

CROSS KIRKLAND CORRIDOR IMPROVEMENTS

SRMKII DESIGN DEVELOPMENT

COK FILE # _____

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1 VICINITY MAP
NTS

ONE-CALL NUMBER: 1-800-425-5555

SURVEYOR: D.R. STRONG CONSULTING ENGINEERS, 425-827-3063

OWNER/AGENT: SRMK II LLC

APPLICANT: SRM CONSTRUCTION LLC

COK PUBLIC WORKS INSPECTION: 425-587-3805

LEGAL DESCRIPTION

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CITY OF KIRKLAND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION WHERE APPLICABLE AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. A COPY OF THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. KEEP ALL WALKWAYS CLEAR AND FREE OF DEBRIS. PAVED SURFACES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT NO COST TO THE OWNER.
4. STORAGE OF MATERIALS AND EQUIPMENT WILL BE ALLOWED ONLY IN AREAS DESIGNATED FOR CONSTRUCTION OR STORAGE.
5. ALL IMPROVEMENTS SCHEDULED TO REMAIN THAT ARE DAMAGED DURING THE COURSE OF EXECUTION OF THE CONTRACT WORK SHALL BE REPLACED BY THE CONTRACTOR TO THE ENGINEERS SPECIFICATIONS AT NO ADDED COST TO THE OWNER. THESE IMPROVEMENTS MAY INCLUDE, BUT ARE NOT LIMITED TO, ASPHALT AND CONCRETE PAVING, BENCHES, RAILINGS, IRRIGATION, VEGETATION, AND VARIOUS OTHER UTILITIES.
6. DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN ON THE DRAWINGS. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ENGINEER IMMEDIATELY FOR RESOLUTION.

ABBREVIATIONS

AL	ALIGN	HT	HEIGHT
APPROX	APPROXIMATE	MAX	MAXIMUM
BLW	BELOW	MIN	MINIMUM
BS	BOTTOM OF STAIR	MTD	MOUNTED
BW	BOTTOM OF WALL	N/E	NORTHING & EASTING
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CF	CUBIC FEET	NTS	NOT TO SCALE
CL	CENTER LINE	OF CI	OWNER FURNISHED CONTRACTOR INSTALLED
CIP	CAST IN PLACE	PA	PLANTING AREA
CONC	CONCRETE	PCST	PRECAST
CONT	CONTINUOUS	PERIM	PERIMETER
CTR	CENTER	POT	POINT OF TANGENT
DET	DETAIL	R	RADIUS
DIAG	DIAGONAL	REF	REFERENCE
DIA	DIAMETER	REQD	REQUIRED
DIM	DIMENSION	RET	RETAINING
DWG	DRAWING	RM	ROOM
EJ	EXPANSION JOINT	SF	SQUARE FEET
EL	ELEVATION	SS	STAINLESS STEEL
ELEC	ELECTRICAL	STL	STEEL
EQ	EQUAL	TEL	TELEPHONE
EQPT	EQUIPMENT	TS	TOP OF STAIR
EXP	EXPOSED	TW	TOP OF WALL
EX	EXISTING	TYP	TYPICAL
FS	FINISHED SURFACE	W/	WITH
GA	GAUGE	W/O	WITHOUT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIB		
HH	HAND HOLE		

SYMBOLS

1	TITLE SCALE	DRAWING TITLE	2	KEY NOTE	PROPOSED CONTOUR
4	L3.1	DETAIL NUMBER SHEET NUMBER	4	MATERIAL INDICATION	EXISTING CONTOUR
4	L1.3	SECTION	3	REVISION	324.05 PROPOSED SPOT ELEVATION
---		RIGHT-OF-WAY LINE	AL	FLUSH/ALIGN	(324.05) EXISTING SPOT ELEVATION
---		LIMIT OF WORK LINE			

DRAWING INDEX

SHT#	DRAWING TITLE
G1.0	TITLE SHEET
G1.1	EXISTING CONDITIONS PLAN (NOT USED)
L1.0	SITE PLAN
CK1.00	T.E.S.C. PLAN
CK1.01	T.E.S.C. PLAN
CK1.02	T.E.S.C. DETAILS
CK2.00	UTILITY PLAN
CK2.01	UTILITY PLAN
CK2.02	UTILITY DETAILS
CK2.03	CITY OF KIRKLAND DETAILS
CK2.04	CITY OF KIRKLAND DETAILS
CK2.05	CITY OF KIRKLAND DETAILS
CK2.06	CITY OF KIRKLAND DETAILS
L1.1	LANDSCAPE MATERIALS PLAN NORTH
L1.1	LANDSCAPE MATERIALS PLAN SOUTH
L1.3	LANDSCAPE LAYOUT PLAN NORTH (NOT USED)
L1.4	LANDSCAPE LAYOUT PLAN SOUTH (NOT USED)
L2.1	LANDSCAPE GRADING PLAN NORTH
L2.2	LANDSCAPE GRADING PLAN SOUTH
L3.1	LANDSCAPE DETAILS (NOT USED)
L3.2	LANDSCAPE DETAILS (NOT USED)
L3.3	LANDSCAPE DETAILS (NOT USED)
L4.1	IRRIGATION PLAN NORTH (NOT USED)
L4.2	IRRIGATION PLAN SOUTH (NOT USED)
L4.3	IRRIGATION DETAILS (NOT USED)
L5.1	PLANTING PLAN NORTH (NOT USED)
L5.2	PLANTING PLAN SOUTH (NOT USED)
L5.3	PLANTING DETAILS (NOT USED)



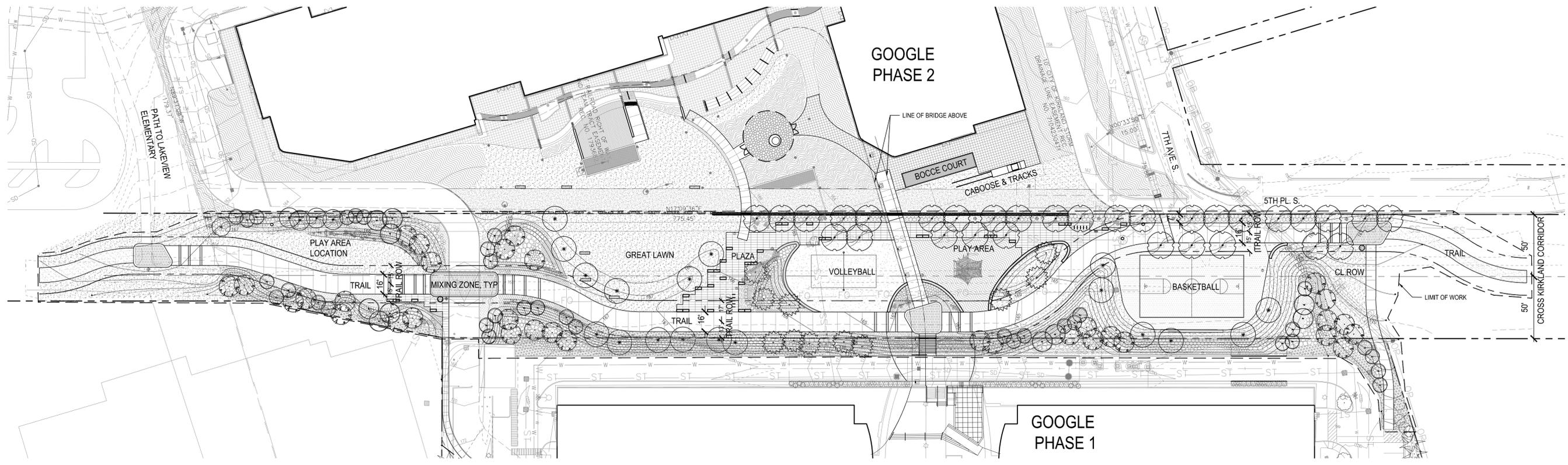
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EXPIRES ON 12/10/2015

LSM GRADING
PERMIT SUBMITTAL
07-07-14

TITLE SHEET
SRMKII
CROSS KIRKLAND CORRIDOR IMPROVEMENTS

G1.0
73-12144-00
06.21.2014

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Architecture Engineering Planning Interiors
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1 SITE PLAN
1" = 40'

NOTE:

THIS PLAN CONFORMS TO THE CROSS-KIRKLAND CORRIDOR MASTER PLAN (JUNE 4, 2014). KEY POINTS:

CHARACTER:

- THIS PROJECT IS LOCATED IN THE "CONVERGENCE ZONE" WITH AN OPPORTUNITY FOR A BROAD COLLECTION OF ELEMENTS, COMMERCE, SERVICES, AND BUSINESSES TO BRING DIVERSITY AND VITALITY.

ACCESS:

- STREET ENDS ARE TO BE FORMALIZED AS KEY CONNECTIONS TO THE CKC AND WHERE POSSIBLE BE ADA ACCESSIBLE.
- ACCESS TO THE CORRIDOR SHOULD BE PROVIDED ON PUBLIC AND LARGER PRIVATE ACCESS POINTS.

CORRIDOR ELEMENTS:

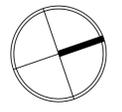
- SHARED USE TRAIL SHOULD MEET THE GUIDELINES OF A PATH SHARED BY BICYCLES AND PEDESTRIANS.
- SHARED USE TRAIL TO HAVE A MINIMUM WIDTH OF 12' WITH 2' CLEARANCE ON EACH SIDE. PORTIONS OF THE TRAIL MAY BE NARROWER FOR LIMITED DISTANCES TO ACCOMMODATE PINCH POINTS.
- PRIMARY TRAIL TO BE CONSTRUCTED OF ASPHALT, CONCRETE OR CONCRETE UNIT PAVERS
- PRIMARY TRAIL TO CONNECT TO INTERIM 10' WIDE GRAVEL PATH

CROSSINGS:

- ROAD CROSSINGS ARE DESIGNED TO BE SAFE AND WELCOMING TO USERS, WITH OPPORTUNITIES FOR LANDMARK ELEMENTS THAT CAN INCLUDE ART, GARDENS AND RAINWATER FEATURES.
- DRIVEWAYS ACROSS THE CORRIDOR GIVE RIGHT-OF-WAY PRIORITY TO THE TRAIL CORRIDOR.
- PROVIDE A 20' MINIMUM CLEARANCE AT STREET CROSSINGS FOR SIGHT DISTANCE, AND PROVIDE A THRESHOLD OF SPECIALTY PAVING (TEXTURED CONCRETE OR PAVERS) AS A "MIXING ZONE".
- "MIXING ZONES" TO BE PROVIDED AT AREAS OF HIGH ACTIVITY ALONG THE TRAIL CORRIDOR TO INTUITIVELY SLOW AND ALERT TRAIL USERS TO "HEADS UP" MOMENTS.

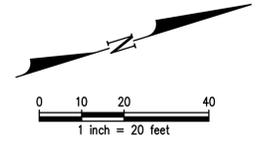
PLANTING

- THE PLANT PALETTE WILL LARGELY CONSIST OF NATIVE SPECIES, HOWEVER NON-NATIVE SPECIES MAY BE USED IF DEEMED APPROPRIATE TO THE SITE CONDITIONS AND DESIGN INTENT.



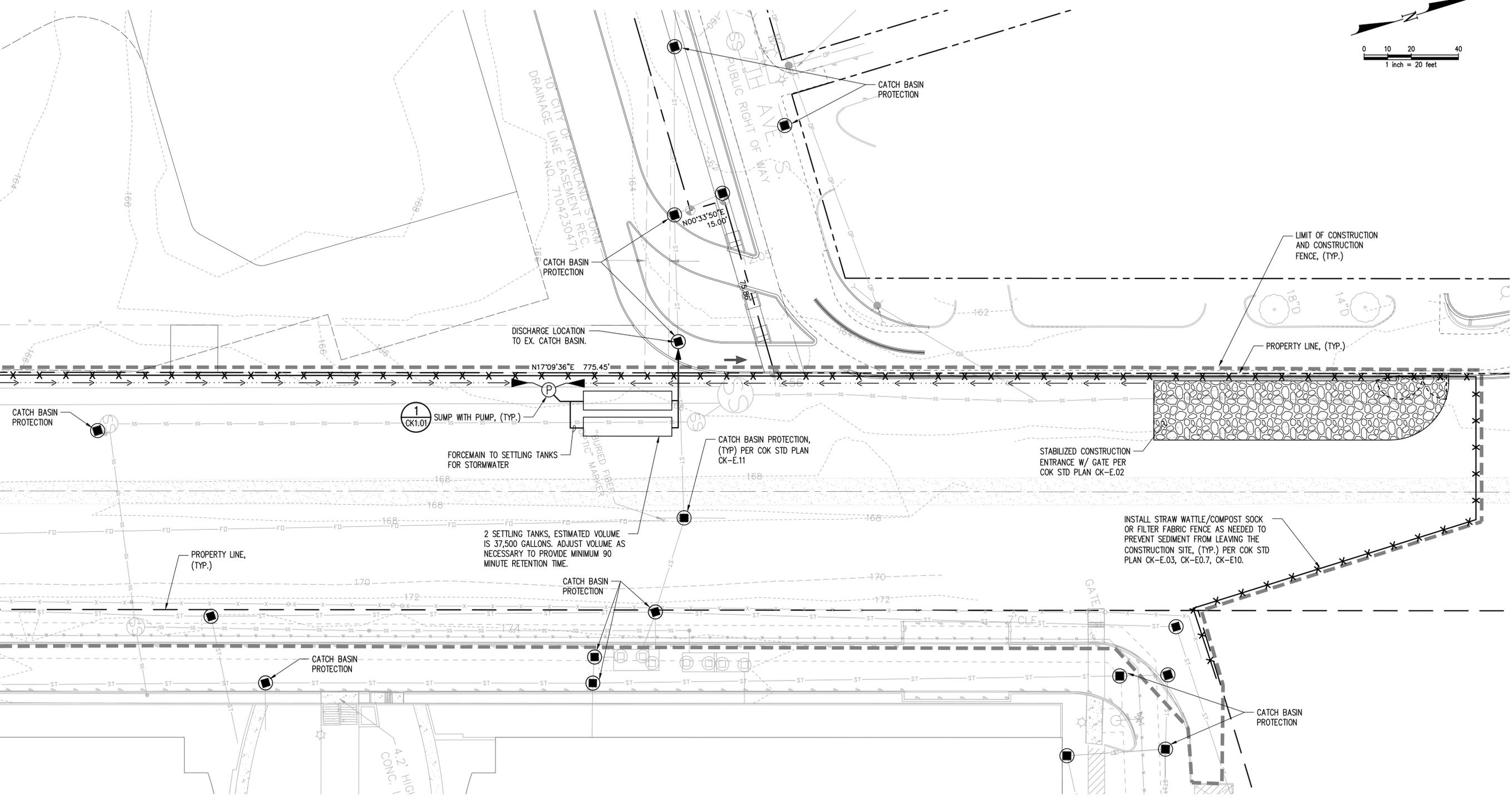
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STATE OF WASHINGTON
LICENSED LANDSCAPE ARCHITECT
KAREN S. KEST
LICENSE NO. 850
EXPIRES ON 12/10/2015



MATCHLINE: SEE SHEET CK1.01

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- NOTES:**
1. PROVIDE INLET PROTECTION TO ALL DOWNSTREAM INLETS AND CATCH BASINS WITHIN 500 FEET OF THE PROPERTY.
 2. SEE SHEET C2.01 FOR TEMPORARY EROSION AND SEDIMENT CONTROL NOTES AND CONSTRUCTION SEQUENCE.
 3. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF PERIMETER CONTROLS SUCH AS FILTER FABRIC FENCE, COMPOST SOCKS, STRAW WATTLES, INTERCEPTOR DITCHES OR BERMS.

- LEGEND:**
- LIMIT OF CONSTRUCTION/ CONSTRUCTION FENCE
 - - - - - PROPERTY LINE
 - >->->- INTERCEPTOR DITCH
 - x-x-x- STRAW WATTLE/COMPOST SOCK OR FILTER FABRIC FENCE
 - CATCH BASIN PROTECTION

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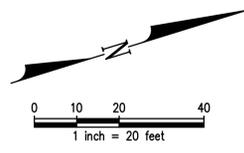
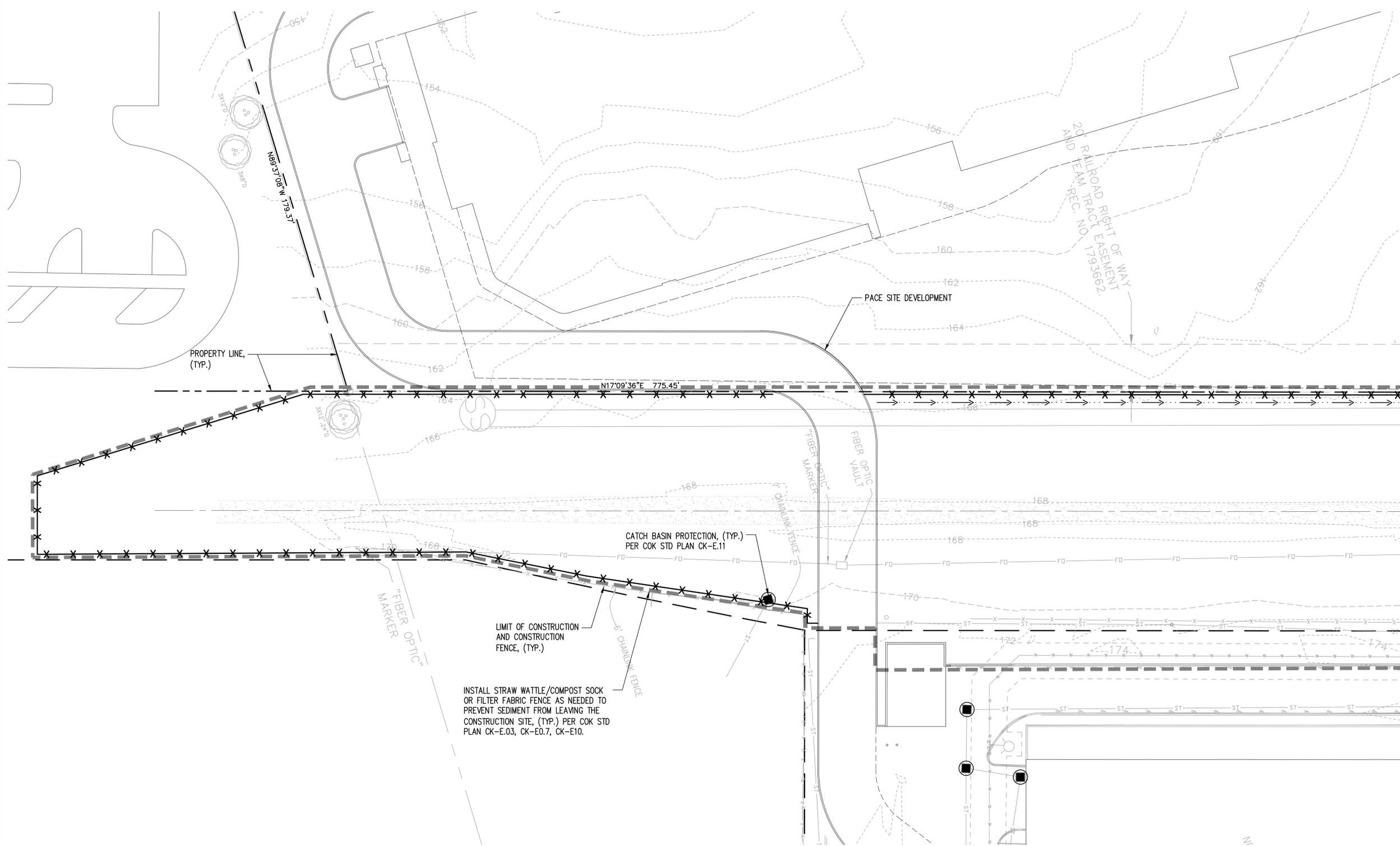
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T.E.S.C. PLAN
 SRMKII
 CROSS KIRKLAND CORRIDOR IMPROVEMENTS

CK1.00
 73-12144-00
 04.16.2014

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MATCHLINE: SEE SHEET CK1.00

NOTES:

1. PROVIDE INLET PROTECTION TO ALL DOWNSTREAM INLETS AND CATCH BASINS WITHIN 500 FEET OF THE PROPERTY.
2. SEE SHEET C2.01 FOR TEMPORARY EROSION AND SEDIMENT CONTROL NOTES AND CONSTRUCTION SEQUENCE.
3. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF PERIMETER CONTROLS SUCH AS FILTER FABRIC FENCE, COMPOST SOCKS, STRAW WATTLES, INTERCEPTOR DITCHES OR BERMS.

LEGEND:

- LIMIT OF CONSTRUCTION/ CONSTRUCTION FENCE
- - - - - PROPERTY LINE
- >->->- INTERCEPTOR DITCH (2/CK1.02)
- x-x-x-x-x STRAW WATTLE/COMPOST SOCK OR FILTER FABRIC FENCE
- CATCH BASIN PROTECTION

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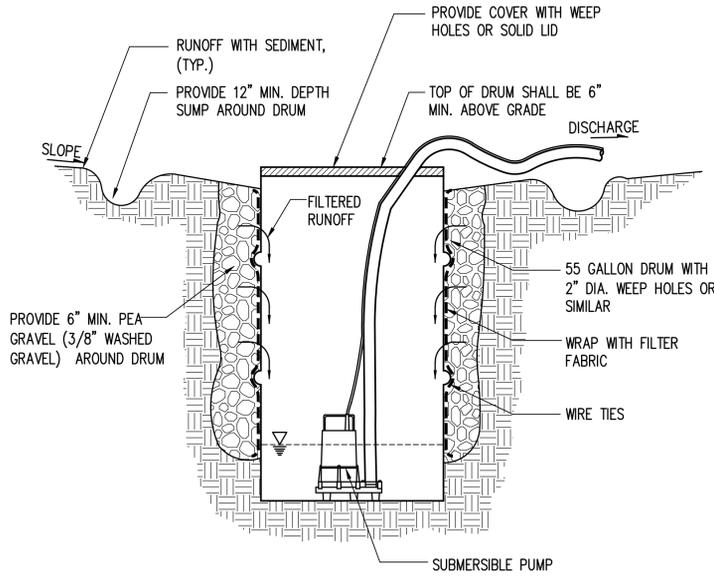
T.E.S.C. PLAN
SRMKII
CROSS KIRKLAND CORRIDOR IMPROVEMENTS

CK1.01
73-12144-00
04.15.2014

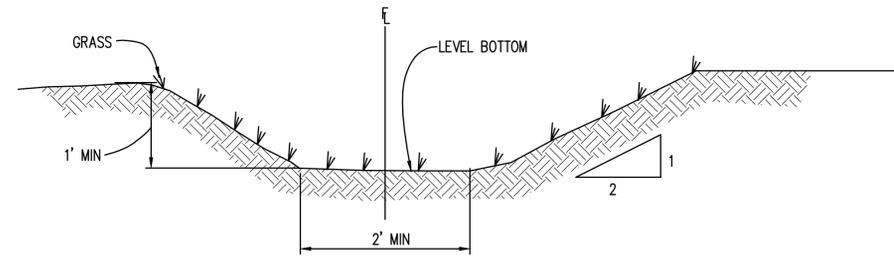
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TEMPORARY SUMP WITH PUMP DETAIL 1
NTS CK1.00



INTERCEPTOR DITCH 2
NTS CK1.00, CK1.01

EROSION/SEDIMENT CONTROL NOTES AND CONSTRUCTION SEQUENCE

- THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
 - CONDUCT PRE-CONSTRUCTION MEETING.
 - FLAG OR FENCE CLEARING LIMITS.
 - POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.
 - INSTALL CATCH BASIN PROTECTION IF REQUIRED.
 - GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
 - INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
 - CONSTRUCT SETTLING TANKS, SEDIMENT PONDS AND TRAPS.
 - GRADE AND STABILIZE CONSTRUCTION ROADS.
 - CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKS, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
 - MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
 - RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
 - COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
 - STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
 - SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
 - UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
- APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
- ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES: MAY 1 TO SEPTEMBER 30 - SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING. OCTOBER 1 TO APRIL 30 - SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
- AT NO TIME SHALL MORE THAN 1' 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.
- STABILIZED CONSTRUCTION ENTRANCES 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.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE). 2. EROSION - PLAN NOTES (CONTINUED)
- WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
- ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
- THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
- A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.
- CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
- OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
- ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
- THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
- ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING.
- IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
- ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
- DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
- PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
- ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.

T.E.S.C. DETAILS
SRMKII
CROSS KIRKLAND CORRIDOR IMPROVEMENTS

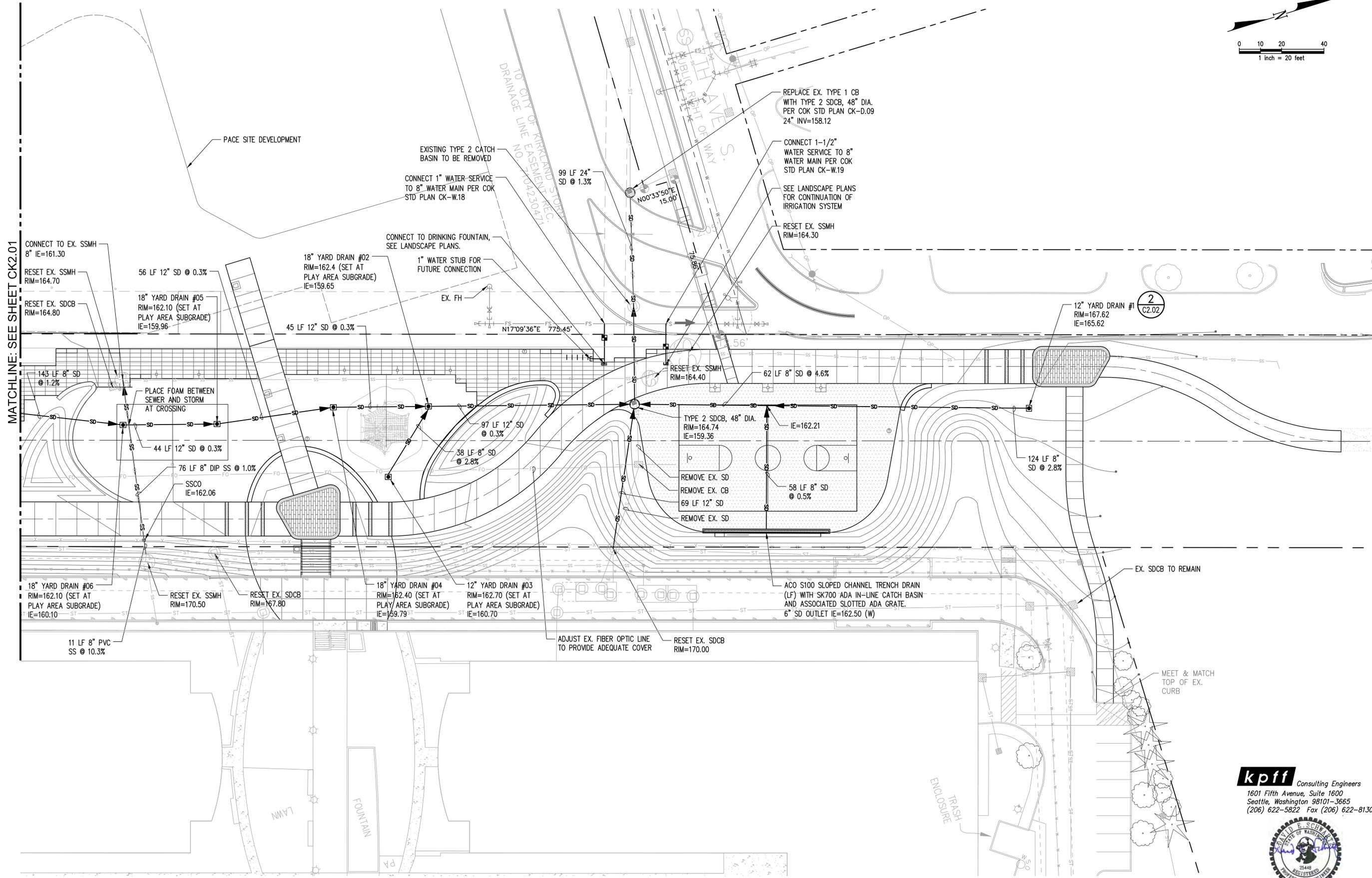
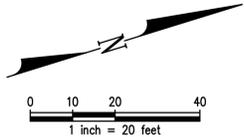
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MATCHLINE: SEE SHEET CK2.01

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UTILITY PLAN
SRMKII
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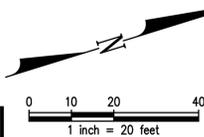
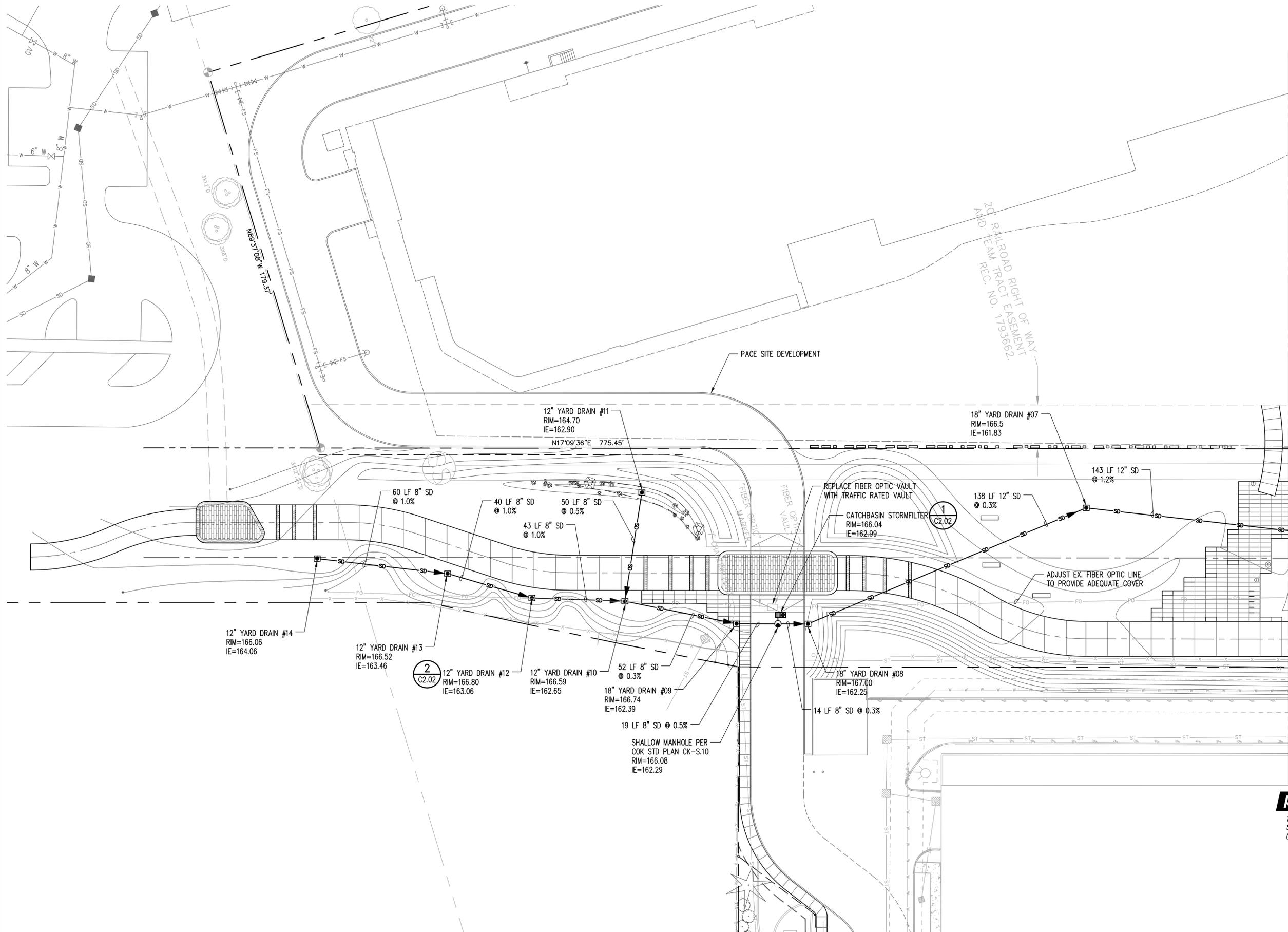
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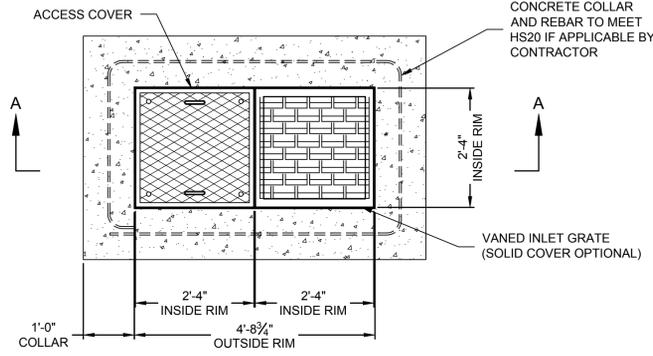
STORMFILTER CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL. PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

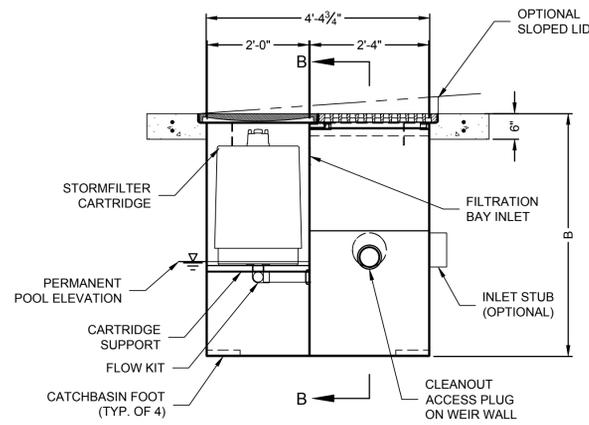
CARTRIDGE SELECTION	27"		18"		18" DEEP	
CARTRIDGE HEIGHT	3.05'		2.3'		3.3'	
MINIMUM HYDRAULIC DROP (H)	2 gpm/ft ²		2 gpm/ft ²		2 gpm/ft ²	
SPECIFIC FLOW RATE (gpm/ft ²)	22.5	11.25	15	7.5	15	7.5
CARTRIDGE FLOW RATE (gpm)	1.0	11.25	1.0	7.5	1.8	7.5
PEAK HYDRAULIC CAPACITY	1'-0"		1'-0"		2'-0"	
INLET PERMANENT POOL LEVEL (A)	4'-9"		3'-9"		4'-9"	
OVERALL STRUCTURE HEIGHT (B)						

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
 - STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
 - STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
 - STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH QUANTITY (2) #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
 - FILTER CARTRIDGES SHALL BE MEDIA FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS.
 - SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

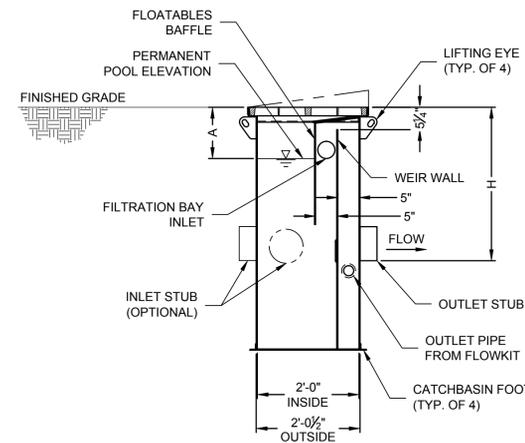
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



PLAN VIEW

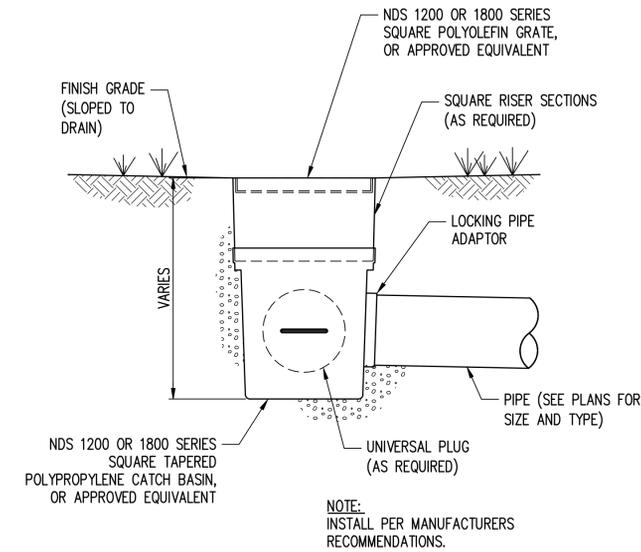


SECTION A-A



SECTION B-B

STRUCTURE ID	WA1
WATER QUALITY FLOW RATE (cfs)	0.02
PEAK FLOW RATE (<1 cfs)	0.12
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE FLOW RATE (gpm)	11.25
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)	ZPG
RIM ELEVATION	166.04
PIPE DATA:	I.E. DIAMETER
INLET STUB	N/A
OUTLET STUB	162.99 12"
CONFIGURATION	OUTLET
	INLET
	INLET
	INLET
SLOPED LID	NO
SOLID COVER	YES
NOTES/SPECIAL REQUIREMENTS:	



NDS YARD DRAIN DETAIL

CONTECH CATCH BASIN STORM FILTER DETAIL
NTS

1
C2.01

2
CK2.00, CK2.01

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UTILITY DETAILS
SRMKII
CROSS KIRKLAND CORRIDOR IMPROVEMENTS

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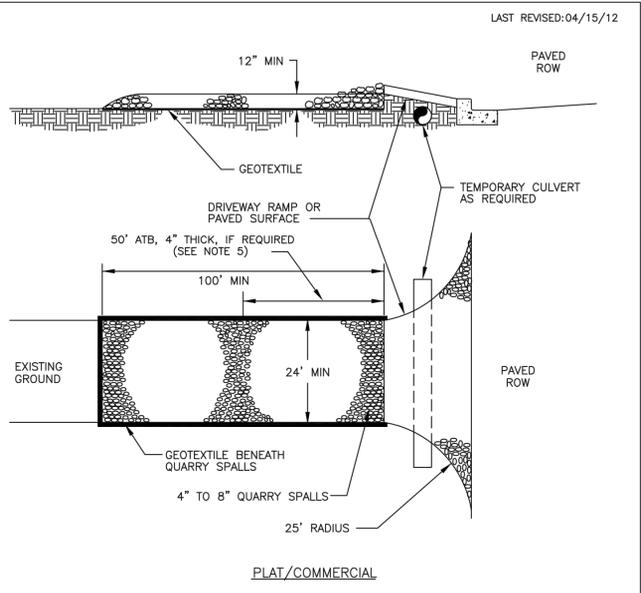
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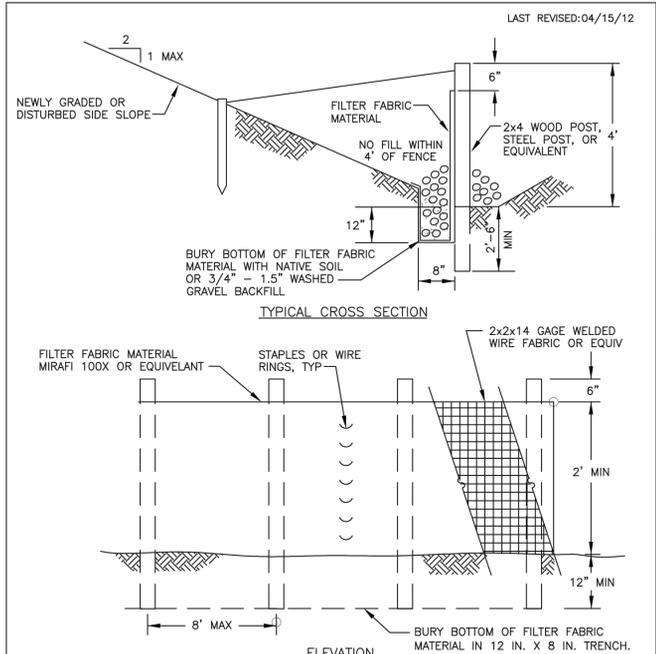
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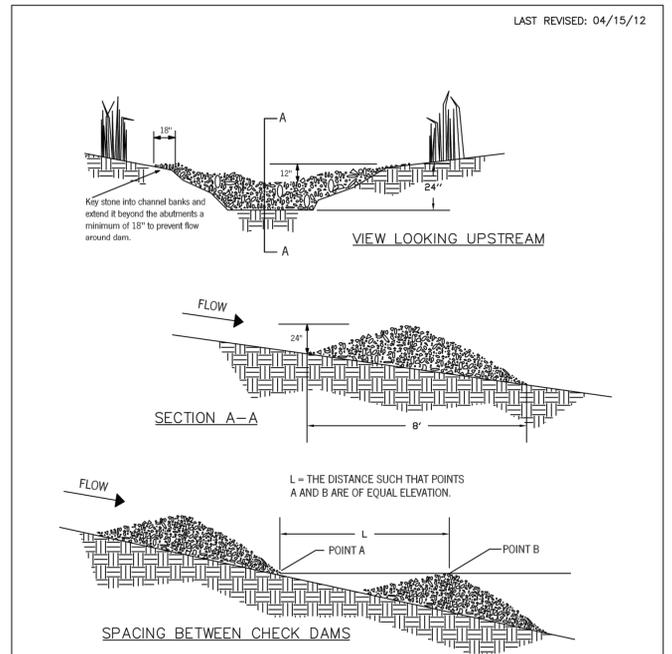
- NOTES
- PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE CITY CLEARING AND GRADING INSPECTOR.
 - PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
 - PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE AND/OR PER THE DIRECTION OF THE CITY CLEARING AND GRADING INSPECTOR.
 - CONTRACTOR RESPONSIBLE FOR CURB & GUTTER CONDITION.
 - ATB MAY BE REQUIRED PER PW INSPECTOR.

CITY OF KIRKLAND
 PLAN NO. CK-E.02
 TEMPORARY
 PLAT/COMMERCIAL
 CONST. ENTRANCE



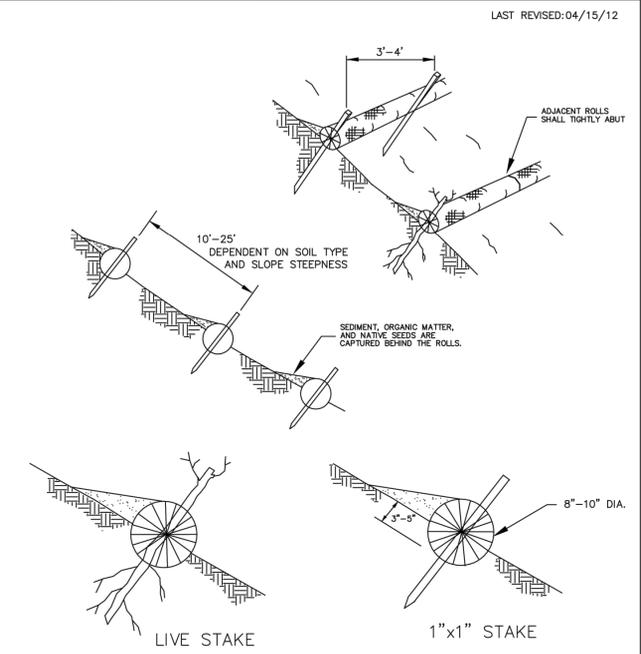
- NOTES
- PREFAB FENCE ALLOWED IF REINFORCED AND APPROVED BY CITY INSPECTOR.
 - FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2:1.
 - JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
 - USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO FENCE.
 - REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.
 - LOCATION OF FENCING SHALL BE AS SHOWN ON APPROVED PLANS OR AS DIRECTED BY THE CITY.
 - MAXIMUM 100' SHEET OR OVERLAND FLOW PATH LENGTH TO SILT FENCE.
 - DO NOT DIRECT FLOWS GREATER THAN 0.5 CFS TO FENCE.
 - SILT FENCE SHOULD NOT BE INSTALLED IN STREAMS OR V-SHAPED DITCHES.

CITY OF KIRKLAND
 PLAN NO. CK-E.03
 SILT FENCE



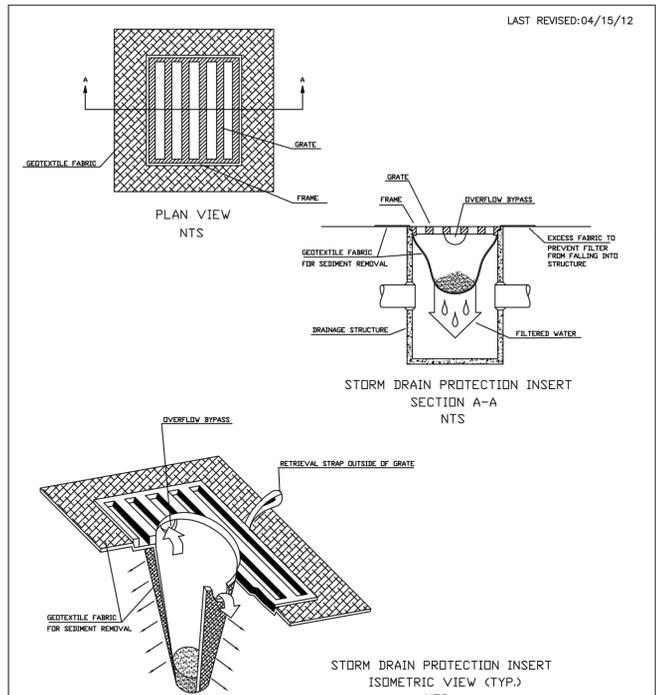
- NOTES
- CHECK DAMS TO BE CONSTRUCTED OF ROCK, PEA-GRAVEL FILLED BAGS, SAND BAGS, OR EQUIVALENT APPROVED BY PUBLIC WORKS.
 - PLACE CHECK DAMS PERPENDICULAR TO FLOW OF WATER.
 - SIDE SLOPES ARE 2:1 (H:V) OR FLATTER.
 - USE FILTER FABRIC FOUNDATION UNDER CHECK DAM.
 - ROCK CHECK DAMS SHALL BE CONSTRUCTED OF APPROPRIATELY SIZED ROCK, AND PLACED BY HAND OR MECHANICAL MEANS (NO DUMPING OF ROCK TO FORM DAM).
 - INSPECT DAM AFTER EACH SIGNIFICANT STORM; MAINTAIN AND REPAIR PROMPTLY.

CITY OF KIRKLAND
 PLAN NO. CK-E.07
 CHECK DAM



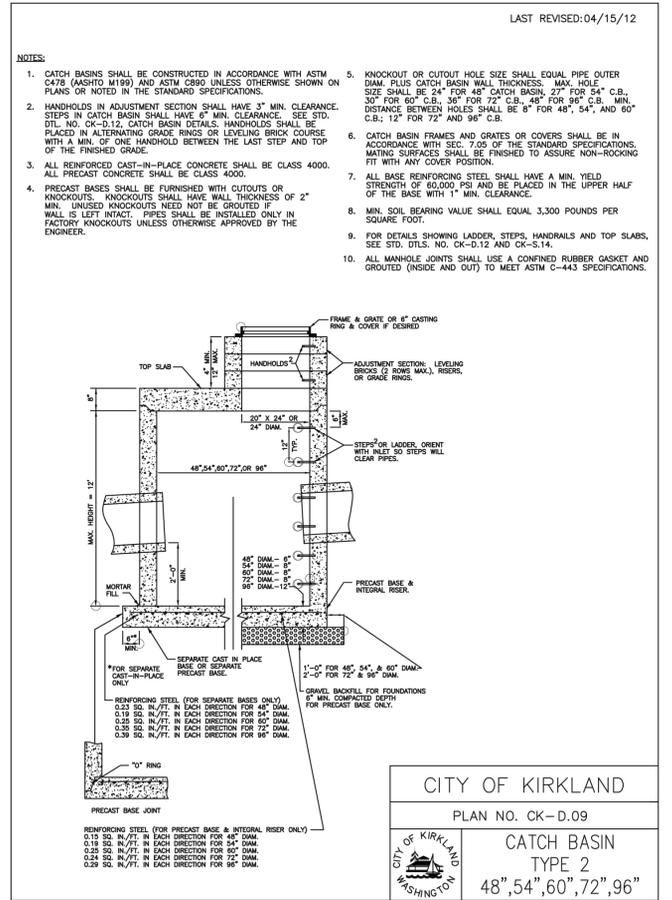
- NOTES
- STRAW ROLLS SHALL BE PLACED ALONG SLOPE CONTOURS.
 - STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3\"/>
 - DRIVE STAKE THROUGH MIDDLE OF WATTLE, LEAVING 2\"/>

CITY OF KIRKLAND
 PLAN NO. CK-E.10
 STRAW
 WATTLES



- NOTES
- REINFORCING STEEL (FOR PRECAST BASE & INTERNAL RISER ONLY):
 0.15 SQ. IN./FT. IN EACH DIRECTION FOR 48\"/>

CITY OF KIRKLAND
 PLAN NO. CK-E.11
 STORM DRAIN
 PROTECTION INSERT



- NOTES
- REINFORCING STEEL (FOR PRECAST BASE & INTERNAL RISER ONLY):
 0.15 SQ. IN./FT. IN EACH DIRECTION FOR 48\"/>

CITY OF KIRKLAND
 PLAN NO. CK-D.09
 CATCH BASIN
 TYPE 2
 48\",54\",60\",72\",96\"

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LAST REVISED: 1/31/12

PAVED AREAS

INSTALL PRECAST GRADE RINGS, RISERS OR LEVELING BRICKS AS NECESSARY TO MATCH FINAL GRADE.

FRAME & COVER/GRATE

LIMIT OF EXCAVATION (TYP.)

MINIMUM 2" CLASS B W/SEALER @ RIM & SAND SEE: CK-R.12

EXISTING PAVEMENT

CONCRETE OR NON-SHRINK GROUT

PLACE & COMPACT CRUSHED SURFACING TOP COURSE

EXIST. MANHOLE OR CATCH BASIN

UNPAVED AREAS

LIMITS OF EXCAVATION (TYP.)

3000 P.S.I. CEMENT CONCRETE PERIMETER SEAL

GROUT BETWEEN ALL JOINTS. (NO JETSET GROUT)

INSTALL PRECAST GRADE RINGS, RISERS OR LEVELING BRICKS AS NECESSARY TO FINAL GRADE

EXISTING MANHOLE OR CATCH BASIN

CONCRETE PERIMETER SEAL SHALL EXTEND 2" BELOW GRADE RINGS OR BRICKS

NOTES:

- WHERE DEPTH OF NECK EXCEEDS 18 INCHES, ADJUST MANHOLE/CATCH BASIN TO GRADE BY INSERTING NEW BARREL SECTION BETWEEN THE CONE/SLAB AND EXISTING BARREL.
- GRADE RINGS, RISERS, BRICK AND FRAME SHALL BE SET IN 3/4" NON-SHRINK GROUT. GROUT BETWEEN ALL JOINTS. GROUT BETWEEN ALL JOINTS. ALL SURFACES MUST BE CLEAN OF DEBRIS AND DIRT, AND WETTED PRIOR TO GROUTING. GROUT SMOOTH INSIDE AND OUTSIDE SURFACES.
- STEPS OR HAND HOLDS SHALL BE ADDED AS NEEDED.
- PRECAST GRADE RINGS AND RISERS MUST BE CAST WITH GROOVE TO ALLOW FIELD INSTALLATION OF SAFETY STEP.
- REPLACE EXISTING FRAME AND COVER/GRATE IF NON-STANDARD.
- IF REQUIRED: LOCKING MH FRAMES SHALL BE POSITIONED WITH ONE LUG CENTERED OVER STEPS.

LOCKING MH FRAME PLAN VIEW

CITY OF KIRKLAND
PLAN NO. CK-D.11
MANHOLE/CB FRAME AND GRATE ADJUSTMENT

LAST REVISED: 05/07/12

OUTSIDE TRAVELED AREA

TRAVELED AREA

12" MIN TYP

SAW CUT (TYP.)

EXIST. PAVEMENT SURFACE

PAVEMENT RESTORATION AS REQUIRED BY STD. PLAN NO. CK-R.12

PAVEMENT RESTORATION AS REQUIRED BY STD. PLAN NO. CK-R.12

SELECT OR NATIVE TRENCH BACKFILL COMPACT TO 95% OF MAX. DENSITY IN TRAVELED AREA; 90% OUTSIDE TRAVELED AREA.

6' MIN OR TO TOP OF TRENCH, WHICHEVER IS LESS

6' MAX

BENCH AS NEEDED FOR SHORING OR TRENCH BOX (TYP.) WHEN DEPTH IS 4' OR GREATER

12"

0.1" MIN.

SEWER PIPE

0.1" MIN.

PEA GRAVEL

SEE NOTE 1.

NOTES:

- TRENCH BACKFILL BELOW TOP 4 FEET MAY BE NATIVE MATERIALS OR AS REQUIRED BY THE SPECIFICATIONS, OR AS DIRECTED BY THE PUBLIC WORKS INSPECTOR.
- MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE
 - 30 INCHES FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.
 - O.D. PLUS 16 INCHES FOR PIPE LARGER THAN 12" NOMINAL DIAMETER.
- IN PAVED AREAS USE CRUSHED ROCK BACKFILL
 - FULL DEPTH OF TRENCH WHERE SEWER MAIN CROSSES PERPENDICULAR TO THE TRAVELED LANE OR DRIVEWAY.
 - TOP FOUR FEET WHERE SEWER MAIN RUNS PARALLEL TO THE TRAVELED LANE, UNLESS EXISTING MATERIAL IS DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL.
- THE STREET SHALL BE OVERLAID WHEN THE ASPHALT ROADWAY IS LESS THAN 5YRS OLD FOR UTILITY CROSSINGS. THE STREET SHALL BE OVERLAID AT LEAST 15 FEET ON EACH SIDE OF THE TRENCH. SEE OVERLAY POLICY R-7.

CITY OF KIRKLAND
PLAN NO. CK-S.01
SANITARY SEWER TRENCH DETAIL

LAST REVISED: 11/30/00

NO SEWER ALLOWED IN THIS AREA

WATER MAIN STANDARD PIPE MATERIAL FOR SEWER LINES

STANDARD SEWER PIPE MATERIAL

PARALLEL CONSTRUCTION

TABLE 1
WATER MAIN STANDARD PIPE MATERIAL

TYPE OF PIPE	AWWA STANDARD		
	PIPE	JOINT	FITTINGS
DUCTILE IRON	C 1.52	C 111	C 110
CONCRETE CYLINDER	C 303		

NOTE:

- TO BE USED WHEN 10' MINIMUM SEPARATION CANNOT BE OBTAINED.

CITY OF KIRKLAND
PLAN NO. CK-S.02
WATER AND SEWER SPACING AND CLEARANCE

LAST REVISED: 2/3/05

RIGID PIPE BEDDING

30" MAXIMUM FOR PIPE UP TO AND INCLUDING 12" FOR PIPE LARGER THAN 12", O.D. OF PIPE PLUS 16".

BACKFILL SHALL BE COMPACTED TO 95% DENSITY

SPRING LINE

COMPACTED BEDDING GRAVEL PER WSDOT/APWA SECTION 9-03 STANDARD SPECIFICATIONS, OR CONCRETE IF SPECIFIED.

FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

PVC PIPE BEDDING

SEE ABOVE FOR TRENCH WIDTH

BACKFILL SHALL BE COMPACTED TO 95% DENSITY

COMPACTED BEDDING GRAVEL PER WSDOT/APWA SECTION 9-03 STANDARD SPECIFICATIONS, OR CONCRETE IF SPECIFIED.

PVC PIPE

FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

CONCRETE ENCASEMENT

SEE ABOVE FOR TRENCH WIDTH

CONCRETE, 2000 PSI (SEE NOTE 3.)

FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

NOTES:

- COMPACTED CRUSHED SURFACING TOP COURSE PER WSDOT/APWA SECTION 9-03.9(3) STANDARD SPECIFICATIONS CAN ALSO BE USED AS BEDDING GRAVEL.
- EXCAVATE UNSTABLE MATERIAL DOWN TO FIRM SOIL AND REPLACE WITH FOUNDATION GRAVEL PER SECTION 9-03.9(1) OF THE STANDARD SPECIFICATIONS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANCHORING PIPE TO PREVENT FLOTATION DURING CONCRETE PLACEMENT.

CITY OF KIRKLAND
PLAN NO. CK-S.03
PIPE BEDDING

LAST REVISED: 3/26/08

PLAN VIEW

1-1/2" RECESSED LETTERING (BOOKMAN OLDSTYLE FONT)

3/4" RAISED LETTERING (RECESSED)

1" DIA. LIFT HOLE

8 1/2" FROM CENTER OF COVER

RING PLAN

8 MEMS 1/2" THICK

FRAME SECTION B-B

26 3/8"

25 1/4"

1" MACHINED SEAT

1 1/4"

23 3/4"

5"

33 3/4"

2 1/2"

25"

COVER SECTION A-A

NOTES:

- COVER MATERIAL IS DUCTILE IRON ASTM A48 CL358, WITH A MINIMUM WEIGHT OF 141 LBS.
- FRAME MATERIAL IS DUCTILE IRON ASTM A48 CL358, WITH A MINIMUM WEIGHT OF 134 LBS.
- COVERS SHALL HAVE THE TEXT IN LETTERING NOTED ON PLAN VIEW ABOVE.
- PRODUCT SUPPLIED BY EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY, OR APPROVED EQUAL.

CITY OF KIRKLAND
PLAN NO. CK-S.15
24" MANHOLE RING AND COVER

LAST REVISED: 11/30/99

INSTALL PRECAST GRADE RINGS, RISERS OR LEVELING BRICKS AS NECESSARY TO MATCH FINAL GRADE.

FRAME & COVER/GRATE

LIMIT OF EXCAVATION (TYP.)

MINIMUM 2" CLASS B W/SEALER @ RIM & SAND SEE: CK-R.12

EXISTING PAVEMENT

CONCRETE OR NON-SHRINK GROUT

PLACE & COMPACT CRUSHED SURFACING TOP COURSE

EXIST. MANHOLE OR CATCH BASIN

UNPAVED AREAS

LIMITS OF EXCAVATION (TYP.)

3000 P.S.I. CEMENT CONCRETE PERIMETER SEAL

GROUT BETWEEN ALL JOINTS.

INSTALL PRECAST GRADE RINGS, RISERS OR LEVELING BRICKS AS NECESSARY TO FINAL GRADE

EXISTING MANHOLE OR CATCH BASIN

CONCRETE PERIMETER SEAL SHALL EXTEND 2" BELOW GRADE RINGS OR BRICKS

NOTES:

- WHERE DEPTH OF NECK EXCEEDS 18 INCHES, ADJUST MANHOLE/CATCH BASIN TO GRADE BY INSERTING NEW BARREL SECTION BETWEEN THE CONE/SLAB AND EXISTING BARREL.
- GRADE RINGS, RISERS, BRICK AND FRAME SHALL BE SET IN 3/4" NON-SHRINK GROUT, GROUT BETWEEN ALL JOINTS. ALL SURFACES MUST BE CLEAN OF DEBRIS AND DIRT, AND WETTED PRIOR TO GROUTING. GROUT SMOOTH INSIDE AND OUTSIDE SURFACES.
- STEPS OR HAND HOLDS SHALL BE ADDED AS NEEDED.
- PRECAST GRADE RINGS AND RISERS MUST BE CAST WITH GROOVE TO ALLOW FIELD INSTALLATION OF SAFETY STEP.
- REPLACE EXISTING FRAME AND COVER/GRATE IF NON-STANDARD.
- IF REQUIRED: LOCKING MH FRAMES SHALL BE POSITIONED WITH ONE LUG CENTERED OVER STEPS.

LOCKING MH FRAME PLAN VIEW

CITY OF KIRKLAND
PLAN NO. CK-S.26
MANHOLE FRAME AND GRATE ADJUSTMENT

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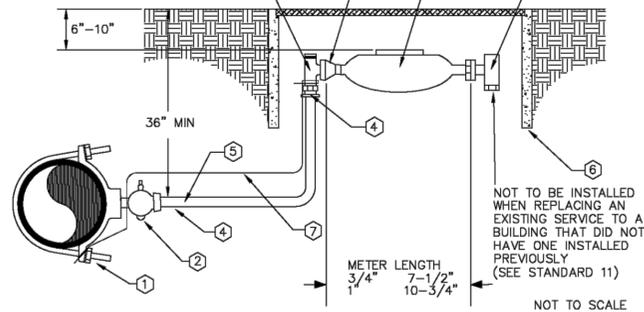
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WATER SERVICE STANDARDS

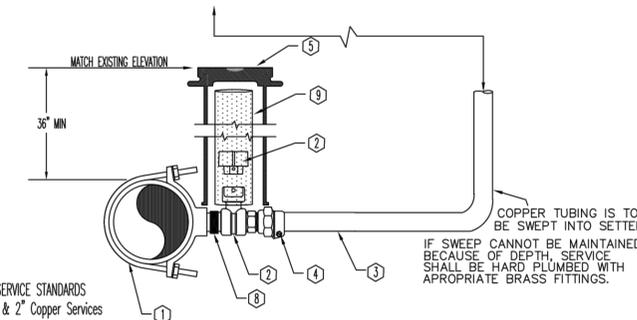
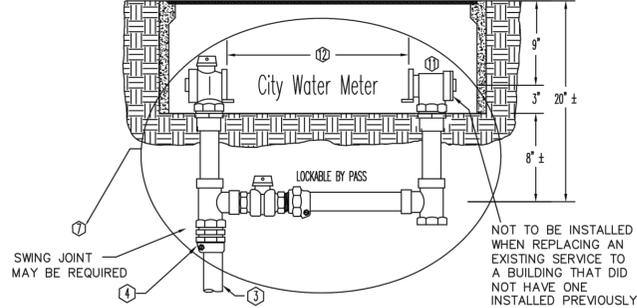
DESCRIPTION	MAKER OR TYPE	1"
1. SINGLE STRAP SADDLE	STAINLESS ROMAC OR EQUAL	101 1PT
2. CORP STOP	FORD OR EQUAL	f-1101-44 IPT X PACK JOINT
3. ANGLE STOP	FORD OR EQUAL	KV63-444W (1"x1") MALE THREAD
4. INSERTS	FORD OR EQUAL	#72 STAINLESS STEEL
5. PLASTIC PIPE	POLYETHYLENE ASTM D2239	IPS-SDR-7(PE340B)
6. METER BOX	CARSON OR EQUAL	CK-W.21 (OR W.23 W/APPROVAL)
7. TRACER WIRE	CU SOLID WIRE	14 GAUGE
8. CHECK VALVE	-----	CITY TO INSTALL
9. METER	-----	CITY TO INSTALL
10. 1" x 3/4" METER ADAPTOR (FOR 3/4" MTR)	FORD OR EQUAL #A24	CITY TO INSTALL UNLESS A CIP PROJECT
11. 1" METER 3/4" METER	FORD OR EQUAL L31-44	CONTRACTOR TO INSTALL

NOTES:

- ALL FITTINGS MUST BE FORD OR EQUAL.
- TRACER WIRE FROM MAIN TO SERVICE METER MUST BE INSTALLED IN ALL INSTALLATIONS. WIRE MUST BE WRAPPED AROUND ANGLE STOP AND THE CORPORATION STOP, WITH LAST 8" STRIPPED.
- POLY SERVICE LINE IS TO BE CONTINUOUS FROM MAIN TO METER--NO SPLICES OF ANY KIND.
- PLASTIC PIPE TO BE 1" MINIMUM FROM MAIN TO METER.
- METERS SHALL NOT BE LOCATED IN CONCRETE OR ASPHALT PAVING UNLESS UNAVOIDABLE.
- THE ANGLE STOP SHALL BE IN A POSITION THAT RESULTS IN THE METER BEING CENTERED DIRECTLY BENEATH THE METER READING LID.

CITY OF KIRKLAND
PLAN NO. CK-W.18

3/4" & 1" WATER METER SERVICE INSTALLATION



WATER SERVICE STANDARDS
1-1/2" & 2" Copper Services

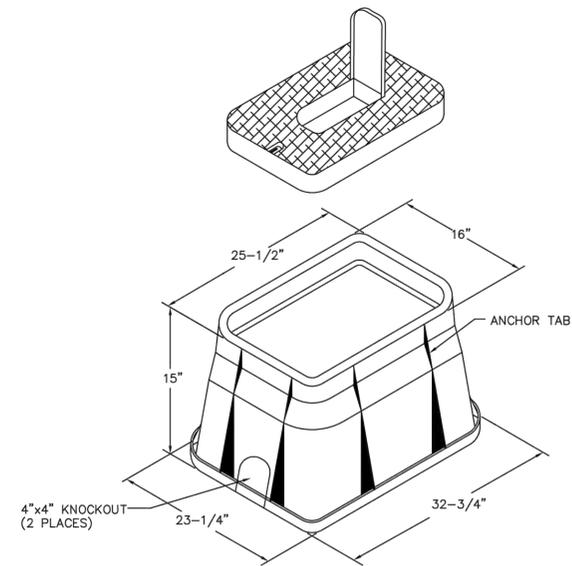
DESCRIPTION	MAKER OR RATING	1-1/2"	2"
1. Double Strap Saddle	Romac or Equal	202 PF	202 PF
2. Ball Valve-2" Operating Nut w/Cotter Pin	Ford or Equal	B11-866 w/087	B11-777 w/087
3. Pipe - Soft Copper Tubing, Type K	ASTM B-88		
4. Coupling Male	Ford or Equal	C84-66	C84-77
5. Valve Box	Rich or Equal (940)		
6. Meter Box	Carson or Equal	1324-15L	1324-15L
7. Meter Setter w/Lockable Bypass	Ford or Equal	V986-12B	V987-12B
8. Brass Nipple (5')		1-1/2"	2"
9. 2" Sleeve	PVC		
10. City to install Meter			
11. New Construction Must Have Check Valve Existing Building Before 1990 Construction Must Have Angle Stop on Both Sides			
12. Distance Between Flanges		13-1/4"	17-1/4"

NOTES:

- THREAD SEALANT AND TEFLON TAPE MUST BE USED ON ALL FITTINGS.
- METERS SHALL NOT BE LOCATED IN CONCRETE OR ASPHALT PAVING.

CITY OF KIRKLAND
PLAN NO. CK-W.19

1-1/2" & 2" WATER METER SERVICE INSTALLATION

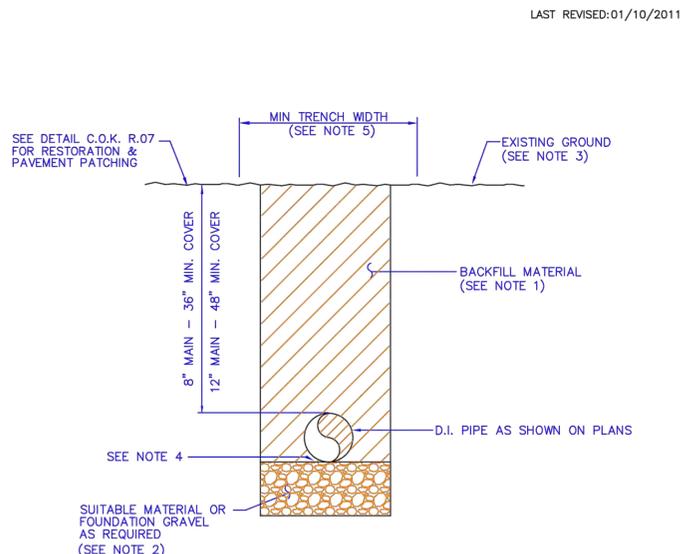


NOTES:

- USE - CARSON MODEL 1324-15L WITH READING LID OR EQUAL
- COVER MUST DISPLAY "W.M." OR EQUAL
- METER READING FLIP-UP LID SHALL BE PLASTIC.

CITY OF KIRKLAND
PLAN NO. CK-W.22

1-1/2" & 2" WATER METER BOX PLACED IN PLANTER

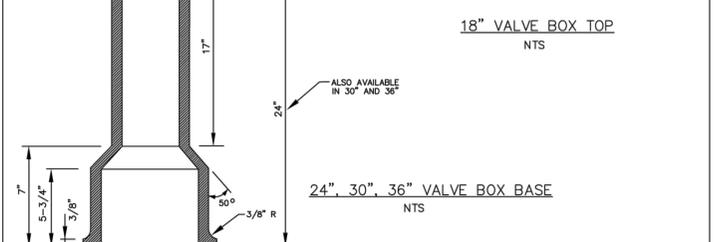
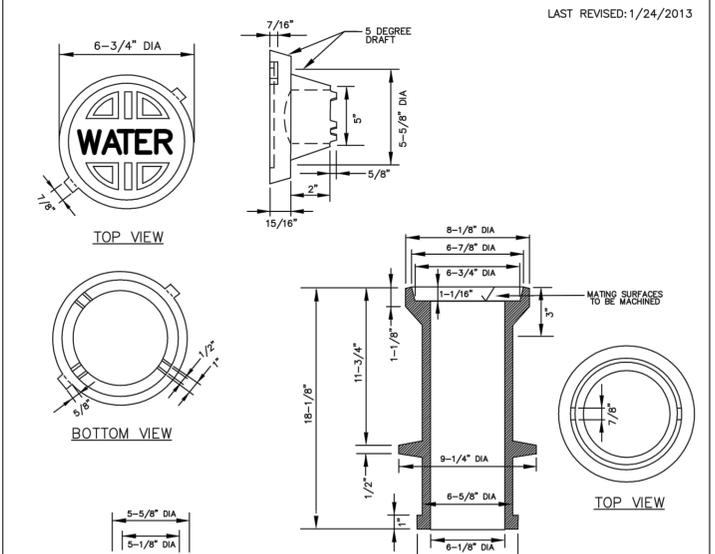


NOTES:

- ALL TRENCH BACKFILL MATERIAL SHALL CONSIST OF SUITABLE NATIVE EXCAVATED MATERIAL OR IMPORTED BACKFILL MATERIAL AS AUTHORIZED BY THE ENGINEER. ALL TRENCHES SHALL BE COMPACTED TO 95% MDD.
- FOUNDATION GRAVEL SHALL BE REQUIRED TO PROVIDE A SOLID FOUNDATION FOR THE WATER MAIN IN THOSE AREAS OF THE TRENCH WHICH HAVE UNSUITABLE MATERIAL OR SOFT SPOTS.
- GRAVEL SHOULDERS AND DRIVEWAYS SHALL BE RESTORED WITH A 3" MIN. THICKNESS LAYER OF 5/8" MINUS CRUSHED SURFACING.
- PLACE AND COMPACT BACKFILL IN MAXIMUM 4" LIFT TO PIPE SPRINGLINE TO ASSURE NO VOIDS UNDER PIPE.
- MINIMUM TRENCH WIDTH FOR PIPE DIA. 15" AND UNDER IS I.D. + 30". FOR PIPE DIA. 16" AND OVER IS (1.5 x I.D.) + 18", PER SECTION 2-09.4 OF THE STANDARD SPECIFICATIONS.

CITY OF KIRKLAND
PLAN NO. CK-W.34

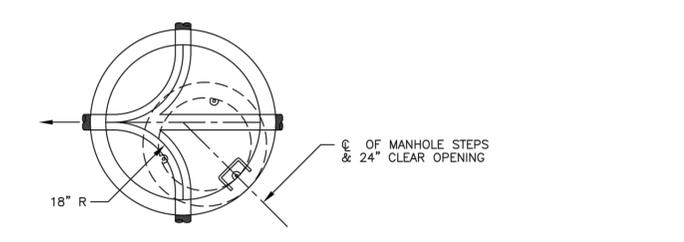
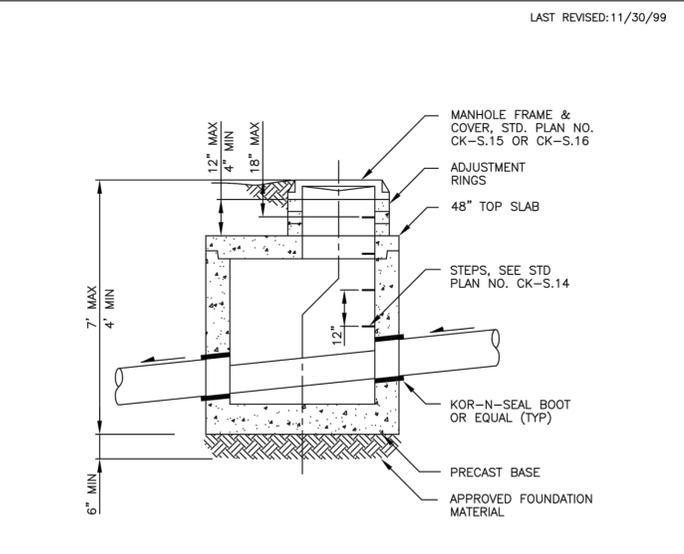
WATER TRENCH DETAIL



CITY OF KIRKLAND
PLAN NO. CK-W.35

WATER VALVE BOX

- NOTES:**
- IF NEEDED, USE MULTIPLE BASE SECTIONS STARTING WITH 36" BASE. "SOIL PIPE" WILL NOT BE ACCEPTED.
 - MATERIAL SHALL BE CAST IRON ASTM A48, CL30.
 - OLYMPIC FOUNDRY PRODUCT OR EQUIVALENT.
 - PAINT VALVE LID WITH KELLY MOORE 5880 DTM GLOSS ENAMEL-SAFETY BLUE OR EQUAL.

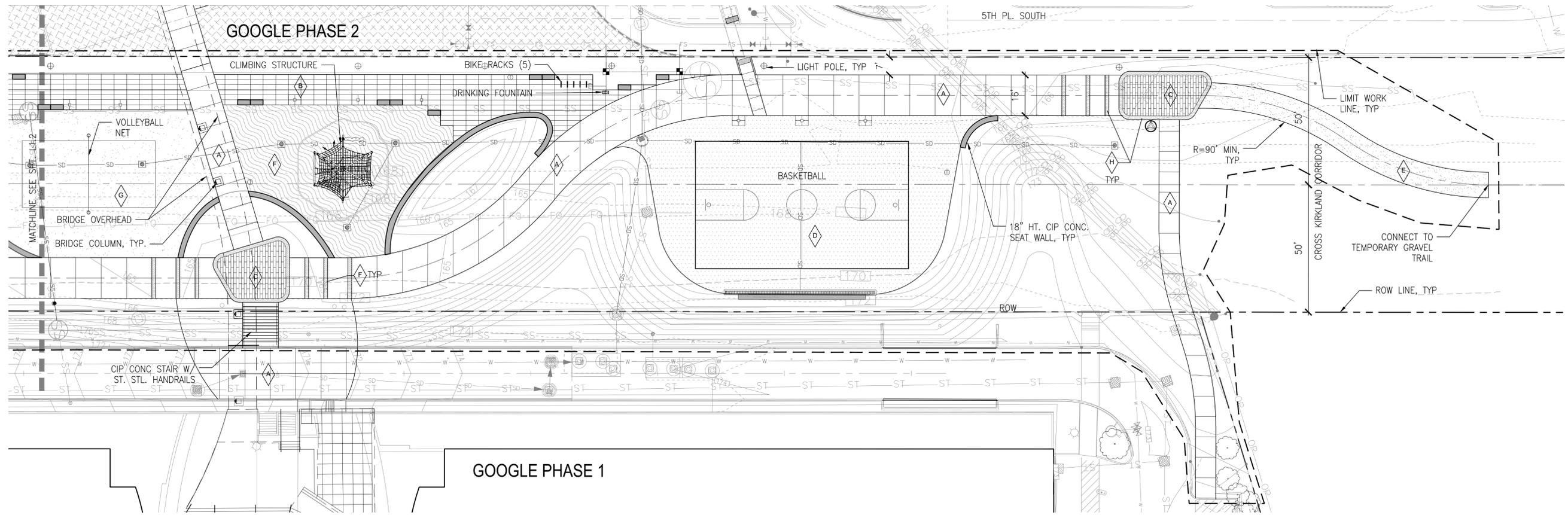


CITY OF KIRKLAND
PLAN NO. CK-S.10

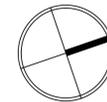
SHALLOW MANHOLE ASSEMBLY

k p f f Consulting Engineers
1601 Fifth Avenue, Suite 1600
Seattle, Washington 98101-3665
(206) 622-5822 Fax (206) 622-8130

811 Call 811
two business days before you dig



1 LANDSCAPE MATERIALS PLAN NORTH
1" = 20'



MATERIALS & FINISHES - ROW

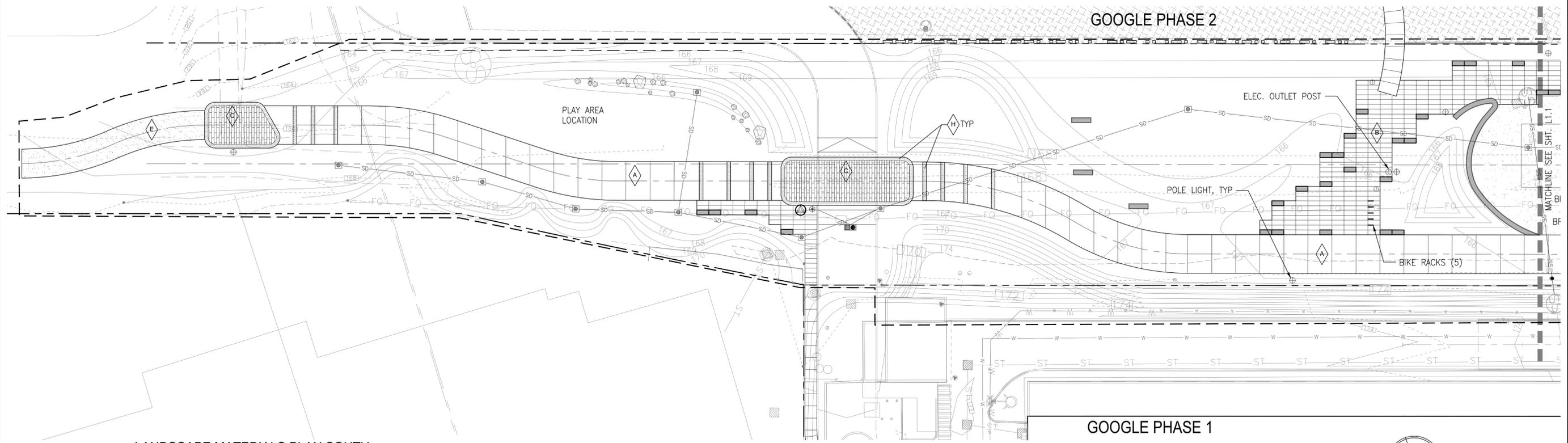
-  **VEHICULAR CONCRETE PAVING**
BROOM FINISH, NATURAL GREY,
SAWCUT JOINTS
4" CONC. OVER 6" AGG.. BASE
-  **PEDESTRIAN CONCRETE PAVING**
LT. SANDBLAST FINISH, NATURAL
GREY, SAWCUT JOINTS
4" CONC. OVER 4" AGG.. BASE
-  **PRECAST CONCRETE PAVERS**
3" X 12" X 4" DEEP PAVERS
SAND SET ON 6" AGG. BASE
-  **ASPHALT PAVING**
3" A.C. OVER 4" AGG. BASE
-  **GRAVEL PAVING - PEDESTRIAN**
3" CRUSHED ROCK. OVER
2" AGG. BASE
-  **ENGINEERED WOOD FIBER SAFETY SURFACING**
12" DEPTH MIN. OVER 4"
DRAIN ROCK W/
SUBDRAINAGE
-  **SAND SAFETY SURFACING**
12" DEPTH MIN. OVER 4"
DRAIN ROCK W/
SUBDRAINAGE
-  **EXPOSED AGGREGATE CONCRETE BANDS**
18" WIDE BANDS OF 4" CONC. OVER 6"
AGG BASE, USED AS TACTILE WARNING,
AND "MIXING ZONE" EDGE, FLUSH W/
ADJACENT PAVING

SITE FURNISHINGS - ROW

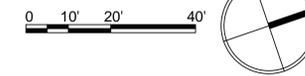
-  CIP CONC. SEATWALL W/ FTNG. - 18" HT. X 2' W @ FIN. GR.
(ALTERNATE - SOLID GRANITE W/ SAWN TOP,
SPLIT FACES)
-  CIP CONC. SEATWALL W/ FTNG. - 18" HT. X 2' W @ FIN. GR.
-  GRANITE BOULDERS - AVERAGE 2-5 TONS EA.
-  PREMANUFACTURED BIKE RACK
-  PREMANUFACTURED TRASH RECEPTACLE
-  PREMANUFACTURED BASKETBALL POLE, HOOP, BACKBOARD
-  PREMANUFACTURED POLE LIGHT
-  SIGNAGE KIOSK W/ LIGHTING
-  FREESTANDING ELECTRICAL OUTLET POST
-  HAWS 2 TIER DRINKING FOUNTAIN



Karen Kiest
Landscape Architects
111 West John Street Suite 305
Seattle Washington 98119
206.323.6032
www.kk-la.com



1 LANDSCAPE MATERIALS PLAN SOUTH
1" = 20'



MATERIALS & FINISHES - ROW

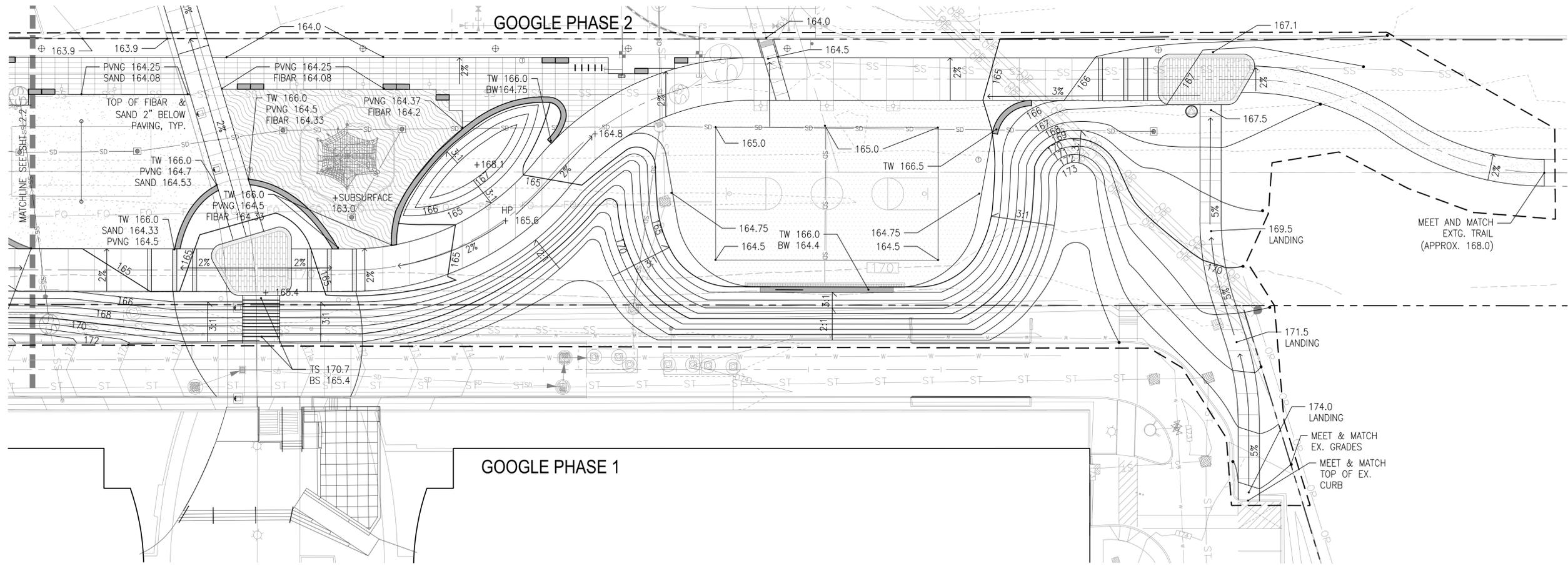
-  **VEHICULAR CONCRETE PAVING**
BROOM FINISH, NATURAL GREY,
SAWCUT JOINTS
4" CONC. OVER 6" AGG. BASE
-  **PEDESTRIAN CONCRETE PAVING**
LT. SANDBLAST FINISH, NATURAL
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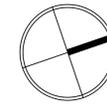
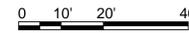
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www.kk-la.com



1 LANDSCAPE GRADING PLAN NORTH
1" = 20'



LEGEND

SYMBOL	DESCRIPTION
164.5	SPOT ELEVATION
BS	BOTTOM OF STAIR
TS	TOP OF STAIR
BW	BOTTOM OF WALL
TW	TOP OF WALL
BR	BOTTOM OF RAMP
TR	TOP OF RAMP
FFE	FINISH FLOOR ELEVATION
(Dashed line)	EXISTING CONTOUR
(Solid line)	PROPOSED CONTOUR
(Arrow)	DIRECTION OF FLOW



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STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT
KAREN S. KEST
LICENSE NO. 850
EXPIRES ON 12/10/2015

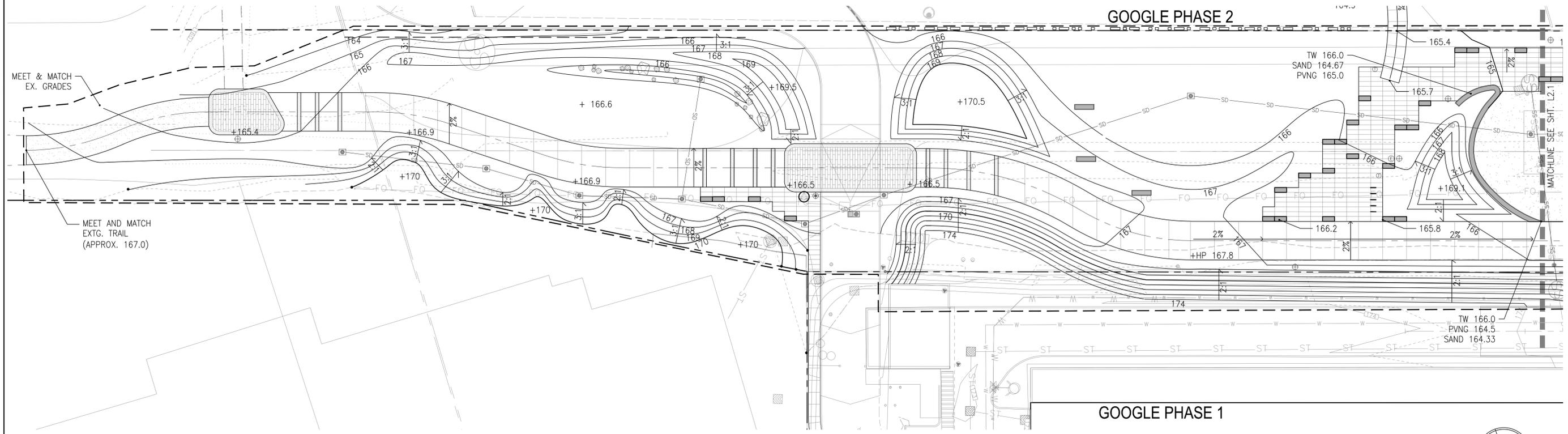
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73-12144-00
05.21.2014



LANDSCAPE GRADING PLAN NORTH
SRMKII
CROSS KIRKLAND CORRIDOR IMPROVEMENTS

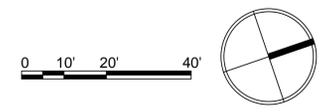
LSM GRADING
PERMIT SUBMITTAL
07-07-14



MEET & MATCH
EX. GRADES

MEET AND MATCH
EXTG. TRAIL
(APPROX. 167.0)

1 LANDSCAPE GRADING PLAN SOUTH
1" = 20'



LEGEND

SYMBOL	DESCRIPTION
164.5	SPOT ELEVATION
BS	BOTTOM OF STAIR
TS	TOP OF STAIR
BW	BOTTOM OF WALL
TW	TOP OF WALL
BR	BOTTOM OF RAMP
TR	TOP OF RAMP
FFE	FINISH FLOOR ELEVATION
(dashed line)	EXISTING CONTOUR
(solid line)	PROPOSED CONTOUR
(arrow)	DIRECTION OF FLOW



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