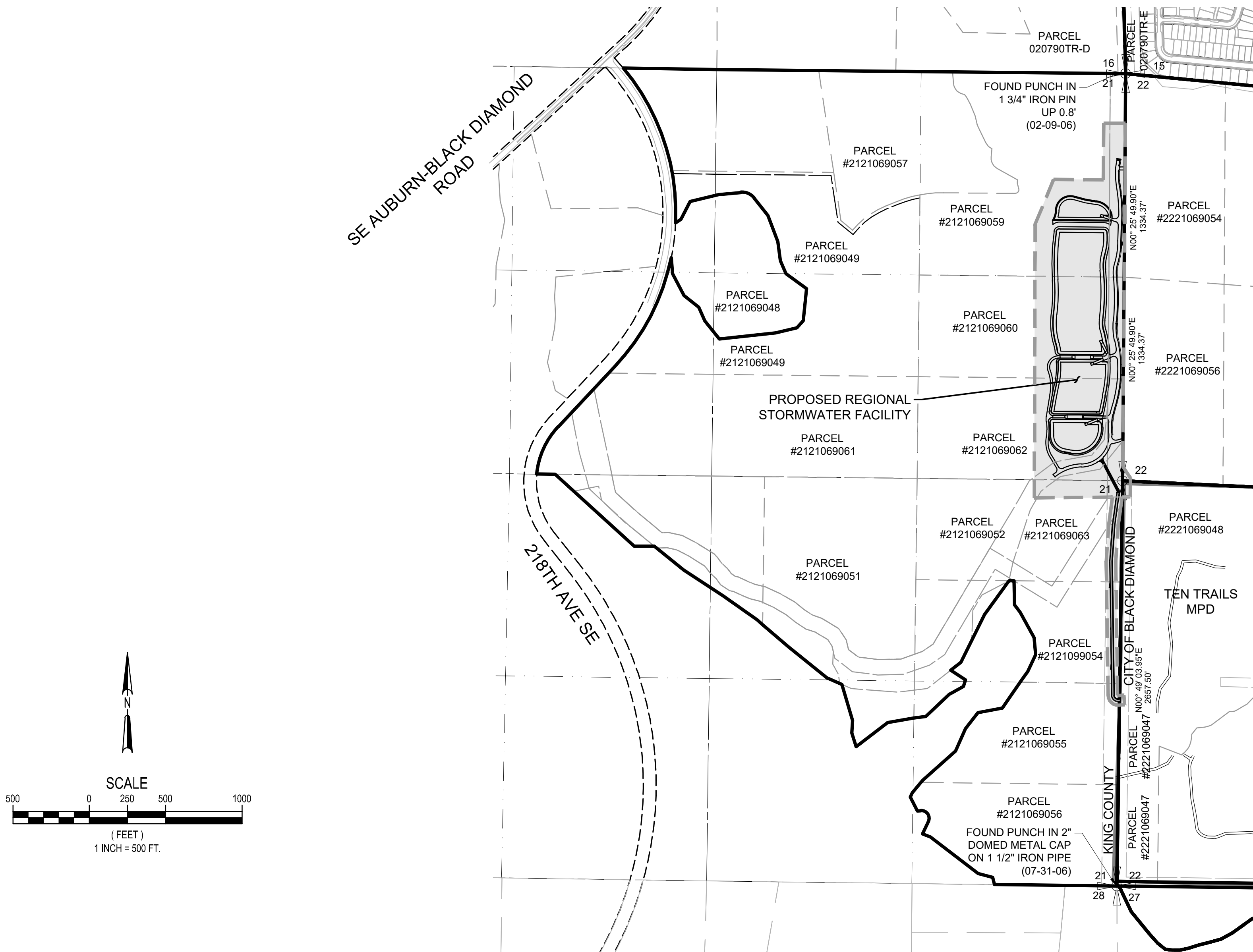


THE RESERVE AT WOODLANDS

REGIONAL STORMWATER FACILITY



SITE PLAN

SCALE: 1"=500'

LEGAL DESCRIPTION

THOSE PORTIONS OF LOT 3 OF KING COUNTY BOUNDARY LINE ADJUSTMENT NO. BLAD 15-0020 RECORDED UNDER RECORDING NO. 20150728900005.

OF PARCELS 6, 12 AND 13 OF KING COUNTY SHORT SUBDIVISION EXEMPTION REQUEST L98M0040.

OF LOT 9 OF KING COUNTY BOUNDARY LINE ADJUSTMENT NO. L09L0062 RECORDED UNDER RECORDING NO. 20100106900004.

AND OF LOT L OF KING COUNTY BOUNDARY LINE ADJUSTMENT NO. L09L0030 RECORDED UNDER RECORDING NO. 20090924900019.

ALL RECORDS OF KING COUNTY, WASHINGTON, AND ALL LYING WITHIN THE EAST HALF OF SECTION 21, TOWNSHIP 21 NORTH, RANGE 6 EAST, WILLAMETTE MERIDIAN, IN KING COUNTY, WASHINGTON, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 21; THENCE SOUTHERLY ALONG THE EAST LINE OF SAID LOT 3, SAID LINE ALSO BEING THE EAST LINE OF SAID SECTION 21, SOUTH 00°25'50" WEST, 318.36 FEET TO THE TRUE POINT OF BEGINNING;

THENCE CONTINUING SOUTHERLY ALONG SAID EAST LINE, SOUTH 00°25'50" WEST, 2350.38 FEET TO THE EAST QUARTER CORNER OF SAID SECTION 21;

THENCE CONTINUING SOUTHERLY ALONG THE EAST LINE OF SAID PARCEL 13, LOT 9 AND LOT L, SAID LINE ALSO BEING THE EAST LINE OF SAID SECTION 21, SOUTH 00°49'04" WEST, 1993.13 FEET TO THE SOUTHEAST CORNER OF SAID LOT L;

THENCE WESTERLY AND LEAVING SAID EAST LINE, ALONG THE SOUTH LINE OF SAID LOT L, NORTH 89°18'08" WEST, 537.52 FEET;

THENCE NORTHERLY AND LEAVING SAID SOUTH LINE, NORTH 00°09'38" EAST, 3673.97 FEET;

THENCE NORTHEASTERLY, NORTH 22°26'32" EAST, 318.03 FEET;

THENCE EASTERLY, SOUTH 89°32'21" EAST, 325.36 FEET;

THENCE NORTHERLY, NORTH 00°23'15" EAST, 371.42 FEET;

THENCE EASTERLY, NORTH 90°00'00" EAST, 124.01 FEET TO THE TRUE POINT OF BEGINNING.

PROJECT DESCRIPTION

THIS APPLICATION REQUESTS A GRADING PERMIT FOR THE PHASED CONSTRUCTION OF A REGIONAL STORMWATER FACILITY (FACILITY) TO BE LOCATED IN SECTION 21 OF KING COUNTY, WEST OF THE BLACK DIAMOND CITY LIMITS. THE FACILITY WILL PROVIDE WATER QUALITY TREATMENT AND INFILTRATION FOR STORMWATER FROM THE PLANNED RESERVE AT WOODLANDS MASTER PLANNED DEVELOPMENT LOCATED IN UNINCORPORATED KING COUNTY AND PORTIONS OF FUTURE DEVELOPMENT AT THE TEN TRAILS MASTER PLANNED DEVELOPMENT WHICH IS LOCATED WITHIN THE CITY OF BLACK DIAMOND, TO THE WEST OF THE FACILITY SITE. THE FACILITY WILL ALSO ALLOW FOR THE PERIODIC INFILTRATION OF PUMPED FLOOD WATERS FROM HORSESHOE LAKE, WHICH IS LOCATED APPROXIMATELY 1/2 MILES NORTH OF THE FACILITY SITE.

THE FACILITY WILL CREATE PRE-SETTLING CELL AND LARGE SAND FILTER WHICH WILL PROVIDE WATER QUALITY TREATMENT PRIOR TO FULL INFILTRATION OF ALL TRIBUTARY FLOWS. THE PRE-SETTLING CELL IS APPROXIMATELY 1.6 ACRES IN SIZE, WHILE THE SAND FILTER WILL COVER 2.8 ACRES AND THE MAIN FILTRATION CELL WILL COVER 6.3 ACRES. A SEPARATE INFILTRATION CELL OF 1.1 ACRES WILL BE PROVIDED FOR THE INFILTRATION OF PUMPED HORSESHOE LAKE FLOOD WATER. AN ESTIMATED EARTHWORK VOLUME OF 547,000 CUBIC YARDS IS ANTICIPATED TO BE DISPLACED FOR ALL PHASES OF THIS PROJECT. A TOTAL SITE DISTURBANCE OF 30.9 ACRES IS ANTICIPATED.

HORIZONTAL DATUM:

NAD 83/91

VERTICAL DATUM:

NAVD 88. ORIGINAL BENCHMARK - WGS SURVEY DATA WAREHOUSE. SURVEY CONTROL POINT DESIGNATION "Z253", DATABASE POINT ID #43270. BENCHMARK IS A USC & GS BRASS DISK, STAMPED "CGS 2 253 1944", SET IN A DRILL HOLE IN THE CONCRETE BASE OF A RAILROAD OVERPASS PIER, LOCATED ALONG THE BURLINGTON NORTHERN RAILROAD LINE, APPROXIMATELY 1/4 MILE SOUTH OF THE INTERSECTION OF SE 280TH STREET AND STATE HIGHWAY 169. THE RAILROAD OVERPASS PIER IS 3 RAILS NORTHWEST OF STATE HIGHWAY 169 AND THE BRASS DISK IS APPROXIMATELY 5.9 FEET HIGHER THAN THE RAILROAD TRACK. ELEVATION = 568.227 FEET

EARTHWORK QUANTITIES

DISTURBED AREA - 30.9 ACRES
EXCAVATION - 411,000 C.Y.

SHEET INDEX

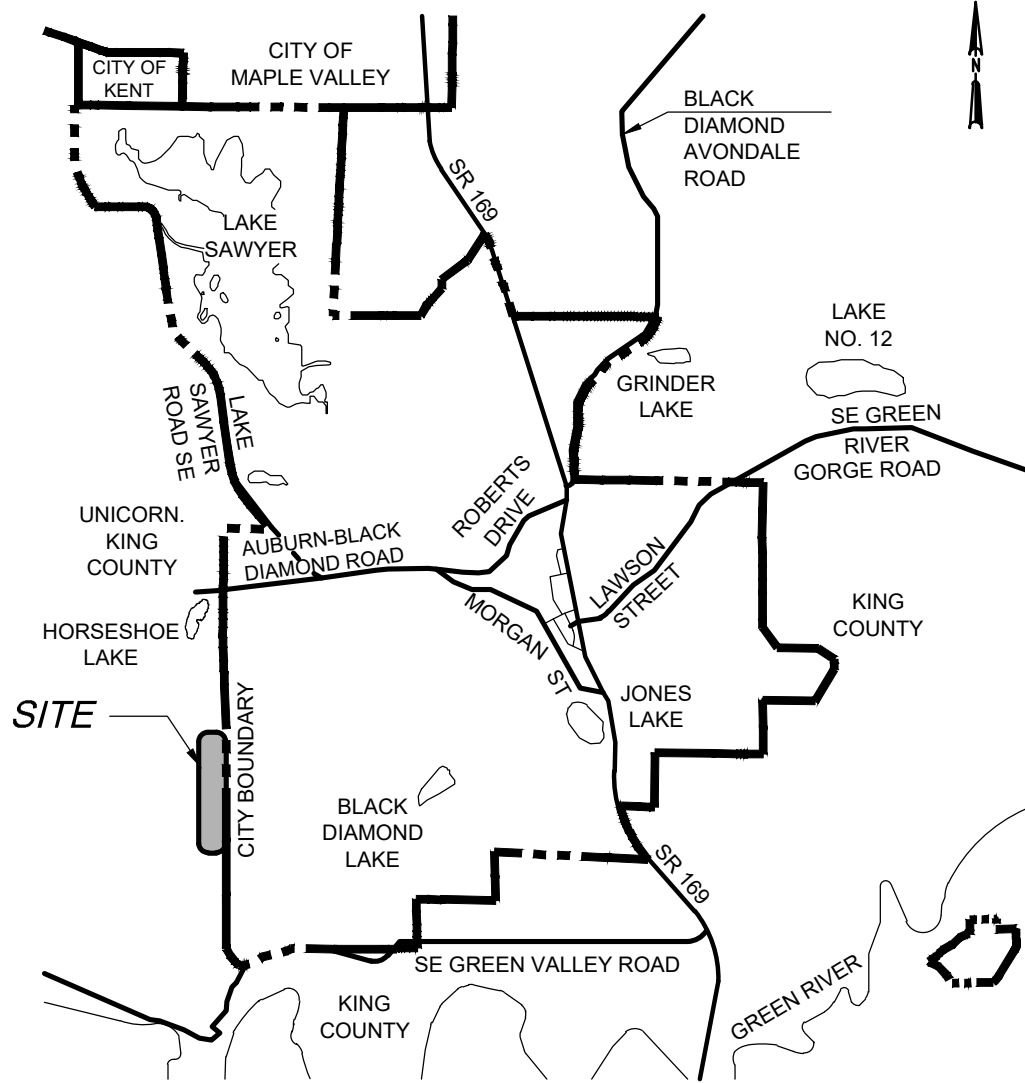
1	COVER SHEET
2	GENERAL NOTES
3-7	TEMPORARY EROSION CONTROL PLANS
8	TESC DETAILS
9-11	GRADING PLANS
12-14	POND CROSS SECTIONS
15	PRE-SETTLING CELL CONVEYANCE
16	SAND FILTER CELL CONVEYANCE
17	WEST TRAIL DRAINAGE PIPE
18-19	RESERVE AT WOODLANDS DRAINAGE PIPE
20-21	HORSESHOE LAKE OUTFALL PIPE
22-27	STORM DRAINAGE INTO PRE-SETTLING CELL
28-30	WEST TRAIL PLAN AND PROFILES
31-35	CONSTRUCTION DETAILS AND NOTES
36	CONSTRUCTION PHASING PLAN
37-41	PROVISIONAL OVERFLOW PIPE GRADING AND TESC PLANS

CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN TWO FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. EXISTING UTILITIES TO BE LOCATED, PROTECTED, AND REPAIRED IN ACCORDANCE WITH RCW 19.122.

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

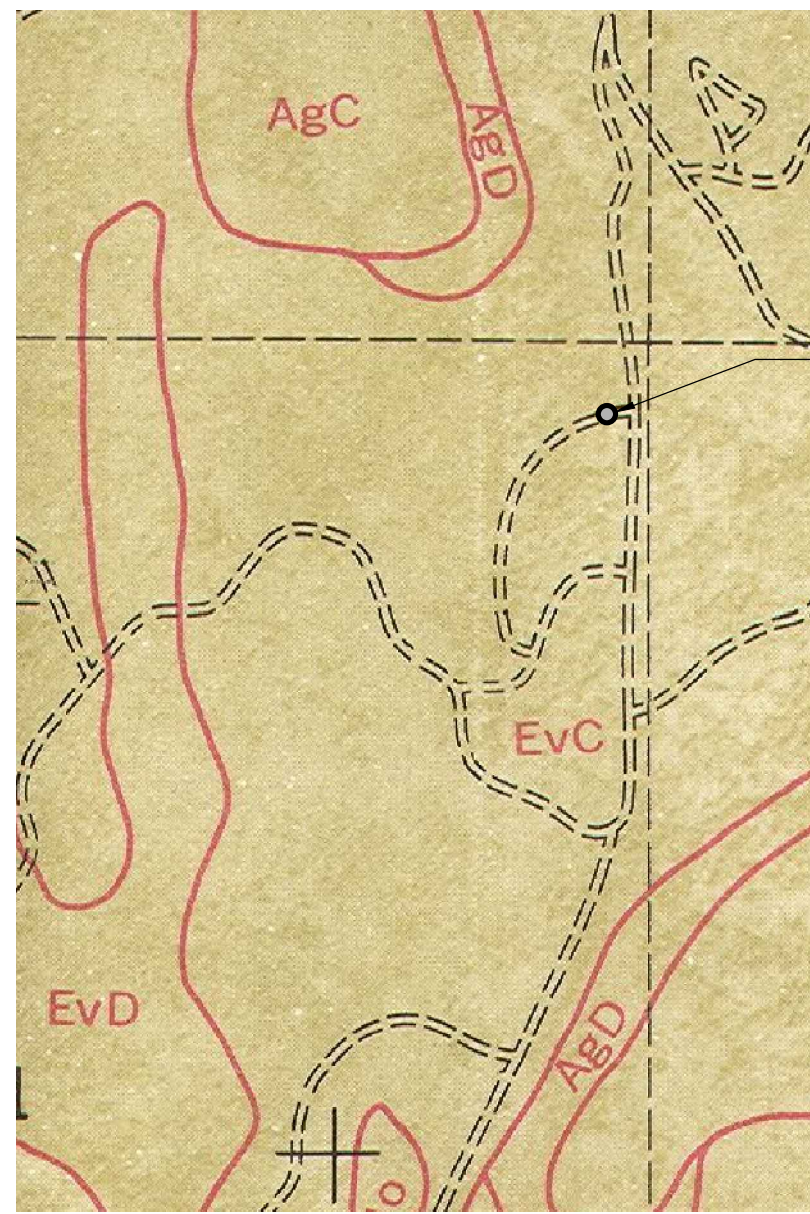
Vicinity Map

Scale: 1"=5000'



Soils Map

Not to Scale



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.

Sanitary Sewer	Phone
COVINGTON WATER DISTRICT	(253) 631-0565
Water District	Phone
PUGET SOUND ENERGY	(253) 395-7065
Gas Company	Phone
PUGET SOUND ENERGY	(253) 395-7065
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:
 - Installing siltation and erosion control measures
 - Clearing and grubbing
 - Earthwork
 - Installation of any underground utility
 - Before placing subbase, base or paving surfaces
 - Installation of any forms or placing any concrete
- 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.
- 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
21	21	06	

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: _____ N/A

Expiration Date: _____ N/A

Other Related Permit Numbers Received: _____

Right-of-Way Use Permit _____

Grading _____

Building/Structural _____ N/A

Other _____ N/A

Board feet of tree removal on site: _____ TBD

Cubic yards of material hauled on/off the site: _____ 547,000

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)

Applicant	Contractor	Owner	Lessee	JUSTIN WORTMAN	(425) 898-2100
				Name	Phone
☐	☒	☐	☐	3025 112TH AVENUE NE, SUITE 100, BELLEVUE, WA 98004	
				Address	
Ownership	Owner	Trustee		CCD BLACK DIAMOND PARTNERS, LLC	(425) 898-2100
				Name	Phone
				3025 112TH AVENUE NE, SUITE 100, BELLEVUE, WA 98004	
				Address	

☒ Partnership
☐ Individual

☐ Corporation
☒ Partnership
☐ Individual

DAVID EVANS AND ASSOCIATES, INC. (425) 415-2000
Name CONTACT: ADAM STICKER, PE Phone
JOHN CHRISTENSEN, PS
20300 WOODINVILLE SNOHOMISH RD NE WOODINVILLE, WA 98072
Address

REGIONAL STORMWATER FACILITY
THE RESERVE AT WOODLANDS

KING COUNTY, WASHINGTON

Permit Number: _____
Related Permit Numbers: _____

License/Seal



11/14/2024

Sheet 1 of 41

CONTRACTOR'S OBLIGATIONS:

1. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS, WHICH IN AGGREGATE CONTROL THE WORK USING THE FOLLOWING PRECEDENCE. WHERE CONFLICTS OCCUR, ITEMS HIGHER ON THE LIST PREVAIL OVER ITEMS LOWER ON THE LIST.
 - a. DIRECTION GIVEN BY THE PUBLIC WORKS DIRECTOR
 - b. FIELD DIRECTIVES AND FIELD CHANGES
 - c. THESE PLANS AND SPECIFICATIONS
 - d. KING COUNTY CODES AND STANDARDS
 - e. STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA, LATEST EDITION)
2. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. 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 CONTRACT.
4. ANY WORK WITHIN THE RIGHT-OF-WAY MUST PROCEED IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. TEMPORARY TRAFFIC STOPPAGE IS NOT ALLOWED (EVEN FOR DELIVERIES) UNLESS AN APPROVED TRAFFIC CONTROL PLAN HAS BEEN SUBMITTED AND APPROVED.
5. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE, BASED ON INFORMATION PROVIDED BY OTHERS, AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHICH POTENTIAL UTILITY CONFLICTS MIGHT AFFECT THE DESIGN OR PROGRESS OF THE WORK AND POTENTIAL THOSE POTENTIAL UTILITY CONFLICTS IN ADVANCE OF THE WORK. THE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT ALL UTILITY OWNERS AND THE ONE-CALL LOCATE SERVICE TO CONFIRM UTILITY LOCATIONS AND HAVE THEM FIELD LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT OR RELOCATE (AS REQUIRED) EXISTING CONFLICTING UTILITIES AS DIRECTED BY THE KING COUNTY.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY CUT SLOPES AND TEMPORARY SHORING AS NECESSARY FOR THE CONSTRUCTION AS SHOWN. ALL SHORING DESIGNS OVER 4 FEET HIGH MUST BE STAMPED BY A WASHINGTON STATE P.E. THE STABILITY OF ALL TEMPORARY SLOPES AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF CRITICAL AREAS AND THEIR BUFFERS. IN THE EVENT AREAS ARE DISTURBED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR FULL RESTORATION AND MITIGATION AS DIRECTED BY THE KING COUNTY.
8. A COPY OF THE SURFACE WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE ON-SITE AT ALL TIMES.
9. AS BUILT PLANS ARE REQUIRED PRIOR TO ACCEPTANCE OF THE WORK BY KING COUNTY. CONTRACTORS SHALL MAINTAIN ACCURATE FIELD RECORDS OF ALL IMPROVEMENTS INCLUDING REDLINES, PHOTOGRAPHS AND FIELD NOTES. THESE MUST BE AVAILABLE FOR PERIODIC REVIEW BY KING COUNTY AND WORK MAY BE STOPPED IF ACCURATE RECORDS ARE NOT BEING MAINTAINED. CONTRACTORS SHALL OBTAIN AND MAINTAIN THE SERVICES OF A PROFESSIONAL ENGINEER AND A PROFESSIONAL SURVEYOR TO PREPARE AND CERTIFY (STAMP AND SIGN) THE AS-BUILT PLANS AS FOLLOWS:
 - a. AS-BUILT CONDITIONS AND CONFIGURATION SHALL BE SUBMITTED ON CLEAN MYLARS IN THE SAME FORMAT AS THE DESIGN PLANS. ALL FIELD REVISIONS AND DEVIATIONS SHALL BE SHOWN ON THE AS-BUILT MYLARS (NO CROSS-OUTS, NO OVER-TYPES).
 - b. AS-BUILT MYLARS MUST BE SUBMITTED PRIOR TO ACCEPTANCE OF THE WORK BY KING COUNTY, AND PRIOR TO RELEASE OF BONDS.
 - c. EVERY AS-BUILT MYLAR SHALL HAVE THE FOLLOWING NOTE THAT IS SIGNED AND SEALED BY THE ENGINEER AND SURVEYOR: "I, _____ (THE ENGINEER OR SURVEYOR OF RECORD) HEREBY CERTIFY THAT THE INFORMATION SHOWN ON THESE RECORD DRAWINGS ACCURATELY REFLECTS THE AS-BUILT CONDITION AS OF _____ (DATE) AND MEETS THE INTENT OF THE DESIGN."
10. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL AGENCY SAFETY STANDARDS.

SPECIAL CONDITIONS:

THE FOLLOWING SPECIAL CONDITIONS APPLY TO THIS WORK

1. AN NPDES PERMIT WILL BE REQUIRED FOR THIS WORK. A COPY OF THE PERMIT MUST BE ON SITE AT ALL TIMES AND ALL WORK SHALL COMPLY WITH THE NPDES PERMIT.
2. ALL CLEARING AND GRADING SHALL COMPLY WITH THE KING COUNTY CODE (KCC), THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS).
3. ALL CONTRACTORS SHALL HAVE A KING COUNTY LICENSE.

GRADING AND EARTHWORK:

1. ALL OFF-SITE ROADWAYS MUST BE KEPT CLEAN AND FREE OF SEDIMENT DIRT, MUD AND DEBRIS.
2. ALL BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR UNLESS OTHERWISE NOTED.
3. A LICENSED GEOTECHNICAL ENGINEER SHALL SUPERVISE ALL FILLS. CONSTRUCTION RECORDS OF SOIL ACTIVITIES AND COMPACTION TESTING SHALL BE TRANSMITTED TO KING COUNTY AND OWNER ON A WEEKLY BASIS. ALL TESTS SHALL INCLUDE A MAP SHOWING THE TESTING LOCATION.
4. EACH CONTRACTOR SHALL BE REQUIRED TO PROVIDE A CERTIFIED "EROSION CONTROL SUPERVISOR" (ECS) THAT MUST BE ON-SITE WHENEVER EARTHWORK OR OTHER ACTIVITY THAT MIGHT RESULT IN TURBID RUNOFF IS BEING PERFORMED. THE ECS SHALL MAKE PERIODIC (AT LEAST DAILY) CHECKS OF THE APPLICABLE EROSION CONTROL SYSTEMS AND PERFORM REPAIRS AND UPGRADES IMMEDIATELY AS NEEDED. FAILURE TO MAINTAIN EFFECTIVE TESC MEASURES OR PROVIDE A CERTIFIED ECS SHALL RESULT IN WORK STOPPAGE.
5. KING COUNTY SHALL PROVIDE PERIODIC INSPECTIONS BY A "KING COUNTY CERTIFIED EROSION CONTROL SUPERVISOR" (CECS), DIRECTIVES PROVIDED BY THE CECS, TO THE EXTENT THEY CONFLICT WITH THE ECS, SHALL PREVAIL. THE CONTRACTOR SHALL IMPLEMENT ALL REVISIONS AND ADDITIONS REQUESTED BY THE CECS AS SOON AS POSSIBLE.
6. SAMPLES OF PROPOSED IMPORTED SOILS, INCLUDING TOPSOIL, SHALL BE SUBMITTED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER PRIOR TO BEING BROUGHT ON-SITE.

POST CONSTRUCTION SOIL BMP:

POST-CONSTRUCTION SOIL QUALITY AND DEPTH NOTES

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A pH FROM 6.0 TO 8.0 OR MATCHING THE pH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF 8 INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OR AMENDMENTS NEEDED TO MEET THE CRITERIA. SUB-SOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS WHERE FEASIBLE.
2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATTER.
3. USE COMPOST OR OTHER MATERIALS THAT MEET THE FOLLOWING ORGANIC CONTENT REQUIREMENTS:
 - 3.1. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30) WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - 3.2. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING ABOVE (3.1) OR OTHER ORGANIC MATTER AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.

IMPLEMENTATION OPTIONS

THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. AMEND EXISTING SITE TOPSOIL OR SUB-SOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

KING COUNTY GENERAL 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 (KCRDCS), 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 LOCAL SERVICES, PERMITTING DIVISION(DLS-PERMITTING) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DLS-PERMITTING 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 DLS-PERMITTING'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 KCRDCS CHAPTER 8 ARE SUBMITTED TO THE DLS-PERMITTING'S DEVELOPMENT INSPECTOR THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE NAVD88 UNLESS OTHERWISE APPROVED BY DLS-PERMITTING.
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 DLS-PERMITTING AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRDCS.
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 ON 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.

KING COUNTY DRAINAGE NOTES:

1. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO DLS-PERMITTING 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 HOMEOWNER.
9. 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 CAPAKING CAPACITY OF THE SOIL, OR; AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPAKING CAPACITY.
10. SEASONAL CLEARING IS LIMITED BETWEEN OCTOBER 1 AND APRIL 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
11. IMPROVEMENTS AND/OR BUILDINGS SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE "IN OPERATION", (KCC 9.04).

KING COUNTY EROSION AND SEDIMENTATION CONTROL NOTES:

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 UPGRADE 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 B M P 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 DLS-PERMITTING SITE INSPECTOR) OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
11. AT A 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 PERM ANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH 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 SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DLS-PERMITTING INSPECTOR FOR REVIEW.

STORM DRAINAGE GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO KING COUNTY STANDARDS, THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON BY THE DEPARTMENT OF ECOLOGY, AND THE WSDOT STANDARD SPECIFICATIONS.
2. ALL PERMANENT CONVEYANCE SYSTEM WITHIN THIS APPROVED PLAN SET USED AS PART OF THE TEMPORARY EROSION CONTROL AND WATER POLLUTION / FLOOD ACTIVITIES INCLUDING CATCH BASINS AND PIPES SHALL BE CLEANED OF ALL SILTS, SAND, AND OTHER MATERIALS FOLLOWING COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PLAT ACCEPTANCE. ANY PONDS USED SHALL BE CLEANED AND RESTORED TO THE APPROVED PLANS PRIOR TO CONVEYING TO KING COUNTY.
3. STORM DRAIN PIPE SHALL BE PVC, CONCRETE, DUCTILE IRON OR PE IN ACCORDANCE WITH KING COUNTY STANDARDS. ALL PIPES SHALL BE RATED FOR H20 TRAFFIC LOADS UNDER THE INSTALLED CONDITION AND CONFIGURATION.
4. ALL STORM WATER PIPES SHALL BE PRESSURE TESTED BETWEEN CATCH BASINS AND TV INSPECTED. RECORDS OF ALL INSPECTIONS SHALL BE PROVIDED TO THE MDRT PRIOR TO FINAL INSPECTION.
5. INSTALL TRACER TAPE ON ALL NON-FERROUS STORM LINES THAT ARE NOT STRAIGHT BETWEEN CATCH BASINS OR STORM MANHOLES. ENDS OF TRACER TAPE TO BE SECURED IN STRUCTURE OR IN CLEANOUTS.
6. STORM CLEANOUTS ON LOTS SHALL BE ADJUSTED TO FINISH GRADE WITH LOT DEVELOPMENT. STORM CLEANOUTS WITHIN PROPOSED RIGHT OF WAY OUTSIDE OF HARDSCAPE SHALL BE ADJUSTED TO FINISH GRADE WITH LANDSCAPE INSTALLATION.

CONSTRUCTION STORMWATER POLLUTION PREVENTION CONSTRUCTION SEQUENCE :

1. PRE-CONSTRUCTION MEETING.
2. POST SIGN WITH NAME AND PHONE NUMBER OF CSWPPP/ESC SUPERVISOR (M AY 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

CONSTRUCTION SEQUENCE:

1. THE CONSTRUCTION SEQUENCE SHALL GENERALLY BE AS FOLLOWS:
 - a. SUBMIT BLACK DIAMOND BUSINESS LICENSE AND PROOF OF INSURANCE TO THE MDRT.
 - b. OBTAIN APPROVAL FROM KING COUNTY FOR ALL NECESSARY PERMITS AND AUTHORIZATIONS. DELIVER APPROVED MYLAR PLANS TO THE KING COUNTY MDRT.
 - c. SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE.
 - d. COMPLY WITH ALL DIRECTIVES, IDENTIFIED DURING THE PRECONSTRUCTION CONFERENCE, NECESSARY PRIOR TO SITE MOBILIZATION
 - e. SUBMIT BONDS AS REQUIRED BY BDMC.
 - f. COMMENCE AND COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE IN THE KING COUNTY CODE (KCC), THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), INCLUDING THE FOLLOWING SPECIAL ACTIVITIES: 1) POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR AT SITE FRONTAGE. 2) MAINTAIN PERIMETER EROSION CONTROL FACILITIES UNTIL SITE IS STABILIZED AND CONSTRUCTION IS COMPLETE.
2. AFTER ALL WORK IS COMPLETE SCHEDULE AND REQUEST A PUNCHLIST INSPECTION FROM THE MDRT.
3. DELIVER DRAFT AS-BUILT PLANS FOR REVIEW BY THE MDRT
4. COMPLETE ALL PUNCHLIST ITEMS AND FINAL TESTING.
5. RECEIVE CERTIFICATION FROM KING COUNTY THAT ALL WORK IS COMPLETE AND THE AS-BUILT PLANS ARE ACCEPTABLE.
6. PROVIDE APPLICABLE AND REQUIRED MAINTENANCE BONDS.
7. DEMOBILIZE AND PROVIDE FINAL SITE CLEANUP.
8. REQUEST RELEASE OF BONDS.



DATE:	BY:	OK
REVIEWED BY:	NO.	DATE
NO.	DATE	REVISION



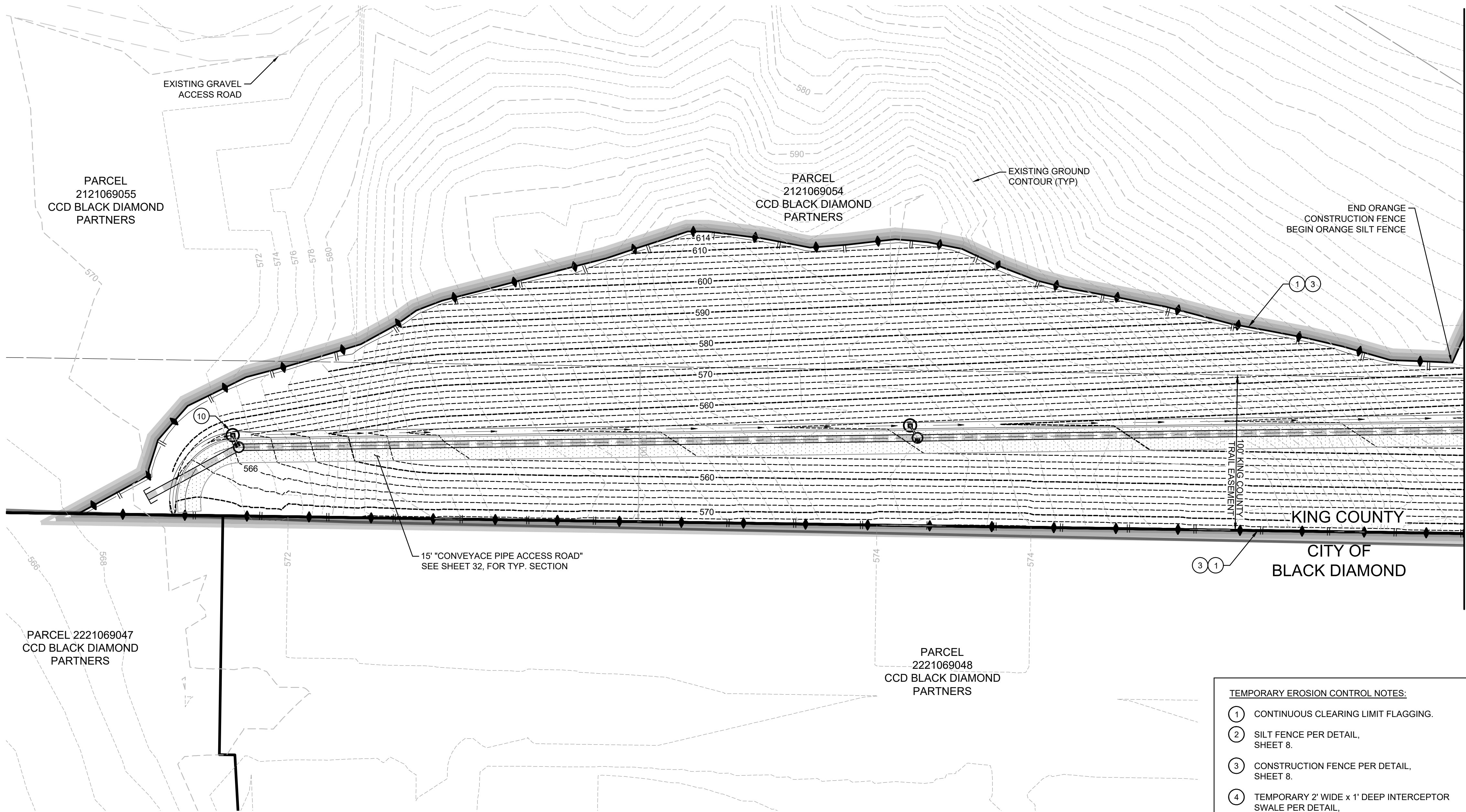
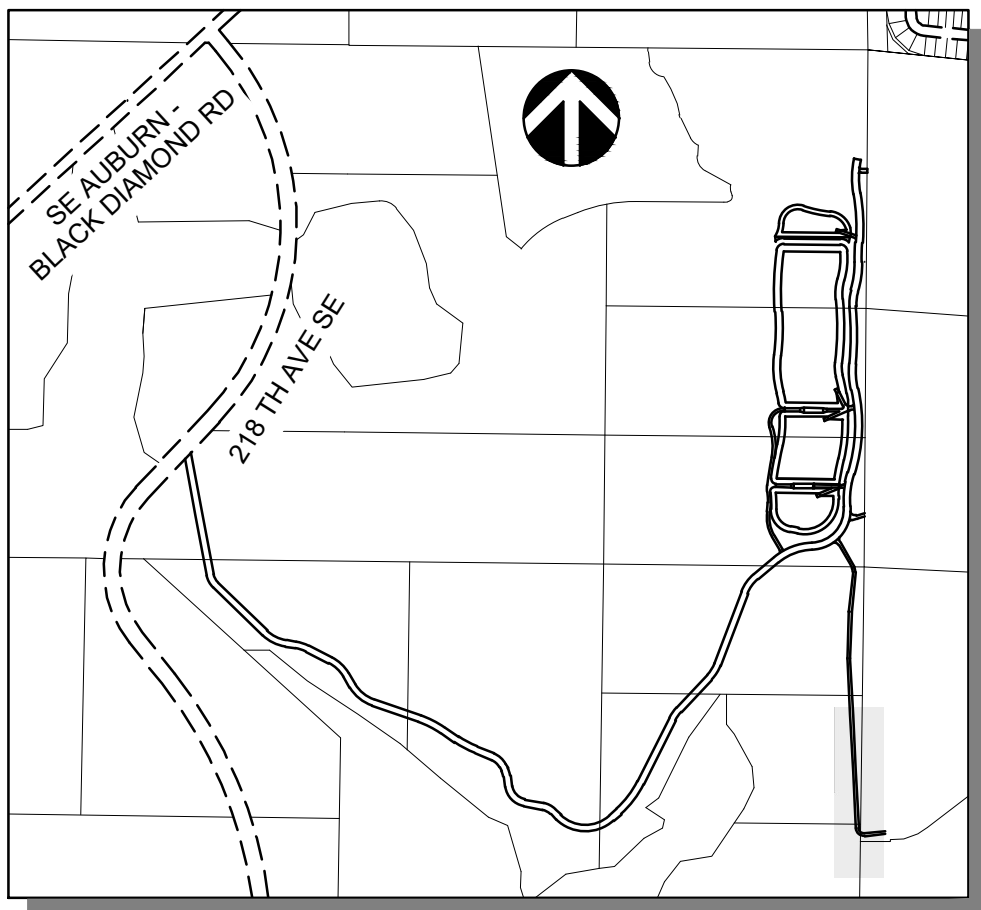
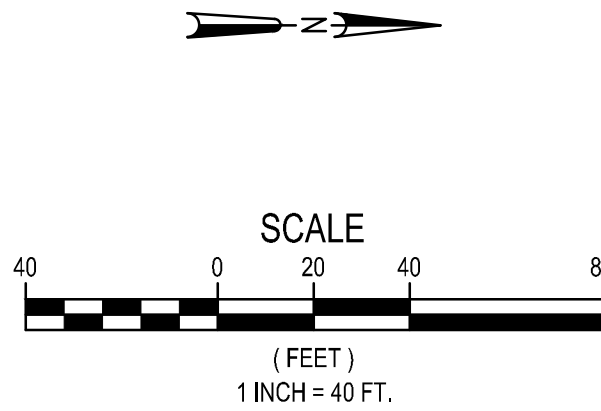
11/14/2024

CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDBP6001

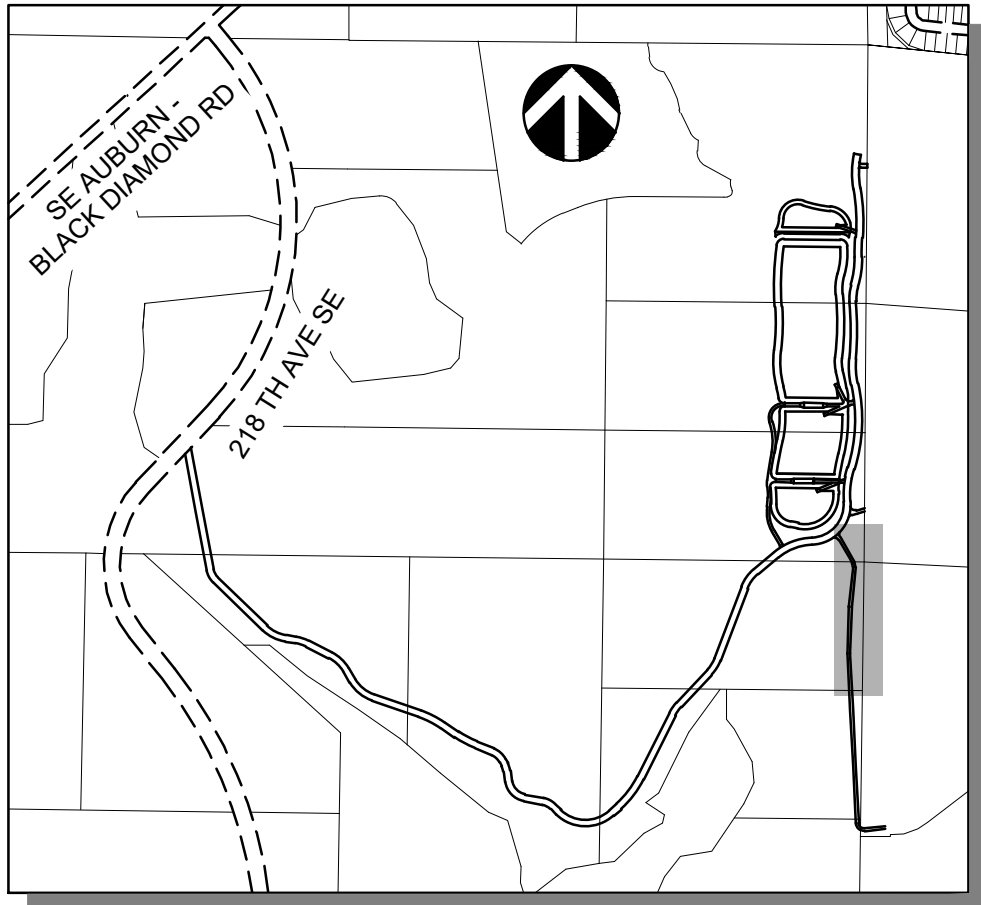
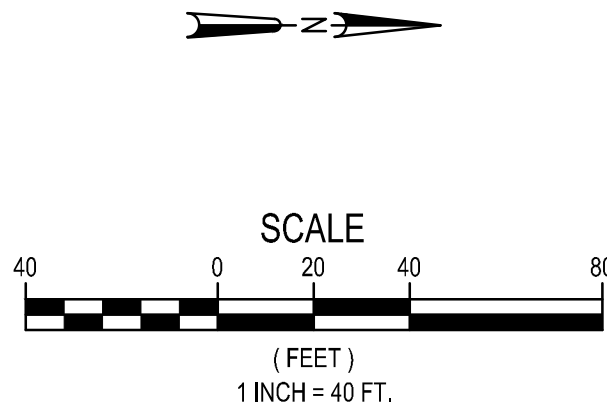
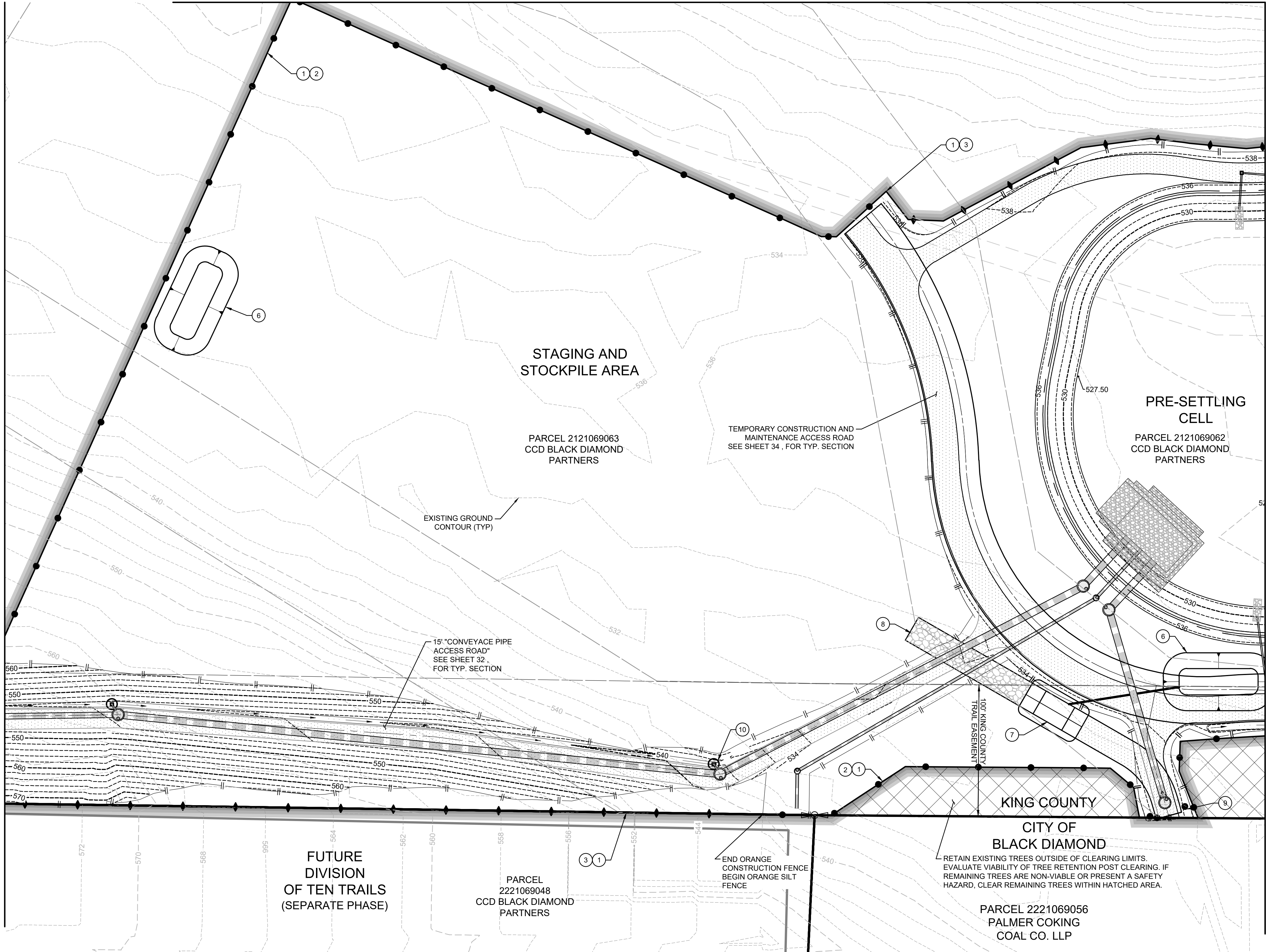
SHEET NO.



SEE SHEET 4

LEGEND	
PROPOSED FEATURES	
BOUNDARY	RIGHT-OF-WAY
GUTTER, FLOW, & CURB LINE	CURB RAMP
CENTER LINE	STREET LIGHT
EASEMENT	PROPOSED GRAVEL
EDGE OF WETLAND	PROPOSED ASPHALT PAVEMENT
BUFFER LINE	PROPOSED SIDEWALK
FENCE	PROPOSED CONCRETE
BARRICADE	
SIGN	
GRADING AND TEMPORARY EROSION AND SEDIMENTATION CONTROL	
10' PROPOSED CONTOURS	ROCK CHECK DAM
2' PROPOSED CONTOURS	TEMPORARY CB, TYPE I
FILTER FENCE	TEMPORARY CB, TYPE II
CONSTRUCTION FENCE	PIPE FLOW
TREE PROTECTION FENCE	INTERIM CB PROTECTION (INSERT)
LIMITS OF CLEARING	RIPRAP
TEMP INTERCEPTOR SWALE	
PROPOSED STORM DRAINAGE	
STORM DRAIN PIPE	CATCH BASIN, TYPE I
SWALE OR DITCH	CATCH BASIN, TYPE II
STREET FLOW	PIPE FLOW
PROPOSED SANITARY SEWER	
SEWER MAIN	SEWER MANHOLE
SEWER FORCE MAIN	PIPE FLOW
	SEWER CLEANOUT
PROPOSED WATER	
WATER MAIN	FIRE HYDRANT
RESTRAINED JOINT PIPE	GATE VALVE
IRRIGATION METER	TEE
AIR/VAC RELEASE VALVE	BEND
BLOW OFF	CONCRETE BLOCKING
EXISTING FEATURES	
RIGHT-OF-WAY	EXISTING GUY ANCHOR
10' EXISTING MAJOR CONTOUR	EXISTING POWER VAULT
2' EXISTING MINOR CONTOUR	EXISTING TELEPHONE VAULT
EXISTING STORM DRAIN PIPE	
EXISTING AERIAL POWER LINE	EXISTING STREET LIGHT
EXISTING TELEPHONE LINE	EXISTING SIGN
EXISTING SEWER MAIN	EXISTING GRAVEL
EXISTING GAS LINE	EXISTING CONCRETE
EXISTING CATCH BASIN	EXISTING ASPHALT
EXISTING WATER METER	EXISTING FIRE HYDRANT
EXISTING GATE VALVE	EXISTING POWER POLE
EXISTING MONUMENT	EXISTING FENCE

- TEMPORARY EROSION CONTROL NOTES:**
- CONTINUOUS CLEARING LIMIT FLAGGING.
 - SILT FENCE PER DETAIL, SHEET 8.
 - CONSTRUCTION FENCE PER DETAIL, SHEET 8.
 - TEMPORARY 2' WIDE x 1' DEEP INTERCEPTOR SWALE PER DETAIL, SHEET 8.
 - ROCK CHECK DAM PER DETAIL, SHEET 8.
 - INFILTRATION SEDIMENT TRAP PER DETAIL SHEET 8.
 - WHEEL WASH FACILITY. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF WHEEL WASH FOR CITY APPROVAL PRIOR TO CONSTRUCTION.
 - 100' LONG CONSTRUCTION ENTRANCE PER DETAIL, SHEET 8. 20' MINIMUM WIDTH.
 - CONTRACTOR TO INSTALL SIGN WITH SITE ADDRESS AND CONSTRUCTION SITE MAP. CONSTRUCTION SITE MAP SHALL PROVIDE DIRECTIONS TO EMPLOYEE PARKING AND CONSTRUCTION STAGING AREA ALONG WITH DIRECTIONS TO THE CONSTRUCTION TRAILER SITE.
 - CATCH BASIN TEMPORARY INLET PROTECTION SHEET 8.



KEY MAP
NOT TO SCALE

TEMPORARY EROSION CONTROL NOTES:

- 1 CONTINUOUS CLEARING LIMIT FLAGGING.
- 2 SILT FENCE PER DETAIL, SHEET 8.
- 3 CONSTRUCTION FENCE PER DETAIL, SHEET 8.
- 4 TEMPORARY 2' WIDE x 1' DEEP INTERCEPTOR SWALE PER DETAIL, SHEET 8.
- 5 ROCK CHECK DAM PER DETAIL, SHEET 8.
- 6 INFILTRATION SEDIMENT TRAP PER DETAIL SHEET 8.
- 7 WHEEL WASH FACILITY. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF WHEEL WASH FOR CITY APPROVAL PRIOR TO CONSTRUCTION.
- 8 100' LONG CONSTRUCTION ENTRANCE PER DETAIL, SHEET 8. 20' MINIMUM WIDTH.
- 9 CONTRACTOR TO INSTALL SIGN WITH SITE ADDRESS AND CONSTRUCTION SITE MAP. CONSTRUCTION SITE MAP SHALL PROVIDE DIRECTIONS TO EMPLOYEE PARKING AND CONSTRUCTION STAGING AREA ALONG WITH DIRECTIONS TO THE CONSTRUCTION TRAILER SITE.
- 10 CATCH BASIN TEMPORARY INLET PROTECTION SHEET 8.

CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN TWO FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. EXISTING UTILITIES TO BE LOCATED, PROTECTED, AND REPAIRED IN ACCORDANCE WITH RCW 19.122.



**DAVID EVANS
AND ASSOCIATES INC.**
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

TEMPORARY EROSION CONTROL PLAN

WASHINGTON

KING COUNTY

DATE: BY: OK

REVIEWED BY: NO. DATE REVISION



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OKPCBDP6001

SHEET NO.

FUTURE DIVISION
OF THE RESERVE
AT WOODLANDS
(SEPARATE PHASE)

SCALE

(FEET)
1 INCH = 40 FT.



KEY MAP
NOT TO SCALE

TEMPORARY EROSION CONTROL NOTES:

1. CONTINUOUS CLEARING LIMIT FLAGGING.
2. SILT FENCE PER DETAIL, SHEET 8.
3. CONSTRUCTION FENCE PER DETAIL, SHEET 8.
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STAGING AND STOCKPILE AREA
PARCEL 2121069063
CCD BLACK DIAMOND PARTNERS

PRE-SETTLING CELL
PARCEL 2121069062
CCD BLACK DIAMOND PARTNERS

LARGE SAND FILTER CELL
PARCEL 2121069062
CCD BLACK DIAMOND PARTNERS

INFILTRATION CELL

KING COUNTY CITY OF BLACK DIAMOND

FUTURE DIVISION OF THE RESERVE AT WOODLANDS (SEPARATE PHASE)

PROPOSED GRADING WITHIN THE CITY OF BLACK DIAMOND UNDER SEPARATE PERMIT WITH THE CITY
PARCEL 2221069056
PALMER COKING COAL CO. LLP

5' WIDE DRAINAGE DITCH (TYP)
SEE DETAIL SHEET 34 MIN. 0.5% SLOPE

RETAIN EXISTING TREES OUTSIDE OF CLEARING LIMITS. EVALUATE VIABILITY OF TREE RETENTION POST CLEARING. IF REMAINING TREES ARE NON-VIABLE OR PRESENT A SAFETY HAZARD, CLEAR REMAINING TREES WITHIN HATCHED AREA.

TEMPORARY CONSTRUCTION AND MAINTENANCE ACCESS ROAD
SEE SHEET 34, FOR TYP. SECTION

EXISTING GROUND CONTOUR (TYP)

PROPOSED GRADE CONTOUR (TYP)

EXISTING GRAVEL ACCESS ROAD

END ORANGE CONSTRUCTION FENCE BEGIN ORANGE SILT FENCE

100' KING COUNTY TRAIL EASEMENT

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1 2

8

7

10

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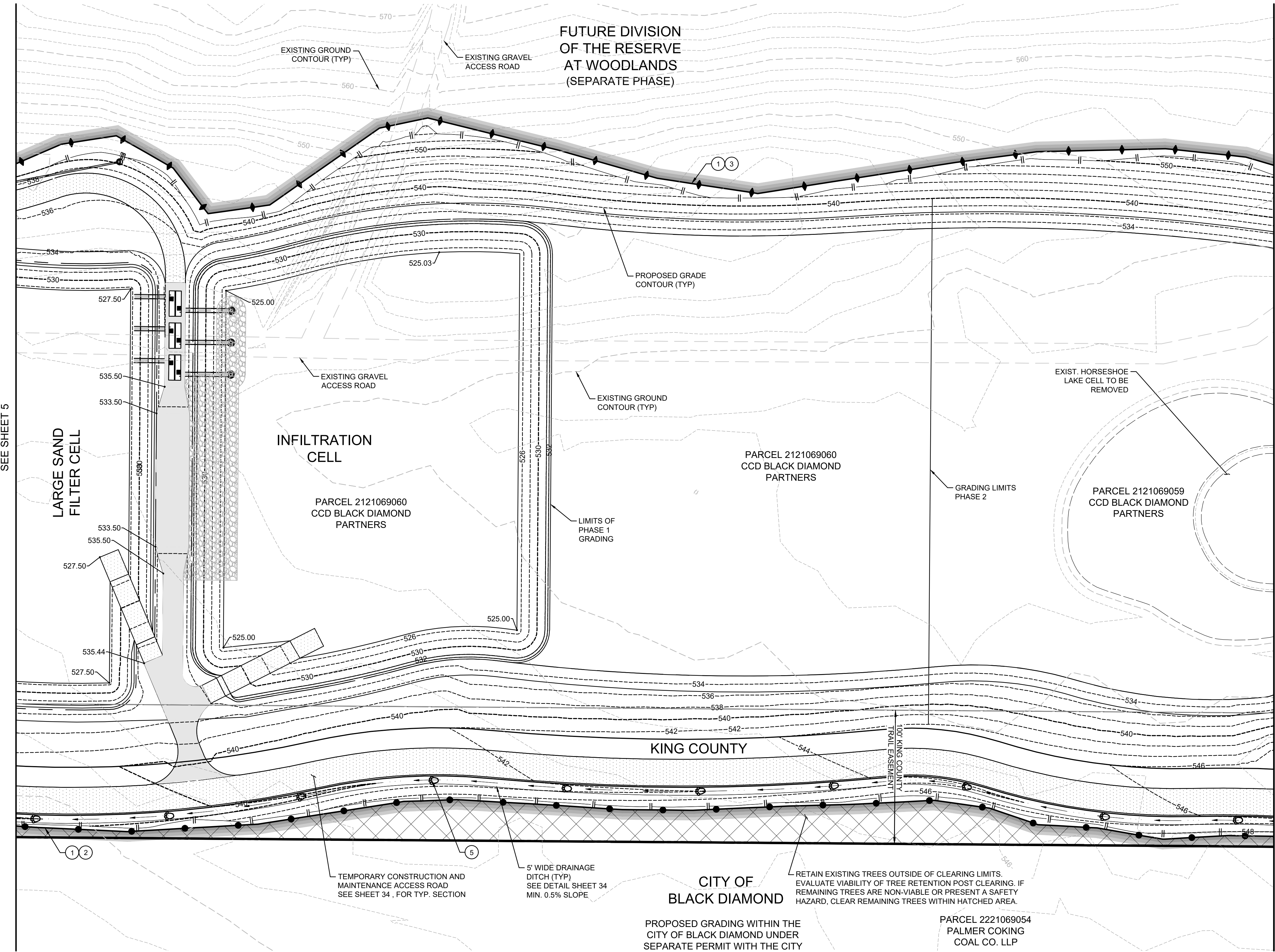
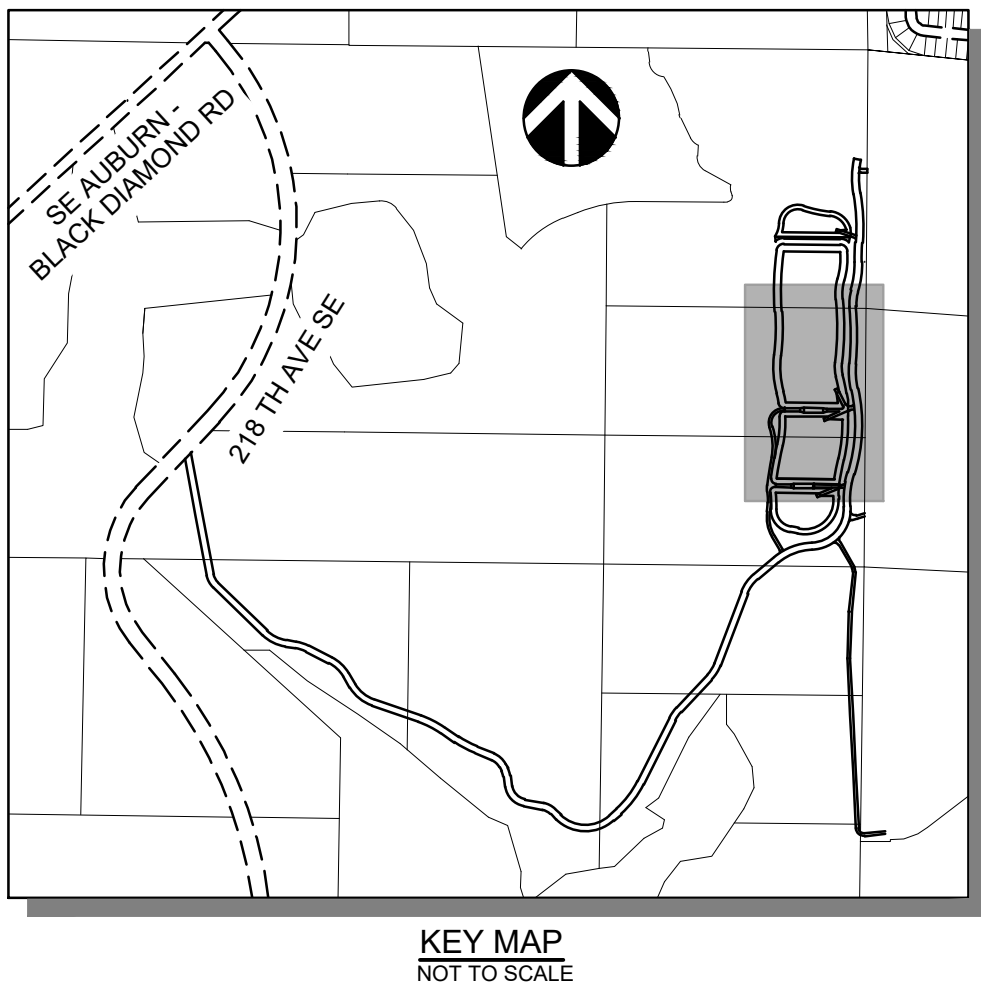
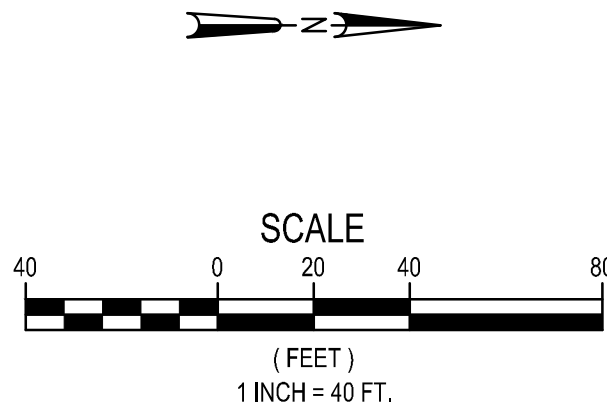
SEE SHEET 4

SEE SHEET 6

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Save Date: 6/25/2024 12:45 PM
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By: Dxm File: P:\O\OAKPCBDP6001\0400CAD\EC\FINAL\Ten_Trails\Phase 3\Reserve Pond\Grading_Utilities\EC-F-OAKPCBDP6001_P3RP.dwg

By: Doug Merriam
By: Dxme File: P:

Plot Date: 6/25/2024 2:26 PM
Save Date: 6/25/2024 12:45 PM



TEMPORARY EROSION CONTROL NOTES:

- 1 CONTINUOUS CLEARING LIMIT FLAGGING.
- 2 SILT FENCE PER DETAIL, SHEET 8.
- 3 CONSTRUCTION FENCE PER DETAIL, SHEET 8.
- 4 TEMPORARY 2' WIDE x 1' DEEP INTERCEPTOR SWALE PER DETAIL, SHEET 8.
- 5 ROCK CHECK DAM PER DETAIL, SHEET 8.
- 6 INFILTRATION SEDIMENT TRAP PER DETAIL SHEET 8.
- 7 WHEEL WASH FACILITY. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF WHEEL WASH FOR CITY APPROVAL PRIOR TO CONSTRUCTION.
- 8 100' LONG CONSTRUCTION ENTRANCE PER DETAIL, SHEET 8. 20' MINIMUM WIDTH.
- 9 CONTRACTOR TO INSTALL SIGN WITH SITE ADDRESS AND CONSTRUCTION SITE MAP. CONSTRUCTION SITE MAP SHALL PROVIDE DIRECTIONS TO EMPLOYEE PARKING AND CONSTRUCTION STAGING AREA ALONG WITH DIRECTIONS TO THE CONSTRUCTION TRAILER SITE.
- 10 CATCH BASIN TEMPORARY INLET PROTECTION SHEET 8.

CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN TWO FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. EXISTING UTILITIES TO BE LOCATED, PROTECTED, AND REPAIRED IN ACCORDANCE WITH RCW 19.122.

REVIEWED BY: NO. DATE REVISION

DATE: BY: OK

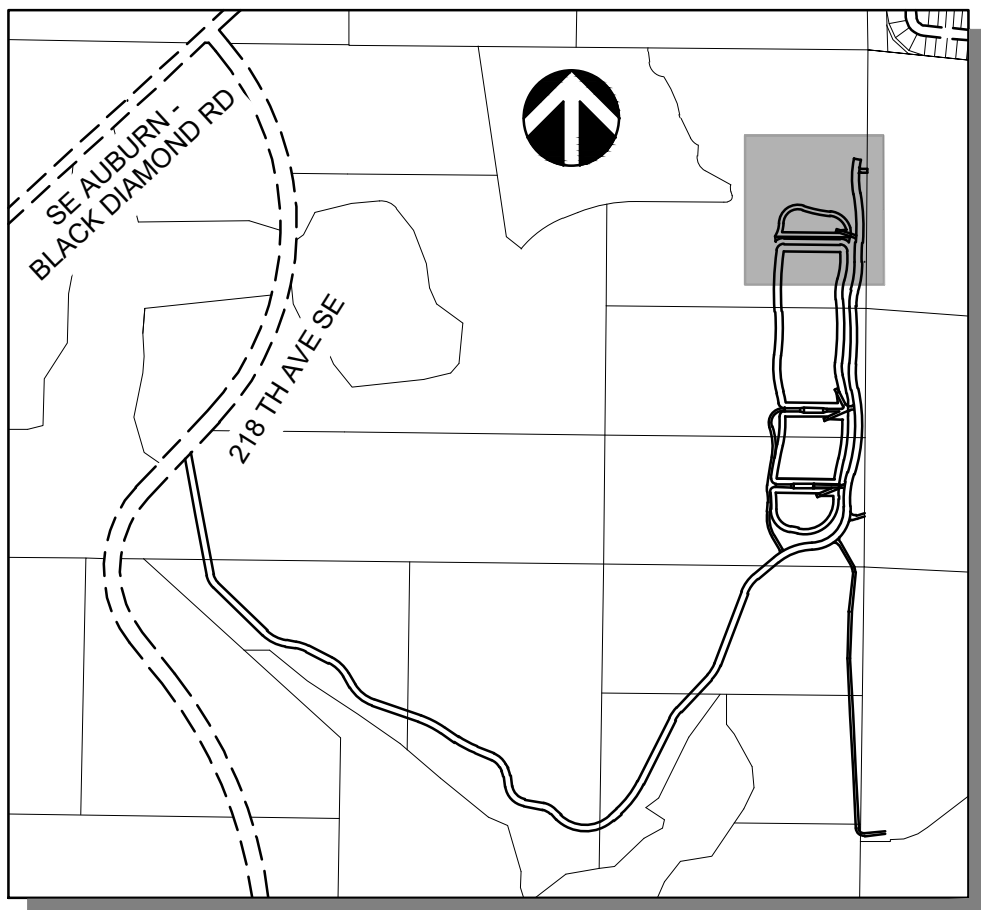
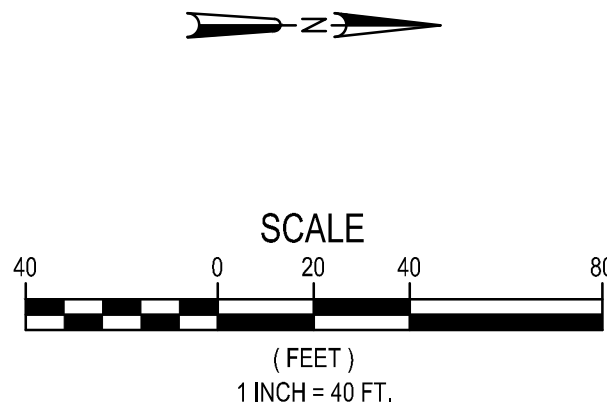


CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.

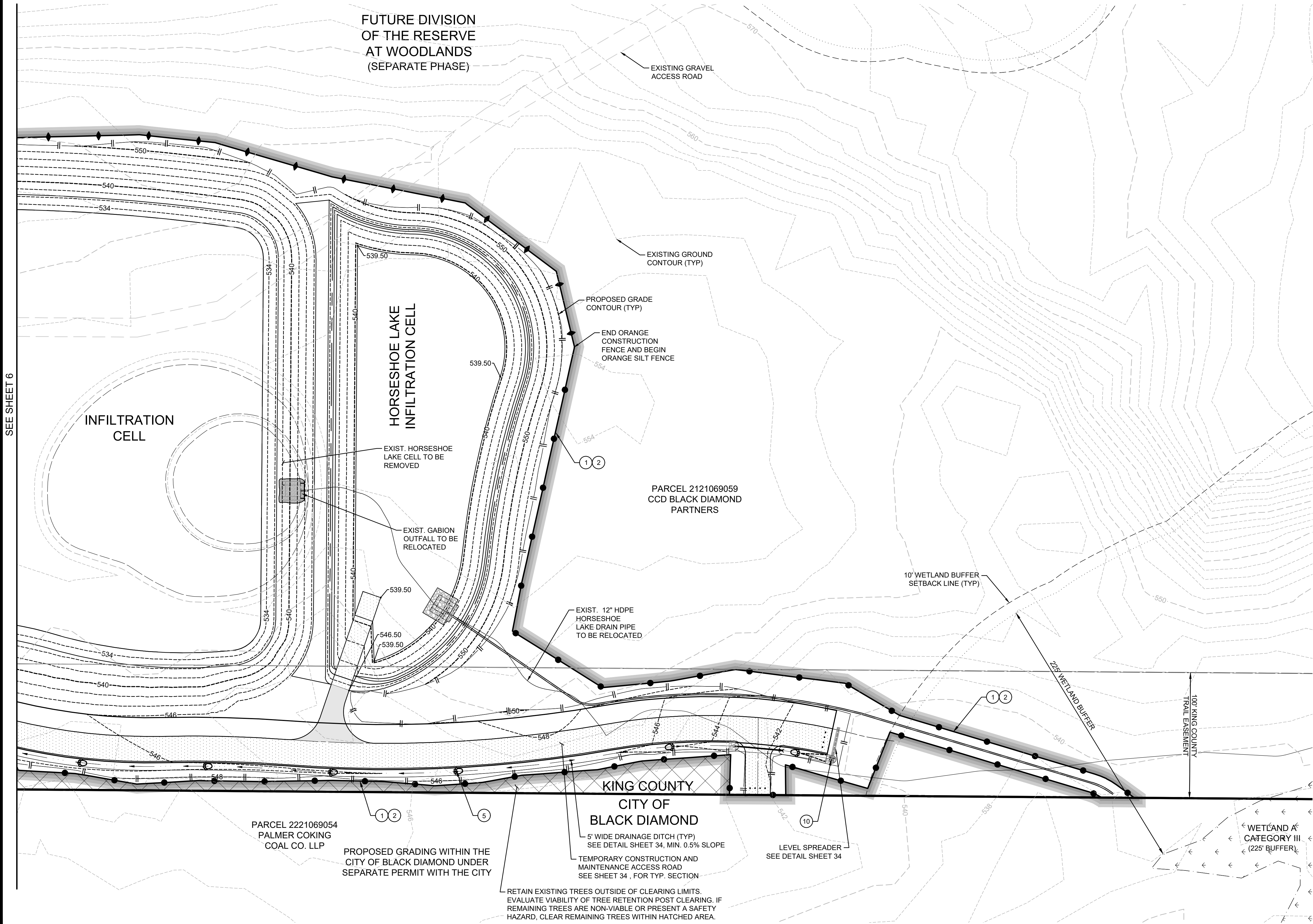


KEY MAP
NOT TO SCALE

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
TEMPORARY EROSION CONTROL PLAN

WASHINGTON

KING COUNTY



- TEMPORARY EROSION CONTROL NOTES:
- 1 CONTINUOUS CLEARING LIMIT FLAGGING.
 - 2 SILT FENCE PER DETAIL, SHEET 8.
 - 3 CONSTRUCTION FENCE PER DETAIL, SHEET 8.
 - 4 TEMPORARY 2' WIDE x 1' DEEP INTERCEPTOR SWALE PER DETAIL, SHEET 8.
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REVIEWED BY:	DATE:	BY:	OK
NO.	DATE	REVISION	



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH
FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OAKPCBDP6001
SHEET NO.



DAVID EVANS
AND ASSOCIATES INC.
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

WASHINGTON

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

TESC DETAILS

KING COUNTY

DATE: BY: CK

REVIEWED BY: NO. DATE REVISION

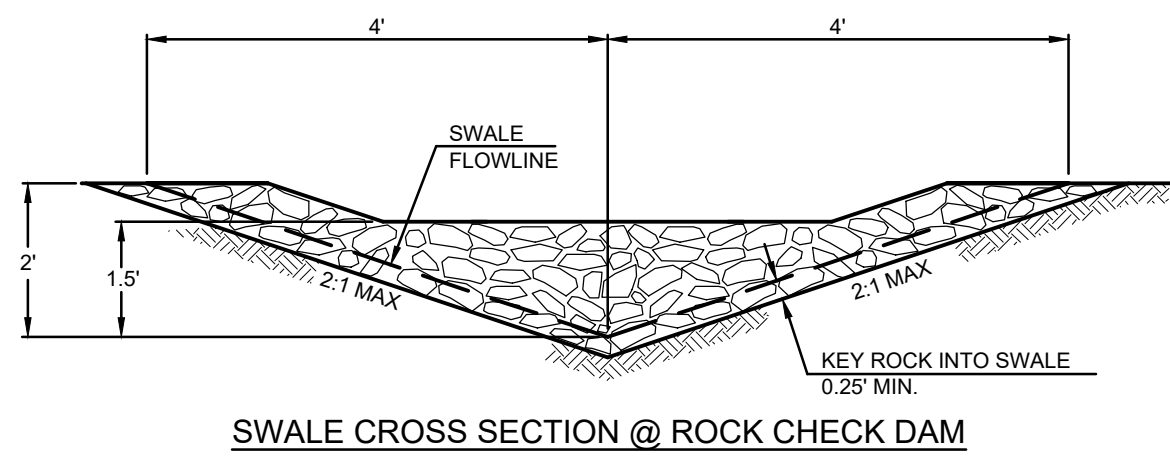


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DRAWN BY: CAH

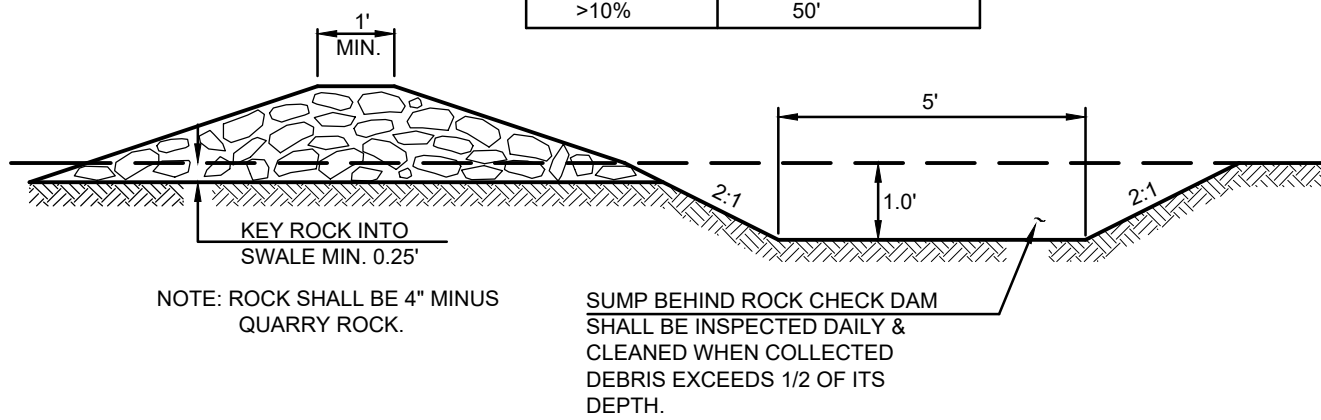
FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

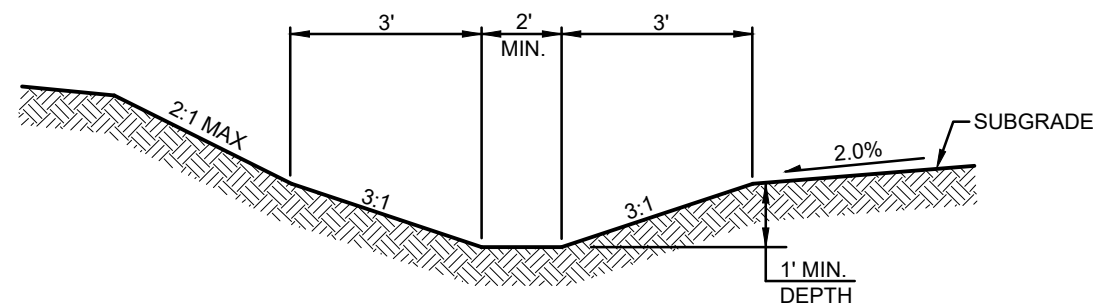
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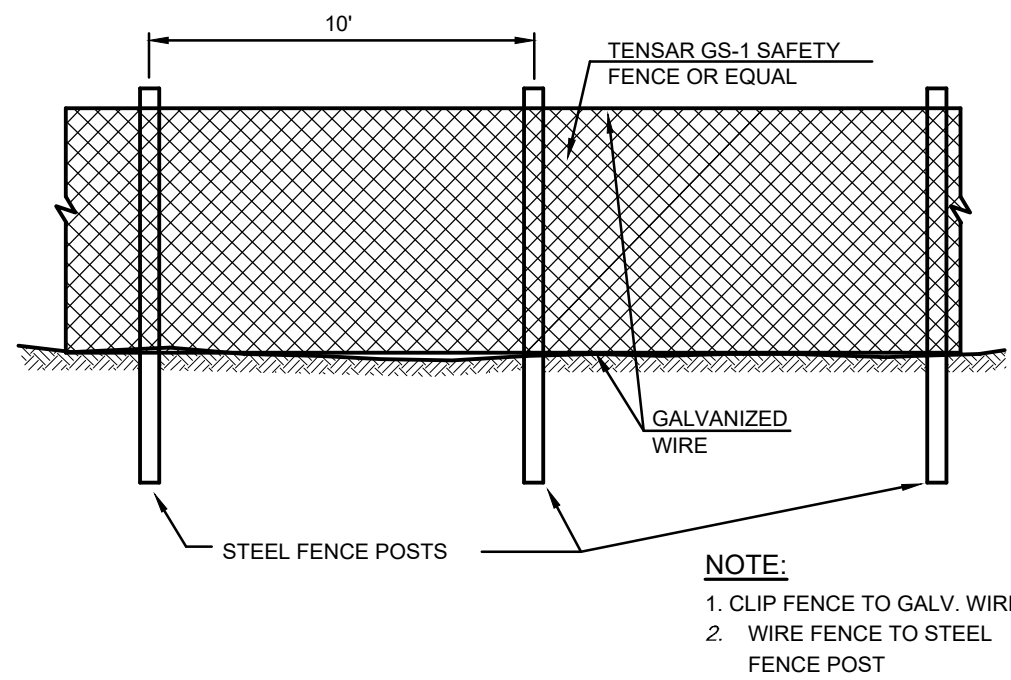
DITCH SLOPE	CHECK DAM SPACING
0 - 5%	150'
5 - 10%	100'
>10%	50'



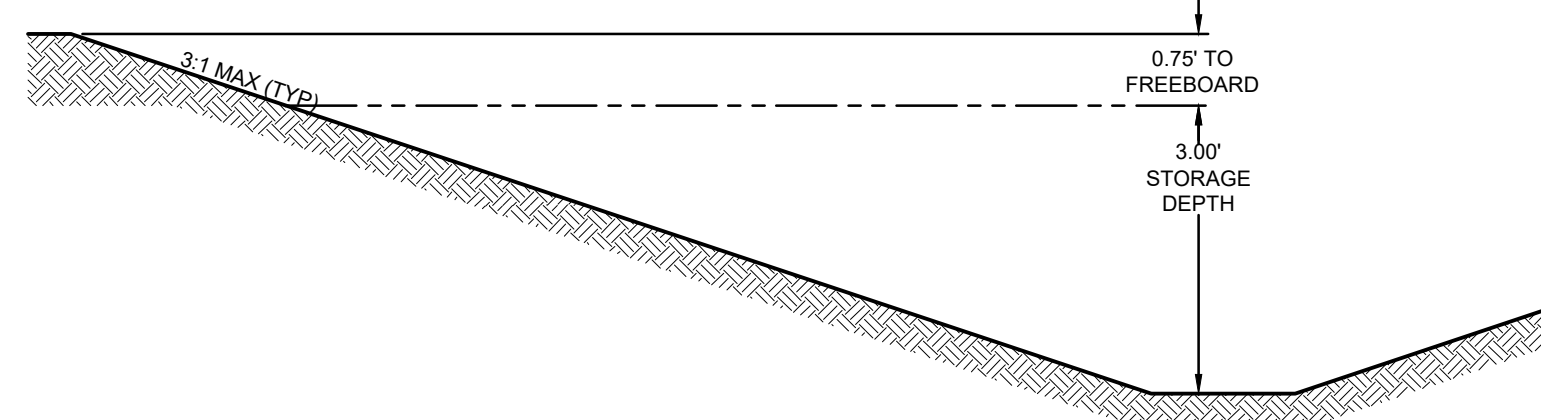
ROCK CHECK DAM CROSS SECTION
ROCK CHECK DAM DETAILS
NOT TO SCALE



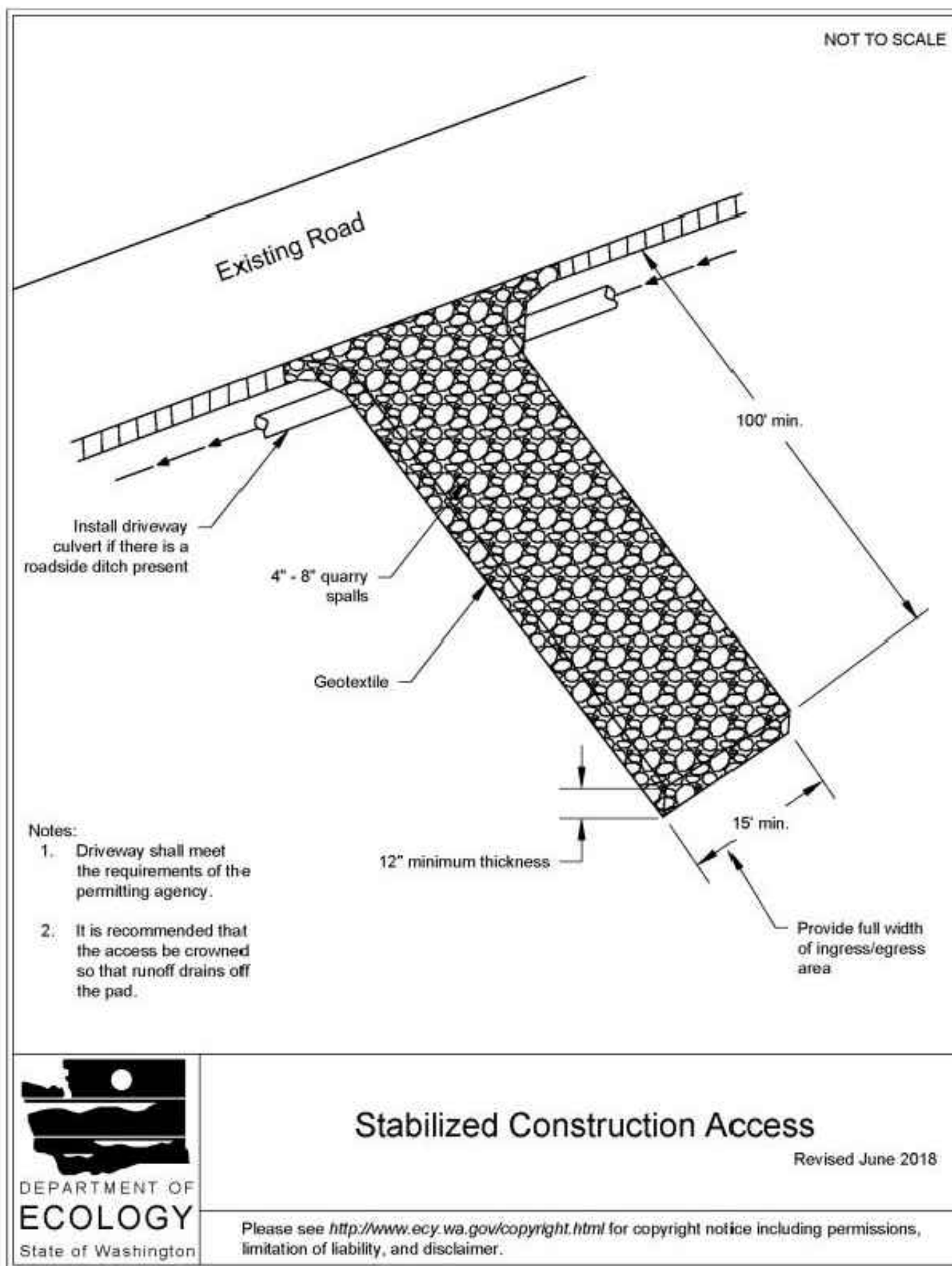
TEMPORARY INTERCEPTOR SWALE DETAIL
NOT TO SCALE



DO NOT ATTACH TO TREES OR OTHER NATIVE VEGETATION
TEMPORARY CONSTRUCTION FENCE
NOT TO SCALE
(TO BE USED ALONG N.G.P.A. BOUNDARY AS SHOWN ON PLANS)



INFILTRATING SEDIMENT TRAP DETAIL
NOT TO SCALE



Stabilized Construction Access

Revised June 2018

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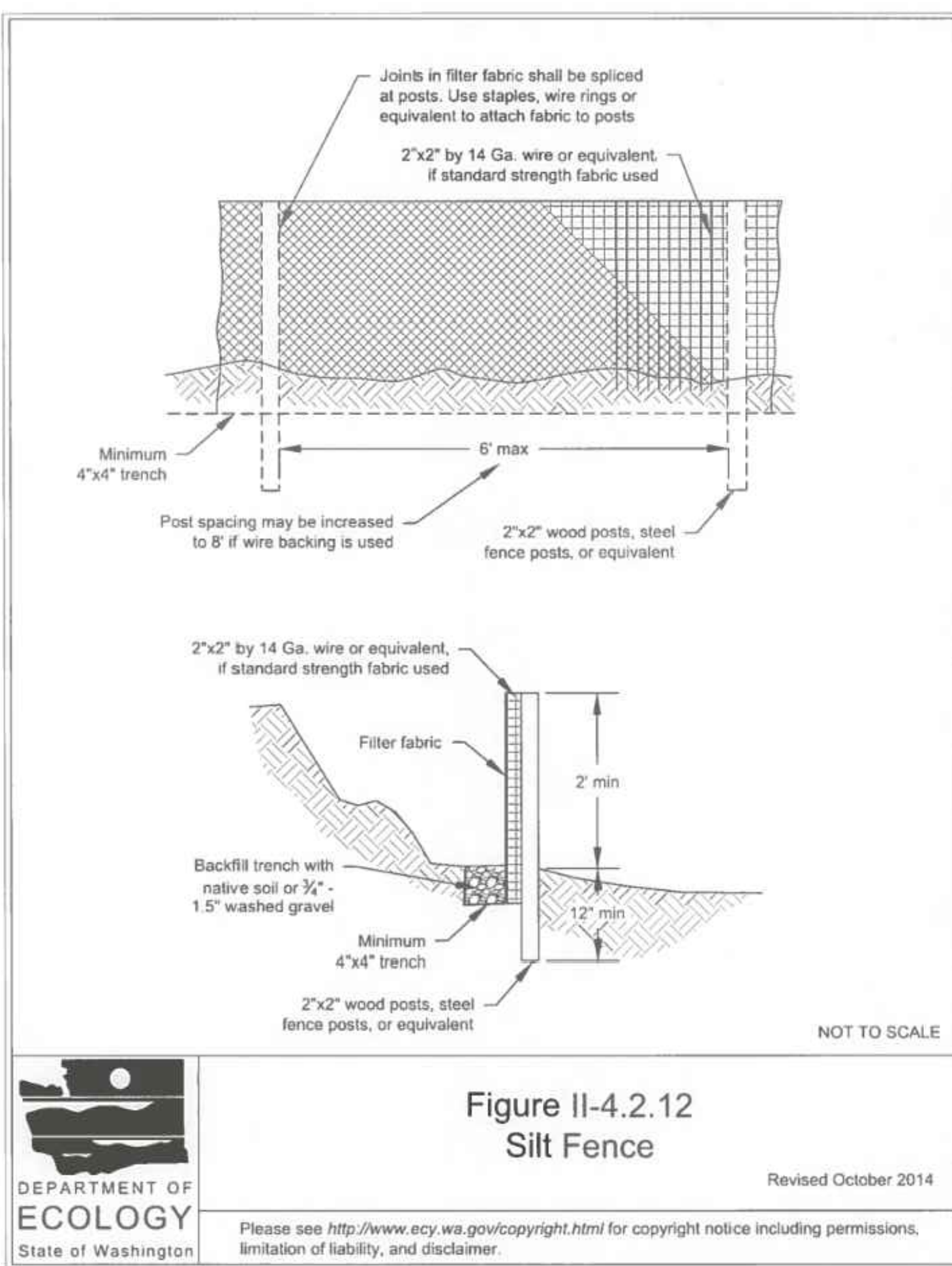
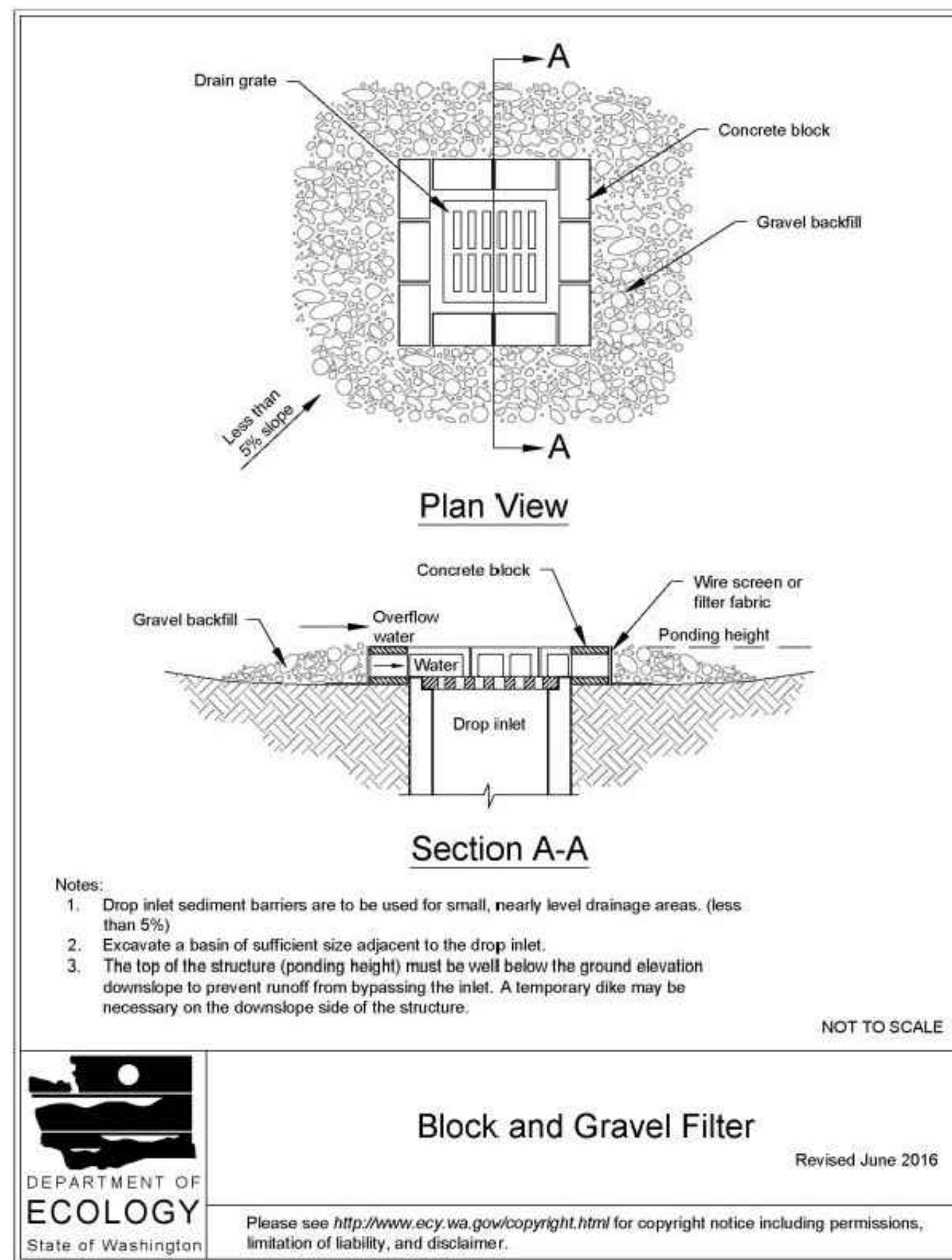


Figure II-4.2.12
Silt Fence

Revised October 2014

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* USE ORANGE FILTER FABRIC WHERE SPECIFIED ON PLANS.

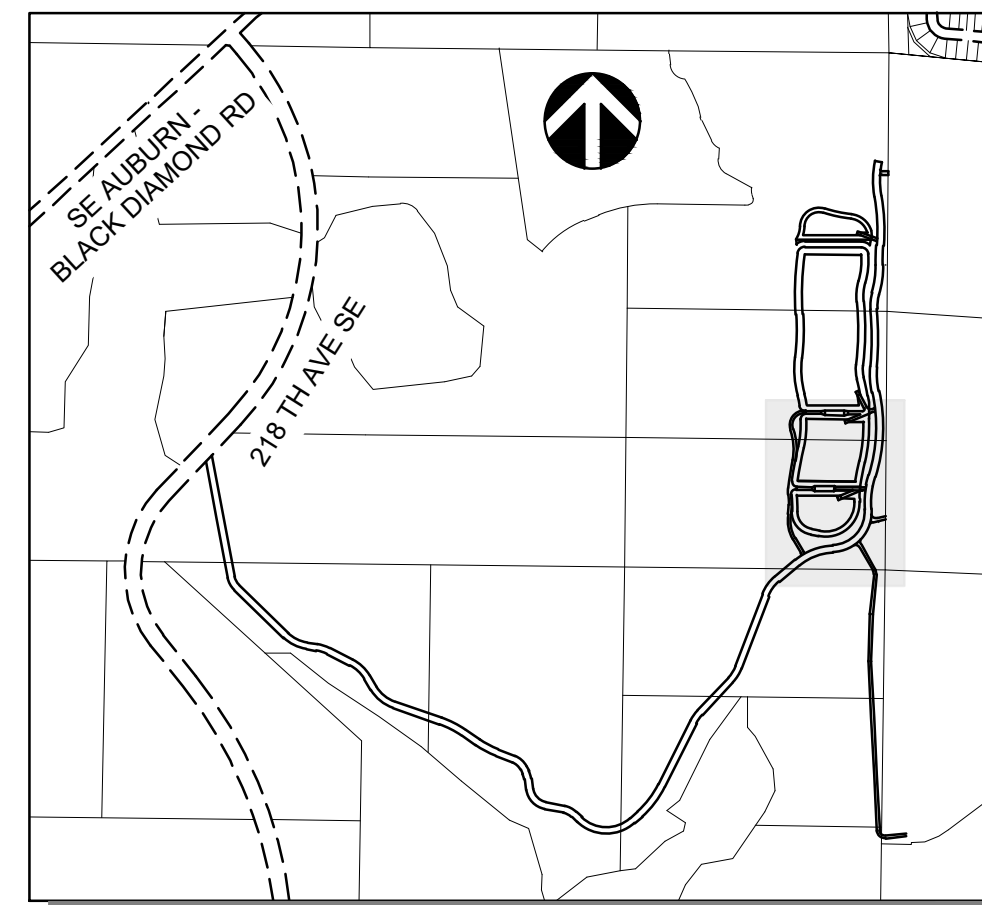
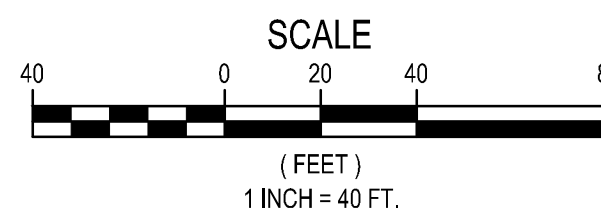
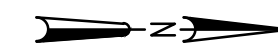


Block and Gravel Filter

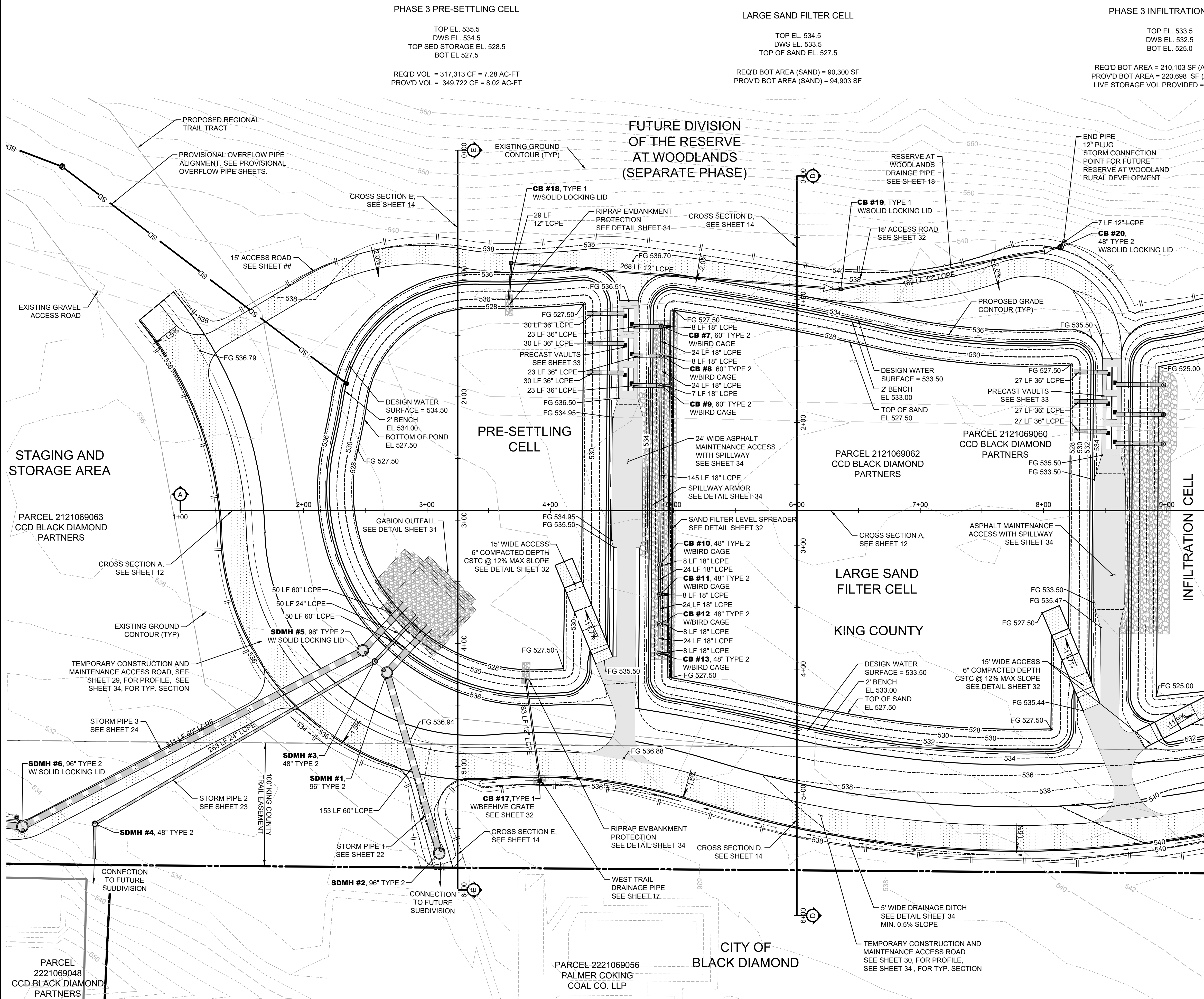
Revised June 2016

Please see <http://www.ecy.wa.gov/copyright.html> for copyright notice including permissions, limitation of liability, and disclaimer.

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KEY MAP
NOT TO SCALE



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
SDMH #1, 96" TYPE 2	RIM = 536.78 60" LCPE IE (IN-W) = 523.35 60" LCPE IE (OUT-E) = 523.35
SDMH #2, 96" TYPE 2	RIM = 536.10 60" LCPE IE (IN-NE) = 523.35 60" LCPE IE (OUT-W) = 523.35
SDMH #3, 48" TYPE 2	RIM = 536.78 24" LCPE IE (IN-SE) = 523.35 24" LCPE IE (OUT-SE) = 523.35
SDMH #4, 48" TYPE 2	RIM = 533.83 24" LCPE IE (IN-NE) = 524.99 24" LCPE IE (OUT-W) = 524.99
SDMH #5, 96" TYPE 2	RIM = 536.80 60" LCPE IE (IN-SE) = 523.35 60" LCPE IE (OUT-SE) = 523.35
SDMH #6, 96" TYPE 2	RIM = 533.27 60" LCPE IE (IN-S) = 524.86 60" LCPE IE (OUT-S) = 524.86
CB #7, 60" TYPE 2 W/BIRD CAGE	RIM = 531.94 36" LCPE IE (OUT-S) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #8, 60" TYPE 2 W/BIRD CAGE	RIM = 531.94 18" LCPE IE (IN-W) = 526.00 18" LCPE IE (OUT-S) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #9, 60" TYPE 2 W/BIRD CAGE	RIM = 531.94 18" LCPE IE (IN-W) = 526.00 36" LCPE IE (OUT-S) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #10, TYPE 2, 48" DIA. W/BIRD CAGE	RIM = 530.82 18" LCPE IE (IN-W) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00

STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CB #11, TYPE 2, 48" DIA. W/BIRD CAGE	RIM = 530.82 18" LCPE IE (IN-W) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #12, TYPE 2, 48" DIA. W/BIRD CAGE	RIM = 530.82 18" LCPE IE (IN-W) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #13, TYPE 2, 48" DIA. W/BIRD CAGE	RIM = 530.82 18" LCPE IE (IN-W) = 526.00 18" LCPE IE (OUT-E) = 526.00 18" LCPE IE (OUT-N) = 526.00
CB #14, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #15, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #16, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #17, TYPE 1 W/BEEHIVE GRATE	RIM = 535.06 12" LCPE IE (IN-W) = 532.01 12" LCPE IE (OUT-W) = 532.01
CB #18, TYPE 1 W/SOLID LOCKING LID	RIM = 536.65 12" LCPE IE (IN-E) = 532.15 12" LCPE IE (OUT-E) = 532.15
CB #19, TYPE 1 W/SOLID LOCKING LID	RIM = 536.69 12" LCPE IE (IN-N) = 533.76 12" LCPE IE (OUT-N) = 533.76
CB #20, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.53 12" LCPE IE (IN-S) = 534.85 12" LCPE IE (OUT-S) = 534.85

CAUTION
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DATE:	BY: OK
NO. DATE	REVISION
REVIEWED BY:	



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH
FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OAKPCBDP6001
SHEET NO.

LARGE SAND FILTER CELL

TOP EL. 534.5
DWS EL. 533.5
TOP OF SAND EL. 527.5

REQ'D BOT AREA (SAND) = 90,300 SF
PROV'D BOT AREA (SAND) = 94,903 SF

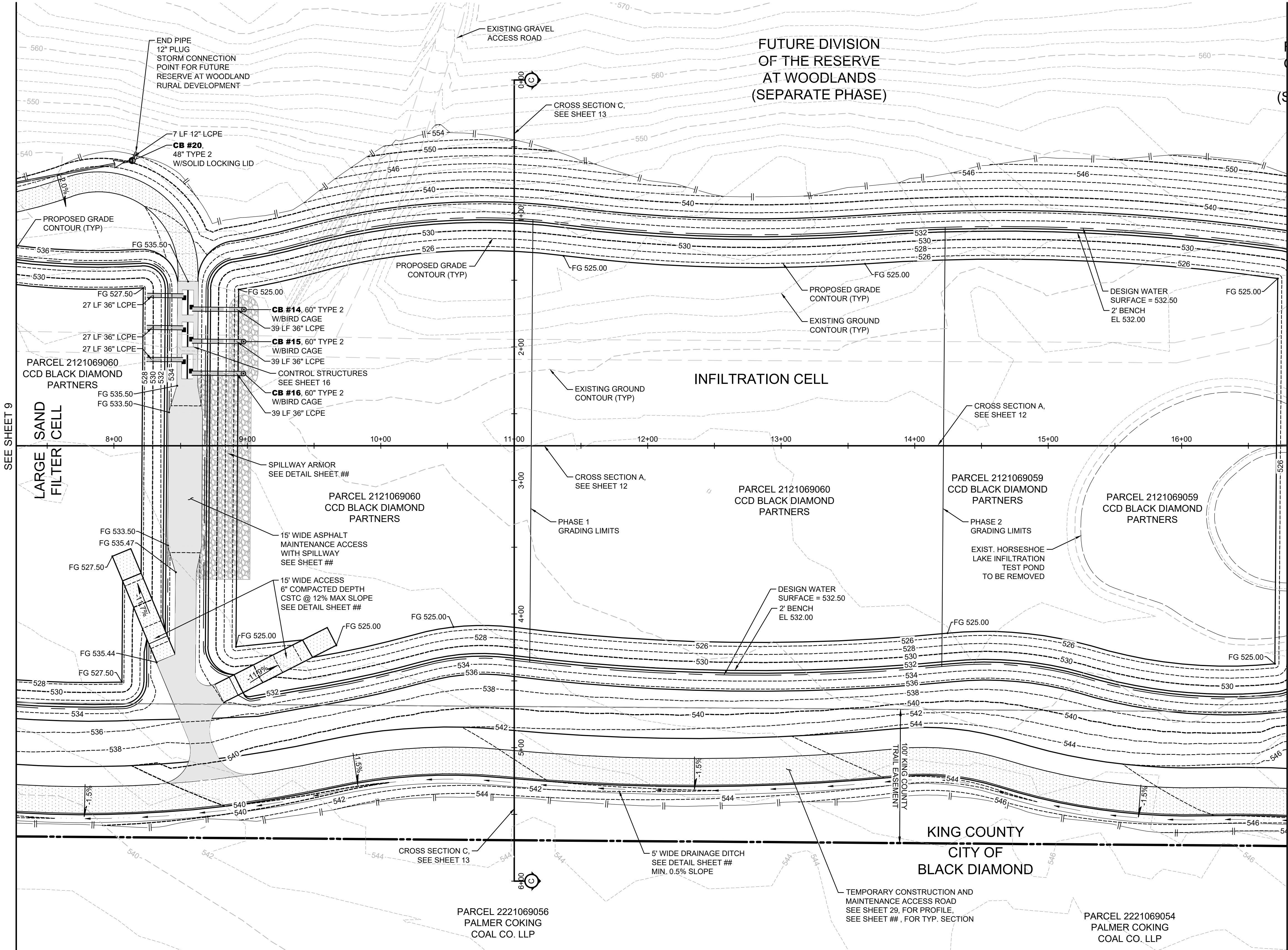
PHASE 3 INFILTRATION CELL

TOP EL. 533.5
DWS EL. 532.5
BOT EL. 525.0

REQ'D BOT AREA = 210,103 SF (ALL PHASES)
PROV'D BOT AREA = 220,698 SF (ALL PHASES)
LIVE STORAGE VOL PROVIDED = 42.71 AC-FT

FUTURE DIVISION
OF THE RESERVE
AT WOODLANDS
(SEPARATE PHASE)

INFILTRATION CELL



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CB #14, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #15, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #16, TYPE 2, 48" W/BIRD CAGE	RIM = 525.00 36" LCPE IE (IN-S) = 520.00 36" LCPE IE (OUT-S) = 520.00
CB #20, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.53 12" LCPE IE (IN-S) = 534.85 12" LCPE IE (OUT-S) = 534.85

CAUTION
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DAVID EVANS AND ASSOCIATES INC.
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

WASHINGTON

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

GRADING PLAN

KING COUNTY

DATE: BY: OK

REVIEWED BY: NO. DATE REVISION



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OKAPCBDP6001

SHEET NO.

PHASE 3 INFILTRATION CELL

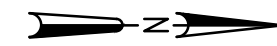
TOP EL. 533.5
DWS EL. 532.5
BOT EL. 525.0

REQ'D BOT AREA = 210,103 SF (ALL PHASES)
PROV'D BOT AREA = 220,698 SF (ALL PHASES)
LIVE STORAGE VOL PROVIDED = 42.71 AC-FT

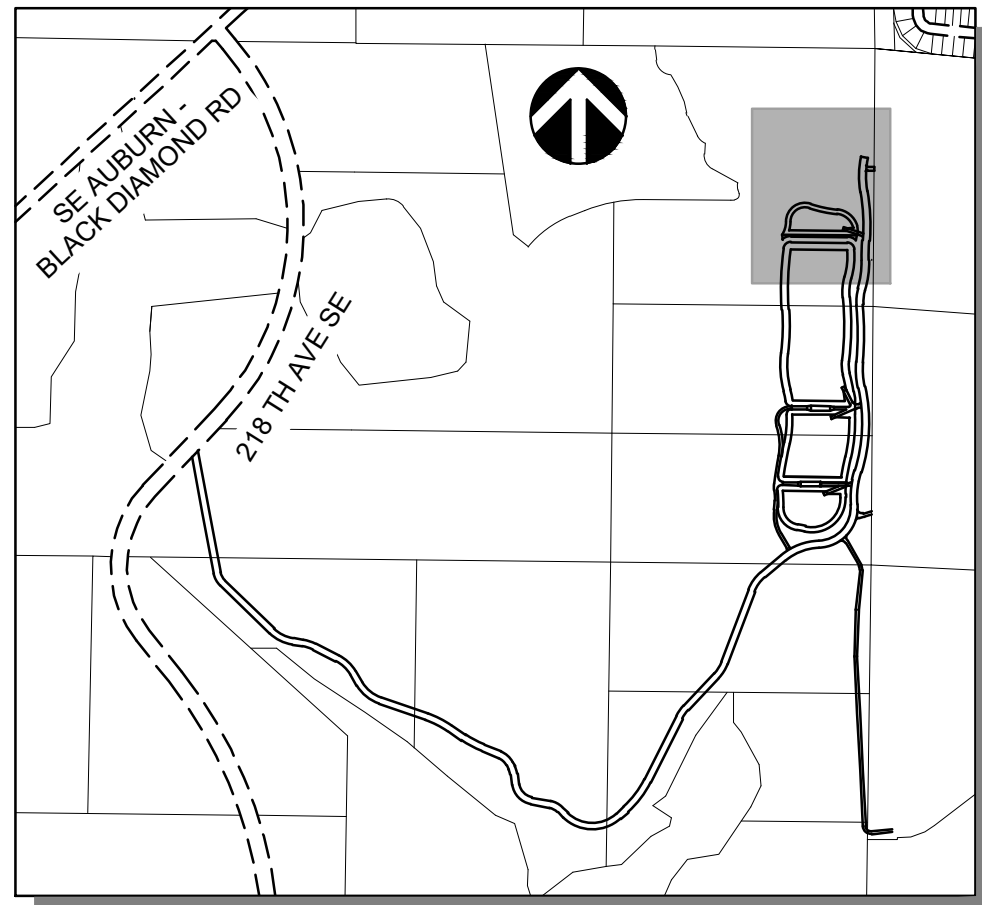
HORSESHOE LAKE
INFILTRATION CELL
(SIZED FOR 6 CFS)

TOP EL. 546.5
DWS EL. 545.5
BOT EL. 539.5

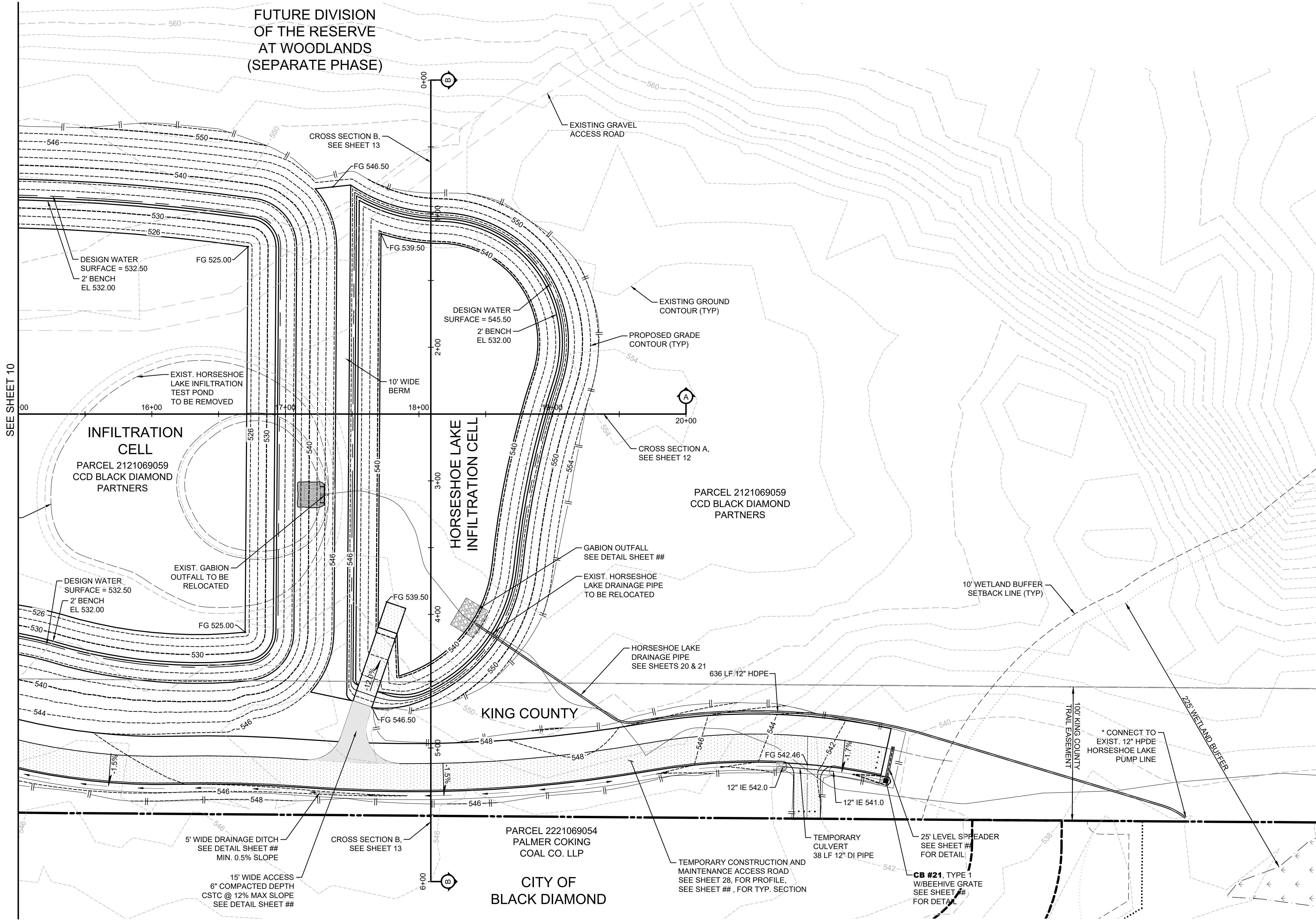
REQ'D BOT AREA = 25,440 SF
PROV'D BOT AREA = 29,219 SF
LIVE STORAGE VOL PROVIDED = 5.24 AC-FT



SCALE
(FEET)
1 INCH = 40 FT.



KEY MAP
NOT TO SCALE



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CB #21, TYPE 1 W/BEEHIVE GRATE	RIM = 538.95 6" PERF. PVC IE (OUT-W) = 536.45

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AND ASSOCIATES INC.**
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

POND CROSS SECTIONS

WASHINGTON

KING COUNTY

DATE: BY: OK

REVIEWED BY: NO. DATE REVISION



11/14/2024

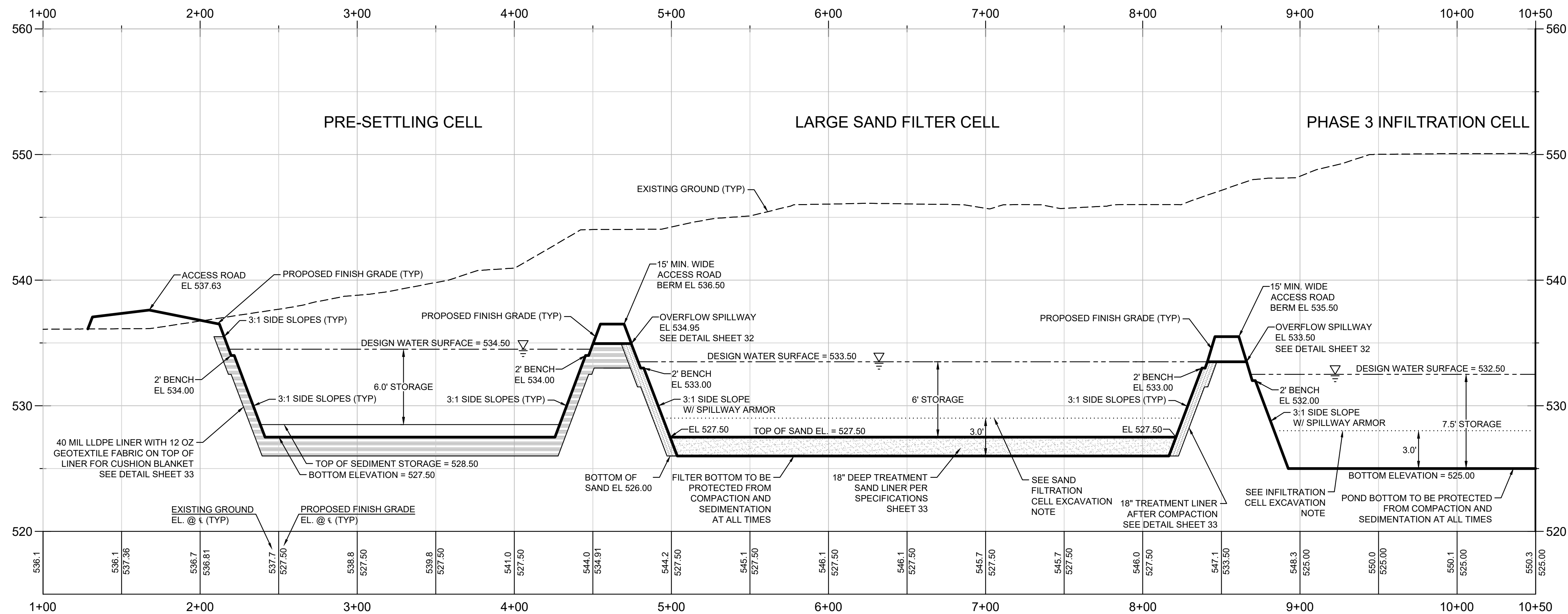
CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

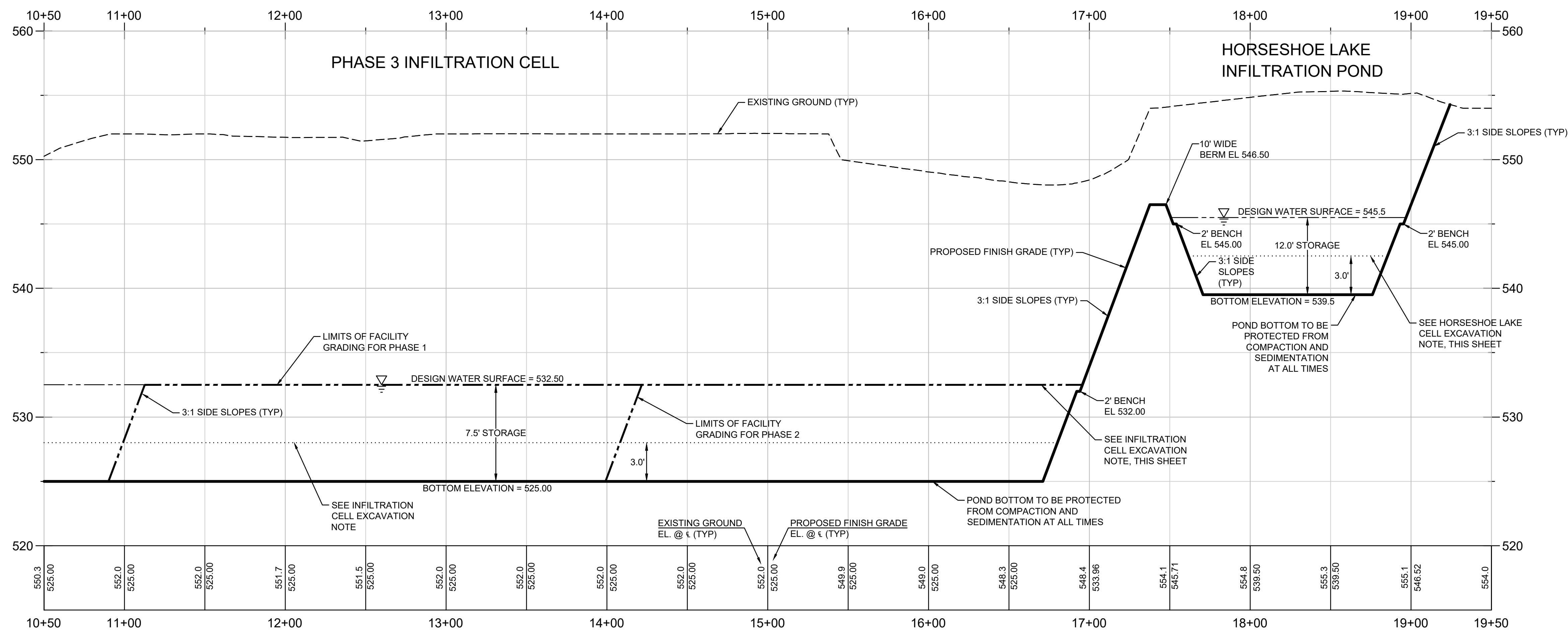
PROJECT NO.
OAKPCBDP6001

SHEET NO.

12 of 41



SECTION A-A
SCALE: 1"=40' HORIZ.
1"=5' VERT



SECTION A-A
SCALE: 1"=40' HORIZ.
1"=5' VERT

SEE BELOW - LEFT

SEE ABOVE - RIGHT

SAND FILTRATION CELL EXCAVATION NOTE:
CONTRACTOR TO EXCAVATE DOWN TO ELEVATION 526.00 INITIALLY. HEAVY EQUIPMENT IS NOT ALLOWED TO OPERATE WITHIN 3-FT OF FILTER BOTTOM. THE BOTTOM 3-FT WILL BE REQUIRED TO BE EXCAVATED BACK ACROSS POND OR OTHER APPROVED METHOD UTILIZING TRACKED EQUIPMENT TO AVOID COMPACTION OF FILTER BOTTOM.

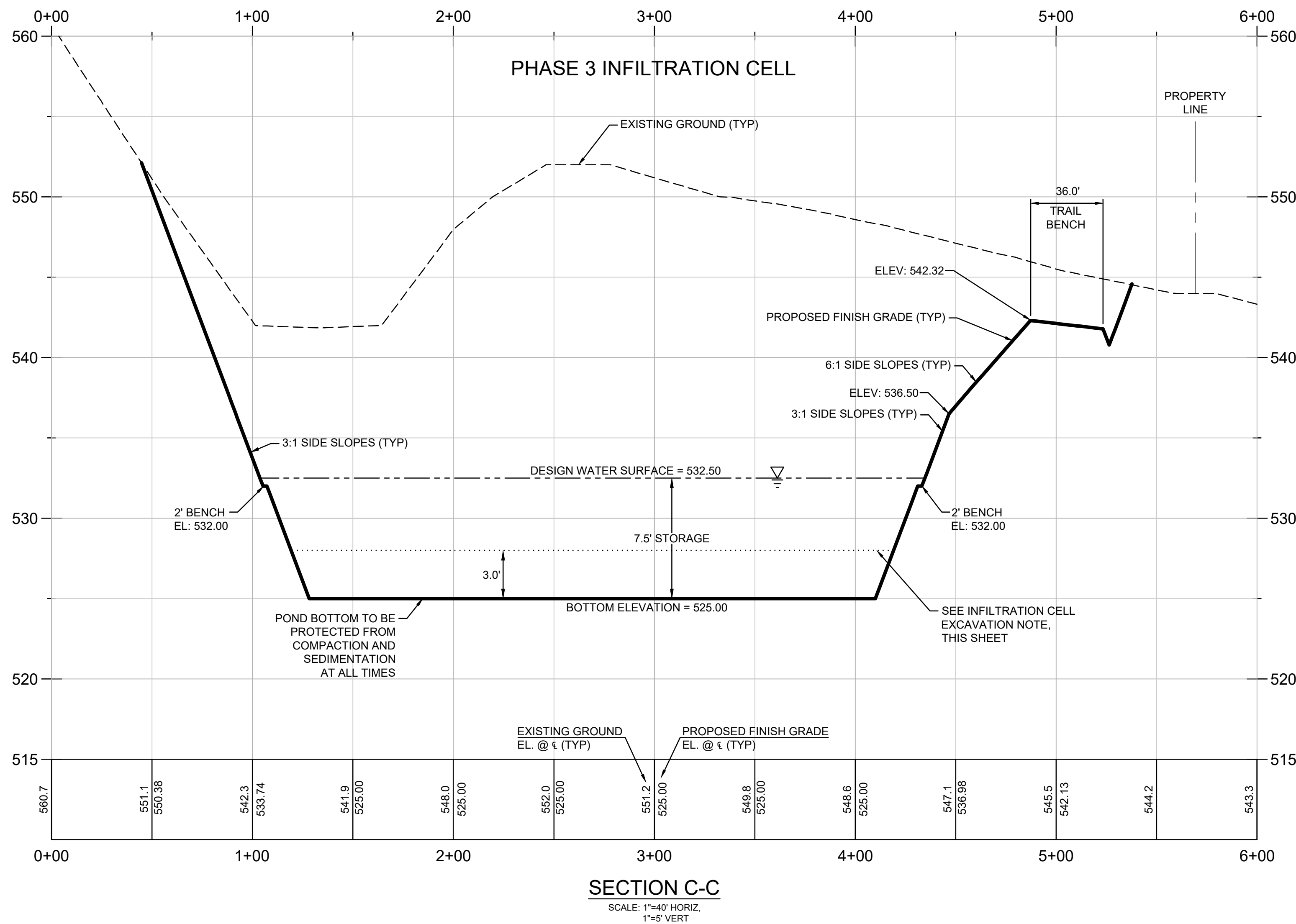
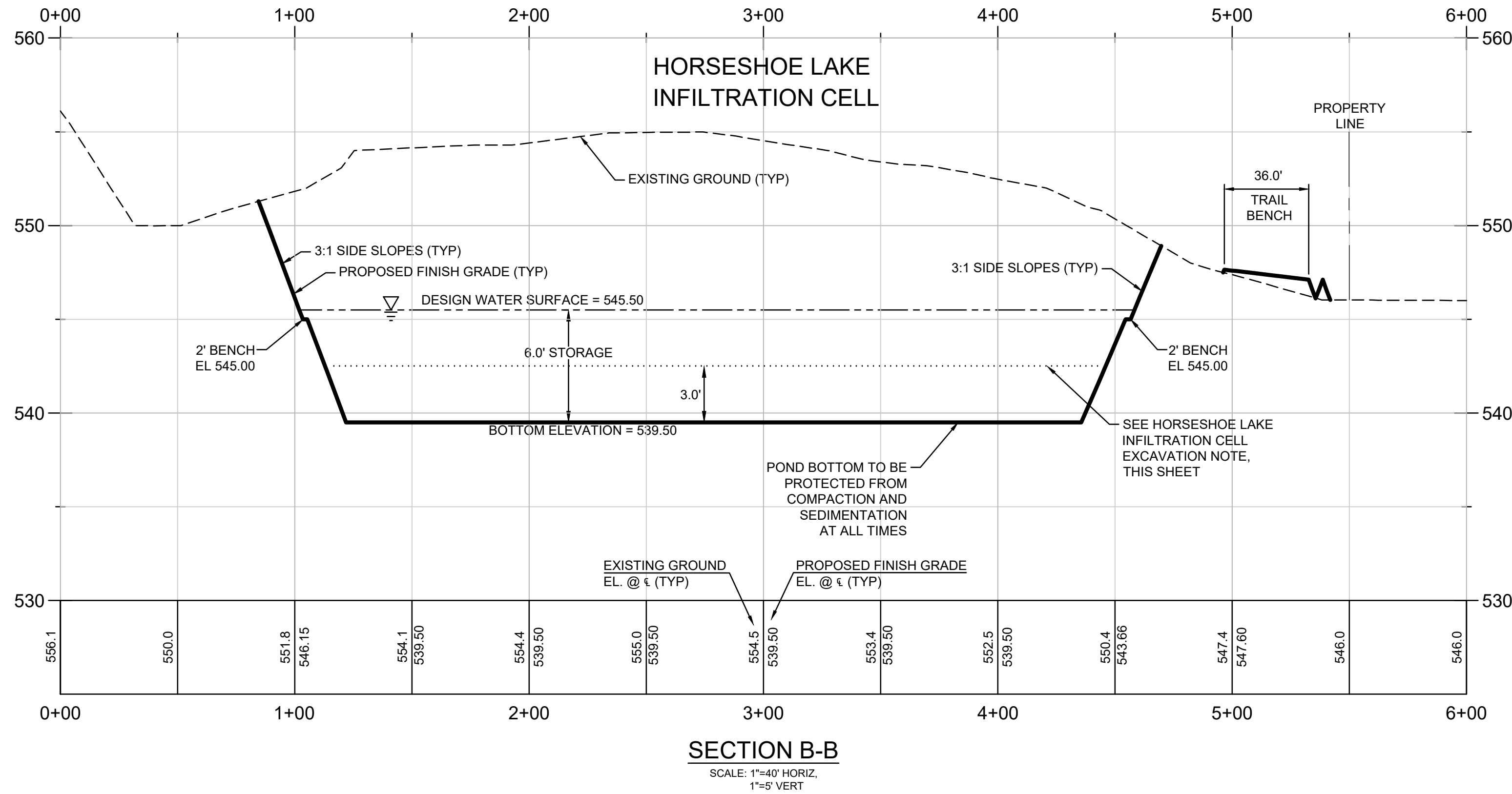
INFILTRATION CELL EXCAVATION NOTE:
CONTRACTOR TO EXCAVATE DOWN TO ELEVATION 528.0 INITIALLY. HEAVY EQUIPMENT IS NOT ALLOWED TO OPERATE WITHIN 3-FT OF FILTER BOTTOM. THE BOTTOM 3-FT WILL BE REQUIRED TO BE EXCAVATED BACK ACROSS POND OR OTHER APPROVED METHOD UTILIZING TRACKED EQUIPMENT TO AVOID COMPACTION OF FILTER BOTTOM.

HORSESHOE LAKE INFILTRATION CELL EXCAVATION NOTE:
CONTRACTOR TO EXCAVATE DOWN TO ELEVATION 542.5 INITIALLY. HEAVY EQUIPMENT IS NOT ALLOWED TO OPERATE WITHIN 3-FT OF FILTER BOTTOM. THE BOTTOM 3-FT WILL BE REQUIRED TO BE EXCAVATED BACK ACROSS POND OR OTHER APPROVED METHOD UTILIZING TRACKED EQUIPMENT TO AVOID COMPACTION OF FILTER BOTTOM.

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By: Doug Meniam
Save Date: 6/25/2024 11:01 AM
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NW 1/4 SEC 21, TWN 21 N, RGE 6 E, W.M.

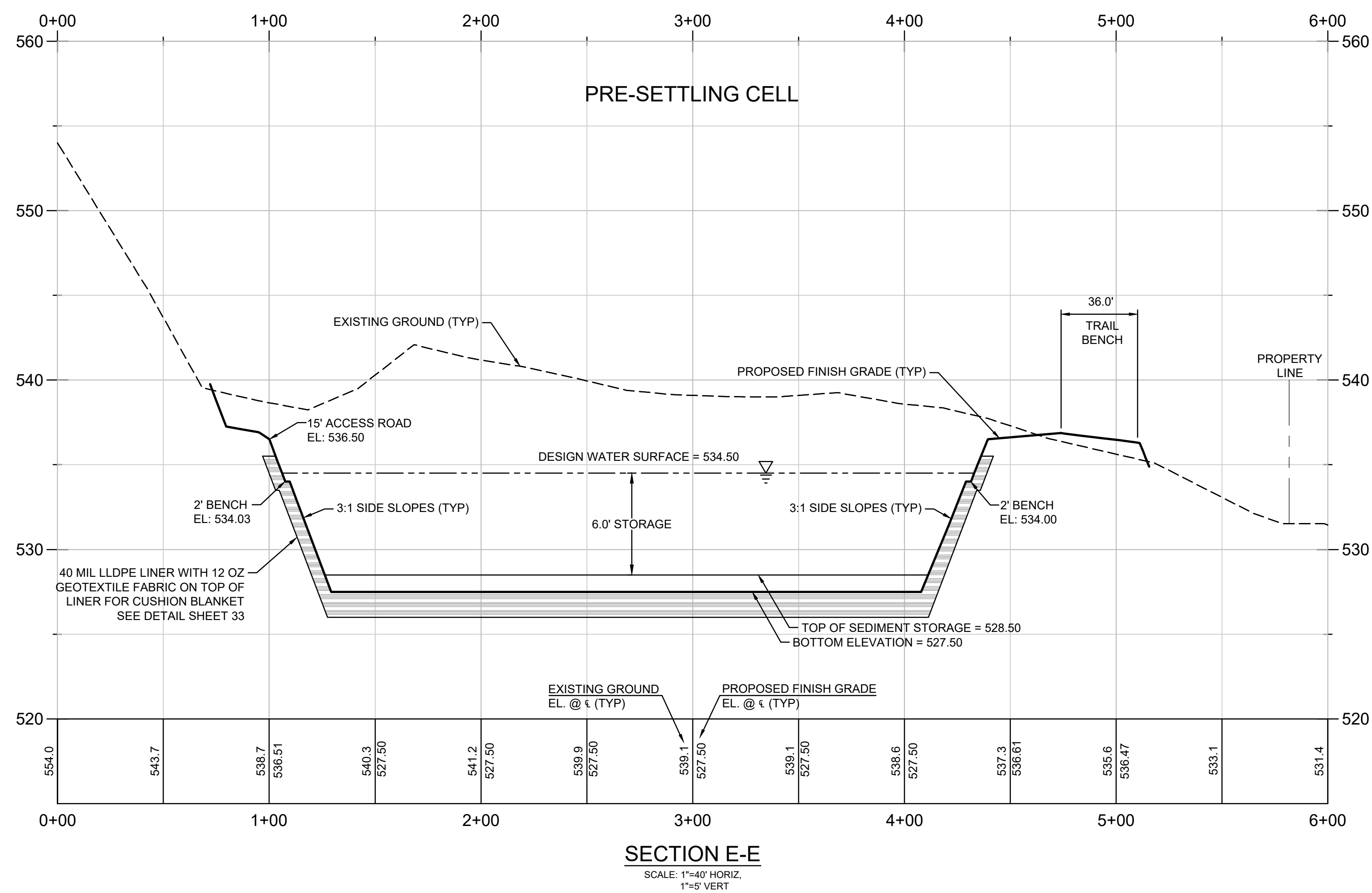
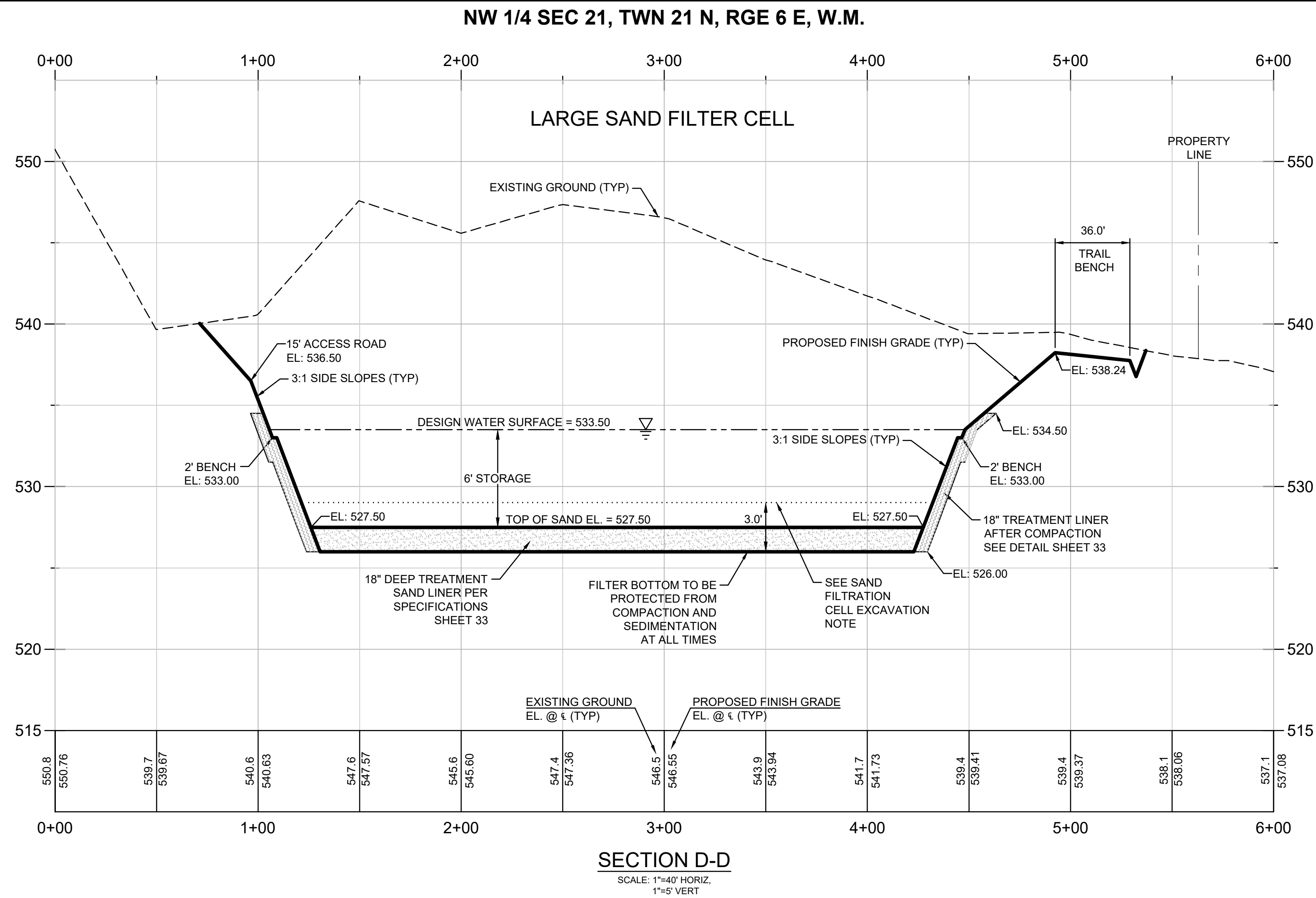


INFILTRATION CELL EXCAVATION NOTE:
CONTRACTOR TO EXCAVATE DOWN TO ELEVATION 528.0 INITIALLY. HEAVY EQUIPMENT IS NOT ALLOWED TO OPERATE WITHIN 3-FT OF FILTER BOTTOM. THE BOTTOM 3-FT WILL BE REQUIRED TO BE EXCAVATED BACK ACROSS POND OR OTHER APPROVED METHOD UTILIZING TRACKED EQUIPMENT TO AVOID COMPACTION OF FILTER BOTTOM.

HORSESHOE LAKE INFILTRATION CELL EXCAVATION NOTE:
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Save Date: 6/25/2024 11:01 AM
By: Doug Merriam
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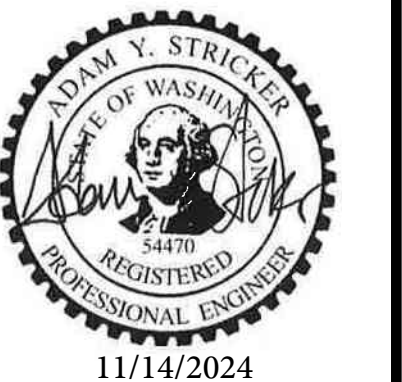


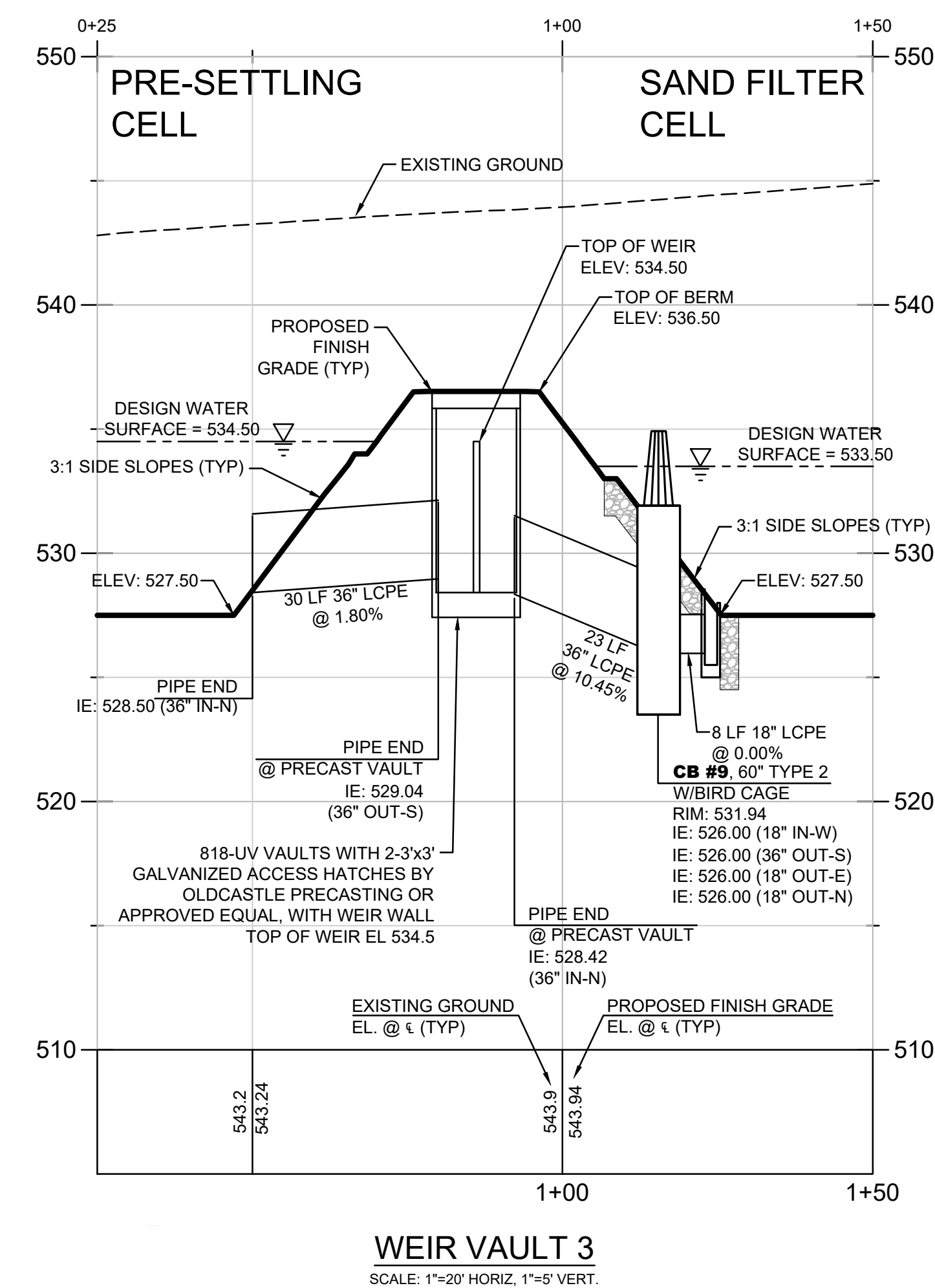
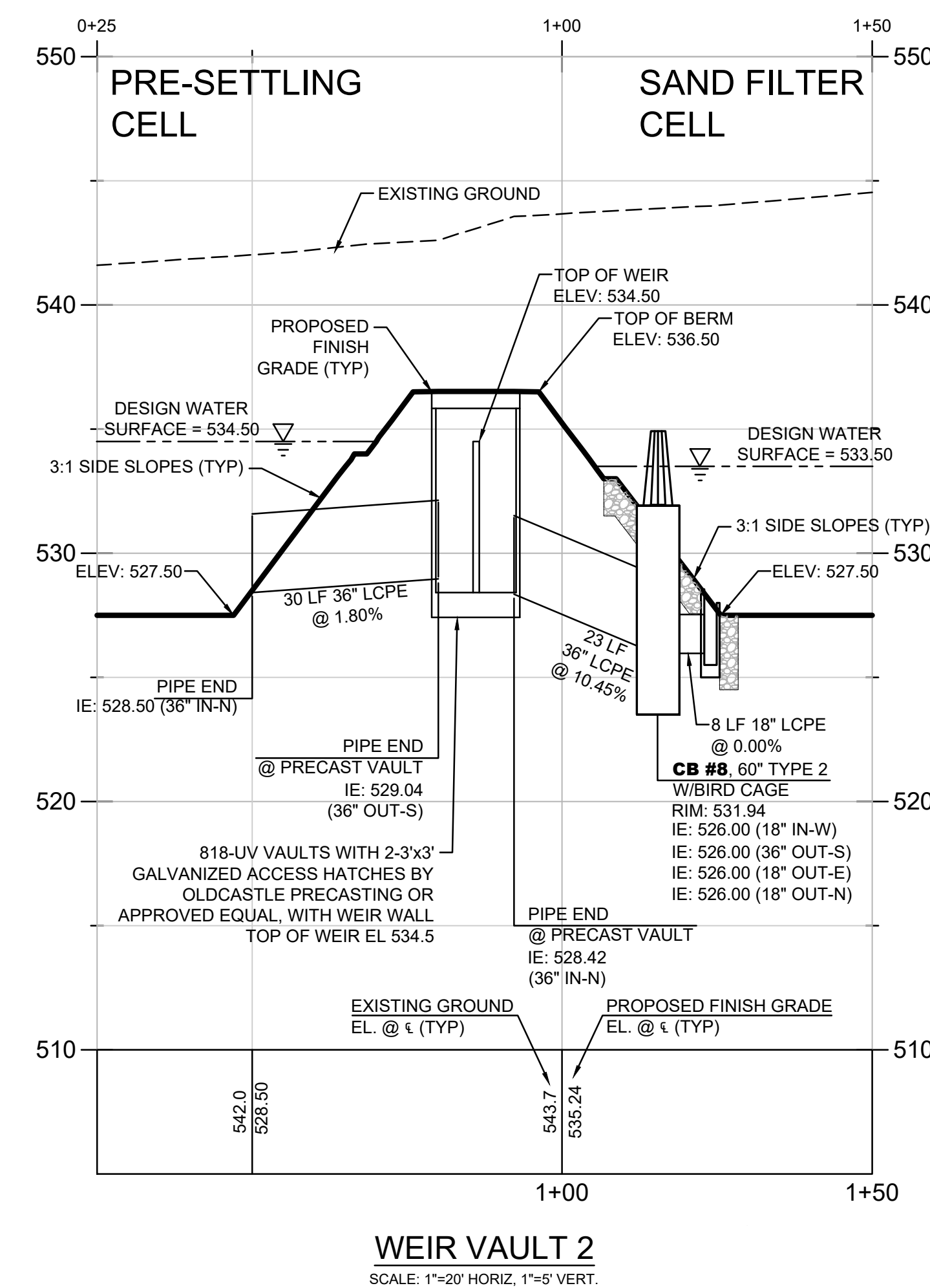
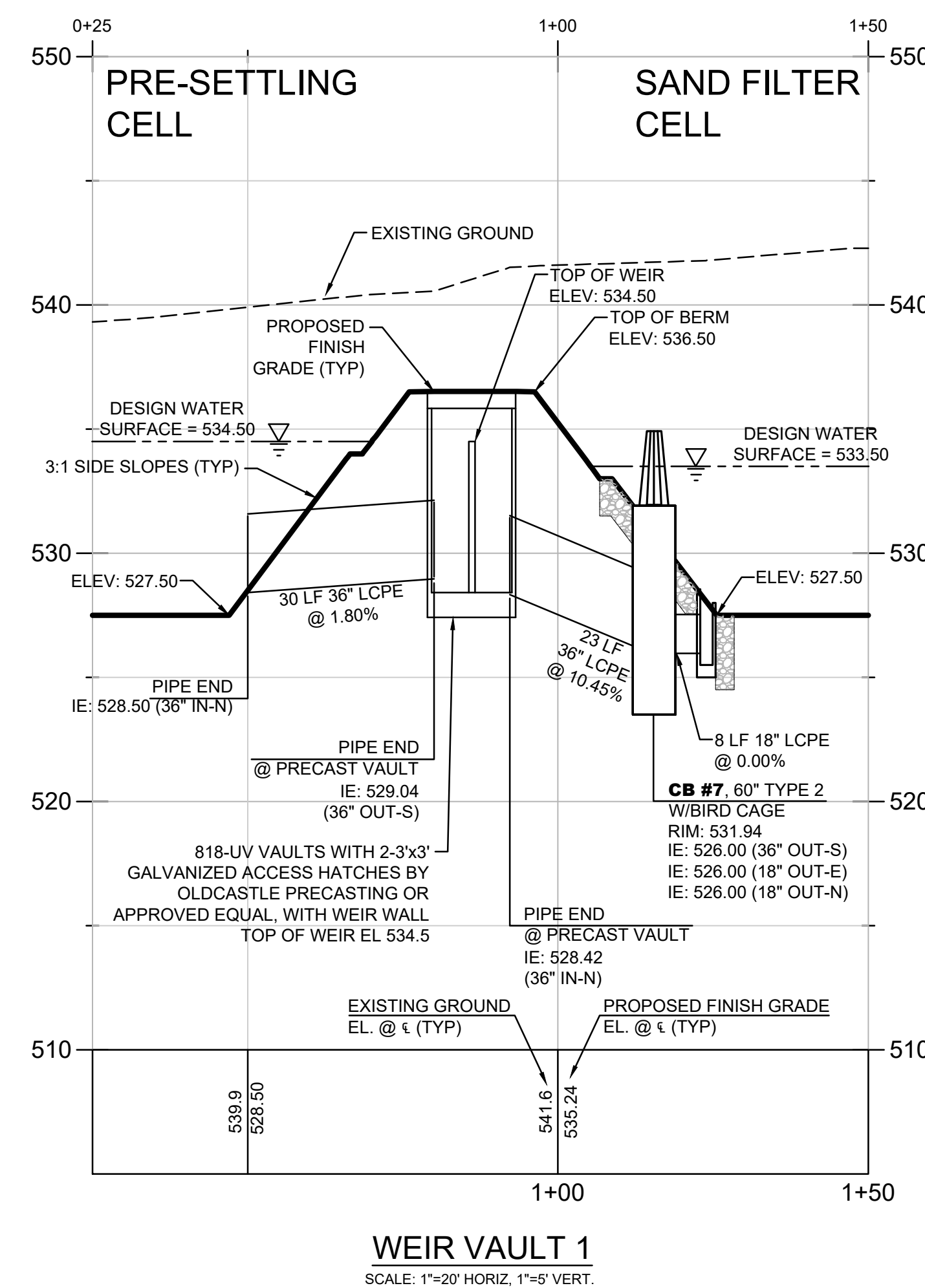
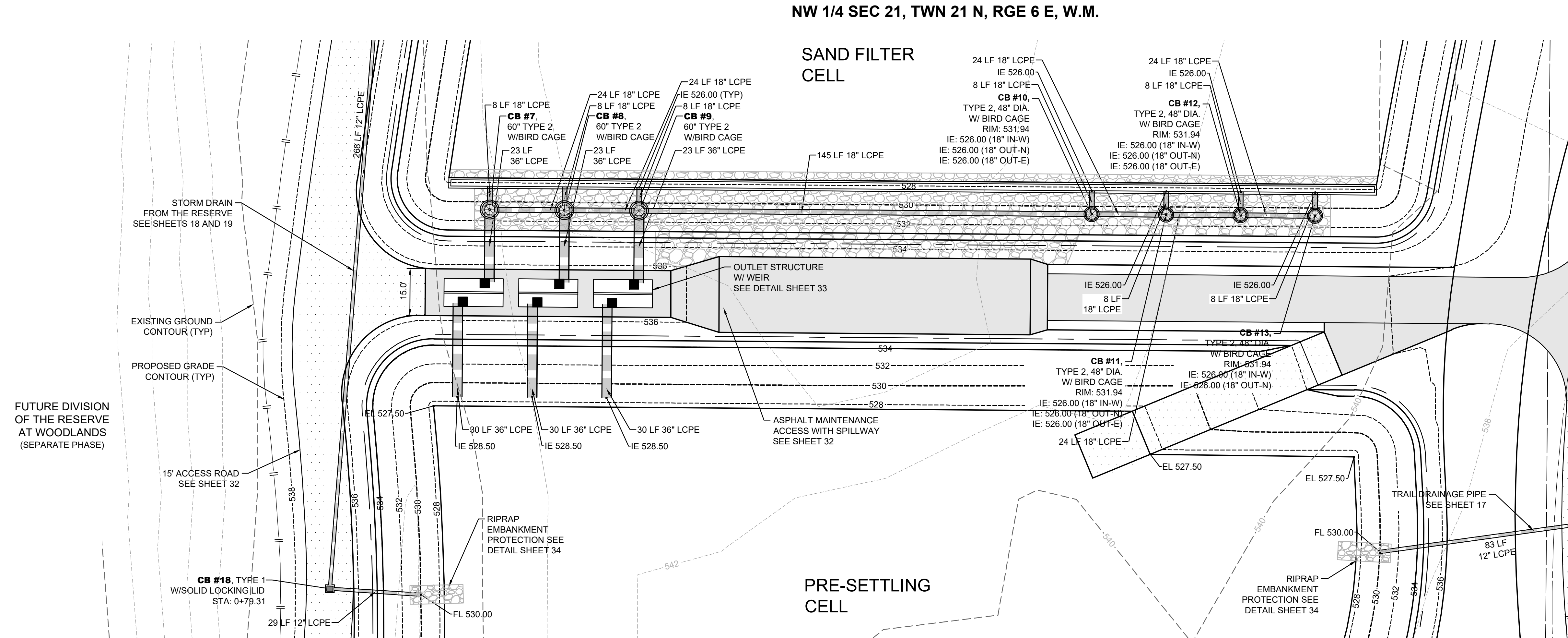
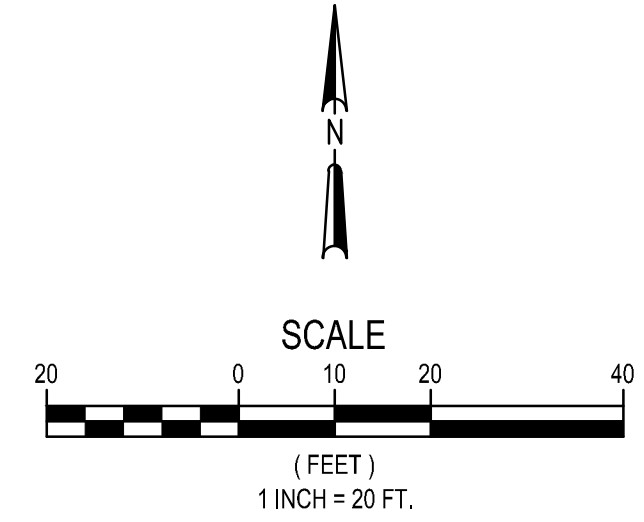
SAND FILTRATION CELL EXCAVATION NOTE:
CONTRACTOR TO EXCAVATE DOWN TO ELEVATION 526.00 INITIALLY. HEAVY EQUIPMENT IS NOT ALLOWED TO OPERATE WITHIN 3-FT OF FILTER BOTTOM. THE BOTTOM 3-FT WILL BE REQUIRED TO BE EXCAVATED BACK ACROSS POND OR OTHER APPROVED METHOD UTILIZING TRACKED EQUIPMENT TO AVOID COMPACTION OF FILTER BOTTOM.

CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN TWO FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. EXISTING UTILITIES TO BE LOCATED, PROTECTED, AND REPAIRED IN ACCORDANCE WITH RCW 19.122.



DATE:	BY: CK
REVIEWED BY:	
NO. DATE REVISION	



[illegible]

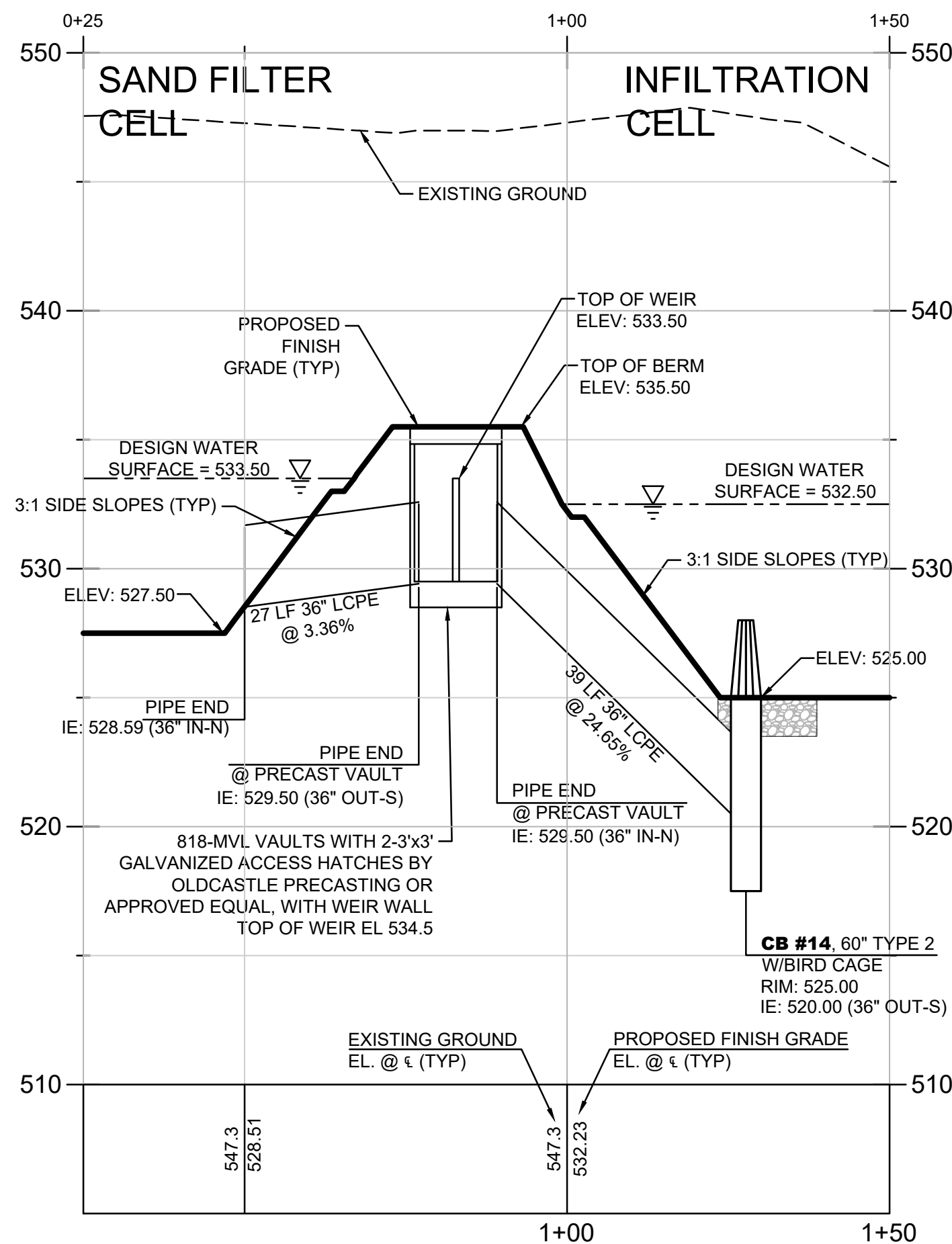
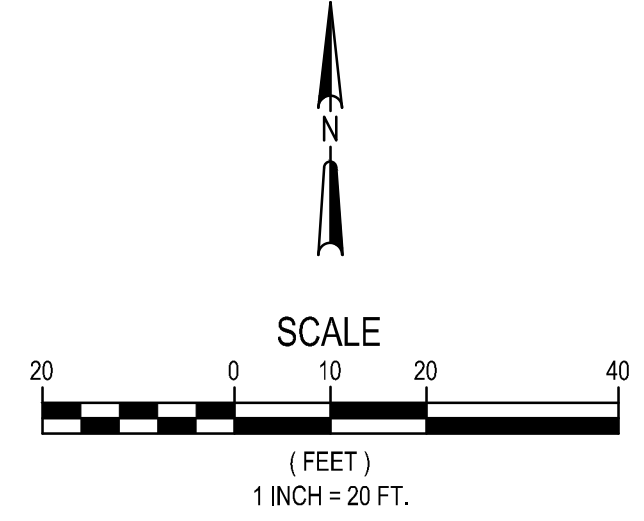
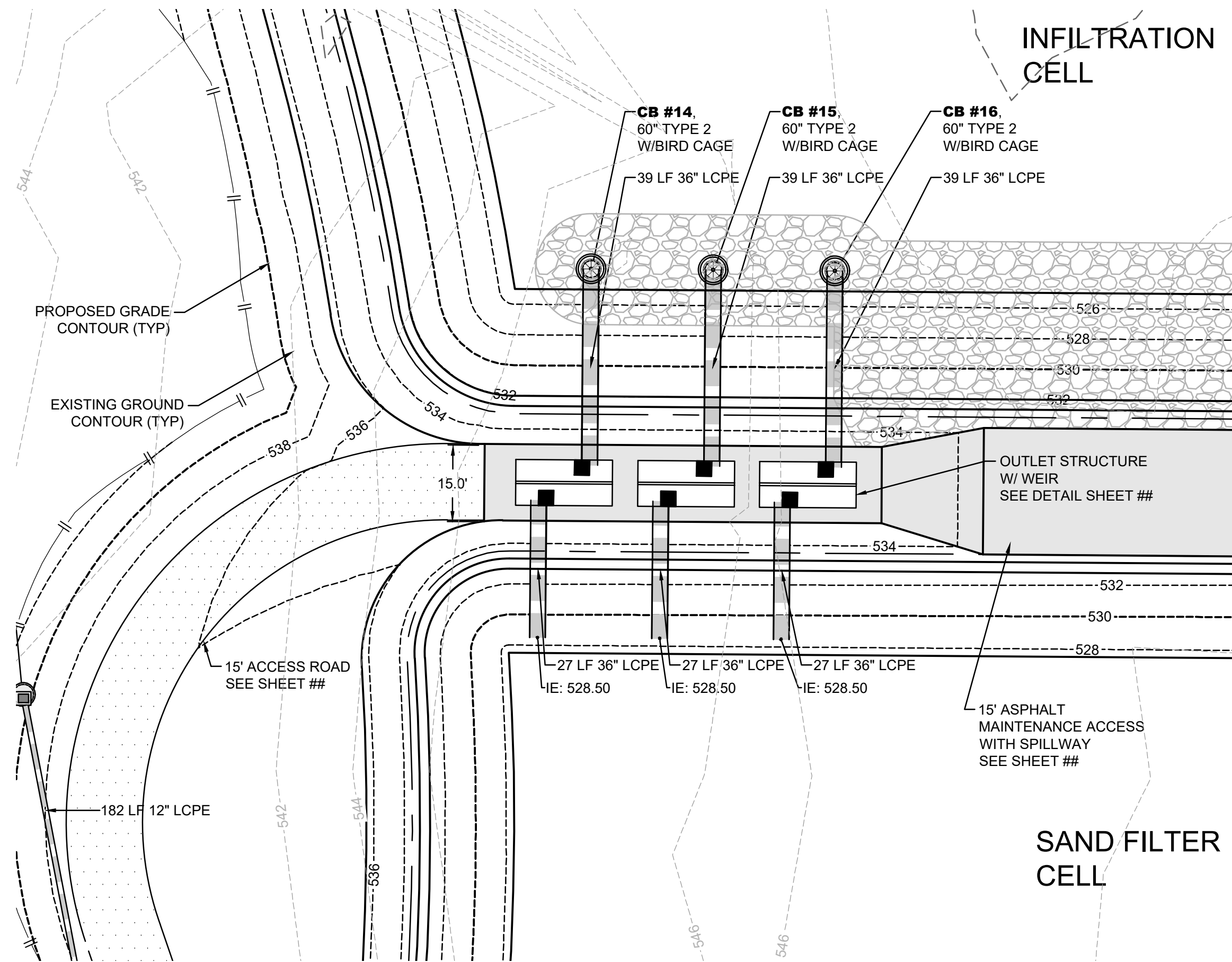
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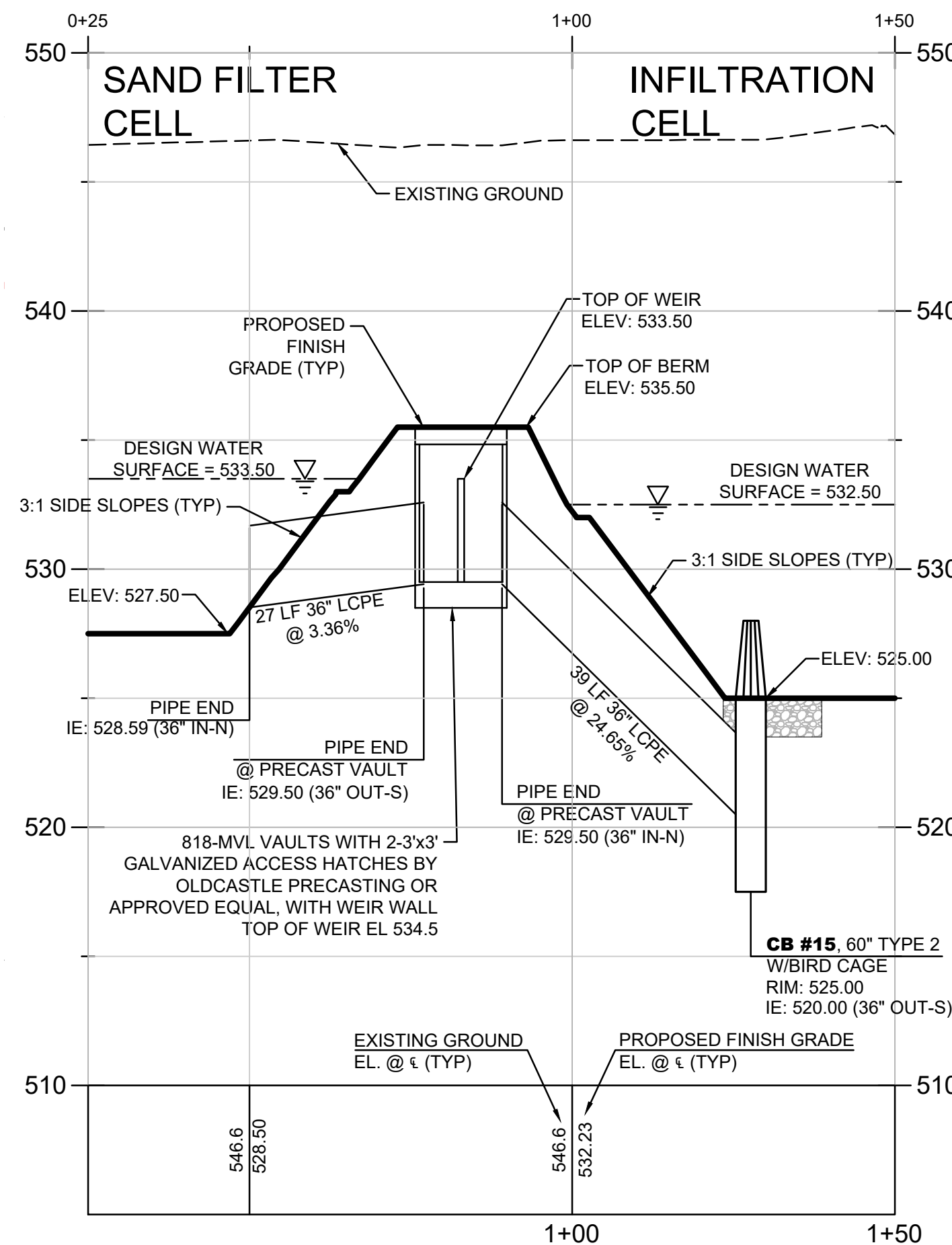
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DAKPCBDP6001

HEET NO.

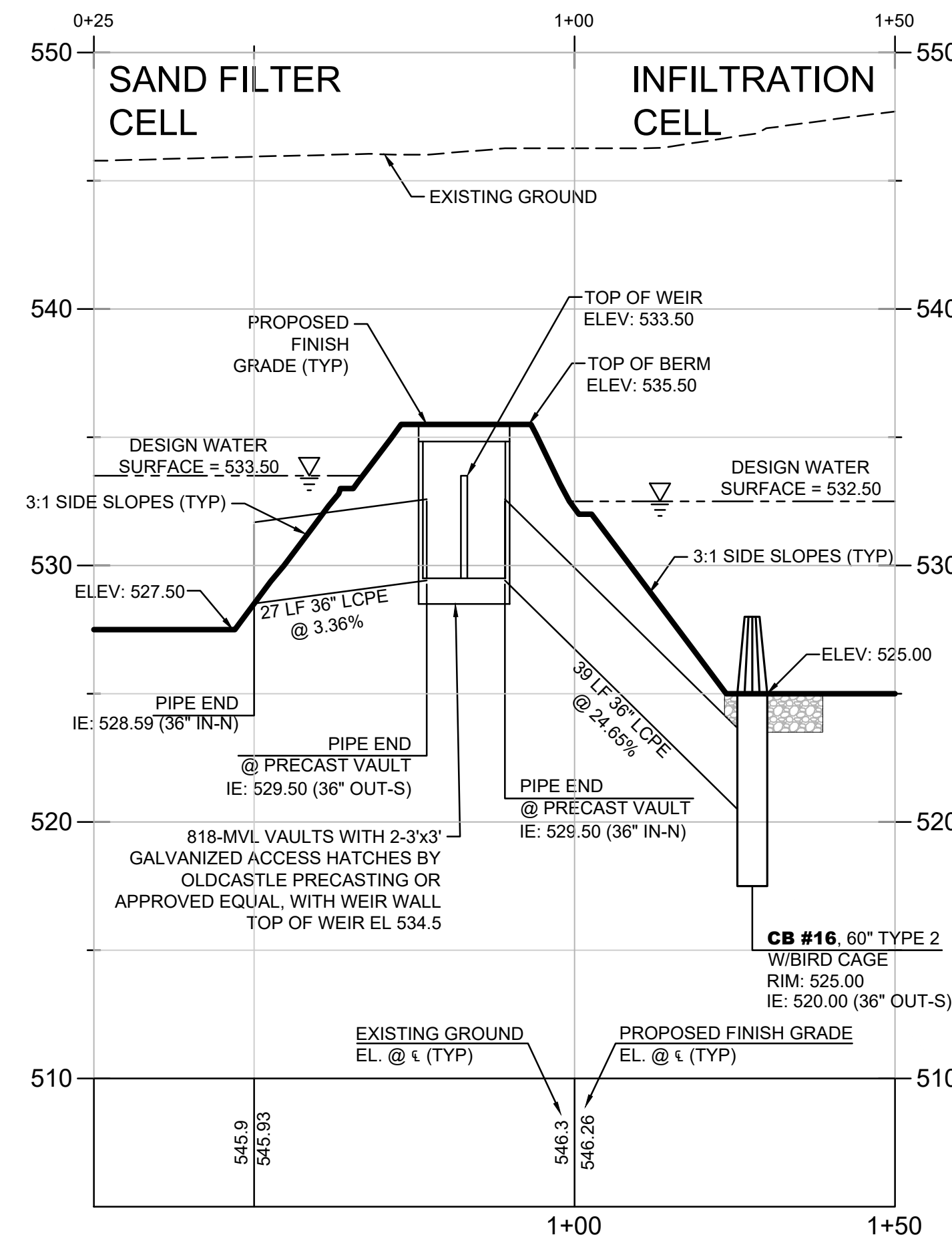
FUTURE DIVISION
OF THE RESERVE
AT WOODLANDS
(SEPARATE PHASE)



WEIR VAULT 4
SCALE: 1"=20' HORIZ, 1"=5' VERT.



WEIR VAULT 5
SCALE: 1"=20' HORIZ, 1"=5' VERT.



WEIR VAULT 6
SCALE: 1"=20' HORIZ, 1"=5' VERT.



DAVID EVANS
AND ASSOCIATES INC.
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

SAND FILTER CELL CONVEYANCE

WASHINGTON

KING COUNTY

DATE:	BY: CK
REVIEWED BY:	
NO. DATE REVISION	

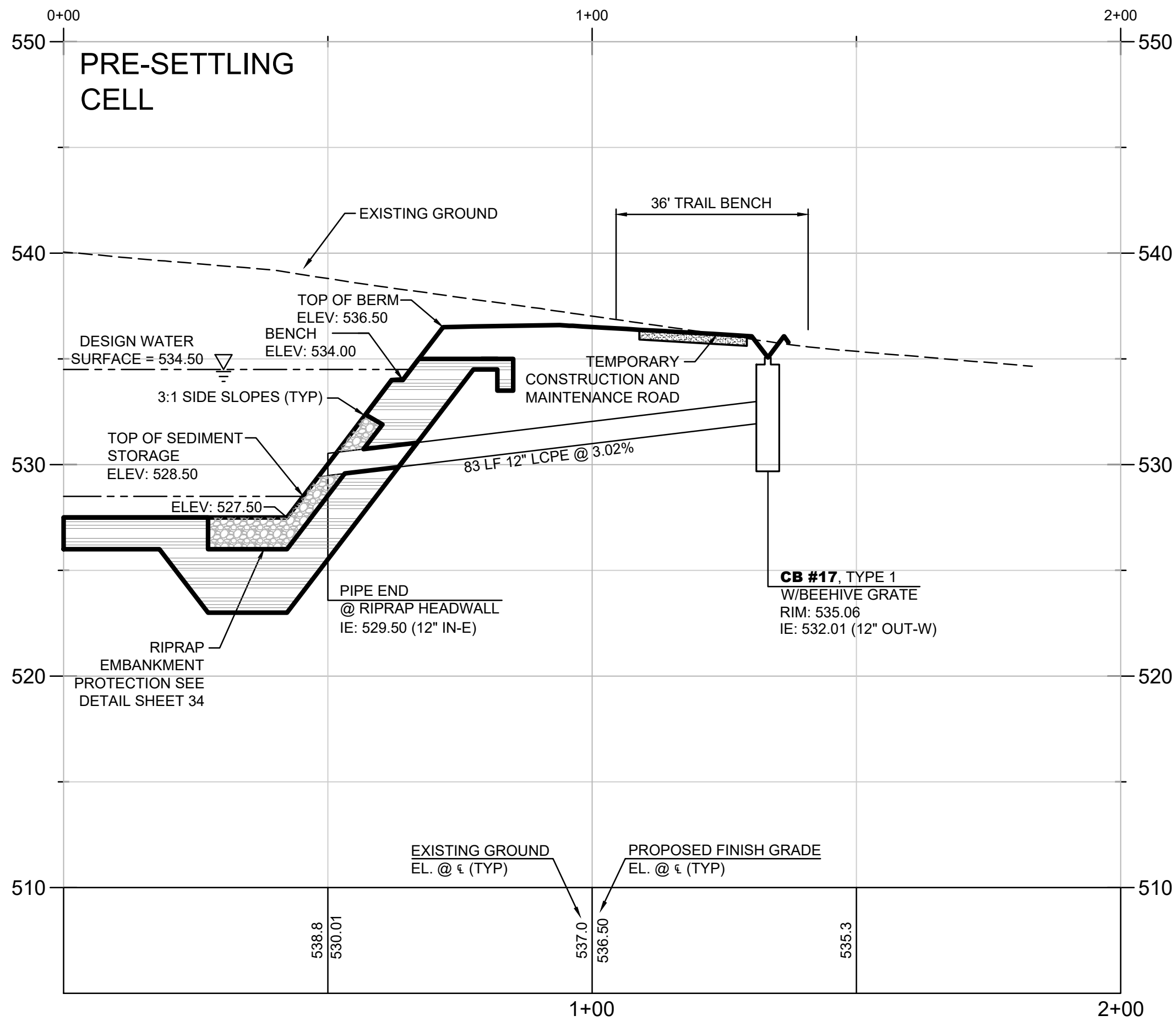
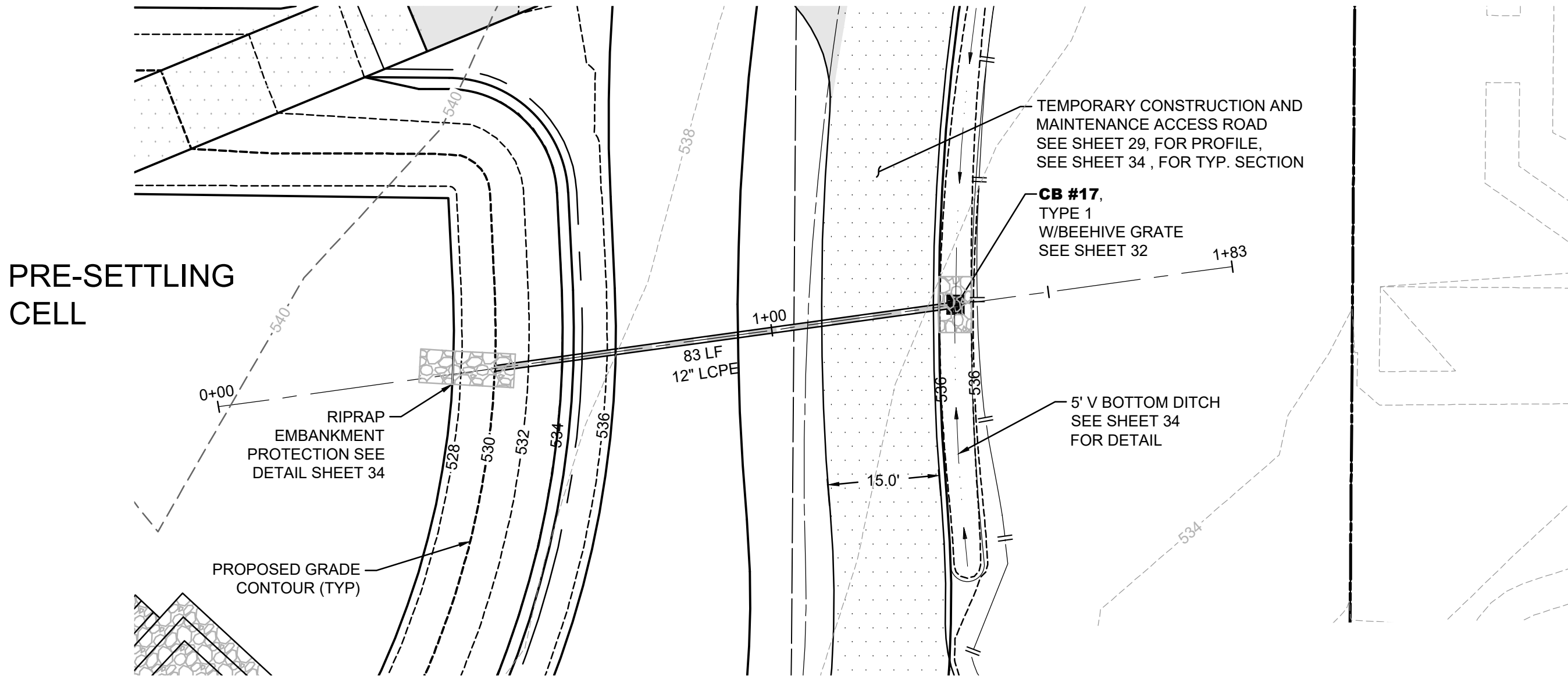
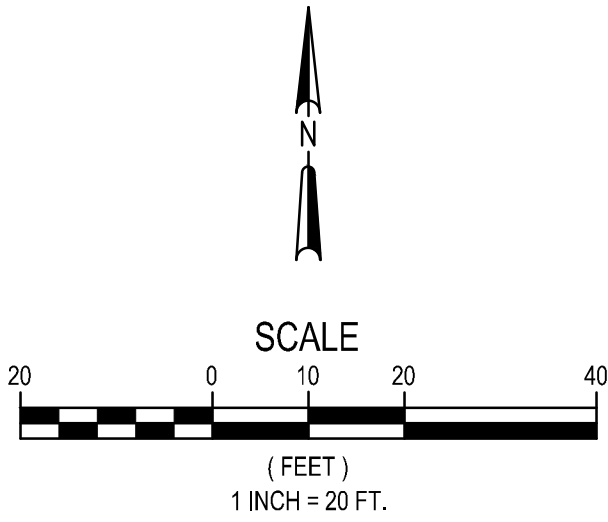


11/14/2024

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FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
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SHEET NO.

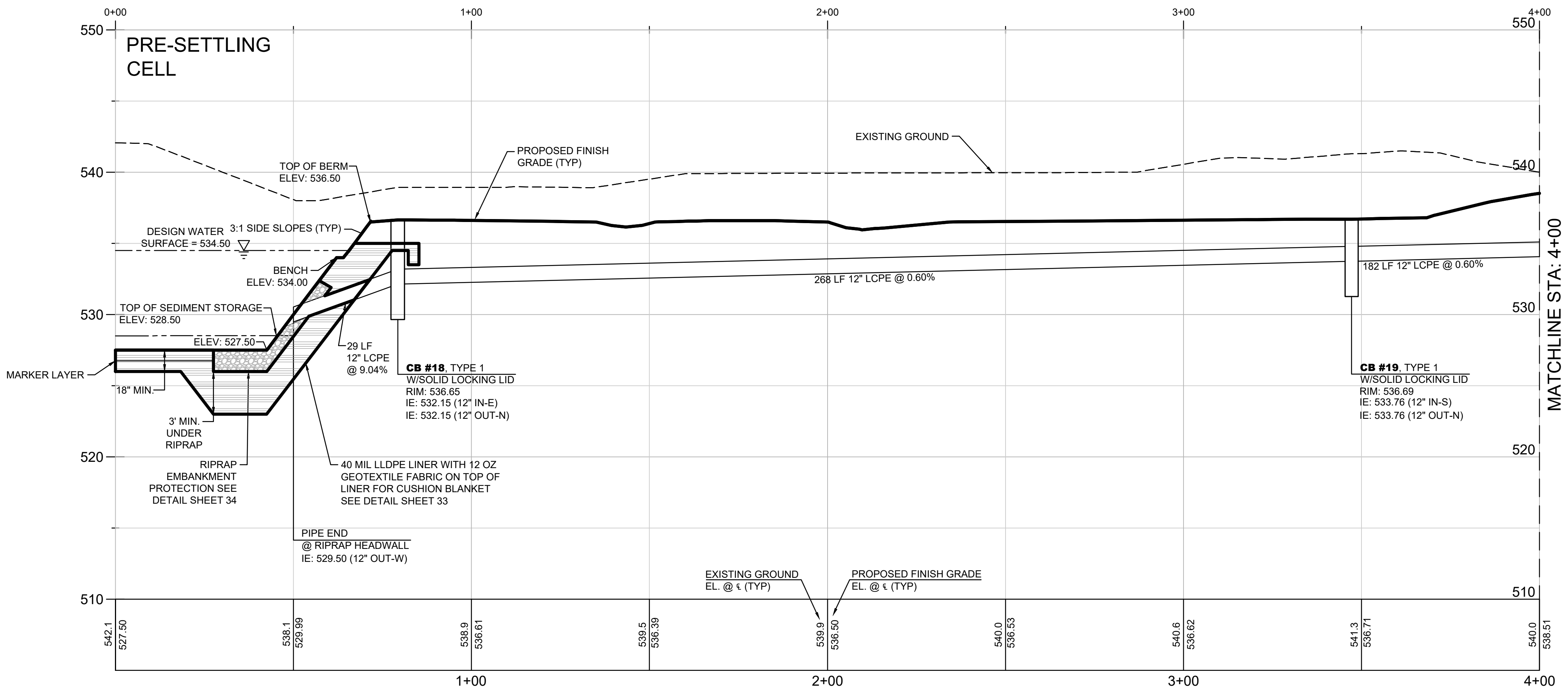
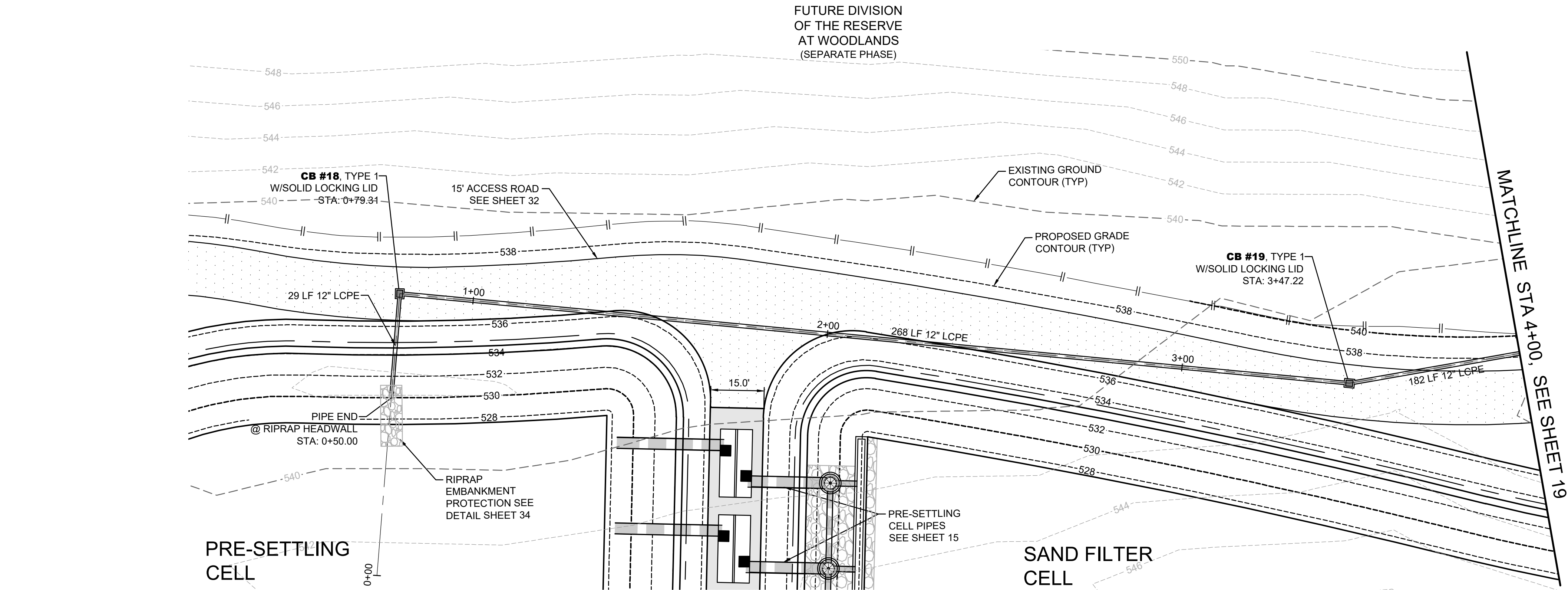
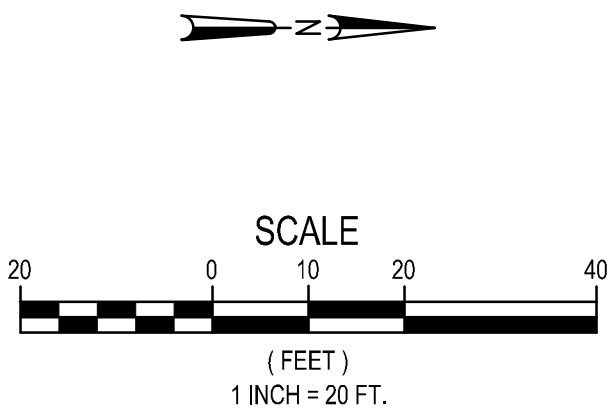


WEST TRAIL DRAINAGE PIPE
SCALE: 1"=20' HORIZ, 1"=5' VERT

REVIEWED BY:	DATE:	BY:	CK:
NO.	DATE	REVISION	



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH
FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OAKPCBDP6001
SHEET NO.



RESERVE AT WOODLANDS DRAINAGE PIPE

SCALE: 1"=20' HORIZ, 1"=5' VERT

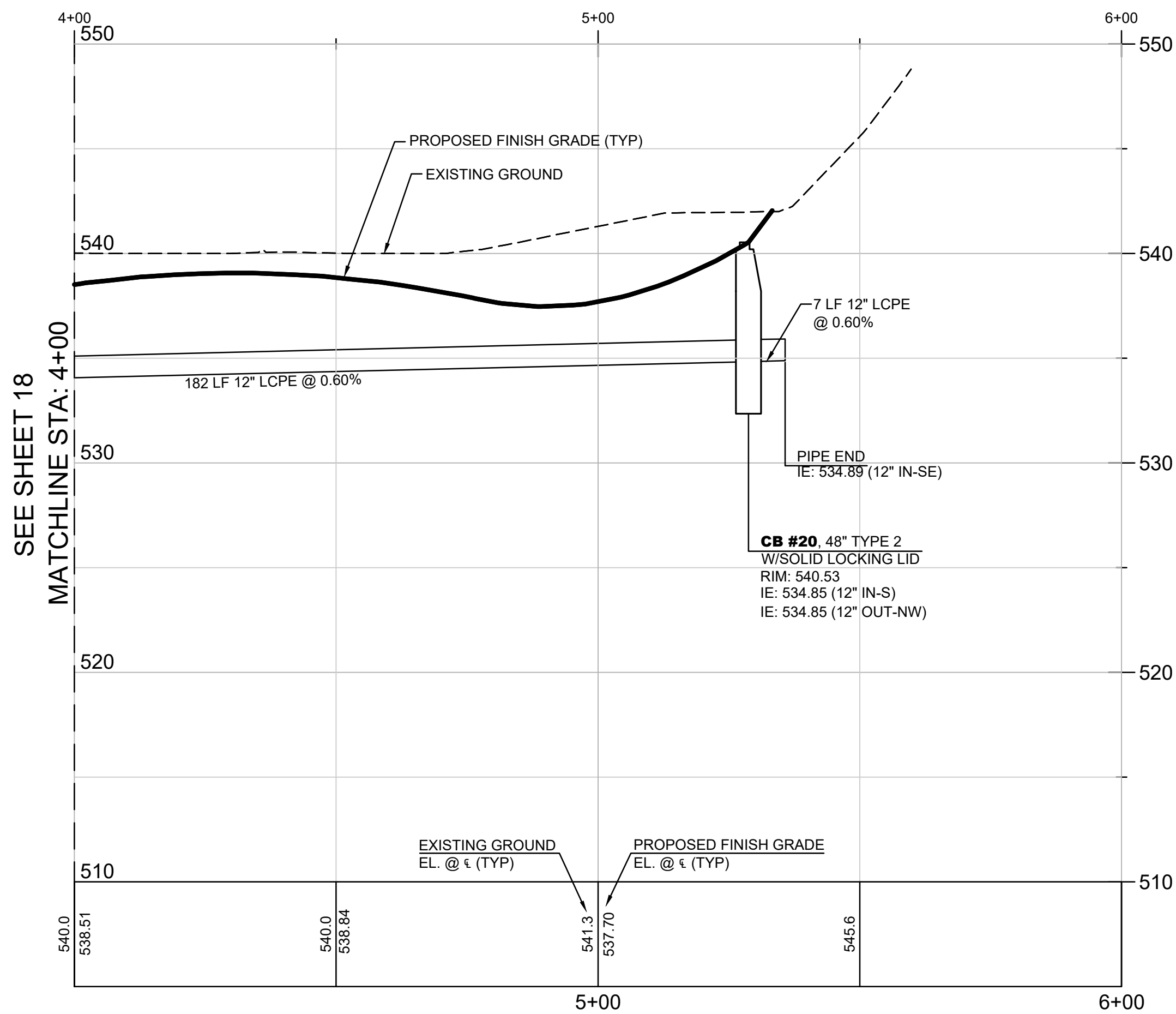
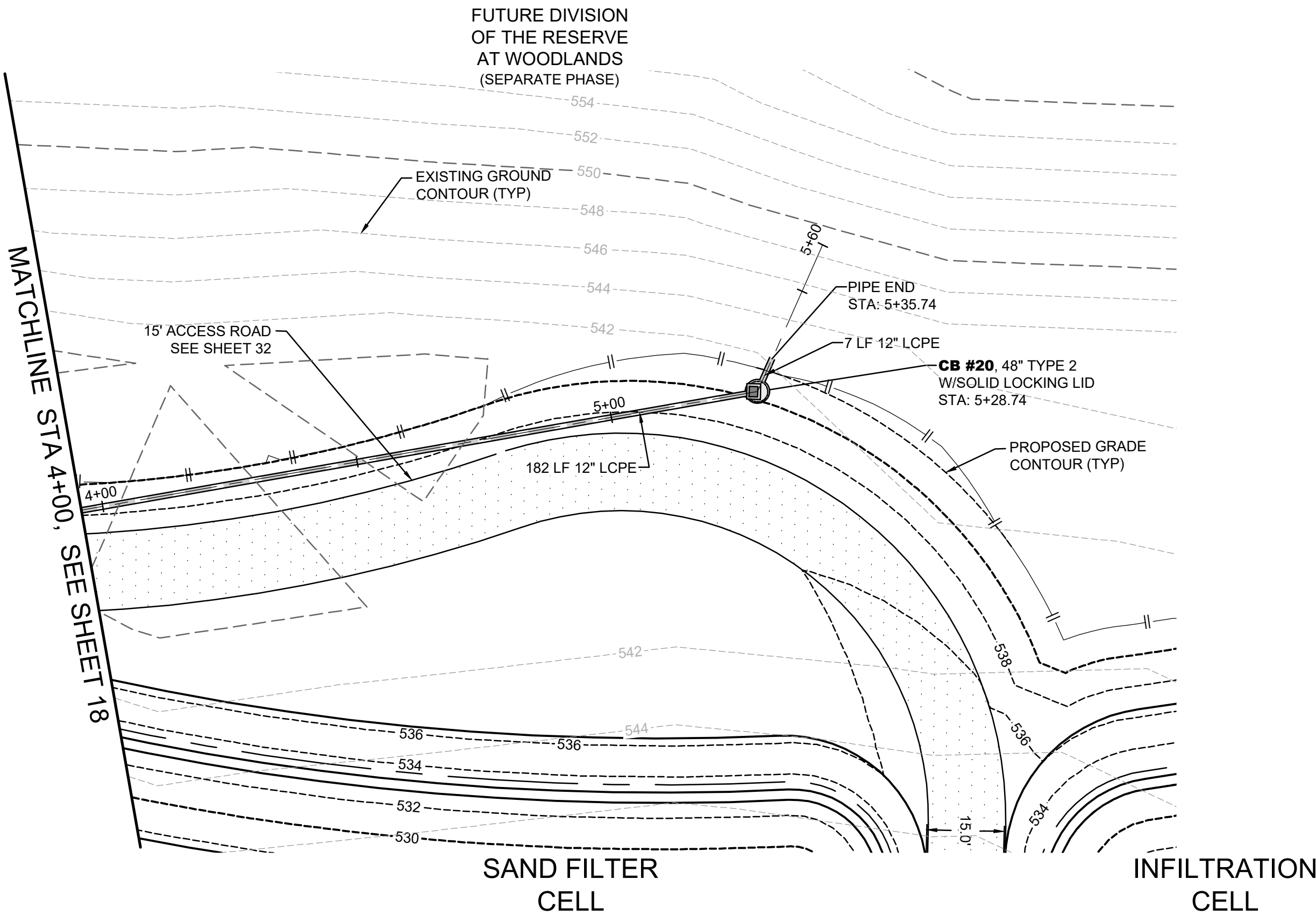
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NO.	DATE	REVISION	



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FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OAKPCBDP6001
SHEET NO.

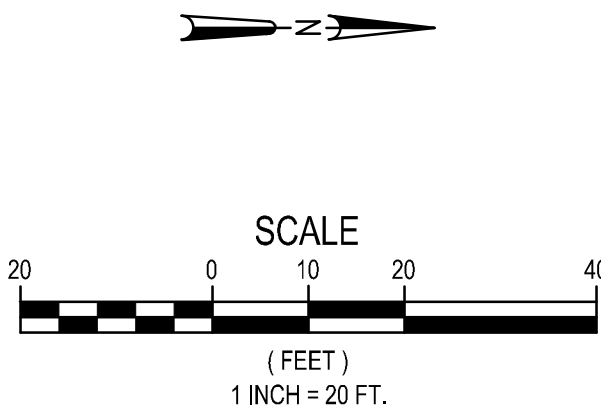
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NW 1/4 SEC 21, TWN 21 N, RGE 6 E, W.M.



RESERVE AT WOODLANDS DRAINAGE PIPE

SCALE: 1"=20' HORIZ, 1"=5' VERT



THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

RESERVE AT WOODLANDS DRAINAGE PIPE

WASHINGTON

KING COUNTY

REVIEWED BY:	DATE	BY	CK
NO.	DATE	REVISION	



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

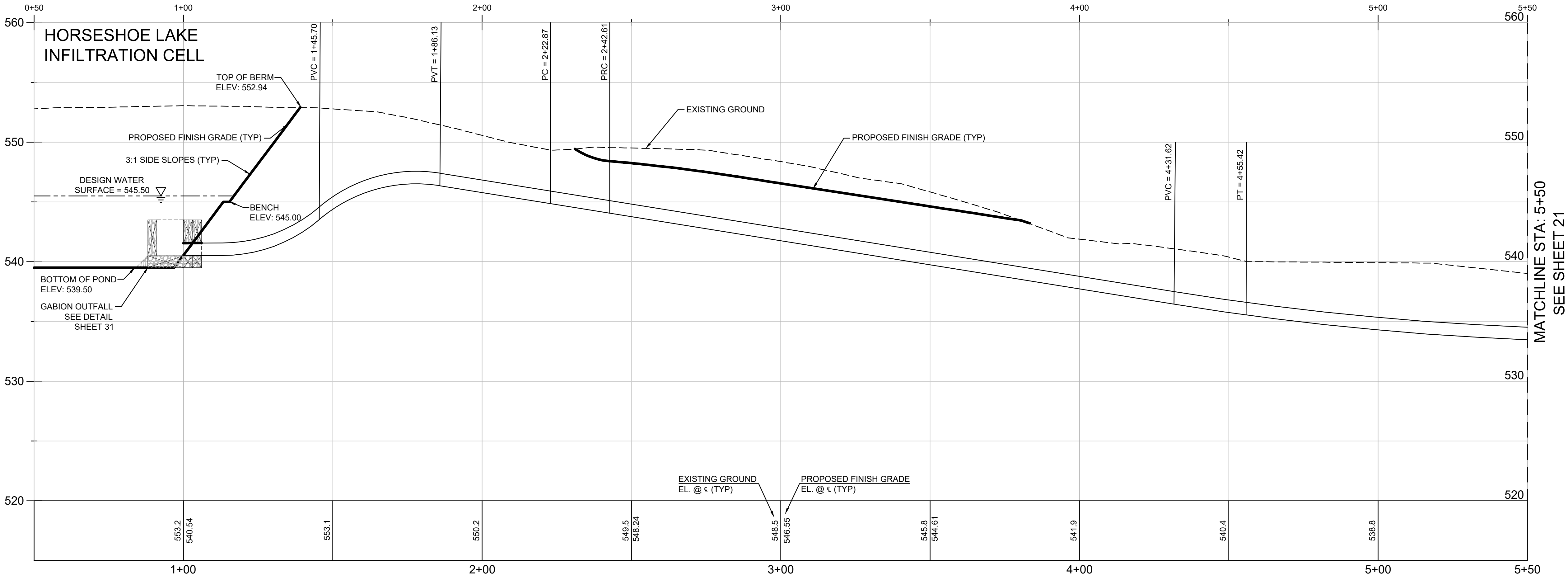
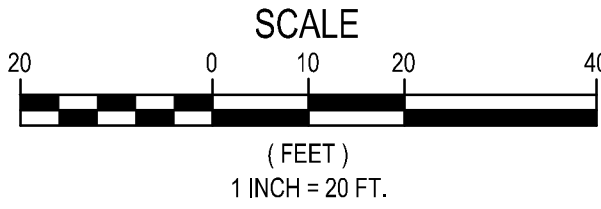
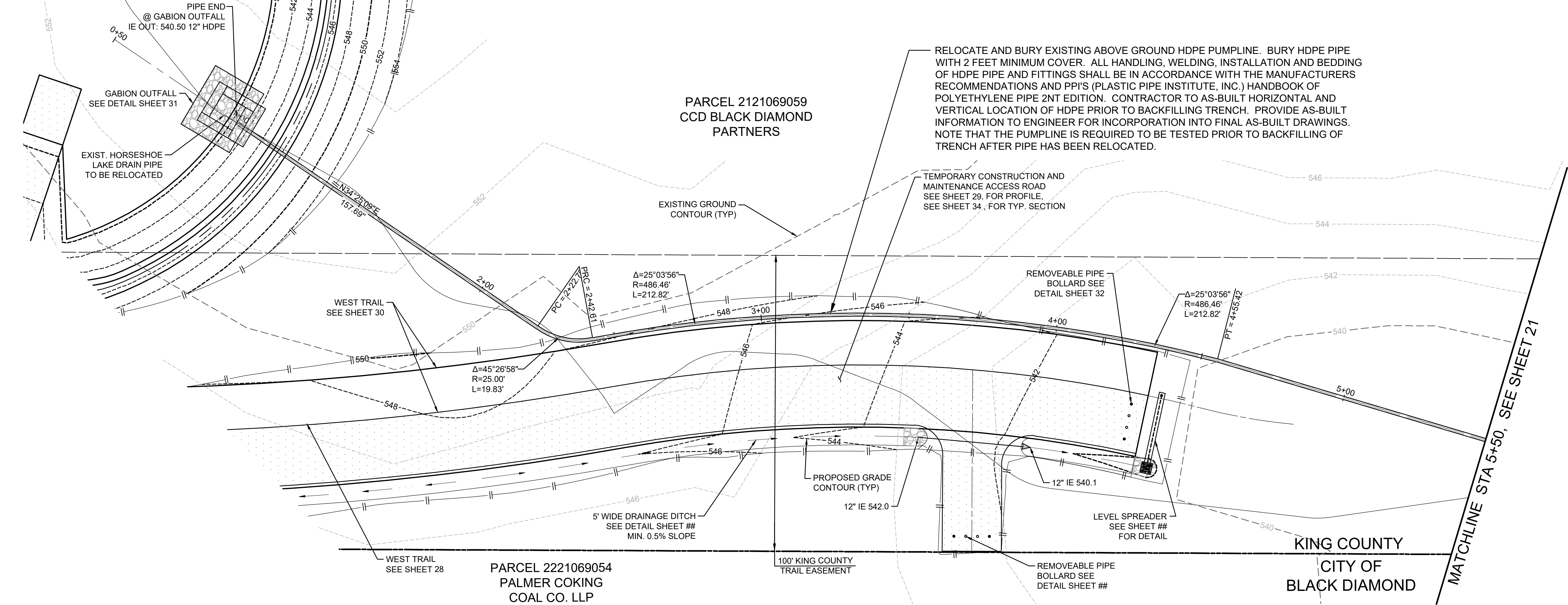
FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.

NW 1/4 SEC 21, TWN 21 N, RGE 6 E, W.M.

HORSESHOE LAKE
INFILTRATON CELL



HORSESHOE LAKE DRAINAGE PIPE

SCALE: 1"=20' HORIZ, 1"=5' VERT

THE RESERVE AT WOODLANDS
REGIONAL STROMWATER FACILITY

HORSESHOE LAKE OUTFALL PIPE

WASHINGTON

KING COUNTY

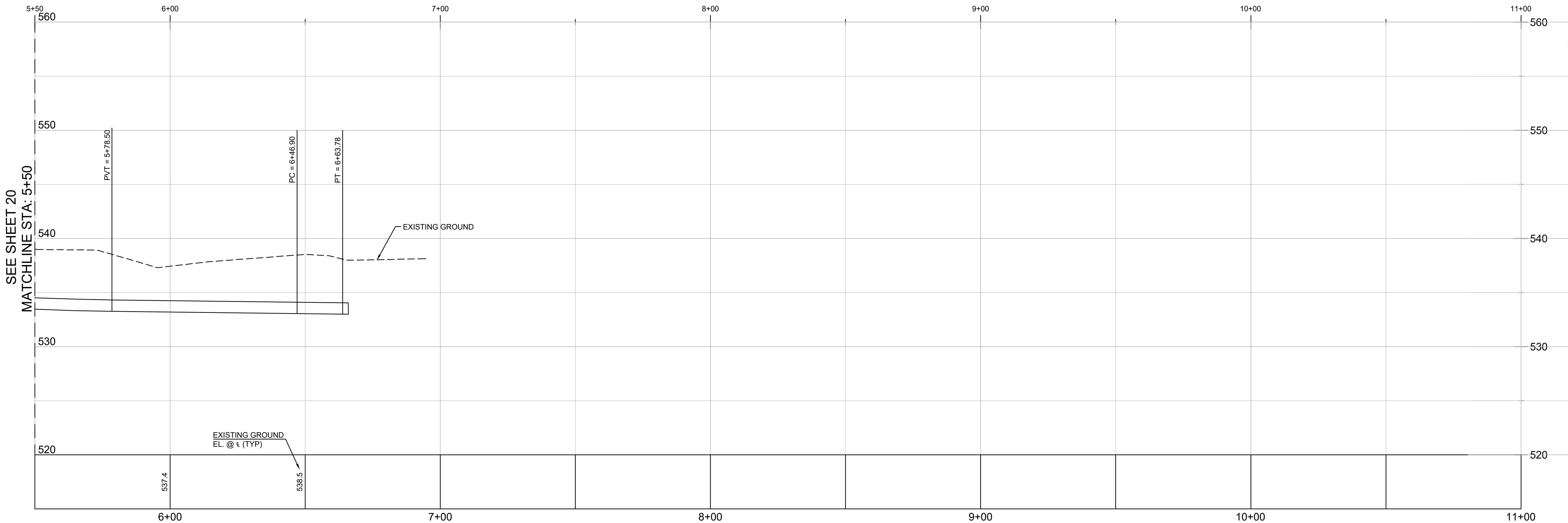
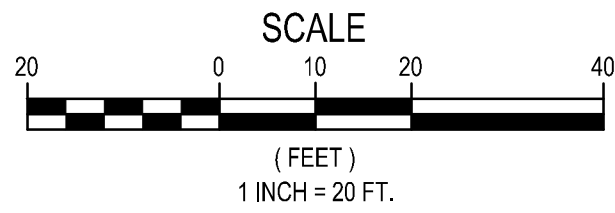
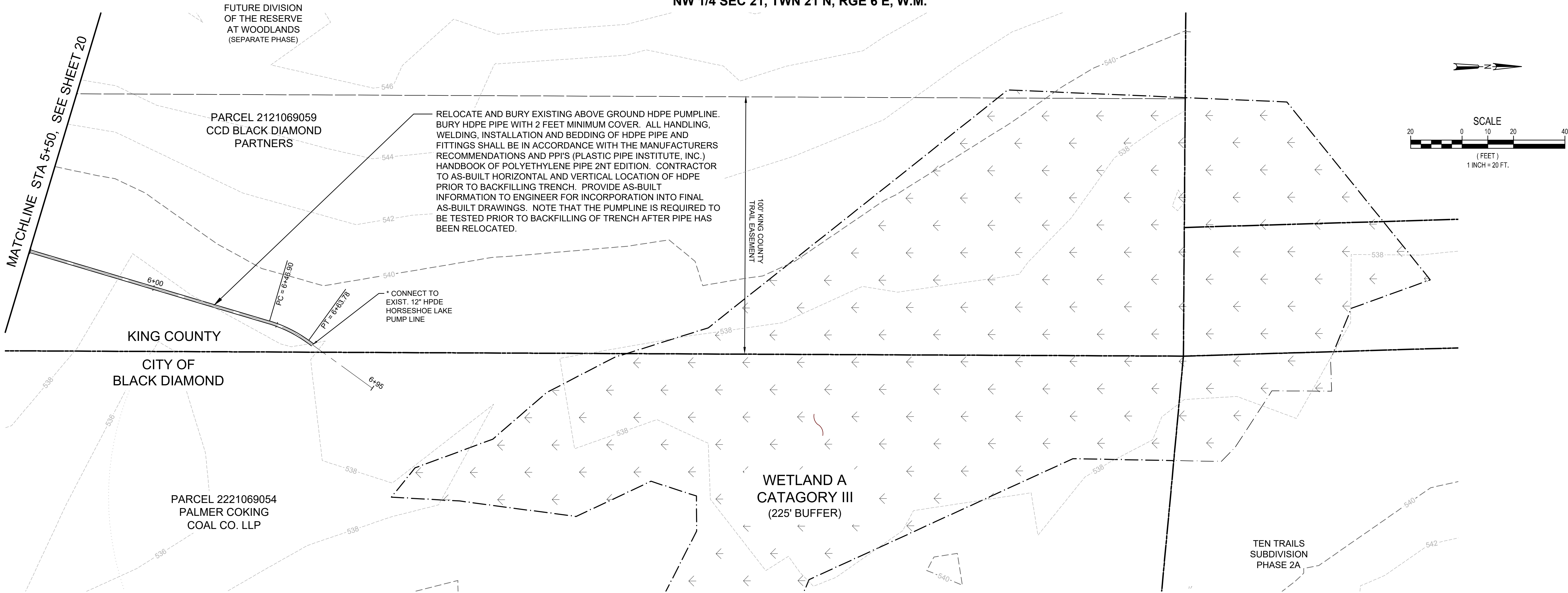
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NO.	DATE	REVISION	



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DESIGNED BY: DAM
DRAWN BY: CAH
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PROJECT NO.
OAKPCBDP6001
SHEET NO.

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By: Doug Merriam
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NW 1/4 SEC 21, TWN 21 N, RGE 6 E, W.M.



HORSESHOE LAKE DRAINAGE PIPE

SCALE: 1"=20' HORIZ. 1"=5' VERT



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Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

HORSESHOE LAKE PIPE

WASHINGTON

KING COUNTY

REVIEWED BY: DATE: BY: OK

NO. DATE REVISION



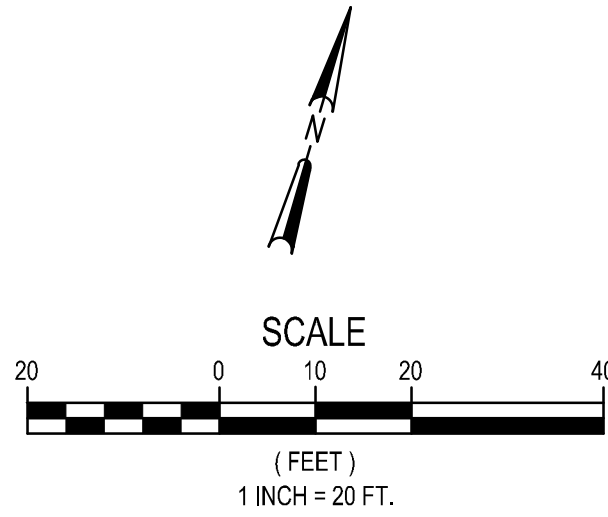
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DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.

21 of 41



THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
STORM DRAIN INTO PRE-SETTLING CELL

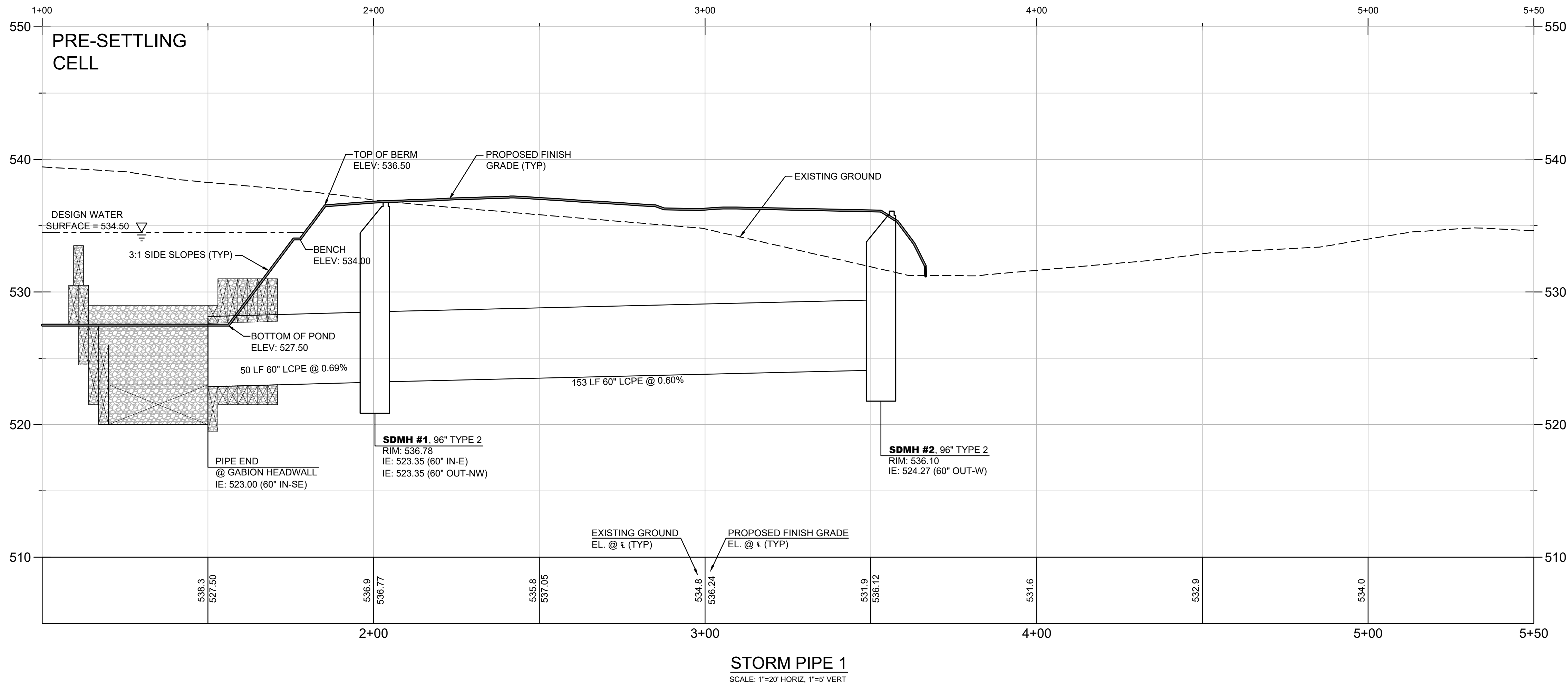
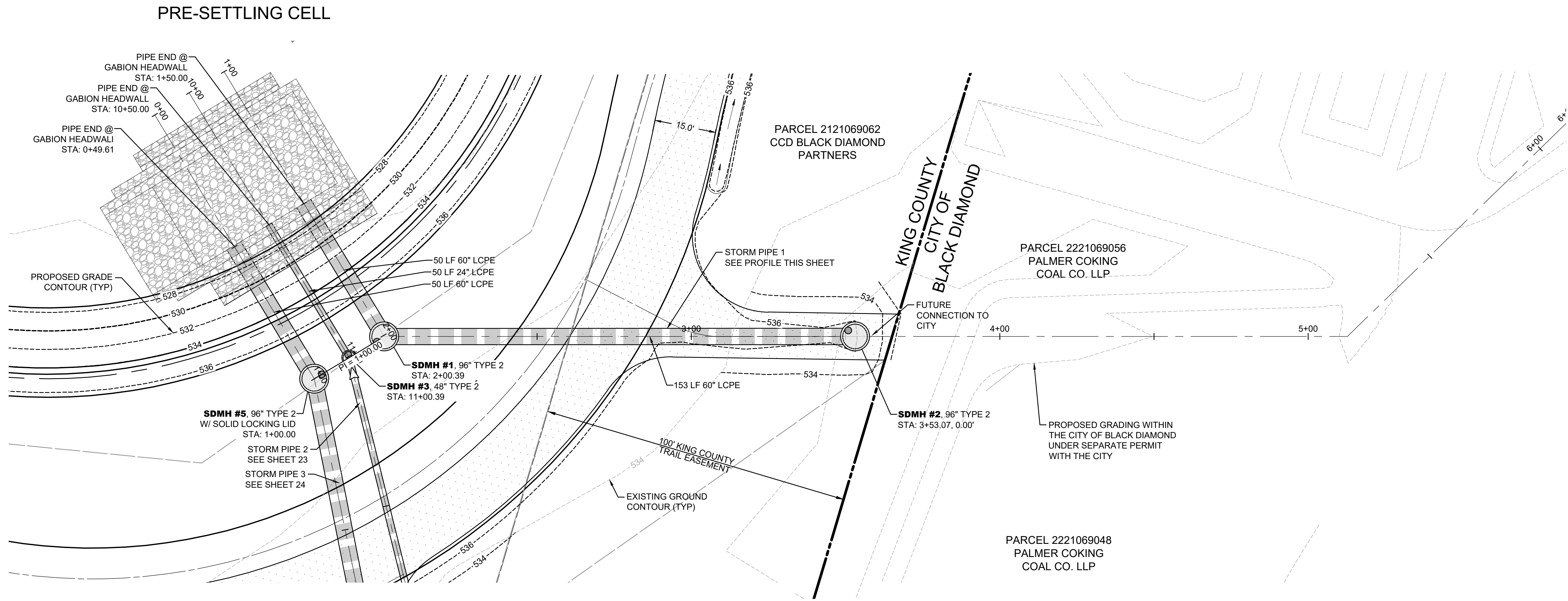
WASHINGTON

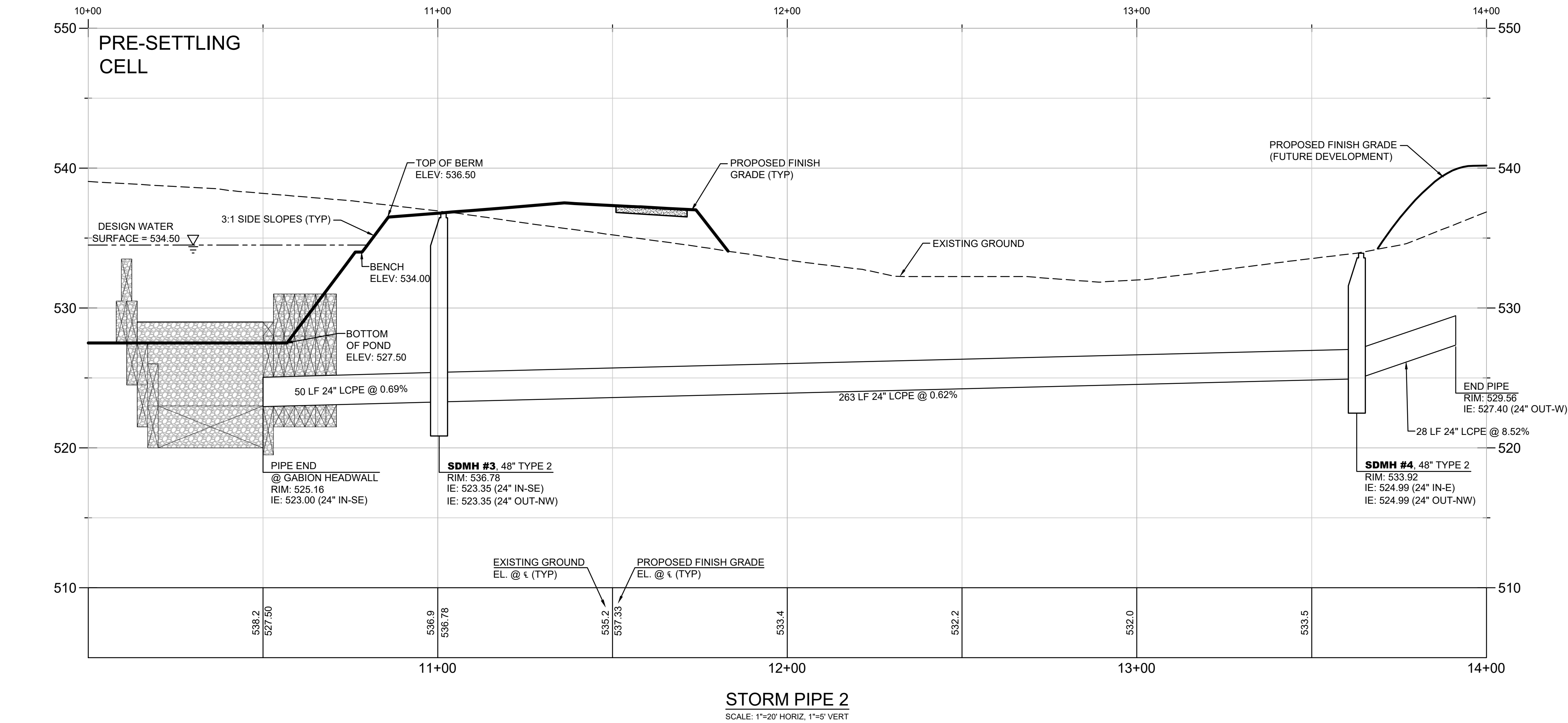
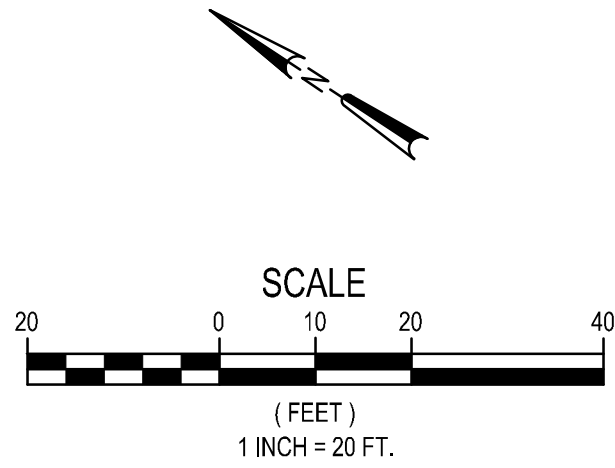
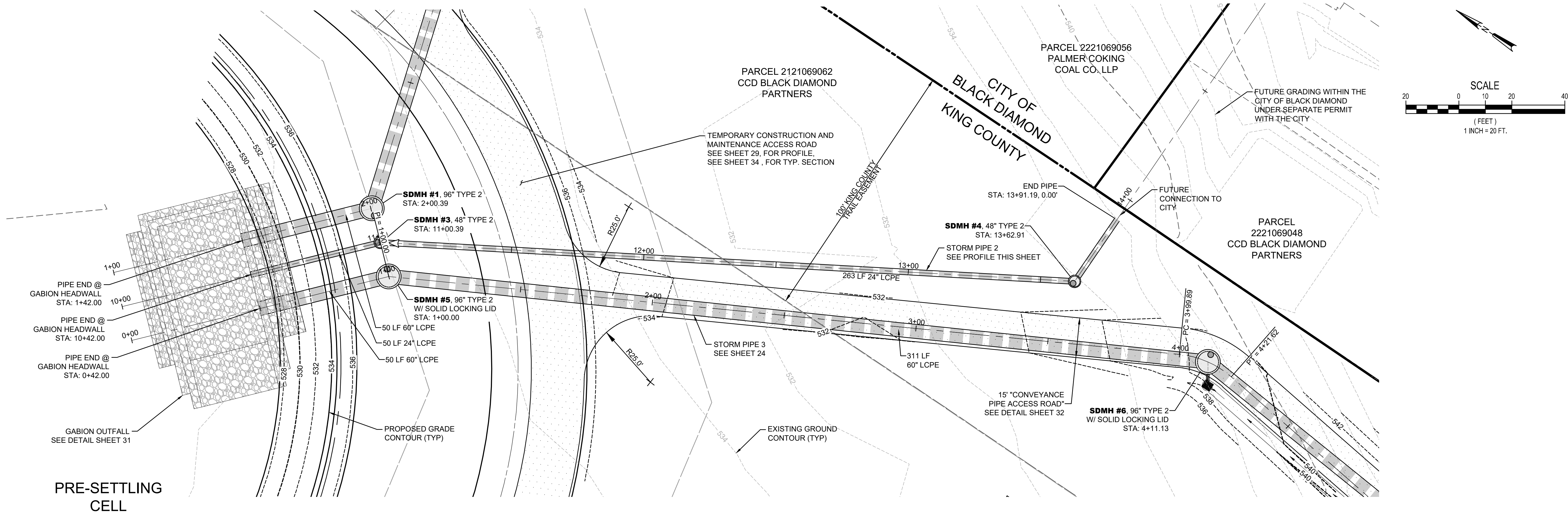
KING COUNTY

REVIEWED BY:	DATE:	BY:	OK
NO.	DATE	REVISION	



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FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OKPCBDP6001
SHEET NO.

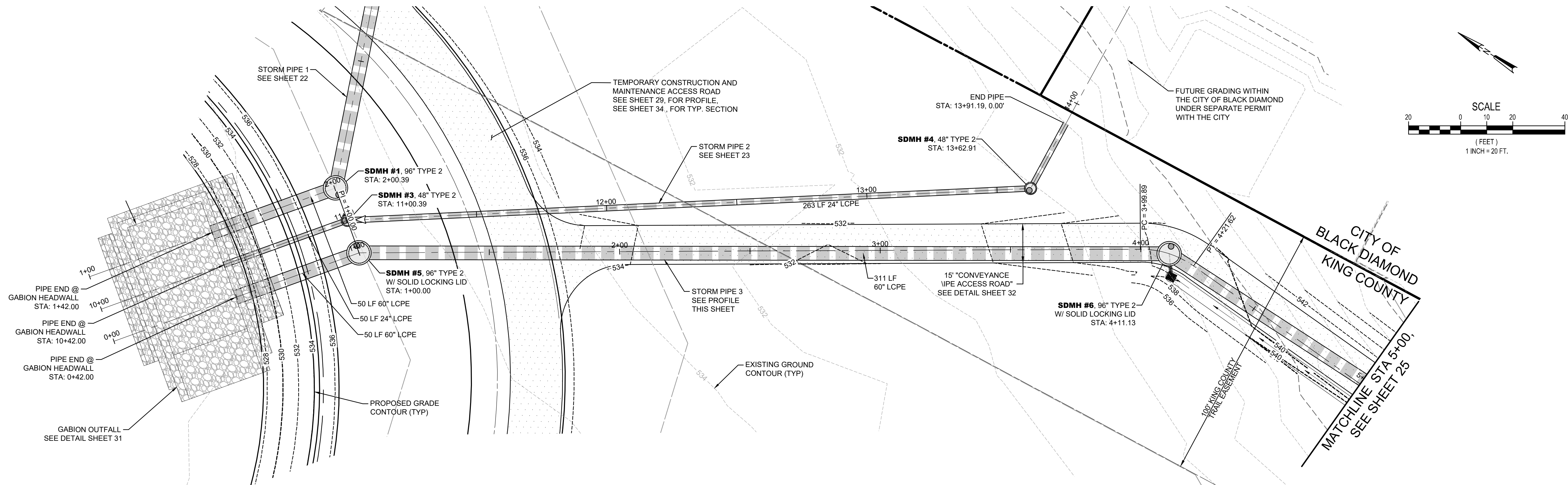




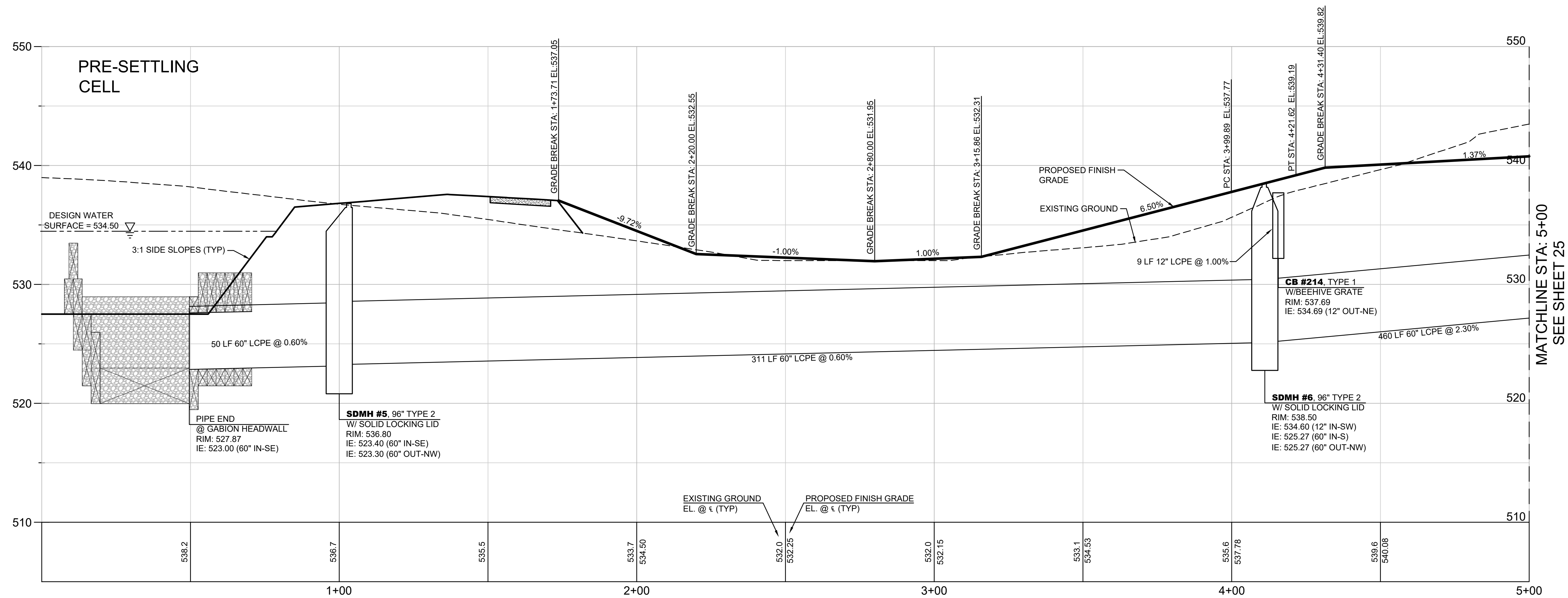
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NO.	DATE	REVISION	



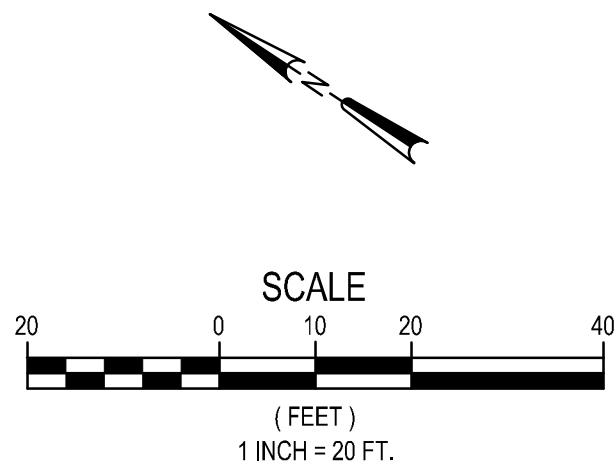
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DRAWN BY: CAH
FIRST SUBMITTAL DATE: 11/14/2024
PROJECT NO.
OAKPCBDP6001
SHEET NO.



PRE-SETTLING
CELL



SOUTH SD ACCESS
SCALE: 1"=20' HORIZ, 1"=5' VERT



THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

STORM DRAIN INTO PRE-SETTLING CELL

WASHINGTON

KING COUNTY

REVIEWED BY:	DATE:	BY:	OK
NO.	DATE	REVISION	



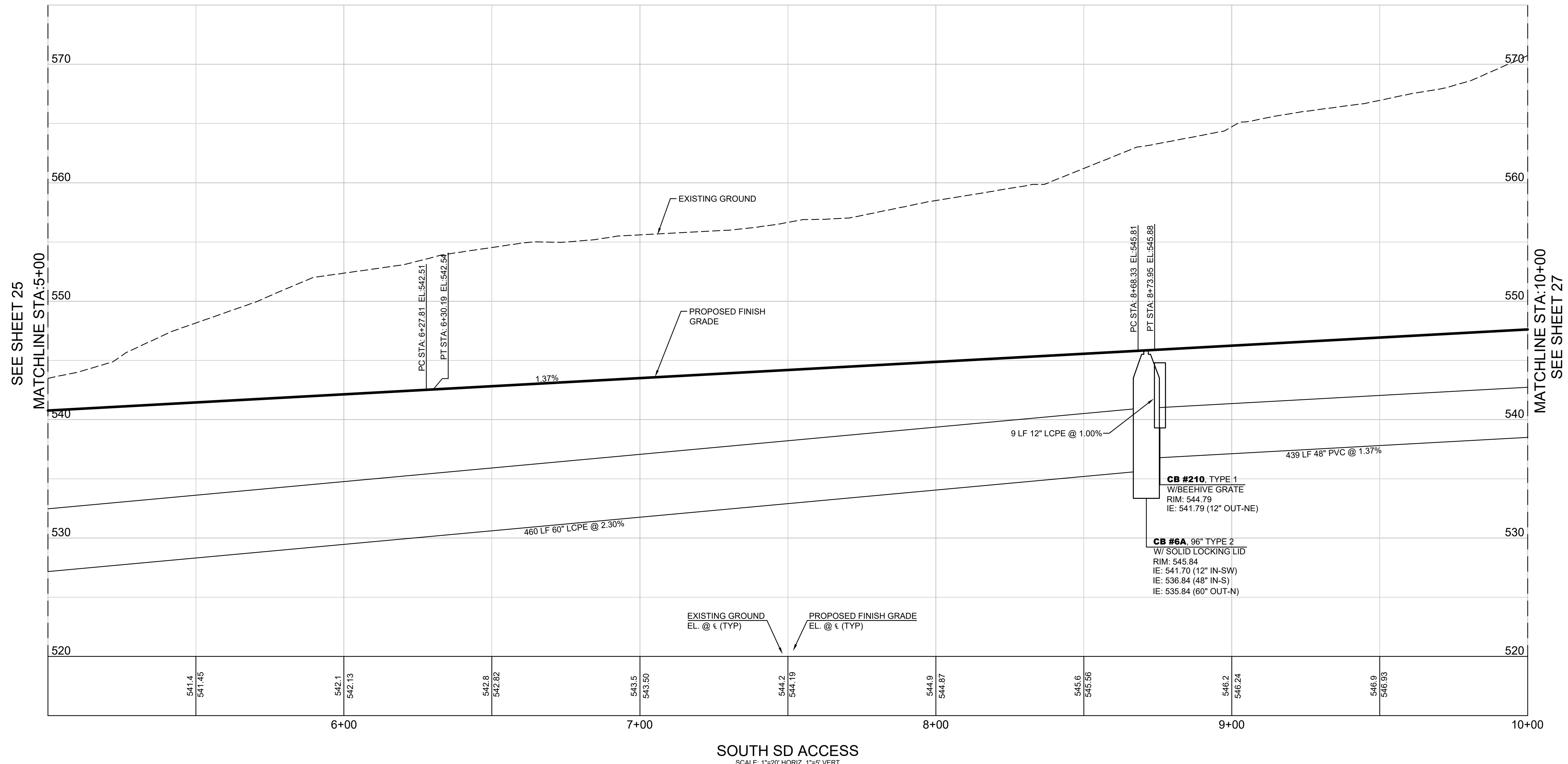
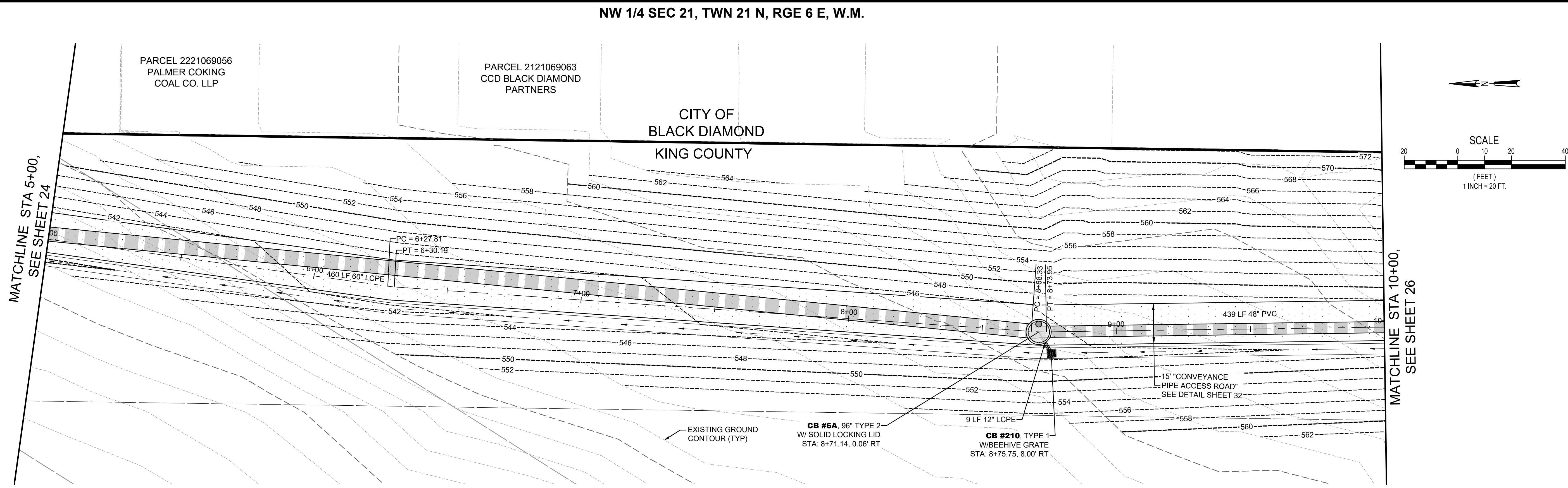
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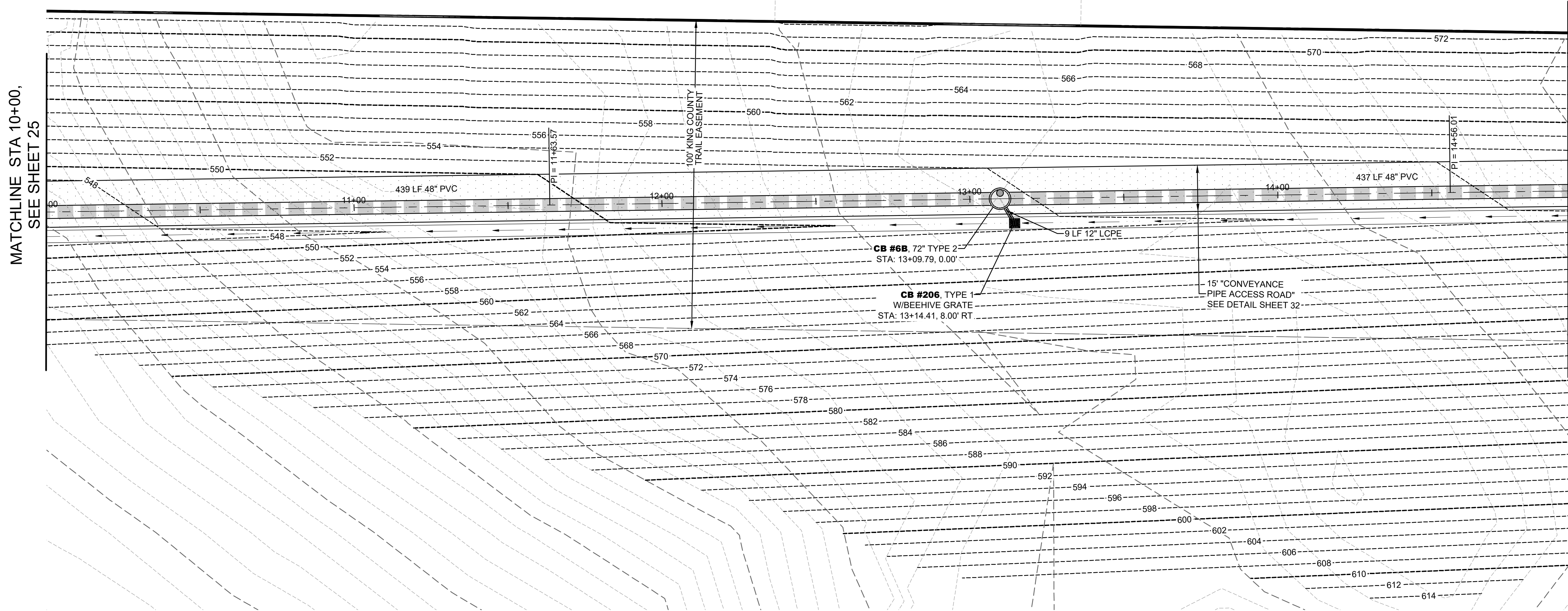
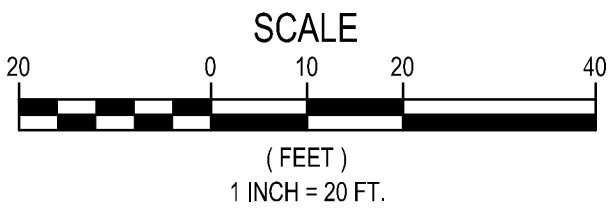
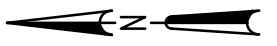
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PROJECT NO.
OAKPCBDP6001

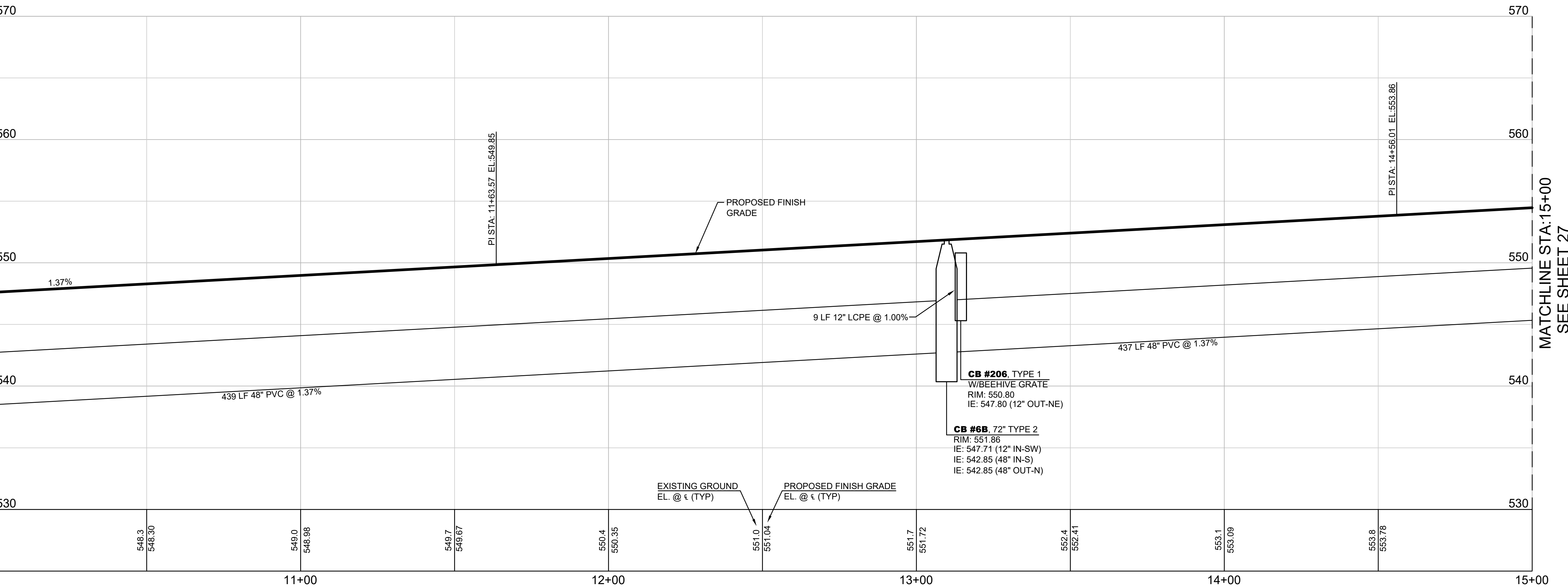
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MATCHLINE STA 21+00,
SEE SHEET 27



SOUTH SD ACCESS
SCALE: 1"=20' HORIZ, 1"=5' VERT

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

STORM DRAIN INTO PRE-SETTLING CELL

WASHINGTON

KING COUNTY

REVIEWED BY:	DATE:	BY:	OK
NO.	DATE	REVISION	



CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

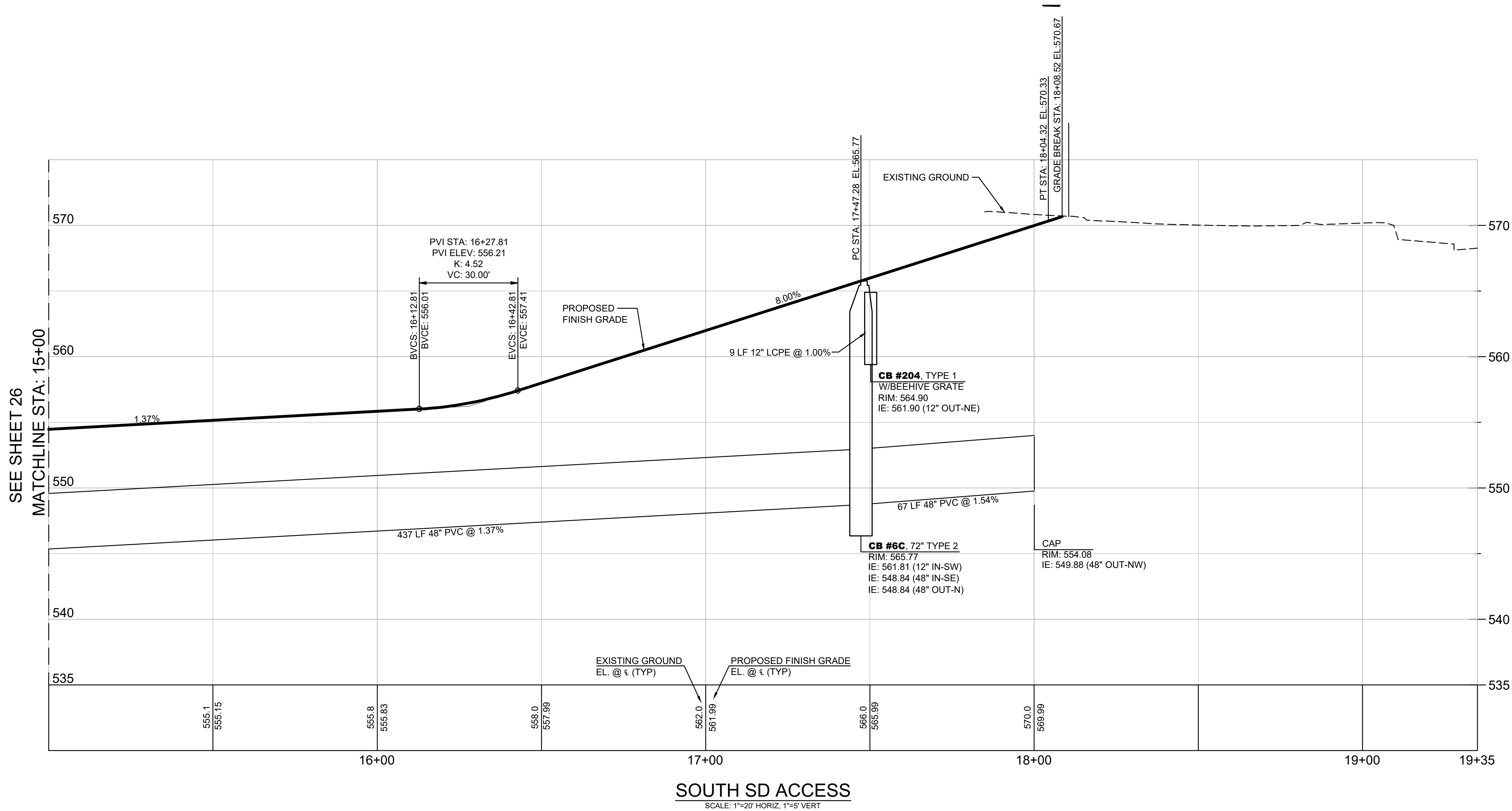
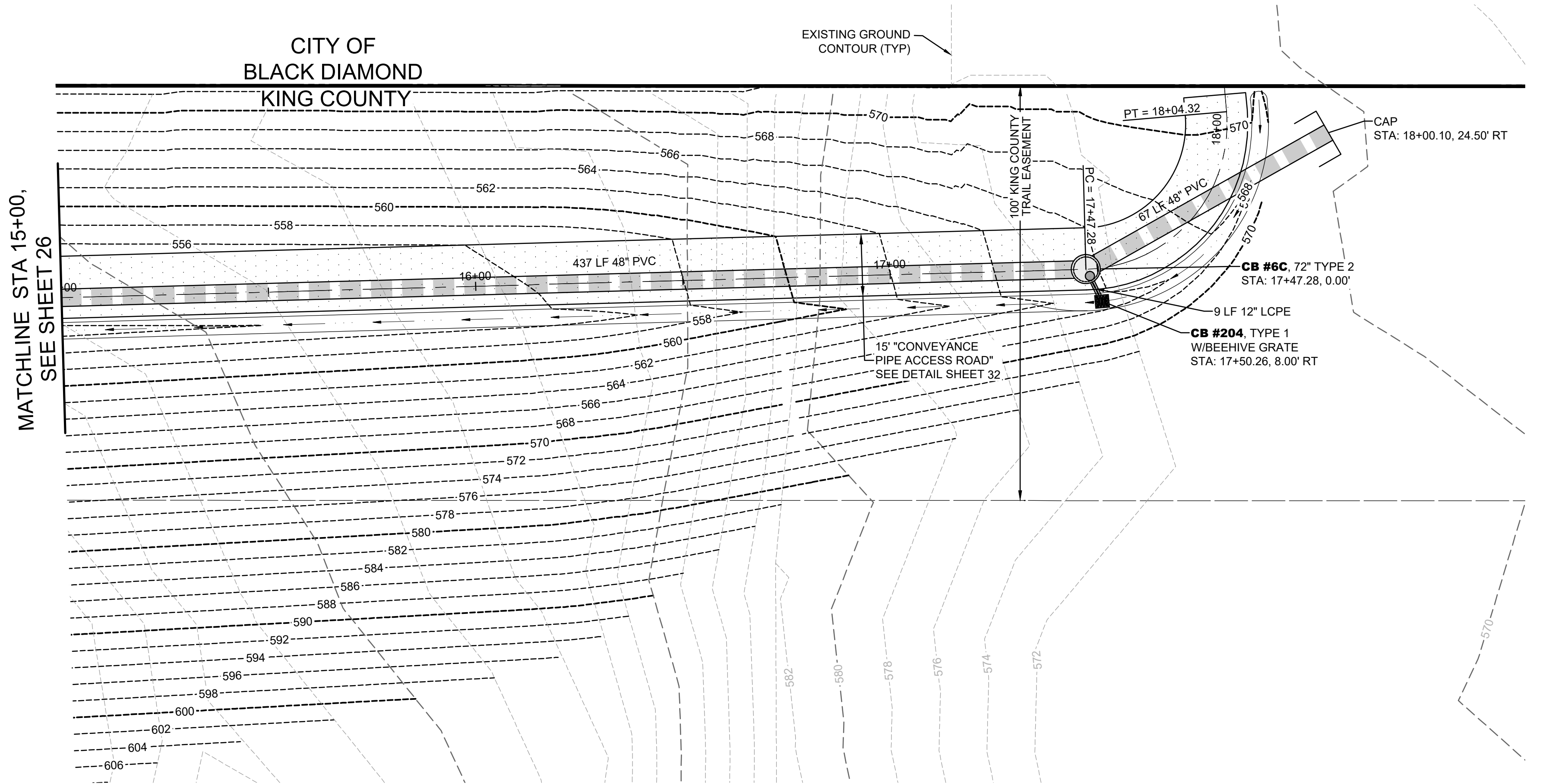
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NW 1/4 SEC 21, TWN 21 N, RGE 6 E, W.M.



**DAVID EVANS
AND ASSOCIATES INC.**
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

STORM DRAIN INTO PRE-SETTLING CELL

WASHINGTON

KING COUNTY

REVIEWED BY:	DATE:	BY:	CK:
NO.	DATE	REVISION	



CHECKED BY: AYS
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DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.
27 of 41

CITY OF
BLACK DIAMOND

PARCEL 2221069054
PALMER COOKING
COAL CO. LLP

WETLAND A
CATEGORY III
225' BUFFER

CB #21 TYPE 1-
W/BEEHIVE GRATE
STA: 10+94.14, 24.03' LT

BOLLARDS
SEE DETAIL SHEET 32

100' KING COUNTY
TRAIL EASEMENT

TEMPORARY CONSTRUCTION AND
MAINTENANCE ACCESS ROAD
SEE SHEET 34, FOR TYP. SECTION

BOUNDARY LINE
(TYP)

5' V BOTTOM DITCH
SEE SHEET 34
FOR DETAIL

EXISTING GRADE
CONTOUR (TYP)

KING COUNTY

PARCEL 2121069059
CCD BLACK DIAMOND
PARTNERS

WATER QUALITY POND
ACCESS ROAD
SEE SHEET 32

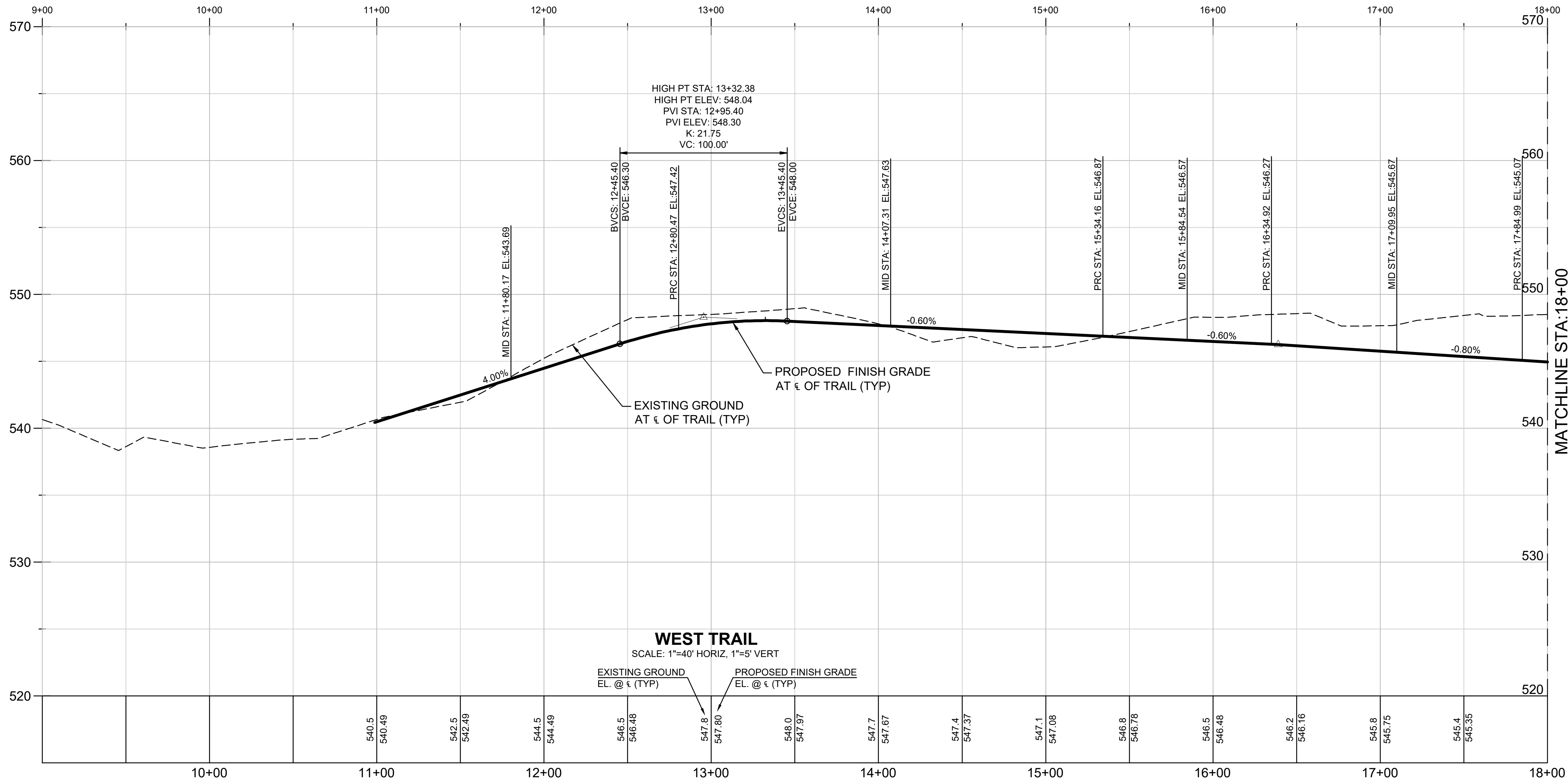
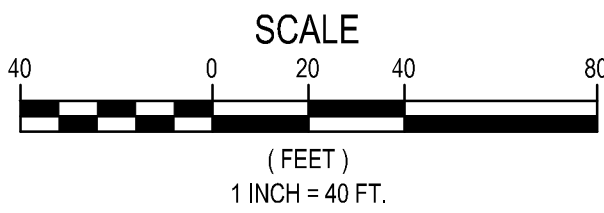
HORSESHOE LAKE
STORM DRAIN PIPE
SEE SHEETS 20 & 21

EXIST. HORSESHOE
LAKE DISCHARGE PIPE
TO BE RELOCATED

HORSESHOE LAKE
INFILTRATION CELL

INFILTRATION
CELL

MATCHLINE STA 18+00, SEE SHEET 29



CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE
AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE
CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY
LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH
CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN TWO
FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION
WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED.
EXISTING UTILITIES TO BE LOCATED, PROTECTED, AND
REPAIRED IN ACCORDANCE WITH RCW 19.122.



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Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

WEST TRAIL PLAN AND PROFILE

WASHINGTON

KING COUNTY

DATE: BY: OK

REVIEWED BY:
NO. DATE REVISION

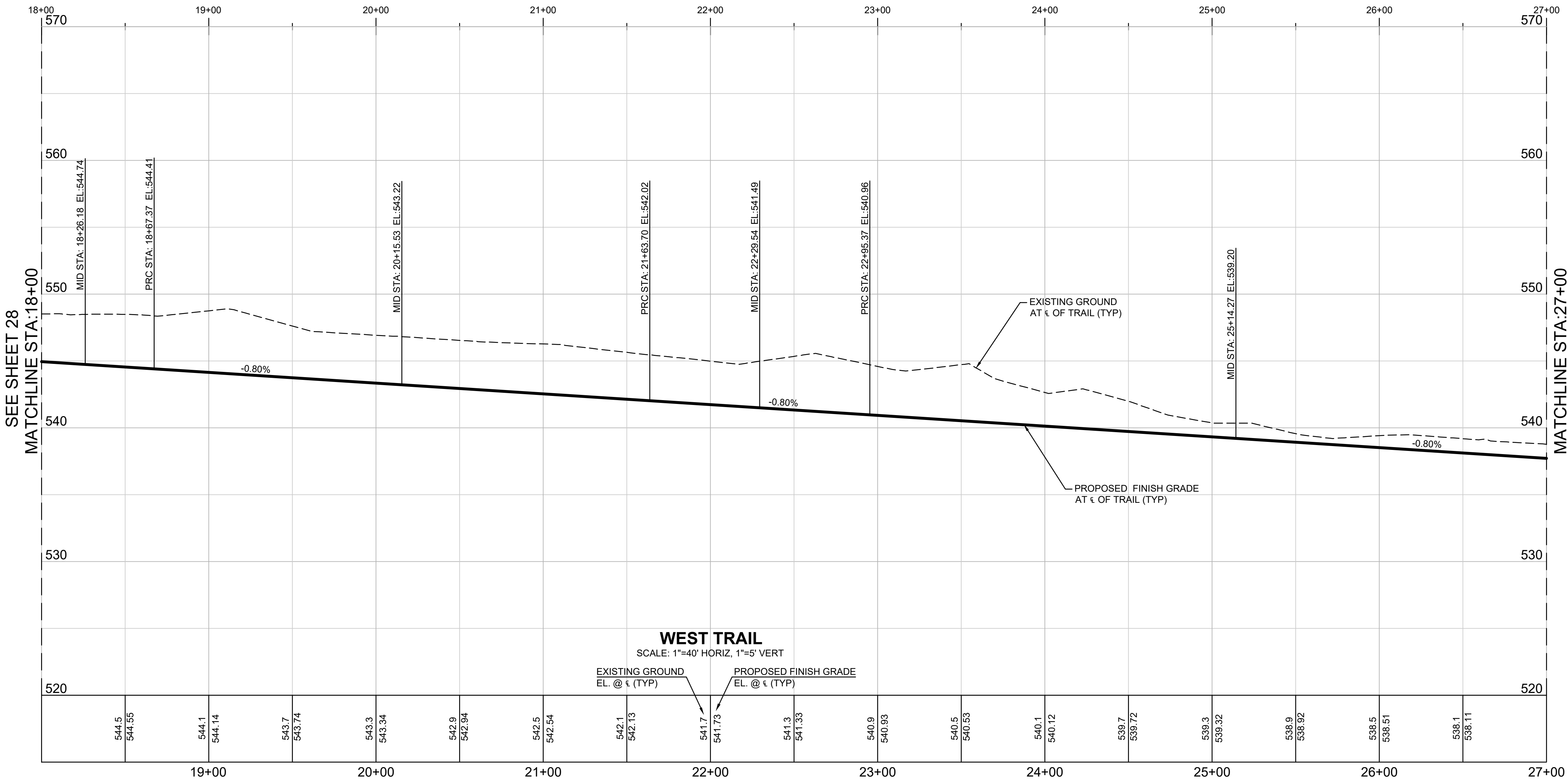
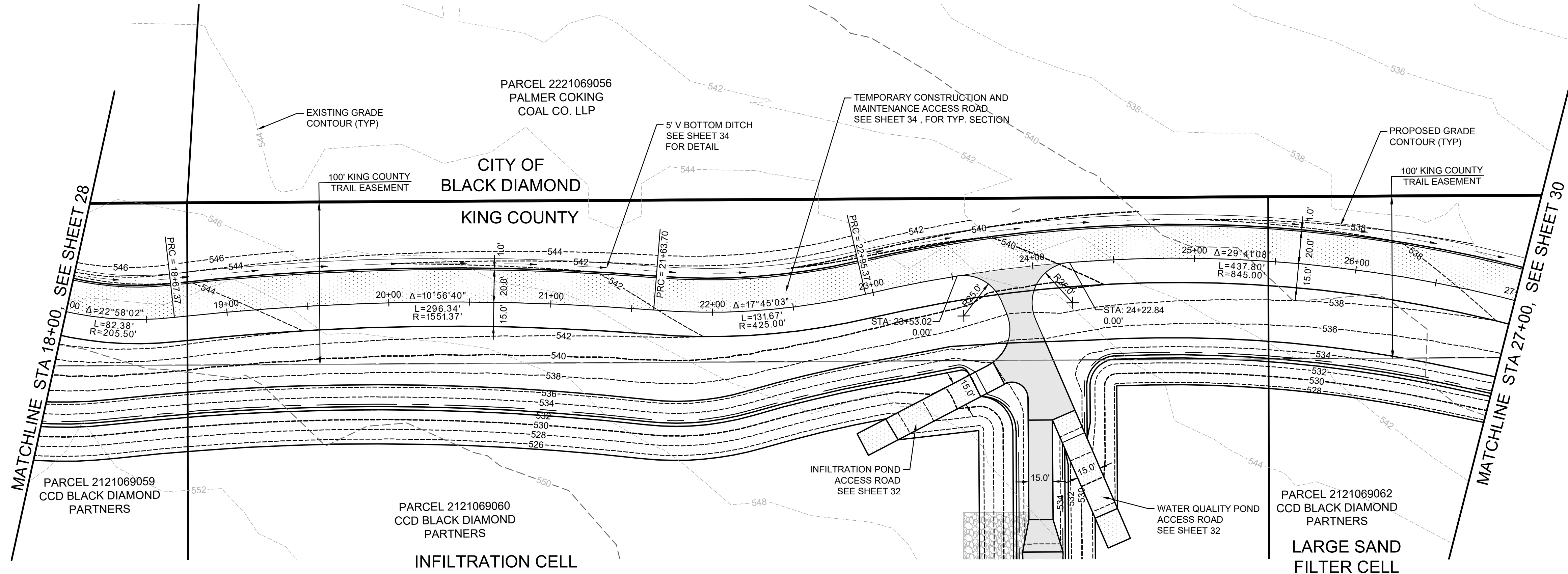
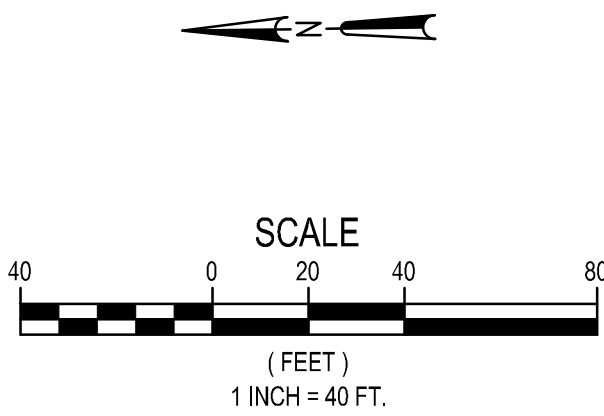


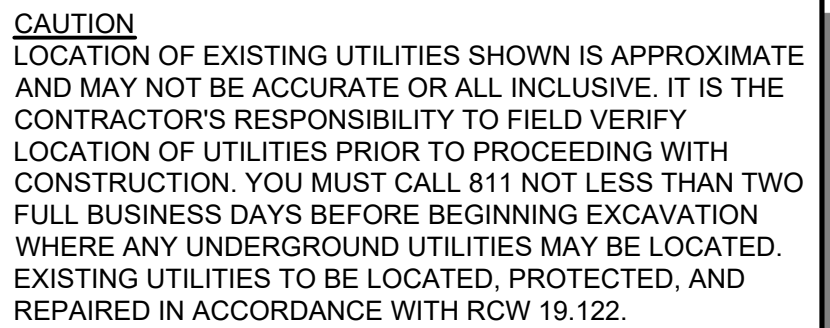
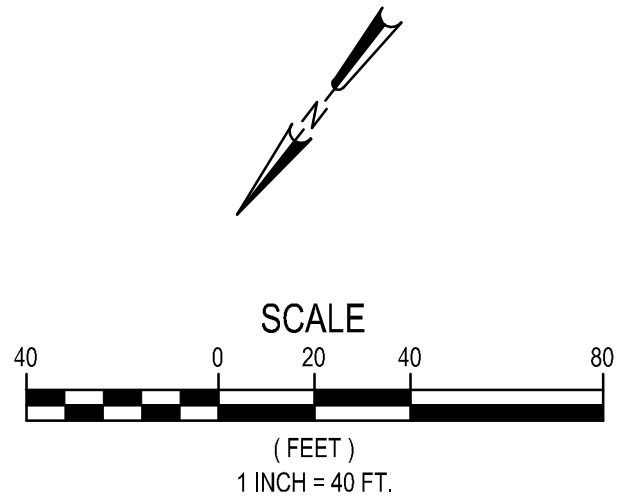
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DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.





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Save Date: 6/25/2024 1:09 PM
By: Doug Merriam
By: Dxm File: P:\O\OAKPCBDP6001\0400CAD\EC\FINAL\Ten_Trails\Phase 3\Reserve Pond\Grading_Uilities\RU-F-OAKPCBDP6001_P3RP.dwg



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Woodinville, Washington 98072
Phone: 425.415.2000

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

CONSTRUCTION DETAILS AND NOTES

WASHINGTON

KING COUNTY

DATE: BY: CK

REVIEWED BY: NO. DATE REVISION



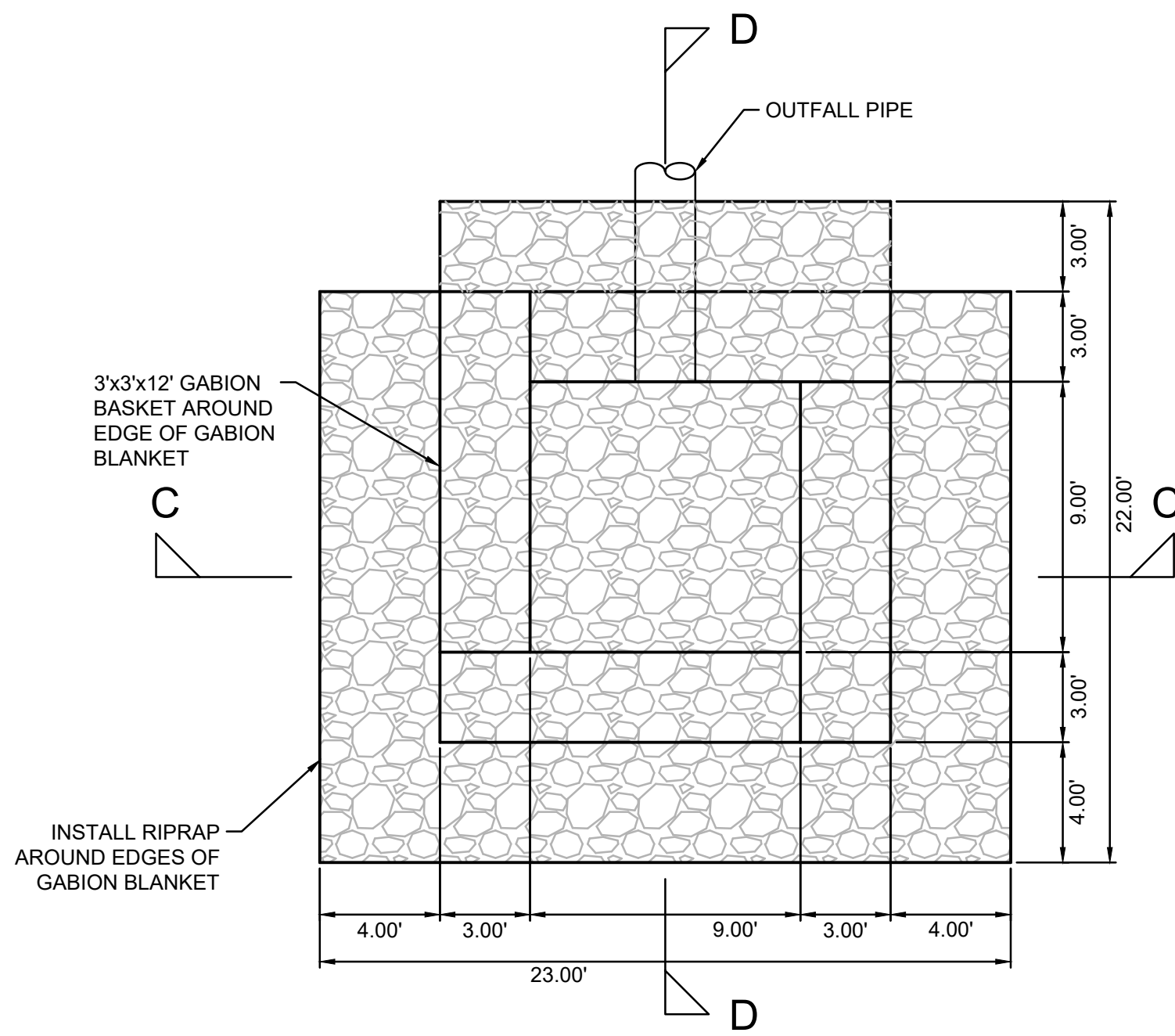
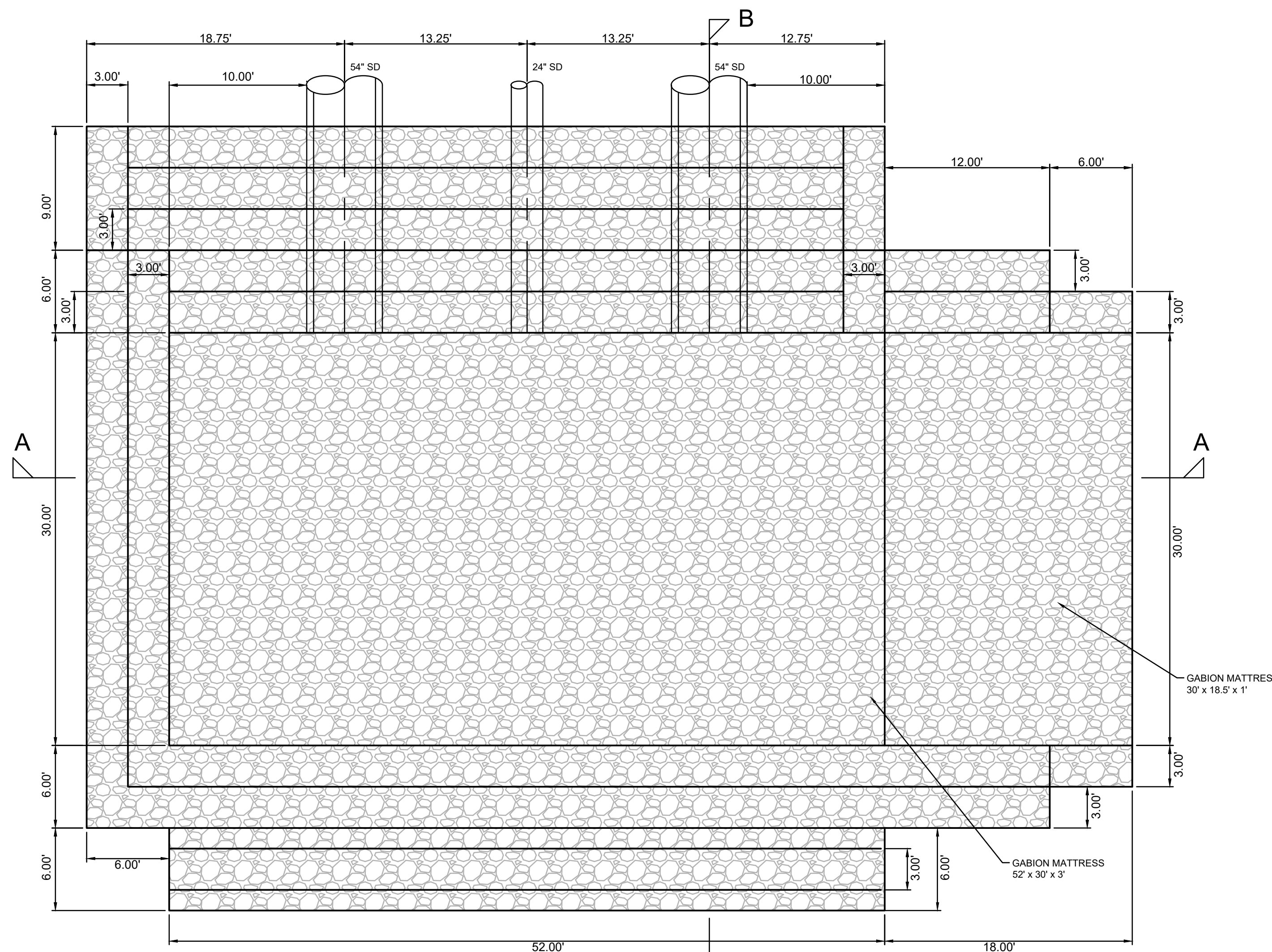
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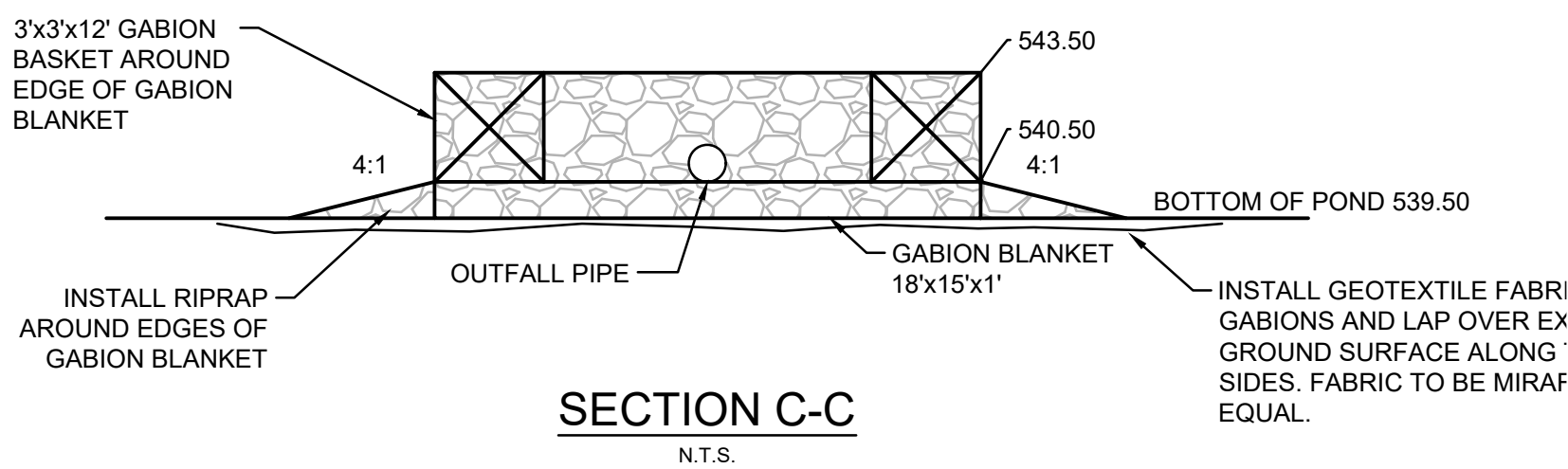
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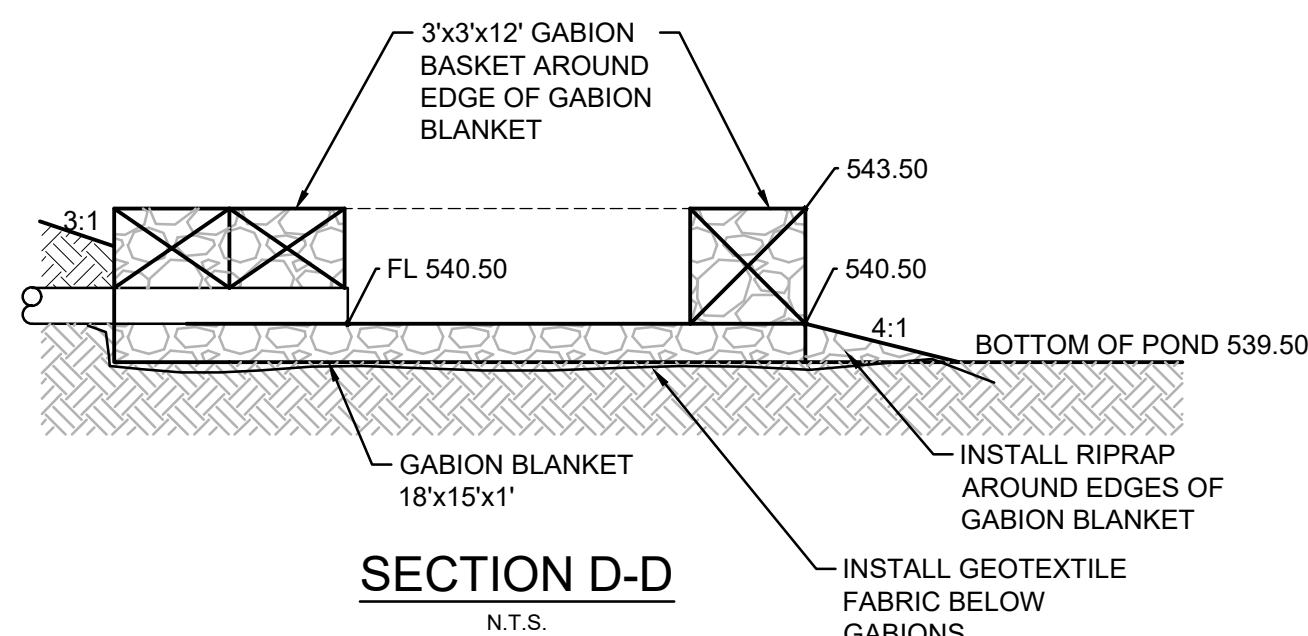
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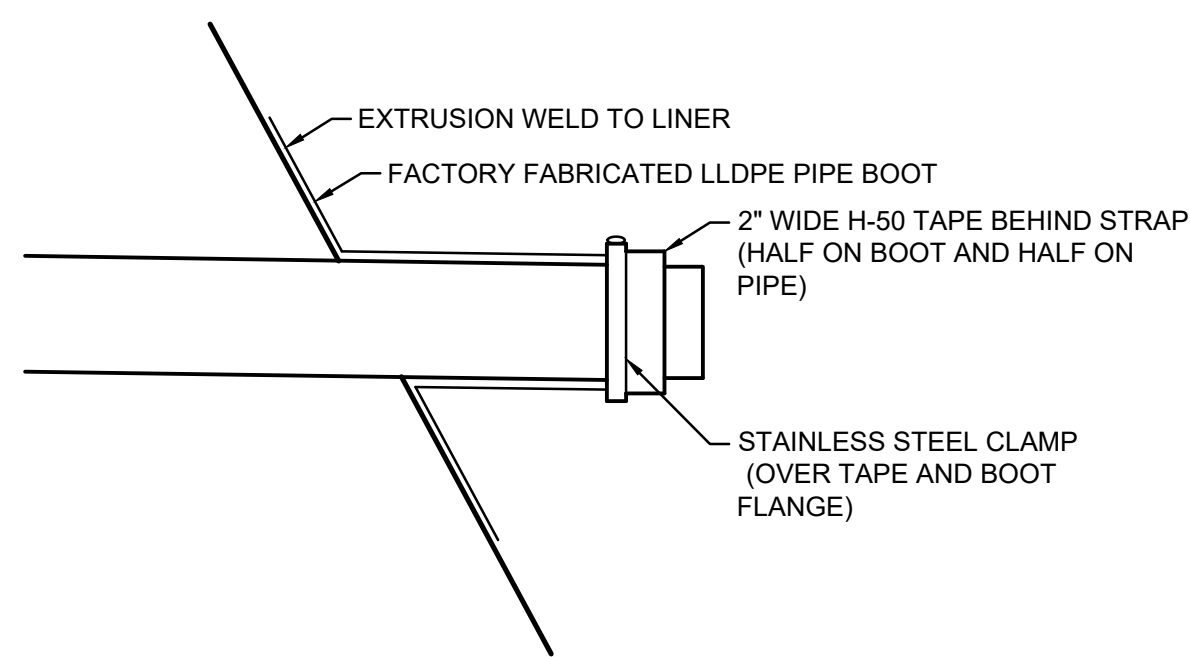
PLAN VIEW
N.T.S.



SECTION C-C
N.T.S.

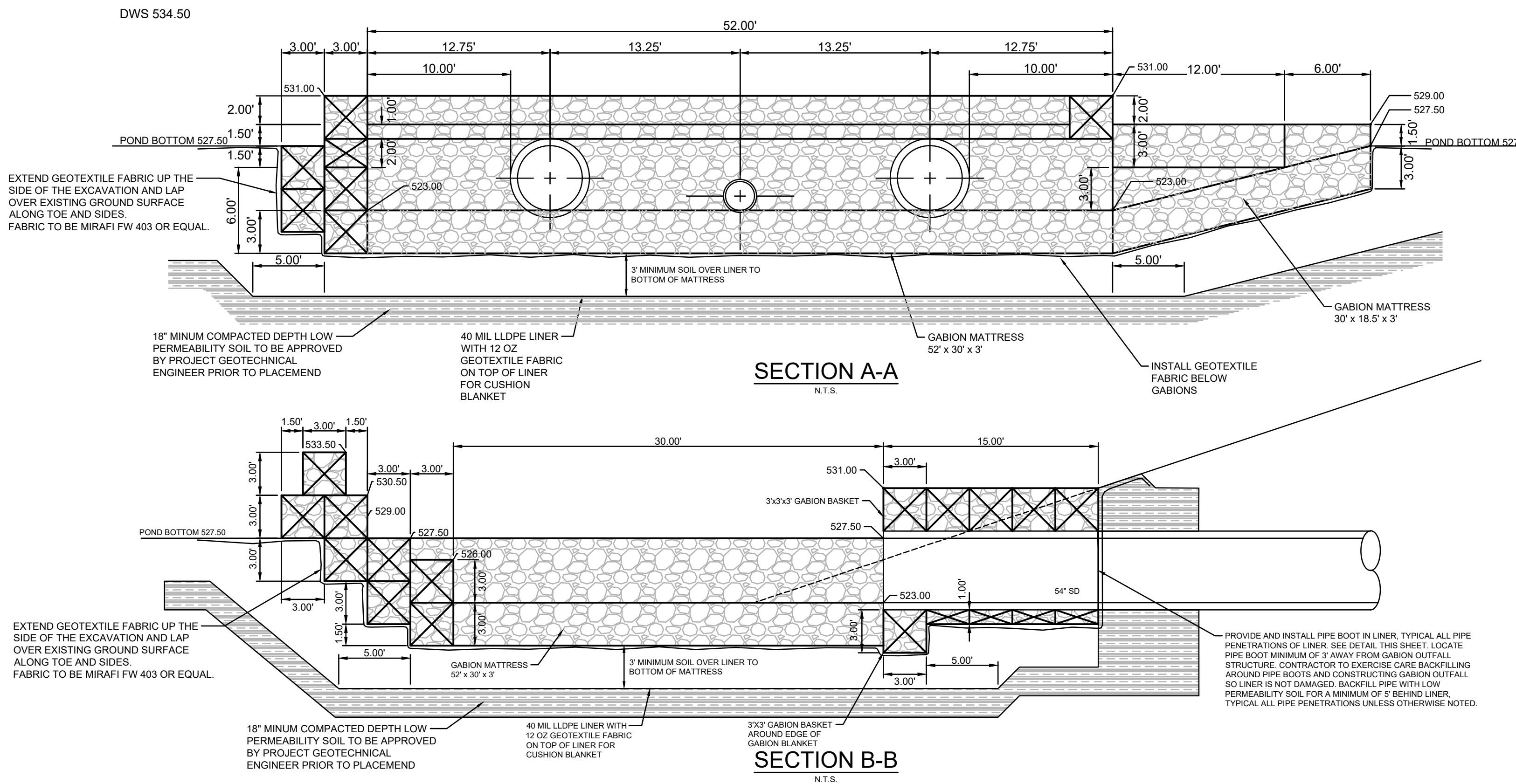


SECTION D-D
N.T.S.
HORSESHOE LAKE INFILTRATION CELL
GABION OUTFALL
N.T.S.

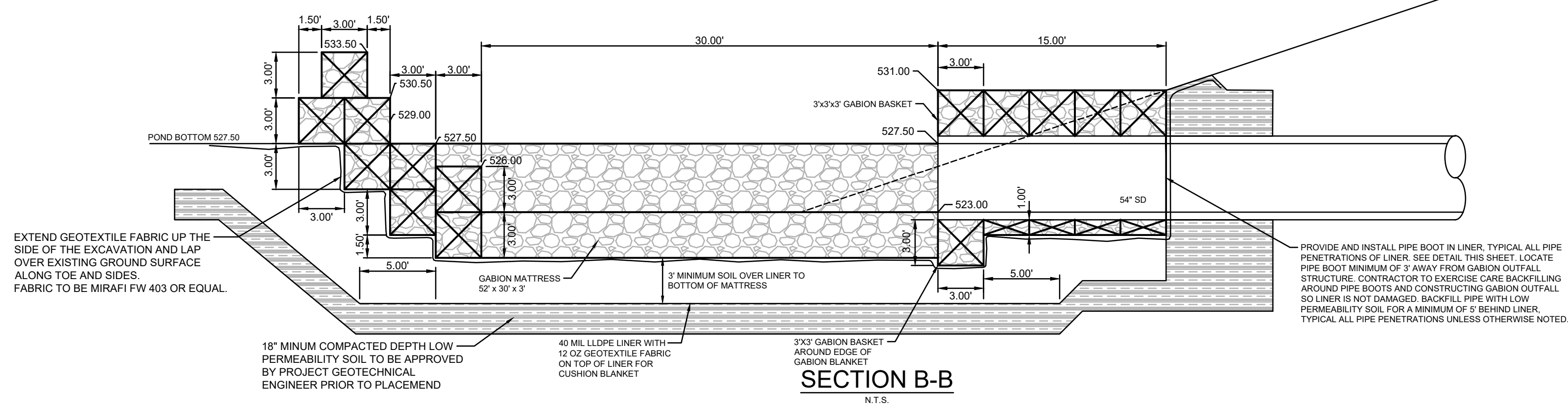


TYPICAL PIPE BOOT DETAIL
(SLOPE)
N.T.S.

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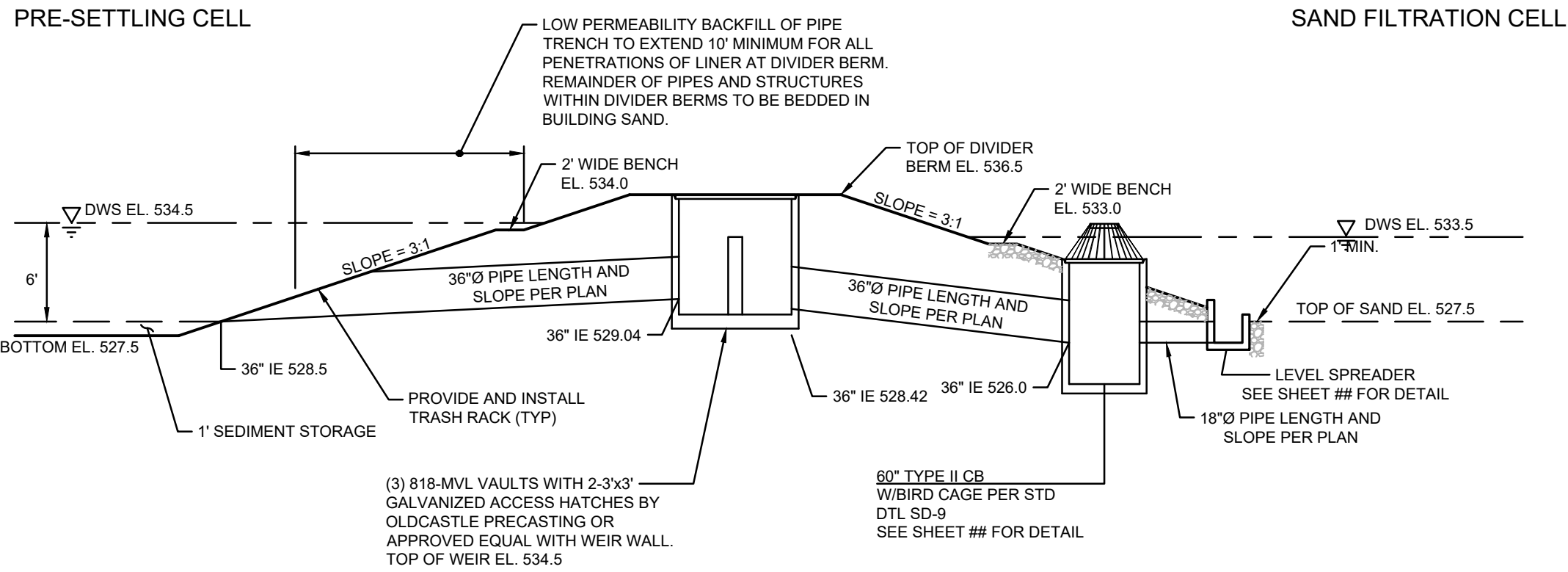
SECTION A-A
N.T.S.



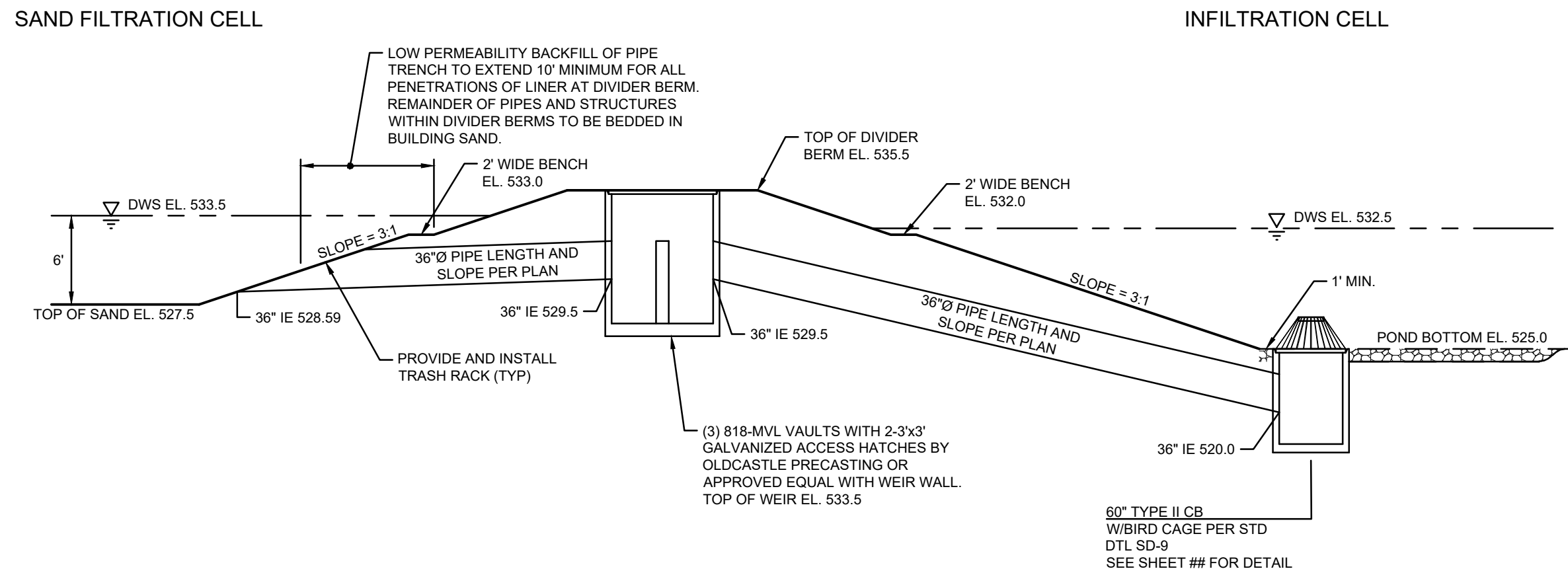
SECTION B-B
N.T.S.

MULTIPLE PIPE GABION OUTFALL
N.T.S.

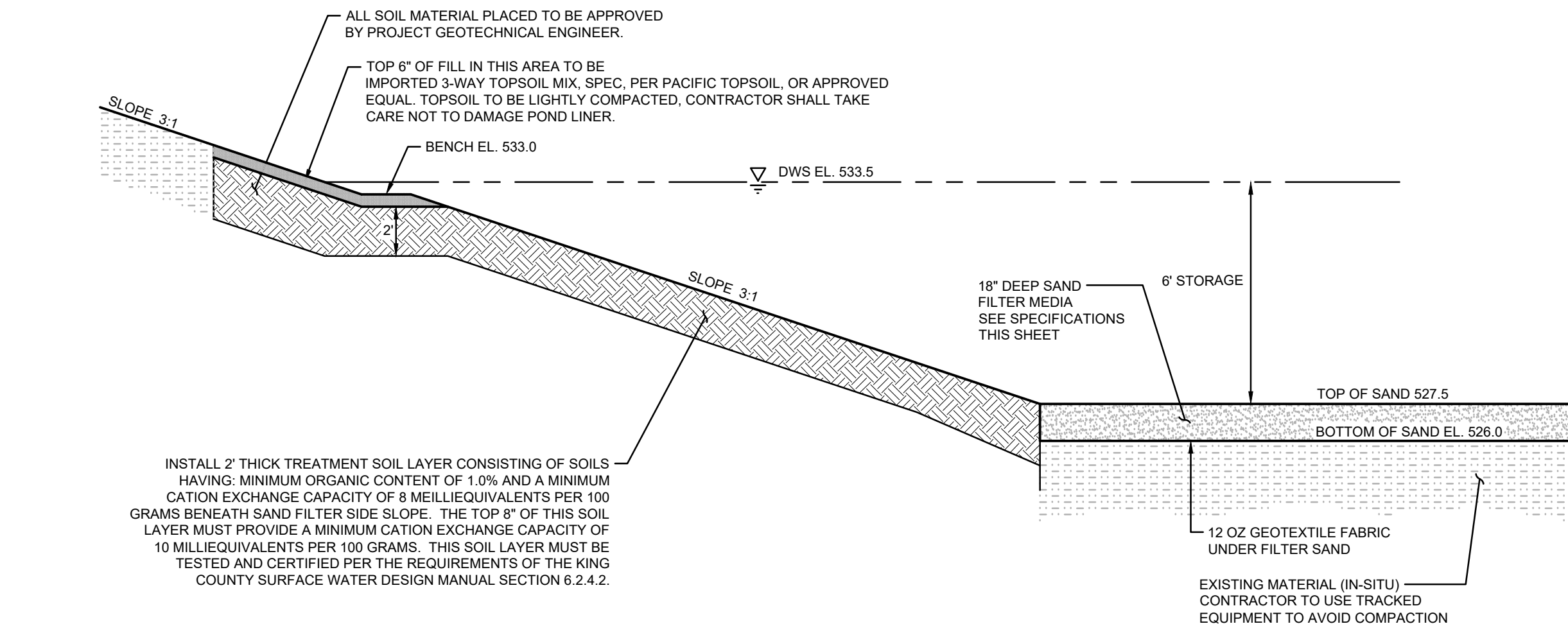
NOTE:
EXTEND GEOTEXTILE FABRIC UP THE SIDE OF THE EXCAVATION AND LAP OVER EXISTING GROUND SURFACE ALONG TOE AND SIDES. FABRIC TO BE MIRAFI FW 403 OR EQUAL.



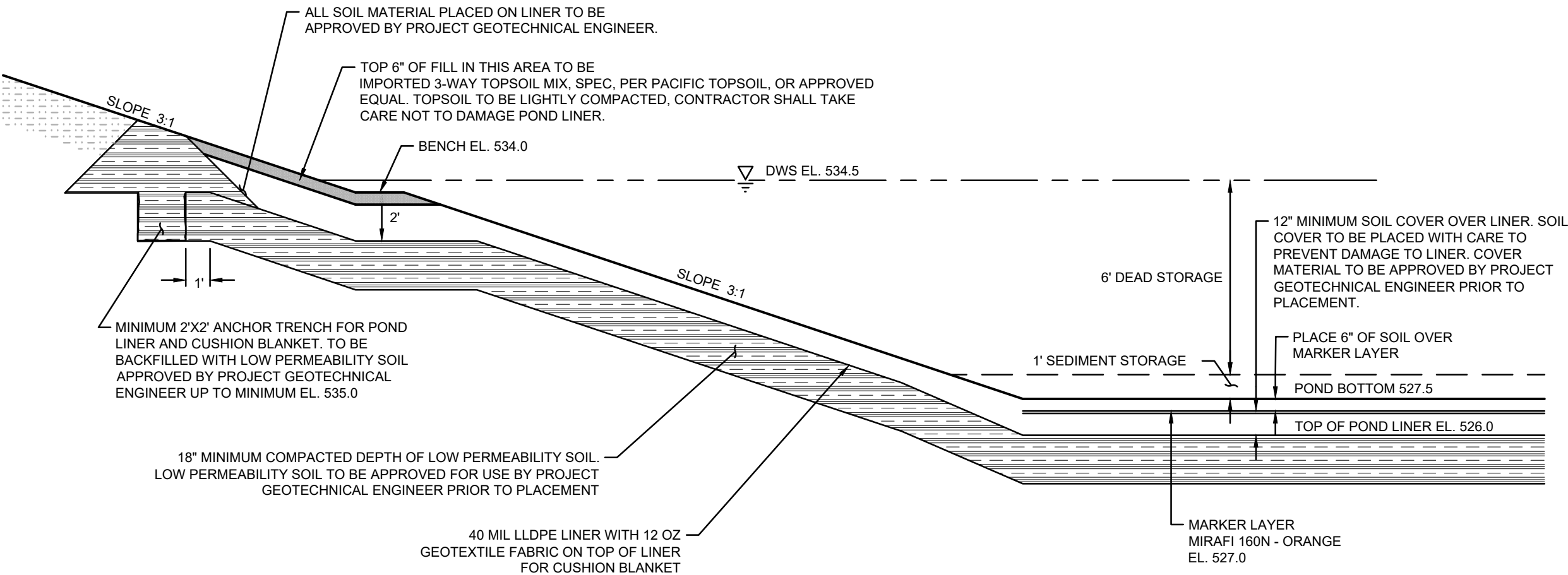
DIVIDER BERM DETAIL
N.T.S.



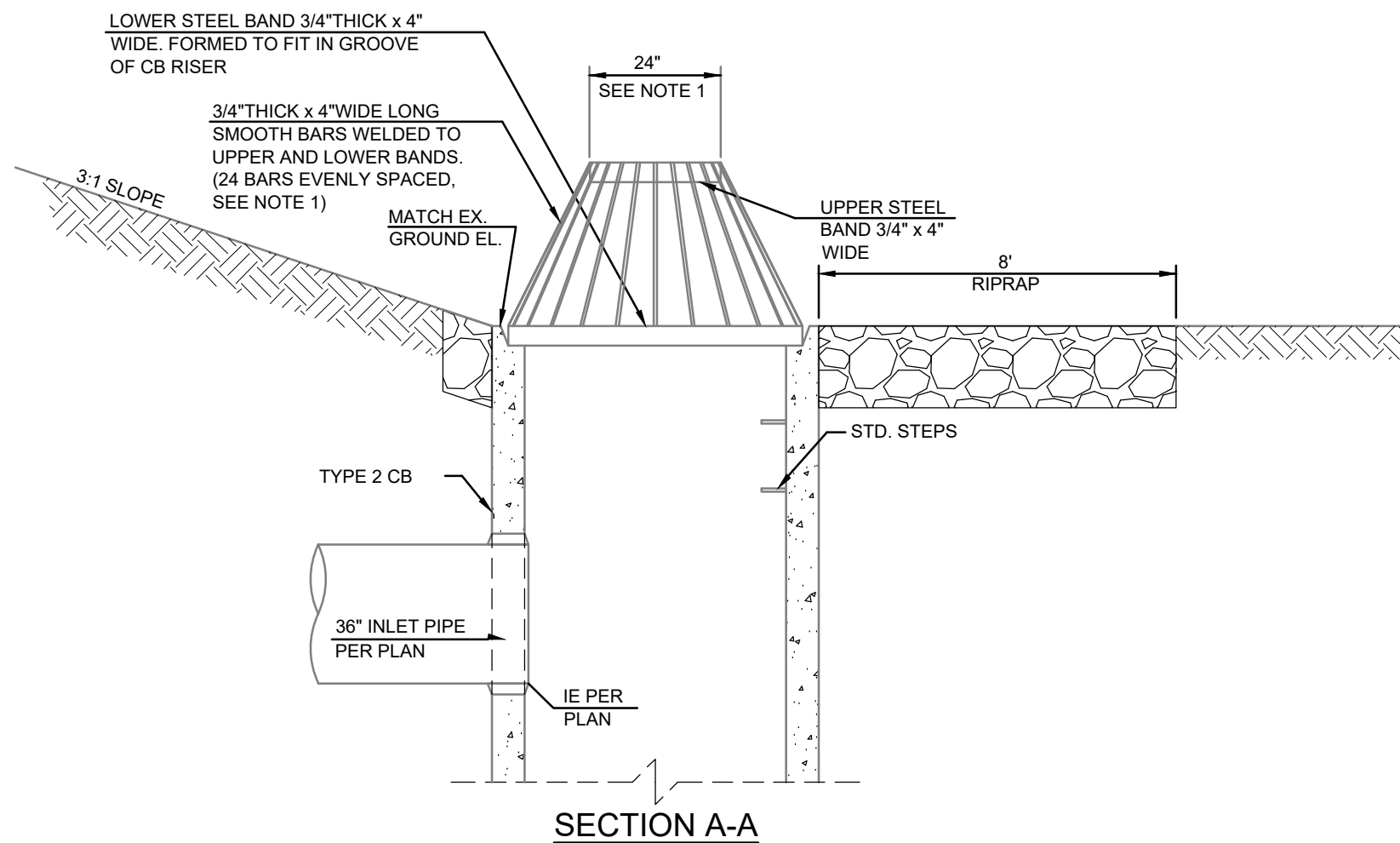
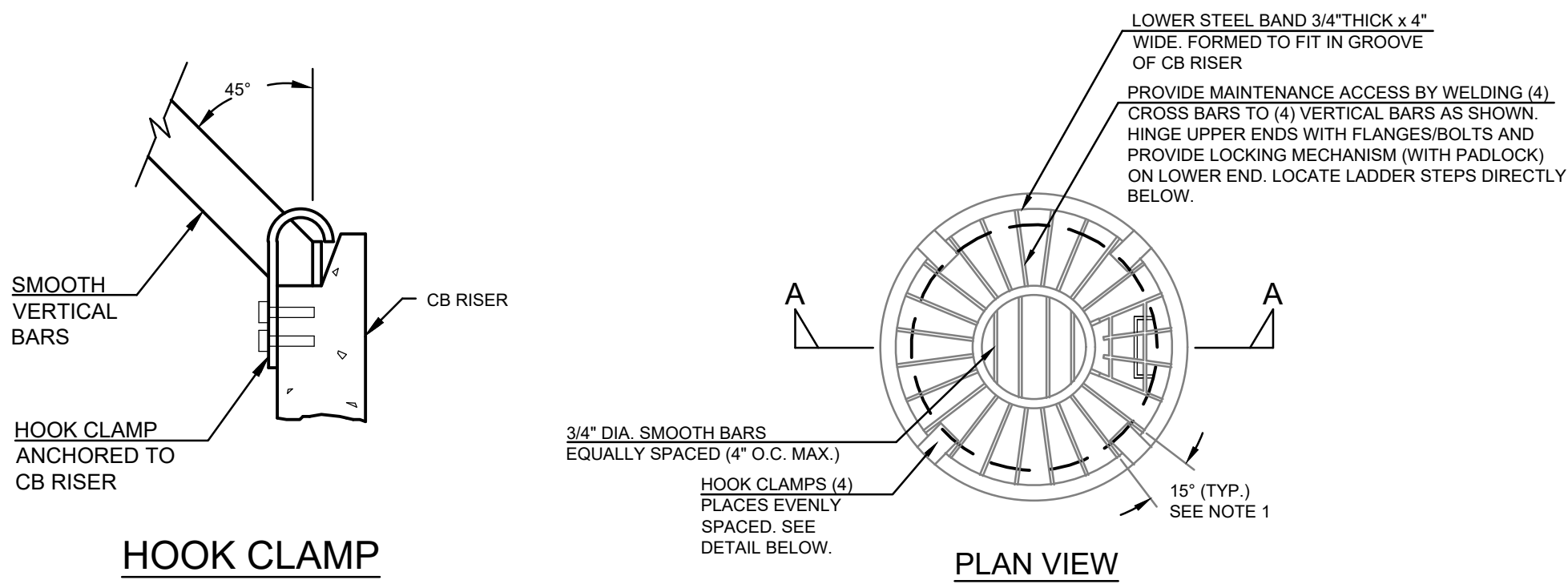
DIVIDER BERM DETAIL
N.T.S.



SAND FILTER POND LINER
N.T.S.



PRE-SETTLING POND LINER
N.T.S.



- NOTES:
- DIMENSIONS ARE FOR INSTALLATION ON 48" DIA. CB. FOR DIFFERENT DIA. CBS ADJUST DIMENSIONS TO MAINTAIN 45° ANGLE ON "VERTICAL" BARS AND 7" O.C. MAX. SPACING OF BARS AROUND LOWER STEEL BAND.
 - METAL PARTS: CORROSION RESISTANT, STEEL PARTS GALVANIZED.

OUTLET STRUCTURE FROM SAND FILTER TO INFILTRATION CELL (OVERFLOW STRUCTURE)

6.2.4.2 DESIGN CRITERIA FOR TREATMENT LINER OPTIONS

THIS SECTION PERSENTS THE DESIGN CRITERIA FOR THE ORGANIC SOIL LAYER USED AS A TREATMENT LINER.

ORGANIC SOIL LAYER

- A TWO-FOOT THICK LAYER OF SOIL WITH A MINIMUM ORGANIC MATER (OM) CONTENT OF 1.0% AND A MINIMUM CATION EXCHANGE CAPACITY (CEC) OF 8 MILLIEQUIVALENTS PER 100 GRAMS (MEQ/100G) CAN BE USED AS A TREATMENT LAYER BENEATH A WATER QUALITY OR DETENTION FACILITY. IF THE SOIL IS AMENDED OR IMPORTED, THE TOP 8 INCHES MUST HAVE A MINIMUM CATION EXCHANGE CAPACITY OF 10 MEQ/100G AND THE REMAINDER OF THE DEPTH NO LESS THAN 8 MEQ/100G. AN 18-INCH LAYER WITH THE SAME CEC AND OM PROFILE WILL SUFFICE FOR THE DITCH CONVEYANCES, BASED ON UNSATURATED FLOW AS A RESULT OF ALTERNATION WET-DRY PERIODS.
- TO DEMONSTRATE THAT IN-PLACE SOILS MEET THE ABOVE CRITERIA, ONE SAMPLE PER 1,000 SQUARE FEET OF FACILITY AREA, OR 500 LINEAL FEET OF DITCH, AND NO FEWER THAN THREE SAMPLES SHALL BE TESTED. EACH SAMPLE SHALL BE A COMPOSITE OF EQUALLY SPACE SUBSAMPLES TAKES THROUGHOUT THE FULL EXTENT OF THE TREATMENT LAYER DEPTH (USUALLY TWO TO SIX FEET BELOW THE EXPECTED FACILITY INVERT FOR FACILITIES), EXCEPT STRATIFIED COMPOSITE SAMPLING IS REQUIRED WHERE THE TOP 8 INCHES ARE REQUIRED TO MEET A HIGHER CEC LEVEL(COMPOSITE OF TOP EIGHT INCHES AND SEPARATE COMPOSITE OF THE REMAINDER BELOW).
- ORGANIC CONTENT SHALL BE MEASURED ON A DRY WEIGHT BASIS USING ASTM D2974.
- CATION EXCHANGE CAPACITY (CEC) SHALL BE TESTED ACCORDING TO REFERENCE 12-A, MEASURING CATION EXCHANGE CAPACITY.
- CERTIFICATION BY A SOILS TESTING LABORATORY THAT IMPORTED SOILS MEETS THE ORGANIC CONTENT AND CEC CRITERIA ABOVE SHALL BE PROVIDED TO THE LOCAL APPROVAL AUTHORITY.
- SOIL AMENDMENT MAY ONLY BE COMPOSTED MEETING THE REQUIREMENTS OF REFERENCE 11-C. COMPOST FOR APPLICATION OF THIS REQUIREMENT IN STORMWATER TREATMENT WETLANDS MUST BE SPECIFICATION 1 COMPOST DETAILED IN REFERENCE 11-C.
- IF A TREATMENT LINER WILL BE BELOW THE SEASONAL HIGH WATER LEVEL, THE POLLUTANT REMOVAL PERFORMANCE OF THE LINER MUST BE EVALUATED BY A GEOTECHNICAL OR GROUND WATER SPECIALIST AND FOUND TO BE AS PROTECTIVE AS IF THE LINER WARE ABOVE THE LEVEL OF THE GROUND WATER.

SAND MEDIA SPECIFICATIONS	
U.S. SIEVE SIZE	PERCENT PASSING
U.S. No. 4	95 to 100 PERCENT
U.S. No. 8	70 to 100 PERCENT
U.S. No. 16	40 to 90 PERCENT
U.S. No. 30	25 to 75 PERCENT
U.S. No. 50	2 to 25 PERCENT
U.S. No. 100	LESS THAN 4 PERCENT
U.S. No. 200	LESS THAN 2 PERCENT

SAND FILTER SPECIFICATIONS

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THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY

CONSTRUCTION DETAILS AND NOTES

WASHINGTON

KING COUNTY

REVIEWED BY: NO. DATE REVISION

DATE: BY: OK



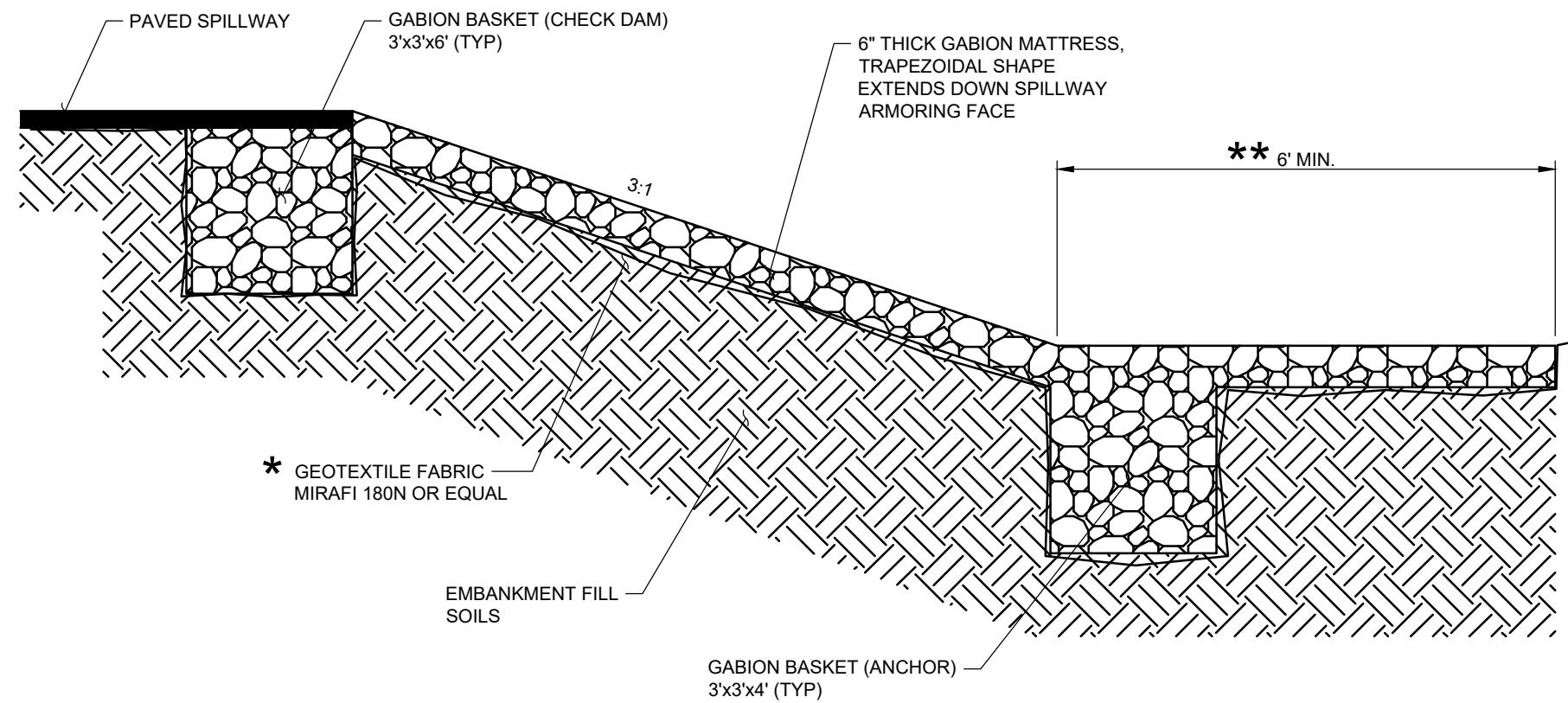
11/14/2024

CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

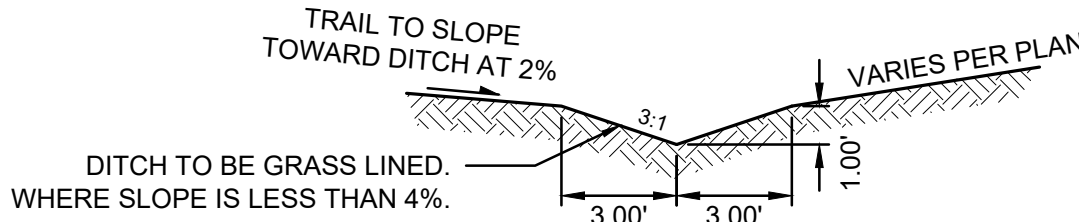
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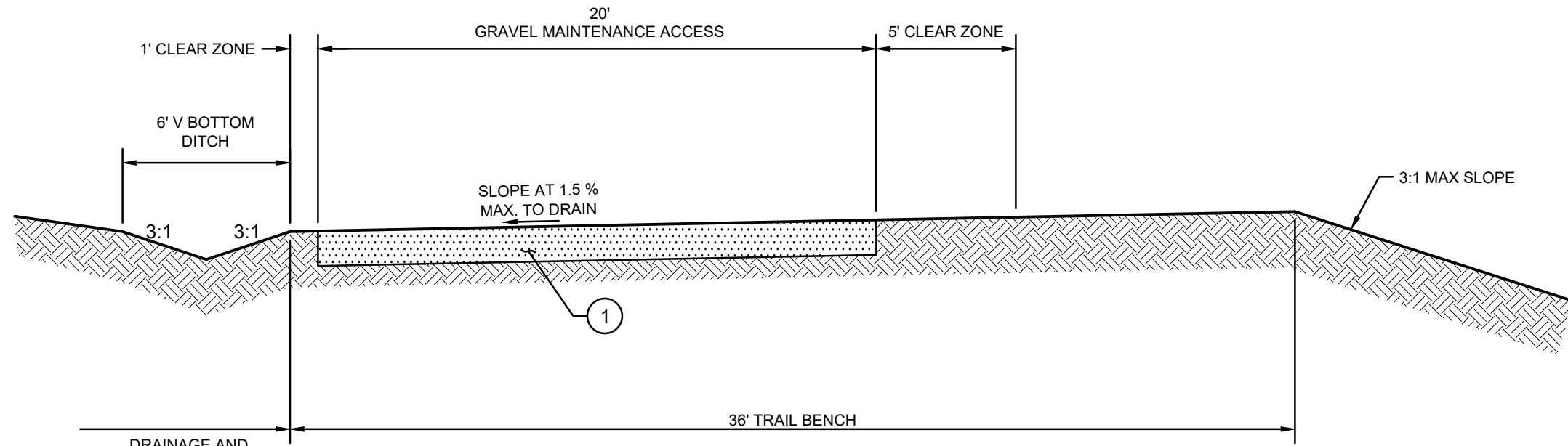


- * FILTER FABRIC MUST COVER ALL EXPOSED SOIL SURFACES ADJACENT TO THE GABIONS, BOTH HORIZONTAL AND VERTICAL SURFACES. FILTER FABRIC MUST EXTEND BENEATH ASPHALT SURFACE.
- ** GABION MATTRESS APRON MUST EXTEND A MINIMUM OF 6 FEET BEYOND ANCHOR GABIONS ONTO NATURAL GROUND.

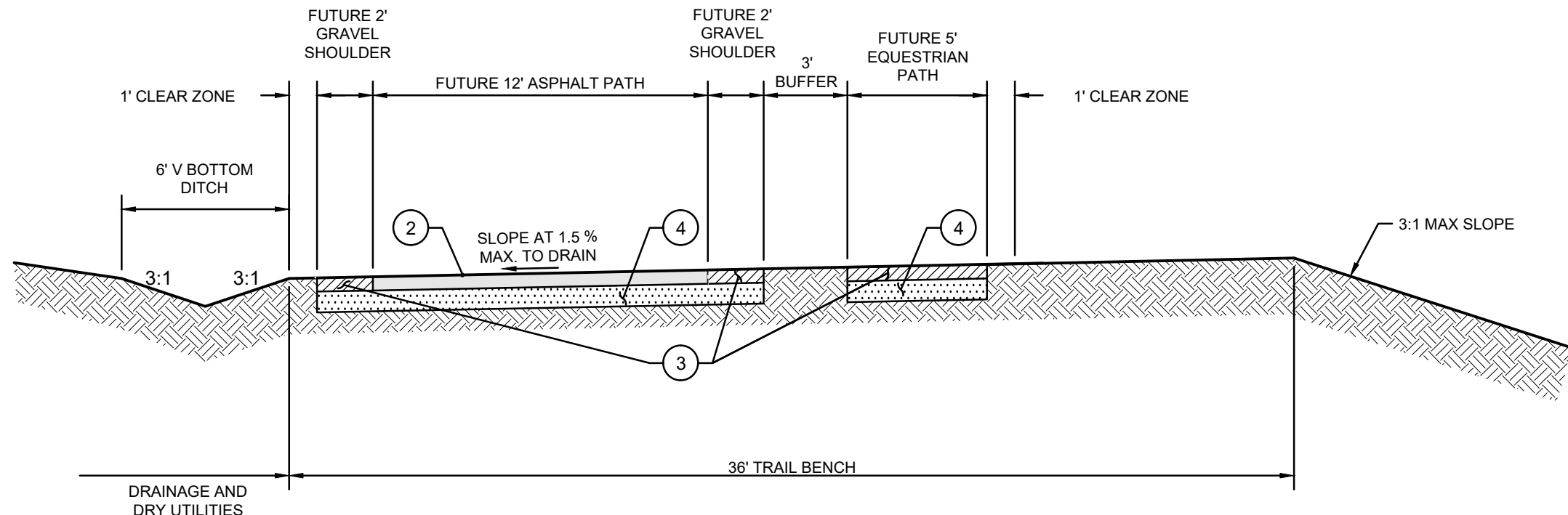
POND SPILLWAY ARMOR
NOT TO SCALE



V-BOTTOMED DITCH DETAIL
NOT TO SCALE

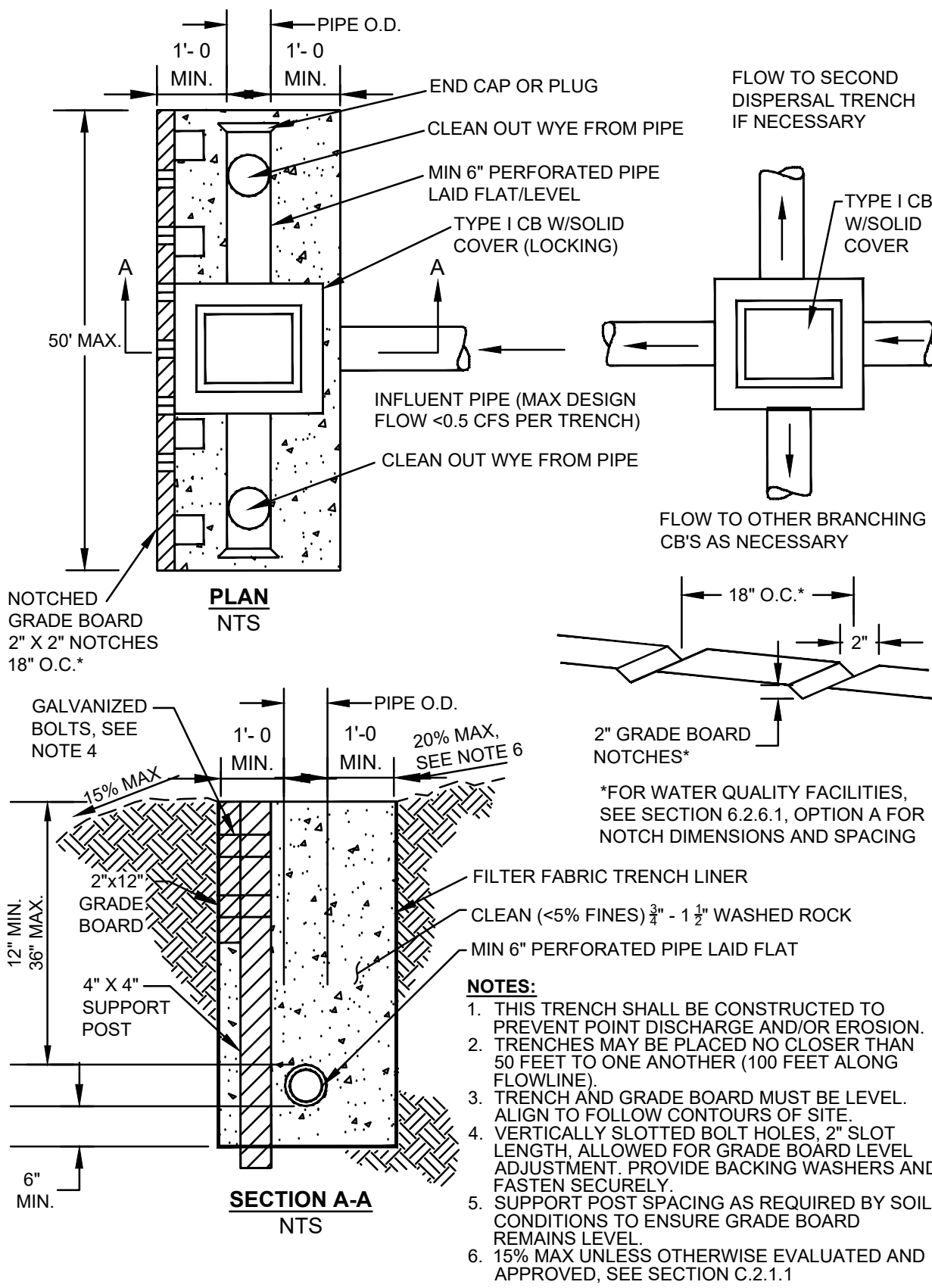


TEMPORARY CONSTRUCTION
AND MAINTENANCE ACCESS
HORZ. SCALE: 1" = 5'
VERT. SCALE: NTS
① 8" OF 5/8" MINUS CRUSHED LEDGE ROCK,
100% FRACTURED (COMPACTED)

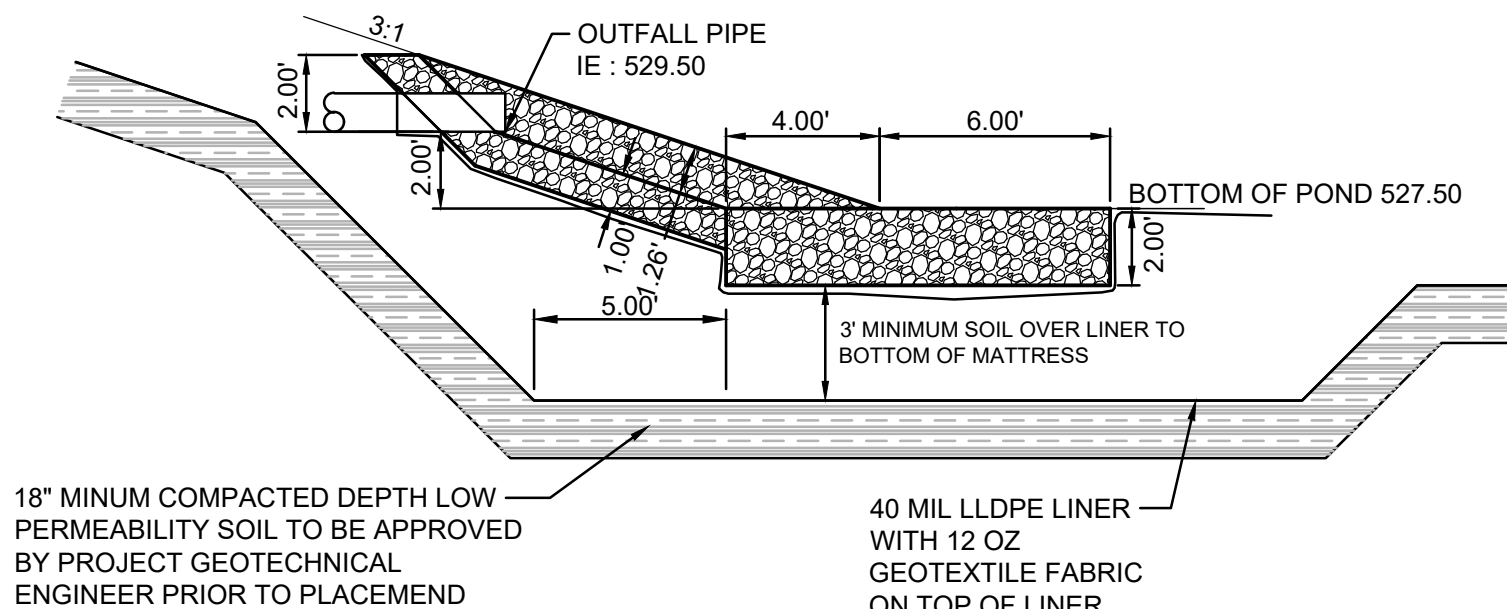


FUTURE WEST
TRAIL SECTION
HORZ. SCALE: 1" = 5'
VERT. SCALE: NTS
② 4" OF HMA CL. 3/8" PG. 64-22 (COMPACTED)
③ 4" OF 5/8" MINUS CRUSHED LEDGE ROCK,
100% FRACTURED (COMPACTED)
④ 6" OF CRUSHED SURFACING BASE COURSE
(COMPACTED)

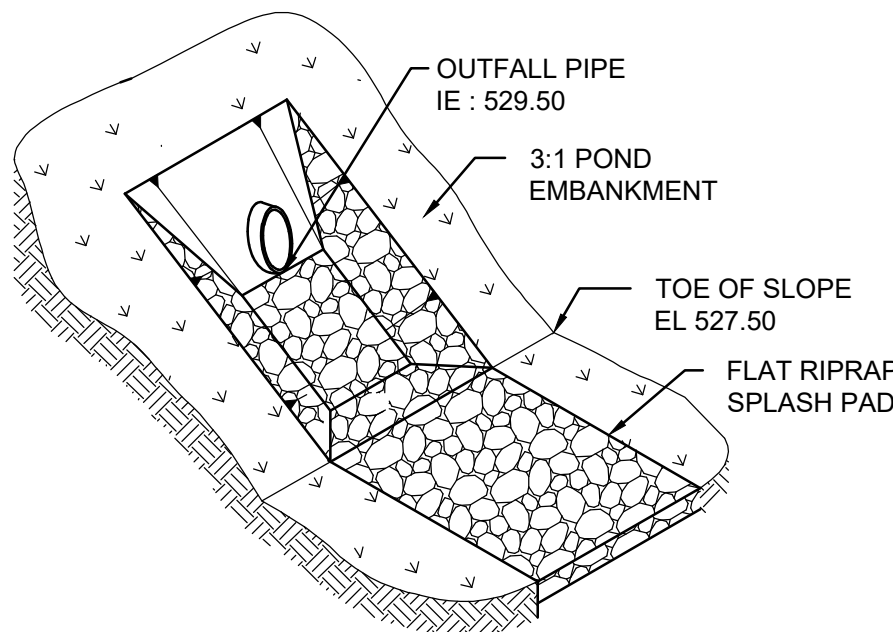
NOTE: OWNER MAY ELECT TO CONSTRUCT
ITEMS LABELED "FUTURE" ON THIS SECTION



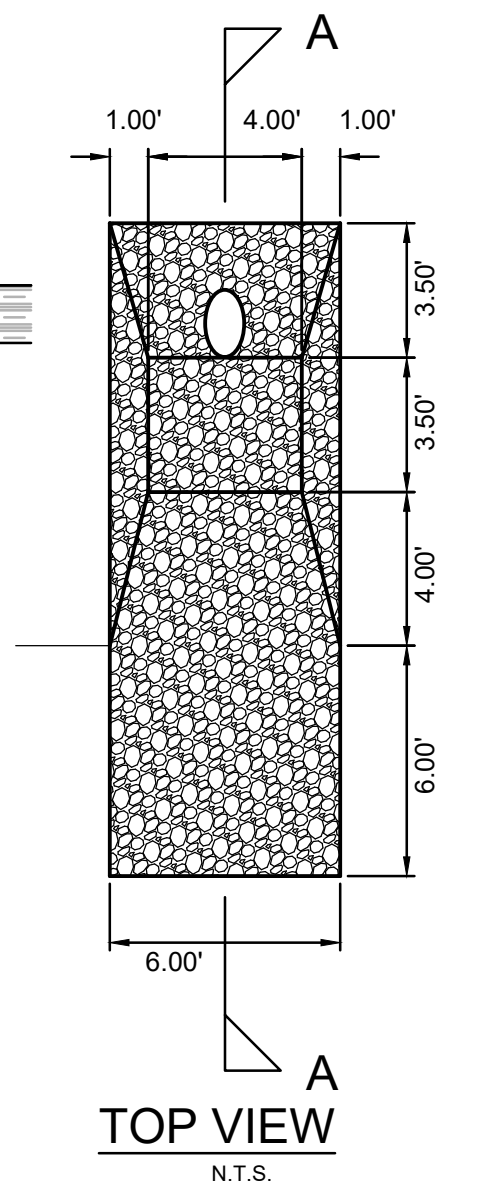
FLOW DISPERSAL TRENCH
NOT TO SCALE



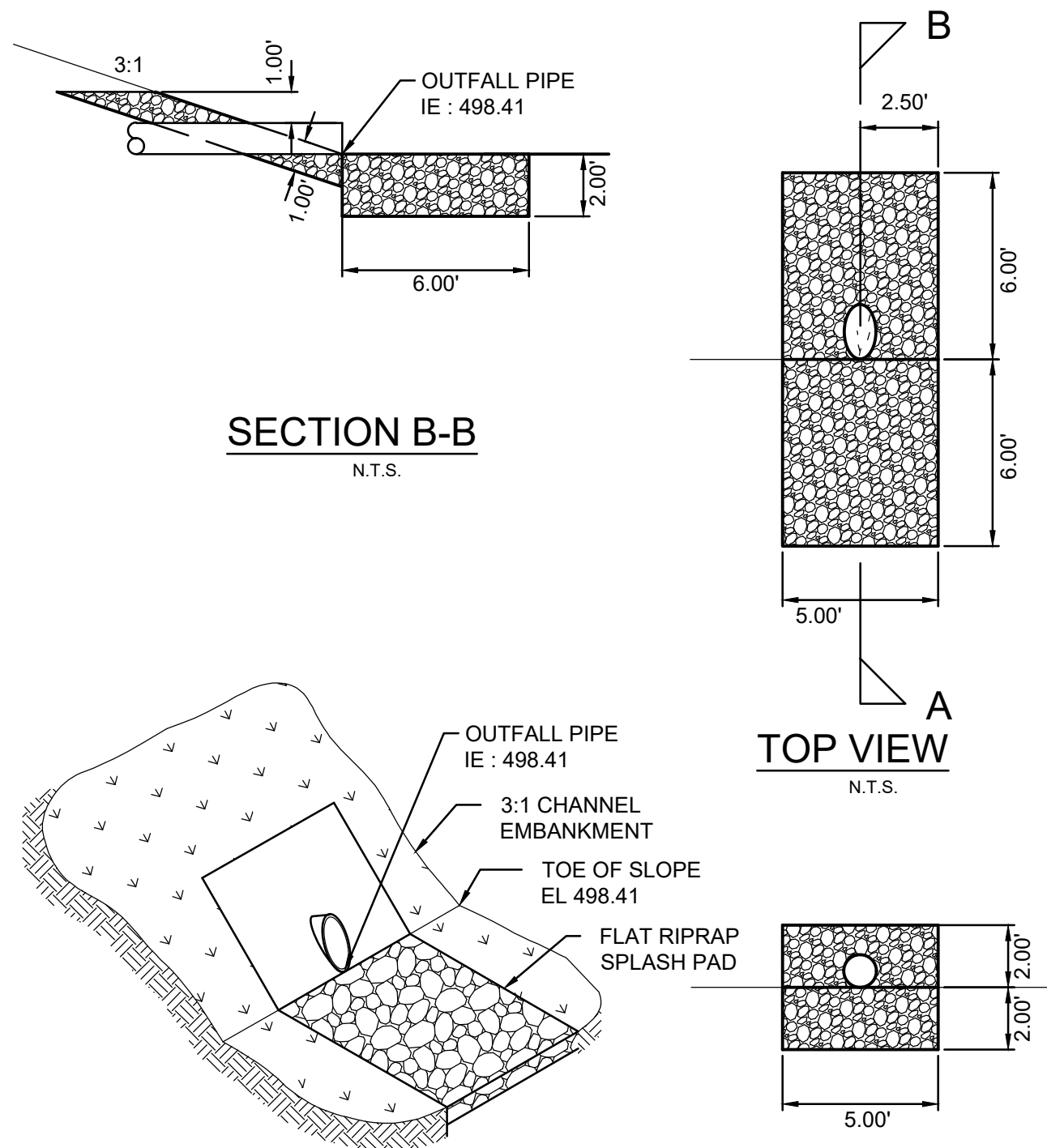
SECTION A-A
N.T.S.



RIPRAP EMBANKMENT
PROTECTION DETAIL
AT POND
N.T.S.



FRONT VIEW
N.T.S.



FRONT VIEW
N.T.S.

RIPRAP EMBANKMENT
PROTECTION DETAIL
AT CHANNEL
N.T.S.

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CONSTRUCTION DETAILS AND NOTES

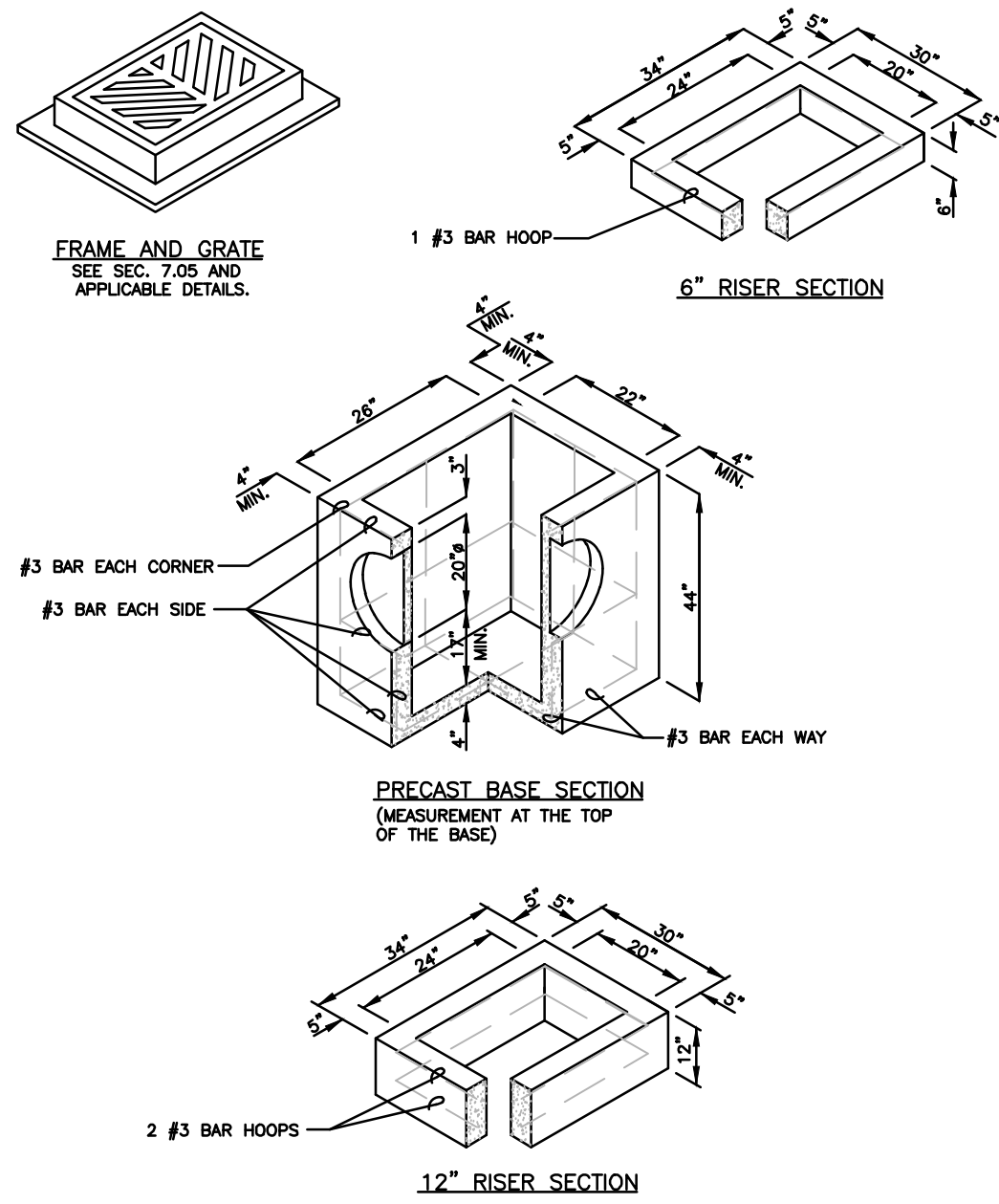
KING COUNTY

WASHINGTON

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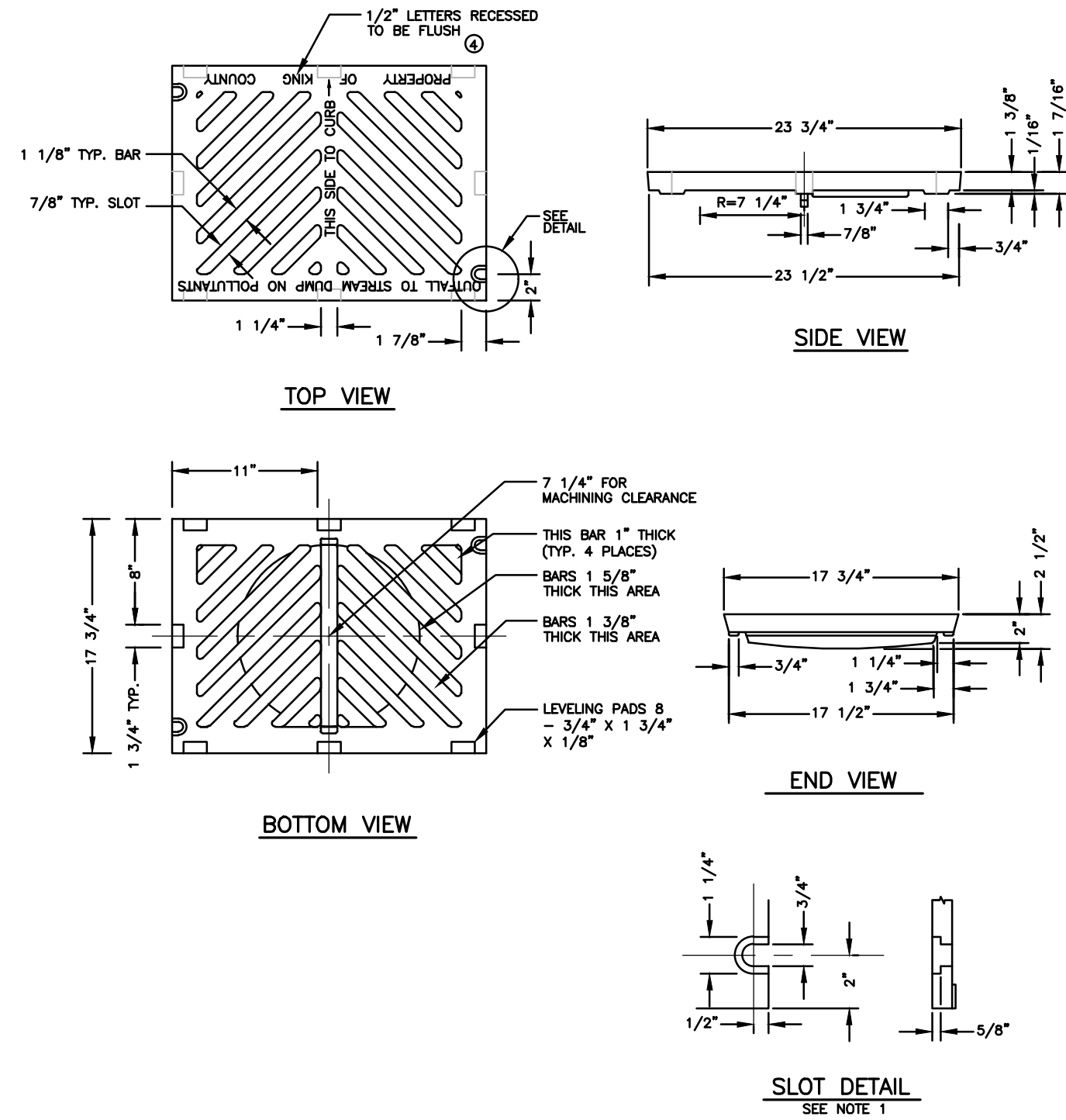


NOTES:

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQ. IN. PER FT. MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2 IN. MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNSET KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20 IN. KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5 FT.
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-402E. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DWG. 8-5.60-01.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2 IN. FROM VERTICAL EDGE OF CATCH BASIN WALL.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

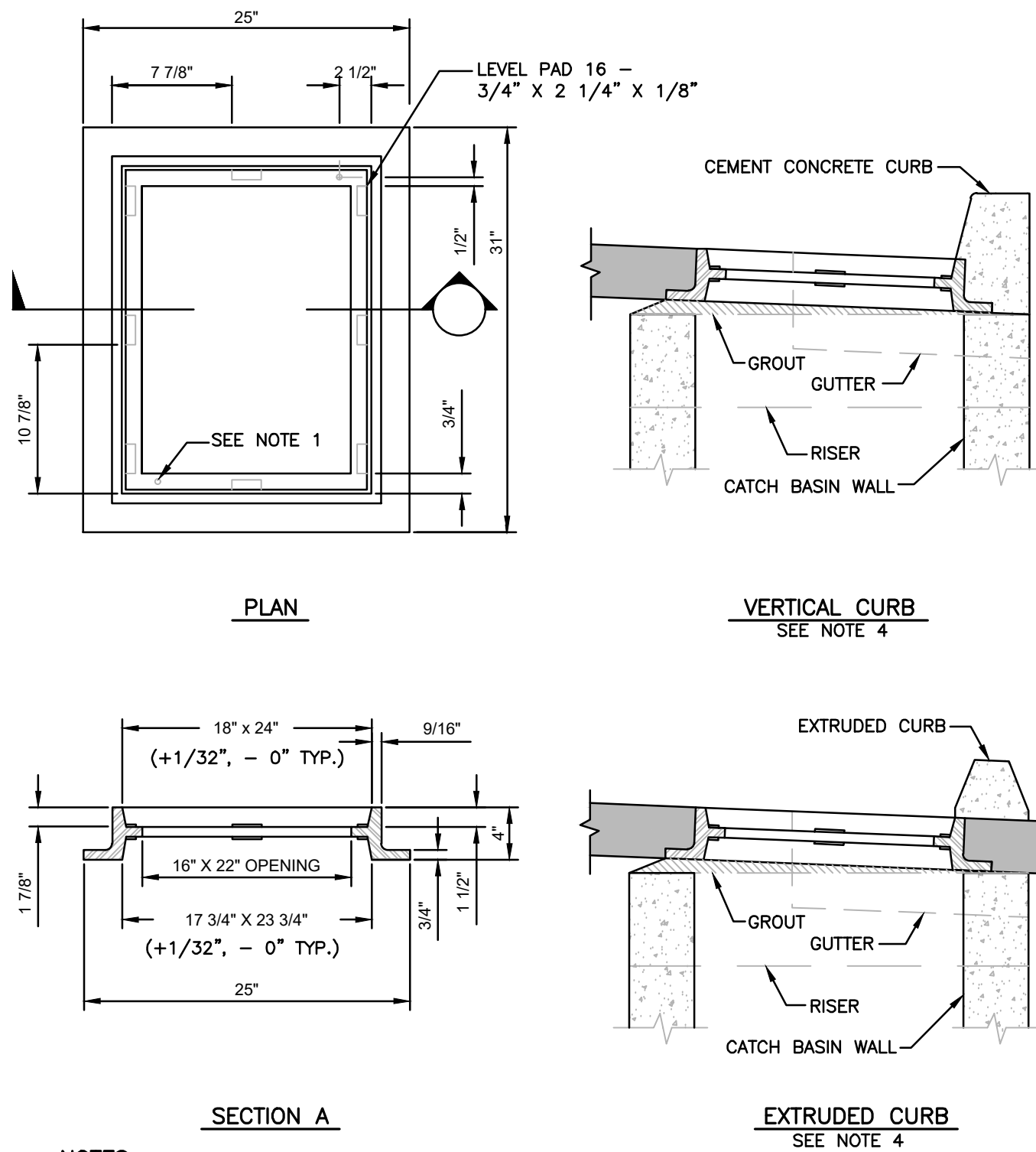
NOTES:

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- HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE FIG. NO. 7-006, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE MANHOLE.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2 IN. MIN. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS. MAX. HOLE SIZE SHALL BE 36 IN. FOR 48 IN. CATCH BASIN, 42 IN. FOR 54 IN. C.B., 48 IN. FOR 60 IN. C.B., 60 IN. FOR 72 IN. C.B., 64 IN. FOR 96 IN. C.B. MIN. DISTANCE BETWEEN HOLES SHALL BE 8 IN. FOR 48 IN., 54 IN., AND 60 IN. C.B.; 12 IN. FOR 72 IN. AND 96 IN. C.B.
- CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC. 7.05 AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-6021E. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1 IN. MIN. CLEARANCE.
- MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
- FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE FIG. 7-006.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 7-05.3 FOR JOINT REQUIREMENTS.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.



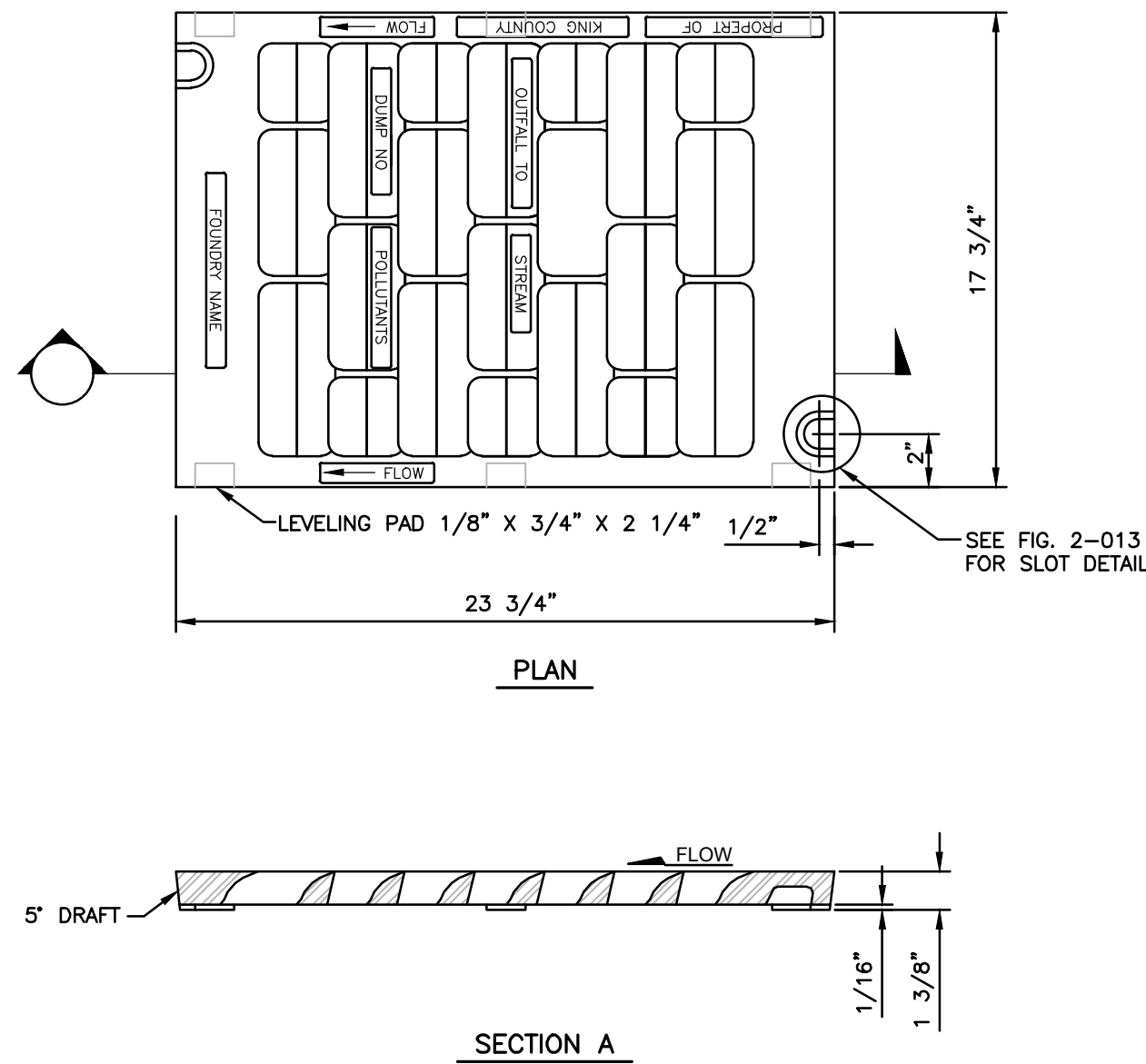
NOTES:

- SLOT FORMED AND RECESSED FOR 5/8 IN.-11 NC X 2 IN. SOCKET HEAD (ALLEN HEAD) CAP SCREW.
- GRATE SHALL BE CAST IRON PER ASTM A48 CLASS 30 UNLESS OTHERWISE SPECIFIED.
- SEE SEC. 7.05.
- THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
- GRATES SHALL BE MIN 32 IN. CLEAR OF WHERE WHEELCHAIR RAMPS ARE FLUSH WITH PAVEMENT.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.



NOTES:

- DRILL AND TAP FOR, AND PROVIDE, TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG WHEN USED WITH SOLID COVER (FIG. 7-015) OR WHEN SPECIFIED BY ENGINEER.
- FRAME MATERIAL IS DUCTILE IRON PER ASTM A48 CLASS 30.
- SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
- SEE SEC. 7.05.
- SEE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.



NOTES:

- SELF-LOCK VANED GRATE MANUFACTURER SUBJECT TO APPROVAL BY ENGINEER.
- USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG. NOTE SLOT DETAIL.
- MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
- "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
- SEE SEC. 7.05.
- THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

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THE RESERVE AT WOODLANDS
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CONSTRUCTION DETAILS AND NOTES

WASHINGTON

KING COUNTY

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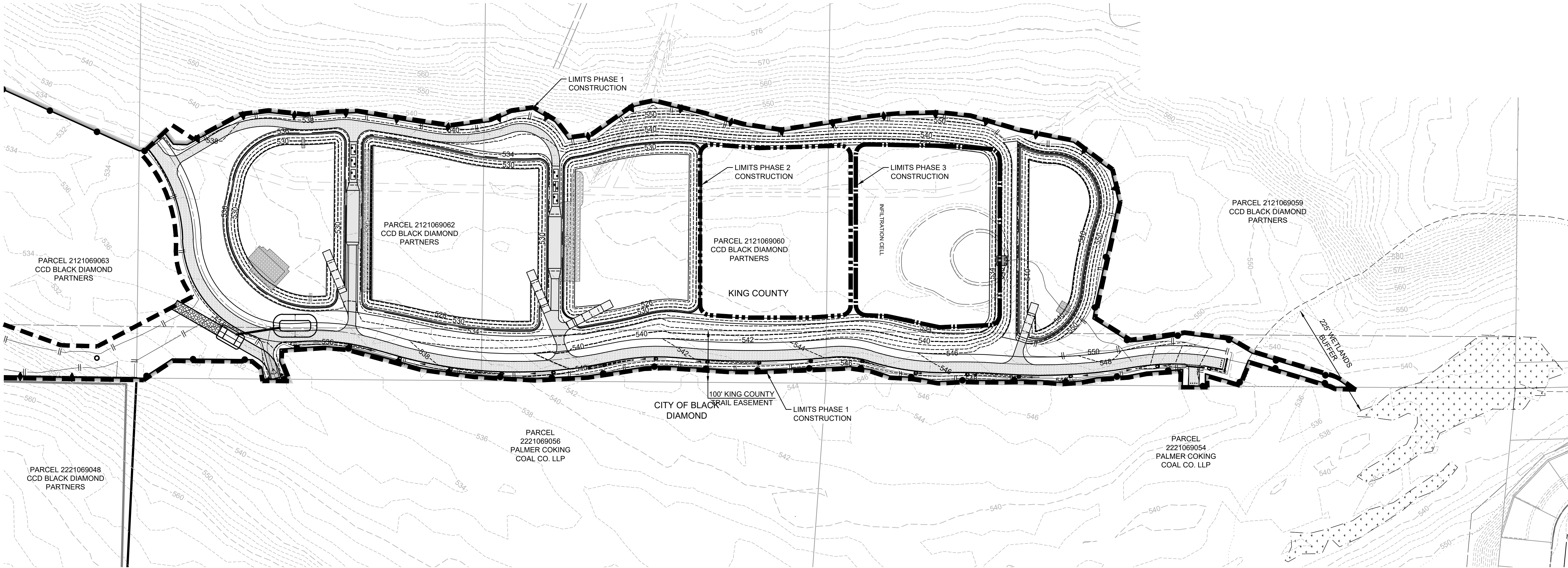
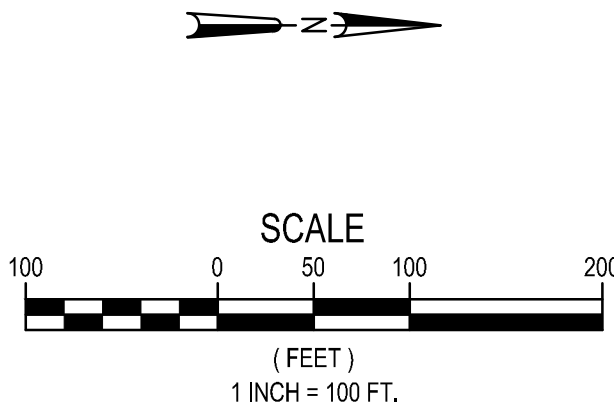
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THE RESERVE AT WOODLANDS
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CONSTRUCTION PHASING PLAN

WASHINGTON

KING COUNTY

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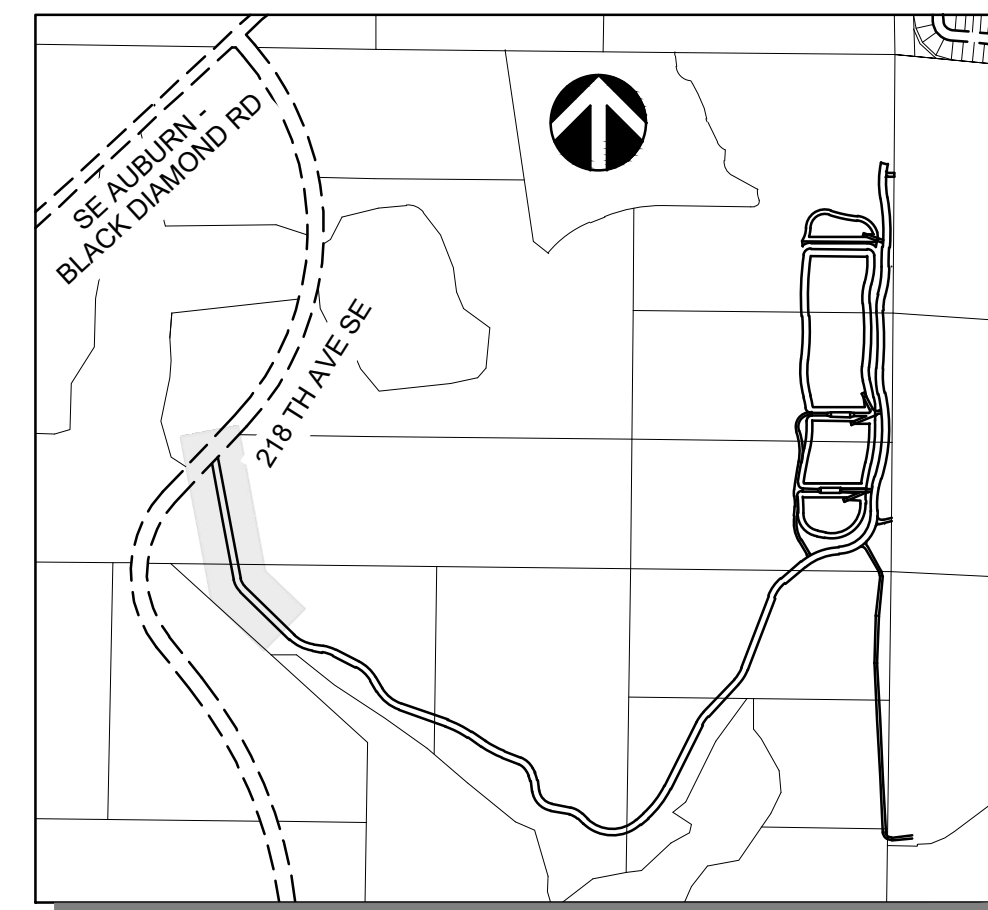
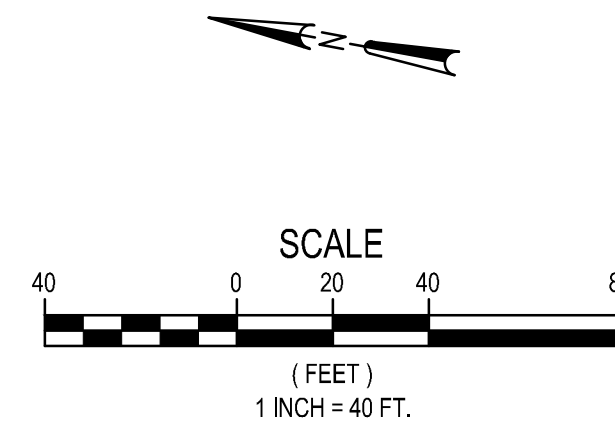


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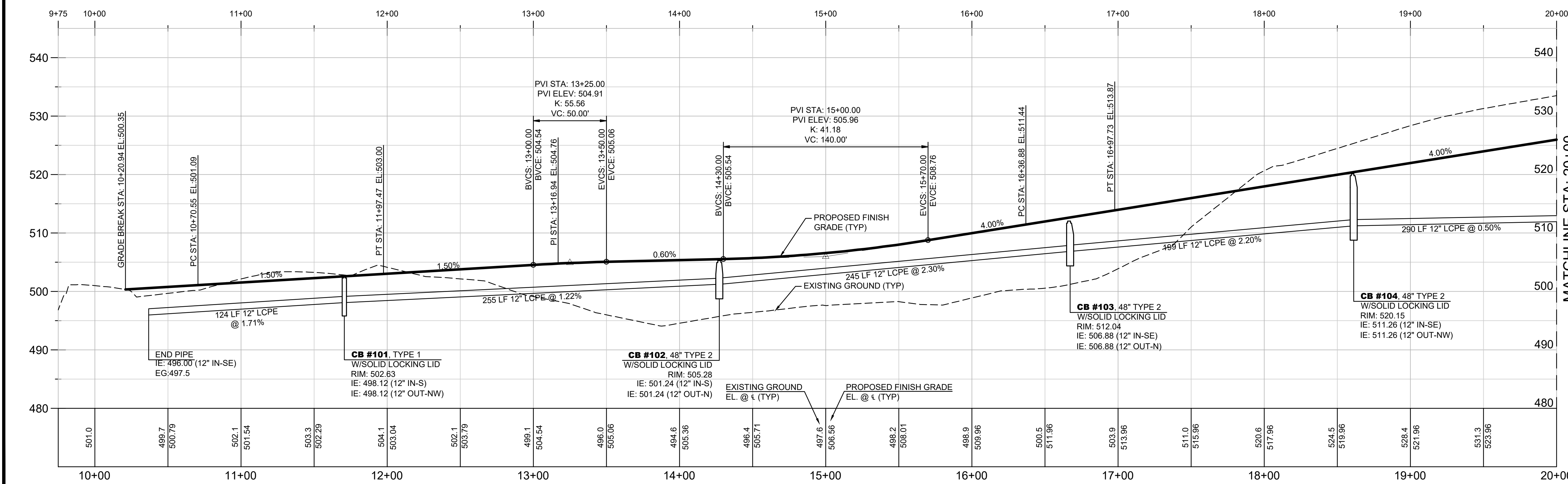
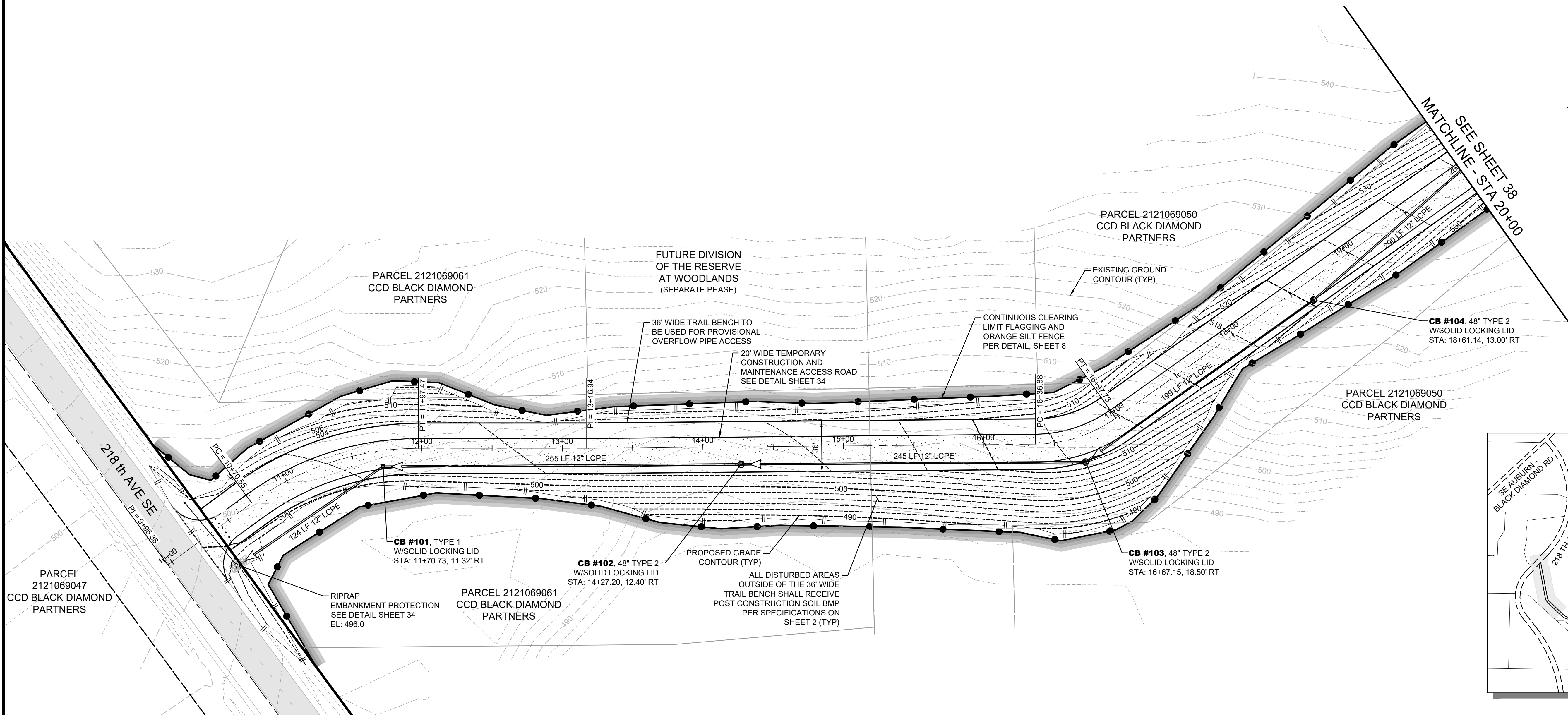
WASHINGTON

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
PROVISIONAL OVERFLOW PIPE
GRADING AND TESC PLAN

KING COUNTY



KEY MAP
NOT TO SCALE



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
101, TYPE 1 W/SOLID LOCKING LID	RIM = 502.63 12" LCPE IE (IN-S) = 498.12 12" LCPE IE (OUT-S) = 498.12
102, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 505.80 12" LCPE IE (IN-N) = 501.24 12" LCPE IE (OUT-N) = 501.24
103, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 513.85 12" LCPE IE (IN-SE) = 506.88 12" LCPE IE (OUT-SE) = 506.88
104, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 520.15 12" LCPE IE (IN-NW) = 511.26 12" LCPE IE (OUT-NW) = 511.26

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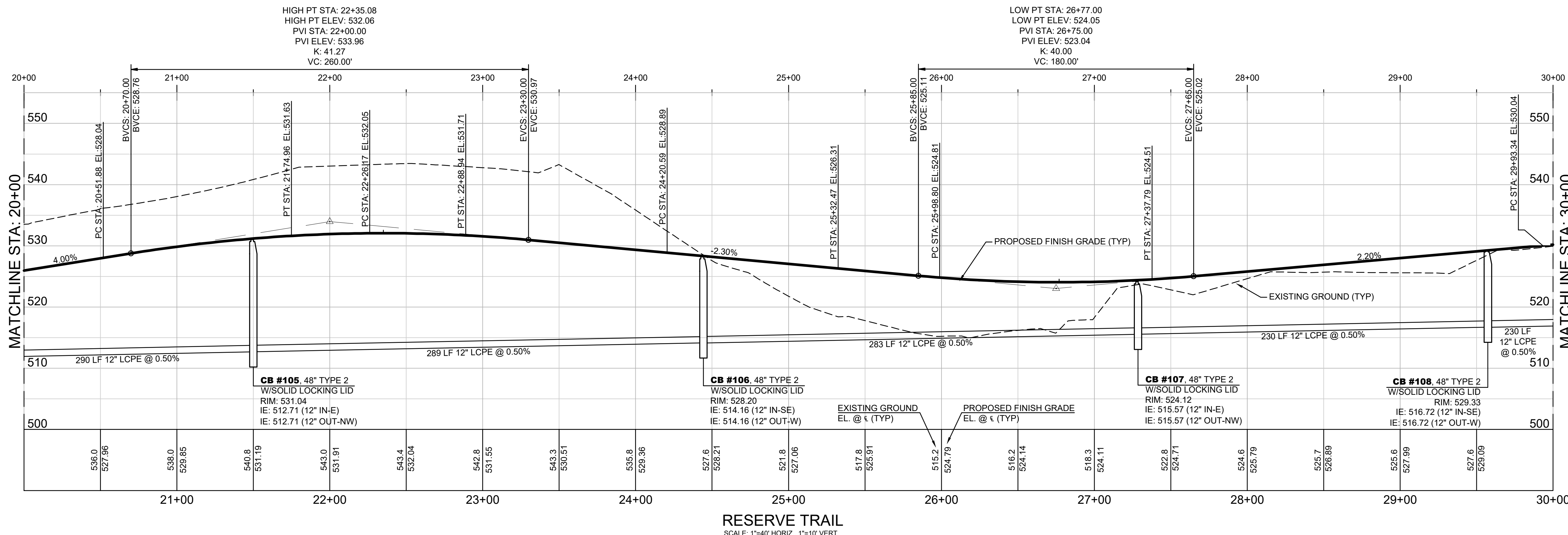
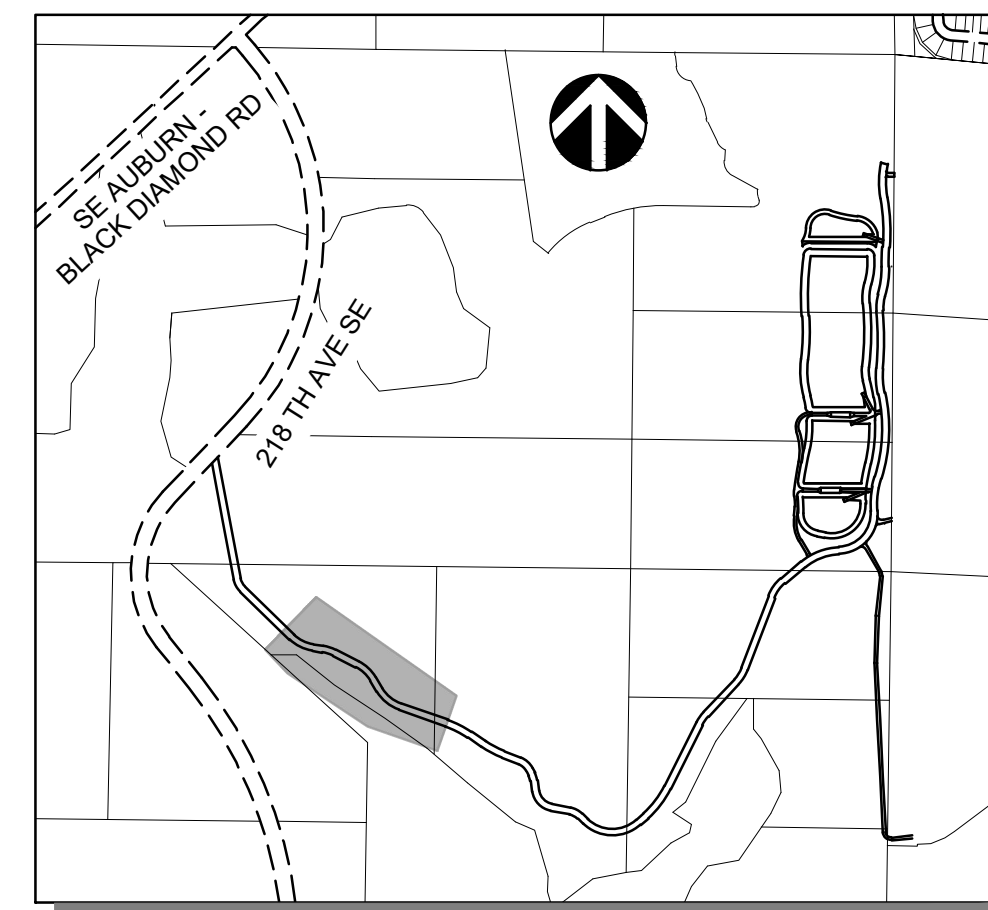
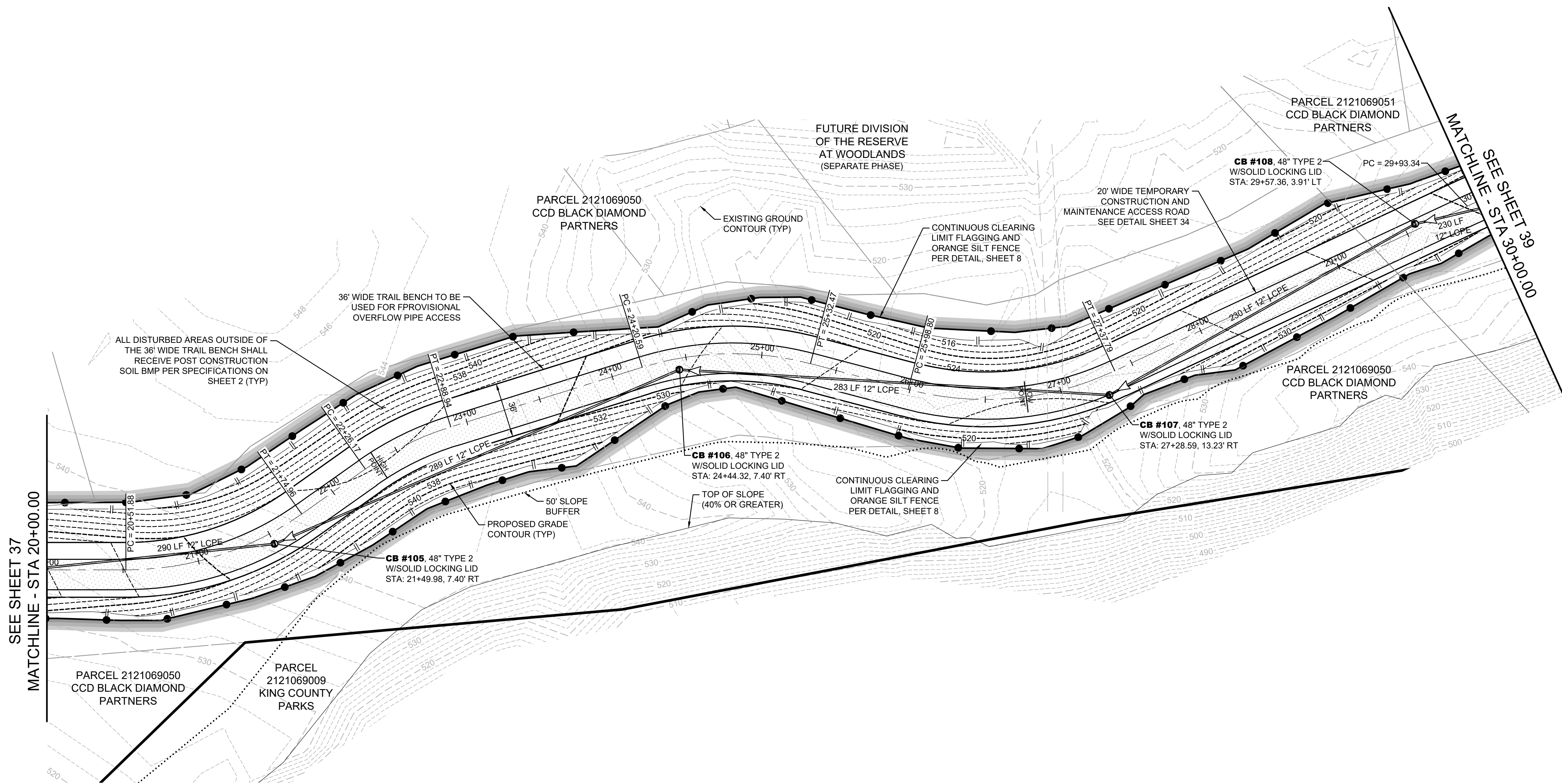
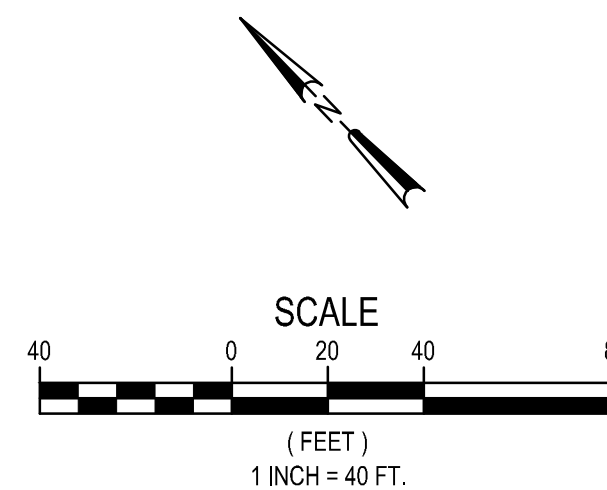
FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO. OAKPCBDP6001

SHEET NO.



DAVID EVANS AND ASSOCIATES INC.
20300 Woodinville Snohomish Rd NE
Woodinville, Washington 98072
Phone: 425.415.2000



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
105, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 531.04 12" LCPE IE (IN-E) = 512.71 12" LCPE IE (OUT-E) = 512.71
106, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 528.20 12" LCPE IE (IN-SE) = 514.16 12" LCPE IE (OUT-SE) = 514.16
107, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 524.12 12" LCPE IE (IN-E) = 515.57 12" LCPE IE (OUT-E) = 515.57
108, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 529.33 12" LCPE IE (IN-SE) = 516.72 12" LCPE IE (OUT-SE) = 516.72

CAUTION
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THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
PROVISIONAL OVERFLOW PIPE
GRADING AND TESC PLAN

REVIEWED BY:	DATE:	BY:	OK
NO.	DATE	REVISION	

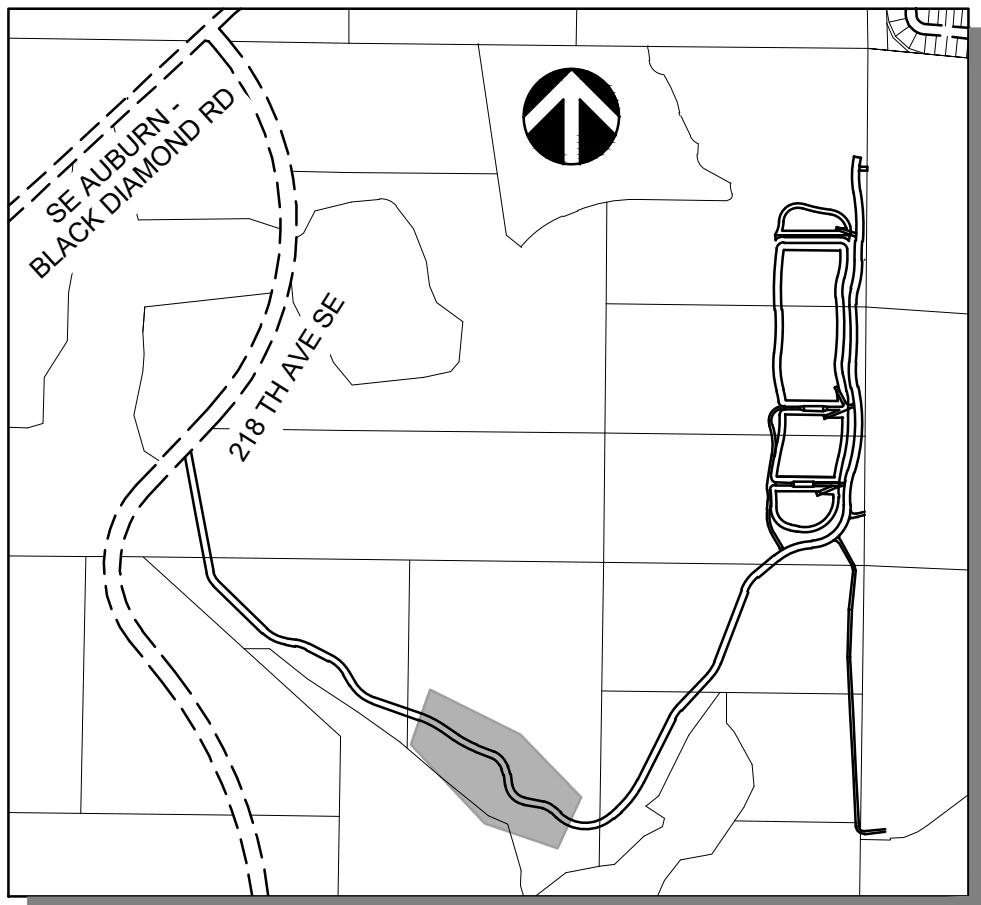
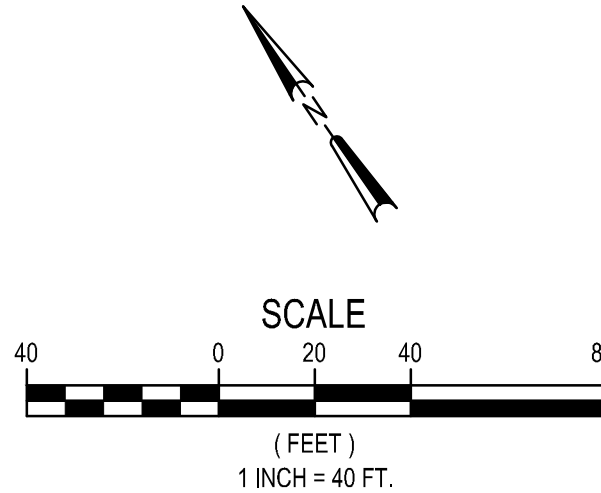


CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

PROJECT NO.
OAKPCBDP6001

SHEET NO.



KEY MAP
NOT TO SCALE

THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
PROVISIONAL OVERFLOW PIPE
GRADING AND TESC PLAN

WASHINGTON

KING COUNTY

DATE: BY: CK

REVIEWED BY: NO. DATE REVISION



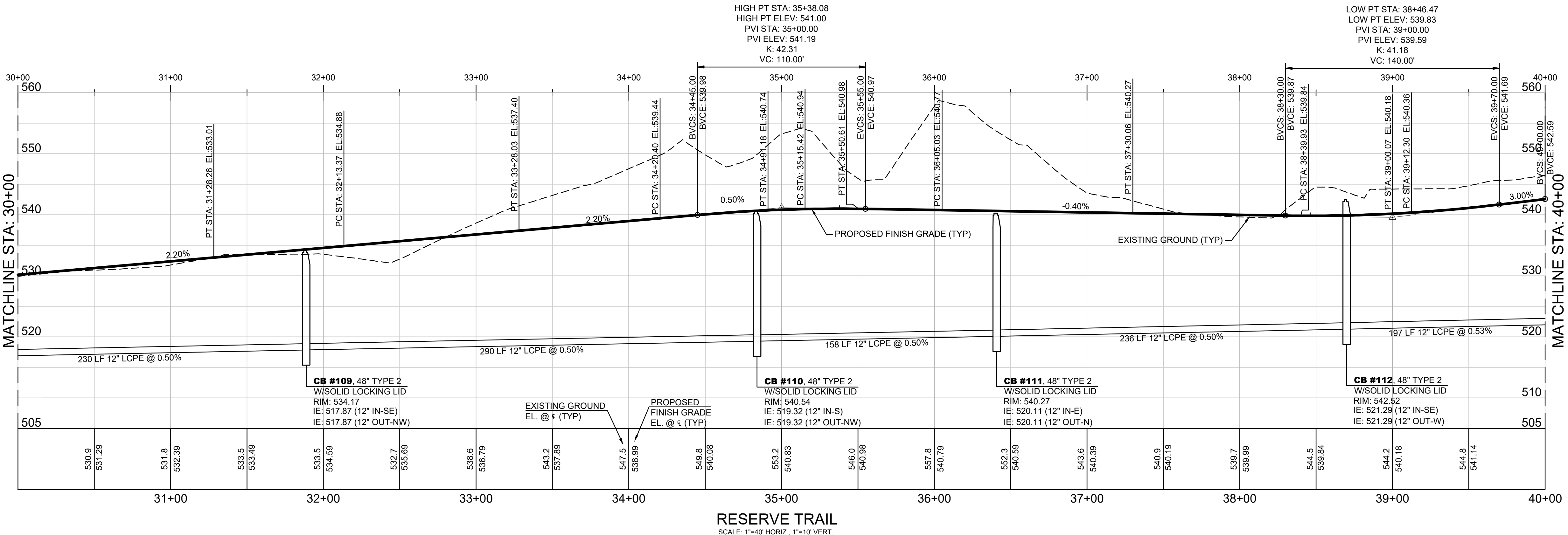
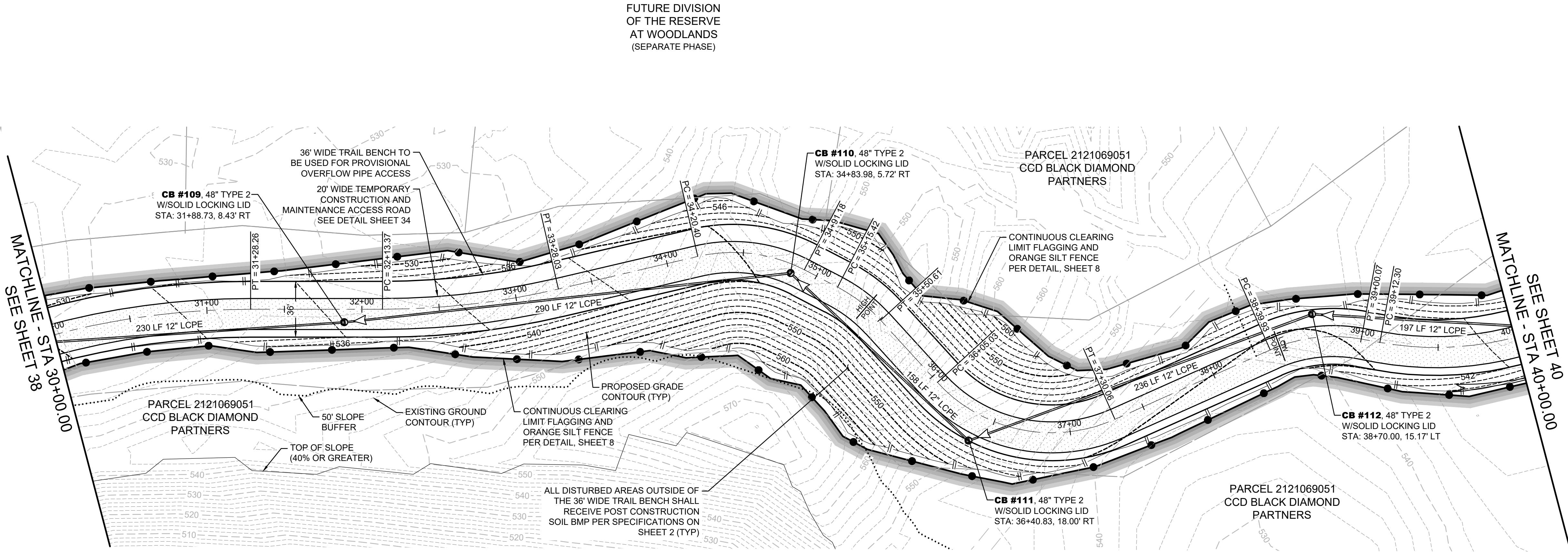
11/14/2024

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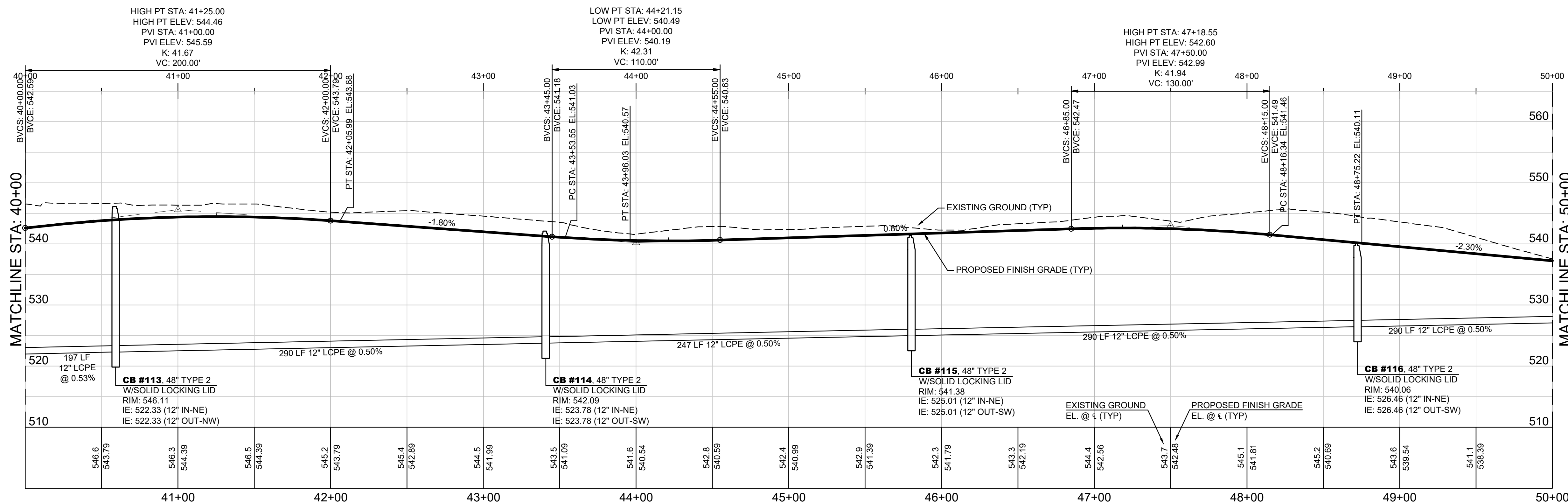
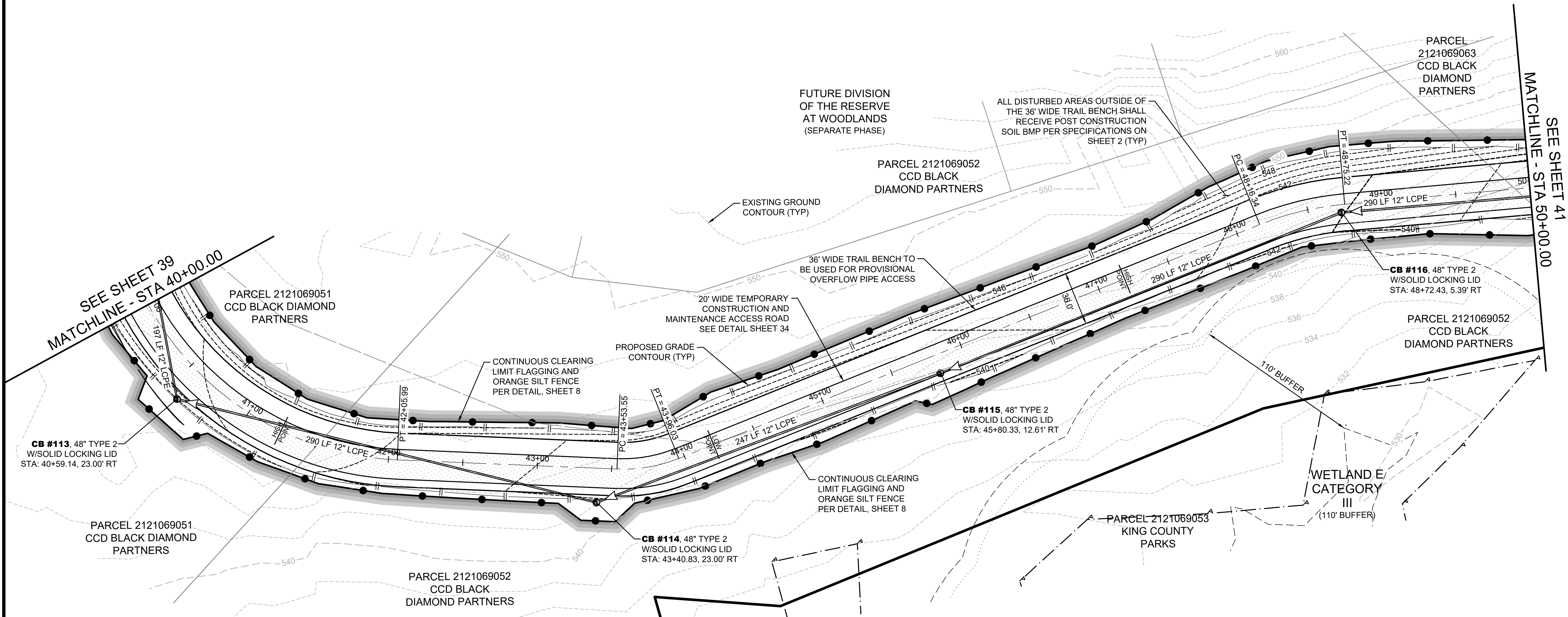
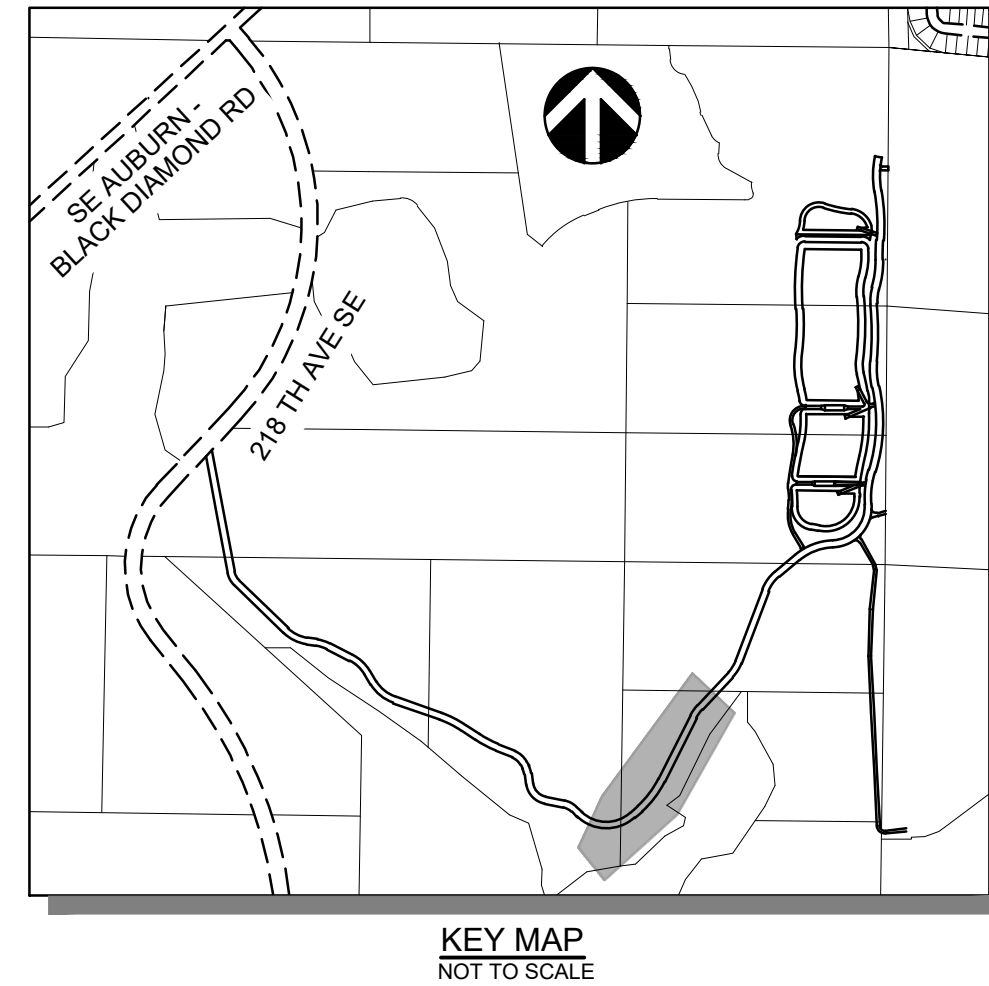
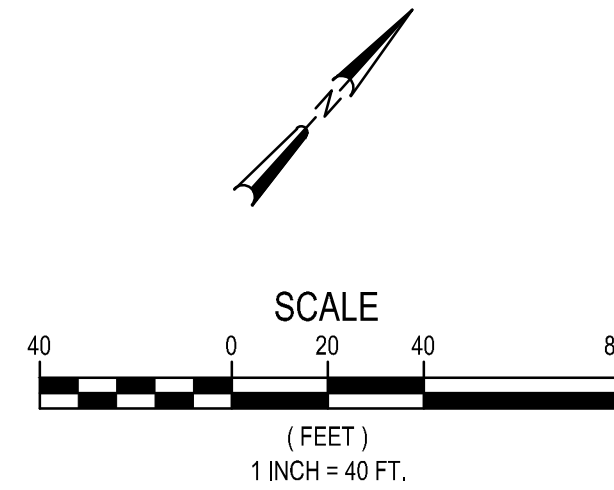
SHEET NO.



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
109, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 534.17 12" LCPE IE (IN-NW) =517.87 12" LCPE IE (OUT-NW) =517.87
110, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.54 12" LCPE IE (IN-S) =519.32 12" LCPE IE (OUT-S) =519.32
111, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.27 12" LCPE IE (IN-E) =520.11 12" LCPE IE (OUT-E) =520.11
112, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 542.52 12" LCPE IE (IN-SE) =521.29 12" LCPE IE (OUT-SE) =521.29

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THE RESERVE AT WOODLANDS
REGIONAL STORMWATER FACILITY
PROVISIONAL OVERFLOW PIPE
GRADING AND TESC PLAN



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
113, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 546.11 12" LCPE IE (IN-NE) =522.33 12" LCPE IE (OUT-NE) =522.33
114, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 542.09 12" LCPE IE (IN-NE) =523.78 12" LCPE IE (OUT-NE) =523.78
115, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 541.38 12" LCPE IE (IN-SW) =525.01 12" LCPE IE (OUT-SW) =525.01
116, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.06 12" LCPE IE (IN-NE) =526.46 12" LCPE IE (OUT-NE) =526.46

CAUTION
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DATE: BY: CK

REVIEWED BY: NO. DATE REVISION

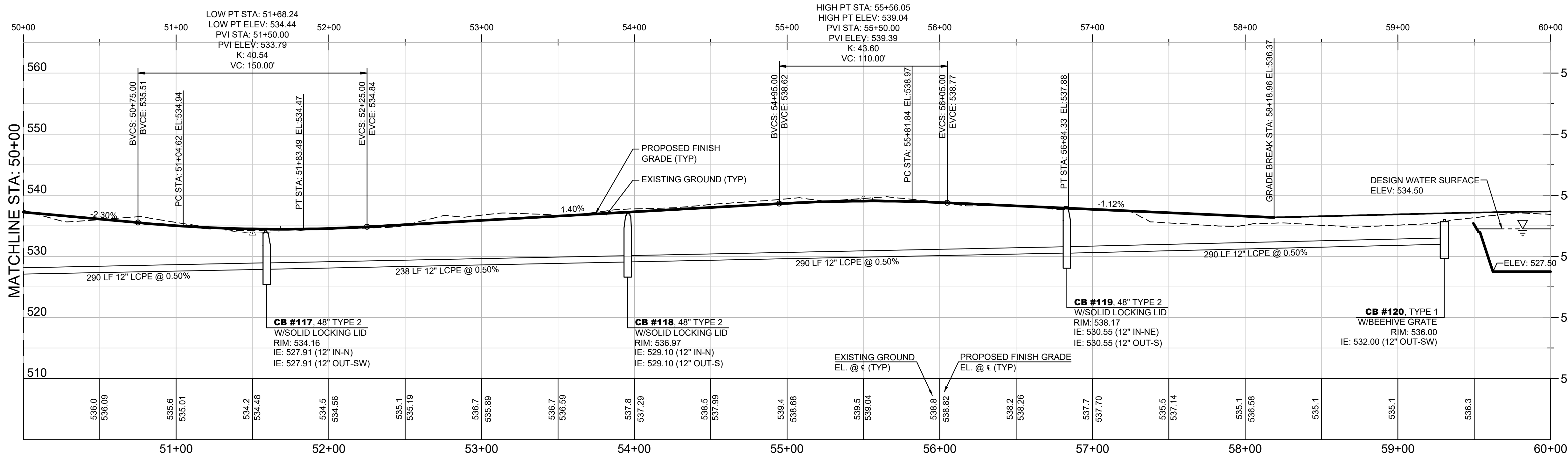
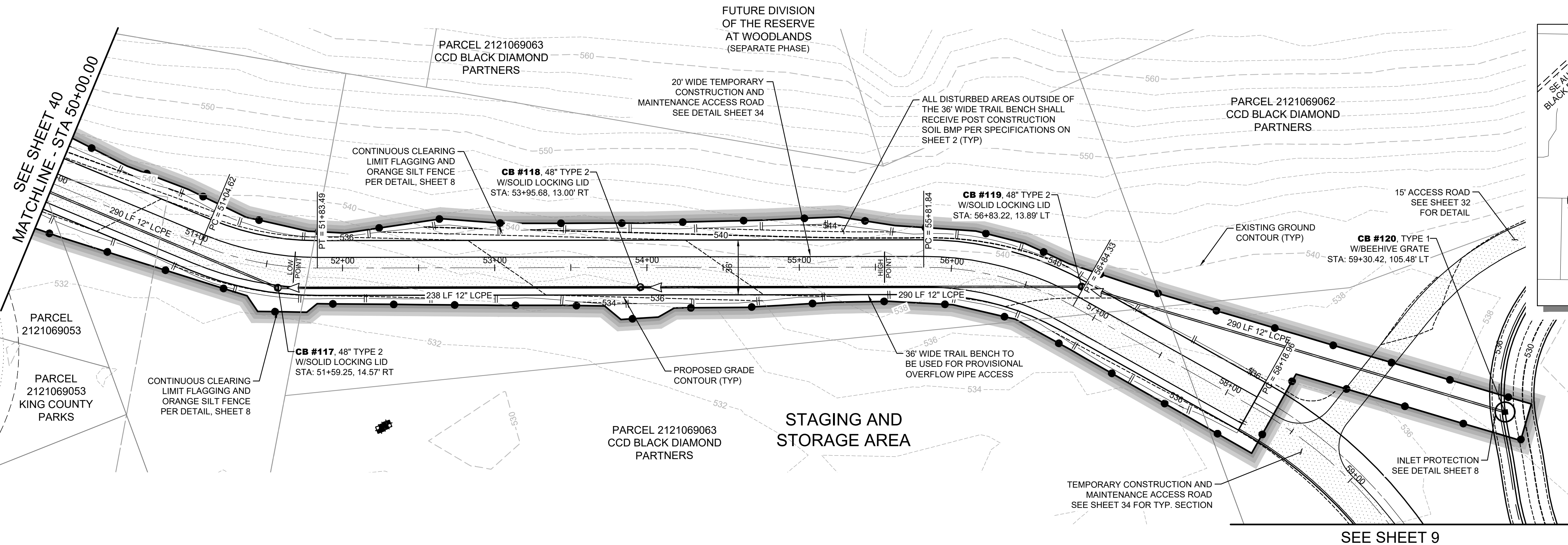
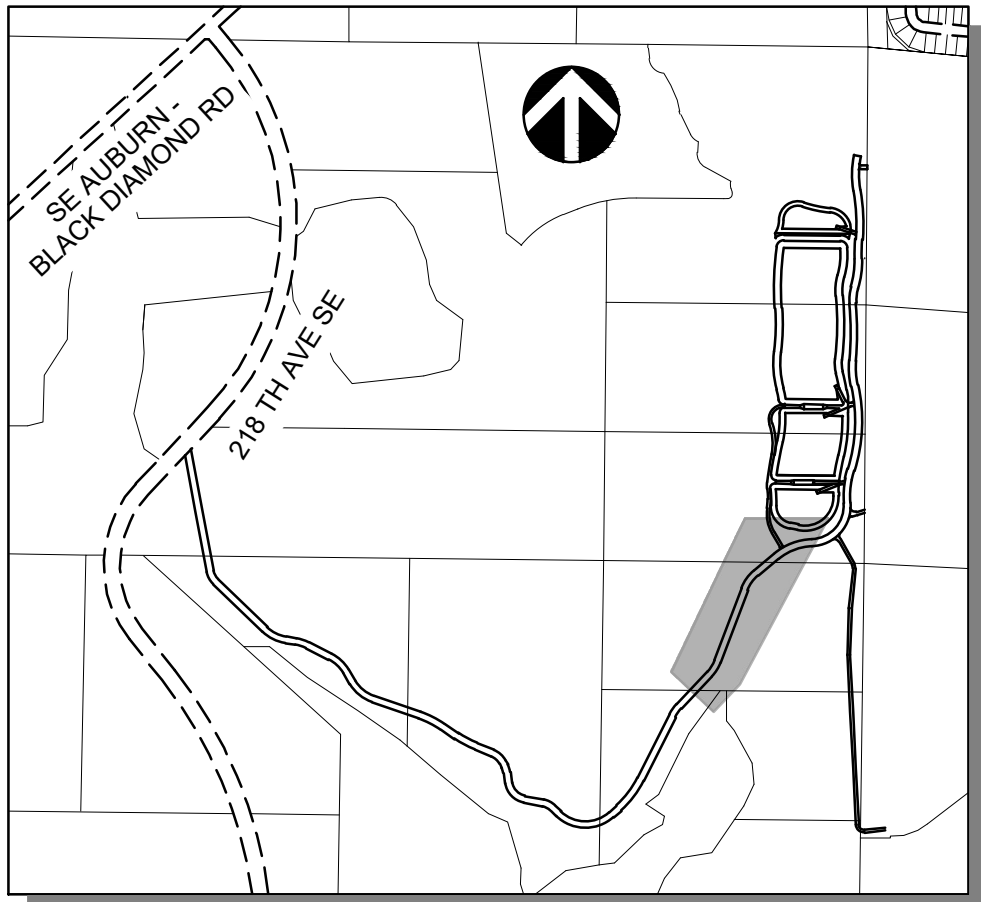
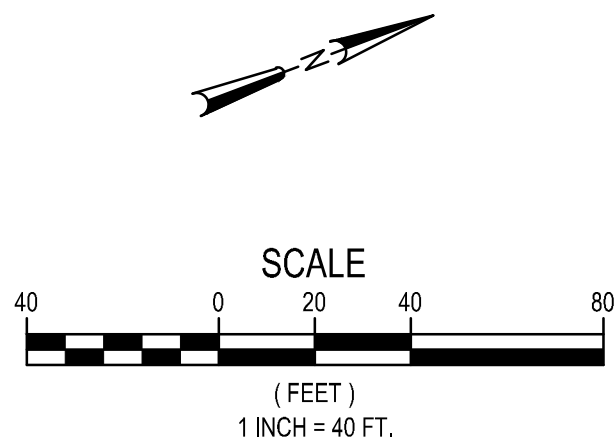


CHECKED BY: AYS
DESIGNED BY: DAM
DRAWN BY: CAH

FIRST SUBMITTAL DATE: 11/14/2024

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OAKPCBDP6001

SHEET NO.



STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
116, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 540.06 12" LCPE IE (IN-NE) = 526.46 12" LCPE IE (OUT-NE) = 526.46
117, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 534.16 12" LCPE IE (IN-N) = 527.91 12" LCPE IE (OUT-N) = 527.91
118, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 536.97 12" LCPE IE (IN-N) = 529.10 12" LCPE IE (OUT-N) = 529.10
119, 48" TYPE 2 W/SOLID LOCKING LID	RIM = 538.17 12" LCPE IE (IN-NE) = 530.55 12" LCPE IE (OUT-NE) = 530.55
120, TYPE 1 W/BEEHIVE GRATE	RIM = 536.00 12" LCPE IE (OUT-SW) = 532.00

CAUTION
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AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE
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