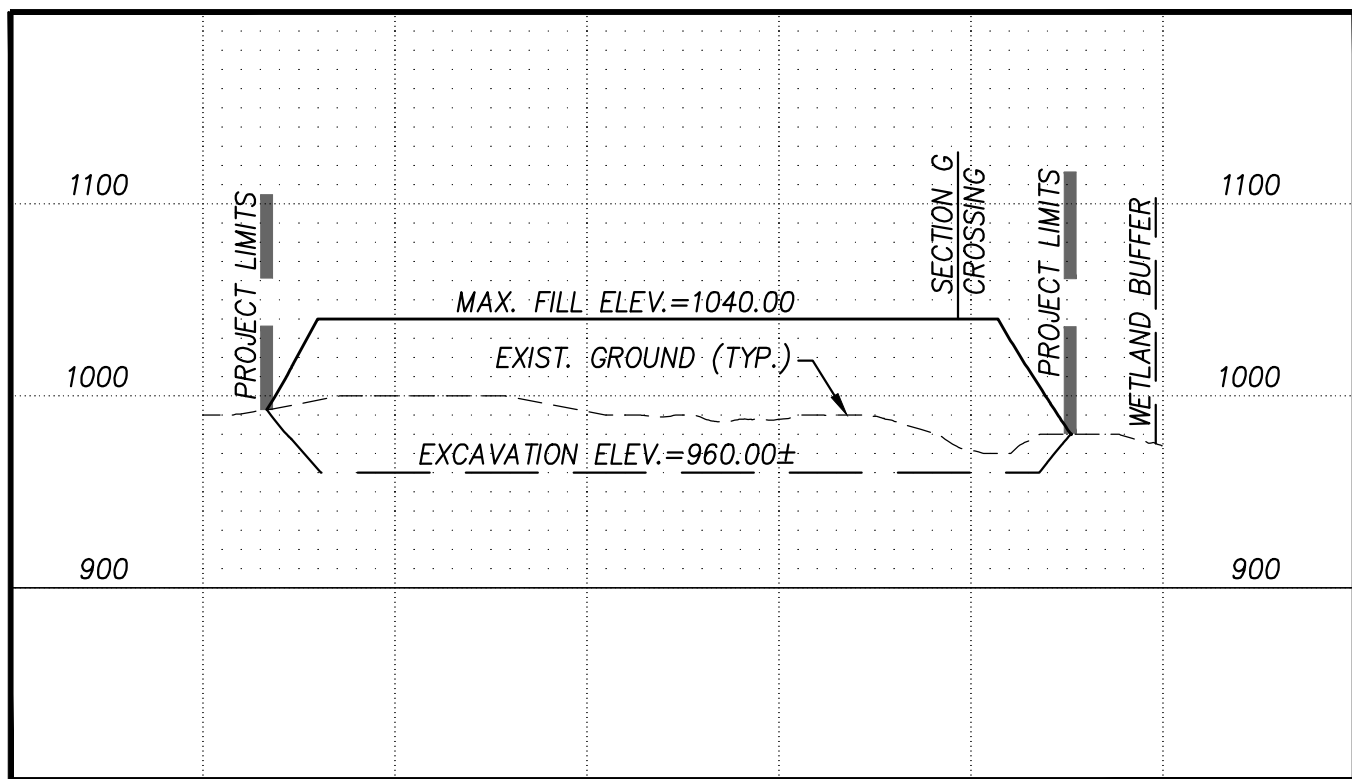
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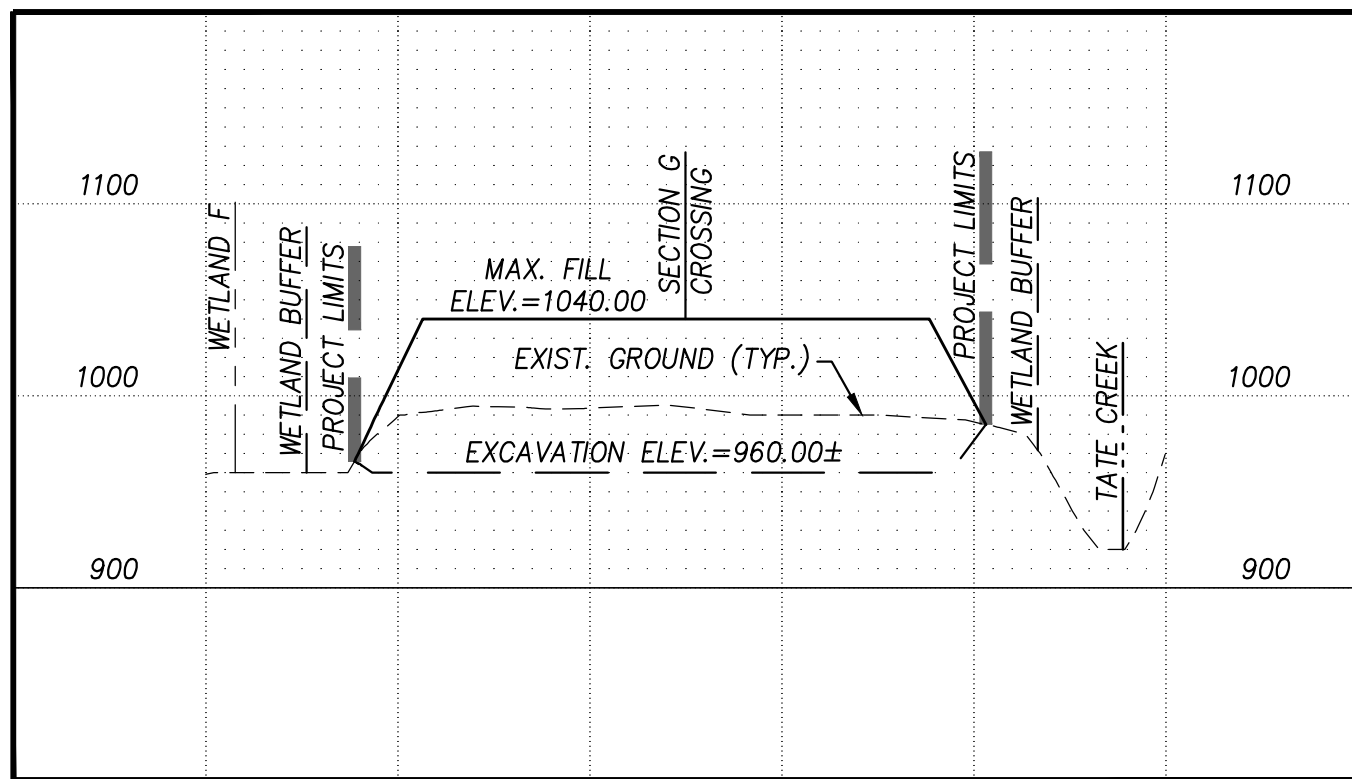
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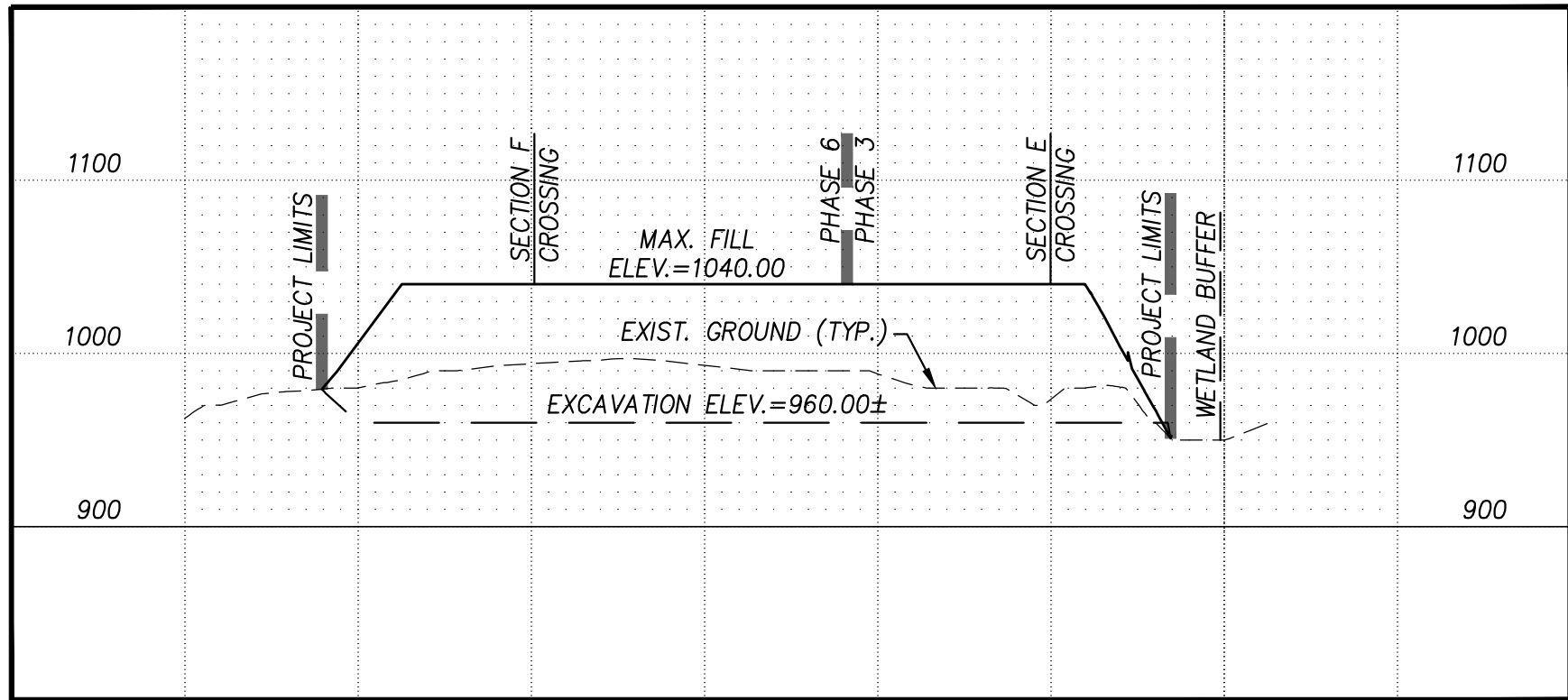
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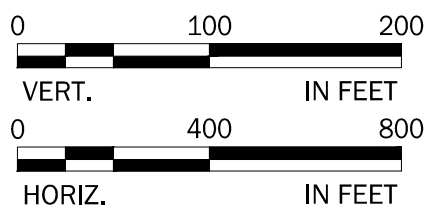
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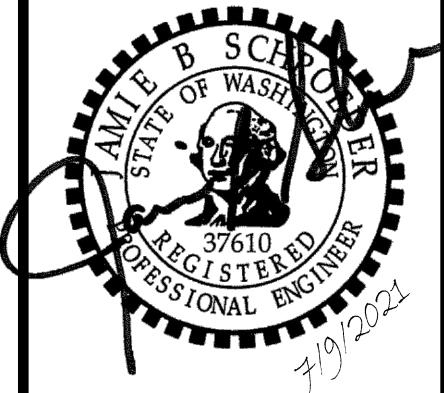


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King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

NO.	DATE	REVISION	BY	CHK.
1	7/9/21	CLEARING AND GRADING PERMIT SUBMITTAL	PCE	JBS



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
GRADING SECTIONS

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0051-20-011

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**C3.00**

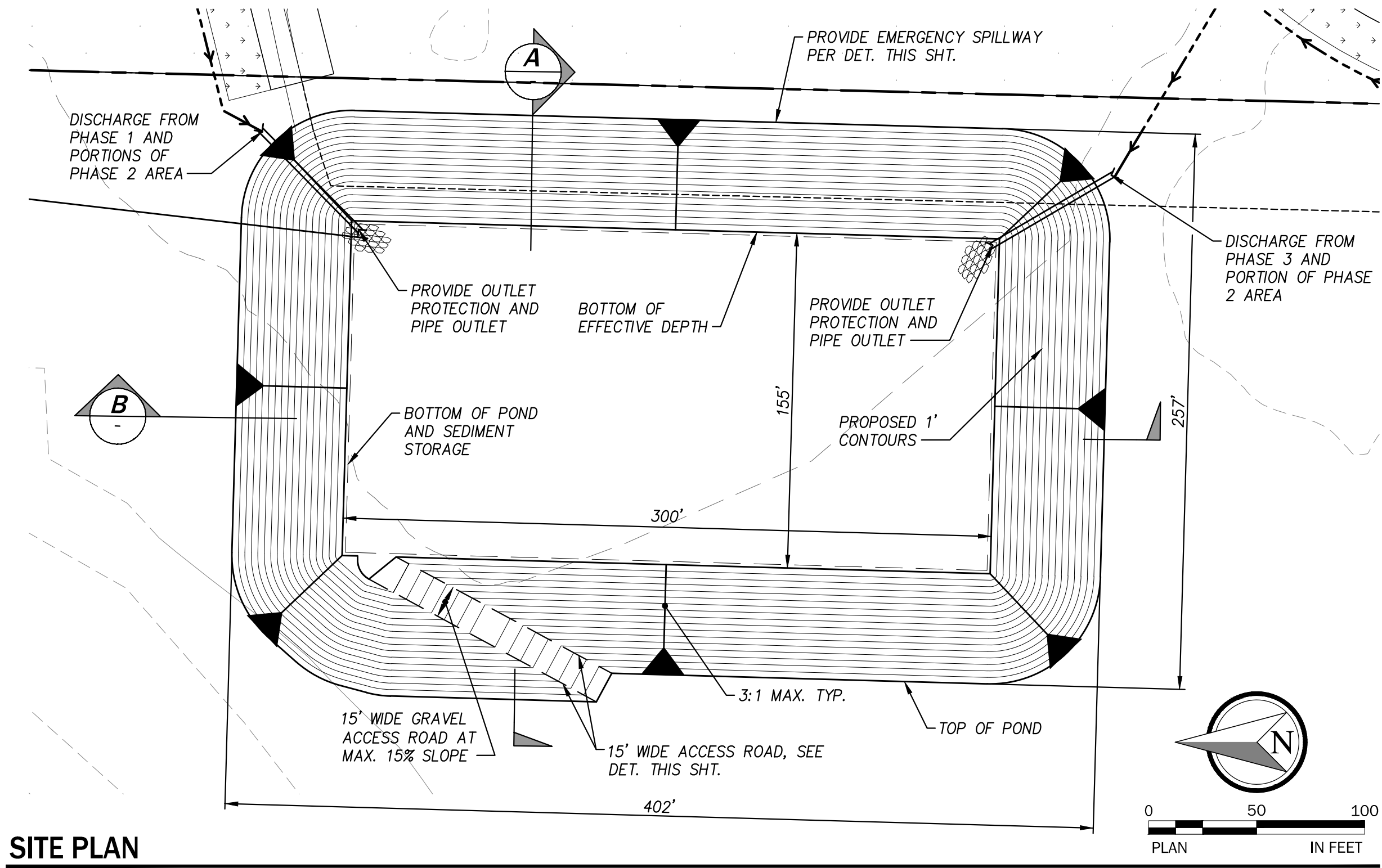
SHEET **12** OF **16**





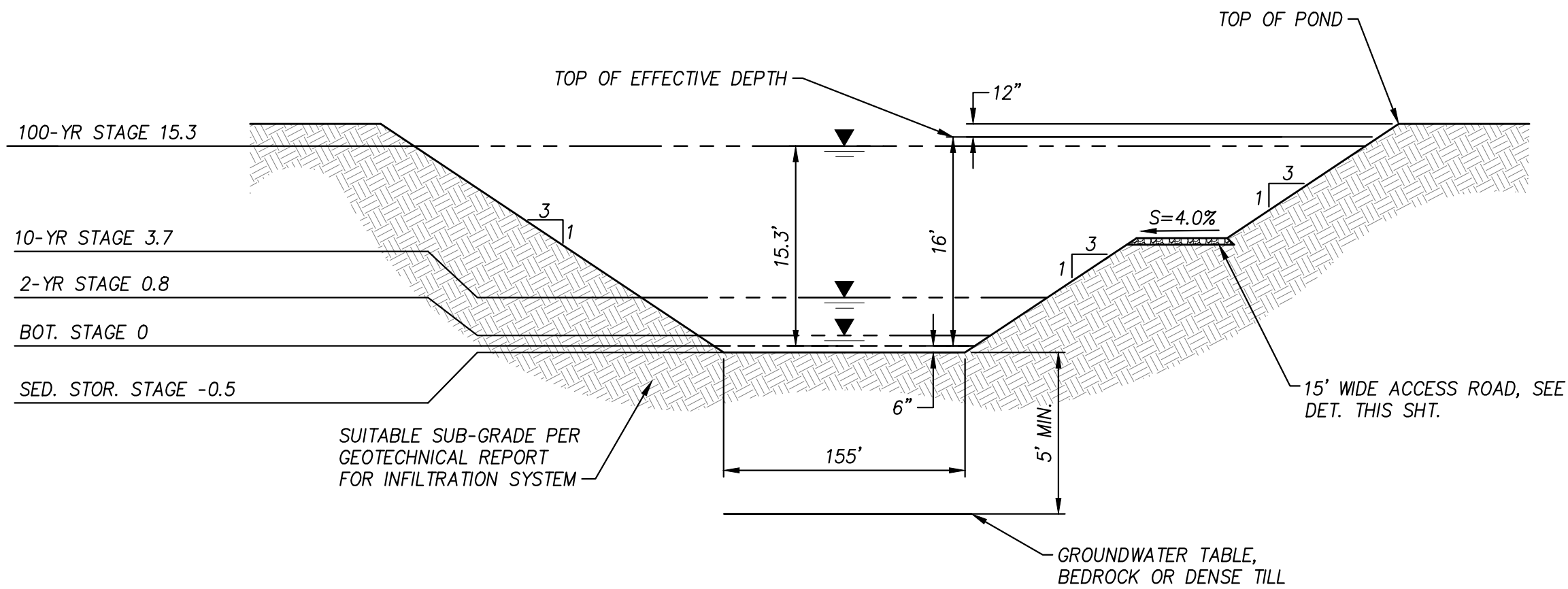
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PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



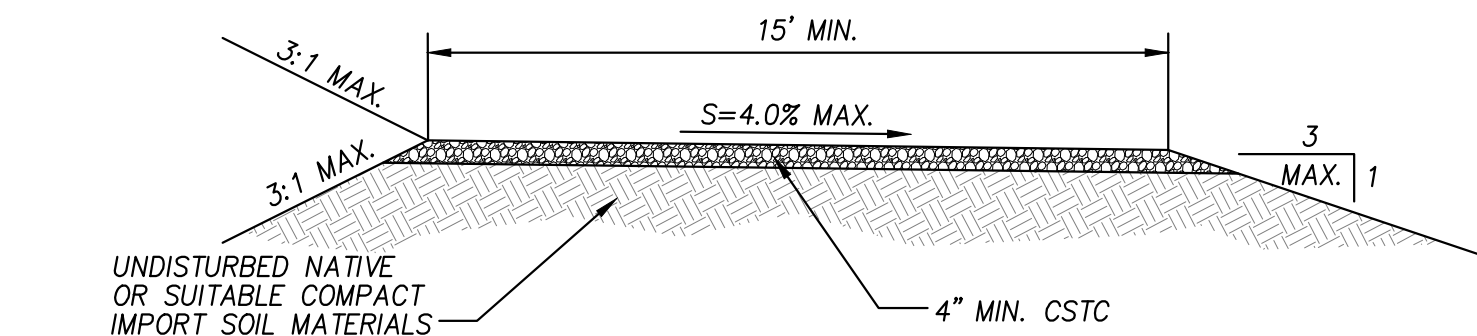
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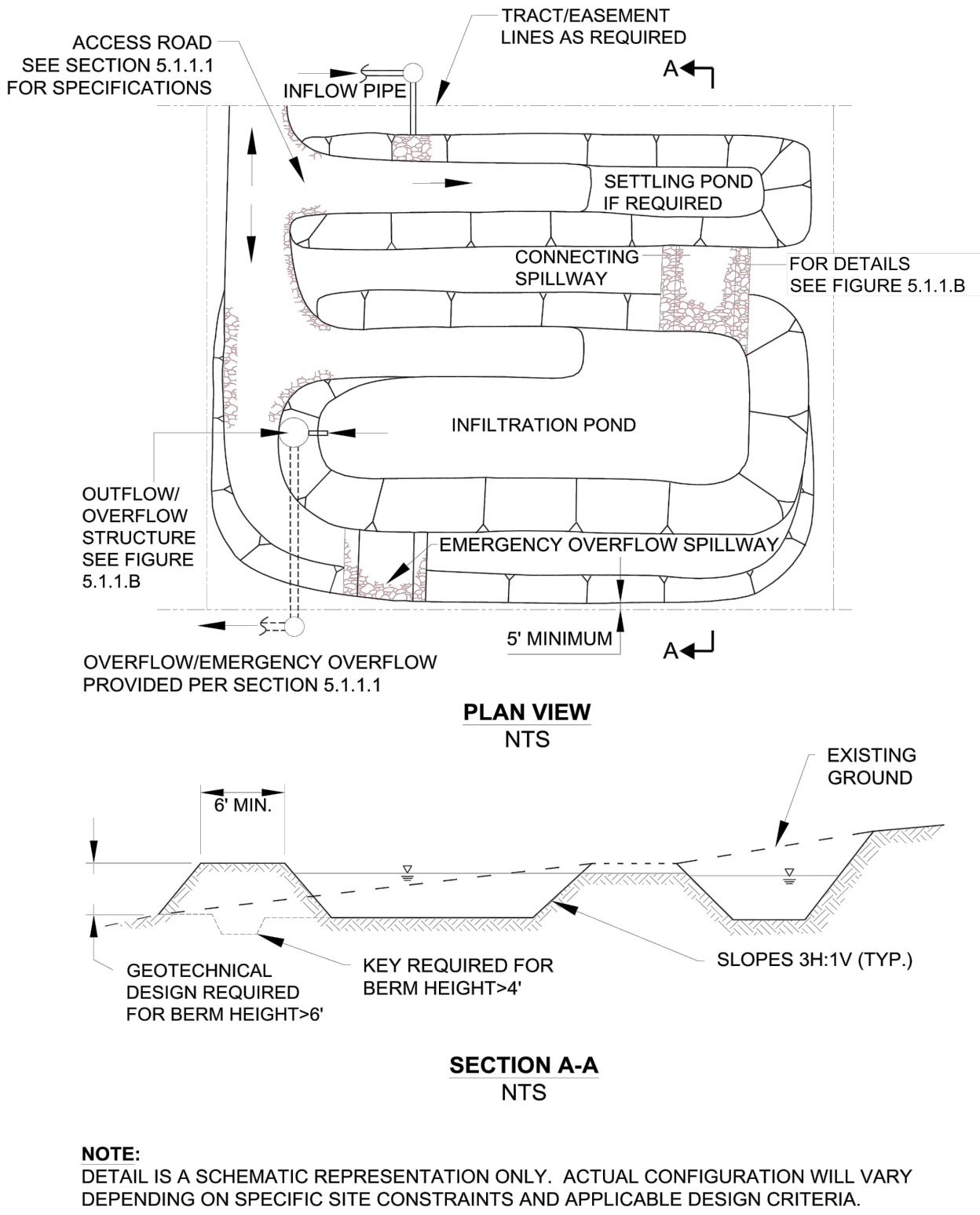
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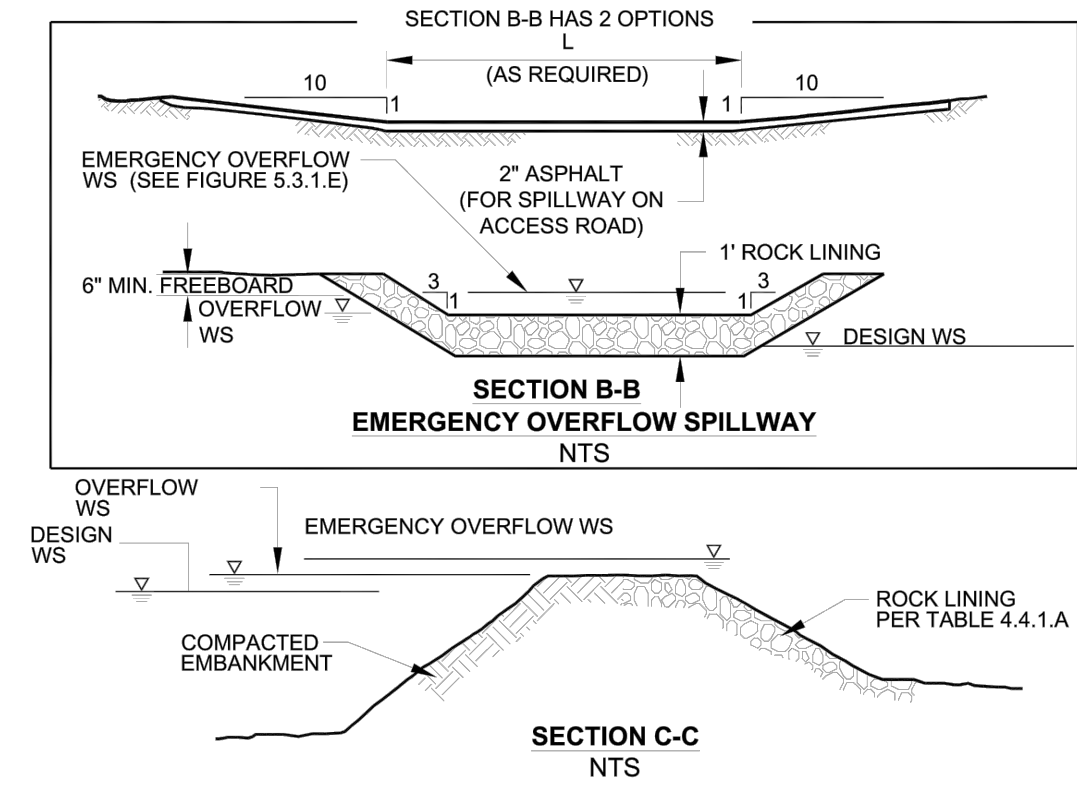
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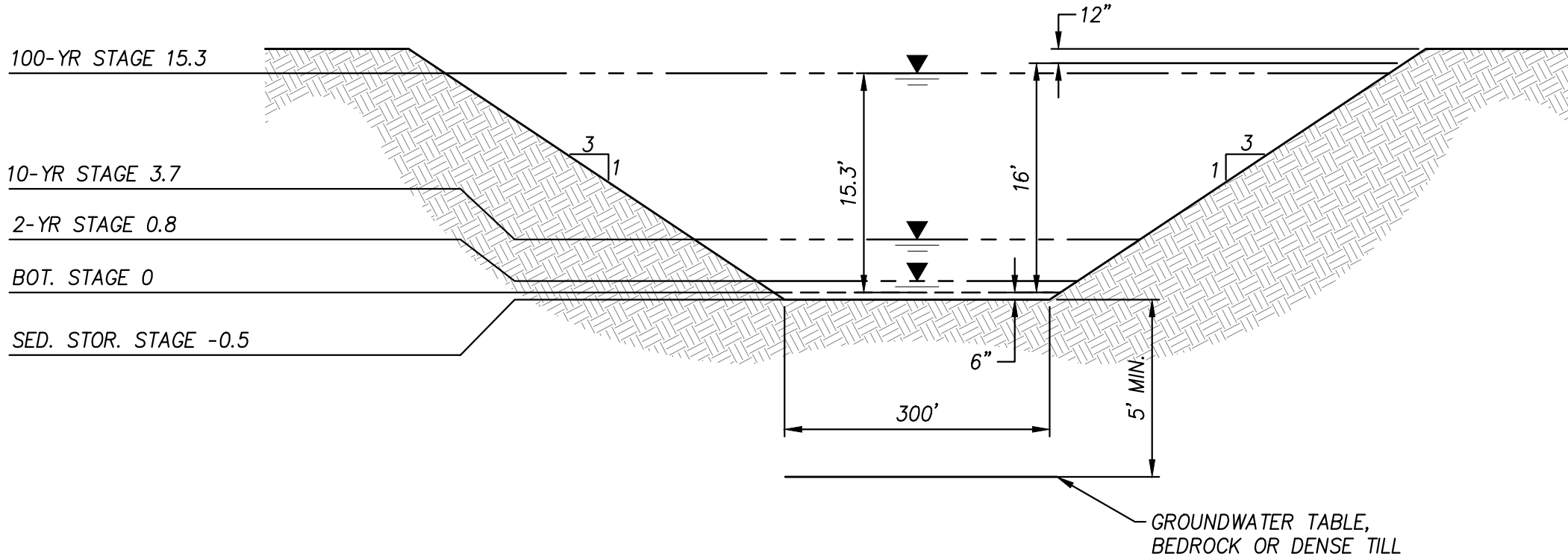
TYPICAL INFILTRATION POND

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TYPICAL OVERFLOW DETAIL

NOT TO SCALE



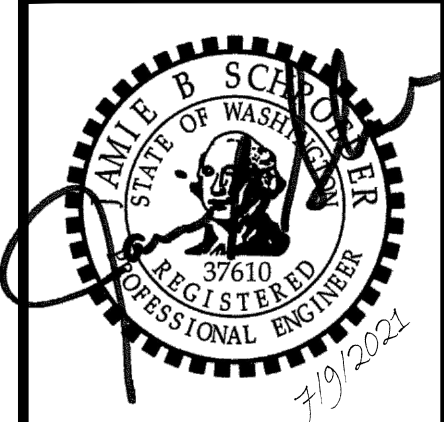
SECTION B - TYPICAL POND CROSS SECTION

NOT TO SCALE

DETENTION SUMMARY CHART		
STORM EVENT	DETENTION VOLUME (CF)	
	DESIGN	AS-BUILT
AREA	46,500	
2	35,850	
10	179,903	
100	881,333	

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

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1	7/9/21	CLEARING AND GRADING PERMIT SUBMITTAL	PCE	JBS



5 MILE PIT EXPANSION

CLEARING AND GRADING PERMIT

STORM POND #1 DETAILS

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SHEET 13 OF 16

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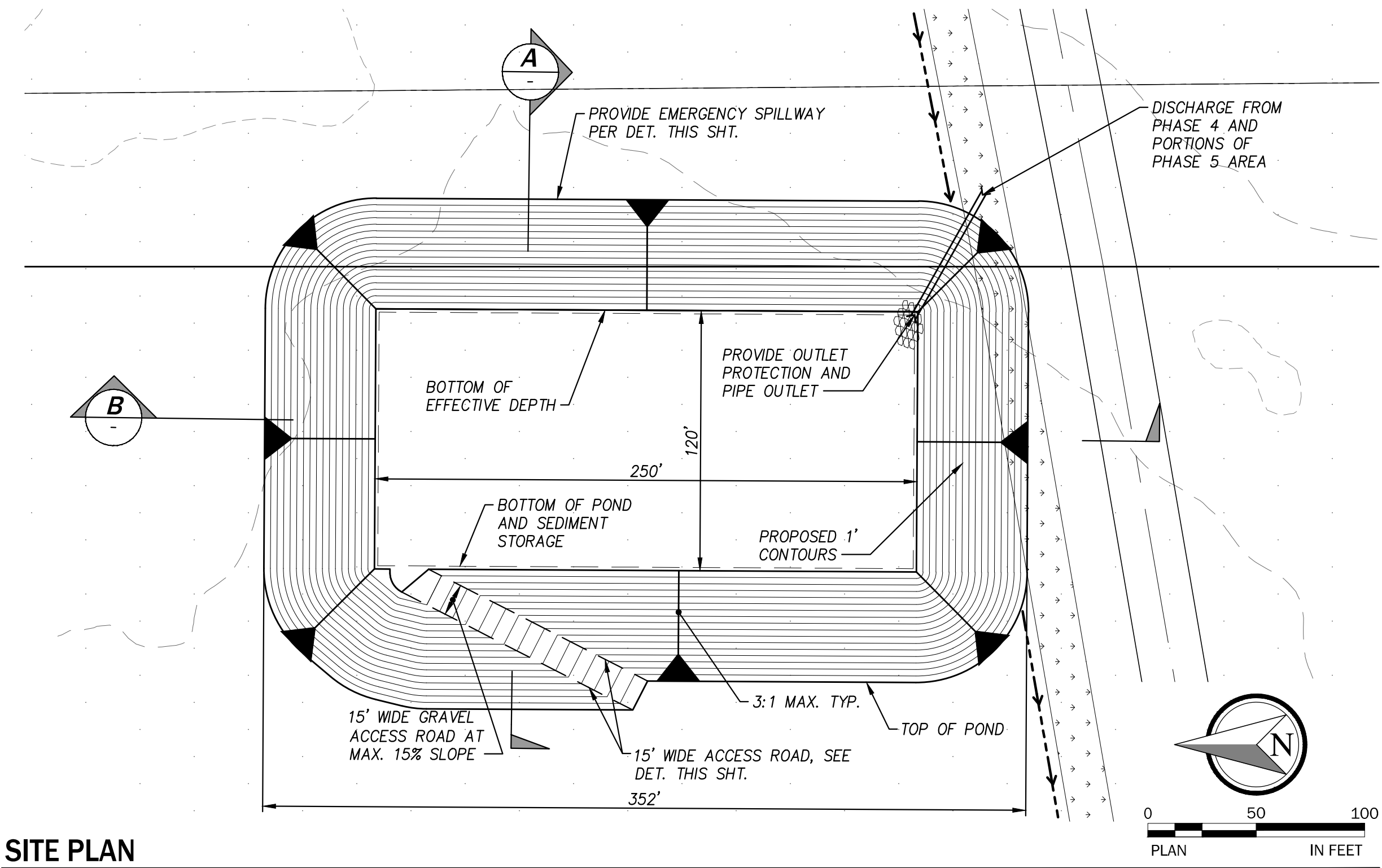
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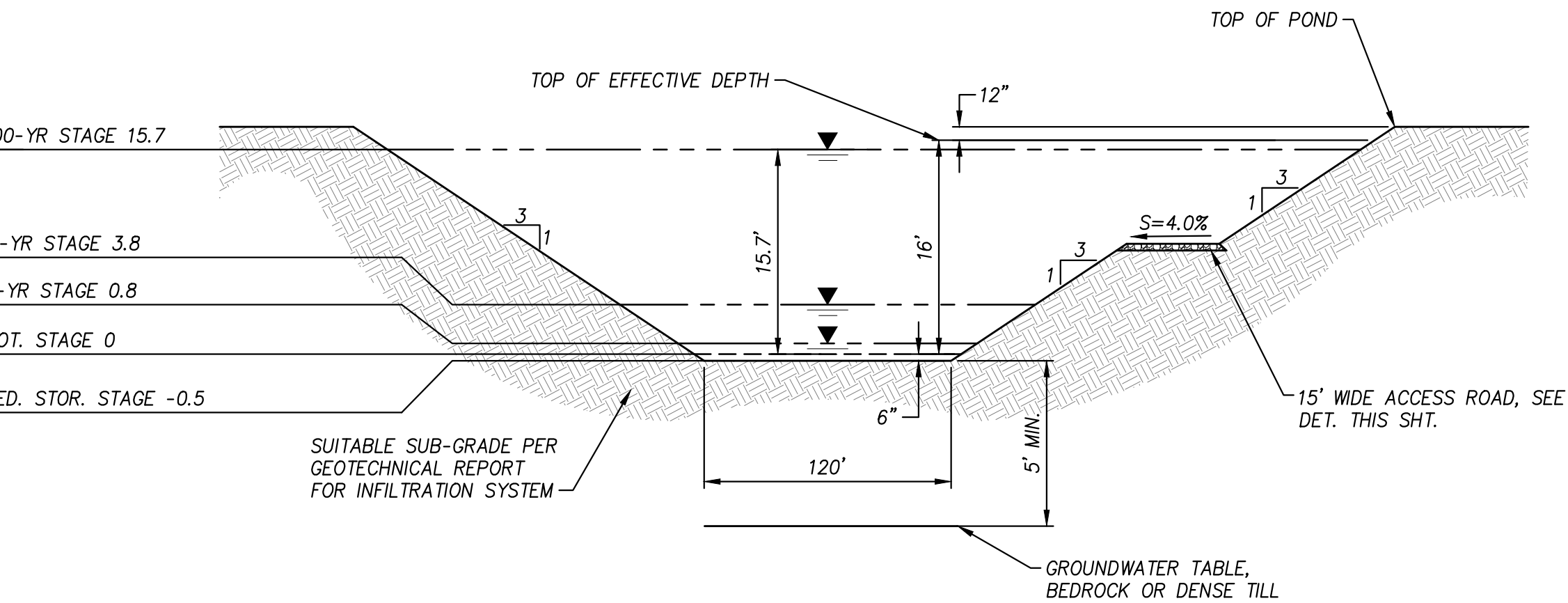
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CGRD512011

PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



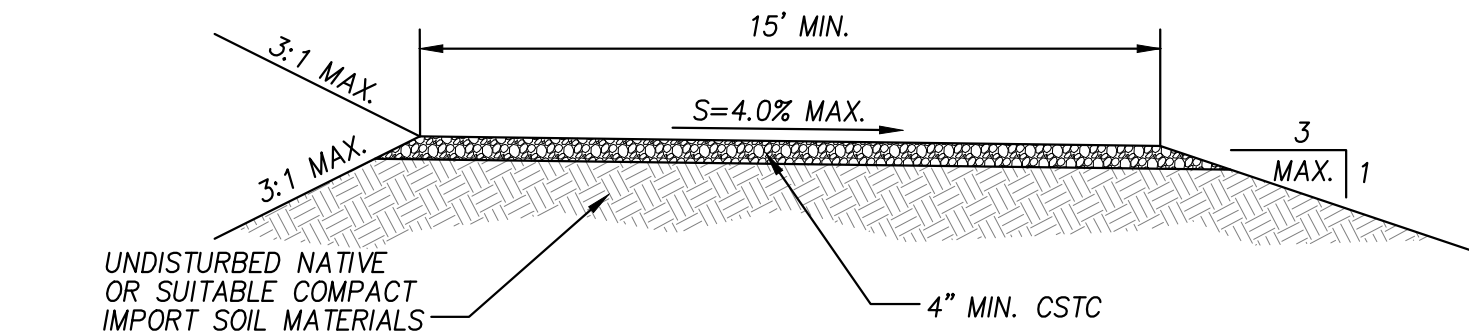
SITE PLAN

SCALE: 1"=50'



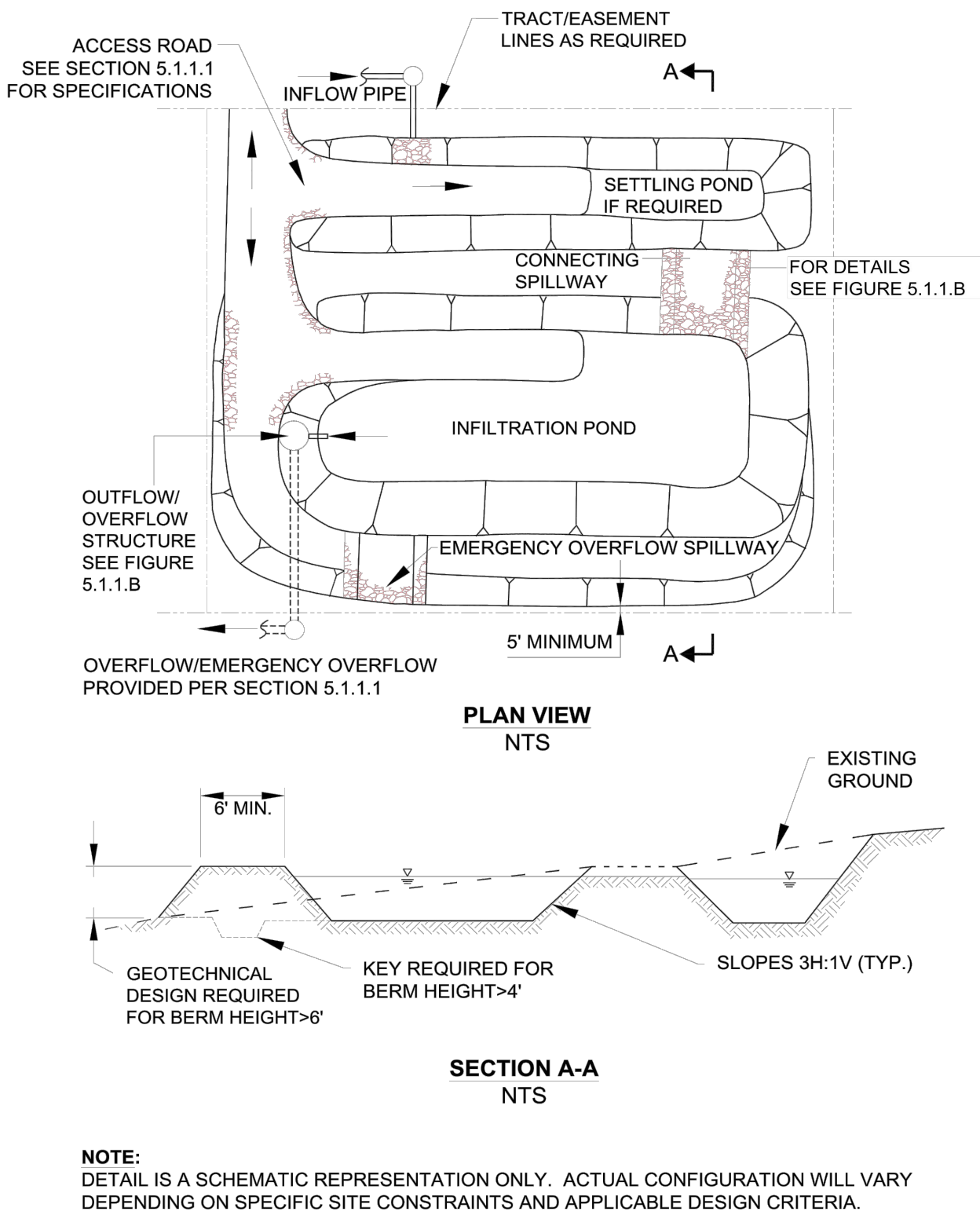
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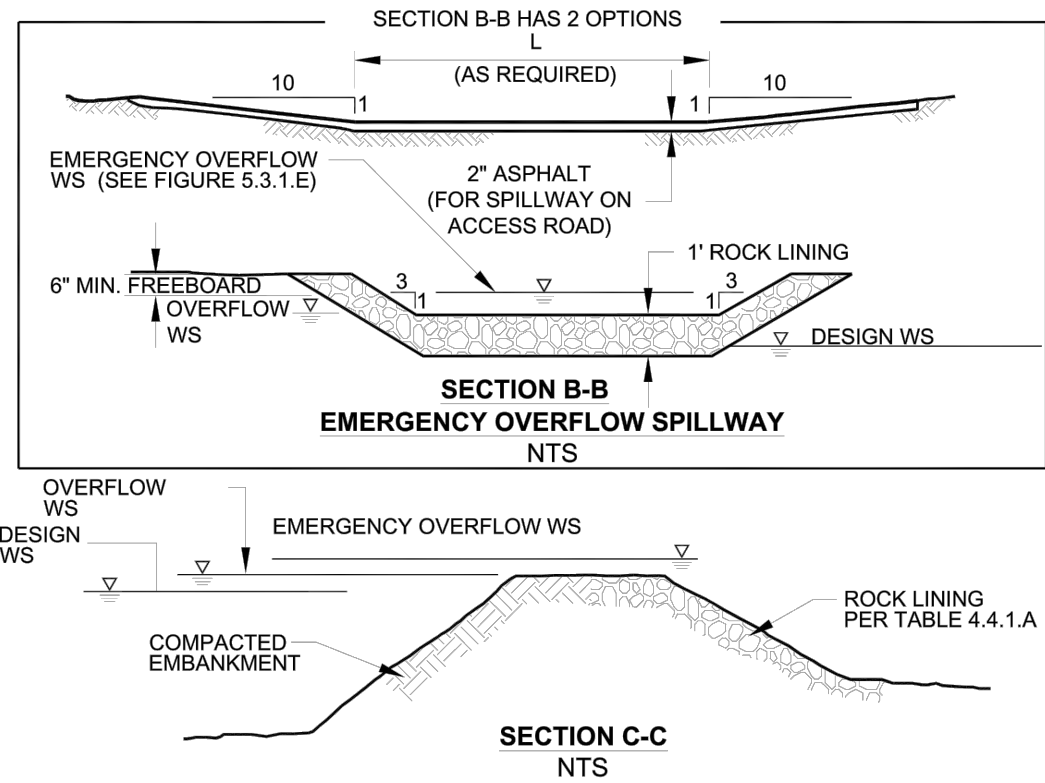
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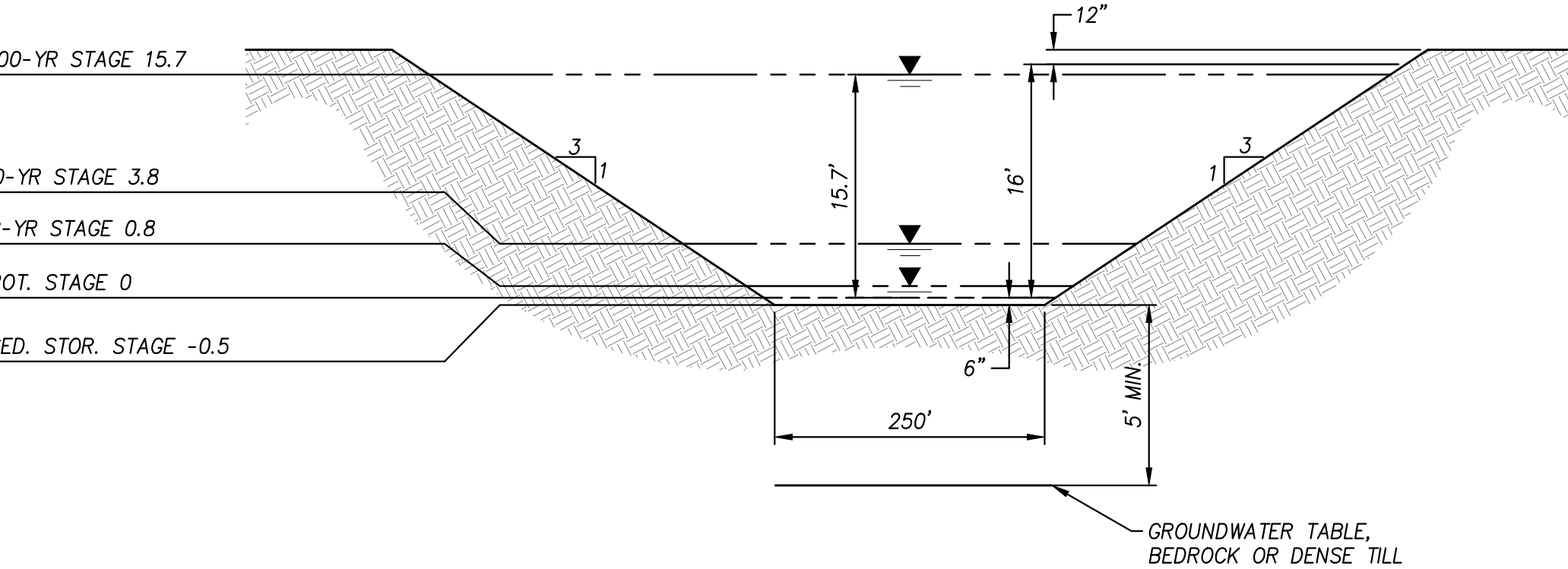
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TYPICAL OVERFLOW DETAIL

NOT TO SCALE



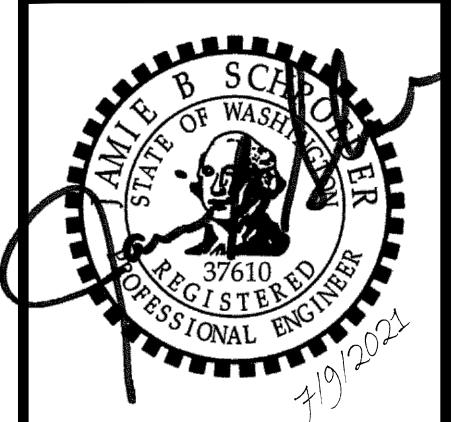
SECTION B - TYPICAL POND CROSS SECTION

NOT TO SCALE

DETENTION SUMMARY CHART		
STORM EVENT	DETENTION VOLUME (CF)	
	DESIGN	AS-BUILT
AREA	30,000	
2	24,456	
10	122,703	
100	620,028	

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

NO.	DATE	REVISION	BY	CHK.
1	7/9/21	CLEARING AND GRADING PERMIT SUBMITTAL	PCE	JBS



5 MILE PIT EXPANSION

CLEARING AND GRADING PERMIT

STORM POND #2 DETAILS

WASHINGTON

KING COUNTY

CLIENT

HOS BROTHERS CONSTRUCTION  
7733 W BOSTIAN ROAD  
WOODINVILLE, WA 98072  
PHONE:(425)481-5569

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Kirkland, WA 98034 • (425) 385-2290  
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PROJECT NO.  
0051-20-011

DRAWING  
C3.21

SHEET 14 OF 16

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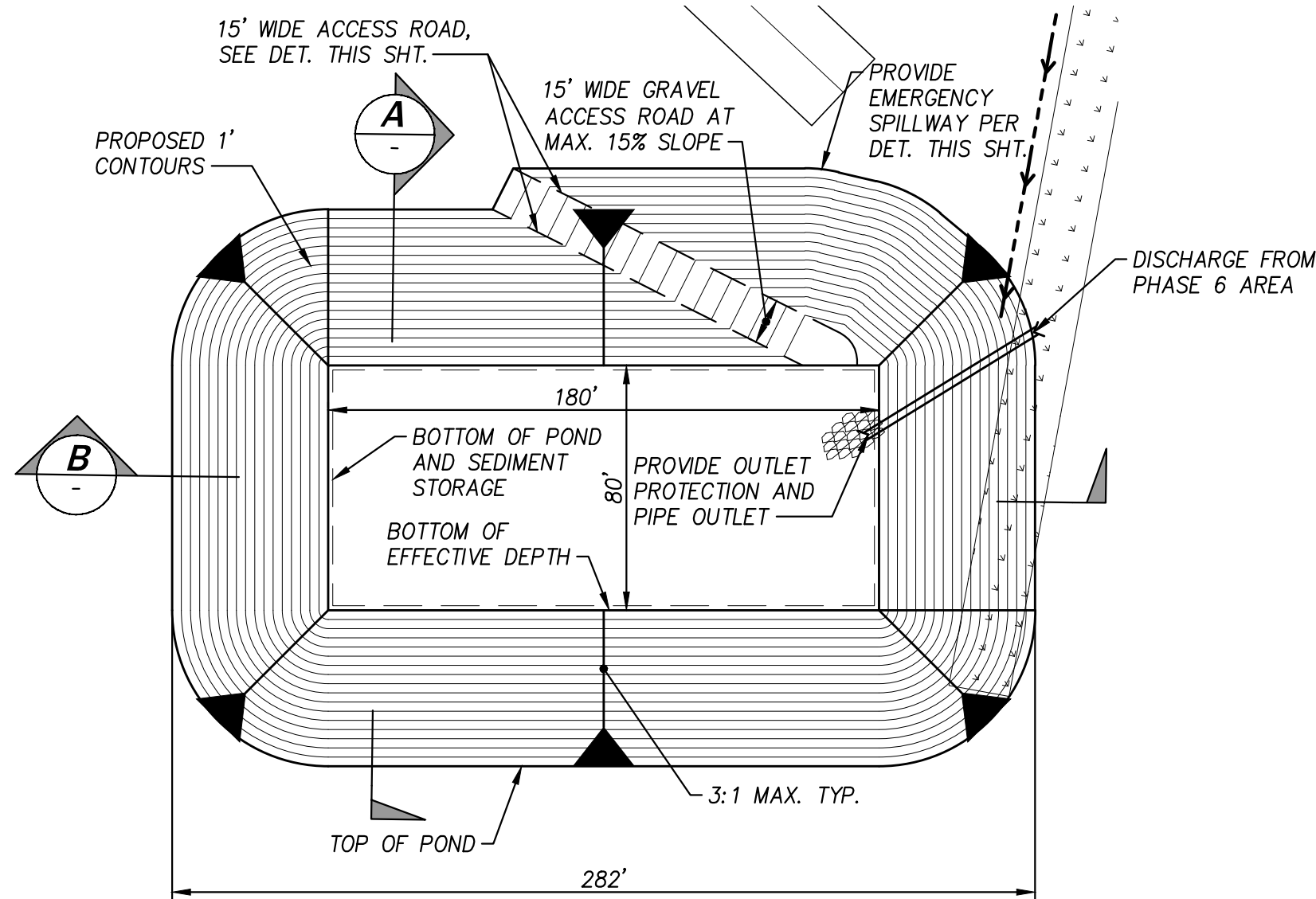
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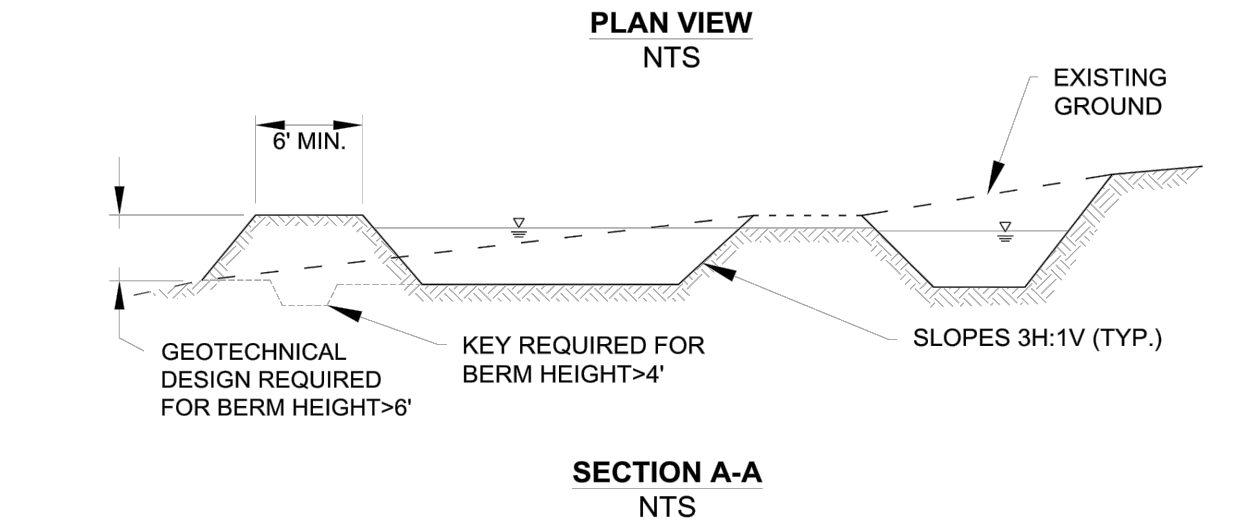
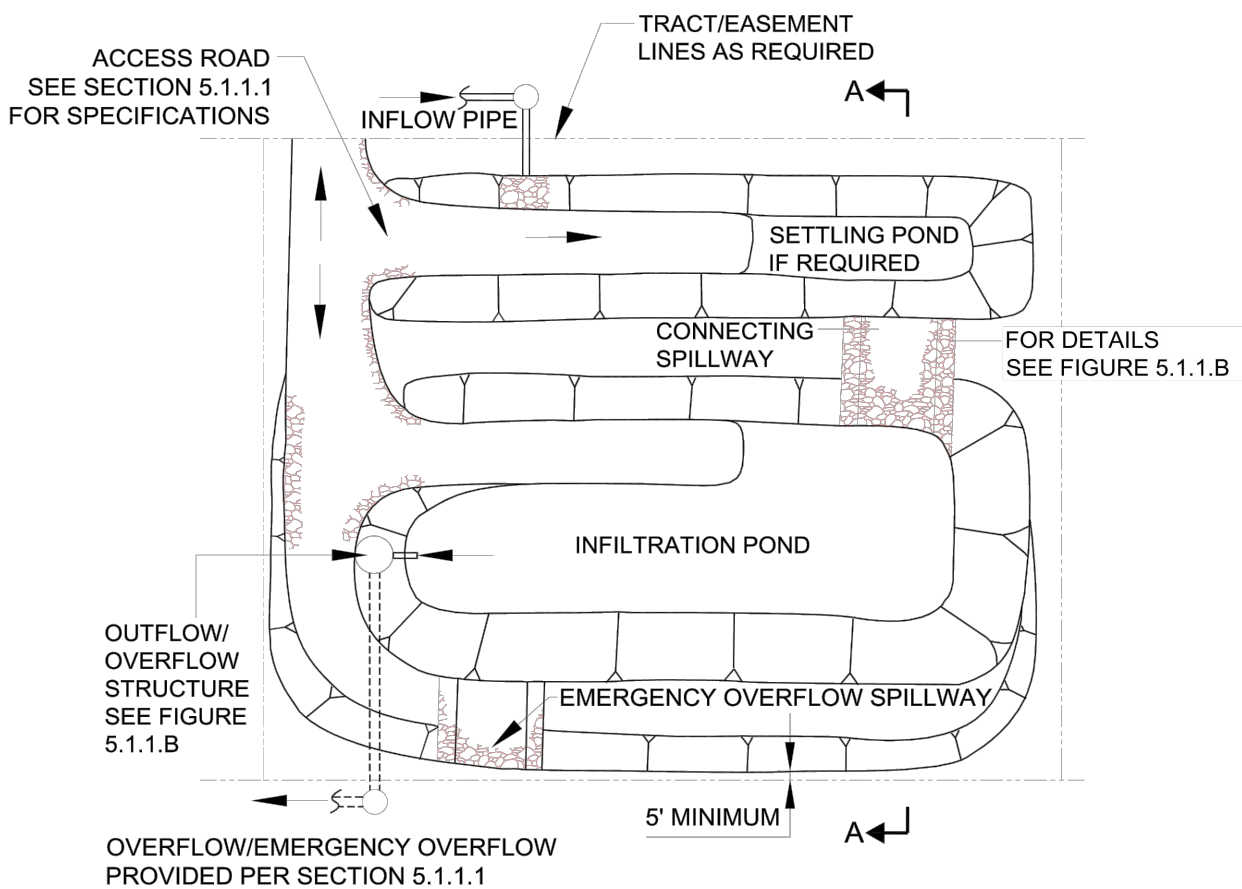
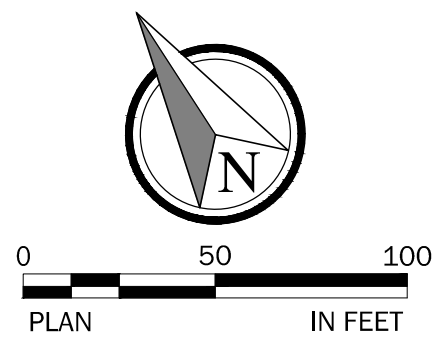
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PTNS. OF SEC 11 AND 14, TWP 24 N, R8E W.M.



SITE PLAN

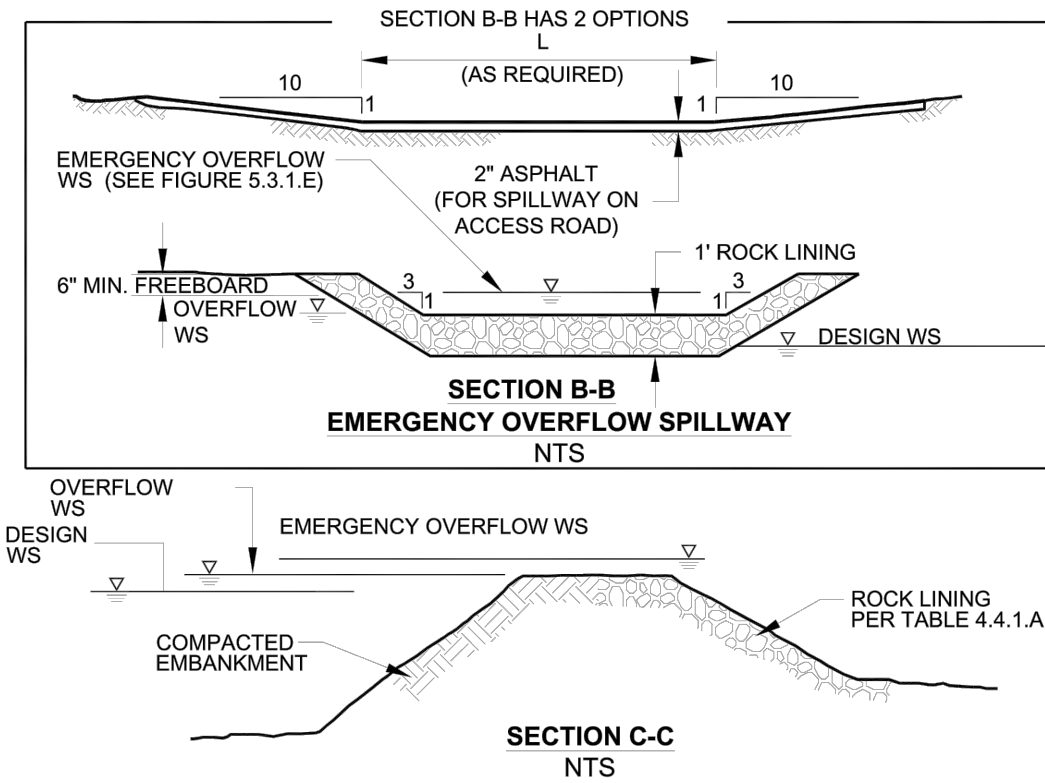
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NOTE:  
DETAIL IS A SCHEMATIC REPRESENTATION ONLY. ACTUAL CONFIGURATION WILL VARY  
DEPENDING ON SPECIFIC SITE CONSTRAINTS AND APPLICABLE DESIGN CRITERIA.

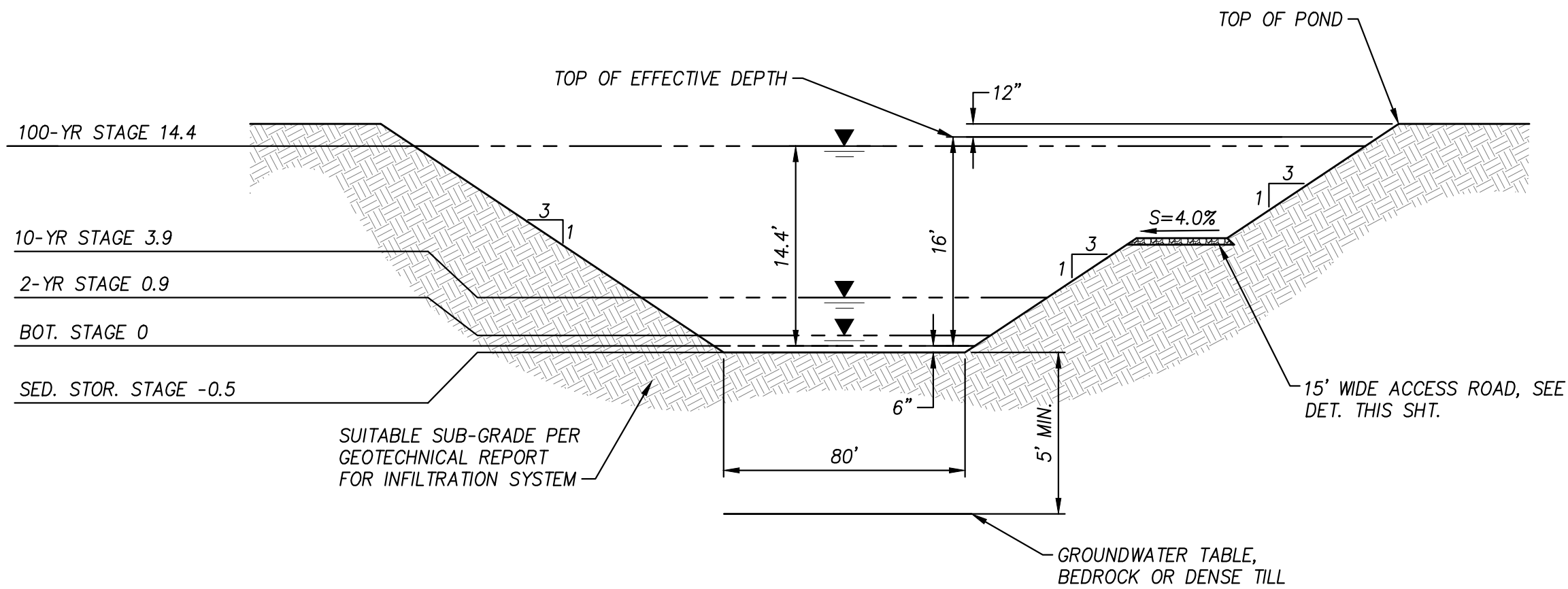
TYPICAL INFILTRATION POND

NOT TO SCALE



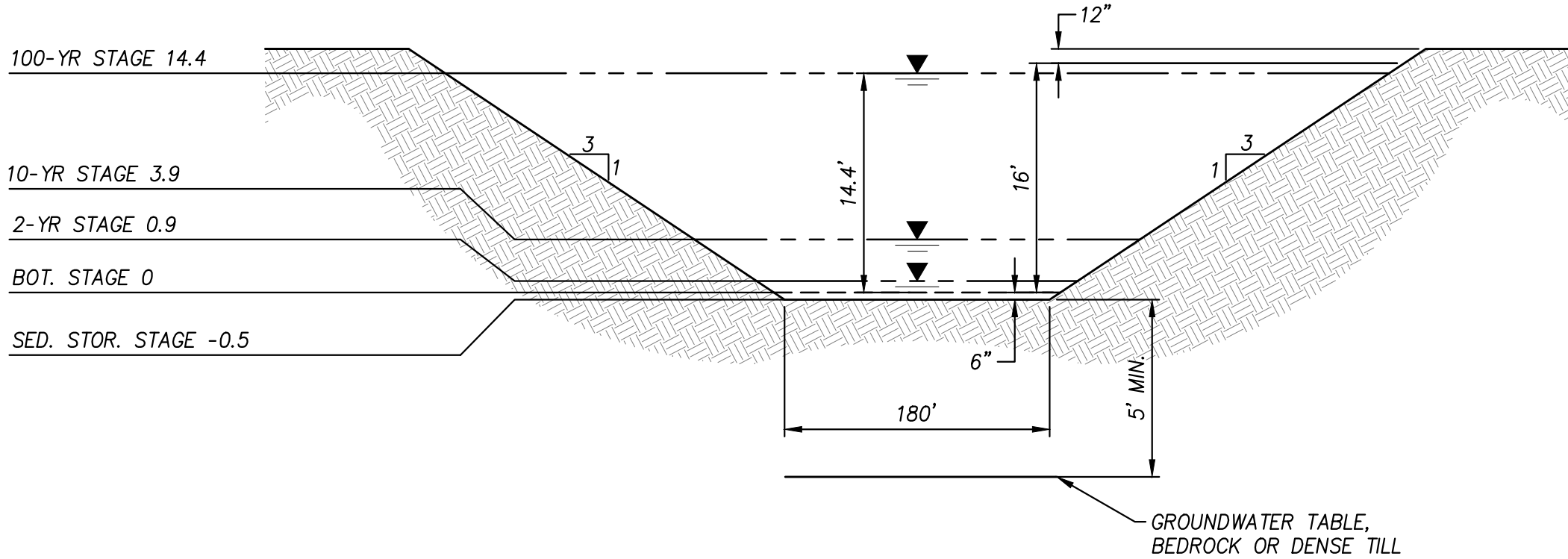
TYPICAL OVERFLOW DETAIL

NOT TO SCALE



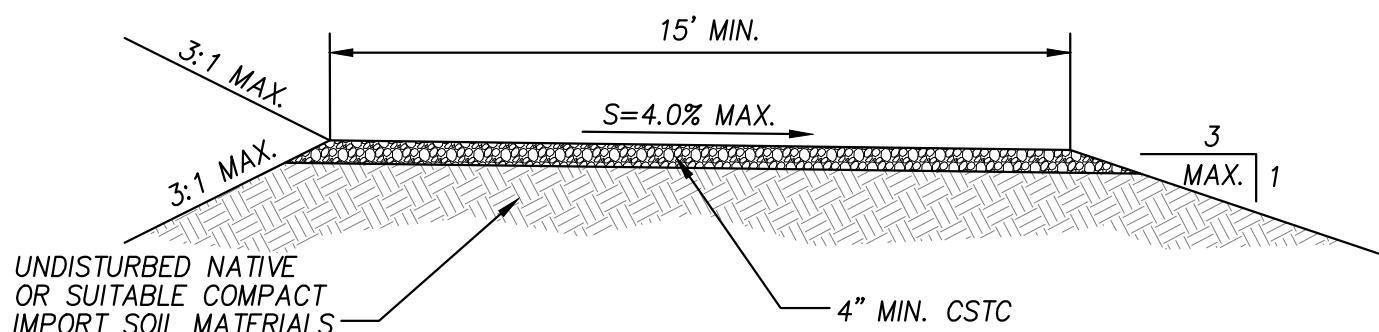
SECTION A - TYPICAL POND CROSS SECTION

NOT TO SCALE



SECTION B - TYPICAL POND CROSS SECTION

NOT TO SCALE



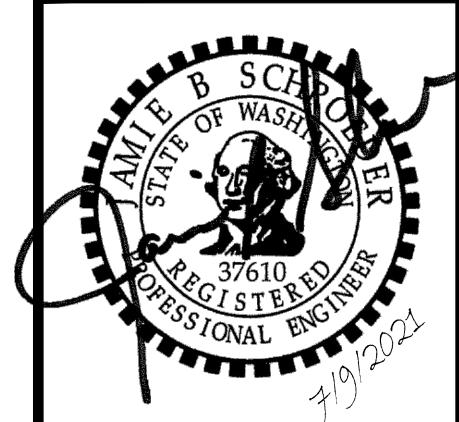
TYPICAL GRAVEL ACCESS ROAD

NOT TO SCALE



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NO.	DATE	REVISION	BY	CHK.
1	7/9/21	CLEARING AND GRADING PERMIT SUBMITTAL	PCE	JBS



5 MILE PIT EXPANSION  
CLEARING AND GRADING PERMIT  
STORM POND #3 DETAILS  
KING COUNTY  
WASHINGTON

CLIENT  
HOS BROTHERS CONSTRUCTION  
7733 W BOSTIAN ROAD  
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PROJECT NO.  
0051-20-011

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C3.22

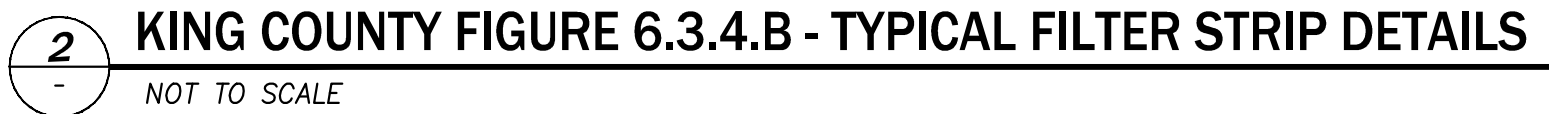
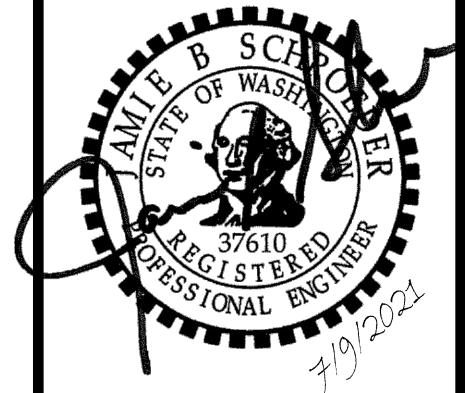
SHEET 15 OF 16

STORM EVENT	DETENTION VOLUME (CF)	
	DESIGN	AS-BUILT
AREA	14,400	
2	12,755	
10	61,840	
100	298,528	

King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

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# 5 MILE PIT EXPANSION

## CLEARING AND GRADING PERMIT

### DRAINAGE AND HAUL ROAD DETAILS

KING COUNTY WASHINGTON

CLIENT

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WOODINVILLE, WA 98072  
PHONE:(425)481-5569

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King County DLS – Permitting Approval	
Review Engineer	Date
Senior Engineer	Date
Development Engineer	Date

