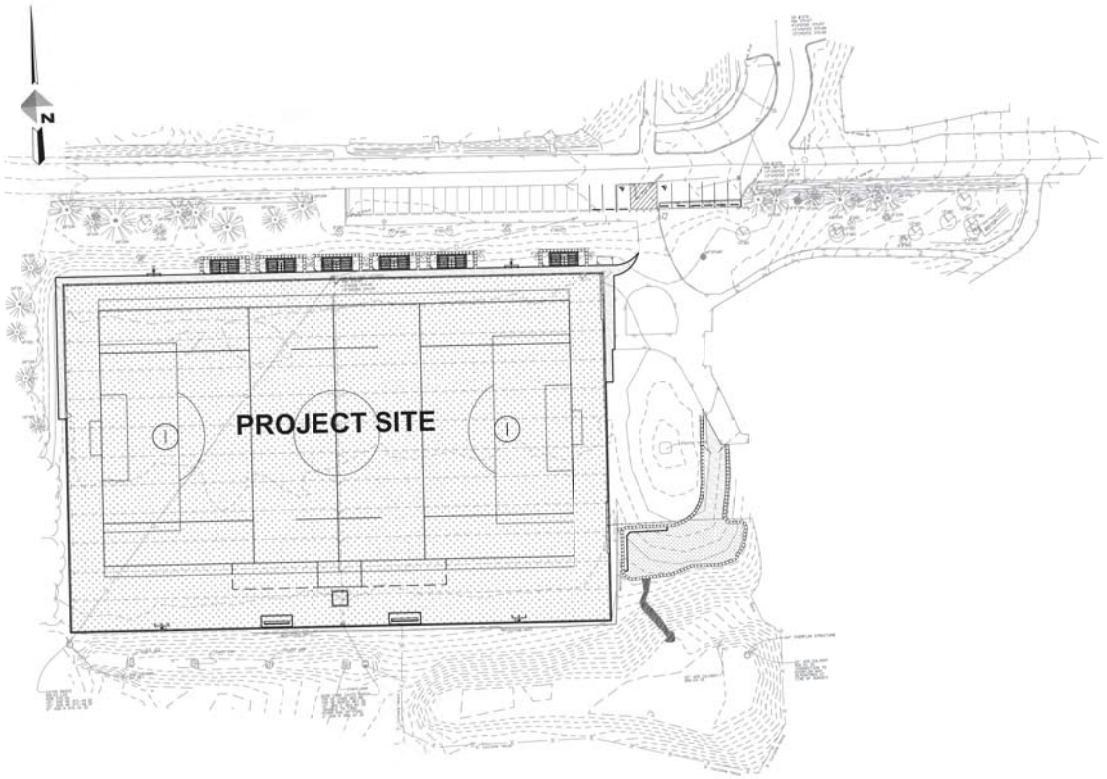
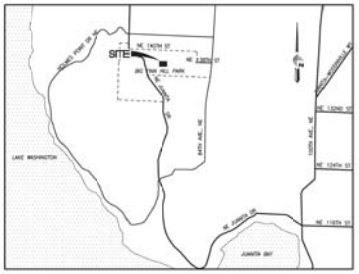
ATTACHMENT 5
SEP11-00020

BIG FINN HILL PARK

LACROSSE & SOCCER FIELD CONVERSION



PROJECT SITE MAP
1"=40'



VICINITY MAP
1"=2000' APPROX.

SHEET INDEX

C0.0	CIVIL PROJECT INFORMATION SHEET
C0.1	PROJECT GENERAL AND TESC NOTES
C1.0	EXISTING CONDITIONS
C2.0	TESC & DEMOLITION PLAN
C2.1	TESC DETAILS
C4.0	CIVIL SITE PLAN
C4.1	CIVIL SITE DETAILS AND NOTES
C5.0	COMBINED CIVIL PLAN
C5.1	DRAINAGE PROFILES AND DETAILS
C5.2	GRADING AND DRAINAGE DETAILS
E1	ONELINE DIAGRAM AND DETAILS
E2	ELECTRICAL SITE PLAN
L1.0	FENCE LAYOUT
L2.0	FIELD LAYOUT AND IRRIGATION
L3.0	FENCE DETAILS

SITE AND PARCEL DATA

PARCEL NUMBER: 242604-9013
SECTION/TOWNSHIP/RANGE: SE-24-26-04

LEGAL DESCRIPTION:
N 1/2 OF SE 1/4 OF STR 24-26-04 LESS NE 1/4 OF NE 1/4 OF SE 1/4 OF SD SEC TGW SE 1/4 OF SE 1/4 OF STR 24-26-04 LESS POR LY SLY OF A LN BEG ON E LN SD SUBD 987.78 FT N OF SE COR TH N 89-36-30 W 1039.53 FT TH N 139.76 FT TH N 86-58-00 W 283.99 FT TAP ON W LN SD SUBD 220.5 FT S OF NW COR & TERMINUS SD LN LESS CO RDS TGW E 1/2 OF SW 1/4 OF STR 24-26-04 LESS CO RDS TGW VAC NE 138TH ST LY ELY OF JUANITA DR NE & WLY OF W L4 OF E 1/2 OF NE 1/4 OF SE 1/4 OF SD SEC PER ORD #11408

JURISDICTION: KING COUNTY
ZONING: R4SC
ADJACENT ZONING: R6, R4, R4PSO, R6PSO

AREA CALCULATIONS AND CONDITIONS:

TOTAL SITE AREA: 6,786,648-S.F. (155.87-ACRES)
PROJECT SITE AREA: 112,658-S.F. (2.59-ACRES)
EST. AREA IN CRIT. AREAS: UNKNOWN S.F. (NO CHANGE PROPOSED)
APPROX. AREA OF IMPACT: NONE

OWNER
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SEATTLE, WA 98104-3855
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FAX: (206) 263-6217
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GEOTECH CONSULTANTS, INC.
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BELLEVUE, WA 98005
TEL: (425) 747-5618
FAX: (425) 747-8561
CONTACT: MARC MCGINNIS, P.E.

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

DATE	BY	
05/30/2011	CPK	
9/29/2011	CPK	
09/14/2011	RJC	
9/26/2011	CPK	FINAL PERMIT SUBMITTAL
10/21/11	CPK	
5/7/2012	CPK	
6/5/2012	BT	

DOWL HKM
8420 154TH AVENUE NE REDMOND, WA 98052
TEL: (425) 869-2670 FAX: (425) 869-2679

APPROVED: 5/7/2012

CHRISTOPHER P. KOVAC
STATE OF WASHINGTON
40304
REGISTERED PROFESSIONAL ENGINEER
October 27, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

CIVIL PROJECT INFORMATION SHEET
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
S 24 - T 26N - R 04E

SCALE: AS SHOWN
J.B.:
W.O.: 13360.01
FILE NO.: S224-18
SHEET
C0.0

RECOMMENDED CONSTRUCTION SEQUENCE

1. MANDATORY PRE-CONSTRUCTION MEETING WITH OWNER AND KING COUNTY DDES.
2. FLAG OR FENCE CLEARING LIMITS.
3. POST NOTICE OF CONSTRUCTION ACTIVITY SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
4. INSTALL CATCH BASIN PROTECTION IF 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.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
11. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY EROSION AND SEDIMENT CONTROL 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, PLASTIC SHEETING 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 BEST MANAGEMENT PRACTICES MAY BE REMOVED AS APPROPRIATE.

EROSION AND SEDIMENTATION CONTROL NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. 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, AND ADJACENT PROPERTIES IS MINIMIZED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE ANTICIPATED 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 SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
7. 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 METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
8. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. ADDITIONAL QUARRY SPALLS SHALL BE PROVIDED AND PLACED AS NECESSARY TO MAINTAIN PROPER FUNCTION OF CONSTRUCTION ENTRANCES.
12. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
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 DDES INSPECTOR. THE DDES INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

EROSION AND SEDIMENTATION CONTROL NOTES (CONT.)

15. ALL PUBLIC AND PRIVATE ROADS AFFECTED BY THE PROJECT SHALL BE CLEANED ON A REGULAR BASIS. FLUSHING WITH WATER IS NOT ALLOWED.

SUPPLEMENTAL ESC NOTES

1. TEMPORARY STOCKPILE NOTES DO NOT APPLY TO THE PROPOSED SHORT-TERM STOCKPILE AND EMBANKMENT AREAS OF THIS PROJECT. SHORT-TERM STOCKPILE AND EMBANKMENT AREAS SHALL BE SEEDED OR OTHERWISE APPROPRIATELY STABILIZED AS NECESSARY TO MEET ESC LIMITATIONS.
2. BECAUSE THE SITE IS FLAT AND UNDERLAIN BY HIGHLY INFILTRATIVE SOILS, CONSTRUCTION OF INTERCEPTOR SWALES/DIKES WITH ROCK CHECK DAMS SHALL BE USED ONLY IF SITE STORMWATER BEGINS TO POND OR OTHERWISE DEGRADES SITE CONDITIONS SUCH THAT OTHER WORK OR SURROUNDING AREAS MIGHT BE ADVERSELY AFFECTED.
3. ROUGH EXCAVATE THE PROPOSED WATER QUALITY POND TO A BOTTOM ELEVATION OF APPROXIMATELY 520-FT, TO SERVE AS THE TEMPORARY SEDIMENT TRAP (TST). DIRECT EXCESSIVE SURFACE FLOWS TO THE TST AS NECESSARY TO MEET ALL ESC LIMITATIONS AND TO MAINTAIN AN APPROPRIATELY FUNCTIONING PROJECT SITE.
4. CLEARING LIMITS ARE DEFINED BY THE SHOWN LOCATIONS AND ALIGNMENTS OF TEMPORARY SITE FENCE AND SILT FENCE.

TEMPORARY STOCKPILE NOTES

THESE TEMPORARY STOCKPILE NOTES DO NOT APPLY TO THE PROPOSED PHASE 1, SHORT-TERM, ORGANIC MATERIAL STOCKPILE AND PROPOSED SITE EMANKMENTS. OTHER TEMPORARY STOCKPILING MAY BE PERMITTED IF THE FOLLOWING CONDITIONS ARE MET:

1. A SIGNIFICANT AMOUNT OF MATERIAL WOULD BE REQUIRED TO BE REMOVED FROM THE SITE, AND THEN RETURNED, CAUSING IMPACTS TO PUBLIC STREETS.
2. THE MATERIAL CAN BE STORED ONSITE IN AN AREA PLANNED FOR LATER CLEARING.
3. EACH TEMPORARY STOCKPILE LOCATION (SITE) HAS A SLOPE OF 10% OR LESS.
4. THE TEMPORARY STOCKPILE WILL HAVE MINIMUM, OR APPROVED, VISUAL IMPACT ON THE SURROUNDING AREA. PROXIMITY OF PUBLIC AREAS TO TEMPORARY STOCKPILE AREA WILL DETERMINE THE SIZE AND HEIGHT PERMITTED. NO TEMPORARY STOCKPILING OVER 8 FEET WILL BE PERMITTED.
5. STOCKPILE WILL BE TEMPORARY. DURATION NOT TO EXCEED PERMITTED CONSTRUCTION ACTIVITY.
6. TEMPORARY STOCKPILE AREAS SHALL BE COVERED WITH VISQUEEN PLASTIC (MINIMUM 6 MIL) WHEN NOT IN USE. VISQUEEN IS TO BE HELD DOWN BY A MINIMUM OF 10 LB. SAND BAGS PLACED ON A 15-FOOT GRID AND ALONG THE EDGES OF THE PILE.

CLEARING AND GRADING NOTES

1. ALL CLEARING AND GRADING WORK SHALL MEET THE REQUIREMENTS OF THE 2005 EDITION OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
2. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE COUNTY CONSTRUCTION DIVISION, AND ALL REQUIRED PERMITS MUST BE APPROVED PRIOR TO START OF CONSTRUCTION.
3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND PROPERLY OPERATING PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED AND AUGMENTED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETE AND THE PROJECT SITE HAS BEEN STABILIZED.
4. DEPENDING UPON SITE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE COUNTY CONSTRUCTION INSPECTOR. WORK PERFORMED DURING THE RAINY SEASON, OCTOBER 1ST THROUGH APRIL 30TH, SHALL REQUIRE A PHASING PLAN TO LIMIT THE EXTENT OF SOIL EXPOSURE AND SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF AN APPROVED PROJECT WET WEATHER PLAN.
5. AT THE DISCRETION OF THE COUNTY, WORK MAY BE SUSPENDED DURING PERIODS OF INCLEMENT WEATHER TO REDUCE ACTUAL OR POTENTIAL EROSION AND/OR SEDIMENTATION.
6. WHEN WORK IS STOPPED OR COMPLETED IN AN AREA, THE COUNTY CONSTRUCTION INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL, INCLUDING SEEDING, OTHER STABILIZING MEASURES, AND/OR OTHER BMPS.
7. ALL WATER RUNOFF FROM ANY CONSTRUCTION SITE BEING DISCHARGED TO A PUBLIC STORMWATER SYSTEM SHALL NOT EXCEED A TURBIDITY LIMIT VALUE OF 50 NTU'S, AND SHALL ALSO MEET THE REQUIREMENTS OF THE CLEAN WATERS ACT 1972, WASHINGTON ADMINISTRATIVE CODE 173, AND RCW 90.48.
8. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE BASED UPON INFORMATION PROVIDED BY OTHERS AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL EXACT LOCATIONS TO AVOID DAMAGE, INJURY, AND/OR DISTURBANCE.
9. CONTRACTOR SHALL MAINTAIN OFF-SITE STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. CLEANING OF IMPACTED STREETS SHALL BE VIA SWEEPING.
10. ALL GROUND COVER IS TO REMAIN UNDISTURBED OUTSIDE OF CLEARING LIMITS.
11. FLOWS FROM IMPERVIOUS SURFACES (ROOF, STREETS, DRIVEWAYS, ETC.) SHALL BE CONNECTED TO A DRAINAGE SYSTEM AS SOON AS POSSIBLE.
12. CLEARING LIMITS SHALL BE FIELD LOCATED AND FENCED WITH A MINIMUM 36-INCH HIGH ORANGE SAFETY FENCE SUPPORTED BY WOOD OR METAL POSTS.
13. TREES TO REMAIN (SEE SITE CLEARING, VEGETATION AND MITIGATION PLAN) SHALL BE MARKED WITH FLAGGING, AND FENCED AT 5 FEET OUTSIDE OF THE DRIP LINE WHEN ADJACENT TO AREAS TO BE CLEARED. SEE DETAIL ON SHEET C1.03.
14. TRUCK AND VEHICULAR WHEEL WASHES SHALL BE REQUIRED IF DEEMED NECESSARY BY THE COUNTY.
15. EXACT ALIGNMENTS AND LOCATIONS OF TESC MEASURES SHOWN ON THE PLANS MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE PHASING AND CONSTRUCTION SEQUENCE AND PROGRESS, PROVIDED THE REQUIREMENTS AND INTENT OF THIS PLAN AND APPLICABLE JURISDICTIONAL REQUIREMENTS ARE MET.

SEASONAL SUSPENSION NOTES (OCTOBER 1ST THROUGH APRIL 30TH)

THE FOLLOWING NOTES APPLY TO THE PROJECT WHEN WORK CAN NOT PROCEED AND MEET PROJECT ESC REQUIREMENTS, OR IF PROJECT WORK IS TO BE STOPPED AND NOT RESUMED UNTIL THE RAINY SEASON. WORK MAY PROCEED IN THE RAINY SEASON PROVIDED ALL ESC REQUIREMENTS ARE MET.

STABILIZATION

1. ALL UTILITY WORK IN PROGRESS SHALL BE CAPPED AND TRENCHES BACKFILLED.
2. ALL EXCAVATION OR FILL WORK SHALL CEASE, PROVIDED CUT AND FILL SLOPE GRADIENTS ARE WITHIN DESIGN GUIDELINES. IF NOT THEY WILL BE QUICKLY CORRECTED PRIOR TO CESSATION OF WORK.
3. ALL EXPOSED SOILS, INCLUDING STOCKPILES, SHALL BE STABILIZED UTILIZING A MINIMUM OF 4-INCHES OF MULCH, VISQUEEN, EROSION CONTROL BLANKETS OR A COMBINATION OF THESE METHODS AS SUITABLE FOR THE CONDITIONS.
4. OPEN EXCAVATIONS, WHERE WATER COULD ACCUMULATE OVER 18" DEPTH, SHALL BE SURROUNDED BY ADDITIONAL SAFETY FENCING IN ADDITION TO THE FENCING AROUND THE SITE PERIMETER FENCING.
5. IF ALL WORK IS SUSPENDED, TEMPORARY MEASURES SHALL BE IMPLEMENTED TO STABILIZE ALL UNCOMPLETED PORTIONS OF STRUCTURES FROM COLLAPSE OR OTHER DAMAGE.

DEWATERING

1. WATER WILL ACCUMULATE IN THE STILLING BASIN OR THE STILLING BASIN EXCAVATION.
2. WITH ONSITE SOIL STABILIZED, AND HIGHLY INFILTRATIVE, LITTLE OR NO TURBIDITY IS ANTICIPATED. THE PERMANENT OUTFALL FROM THE FILTER SWALE SYSTEM WILL BE UTILIZED.

MAINTENANCE

1. THE BMP'S SHALL BE INSPECTED WEEKLY AS WELL AS DURING AND AFTER ANY MAJOR STORM EVENT.
2. ANY NECESSARY CORRECTIONS TO THE BMP'S SHALL BE IMPLEMENTED WITHIN 24 HOURS OF THE INSPECTION.
3. IN THE EVENT THAT WATER IS LEAVING THE SITE IN EXCESS 50 NTU'S OR IN EXCESS OF 5 NTU'S ABOVE BACKGROUND TURBIDITY, OR HAVE IN EXCESS OF 10% INCREASE WHERE THE BACKGROUND EXCEEDS 50 NTU'S, IMMEDIATE ACTION SHALL BE TAKEN BY THE CONTRACTOR TO CORRECT THE CONDITION. THAT ACTION SHALL INCLUDE PUMPING FLOWS INTO A PASSIVE FILTRATION SYSTEM.

GENERAL CLEARING AND DEMOLITION NOTES

1. READ ALL NOTES AND REVIEW ENTIRE PLAN SET PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. ESTABLISH EXACT PROJECT BOUNDARIES PRIOR TO COMMENCEMENT OF WORK, AND RECONFIRM BOUNDARY LINES WHEN COORDINATING WITH NEIGHBORING PROPERTY OWNERS.
3. NO EXCAVATION, GRADING OR OTHER SOIL DISTURBING ACTIVITIES SHALL BE PERFORMED UNTIL THE PROJECT GRADING PERMIT HAS BEEN ISSUED AND ALL TESC MEASURES HAVE BEEN COMPLETELY INSTALLED.
4. UTILITIES SHOWN IN THIS DRAWING SET ARE BASED ON INFORMATION PROVIDED BY OTHERS. INFORMATION SHOWN SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
5. ORDINATE ALL APPLICABLE WORK ACTIVITIES WITH APPROPRIATE REPRESENTATIVES OF ADJACENT NEIGHBOR PROPERTIES. OBTAIN PERMISSIONS AS NECESSARY TO PROPERLY AND SAFELY COMPLETE WORK. PROTECT NEIGHBOR PROPERTY AND ITEMS FROM DAMAGE DUE TO PROJECT RELATED EVENTS AND ACTIVITIES.
6. PROTECT ALL TESC FEATURES, ITEMS, AND SYSTEMS FROM DAMAGE. MAINTAIN THEIR PROPER FUNCTION THROUGHOUT THE PROJECT.
7. COORDINATE STOCKPILE LOCATIONS WITH OWNER. SECURELY COVER STOCKPILES WITH PLASTIC SHEETING. SECURE ALL STOCKPILE COVERS AGAINST WIND, RAIN, AND OTHER DISTURBANCE BY THE ELEMENTS AND/OR OTHER FORCES.
8. REMOVE ALL LANDSCAPING ITEMS AND VEGETATION NOT INDICATED FOR RETENTION. REMOVE ALL OTHER MISCELLANEOUS ITEMS, INCLUDING BUT NOT LIMITED TO FENCE POSTS, WOOD, METAL, FENCING, RUBBISH, AND OTHER WASTE ITEMS.
9. MAINTAIN FULL OPERATION OF PUBLIC ROADWAYS. KEEP CLEAN AND FREE OF DEBRIS, DIRT, AND OTHER PROJECT RELATED ITEMS. SWEEP AS NEEDED TO MEET PROJECT REQUIREMENTS. COORDINATE WITH OWNER AND KING COUNTY ALL DISRUPTIONS TO SERVICES. REPAIR ALL DAMAGE TO MATCH EXISTING CONDITIONS.
10. GRADE SITE SUBGRADE TO BE UNIFORMLY AND EVENLY GRADED SUCH THAT POSITIVE AND CONTROLLED DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE PROJECT TESC (SWPP) PLAN AND THE PROJECT GRADING PLAN.
11. REMOVE FROM THE SITE AND PROPERLY DISPOSE OF ALL PROJECT WASTES, SPOILS, AND RUBBISH IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. OBTAIN ALL PERMITS NECESSARY FOR PROPER AND LEGAL DISPOSAL.
12. CONTRACTOR IS RESPONSIBLE FOR CONTRACTOR'S OWN QUANTITY ESTIMATES.

STRUCTURAL NOTES

1. THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY DDES PRIOR TO CONSTRUCTION (KCC 16.04, 16.70, 14.20).
2. ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES IN COUNTY ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH KCRS DRAWING NUMBERS 5-004, 5-005, 5-006, AND 5-007. ROCKERIES OUTSIDE OF ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE..

KING COUNTY (DDES) GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE KING COUNTY CODE (KCC), KING COUNTY ROAD STANDARDS (KCRS), KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM) AND THE CONDITIONS OF PRELIMINARY SUBDIVISION 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 DEVELOPMENT AND ENVIRONMENTAL SERVICES (DDES) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DDES 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, 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 DDES LAND USE INSPECTION SECTION, 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. CONSTRUCTION NOISE SHALL BE LIMITED IN ACCORDANCE WITH KING COUNTY CODE (SECTION 12.88); NORMALLY, THIS IS 7A.M. TO 10 P.M. ON WEEKDAYS AND 9 A.M. TO 10 P.M. ON WEEKENDS.
7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHT-OF-WAY.
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 MEETS ALL REQUIREMENTS OF KCRS CHAPTER 8 IS SUBMITTED TO THE DDES LAND USE INSPECTION SECTION THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE 1988 UNLESS OTHERWISE APPROVED BY DDES.
10. GROUNDWATER SYSTEM CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL GROUNDWATER SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION B1 3.02 OF THE APWA STANDARD SPECIFICATIONS.
11. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY.
12. ALL ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY (WSDOT 2-06.3).
13. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DDES AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS 8.03(B)3.
14. 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. SECTION 1-07.23, TRAFFIC CONTROL, OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.

CALL 48 HOURS
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1-800-424-5555

DATE	REVISION	BY
10/21/11	FINAL PERMIT SUBMITTAL	CPK
9/12/11	BD ISSUE	CPK
5/27/11	C&G PERMIT SUBMITTAL	CPK

	DATE	BY
DESIGNED	5/09/2011	CPK
DRAWN	5/12/2011	RJE
CHECKED	5/20/2011	CPK
APPROVED		

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8420 154TH AVENUE NE REDMOND, WA 98052
TEL (425) 869-2670 FAX (425) 869-2679

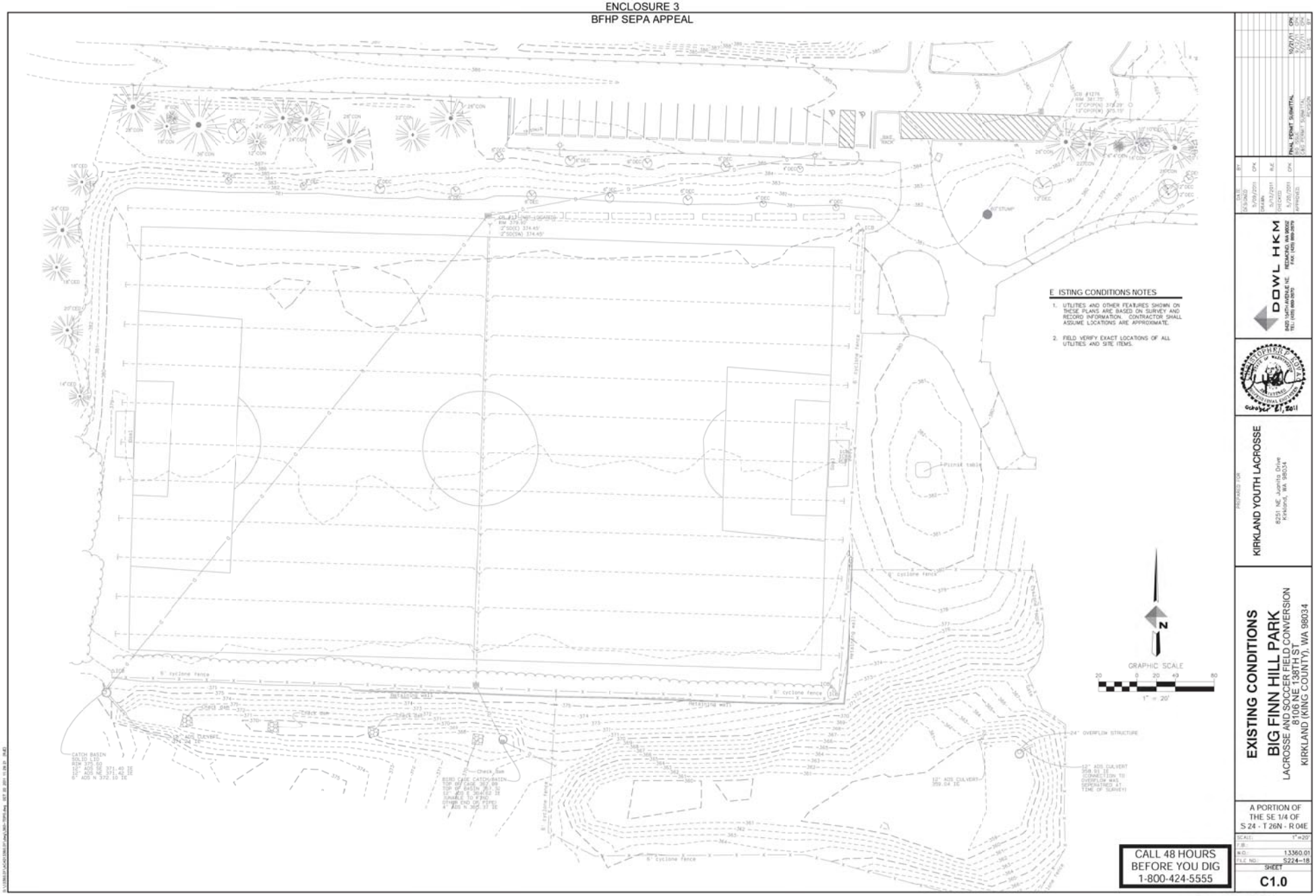
October 21, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

KING COUNTY AND PROJECT GENERAL NOTES
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
S 24 - T 26N - R 04E

SCALE:	AS SHOWN
F.B.:	
W.O.:	13360.01
FILE NO.:	S224-18
SHEET	C0.1


EXISTING CONDITIONS NOTES
1. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONS ARE APPROXIMATE.
2. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.
GRAPHIC SCALE
1" = 20'
CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555
DOWL HKM
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034
EXISTING CONDITIONS
BIG FINN HILL PARK
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A PORTION OF THE SE 1/4 OF S 24 - T 26N - R 04E
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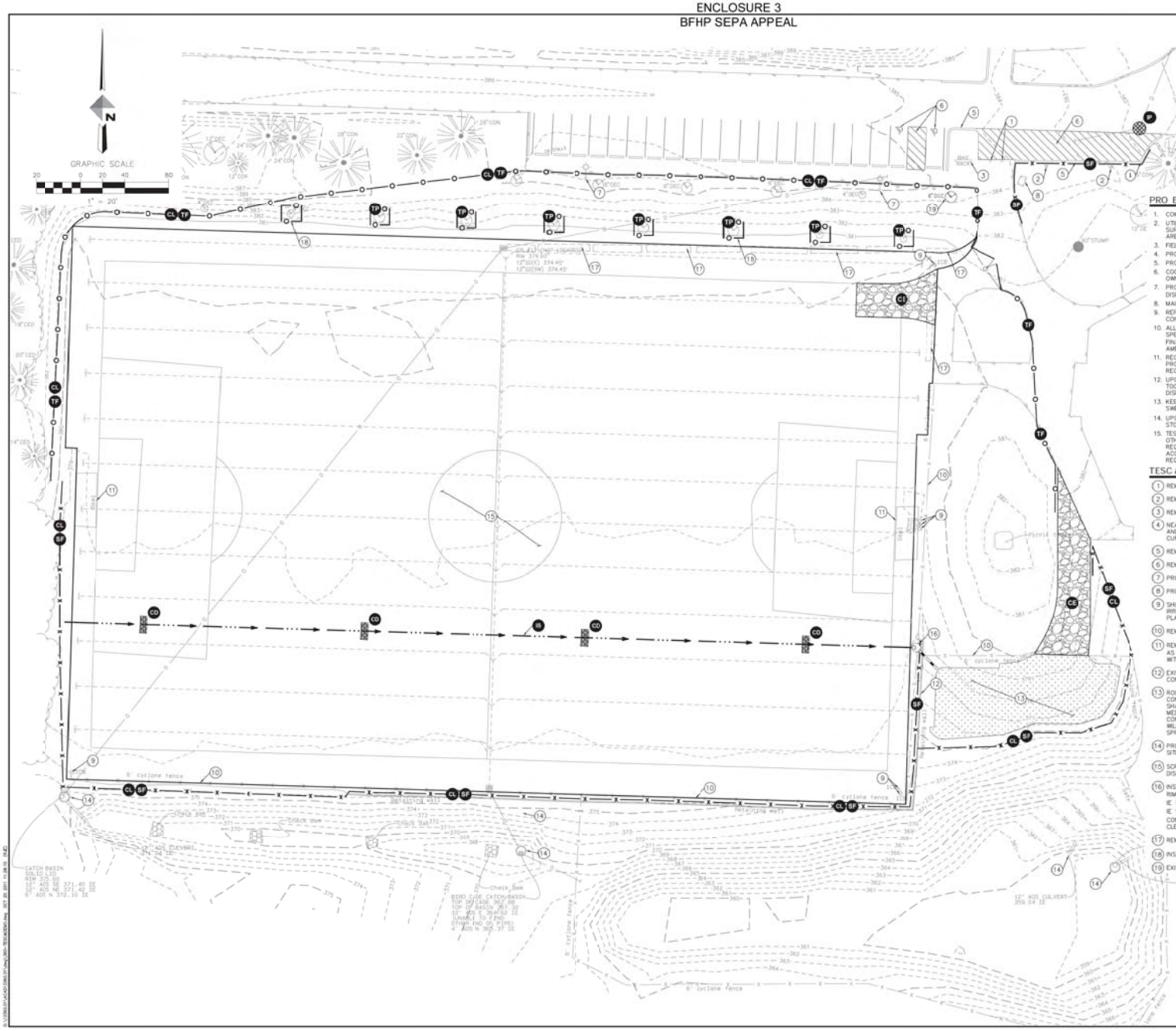

TESC, CLEARING DE OLEGEND

- CE — STABIUZED CONSTRUCTION ENTRANCE, DTL. 2/C2.1
- BF — SILT FENCE, DTL 7/C2.1
- TF — TEMPORARY FENCE, DTL 3/C2.1
- IP — INLET PROTECTION, DTL. 1/C2.1
- CL — CLEARING LIMITS
- TEMPORARY SWALE, DTL 5/C2.1
- CD — TEMPORARY ROCK CHECK DAM DTL 4/C2.1
- TP — TEMPORARY TREE PROTECTION

PRO ECT TESC AND DE OLITION PLAN NOTES

1. COMPLY WITH ALL KING COUNTY CONSTRUCTION REQUIREMENTS.
2. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONI ARE APPROXIMATE.
3. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.
4. PROTECT ALL UTILITIES.
5. PROTECT ALL TREES TO REMAIN.
6. COORDINATE ALL UTILITY WORK WITH BOTH UTILITY PURVEYOR AND WITH OWNER.
7. PROVIDE 5-BUSINESS DAYS NOTICE OF ANY SERVICE AND OR ACCESS DISRUPTIONS TO OWNER AND/OR ANY POTENTIALLY AFFECTED NEIGHBOR(S).
8. MAINTAIN GOOD SITE HOUSEKEEPING.
9. REPAIR ALL DAMAGE, RELATED TO WORK ACTIVITIES, TO MATCH PRE-WORK CONDITIONS.
10. ALL DISTURBED LANDSCAPE AREAS THAT ARE NOT INCLUDED IN PROJECT SPECIFIC LANDSCAPING PLANS SHALL BE SCRAPED TO 6-INCHES BELOW FINAL FINISH GRADE, TOP DRESSED WITH 6-INCHES OF 50/50 COMPOST AMENDED TOPSOIL AND HYDROSEEDED WITH A GRASS AND WILDFLOWER MIX.
11. REGULARLY REMOVE ALL PROJECT AND SITE WASTES FROM THE SITE AND PROPERLY DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
12. UPON COMPLETION OF PROJECT WORK REMOVAL ALL WASTE, EQUIPMENT, TOOLS AND MATERIALS NOT INCLUDED FOR RETENTION, AND PROPERLY DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
13. KEEP PARK DRIVES, PARKING AREAS, ACCESS ROADS AND PUBLIC STREETS SWEPT CLEAN.
14. UPON COMPLETION OF WORK, CLEAN (JET WASH AND VACTOR CLEAN) ONSITE STORM CATCH BASINS AND PIPES.
15. TESC MEASURES SHOWN ARE APPROXIMATE. AUGMENT, REPAIR, REPLACE OF OTHERWISE MODIFY MEASURES AS NEEDED TO COMPLY WITH KING COUNTY REQUIREMENTS. MEASURES MAY ALSO BE REALIGNED AND MODIFIED TO ACCOMMODATE WORK ACTIVITIES AND WORK PROGRESS, PROVIDE ALL REQUIREMENTS ARE MET.

TESC AND DE OLITION KEY NOTES

1. REMOVE EXISTING BOLLARDS.
2. REMOVE EXISTING SIGNS.
3. REMOVE EXISTING BIKE RACK.
4. NEAT SAWCUT EXISTING CURB AND PAVEMENT TO ALLOW FOR NEAT DEMOLITON AND REMOVAL OF CONCRETE AND ASPHALT AND CONNECTION TO PROPOSED CURB AND PAVEMENT. PROTECT ALL PAVEMENT TO REMAIN.
5. REMOVE EXISTING CURBING.
6. REMOVE EXISTING PAVEMENT MARKINGS.
7. PROTECT ALL EXISTING PARKING LOT LIGHTS.
8. PROTECT EXISTING SURFACE FEATURES..
9. SHUT OFF AND REMOVE IRRIGATION SYSTEM ELEMENTS NOT TO BE SAVED PER IRRIGATION PLAN. RELOCATE IRRIGATION SYSTEM ELEMENTS PER IRRIGATION PLAN.
10. REMOVE EXISTING FENCE.
11. REMOVE ALL EXISTING FIELD EQUIPMENT. RETAIN (SAVE) EQUIPMENT AND ITEMS AS REQUESTED BY THE OWNER. COORDINATE ONSITE STORAGE LOCATION(S) WITH OWNER.
12. EXISTING RETAINING WALL TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
13. ROUGH GRADE PROPOSED SAND FILTER FLOW SPREADER TO PROVIDE CONSTRUCTION PHASE FLOW CONTROL AND SEDIMENTATION. THE SAND FILTER SHALL BE EXCAVATED AND FILLED WITH 12-INCHES OF IMPORTED SAND FILTER MEDIA. REPLACE THE MEDIA AS REQUIRED DURING THE COURSE OF CONSTRUCTION. REMOVAL OF ALL SEDIMENT AS A RESULT OF CONSTRUCTION WILL BE REQUIRED PRIOR TO INSTALLATION OF PERMANENT SAND FILTER FLOW SPREADER.
14. PROTECT EXISTING STORM DRAINAGE FEATURES. CLEAN UPON COMPLETION OF SITE WORK.
15. SCRAPE (EXCAVATE) ALL VEGETATED (GRASS OR OTHERWISE) SOILS AND DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
16. INSTALL CB #2 FOR USE DURING CONSTRUCTION PHASE.
    RIM=580.0±
    IE 12" STUB (W)=375.00
    IE 12" ADS (SE)=374.90
    CONTRACTOR TO INSTALL 12" STUB TO THE WEST AT INSTALLATION OF CB. CLEAN UPON COMPLETION OF SITE WORK.
17. REMOVE AND PROPERLY DISPOSE OF ALL EXISTING FIELD BORDER LOGS (TYP.).
18. INSTALL TREE PROTECTION (TYP.).
19. EXISTING TREE TO BE REMOVED.

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DATE	BY	REVISIONS
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5/27/11	CPK	PERMIT SUBMITTAL
5/19/11	CPK	ISSUED FOR REVIEW

DATE: 5/19/2011
DRAWN: CPK
CHECKED: RJC
DATE: 5/20/2011
APPROVED: CPK

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CHRISTOPHER KOTY STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
October 27, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

TESC & DEMOLITION PLAN
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
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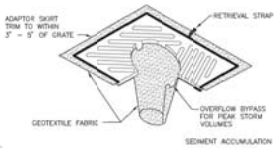
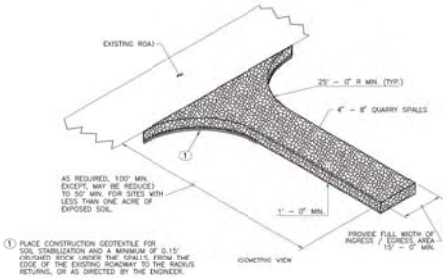


NOTES:

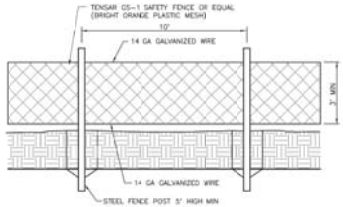
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

1 / C2.2 TYPE A INLET PROTECTION (IP)
NTS



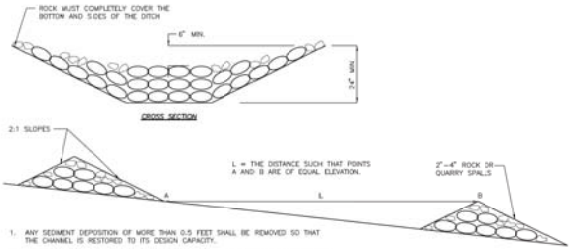
① PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 0.15' CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.

2 / C2.2 STABILIZED CONSTRUCTION ENTRANCE (CE)
NTS PER WSDOT STD. PLAN I-14



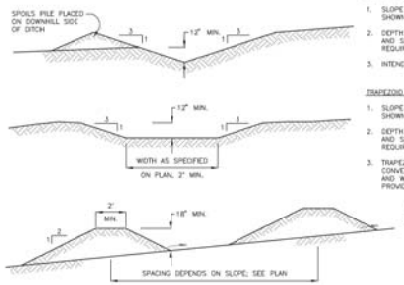
1. CLIP FENCE TO GALVANIZED WIRE AT 5 FOOT ON-CENTER SPACING.
2. WIRE FENCE TO STEEL FENCE POST.
3. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS.
4. MORE SUBSTANTIAL (CHAIN LINK) FENCING SHALL BE INSTALLED IF TEMPORARY FENCE FAILS TO PREVENT ENCROACHMENTS IN TO AREAS NOT TO BE DISTURBED.

3 / C2.2 TEMPORARY CLEARING/SAFTEY FENCE (TF)
NTS



1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

4 / C2.2 ROCK CHECK DAM (CD)
N.T.S.



V-DITCH SECTION (IS)

1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
2. DEPTH OF DITCH VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS, IF ANY.
3. INTENDED FOR MINOR FLOWS.

TRAPEZOID SWALE SECTION (IS)

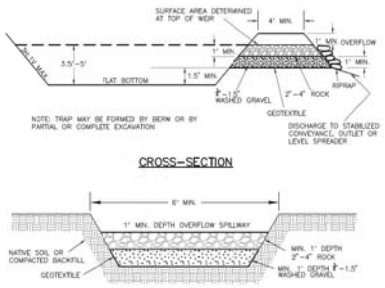
1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
2. DEPTH OF SWALE VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS.
3. TRAPEZOIDAL SWALE IS SIZED TO CONVEY A SPECIFIC FLOW, SLOPE, AND WIDTH SHOWN ON PLAN PROVIDES THE REQUIRED CAPACITY.

INTERCEPTOR DIKE (ID)

AVG. SLOPE	SPACING
3.5%	300 FT.
5–10%	200 FT.
10–25%	100 FT.
25–50%	50 FT.

1. DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY.
2. IF THE FACILITIES DO NOT ADEQUATELY INTERCEPT AND CHANNEL STORM RUNOFF, THE CAPACITY AND OR FREQUENCY SHALL BE REVISED

5 / C2.2 INTERCEPTOR SWALES & DIKES (IS) (ID)
N.T.S.

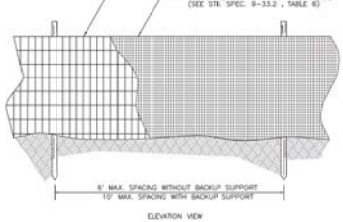


TRAP OUTLET

SEDIMENT TRAP NOTES

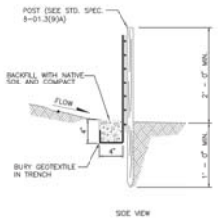
1. SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN IT REACHES 1 FOOT IN DEPTH.
2. ANY DAMAGE TO THE TRAP EMBANKMENTS FOR SLOPES SHALL BE REPAIRED.
3. TRAP OUTLET MAY NOT BE NEEDED ON THIS PROJECT.

7 / C2.2 SEDIMENT TRAP (ST)
N.T.S.



NOTES:

1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM THE TOE OF SLOPE AS POSSIBLE WITHOUT ENCROACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.3(9)A AND 8-01.3(15).



6 / C2.2 SILT FENCE (SF)
NTS PER WSDOT STD. PLAN I-4

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555

DATE	BY	
05/30/2011	CPK	
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06/14/2011	RJC	
06/30/2011	CPK	FINAL PERMIT SUBMITTAL
10/07/11	CPK	
5/7/21	CPK	
5/25/21	BT	

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STEPHEN A. LOVE STATE OF WASHINGTON 40404 REGISTERED PROFESSIONAL ENGINEER
October 27, 2011

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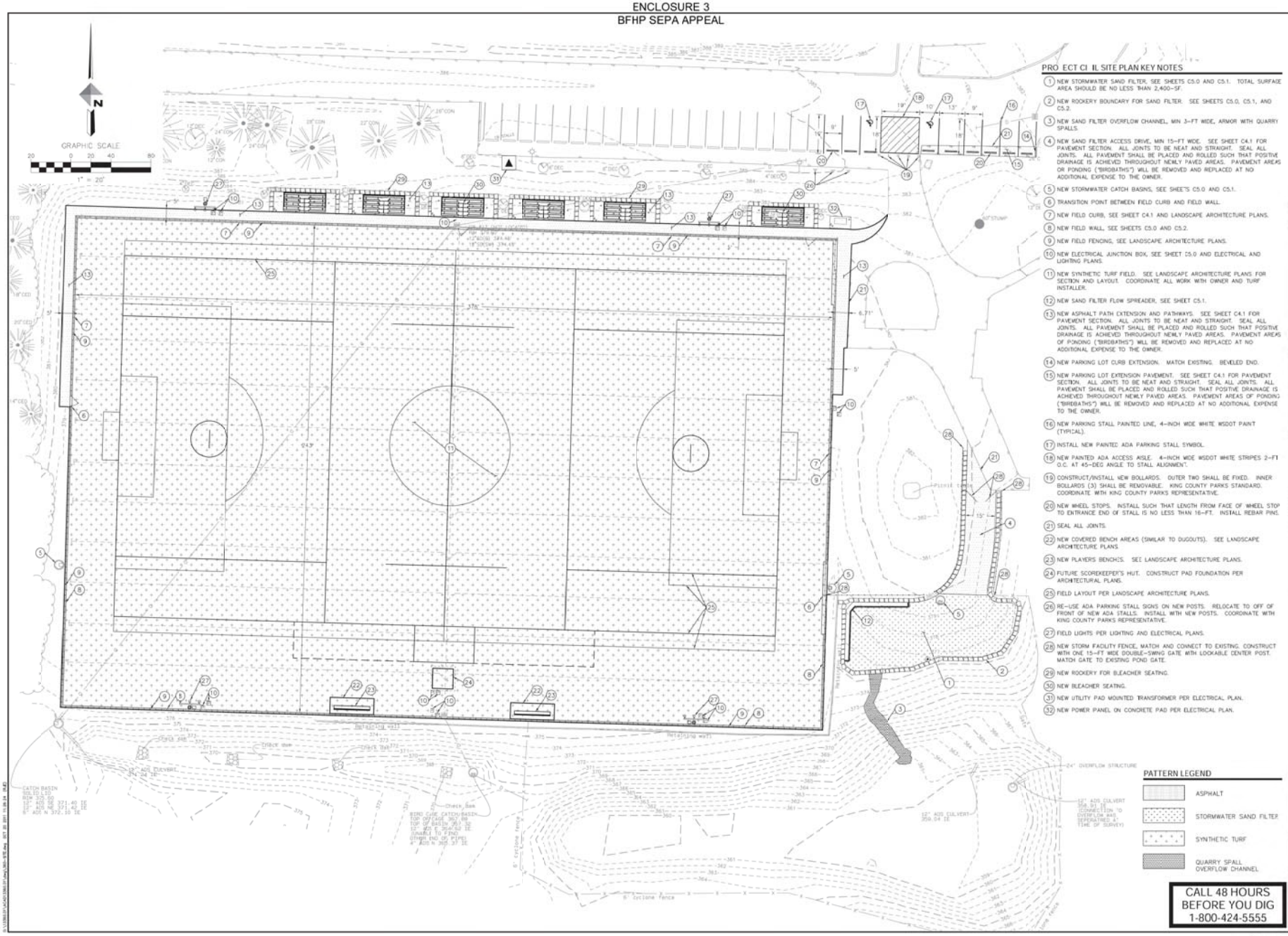

PROJECT CIVIL SITE PLAN KEY NOTES

1. NEW STORMWATER SAND FILTER. SEE SHEETS C5.0 AND C5.1. TOTAL SURFACE AREA SHOULD BE NO LESS THAN 2,400-SF.
2. NEW ROCKERY BOUNDARY FOR SAND FILTER. SEE SHEETS C5.0, C5.1, AND C5.2.
3. NEW SAND FILTER OVERFLOW CHANNEL, MIN 3-FT WIDE, ARMOR WITH QUARRY SPALLS.
4. NEW SAND FILTER ACCESS DRIVE, MIN 15-FT WIDE. SEE SHEET C4.1 FOR PAVEMENT SECTION. ALL JOINTS TO BE NEAT AND STRAIGHT. SEAL ALL JOINTS. ALL PAVEMENT SHALL BE PLACED AND ROLLED SUCH THAT POSITIVE DRAINAGE IS ACHIEVED THROUGHOUT NEWLY PAVED AREAS. PAVEMENT AREAS OR PONDING ("BIRDBATHS") WILL BE REMOVED AND REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. NEW STORMWATER CATCH BASINS, SEE SHEETS C5.0 AND C5.1.
6. TRANSITION POINT BETWEEN FIELD CURB AND FIELD WALL.
7. NEW FIELD CURB, SEE SHEET C4.1 AND LANDSCAPE ARCHITECTURE PLANS.
8. NEW FIELD WALL, SEE SHEETS C5.0 AND C5.2.
9. NEW FIELD FENCING, SEE LANDSCAPE ARCHITECTURE PLANS.
10. NEW ELECTRICAL JUNCTION BOX, SEE SHEET C5.0 AND ELECTRICAL AND LIGHTING PLANS.
11. NEW SYNTHETIC TURF FIELD. SEE LANDSCAPE ARCHITECTURE PLANS FOR SECTION AND LAYOUT. COORDINATE ALL WORK WITH OWNER AND TURF INSTALLER.
12. NEW SAND FILTER FLOW SPREADER, SEE SHEET C5.1.
13. NEW ASPHALT PATH EXTENSION AND PATHWAYS. SEE SHEET C4.1 FOR PAVEMENT SECTION. ALL JOINTS TO BE NEAT AND STRAIGHT. SEAL ALL JOINTS. ALL PAVEMENT SHALL BE PLACED AND ROLLED SUCH THAT POSITIVE DRAINAGE IS ACHIEVED THROUGHOUT NEWLY PAVED AREAS. PAVEMENT AREAS OF PONDING ("BIRDBATHS") WILL BE REMOVED AND REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
14. NEW PARKING LOT CURB EXTENSION. MATCH EXISTING. BEVELED END.
15. NEW PARKING LOT EXTENSION PAVEMENT. SEE SHEET C4.1 FOR PAVEMENT SECTION. ALL JOINTS TO BE NEAT AND STRAIGHT. SEAL ALL JOINTS. ALL PAVEMENT SHALL BE PLACED AND ROLLED SUCH THAT POSITIVE DRAINAGE IS ACHIEVED THROUGHOUT NEWLY PAVED AREAS. PAVEMENT AREAS OF PONDING ("BIRDBATHS") WILL BE REMOVED AND REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
16. NEW PARKING STALL PAINTED LINE, 4-INCH WIDE WHITE WSDOT PAINT (TYPICAL).
17. INSTALL NEW PAINTED ADA PARKING STALL SYMBOL.
18. NEW PAINTED ADA ACCESS AISLE. 4-INCH WIDE WSDOT WHITE STRIPES 2-FT O.C. AT 45-DEG ANGLE TO STALL ALIGNMENT.
19. CONSTRUCT/INSTALL NEW BOLLARDS. OUTER TWO SHALL BE FIXED. INNER BOLLARDS (3) SHALL BE REMOVABLE. KING COUNTY PARKS STANDARD. COORDINATE WITH KING COUNTY PARKS REPRESENTATIVE.
20. NEW WHEEL STOPS. INSTALL SUCH THAT LENGTH FROM FACE OF WHEEL STOP TO ENTRANCE END OF STALL IS NO LESS THAN 16-FT. INSTALL REBAR PINS.
21. SEAL ALL JOINTS.
22. NEW COVERED BENCH AREAS (SIMILAR TO DUGOUTS). SEE LANDSCAPE ARCHITECTURE PLANS
23. NEW PLAYERS BENCHES. SEE LANDSCAPE ARCHITECTURE PLANS.
24. FUTURE SCOREKEEPER'S HUT. CONSTRUCT PAD FOUNDATION PER ARCHITECTURAL PLANS.
25. FIELD LAYOUT PER LANDSCAPE ARCHITECTURE PLANS.
26. RE-USE ADA PARKING STALL SIGNS ON NEW POSTS. RELOCATE TO OFF OF FRONT OF NEW ADA STALLS. INSTALL WITH NEW POSTS. COORDINATE WITH KING COUNTY PARKS REPRESENTATIVE.
27. FIELD LIGHTS PER LIGHTING AND ELECTRICAL PLANS.
28. NEW STORM FACILITY FENCE, MATCH AND CONNECT TO EXISTING. CONSTRUCT WITH ONE 15-FT WIDE DOUBLE-SWING GATE WITH LOCKABLE CENTER POST. MATCH GATE TO EXISTING POND GATE.
29. NEW ROCKERY FOR BLEACHER SEATING.
30. NEW BLEACHER SEATING.
31. NEW UTILITY PAD MOUNTED TRANSFORMER PER ELECTRICAL PLAN.
32. NEW POWER PANEL ON CONCRETE PAD PER ELECTRICAL PLAN.

DATE	BY	
05/30/01	CPK	FINAL PERMIT SUBMITTAL
5/29/2001	CPK	
04/06/2001	RJC	
03/12/2001	CPK	
5/20/2001	CPK	
APPROVED		

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CHRISTOPHER J. KOSTY
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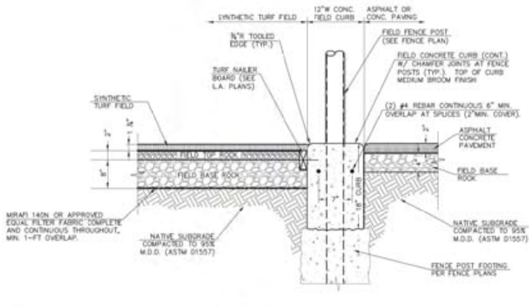
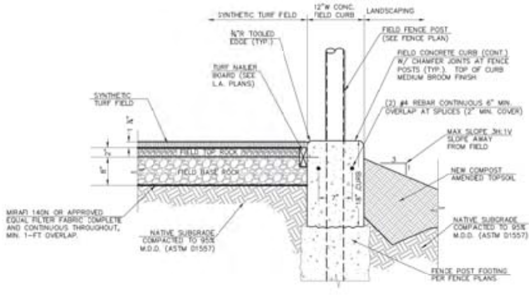
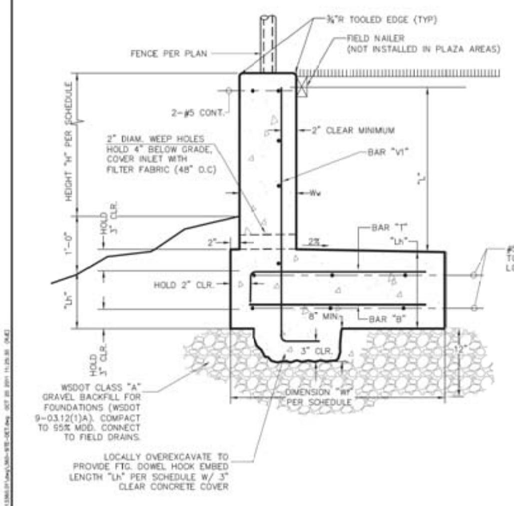


1 CONCRETE FIELD CURB SECTION ADJACENT TO PAVEMENT
C4.1 N.T.S.



2 CONCRETE FIELD CURB SECTION ADJACENT TO LANDSCAPING
C4.1 N.T.S.



3 FIELD RETAINING WALL DETAIL AND NOTES
C4.1 N.T.S.

RETAINING WALL GENERAL NOTES

HEIGHT H	FTG WIDTH W	WALL WIDTH W	BAR 1	DI L	DI L	BAR T	BAR B
0<H≤24"	38"	12"	#5V.@16"O.C.	22"	16"	#5 W-4" @16"O.C.	#5@16"O.C.
2'-0"<H≤46"	50"	12"	#5V.@16"O.C.	44"	16"	#5 W-4" @16"O.C.	#5@16"O.C.

CODES

- INTERNATIONAL BUILDING CODE – LATEST EDITION
- ASTM – LATEST EDITION
- ASCE 7-02

OSHA STANDARDS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROVISIONS OF THE CURRENT OSHA OR SUPERCEDING STATE STANDARDS. THE GENERAL CONTRACTOR SHALL REVIEW THESE STRUCTURAL DRAWINGS FOR ANY NONCOMPLIANCE WITH OSHA STANDARDS, TAKING INTO ACCOUNT THE GENERAL CONTRACTOR'S MEANS AND METHODS. THE GENERAL CONTRACTOR SHALL INFORM OWNER OF ANY NONCOMPLIANCE SO THE DRAWINGS MAY BE MODIFIED FOR COMPLIANCE PRIOR TO CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS AS WELL AS JOBSITE SAFETY ON THIS PROJECT.

FOUNDATION

THE FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1800 PSF. PREPARE THE SITE PER SOILS ENGINEER'S RECOMMENDATIONS. BEAR ALL FOOTINGS AND SLABS ON PROPERLY PREPARED AND COMPACTED STRUCTURAL FILL. SEE SOILS REPORT. COMPACT ALL STRUCTURAL FILL AND BACKFILL PER SOILS ENGINEER'S RECOMMENDATIONS. DETERMINE MAXIMUM DENSITY VIA ASTM D-1557.

RETAINING WALL CAST-IN-PLACE CONCRETE

F'c = 4000 PSI FOR ALL CAST-IN-PLACE-CONCRETE FOR RETAINING WALLS UNLESS OTHERWISE NOTED. ULTIMATE STRENGTH DESIGN METHOD SHALL BE USED. SUBMIT MIX DESIGN AND DATA. MAXIMUM WATER-CEMENT RATIO BY WEIGHT SHALL BE 0.46 FOR AIR-ENTRAINED CONCRETE. MIXING AND PLACING OF ALL CONCRETE, AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC AND ACI CODE 318. PROPORTION AGGREGATE TO CEMENT RATIO TO PRODUCE A DENSE WORKABLE MIX WITH 4" MAXIMUM SLUMP, WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. SEE SPECIFICATIONS FOR ADMIXTURES. PROVIDE 5% ± 0.5% TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO FREEZING AND THAWING EXPOSURES. LIMIT WATER-CEMENT RATIO TO 0.45 AND USE TYPE V CEMENT WHERE CONCRETE IS EXPOSED TO SOIL CONTAINING WATER SOLUBLE SULFATE IN EXCESS OF 0.2%. ADD NO WATER AT SITE. WATER REDUCING OR SUPERPLASTICIZING ADMIXTURES MAY BE USED TO INCREASE WORKABILITY WITHOUT INCREASING WATER-CEMENT RATIO OF DESIGN MIX SUBMITTAL. SEE SPECIFICATIONS FOR CURING ¼" CHAMFER ALL EXPOSED CONCRETE EDGES UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS.

LOADS

EARTH PRESSURES:

ACTIVE PRESSURE	40 pcf
PASSIVE PRESSURE	250 pcf
SURCHARGE	80 psf (PROPERTY LINE RETAINING WALLS)

REINFORCING STEEL

USE DEFORMED CONCRETE REINFORCING STEEL CONFORMING WITH ASTM A615, GRADE 60 (fy=60,000 psi). LAP CONTINUOUS REINFORCING BARS 52 BAR DIAMETERS FOR #4 THROUGH #6 AND 62 BAR DIAMETERS FOR #7 AND LARGER, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS FOR HORIZONTAL REINFORCEMENT AS DETAILED. DETAIL STEEL IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES". WELDED WIRE FABRIC (WWF) TO CONFORM WITH ASTM A185. REINFORCING HOOKS TO COMPLY WITH STANDARD ACI HOOKS EXCEPT STIRRUPS AND TIES SHALL HAVE 135 DEGREE ACI SEISMIC HOOKS.

COVER TO REINFORCEMENT:

NON-PRESTRESSED CAST-IN-PLACE CONCRETE		(INCHES)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH FORMED SURFACES		3"
EXPOSED TO EARTH OR WEATHER	#6 AND LARGER	2"
	#5 AND SMALLER	1½"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, JOISTS	#4 AND LARGER	1½"
	#3 AND SMALLER	¾"
BEAMS, COLUMNS		
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS		1½"

INSPECTIONS

INSPECTIONS ARE TO BE PER IBC AND ARE TO BE BY AN INDEPENDENT TESTING LAB.

FOUNDATION: INSPECT FOOTING EXCAVATIONS AND PROVIDE COMPACTION TESTS.

CONCRETE: TAKE CONCRETE CYLINDERS AS REQUIRED BY CODE, VERIFY SLUMP, STRENGTH, AIR CONTENT, PLACEMENT OF CONNECTIONS AND ANCHOR BOLTS.

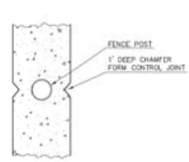
REINFORCING: VERIFY THAT ALL REINFORCING IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE, GRADE, AND SPACING.

SHOP DRAWINGS

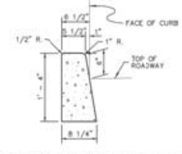
SUBMIT SETS OF HARD COPY AND ELECTRONIC COPY SHOP DRAWINGS TO ENGINEER FOR REVIEW AFTER CONTRACTOR HAS REVIEWED & STAMPED FOR COMPLIANCE AND PRIOR TO FABRICATION FOR: REINFORCING STEEL.

GENERAL NOTES

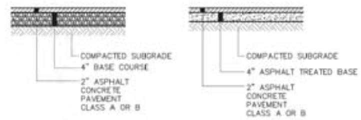
1. WALL ALIGNMENT PER PLAN.
2. PROVIDE WALL EXPANSION JOINTS AT 10' O.C. AND AT 5' OFF CORNERS.



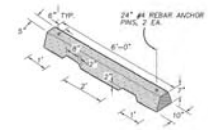
4 FIELD CURB AT FENCE POST PLAN DETAIL
C4.1 N.T.S.



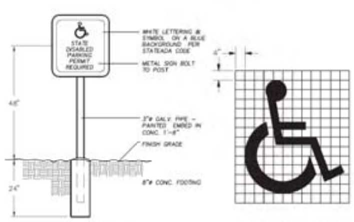
5 CEMENT CONCRETE VERTICAL BARRIER CURB
C4.1 NTS



6 ASPHALT CONCRETE PAVEMENT SECTION (WITH ATB AS ALTERNATIVE)
C4.1 NTS

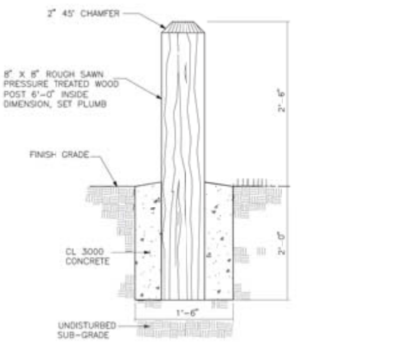


7 PRE-MOLDED PLASTIC WHEEL STOP
C4.1 NTS

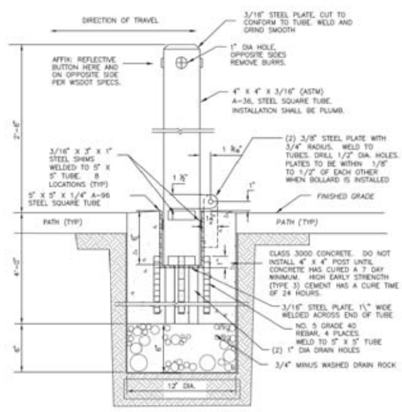


ADA PARKING SIGN ***ADA PARKING STALL SYMBOL (TYP)***

8 ADA PARKING STALL STRIPING AND SIGN
C4.1 NTS



9 STANDARD FIXED BOLLARD (PER KING COUNTY PARKS)
C4.1 NTS



NOTES:
1. PADLOCK SHALL BE MASTER KEYED ALIKE TO SM-737 WITH NO. 5LF SHACKLE. OWNER PROVIDED.
2. SLOPE TOP OF CONCRETE FOOTING TO DRAIN AWAY FROM POST.
3. HOT DIP GALV. & PRIME PAINT – FINISH COLOR TO BE WHITE MARINE ENAMEL

10 REMOVABLE BOLLARD (PER KING COUNTY PARKS)
C4.1 NTS

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555

DATE	BY	REVISION
10/21/11	CPK	FINAL PERMIT SUBMITTAL
9/12/11	CPK	BID ISSUE
5/27/11	CPK	C&G PERMIT SUBMITTAL

	DATE	BY
DESIGNED	5/09/2011	CPK
DRAWN	5/12/2011	RJE
CHECKED	5/20/2011	CPK
APPROVED		

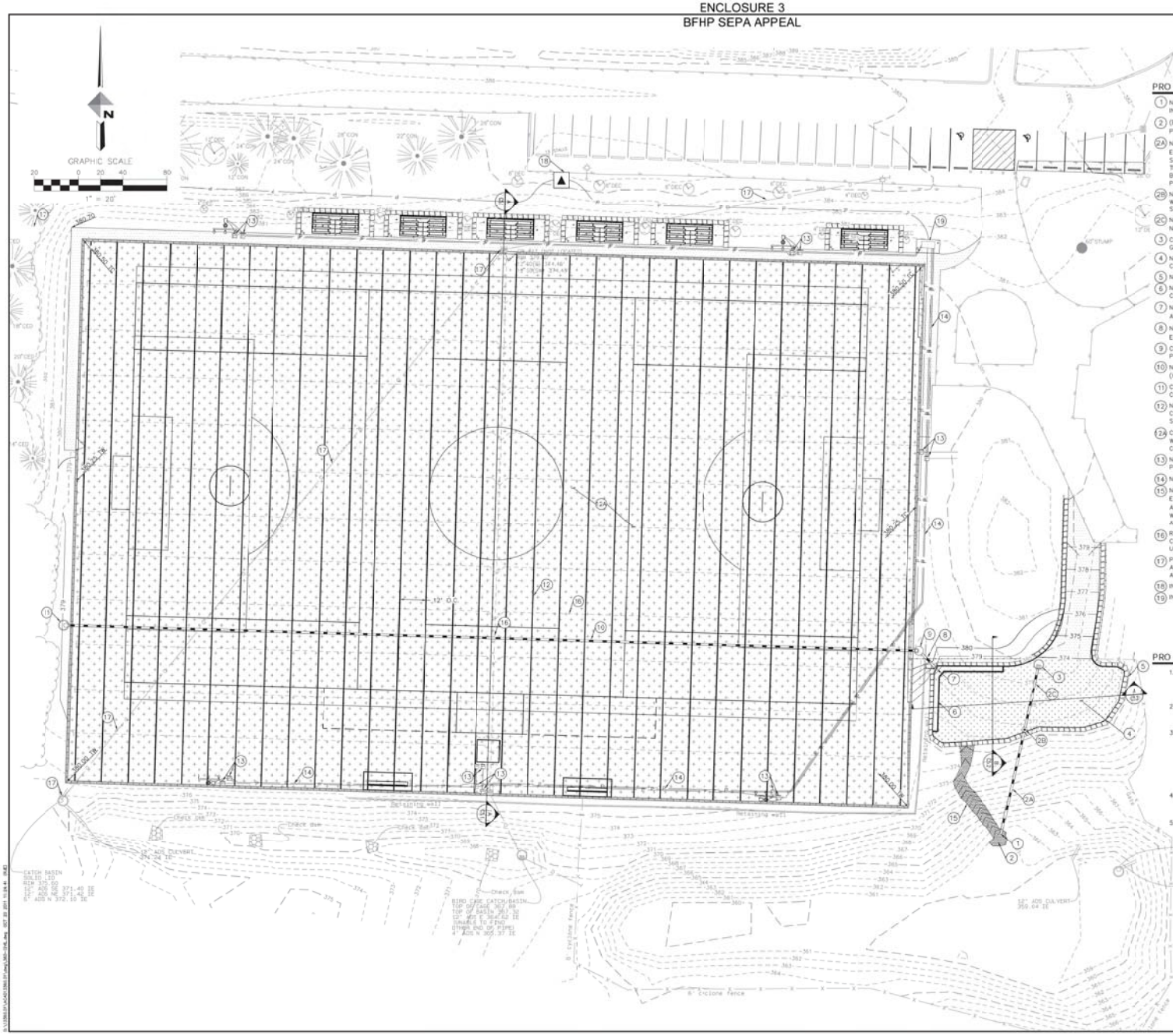
DOWL HKM
8420 154TH AVENUE NE REDMOND, WA 98052
TEL: (425) 869-2670 FAX: (425) 869-2679

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

SITE CIVIL DETAILS & NOTES
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF THE SE 1/4 OF S 24 - T 26N - R 04E

SCALE:	1"=20'
F.B.:	
W.O.:	13360.01
FILE NO.:	S224-18
SHEET	C4.1



PROJECT CIVIL SITE PLAN KEY NOTES

1. NEW STORM SYSTEM OUTLET. 12-INCH ADS N-12 (OR APPROVED EQUAL). INSTALL DEBRIS BARRIER AND PIPE ANCHOR. QUARRY SPALL ARMORING
2. (ENERGY DISSIPATER) AT OUTLET . ASSUME 10-FT X 10-FT X 1-FT DEEP PAD ON MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL).

2A. NEW STORM OUTFALL PIPE. SOLID WALL 12-INCH ADS N-12 (OR APPROVED EQUAL). INSTALL PIPE ANCHORS AT BOTH ENDS AND ON AT MIDPOINT OF SLOPED SEGMENT. HAND COMPACT TRENCH WITH NATIVE MATERIAL. COVER TRENCH WITH ONE CONTINUOUS ROLLED STRIP OF JUTE MAT. ANCHOR ON BOTH SIDES WITH WOOD STAKES AT 5-FT O.C. HYDROSEED AS SOON AS POSSIBLE. SEE PROFILE ON SHEET C5.1.

2B. NEW PIPE CONNECTIONS – PIPE VERTICAL BEND, AND SWEEP WYE. EXTEND WYE UP TO 18-INCHES ABOVE SAND FILTER AND CAP. SEE PROFILE ON SHEET C5.1.

2C. NEW SAND FILTER UNDERDRAIN COLLECTOR PIPE – 12-INCH PERFORATED ADS N-12(OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.

3. CB-C01 – NEW OVERFLOW TYPE-2 48-INCH CATCH BASIN WITH BIROCAGE GRATE PER KCSWDM 2009, FIGURE 5.3.1.C. SEE PROFILE ON SHEET C5.1.
4. NEW STORMWATER SAND FILTER PER KCSWDM 2009. SEE SHEETS C5.1 AND C5.2. INCLUDE INSTALLATION OF COMPLETE IMPERMEABLE LINER UNDER SAND.
5. NEW ROCKERY BOUNDARY FOR SAND FILTER. SEE SHEETS C5.1 AND C5.2.
6. NEW SAND FILTER SYSTEM FLOW SPREADER PER KCSWDM 2009. SEE SHEET C5.2.
7. NEW UNDERDRAIN PIPE OUTFALL TO SAND FILTER. 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.
8. NEW UNDERDRAIN PIPE TO SAND FILTER. 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.
9. CB-C02 – NEW TYPE-2 48-INCH CATCH BASIN WITH SOLID LOCKING LID. SEE PROFILE ON SHEET C5.1.
10. NEW FIELD UNDERDRAIN COLLECTOR PIPE. PERFORATED 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE AND DETAIL ON SHEET C5.1.
11. CB-C03 – NEW TYPE-2 54-INCH CATCH BASIN WITH SOLID LOCKING LID AND CONTROL STRUCTURE. SEE PROFILE ON SHEET C5.1.
12. NEW ENKA TURF SUBDRAINAGE MAT, SPACING AT 12-FT O.C. TO FIELD COLLECTOR UNDERDRAIN PIPE. SLOPE TO COLLECTOR PIPE AT MINIMUM SLOPE OF 1%. SEE SHEET C5.1.

2A. COVER ENTIRE SUBGRADE WITH MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL) WITHIN FIELD CURBS AND FIELD WALLS. GEOFABRIC COVERAGE SHALL BE CONTINUOUS AND COMPLETE WITH MINIMUM 1-FT OVERLAPS. SEE SHEET C5.1.

13. NEW ELECTRICAL JUNCTION BOX, SET FLUSH TO FINISH GRADE. SEE ELECTRICAL PLANS.
14. NEW POWER AND TELECOM CONDUIT(S) PER ELECTRICAL PLANS.
15. NEW STORM SAND FILTER OVERFLOW CHANNEL – 1-FT DEEP X 3-FT WIDE EXCAVATED TRENCH. LINE WITH ANCHORED MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL). OVERLAP UPPER PORTION OVER NEXT LOWER. ARMOR WITH QUARRY SPALLS AND HYDROSEED CHANNEL AND ADJACENT DISTURBED AREAS.
16. REMOVE EXISTING UNDERDRAIN SYSTEM, ONLY WHERE NECESSARY TO COMPLETE CONSTRUCTION OF PROPOSED PROJECT FIELD IMPROVEMENTS. REMAINING UNDERDRAIN ITEMS TO BE LEFT IN PLACE.
17. PROTECT EXISTING DRAINAGE CONVEYANCE LINE. RESTORE AND REPAIR ANY AND ALL DAMAGE RESULTING FROM OR RELATED TO PROJECT WORK ACTIVITIES. ADD NEW RISERS TO CATCH BASINS TO BRING TO PROPOSED GRADE.
18. INSTALL UTILITY PAD MOUNTED TRANSFORMER PER ELECTRICAL PLAN.
19. INSTALL POWER PANEL ON CONCRETE PAD PER ELECTRICAL PLAN.

PROJECT GENERAL CIVIL NOTES

1. ALL EXISTING FEATURES AND UTILITIES ON THE PLANS ARE BASED ON INFORMATION PROVIDED BY OTHERS. CONTRACTOR ASSUMES FULL RESPONSIBILITY TO FIELD VERIFY EXACT LOCATIONS OF ANY AND ALL FEATURES AND UTILITIES IN PROJECT WORK AREAS.
2. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO IMPORT AND EXPORT MATERIALS TO COMPLETE THE WORK AND TO BRING TO DESIGN GRADE, AND ALL QUANTITY ESTIMATES TO ACHIEVE SUCH RESULTS.
3. ALL EXCESS MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED. ALL DISTURBED NON-PAVED AREAS SHALL BE COVERED WITH 6-INCHES OF WELL BLENDED 50/50 MIXTURE OF WSDOT TOPSOIL TYPE B (WSDOT 9-14.1(2)) AND WSDOT COMPOST (WSDOT 9-14.4(8)). FINE GRADE BY HAND, REPLANT AND/OR SEED PER OWNER. COVER ALL AREAS NOT PLANTED OR SEEDED WITH WSDOT WOOD STRAND MULCH (WSDOT 9-14.4(4)).
4. CLEAN ALL CONCRETE SURFACES IN WORK AREAS. LEAVE NO PAINT, PAVING RESIDUE, OR OTHER WASTES OR MARKS ON PROJECT CONCRETE AND/OR SURFACES.
5. CONDUIT ALIGNMENTS SHOULD BE INSTALLED AS SHOWN ON THIS CIVIL PLAN, WITH REFERENCE TO THE ELECTRICAL PLAN FOR ROUTING AND ELECTRICAL DESIGN.

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

DATE	BY	
05/30/00	CPK	
5/29/2001	CPK	
06/18/2001	RJC	
09/20/2001	CPK	FINAL PERMIT SUBMITTAL
5/20/2011	CPK	10/21/11 CPK
		5/7/21 CPK
		6/7/21 CPK
		8/4/21 BT
		8/25/25

APPROVED

DOWL HKM
8400 154TH AVENUE NE REDMOND, WA 98052
TEL: (425) 889-2070 FAX: (425) 889-2879

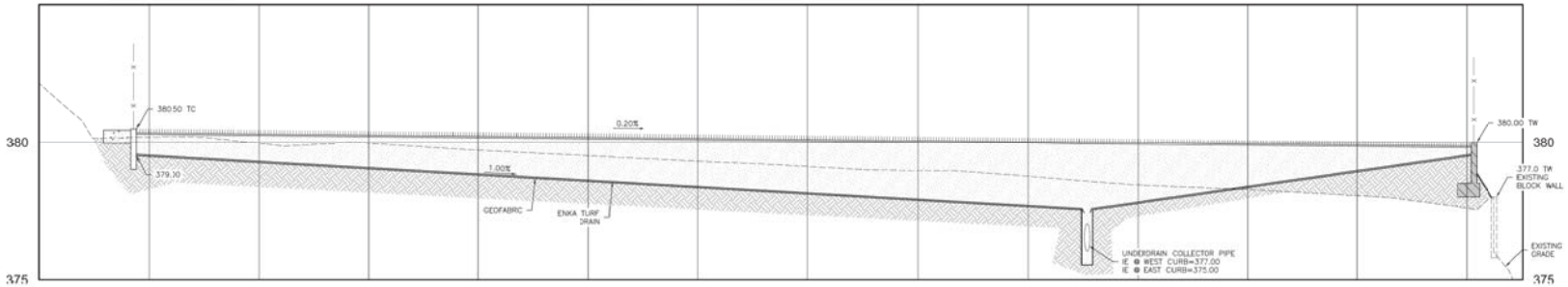
CHRISTOPHER K. PAYNE
STATE OF WASHINGTON
40404
REGISTERED PROFESSIONAL ENGINEER
October 27, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

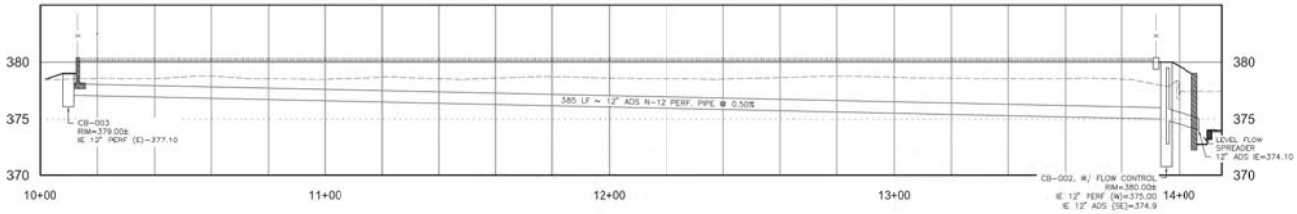
COMBINED CIVIL PLAN
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
S 24 - T 26N - R 04E

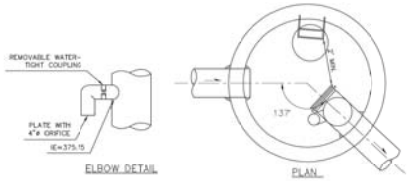
SCALE: 1"=20'
J.B.:
W.O.: 13360.01
FILE NO.: S224-18
SHEET
C5.0

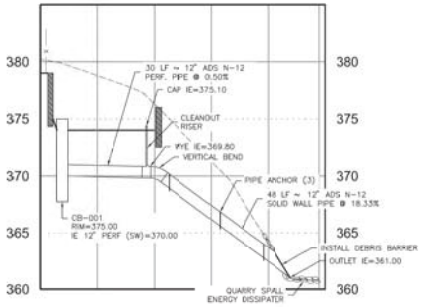


1 FIELD SECTION A-A
C5.1 SCALE: 1"=10' H, 1"=2' V

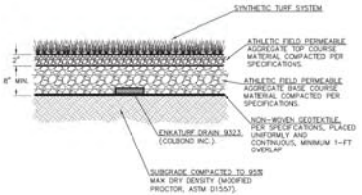


2 STORM DRAINAGE PROFILE
C5.1 SCALE: 1"=20' H, 1"=5' V

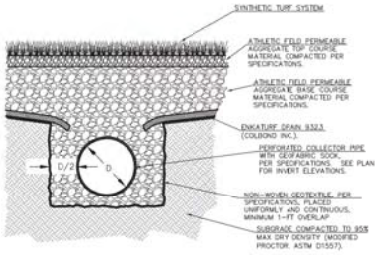




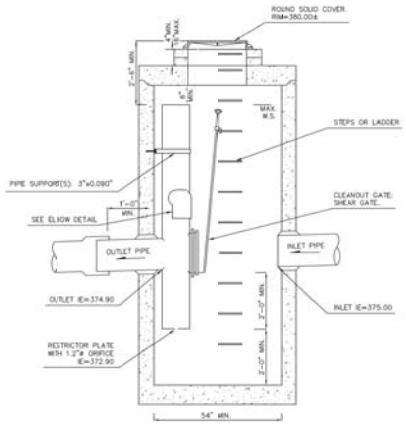
3 STORM DRAINAGE PROFILE
C5.1 SCALE: 1"=20' H, 1"=5' V



4 SYNTHETIC TURF BASE SECTION WITH ENKA TURF DRAIN
C5.1 NTS



5 FIELD COLLECTOR DRAIN SECTION DETAIL
C5.1 NTS



6 CB-002, TYPE -2 54" FLOW CONTROL CATCH BASIN
C5.1 NTS

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9/14/2011	RJC	
5/20/2011	CPK	

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TEL: (425) 889-3070 FAX: (425) 889-3070

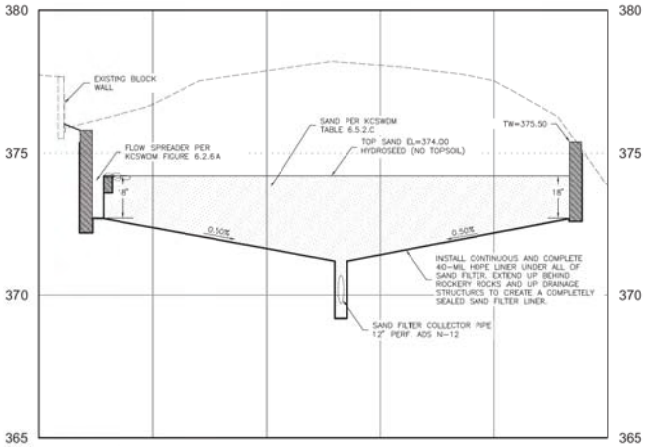
CHRISTOPHER KOTY, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 24900, October 27, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

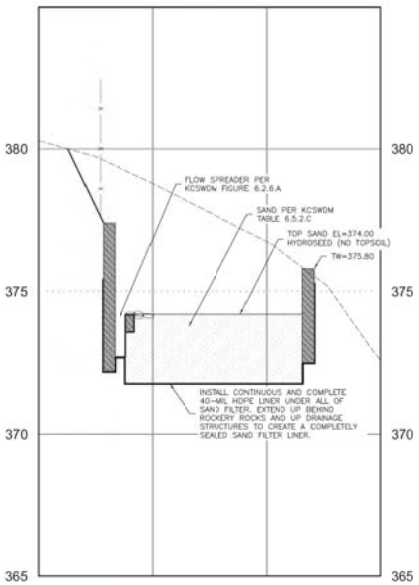
DRAINAGE PROFILES & DETAILS
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF THE SE 1/4 OF S 24 - T 26N - R 04E

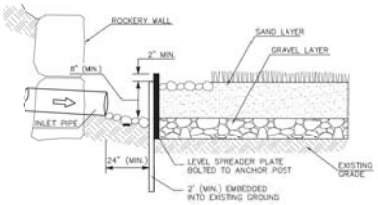
SCALE: 1"=20'
J.B.:
W.O.: 13360.01
FILE NO.: S224-18
SHEET
C5.1



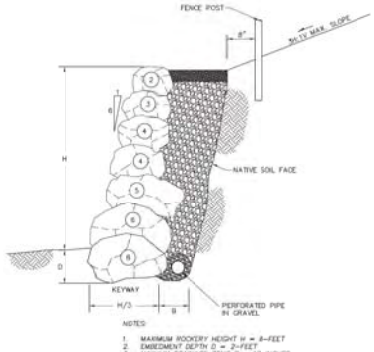
SAND FILTER SECTION A-A
SCALE: 1"=10' H, 1"=2' V



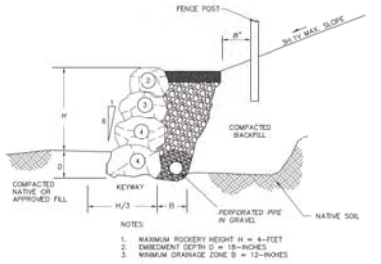
SAND FILTER SECTION B-B
SCALE: 1"=10' H, 1"=2' V



1 C52 FLOW SPREADER OPTION A: ANCHORED PLATE
NTS KCSWDM FIGURE 6.2.6.A



2 C52 ROCK FACING, CUT SECTION
NTS ADAPTED FROM KCPW DWG. NO. 5-004



3 C52 ROCK FACING, UNREINFORCED FILL SECTION
NTS ADAPTED FROM KCPW DWG. NO. 5-005

GENERAL NOTES

1. ROCKERY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE KING COUNTY ROAD STANDARDS, THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND THE ASSOCIATED ROCKERY CONTRACTOR GUIDELINES.
2. A 6-INCH DIAMETER PERFORATED DRAIN PIPE AND DRAINAGE ROCK SHALL BE INSTALLED BEHIND THE ROCKERY, AS INDICATED ON THE DETAILS. CONTRACTOR SHALL EXTEND A COMPLETE PIPE CONNECTION OF ROCKERY DRAIN PIPE TO NEAREST ADJACENT CATCH BASIN OR OTHER DISCHARGE POINT PER THE PROJECT ENGINEER. EXTENSION OF THE CONNECTION PIPE SHALL BE INCLUDED IN THE PROJECT BID AND CONTRACT.
3. MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCKERIES SHOULD BE 3H:1V (HORIZONTAL:VERTICAL).
4. MINIMUM THICKNESS OF ROCK FILTER LAYER B = 12-INCHES.
5. ROCKERIES GREATER THAN 8-FEET IN HEIGHT TO BE INSTALLED UNDER FULL-TIME OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER.
6. UNLESS OTHERWISE SPECIFIED, ALL ROCKS PLACED IN THE LOWER TWO-THIRDS OF THE WALL SHOULD BE 3 TO 8 MAN ROCK, 4000 LBS. OR LARGER. ROCKS PLACED ABOVE THIS LEVEL SHOULD GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT USING 2 TO 5 MAN ROCK, 700 TO 6000 LBS. NO ROCKS SMALLER THAN 300 LBS. SHALL BE USED. ANY ROCKS USED FOR CHINKING SHALL BE PLACED SUCH THAT THEY ARE VANDAL-PROOF AND NOT REMOVABLE BY HAND.
7. THE LONG DIMENSION OF ROCKS SHOULD EXTEND BACK TOWARDS THE CUT OR FILL FACE TO PROVIDE MAXIMUM STABILITY.
8. ROCKS SHOULD BE PLACED TO AVOID CONTINOUS JOINT PLANES IN VERTICAL OR LATERAL DIRECTIONS. EACH ROCK SHOULD BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.
9. ALL ROCKERIES OVER 4 FEET HEIGHT SHOULD BE CONSTRUCTED ON BASIS OF WALL MASS, NOT SQUARE FOOTAGE OF FACE.
10. FENCE OR HANDRAIL REQUIRED AT TOPS OF ROCKERIES IN AREAS OF PEDESTRIAN ACCESS AND WHERE WALL HEIGHT IS GREATER THAN 36-INCHES.

GEOFABRIC SOIL REINFORCEMENT NOTES

1. GEOSYNTETIC REINFORCEMENT SHALL CONSIST OF GEOFABRIC OR GEOGRID MANUFACTURED SPECIFICALLY FOR SOIL REINFORCEMENT APPLICATIONS AND SHALL BE MANUFACTURED FROM HIGH TENACITY POLYESTER YARN OR HIGH DENSITY POLYETHYLENE. POLYESTER GEOGRID/GEOFABRIC SHALL BE KNITTED FROM HIGH TENACITY POLYESTER FILAMENT YARN WITH A MOLECULAR WEIGHT EXCEEDING 25,000 MEG/M AND A CARBOXYL END GROUP VALUES LESS THAN 300. POLYESTER GEOGRID/GEOFABRIC SHALL BE COATED WITH AN IMPREGNATED PVC COATING THAT RESISTS PEELING, CRACKING AND STRIPPING.
2. TENSAR UX 1400HS, MIRAGRID 3XT, MIRAFI HP570 OR APPROVED EQUIVALENT SHALL BE USED FOR REINFORCED FILL CONSTRUCTION.
3. MANUFACTURING QUALITY CONTROL
   THE GEOFABRIC OR GEOGRID MANUFACTURER SHALL HAVE A MANUFACTURING QUALITY CONTROL PROGRAM THAT INCLUDES QC TESTING BY AN INDEPENDENT LABORATORY.
   THE QC TESTING SHALL INCLUDE:
   - A. TENSILE STRENGTH TESTING,
   - B. MELT FLOW INDEX (HDPE),
   - C. MOLECULAR WEIGHT (POLYESTER).

STRUCTURAL GEOGRID/GEOFABRIC INSTALLATION NOTES

1. GEOGRID/GEOFABRIC SHALL BE ORIENTED WITH THE HIGHEST STRENGTH AXIS PERPENDICULAR TO THE ROCKERY ALIGNMENT.
2. GEOGRID/GEOFABRIC REINFORCEMENT SHALL BE PLACED AT THE STRENGTHS, LENGTHS AND ELEVATIONS SHOWN ON THE CONSTRUCTION DESIGN DRAWINGS OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
3. THE GEOGRID/GEOFABRIC SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL AND EXTEND TO THE BACK OF THE ROCKERY. THE GEOGRID/GEOFABRIC SHALL BE PULLED TAUT, AND ANCHORED PRIOR TO BACKFILL PLACEMENT ON THE GEOGRID/GEOFABRIC.
4. GEOGRID/GEOFABRIC REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTHS AND PLACED SID-BY-SIDE TO PROVIDE 100% COVERAGE AT EACH LEVEL. SPLICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID/GEOFABRIC OR GAPS BETWEEN ADJACENT PLACES OF GEOGRID/GEOFABRIC ARE NOT PERMITTED.

REINFORCED BACKFILL PLACEMENT NOTES

1. GEOGRID/GEOFABRIC SHALL BE ORIENTED WITH THE HIGHEST STRENGTH AXIS PERPENDICULAR TO THE ROCKERY ALIGNMENT.
2. GEOGRID/GEOFABRIC REINFORCEMENT SHALL BE PLACED AT THE STRENGTHS, LENGTHS AND ELEVATIONS SHOWN ON THE CONSTRUCTION DESIGN DRAWINGS OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
3. THE GEOGRID/GEOFABRIC SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL AND EXTEND TO THE BACK OF THE ROCKERY. THE GEOGRID/GEOFABRIC SHALL BE PULLED TAUT, AND ANCHORED PRIOR TO BACKFILL PLACEMENT ON THE GEOGRID/GEOFABRIC.
4. GEOGRID/GEOFABRIC REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTHS AND PLACED SID-BY-SIDE TO PROVIDE 100% COVERAGE AT EACH LEVEL. SPLICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID/GEOFABRIC OR GAPS BETWEEN ADJACENT PLACES OF GEOGRID/GEOFABRIC ARE NOT PERMITTED.

NATIVE CUT ROCKERY NOTES

1. THE GEOTECHNICAL ENGINEER SHALL OBSERVE CUTS FOR THE ROCKERY.
2. ADDITIONAL FLATTENING OF CUTS MAY BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER DEPENDING ON THE SOIL AND GROUNWATER CONDITONS OBSERVED.

FIELD QUALITY CONTROL NOTES

1. THE ROCKERY CONSTRUCTION SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER.
2. TESTING OF THE COMPACTED BACKFILL SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER.
3. QUALITY ASSURANCE SHALL INCLUDE FOUNDATION SOIL INSPECTON, SOIL AND BACKFILL TESTING, VERIFICATION OF DESIGN PARAMETERS, AND OBSERVATION OF CONSTRUCTION FOR GENERAL COMPLIANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS.

LEGEND

- DRINAGE MATERIALS TO CONSIST OF CLEAN ANGULAR WELL-GRADED 2-INCH TO 4-INCH QUARRY SPALLS.
- SURFACE SEAL: GRANULAR DRAIN MATERIAL [WSDOT 9-03.12(4)].
- COMPACTED OR APPROVED UNDISTURBED FIRM NATIVE SOIL.
- DRAIN PIPE: 6-INCH MINIMUM DIAMETER, PERFORATED OR SLOTTED PLASTIC (ADS) PIPE CONSTRUCTED WITH A POSITIVE GRADIENT TO DISCHARGE AWAY FROM THE WALL.
- (6) ROCK SIZE (E.G. 6-MAN ROCK).
- GRAVEL DRAIN BACKFILL [WSDOT 9-03.12(4)].

ROCKERY MATERIALS		
ROCK SIZE	APPROX. WEIGHT (LBS)	APPROX. DIAM. (INCHES)
1 MAN	50 – 200	12" – 18"
2 MAN	200 – 700	12" – 28"
3 MAN	700 – 2,000	21" – 36"
4 MAN	2,000 – 4,000	36" – 48"
5 MAN	4,000 – 6,000	48" – 54"
6 MAN	6,000 – 8,000	54" – 60"

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

DATE	BY	
05/29/01	CPK	
9/28/2011	CPK	
09/30/2011	RJC	FINAL PERMIT SUBMITTAL
5/20/2011	CPK	
10/27/11	CPK	
5/7/11	CPK	
6/9/11	BY	

DOWL HKM
8420 154TH AVENUE NE REDMOND, WA 98052
TEL: (425) 889-3070 FAX: (425) 889-3079

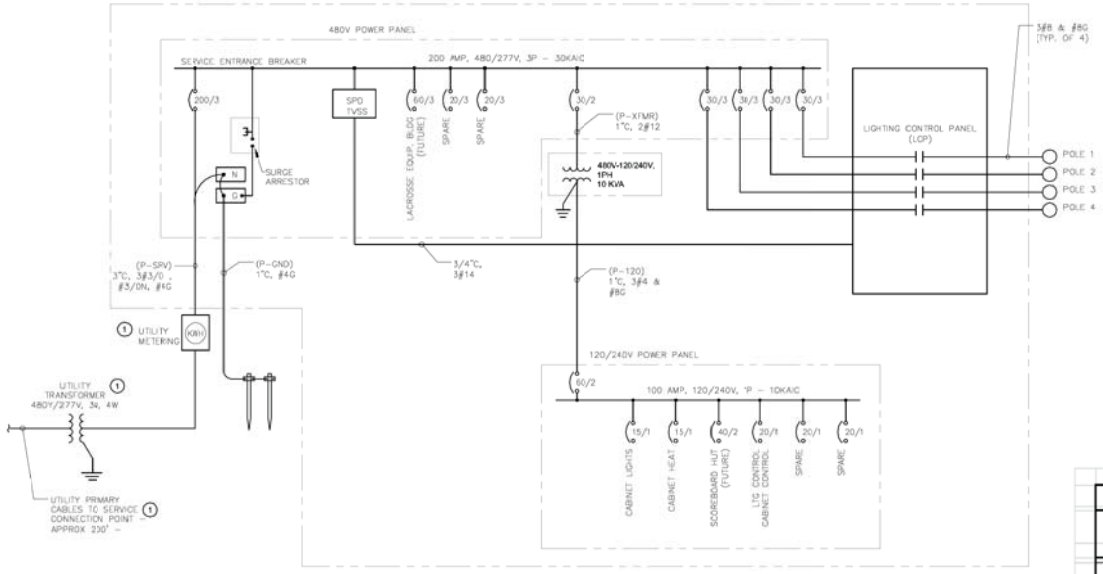
STEPHEN C. SCHOLZ, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 23411
October 27, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

GRADING & DRAINAGE DETAILS
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF THE SE 1/4 OF S 24 - T 26N - R 04E

SCALE: 1"=20'
D.B.:
W.O.: 13360.01
FILE NO.: S224-18
SHEET
C5.2



ONE-LINE DIAGRAM
N.T.S.

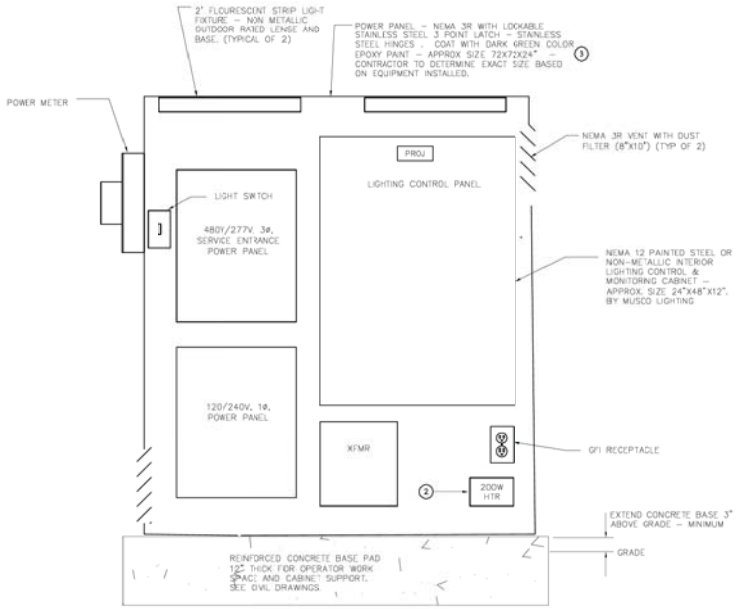
GENERAL NOTES:

1. PROVIDE WATER SEAL ON INSIDE OF RACEWAYS FOR ALL UNDERGROUND RACEWAY PENETRATIONS. PROVIDE WATER-TIGHT SEAL AROUND OUTSIDE OF ALL CONDUIT PENETRATIONS.

NOTES:

1. UTILITY METER BASE & POWER DISCONNECT PROVIDED PER UTILITY REQUIREMENTS. VERIFY ALL UTILITY SERVICE EQUIPMENT AND INSTALLATIONS ARE ACCEPTABLE PER SERVING UTILITY.
2. ELECTRIC HEATER WITH INTEGRA. THERMOSTAT HEATER SHALL BE HOFTMAN.
3. CONTRACTOR TO SIZE CABINET FOR EQUIPMENT INSTALLED. PROVIDE WITH PAD-LOCKABLE 3-POINT LATCH. VERIFY SIZE WIT4 LIGHTING MANUFACTURER PRIOR TO PURCHASE AND ROUGH-IN.

BIG FINN PARK LOADS					
LOAD DESCRIPTION	NO.	KVA EACH	Total Duty KVA	PLANT LOAD NO.	PLANT LOAD KVA
SCORE HUT	1	5	5	1.00	5
LACROSSE BLDG	1	15	15	1.00	15
FIELD LIGHTING	4	20	80	4.00	80
MISC	1	1	1	1.00	1
			Total Duty	DESIGN TOTAL	
KVA SUB-TOTAL			101	KVA	101
AMPS @ 480V, 3P			122	AMPS	122



POWER PANEL ELEVATION
N.T.S.

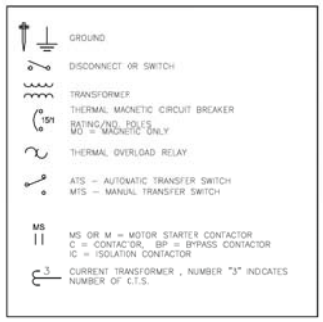
6"

BIG FINN PARK
KIRKLAND YOUTH LACROSSE
LIGHTING CONTROL PANEL

ENGINEER: DOWL HKM
ELECTRICAL ENGINEER: FOLLETT ENGINEERING
ELECT. CONTRACTOR: .
LIGHTING MANUFACTURER: MUSCO LIGHTING

4"

DETAIL – PROJECT NAMEPLATE
(MOUNT ON OUTER DOOR)



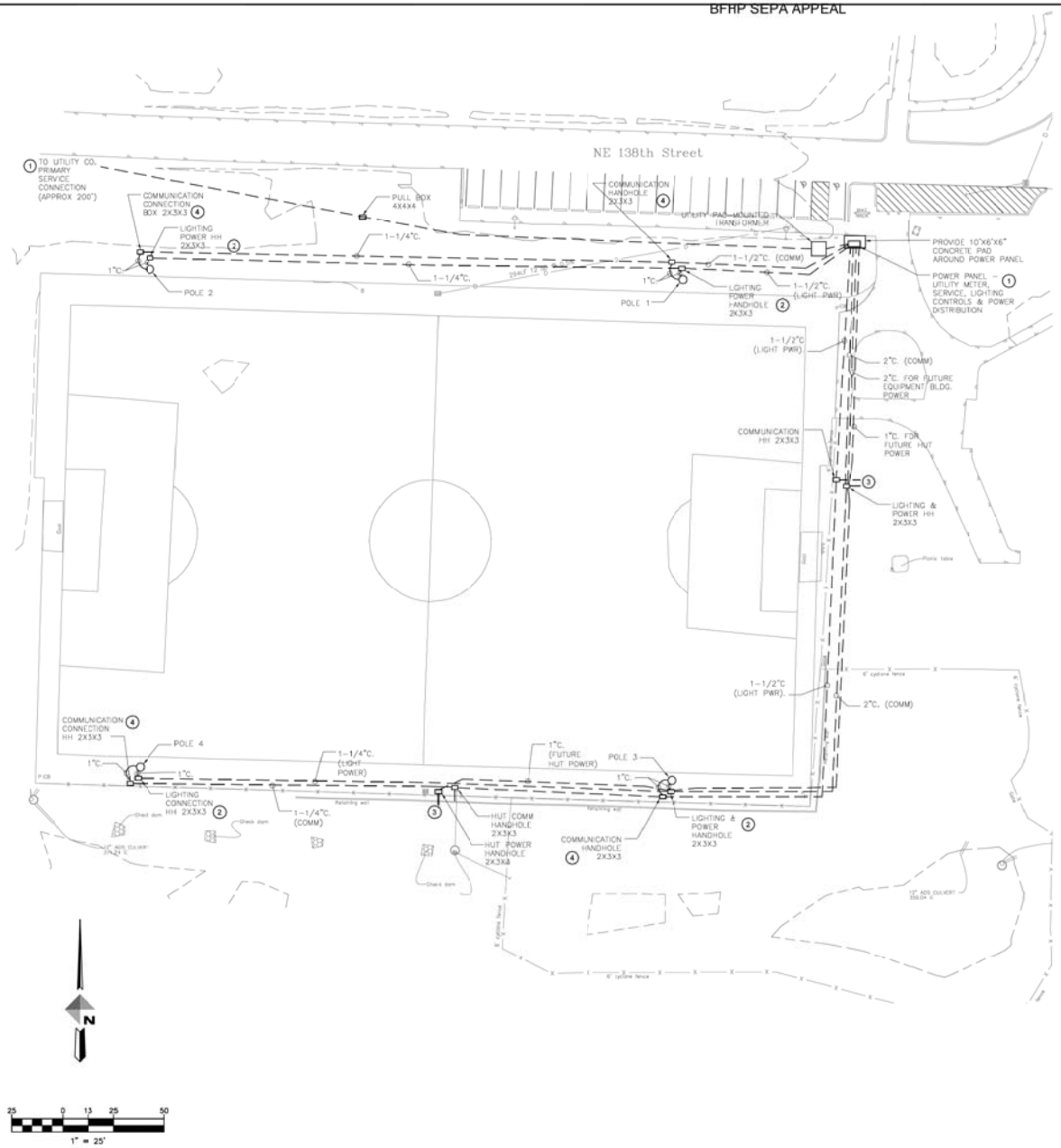
FOLLETT ENGINEERING
ELECTRICAL ENGINEERING & CONSULTING
REDMOND, WA
425-836-3333

DOWL HKM

PREPARED FOR
KIRKLAND YOUTH SPORTS DEV.
Kirkland, WA 98034
8251 NE Juanita Drive

ONELINE DIAGRAM AND DETAILS
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
KIRKLAND, (KING COUNTY), WA

SCALE:
F.B.:
W.O.: 13066.01
FILE NO.:
SHEET E1



GENERAL NOTES:

1. SEE DETAIL DRAWINGS FOR EQUIPMENT AND INSTRUMENT INSTALLATIONS. INSTALL EQUIPMENT PER THE REQUIREMENTS OF THE APPLICABLE DETAIL AND PER THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE WATER SEAL ON INSIDE OF RACEWAYS FOR ALL UNDERGROUND RACEWAY PENETRATIONS. PROVIDE WATER TIGHT SEAL AROUND OUTSIDE OF ALL CONDUIT PENETRATIONS.
3. PROVIDE GRC FOR ALL SWEEPS AND RISERS FOR TRANSITION FROM BELOW GRADE TO ABOVE GRADE RACEWAYS.

NOTES:

1. PRIMARY RACEWAY AND CABLE, TRANSFORMER, UTILITY METER BASE & SERVICE EQUIPMENT TO BE PROVIDED PER UTILITY REQUIREMENTS. VERIFY ALL UTILITY SERVICE EQUIPMENT AND INSTALLATIONS ARE ACCEPTABLE PER SERVING UTILITY. COORDINATION SHALL BE DONE WITH PSE, 425-956-7736. COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH PARKS DEPARTMENT PRIOR TO INSTALLATION.
2. PROVIDE HANDHOLE/CONNECTION BOX FOR ALL FIELD LIGHTING – ONE FOR POWER AND ONE FOR COMMUNICATIONS AT EACH POLE LOCATION. PROVIDE AS REQUIRED PER LIGHTING MANUFACTURER.
3. STUB UP CONDUIT OUT OF HANDHOLES – ONE FOR POWER AND ONE FOR COMMUNICATIONS FOR FUTURE EQUIPMENT BUILDING AND SCOREKEEPER'S HUT. VERIFY EXACT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
4. STUB UP AND CAP 1" COMMUNICATIONS CONDUIT, ONE AT EACH OF THE LIGHT POLES FOR FUTURE COMMUNICATION EQUIPMENT AND (CAMERAS).

REVISION	DATE	BY

SEP 2 2011 BY:
DESIGNED TMH
DRAWN TMH
CHECKED YMF
APPROVED

DOWL HKM
8620 154TH AVENUE NE, REDMOND, WA 98052
TEL (425) 883-9000 FAX (425) 883-9001

VINCENT M. FOLLETT, STATE OF WASHINGTON, 28947, REGISTERED PROFESSIONAL ENGINEER
9-10-11

PREPARED FOR
KIRKLAND YOUTH SPORTS DEV.
Kirkland, WA 98034
8251 NE Juanita Drive

ELECTRICAL SITE PLAN
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
KIRKLAND, (KING COUNTY), WA

FOLLETT ENGINEERING
ELECTRICAL ENGINEERING & CONSULTING
REDMOND, WA
425-836-3333

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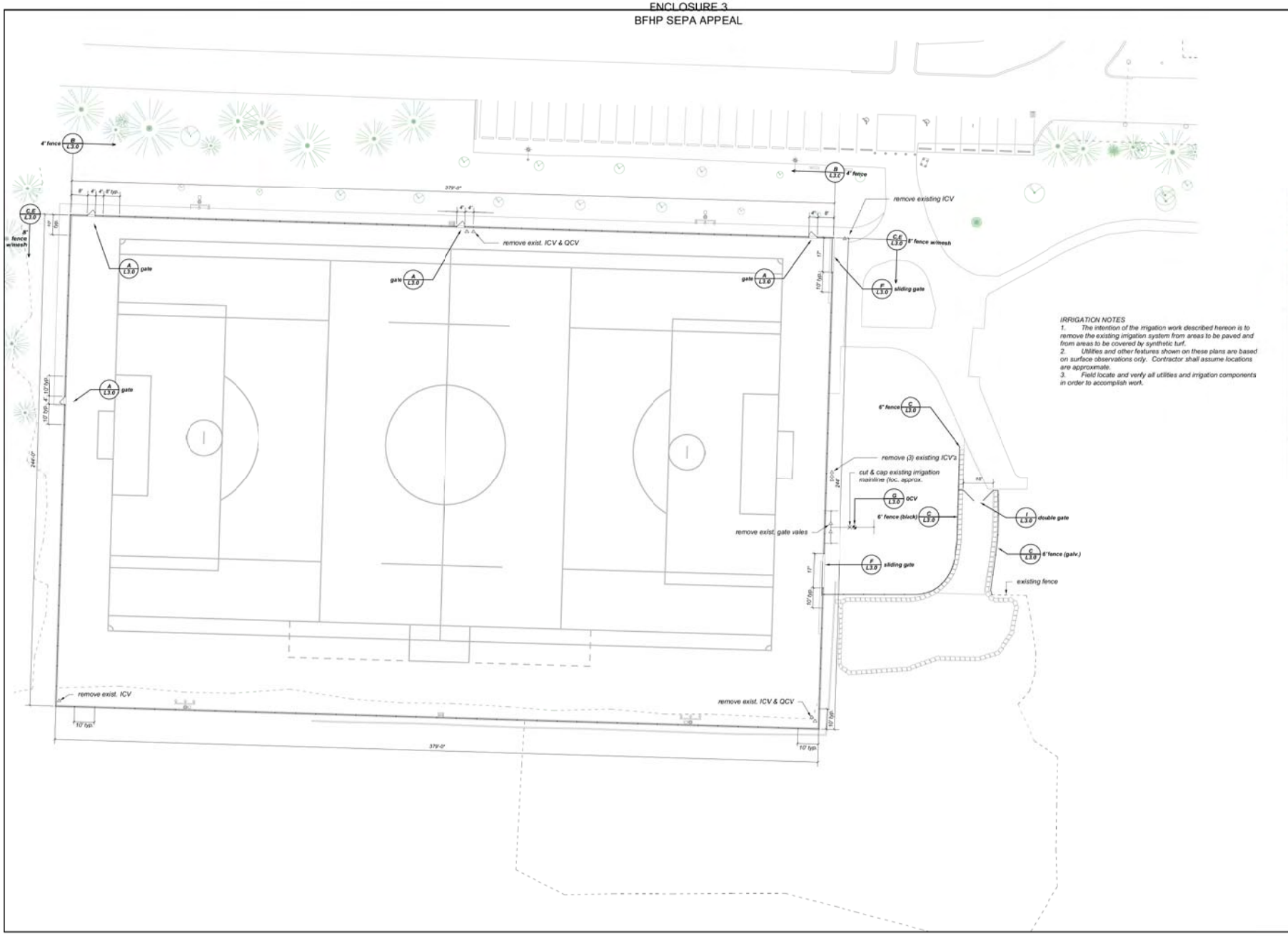

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Issaquah, WA 98027
phone • 425 222-7645
fax • 425 222-7642
e-mail • rvla@comcast.net

State Of Washington Licensed Landscape Architect

Richard B. Van De Mark
Certificate No. 481

PREPARED FOR
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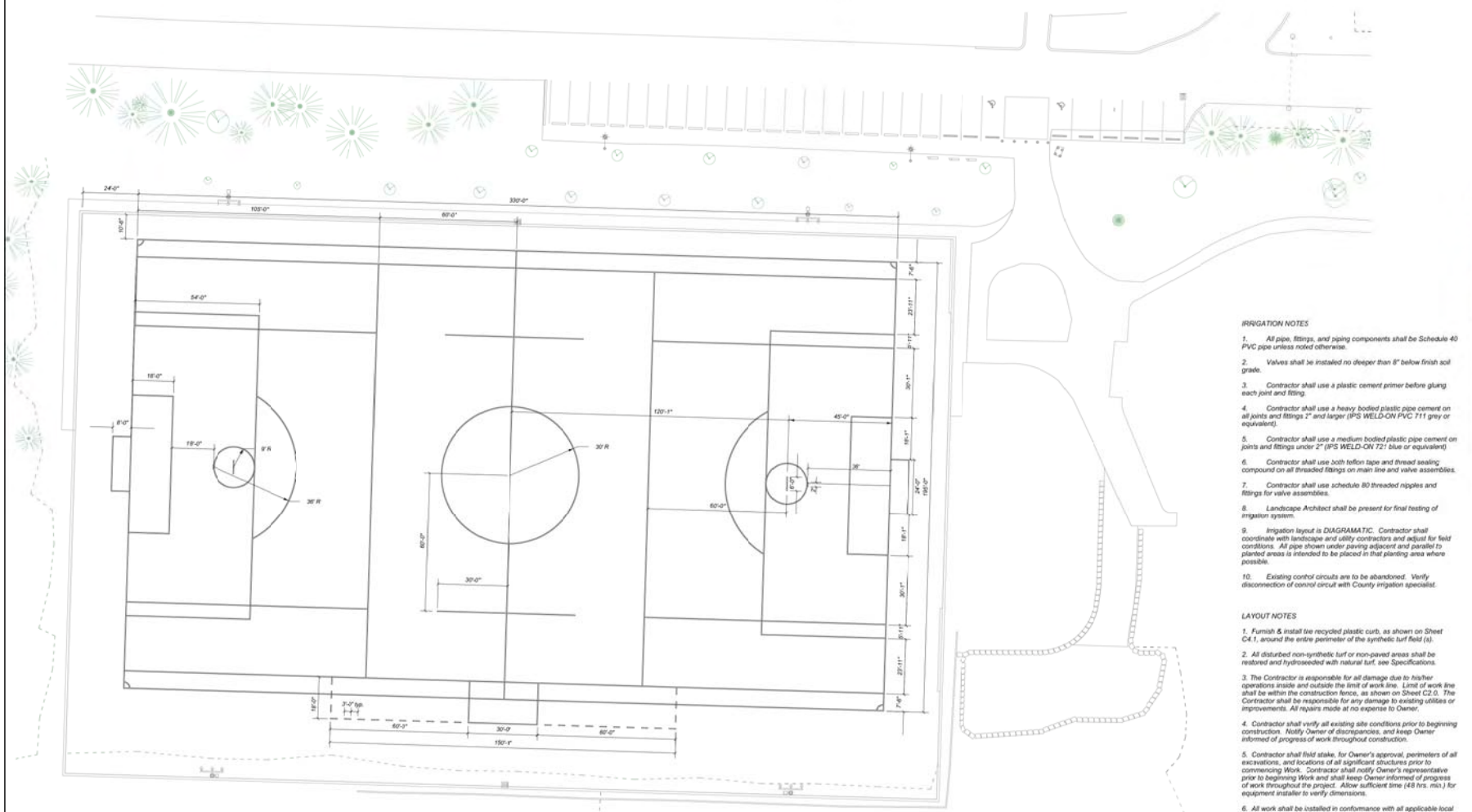
8251 NE Juanita Drive
Kirkland, WA 98034

FENCE LAYOUT
BIG FINN HILL PARK
8106 NE 138TH ST.
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
S 24 - T 26N - R 04E

SCALE: 1" = 20'-0"
F.B.:
W.O.:
FILE NO.:
SHEET
L1.0



Synthetic Turf Stitching Notes

1. All lacrosse striping shall be 4" wide and white in color. All soccer field striping shall be 4" wide and yellow in color.
2. Where striping overlaps color to be white.
3. Dimensions shown are to center of stripes unless otherwise shown.
4. A 4" green square shall be placed in the middle of the center line.

IRRIGATION NOTES

1. All pipe, fittings, and piping components shall be Schedule 40 PVC pipe unless noted otherwise.

2. Valves shall be installed no deeper than 8" below finish soil grade.

3. Contractor shall use a plastic cement primer before gluing each joint and fitting.

4. Contractor shall use a heavy bodied plastic pipe cement on all joints and fittings 2" and larger (IPS WELD-ON PVC 711 grey or equivalent).

5. Contractor shall use a medium bodied plastic pipe cement on joints and fittings under 2" (IPS WELD-ON 721 blue or equivalent)

6. Contractor shall use both teflon tape and thread sealing compound on all threaded fittings on main line and valve assemblies.

7. Contractor shall use schedule 80 threaded nipples and fittings for valve assemblies.

8. Landscape Architect shall be present for final testing of irrigation system.

9. Irrigation layout is DIAGRAMATIC. Contractor shall coordinate with landscape and utility contractors and adjust for field conditions. All pipe shown under paving adjacent and parallel to planted areas is intended to be placed in that planting area where possible.

10. Existing control circuits are to be abandoned. Verify disconnection of control circuit with County irrigation specialist.

LAYOUT NOTES

1. Furnish & install tile recycled plastic curb, as shown on Sheet C4.1, around the entire perimeter of the synthetic turf field (s).

2. All disturbed non-synthetic turf or non-paved areas shall be restored and hydroseeded with natural turf, see Specifications.

3. The Contractor is responsible for all damage due to his/her operations inside and outside the limit of work line. Limit of work line shall be within the construction fence, as shown on Sheet C2.0. The Contractor shall be responsible for any damage to existing utilities or improvements. All repairs made at no expense to Owner.

4. Contractor shall verify all existing site conditions prior to beginning construction. Notify Owner of discrepancies, and keep Owner informed of progress of work throughout construction.

5. Contractor shall field stake, for Owner's approval, perimeters of all excavations, and locations of all significant structures prior to commencing Work. Contractor shall notify Owner's representative prior to beginning Work and shall keep Owner informed of progress of work throughout the project. Allow sufficient time (48 hrs. min.) for equipment installer to verify dimensions.

6. All work shall be installed in conformance with all applicable local codes and ordinances by experienced workers and licensed contractors.

7. Any requirement in plans and/or notes shall be considered binding. In case of discrepancies, or items not understood by the Contractor, the Owners Representative shall be contacted immediately.

8. Site visits by Landscape Architect to inspect progress of work and its conformance with the plans shall be as directed by Owner's Representative.

9. Execute daily cleaning of site, throughout construction, to remove all waste material, rubbish, etc.

10. All written dimensions supersede scaled dimensions. All dimensions taken from property line, unless otherwise indicated.

11. Contractor shall coordinate work with all other applicable trades.

12. All lines are parallel or perpendicular to the lines from which they are measured, unless otherwise noted.

13. Plan is diagramatic. Contractor shall smoothly blend new work with existing grades, finishes and materials at limit of work line. Compliance with ADA requirements is necessary.

REVISION	DATE	BY
ISSUED FOR CITY PERMIT SUBMITTAL	8/17/11	CPL
	9/27/11	BT

		BY
DATE DESIGNED	5/20/2011	BT
DRAWN	5/13/2011	
CHECKED	5/20/2011	
APPROVED	9/27/11	RV

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Richard B. Van De Mark
Certificate No. 481

PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

FIELD LAYOUT & IRRIGATION
BIG FINN HILL PARK
8106 NE 138TH ST.
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
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SCALE: 1" = 20'-0"
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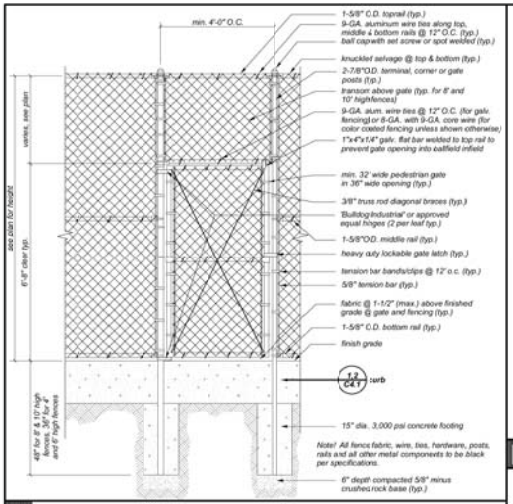
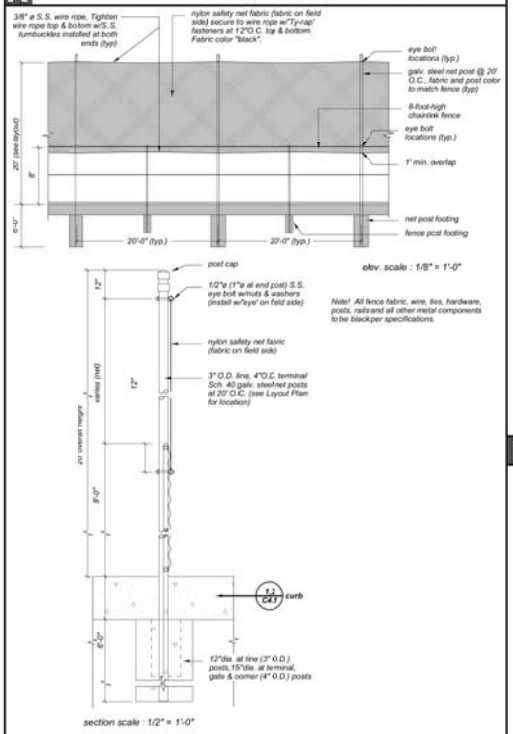
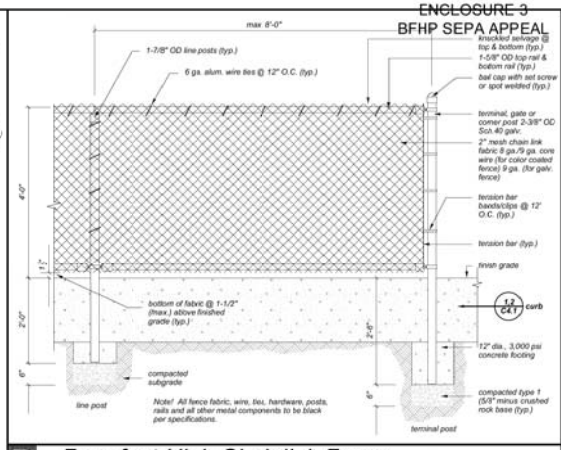


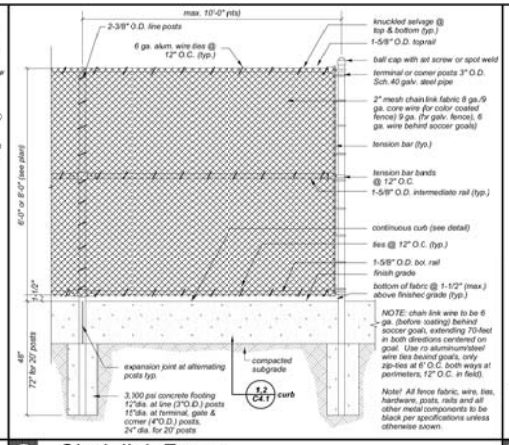
A Chainlink Pedestrian Gate scale: 1/2" = 1'-0"



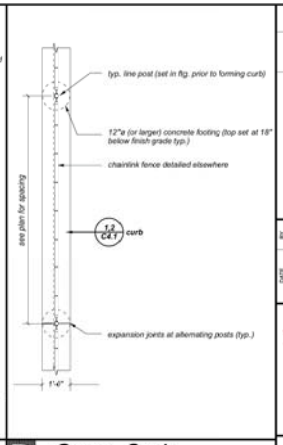
E Mesh Barrier on Fence scale: 1/8" = 1'-0"



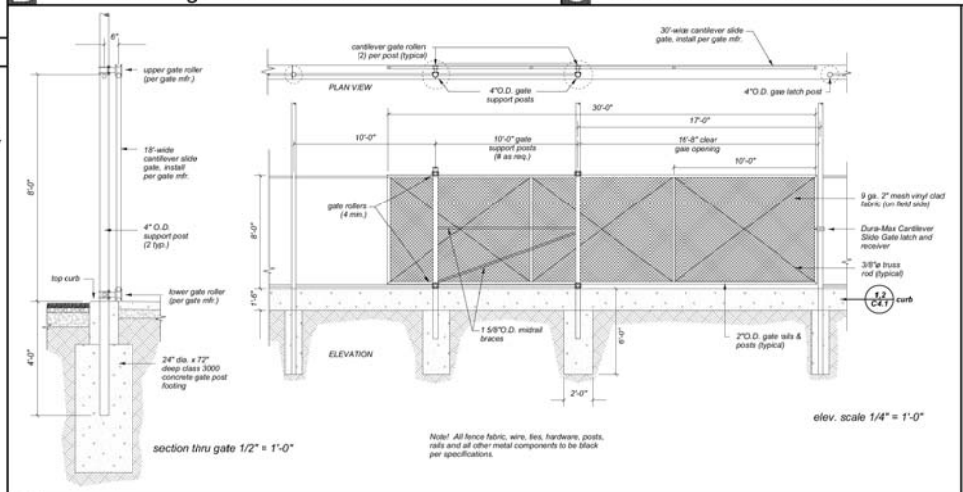
B Four-foot High Chainlink Fence scale. 3/4" = 1'-0"



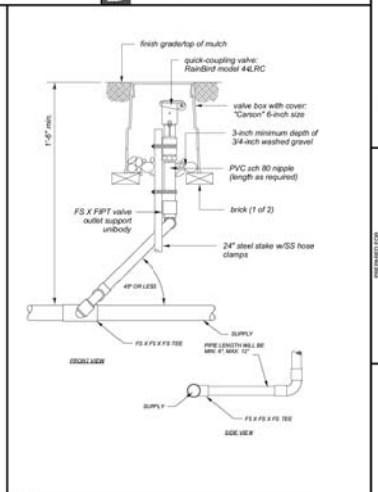
C Chainlink Fence scale : 1/2" = 1'-0"



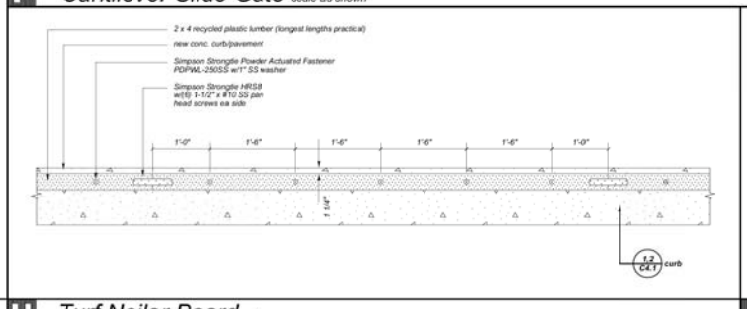
D Conc. Curb scale: 1" = 1'-0"



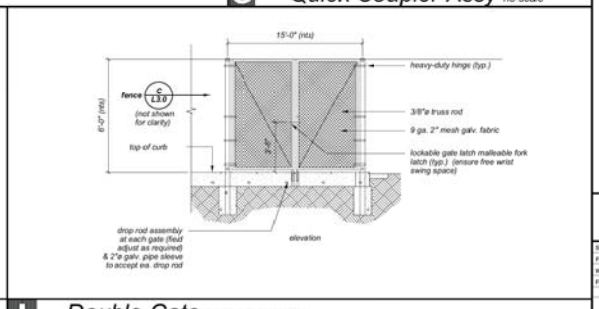
F Cantilever Slide Gate scale as shown



G Quick Coupler Assy no scale



H Turf Nailer Board scale : 1" = 1'-0"



I Double Gate scale : 1/4" = 1' - 0"

NO.	ISSUE	DATE	BY
	PRE-DESIGN	9/13/11	
	CUBE PERMIT SUBMITTAL	10/17/11	
	REVISION	DATE	BY

DATE DESIGNED | DRAWN | CHECKED | APPROVED 9/13/11 | BY

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FENCE DETAILS
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