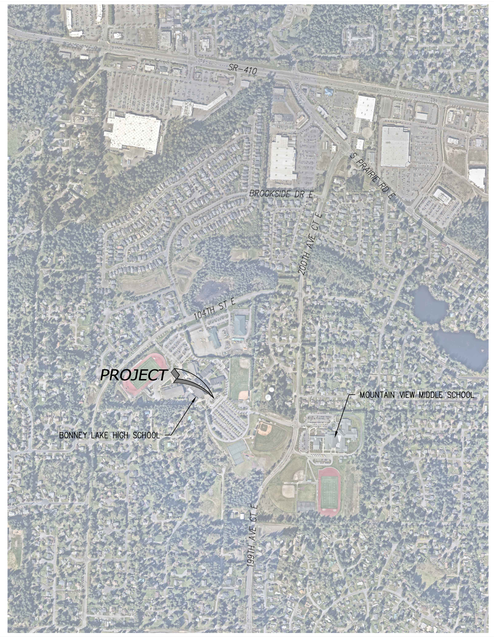
SUMNER - BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION

VICINITY MAP:



NORTH

PREPARED FOR:

bcra

2106 PACIFIC AVE, SUITE #300
TACOMA, WA 98402
CONTACT: CHRISTOPHER SPADAFORE CSPADAFORE@BRCADESIGN.COM

PREPARED BY:

sitts&hill

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA. 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/
CONTACT: DAVID FILLMORE, SENIOR PROJECT MANAGER
EMAIL: DAVIDF@SITTSHILL.COM

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SV1.1 TOPOGRAPHIC SURVEY
SV1.2 TOPOGRAPHIC SURVEY
SV1.3 TOPOGRAPHIC SURVEY
SV1.4 TOPOGRAPHIC SURVEY
SV1.5 TOPOGRAPHIC SURVEY
SV1.6 TOPOGRAPHIC SURVEY
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OVERALL SITE PLAN:



HORIZONTAL SCALE: 1"=300'
300 0 300 600

NORTH

SURVEY NOTES

1. EQUIPMENT USED: CARLSON CR2+ ROBOTIC TOTAL STATION AND TOPCON GR3 RTK/GPS
2. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE AND RELATIVE POSITIONAL ACCURACY STANDARDS CONTAINED IN W.A.C. 332-130-085 AND W.A.C. 332-130-090. THE RELATIVE POSITIONAL ACCURACY OF THE POSITIONS LOCATED HEREON MEETS OR EXCEEDS 2 CM (0.07 FT.) PLUS 50 PARTS PER MILLION BETWEEN ANY TWO TESTED POSITIONS. ALL MEASUREMENTS WERE MADE WITH A CARLSON CR2+ ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332-130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
4. FIELD WORK PERFORMED IN DECEMBER 2022 AND JANUARY 2023, UNDER SITTS & HILL JOB NUMBER 19853; AND FEBRUARY 2025, UNDER SITTS & HILL JOB NUMBER 20818
5. UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MT. VIEW LOCATING IN DECEMBER 2022 FOR THIS SURVEY. THIS HAS BEEN SUPPLEMENTED BY RECORD INFORMATION PROVIDED BY MT.VIEW LOCATING SERVICES LLC. AND THE CITY OF BONNEY LAKE. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH A DASHED LINETYPE AS SHOWN IN THE LEGEND. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL (B) OF THE ASCE STANDARD GUIDELINES 38-02.
6. SITTS & HILL ENGINEERS, INC. HAS RELIED UPON TITLE INFORMATION NOTED IN COMMITMENT FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 221189-TC, DATED FEBRUARY 24, 2025 AND COMMITMENT FOR TITLE INSURANCE PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, COMMITMENT NUMBER 20120481, DATED AUGUST 22, 2007. IN PREPARATION OF THIS SURVEY, SITTS AND HILL ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS SITTS AND HILL ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND/OR DISCLOSED BY SAID TITLE COMPANYS' ORDERS. SITTS & HILL ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPORT AND THEREFORE QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
7. THIS SURVEY COMPLIES WITH W.A.C. 332-130-145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN. THIS TOPOGRAPHIC SURVEY MAP HAS BEEN DEVELOPED FROM A BODY OF FIELD COLLECTED DATA POINTS AND RECORD INFORMATION, AS NOTED. NOT ALL UNDERLYING DATA POINTS EXISTING WITHIN THE CAD BASE DRAWING (AUTODESK CIVIL 3D FILE) ARE DEPICTED ON THE PDF DELIVERABLE. SEE THE DIGITAL CAD FILE FOR ALL FIELD COLLECTED DATA, AND CONTACT SITTS & HILL ENGINEERS IF THERE ARE ISSUES WITH MAKING THIS DATA VISIBLE.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN)

MEASURED NORTH 02°41'36" EAST BETWEEN TWO FOUND MONUMENTS ALONG 119TH AVE. CT. E.

VERTICAL DATUM

NAVD 88
BASED ON GPS OBSERVATION UTILIZING THE WSRN WITH NGS GEOID18 LOADED

TEMPORARY BENCHMARK #1
ELEVATION = 653.63'
DESCRIPTION: SCRIBE #53, IN CONCRETE,
17.6± N.W. OF GRASS COURTYARD

TEMPORARY BENCHMARK #2
ELEVATION = 654.04'
DESCRIPTION: SCRIBE #52, IN CONCRETE,
11.5'± WEST OF THE NW CORNER OF A UTILITY RAMP

LEGAL DESCRIPTION

T.P.N. 051904-4027

THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER AND THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 4; THENCE SOUTH 02°31'09" WEST ALONG THE EAST LINE OF SAID SOUTHEAST QUARTER, 1329.59 FEET TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID SOUTHEAST QUARTER; THENCE NORTH 88°43'24" WEST ALONG THE SOUTH LINE OF THE NORTH HALF OF SAID SOUTHEAST QUARTER, 1845.93 FEET TO A POINT ON A CURVE; THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 73°38'04" EAST, 950.00 FEET, THROUGH A CENTRAL ANGLE OF 34°08'33", THENCE NORTH 50°30'29" EAST, 524.28 FEET; THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 39°29'31" EAST, 950.00 FEET, THROUGH A CENTRAL ANGLE OF 19°18'47"; THENCE NORTH 69°49'16" EAST, 883.14 FEET; THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 20°10'44" EAST, 700.00 FEET, THROUGH A CENTRAL ANGLE OF 07°13'22", TO A POINT ON THE NORTH LINE OF SAID SOUTHEAST QUARTER; THENCE SOUTH 88°35'42" EAST ALONG THE NORTH LINE OF SAID SOUTHEAST QUARTER 2.06 FEET TO THE POINT OF BEGINNING;

EXCEPT THOSE PORTIONS, IF ANY, CONVEYED TO THE CITY OF BONNEY LAKE BY DEEDS RECORDED UNDER RECORDING NOS. 9502080305 AND 9604020591.

SITUATE IN THE CITY OF BONNEY LAKE, COUNTY OF PIERCE, STATE OF WASHINGTON.

PROJECT INFORMATION:

BUILDING CONSTRUCTION TYPE:	IIB (FULLY SPRINKLED)
PARCEL NUMBERS:	051904-4027 (37.20± ACRES) A PORTION THEREOF 051904-4013 (4.95± ACRES) 051904-4014 (5.00± ACRES) 051903-3005 (36.24± ACRES) A PORTION THEREOF
SITE ADDRESS:	10920 - 199TH AVE CT E, BONNEY LAKE, WA 98391
ZONING:	PF (PUBLIC FACILITIES)
NEW & REPLACED IMPERVIOUS SURFACE:	90,263 S.F. (2.07 ACRES)
DISTURBED AREA:	342,635 S.F. (7.87 ACRES)
PROPOSED WORK:	CONSTRUCT A NEW HIGH SCHOOL BUILDING ADDITION, TOGETHER WITH SUPPORTING UTILITIES, ACCESSWAYS, AND PARKING AREAS.
100-YEAR FLOODPLAIN:	N/A - ZONE X
CUT/FILL:	CUT = 2,500 CY FILL = 1,500 CY NET = 1,000 CY (EXPORT) TOTAL EARTHWORK = 4,000 CY NOTE: THE CONTRACTOR SHALL PERFORM INDEPENDENT CALCULATIONS FOR BIDDING PURPOSES. QUANTITIES ARE FOR PERMITTING PURPOSES ONLY.
STORM SYSTEM DEVELOPMENT CHARGE (ONSITE AREAS ONLY):	
TOTAL EXISTING HARD SURFACE:	109,335 SF
TOTAL NEW HARD SURFACE:	90,263 SF
NET CHANGE:	19,092 SF (DECREASE)
TOTAL HARD (NEW AND REMAINING EXISTING) SURFACE:	90,263 SF
STORM PERMIT (ONSITE AND OFFSITE AREAS):	
TOTAL DISTURBED AREA:	342,635 SF
TOTAL NEW HARD SURFACE:	90,263 SF
TOTAL NEW AND REPLACED HARD SURFACE:	90,263 SF

STORMWATER ESU TABLE & CALCULATION BLOCK	
Site Name:	BONNEY LAKE HIGH SCHOOL
Address:	10920 - 199TH AVE CT E, BONNEY LAKE, WA 98391
Parcel Number:	TPN 051904-4027 TPN 051904-4013 TPN 051904-4014 TPN 051903-3005
Total Parcel Area Per Pierce County d-PIP (SF):	3,632,468 SF
Total Pervious Surface Area: (SF)	252,372 SF
Total Impervious Surface Area: (SF)	90,263 SF
Public ROS Area: (SF)	0 SF
Billable ESU:	30.61 ESU

1 ESU=2600 SF of Impervious Surface Area

CITY OF BONNEY LAKE REQUIRED PERMITS:
1. GRADE AND FILL PERMIT
2. COMMERCIAL STORMWATER REVIEW
3. BUILDING PERMITS

811 Call 811 two business days before you dig

sitts&hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

APPROVED
BY _____
CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____
NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

bcra
T 253.627.4367 F 253.627.4366 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

DAVID FILLMORE STATE OF WASHINGTON 22810 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
CIVIL COVER SHEET

bcra
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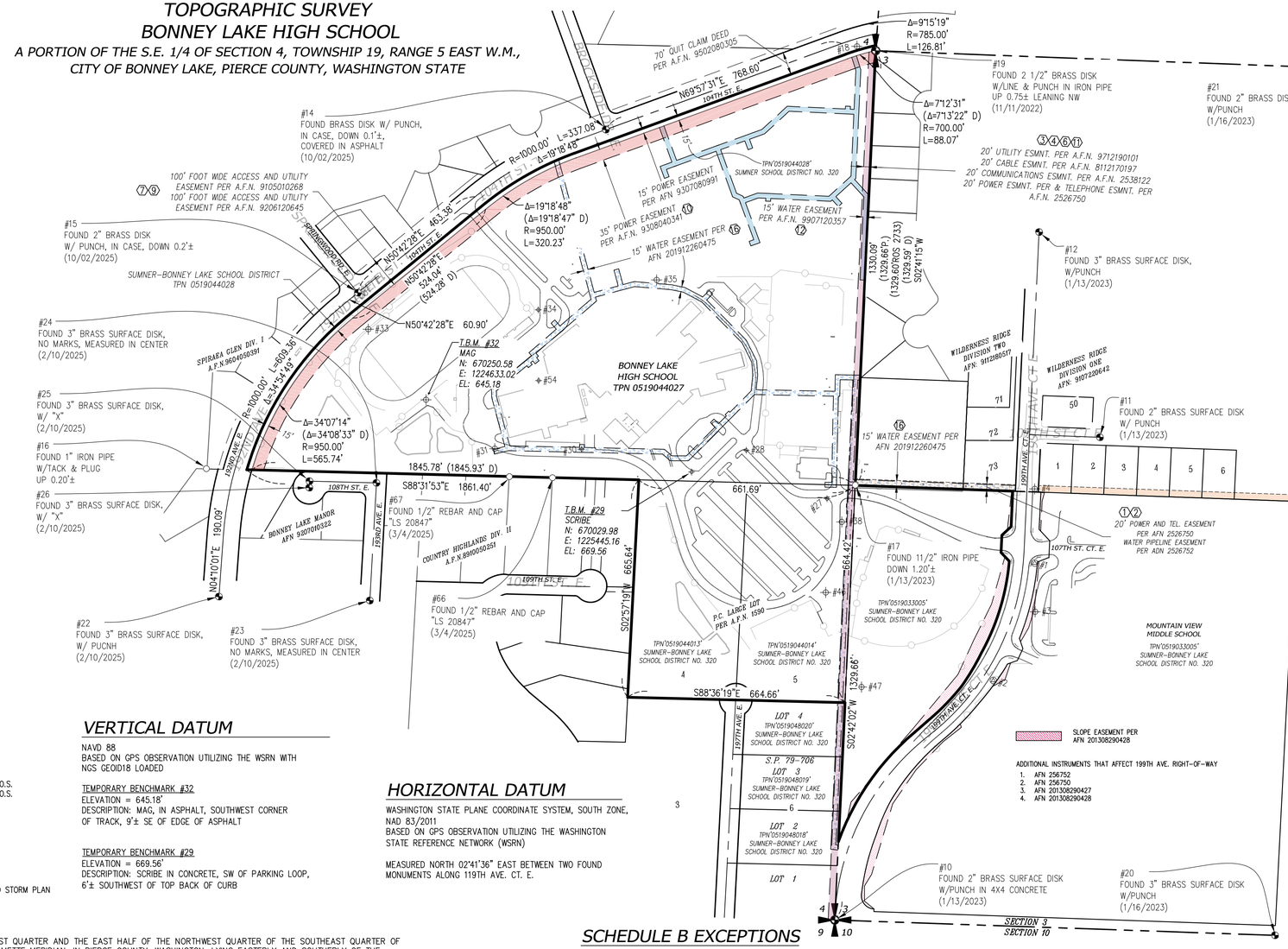
SHEET
C-001

DESIGN DEVELOPMENT

30x42

TOPOGRAPHIC SURVEY
BONNEY LAKE HIGH SCHOOL
A PORTION OF THE S.E. 1/4 OF SECTION 4, TOWNSHIP 19, RANGE 5 EAST W.M., CITY OF BONNEY LAKE, PIERCE COUNTY, WASHINGTON STATE

POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	669751.68	1226494.55	673.14	RCC
2	669392.72	1226367.92	666.59	RCC
3	669602.78	1226495.83	676.78	MAG
4	669978.15	1226494.51	671.81	MAG
10	668660.64	1225883.12	612.78	MON
11	670136.03	1226693.81	675.38	MON
12	670763.10	1226508.00	662.92	MON
14	671076.36	1225182.75	627.45	MON
15	670577.98	1224425.01	625.66	MON
16	670040.07	1223961.52	618.44	IP
17	669989.69	1225945.81	685.80	IP
18	671331.04	1225951.10	633.01	MAG
19	671317.45	1226008.13	634.87	MON
20	668613.68	1227229.10	641.17	MON
21	671266.38	1227363.94	629.02	MON
22	669648.95	1223999.93	601.53	MON
23	669636.99	1224461.28	598.86	MON
24	669996.57	1224481.57	627.94	MON
25	670001.88	1224276.72	614.42	MON
26	669981.97	1224276.28	614.54	MON
27	669948.21	1225859.66	685.45	SCRIBE
28	670096.37	1225612.70	672.50	SCRIBE
29	670029.98	1225445.16	669.56	SCRIBE
30	670099.45	1225108.94	653.58	SCRIBE
31	670100.93	1224843.60	651.65	MAG
32	670250.58	1224633.02	645.18	MAG
33	670466.18	1224456.70	645.22	MAG
34	670525.75	1224976.46	652.23	SCRIBE
35	670616.87	1225338.70	654.53	MAG
38	669877.19	1225904.69	684.21	MAG
46	669661.79	1225855.46	679.18	MAG
47	669372.62	1225964.86	668.69	MAG
54	670309.18	1224977.62	653.22	SCRIBE
66	670012.33	1225019.97	649.81	RBC
67	670015.55	1224888.16	655.31	RBC



NORTH

HORIZONTAL SCALE: 1"=200'

200 0 200 400

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- TPN TAX PARCEL NUMBER
- BOUNDARY LINE
- LOT LINE
- SECTION LINE
- ROAD CENTERLINE

NOTES

1. EQUIPMENT USED: CARLSON CR2+ ROBOTIC TOTAL STATION AND TOPCON GR3 RTK/GPS
2. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE AND RELATIVE POSITIONAL ACCURACY STANDARDS CONTAINED IN W.A.C. 332-130-085 AND W.A.C. 332-130-090. THE RELATIVE POSITIONAL ACCURACY OF THE POSITIONS LOCATED HEREON MEETS OR EXCEEDS 2 CM (0.07 FT.) PLUS 50 PARTS PER MILLION BETWEEN ANY TWO TESTED POSITIONS. ALL MEASUREMENTS WERE MADE WITH A CARLSON CR2+ ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
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6. SITTS & HILL ENGINEERS, INC. HAS RELIED UPON TITLE INFORMATION NOTED IN COMMITMENT FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 221189-TC, DATED FEBRUARY 24, 2025 AND COMMITMENT FOR TITLE INSURANCE PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, COMMITMENT NUMBER 20120481, DATED AUGUST 22, 2007. IN PREPARATION OF THIS SURVEY, SITTS AND HILL ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS SITTS AND HILL ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND/OR DISCLOSED BY SAID TITLE COMPANYS' ORDERS. SITTS & HILL ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPORT AND THEREFORE QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
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REFERENCES

1. 201308290427 – SLOPE EASEMENT
2. 9107220642 – BLA
3. 9206120645 – EASEMENT
4. 9604050391 – SPIRAEA GLEN DIVISION 1
5. 200603305003 – GOLD SMITH – PIERCE COUNTY CRP #5676 R.O.S.
6. 200603305004 – GOLD SMITH – PIERCE COUNTY CRP #5675 R.O.S.
7. 9003150404 – CEDAR RIDGE PLAT
8. 8910050251 – COUNTRY HIGHLANDS DIVISION II
9. 2733 – WEYERHAUSER REAL ESTATE COMPANY R.O.S.
10. 1590 – LARGE LOT SUBDIVISION
11. 79-706 – SHORT PLAT
12. 9105160438 – WILDERNESS RIDGE DIVISION I
13. 9207010322 – BONNEY LAKE MANOR
14. 9502080305 – QUIT CLAIM DEED
15. 9807270723 – QUIT CLAIM DEED
16. BONNEY LAKE FILE NO. 2001-31 – BLHS PAVING, GRADING, AND STORM PLAN

VERTICAL DATUM

NAVD 88
BASED ON GPS OBSERVATION UTILIZING THE WSRN WITH NGS GEOID18 LOADED

TEMPORARY BENCHMARK #32
ELEVATION = 645.18'
DESCRIPTION: MAG, IN ASPHALT, SOUTHWEST CORNER OF TRACK, 9'± SE OF EDGE OF ASPHALT

TEMPORARY BENCHMARK #29
ELEVATION = 669.56'
DESCRIPTION: SCRIBE IN CONCRETE, SW OF PARKING LOOP, 6'± SOUTHWEST OF TOP BACK OF CURB

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN)

MEASURED NORTH 02°41'36" EAST BETWEEN TWO FOUND MONUMENTS ALONG 119TH AVE. CT. E.

LEGAL DESCRIPTION

THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER AND THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON, LYING EASTERLY AND SOUTHERLY OF THE EASTERLY AND SOUTHERLY RIGHT-OF-WAY LINE OF 104TH STREET EAST CONVEYED TO THE CITY OF BONNEY LAKE BY DEEDS RECORDED UNDER RECORDING NUMBERS 9502080305 AND 9604020591 AND LYING WESTERLY AND NORTHERLY OF THE FOLLOWING DESCRIBED PROPERTY:

THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER AND THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 4; THENCE SOUTH 02°31'09" WEST ALONG THE EAST LINE OF SAID SOUTHEAST QUARTER, 1329.59 FEET TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID SOUTHEAST QUARTER;

THENCE NORTH 88°43'24" WEST ALONG THE SOUTH LINE OF THE NORTH HALF OF SAID SOUTHEAST QUARTER, 1845.93 FEET TO A POINT ON A CURVE;

THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 73°38'04" EAST, 950.00 FEET, THROUGH A CENTRAL ANGLE OF 34°08'33";

THENCE NORTH 50°30'29" EAST, 524.28 FEET;

THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 39°29'31" EAST, 950.00 FEET, THROUGH A CENTRAL ANGLE OF 19°18'47";

THENCE NORTH 69°49'16" EAST, 883.14 FEET;

THENCE ALONG A CURVE TO THE RIGHT, WHOSE RADIUS POINT BEARS SOUTH 20°10'44" EAST, 700.00 FEET, THROUGH A CENTRAL ANGLE OF 07°13'22", TO A POINT ON THE NORTH LINE OF SAID SOUTHEAST QUARTER;

THENCE SOUTH 88°35'42" EAST ALONG THE NORTH LINE OF SAID SOUTHEAST QUARTER 2.06 FEET TO THE POINT OF BEGINNING;

TOGETHER WITH THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON LYING SOUTHERLY OF THE SOUTHERLY RIGHT-OF-WAY LINE OF 104TH STREET EAST CONVEYED TO THE CITY OF BONNEY LAKE BY DEED RECORDED UNDER RECORDING NUMBER 9502080305;

TOGETHER WITH LOTS 4 AND 5 OF PIERCE COUNTY LARGE LOT SUBDIVISION, FILED UNDER AUDITOR NUMBER 1590, DATED JANUARY 19, 1977;

TOGETHER WITH THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 19 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN, LYING WESTERLY OF 199TH AVE. CT. EAST;

EXCEPT THOSE PORTIONS THEREOF CONVEYED TO PIERCE COUNTY BY DEEDS RECORDED UNDER RECORDING NUMBERS 9807270722 AND 9807270723;

EXCEPT THAT PORTION THEREOF CONVEYED TO THE CITY OF BONNEY LAKE BY DEEDS RECORDED UNDER RECORDING NUMBER 201308290427.

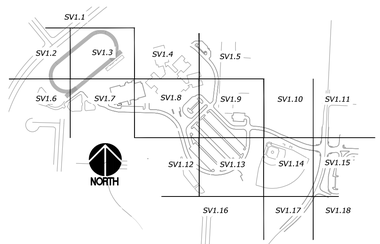
SITUATE IN THE CITY OF BONNEY LAKE, COUNTY OF PIERCE, STATE OF WASHINGTON.

SCHEDULE B EXCEPTIONS

(PER CHICAGO TITLE INSURANCE COMPANY, FILE NO. 250583-TC, DATED 02/24/2025)

* NOT A SURVEY MATTER, DESCRIPTION PROVIDED AS A COURTESY
** CONTENT/DATA WITHIN INSTRUMENT IS INSUFFICIENT TO DETERMINE EXACT LOCATION
*** INSTRUMENT IS BLANKET IN NATURE AND AFFECTS SOME PORTION OF THE SUBJECT PROPERTY
DNA DOES NOT AFFECT THE SUBJECT PROPERTY

EXCEPTION NUMBER	AFN	DESCRIPTION
①	2526750	20 FOOT ELECTRICAL & TELEPHONE EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE, SHOWN HEREON.
②	2526752	20 FOOT WATER PIPELINE EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE, SHOWN HEREON.
③	2531522	20 FOOT TELEPHONE EASEMENT IN FAVOR OF PACIFIC NORTHWEST BELL TELEPHONE COMPANY, SHOWN HEREON.
④	2538122	20 FOOT COMMUNICATION EASEMENT IN FAVOR OF PACIFIC NORTHWEST BELL TELEPHONE COMPANY,SHOWN HEREON.
5*	2880103	DEED RESERVING ORES AND MINERALS IN FAVOR OF WEYERHAEUSER REAL ESTATE COMPANY, A WASHINGTON CORP, NOT SHOWN.
5*	9105230436	MODIFICATION AGREEMENT ON MINERAL RESERVATION.
⑥	8112170197	ABLE TV EASEMENT IN FAVOR OF TRIBUNE PUBLISHING COMPANY, A WASHINGTON CORP., D.B.A. CABLE TV PUGET SOUND, SHOWN HEREON
⑦	9105010268	100 FOOT ACCESS & UTILITY EASEMENT SHOWN HEREON IN FAVOR OF HELMUT WALLENFELS, SHOWN HEREON.
8*	9111050170	NO PROTEST AGREEMENT
⑨	9206120645	100 FOOT ACCESS & UTILITY EASEMENT IN FAVOR OF CASCADIA DEVELOPMENT CORP., A WASHINGTON CORP., SHOWN HEREON.
⑩	9308040341	EASEMENT IN FAVOR OF PUGET SOUND POWER & LIGHT: RIGHT-OF-WAY EASEMENT NO. 1 IS BLANKET IN NATURE AND NOT SHOWN. RIGHT-OF-WAY EASEMENT NO. 2 HAS BEEN SHOWN.
⑪	9712190101	20 FOOT UTILITY EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE, SHOWN HEREON.
⑫	9907120357	15 FOOT WATER EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE, SHOWN HEREON.
13*	200206030751	NOTE REGARDING DEVELOPER AGREEMENT
14*	200206030752	NOTE REGARDING BONNEY LAKE ANNEXATION
15	200305120525	EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE TO DISCHARGE STORMWATER OVER TRACT 'A' & 'B' OF THE PLAT BONNEY LAKE MANOR, A.F.N. 9207010322 HAS BEEN SHOWN.
⑯	201912260475	15 FOOT WATER EASEMENT IN FAVOR OF THE CITY OF BONNEY LAKE, SHOWN HEREON.
17*	202501280279	NOTE REGARDING FEDERAL INTEREST IN PROPERTY
18-21*	N/A	NOT SURVEY MATTERS



REVISIONS

APPROVALS
DESIGNED --
DRAWN KPQ
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL: SCHILLING, WASHINGTON, 19853, REGISTERED PROFESSIONAL LAND SURVEYOR, PRELIMINARY

PREPARED BY
sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR
SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
SITE OVERVIEW AND SURVEY CONTROL

SHEET NO.
SV1.0

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.0.dwg last edited: 01/26/26 11:08am by: sstilling1

TPN'7000700080'
THOMPSON CHRISTOPHER J & KERSTIN C

TPN'7000700120'
SZARKO NICOLE & LUIS

SPIRAEA GLEN DIV. I
A.F.N.9604050391

TPN'7000700130'
CHARRON VALLAN T & CHARRON LISA M CO-TTEE

TPN'7000700140'
GALINDO DOMINIC

TPN'0519044028'
SUMNER SCHOOL DISTRICT NO. 320

104TH ST. E.

R=1000.00' L=337.08'
Δ=19°18'48"

R=950.00' L=320.23'
Δ=19°18'48"

15' PUGET SOUND POWER AND LIGHT EASEMENT PER A.F.N. 9307080891

35' PUGET SOUND POWER AND LIGHT EASEMENT PER A.F.N. 9206240341

15' WATER EASEMENT PER AFN 201912260475

MAG NAIL #85
N: 670885.98
E: 1224756.15
EL: 630.84

MAG NAIL #83
N: 670767.76
E: 1224808.17
EL: 633.74

STORM CATCH BASIN
TYPE I
RIM=629.25
IE=626.86, 12" DI SW

STORM CATCH BASIN
TYPE I
RIM=629.14
IE=626.74, 12" DI NE
IE=626.80, 12" DI SW

STORM CATCH BASIN
TYPE I (SOLID LID)
RIM=629.89
IE=626.72, 12" DI NE
IE=626.49,M 12" CPP SW

STORM CATCH BASIN
TYPE I
RIM=636.16
IE=633.43, 8" CPP NE
IE=633.93, 6" PVC SE
IE=633.41, 12" DI SW

STORM TRENCH DRAIN
S. RIM=637.13
BOT. EL=636.55
N. RIM=637.12
BOT EL=636.32
VERTICAL PIPE ELBOWS WEST
BOT. ELBOW EL=634.98

STORM CATCH BASIN
TYPE I
RIM=636.47
IE=635.02, 8" CPP NW

YARD DRAIN
RIM=629.17
IE=628.36, 6" PVC W

CULVERT
IE=633.13, IE" 12

100' FOOT WIDE ACCESS AND UTILITY EASEMENT PER A.F.N. 9106100268

70' QUIT CLAIM DEED PER A.F.N. 9506080305

N50°42'28"E 463.38'

N50°42'28"E 524.04'

"BUSSES ONLY 6:30AM-3:30PM"

"EXIT ONLY"

"NO PARKING"

"STOP"

GATE

GATE STAY

6' CHAIN LINK FENCE

ECOBLOCK WALL

MATCHLINE - SV1.1

MATCHLINE - SV1.3

SV1.3

SV1.4

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ROOF DRAIN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER VAULT
- WATER BLOW OFF
- IRRIGATION CONTROL VALVE
- WATER FOUNTAIN
- GAS VALVE
- TRAFFIC SIGNAL ARM
- JUNCTION BOX
- POWER VAULT
- LIGHT POLE
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- POWER TRANSFORMER
- BOLLARD
- GATE POST
- TELEPHONE RISER
- COMMUNICATIONS MANHOLE
- SIGN
- FLAG POLE
- DECIDUOUS TREE
- EVERGREEN TREE
- TPN TAX PARCEL NUMBER
- BOUNDARY LINE
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- SECTION LINE
- ROAD CENTERLINE
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- SANITARY SEWER LINE
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- BURIED GAS LINE
- BURIED POWER LINE
- BURIED TELECOM. LINE
- OVERHEAD POWER LINE
- RECORD STORM DRAIN LINE
- CHAIN LINK FENCE
- HAND RAIL
- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE

SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18

REVISIONS

APPROVALS
DESIGNED --
DRAWN KPO
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF WASHINGTON
SCHILLING
PRELIMINARY

PREPARED BY
sh sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
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SUMNER, WA 98390
(253)-891-6305

PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.1

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.dwg last edited: 02/20/26 11:55am by: Dsteck

TPN"7000700260"
GROAT DAVID & GROAT HOLLY A TTEES OF GROAT REVOCABLE TRUST

MATCHLINE - SV1.1

MATCHLINE - SV1.2

SPRINGWOOD DR. E.

N39°17'32"W 241.00'

100' FOOT WIDE ACCESS AND UTILITY EASEMENT PER A.F.N. 9106010268
100' FOOT WIDE ACCESS AND UTILITY EASEMENT PER A.F.N. 9206120645

N50°42'28"E 463.38'

104TH ST. E.

STORM CATCH BASIN
TYPE I (SOLID LID)
RIM=627.37
IE=624.61, 12" CPP NE
IE=624.55, 12" CPP SW

CULVERT
IE=624.38, IE" 12"CPP

STORM MANHOLE
TYPE II
RIM=640.29
IE=629.82, 12" CPP E
IE=632.49, 12" CPP S
IE=629.64, 12" CPP W
LADDER NORTH

FOUND 2" BRASS DISK W/ PUNCH,
IN CASE, DOWN 0.2±
(10/02/2025)

N50°42'28"E 60.90

192ND AVE E.

TPN"7000700270"
POPE THOMAS J

TPN"7000700290" GOMEZ
ALEXZANDER N & KARLA M

SPIRAEA GLEN DIV. I
A.F.N.9604050391

70' QUIT CLAIM DEED
PER A.F.N. 9202060035

35' PUGET SOUND POWER AND LIGHT
EASEMENT PER A.F.N. 9308040347

15' PUGET SOUND POWER AND LIGHT
EASEMENT PER A.F.N. 9207080891

R=1000.00' L=609.36'
Δ=34°54'49"

6' CHAIN LINK FENCE

"SCHOOL ACTIVITIES"

RAMP

GATE

MAG NAIL #33
N: 670466.18
E: 1224456.705
EL: 645.22

TPN"0519044027"
SUMNER SCHOOL DISTRICT NO. 320

TPN"7000700300" BULLOCK
JOHN C & PATRICIA M

STORM TRENCH DRAIN
RIM=644.82
EL=644.11, E&W BOT. STRUCT
EL=643.59, MID. BOT. STRUCT (STEP-DOWN)
IE=643.82, 6" CPP SE

RUBBER SURFACE

MATCHLINE - SV1.2
MATCHLINE - SV1.3
MATCHLINE - SV1.6

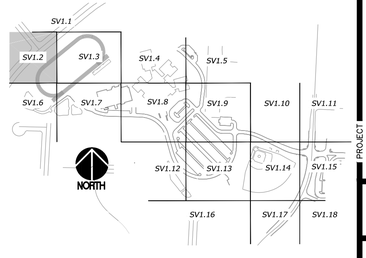
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- SANITARY SEWER MANHOLE
- STORM MANHOLE
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- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE



REVISIONS

APPROVALS
DESIGNED —
DRAWN KPO
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
DANIEL M. SITTS
WASHINGTON
PRELIMINARY

PREPARED BY
sh sitts&hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
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PROJECT
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BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.2

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.2.dwg last edited: 01/26/26 12:42pm by: sshilling

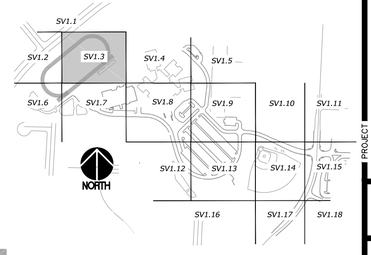
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
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- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE



REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPQ
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL

SCHILLING REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF WASHINGTON DOUGLAS M. HILL 18893

PRELIMINARY

PREPARED BY

sh sitts & hill

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4615 CENTER STREET | TACOMA, WA 98409
PHONE (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.3

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.3.dwg last edited: 01/26/26 12:41pm by: sdittsgd

MATCHLINE - SV1.3

MATCHLINE - SV1.4

6" MAPLE

SANITARY MANHOLE
TYPE II
RIM=649.85
IE=637.18, 8" PVC N
IE=637.23, 8" PVC S
IE=637.25, 8" PVC SW

15' WATER EASEMENT PER AFN 201912260475

5" MAPLE

6" MAPLE

5" MAPLE

10" CEDAR
8" CEDAR
8" CEDAR
7" CEDAR
9" CEDAR
7" CEDAR
6" CEDAR
6" CEDAR
6" CEDAR
7" CEDAR
7" CEDAR
6" CEDAR
7" CEDAR
6" CEDAR
6" CEDAR
7" CEDAR
6" CEDAR
5" CEDAR
7" CEDAR
6" CEDAR
6" CEDAR
7" CEDAR
6" CEDAR
6" CEDAR
8" CEDAR
8" CEDAR
10" CEDAR
9" CEDAR
10" CEDAR
9" CEDAR
12" CEDAR
11" CEDAR
9" CEDAR

6" MAPLE

11" MAPLE

10" MAPLE

MAG NAIL #35
N: 670616.82
E: 1225338.70
EL: 654.53

9" MAPLE

11" MAPLE

12" MAPLE

11" MAPLE

STORM DRAIN CATCH BASIN
TYPE II
RIM=654.44
IE=649.19, 8" CPP E
IE=649.19, 8" CPP S
IE=648.97, 12" CPP W
LADDER N

15' WATER EASEMENT PER AFN 201912260475

6" CEDAR
15" CEDAR
18" CEDAR
16" CEDAR
2-10" CEDAR
13" CEDAR
14" CEDAR
9" CEDAR
2-10" CEDAR
13" CEDAR
8" CEDAR
6" CEDAR
2-13" CEDAR
8" CEDAR
16" CEDAR
11" CEDAR
8" CEDAR
11" CEDAR
9" CEDAR
2-6" CEDAR

STORM DRAIN CATCH BASIN
RIM=658.54
IE=653.29, 8" CPP E
IE=653.34, 8" CPP SE
IE=653.07, 12" CPP W

"NO PARKING"

"NO PARKING"

"NO

11" MAPLE

UTILITY CLEANOUT
RIM=654.98
UTILITY CLEANOUT
RIM=655.00
UTILITY CLEANOUT
RIM=655.13

9" MAPLE

UTILITY CLEANOUT
RIM=655.24

METAL STEPS TO OVERHANGING BALCONY

EXISTING BONNEY LAKE HIGH SCHOOL

"CHILD ACCESS"

4' CHAIN LINK FENCE ON CONC. WALL

5" MAPLE

"HC PARKING"

"STUDENT ENTRANCE"

SCRIBE #82
N: 670541.49
E: 1225062.86
EL: 653.61

6" CEDAR

STORM DRAIN CATCH BASIN
TYPE I
RIM=653.61
IE=650.47, 8" PVC SE
IE=650.45, 8" PVC SW

9" MAPLE

BRICK COLUMN (TYP.)

UTILITY CLEANOUT
RIM=653.73

UTILITY CLEANOUT
RIM=653.70

PERFORMING ARTS CENTER

F.F.=655.72

CONC. WALL W/ HAND RAIL

STORM DRAIN CATCH BASIN
TYPE I (SOLID-LID)
RIM=655.40
IE=650.48, 8" CMP NW
IE=650.60, 8" CMP SE
IE=651.00, 6" PVC SW

STORM DRAIN CATCH BASIN
TYPE I
RIM=654.83
IE=653.55, 6" PVC NE

STORM DRAIN CATCH BASIN
TYPE I
RIM=654.59
IE=650.66, 8" CMP NW
IE=650.76, 8" CMP SE

F.F.=655.74

7" CEDAR

TPN"0519044027"
SUMNER SCHOOL DISTRICT NO. 320

SANITARY MANHOLE
RIM=654.20
IE=642.85, 8" PVC N
IE=642.88, 6" DI SW
LADDER E

STORM DRAIN CATCH BASIN
TYPE I
RIM=654.24
IE=651.84, 6" PVC NE
IE=651.79, 6" PVC SW
IE=651.79, 8" PVC NW

STORM DRAIN CATCH BASIN
TYPE I
RIM=654.30
IE=652.25, 6" PVC NW
IE=652.00, 8" CMP NE
IE=652.00, 8" CMP SW

SCRIBE #52
N: 670353.14
E: 1225129.01

SCRIBE #53
N: 670336.88
E: 1225081.68

MATCHLINE - SV1.3

MATCHLINE - SV1.8

MATCHLINE - SV1.4

MATCHLINE - SV1.5

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
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- SANITARY SEWER MANHOLE
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SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18

NORTH

REVISIONS

APPROVALS
DESIGNED --
DRAWN KPO
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
DANIEL M. SCHILLING
WASHINGTON
PRELIMINARY

PREPARED BY
sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR
SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPOGRAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.4

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.4.dwg last edited: 01/26/26 12:41pm by: eskillingd

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ROOF DRAIN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER VAULT
- WATER BLOW OFF
- IRRIGATION CONTROL VALVE
- WATER FOUNTAIN
- GAS VALVE
- TRAFFIC SIGNAL ARM
- JUNCTION BOX
- POWER VAULT
- LIGHT POLE
- UTILITY VAULT
- POWER TRANSFORMER
- BOLLARD
- GATE POST
- TELEPHONE RISER
- COMMUNICATIONS MANHOLE
- SIGN
- FLAG POLE
- DECIDUOUS TREE
- EVERGREEN TREE
- TPN TAX PARCEL NUMBER
- BOUNDARY LINE
- LOT LINE
- SECTION LINE
- ROAD CENTERLINE
- STORM DRAIN LINE
- SANITARY SEWER LINE
- BURIED WATER LINE
- BURIED GAS LINE
- BURIED POWER LINE
- BURIED TELECOM. LINE
- OVERHEAD POWER LINE
- RECORD STORM DRAIN LINE
- CHAIN LINK FENCE
- HAND RAIL
- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE

SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18 NORTH

REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPO
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL

SCHILLING SURVEYING COMPANY — WASHINGTON — 19883 — REGISTERED PROFESSIONAL LAND SURVEYOR

PRELIMINARY

PREPARED BY

sitts & hill

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4615 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
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PREPARED FOR

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1202 WOOD AVENUE
SUMNER, WA 98390
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PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPOGRAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.5

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.5.dwg last edited: 01/26/26 12:41pm by: sshilling

MATCHLINE - SV1.2

MATCHLINE - SV1.6

MATCHLINE - SV1.6

MATCHLINE - SV1.7

TRACT 'C'
STORM DETENTION
TPN'7000700460'
BONNEY LAKE CITY OF

192ND AVE E.

70' QUIT CLAIM DEED
PER A.F.N. 9502080305

Δ=34°07'14"
R=950.00'
L=565.74'

R=950.00' L=565.74'
Δ=34°07'14"

R=1000.00' L=609.36'
Δ=34°54'49"

192ND AVE E.

6' CHAIN LINK FENCE

TPN'0519044027'
SUMNER SCHOOL DISTRICT NO. 320

15'

"SS AND UTILITY EASEMENT PER A.F.N. 9105010268
"SS AND UTILITY EASEMENT PER A.F.N. 9206120645

35' PUGET SOUND POWER AND LIGHT
EASEMENT PER A.F.N. 9308040341

PUGET SOUND POWER AND LIGHT
EMENT PER A.F.N. 9307080991

6' CHAIN LINK FENCE

STORM DRAIN MANHOLE
TYPE II
RIM=618.94
IE=610.39, 12"CPP NE
IE=610.34, 12"CPP SW
LADDER NW

TPN'7000220380'
COURTNEY WESLEY P & ALISA D

BONNEY LAKE MANOR
AFN 9207010322

STORM DRAIN CATCH BASIN
TYPE I
RIM=643.30
IE=641.45, 6" PVC NE

LONG JUMP PIT

STORM TRENCH DRAIN
RIM=644.89

STORM TRENCH DRAIN
RIM=644.85
EL=644.25, N. BOT STRUCT.
EL=644.20, N. BOT. STRUCT. (STEP-DOWN)
EL=644.15, S. BOT. STRUCT. (STEP-DOWN)
EL=644.13, S. BOT STRUCT.
IE=643.85, 6" CPP NE

SCOREBOARD

RUBBER SURFACE

CULVERT
IE=627.93, 12" CPP

3' CHAIN LINK FENCE

STORM YARD DRAIN
RIM=644.63
IE=641.43, 6" PVC SE
IE=641.43, 6" PVC NW

EDGE OF WATER

1.5' KEYSTONE WALL

6' CHAIN LINK FENCE

STORM DRAIN CATCH BASIN
TYPE I
RIM=644.55
IE=641.15, 6" PVC NW
IE=641.15, 8" CPP SE
IE=641.36, 6" PVC S

LONG JUMP PIT

CONC. CURB

INFILTRATION POND

CULVERT
IE=635.31, 12" CPP

CULVERT
IE=627.78, 12" CPP

CULVERT
IE=629.68, 15" CPP

EDGE OF WATER

GATE

0.65' KEYSTONE WALL

STORM DRAIN MANHOLE
TYPE II
RIM=637.91
IE=634.36, 12" CPP NE
IE=627.58, 12" CPP NE
IE=627.66, 12" CMP CROSS PIPE (GATED END)
EL=635.76, TOP CROSS PIPE
EL=634.56, TOP 6" DOWN-ELBOW PIPE (OFF VERTICAL CROSS-PIPE)
EL=633.46, BOT. 6" DOWN-ELBOW PIPE

STORM DRAIN MANHOLE
TYPE II
RIM=621.39
IE=617.99, 12"CPP E
IE=612.42, 12" CPP SW
LADDER N

TPN'0519044027'
SUMNER SCHOOL DISTRICT NO. 320

STORM DRAIN CATCH BASIN
TYPE II
RIM=645.11
IE=639.78, 15"CMP E
IE=639.49, DOWNTURNED 15" CMP W
LADDER S

CULVERT
IE=641.77, 15" CPP

1845.78' (1845.93' D)
N88°31'53"W 1861.40'

108TH ST. E.

FOUND 3" BRASS SURFACE DISK,
W/ "X"
(2/10/2025)

N88°30'57"W 204.91' (M)
(205.00 PLAT)

FOUND 3" BRASS SURFACE DISK,
W/ "X"
(2/10/2025)

FOUND 3" BRASS SURFACE DISK,
NO MARKS, MEASURED IN CENTER
(2/10/2025)

30.20'

193RD AVE E.

BONNEY LAKE MANOR
AFN 9207010322

BONNEY LAKE MANOR
AFN 9207010322

NORTH

HORIZONTAL SCALE: 1"=20'
20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
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- SANITARY SEWER MANHOLE
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- BRICK/PAVER SURFACE
- STEEL DECK SURFACE

SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18 NORTH

REVISIONS

APPROVALS
DESIGNED --
DRAWN KPO
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
DAVID M. SCHILLING
WASHINGTON
PRELIMINARY

PREPARED BY
sitts & hill
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PREPARED FOR
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SUMNER, WA 98390
(253)-891-6305

PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPOGRAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.6

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.6.dwg last edited: 01/26/26 12:41pm by: sstiffingd

MATCHLINE - SV1.3

MATCHLINE - SV1.7

MATCHLINE - SV1.6

MATCHLINE - SV1.8

STORM TRENCH DRAIN
RIM=644.79
EL=644.07, E&W BOT. STUCT.
EL=643.42, MID. BOT. STRUCT.
(STEP-DOWN)
IE=643.79, 6" CPP NW

STORM TRENCH DRAIN
W. RIM=645.18
EL=644.49, BOT. STRUCTURE
EL=643.85, 4" VERICAL PVC,
BENDS TO SOUTH

STORM CATCH BASIN
TYPE I – SOLID LID
RIM=645.42
IE=639.69, 8" PVC NE
IE=639.68, 8" PVC SE
IE=639.91, 8" PVC NW

STORM CATCH BASIN
TYPE II – SOLID LID
RIM=645.51
IE=639.71, 4" PVC N
IE=639.32, 8" PVC N
IE=639.29, 6" PVC SE
IE=641.85, 6" PVC SW
LADDER SE

MAG NAIL #81
N: 670288.66
E: 1224685.95
EL: 645.05

"NO PARKING"
EMERGENCY ONLY"

101' - 6" (V-S) CHAIN LINK FENCE

COVERED BLEACHERS

RAMP

GATE

F.F.=645.3

EXISTING BUILDING

F.F.=645.60

GATE

GATE

UTILITY CLEANOUT
RIM=645.62

UTILITY CLEANOUT
RIM=645.72

UTILITY CLEANOUT
RIM=645.58

UTILITY CLEANOUT
RIM=645.60

36" F.F.=645.91

STORM YARD DRAIN
RIM=644.84
IE=644.03, 6" PVC NE

T.B.M. #32
MAG 670250.58
N: 670250.58
E: 1224633.02
EL: 645.18

3' CHAIN LINK FENCE

6' CHAIN LINK FENCE

EDGE OF WATER

STORM CATCH BASIN
TYPE I
RIM=645.29
IE=640.39, 6" PVC NE (FILLED)
IE=640.43, 8" PVC SE
IE=643.12, 6" PVC SW
IE=643.73, 4" PVC NW

STORM YARD DRAIN
RIM=645.06
IE=643.51, 6" PVC NE
IE=643.58, 6" PVC SW

WET POND

RETENTION POND

CULVERT (RECORD)
NOT FOUND AT TIME OF SURVEY

CULVERT
IE=641.65, 15" CPP"

EDGE OF WATER

STORM DRAIN CATCH BASIN
TYPE II
RIM=650.49
IE=646.36, 6" PVC E
IE=638.36, 15" PVC NE
IE=638.47, 6"± W

STORM DRAIN CATCH BASIN
TYPE II (PIPES SUBMERGED)
RIM=650.54
IE=637.94, 16"± ? NE
IE=638.14, 14"± ? SE
IE=637.21, 24"± ? SW
LADDER NW

11" SW

10" PINE

PER BONNEY LAKE FILE NO.
2001-31

"NO PARKING"

MAG NAIL #31
N: 670100.93
E: 1224843.60
EL: 651.65

6' CHAIN LINK FENCE

STORM DRAIN CATCH BASIN
TYPE II
RIM=651.26
IE=647.68, 6"PVC NE
IE=641.89, 12"CPP E
IE=641.81, 12"CPP NW
LADDER S

SCRIBE #80
N: 670268.21
E: 1224819.57
EL: 651.96

YARD BASIN
TYPE I
RIM=652.54
IE=649.70, 6" PVC NE
IE=649.71, 6" PVC E
IE=649.70, 6" PVC W

STORM CATCH BASIN
TYPE I
RIM=653.08
IE=650.30, 6" PVC E
IE=650.30, 6" PVC S

SCRIBE #54
N: 670309.18
E: 1224977.62
EL: 653.22

STORM CATCH BASIN
TYPE I
RIM=653.06
IE=650.71, 6" PVC N
IE=650.71, 6" PVC S
IE=650.73, 6" PVC W

IE=650.12, 8" PVC NE

36"

"NO PARKING"

15' WATER EASEMENT PER
AFN 201912260475

"NO PARKING
BETWEEN ARROWS"

BRICK COLUMN (TYP.)

"HC PARKING"

ELEVATED
WALKWAY

"PARK IN DESIGNATED
AREAS"

EXISTING
BONNEY LAKE HIGH SCHOOL
F.F.=653.70

UTILITY CLEANOUT
RIM=653.17

"NO PARKING"

YARD DRAIN
RIM=652.56
IE=650.74, 6"PVC NE
IE=650.74, 6"PVC SE
IE=650.74, 6"PVC SW

STORM DRAIN MANHOLE
TYPE II
RIM=653.10
IE=643.06, 12"CPP E
IE=643.02, 12"CPP W
LADDER SE

"NO
PARKING"

SCRIBE #75
N: 670077.69
E: 1224979.61
EL: 653.10

15' WATER EASEMENT PER
AFN 201912260475

STORM CATCH BASIN
TYPE II
RIM=651.95
IE=643.86, 12"CPP E
IE=643.71, 12"CPP W
LADDER S

TPN"7000220910"
BROWN BRANDON & ASHLEY

TPN"7000030070"
ALLAN PHILIP D & SUZI I

TPN"7000030080"
PONOMARENKO TARAS & OLENA

TPN"7000030090"
SUCHOWER MICHAEL S

FOUND 1/2" REBAR AND CAP
"LS 20847"
(3/4/2025)

FOUND 1/2" REBAR AND CAP
"LS 20847"
(3/4/2025)

COUNTRY HIGHLANDS DIV. II
A.F.N.8910050251

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

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- SURVEY CONTROL POINT, AS NOTED
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- WOOD FENCE
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- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE

SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18

NORTH

REVISIONS

APPROVALS
DESIGNED — KPQ
DRAWN — DMS/STT
CHECKED — 02/20/2026
DATE — AS NOTED
SCALE

SEAL
SCHILLING SURVEY
WASHINGTON
REGISTERED PROFESSIONAL LAND SURVEYOR
PRELIMINARY

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PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.7

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.7.dwg last edited: 01/26/26 2:02pm by: sshilling

SCRIBE #53
N: 670336.88
E: 1225081.68

MATCHLINE - SV1.3

MATCHLINE - SV1.8

MATCHLINE - SV1.7

MATCHLINE - SV1.8

GAS METER

GENERATOR

UTILITY CLEANOUT
RIM=653.01

UTILITY CLEANOUT
RIM=652.32

GREASE TRAP (6'X12' VAULT)
NW RIM=652.20
IE=649.03, 6" PVC TEE-PIPE NW
EL=650.60, TOP PIPE
EL=643.71, BOT PIPE
MID RIM=652.19
IE=645.73, 6" PVC TEE-PIPE
THROUGH CONC. DIVIDER
SE RIM=652.19
IE=649.50, 4" PVC TEE-PIPE SE
EL=650, TOP PIPE
EL=643.50±, BOT PIPE

STORM CATCH BASIN
TYPE I
RIM=652.40
IE=649.33, 6" PVC SE

STORM CATCH BASIN
TYPE I
RIM=652.01
IE=648.18, 6" PVC N
IE=647.03, 6" PVC E
IE=648.01, 8" CPP S

STORM CATCH BASIN
TYPE I
RIM=651.67
IE=646.69, 8" CPP N
IE=647.12, 6" PVC E
IE=646.72, 8" CPP S
IE=647.19, 6" PVC W

YARD DRAIN
RIM=652.86
IE=650.56, 6" PVC NE
IE=650.52, 6" PVC NW

UTILITY CLEANOUT
RIM=652.66

LOADING DOCK

DUMPSTER PAD

UTILITY CLEANOUT
RIM=652.13

STEEL RAMP OVER STEPS
FOR DUMPSTER USE

YARD DRAIN
RIM=654.26
IE=650.45, 6" PVC NE
IE=650.42, 6" PVC SW

YARD DRAIN
RIM=654.40
IE=651.29, 6" PVC SE
IE=651.29, 6" PVC NW

SCRIBE #93
N: 670184.99
E: 1225260.11
EL: 655.60

BENCH

F.F.=655.64

MAG NAIL #76
N: 670160.68
E: 1225157.47
EL: 652.85

YARD DRAIN
RIM=653.86
IE=651.51, 6" PVC SE
COLUMN (TYP.)

TRASH CAN

SCRIBE #92
N: 670164.34
E: 1225245.19
EL: 654.69

YARD DRAIN
RIM=655.49
EL=654.59, SECOND GRATE LID,
NO ACCESS

8' CHAIN LINK FENCE

GATE

YARD DRAIN
RIM=654.16
IE=650.60, 6" PVC SE
IE=650.60, 6" PVC W

15' WATER EASEMENT PER AFN 201912260475

8.5' WALL

"STAFF SERVICE ONLY"

GRASS

UTILITY CLEANOUT
RIM=653.61

SCRIBE #30
N: 670099.45
E: 1225108.94
EL: 653.58

STORM CATCH BASIN
TYPE II
RIM=652.36
IE=645.96, 8"CPP N
IE=645.67, 8"CPP E
IE=645.38, 12"CPP W
IE=646.06, 6"PVC NW
LADDER S

STORM MANHOLE
TYPE II
RIM=652.52
IE=644.36, 12"CPP E
IE=644.41, 12"CPP W
LADDER S

STORM MANHOLE
TYPE II
RIM=653.12
IE=644.80, 12" CPP SE
IE=645.13, 12" CPP W

YARD DRAIN
RIM=654.01
IE=651.17, 6" PVC NE
IE=651.17, 6" PVC SW

STORM CATCH BASIN
TYPE I
RIM=652.92
IE=648.96, 6" PVC NE
IE=649.00, 8" CPP SE
IE=648.88, 8" CPP W

STORM CATCH BASIN
RIM=654.13
IE=650.05, 6" PVC NE
IE=649.73, 6" PVC SW
IE=650.26, 6" PVC NW

STORM CATCH BASIN
TYPE I
RIM=654.08
IE=651.29, 8" CPP NE
IE=651.18, 8" CPP NW

STORM MANHOLE
TYPE II
RIM=654.53
IE=645.31, 12" CPP S
IE=645.41, 12" CPP NW
LADDER SW

TPN'7000030100'
MARTINSON SAMUEL A & BRYNNE A

60' ROADWAY RESERVE PER AFN 8910050251

TPN'7000030110'
COX JUSTIN & LAUREN

MATCHLINE - SV1.8

MATCHLINE - SV1.12

YARD DRAIN
RIM=654.72
IE=653.42, 6" PVC SE
IE=653.32, 6" PVC N

YARD DRAIN
RIM=654.49
IE=653.32, 6" PVC N
IE=653.27, 6" PVC E
IE=653.22, 6" PVC S

EXISTING
BONNEY LAKE HIGH SCHOOL

UTILITY CLEANOUT
RIM=669.56

YARD DRAIN
RIM=669.27
IE=665.44, 6" PVC SE
IE=665.48, 6" PVC NW

SCRIBE #62
N: 670226.98
E: 1225404.36
EL: 669.32

F.F.=669.71

BONNEY LAKE HIGH SCHOOL
MONUMENT SIGN

YARD DRAIN
RIM=656.22
IE=655.39, 6" PVC SW

STORM CATCH BASIN
TYPE II
RIM=667.40
IE=663.53, 6" CPP NE
IE=658.18, 8" CPP SW
IE=663.51, 6" PVC NW

BRICK COLUMN (TYP.)

UTILITY CLEANOUT
RIM=669.45

EXISTING
BONNEY LAKE HIGH SCHOOL

CONC. RET. WALL

WOOD BENCH
(TYP.)

CONC. STEPS

UTILITY CLEANOUT
RIM=668.83

STORM CATCH BASIN
TYPE I
RIM=654.97
IE=651.40, 6" PVC NE
IE=651.13, 6" PVC SW
IE=650.94, 6" PVC NW

RAMP W/ HAND RAIL

RAMP W/ HAND RAIL

CONC. WALL

CONC. WALL

KEYSTONE RET. WALL

CONC. STEPS

UTILITY CLEANOUT
RIM=668.46

UTILITY CLEANOUT
RIM=668.92

UTILITY CLEANOUT
RIM=669.10

SCRIBE #58
N: 670197.88
E: 1225492.35
EL: 668.13

SCRIBE #63
N: 670187.95
E: 1225439.98
EL: 668.61

SCRIBE #65
N: 670123.72
E: 1225390.22
EL: 668.68

T.B.M. #29
SCRIBE
N: 670029.98
E: 1225445.16
EL: 669.56

"NO PARKING"

"NO PARK"

"HONORED STAFF"

"VAN ACCESSIBLE PARKING"

10" CEDAR

8" CEDAR

6" CEDAR

5" CEDAR

9" CEDAR

11" CEDAR

2-8" CEDAR

9" MAPLE

6" MAPLE

20" FIR

22" FIR

13" FIR

23" FIR

15" FIR

10" FIR

19" FIR

25" FIR

16" FIR

27" FIR

36" COTT

28" FIR

31" CEDAR

3-8" CEDAR

25" CEDAR

37" COTT

7" COTT

8" ALDER

2-6" ALDER

2-10" ALDER

13" ALDER

2-6"

6"

24" FIR

9" FIR

13" FIR

11" FIR

12" FIR

8" FIR

7" FIR

6" FIR

3" FIR

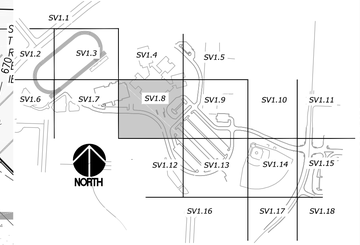
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ROOF DRAIN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER VAULT
- WATER BLOW OFF
- IRRIGATION CONTROL VALVE
- WATER FOUNTAIN
- GAS VALVE
- TRAFFIC SIGNAL ARM
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- BOLLARD
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- DECIDUOUS TREE
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- TPN TAX PARCEL NUMBER
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- CHAIN LINK FENCE
- HAND RAIL
- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE



REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPO
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL

SCHILLING
WASHINGTON
20818
REGISTERED
PROFESSIONAL LAND SURVEYOR
PRELIMINARY

PREPARED BY

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR

SUMNER-BONNEY LAKE
SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.8

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 -- SV1.8.dwg last edited: 01/26/26 2:02pm by: sshilling1

MATCHLINE - SV1.5

MATCHLINE - SV1.9

MATCHLINE - SV1.8

MATCHLINE - SV1.10

MATCHLINE - SV1.13

ELEVATED WALKWAY

STEEL COLUMN

CONC. STEPS

ELEVATED WALKWAY

BRICK COLUMN (TYP.)

SCHOOL

T. WALL

SPEED BUMP

"NO PARKING"

YARD DRAIN (CIRCULAR LID)
RIM=653.97
IE=652.27, 6" PVC N
IE=652.34, 6" PVC S

UTILITY CLEANOUT
RIM=655.41

SCRIBE #57
N: 670273.87
E: 1225631.89
EL: 667.98

YARD DRAIN
RIM=654.00
IE=652.66, 6" PVC N
IE=652.82, 3" PVC E
IE=652.68, 6" PVC W

15' WATER EASEMENT PER AFN 201912260475

SCORE BOARD

YARD DRAIN
RIM=654.32
IE=652.95, 6" PVC E
IE=653.19, 6" PVC W

STORM CATCH BASIN
TYPE I
RIM=667.22
IE=664.95, 8" CPP SW

"WATER MARKER"

STORM CATCH BASIN
TYPE I
RIM=672.05
IE=667.49, 6"PVC SE
IE=667.35, 8"CPP SW

UTILITY CLEANOUT
RIM=669.10

"NO PARKING"

"STOP"

SCHOOL DIRECTORY

"NO PARKING"

SCHOOL DIRECTORY

"STOP"

FOUL POLE

SCRIBE #28
N: 670096.37
E: 1225612.70
EL: 672.50

SCRIBE #28
N: 670096.37
E: 1225612.70
EL: 672.50

"NO PARKING"

"NO PARK"

STORM CATCH BASIN
TYPE I
RIM=671.31
IE=666.30, 8" CPP E
IE=666.22, 8" CPP W

STORM CATCH BASIN
TYPE I
RIM=669.26
IE=665.06, 8" CPP NE
IE=664.99, 8" CPP SW

PARCEL LINE

TPN'0519044013'
SUMNER SCHOOL DISTRICT

PARCEL LINE

TPN'0519044014'
SUMNER SCHOOL DISTRICT

CONC. RET. WALL

6' CHAIN LINK FENCE

OUT-FIELD

IN-FIELD

BULL PEN

DUGOUT

10' CHAIN LINK FENCE

30' CHAIN LINK FENCE BACKSTOP

GATE

F.F.=669.6b

F.F.=678.91

F.F.=679.28

F.F.=678.86

F.F.=679.23

BLEACHERS

KEYSTONE WALL

CONC. WALL

6' BARBED CHAIN LINK FENCE

15' WATER EASEMENT PER AFN 201912260475

STORM CATCH BASIN
TYPE I
RIM=679.06
IE=675.24, 6"PVC NE
IE=675.31, 6"PVC NW

PER BONNEY LAKE FILE NO. 2001-31

YARD DRAIN
RIM=678.53
IE=677.17, 5"PVC S

UTILITY CLEANOUT
RIM=678.98

YARD DRAIN
RIM=679.23
IE=676.16±, 6" CPP NE
IE=677.96, 4" PVC SE
IE=676.16±, 6" CPP SW
IE=676.16±, 6" CPP NW

SCRIBE #27
N: 669948.21
E: 1225859.66
EL: 685.45

SCRIBE #27
N: 669948.21
E: 1225859.66

STORM MANHOLE
TYPE II
RIM=690.54
EL=685.95, BOT. OF STRUCTURE
POSSIBLE SUMP

YARD DRAIN
TYPE I
RIM=678.70
IE=677.43, 6" CPP SW

STORM TRENCH DRAIN
W. RIM=679.25
W. BOT. EL.=678.85
AP RIM=679.75
AP BOT. EL.=679.18
E. RIM=679.76
E. BOT. EL.=679.51

20' UTILITY ESMNT. PER A.F.N. 9712190101
20' CABLE ESMNT. PER A.F.N. 8112170197
20' COMMUNICATIONS ESMNT. PER A.F.N. 2538122
20' POWER ESMNT. PER & TELEPHONE ESMNT. PER A.F.N. 2526750

15' WATER EASEMENT PER AFN 201912260475

SCHOOL DIRECTORY

"NO PARKING"

FOUND 11/2" IRON PIPE DOWN 1.20± (1/13/2023)

4"x4" POST

"NO PARKING"

20' POWER AND TEL. EASEMENT PER A.F.N. 2526750
20' WATER PIPELINE EASEMENT PER A.F.N. 2526752

29" CEDAR

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

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- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE

SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18

NORTH

REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPQ
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL

REGISTERED PROFESSIONAL LAND SURVEYOR
DOUGLAS M. SITTS
CERTIFICATE NUMBER 20134
STATE OF WASHINGTON
PRELIMINARY

PREPARED BY

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.9

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.9.dwg last edited: 01/26/26 15:53pm by: sdallingd

MANHOLE

0.54
5.95, BOT. OF STRUCTURE
LE SUMP
DRAIN

78.70
'.43, 6" CPP SW

MATCHLINE - SV1.9

MATCHLINE - SV1.10

NCH DRAIN
25
=678.85
9.75
.=679.18
76
=679.51

T. PER A.F.N. 9712190101
. PER A.F.N. 8112170197
ESMNT. PER A.F.N. 2538122
PER & TELEPHONE ESMNT.
F.N. 2526750

TER EASEMENT PER
N 201912260475

OUND 1/2" IRON PIPE
OWN 1.20'±
/13/2023)

TPN: 0519033005
SUMNER SCHOOL DIST. NO. 320
"MOUNTAIN VIEW MIDDLE SCHOOL"

15' WATER EASEMENT PER AFN 201912260475

20' POWER AND TEL. EASEMENT PER A.F.N. 2526750
20' WATER PIPELINE EASEMENT PER A.F.N. 2526752

TPN: 7000160510
CITY OF BONNEY LAKE

TPN: 7000160510
CITY OF BONNEY LAKE

20' WATER EASEMENT PER AFN 2526752

15' WATER EASEMENT PER AFN 201912260475

WILDERNESS RIDGE DIVISION TWO AFN: 9112180517

TPN: 7000180730
LAFAYETTE MICHAEL J & MELISSA M

MATCHLINE - SV1.10

MATCHLINE - SV1.11

WILDERNE
DIVI
AFN

TPN: 70
LAFAYETTE MICHA

STOR
RIM=
IE=66

TPN: 7000180720
HAYNES SCOTT E
& HEATHER L

SANITA
RIM=67
IE=655
IE=655
IE=655

PAVER
LANDS
BORDE

SLOPE EA
AFN 2013

6' BARBED CHAIN LINK FENCE

2-6" MAPLE

6' CHAIN LINK FENCE

GATE

15" ALDER

26" FIR

8" FIR

6" MADRONA

20" FIR

24" FIR

16" FIR

7" ALDER

10" ALDER

18" FIR

10" MA

18" FIR

17"

ADDITIONAL RIGHT-

2025 MAPPING LIMITS

ASPHALT

MATCHLINE - SV1.10

MATCHLINE - SV1.14

686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705

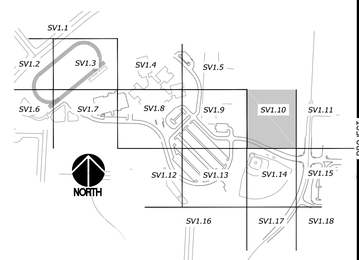
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
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- STORM MANHOLE
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- TPN TAX PARCEL NUMBER
- BOUNDARY LINE
- LOT LINE
- SECTION LINE
- ROAD CENTERLINE
- SD — SD — STORM DRAIN LINE
- SS — SS — SANITARY SEWER LINE
- W — W — W — BURIED WATER LINE
- GAS — GAS — BURIED GAS LINE
- BP — BP — BURIED POWER LINE
- TEL — TEL — BURIED TELECOM. LINE
- OHP — OVERHEAD POWER LINE
- SD — — SD — RECORD STORM DRAIN LINE
- CHAIN LINK FENCE
- HAND RAIL
- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/SAND SURFACE
- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
- STEEL DECK SURFACE



REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPQ
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL

SCHILLING — WASHINGTON — REGISTERED PROFESSIONAL LAND SURVEYOR — PRELIMINARY

PREPARED BY

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
485 S CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0153
http://www.sittshill.com/

PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

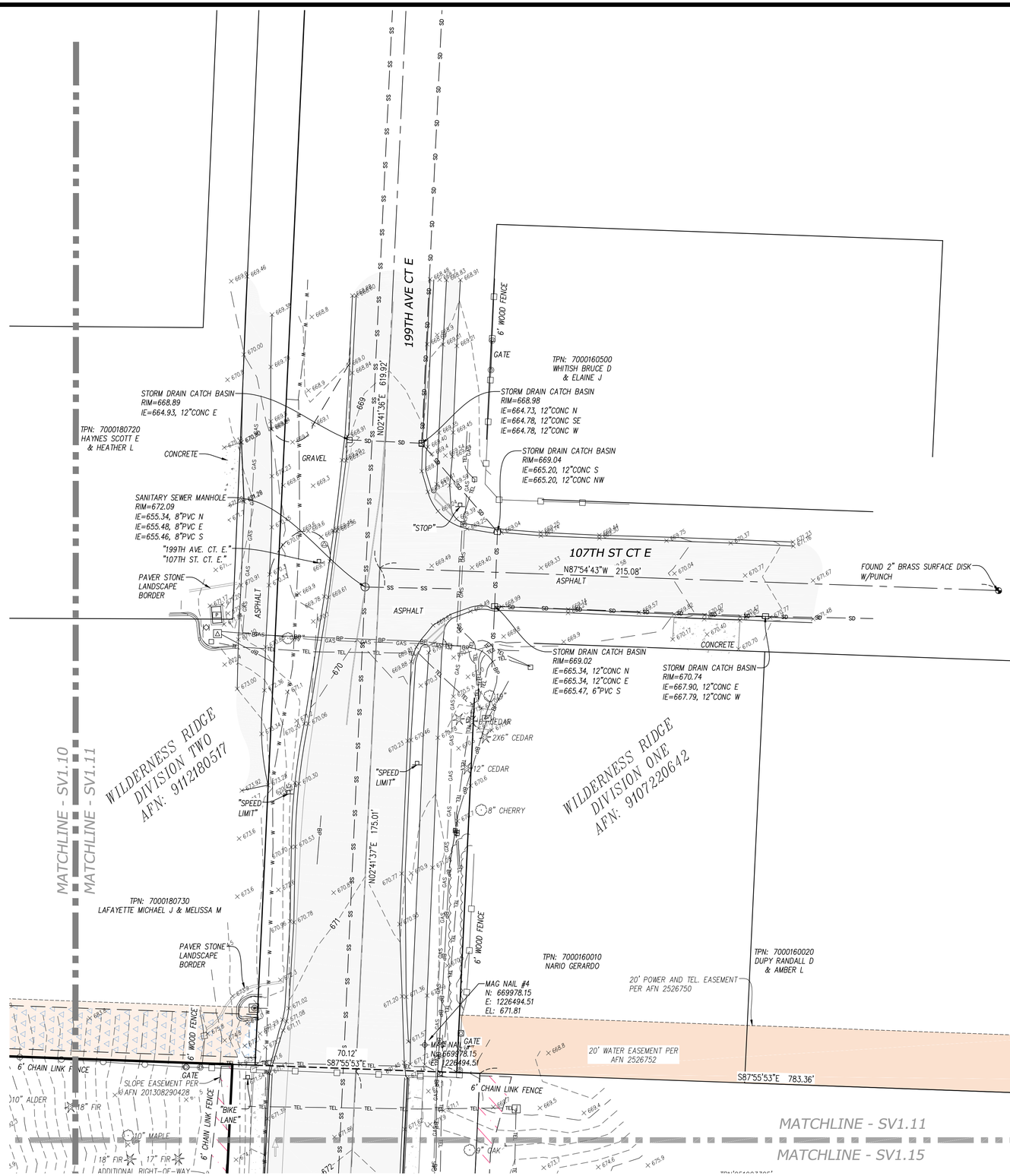
SHEET NO.

SV1.10

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.10.dwg last edited: 01/26/26 2:02pm by: sstilling5



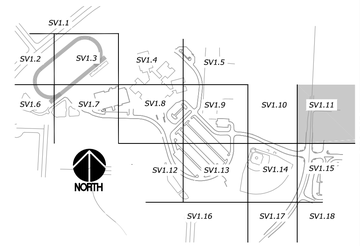
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
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REVISIONS

APPROVALS

DESIGNED	--
DRAWN	KPQ
CHECKED	DMS/STT
DATE	02/20/2026
SCALE	AS NOTED

SEAL: SCHILLING, STEVEN T., 20134, REGISTERED PROFESSIONAL LAND SURVEYOR, STATE OF WASHINGTON — PRELIMINARY

PREPARED BY

sitts & hill

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
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PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.11

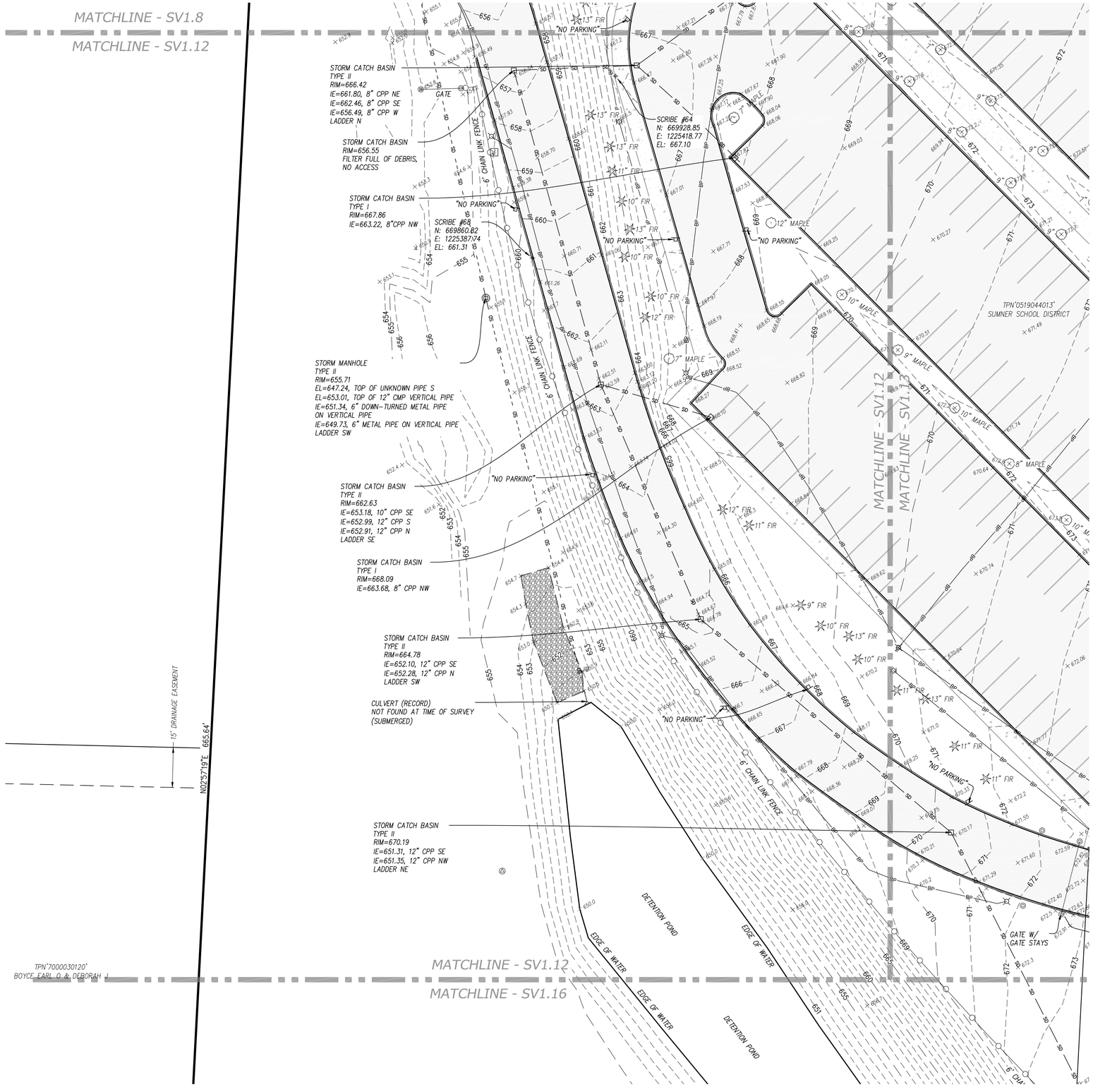
PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.11.dwg last edited: 01/26/26 12:45pm by: sstilling

MATCHLINE - SV1.8

MATCHLINE - SV1.12



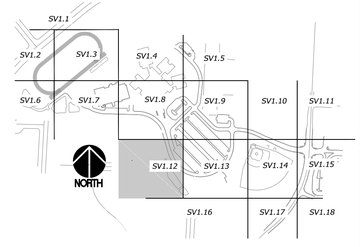
NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

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REVISIONS

APPROVALS

DESIGNED	--
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DATE	02/20/2026
SCALE	AS NOTED

SEAL

REGISTERED PROFESSIONAL LAND SURVEYOR — DOUGLAS M. SCHILLING — WASHINGTON — 19053 — REGISTERED — PRELIMINARY

PREPARED BY

sitts & hill

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY

4815 CENTER STREET | TACOMA, WA 98409

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PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT

1202 WOOD AVENUE

SUMNER, WA 98390

(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL

BUILDING ADDITION TOPORGAPHIC SURVEY

BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEy

SHEET NO.

SV1.12

PROJECT NO.

20818

N:\20800\20818\Drawings\20818 - SV1.12.dwg last edited: 01/26/26 2:02pm by: schilling4

MATCHLINE - SV1.9

MATCHLINE - SV1.13

MATCHLINE - SV1.12

MATCHLINE - SV1.13

TPN'0519044013'
SUMNER SCHOOL DISTRICT

TPN'0519044014'
SUMNER SCHOOL DISTRICT

PARCEL LINE

MAG NAIL #38
N: 669877.19
E: 1225904.69
EL: 684.21

MAG NAIL #39
N: 669946.21
E: 1225859.66
EL: 685.45

MAG NAIL #46
N: 669661.79
E: 1225855.46
EL: 679.18

YARD DRAIN
TYPE I
RIM=681.97
IE=680.12, 6"PVC SW

(3)(6)(7) 20' UTILITY ESMNT. PER A.F.N. 9712190101
20' CABLE ESMNT. PER A.F.N. 8112170197
20' COMMUNICATIONS ESMNT. PER A.F.N. 2538122
20' POWER ESMNT. PER & TELEPHONE ESMNT.
PER A.F.N. 2526750

(7) 15' WATER EASEMENT PER
AFN 201912260475

STORM CATCH BASIN
RIM=678.62
TYPE I
IE=674.50, 6"PVC NE
IE=674.48, 6"PVC S
IE=674.44, 8"CPP SW

STORM CATCH BASIN
TYPE I
RIM=676.14
IE=675.74, 6" PVC N
IE=675.44, 3" PVC S

STORM DRAIN CATCH BASIN
TYPE I
RIM=674.63
IE=670.29, 8"CPP NE
IE=670.48, 8" CPP W

STORM DRAIN TRENCH DRAIN
N. RIM =676.20
S. RIM=676.19
IE=675.91, 2" PVC N

SIGN POST

"STOP"

"NO PARKING"

"BUSSES ONLY"

GATE W/
GATE STAYS

GATE

MEMORIAL

CONC. STEPS

TENNIS COURTS

BLEACHERS

DUGOUT

BATTING CAGE

BULL-PEN

OUT-FIELD

10' CHAIN LINK FENCE

6' CHAIN LINK FENCE

N02°42'02"E 684.42'

MATCHLINE - SV1.13

MATCHLINE - SV1.16

MATCHLINE - SV1.13

MATCHLINE - SV1.14

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ROOF DRAIN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER VAULT
- WATER BLOW OFF
- IRRIGATION CONTROL VALVE
- WATER FOUNTAIN
- GAS VALVE
- TRAFFIC SIGNAL ARM
- JUNCTION BOX
- POWER VAULT
- LIGHT POLE
- UTILITY VAULT
- POWER TRANSFORMER
- BOLLARD
- GATE POST
- TELEPHONE RISER
- COMMUNICATIONS MANHOLE
- SIGN
- FLAG POLE
- DECIDUOUS TREE
- EVERGREEN TREE
- TPN TAX PARCEL NUMBER
- BOUNDARY LINE
- LOT LINE
- SECTION LINE
- ROAD CENTERLINE
- STORM DRAIN LINE
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- BURIED WATER LINE
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- BURIED POWER LINE
- BURIED TELECOM. LINE
- OVERHEAD POWER LINE
- RECORD STORM DRAIN LINE
- CHAIN LINK FENCE
- HAND RAIL
- WOOD FENCE
- ASPHALT SURFACE
- CONCRETE SURFACE
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- RIP-RAP SURFACE
- BRICK/PAVER SURFACE
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SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18

REVISIONS

APPROVALS
DESIGNED --
DRAWN KPO
CHECKED DMS/STT
DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
JAMES D. SCHILLING
WASHINGTON
PRELIMINARY

PREPARED BY
sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
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PREPARED FOR
SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

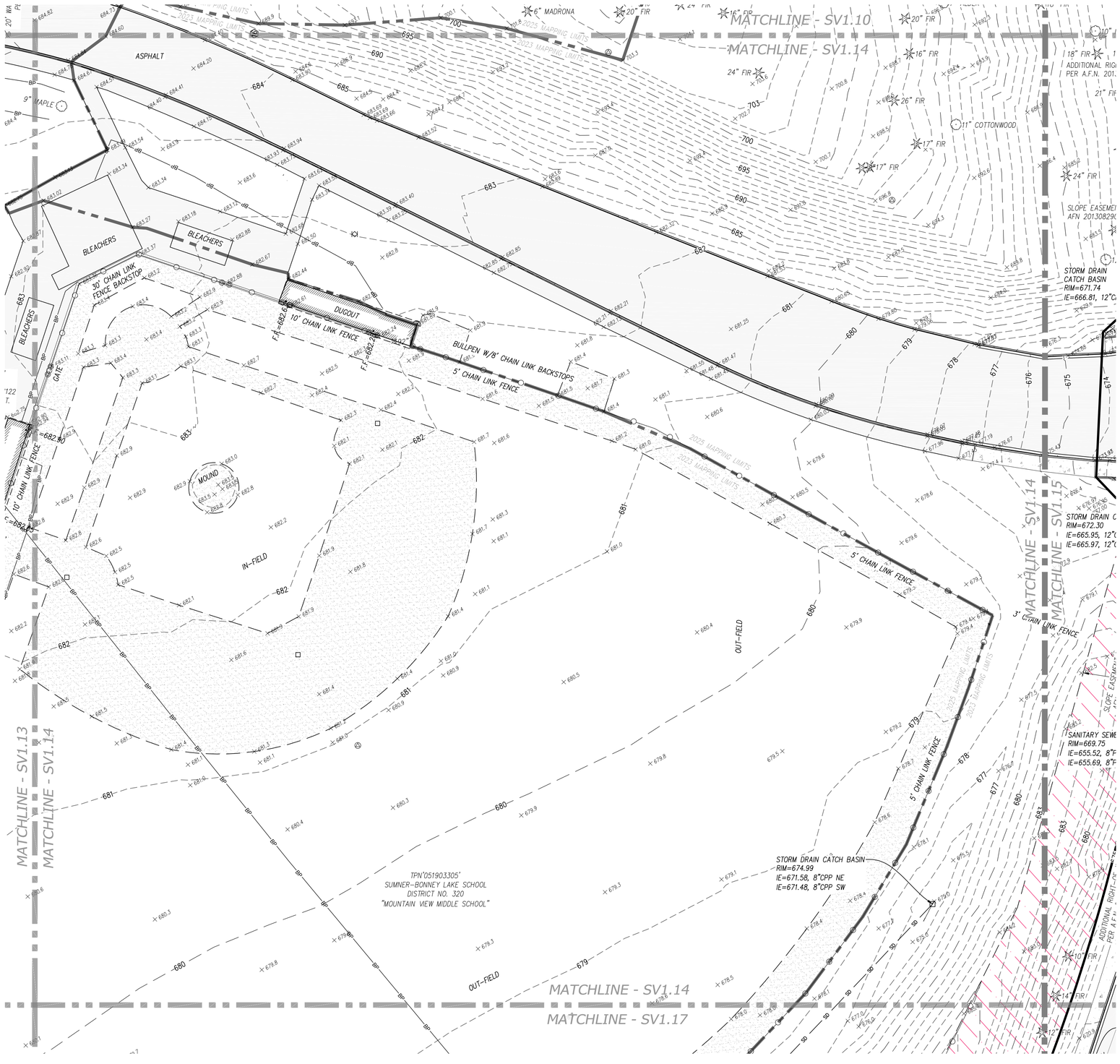
PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEy

SHEET NO.
SV1.13

PROJECT NO.
20818

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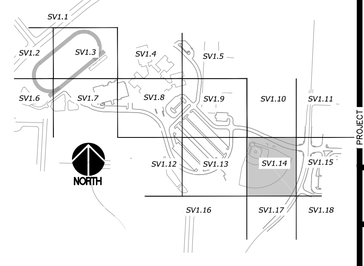
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SEAL
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STATE OF WASHINGTON
JAMES D. SITTS
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BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEy

SHEET NO.
SV1.14

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.14.dwg last edited: 01/26/26 3:02pm by: sdillhoyt

MATCHLINE - SV1.11

MATCHLINE - SV1.15

MATCHLINE - SV1.14

MATCHLINE - SV1.15

MATCHLINE - SV1.15

MATCHLINE - SV1.18

TPN"0519033305"
SUMNER SCHOOL DISTRICT NO. 320
"MOUNTAIN VIEW MIDDLE SCHOOL"

TPN: 0519033005
SUMNER SCHOOL DIST. NO. 320
"MOUNTAIN VIEW MIDDLE SCHOOL"

ADDITIONAL RIGHT-OF-WAY PER A.F.N. 201308290427

6' CHAIN LINK FENCE

BIKE LANE"

10" MAPLE

18" FIR

17" FIR

21" FIR

21" FIR

14" FIR

9" COTTENWOOD

21" FIR

9" FIR

24" FIR

SLOPE EASEMENT PER AFN 201308290428

13" FIR

15" FIR

12" MAPLE

STORM DRAIN CATCH BASIN
RIM=671.74
IE=666.81, 12"CPP S

S02°43'12"W 186.61'

SANITARY SEWER MANHOLE
RIM=672.42
IE=656.50, 8"PVC N
IE=656.60, 8"PVC S

STORM DRAIN CATCH BASIN
RIM=675.99
IE=673.84, 12"DI SW

CULVERT
IE=673.74, 12"DI NE

CULVERT
IE=673.64, 12" 12DI

STORM DRAIN CATCH BASIN
RIM=674.19
IE=671.70, 6"PVC N
IE=671.45, 12"CPP E

STORM DRAIN CATCH BASIN
RIM=674.29
IE=671.60, 12"PVC N
IE=671.26, 12"PVC S
IE=671.22, 12"CPP NW

ASPHALT

STORM DRAIN CATCH BASIN
RIM=671.86
IE=667.57, 12"PVC E

STORM DRAIN CATCH BASIN
RIM=672.91
IE=667.66, 12"PVC N
IE=667.48, 12"PVC E
IE=667.41, 12"PVC S
IE=667.66, 12"PVC W

STORM DRAIN CATCH BASIN
RIM=677.22
IE=674.38, 12"PVC N
IE=674.34, 12"PVC S

STORM DRAIN CATCH BASIN
RIM=676.82
IE=671.54, 12"PVC N
IE=671.50, 12"PVC E
IE=671.36, 12"PVC W

STORM DRAIN CATCH BASIN
RIM=674.51
IE=672.36, 12"CPP SW

STORM DRAIN CATCH BASIN
RIM=672.30
IE=665.95, 12"CPP N
IE=665.97, 12"CPP E

REBAR W/ CAP "MT.VIEW MIDDLE SCHOOL"
N: 669758.6
E: 1226494.3
EL: 673.14

STORM DRAIN CATCH BASIN
RIM=672.27
IE=663.82, 12"CPP N
IE=663.85, 12"CPP SW

"PUBLIC NOTICE"

"MT.VIEW MIDDLE SCHOOL"

STORM DRAIN CATCH BASIN
RIM=673.61
IE=666.52, 12"CPP N
IE=666.64, 12"CPP E
IE=666.49, 18"CPP S
IE=669.98, 12"CPP NW

SANITARY SEWER MANHOLE
RIM=669.75
IE=655.52, 8"PVC N
IE=655.69, 8"PVC S

SLOPE EASEMENT PER AFN 201308290428

Δ=49°26'51"
L=647.27'
R=750.00'

STORM DRAIN CATCH BASIN
TYPE II
RIM=674.96
IE=665.84, 18" PVC N
IE=669.56±, 6" PVC E
IE=665.77, 18" PVC S

ADDITIONAL RIGHT-OF-WAY PER A.F.N. 201308290427

MAG NAIL #3
N: 669602.78
E: 1226495.83
EL: 676.78

STORM DRAIN CATCH BASIN
RIM=670.22
IE=662.67, 12"CPP SE

SLOPE EASEMENT PER

ASPHALT
CONCRETE
GRAVEL
OAK
MAPLE
FIR
COTTENWOOD
CHAIN LINK FENCE
JUNCTION BOX
CONCRETE POLE

NORTH

HORIZONTAL SCALE: 1"=20'

20 0 20 40

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SV1.1 SV1.2 SV1.3 SV1.4 SV1.5 SV1.6 SV1.7 SV1.8 SV1.9 SV1.10 SV1.11 SV1.12 SV1.13 SV1.14 SV1.15 SV1.16 SV1.17 SV1.18 NORTH

REVISIONS

APPROVALS
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DATE 02/20/2026
SCALE AS NOTED

SEAL
REGISTERED PROFESSIONAL LAND SURVEYOR
SCHILLING
WASHINGTON
PRELIMINARY

PREPARED BY
sh sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
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PREPARED FOR
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1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.15

PROJECT NO.
20818

N:\20800\20818\Drawings\20818 - SV1.15.dwg last edited: 01/26/26 1:44pm by: sshilling

MATCHLINE - SV1.12
MATCHLINE - SV1.16

MATCHLIN
MATCHLIN

EDGE OF WATER
DETENTION POND
6' CHAIN LINK FENCE
GATE STAYS
10' CHAIN LINK FENCE
GATE
STORM DRAIN CATCH BASIN
TYPE II
RIM=671.71
IE=662.37, 8" CPP NE
IE=650.49, 12" CPP SE
IE=650.45, 12" CPP SW
IE=650.45, 12" CPP NW
10' CHAIN LINK FENCE
CULVERT (RECORD)
NOT FOUND AT TIME OF SURVEY
(SUBMERGED)

P.C. LARGE LOT
PER A.F.N. 1590

TPN'0519044013'
SUMNER-BONNEY LAKE SCHOOL DIST. NO. 320

4

P.C. LARGE LOT
PER A.F.N. 1590

TPN'0519044014'
SUMNER-BONNEY LAKE
SCHOOL DISTRICT

SEE BELOW FOR CONTINUATION

STORM CATCH BASIN
TYPE II
RIM=669.81
IE=666.47, 6" PVC N
IE=665.96, 6" PVC NE (OS)
IE=658.79, 12" CPP SE (OS)
IE=658.80, 12" CPP NW

MATCHLINE - SV1.13
MATCHLINE - SV1.16

STORM DRAIN TRENCH DRAIN
N. RIM =676.20
S. RIM=676.19
IE=675.91, 2" PVC N
10' CHAIN LINK FENCE
CHAIN GATE
3' CHAIN LINK FENCE
6' CHAIN LINK FENCE
OUT-FIELD

LOT
1590

5

SEE ABOVE FOR CONTINUATION

TPN'0519044014'
SUMNER-BONNEY LAKE
SCHOOL DISTRICT

M CATCH BASIN
II
669.81
666.47, 6" PVC N
665.96, 6" PVC NE (OS)
658.79, 12" CPP SE (OS)
658.80, 12" CPP NW

(K) 15' WATER EASEMENT PER
AFN 201912260475

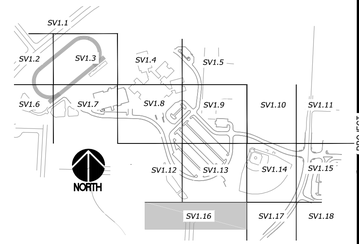
(X)(X)(X) 20' UTILITY ESMNT. PER A.F.N. 9712190101
20' CABLE ESMNT. PER A.F.N. 8112170197
20' COMMUNICATIONS ESMNT. PER A.F.N. 2538122
20' POWER ESMNT. PER & TELEPHONE ESMNT.
PER A.F.N. 2526750

MATCHLINE - SV1.16
MATCHLINE - SV1.17

NORTH
HORIZONTAL SCALE: 1"=20'
20 0 20 40

LEGEND

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- FOUND REBAR / IRON PIPE AS NOTED
- SURVEY CONTROL POINT, AS NOTED
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- SD STORM DRAIN LINE
- SS SANITARY SEWER LINE
- W BURIED WATER LINE
- GAS BURIED GAS LINE
- BP BURIED POWER LINE
- TEL BURIED TELECOM. LINE
- OHP OVERHEAD POWER LINE
- SD RECORD STORM DRAIN LINE
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SCALE AS NOTED

SEAL
SCHILLING
WASHINGTON
DAVID M. STEVENS
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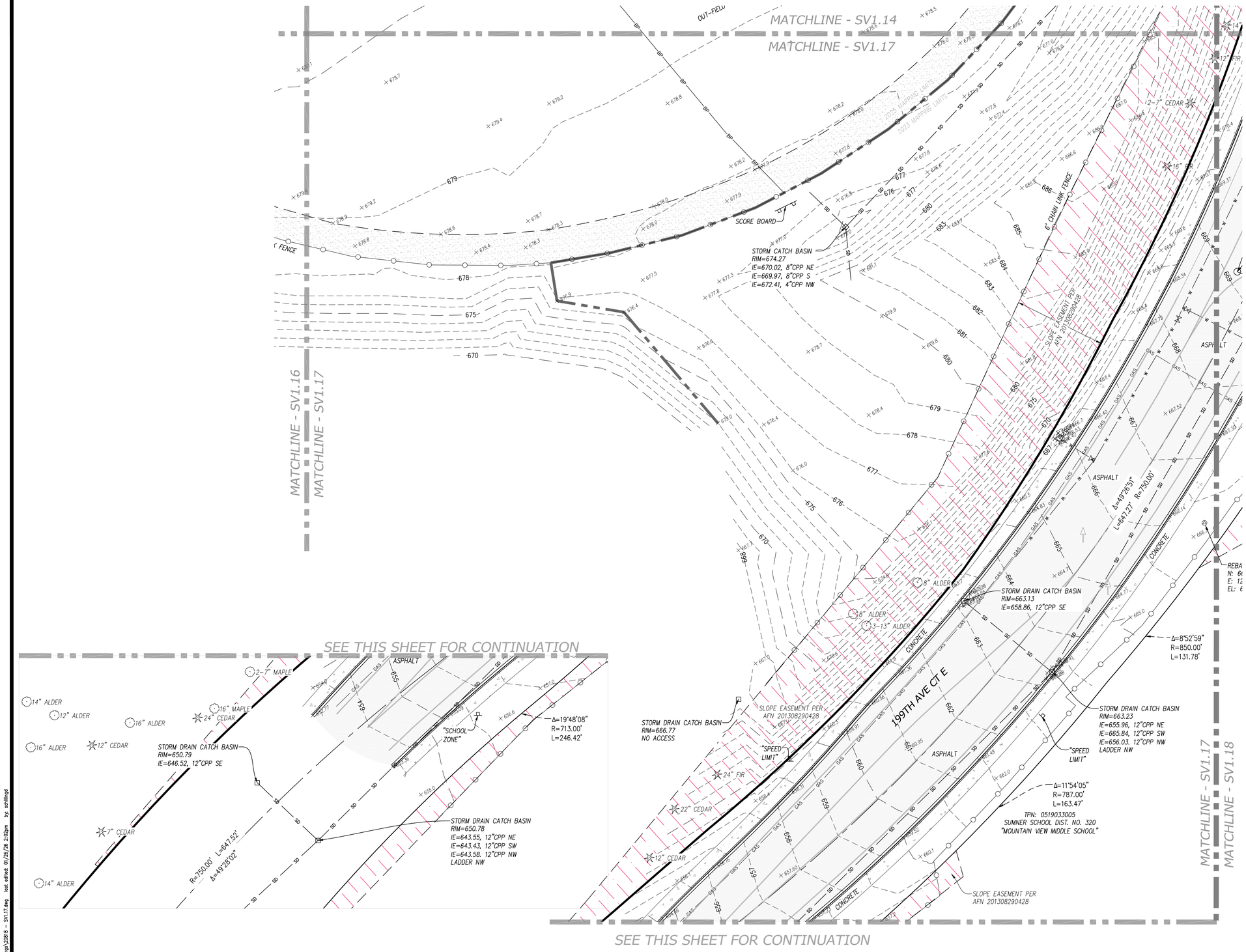
PROJECT
BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NO.
SV1.16

PROJECT NO.
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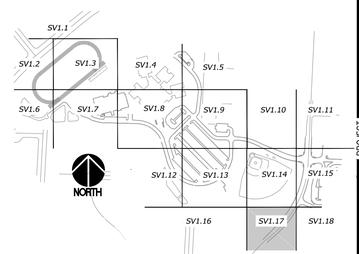
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SCALE AS NOTED

SEAL

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BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

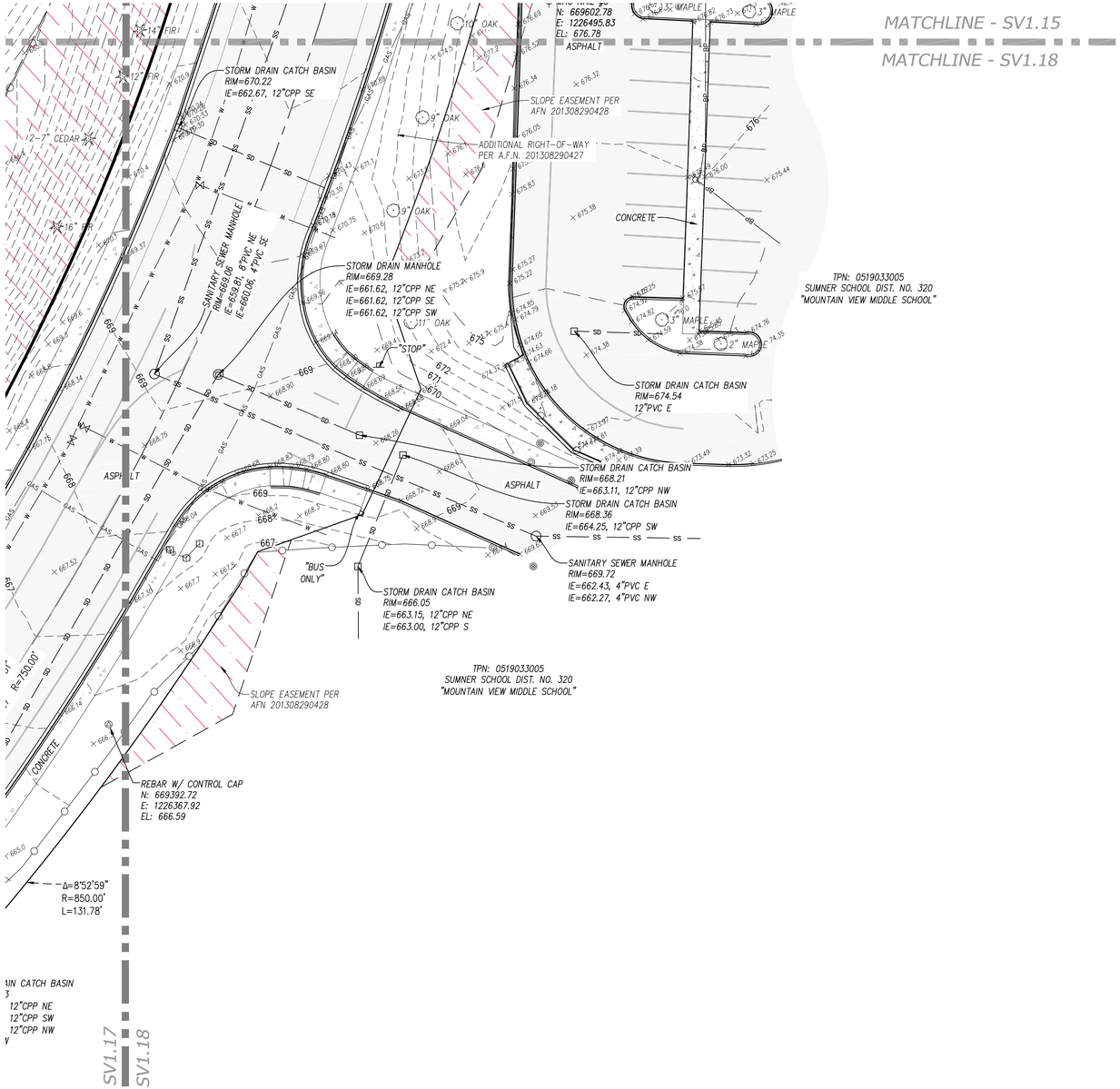
SHEET NO.

SV1.17

PROJECT NO.

20818

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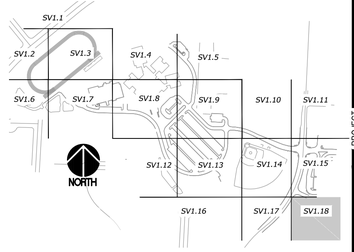
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DRAWN	KPO
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DATE	02/20/2026
SCALE	AS NOTED

SEAL

SCHILLING, DAVID M. STATE OF WASHINGTON 20153 REGISTERED PROFESSIONAL LAND SURVEYOR

PRELIMINARY

PREPARED BY

sitts & hill

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PREPARED FOR

SUMNER-BONNEY LAKE SCHOOL DISTRICT
1202 WOOD AVENUE
SUMNER, WA 98390
(253)-891-6305

PROJECT

BONNEY LAKE HIGH SCHOOL
BUILDING ADDITION TOPORGAPHIC SURVEY
BONNEY LAKE, WA 98391

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NO.

SV1.18

PROJECT NO.

20818

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STANDARD EROSION CONTROL NOTES

1. APPROVAL OF THIS CONSTRUCTION SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION/DETENTION/INFILTRATION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THIS CONSTRUCTION SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE CONSTRUCTION SWPPP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE CONSTRUCTION SWPPP FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
8. AT NO TIME SHALL MORE THAN 1 FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED 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.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

PLASTIC COVERING NOTES

DESIGN AND INSTALLATION STANDARDS

1. PLASTIC SLOPE COVER MUST BE INSTALLED AS FOLLOWS:
   - 1.1. RUN PLASTIC UP AND DOWN SLOPE, NOT ACROSS SLOPE.
   - 1.2. PLASTIC MAY BE INSTALLED PERPENDICULAR TO A SLOPE IF THE SLOPE LENGTH IS LESS THAN 10 FEET.
   - 1.3. MINIMUM OF 8-INCH OVERLAP AT SEAMS.
   - 1.4. ON LONG OR WIDE SLOPES, OR SLOPES SUBJECT TO WIND, TAPE ALL SEAMS.
   - 1.5. PLACE PLASTIC INTO A SMALL (12-INCH WIDE BY 6-INCH DEEP) SLOT TRENCH AT THE TOP OF THE SLOPE AND BACKFILL WITH SOIL TO KEEP WATER FROM FLOWING UNDER THE PLASTIC.
   - 1.6. PLACE SAND FILLED BURLAP OR GEOTEXTILE BAGS EVERY 3 TO 6 FEET ALONG SEAMS AND TIE THEM TOGETHER WITH TWINE TO HOLD THEM IN PLACE.
   - 1.7. INSPECT PLASTIC FOR RIPS, TEARS, AND OPEN SEAMS REGULARLY AND REPAIR IMMEDIATELY. THIS PREVENTS HIGH VELOCITY RUNOFF FROM CONTACTING BARE SOIL WHICH CAUSES EXTREME EROSION.
   - 1.8. SANDBAGS MAY BE LOWERED INTO PLACE TIED TO ROPES. HOWEVER, ALL SANDBAGS MUST BE STAKED IN PLACE.
2. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL.
3. IF EROSION AT THE TOE OF A SLOPE IS LIKELY, A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION SHALL BE INSTALLED AT THE TOE OF THE SLOPE IN ORDER TO REDUCE THE VELOCITY OF RUNOFF.

MAINTENANCE STANDARDS

1. TORN SHEETS MUST BE REPLACED AND OPEN SEAMS REPAIRED.
2. COMPLETELY REMOVE AND REPLACE THE PLASTIC IF IT BEGINS TO DETERIORATE DUE TO ULTRAVIOLET RADIATION.
3. COMPLETELY REMOVE PLASTIC WHEN NO LONGER NEEDED.
4. OLD TIRES SHALL NOT BE USED TO WEIGHT DOWN PLASTIC SHEETING APPROPRIATELY.

TOPSOIL STOCKPILE NOTES

1. SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2H:1V
2. BETWEEN OCTOBER 01 AND APRIL 30:
   - 2.1. AN INTERCEPTOR DIKE WITH GRAVEL OUTLET AND SILT FENCE SHALL SURROUND ALL TOPSOIL.
   - 2.2. WITHIN 2 DAYS, COMPLETE EROSION CONTROL SEEDING OR COVERING STOCKPILES WITH CLEAR PLASTIC, OR OTHER MULCHING MATERIALS.
3. BETWEEN MAY 01 AND SEPTEMBER 30:
   - 3.1. AN INTERCEPTOR DIKE WITH GRAVEL OUTLET AND SILT FENCE SHALL SURROUND ALL TOPSOIL IF THE STOCKPILE WILL REMAIN IN PLACE FOR A LONGER PERIOD OF TIME THAN ACTIVE CONSTRUCTION GRADING.
   - 3.2. WITHIN 7 DAYS, COMPLETE EROSION CONTROL SEEDING, OR COVERING STOCKPILES WITH CLEAR PLASTIC, OR OTHER MULCHING MATERIALS.
4. WHEN NATIVE TOPSOIL IS TO BE STOCKPILED AND REUSED THE FOLLOWING SHOULD APPLY TO ENSURE THAT THE MYCORRHIZAL BACTERIAL, EARTHWORMS, AND OTHER BENEFICIAL ORGANISMS WILL NOT BE DESTROYED:
   - 4.1. RE-INSTALL TOPSOIL WITHIN 4-6 WEEKS
   - 4.2. DO NOT ALLOW THE SATURATION OF TOPSOIL WITH WATER
   - 4.3. DO NOT USE PLASTIC COVERING.

CONSTRUCTION SEQUENCE

1. OBTAIN SITE DEVELOPMENT PERMIT FROM THE CITY OF BONNEY LAKE. SCHEDULE PRE-CONSTRUCTION MEETINGS WITH THE CITY INSPECTOR, OWNER, CONTRACTOR AND DESIGN TEAM. SUBMIT ALL SUBMITTALS TO ARCHITECT.
2. PROVIDE TESC MEASURES (EROSION CONTROL PLANS AND DETAIL SHEETS). COORDINATE WITH PROJECT WORK TIME PERIODS & PROJECT MILESTONE COMPLETION DATES.
3. PROVIDE TEMPORARY UTILITIES AND SERVICES NECESSARY FOR CONSTRUCTION ACTIVITIES.
4. COMMENCE CONSTRUCTION ACTIVITIES.
5. UPON COMPLETION OF PAVING AND LANDSCAPING, CLEAN ALL CATCH BASINS AND PIPING WITH A VACTOR TRUCK. PROVIDE INVOICE TO ENGINEER UPON COMPLETION.
6. FINAL SITE INSPECTIONS. SEE CONTRACT PLANS FOR MILESTONE INSPECTIONS REQUIRED BY OWNER AND PERMITTING AGENCY.
7. CERTIFICATE OF OCCUPANCY ISSUED.

SEEDING NOTES

1. SEED MIXTURES SHALL BE PER THE "SEED MIXTURE FOR EROSION CONTROL" TABLE BELOW, AND SHALL BE APPLIED AT THE RATE OF 120 LB. PER ACRE.
2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY (E.G. GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS.
5. THE SEED BED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.
7. SEED SHALL NOT BE USED IN AREAS SUBJECT TO WEAR BY CONSTRUCTION TRAFFIC.
8. APPLICABLE IN AREAS OF 10% OR LESS SLOPE FOR A MAXIMUM HORIZONTAL DISTANCE OF 100 FEET. IN STEEPER AREAS (>10% SLOPE), USE MULCH, NETTING, OR OTHER TREATMENTS SPECIFICALLY DESIGNED FOR STEEPER AND LONGER SLOPES.

SEED MIXTURE FOR EROSION CONTROL

NAME	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CHEWING OR ANNUAL BLUE GRASS (FESTUCA RUBRA VAR. COMMUTATA OR POA ANNA)	40%	98%	90%
PERENNIAL RYE (LOLIUM PERENNE)	50%	98%	90%
REDTOP (AGROSTIS ALBA) OR COLONIAL BENTGRASS (AGROSTIS TENUIS)	5%	92%	85%
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	5%	98%	90%

DEMOLITION NOTES

1. REMOVE ALL DELETERIOUS MATERIAL FOUND ON-SITE INCLUDING VEGETATION, SCRAP WOOD, TRASH, ETC. AND DISPOSE OF AT AN APPROVED OFF-SITE LOCATION.
2. AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN SIGNS, BARRICADES, FENCING, OR OTHER MEASURES TO ENSURE CONTINUOUS PROTECTION OF THE PUBLIC AND TO PREVENT UNAUTHORIZED ENTRY TO THE CONSTRUCTION AREA. AT A MINIMUM FENCING SHALL BE 6.0 FEET HIGH.
3. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY AND STATE REQUIREMENTS. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL SIGNS.
4. THE CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF OFF-SITE AND ON-SITE PAVED SURFACES WHERE DAMAGE HAS BEEN SUSTAINED DUE TO THE DEVELOPMENT'S CONSTRUCTION TRAFFIC.
5. ALL CONCRETE, PAVEMENT, CURBS, SIDEWALKS AND RAMPS INDICATED TO BE REMOVED OR REPLACED SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT AS IDENTIFIED DURING CONSTRUCTION. WHERE THIS IS NOT POSSIBLE DUE TO CONFLICTS OR ADJACENT DAMAGED CONCRETE / ASPHALT, THE CONTRACTOR SHALL MAKE A FULL PAVEMENT DEPTH SAWCUT AT THE PROPOSED JOINT IN SOUND PAVEMENT. PROPOSED CONCRETE / ASPHALT SHALL EXTEND TO THE SAWCUT EDGE AND BE APPROPRIATELY JOINED / SEALED. THE CONTRACTOR SHALL MAKE SAWCUTS AT EXISTING JOINTS WHERE POSSIBLE.

POLLUTION PREVENTION NOTES

1. EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT THE DESIGNATED FUELING AREA OR AN APPROVED OFF-SITE LOCATION.
2. PREVENT OILS AND FUELS FROM ENTERING THE STORM DRAINAGE SYSTEM WITH PROPER CONTAINMENT DEVICES.
3. ACCESS TO CONSTRUCTION IS VIA ADJACENT EXISTING PAVED STREETS OR THE PROPOSED CONSTRUCTION ENTRANCE. SWEEP DIRT FROM PAVING DAILY OR AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON PUBLIC STREET PAVEMENT.

DEFINITIONS

DEMOLISH: CAREFULLY REMOVE EXISTING ITEM IN ITS **ENTIRETY** AND LEGALLY DISPOSE OF SAME OFFSITE.

REUSE/RELOCATE: CAREFULLY REMOVE EXISTING ITEM, INTACT, AS INDICATED, TEMPORARILY STORE (IF NECESSARY) AND PROTECT (FOR REINSTALLATION, INTACT, AS INDICATED).

SALVAGE: CAREFULLY REMOVE EXISTING ITEM, INTACT, AS INDICATED, AND DELIVER TO OWNER/OTHER, INTACT, AS INSTRUCTED.

PROTECT: LEAVE EXISTING ITEM IN PLACE, INTACT, AS INDICATED, AND PROTECT FROM DAMAGE. THIS IS PART OF EXISTING-TO-REMAIN AND IS SPECIFICALLY NOTED ONLY FOR CLARIFICATION PURPOSES.

NOTE: THE CONTRACTOR SHALL VISIT THE SITE TO PERFORM A THOROUGH WALK THROUGH TO EXAMINE ALL ITEMS TO BE "DEMOLISHED," "REUSE/RELOCATED", "SALVAGED" OR "SAVED". ALL ITEMS SHALL BE INCLUDED IN THE CONTRACTORS SCOPE OF WORK AND BID.

SEASONAL LIMITATIONS ON CONSTRUCTION ACTIVITIES

THE FOLLOWING SHALL BE ADHERED TO ON ALL CONSTRUCTION SITES WITH EROSIVE SOILS AND/OR A GRADIENT OF GREATER THAN TWO PERCENT FOR LIMITING EXPOSED SOILS TO EROSIVE PROCESSES.

MAY 1ST TO SEPTEMBER 30TH (DRY SEASON)

THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, MUST BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED BY NO LATER THAN SEPTEMBER 30TH OF A GIVEN YEAR. UNLESS IMMEDIATE STABILIZATION IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, ALL AREAS CLEARED OR OTHERWISE DISTURBED MUST BE APPROPRIATELY STABILIZED THROUGH THE USE OF MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, FREE DRAINING MATERIALS, ETC..., BY SEPTEMBER 30TH.

UNLESS OTHERWISE APPROVED BY THE COUNTY, SEEDING, FERTILIZING AND MULCHING OR CLEARED OR OTHERWISE DISTURBED AREAS SHALL BE PERFORMED DURING THE FOLLOWING PERIODS: MARCH 1ST THROUGH MAY 15TH AND AUGUST 15TH THROUGH OCTOBER 1ST. SEEDING AFTER OCTOBER 1ST WILL BE DONE WHEN PHYSICAL COMPLETION OF THE PROJECT IS IMMINENT AND THE ENVIRONMENTAL CONDITIONS ARE CONDUCIVE TO SATISFACTORY GROWTH. IN THE EVENT THAT PROJECT STABILIZATION IS NOT POSSIBLE, AN ALTERNATIVE METHOD OF GROUND COVER (SUCH AS MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, ETC...,) MUST BE INSTALLED BY NO LATER THAN SEPTEMBER 30TH

IN THE EVENT THAT CONSTRUCTION ACTIVITIES OR OTHER SITE DEVELOPMENT ACTIVITIES ARE DISCONTINUED FOR FOUR CONSECUTIVE DAYS OR MORE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES IMMEDIATELY AFTER STORM EVENTS AND AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES.

THE CONTRACTOR SHALL PROVIDE MATERIALS ONSITE READILY AVAILABLE TO IMMEDIATELY STABILIZE DENUDED AREAS DURING PERIODS OF INCLEMENT WEATHER WHICH RESULT IN EROSION AND SEDIMENT TRANSPORT OFFSITE.

THE CONTRACTOR SHALL ENSURE THE PROPER CONTINUED FUNCTIONING OF THE ESC FACILITIES BY PROMPT CLEANING AND MAINTENANCE AFTER EACH EROSION AND SEDIMENT PRODUCING RAINFALL EVENT.

OCTOBER 1ST TO APRIL 30TH (WET SEASON)

ON SITES WHERE UNINTERRUPTED CONSTRUCTION ACTIVITY IS IN PROGRESS, THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, SHALL BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN BE COVERED OR STABILIZED WITHIN 24 HOURS IN THE EVENT A MAJOR STORM IS PREDICTED AND/OR EROSION/SEDIMENT TRANSPORT OFFSITE IS OBSERVED.

ADDITIONALLY, ALL CLEARED OR DISTURBED AREAS WILL RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED (SUCH AS MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, FREE DRAINING MATERIAL, ETC...,) WITHIN FIVE DAYS AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED IF NOT BEING ACTIVELY WORKED. FILTER FABRIC FENCING, SEDIMENT TRAPS, SEDIMENT PONDS, ETC..., WILL NOT BE VIEWED AS ADEQUATE COVER IN AND OF THEMSELVES. IN THE EVENT THAT ANY LAND AREA NOT BEING ACTIVELY WORKED REMAINS UNPROTECTED OR HAS NOT BEEN APPROPRIATELY STABILIZED FIVE DAYS AFTER HAVING BEEN CLEARED, ALL CONSTRUCTION ACTIVITY ON THE SITE, EXCEPT FOR APPROVED EROSION AND SEDIMENTATION CONTROL ACTIVITY, SHALL IMMEDIATELY CEASE UNTIL SUCH A TIME AS SAID LAND HAS BEEN APPROPRIATELY PROTECTED OR STABILIZED.

THE CONTRACTOR SHALL AT ALL TIMES HAVE AVAILABLE FOR THE PROJECT SUFFICIENT QUANTITIES OF PROTECTIVE COVERING MATERIALS TO IMMEDIATELY STABILIZE ALL DISTURBED AREAS IN CASE THE PROJECT ENGINEER OR CITY DIRECTS THEM TO COVER DUE TO OBSERVED MIGRATION OF SOILS OR INCLEMENT WEATHER.

CONSTRUCTION ENTRANCE NOTES

1. MATERIAL SHALL BE 4-INCH TO 8-INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1-INCH TO 3-INCH WASHED ROCK.
2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

MULCHING NOTES

1. MULCH MATERIALS USED SHALL BE AS NOTED AND SHALL BE APPLIED AT THE RATE LISTED BELOW.
2. MULCH SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.
3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.
4. ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1. CONTRACTOR WILL NEED TO REMOVE WOOD FIBER CELLULOSE UPON FINAL PROJECT COMPLETION (IF USED) UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

MULCH MATERIALS, RATES AND USES

MULCH MATERIAL	QUALITY STANDARDS	APPLICATION PER 1,000 SF	APPLICATION PER ACRE	DEPTH OF APPLICATION	REMARKS
HAY OR STRAW	AIR DRY, FREE FROM WEED SEED AND COARSE MATERIAL	75 TO 100 POUNDS	1.5 TO 2.5 TONS	2 INCHES (MINIMUM)	USE WHERE NEEDED FOR MORE THAN 3 MONTHS, SUBJECT TO BLOWING, KEEP MOIST OR TIED DOWN
WOOD FIBER CELLULOSE (PARTLY DIGESTED WOOD FIBERS)	NO GROWTH ORGANISM INHIBITING FACTORS	25 TO 30 POUNDS	1,000 TO 1,500 POUNDS	2 INCHES (MINIMUM)	WHEN USED ON CRITICAL AREAS, DOUBLE THE APPLICATION RATE. APPLY WITH HYDRO-MULCHER (NO TIE DOWN REQUIRED)

CITY STANDARD SEWER NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.
2. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF BONNEY LAKE DEVELOPMENT POLICIES AND PUBLIC WORKS DESIGN STANDARDS, AND THE AMENDMENTS THERETO.
4. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY.
5. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
6. NOTIFY THE CITY OF BONNEY LAKE 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
7. FOR AID IN UTILITY LOCATION, CALL 811 OR 1-800-424-555, 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. PIPE LENGTH, MANHOLE DEPTHS, ETC., (AS SHOWN) ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
9. PROVIDE THE CITY'S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
10. CONNECTION TO AN EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS.
11. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
12. IN THE EVENT THAT AN EXISTING UTILITY IS DAMAGED DURING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY AND THE UTILITY COMPANY (IF APPLICABLE) IMMEDIATELY.
13. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH CITY OF BONNEY LAKE STANDARDS AND SPECIFICATIONS.
14. PRIOR TO ACCEPTANCE, THE DEVELOPER/CONTRACTOR SHALL VERIFY THAT THE LINE AND GRADE OF THE MAIN MEETS THE CITY OF BONNEY LAKE STANDARDS. IMMEDIATELY PRIOR TO STARTING THE VIDEO INSPECTION, THE DEVELOPER/CONTRACTOR SHALL FLUSH THE MAINS AND INSERT A VISIBLE DYE (COLOR AS APPROVED BY THE CITY) INTO THE MAINS TO AID IN IDENTIFYING THE DEPTHS OF ANY PONDS ENCOUNTERED DURING THE INSPECTION. PONDED DEPTHS THAT EXCEED 1/2 INCH WILL REQUIRE THE MAIN TO BE REPAIRED UNLESS OTHERWISE APPROVED BY THE CITY
15. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL NOT BE ADJUSTED UNTIL THE FINAL LIFT OF PAVEMENT IS IN PLACE.
16. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THAT THE EXISTING FACILITIES REMAIN FULLY OPERATIONAL DURING ALL STAGES OF CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING HOMEOWNERS OF THE INTENDED CONSTRUCTION SCHEDULE.
18. THE CONTRACTOR SHALL COMPLETELY RESTORE THE SITE TO EXISTING OR SUPERIOR CONDITION PRIOR TO MOVING TO ANOTHER PROJECT SITE.

CITY STANDARD WATER NOTES

THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS FOR WATER MAIN EXTENSIONS:

A. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.

B. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF BONNEY LAKE APPROVED STANDARDS.

D. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, CITY AND APPROPRIATE PUBLIC AGENCIES.

E. NOTIFY THE CITY OF BONNEY LAKE FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.

F. THE CITY OF BONNEY LAKE SHALL BE NOTIFIED 3 WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH THE CITY REQUIREMENTS. DEVELOPER SHALL NOT OPERATE ANY VALVES WITHIN THE EXISTING SYSTEM; THESE WILL BE OPERATED BY THE CITY OF BONNEY LAKE PERSONNEL ONLY.

G. FOR AID IN UTILITY LOCATION, CALL 811 OR 1-800-424-5555, 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.

H. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 53 FOR 4-INCH PIPE AND CLASS 50 FOR 6-INCH PIPE OR LARGER. JOINTS SHALL BE RUBBER GASKETED, PUSH-ON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN.

I. UNLESS OTHERWISE SPECIFIED VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT SEATED GATE VALVES: ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H OR WATEROUS. VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES. ACCEPTABLE VALVES ARE M&H 450 OR 4500 OR PRATT EQUIVALENT.

J. HYDRANTS SHALL BE MUELLER CENTURION A-423, CLOW MEDALLION, WATEROUS (PACER), AMERICAN AVK (SERIES 2780) OR M&H (929). HYDRANTS SHALL CONFORM TO AWWA STANDARD C502-73.

K. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE CITY OF BONNEY LAKE INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.

L. WHEN DIRECTED BY THE CITY (OR AS SHOWN ON THESE APPROVED CONSTRUCTION PLANS), THE CONTRACTOR SHALL SALVAGE ALL ABANDONED FIRE HYDRANTS, VALVE BOXES, VALVE MARKER POSTS, HYDRANT GUARD POSTS, AND OTHER RELATED APPURTENANCES AND/OR PIPE, AND DELIVER THE MATERIAL TO THE CITY. UNLESS OTHERWISE APPROVED BY THE CITY, SALVAGEABLE MATERIALS THAT FOR ANY REASON ARE DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED WITH NEW MATERIALS AND SUBSEQUENTLY DELIVERED TO THE CITY.

STANDARD GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IN THE CITY OF BONNEY LAKE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST STATE OF WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND CITY OF BONNEY LAKE PUBLIC ROAD STANDARDS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES TO COORDINATE CONSTRUCTION. ALL UTILITY RELOCATION WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR AND MUST BE IN ACCORDANCE WITH STANDARDS OF THE CITY.
3. BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO CONSTRUCTION.
4. ANY REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE PIERCE COUNTY DEVELOPMENT ENGINEERING SECTION PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
5. UPON COMPLETION OF THE PROJECT'S STORM DRAINAGE SYSTEM, A "LETTER OF COMPLETION", SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON MUST BE SUBMITTED TO THE DEPARTMENT PRIOR TO RELEASE OF ANY FINANCIAL GUARANTEE POSTED BY THE PROPONENT.
6. BEFORE WORKING IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL:
   - A. OBTAIN A GENERAL PERMIT FROM THE COUNTY.
   - B. SUBMIT A FINANCIAL GUARANTEE TO THE COUNTY TO ASSURE SATISFACTORY COMPLETION OF WORK.
   - C. PROVIDE PROOF OF LIABILITY INSURANCE IN AN AMOUNT REQUIRED BY THE CITY.
7. THE CONTRACTOR SHALL NOTIFY THE APPLICANT'S ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, STANDING GROUNDWATER OR SEVERE DISCREPANCIES FROM SOIL LOG DESCRIPTIONS AS NOTED ON THESE PLANS.
8. CUT SLOPES:

A. SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, OR AS RECOMMENDED BY A SOILS ENGINEER.

B. THE CATCH POINT OF THE TOP OF THE SLOPE SHALL BE SET BACK FROM THE SITE BOUNDARY LINE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS A RETAINING WALL IS DESIGNED BY THE ENGINEER AND CONSTRUCTED FOR THE PROJECT.

CUT DEPTH	SETBACK DISTANCE
UNDER 5 FEET	2 FEET
5 – 20 FEET	HEIGHT/2
OVER 20 FEET	10 FEET

9. FILL STANDARDS:

A. FILLS WHICH ARE INTENDED FOR BUILDING SITES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE I.B.C. AS ADOPTED BY THE CITY OF BONNEY LAKE, AND AN ASSIGNMENT OF ALLOWABLE SOIL-BEARING PRESSURES WILL BE UNDER THE JURISDICTION OF THE CITY OF BONNEY LAKE BUILDING OFFICIAL IN ACCORDANCE WITH THE I.B.C.

B. SLOPES SHALL BE NO STEEPER THAN IS SAFE FOR THE INTENDED USE AND SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, OR AS RECOMMENDED BY A SOIL ENGINEER. FILL SITES MUST BE APPROVED BY THE ENGINEER AS SUITABLE LOCATIONS FOR THE PROPOSED FILL.

C. THE GROUND SURFACE FOR FILLS SHALL BE PREPARED BY REMOVING VEGETATION, NONCOMPLYING FILL, TOPSOIL, AND OTHER UNSUITABLE MATERIALS; SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL; AND, WHERE EXITING SLOPES ARE STEEPER THAN FIVE HORIZONTAL TO ONE VERTICAL, BY BENCHING INTO COMPETENT MATERIAL AS DETERMINED BY THE ENGINEER. THE BENCH UNDER THE TOE OF A FILL ON A SLOPE STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL SHALL BE AT LEAST 10 FEET WIDE OR AS RECOMMENDED BY A SOIL ENGINEER.

D. EXCEPT AS PERMITTED BY THE COUNTY, NO MATERIAL OTHER THAN EARTH MATERIAL SHALL BE BURIED OR PLACED IN FILLS. PLACEMENT OF OTHER THAN EARTH MATERIAL IS REGULATED BY STATE STATUTES OR FEDERAL LAWS, AND ADDITIONAL PERMITS MAY BE REQUIRED.

E. FILLS SHALL BE CONSTRUCTED USING EARTH MATERIALS, COMPACTION METHODS, AND CONSTRUCTION TECHNIQUES SO THAT TABLE FILLS ARE CREATED.

F. THE TOE OR CATCH POINT OF FILL SLOPES SHALL BE SET BACK FROM THE SITE BOUNDARY LINE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS A RETAINING WALL IS DESIGNED BY THE ENGINEER AND CONSTRUCTED FOR THE PROJECT.

FILL DEPTH	SETBACK DISTANCE
UNDER 5 FEET	2 FEET
5 – 40 FEET	HEIGHT OF FILL/2
OVER 40 FEET	20 FEET

10. NO FILL SHALL CONTAIN STONES GREATER THAN 6 INCHES IN DIAMETER.
11. FILLS SHALL BE PLACED IN LIFTS NOT GREATER THAN 8 INCHES IN DEPTH AND COMPACTED TO 95% PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.
12. ISSUANCE OF A SITE DEVELOPMENT PERMIT BY THE CITY OF BONNEY LAKE DOES NOT IMPLY OR SIGNIFY THAT THE PROPOSED WORK COMPLIES WITH THE REQUIREMENTS OF OR IS ALLOWED BY OTHER CITY ORDINANCES, REGULATIONS OR REQUIREMENTS, OR STATE OR FEDERAL LAWS. THE CONTRACTOR SHALL ACCEPT SOLE RESPONSIBILITY AND LIABILITY FOR COMPLIANCE WITH ALL STATE, FEDERAL, AND LOCAL RULES, REQUIREMENTS, LAWS, ORDINANCES AND REGULATIONS.
13. THE SITE DEVELOPMENT PERMIT SHALL BE POSTED BY THE CONTRACTOR AT THE DRIVEWAY LOCATION FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WEATHERPROOFING OF THE PERMIT, POSTING APPARATUS, AND MAINTENANCE.
14. A SITE DEVELOPMENT PERMIT SHALL BE VALID FOR THREE YEARS FROM THE DATE OF APPROVAL BY THE CITY. A ONE YEAR EXTENSION MAY BE GRANTED IF DEEMED APPROPRIATE BY THE CITY.
15. THE CITY IS AUTHORIZED TO MAKE INSPECTIONS AND TAKE SUCH ACTIONS AS REQUIRED TO ENFORCE THESE REGULATIONS. THE COUNTY REPRESENTATIVE SHALL PRESENT PROPER CREDENTIALS AND MAKE A REASONABLE EFFORT TO CONTACT THE PROPERTY OWNER BEFORE ENTERING ONTO PRIVATE PROPERTY.
16. SHOULD THE CITY BECOME AWARE OF CONDITIONS THAT INVALIDATE THE ORIGINAL DESIGN DATA USED TO OBTAIN THE PERMIT OR DETERMINE THAT THE CONTRACTOR IS NOT COMPLYING WITH THE CONDITIONS OF THE PERMIT OR APPROVED PLANS, THE COUNTY MAY REVOKE THE ORIGINAL PERMIT AND/OR ORDER WORK STOPPED ON THE PROJECT. THE CITY MAY REQUIRE THE APPLICANT TO RESUBMIT INFORMATION OR PLANS FOR REVIEW AND APPROVAL AND APPLY FOR A NEW PERMIT.

CITY GENERAL NOTES (STORM DRAIN CONSTRUCTION)

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT).
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH THE APPROVED PLANS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS.
3. COMPLY WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS BY THE CITY OR OTHER GOVERNING AUTHORITY OR AGENCY AS MAY BE APPLICABLE.
4. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE CITY PRIOR TO THE START OF CONSTRUCTION.
5. ALL STORM MAINS AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK, AND CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO DO SO.
6. STORM DRAIN PIPE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 6.a. PLAIN CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF C-143.
   - 6.b. REINFORCED CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF C-76-IV.
   - 6.c. PVC PIPE SHALL CONFORM TO ASTM D3034, SDR FOR 4-INCH THROUGH 15-INCH DIAMETER PVC PIPE, AND SHALL CONFORM TO ASTM F679 FOR 18-INCH THROUGH 27-INCH DIAMETER PVC PIPE, WITH JOINTS AND GASKETS CONFORMING TO ASTM D3212 AND ASTM F477.
   - 6.d. DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF THE WSDOT STANDARD SPECIFICATIONS, THICKNESS CLASS AS SHOWN ON THE PLANS.
   - 6.e. POLYETHYLENE SMOOTH WALL PIPE PER ADVANCED DRAINAGE SYSTEMS (ADS) N-12, "SURE-LOK" BELL AND SPIGOT, CONSTRUCTED PER WSDOT STANDARD SPECIFICATIONS 7-04. NOTE: THIS TYPE OF PIPE WILL ONLY BE APPROVED WITH THE CITY'S SPECIFIC APPROVAL. APPROVAL SHALL BE BASED ON SITE-SPECIFIC CONDITIONS AND IF ADDITIONAL ON-SITE INSPECTION TIME FOR WITNESSING PROPER PIPE INSTALLATION CAN BE SCHEDULED BY THE CITY.
7. SPECIAL STRUCTURES, OIL/WATER SEPARATORS, AND OUTLET CONTROLS SHALL BE INSTALLED PER THE APPROVED PLANS AND MANUFACTURERS' RECOMMENDATIONS.
8. PROVIDE TRAFFIC CONTROL PLANS(S) AS REQUIRED IN ACCORDANCE WITH MUTCD.
9. CALL UNDERGROUND LOCATE LINE AT 811 OR 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.

SITE PAVEMENT PAINT NOTES

1. ALL PAVEMENT MARKINGS SHALL BE PAINT. ALL PAVEMENT MARKINGS SHALL COMPLY WITH WSDOT SPECIFICATION 9-34 AND SHALL BE APPLIED IN ACCORDANCE WITH WSDOT SPECIFICATION 8-22.
2. PAINT SHALL BE APPLIED IN TWO APPLICATIONS. THE TIME PERIOD BETWEEN APPLICATIONS SHALL BE IN ACCORDANCE WITH WSDOT SPECIFICATION SECTION 8-22.3(3).

EXCAVATION NOTES

1. EXCAVATE TO ELEVATIONS, LINES AND GRADES INDICATED TO NOT MORE THAN 1/2-INCH ABOVE OR BELOW THAT REQUIRED.
2. SLOPE SIDES OF EXCAVATION AS INDICATED OR COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
3. STOCKPILE SATISFACTORY EXCAVATED MATERIALS WHERE DIRECTED UNTIL REQUIRED FOR BACKFILL OR FILL. PLACE, GRADE AND SHAPE STOCKPILES FOR PROPER DRAINAGE. LOCATE AND RETAIN SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS.
4. DISPOSE OF EXCESS SOIL AND UNSUITABLE SOIL MATERIAL OFF-SITE AS DIRECTED.

COMPACTION NOTES

1. CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING MINIMUM PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA CLASSIFICATION. PERCENTAGES ARE RELATED TO MAXIMUM DRY DENSITY AS MEASURED IN CONFORMANCE WITH ASTM D 1557.
2. COMPACT TOP 12-INCHES OF SUBGRADE (24-INCHES UNDER PROPOSED DRIVING SURFACES) TO 95-PERCENT OF MAXIMUM DRY DENSITY UNDER PAVEMENTS AND GRAVEL SURFACING.
3. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL TO PREVENT FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO SATISFACTORY VALUE.

SUBGRADE PREPARATION NOTES

1. SUBGRADE BELOW STRUCTURAL FILL SHALL CONSIST OF FIRM, UNYIELDING NATIVE SOILS OR STRUCTURAL FILL MATERIALS. UNDER NO CIRCUMSTANCES SHALL FOUNDATIONS BE INSTALLED ATOP LOOSE, SOFT, OR FROZEN SOIL, SLOUGH, DEBRIS, EXISTING UNCONTROLLED FILL, OR SURFACES COVERED BY STANDING WATER. ANY LOCALIZED ZONES OF LOOSER GRANULAR SOILS OBSERVED WITHIN A SUBGRADE SHALL BE COMPACTED TO A DENSITY EQUAL TO THE SURROUNDING SOILS. ANY ORGANIC, SOFT, OR PUMPING SOILS OBSERVED WITHIN A SUBGRADE SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL MATERIAL. SUBGRADE CONDITION SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER OR SPECIAL INSPECTOR PRIOR TO PLACING STRUCTURAL FILL.

MONITORING WELL DECOMMISSIONING NOTES

1. WORK MUST BE COMPLETED BY A WELL DRILLER LICENSED AND BONDED UNDER CHAPTER 18.104 RCW.
2. DECOMMISSIONING MUST BE COMPLETED IN ACCORDANCE WITH WAC 173-160-460 AND ASSOCIATED PROVISIONS OF CHAPTER 173-160 WAC, INCLUDING REPORTING TO ECOLOGY (SEE BELOW).
3. PRIOR TO DECOMMISSIONING, THE DRILLER WILL NEED TO FILE A NOTICE OF INTENT (NOI) WITH ECOLOGY AT LEAST 72 HOURS IN ADVANCE AND PAY ASSOCIATED FEES.
4. AFTER DECOMMISSIONING IS COMPLETE, THE DRILLER WILL NEED TO FILE A WELL LOG DOCUMENTING THE DECOMMISSIONING.
5. THE PROTECTIVE BOLLARDS AND LOCKABLE SURFACE CASING WILL ALSO NEED TO BE REMOVED.

Call 811 two business days before you dig

APPROVED
BY ______ CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE ______
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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

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SEAL
DAVID FILLMORE STATE OF WASHINGTON 49452 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

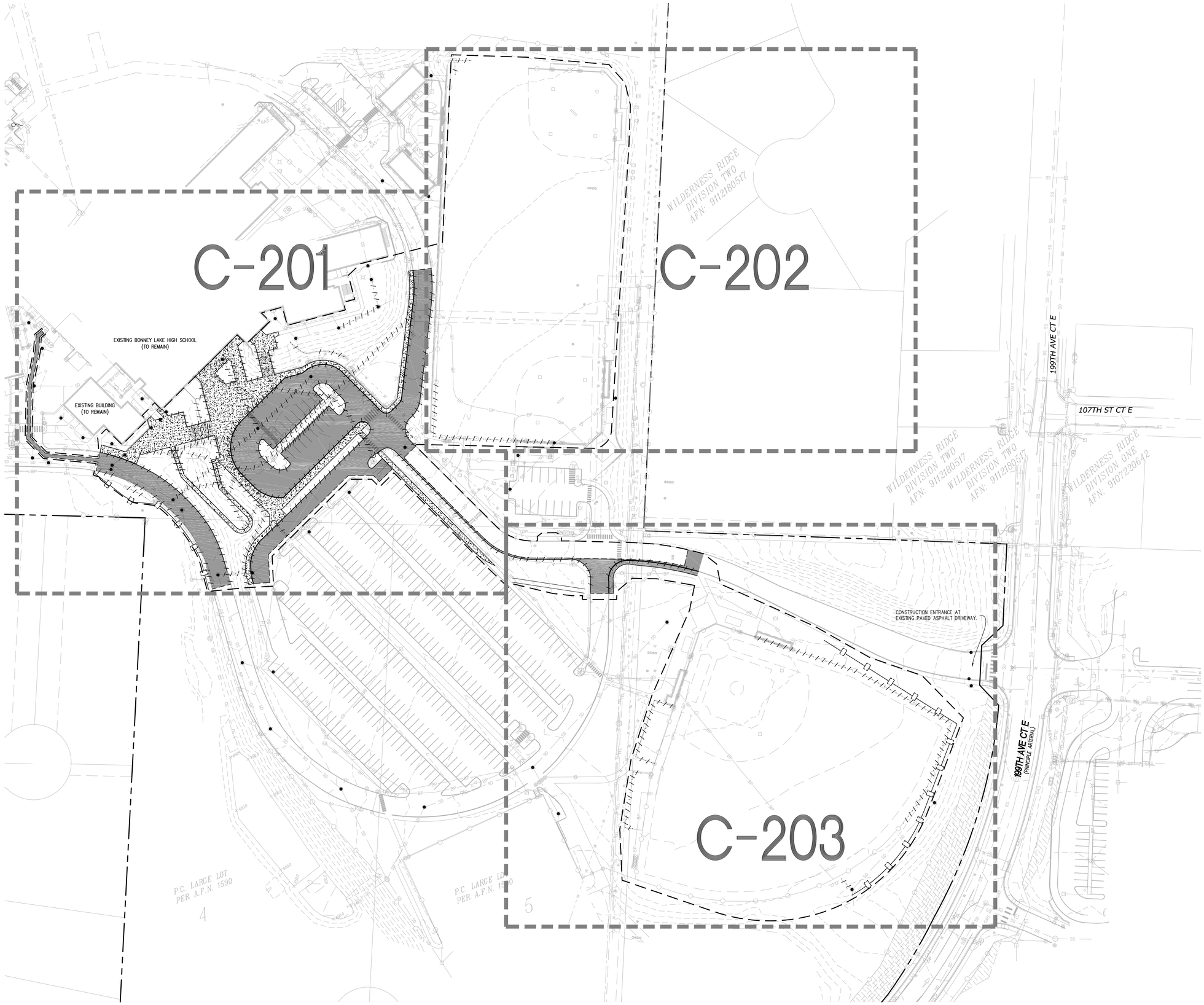
DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
PROJECT NOTES

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SHEET
C-100

DESIGN DEVELOPMENT

30x42



OVERALL DEMOLITION AND TESC PLAN

SCALE: 1"=50'

HORIZONTAL SCALE: 1"=50'

50 0 50 100

NORTH

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SEAL

DAVID FILLMORE
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
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REVISIONS

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OVERALL DEMOLITION
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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

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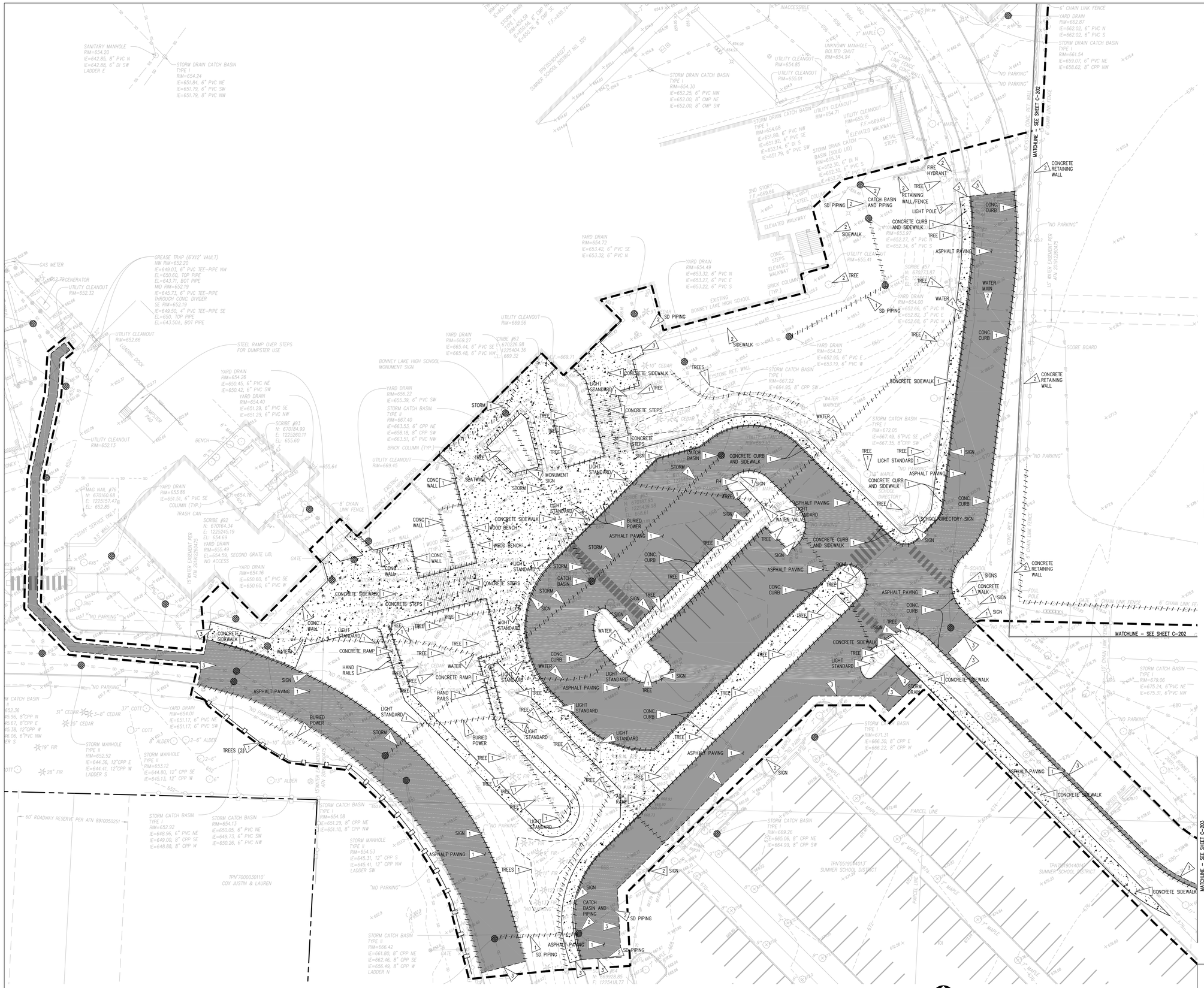
SHEET

C-200

DESIGN DEVELOPMENT

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3643



LEGEND

PROPOSED FEATURES-

- PROPERTY LINE
- CLEARING LIMITS
- SILT FENCE (06/C-204)
- SAWCUT
- DEMOLISH FEATURE NOTED ON PLAN
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- CATCH BASIN (CB) PROTECTION (01/C-204, 02/C-204, 03/C-204)
- TREE REMOVAL

GENERAL NOTES

1. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS, OR NOT, BY POTHOLING THE UTILITIES AND DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT SITTS & HILL ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SURVEY SHEETS INCLUDED WITH THIS PLAN SET FOR ADDITIONAL INFORMATION, INCLUDING HORIZONTAL AND VERTICAL DATUM.
3. SEE SHEET C-100 FOR PROJECT NOTE REQUIREMENTS.
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6. FOR ALL DISTURBED AREAS TO BE SURFACED WITH LANDSCAPING, THE CONTRACTOR SHALL AMEND SOILS IN ACCORDANCE WITH BMP T5.13. REFERENCE LANDSCAPE PLANS.
7. WHERE STOCKPILING IS NECESSARY, PROTECT WITH PLASTIC COVERING PER DETAIL 05/C-204.
8. THE CONTRACTOR SHALL PRESERVE TREES AND VEGETATION, AS REQUIRED ON THE LANDSCAPING TREE RETENTION PLANS. PROVIDE TREE PROTECTION AT TREES TO REMAIN THAT ARE WITHIN THE PROJECT LIMITS PER DETAIL 08/C-204.
9. WHERE PLANS CALL FOR THE REMOVAL OF TREES, THE CONTRACTOR SHALL REMOVE THE TREE, STUMP, AND ROOTS. REFERENCE SURVEY SHEETS FOR SIZE AND BACKFILL WITH STRUCTURAL FILL AND COMPACT TO 95% MAXIMUM DENSITY.
10. ALL MATERIALS SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

KEY NOTES

1. DEMOLISH FEATURE NOTED AND DISPOSE OF AT AN APPROVED OFFSITE FACILITY.
2. PROTECT EXISTING FEATURE NOTED.
3. SAWCUT TO SMOOTH, UNYIELDING EDGE (FULL-DEPTH).
4. SALVAGE EXISTING FEATURE NOTED. STORE AND PROTECT FOR FUTURE RE-INSTALLATION.

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SEAL

DAVID FILLMORE — STATE OF WASHINGTON — 21809 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
DEMOLITION AND TESC PLAN

811 Call 811 two business days before you dig

APPROVED
BY _____ CITY OF BONNEY LAKE CITY ENGINEER, PE
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4615 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

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SHEET
C-201

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY



DEMOLITION AND TESC PLAN

SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'

20 0 20 40

NORTH

LEGEND

PROPOSED FEATURES-

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- SILT FECTION (06 C-204)
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SEAL

DAVID FILLMORE STATE OF WASHINGTON 22882 REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT:
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E.
BONNEY LAKE, WA 98391

REVISIONS

DATE: 3.2.2026

BCRA NO.: 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE:
DEMOLITION AND TESC PLAN

811 Call 811 two business days before you dig

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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

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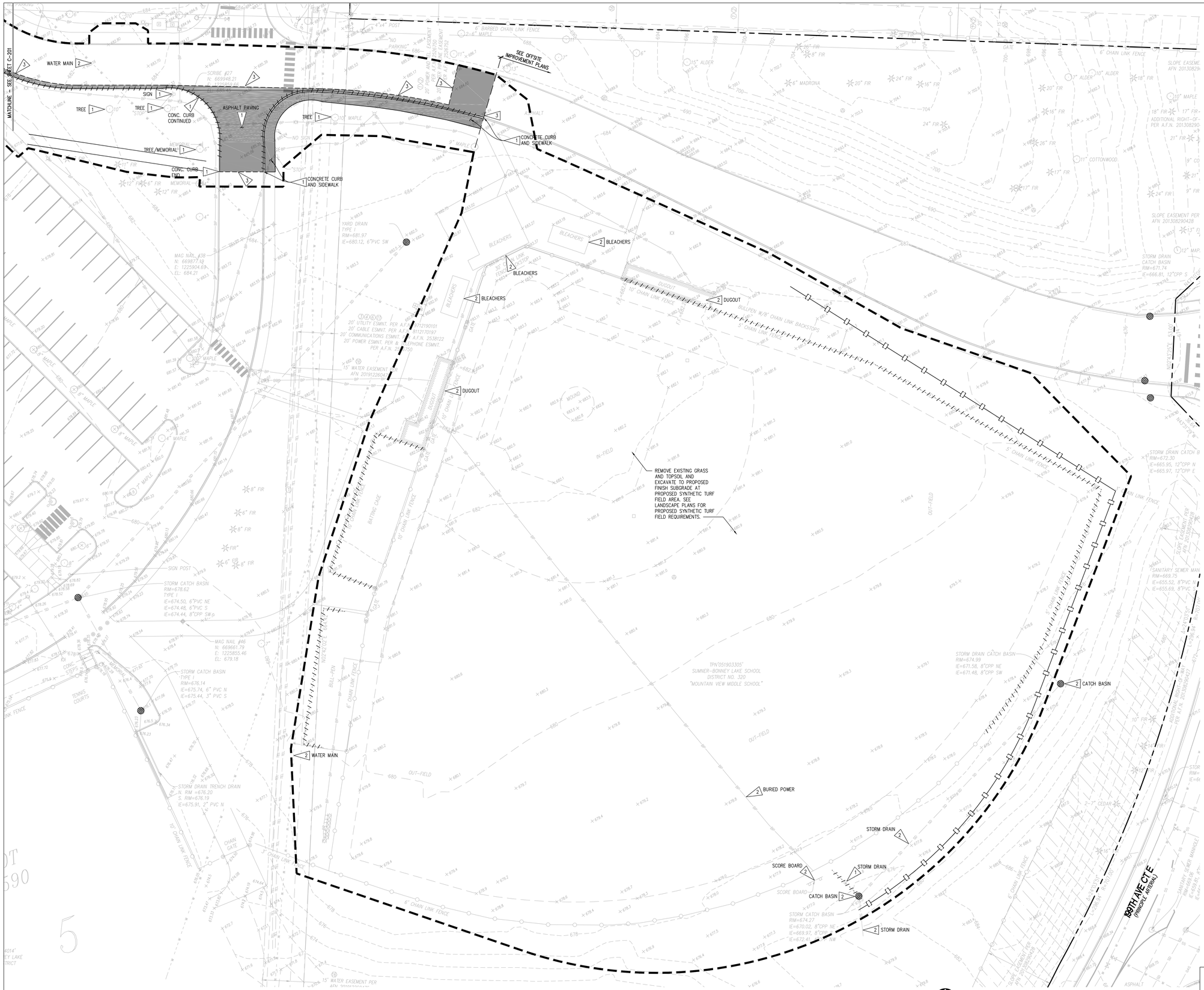
SHEET

C-202

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42



LEGEND

PROPOSED FEATURES:

- PROPERTY LINE
- CLEARING LIMITS
- SILT FENCE (06/C-204)
- SAWCUT
- DEMOLISH FEATURE NOTED ON PLAN
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- CATCH BASIN (CB) PROTECTION (01/C-204, 02/C-204, 03/C-204)
- TREE REMOVAL

GENERAL NOTES

1. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS, OR NOT, BY POTHOLING THE UTILITIES AND DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT SITTS & HILL ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SURVEY SHEETS INCLUDED WITH THIS PLAN SET FOR ADDITIONAL INFORMATION, INCLUDING HORIZONTAL AND VERTICAL DATUM.
3. SEE SHEET C-100 FOR PROJECT NOTE REQUIREMENTS.
4. THE CONTRACTOR SHALL SWEEP EXISTING ONSITE PAVEMENTS TO REMAIN, AS NECESSARY TO KEEP THEM IN A SUBSTANTIALLY SEDIMENT FREE CONDITION AND AS NECESSARY TO PREVENT TRACK-OUT ONTO ADJACENT PAVEMENTS WITHIN THE RIGHT-OF-WAY.
5. ANY EXPOSED SOIL REQUIRING STABILIZATION DUE TO POOR WEATHER CONDITIONS, OR LEFT UNWORKED FOR MORE THAN 2 DAYS FROM OCTOBER 1 TO MARCH 31 (7 DAYS FROM APRIL 1 TO SEPTEMBER 30), SHALL BE COVERED AT THE END OF EACH WORK SHIFT.
6. FOR ALL DISTURBED AREAS TO BE SURFACED WITH LANDSCAPING, THE CONTRACTOR SHALL AMEND SOILS IN ACCORDANCE WITH BMP T5.13. REFERENCE LANDSCAPE PLANS.
7. WHERE STOCKPILING IS NECESSARY, PROTECT WITH PLASTIC COVERING PER DETAIL 05/C-204.
8. THE CONTRACTOR SHALL PRESERVE TREES AND VEGETATION, AS REQUIRED ON THE LANDSCAPING TREE RETENTION PLANS. PROVIDE TREE PROTECTION AT TREES TO REMAIN THAT ARE WITHIN THE PROJECT LIMITS PER DETAIL 08/C-204.
9. WHERE PLANS CALL FOR THE REMOVAL OF TREES, THE CONTRACTOR SHALL REMOVE THE TREE, STUMP, AND ROOTS. REFERENCE SURVEY SHEETS FOR SIZE AND BACKFILL WITH STRUCTURAL FILL AND COMPACT TO 95% MAXIMUM DENSITY.
10. ALL MATERIALS SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

KEY NOTES

1. DEMOLISH FEATURE NOTED AND DISPOSE OF AT AN APPROVED OFFSITE FACILITY.
2. PROTECT EXISTING FEATURE NOTED.
3. SAWCUT TO SMOOTH, UNYIELDING EDGE (FULL-DEPTH).

DEMOLITION AND TESC PLAN
SCALE: 1"=20'

Call 811 two business days before you dig

APPROVED
BY _____ CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____
NOTE: This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans. Field conditions may dictate changes to these plans as determined by the City Engineer.

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PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

bcra
T 253.627.4367 F 253.627.4368 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 200, TACOMA, WA 98402

DAVID F. KNUDSEN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

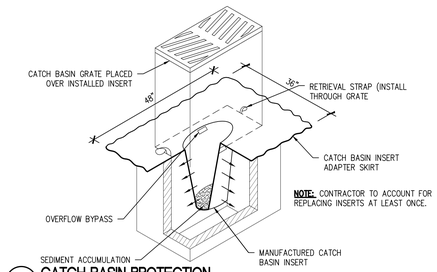
PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

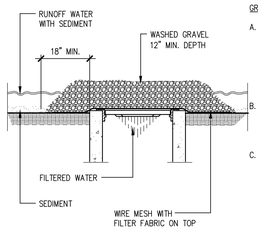
DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
DEMOLITION AND TESC PLAN

bcra
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SHEET
C-203
DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY



01 CATCH BASIN PROTECTION
SCALE: N.T.S.



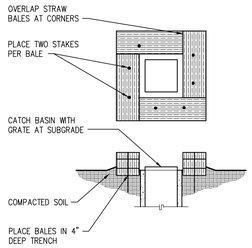
GRAVEL AND WIRE MESH FILTER

A. PLACE WIRE MESH OVER THE CATCH BASIN SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE CATCH BASIN. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.

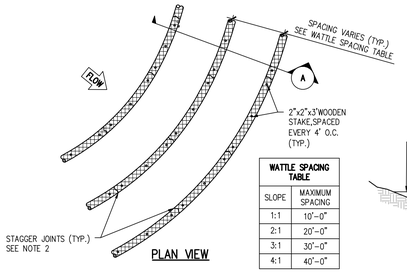
B. PLACE 3/4 TO 3 INCH GRAVEL OVER THE FILTER/WIRE MESH. THE DEPTH OF WASHED GRAVEL SHOULD BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING.

C. IF THE WASHED GRAVEL FILTER BECOMES CLOGGED WITH SEDIMENT, THE WASHED GRAVEL MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED. SINCE CLEANING OF WASHED GRAVEL AT A CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE TO USE THE CLOGGED WASHED GRAVEL AS FILL AND PUT FRESH WASHED GRAVEL AROUND THE INLET.

02 CB PROTECTION DETAIL
SCALE: N.T.S.

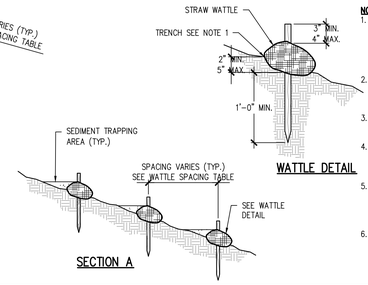


03 SEDIMENT BARRIER DETAIL
SCALE: N.T.S.



PLAN VIEW

WATTLE SPACING TABLE	
SLOPE	MAXIMUM SPACING
1:1	10'-0"
2:1	20'-0"
3:1	30'-0"
4:1	40'-0"



WATTLE DETAIL

SECTION A

NOTES:
1. WATTLES SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(5). INSTALL WATTLES ALONG CONTOURS. INSTALLATION SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(10).
2. SECURELY KNOT EACH END OF WATTLE, ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
3. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL WHEN CONDITIONS REQUIRE.
4. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATION AND SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(6).
5. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
6. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

04 STRAW WATTLES
SCALE: N.T.S.

ISOMETRIC VIEW

SECTION A-A
OVERLAP DETAIL

05 PLASTIC COVERING
SCALE: N.T.S.

ELEVATION

NOTE:
1. PLACE 1' OF 3/4" - 1-1/2" WASHED ROCK OR PEA-GRAVEL ON BOTH SIDES OF FENCE TO CREATE A BEVEL SHAPE.
2. FABRIC SHALL COVER BOTTOM OF 6"x6" TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2" MINIMUM AS SHOWN IN TYPICAL CROSS-SECTION.

TYPICAL CROSS-SECTION

06 SILT FENCE
SCALE: N.T.S.

07 CONSTRUCTION ENTRANCE ROCK PAD
SCALE: N.T.S.

08 TREE PROTECTION DETAIL
SCALE: N.T.S.

NOTES:
1. TEMPORARY BALLAST MAY BE OVERLAIN BY PAVEMENT SUBGRADE PROVIDED SPECIFIED COMPACTION REQUIREMENTS ARE ACHIEVED FOR THE FINAL PAVING SECTION.
2. BALLAST IN ALL LANDSCAPE AREAS SHALL BE REMOVED; COMPACTED SOIL SCARIFIED BELOW ALL LANDSCAPE AREAS PRIOR TO INSTALLATION OF LANDSCAPING.

09 ALL WEATHER BUILDING PERIMETER PAD AND LAYDOWN AREA
SCALE: N.T.S.

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2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

STATE OF WASHINGTON
KIRK L. KNUTSON
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E.
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
DEMOLITION AND TESC DETAILS

811 Call 811 two business days before you dig

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____
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PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
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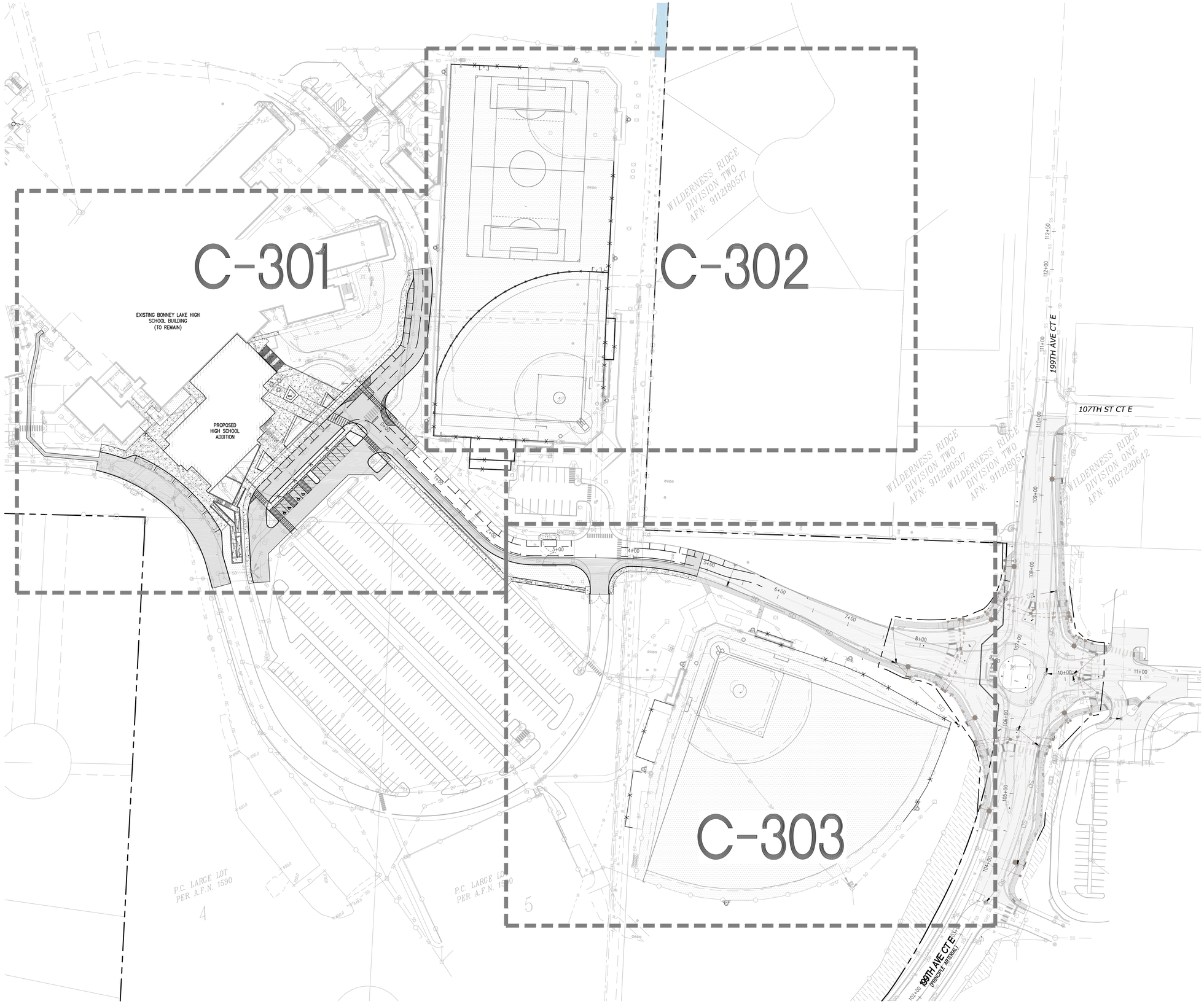
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SHEET
C-204

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42



OVERALL SURFACING AND LAYOUT PLAN

SCALE: 1"=50'

HORIZONTAL SCALE: 1"=50'

50 0 50 100

NORTH

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2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

DAVID F. LILLQUIST — STATE OF WASHINGTON — 19662 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
OVERALL SURFACING AND LAYOUT PLAN

811 Call 811 two business days before you dig

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PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

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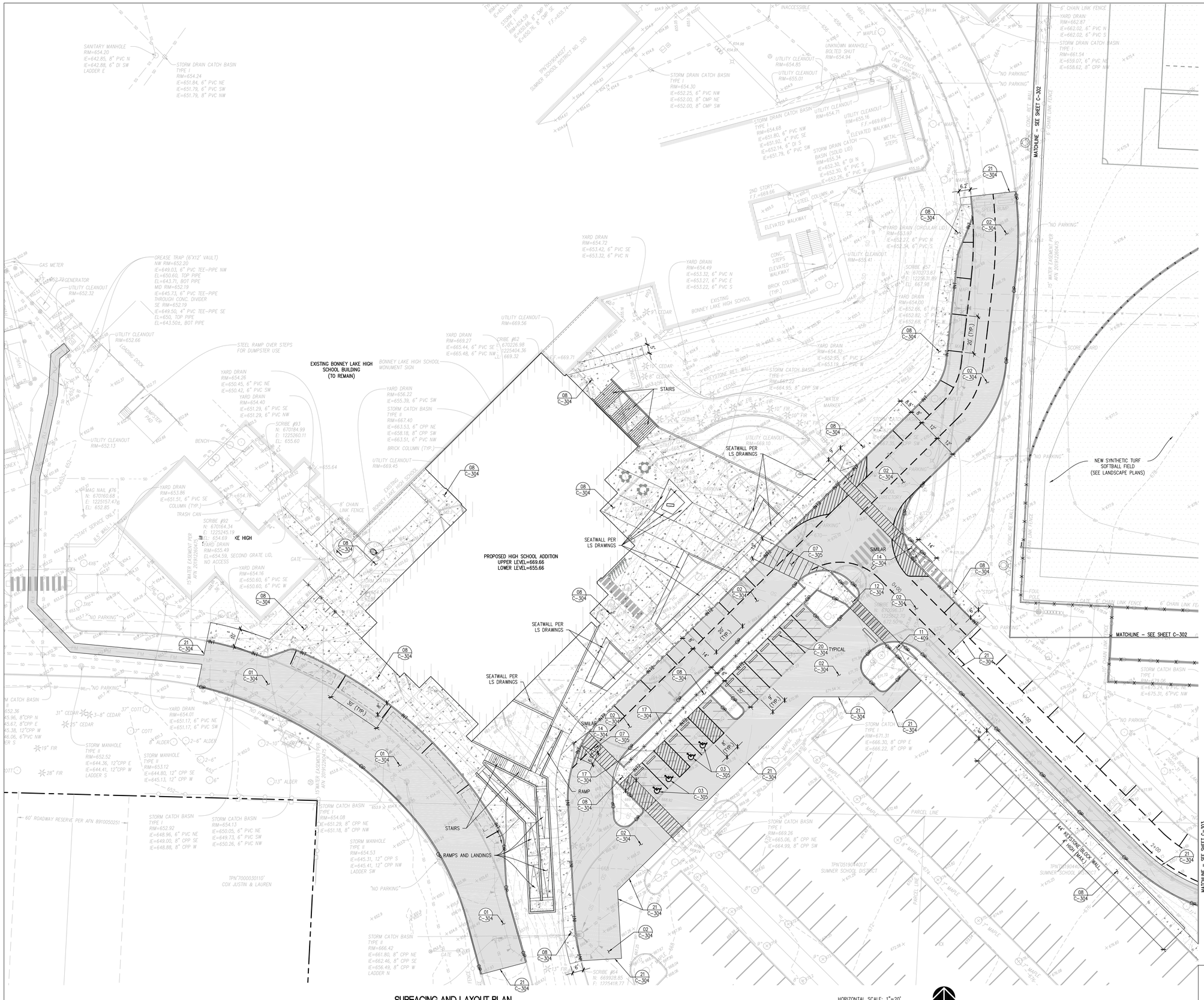
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SHEET
C-300

DESIGN DEVELOPMENT

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3640



SURFACING AND LAYOUT PLAN

SCALE: 1"=20'

LEGEND

PROPOSED FEATURES-

- HEAVY DUTY ASPHALT PAVEMENT (01 C-304)
- MEDIUM DUTY ASPHALT PAVEMENT (02 C-304)
- LIGHT DUTY ASPHALT PAVEMENT (03 C-304)
- CONCRETE WALK (08 C-304)
- HEAVY DUTY CONCRETE (05 C-304)
- DETECTABLE WARNING (12 C-304)
- INT – INTEGRAL CURB AND SIDEWALK (06 C-304)
- INT2 – FLUSH INTEGRAL CURB AND SIDEWALK (07 C-304)
- CIP – CAST IN PLACE CONC. CURB (15 C-304)
- X – FENCE/GATES, SEE LANDSCAPING PLANS & DETAILS
- PAINT LINE
- ADA PARKING STALL PAINTED SYMBOL (03 C-305)
- WHEEL STOP (20 C-304)
- TRAFFIC ARROW (04 C-305)
- SIGN PER PLAN CALLOUT, MOUNTED PER DETAIL 07/C-410

GENERAL NOTES

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12. PROVIDE CONCRETE COLLAR AT CATCH BASINS IN LANDSCAPED AREAS PER DETAIL 19/C-304. SEE GRADING AND DRAINAGE SHEETS FOR STORM DRAIN STRUCTURE TYPES.

811 Call 811 two business days before you dig

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____
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PHONE: (253) 474-9449 | www.sittshill.com

Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

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SEAL

DAVID F. DILLMORE – STATE OF WASHINGTON – 22888 – REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10820 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

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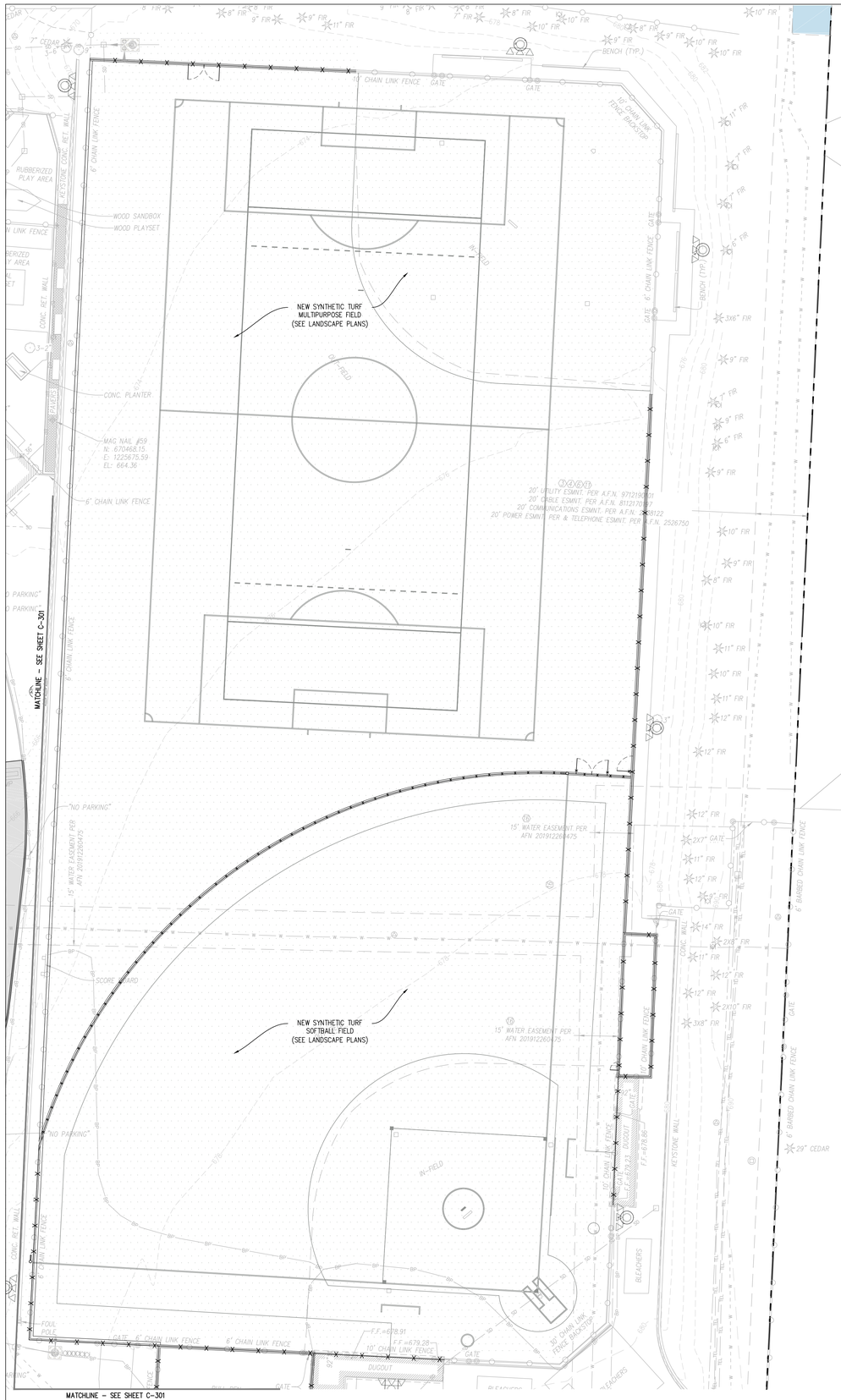
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SHEET
C-301

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42



SURFACING AND LAYOUT PLAN

SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'

20 0 20 40

NORTH

LEGEND

PROPOSED FEATURES-

- HEAVY DUTY ASPHALT PAVEMENT (01/C-304)
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- LIGHT DUTY ASPHALT PAVEMENT (03/C-304)
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- CIP - CAST IN PLACE CONC. CURB (15/C-304)
- X - FENCE/GATES, SEE LANDSCAPING PLANS & DETAILS
- PAINT LINE
- ADA PARKING STALL PAINTED SYMBOL (03/C-305)
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SEAL

DAVID F. DILLMORE
STATE OF WASHINGTON
PRELIMINARY
NOT REGISTERED PROFESSIONAL ENGINEER

PROJECT
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BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
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REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
SURFACING AND LAYOUT PLAN

811 Call 811 two business days before you dig

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DATE _____

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

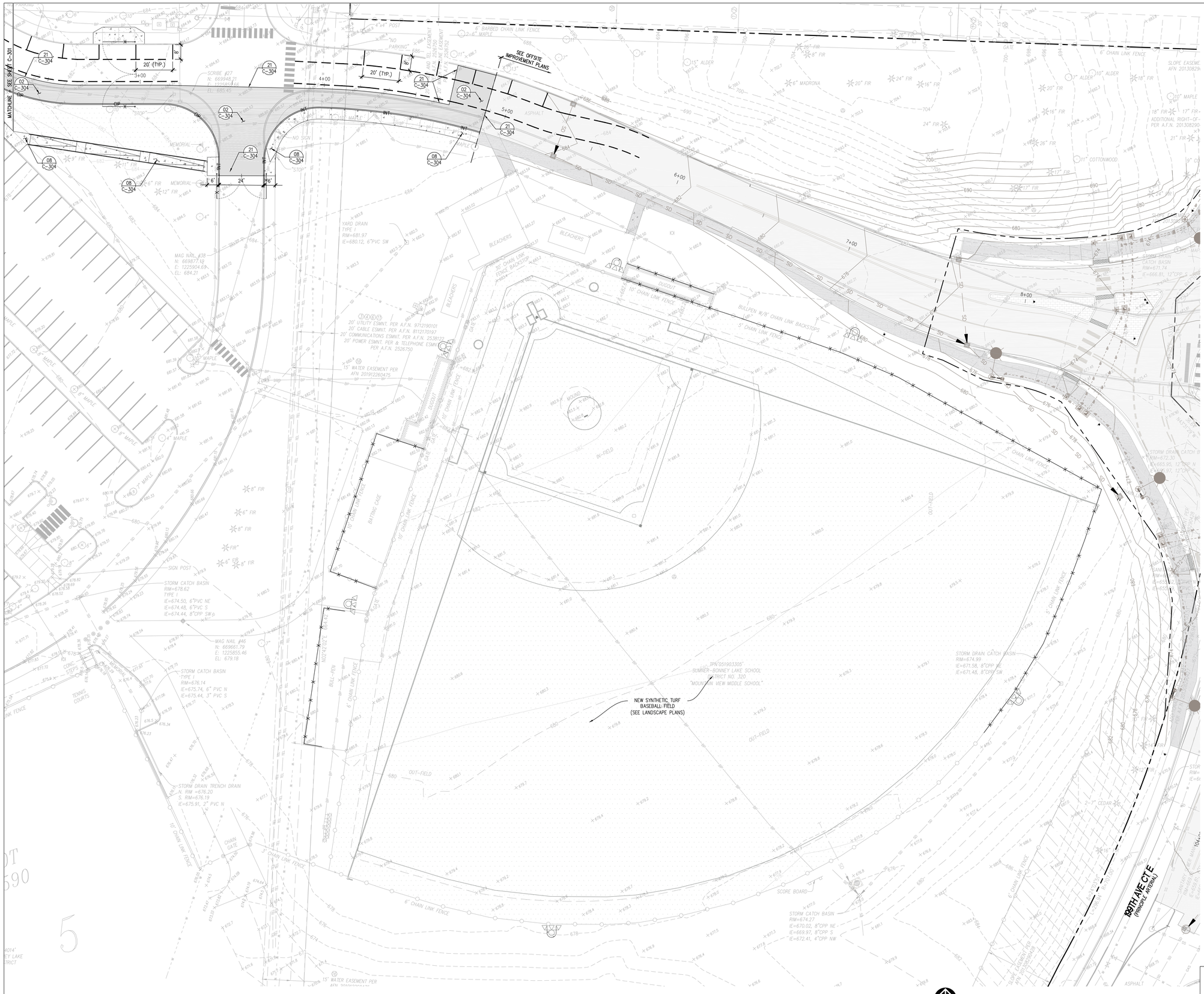
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SHEET
C-302

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

3/4/25



LEGEND

PROPOSED FEATURES-

- HEAVY DUTY ASPHALT PAVEMENT (01/C-304)
- MEDIUM DUTY ASPHALT PAVEMENT (02/C-304)
- LIGHT DUTY ASPHALT PAVEMENT (03/C-304)
- CONCRETE WALK (08/C-304)
- HEAVY DUTY CONCRETE (05/C-304)
- DETECTABLE WARNING (12/C-304)
- INT — INTEGRAL CURB AND SIDEWALK (06/C-304)
- INT2 — FLUSH INTEGRAL CURB AND SIDEWALK (07/C-304)
- CIP — CAST IN PLACE CONC. CURB (15/C-304)
- X — FENCE/GATES, SEE LANDSCAPING PLANS & DETAILS
- PAINT LINE
- ADA PARKING STALL PAINTED SYMBOL (03/C-305)
- WHEEL STOP (20/C-304)
- TRAFFIC ARROW (04/C-305)
- SIGN PER PLAN CALLOUT, MOUNTED PER DETAIL 07/C-410

GENERAL NOTES

1. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS, OR NOT, BY POTHOLING THE UTILITIES AND DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CONTRACTING WITH A PRIVATE UTILITY LOCATOR, CALLING UTILITY LOCATE AT 811, AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT SITTS & HILL ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SURVEY SHEETS INCLUDED WITH THIS PLAN SET FOR ADDITIONAL INFORMATION, INCLUDING HORIZONTAL AND VERTICAL DATUM.
3. SEE SHEETS C-100 FOR PROJECT NOTE REQUIREMENTS.
4. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB, WALL, FLOWLINE OR FACE OF SIDEWALK, UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS SHALL BE PAINT APPLIED IN TWO (2) APPLICATIONS. THE TIME PERIOD BETWEEN APPLICATIONS SHALL BE IN ACCORDANCE WITH WSDOT SPECIFICATION SECTION 8-22.3. PARKING STALL PAINT STRIPING SHALL BE 4" WIDE WHITE PAINT.
6. SEE LANDSCAPE PLANS FOR LANDSCAPING, IRRIGATION, NON-VEHICULAR PAVEMENT PAINT, FENCING, GATES AND OTHER SURFACE FEATURES SHOWN HEREON.
7. SEE ARCHITECTURAL PLANS FOR STEM WALLS, FURNISHING AND LAYOUT DIMENSIONS NOT SHOWN ON THESE PLANS.
8. WHERE CONFLICTS OCCUR BETWEEN PLACEMENT OF NEW SITE FEATURES AND EXISTING SITE FEATURES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
9. CATCH BASIN STENCILING SHALL BE APPLIED AT ALL CATCH BASINS (WITH A GRATE) IN PAVED AREAS PER DETAIL 05/C-305.
10. SEE LANDSCAPE PLANS FOR CONCRETE WALK DIMENSIONS/JOINT PATTERN AND FOR SURFACE RESTORATION REQUIREMENTS BEYOND THE PROPOSED PAVING LIMITS.
11. THE CONTRACTOR SHALL ADJUST OR SET FRAMES OF THE EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
12. PROVIDE CONCRETE COLLAR AT CATCH BASINS IN LANDSCAPED AREAS PER DETAIL 19/C-304. SEE GRADING AND DRAINAGE SHEETS FOR STORM DRAIN STRUCTURE TYPES.

SURFACING AND LAYOUT PLAN

SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'

20 0 20 40

NORTH

811 Call 811 two business days before you dig

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

sitts&hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

bcra
T 253.627.4367 F 253.627.4295 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 200, TACOMA, WA 98402

SEAL

DARIN F. FILLMORE — STATE OF WASHINGTON — 24000 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
SURFACING AND LAYOUT PLAN

bcra

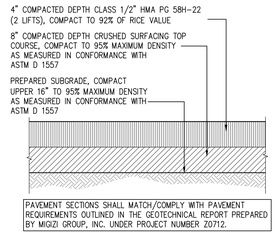
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SHEET
C-303

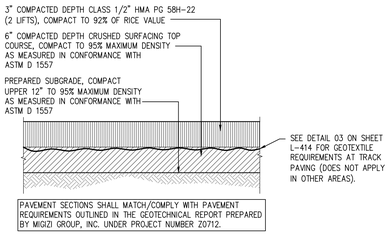
DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

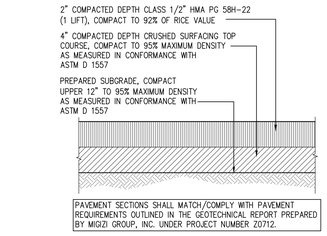
30x42



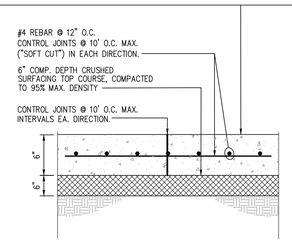
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SCALE: N.T.S.



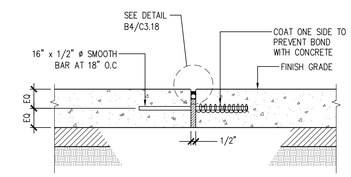
02 MEDIUM DUTY ASPHALT PAVEMENT SECTION
SCALE: N.T.S.



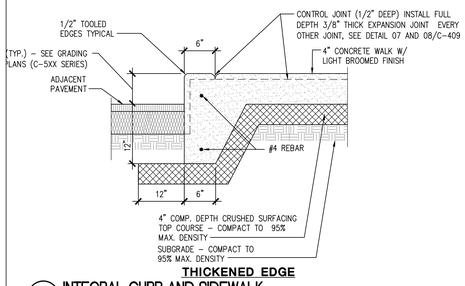
03 LIGHT DUTY ASPHALT PAVEMENT SECTION
SCALE: N.T.S.



04 HEAVY DUTY CONCRETE PAVEMENT
SCALE: N.T.S.



05 HEAVY DUTY CEMENT CONCRETE PAVEMENT EXPANSION JOINT DETAIL
SCALE: N.T.S.

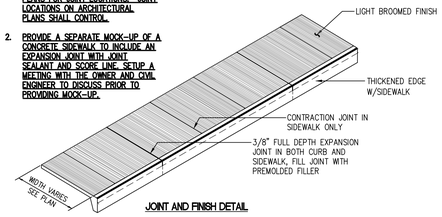


THICKENED EDGE

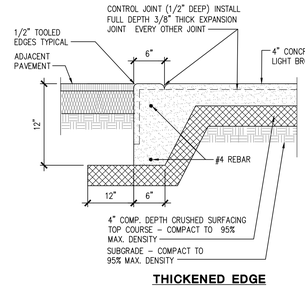
06 INTEGRAL CURB AND SIDEWALK
SCALE: N.T.S.

NOTES:

1. **COORDINATE WITH THE ARCHITECTURAL AND LANDSCAPE PLANS FOR JOINT LOCATIONS. JOINT LOCATIONS ON ARCHITECTURAL PLANS SHALL CONTROL.**
2. **PROVIDE A SEPARATE MOCK-UP OF A CONCRETE SIDEWALK TO INCLUDE AN EXPANSION JOINT WITH JOINT SEALANT AND SCORE LINE. SETUP A MEETING WITH THE OWNER AND CIVIL ENGINEER TO DISCUSS PRIOR TO PROVIDING MOCK-UP.**



JOINT AND FINISH DETAIL

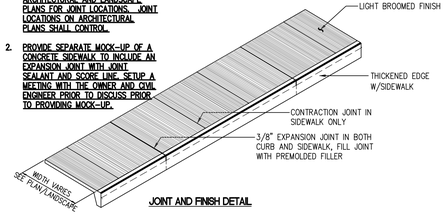


THICKENED EDGE

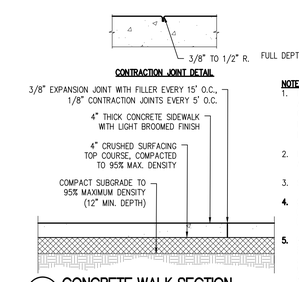
07 INTEGRAL CURB, AND SIDEWALK W/THICKENED EDGE CURB
SCALE: N.T.S.

NOTES:

1. **COORDINATE WITH THE ARCHITECTURAL AND LANDSCAPE PLANS FOR JOINT LOCATIONS. JOINT LOCATIONS ON ARCHITECTURAL PLANS SHALL CONTROL.**
2. **PROVIDE SEPARATE MOCK-UP OF A CONCRETE SIDEWALK TO INCLUDE AN EXPANSION JOINT WITH JOINT SEALANT AND SCORE LINE. SETUP A MEETING WITH THE OWNER AND CIVIL ENGINEER PRIOR TO DISCUSS PRIOR TO PROVIDING MOCK-UP.**



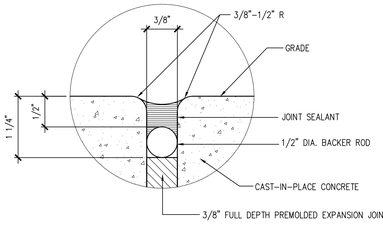
JOINT AND FINISH DETAIL



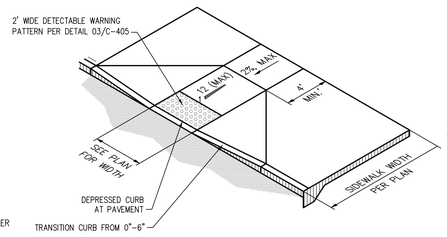
NOTES:

1. FULL DEPTH EXPANSION JOINTS SHALL BE PLACED ALONG SIDEWALKS AT 15' MAXIMUM SPACING. CONTRACTION JOINTS SHALL BE PLACED BETWEEN TH EXPANSION JOINTS AT A 5' MAXIMUM SPACING (SEE DETAILS).
2. FULL DEPTH EXPANSION JOINT SHOULD BE PROVIDED AS APPLICABLE BETWEEN SIDEWALK AND CURBS.
3. SLOPE ALL SIDEWALKS TO ROADWAY AT 2%.
4. **COORDINATE WITH THE ARCHITECTURAL AND LANDSCAPE PLANS FOR JOINT LOCATIONS. JOINT LOCATIONS ON ARCHITECTURAL PLANS SHALL CONTR**
5. **PROVIDE A SEPARATE MOCK-UP OF A CONCRETE SIDEWALK TO INCLUDE AN EXPANSION JOINT WITH JOINT SEALANT AND SCORE LINE. SETUP A MEETING WITH THE OWNER AND CIVIL ENGINEER TO DISCUSS PRIOR TO PROVIDING MOCK-UP.**

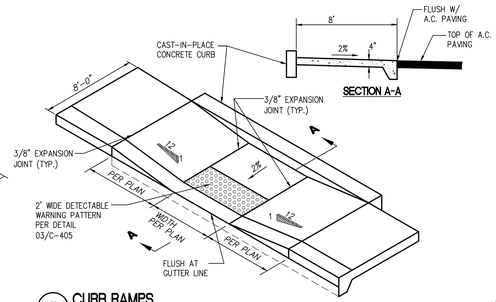
08 CONCRETE WALK SECTION
SCALE: N.T.S.



09 EXPANSION JOINT SEALANT DETAIL
SCALE: N.T.S.



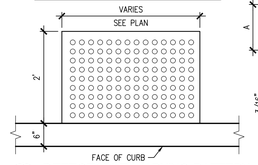
10 SIDEWALK RAMP
SCALE: N.T.S.



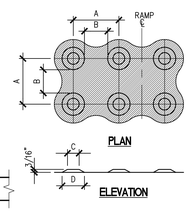
11 CURB RAMPS
SCALE: N.T.S.

DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW AND IN COMPLIANCE WITH WSDOT STANDARD SPECIFICATION SECTION 8-14.3(3).

DETECTABLE WARNING PATTERNS SHALL BE CREATED BY USING PRE-MANUFACTURED YELLOW TRUNCATED DOME RUBBER/PLASTIC UNITS. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. CAST IRON DETECTABLE WARNING IS REQUIRED AT THE SERVICE YARD ENTRY (TUFTILE OR APPROVED EQUAL).



DETECTABLE WARNING PATTERN DETAIL

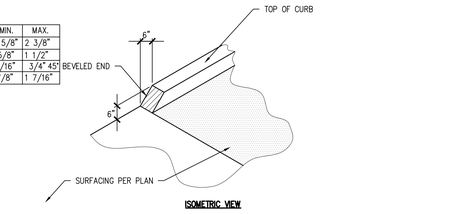


PLAN

ELEVATION

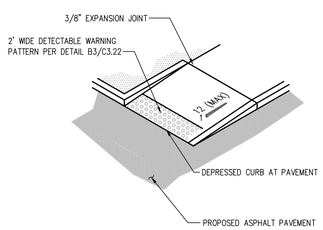
	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4" 45° BEVELED END
D	7/8"	1 7/16"

12 DETECTABLE WARNING PATTERN AND RAMP TEXTURE DETAIL
SCALE: N.T.S.

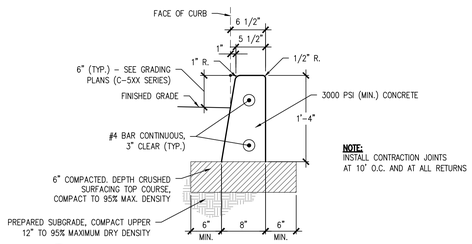


ISOMETRIC VIEW

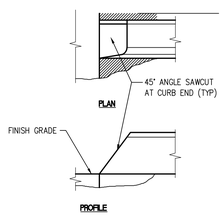
13 CURB END DETAIL
SCALE: N.T.S.



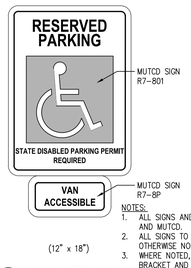
14 SIDEWALK RAMP
SCALE: N.T.S.



15 CAST-IN-PLACE CONCRETE CURB
SCALE: N.T.S.



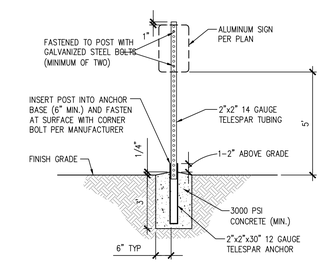
16 CONCRETE CURB END DETAIL
SCALE: N.T.S.



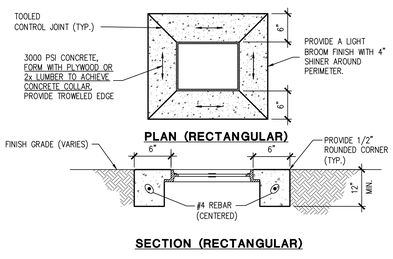
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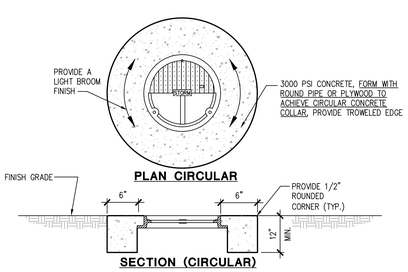
1. ALL SIGNS AND STRIPING SHALL BE INSTALLED PER WSDOT STANDARD PLANS AND MUTCD.
2. ALL SIGNS TO BE WHITE BACKGROUND WITH GREEN LETTERING, UNLESS OTHERWISE NOTED.
3. WHERE NOTED, MOUNT EACH SIGN TO CHAIN LINK FENCE WITH SIGN MOUNTING BRACKET AND HARDWARE. CONTRACTOR SHALL PROVIDE SUBMITTAL OF MOUNTING HARDWARE. SEE POST-MOUNTED DETAIL 18/C-304.

17 SIGN DETAILS
SCALE: N.T.S.

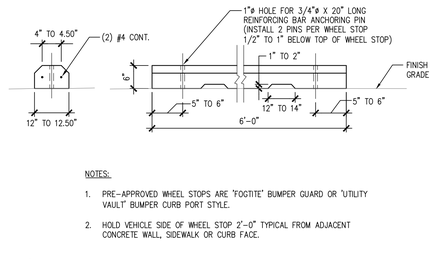


18 POST-MOUNTED SIGN DETAIL
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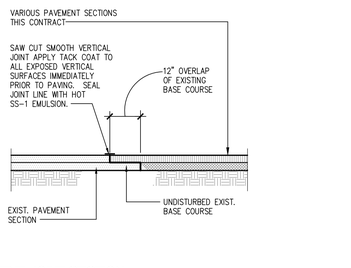
19 CB CONCRETE COLLAR
SCALE: N.T.S.



NOTES:

1. PRE-APPROVED WHEEL STOPS ARE 'FOGTITE' BUMPER GUARD OR 'UTILITY VAULT' BUMPER CURB PORT STYLE.
2. HOLD VEHICLE SIDE OF WHEEL STOP 2'-0" TYPICAL FROM ADJACENT CONCRETE WALL, SIDEWALK OR CURB FACE.

20 PRECAST CONCRETE WHEEL STOP
SCALE: N.T.S.



21 PAVEMENT JOINT SECTION
SCALE: N.T.S.

811 Call 811 two business days before you dig

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CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

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Field conditions may dictate changes to these plans as determined by the City Engineer.

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

bcra
T 253.627.4367 F 253.627.4368 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

DAVID FILLMORE PRELIMINARY STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

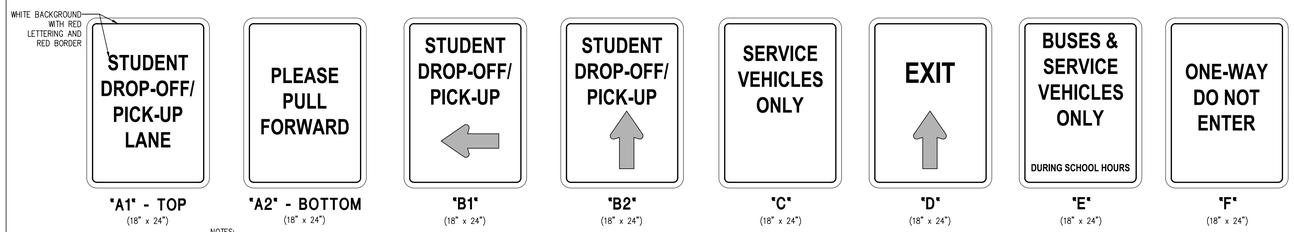
SHEET TITLE
SURFACING DETAILS

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SHEET
C-304

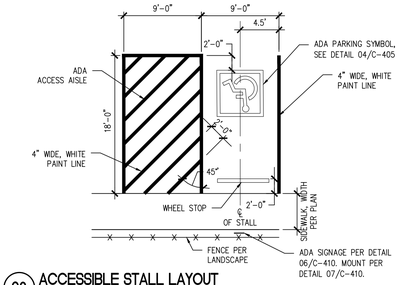
DESIGN DEVELOPMENT

30x42

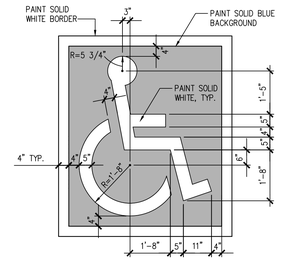


NOTES:
1. ALL SIGNS AND STRIPING SHALL BE INSTALLED PER WSDOT STANDARD PLANS AND MUTCD.
2. SEE SITE SURFACING AND LAYOUT PLANS FOR SIGN LOCATIONS.
3. ALL SIGNS TO BE WHITE BACKGROUND WITH BLACK LEGEND, UNLESS OTHERWISE NOTED.
4. MOUNT EACH SIGN TO POST PER DETAIL 07/C-410.
5. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.

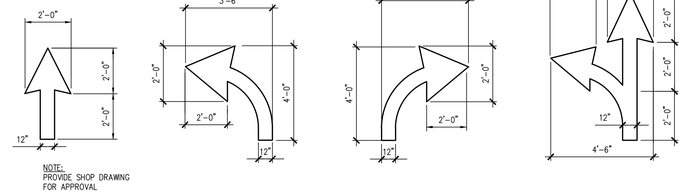
01 SIGN DETAILS
SCALE: N.T.S.



02 ACCESSIBLE STALL LAYOUT
SCALE: N.T.S.

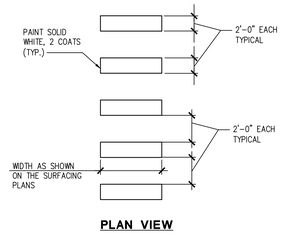


03 ADA PARKING STALL PAINTED SYMBOL
SCALE: N.T.S.



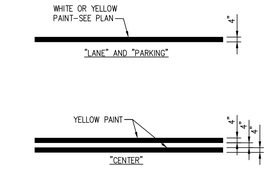
NOTE:
PROVIDE SHOP DRAWING FOR APPROVAL

04 DIRECTIONAL ARROW DIMENSIONING DETAIL
SCALE: N.T.S.

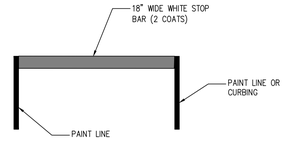


PLAN VIEW

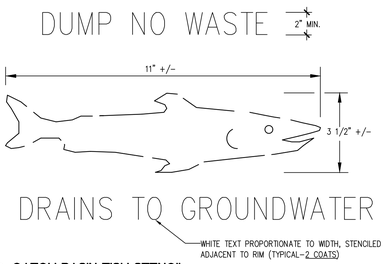
07 CROSSWALK/ADA ACCESS PAINT MARKINGS DETAIL
SCALE: N.T.S.



06 PAVEMENT MARKING DETAIL
SCALE: N.T.S.



07 PAVEMENT MARKING DETAIL
SCALE:N.T.S.



08 CATCH BASIN FISH STENCIL
SCALE: N.T.S.

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SEAL
DAVID FILLMORE STATE OF WASHINGTON 24962 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E.
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
SURFACING DETAILS

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4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY _____ CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____
NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
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SHEET
C-305

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

36x42



OVERALL GRADING AND DRAINAGE PLAN

SCALE: 1"=50'

HORIZONTAL SCALE: 1"=50'

50 0 50 100

NORTH

Call 811 two business days before you dig

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

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SEAL

DAVID FILLMORE
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
OVERALL GRADING
AND DRAINAGE PLAN

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SHEET
C-400

DESIGN DEVELOPMENT

30x42

STORM DRAIN STRUCTURE SCHEDULE				
ID	STRUCTURE	RIM	IE	N/E
BP SB	4X4 BIOPOD W/SOLID COVER	677.54	671.43 8" N (IN) 668.93 8" W (OUT)	N:670108.59 E:1225676.44
CB 100	TYPE 1 W/HERRINGBONE GRATE	654.75	651.25 6" SW (OUT)	N:670141.46 E:1225313.93
CB 101	TYPE 1 W/HERRINGBONE GRATE	654.11	651.52 8" N (OUT)	N:670007.30 E:1225328.54
CB 102	TYPE 1L W/HERRINGBONE GRATE	654.48	651.31 8" S (IN) 651.31 6" NW (OUT)	N:670029.70 E:1225321.49
CB 103	TYPE 1 W/HERRINGBONE GRATE	668.54	666.65 6" N (IN) 666.49 8" E (IN) 666.49 8" SW (OUT)	N:670123.68 E:1225514.12
CB 104	TYPE 1 W/HERRINGBONE GRATE	667.94	665.69 8" NE (IN) 665.69 8" S (OUT)	N:670060.83 E:1225479.40
CB 105	TYPE 1 W/HERRINGBONE GRATE	669.69	666.86 8" W (OUT)	N:670113.02 E:1225549.68
CB 106	TYPE 2-48" W/HERRINGBONE GRATE	666.42	664.03 8" N (IN) 661.80 8" NE (IN) 662.48 8" SE (IN) 656.49 8" W (OUT)	N:669932.87 E:1225427.09
CB 107	TYPE 1L W/HERRINGBONE GRATE	654.00	652.46 6" S (IN) 652.46 6" N (OUT)	N:670321.94 E:1225584.79
CB 108	TYPE 1L W/HERRINGBONE GRATE	673.27	667.69 8" E (IN) 667.69 8" SW (OUT)	N:670113.52 E:1225643.59
CB 109	TYPE 1L W/HERRINGBONE GRATE	654.37	652.68 6" SW (IN) 652.68 6" N (OUT)	N:670278.40 E:1225580.00
CB 110	TYPE 40 W/ADA GRATE	668.71	667.78 6" S (OUT)	N:670189.86 E:1225506.64

UTILITY CROSSING NOTES

1. BOT. 8" STORM: 666.5'
   TOP 8" WATER: 665.0'
   SEPARATION: 1.4'
2. BOT. 8" STORM: 666.1'
   TOP 8" WATER: 664.9'
   SEPARATION: 1.1'
3. BOT. 8" STORM: 664.3'
   TOP 8" WATER: 663.7'
   SEPARATION: 0.5'
   PROVIDED ETHAFOAM PAD AT CROSSING
4. BOT. 8" STORM: 664.1'
   TOP 8" WATER: 663.2'
   SEPARATION: 0.8'
   PROVIDED ETHAFOAM PAD AT CROSSING

LEGEND

PROPOSED FEATURES-

- SD — STORM DRAIN PIPE
- RD — ROOF DRAIN PIPE
- FD — FOOTING DRAIN
- GRADE BREAK
- FLOWLINE (FL)
- TYPE 1 CATCH BASIN, SEE DETAIL 02/C-407
- TYPE 2 CATCH BASIN, SEE DETAIL 05/C-407
- STORM DRAIN CLEANOUT (SDCO), SEE DETAIL 08/C-407
- DS — BUILDING DOWNSPOUT, SEE DETAIL 12/C-407
- TC — TOP OF CURB
- TA — TOP OF ASPHALT
- BC — BOTTOM OF CURB
- CL — CENTERLINE
- FL — FLOW LINE
- PC — POINT OF CURVATURE
- SURFACE RUNOFF DIRECTION

GENERAL NOTES

1. SEE C-1XX SERIES FOR PROJECT NOTE REQUIREMENTS.
2. SEE SHEET C-406 FOR STORM UTILITY PROFILES AND CROSSINGS. MAINTAIN 6" MINIMUM VERTICAL AND 3' MINIMUM HORIZONTAL CLEARANCES (OUTSIDE SURFACES) BETWEEN STORM DRAIN PIPES AND OTHER UTILITY PIPES AND CONDUITS, UNLESS OTHERWISE NOTED. SEE WATER PLANS FOR ADDITIONAL CROSSING INFORMATION.
3. ALL CATCH BASIN GRATES AND COVERS SHALL BE LOCKING BOLT DOWN GRATES AND COVERS (TYPE PER SCHEDULE). ADJUST OR SET THE FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES OR COVERS. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL LOCATIONS OF CATCH BASINS WITH RESPECT TO CURBING/CONCRETE PADS PRIOR TO CATCH BASIN PLACEMENT. STAKING OF PARTIAL CURBS/PADS AT TIME OF CATCH BASIN STAKING MAY BE NECESSARY.
4. SPOT ELEVATIONS ARE PROVIDED ON THE PLAN AT THE BOTTOM OF CURB, EDGE OF PAVEMENT, EDGE OF CONCRETE, OR BUILDING FACE UNLESS NOTED OTHERWISE.
5. TYPE 1 CATCH BASINS PER WSDOT STANDARD B-5.20-03, RECTANGULAR FRAME PER WSDOT STANDARD B-30.10-03, HERRINGBONE GRATE PER WSDOT STANDARD B-30.50-03, ADA GRATE PER WSDOT B-30.15-00 (ALT. 3/LOCKING), AND VANED GRATE PER WSDOT STANDARD B-30.30-03. GRATE/COVER REQUIREMENTS PER STRUCTURE SCHEDULE. SEE DETAILS 01, 02, 03, AND 04 ON SHEET C-407.
6. TYPE 2 CATCH BASINS PER WSDOT STANDARD B-10.20-03. GRATE/COVER REQUIREMENTS PER STRUCTURE SCHEDULE. SEE DETAILS 01, 03, 04, AND 05 ON SHEET C-407. PROVIDE STANDARD LADDER AT ALL TYPE 2 CB'S.
7. SANDED MANHOLE ADAPTERS SHALL BE USED AT ALL PIPE CONNECTIONS AT CATCH BASINS. GROUT INSIDE AND OUTSIDE OF STRUCTURE AT ADAPTER; TO BE INSPECTED BY ENGINEER PRIOR TO BACKFILLING AROUND CATCH BASINS.
8. STORM DRAIN (SD) PIPING SHALL BE CORRUGATED SMOOTH INTERIOR POLYETHYLENE PIPE (CPEP) PER WSDOT 9-05. INSTALL SD PIPING AT 0.50% MINIMUM SLOPE, TRENCH SECTION PER DETAIL 06/C-407.
9. PVC ROOF DRAIN (RD) PIPING AND STORM DRAIN (SD) PIPING (WHERE NOTED) SHALL BE 6" (MIN.) PVC SDR 35 GASKETED PIPE PER WSDOT 9-05.12(1). INSTALL AT 0.50% MINIMUM SLOPE. TRENCH SECTION PER DETAIL 06/C-407. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECTURAL AND DETAIL 12/C-407.
10. CONCRETE SIDEWALKS SHALL SLOPE TOWARDS THE ADJACENT ASPHALT AND AWAY FROM THE BUILDING AT 2.00% MAX.
11. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES AND DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS AND UTILITY CONNECTIONS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT SITTS & HILL ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL PROTECT OR IMMEDIATELY REPAIR ANY DAMAGED UTILITY 'DISCOVERED' ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
12. FOR ALL DISTURBED AREAS TO BE SURFACED WITH LANDSCAPING, THE CONTRACTOR SHALL AMEND SOILS IN ACCORDANCE WITH BMP T5.13 FROM THE 2024 ECOLOGY STORMWATER MANUAL. CONTRACTOR SHALL COORDINATE WITH LANDSCAPING PLANS FOR REQUIRED EXCAVATION TO SUBGRADE IN LANDSCAPE AREAS.
13. CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
14. FOOTING DRAIN (FD) LINES SHALL BE 6" PERFORATED PIPE UNLESS NOTED OTHERWISE. INSTALL FD PIPING PER DETAIL 12/C-407. TIGHTLINE FROM FD TO CB SHALL BE SOLID WALL PVC SDR-35.
15. CATCH BASIN STENCILING SHALL BE APPLIED AT ALL CATCH BASINS WITH A GRATE IN PAVED AREAS PER DETAIL 08/C-305.
16. PROVIDE CONCRETE COLLAR AT CATCH BASINS IN LAWN AREAS PER DETAIL 19/C-304.

KEY NOTES

1. CONNECT TO EXISTING STORM DRAIN STRUCTURE AT INVERT ELEVATION (IE) PER PLAN.
2. RECONNECT EXISTING STORM DRAIN PIPING TO PROPOSED STORM DRAIN STRUCTURE. SEE CATCH BASIN TABLE FOR INVERT ELEVATIONS.
3. CONNECT FIELD UNDERDRAIN TO STORM DRAIN PIPING. REFERENCE LANDSCAPE PLANS FOR FIELD UNDERDRAIN REQUIREMENTS.

GRADING AND DRAINAGE PLAN

SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'
20 0 20 40

NORTH

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____

NOTE:
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DAVID F. LINDSTROM
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

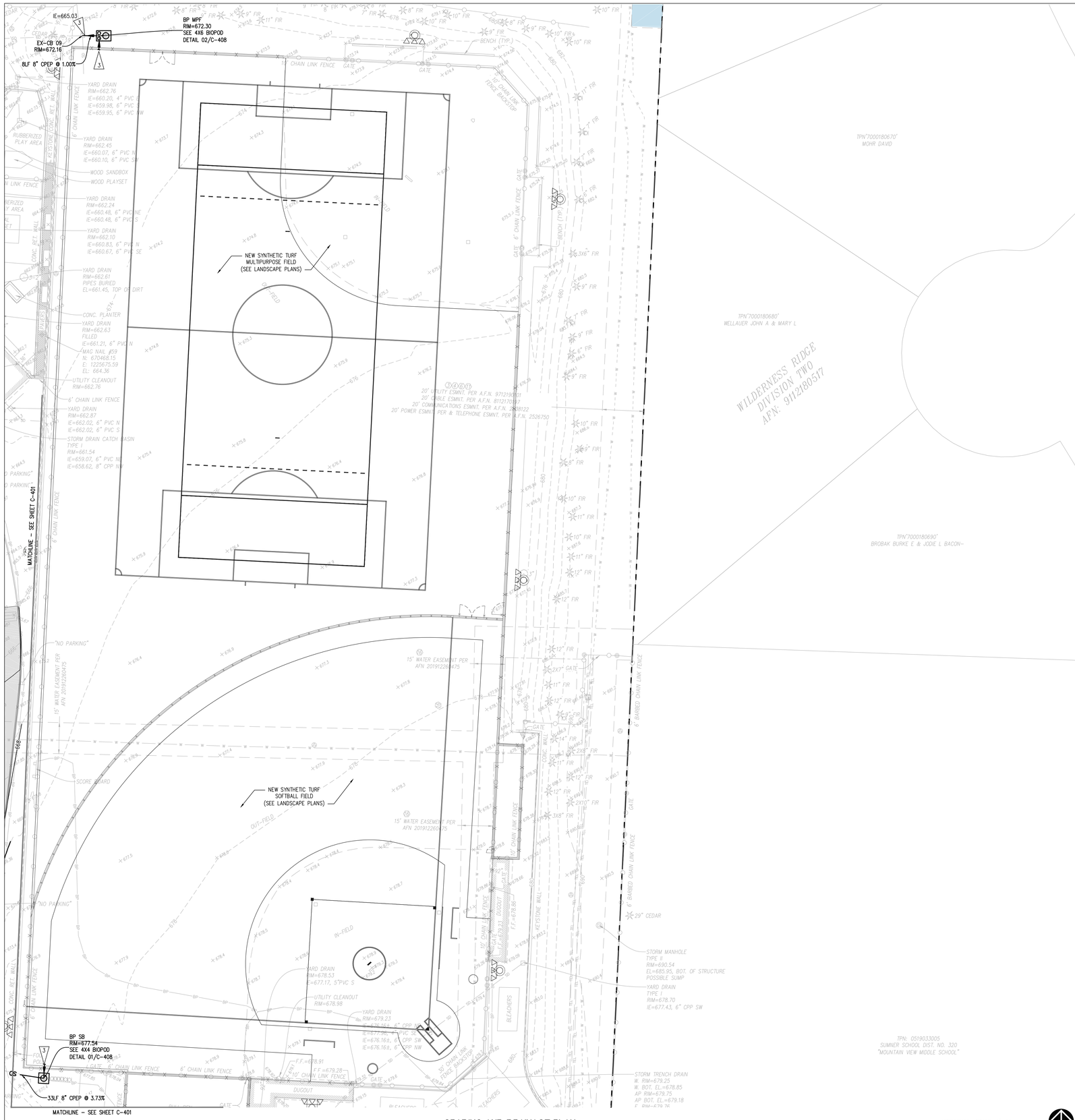
DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
GRADING AND DRAINAGE PLAN

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SHEET
C-401

DESIGN DEVELOPMENT

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GRADING AND DRAINAGE PLAN

SCALE: 1"=20'

LEGEND

PROPOSED FEATURES-

- SD — STORM DRAIN PIPE
- RD — ROOF DRAIN PIPE
- FD — FOOTING DRAIN
- GRADE BREAK
- FLOWLINE (FL)
- TYPE 1 CATCH BASIN, SEE DETAIL 02/C-407
- TYPE 2 CATCH BASIN, SEE DETAIL 05/C-407
- STORM DRAIN CLEANOUT (SDCO), SEE DETAIL 08/C-407
- DS — BUILDING DOWNSPOUT, SEE DETAIL 12/C-407
- TC — TOP OF CURB
- TA — TOP OF ASPHALT
- BC — BOTTOM OF CURB
- CL — CENTERLINE
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- PC — POINT OF CURVATURE

GENERAL NOTES

1. SEE C-1XX SERIES FOR PROJECT NOTE REQUIREMENTS.
2. SEE SHEET C-406 FOR STORM UTILITY PROFILES AND CROSSINGS. MAINTAIN 6" MINIMUM VERTICAL AND 3' MINIMUM HORIZONTAL CLEARANCES (OUTSIDE SURFACES) BETWEEN STORM DRAIN PIPES AND OTHER UTILITY PIPES AND CONDUITS, UNLESS OTHERWISE NOTED. SEE WATER PLANS FOR ADDITIONAL CROSSING INFORMATION.
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APPROVED
BY _____
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CITY ENGINEER, PE
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Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

bcra
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2106 PACIFIC AVENUE, SUITE 200, TACOMA, WA 98402

SEAL

DAVID FILIPOVICH
STATE OF WASHINGTON
PRELIMINARY
REGISTERED PROFESSIONAL ENGINEER

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
GRADING AND DRAINAGE PLAN

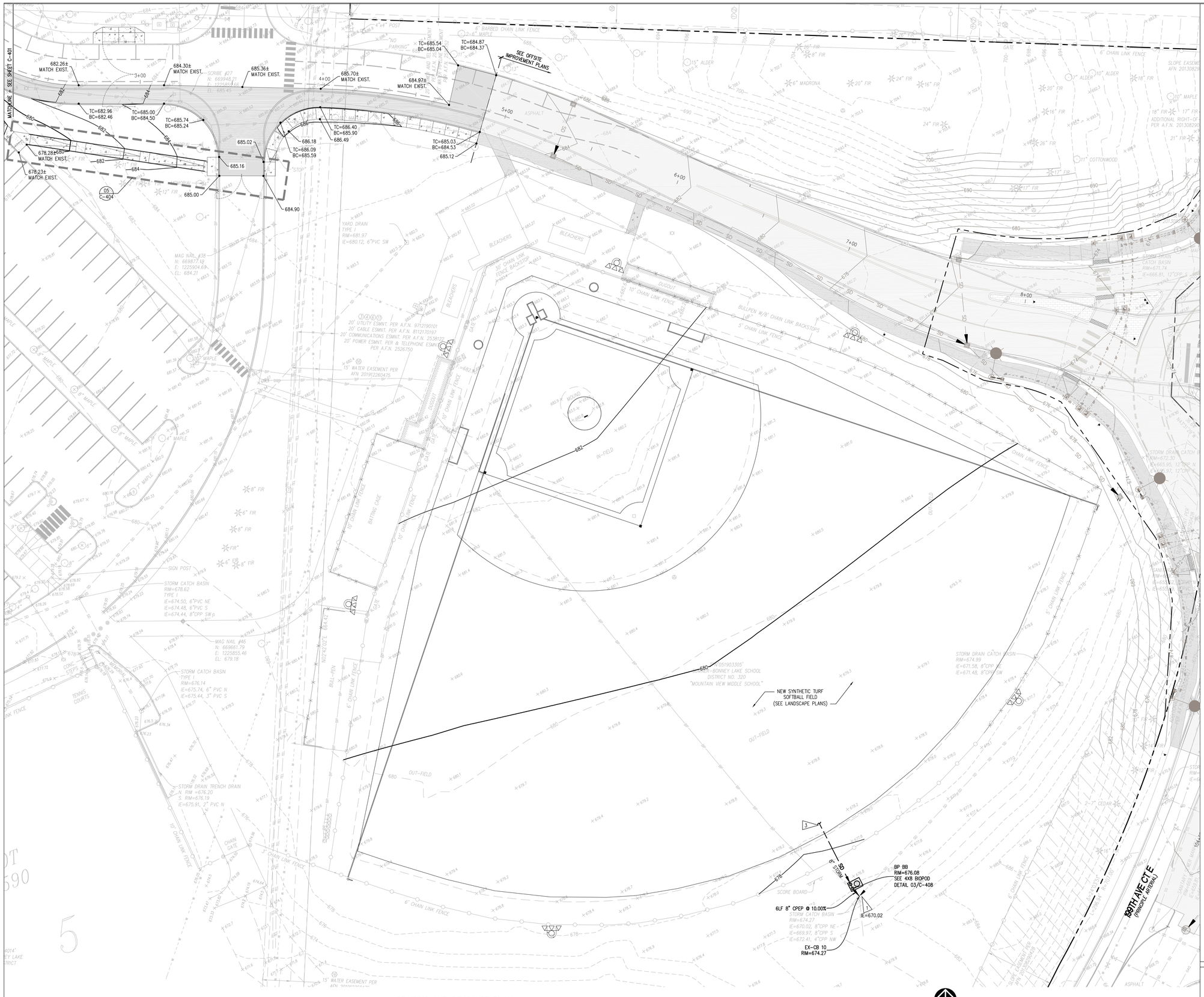
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SHEET
C-402

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

3/4/25



GRADING AND DRAINAGE PLAN

SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'

20 0 20 40

NORTH

LEGEND

PROPOSED FEATURES-

- SD — STORM DRAIN PIPE
- RD — ROOF DRAIN PIPE
- FD — FOOTING DRAIN
- GRADE BREAK
- FLOWLINE (FL)
- TYPE 1 CATCH BASIN, SEE DETAIL 02/C-407
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- TA — TOP OF ASPHALT
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3. ALL CATCH BASIN GRATES AND COVERS SHALL BE LOCKING BOLT DOWN GRATES AND COVERS (TYPE PER SCHEDULE). ADJUST OR SET THE FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES OR COVERS. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL LOCATIONS OF CATCH BASINS WITH RESPECT TO CURBING/CONCRETE PADS PRIOR TO CATCH BASIN PLACEMENT. STAKING OF PARTIAL CURBS/PADS AT TIME OF CATCH BASIN STAKING MAY BE NECESSARY.
4. SPOT ELEVATIONS ARE PROVIDED ON THE PLAN AT THE BOTTOM OF CURB, EDGE OF PAVEMENT, EDGE OF CONCRETE, OR BUILDING FACE UNLESS NOTED OTHERWISE.
5. TYPE 1 CATCH BASINS PER WSDOT STANDARD B-5.20-03, RECTANGULAR FRAME PER WSDOT STANDARD B-30.10-03, HERRINGBONE GRATE PER WSDOT STANDARD B-30.50-03, ADA GRATE PER WSDOT B-30.15-00 (ALT. 3/LOCKING), AND VANED GRATE PER WSDOT STANDARD B-30.30-03. GRATE/COVER REQUIREMENTS PER STRUCTURE SCHEDULE. SEE DETAILS 01, 02, 03, AND 04 ON SHEET C-407.
6. TYPE 2 CATCH BASINS PER WSDOT STANDARD B-10.20-03. GRATE/COVER REQUIREMENTS PER STRUCTURE SCHEDULE. SEE DETAILS 01, 03, 04, AND 05 ON SHEET C-407. PROVIDE STANDARD LADDER AT ALL TYPE 2 CB'S.
7. SANDED MANHOLE ADAPTERS SHALL BE USED AT ALL PIPE CONNECTIONS AT CATCH BASINS. GROUT INSIDE AND OUTSIDE OF STRUCTURE AT ADAPTER; TO BE INSPECTED BY ENGINEER PRIOR TO BACKFILLING AROUND CATCH BASINS.
8. STORM DRAIN (SD) PIPING SHALL BE CORRUGATED SMOOTH INTERIOR POLYETHYLENE PIPE (CPEP) PER WSDOT 9-05. INSTALL SD PIPING AT 0.50% MINIMUM SLOPE, TRENCH SECTION PER DETAIL 06/C-407.
9. PVC ROOF DRAIN (RD) PIPING AND STORM DRAIN (SD) PIPING (WHERE NOTED) SHALL BE 6" (MIN.) PVC SDR 35 GASKETED PIPE PER WSDOT 9-05.12(1). INSTALL AT 0.50% MINIMUM SLOPE. TRENCH SECTION PER DETAIL 06/C-407. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECTURAL AND DETAIL 12/C-407.
10. CONCRETE SIDEWALKS SHALL SLOPE TOWARDS THE ADJACENT ASPHALT AND AWAY FROM THE BUILDING AT 2.00% MAX.
11. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES AND DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS AND UTILITY CONNECTIONS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT SITTS & HILL ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL PROTECT OR IMMEDIATELY REPAIR ANY DAMAGED UTILITY 'DISCOVERED' ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
12. FOR ALL DISTURBED AREAS TO BE SURFACED WITH LANDSCAPING, THE CONTRACTOR SHALL AMEND SOILS IN ACCORDANCE WITH BMP T5.13 FROM THE 2024 ECOLOGY STORMWATER MANUAL. CONTRACTOR SHALL COORDINATE WITH LANDSCAPING PLANS FOR REQUIRED EXCAVATION TO SUBGRADE IN LANDSCAPE AREAS.
13. CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
14. FOOTING DRAIN (FD) LINES SHALL BE 6" PERFORATED PIPE UNLESS NOTED OTHERWISE. INSTALL FD PIPING PER DETAIL 12/C-407. TIGHTLINE FROM FD TO CB SHALL BE SOLID WALL PVC SDR-35.
15. CATCH BASIN STENCILING SHALL BE APPLIED AT ALL CATCH BASINS WITH A GRATE IN PAVED AREAS PER DETAIL 08/C-305.
16. PROVIDE CONCRETE COLLAR AT CATCH BASINS IN LAWN AREAS PER DETAIL 19/C-304.

KEY NOTES

1. CONNECT TO EXISTING STORM DRAIN STRUCTURE AT INVERT ELEVATION (IE) PER PLAN.
2. RECONNECT EXISTING STORM DRAIN PIPING TO PROPOSED STORM DRAIN STRUCTURE. SEE CATCH BASIN TABLE FOR INVERT ELEVATIONS.
3. CONNECT FIELD UNDERDRAIN TO STORM DRAIN PIPING. REFERENCE LANDSCAPE PLANS FOR FIELD UNDERDRAIN REQUIREMENTS.

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED

BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

NOTE:
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Field conditions may dictate changes to these plans as determined by the City Engineer.

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STATE OF WASHINGTON DANIEL A. FILIMONOV REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
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BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
GRADING AND DRAINAGE PLAN

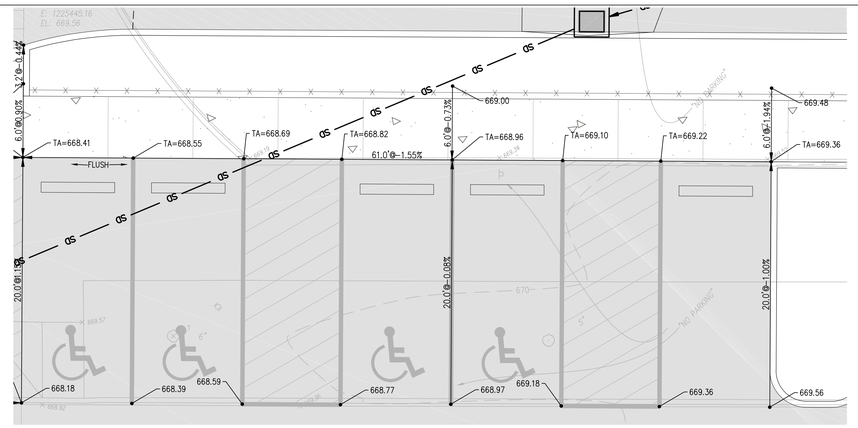
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SHEET
C-403

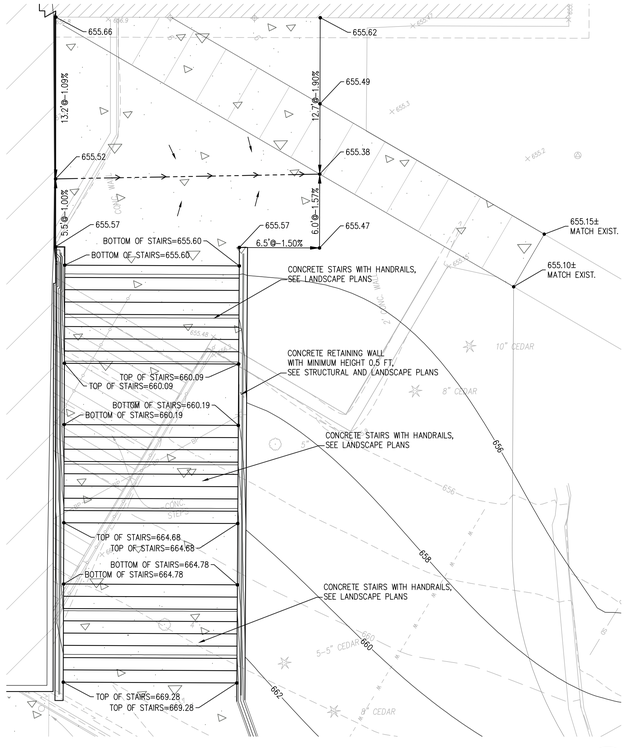
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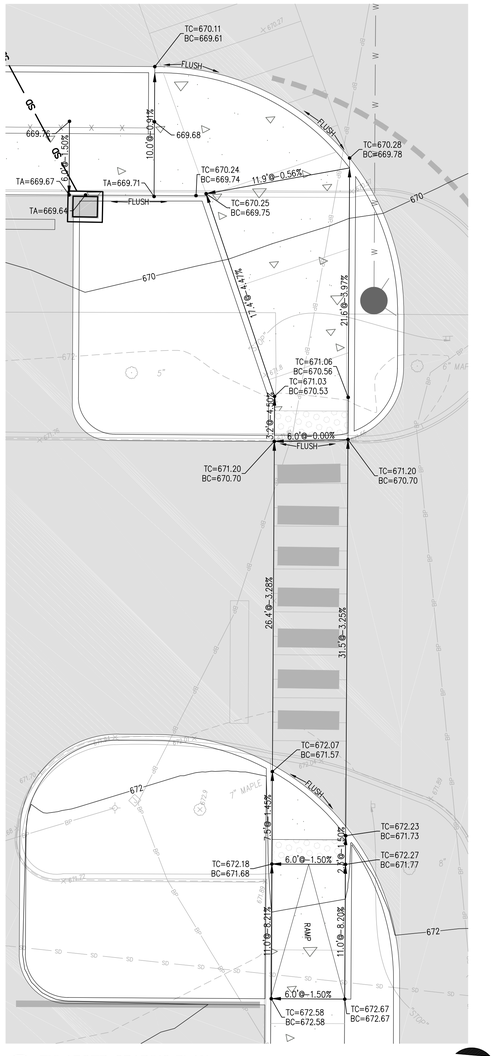
01 ENLARGED GRADING PLAN
SCALE: 1"=5'

NORTH



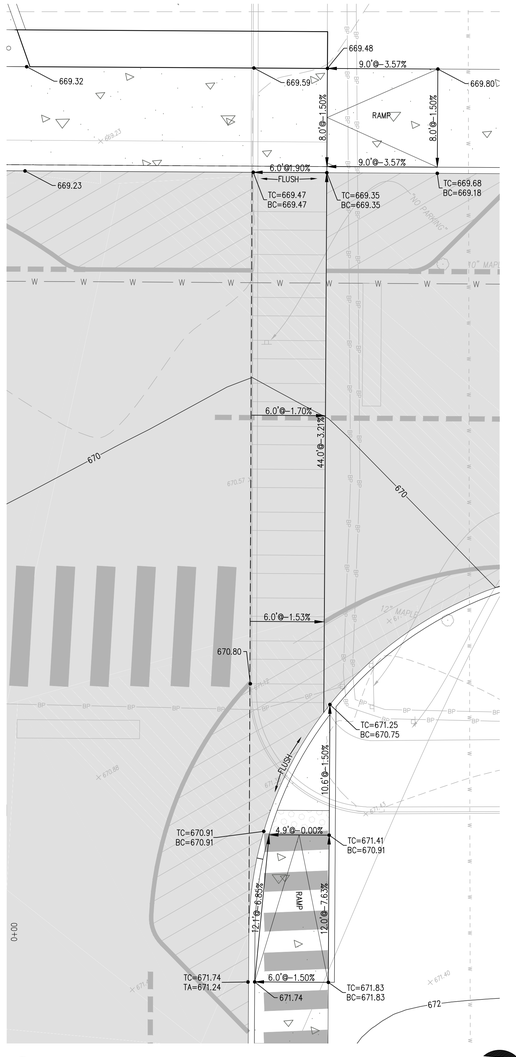
02 ENLARGED GRADING PLAN
SCALE: 1"=5'

NORTH



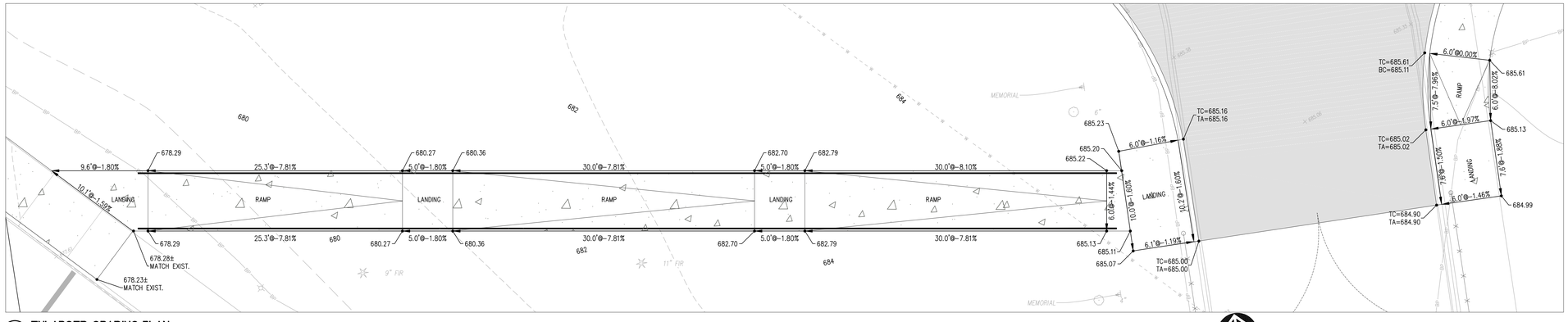
03 ENLARGED GRADING PLAN
SCALE: 1"=5'

NORTH



04 ENLARGED GRADING PLAN
SCALE: 1"=5'

NORTH



05 ENLARGED GRADING PLAN
SCALE: 1"=5'

NORTH

HORIZONTAL SCALE: 1"=5'

5 0 5 10

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

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CITY OF BONNEY LAKE
CITY ENGINEER, PE

DATE _____

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21846
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BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
ENLARGED GRADING PLANS

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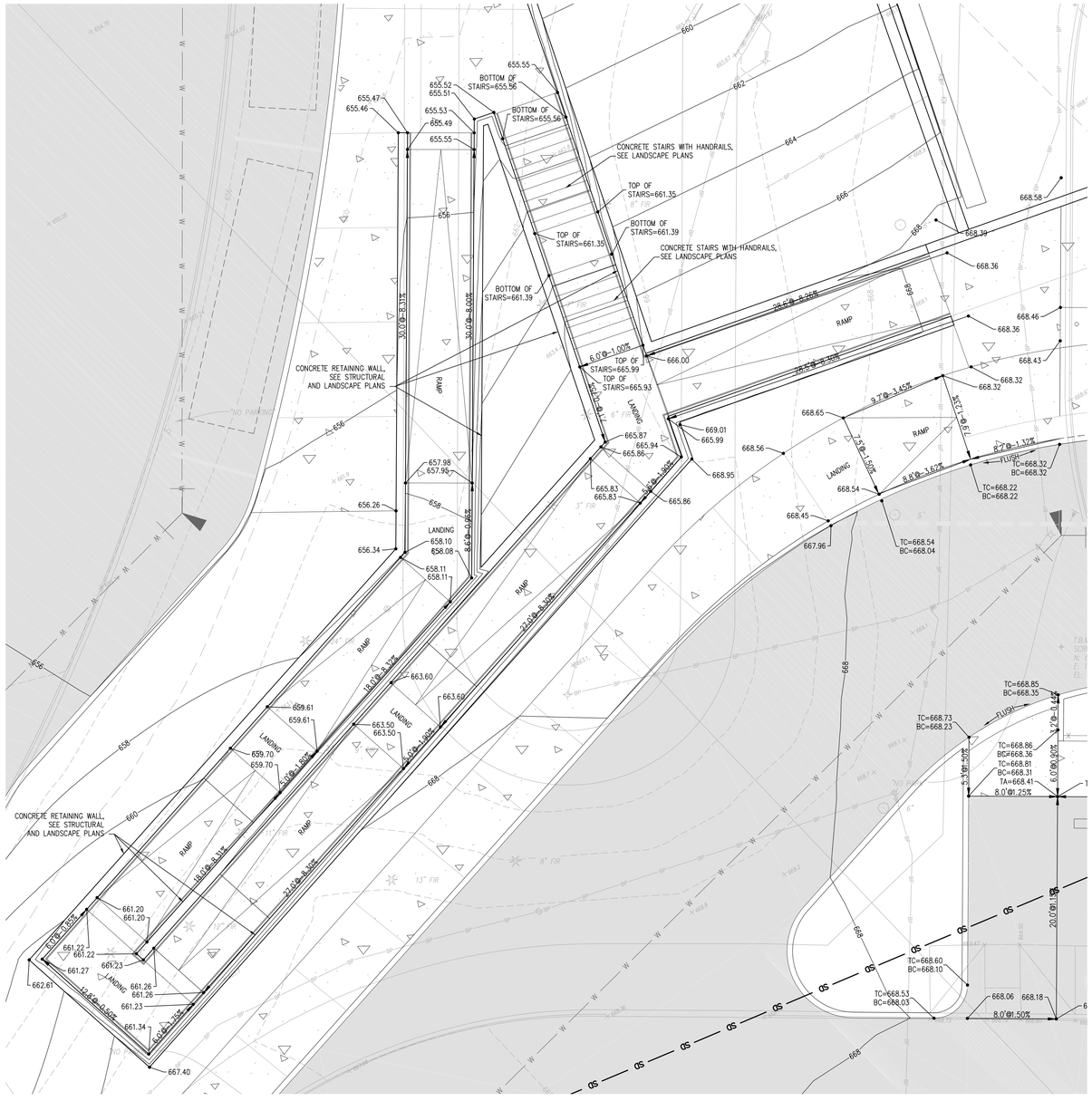
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SHEET
C-404

DESIGN DEVELOPMENT

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30x42



01 ENLARGED GRADING PLAN

SCALE: 1"=5'

NORTH

HORIZONTAL SCALE: 1"=5'

5 0 5 10

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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

APPROVED

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CITY OF BONNEY LAKE
CITY ENGINEER, PE

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BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
ENLARGED GRADING PLANS

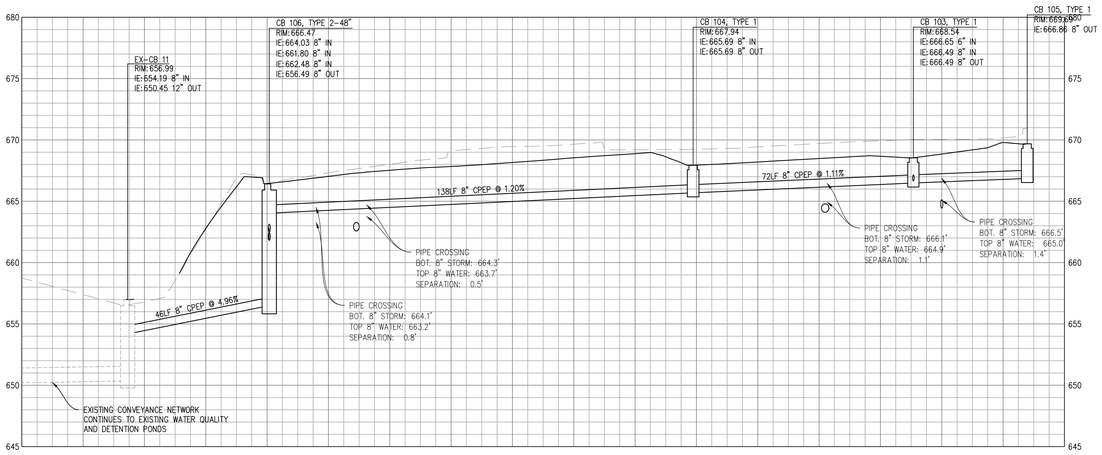
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SHEET
C-405

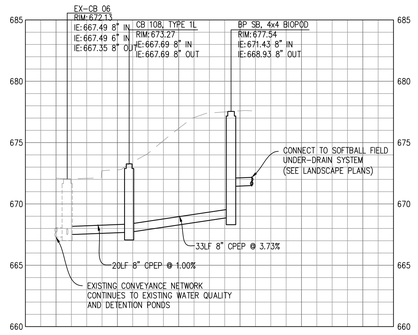
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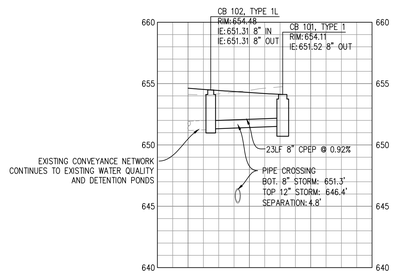
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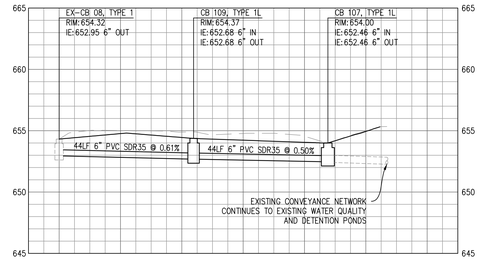
01 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



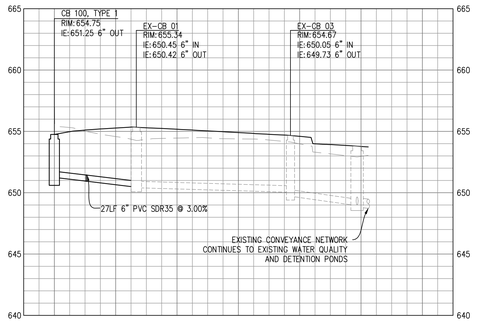
02 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



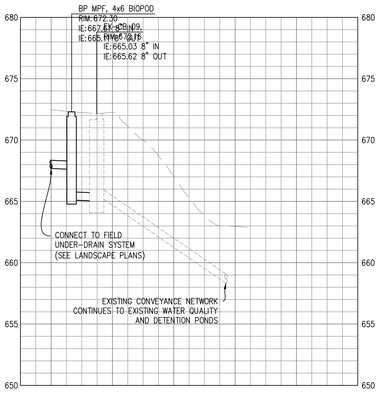
03 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



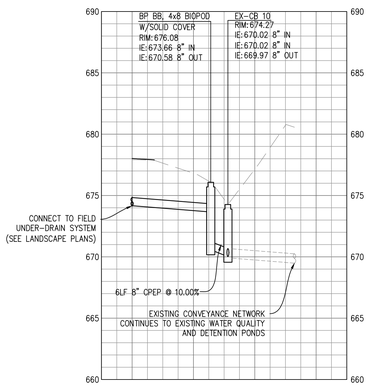
04 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



05 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



06 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'



07 STORM DRAIN PROFILE
SCALE: HORIZ: 1"=20' VERT: 1"=5'

HORIZONTAL SCALE: 1"=20'
20 0 20 40
VERTICAL SCALE: 1"=5'
5 0 5 10

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REVISIONS

DATE
3.2.2026
BCRA NO. 24143

DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
STORM DRAINAGE PROFILES

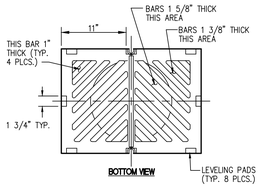
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SHEET
C-406

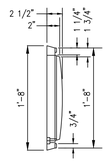
DESIGN DEVELOPMENT

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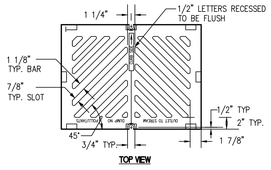
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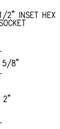
BOTTOM VIEW



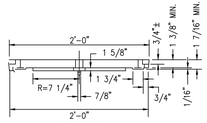
END VIEW



TOP VIEW



STAINLESS STEEL SECURING BOLT



FRONT VIEW

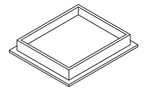
NOTES:

1. MATERIAL USED FOR GRATE SHALL BE DUCTILE IRON ONLY.
2. DUCTILE IRON ASTM A536 GR 80S5-06 H-20 RATED, APPROXIMATELY 104 LBS.
3. OLYMPIC FOUNDRY PART NO. SM 60 D/T IS PRE-APPROVED. ALL OTHER PRODUCTS REQUIRE WRITTEN APPROVAL PRIOR TO USE.

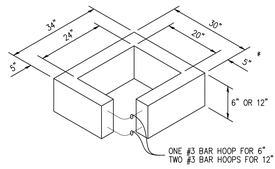
NOTE: SEE WSDOT STANDARD PLAN B-30.50-00 FOR TYPE 1 CATCH BASIN STRUCTURES. IF ANY INFORMATION SHOWN HEREON DIFFERS FROM THAT SHOWN ON THE WSDOT STANDARD PLAN, THE WSDOT STANDARD PLAN SHALL GOVERN.

01 BOLT-DOWN CATCH BASIN HERRINGBONE GRATE DETAIL

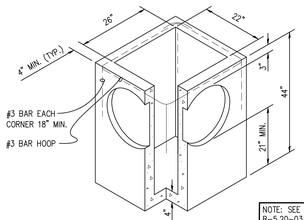
SCALE: N.T.S.



FRAME AND GRATE



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

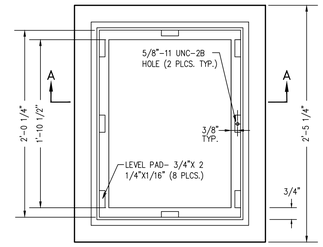
PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP ① (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

CORRUGATED POLYETHYLENE STORM SEWER PIPE

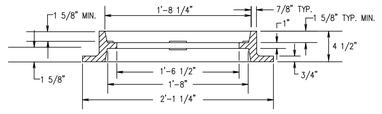
NOTE: SEE WSDOT STANDARD PLAN B-5.20-03 FOR TYPE 1 CATCH BASIN STRUCTURES. IF ANY INFORMATION SHOWN HEREON DIFFERS FROM THAT SHOWN ON THE WSDOT STANDARD PLAN, THE WSDOT STANDARD PLAN SHALL GOVERN.

02 TYPE 1 CATCH BASIN

SCALE: N.T.S.



TOP VIEW



SECTION A-A

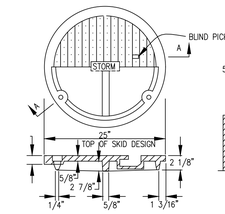
NOTES:

1. MATERIAL USED FOR THE FRAME SHALL BE DUCTILE IRON ONLY.
2. OLYMPIC FOUNDRY PART NO. SM 60 D/T IS THE PRE-APPROVED EQUAL.
3. ALL OTHER PRODUCTS REQUIRE WRITTEN APPROVAL PRIOR TO USE.
4. TOP OF FRAME SHALL BE ADJUSTED EVEN WITH ROADWAY SECTION.
5. DUCTILE IRON ASTM A 536 OR 8055-06 H-20 RATED, APPROX. 124 LBS.

NOTE: SEE WSDOT STANDARD PLAN B-30.10-00 FOR TYPE 1 CATCH BASIN STRUCTURES. IF ANY INFORMATION SHOWN HEREON DIFFERS FROM THAT SHOWN ON THE WSDOT STANDARD PLAN, THE WSDOT STANDARD PLAN SHALL GOVERN.

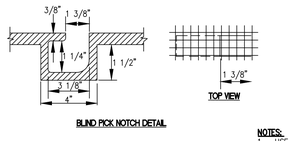
03 BOLT-DOWN CATCH BASIN FRAME DETAIL

SCALE: N.T.S.



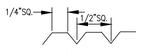
SECTION A-A

BOLT-DOWN DETAIL



BLIND PICK NOTCH DETAIL

TOP VIEW



COVER SKID DESIGN DETAIL

NOTES:

1. USE WITH THREE LOCKING BOLTS 3/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2" LONG. DRILL HOLES SPACED 120° AT 11 1/16" RADIUS
2. MATERIAL IS DUCTILE IRON ASTM A 536 GRADE 80-55-06

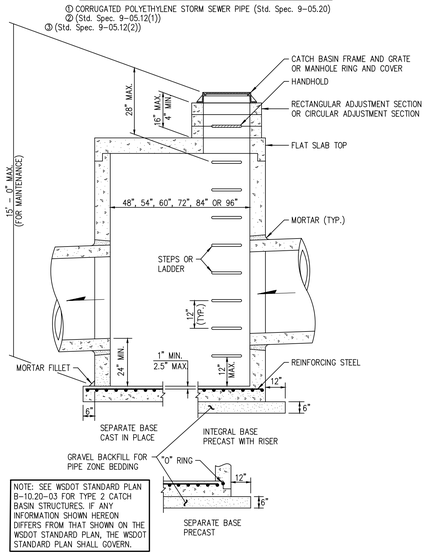
04 SOLID LOCKING COVER

SCALE: N.T.S.

CATCH BASIN DIMENSIONS						
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL in² /ft IN EACH DIRECTION	
					INTEGRAL	SEPARATE
48"	4"	6"	36"	8"	0.15	0.23
54"	4.5"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.25	0.25
72"	6"	8"	60"	12"	0.24	0.35
84"	8"	12"	72"	12"	0.29	0.39
96"	8"	12"	84"	12"	0.29	0.39

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	27"	30"
54"	30"	36"	30"	27"	36"
60"	36"	42"	36"	36"	42"
72"	42"	54"	42"	36"	48"
84"	54"	60"	54"	36"	48"
96"	60"	72"	60"	36"	48"

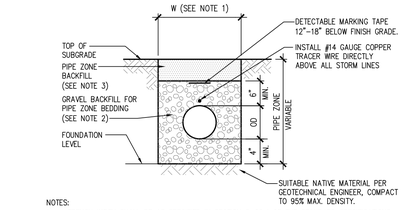
① CORRUGATED POLYETHYLENE STORM SEWER PIPE (Std. Spec. 9-05.20)
② (Std. Spec. 9-05.12(1))
③ (Std. Spec. 9-05.12(2))



NOTE: SEE WSDOT STANDARD PLAN B-10.20-03 FOR TYPE 2 CATCH BASIN STRUCTURES. IF ANY INFORMATION SHOWN HEREON DIFFERS FROM THAT SHOWN ON THE WSDOT STANDARD PLAN, THE WSDOT STANDARD PLAN SHALL GOVERN.

05 TYPE 2 CATCH BASIN

SCALE: N.T.S.

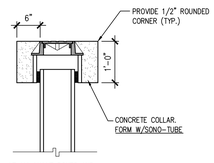


NOTES:

1) TRENCH WIDTH SHALL BE AS SPECIFIED IN SECTION 2-09.4 OF THE STANDARD SPECIFICATIONS.
2) GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.12 (3). FOR DUCTILE IRON AND THERMOPLASTIC/CPEP PIPE AND PEA GRAVEL FOR NON-PERFORATED TIGHTLINED FOOTING DRAIN OUTLET PIPING AND ROOF DRAINS.
3) PIPE ZONE BACKFILL SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.14(1).

06 PIPE ZONE BEDDING AND BACKFILL

SCALE: N.T.S.

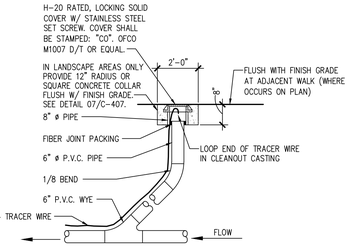


AT ALL VALVE BOXES AND CLEANOUTS NOT IN CONCRETE PAVEMENT AREAS.

NOTE:
IN CONC. PAVED AREAS SET COVER FLUSH W/FINISH PAVING GRADE.

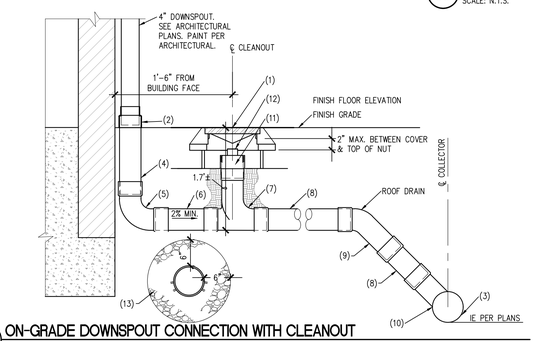
07 CONCRETE COLLAR DETAIL

SCALE: N.T.S.



08 STORM DRAIN CLEAN-OUT DETAIL

SCALE: N.T.S.



12 ON-GRADE DOWNSPOUT CONNECTION WITH CLEANOUT

SCALE: N.T.S.

NOTES:

1. CLEANOUT, SEE DETAILS 01 AND 02 ON THIS SHEET.
2. 6"x4" OR 6"x6" SDR-35 PVC SOLVENT WELD ADAPTOR. SEE ARCH. FOR DS SIZE.
3. 6" OR 8" STORM DRAIN COLLECTOR. SEE PLANS FOR SIZE REQUIREMENTS
4. 6"ø SDR 35 PIPE SPOOL. CUT IN FIELD TO LENGTH. DEFLECT AT 90° ELL TO BE PLUMB.
5. 6"ø GxG LONG SWEEP 90° ELL
6. 6"ø SDR 35 PIPE SPOOL
7. 6"ø GxGxG TEE WYE
   REMOVE GASKET IN "T" BRANCH
8. 6"ø SDR 35 GASKETED PIPE SPOOL
9. 6"ø 45° ELL
10. 6"x6" OR 6"x8" GxGxG WYE
11. 6"ø FIPT X SEWER SPIGOT
    SOLVENT WELD SPIGOT IN T-WYE
12. 6"ø PVC MIPT PLUG WITH RAISED 2" SQUARE NUT
13. FOOTING DRAIN: 6"ø PERFORATED ASTM D3034 SDR35 PVC FOOTING DRAIN PLACED IN 6" (ALL SIDES) CLEAN WASHED DRAIN ROCK PER WSDOT 9-03.12(4). WRAP ROCK IN MODERATE SURVIVABILITY NON-WOVEN SEPARATION GEOTEXTILE PER WSDOT 9-33.2(1) TABLE 3

bcra
T 253.627.4367 F 253.627.4385 WWW.BCRADESIGN.COM
1906 BROADWAY, SUITE 201 TACOMA, WA 98402

SEAL

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE
3.2.2026

BCRA NO. 24143

DRAWN BY DF/KNL/MLM
REVIEWED BY DF/MLM

SHEET TITLE
GRADING AND DRAINAGE DETAILS

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CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4615 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____

NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

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SHEET
C-407

DESIGN DEVELOPMENT

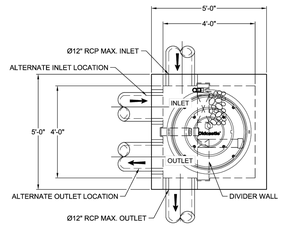
IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42

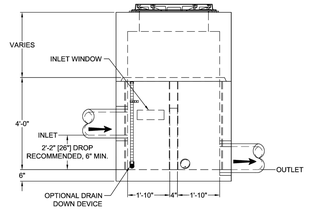
SITE SPECIFIC DATA				
Structure ID				ID
Treatment Flow Rate (cfs)				-
Peak Flow Rate (cfs)				-
Rim Elevation				-
Top of Vault Elevation				-
Pipe Data	**Pipe Location**	**Pipe Size**	**Pipe Type**	**Invert Elevation**
Inlet	-	-	-	-
Outlet	-	-	-	-
Notes:				

PERFORMANCE SPECIFICATIONS	
Treatment Flow Capacities:*	
NJDEP 80% Removal, 75 micron	0.032 cfs
WA Ecology GULD - Basic, Enhanced & Phosphorus	0.029 cfs
Bypass Capacity	5.0 cfs

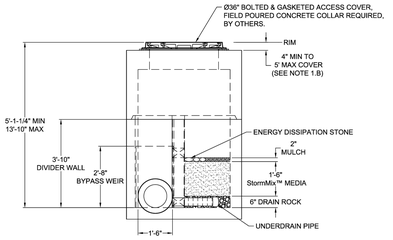
*Contact Oldcastle for alternative treatment flow capacities.



PLAN VIEW



LEFT END VIEW



ELEVATION VIEW

NOTES:

1. DESIGN LOADINGS:
   - A. AASHTO HS-20-44 (WITH IMPACT)
   - B. DESIGN SOIL COVER: 5'-0" MAXIMUM
   - C. ASSUMED WATER TABLE: BELOW BASE OF PRECAST (ENGINEER-OF-RECORD TO CONFIRM SITE WATER TABLE ELEVATION)
   - D. LATERAL EARTH PRESSURE: 45 PCF
   - E. LATERAL LIVE LOAD SURCHARGE: 80 PSF (APPLIED TO 8'-0" BELOW GRADE)
   - F. NO LATERAL SURCHARGE FROM ADJACENT BUILDINGS, WALLS, PIERS, OR FOUNDATIONS.
2. CONCRETE 28-DAY MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI MINIMUM.
3. REINFORCING: REBAR, ASTM A615/A706, GRADE 60
4. CEMENT: ASTM C150
5. REQUIRED ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF
6. REFERENCE STANDARD:
   - A. ASTM C890
   - B. ASTM C913
   - C. ACI 318-14
7. THIS STRUCTURE IS DESIGNED TO THE PARAMETERS NOTED HEREIN. ENGINEER-OF-RECORD SHALL VERIFY FY THAT NOTED PARAMETERS MEET OR EXCEED PROJECT REQUIREMENTS. IF DESIGN PARAMETERS ARE INCORRECT, REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE INFRASTRUCTURE UPON REVIEW.
8. INLET AND OUTLET HOLES WILL BE FACTORY COREDICAST PER PLANS AND CUSTOMER REQUIREMENTS. INLET AND OUTLET LOCATIONS CAN BE MIRRORED.
9. CONTRACTOR RESPONSIBLE TO VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
10. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
11. SECTION HEIGHTS, SLAB/WALL THICKNESSES, AND KEYWAYS ARE SUBJECT TO CHANGE. AS REQUIRED FOR SITE REQUIREMENTS AND/OR DUE TO PRODUCT AVAILABILITY AND PRODUCTION FACILITY CONSTRAINTS.
12. MAXIMUM PICK WEIGHTS*:
    - A. TOP: XX,XXX LBS
    - B. BASE: XX,XXX LBS*
    - (* COMBINED WEIGHT OF BASE INCLUDES BYPASS WEIR, DIVIDER WALL, ROCK & MEDIA)
13. INTERNALS SHALL CONSIST OF UNDERDRAIN PIPE, ROCK, STORMMIX™ MEDIA, MULCH, DIVIDER WALL, BYPASS WEIR AND OPTIONAL DRAIN DOWN.

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BioPod™ Biofilter System (STANDARD)
Underground Vault with Internal Bypass

CUSTOMER: -
PROJECT NAME: -

SHEET NAME	REVISION	SHEET
Specifier Drawing BPU-44SB	- REV DATE	1 OF 1

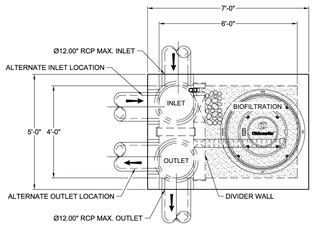
Boundaries' Bioffiltration

01 4X4 BIOPOD (BP-SB) DETAIL
SCALE: NTS

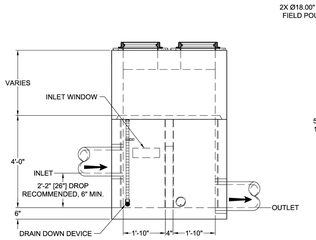
SITE SPECIFIC DATA				
Structure ID				ID
Model Size				4x6
Orientation (Left or Right)				-
Treatment Flow Rate (cfs)				-
Peak Flow Rate (cfs)				4.82 cfs
Rim Elevation				X.XX'
Pipe Data	**Pipe Location**	**Pipe Size**	**Pipe Type**	**Invert Elevation**
Inlet	XXX	XX"	XXX	X.XX'
Outlet	XXX	XX"	XXX	X.XX'
Notes: -				

PERFORMANCE SPECIFICATIONS	
Treatment Flow Capacities:*	
NJDEP 80% Removal, 75 micron	0.064 cfs
WA Ecology GULD - Basic, Enhanced & Phosphorus	0.057 cfs

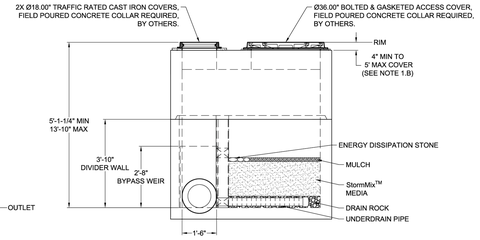
*Contact Oldcastle for alternative treatment flow capacities.



PLAN VIEW



LEFT END VIEW



ELEVATION VIEW

NOTES:

1. DESIGN LOADINGS:
   - A. AASHTO HS-20-44 W/ IMPACT.
   - B. STANDARD DESIGN FILL: 5' MAXIMUM
   - C. ASSUMED WATER TABLE: 4' ABOVE BASE SLAB ELEVATION.
   - D. LATERAL EARTH PRESSURE (EFP): = 45 PCF.
   - E. LATERAL LIVE LOAD SURCHARGE = 80 PSF (APPLIED TO 8' BELOW GRADE).
   - F. NO LATERAL SURCHARGE FROM ADJACENT BUILDINGS, WALLS, PIERS, OR FOUNDATIONS.
2. CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE 5,000 PSI MINIMUM.
3. STEEL REINFORCEMENT: REBAR, ASTM A615 OR A706, GRADE 60.
4. CEMENT: ASTM C150 SPECIFICATION.
5. REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
6. REFERENCE STANDARD:
   - A. ASTM C890-19
   - B. ASTM C913
   - C. ACI 318-14.
7. INTERNALS SHALL CONSIST OF UNDERDRAIN PIPE, ROCK, STORMMIX™ MEDIA, MULCH, DIVIDER WALL, BYPASS WEIR AND DRAIN DOWN. THIS CONFIGURATION PROVIDES OPTIMIZED POLLUTANT REMOVAL.
8. INLET AND OUTLET HOLES WILL BE FACTORY COREDICAST PER PLANS/CUSTOMER REQUIREMENTS. INLET AND OUTLET LOCATIONS CAN BE MIRRORED.
9. MAXIMUM PICK WEIGHT = 14,400 LBS. (COMBINED WEIGHT OF BASE, BYPASS WEIR, DIVIDER WALL, ROCK & MEDIA). SECTION HEIGHTS, SLABS/WALL THICKNESSES AND KEYWAYS ARE SUBJECT TO CHANGE.
10. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT OLDCASTLE INFRASTRUCTURE.

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BioPod™ Biofilter System (STANDARD)
Underground Vault with Internal Bypass

CUSTOMER: -
PROJECT NAME: -

SHEET NAME	REVISION	SHEET
Specifier Drawing BPU-46SB	- REV DATE	1 OF 1

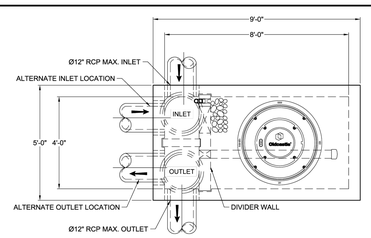
Boundaries' Bioffiltration

02 4X6 BIOPOD (BP-MPF) DETAIL
SCALE: NTS

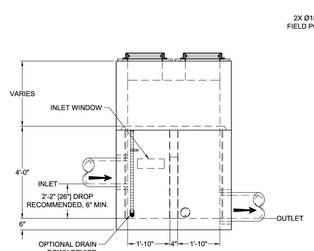
SITE SPECIFIC DATA				
Structure ID				ID
Treatment Flow Rate (cfs)				-
Peak Flow Rate (cfs)				-
Rim Elevation				-
Top of Vault Elevation				-
Pipe Data	**Pipe Location**	**Pipe Size**	**Pipe Type**	**Invert Elevation**
Inlet	-	-	-	-
Outlet	-	-	-	-
Notes:				

PERFORMANCE SPECIFICATIONS	
Treatment Flow Capacities:*	
NJDEP 80% Removal, 75 micron	0.096 cfs
WA Ecology GULD - Basic, Enhanced & Phosphorus	0.085 cfs
Bypass Capacity	5.0 cfs

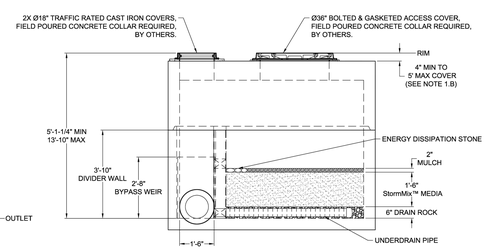
*Contact Oldcastle for alternative treatment flow capacities.



PLAN VIEW



LEFT END VIEW



ELEVATION VIEW

NOTES:

1. DESIGN LOADINGS:
   - A. AASHTO HS-20-44 W/ IMPACT.
   - B. DESIGN SOIL COVER: 5'-0" MAXIMUM
   - C. ASSUMED WATER TABLE: BELOW BASE OF PRECAST (ENGINEER-OF-RECORD TO CONFIRM SITE WATER TABLE ELEVATION)
   - D. LATERAL EARTH PRESSURE: 45 PCF (DRAINED)
   - E. LATERAL LIVE LOAD SURCHARGE: 80 PSF (APPLIED TO 8'-0" BELOW GRADE)
   - F. NO LATERAL SURCHARGE FROM ADJACENT BUILDINGS, WALLS, PIERS, OR FOUNDATIONS.
2. CONCRETE 28-DAY MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI MINIMUM.
3. REINFORCING: REBAR, ASTM A615/A706, GRADE 60
4. CEMENT: ASTM C150
5. REQUIRED ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF
6. REFERENCE STANDARD:
   - A. ASTM C890
   - B. ASTM C913
   - C. ACI 318-14
7. THIS STRUCTURE IS DESIGNED TO THE PARAMETERS NOTED HEREIN. ENGINEER-OF-RECORD SHALL VERIFY FY THAT NOTED PARAMETERS MEET OR EXCEED PROJECT REQUIREMENTS. IF DESIGN PARAMETERS ARE INCORRECT, REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE INFRASTRUCTURE UPON REVIEW.
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9. CONTRACTOR RESPONSIBLE TO VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
10. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
11. SECTION HEIGHTS, SLAB/WALL THICKNESSES, AND KEYWAYS ARE SUBJECT TO CHANGE. AS REQUIRED FOR SITE REQUIREMENTS AND/OR DUE TO PRODUCT AVAILABILITY AND PRODUCTION FACILITY CONSTRAINTS.
12. MAXIMUM PICK WEIGHTS*:
    - A. TOP: XX,XXX LBS
    - B. BASE: XX,XXX LBS*
    - (* COMBINED WEIGHT OF BASE INCLUDES BYPASS WEIR, DIVIDER WALL, ROCK & MEDIA)
13. INTERNALS SHALL CONSIST OF UNDERDRAIN PIPE, ROCK, STORMMIX™ MEDIA, MULCH, DIVIDER WALL, BYPASS WEIR AND OPTIONAL DRAIN DOWN.

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BioPod™ Biofilter System (STANDARD)
Underground Vault with Internal Bypass

CUSTOMER: -
PROJECT NAME: -

SHEET NAME	REVISION	SHEET
Specifier Drawing BPU-48B	- REV DATE	1 OF 1

Boundaries' Bioffiltration

02 4X8 BIOPOD (BP-BB) DETAIL
SCALE: NTS

bcra
T 253.627.4367 F 253.627.4356 WWW.BCRADESIGN.COM
1106 BROADWAY PLACE SUITE 201 TACOMA, WA 98402

SEAL

STATE OF WASHINGTON
DANIEL FILMALTER
21948
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
GRADING AND DRAINAGE DETAILS

811 Call 811 two business days before you dig

sitts&hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4615 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____
NOTE:
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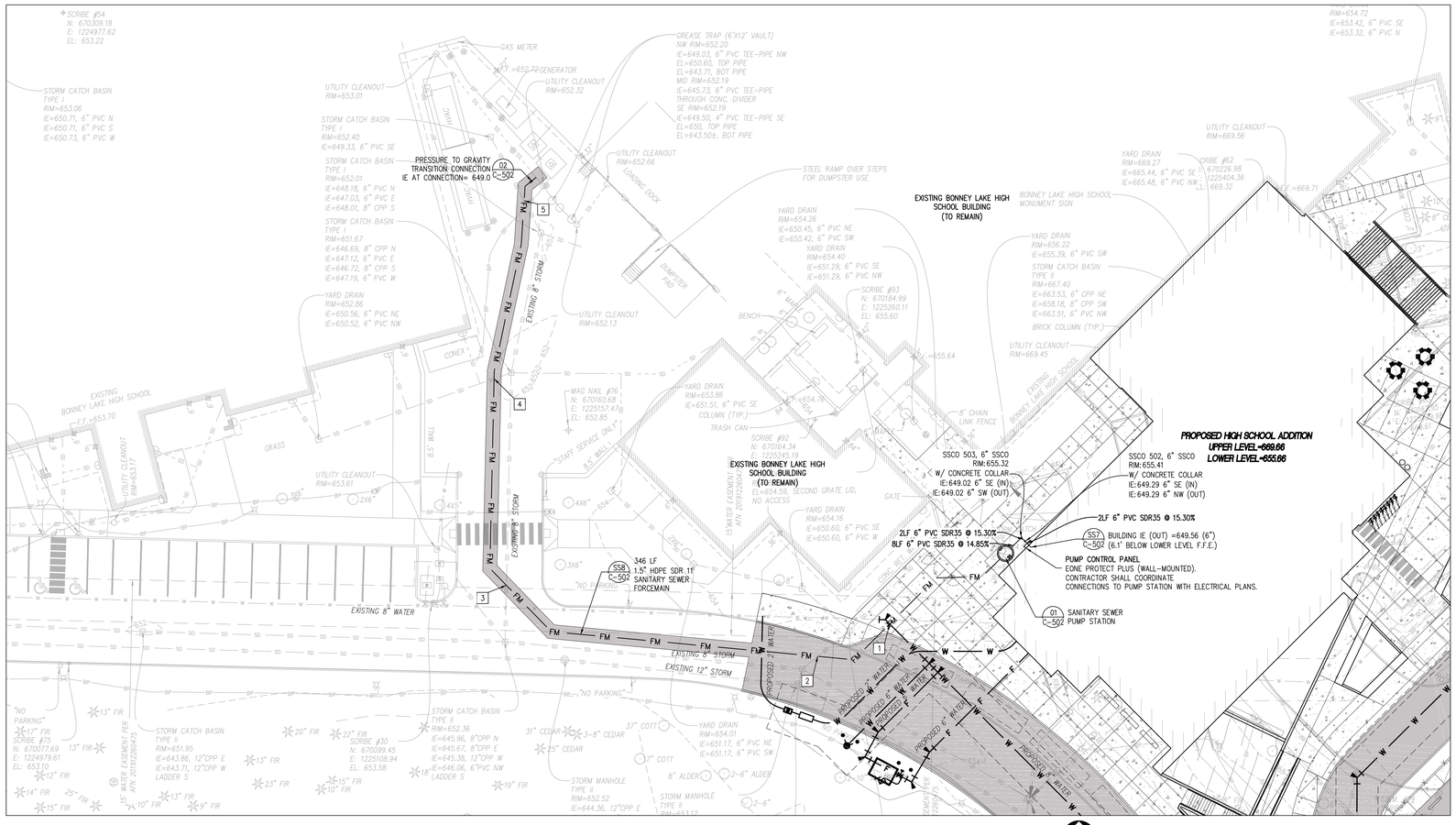
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SHEET
C-408

DESIGN DEVELOPMENT

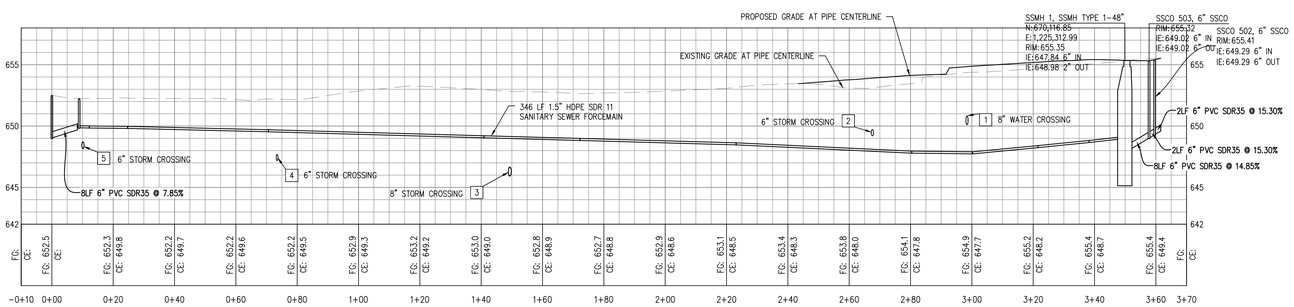
IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

3/4x2



SEWER UTILITY PLAN

SCALE: 1"=20'



SEWER UTILITY PROFILE

SCALE: HORZ: 1"=20' VERT: 1"=5'

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN)

MEASURED NORTH 02°41'36" EAST BETWEEN TWO FOUND MONUMENTS ALONG 119TH AVE. CT. E.

VERTICAL DATUM

NAVD 88
BASED ON GPS OBSERVATION UTILIZING THE WSRN WITH
NGS GEOID18 LOADED

TEMPORARY BENCHMARK #1
ELEVATION = 653.63'
DESCRIPTION: SCRIBE #53, IN CONCRETE, 17.6± N.W. OF GRASS COURTYARD

TEMPORARY BENCHMARK #2
ELEVATION = 654.04'
DESCRIPTION: SCRIBE #52, IN CONCRETE, 11.5'± WEST OF THE NW CORNER OF A UTILITY RAMP

LEGEND

EXISTING

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE
- WATER METER
- W — DOMESTIC WATER SERVICE
- BP — BURIED POWER
- TEL — TELEPHONE
- SS — SANITARY SEWER
- SD — STORM DRAIN PIPE

PROPOSED

- SS — SEWER EXTENSION/SEWER SERVICE
- SANITARY SEWER PUMP STATION
- SANITARY SEWER CLEANOUT
- FD — FOOTING DRAIN
- SD — STORM DRAIN
- RD — ROOF DRAIN
- W — WATER MAIN

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN A SET OF PLANS AND RECORD AS CONSTRUCTED INFORMATION, INCLUDING LOCATION OF ALL EXISTING UTILITIES CROSSING NEW SEWER. PLANS SHALL BE PROVIDED TO ENGINEER UPON COMPLETION OF WORK.
2. CONTRACTOR SHALL EMPLOY A WASHINGTON STATE LICENSED LAND SURVEYOR TO PERFORM THE FOLLOWING WORK: CONSTRUCTION STAKING, AS-BUILT SURVEY OF ALL NEW RIM, INVERT ELEVATIONS, CENTERS OF MANHOLE SPACING AND PROVIDE THAT INFORMATION TO ENGINEER UPON COMPLETION OF WORK.
3. SEE C-1XX SERIES FOR PROJECT NOTE REQUIREMENTS.
4. CONCRETE ENCASE SEWER MAIN IF SEPARATION FROM WATER IS LESS THAN 1.5' BUT NOT LESS THAN 0.75' PER PIERCE COUNTY STANDARD DETAIL 3002 ON SHEET C-607.

CITY STANDARD SEWER NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.
2. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF BONNEY LAKE DEVELOPMENT POLICIES AND PUBLIC WORKS DESIGN STANDARDS, AND THE AMENDMENTS THERETO.
4. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY.
5. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
6. NOTIFY THE CITY OF BONNEY LAKE 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
7. FOR AID IN UTILITY LOCATION, CALL 811 OR 1-800-424-555, 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. PIPE LENGTH, MANHOLE DEPTHS, ETC., (AS SHOWN) ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
9. PROVIDE THE CITY'S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
10. CONNECTION TO AN EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS.
11. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
12. IN THE EVENT THAT AN EXISTING UTILITY IS DAMAGED DURING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY AND THE UTILITY COMPANY (IF APPLICABLE) IMMEDIATELY.
13. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH CITY OF BONNEY LAKE STANDARDS AND SPECIFICATIONS.
14. PRIOR TO ACCEPTANCE, THE DEVELOPER/CONTRACTOR SHALL VERIFY THAT THE LINE AND GRADE OF THE MAIN MEETS THE CITY OF BONNEY LAKE STANDARDS. IMMEDIATELY PRIOR TO STARTING THE VIDEO INSPECTION, THE DEVELOPER/CONTRACTOR SHALL FLUSH THE MAINS AND INSERT A VISIBLE DYE (COLOR AS APPROVED BY THE CITY) INTO THE MAINS TO AID IN IDENTIFYING THE DEPTHS OF ANY PONDS ENCOUNTERED DURING THE INSPECTION. PONDED DEPTHS THAT EXCEED 1/2 INCH WILL REQUIRE THE MAIN TO BE REPAIRED UNLESS OTHERWISE APPROVED BY THE CITY
15. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL NOT BE ADJUSTED UNTIL THE FINAL LIFT OF PAVEMENT IS IN PLACE.
16. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THAT THE EXISTING FACILITIES REMAIN FULLY OPERATIONAL DURING ALL STAGES OF CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING HOMEOWNERS OF THE INTENDED CONSTRUCTION SCHEDULE.
18. THE CONTRACTOR SHALL COMPLETELY RESTORE THE SITE TO EXISTING OR SUPERIOR CONDITION PRIOR TO MOVING TO ANOTHER PROJECT SITE.

KEY NOTES

1 COORDINATE SIDE SEWER LOCATION WITH PLUMBING PLANS. NOTIFY ENGINEER IN CASE OF DISCREPANCY IN LOCATION OR DEPTH.

UTILITY CROSSING NOTES

1. 8" WATER IE: 650.1'
   2" SEWER CE: 647.9'
   SEPARATION: 2.2'
2. 2" STORM IE: 649.2'
   8" SEWER CE: 648.1'
   SEPARATION: 1.1'
3. 2" SEWER IE: 649.0'
   8" STORM CE: 646.6'
   SEPARATION: 2.4'
4. 2" SEWER IE: 649.5'
   6" STORM CE: 647.6'
   SEPARATION: 1.9'
5. 2" SEWER IE: 649.8'
   6" STORM CE: 648.7'
   SEPARATION: 1.1'

811 Call 811 two business days before you dig

APPROVED
BY _____
CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____
NOTE:
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PHONE: (253) 474-9449 | www.sittshill.com

Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

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SEAL
STATE OF WASHINGTON MATTHEW L. MCCLURE REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
SEWER UTILITY PLAN AND PROFILE

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SHEET
C-501

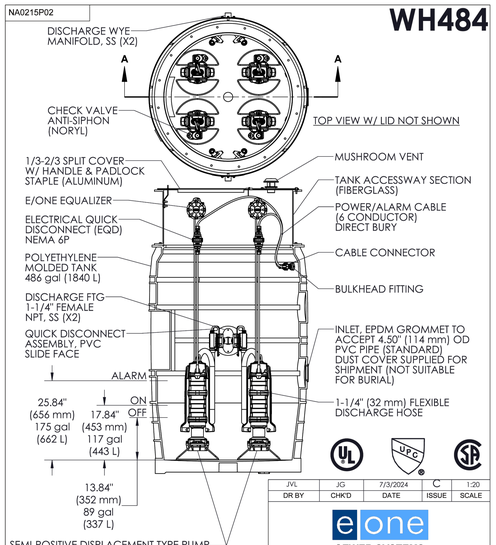
DESIGN DEVELOPMENT

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30X42

NA0215P02

WH484



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

JVL	JG	7/3/2024	C	1:20
DR BY	CHK'D	DATE	ISSUE	SCALE

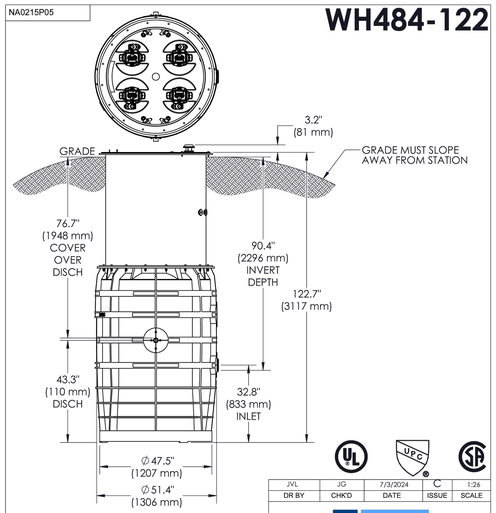
e/one SEWER SYSTEMS

MODEL WH484
DETAIL SHEET, QUAD

NA0215P02

NA0215P05

WH484-122



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

DISCHARGE: 1-1/4" NPT, SS (X2)

INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)

JVL	JG	7/3/2024	C	1:26
DR BY	CHK'D	DATE	ISSUE	SCALE

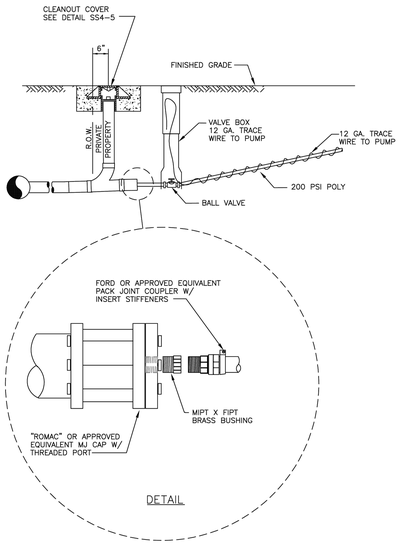
e/one SEWER SYSTEMS

MODEL WH484-122

NA0215P05

01 SANITARY SEWER PUMP STATION

SCALE: N.T.S.



02 GRINDER SERVICE TO GRAVITY MAIN SEWER CONNECTION (SS4-9.2)

SCALE: N.T.S.

NOTES:

1. TRENCH SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH WSDOT 7-08.3(3) OR AS APPROVED IN WRITING BY THE CITY ENGINEER.
2. PIPE ZONE BEDDING SHALL BE GRAVEL BACKFILL FOR PIPE ZONE BEDDING IN ACCORDANCE WITH WSDOT 9-03.12(3) OR AS APPROVED IN WRITING BY THE CITY ENGINEER.
3. FOR EXISTING ROADS, BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE 1/2" CRUSHED ROCK. FOR NEW ROAD CONSTRUCTION, BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE GRAVEL BORROW OR SELECT BORROW IN ACCORDANCE WITH WSDOT 9-03.14 OR 1/2" CRUSHED ROCK OR AS APPROVED IN WRITING BY THE CITY ENGINEER.

Approved: March 16, 2018
City Engineer Date

City of BONNEY Lake

Dwg No: SS7

SANITARY SEWER STANDARD DETAIL

SANITARY SEWER TRENCH SECTION

NOTE:

TRACER WIRE (10 GA) SHALL BE TERMINATED IN A MANHOLE, VAULT, OR OTHER APPROVED LOCATION ON A TERMINAL BLOCK WITHIN 18" OF THE LID OR RIM OF THE STRUCTURE.

Approved: March 16, 2018
City Engineer Date

City of BONNEY Lake

Dwg No: SS8

SANITARY SEWER STANDARD DETAIL

PRESSURE LINE AND FORCE MAIN TRENCH SECTION

Call 811 two business days before you dig

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4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE

NOTE:
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SEAL

STATE OF WASHINGTON DAVID FILIPOVICH 24143 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10820 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
SEWER UTILITY DETAILS

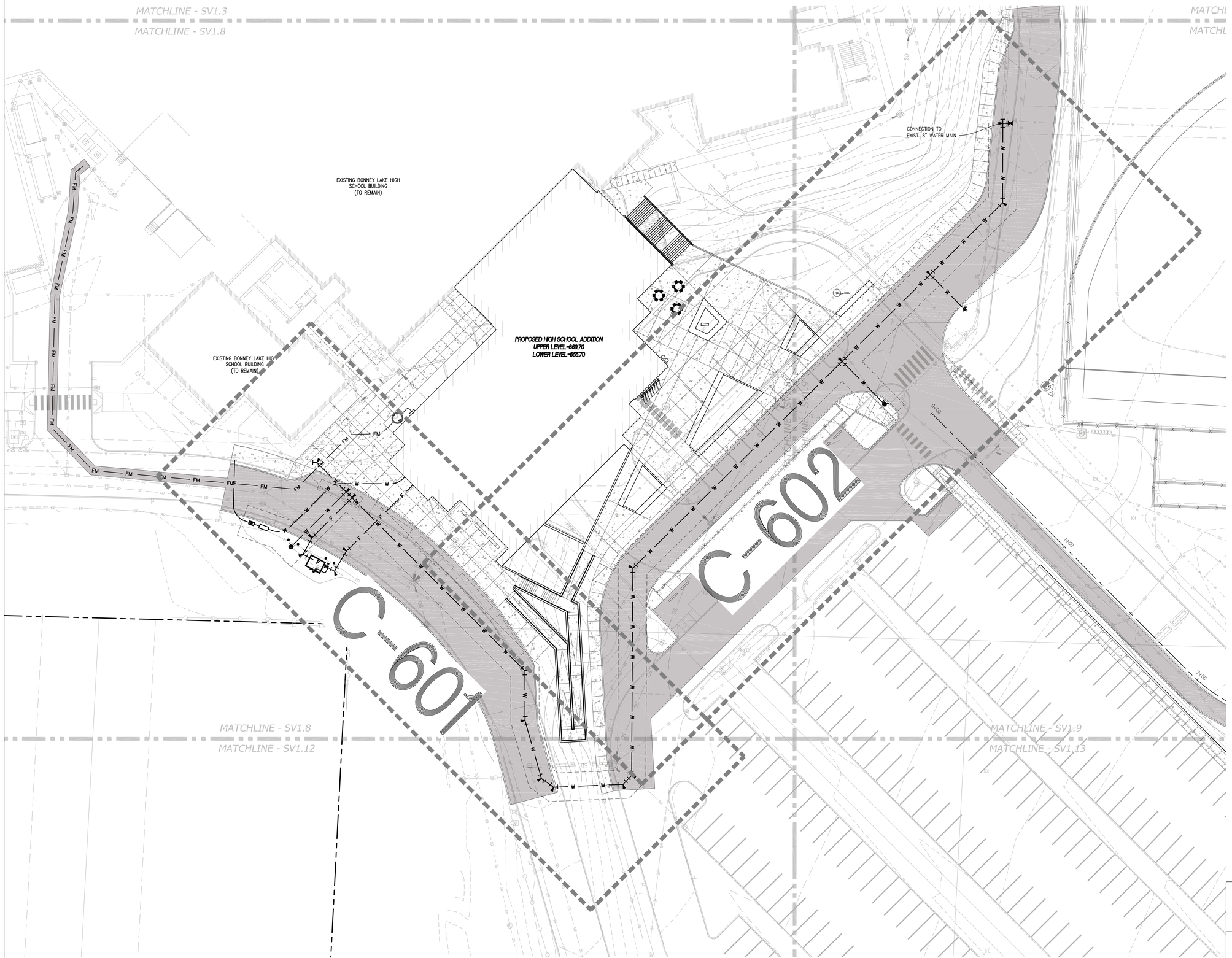
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SHEET
C-502

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42



OVERALL WATER UTILITY PLAN
SCALE: 1"=20'

HORIZONTAL SCALE: 1"=20'
20 0 20 40

NORTH

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

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SEAL

DAVID FILLMORE
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
UTILITY PLAN

811 Call 811 two business days before you dig

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4615 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sittshill.com

Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
BY _____
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE _____

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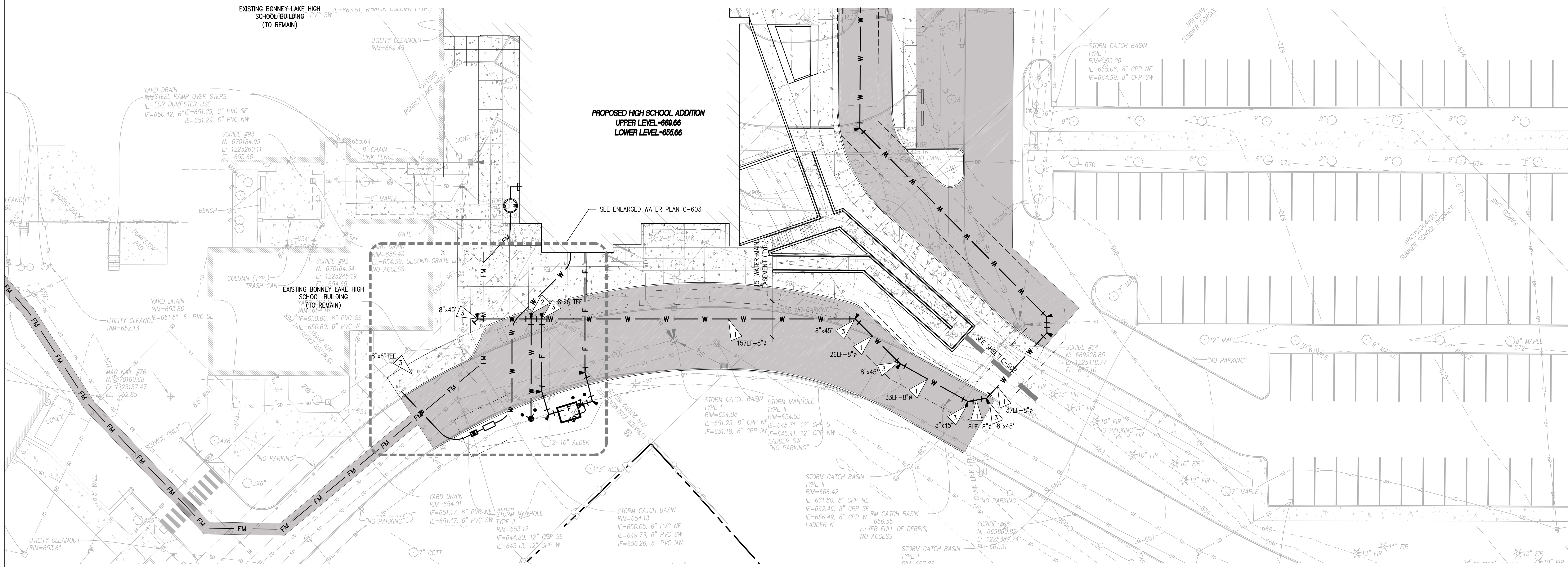
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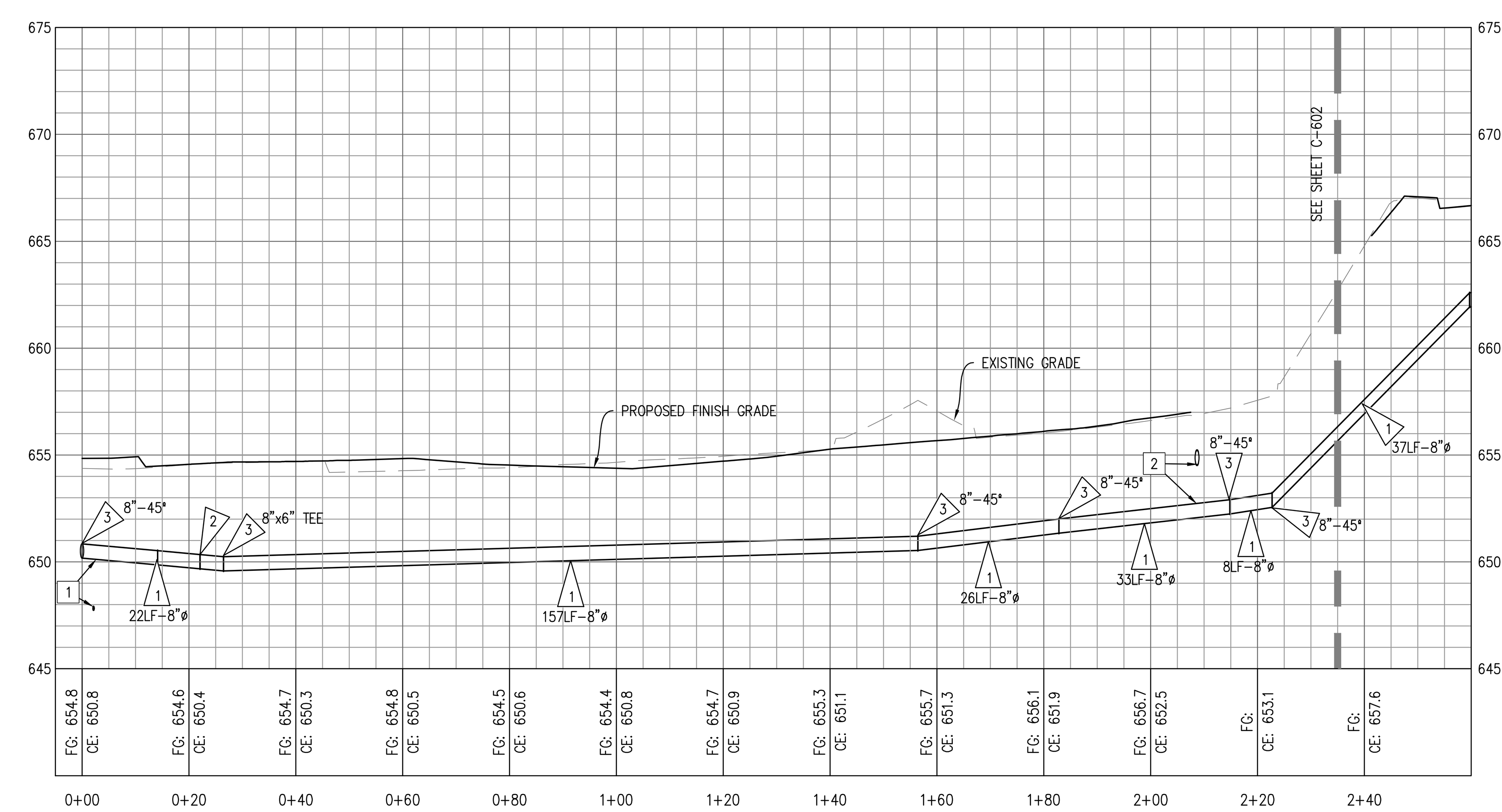
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SHEET
C-600

DESIGN DEVELOPMENT

30x42





WATER UTILITY PLAN AND PROFILE

SCALE: H: 1"=20' V: 1"=5'

HORIZONTAL SCALE: 1"=20'
20 0 20 40
5 0 5 10
VERTICAL SCALE: 1"=5'

NORTH

LEGEND

PROPOSED FEATURES

- W — WATER MAIN PIPE (8" CL52 DIP)
- FIRE SERVICE PIPE (6" CL52 DIP)
- FIRE HYDRANT (FH)
- FITTING W/THRUST BLOCK
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)

CITY STANDARD WATER NOTES

THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS FOR WATER MAIN EXTENSIONS:

A. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.

B. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF BONNEY LAKE APPROVED STANDARDS.

D. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, CITY AND APPROPRIATE PUBLIC AGENCIES.

E. NOTIFY THE CITY OF BONNEY LAKE FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.

F. THE CITY OF BONNEY LAKE SHALL BE NOTIFIED 3 WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH THE CITY REQUIREMENTS. DEVELOPER SHALL NOT OPERATE ANY VALVES WITHIN THE EXISTING SYSTEM; THESE WILL BE OPERATED BY THE CITY OF BONNEY LAKE PERSONNEL ONLY.

G. FOR AID IN UTILITY LOCATION, CALL 811 OR 1-800-424-5555, 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.

H. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 53 FOR 4-INCH PIPE AND CLASS 50 FOR 6-INCH PIPE OR LARGER. JOINTS SHALL BE RUBBER GASKETED, PUSH-ON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN.

I. UNLESS OTHERWISE SPECIFIED VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT SEATED GATE VALVES: ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H OR WATEROUS. VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES. ACCEPTABLE VALVES ARE M&H 450 OR 4500 OR PRATT EQUIVALENT.

J. HYDRANTS SHALL BE MUELLER CENTURION A-423, CLOW MEDALLION, WATEROUS (PACER), AMERICAN AVK (SERIES 2780) OR M&H (929). HYDRANTS SHALL CONFORM TO AWWA STANDARD C502-73.

K. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE CITY OF BONNEY LAKE INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.

L. WHEN DIRECTED BY THE CITY (OR AS SHOWN ON THESE APPROVED CONSTRUCTION PLANS), THE CONTRACTOR SHALL SALVAGE ALL ABANDONED FIRE HYDRANTS, VALVE BOXES, VALVE MARKER POSTS, HYDRANT GUARD POSTS, AND OTHER RELATED APPURTENANCES AND/OR PIPE, AND DELIVER THE MATERIAL TO THE CITY. UNLESS OTHERWISE APPROVED BY THE CITY, SALVAGEABLE MATERIALS THAT FOR ANY REASON ARE DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED WITH NEW MATERIALS AND SUBSEQUENTLY DELIVERED TO THE CITY.

KEY NOTES - WATER MAIN AND FIRE HYDRANT

1. 8"ø CL 52 DUCTILE IRON (D.I.) PIPE, SEE PLAN FOR LENGTH. SEE TRENCH SECTION 02/C-604.
2. 1 - FIRE HYDRANT ASSEMBLY WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING. SEE DETAIL 06/C-604.
3. 1 - HORIZONTAL BEND WITH CONCRETE THRUST BLOCKING AND GATE VALVE. SEE PLAN FOR SIZE AND ANGLE. SEE DETAIL 04/C-604.
4. 1 - GATE VALVE & VALVE BOX WITH RESTRAINED JOINTS, SEE PLAN FOR SIZE. VALVE BOX PER 02/C-605 AND 04/C-605.
5. 6"ø CL52 DUCTILE IRON (D.I.) PIPE, SEE PLAN FOR LENGTH. SEE TRENCH SECTION 02/C-604.
6. 1 - TEE WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING. SEE PLAN FOR SIZE. AND DETAIL -/- FOR THRUST BLOCKING.
7. 2 - BOLLARDS PER -/-
8. CONNECT ONTO THE EXISTING 8" MAIN.
9. VERTICAL BEND WITH CONCRETE THRUST BLOCKING AND MEGA LUGS. SEE PLAN FOR SIZE AND ANGLE. SEE DETAIL 05/C-604. CONCRETE THRUST BLOCKING NOT REQUIRED IF BEND IS 11.25 DEGREES.
10. POTHOLE EXISTING WATER MAIN TO SEE IF 6" OF SEPARATION CAN BE PROVIDED. IF 6" CAN BE PROVIDED, THEN THERE IS NO NEED FOR THE WATER RELOCATION.

CROSSING NOTES

1. BOTTOM 8" WATER: 650.1
TOP SEWER FM: 647.9
SEPARATION: 2.2'

2. BOTTOM 8" STORM: 654.5
TOP 8" WATER: 652.7
SEPARATION: 1.7'

Call 811 two business days before you dig

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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

APPROVED
BY ______
CITY OF BONNEY LAKE
CITY ENGINEER, PE
DATE ______
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SEAL
DAVID FILLMORE
STATE OF WASHINGTON
49452
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
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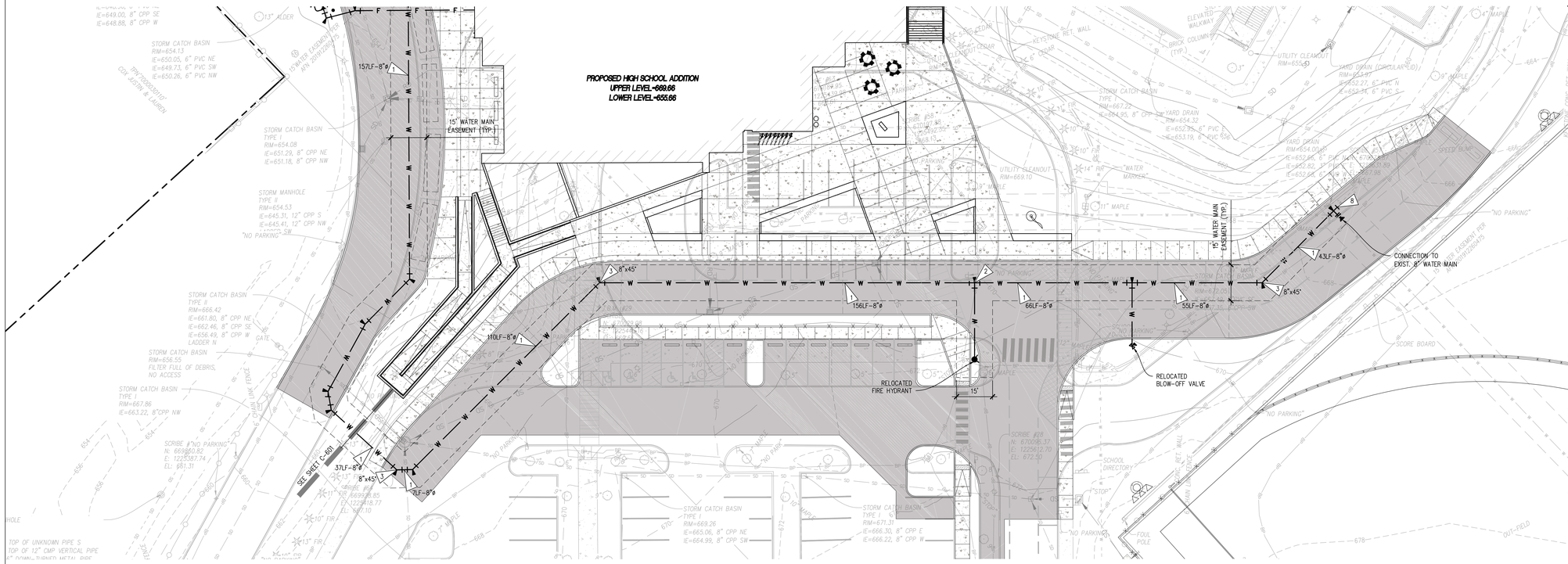
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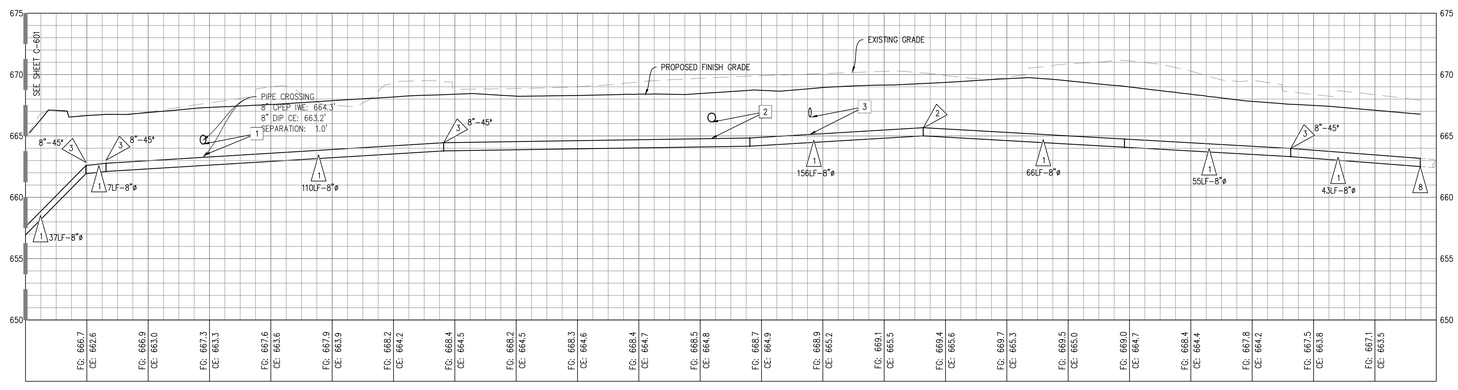
SHEET
C-601

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42





LEGEND

PROPOSED FEATURES

- W — WATER MAIN PIPE (8" CL52 DIP)
- F — FIRE SERVICE PIPE (6" CL52 DIP)
- FIRE HYDRANT (FH)
- FITTING W/THRUST BLOCK
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)

CITY STANDARD WATER NOTES

THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS FOR WATER MAIN EXTENSIONS:

A. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.

B. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF BONNEY LAKE APPROVED STANDARDS.

D. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, CITY AND APPROPRIATE PUBLIC AGENCIES.

E. NOTIFY THE CITY OF BONNEY LAKE FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.

F. THE CITY OF BONNEY LAKE SHALL BE NOTIFIED 3 WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH THE CITY REQUIREMENTS. DEVELOPER SHALL NOT OPERATE ANY VALVES WITHIN THE EXISTING SYSTEM; THESE WILL BE OPERATED BY THE CITY OF BONNEY LAKE PERSONNEL ONLY.

G. FOR AID IN UTILITY LOCATION, CALL 811 OR 1-800-424-5555, 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.

H. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 53 FOR 4-INCH PIPE AND CLASS 50 FOR 6-INCH PIPE OR LARGER. JOINTS SHALL BE RUBBER GASKETED, PUSH-ON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN.

I. UNLESS OTHERWISE SPECIFIED VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT SEATED GATE VALVES: ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H OR WATEROUS. VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES. ACCEPTABLE VALVES ARE M&H 450 OR 4500 OR PRATT EQUIVALENT.

J. HYDRANTS SHALL BE MUELLER CENTURION A-423, CLOW MEDALLION, WATEROUS (PACER), AMERICAN AVK (SERIES 2780) OR M&H (929). HYDRANTS SHALL CONFORM TO AWWA STANDARD C502-73.

K. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE CITY OF BONNEY LAKE INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.

L. WHEN DIRECTED BY THE CITY (OR AS SHOWN ON THESE APPROVED CONSTRUCTION PLANS), THE CONTRACTOR SHALL SALVAGE ALL ABANDONED FIRE HYDRANTS, VALVE BOXES, VALVE MARKER POSTS, HYDRANT GUARD POSTS, AND OTHER RELATED APPURTENANCES AND/OR PIPE, AND DELIVER THE MATERIAL TO THE CITY. UNLESS OTHERWISE APPROVED BY THE CITY, SALVAGEABLE MATERIALS THAT FOR ANY REASON ARE DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED WITH NEW MATERIALS AND SUBSEQUENTLY DELIVERED TO THE CITY.

KEY NOTES - WATER MAIN AND FIRE HYDRANT

1. 8"ø CL 52 DUCTILE IRON (D.I.) PIPE, SEE PLAN FOR LENGTH. SEE TRENCH SECTION 02/C-604.
2. 1 – FIRE HYDRANT ASSEMBLY WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING. SEE DETAIL 06/C-604.
3. 1 – HORIZONTAL BEND WITH CONCRETE THRUST BLOCKING AND GATE VALVE. SEE PLAN FOR SIZE AND ANGLE. SEE DETAIL 04/C-604.
4. 1 – GATE VALVE & VALVE BOX WITH RESTRAINED JOINTS, SEE PLAN FOR SIZE. VALVE BOX PER 02/C-605 AND 04/C-605.
5. 6"ø CL52 DUCTILE IRON (D.I.) PIPE, SEE PLAN FOR LENGTH. SEE TRENCH SECTION 02/C-604.
6. 1 – TEE WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING. SEE PLAN FOR SIZE. AND DETAIL –/– FOR THRUST BLOCKING.
7. 2 – BOLLARDS PER –/–
8. CONNECT ONTO THE EXISTING 8" MAIN.
9. VERTICAL BEND WITH CONCRETE THRUST BLOCKING AND MECA LUGS. SEE PLAN FOR SIZE AND ANGLE. SEE DETAIL 05/C-604. CONCRETE THRUST BLOCKING NOT REQUIRED IF BEND IS 11.25 DEGREES.
10. POTHOLE EXISTING WATER MAIN TO SEE IF 6" OF SEPARATION CAN BE PROVIDED. IF 6" CAN BE PROVIDED, THEN THERE IS NO NEED FOR THE WATER RELOCATION.

CROSSING NOTES

1. BOTTOM 8" STORM: 664.3
   TOP 8" WATER: 663.3
   SEPARATION: 1.0'
2. BOTTOM 8" STORM: 666.1
   TOP 8" WATER: 664.7
   SEPARATION: 1.3'
3. BOTTOM 8" STORM: 666.5
   TOP 8" WATER: 665.1
   SEPARATION: 1.3'

WATER UTILITY PLAN AND PROFILE

SCALE: H: 1"=20' V: 1"=5'

HORIZONTAL SCALE: 1"=20'
20 0 20 40
VERTICAL SCALE: 1"=5'
5 0 5 10

NORTH

811 Call 811 two business days before you dig

APPROVED
BY _____ CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____
NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

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4815 CENTER STREET | TACOMA, WA 98409
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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

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2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

DAVID FILLMORE LANDSCAPE ARCHITECT STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

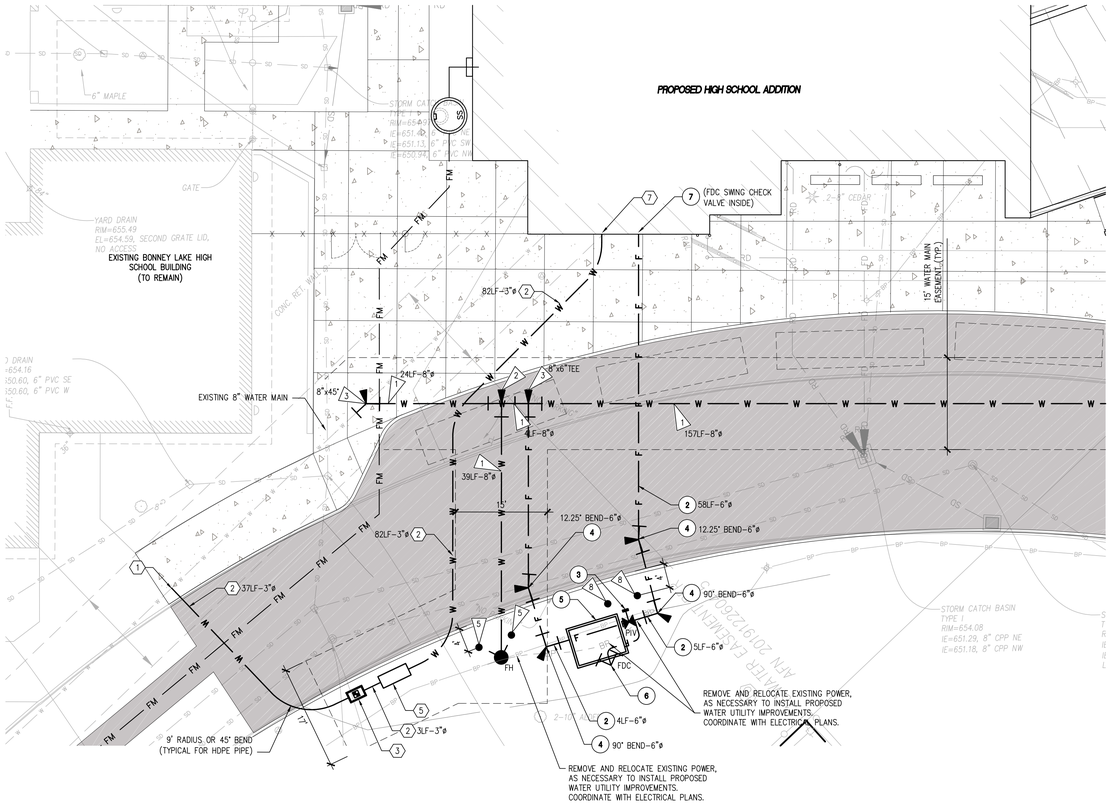
DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE
UTILITY PLAN

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SHEET
C-602

DESIGN DEVELOPMENT

3643



WATER UTILITY PLAN

SCALE: 1"=10'

HORIZONTAL SCALE: 1"=10'

10 0 10 20

NORTH

LEGEND

PROPOSED FEATURES

- W — WATER MAIN PIPE (8" CL52 DIP)
- F — FIRE SERVICE PIPE (6" CL52 DIP)
- FIRE HYDRANT (FH)
- FITTING W/THRUST BLOCK
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)

KEY NOTES - WATER MAIN AND FIRE HYDRANT

1. GATE VALVE. SEE CITY OF BONNEY LAKE DETAIL 02/C-604 AND 04/C-604.
2. 1 - FIRE HYDRANT ASSEMBLY WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING. SEE CITY OF BONNEY LAKE DETAIL 06/C-604.
3. 1 - HORIZONTAL BEND WITH CONCRETE THRUST BLOCKING AND GATE VALVE. SEE PLAN FOR SIZE AND ANGLE. SEE CITY OF BONNEY LAKE DETAIL 04/C-604.
4. 6"ø CL 52 DUCTILE IRON (D.I.) PIPE, SEE PLAN FOR LENGTH. SEE TRENCH SECTION 02/C-604.
5. 2 - BOLLARDS FOR FIRE HYDRANT. SEE DETAIL 06/C-605.

KEY NOTES - FIRE WATER SYSTEM

1. GATE VALVE. SEE CITY OF BONNEY LAKE DETAIL 02/C-605 AND 04/C-605.
2. DUCTILE IRON (D.I.) PIPE, CL 52. SEE PLAN FOR SIZE AND LENGTH. SEE CITY OF BONNEY LAKE TRENCH SECTION 02/C-604.
3. POST INDICATING VALVE. SEE CITY OF BONNEY LAKE DETAIL 03/C-605. TWO (2) BOLLARDS.
4. BEND WITH CONCRETE THRUST BLOCKING. SEE PLAN FOR SIZE AND ANGLE. SEE CITY OF BONNEY LAKE DETAIL 04/C-604.
5. 6" DOUBLE CHECK DETECTOR VALVE ASSEMBLY WITH VAULT, FIRE DEPARTMENT CONNECTION , CHECK VALVE AND POST INDICATOR VALVE. SEE CITY OF BONNEY LAKE DETAIL 03/C-605.
6. FIRE DEPARTMENT CONNECTION (FDC), SEE CITY OF BONNEY LAKE DETAIL 03/C-605.
7. FIRE/FDC WATER SUPPLY, SEE FIRE PROTECTION PLANS. COORDINATE WITH FIRE PROTECTION CONTRACTOR.
8. BOLLARDS FOR PIV. SEE DETAIL 07/C-605.

KEY NOTES - DOMESTIC WATER SYSTEM

1. TEE WITH RESTRAINED JOINTS & CONCRETE THRUST BLOCKING.
2. HIGH DENSITY POLYETHYLENE SDR7 (200 PSI) DOMESTIC WATER PIPE. SEE PLAN FOR SIZE AND LENGTH.
3. 2-INCH DOMESTIC WATER METER. TO BE FURNISHED AND INSTALLED BY THE CITY OF BONNEY LAKE.
4. DUCTILE IRON (D.I.) PIPE, CL 52. SEE PLAN FOR SIZE AND LENGTH. SEE CITY OF BONNEY LAKE TRENCH SECTION 02/C-604.
5. REDUCED PRESSURE BACKFLOW ASSEMBLY. SEE CITY OF BONNEY LAKE DETAIL 05/C-605.
6. BEND. SEE PLAN FOR ANGLE AND SIZE.
7. DOMESTIC WATER SUPPLY, SEE PLUMBING PLANS. COORDINATE WITH PLUMBING CONTRACTOR.

CITY STANDARD WATER NOTES

THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS FOR WATER MAIN EXTENSIONS:

A. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF BONNEY LAKE.

B. AN APPROVED COPY OF THESE PLANS MUST BE ON THE JOBSITE WHENEVER CONSTRUCTION IS IN PROGRESS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF BONNEY LAKE APPROVED STANDARDS.

D. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, CITY AND APPROPRIATE PUBLIC AGENCIES.

E. NOTIFY THE CITY OF BONNEY LAKE FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.

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2106 PACIFIC AVENUE, SUITE 200, TACOMA, WA 98402

SEAL

DAVID FILIPOVICH — STATE OF WASHINGTON — 24143 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026

BCRA NO. 24143

DRAWN BY: DF/KNL/MLM

REVIEWED BY: DF/MLM

SHEET TITLE
ENLARGED WATER UTILITY LAYOUT

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

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bcra

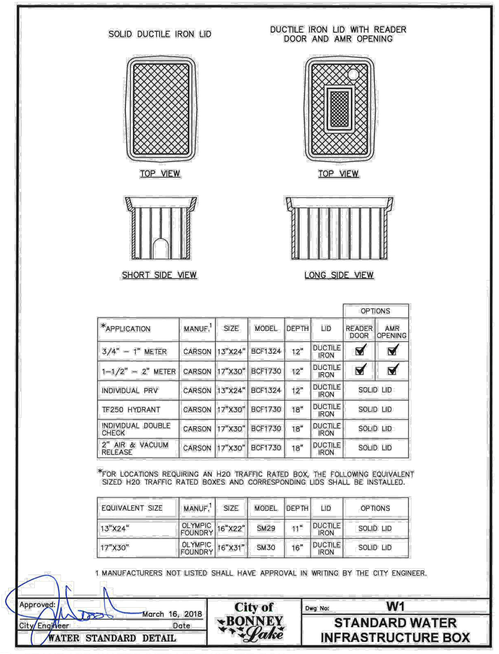
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SHEET
C-603

DESIGN DEVELOPMENT

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39642



*APPLICATION	MANUF.[1]	SIZE	MODEL	DEPTH	LID	OPTIONS: READER DOOR	OPTIONS: AMR OPENING
3/4" – 1" METER	CARSON	13"X24"	BCF1324	12"	DUCTILE IRON	☑	☑
1–1/2" – 2" METER	CARSON	17"X30"	BCF1730	12"	DUCTILE IRON	☑	☑
INDIVIDUAL PRV	CARSON	13"X24"	BCF1324	12"	DUCTILE IRON		SOLID LID
TF250 HYDRANT	CARSON	17"X30"	BCF1730	18"	DUCTILE IRON		SOLID LID
INDIVIDUAL DOUBLE CHECK	CARSON	17"X30"	BCF1730	18"	DUCTILE IRON		SOLID LID
2" AIR & VACUUM RELEASE	CARSON	17"X30"	BCF1730	18"	DUCTILE IRON		SOLID LID

*FOR LOCATIONS REQUIRING AN H20 TRAFFIC RATED BOX, THE FOLLOWING EQUIVALENT SIZED H20 TRAFFIC RATED BOXES AND CORRESPONDING LIDS SHALL BE INSTALLED.

EQUIVALENT SIZE	MANUF.[1]	SIZE	MODEL	DEPTH	LID	OPTIONS
13"X24"	OLYMPIC FOUNDRY	16"X22"	SM29	11"	DUCTILE IRON	SOLID LID
17"X30"	OLYMPIC FOUNDRY	16"X31"	SM30	16"	DUCTILE IRON	SOLID LID

1 MANUFACTURERS NOT LISTED SHALL HAVE APPROVAL IN WRITING BY THE CITY ENGINEER.

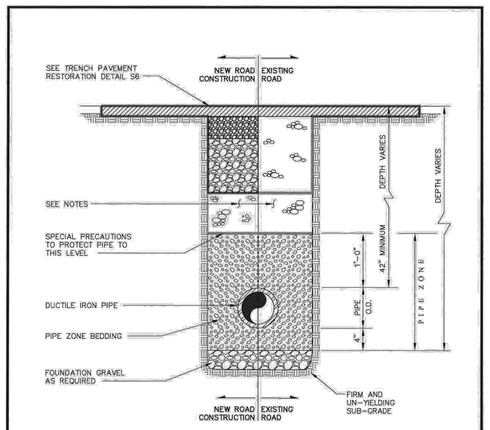
Approved: March 16, 2018 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W1

STANDARD WATER INFRASTRUCTURE BOX

01 STANDARD WATER INFRASTRUCTURE BOX
SCALE: N.T.S.



NOTES:

1. TRENCH SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH WSDOT 7-09.3(10) & (11) OR AS APPROVED IN WRITING BY THE CITY ENGINEER.
2. PIPE ZONE BEDDING SHALL BE GRAVEL BACKFILL FOR PIPE ZONE BEDDING IN ACCORDANCE WITH WSDOT 9-03.12(3) OR AS APPROVED IN WRITING BY THE CITY ENGINEER.
3. FOR EXISTING ROADS, BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE 1½" CRUSHED ROCK. FOR NEW ROAD CONSTRUCTION, BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE GRAVEL BORROW OR SELECT BORROW IN ACCORDANCE WITH WSDOT 9-03.14 OR 1½" CRUSHED ROCK OR AS APPROVED IN WRITING BY THE CITY ENGINEER.

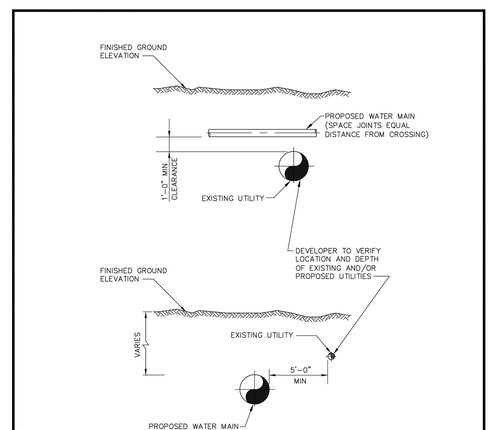
Approved: March 16, 2018 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W2

WATER MAIN TRENCH SECTION

02 WATER MAIN TRENCH SECTION
SCALE: N.T.S.



NOTES:

1. PIPE ENCASEMENT SHALL BE UTILIZED, IF APPROVED BY THE CITY, AT LOCALIZED UTILITY CROSSING IF MINIMUM PIPE SEPARATION (ELEVATION) CANNOT BE MAINTAINED/ACHIEVED. CASING MATERIALS, SPACERS AND END SEALS SHALL BE INSTALLED PER SECTION 406-2(5) OF THESE STANDARDS OR AS APPROVED BY THE CITY.
2. CLEARANCES SHOWN ON THIS PLAN ARE MINIMUM CLEARANCES FOR ALL UTILITIES EXCEPT SANITARY SEWER. IN CASES WHERE THE WATER MAIN WILL CROSS A SEWER MAIN, THE MINIMUM CLEARANCES AS SPECIFIED BY THE WASHINGTON STATE DEPARTMENT OF HEALTH SHALL BE FOLLOWED. SEE SECTION 406-2.

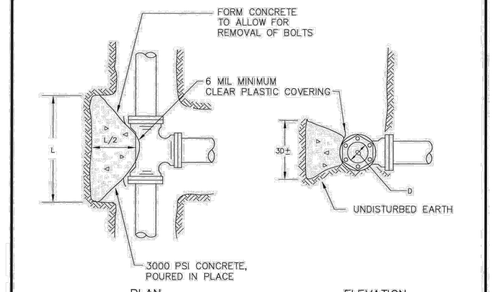
Approved: February 14, 2020 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W3

TYPICAL UTILITY CROSSING

03 TYPICAL UTILITY CROSSING
SCALE: N.T.S.



MINIMUM BEARING AREA TABLE					
FITTING DIA	TEE	90°	45°	22 1/2°	11 1/4°
6"	4 SQ.FT.	5 SQ.FT.	3 SQ.FT.	2 SQ.FT.	2 SQ.FT.
8"	7 SQ.FT.	9 SQ.FT.	5 SQ.FT.	3 SQ.FT.	2 SQ.FT.
10"	10 SQ.FT.	14 SQ.FT.	8 SQ.FT.	4 SQ.FT.	2 SQ.FT.
12"	15 SQ.FT.	20 SQ.FT.	11 SQ.FT.	6 SQ.FT.	3 SQ.FT.
16"	29 SQ.FT.	36 SQ.FT.	20 SQ.FT.	10 SQ.FT.	5 SQ.FT.

NOTE:

BEARING AREA TABLE BASED ON 250 PSI PRESSURE AND 2000 PSF SOIL BEARING. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED. USE WSDOT STD PLAN B-22a FOR SIZING THRUST BLOCKS.

THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

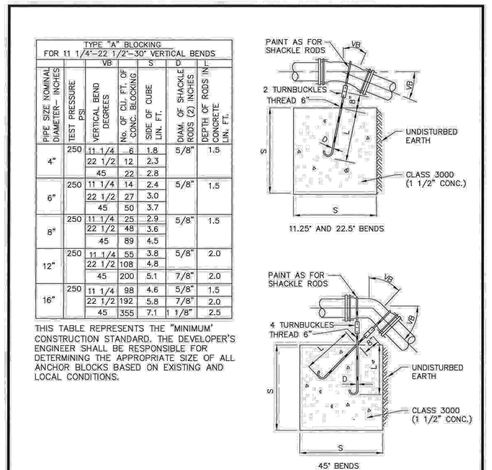
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City of BONNEY Lake

Dwg No: W4

CONCRETE THRUST BLOCK

04 CONCRETE THRUST BLOCK
SCALE: N.T.S.



PIPE SIZE NOMINAL DIAMETER – INCHES	TEST PRESSURE PSI	V/B VERTICAL BEND DEGREES	V/B NO. OF CU. FT. OF CONC. BLOCKING	S SIDE OF CUBE LIN. FT.	D DIAM. OF SHACKLE RODS (2) INCHES	L DEPTH OF RODS IN LIN. FT.
4"	250	11 1/4	6	1.8	5/8"	1.5
		22 1/2	12	2.3		
		45	22	2.8		
6"	250	11 1/4	14	2.4	5/8"	1.5
		22 1/2	27	3.0		
		45	50	3.7		
8"	250	11 1/4	23	2.9	5/8"	1.5
		22 1/2	48	3.6		
		45	89	4.5		
12"	250	11 1/4	55	3.8	5/8"	2.0
		22 1/2	108	4.8		
		45	200	5.1	7/8"	2.0
16"	250	11 1/4	98	4.6	5/8"	1.5
		22 1/2	192	5.8	7/8"	2.0
		45	355	7.1	1 1/8"	2.5

THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARD. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL ANCHOR BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

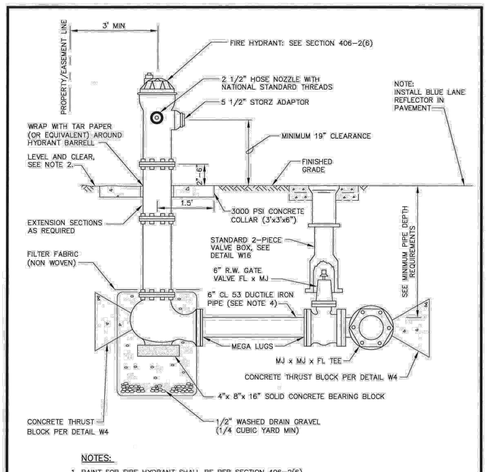
Approved: March 16, 2018 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W5

VERTICAL ANCHOR BLOCK

05 VERTICAL ANCHOR BLOCK
SCALE: N.T.S.



NOTES:

1. PAINT FOR FIRE HYDRANT SHALL BE PER SECTION 406-2(6).
2. A MINIMUM OF 3' (RADIUS) MUST BE MAINTAINED AT A LEVEL GRADE AROUND HYDRANT. GRADING TO INCLUDE RETAINING WALLS WHEN SLOPES MUST EXCEED 2H:1V TO ACHIEVE LEVEL AREA.
3. INSTALL APPROPRIATELY SIZED STORM CULVERT IN DITCH SECTIONS AS APPLICABLE. 15' MIN LENGTH AND 12" MIN DIAMETER.
4. RELOCATED HYDRANTS REQUIRE NEW 6" DI CL 53 PIPE WITH MEGALUGS BETWEEN THE GATE VALVE AND FIRE HYDRANT. NEW RUBBER GASKETS SHALL BE INSTALLED AT EACH CONNECTION.

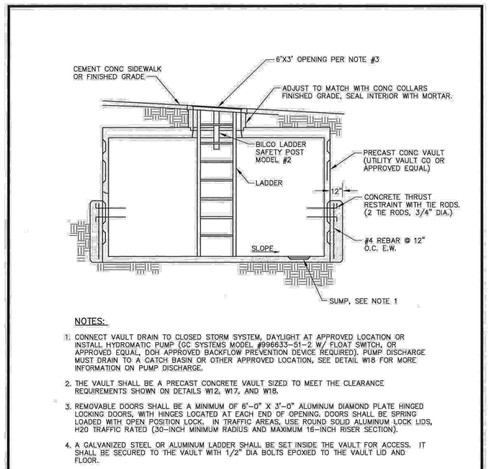
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City of BONNEY Lake

Dwg No: W8

FIRE HYDRANT INSTALLATION

06 FIRE HYDRANT INSTALLATION
SCALE: N.T.S.



NOTES:

1. CONNECT VAULT DRAIN TO CLOSED STORM SYSTEM, DAYLIGHT AT APPROVED LOCATION OR INSTALL HYDROMATIC PUMP (GC SYSTEMS MODEL #996633-51-2 W/ FLOAT SWITCH, OR APPROVED EQUAL, DOH APPROVED BACKFLOW PREVENTION DEVICE REQUIRED). PUMP DISCHARGE MUST DRAIN TO A CATCH BASIN OR OTHER APPROVED LOCATION, SEE DETAIL W18 FOR MORE INFORMATION ON PUMP DISCHARGE.
2. THE VAULT SHALL BE A PRECAST CONCRETE VAULT SIZED TO MEET THE CLEARANCE REQUIREMENTS SHOWN ON DETAILS W12, W17, AND W18.
3. REMOVABLE DOORS SHALL BE A MINIMUM OF 6'-0" X 3'-0" ALUMINUM DIAMOND PLATE HINGED LOCKING DOORS, WITH HINGES LOCATED AT EACH END OF OPENING. DOORS SHALL BE SPRING LOADED WITH OPEN POSITION LOCK. IN TRAFFIC AREAS, USE ROUND SOLID ALUMINUM LOCK LIDS, H20 TRAFFIC RATED (30-INCH MINIMUM RADIUS AND MAXIMUM 16-INCH RISER SECTION).
4. A GALVANIZED STEEL OR ALUMINUM LADDER SHALL BE SET INSIDE THE VAULT FOR ACCESS. IT SHALL BE SECURED TO THE VAULT WITH 1/2" DIA BOLTS EPOXIED TO THE VAULT LID AND FLOOR.
5. A BILCO LADDER SAFETY POST MODEL #2 SHALL BE ATTACHED TO THE LADDER STEPS.
6. ALL VAULT PENETRATIONS SHALL BE MECHANICALLY SEALED.
7. COAT INTERIOR WALLS, DI PIPE, FITTINGS AND STEEL FASTENERS W/ POLYMIDE EPOXY PAINT, 2 COATS AT 5 DRY MILS EACH. COLORS: OFF WHITE FOR WALLS AND BONNEY LAKE 8610-14514 T/M WATER BLUE FOR PIPE. PIPE SHALL BE EMPTY DURING COATING.
8. COAT VAULT EXTERIOR WITH 20 MIL COAL TAR EPOXY.

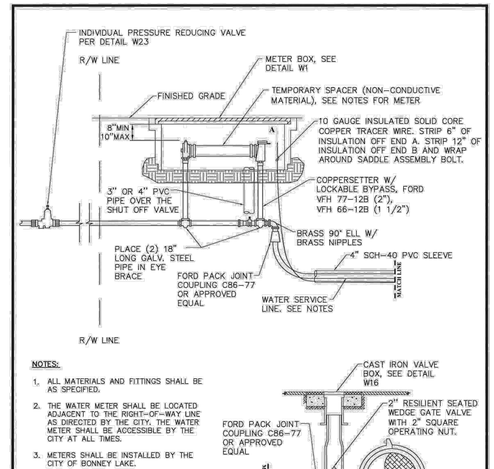
Approved: March 16, 2018 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W9

WATER SYSTEM VAULT

07 WATER SYSTEM VAULT
SCALE: N.T.S.



NOTES:

1. ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED.
2. THE METER METER SHALL BE LOCATED ADJACENT TO THE RIGHT-OF-WAY LINE AS DIRECTED BY THE CITY. THE WATER METER SHALL BE ACCESSIBLE BY THE CITY AT ALL TIMES.
3. METERS SHALL BE INSTALLED BY THE CITY OF BONNEY LAKE.
4. WATER SERVICE LINE SHALL BE HIGH MOLECULAR POLYETHYLENE SDR7 (200 PSI).
5. INDIVIDUAL PRESSURE REDUCING VALVE (WASHINGTON STATE DEPARTMENT OF HEALTH APPROVED) IS REQUIRED.
6. STAINLESS STEEL STIFFENERS SHALL BE INCLUDED WITH ALL PACK JOINT COUPLINGS.

Approved: March 16, 2018 — City Engineer — Date — WATER STANDARD DETAIL

City of BONNEY Lake

Dwg No: W11

1-1/2" AND 2" WATER SERVICE

08 1-1/2" AND 2" WATER SERVICE
SCALE: N.T.S.

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SEAL

DAVID F. LIMMER — STATE OF WASHINGTON — 22888 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

PROJECT
SUMNER-BONNEY LAKE SCHOOL DISTRICT
BONNEY LAKE HIGH SCHOOL EXPANSION
10920 199TH AVE CT E
BONNEY LAKE, WA 98391

REVISIONS

DATE 3.2.2026
BCRA NO. 24143
DRAWN BY: DF/KNL/MLM
REVIEWED BY: DF/MLM
SHEET TITLE: WATER UTILITY DETAILS

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Project No.: 20,939	Project Mgr.: MLM/DDF
Proj. Engineer: KNL/DDF	Proj. Drafter: KLK

APPROVED
BY _____ CITY OF BONNEY LAKE CITY ENGINEER, PE
DATE _____

NOTE: This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

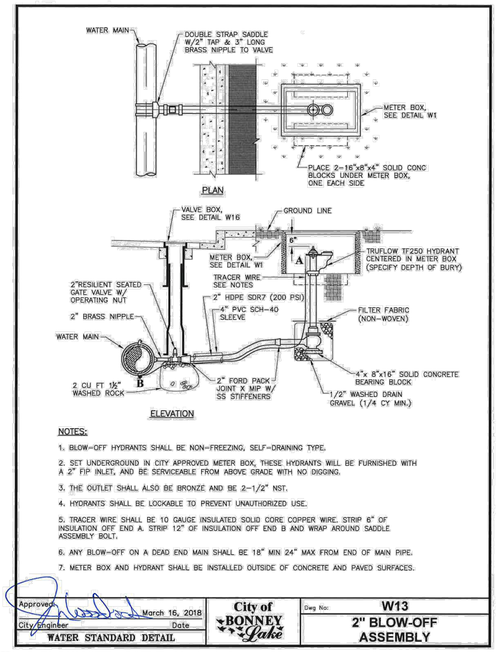
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SHEET
C-604

DESIGN DEVELOPMENT

IF SHEET MEASURES LESS THAN 30"X42", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

30x42

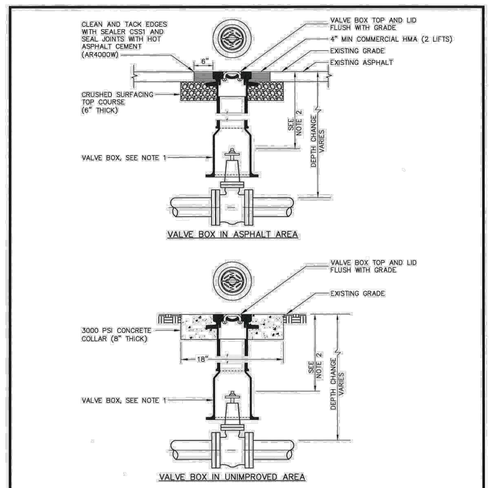


NOTES:

1. BLOW-OFF HYDRANTS SHALL BE NON-FREEZING, SELF-DRAINING TYPE.
2. SET UNDERGROUND IN CITY APPROVED METER BOX, THESE HYDRANTS WILL BE FURNISHED WITH A 2" FIP INLET, AND BE SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING.
3. THE OUTLET SHALL ALSO BE BRONZE AND BE 2-1/2" NST.
4. HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.
5. TRACER WIRE SHALL BE 10 GAUGE INSULATED SOLID CORE COPPER WIRE. STRIP 6" OF INSULATION OFF END A. STRIP 12" OF INSULATION OFF END B AND WRAP AROUND SADDLE ASSEMBLY BOLT.
6. ANY BLOW-OFF ON A DEAD END MAIN SHALL BE 18" MIN 24" MAX FROM END OF MAIN PIPE.
7. METER BOX AND HYDRANT SHALL BE INSTALLED OUTSIDE OF CONCRETE AND PAVED SURFACES.

Approved:	March 16, 2018	City of BONNEY Lake	Dwg No: W13
City Engineer	Date		2" BLOW-OFF ASSEMBLY
WATER STANDARD DETAIL			

01 2" BLOW-OFF ASSEMBLY
SCALE: N.T.S.

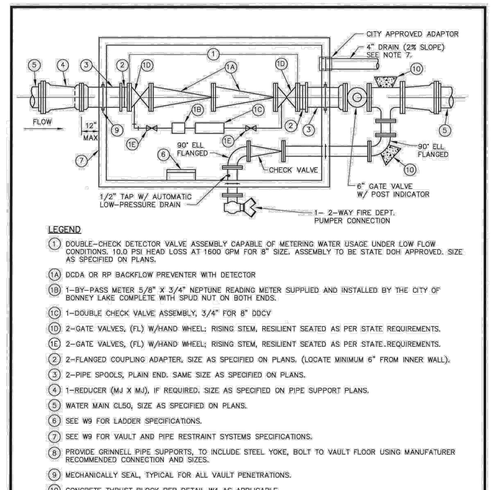


NOTES:

1. EACH VALVE SHALL BE PROVIDED WITH THE FOLLOWING OLYMPIC FOUNDRY VALVE BOX PARTS OR APPROVED EQUALS: LID PART NO. 13-5010, TOP PART NO. 13-5020, & BASE PART NO. 13-5021.
2. 15" MINIMUM, 36" MAXIMUM FOR OPERATOR NUT. EXTENSION MAY BE REQUIRED, SEE DETAIL W19.
3. AS REQUIRED BY THE CITY, A VALVE MARKER POST PER DETAIL W24 SHALL BE INSTALLED WITH THE VALVE BOX IN UNIMPROVED AREAS.
4. VALVE BOX SHALL BE CENTERED ON VALVE.

Approved:	March 16, 2018	City of BONNEY Lake	Dwg No: W16
City Engineer	Date		VALVE BOX
WATER STANDARD DETAIL			

02 VALVE BOX
SCALE: N.T.S.



LEGEND

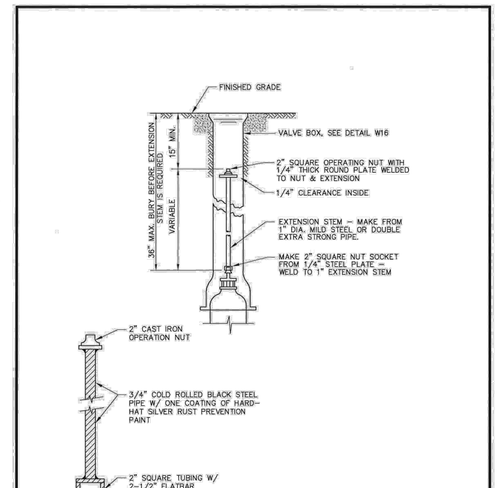
1. DOUBLE-CHECK DETECTOR VALVE ASSEMBLY CAPABLE OF METERING WATER USAGE UNDER LOW FLOW CONDITIONS. 10.0 PSI HEAD LOSS AT 1600 GPM FOR 8" SIZE. ASSEMBLY TO BE STATE DOH APPROVED. SIZE AS SPECIFIED ON PLANS.
- 1A DCDA OR RP BACKFLOW PREVENTER WITH DETECTOR
- 1B 1-BY-PASS METER 5/8" X 3/4" NEPTUNE READING METER SUPPLIED AND INSTALLED BY THE CITY OF BONNEY LAKE COMPLETE WITH SPUD NUT ON BOTH ENDS.
- 1C 1-DOUBLE CHECK VALVE ASSEMBLY, 3/4" FOR 8" DDCV
- 10 2-GATE VALVES, (FL) W/HAND WHEEL; RISING STEM, RESILIENT SEATED AS PER STATE REQUIREMENTS.
- 1E 2-GATE VALVES, (FL) W/HAND WHEEL; RISING STEM, RESILIENT SEATED AS PER STATE.REQUIREMENTS.
2. 2-FLANGED COUPLING ADAPTER, SIZE AS SPECIFIED ON PLANS. (LOCATE MINIMUM 6" FROM INNER WALL).
3. 2-PIPE SPOOLS, PLAIN END. SAME SIZE AS SPECIFIED ON PLANS.
4. 1-REDUCER (MJ X MJ), IF REQUIRED. SIZE AS SPECIFIED ON PIPE SUPPORT PLANS.
5. WATER MAIN CL50, SIZE AS SPECIFIED ON PLANS.
6. SEE W9 FOR LADDER SPECIFICATIONS.
7. SEE W9 FOR VAULT AND PIPE RESTRAINT SYSTEMS SPECIFICATIONS.
8. PROVIDE GRINNELL PIPE SUPPORTS, TO INCLUDE STEEL YOKE, BOLT TO VAULT FLOOR USING MANUFATURER RECOMMENDED CONNECTION AND SIZES.
9. MECHANICALLY SEAL, TYPICAL FOR ALL VAULT PENETRATIONS.
10. CONCRETE THRUST BLOCK PER DETAIL W4 AS APPLICABLE.

NOTES:

1. PAINT ALL PIPING WITH SHERWIN WILLIAMS INDUSTRIAL ENAMEL VOC B54Z SERIES IN BONNEY LAKE COLOR 8610-14514 T/M WATER BLUE.
2. PROVIDE GRINNEL PIPE SUPPORTS, WHERE REQUIRED (3 MINIMUM).
3. ALL PIPE JOINTS SHALL BE RESTRAINED. CONCRETE BLOCKING REQUIRED AT CHANGES IN DIRECTION.
4. PROVIDE 6 INCH CLEARANCE BETWEEN VALVES, FITTINGS, AND WALLS.

Approved:	March 16, 2018	City of BONNEY Lake	Dwg No: W17
City Engineer	Date		DOUBLE-CHECK DETECTOR WITH FIRE CONNECTION
WATER STANDARD DETAIL			

03 DOUBLE-CHECK DETECTOR WITH FIRE CONNECTION
SCALE: N.T.S.

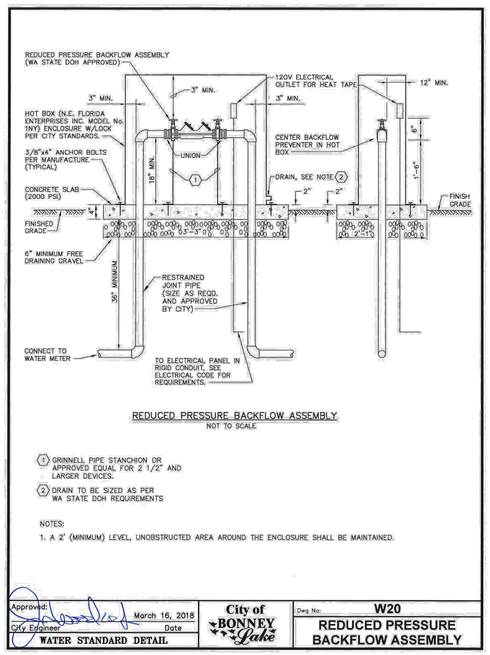


NOTES:

1. VALVE BOX SHALL BE CENTERED ON VALVE

Approved:	March 16, 2018	City of BONNEY Lake	Dwg No: W19
City Engineer	Date		WATER VALVE STEM EXTENSION
WATER STANDARD DETAIL			

04 WATER VALVE STEM EXTENSION
SCALE: N.T.S.



REDUCED PRESSURE BACKFLOW ASSEMBLY
NOT TO SCALE

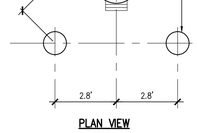
1. GRINNELL PIPE STANCHION OR APPROVED EQUAL FOR 2 1/2" AND LARGER DEVICES.
2. DRAIN TO BE SIZED AS PER WA STATE DOH REQUIREMENTS

NOTES:

1. A 2' (MINIMUM) LEVEL, UNOBSTRUCTED AREA AROUND THE ENCLOSURE SHALL BE MAINTAINED.

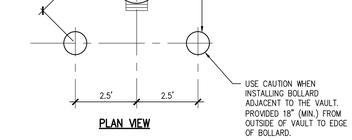
Approved:	March 16, 2018	City of BONNEY Lake	Dwg No: W20
City Engineer	Date		REDUCED PRESSURE BACKFLOW ASSEMBLY
WATER STANDARD DETAIL			

05 REDUCED PRESSURE BACKFLOW ASSEMBLY
SCALE: N.T.S.



PLAN VIEW

06 FIRE HYDRANT BOLLARD DETAIL
SCALE: N.T.S.



PLAN VIEW

07 POST INDICATOR VALVE BOLLARD DETAIL
SCALE: N.T.S.

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Project No.:	20,939	Project Mgr.:	MLM/DDF
Proj. Engineer:	KNL/DDF	Proj. Drafter:	KLK

APPROVED
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DATE _____
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