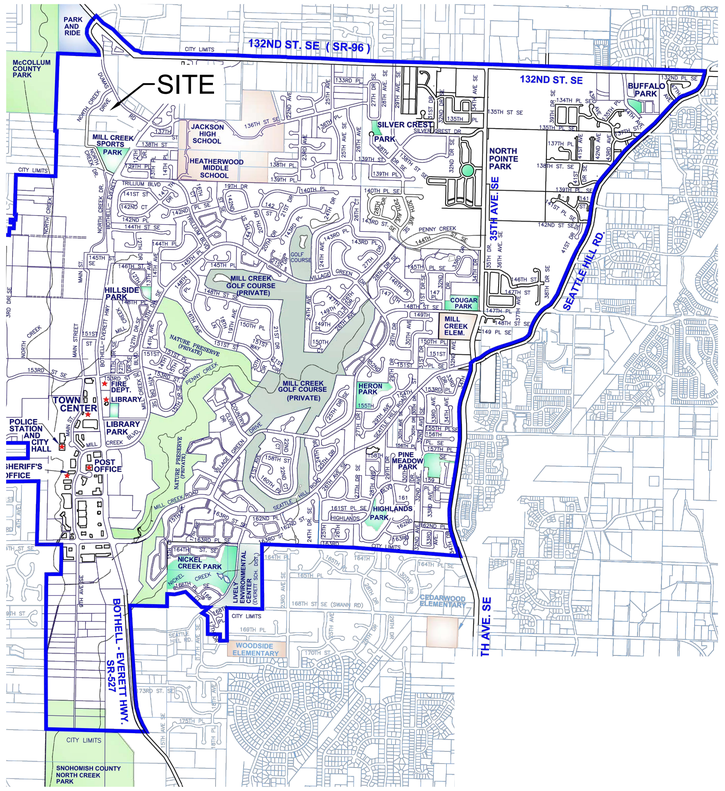
NE 31 T28N R05E



VICINITY MAP

LEGEND

- SPLASH BLOCK FLOW PATH
- GRADE GREAK
- LEVEL SPREADER
- INTERCEPTOR DYKE AND SWALE
- SILT FENCE
- HI–VISIBILITY FENCE / CHAIN LINK FENCE
- CLEARING LIMITS
- PROPERTY LINE
- SD — STORM DRAIN PIPE
- PSD — PERFORATED STORM PIPE
- FIRE HYDRANT / FDC
- GATE VALVE
- C220 — BMP REFERENCE NUMBER
- CATCH BASIN / CB INSERT
- MANHOLE / TYPE 2 CB
- DS — DOWNSPOUT
- HMA PAVEMENT
- CONCRETE WALKWAY
- CONSTRUCTION ENTRANCE
- STRAW WATTLE

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PROJECT SITE INFORMATION

SURVEY REFERENCE
SURVEY INFORMATION PROVIDED BY HARMSEN & ASSOCIATES AND BENCHMARK SURVEYING. TERRAVISTA NW, llc ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

PARCEL NUMBER
28053100203700

ZONING
CB – COMMUNITY BUSINESS

LOT
TOTAL SIZE: 4.54 ACRES

DEVEL IMPERVIOUS AREA: 49,424 SF (1.14 ACRES) (25%)

CUT/FILL ESTIMATED QUANTITIES
SITE CUT AND FILL QUANTITIES ARE CALCULATED FROM AVAILABLE INFORMATION PROVIDED BY THE OWNER PRIOR TO CONSTRUCTION. ACTUAL QUANTITIES WILL VARY. QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR BIDDING. BIDDERS SHALL PERFORM THEIR OWN QUANTITY TAKEOFFS. QUANTITIES ARE MASS EARTHWORK ONLY AND DO NOT INCLUDE EARTHWORK FOR UTILITIES, FOUNDATIONS, OR PAVEMENTS.

4,300 CY: TOPSOIL STRIPPING (~1.5')

4,000 CY: SITE CUT

3,000 CY: SITE FILL

SHEET INDEX

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE				
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS
			9/16/19	A	CIVIL PERMIT	EJS
			DATE	NO.	REVISION	BY
			DESIGNED BY:		REVIEWED BY:	

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JOB NO. 180706

GENERAL INFORMATION

C1.1

NE 31 T28N R05E

MILL CREEK STANDARD GENERAL NOTES

UNLESS NOTES OTHERWISE

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", CITY OF MILL CREEK STANDARD PLANS AND ANY DEVELOPMENT CONDITIONS OF APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THEIR PROFESSIONAL ENGINEER TO CORRECT AND NOTE ANY ERRORS, OMISSIONS, OR VARIATIONS FROM THE REQUIREMENTS FOUND IN THESE PLANS.
2. A CITY RIGHT-OF-WAY [ROW] PERMIT IS REQUIRED FOR ANY WORK THAT WILL IMPACT THE PUBLIC ROW IN ACCORDANCE WITH MCMC CHAPTER 12.04.
3. PRIOR TO BEGINNING ANY SITE CONSTRUCTION, THE APPLICANT, THEIR ENGINEER AND CONTRACTOR SHALL MEET WITH THE PUBLIC WORKS DEPARTMENT FOR A PRE-CONSTRUCTION MEETING.
4. A COPY OF THE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. PRIOR TO ANY TREE REMOVAL ON SITE, THE CLEARING LIMITS SHALL BE LOCATED AND PROTECTED AS REQUIRED ON THE APPROVED PLANS. BARRIER FENCING SHALL BE PLACED AROUND THE DRIPLINE OF THE TREES TO RETAINED AND CITY STAFF SHALL FIELD INSPECT THE TREES TO BE RETAINED PRIOR TO COMMENCEMENT OF CLEARING AND GRADING ACTIVITES.
6. IN ACCORDANCE WITH MCMC SECTION 15.10.075.B, WHERE TREES DESIGNATED TO BE RETAINED ARE DAMAGED, DESTROYED OR REMOVED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, A PENALTY IN THE AMOUNT OF $1,000 MAY BE ASSESSED PER TREE, AND EACH TREE SHALL BE REPLACED AT A 3:1 RATIO.
7. APPROPRIATE BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING OR LAND CLEARING IN ACCORDANCE WITH THE APPROVED STORMWATER POLLUTION PREVENTION PLAN [SWPPP). THESE BMP'S MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON- SITE EROSION HAS PASSED.
8. BETWEEN OCTOBER 1 AND APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS. ANY UNWORKED SOIL SHALL BE STABILIZED WITH AN APPROVED BMP UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
9. PUBLIC STREETS SHALL BE CLEANED ONCE PER DAY WITH A REGENERATIVE AIR VACUUM SWEEPER OR AS DIRECTED BY THE CITY. FLUSHING OF STREETS WITH WATER WILL NOT BE ALLOWED.
10. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY LOCATE CENTER AT 811 NO LESS THAN 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
11. THE CONTRACTOR SHALL COMPLY WITH ALL OTHER NECESSARY PERMITS AND REQUIREMENTS BY THE CITY OF MILL CREEK OR OTHER GOVERNING AUTHORITY/AGENCY.

ADA NOTES

UNLESS NOTES OTHERWISE

1. WORK SHALL BE ACCORDANCE WITH THE PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), AS PUBLISHED BY THE UNITED STATES ACCESS BOARD.
2. LIMITS OF SIDEWALK TRANSITIONS SHALL BE REPLACED TO THE NEAREST CONCRETE JOINT BEYOND THE MINIMUM LIMITS SHOWN ON THE PLANS.
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, OR DIRECTED BY THE CITY, CROSS SLOPES OF SIDEWALKS SHALL BE A NOMINAL 1.5%. CROSS SLOPES SHALL NOT BE LESS THAN 1% NOR EXCEED 2%.
4. MAXIMUM SLOPES SHOWN ON THE PLANS REPRESENT THE MAXIMUM ALLOWABLE SLOPES PERMITTED BY CURRENT ADA REQUIREMENTS. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION CONSTRUCTION TOLERANCES WHEN PLACING SIDEWALKS TO INSURE MAXIMUM SLOPES ARE NOT EXCEEDED.
5. COMPLETED SIDEWALKS OR OTHER HARDSCAPE ELEMENTS THAT EXCEED MAXIMUM SPECIFIED SLOPES OR ARE LESS THAN MINIMUM SPECIFIED SLOPES SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE

MILL CREEK STANDARD LID NOTES

UNLESS NOTES OTHERWISE

1. CONTACT CITY PUBLIC WORKS STAFF FOR A SEPARATE PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING WORK ON ALL LID SITES.
2. INSTALL PERIMETER PROTECTION AROUND ALL RAIN GARDEN, BIOSWALE, OR PERMEABLE PAVEMENT SITES AFTER ROUGH GRADING WORK.
3. PERIMETER PROTECTION MUST REMAIN IN PLACE AND BE MAINTAINED AROUND ALL LID SITES UNTIL FACILITY CONSTRUCTION BEGINS. THIS IS TO PREVENT COMPACTION OF NATIVE SOILS AND EXISTING SOILS FROM GETTING CLOGGED WITH SEDIMENT.
4. RAIN GARDEN CONSTRUCTION SHALL FOLLOW THE CURRENT RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON FOR SPECIFICATIONS AND CONSTRUCTION GUIDANCE.
5. BIOSWALE CONSTRUCTION SHALL FOLLOW THE CURRENT LID TECHNICAL GUIDANCE MANUAL FOR SPECIFICATIONS AND CONSTRUCTION GUIDANCE.
6. BIORETENTION SOIL MIX REQUIRES A LAB REPORT FOR PHYSICAL SUBMITTAL TO THE CITY INSPECTOR.
7. PERMEABLE PAVEMENT SHALL BE COVERED WITH PLASTIC AFTER INSTALLATION IN ORDER TO PREVENT CONSTRUCTION MATERIALS FROM CLOGGING THE SURFACE. PLASTIC SHALL NOT BE REMOVED UNTIL ALL EARTH WORK AND BUILDING CONSTRUCTION IS COMPLETE.
8. ALL RAIN GARDENS SHALL HAVE A CITY APPROVED EDUCATION SIGN INSTALLED AFTER COMPLETION.
9. LOW IMPACT DEVELOPMENT SITES SHALL BE FULLY FUNCTIONING PRIOR TO FINAL CITY ACCEPTANCE.

MILL CREEK INSPECTION REQ.

UNLESS NOTES OTHERWISE

1. ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   a. INSPECTIONS SHALL BE SCHEDULED ONLINE NO LESS THAN 24 HOURS IN ADVANCE.
   b. UNDERGROUND PUBLIC INFRASTRUCTURE SHALL NOT BE BACKFILLED WITHOUT A VISUAL INSPECTION BY THE CITY.
   c. ANY WORK COVERED WITHOUT PRIOR ACCEPTANCE MAY BE REQUIRED TO BE EXPOSED FOR CITY INSPECTION.
   d. THE CONTRACTOR SHALL REQUEST A SUBSTANTIAL COMPLETION INSPECTION ONCE SITE WORK HAS BEEN COMPLETED FOR ANY PUNCHLIST ITEMS.
   e. THE CONTRACTOR SHALL REQUEST A PHYSICAL COMPLETION INSPECTION AFTER ALL RESTORATION AND REPAIR WORK HAS BEEN COMPLETED FOR FINAL CITY ACCEPTANCE.
2. COMPACTION TESTING IS REQUIRED FOR ALL BACKFILLING, GRADING, EMBANKMENT AND ASPHALT PAVING WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
   a. EARTHWORK SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY [MODIFIED PROCTOR) UNDER PAVED AREAS, AND A MINIMUM OF 90% OF THE MAXIMUM DENSITY [MODIFIED PROCTOR) IN UNPAVED AREAS.
   b. ASPHALT PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 91% OF THE MAXIMUM [RICE] DENSITY.
   c. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPACTION TESTING SERVICES, AND SHALL PROVIDE SATISFACTORY TEST REPORTS TO THE CITY PRIOR TO FINAL ACCEPTANCE.
3. MATERIAL SAMPLING AND TESTING IS REQUIRED FOR ALL CONCRETE WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
   a. SAMPLING AND TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 6-02.3 OF THE WSDOT STANDARD SPECIFICATIONS.
   b. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MATERIAL TESTING SERVICES, AND SHALL PROVIDE SATISFACTORY TEST REPORTS TO THE CITY PRIOR TO FINAL ACCEPTANCE.

MILL CREEK STANDARD LANDSCAPE NOTES

UNLESS NOTES OTHERWISE

1. TREES SHALL HAVE ONE CENTRAL LEADER. IF THE LEADER WAS HEADED, A NEW LEADER [WITH A LIVE TERMINAL BUD) AT LEAST ONE-HALFTHE DIAMETER OF THE PRUNING CUT SHALL BE PRESENT
   - ALL TREES ARE ASSUMED TO HAVE ONE CENTRAL LEADER TREES UNLESS A DIFFERENT FORM IS SPECIFIED IN THE PLANT LIST OR DRAWINGS.
2. TWINE AND BURLAP USED FOR WRAPPING THE ROOT BALL PACKAGE SHALL BE NATURAL, BIODEGRADABLE MATERIAL.
3. CONTAINER ROOT BALL SHAVING: THE OUTER SURFACES OF ALL CONTAINER TREES, INCLUDING THE TOP, SIDES AND BOTTOM OF THE ROOT BALL SHALL BE SHAVED TO REMOVE ALL CIRCLING, DESCENDING, AND MATTED ROOTS. SHAVING SHALL BE PERFORMED USING SAWS, KNIVES, SHARP SHOVELS OR OTHER SUITABLE EQUIPMENT THAT IS CAPABLE OF MAKING CLEAN CUTS ON THE ROOTS. SHAVING SHALL REMOVE A MINIMUM OF ONE INCH OF ROOT MAT OR UP TO 2 INCHES AS REQUIRED TO REMOVE ALL ROOT SEGMENTS THAT ARE NOT GROWING REASONABLY RADIAL TO THE TRUNK.
4. FOR TREES TO BE PLANTED IN PREPARED PLANTING SOIL THAT IS DEEPER THAN THE ROOT BALL DEPTH, COMPACT THE SOIL UNDER THE ROOT BALL USING A MECHANICAL TAMPER TO ASSURE A FIRM BEDDING FOR THE ROOT BALL. PLANTING SOIL IS THE SITE SOIL EXCAVATED FROM THE PLANTING PIT, MIXED WITH A MAXIMUM OF 5% ORGANIC MATTER.
5. ROOT BARRIER IS REQUIRED ADJACENT TO TREES PLANTED IN A PLANTER STRIP NARROWER THAN SIX FEET AND IN LANDSCAPE ISLANDS. BARRIER ADJACENT TO THE CURB SHALL BE 24 INCHES AND BARRIER ADJACENT TO THE SIDEWALK SHALL BE 18 INCHES.
6. SET TOP OUTER EDGE OF THE ROOT BALL AT THE AVERAGE ELEVATION OF THE PROPOSED FINISH. SET THE PLANT PLUMB AND UPRIGHT IN THE CENTER OF THE PLANTING HOLE. THE TREE GRAFT, IF APPLICABLE, SHALL BE VISIBLE ABOVE THE GRADE. DO NOT PLACE SOIL ON TOP OF THE ROOT BALL.
7. AFTER THE ROOT BALL HAS BEEN PLACED IN THE EXCAVATED PIT, REMOVE ROOT BALL WRAPPING (BURLAP, WIRE BASKET, TWINE, ETC.) FROM THE TOP 12 INCHES OR 2/3 OF THE ROOT BALL, WHICHEVER IS GREATER. CUT THE BURLAP AWAY; DO NOT FOLD DOWN ONTO THE PLANTING SOIL.
8. STABILIZE THE ROOT BALL BY FIRMING A RING OF BACKFILL SOIL AROUND THE BOTTOM OF THE ROOT BALL. PLACE ADDITIONAL PLANTING SOIL AROUND BASE AND SIDES OF BALL IN SIX-INCH [6") LIFTS. LIGHTLY TAMP EACH LIFT USING FOOT PRESSURE OR HAND TOOLS TO SETTLE BACKFILL, SUPPORT THE TREE AND ELIMINATE VOIDS. DO NOT OVER COMPACT THE BACKFILL OR USE MECHANICAL OR PNEUMATIC TAMPING EQUIPMENT.
9. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED TO THREE QUARTERS OF ITS DEPTH, WATER SHALL BE POURED AROUND THE ROOT BALL AND ALLOWED TO SOAK INTO THE SOIL TO SETTLE THE SOIL. DO NOT FLOOD THE PLANTING SPACE. AIR POCKETS SHALL BE ELIMINATED AND BACKFILL CONTINUED UNTIL THE PLANTING SOIL IS BROUGHT TO GRADE LEVEL.
10. WHERE INDICATED ON THE DRAWINGS, BUILD A 4 INCH HIGH, LEVEL BERM OF PLANTING SOIL AROUND THE OUTSIDE OF THE ROOT BALL TO RETAIN WATER. TAMP THE BERM TO REDUCE LEAKING AND EROSION OF THE SAUCER.
11. THOROUGHLY WATER THE PLANTING SOIL AND ROOT BALL IMMEDIATELY AFTER PLANTING.
12. REMOVE ALL NURSERY PLANT IDENTIFICATION TAGS AND RIBBONS PRIOR TO FINAL INSPECTION.
13. DO NOT STAKE OR GUY TREES UNLESS SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, OR IN THE EVENT THAT THE CONTRACTOR FEELS THAT STAKING IS THE ONLY ALTERNATIVE WAY TO KEEP PARTICULAR TREES PLUMB.
14. TREES THAT ARE GUYED SHALL HAVE THEIR GUYS AND STAKES REMOVED AFTER ONE FULL GROWING SEASON.
15. APPLY 2 TO 4 INCHES OF MULCH BEFORE SETTLEMENT, COVERING THE ENTIRE PLANTING BED AREA. INSTALL NO MORE THAN 1 INCH OF MULCH OVER THE TOP OF THE ROOT BALLS OF ALL PLANTS. TAPER TO 2 INCHES WHEN ABUTTING PAVEMENT.
16. MAINTENANCE DURING THE PERIOD PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE SHALL CONSIST OF PRUNING, WATERING, CULTIVATING, WEEDING, MULCHING, REMOVAL OF DEAD MATERIAL, RESETTING PLANTS TO PROPER GRADES AND UPRIGHT POSITION, AND FURNISHING AND APPLYING SUCH SPRAYS AS ARE NECESSARY TO KEEP PLANTINGS REASONABLY FREE OF DAMAGING INSECTS AND DISEASE, AND IN HEALTHY CONDITION. THE THRESHOLD FOR APPLYING INSECTICIDES AND HERBICIDE SHALL FOLLOW ESTABLISHED INTEGRATED PEST MANAGEMENT [IPM) PROCEDURES. MULCH AREAS SHALL BE KEPT REASONABLY FREE OF WEEDS, GRASS.

MILL CREEK STANDARD DRAINAGE NOTES

UNLESS NOTES OTHERWISE

1. ALL CATCH BASINS TO BE TYPE I UNLESS OTHERWISE REQUIRED.
2. ALL CATCH BASINS WITH A DEPTH OVER FIVE FEET TO THE FLOW LINE SHALL BE TYPE II.
3. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS AND MANHOLES EXTENDING OVER FIVE FEET IN DEPTH.
4. ALL DRAINAGE STRUCTURES SHALL INCORPORATE A DUCTILE IRON FRAME AND GRATE OR SOLID LID IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   a. STRUCTURES RECEIVING FLOW IN ONLY ONE DIRECTION SHALL INCLUDE A VANED FRAME AND GRATE.
   b. STRUCTURES IN A CURB LINE RECEIVING FLOW IN TWO DIRECTIONS SHALL USE A THROUGH CURB INLET WITH A VANED BI-DIRECTIONAL GRATE WITH A FULL HEIGHT DIAMOND PLATE HOOD.
   c. ROLLED FRAME AND GRATES MAY BE USED ONLY WHERE APPROVED BY THE CITY ENGINEER.
   d. STRUCTURES OUTSIDE A CURB LINE [E.G. PARKING LOTS) RECEIVING FLOW FROM MULTIPLE DIRECTIONS MAY USE A FRAME AND GRATE WITH A FLAT HERRINGBONE PATTERN OR EQUIVALENT.
   e. ALL DRAINAGE STRUCTURES OUTSIDE A WATER COLLECTION AREA SHALL HAVE SOLID LIDS UNLESS OTHERWISE APPROVED BY THE CITY.
   f. ALL GRATES OR SOLID LIDS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE NON-LOCKING. GRATES AND SOLID LIDS OUTSIDE THE PUBLIC RIGHT-OF-WAY MAY BE LOCKING AT THE OWNER'S DISCRETION.
   g. ALL FRAME AND GRATES OR SOLID LIDS SHALL HAVE AN HS-25 RATING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FRAMES AND GRATES OR SOLID LIDS PRIOR TO FINAL PAVING. ALL UTILITY MANHOLES, VALVES AND SURVEY MONUMENTS SHALL BE ADJUSTED AFTER PAVING.
6. STUB OUTS FOR TRADITIONAL YARD, FOUNDATION AND ROOF DRAINS SHALL BE INSTALLED BEHIND THE SIDEWALK AS REQUIRED. POSITIVE DRAINAGE IS TO BE PROVIDED WITH A CONNECTION TO THE NEAREST CATCH BASIN STRUCTURE. THE LOCATION AND TYPE OF STUB-OUT SHALL BE INDICATED WITH AN ABOVE GROUND MARKER.
7. ALL STORM WATER DETENTION AND WATER QUALITY FACILITIES, FLOW CONTROL STRUCTURES, PIPES AND CATCH BASINS SHALL BE JETTED AND CLEANED PRIOR TO FINAL CITY ACCEPTANCE.
8. ~~ALL STORM DRAIN PIPES SHALL BE 12" MINIMUM DIAMETER UNLESS APPROVED BY THE CITY ENGINEER.~~ PIPE AND JOINT MATERIALS SHALL BE IN ACCORDANCE WITH SECTIONS 7-04 AND 9-05 OF THE WSDOT STANDARD SPECIFICATIONS.

CONSTRUCTION SEQUENCE

1. MARK CLEARING LIMITS
2. INSTALL SWPPP BEST MANAGEMENT PRACTICES (BMP's) AS OUTLINED ON SHEET C1.3.
3. PERFORM EARTHWORK
4. INSTALL ADDITIONAL BMP's AS OUTLINED ON SHEET C1.3.
5. CONSTRUCT ONSITE BUILDING AND UTILITY IMPROVEMENTS.
6. INSTALL PERMANENT VEGETATION AND BMP's.
7. COMPLETE ONSITE WORK.
8. REMOVE TEMPORARY BMP's.

811 Know what's below. Call before you dig.

PLAN CHECK	BY	DATE	5/07/20	E	CIVIL PERMIT REVISIONS	EJS
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DESIGNED BY: REVIEWED BY:

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7C's SWIM SCHOOL

NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

GENERAL NOTES

JOB NO. 180706

C1.2

NE 31 T28N R05E

ELEMENTS OF CONSTRUCTION SWPPP

1. PRESERVE VEGETATION / MARK CLEARING LIMITS

BEFORE BEGINNING LAND DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, CLEARLY MARK ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA.

RETAIN THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICAL. IF IT IS NOT PRACTICAL TO RETAIN THE DUFF LAYER IN PLACE, THEN STOCKPILE IT ON-SITE, COVER IT TO PREVENT EROSION, AND REPLACE IT IMMEDIATELY WHEN YOU FINISH DISTURBING THE SITE.

BMP's
- C101: PRESERVING NATURAL VEGETATION
- C102: BUFFER ZONES
- ➤C103: HIGH VISIBILITY FENCE
- ➤C233: SILT FENCE

2. ESTABLISH CONSTRUCTION ACCESS

LIMIT CONSTRUCTION VEHICLE ACCESS AND EXIT TO ONE ROUTE, IF POSSIBLE. STABILIZE ACCESS POINTS WITH A PAD OF QUARRY SPALLS, CRUSHED ROCK, OR OTHER EQUIVALENT BMPS, TO MINIMIZE TRACKING SEDIMENT ONTO ROADS. LOCATE WHEEL WASH OR TIRE BATHS ON SITE, IF THE STABILIZED CONSTRUCTION ENTRANCE IS NOT EFFECTIVE IN PREVENTING TRACKING SEDIMENT ONTO ROADS. IF SEDIMENT IS TRACKED OFF SITE, CLEAN THE AFFECTED ROADWAY THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY AS NECESSARY (FOR EXAMPLE, DURING WET WEATHER). REMOVE SEDIMENT FROM ROADS BY SHOVELING, SWEEPING, OR PICK UP AND TRANSPORT THE SEDIMENT TO A CONTROLLED SEDIMENT DISPOSAL AREA. CONDUCT STREET WASHING ONLY AFTER SEDIMENT IS REMOVED IN ACCORDANCE WITH THE ABOVE BULLET. CONTROL STREET WASH WASTEWATER BY PUMPING BACK ON SITE OR OTHERWISE PREVENTING IT FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE. MINIMIZE CONSTRUCTION SITE ACCESS POINTS ALONG LINEAR PROJECTS, SUCH AS ROADWAYS. STREET WASHING MAY REQUIRE LOCAL JURISDICTION APPROVAL.

BMP's
- ➤C105: STABILIZE CONSTRUCTION ENTRANCE/EXIT
- C106: WHEEL WASH
- C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

3. CONTROL FLOW RATES

PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM OF DEVELOPMENT SITES FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATERS DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE. WHERE NECESSARY, CONSTRUCT STORMWATER RETENTION OR DETENTION FACILITIES AS ONE OF THE FIRST STEPS IN GRADING. ASSURE THAT DETENTION FACILITIES FUNCTION PROPERLY BEFORE CONSTRUCTING SITE IMPROVEMENTS (E.G. IMPERVIOUS SURFACES). IF PERMANENT INFILTRATION PONDS ARE USED FOR FLOW CONTROL DURING CONSTRUCTION, PROTECT THESE FACILITIES FROM SILTATION DURING THE CONSTRUCTION PHASE.

BMP's
- C203: WATER BARS
- ➤C207: CHECK DAMS
- C209: OUTLET PROTECTION
- C235: WATTLES
- ➤C240: SEDIMENT TRAP
- C241: TEMPORARY SEDIMENT POND

4. INSTALL SEDIMENT CONTROLS

INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. CONSTRUCT SEDIMENT CONTROL BMPS (SEDIMENT PONDS, TRAPS, FILTERS, ETC.) PRIOR TO GRADING.

BMP's
- C231: BRUSH BARRIER
- C232: GRAVEL FILTER BERM
- ➤C233: SILT FENCE
- C234: VEGETATED STRIP
- C235: WATTLES
- C240: SEDIMENT TRAP
- C241: TEMPORARY SEDIMENT POND
- C250: CONSTRUCTION STORMWATER CHEMICAL TREATMENT
- C251: CONSTRUCTION STORMWATER FILTRATION

5. STABILIZE SOILS

SOILS MUST NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW TO PREVENT EROSION.

DURING THE DRY SEASON (MAY 1 – SEPT. 30): 7 DAYS.

DURING THE WET SEASON (OCTOBER 1 – APRIL 30): 2 DAYS.

STABILIZE SOILS AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. STABILIZE SOIL STOCKPILES FROM EROSION, PROTECT WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS. MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY. MINIMIZE THE DISTURBANCE OF STEEP SLOPES.

BMP's
- ➤C120: TEMPORARY AND PERMANENT SEEDING
- C121: MULCHING
- C122: NETS AND BLANKETS
- C123: PLASTIC COVERING
- C124: SODDING
- C125: TOPSOILING / COMPOSTING
- C126: POLYACRYLAMIDE (PAM) FOR SOIL EROSION PROTECTION
- C130: SURFACE ROUGHENING
- C131: GRADIENT TERRACES
- ➤C140: DUST CONTROL

6. PROTECT SLOPES

DIVERT OFF-SITE STORMWATER (RUN-ON) OR GROUND WATER AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PIPES, AND/OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE. PLACE EXCAVATED MATERIAL ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.

BMP's
- ➤C120: TEMPORARY AND PERMANENT SEEDING
- C121: MULCHING
- C122: NETS AND BLANKETS
- C123: PLASTIC COVERING
- C124: SODDING
- C130: SURFACE ROUGHENING
- C131: GRADIENT TERRACES
- ➤C200: INTERCEPTOR DIKE AND SWALE
- C201: GRASS-LINED CHANNELS
- C203: WATER BARS
- C204: PIPE SLOPE DRAINS
- C205: SUBSURFACE DRAINS
- C206: LEVEL SPREADER
- ➤C207: CHECK DAMS
- C208: TRIANGULAR SILT DIKE (TSD)(GEOTEXTILE-ENCASED CHECK DAM)

7. PROTECT DRAIN INLETS

PROTECT ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (UNLESS A DIFFERENT STANDARD IS SPECIFIED BY THE PRODUCT MANUFACTURER). INLETS SHOULD BE INSPECTED WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.

BMP's
- ➤C220: STORM DRAIN INLET PROTECTION

8. STABILIZE CHANNELS AND OUTFALLS

CONSTRUCT AND STABILIZE ALL ON-SITE CONVEYANCE CHANNELS TO PREVENT EROSION. PROVIDE STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAMBANKS, SLOPES, AND DOWNSTREAM REACHES AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS. STABILIZE CHANNEL BY PLACING BLANKET PRODUCT FIRST, THEN ADD CHECK DAMS AS NECESSARY TO FUNCTION AS AN ANCHOR AND TO SLOW THE FLOW OF WATER.

BMP's
- ➤C202: CHANNEL LINING
- C122: NETS AND BLANKETS
- ➤C207: CHECK DAMS
- C209: OUTLET PROTECTION

9. CONTROL POLLUTANTS

INSTALL, IMPLEMENT, AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS. HANDLE AND DISPOSE OF ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON-SITE IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

BMP's
- ➤C151: CONCRETE HANDLING
- ➤C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION
- C153: MATERIAL DELIVERY, STORAGE AND CONTAINMENT
- ➤C154: CONCRETE WASHOUT AREA
- C250: CONSTRUCTION STORMWATER CHEMICAL TREATMENT
- C251: CONSTRUCTION STORMWATER FILTRATION
- C252: HIGH PH NEUTRALIZATION USING CO2
- C253: PH CONTROL FOR HIGH PH WATER

10. CONTROL DEWATERING

DISCHARGE CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT #8, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS OR INTERFERE WITH THE OPERATION OF THE SYSTEM. HANDLE HIGHLY TURBID OR CONTAMINATED DEWATERING WATER SEPARATELY FROM STORMWATER.

BMP's
- C203: WATER BARS
- C236: VEGETATIVE FILTRATION

11. MAINTAIN BMP's

KEEP QUANTITIES OF EROSION PREVENTION AND SEDIMENT CONTROL MATERIALS ON THE PROJECT SITE AT ALL TIMES TO BE USED FOR REGULAR MAINTENANCE AND EMERGENCY SITUATIONS SUCH AS UNEXPECTED HEAVY SUMMER RAINS. MAINTAIN AND REPAIR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION IN ACCORDANCE WITH BMP SPECIFICATIONS. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS WITHIN 30 DAYS AFTER ACHIEVING FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PROVIDE PROTECTION TO ALL BMPS INSTALLED FOR THE PERMANENT CONTROL OF STORMWATER FROM SEDIMENT AND COMPACTION. ALL BMPS THAT ARE TO REMAIN IN PLACE FOLLOWING COMPLETION OF CONSTRUCTION SHALL BE EXAMINED AND PLACED IN FULL OPERATING CONDITIONS. IF SEDIMENT ENTERS THE BMPS DURING CONSTRUCTION, IT SHALL BE REMOVED AND THE FACILITY SHALL BE RETURNED TO THE CONDITIONS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

12. MANAGE THE PROJECT

INSPECT, MAINTAIN, AND REPAIR ALL BMPS AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. CONDUCT SITE INSPECTIONS AND MONITORING IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT OR LOCAL PLAN APPROVAL AUTHORITY. MAINTAIN, UPDATE, AND IMPLEMENT THE SWPPP IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT. ALL BMPS MUST BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SITE INSPECTIONS MUST BE CONDUCTED BY A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL.

13. PROTECT LOW IMPACT DEVELOPMENT

PROTECT ALL BIORETENTION AND RAIN GARDEN BMPS FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIORETENTION AND/OR RAIN GARDEN BMPS. RESTORE THE BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.

PREVENT COMPACTING BIORETENTION AND RAIN GARDEN BMPS BY EXCLUDING CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.

CONTROL EROSION AND AVOID INTRODUCING SEDIMENT FROM SURROUNDING LAND USES ONTO PERMEABLE PAVEMENTS. DO NOT ALLOW MUDDY CONSTRUCTION EQUIPMENT ON THE BASE MATERIAL OR PAVEMENT. DO NOT ALLOW SEDIMENT-LADEN RUNOFF ONTO PERMEABLE PAVEMENTS.

PAVEMENTS FOULED WITH SEDIMENTS OR NO LONGER PASSING AN INITIAL INFILTRATION TEST MUST BE CLEANED USING PROCEDURES FROM THE LOCAL STORMWATER MANUAL OR THE MANUFACTURER'S PROCEDURES.

KEEP ALL HEAVY EQUIPMENT OFF EXISTING SOILS UNDER LID FACILITIES THAT HAVE BEEN EXCAVATED TO FINAL GRADE TO RETAIN THE INFILTRATION RATE OF THE SOILS.

LEGEND

➤ DENOTES MINIMUM REQUIRED BMP's. AS SITE WORK PROGRESSES, CONTRACTOR MAY NEED TO INSTALL ADDITIONAL BMP's AS NEEDED.

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS	
			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	
			DESIGNED BY:		REVIEWED BY:		

TerraVista NW LLC
Consulting Engineers
3204 SMOKEY POINT DR, #207
ARLINGTON, WA 98223
360-691-3272
WWW.TERRAVISTANW.COM

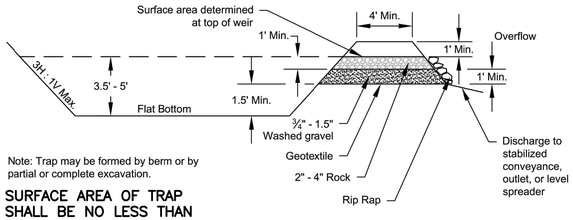
ERIC J SCOTT — STATE OF WASHINGTON — 36704 — REGISTERED PROFESSIONAL ENGINEER — 5/07/20

7C's SWIM SCHOOL
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

SWPPP NOTES

JOB NO. 180706

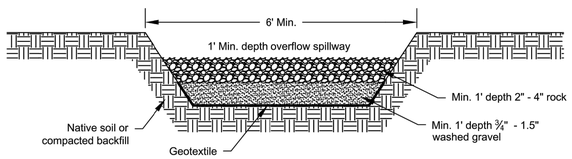
C1.3



Note: Trap may be formed by berm or by partial or complete excavation.

* SURFACE AREA OF TRAP SHALL BE NO LESS THAN 371 SF

SECTION

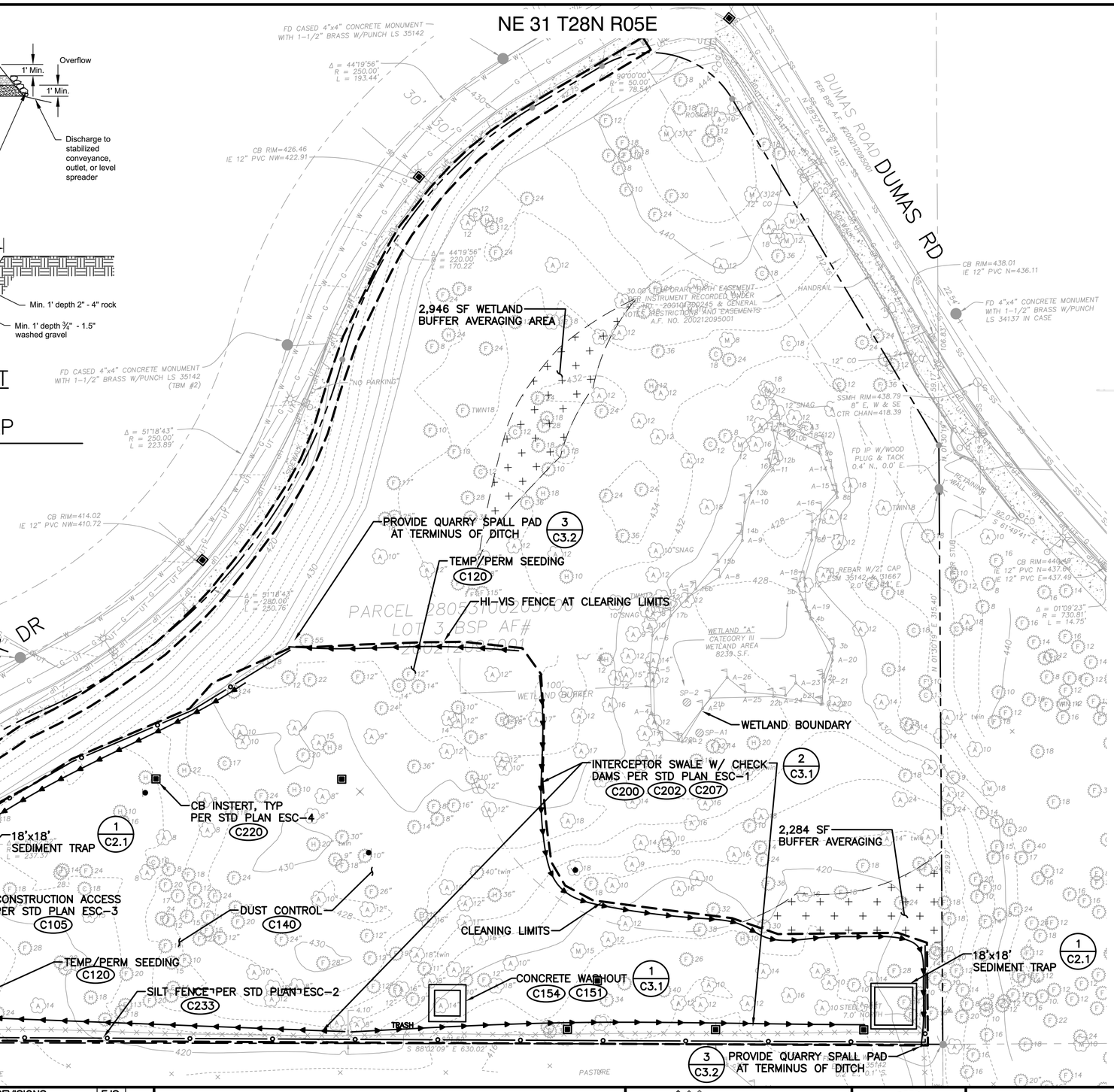


SPILLWAY OUTLET

1 / C2.1

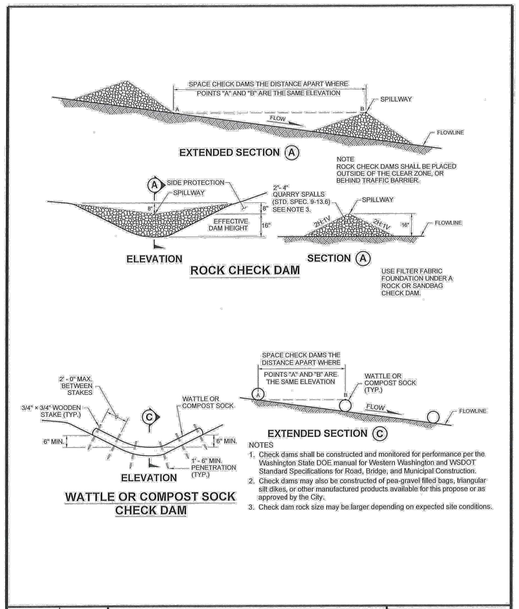
SEDIMENT TRAP

NTS



NOTES:

1. SEE SHEET C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. SEE SHEET C1.3 FOR ELEMENTS OF CONSTRUCTION SWPPP.
3. THE 13 ELEMENTS SHOWN ON C1.3 MUST BE CONSIDERED IN THE DEVELOPMENT OF THE CONSTRUCTION SWPPP UNLESS SITE CONDITIONS RENDER THE ELEMENT UNNECESSARY. IF AN ELEMENT IS CONSIDERED UNNECESSARY, THE CONSTRUCTION SWPPP MUST PROVIDE THE JUSTIFICATION.
4. THE SWPPP ELEMENTS COVER THE GENERAL WATER QUALITY PROTECTION STRATEGIES OF LIMITING SITE IMPACTS, PREVENTING EROSION AND SEDIMENTATION, AND MANAGING ACTIVITIES AND SOURCES.
5. ADDITIONAL INFORMATION AND REQUIREMENTS ARE OUTLINED WITHIN THE SWPPP NARRATIVE INCLUDED WITH THE DRAINAGE REPORT.
6. THE HIGHLIGHTED BMP's SHOWN ON SHEET C1.3 ARE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN AND UTILIZE ADDITIONAL BMP's AS NECESSARY. ADDITIONAL INFORMATION ON EACH BMP CAN BE FOUND IN VOLUME II, CHAPTER 4 OF THE STORMWATER MANAGEMENT MANUAL OF WESTERN WASHINGTON.
7. CATCH BASIN INSERTS SHALL BE PLACED AS SHOWN IN PLAN AND IN ALL CATCH BASINS WITHIN 100' DOWNSLOPE OF DISTURBED AREAS.
8. CONTRACTOR SHALL PLACE A HIGH VISIBILITY FENCE AT CLEARING LIMITS, PER WSDOT STD PLAN I-10.10-01.
9. HABITAT MITIGATION AREAS SHALL BE ENHANCED TO INCLUDE DOWNED LOGS AND BIRD BOXES, AS OUTLINED IN THE BUFFER AVERAGING PLAN PREPARED BY WETLAND RESOURCES, DATED 11/11/2019.



CITY OF Mill Creek WASHINGTON	EROSION CONTROL CHECK DAM NOT TO SCALE	PLAN NO. ESC - 1
	PUBLIC WORKS DEPARTMENT	REV. DATE: 9/21/2016

N

0 30 60

Scale in Feet

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE	5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
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			9/16/19	A	CIVIL PERMIT	EJS
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			DESIGNED BY:		REVIEWED BY:	

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ERIC J SCOTT — STATE OF WASHINGTON — 36704 — REGISTERED PROFESSIONAL ENGINEER — 5/07/20

7C's SWIM SCHOOL

NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

JOB NO. 180706

SWPPP

C2.1

Plotted: May 07, 2020 - 8:42am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C2.1-SWPPP

NE 31 T28N R05E

NORTH CREEK DR

CB RIM=414.02
IE 12" PVC NW=410.72

FD CASED 4"x4" CONCRETE MONUMENT WITH 1-1/2" BRASS W/PUNCH LS 35142

FLOWLINE OF 18" WIDE CURB & GUTTER

CB RIM=408.47
12" PVC W=405.17

Δ = 51°18'43"
R = 280.00'
L = 250.76'

CLEARING LIMITS

LIGHT POLE

HMA PAVEMENT (2 / C3.3)

TYPE "G" FIRE LANE NO PARKING SIGN

SITE TRIANGLE

DRIVEWAY PER STD DETAIL STR-6

VERTICAL CURB AND GUTTER PER STD DETAIL STR-2

SIDEWALK PER STD DETAIL STR-3

"NO PARKING"

FH

FDC

3 STALLS @ 9'=27'

3 STALLS @ 9'=27'

7 STALLS @ 9'=63'

CONC SIDEWALK PER STD DETAIL STR-3, SIM, TYP

(1 / C3.3) VERTICAL CURB, TYP

PARALLEL CURB RAMP PER STD DETAIL STR-8

TYPE "G" FIRE LANE NO PARKING SIGN

CONCRETE PAD, SEE STRUCT

10 STALLS AT 9'=90'

6 STALLS @ 9'=54'

12" CURB CHASE

NGPA SIGN PER STD DETAIL STM-9

WETLAND BUFFER

8 STALLS @ 9'=72'

8 STALLS @ 9'=72'

8 STALLS @ 9'=72'

TRASH

CLEAR VEGETATION AND FENCE WITHIN SITE TRIANGLE. REMOVE 102' OF EXISTING FENCE

ECOLOGY BLOCK RETAINING WALL, HEIGHT VARIES 2' TO 5'

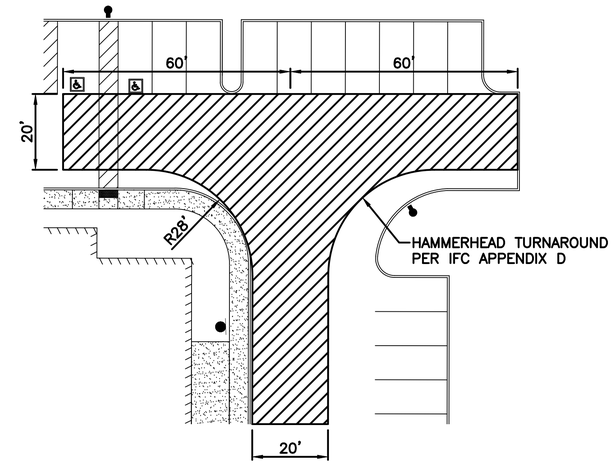
304.00'

30.50

PASTURE

VERTICAL BOARD

Easm LLC 35442
0.2' E., 0.1' S.



1 / -- FIRE APPARATUS HH TURN

1"=20'

NOTES:

1. REFER TO SHEETS C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE.
3. ALL CURBS THAT ARE NOT ADJACENT TO A PARKING SPACE SHALL BE PAINTED RED, TO DELINEATE A NO PARKING FIRE LANE.

N

0 20 40
Scale in Feet

Know what's below. Call before you dig.

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ERIC J SCOTT
STATE OF WASHINGTON
36704
REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL

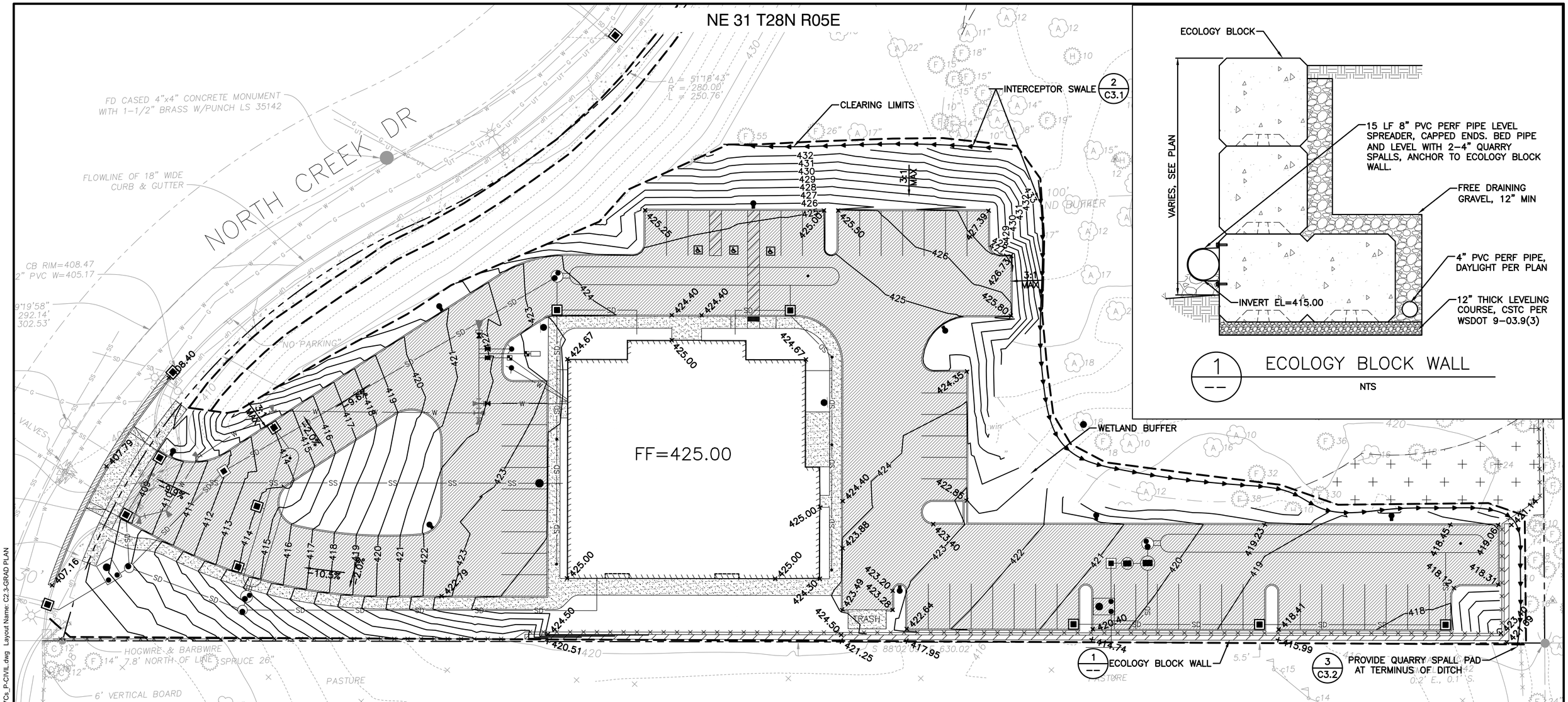
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

PAVING PLAN

JOB NO. 180706

C2.2

Plotted: May 07, 2020 - 8:42am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C2.2 PAVING PLAN



N

0 20 40

Scale in Feet

NOTES:

1. SEE SHEET C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. GRADING WITHIN THE LIMITS OF ADA PARKING STALLS AND ADJACENT PEDESTRIAN PATH, SHALL BE GRADED WITH A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS. REFER TO ADA NOTES ON SHEET C1.2. BLEND GRADING WITH ADJACENT DRIVE ISLE.
3. SPOT ELEVATIONS ARE AT BOTTOM OF CURB, UNLESS NOTED OTHERWISE.
4. TYPE 1 CB SHALL BE PER STD DETAIL STM-1
5. UTILITY TRENCH SHALL BE PER STD DETAIL STM-10

Know what's below. Call before you dig.

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			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	
			DESIGNED BY:		REVIEWED BY:		

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STATE OF WASHINGTON ERIC J SCOTT 36704 REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL

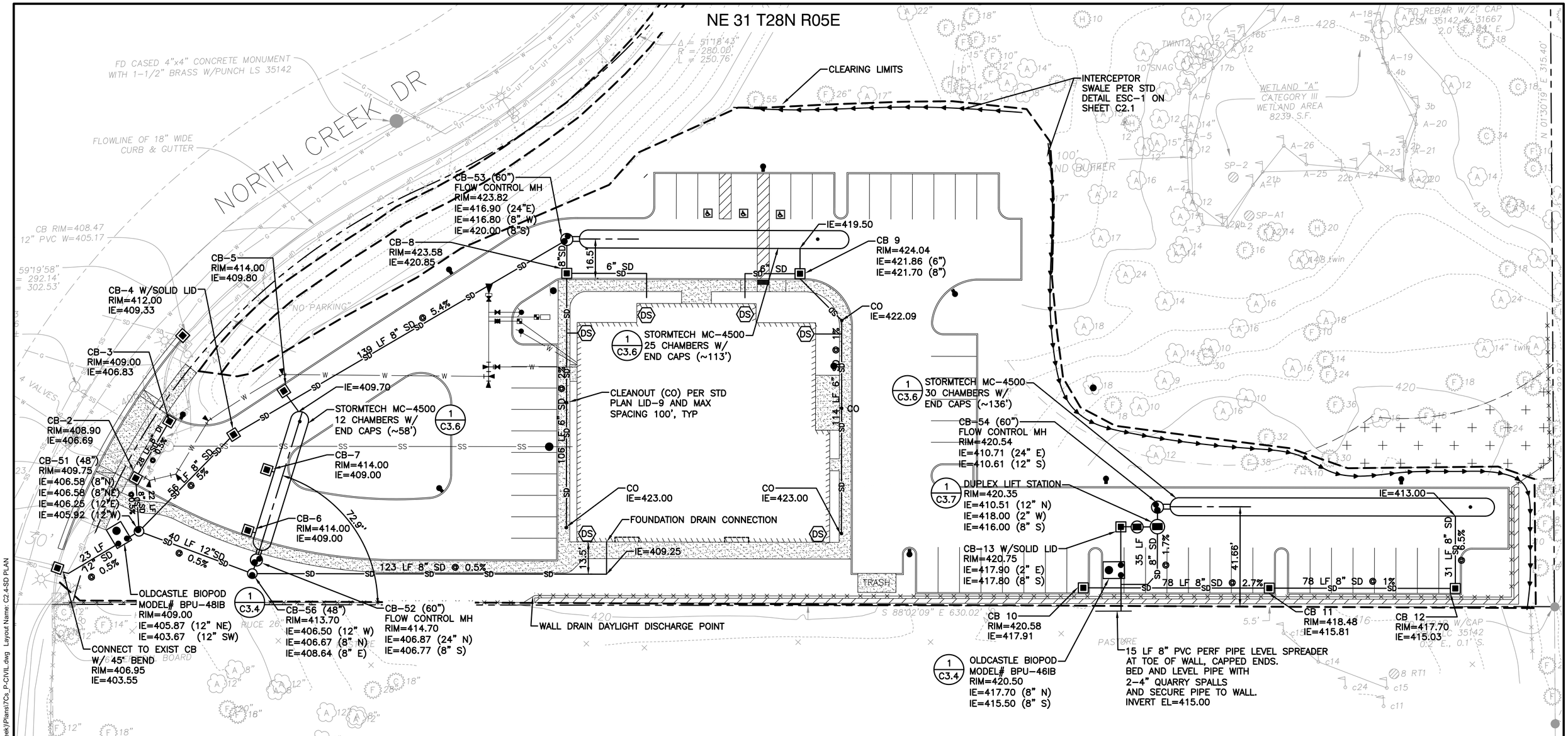
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

JOB NO. 180706

GRADING PLAN

C2.3

Plotted: May 07, 2020 - 8:42am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C2.3-GRAD PLAN



NOTES:

1. SEE SHEET C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. UNLESS NOTED OTHERWISE, CB 1 TO 20 SHALL BE A TYPE 1 CB PER STD PLAN STM-1.
3. CB 2, 3, 10, 11, AND 12 SHALL BE A CURB INLET PER STD PLAN STM-4.
4. CB 50 TO 60 SHALL BE A TYPE 2 CB PER STD PLAN STM-2. SIZE SHOWN ON PLAN.

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE	DATE	NO.	REVISION	BY
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
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			9/16/19	A	CIVIL PERMIT	EJS

DESIGNED BY: REVIEWED BY:

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ERIC J SCOTT — STATE OF WASHINGTON — 36704 — REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL

NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

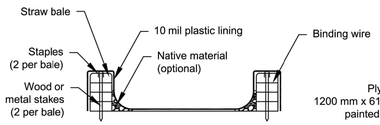
JOB NO. 180706

DRAINAGE PLAN

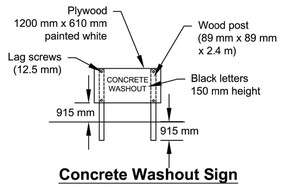
C2.4

Plotted: May 07, 2020 - 8:42am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C2.4-SD PLAN

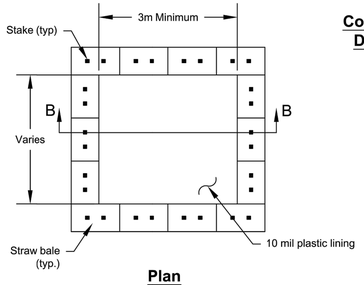
NE 31 T28N R05E



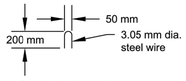
Section B-B



Concrete Washout Sign Detail (or equivalent)



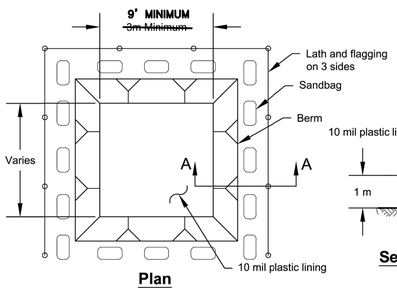
Plan



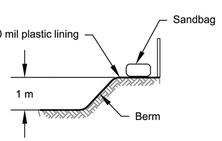
Staple Detail

Notes:
1. Actual layout determined in the field.
2. The concrete washout sign shall be installed within 10 m of the temporary concrete washout facility.

Type "Above Grade" with Straw Bales



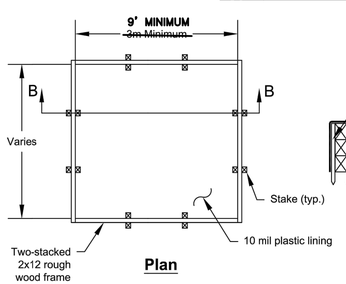
Plan



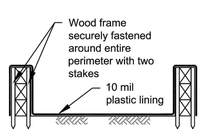
Section A-A

Type "Below Grade"

Notes:
1. Actual layout determined in the field.
2. A concrete washout sign shall be installed within 10 m of the temporary concrete washout facility.



Plan

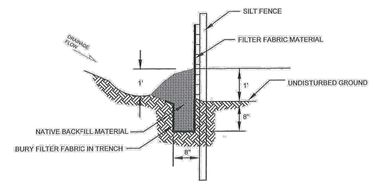


Section B-B

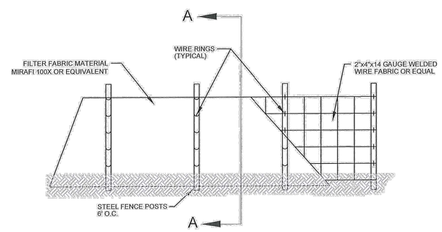
Type "Above Grade" with Wood Planks

1 / C2.1 CONCRETE WASH AREA

NTS



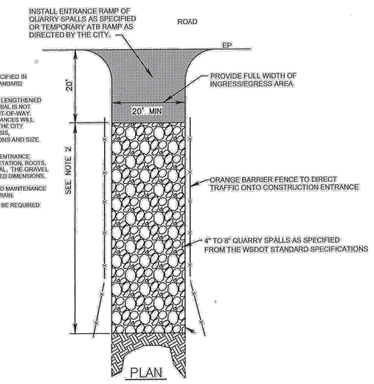
SECTION A-A



ELEVATION

NOTES:
1. INSTALL THE SILT FENCE FIRST. AFTER THE SILT FENCE HAS BEEN INSTALLED, DIG TRENCH, BURY FILTER FABRIC IN TRENCH AND FILL WITH NATIVE BACKFILL MATERIAL.
2. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CITY OF Mill Creek WASHINGTON	EROSION CONTROL **SILT FENCE** NOT TO SCALE	PLAN NO. **ESC - 2**
	PUBLIC WORKS DEPARTMENT	REV. DATE: 9/22/2016

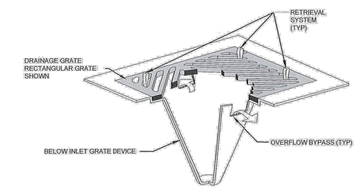


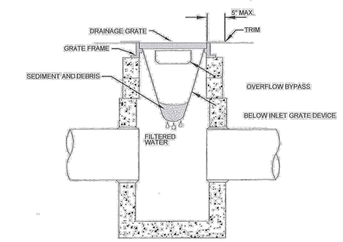
NOTES:
1. 4" TO 8" QUARRY SPALLS AS SPECIFIED IN SECTION 9-13.6 OF THE WSDOT STANDARD SPECIFICATIONS.
2. THE MINIMUM LENGTH SHALL BE LENGTHENED AS NECESSARY TO ENSURE MATERIAL IS NOT TRACKED INTO THE PUBLIC RIGHT-OF-WAY. THE LENGTHENED ENTRANCE MAY BE A WELL, AS ALLOWED WITH APPROVAL OF THE CITY ENGINEER ON A CASE BY CASE BASIS, WHERE PHYSICAL SITE CONDITIONS AND SIZE DICTATE.
3. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS.
4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
5. TRUCK TIRE WASH REQUIRED MAY BE REQUIRED BY CITY ENGINEER.

PLAN

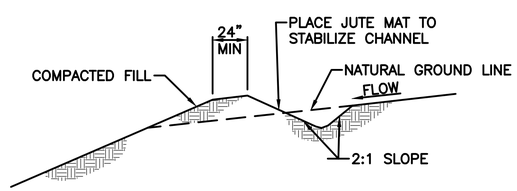
CITY OF Mill Creek WASHINGTON	EROSION CONTROL **GRAVEL CONSTRUCTION ENTRANCE** NOT TO SCALE	PLAN NO. **ESC- 3**
	PUBLIC WORKS DEPARTMENT	REV. DATE: 9/22/2016

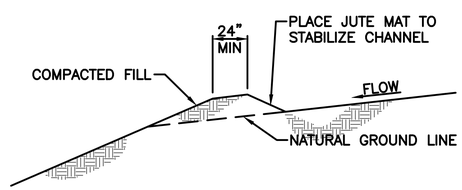
NOTES:
1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT THE COLLECTED MATERIAL.
4. PEIRFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).





CITY OF Mill Creek WASHINGTON	EROSION CONTROL **CATCH BASIN INLET PROTECTION** NOT TO SCALE	PLAN NO. **ESC- 4**
	PUBLIC WORKS DEPARTMENT	REV. DATE: 9/22/2016



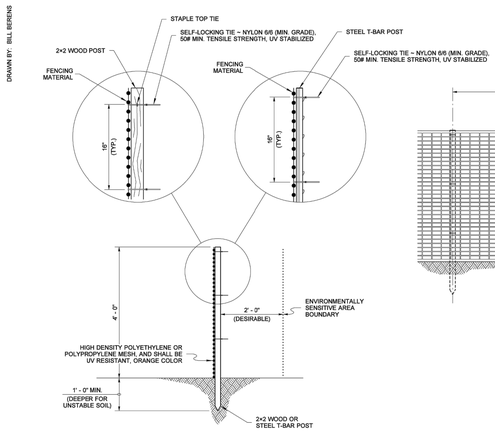


PROVIDE CHECK DAMS
PER STD PLAN ESC-1 ON
SHEET C2.1

2 / C2.1 INTERCEPTOR SWALE

SCALE 1"=4' (1/4"=1'0")

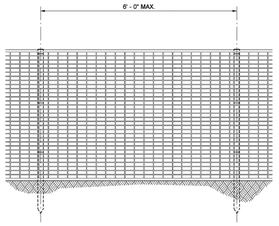
DRAWN BY: BILL BERENS



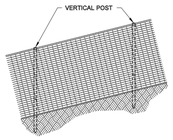
TYPICAL SECTION

NOTE

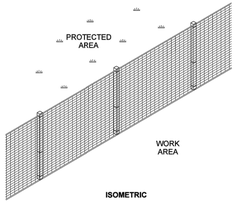
1. Post shall have sufficient strength and durability to support the fence through the life of the project.



ELEVATION



ELEVATION
FENCE ON SLOPE



ISOMETRIC

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNTIL IT BEARS THE WET AND ORIGINAL SIGNATURE OF THE ENGINEER AND APPROVED FOR PUBLICATION. IS NOT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

HIGH VISIBILITY FENCE

STANDARD PLAN I-10.10-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 08-11-09

STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS	
			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	
			DESIGNED BY:		REVIEWED BY:		

TerraVista NW LLC
Consulting Engineers
3204 SMOKEY POINT DR. #207
ARLINGTON, WA 98223
360-691-9272
WWW.TERRAVISTANW.COM

ERIC J SCOTT — STATE OF WASHINGTON — 36704 — REGISTERED PROFESSIONAL ENGINEER — 5/07/20

7C's SWIM SCHOOL

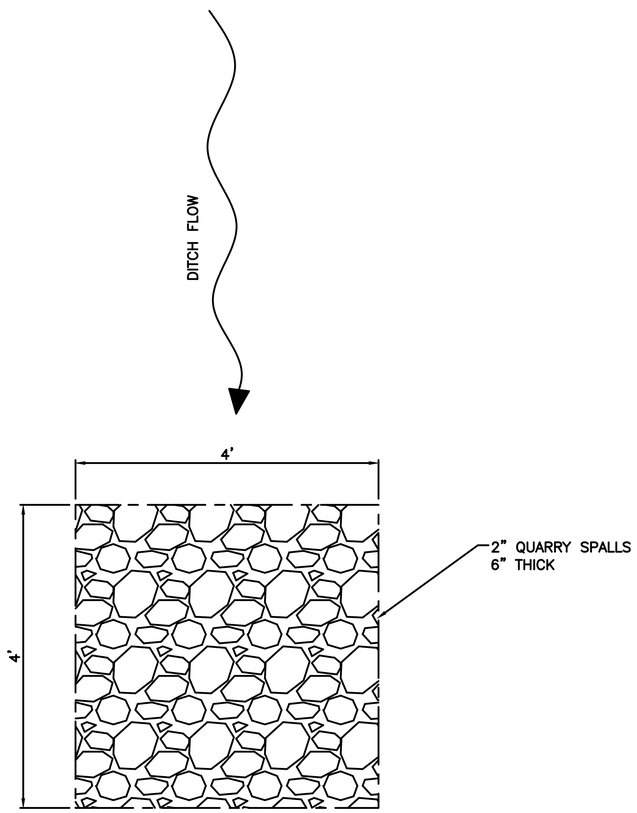
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

SWPPP DETAILS

JOB NO. 180706

C3.1

NE 31 T28N R05E



3
C2.3

QUARRY SPALL PAD

N.T.S.

Know what's below.
Call before you dig.

PLAN CHECK	BY	DATE	5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS
			9/16/19	A	CIVIL PERMIT	EJS
			DATE	NO.	REVISION	BY

DESIGNED BY: REVIEWED BY:

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ARLINGTON, WA 98223
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ERIC J SCOTT
STATE OF WASHINGTON
36704
REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL

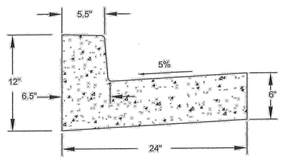
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

SWPPP DETAILS

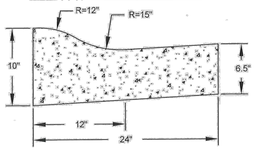
JOB NO. 180706

C3.2

NE 31 T28N R05E



VERTICAL CURB & GUTTER



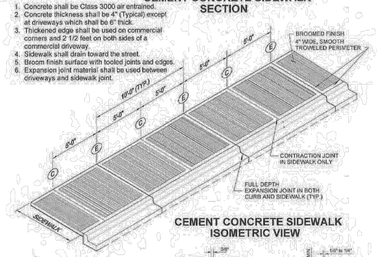
ROLLED CURB & GUTTER

NOTES:
1. Concrete shall be Class 3000 air-entrained.
2. Base shall be Crushed Surfacing Top Course, per WSDOT sec. 9-03.9(3) with a minumum depth of 4 inch. In-situ native material may be used for a base if approved by the City. Sub-grade compaction shall meet a min. 95% of max. density.
3. Steel forms shall be used on all straight sections. Wood forms shall be used on radius.
4. Full depth expansion joints shall be placed at 10 feet center to center, at the top of each driveway, at top of access ramps, and on both sides of a catch basin. (Joint material shall be min. 3/8" premolded joint material factory cut to the shape of the curb. Strips of joint material shall not be stacked.)
5. Finish shall be broomed with tooled edges. All joints shall be clean.

CITY OF Mill Creek WASHINGTON	STREET ROLLED AND VERTICAL CURB NOT TO SCALE PUBLIC WORKS DEPARTMENT	PLAN NO. STR-2 REV. DATE: 9/20/2016

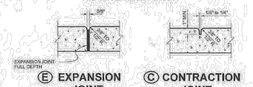
CEMENT CONCRETE SIDEWALK SECTION

NOTES:
1. Concrete shall be Class 3000 air entrained.
2. Concrete thickness shall be 4" (Typical) except at driveways which shall be 6" thick.
3. Thickened edge shall be used on commercial corners and 2 1/2 feet on both sides of a commercial driveway.
4. Sidewalk shall drain toward the street.
5. Broom finish surface with tooled joints and edges.
6. Expansion joint material shall be used between driveways and sidewalk joint.



CEMENT CONCRETE SIDEWALK ISOMETRIC VIEW

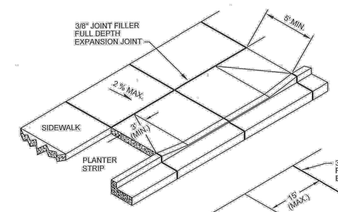
MIN. SIDEWALK WIDTHS
RESIDENTIAL & COMMERCIAL 5 FT.
ARTERIALS 8 FT.
USE AS MULTI-PURPOSE TRAIL 10 FT.



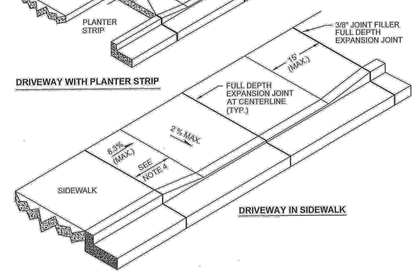
Ⓔ EXPANSION JOINT Ⓒ CONTRACTION JOINT

CITY OF Mill Creek WASHINGTON	STREET CEMENT CONCRETE SIDEWALK NOT TO SCALE ENGINEERING DEPARTMENT	PLAN NO. STR-3 REV. DATE: 4/7/2016

NOTES:
1. Curb and Apron to be poured separately. Monolithic curb and apron is not allowed.
2. Driveway shall be 6 inches thick Class 3000 concrete air entrained.
3. Broom finish surface with tooled joints and edges.
4. The maximum running slope shall not exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep road and curb grades. Transition panels on each side of driveway shall be equal in length for each driveway.

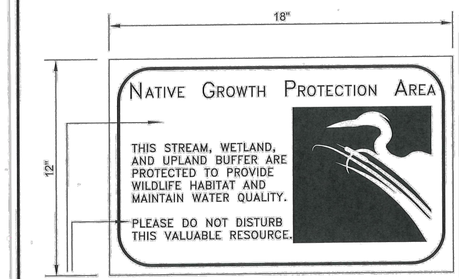


DRIVEWAY WITH PLANTER STRIP



DRIVEWAY IN SIDEWALK

CITY OF Mill Creek WASHINGTON	STREET VERTICAL CURB DRIVEWAY NOT TO SCALE PUBLIC WORKS DEPARTMENT	PLAN NO. STR - 6 REV. DATE: 9/20/2016



NATIVE GROWTH PROTECTION AREA SIGNAGE

CONTACT CITY OF MILL CREEK SURFACE WATER SECTION FOR ARTWORK CAD FILE FOR THIS SIGN.

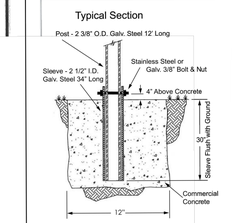
FOREGROUND COLOR PMS # 340C (PANTONE COLOR FORMULA GUIDE)

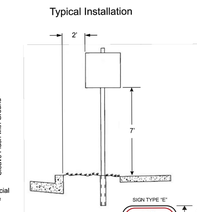
BACKGROUND COLOR WHITE

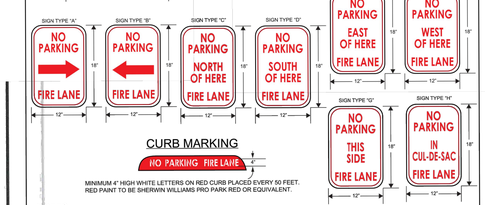
NOTES:
1. ENGINEER GRADE SHEETING ON .080 ALUMINUM
2. ATTACH SIGN POST WITH (2) 5/16" GALVANIZED LAG BOLTS WITH WASHERS
3. POST SIGN ON 4"x4" CEDAR POST AT 5'-6" FROM GROUND

CITY OF Mill Creek WASHINGTON	STORM WATER NATIVE GROWTH PROTECTION SIGN NOT TO SCALE PUBLIC WORKS DEPARTMENT	PLAN NO. STM - 9 REV. DATE: 9/21/2016

FIRE LANE SIGNAGE & MARKING & STANDARD SIGN INSTALL





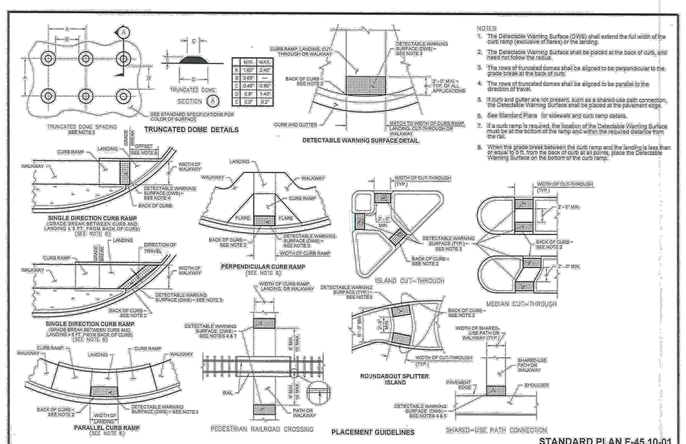


CURB MARKING

MINIMUM 4" HIGH WHITE LETTERS ON RED CURB PLACED EVERY 50 FEET. RED PAINT TO BE SHERWIN WILLIAMS PRO PARK RED OR EQUIVALENT.

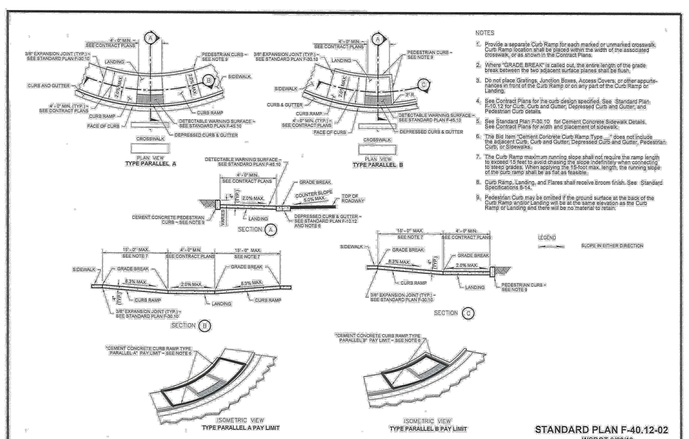
NOTES:
1. NO PARKING—FIRE LANE SIGNS SHALL HAVE A MINIMUM DIMENSION OF 12 INCHES (305 MM) WIDE BY 18 INCHES (457 MM) HIGH AND HAVE RED LETTERS AND GRAPHICS ON A WHITE REFLECTIVE BACKGROUND.
2. FIRE LANES ALONG CURBS SHALL BE MARKED WITH EITHER SIGNAGE, OR RED-PAINTED CURBS, OR BOTH.
3. A FIRE LANE IS REQUIRED FOR ALL ROADWAYS WITH A TOTAL, UNDIVIDED TRAVEL LANE WIDTH OF < 32 FEET.
4. ROADWAYS < 26 FEET WIDE SHALL BE MARKED AS FIRE LANES ON BOTH SIDES OF THE ROADWAY
5. ROADWAYS > 26 FEET WIDE AND < 32 FEET WIDE SHALL BE MARKED AS A FIRE LANE ON ONE SIDE OF THE ROADWAY.
6. PORTIONS OF ROADWAYS WHERE THERE IS < 36" LATERAL CLEARANCE TO A FIRE HYDRANT OR FIRE DEPARTMENT CONNECTION SHALL BE MARKED AS A FIRE LANE 15 FEET IN BOTH DIRECTIONS FROM SUCH APPLIANCE.
7. WHERE RED-PAINTED CURBS ARE USED TO IDENTIFY FIRE LANES, SUCH PAINT SHALL EXTEND THE ENTIRE CURB LENGTH OF SUCH DESIGNATED FIRE LANE.
8. WHERE SIGNAGE IS USED TO IDENTIFY FIRE LANES, AND SUCH FIRE LANE EXCEEDS 50 FEET IN LENGTH, INTERMEDIATE FIRE LANE SIGNS SHALL BE PLACED EVERY 50 FEET.
9. TYPE 'A' AND TYPE 'B' FIRE LANE SIGNS SHALL BE PLACED PARALLEL TO THE ROAD EDGE TO WHICH THEY APPLY. UNLESS DIRECTLY DIFFERENTLY, ALL OTHER FIRE LANE SIGNS SHALL BE PLACED PERPENDICULAR TO THE ROADWAY.

CITY OF Mill Creek WASHINGTON	DESCRIPTION FIRE LANE SIGNAGE & MARKING		DESIGNATION FIRE LANE
	SCALE NOT TO SCALE	REVISED JANUARY 17, 2018	



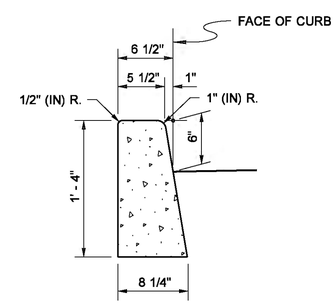
STANDARD PLAN F-45.10-01
WSDOT 6/20/13

CITY OF Mill Creek WASHINGTON	STREET DETECTABLE WARNING SURFACE NOT TO SCALE PUBLIC WORKS DEPARTMENT	PLAN NO. STR - 11 REV. DATE: 9/21/2016



STANDARD PLAN F-40.12-02
WSDOT 6/20/13

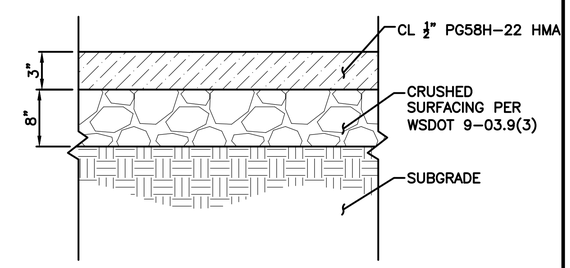
CITY OF Mill Creek WASHINGTON	STREET PARALLEL CURB RAMP NOT TO SCALE PUBLIC WORKS DEPARTMENT	PLAN NO. STR - 8 REV. DATE: 9/20/2016



CEMENT CONCRETE TRAFFIC CURB

1 / C2.2 VERTICAL CURB

NTS



2 / C2.2 HMA TYPE 1

NTS

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS	
			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	
			DESIGNED BY:		REVIEWED BY:		

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ARLINGTON, WA 98223
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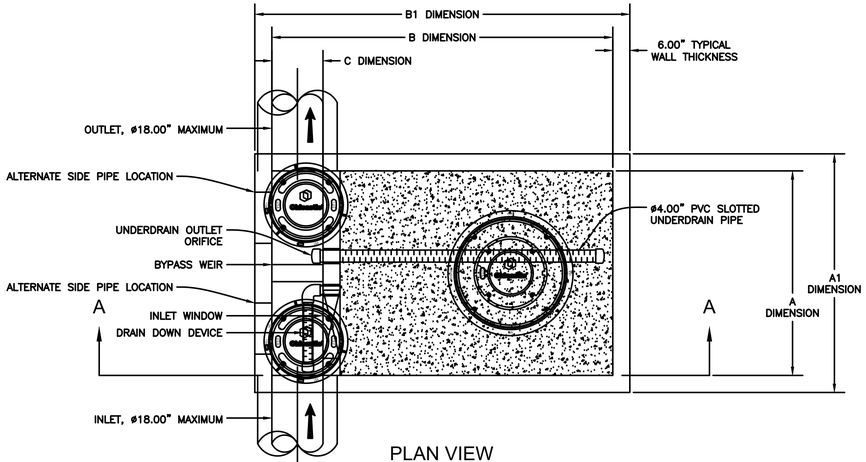
STATE OF WASHINGTON ERIC J SCOTT 36704 REGISTERED PROFESSIONAL ENGINEER 5/07/20

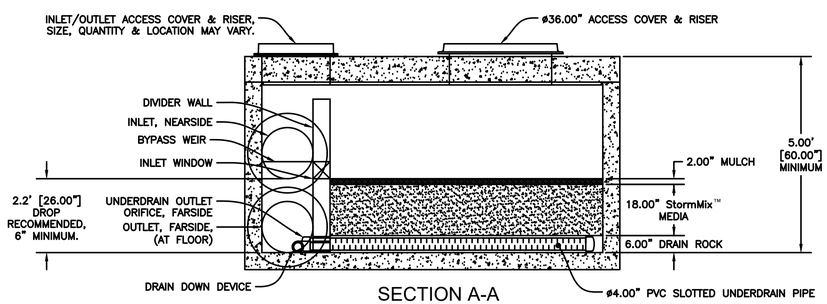
7C's SWIM SCHOOL NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012	JOB NO. 180706
PAVING DETAILS	C3.3

NE 31 T28N R05E



PLAN VIEW

TOP SLAB NOT SHOWN IN THIS VIEW FOR CLARITY, ACCESS COVERS SHOWN IN PHANTOM.



SECTION A-A

MODEL	VAULT SIZE [1] (ID)			VAULT FOOTPRINT [1] (OD)		TREATMENT FLOW CAPACITY (GPM/CFS)	
	A DIM	B DIM	C DIM	A1 DIM	B1 DIM	1.6 GPM/SF (WA GULD[2])	1.8 GPM/SF (NJCAT[3])
BPU-46IB	4'	6'	1.5'	5'	7'	25.6 / 0.057	28.8 / 0.064
BPU-48IB	4'	8'	1.5'	5'	9'	38.4 / 0.086	43.2 / 0.096
BPU-412IB	4'	12'	1.5'	5'	13'	64.0 / 0.143	72.0 / 0.160
BPU-66IB	6'	6'	1.5'	7'	7'	38.4 / 0.086	43.2 / 0.096
BPU-68IB	6'	8'	1.5'	7'	9'	57.6 / 0.128	64.8 / 0.144
BPU-612IB	6'	12'	2'	7'	13'	91.2 / 0.203	102.6 / 0.229
BPU-816IB	8'	16'	2'	9'	17'	172.8 / 0.385	194.4 / 0.433

[1] All Dimensions are nominal, ID=Inside Dimension, OD=Outside Dimension.
[2] Treatment flow capacity at 1.6 gpm/sf media surface area based on an WA Ecology GULD Approval for Basic, Enhanced & Phosphorus.
[3] Treatment flow capacity at 1.8 gpm/sf media surface area based on an NJCAT Verification & NJ DEP Certification.

SITE SPECIFIC DATA				
Structure ID				
Model Size				
Orientation (Left or Right)				
Treatment Flow Rate (cfs)				
Peak Flow Rate (cfs)				
Rim Elevation				
Pipe Data	Pipe Location (Front or Side)	Pipe Size	Pipe Type	Invert Elevation
Inlet				
Outlet				
Notes:				

US Patents Pending

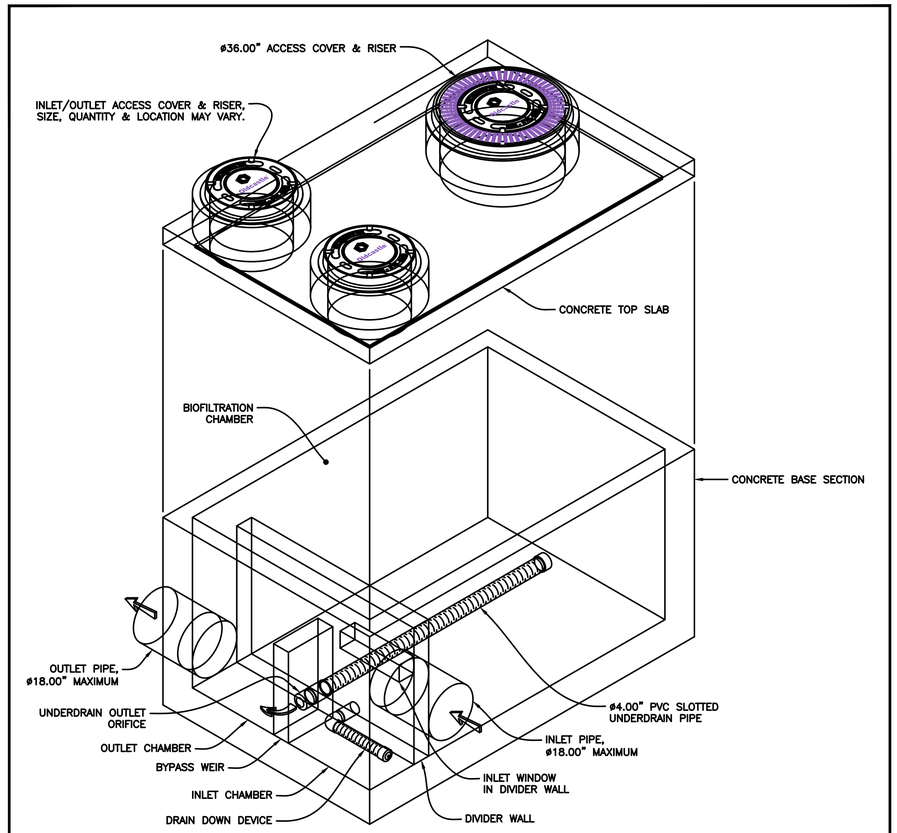
Bioretention/ Biofiltration

BioPod™ Biofilter Underground

Vault with Internal Bypass

Oldcastle Infrastructure™ A CRH COMPANY

DRAWING NO.	REV	ECO	DATE	
BPU-IB	B	ECO-0161 ARG 5/1/19	MJW 5/6/19	SHEET 2 OF 2



ISOMETRIC VIEW

FILTER MEDIA & DRAIN ROCK NOT SHOWN FOR CLARITY.
SCALE: 1X

NOTES:
1. LEFT CONFIGURATION SHOWN, MIRROR RIGHT CONFIGURATION OF INLET AND OUTLET CHAMBER AVAILABLE.
2. CONTACT OLDCASTLE INFRASTRUCTURE FOR ENGINEERING ASSISTANCE AND DETAIL DRAWINGS.
3. CONCRETE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C890 & C913.

US Patents Pending

Bioretention/ Biofiltration

BioPod™ Biofilter Underground

Vault with Internal Bypass

Oldcastle Infrastructure™ A CRH COMPANY

DRAWING NO.	REV	ECO	DATE	
BPU-IB	B	ECO-0161 ARG 5/1/19	MJW 5/6/19	SHEET 1 OF 2

1 / C2.4 BIOPOD UNDERGROUND

NTS

811 Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
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STATE OF WASHINGTON ERIC J SCOTT 36704 REGISTERED PROFESSIONAL ENGINEER 5/07/20

7C's SWIM SCHOOL

NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

JOB NO. 180706

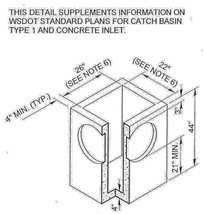
DRAINAGE DETAILS

C3.4

Plotted: May 07, 2020 - 8:43am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C3.4-SD DET

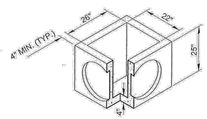
NE 31 T28N R05E

THIS DETAIL SUPPLEMENTS INFORMATION ON WSDOT STANDARD PLANS FOR CATCH BASIN TYPE 1 AND CONCRETE INLET.



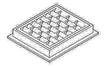
PRECAST BASE SECTION

REBAR NOT SHOWN FOR CLARITY.

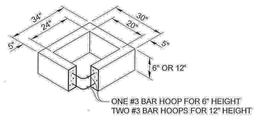


CONCRETE INLET

REBAR NOT SHOWN FOR CLARITY.



FRAME AND VANED GRATE



6" or 12" CONCRETE RISER

PIPE ALLOWANCES FOR CATCH BASIN TYPE 1 and CONCRETE INLET.	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPESP.* (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

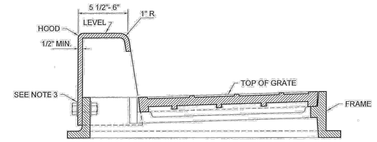
* CORRUGATED POLYETHYLENE STORM SEWER PIPE.

NOTES

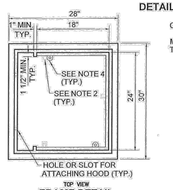
1. Base to be constructed and installed in accordance with WSDOT specifications (Section 7-05) for Catch Basin Type I and Concrete Inlet, or as approved by the City Engineer.
2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with WSDOT Standard Specification 9-04.3. All side access into the base shall be through a precast knockout.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the precast base section.
7. All pickup holes shall be grouted full after the basin has been placed.

CITY OF Mill Creek WASHINGTON

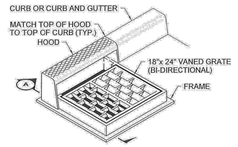
STORM WATER
CATCH BASIN TYPE 1 AND CONCRETE INLET
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. STM - 1
REV. DATE: 9/21/2016



DETAIL SECTION (A)



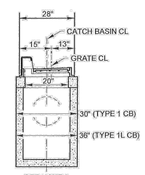
TOP VIEW
FRAME DETAIL



ISOMETRIC VIEW

NOTES

1. The asymmetry of the Combination Inlet shall be considered when calculating the offset distance for the catch basin.
2. The dimensions of the Frame and Hood may vary slightly among different manufacturers. The Frame may have cast features intended to support a grate guard. Hood units shall mount outside of the Frame.
3. Attach the Hood to the frame with two 3/4" × 2" hex head bolts, nuts, and oversize washers. The washers shall have diameters adequate to assure full bearing across the slots.
4. When bolt-down grates are specified in the contract, provide two tap holes to accept a 5/8" x -11 NC x 2" allen head cap screw in the frame that are vertically aligned with the grate slots.
5. Only ductile iron Vaned Grates shall be used. Refer to Standard Specification 9-05.15(2) for additional requirements.
6. This plan is intended to show the installation details of a manufactured product. It is not the intent of this plan to show the specific details necessary to fabricate the castings shown on this drawing. Through curb catch basin shall be 2-way vaned grate with 9" diamond plate hood with H20 rating (Olympic Foundary Item No. SM52VG) or approved equal.

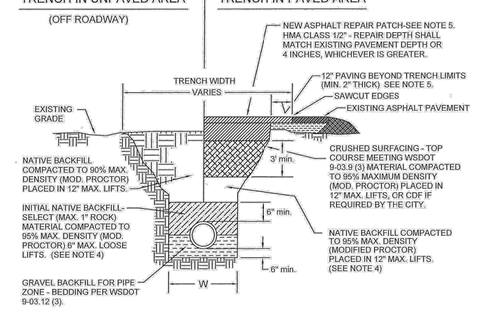


SECTION (A)

CITY OF Mill Creek WASHINGTON

STORM WATER
THROUGH CURB INLET
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. STM - 4
REV. DATE: 9/21/2016

TRENCH IN UNPAVED AREA (OFF ROADWAY) | TRENCH IN PAVED AREA



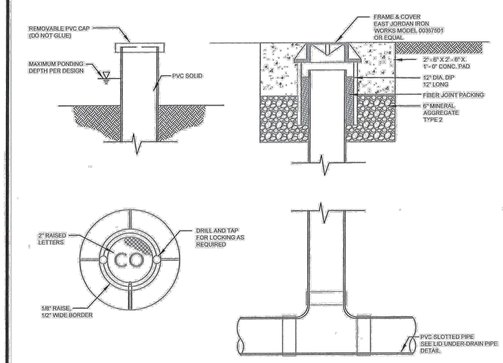
W = 40" FOR 15" DIAMETER PIPE & SMALLER.
W = 1 1/2" X PIPE DIAMETER +18" FOR PIPE 18" IN DIAMETER AND LARGER.

NOTES:

1. EXISTING ASPHALT PAVEMENT MUST BE SAWCUT TO PROVIDE A CLEAN STRAIGHT EDGE BEFORE PIPE PLACEMENT.
2. EXISTING MATERIAL DISTURBED UNDER THE PIPE SHALL BE REPLACED WITH BEDDING MATERIAL AND COMPACTED TO 95% MAX. DENSITY.
3. BACK MATERIAL SHALL BE INSTALLED IN AN APPROVED MANNER TO ENSURE NO DAMAGES TO THE PIPE.
4. IF NATIVE BACKFILL IS DETERMINED UNSATISFACTORY BY THE CITY, USE CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9 (3)
5. SEE MILL CREEK MUNICIPAL CODE SECTION 12.18.060 FOR PAVEMENT PATCHING STANDARDS.

CITY OF Mill Creek WASHINGTON

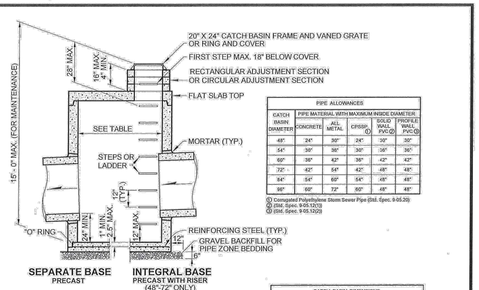
STORM WATER
TYPICAL TRENCH DETAIL
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. STM - 10
REV. DATE: 9/21/2016



NOTE:
LOCATE CLEAN OUTS EVERY 100 FEET IN PAVED AREAS ADJACENT TO BIORETENTION OR PERVIOUS PAVEMENT WHERE POSSIBLE.

CITY OF Mill Creek WASHINGTON

LOW IMPACT DEVELOPMENT
LID CLEAN OUT
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. LID-9
REV. DATE: 9/23/2016



SEPARATE BASE
PRECAST

INTEGRAL BASE
PRECAST WITH RISER (48"-72" ONLY)

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPESP. (1)	SOLID WALL PVC (2)	PROFILE WALL PVC (3)
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"

(1) Corrugated Polyethylene Storm Sewer Pipe (Std. Spec. 9-05.20)
(2) (Std. Spec. 9-05.12(1))
(3) (Std. Spec. 9-05.12(2))

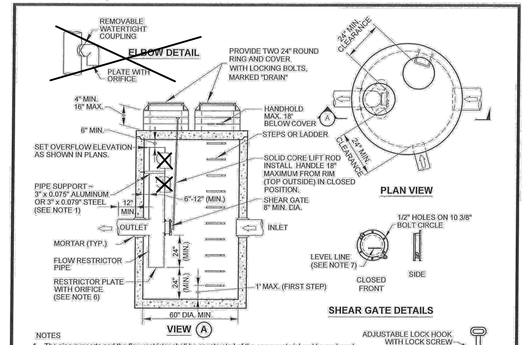
CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	8"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"

NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.

CITY OF Mill Creek WASHINGTON

STORM WATER
CATCH BASIN TYPE 2
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. STM - 2
REV. DATE: 9/21/2016



NOTES

1. The pipe supports and the flow restrictor shall be constructed of the same material and be anchored at a maximum spacing of 36". Attach the pipe supports to the manhole with 5/8" stainless steel expansion bolts or embed the supports into the manhole wall 2".
2. The vertical riser stem of the flow restrictor shall be the same diameter as the horizontal outlet pipe with a minimum diameter of 8". The overflow pipe and outlet pipe must have a combined capacity equal to or greater than the total inlet volume.
3. The flow restrictor shall be fabricated from one of the following materials:
   0.060" Corrugated Aluminum Alloy Drain Pipe
   0.064" Corrugated Galvanized Steel Drain Pipe with Treatment 1
   0.064" Corrugated Aluminized Steel Drain Pipe
4. The frame and ladder or steps are to be offset so that the shear gate is visible from the top; the climb-down space is clear of the riser and gate, and the frame is clear of the curb.
5. The multi-orifice elbows may be located as shown, or all placed on one side of the riser to assure ladder clearance. The size of the elbows and their placement shall be specified in the plans.
6. Restrictor plate with orifice as specified in the plans. The opening shall be cut round and smooth.
7. The shear gate shall be made of aluminum alloy in accordance with ASTM B 26 and ASTM B 275, designation ZG32A; or cast iron in accordance with ASTM A 48, Class 30B.
   The lift handle shall be made of a similar metal to the gate (to prevent galvanic corrosion), and shall be of solid rod with adjustable hook as required.
   A neoprene rubber gasket is required between the riser mounting flange and the gate flange.
   Install the gate so that the level-line mark is level when the gate is closed.
   The mating surfaces of the lid and the body shall be machined for proper fit.
8. All shear gate bolts shall be stainless steel.
9. The shear gate maximum opening shall be controlled by limited hinge movement, a stop tab, or some other device.
   Alternative shear gate designs are acceptable if material specifications are met and flange bolt pattern matches.

CITY OF Mill Creek WASHINGTON

STORM WATER
FLOW CONTROL STRUCTURE
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. STM - 5
REV. DATE: 4/7/2016

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PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS	
			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	
			DESIGNED BY:		REVIEWED BY:		

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ERIC J SCOTT
STATE OF WASHINGTON
36704
REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

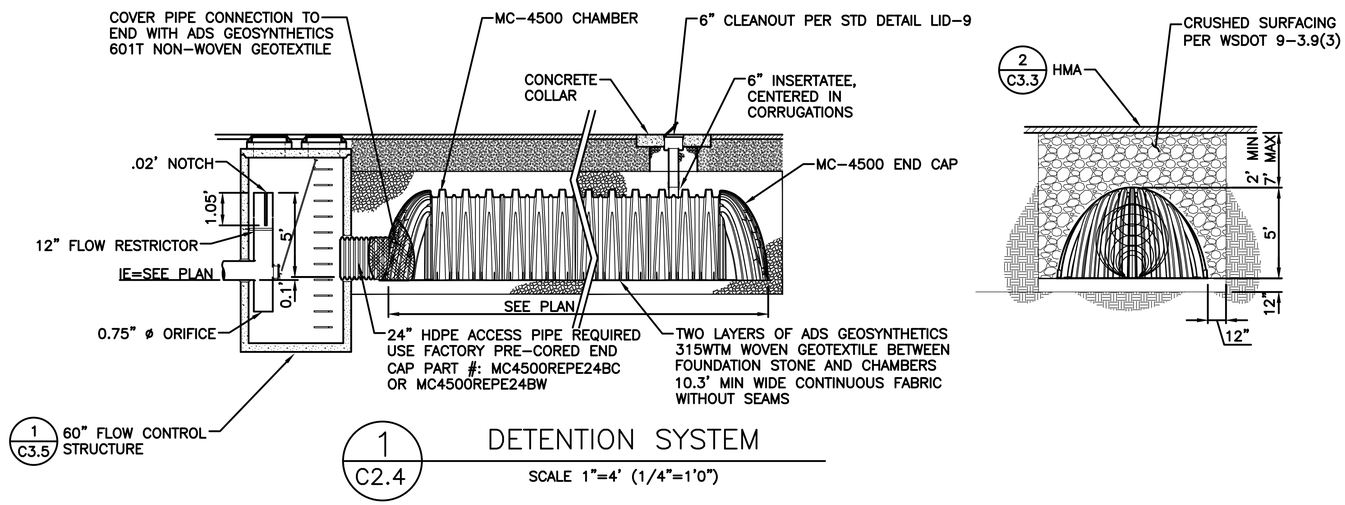
DRAINAGE DETAILS

JOB NO. 180706

C3.5

Plotted: May 07, 2020 - 8:43am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: C3.5-SD DET

NE 31 T28N R05E



1 C2.4 DETENTION SYSTEM

SCALE 1"=4' (1/4"=1'0")

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			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS
			9/16/19	A	CIVIL PERMIT	EJS

DESIGNED BY: REVIEWED BY:

TerraVista NW LLC
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3204 SMOKEY POINT DR, #207
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ERIC J SCOTT STATE OF WASHINGTON 36704 REGISTERED PROFESSIONAL ENGINEER 5/07/20

7C's SWIM SCHOOL

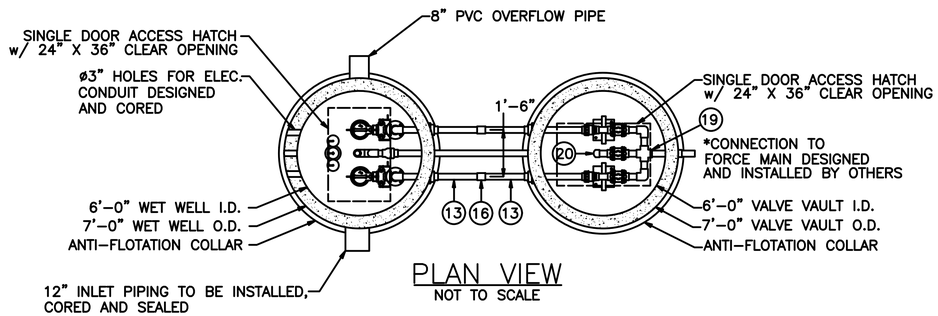
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

DRAINAGE DETAILS

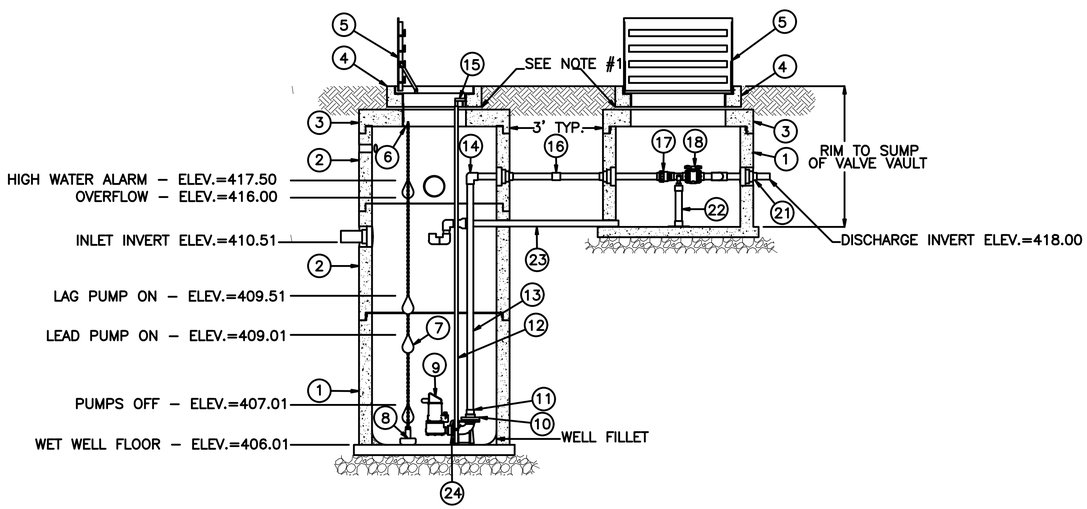
JOB NO. 180706

C3.6

NE 31 T28N R05E



PLAN VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	2	72" DIA. PRECAST CONCRETE MANHOLE BASE *HEIGHT VARIES*
2	2	72" DIA. PRECAST CONCRETE MANHOLE BARREL *HEIGHT VARIES*
3	2	72" DIA. PRECAST CONCRETE MANHOLE FLAT TOP
4	2	PRECAST CONCRETE HATCH RISER
5	2	SINGLE DOOR HATCH WITH A CLEAR OPENING OF 24" X 36"
6	1	SJE RHOMBUS EZconnex 4 FLOAT BRACKET WITH MOUNTING DEVICE, PART# 1009432
7	4	SJE RHOMBUS EZconnex FLOAT SWITCH NARROW-ANGLED VERSION, NORMALLY OPEN, PART# 1050721
8	1	ANCHOR 15LB PVC COATED
9	2	2" SUBMERSIBLE PUMP, GOULDS WATER TECHNOLOGY PART# WS0311B
10	2	2-1/2" DIA. PVC SCH 80 FLG X SLIP ADAPTER
11	2	2-1/2" TO 2" DIA. PVC SCH 80 BUSHING
12	4 EA	1" DIA. 304SS GUIDE RAIL PIPE *20' STICKS CUT TO LENGTH*
13	80 LF	2" DIA. PVC SCH 80 PIPE *CUT TO LENGTH*
14	4	2.5" DIA. PVC SCH 80 90 DEGREE ELBOW
15	2	1" DIA. 304 SS UPPER GUIDE RAIL BRACKET, CONERY MFG. PART# UGB-STNLS
16	2	2" DIA. ROMAC 511 COUPLING
17	2	2" DIA. PVC SCH 80 BALL CHECK VALVE
18	3	2" DIA. BRASS BALL VALVE
19	1	2.5" DIA. PVC SCH 80 CROSS
20	1	2" DIA. PVC SCH 80 CAP
21	5	FLEXIBLE PIPE CONNECTORS
22	2	ADJUSTABLE PIPE SUPPORT
23	1	2" DIA. PVC SCH 40 VAULT DRAIN w/ TRAP
24	2	2" DIA. CONERY MFG. PUMP BASE ELBOW/GUIDE RAIL ASSY FOR 1" DIA. GUIDE RAIL, PART# BERS-0200
	1	SJE RHOMBUS MODEL 122 SINGLE PHASE DUPLEX CONTROL PANEL SKU 1221W114E3A6A8AC10AEF14B19B35H
	1	SJE RHOMBUS EZconnex 4-PORT MANIFOLD, 50 FT WITH MOUNTING BRACKET, PART# 1053988

SYSTEM CHARACTERISTICS

APPLICATION	SEWAGE ☐ STORM WATER ■
DESIGN FLOW (gpm)	40.8
STATIC HEAD (ft)	11
FORCE MAIN LENGTH (ft)	30
MOTOR SIZE (Hp)	0.33
AVAILABLE POWER SUPPLY (V, Phase)	115

NOTES:
1. CONTRACTOR TO SHIM AND GROUT FILL AS NEEDED TO MEET FINISH GRADE.

1 / C2.4 LIFT STATION
NTS

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS	
			9/16/19	A	CIVIL PERMIT	EJS	
			DATE	NO.	REVISION	BY	

DESIGNED BY: REVIEWED BY:

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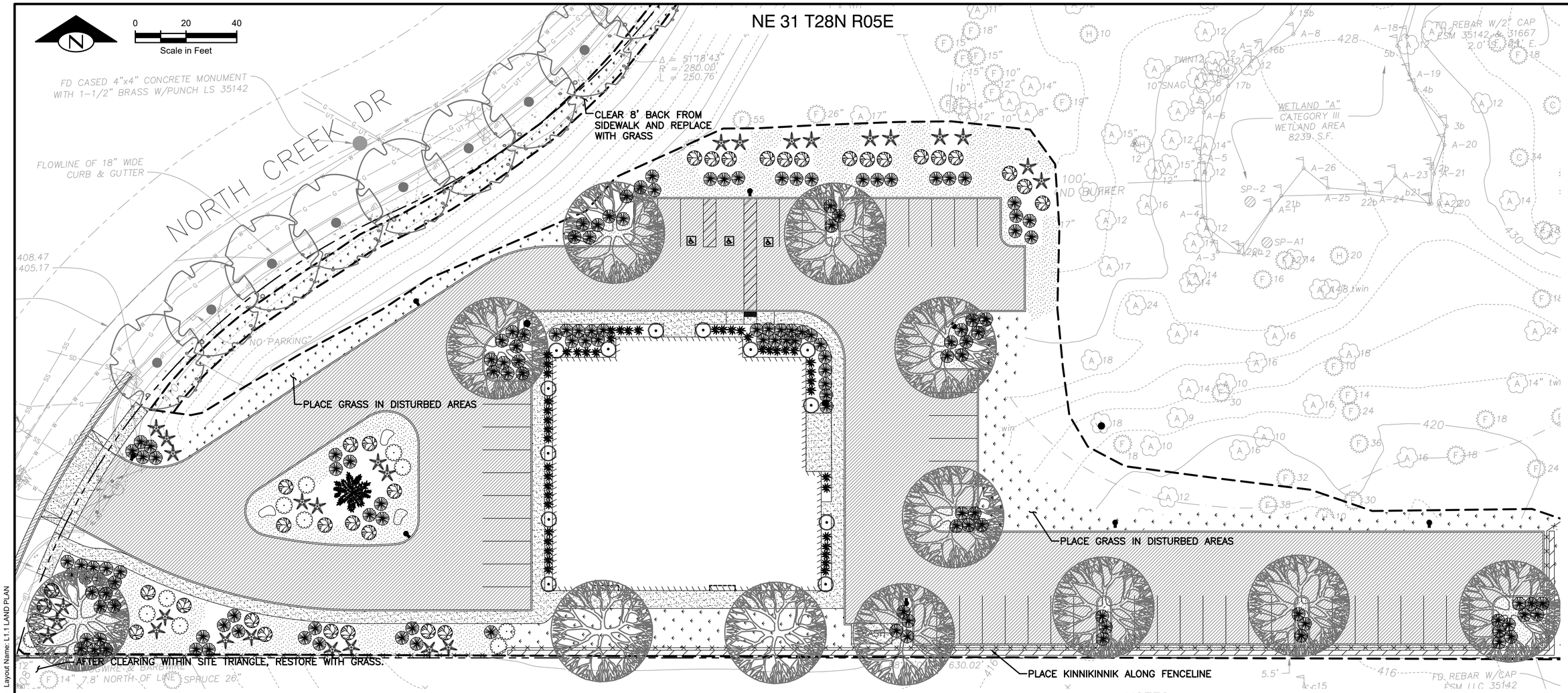
ERIC J SCOTT, STATE OF WASHINGTON, 36704, REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

LIFT STATION DETAILS

JOB NO. 180706

C3.7



	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' WEEPING NOOTKA CYPRESS	#5	(1)
	PYRUS CALLERYANA – ARISTOCRAT CALLERY PEAR	2" CAL	(12)
	ACER RUBRUM "BOWHALL" – BOWHALL RED MAPLE	2" CAL	(20)
	ARCTOSTAPHYLOS UVA-URSI – KINNIKINNIK (SPACING 24"–30")	#1	(800)
	GRASS	1,975 SF	

MISCANTHUS SINENSIS – 'MORNING LIGHT' JAPANESE SILVER GRASS	#2	(28)
ACANTHUS MOLLIS – BEAR'S BREECHES	#2	(12)
CALLUNA VULGARIS – 'ROBERT CHAPMAN' SCOTCH HEATHER	#2	(34)
VIBURNUM DAVIDII – DAVID'S VIBURNUM	#2	(139)
VACCINIUM OVATUM – EVERGREEN HUCKLBERRY	#2	(13)
LEUCOTHOE AXILLARIS – LEUCOTHOE	#1	(48)
2-MAN BOULDER		(3)

NOTES:

1. REFER TO SHEET C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. PLACE A MINIMUM OF 4" TOPSOIL IN ALL PLANTING BEDS, PLANTING SOIL MIX FOR BACKFILL FOR ALL TREES, SHRUBS AND GROUNDCOVER SHALL BE MIXTURE OF 2/3 TOPSOIL AND 1/3 ORGANIC MATTER, OR COMMERCIALLY AVAILABLE 3-WAY TOPSOIL
3. CONTRACTOR SHALL FOLLOW STANDARDS FOR NURSERY STOCK AND THE ANI "AMERICAN STANDARDS FOR NURSERY STOCK.
4. PLAN SHALL BE FOLLOWED. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR.
5. SUBCONTRACTOR SHALL GUARANTEE PLANT MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. REPLACE PLANTS UNDER GUARANTEE WITH SAME VARIETY AND ROOT CONDITION AS MATERIALS ORIGINALLY SPECIFIED. A NEW GUARANTEE PERIOD WILL BE ESTABLISHED FOR THESE REPLACED MATERIALS.
6. AUTOMATIC MECHANICAL IRRIGATION SYSTEM SHALL BE BID/DESIGN AS PER CITY OF MILL CREEK CODE TO MEET ALL REQUIREMENTS.
7. LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN A MANNER SO AS TO PROVIDE 36" CLEARANCE AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS.

811 Know what's below. Call before you dig.

PLAN CHECK	BY	DATE	DATE	NO.	REVISION	BY
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
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			9/16/19	A	CIVIL PERMIT	EJS

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5/07/20

7C's SWIM SCHOOL

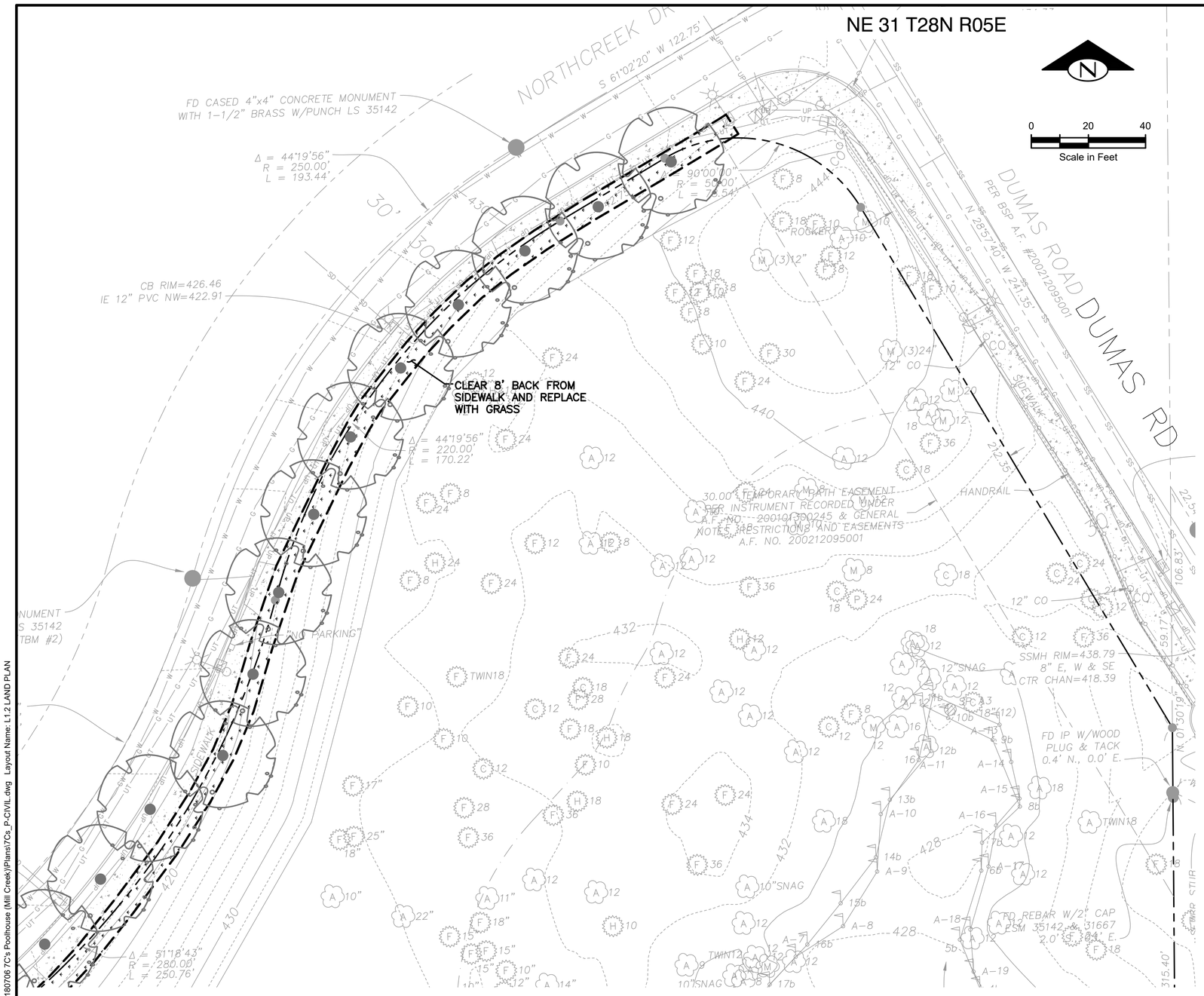
NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

JOB NO. 180706

LANDSCAPE PLAN

L1.1

Plotted: May 07, 2020 - 8:43am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: L1.1 LAND PLAN



NOTES:

1. REFER TO SHEET L1.1 FOR NOTES AND PLANTING SCHEDULE

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE					
			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS	
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS	
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			9/16/19	A	CIVIL PERMIT	EJS	
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			DESIGNED BY:		REVIEWED BY:		

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STATE OF WASHINGTON ERIC J SCOTT 36704 REGISTERED PROFESSIONAL ENGINEER
5/07/20

7C's SWIM SCHOOL

NORTHCREEK DR AND DUMAS RD , MILL CREEK, WA 98012

JOB NO. 180706

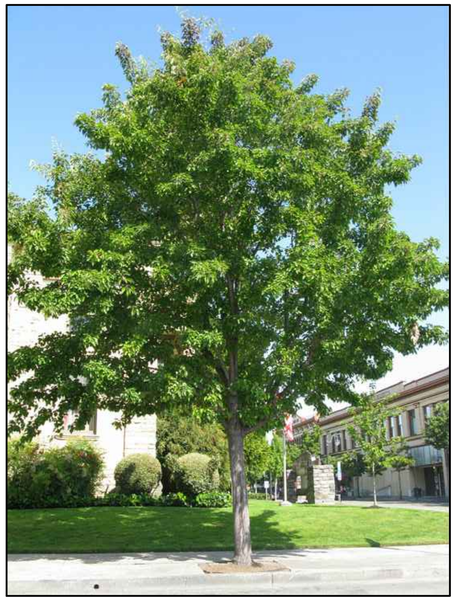
LANDSCAPE PLAN

L1.2

Plotted: May 07, 2020 - 8:43am Rodney T:\Projects\180706 7C's Poolhouse (Mill Creek)\Plans\7Cs_P-CIVIL.dwg Layout Name: L1.2 LAND PLAN

NE 31 T28N R05E

CHAMAECYPARIS NOOTKATENSIS 'PENDULA'
WEEPING NOOTKA CYPRESS



PYRUS CALLERYANA
ARISTOCRAT GALLERY PEAR

LEUCOTHOE AXILLARIS
LEUCOTHOE

ACANTHUS MOLLIS
BEAR'S BREECHES

ACER REBRUM "BOWHALL"
BOHALL RED MAPLE

ARCTOSTAPHYLOS UVA—URSI
KINNIKINNIK

CALLUNA VULGARIS
'ROBERT CHAPMAN' SCOTCH HEATHER

ISCANTHUS SINENSIS
'MORNING LIGHT' JAPANESE SILVER GRASS

VACCINIUM OVATUM
EVERGREEN HUCKLBERRY

VIBURNUM DAVIDII
DAVID'S VIBURNUM

Know what's below.
Call before you dig.

PLAN CHECK	BY	DATE	5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS
			9/16/19	A	CIVIL PERMIT	EJS
			DATE	NO.	REVISION	BY
			DESIGNED BY:		REVIEWED BY:	

TerraVista NW LLC
Consulting Engineers
3204 SMOKEY POINT DR, #207
ARLINGTON, WA 98223
360-691-3272
WWW.TERRAVISTANW.COM

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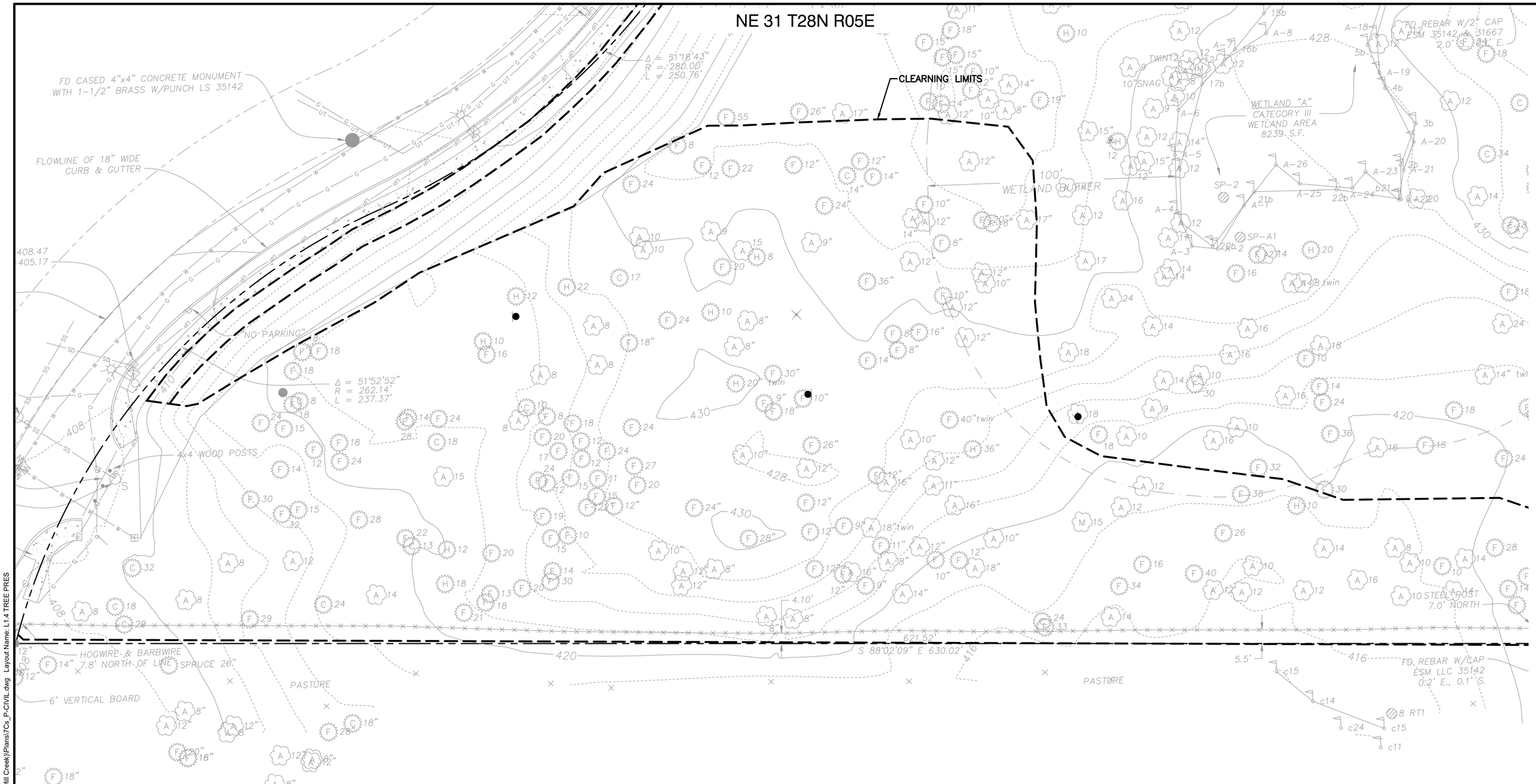
LANDSCAPE PHOTOS

L1.3



NOTES:

1. SEE SHEET C1.1 AND C1.2 FOR GENERAL INFORMATION.
2. ALL TREES AND VEGETATION WITHIN THE LIMITS OF WORK SHALL BE REMOVED
3. ALL TREES AND VEGETATION OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED IN PLACE.

N

0 20 40
Scale in Feet

Know what's below. Call before you dig.

PLAN CHECK	BY	DATE	5/07/20	E	CIVIL PERMIT REVISIONS	EJS
			4/30/20	D	CIVIL PERMIT REVISIONS	EJS
			2/20/20	C	CIVIL PERMIT REVISIONS	EJS
			1/24/20	B	CIVIL PERMIT REVISIONS	EJS
			9/16/19	A	CIVIL PERMIT	EJS
			DATE	NO.	REVISION	BY

DESIGNED BY: REVIEWED BY:

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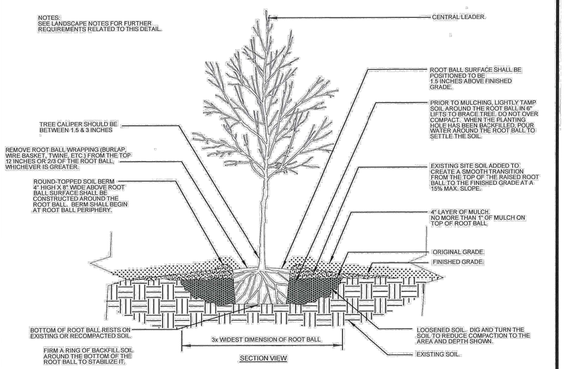
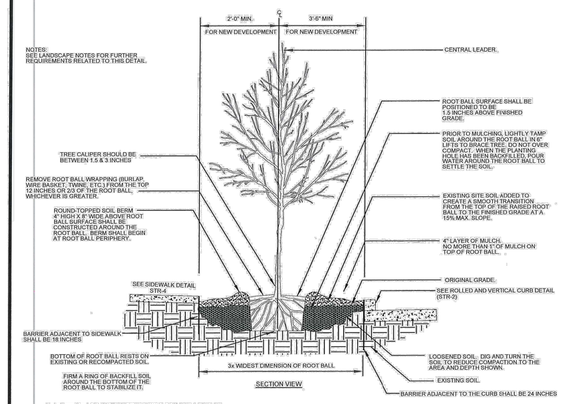
TREE SURVEY

L1.4

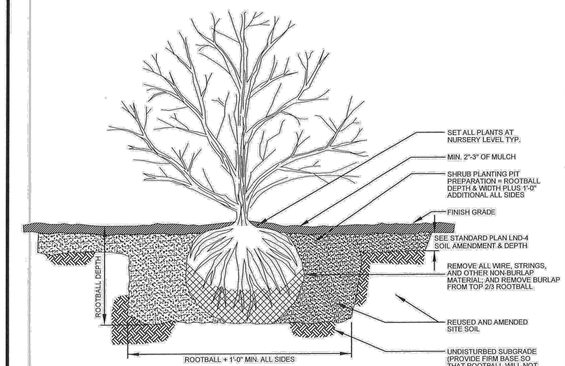
NE 31 T28N R05E



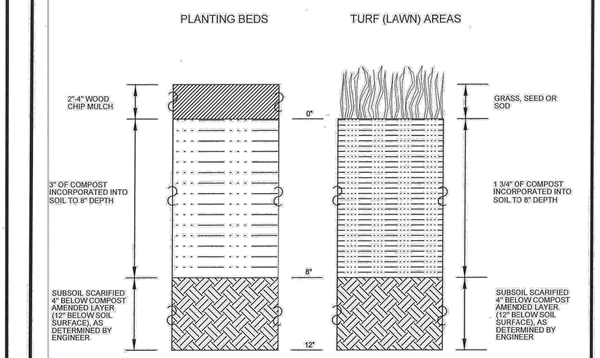
LANDSCAPE
DECIDUOUS TREE PLANTING
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. LND-1
REV. DATE: 9/23/2016



LANDSCAPE
DECIDUOUS TREE PLANTING IN PLANTING STRIP
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. LND-3
REV. DATE: 9/28/2016



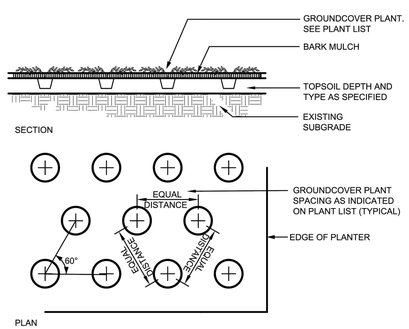
LANDSCAPE
SHRUB PLANTING
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. LND-4
REV. DATE: 9/23/2016



NOTES

1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER TO PRODUCE 12 INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER.
3. COMPOST SHALL BE TILLED IN TO 6 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATIONS.
4. TURF AREAS SHALL RECEIVE 1.75 INCHES OF COMPOST TILLED IN TO 8 INCH DEPTH, OR MAY SUBSTITUTE 8 INCHES OF IMPORTED SOIL, CONTAINING 20-25% COMPOST BY VOLUME. PLANT GRASS SEED OR SOD PER SPECIFICATION.
5. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8 INCH DEPTH, OR MAY SUBSTITUTE 8 INCH OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 2-4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL.
6. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST- AMEND SOIL WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.). WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS. SOIL SHOULD BE COMPACTED TO APPROXIMATELY 90% PROCTOR TO ENSURE A FIRM SURFACE.

LANDSCAPE
SOIL AMENDMENT AND DEPTH
NOT TO SCALE
PUBLIC WORKS DEPARTMENT
PLAN NO. LND-5
REV. DATE: 9/23/2016



TYPICAL PLANT SPACING

Know what's below. Call before you dig.

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			5/07/20	E	CIVIL PERMIT REVISIONS	EJS	
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LANDSCAPE DETAILS

JOB NO. 180706

L1.5