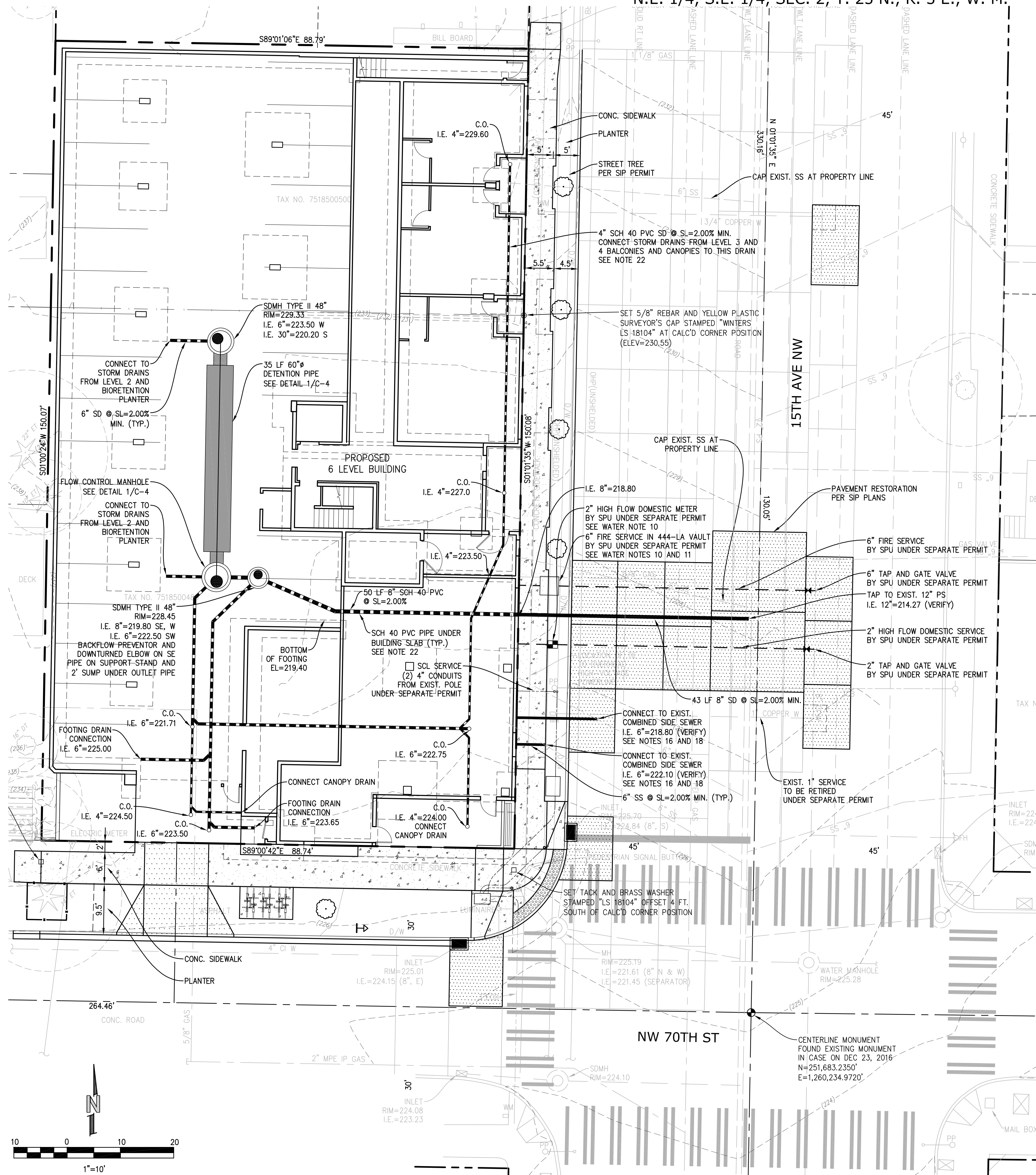


N.E. 1/4, S.E. 1/4, SEC. 2, T. 25 N., R. 3 E., W. M.



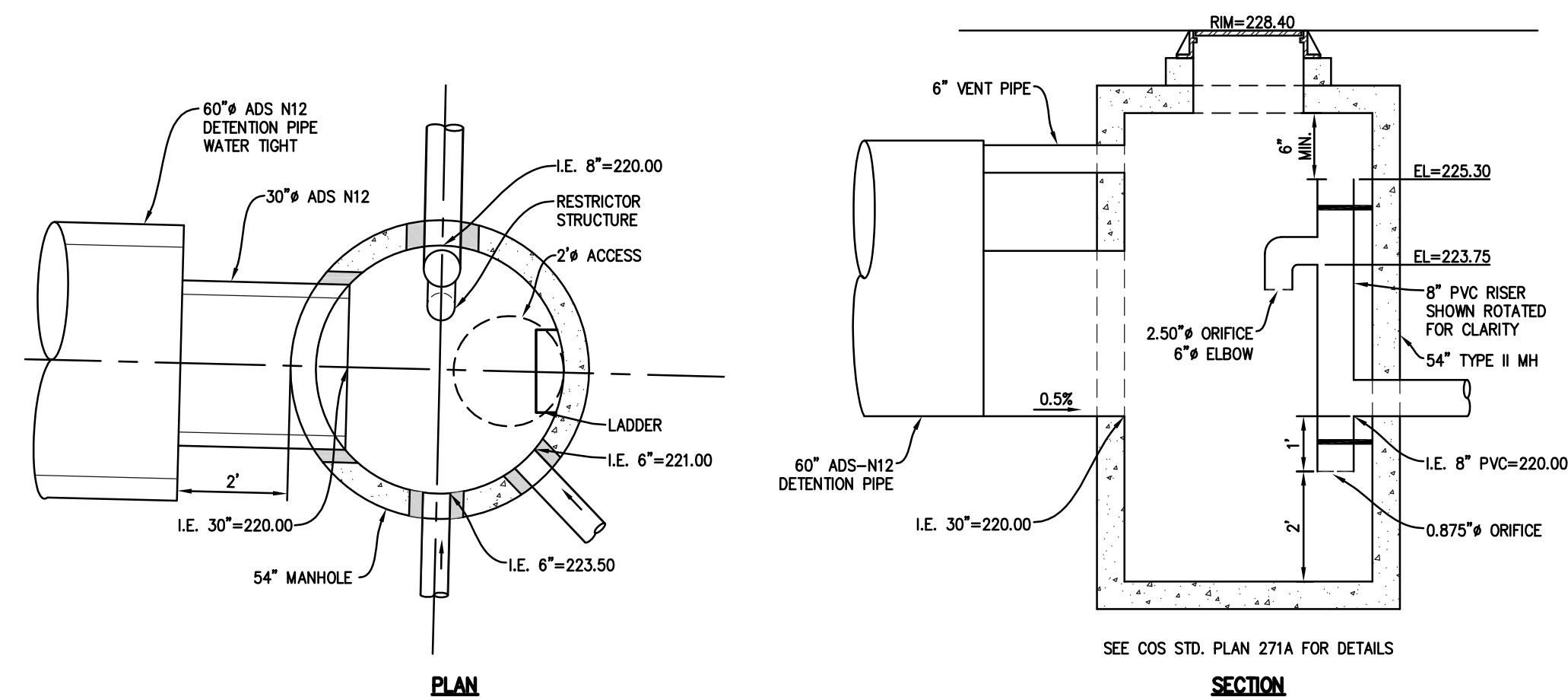
## NOTES FOR PRIVATE SEWER &amp; DRAINAGE

1. ALL WORKSMANSHIP AND MATERIALS SHALL CONFORM TO THE CURRENT CITY OF SEATTLE STANDARDS INCLUDING SDCI DIRECTORS RULE 4-2011. UTILITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY, LOCATE AND PROTECT ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS. EXISTING UTILITIES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
2. THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AT THE WORK SITE AND SHALL ERECT BARRICADES AND COVER EXCAVATIONS AS NECESSARY. THE CONTRACTOR SHALL PROVIDE 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.
3. PRIVATE SEWER AND STORM PIPE SHALL BE PVC PIPE, UNLESS SHOWN OTHERWISE, CONFORMING TO THE SPECIFICATIONS OF ASTM D 3034 FOR DIAMETER SIZES 4-INCH THROUGH 15-INCH, AND OF ASTM F679 FOR DIAMETER SIZES 18-INCH THROUGH 48-INCH (SEE CITY OF SEATTLE STANDARD SPECIFICATION 9-05), OR PIPE PER SCHEDULE 40 AND SCHEDULE 80 CONFORMING TO ASTM D 1785 WITH FITTINGS PER ASTM D 2466 AND D 2467.
4. PERFORATED SUBSURFACE DRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D 2241 (MINIMUM SDR 21) OR ASTM D 3034 (SEE CITY OF SEATTLE STANDARD SPECIFICATION 9-05) OR ASTM D1785 SCHEDULE 40. PERFORATED PIPE SHALL HAVE SLOTTED PERFORATIONS. SLOTS ARE TO BE 0.040" WIDE 1.0" LONG AND SPACED 0.25" APART. SLOT LOCATIONS SHALL BE LOCATED PER DETAIL ON PLANS.
5. DUCTILE IRON PIPE SHALL BE PER ANSI A2121 CLASS 50 WITH PUSH-ON JOINTS. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE PER ANSI A2121 OR ANSI A21.53 WITH PUSH-ON JOINTS. GLANDS ON MECHANICAL JOINT PIPE AND FITTINGS SHALL BE DUCTILE (SEE CITY OF SEATTLE STANDARD SPECIFICATION 9-05).
6. BEDDING SHALL BE CLASS B FOR ALL PIPE EXCEPT DUCTILE IRON PIPE, WHICH SHALL BE CLASS D. BEDDING MATERIAL FOR PVC PIPE SHALL BE MINERAL AGGREGATE TYPE 22. BEDDING MATERIAL FOR PVC PIPE SHALL BE MECHANICALLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-698.
7. TEES ON NEW PIPE LESS THAN 24" DIAMETER SHALL BE PREFABRICATED. TEES ON EXISTING PIPE OR ON NEW PIPE WITHOUT PREFABRICATED TEES SHALL BE CONNECTED BY CORE DRILLING AND FLEXIBLE CONNECTION.
8. SIDE SEWERS AND SERVICE DRAINS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 50%.
9. SIDE SEWERS AND SERVICE DRAINS SHALL BE CONNECTED OR RECONNECTED AS APPROVED BY THE INSPECTOR.
10. WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM SHALL BE PLACED AS A CUSHION BETWEEN THE UTILITIES.
11. SERVICE DRAINS AND SIDE SEWERS SHALL NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE LOCATION AND DEPTH IS RECORDED BY THE INSPECTOR.
12. THE CONTRACTOR SHALL PROVIDE SUPPORTS FOR POWER POLES NEAR EXCAVATIONS PER SEATTLE CITY LIGHT STANDARDS NO. D3-6.
13. FOOTING DRAINS SHALL BE INSTALLED AROUND THE BASE OF ALL RETAINING WALLS AND ALL FOUNDATION FOOTINGS THAT ENCLOSE A CRAWL SPACE, CELLAR, BASEMENT, GARAGE OR OTHER BUILDING SPACE. FOOTING DRAINS SHALL CONSIST OF 4" DIAMETER PERFORATED SUBSURFACE DRAIN PIPE AS SPECIFIED IN NOTE 5, SURROUNDED BY AT LEAST 6" OF 1" MINUS WASHED ROCK WHICH IS WRAPPED IN FILTER FABRIC (MIRAFI 140N, SUPAC 4NP OR EQUIVALENT). AT ITS HIGHEST POINT, THE PERFORATED PIPE INVERT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE FLOOR SLAB OR CRAWL SPACE SURFACE AND SHOULD BE SLOPED FOR DRAINAGE. ALL ROOF AND SURFACE WATER DRAINS SHALL BE KEPT SEPARATE FROM THE FOOTING DRAIN SYSTEM.
14. AREA DRAINS SHALL BE 6-INCH SQUARE OR ROUND NDS CATCH BASINS, OR EQUIVALENT, OR AS NOTED ON THE PLANS. PROVIDE GRATE TYPE TO ARCHITECT FOR APPROVAL. ADDITIONAL AREA DRAINS MAY BE NECESSARY IN LOW POINTS AND SHALL CONNECT TO THE STORM DRAIN SYSTEM.
15. THE ACTUAL ELEVATION OF THE EXISTING PUBLIC SEWER AND STORM DRAIN SHALL BE FIELD DETERMINED PRIOR TO ANY CONSTRUCTION AND PROBLEMS REPORTED TO THE ENGINEER.
16. MINIMUM PIPE SLOPE IS 1% FOR SLOPES LESS THAN 2% A SAVE HARMLESS AND INDEMNIFICATION AGREEMENT MUST BE EXECUTED WITH KING COUNTY RECORDS BUREAU PROPERLY CONNECTED TO THE SIDE SEWER.
17. USE OF THE EXISTING SIDE SEWER LATERAL REQUIRES EVALUATION AND CERTIFICATION BY A PROFESSIONAL ENGINEER PRIOR TO THE SIDE SEWER PERMIT FINAL APPROVAL PER SS21-BE.240 AND DR4-2011. CERTIFICATION SHALL INCLUDE VIDEO EVALUATION AND CAPACITY ANALYSIS. THE EXISTING SIDE SEWER MAY BE REUSED INSTEAD OF INSTALLING A NEW SIDE SEWER IF STRUCTURALLY SOUND AND FREE OF JOINT GAPS, JOINT OFFSETS AND ROOT INTRUSION, AND IF AT AN ELEVATION THAT FACILITATES GRAVITY FLOW FROM THE PROPOSED DEVELOPMENT. THE EXISTING SIDE SEWER SHALL BE LINED PER SDCI REQUIREMENTS. IF THE SIDE SEWER IS FOUND TO BE INADEQUATE AND/OR CANNOT BE RELINED, THEN A NEW SIDE SEWER WILL BE REQUIRED TO BE INSTALLED WITH THE NECESSARY PERMIT.
18. SAWCUT, REMOVAL AND REPAIR OF EXISTING PAVEMENT PER THE CITY OF SEATTLE PAVEMENT OPENING AND RESTORATION POLICY AND STANDARD PLANS 404A, B AND C.
19. A BACKFLOW PREVENTOR WILL BE REQUIRED FOR FIXTURES BELOW ELEVATION 237.00 PER CITY RECORDS OF THE UPSTREAM SSMH AND SHOULD BE FIELD VERIFIED.
20. CATCH BASINS NOTED TO HAVE 2 FOOT SUMPS SHALL INCLUDE A VERTICAL CLEARANCE OF 2 FEET BELOW THE LOWEST PIPE INVERT AND THE FLOOR OF THE STRUCTURE. THE MINIMUM SUMP VOLUME SHALL BE 2 CUBIC FEET.
21. DRAINAGE FACILITIES SHOWN INSIDE THE BUILDING ARE INTENDED AS A GUIDE FOR PLUMBING DESIGN. DRAINAGE FACILITIES INSIDE THE BUILDING REQUIRE A SEPARATE PLUMBING PERMIT.
22. ALL UTILITY SERVICES SHOWN, OTHER THAN SEWER AND STORM DRAINAGE, ARE PRELIMINARY. FINAL DESIGNS ARE PER UTILITY PROVIDERS. SEPARATE AGREEMENTS SHALL BE MADE TO THESE PROVIDERS.

APPLICATIONS SHALL BE MADE TO THOSE

WATER SERVICE NOTES

1. APPLICATION FOR A NEW METERED WATER SERVICE AND ALL FEES PAID, IS REQUIRED 60 TO 90 DAYS BEFORE SERVICE WILL BE AVAILABLE. OWNER WILL NEED WATER AVAILABILITY CERTIFICATE, LEGAL DESCRIPTION OF PROPERTY AND THREE (3) COPIES OF APPROVED STREET IMPROVEMENT PLANS WHEN MAKING APPLICATION.
2. ALL WATER SERVICE PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
3. FOR INFORMATION AND INSPECTION, PHONE WATER SERVICE AT 684-5800.
4. MAXIMUM OF ONE DOMESTIC SERVICE ALLOWED PER PARCEL OR UNIT LOT IF PARCEL IS SUBDIVIDED.
5. UNIT LOTS WITH FRONTAGE ON THE WATER MAIN MUST HAVE THEIR SERVICES WITHIN THE UNIT LOT FRONTAGE.
6. SERVICES FOR UNIT LOTS IN THE REAR (NO FRONTAGE) MAY BE CLUSTERED.
7. SERVICES MUST BE LOCATED IN THE PLANTER STRIP IF AVAILABLE, WITH CLOSEST EDGE OF METER BOX 1½ FROM EDGE OF SIDEWALK.
8. WHERE PLANTING STRIP IS NOT AVAILABLE, METER BOXES SHALL ALLOW 6" BETWEEN EDGE OF METER BOX AND THE NEAREST EDGE OF CONCRETE OR CONCRETE JOINT.
9. CLUSTERED SERVICES MUST BE SPACED AT 30 INCHES ON CENTER FOR CIP WATER MAINS.
10. WATER FACILITIES, INCLUDING METER AND PIPE SIZES SHOWN ON THIS PLAN ARE PRELIMINARY. DOMESTIC AND FIRE WATER SUPPLY INCLUDING METERS, VALVES AND PIPE SIZES TO BE DETERMINED BY FIRE SPRINKLER AND PLUMBING DESIGNER PRIOR TO SERVICE APPLICATION. COMBINE METERS IF POSSIBLE. FDC LOCATION TO BE COORDINATED WITH THE FIRE MARSHALL.
11. FIRE DCVA, FDC CHECK VALVE AND DOMESTIC RPBA, IF REQUIRED, TO BE INSTALLED IN BUILDING.
12. THE SCOTTIE FIRE DEPARTMENT, AS WELL AS SPU, REQUIRES INSPECTIONS FOR WATER SERVICE PIPING USED FOR FIRE PROTECTION.



FLOW CONTROL MANHOLE

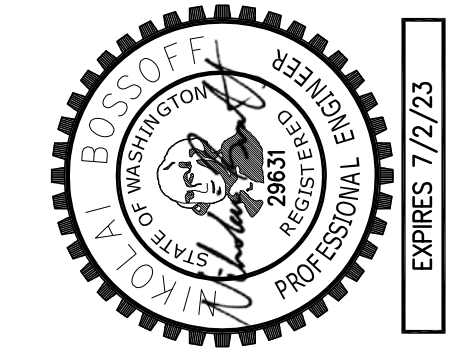
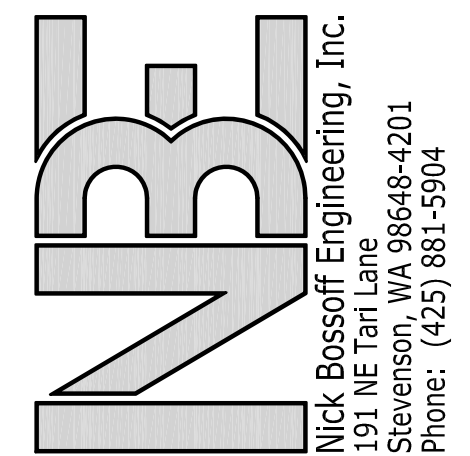
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SEATTLE

WASHINGTON



PROJECT MANAGER:		NO.	DATE	REVISION
N. BOSSOFF, P.E.				
DESIGNED:		△	06/21/21	PERMIT SUBMITTAL
NB		△	10/28/21	DRAINAGE CORRECTION #1
TKB		△	11/02/21	DEMO PERMIT COMMENTS
DRAWN:		△	11/16/21	DEMO PERMIT COMMENTS #2
KAMI-1801		△	12/01/21	DEMO PERMIT COMMENTS #3
JOB NUMBER:		△	02/07/22	SIP REVISIONS
KAMI-1801pln.dwg		△		
FILE NAME:		△		

TITLE:

# DRAINAGE PLAN

**SHEET:**

C-4