

Information for File # 2015-02526-ARC

Applicant Ken Scarbrough - Cloquet Independent School District 94

Corps Contact Andrew R Chambers

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Primary County Carlton County

Section 24

Township 49N

Range 17W

Information Complete On February 22, 2016

Posting Expires On March 28, 2016

Authorization Type LOP-05-MN

This application is being reviewed in accordance with current practices for documenting Corps jurisdiction under Section(s) 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act.

We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are subject to Corps of Engineers jurisdiction under Section(s) 9 & 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act. If an approved jurisdictional determination is completed as part of the review process for this application, a copy will be posted on the St. Paul District web page at the following link:
<http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

Project:

Cloquet Independent School District 94 is proposing to construct a new middle school on a vacant lot south of the existing high school on 18th Street, Cloquet, MN. This work is needed to replace the outdated and undersized middle school.

PROJECT DESCRIPTION AND PURPOSE:

A Facilities Planning Task Force, along with a third-party random sample, reached the conclusion that the school district needs to replace the aging, outdated, and undersized middle school. The school district proposes to construct the new middle school on a vacant parcel south of the existing Cloquet High School because of its current ownership by the school district, its proximity to the high school, existing municipal services, and its central location for community use and transportation convenience.

The new Cloquet Middle School would be approximately 142,123 square feet with multiple levels, an 8 lane indoor pool, a 1700 seat gymnasium, 166 stalls of parking, storm water treatment areas, and an access road with 8' walking path from Washington Avenue. The school

would create educational opportunities for 800 students, grades 5-8, as well as a facility for community use and physical education.

A 650' long by 24' wide access road, with a turn lane and an 8' walking path is proposed off of Washington Avenue conveying traffic to two parking lots. The east parking lot consists of 43 stalls, and the west parking lot consists of 122 stalls. Two infiltration basins and 1 storm water pond are proposed for true infiltration of storm water. The school would have a 1700 seat gymnasium with three basketball courts and an 8 lane indoor pool; both would serve as recreational facilities for the community as well as for middle school and high school events.

Erosion control measures would be in place such as silt fence, erosion control blanket, sediment control logs, and sediment control devices at storm sewer inlets. The disturbed areas would be reseeded and/or planted to limit erosion and further impact to wetlands.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS:

The project would result in permanent impact to 23,942 square feet (0.55 acres) of wet meadow and forested wetlands adjacent to an unnamed tributary to the St. Louis River. The work for this project would include the construction of an access road with a turn lane and 8' walking path through a small wetland, accounting for 1,250 square feet of wetland impacts. The work for this project would also include the construction of two parking lots and a 142,123 square-foot middle school, accounting for 22,750 square feet of wetland impacts. Erosion control measures would be in place to ensure additional wetland impacts do not occur. All affected areas would be restored, seeded, and/or planted as necessary to restore vegetation and prevent erosion.

ALTERNATIVES CONSIDERED:

The no build alternative consisted of preserving the site, and leaving the students to use the existing facility. This alternative was abandoned due to the need for an updated and reliable middle school with physical education qualities utilized for extracurricular activities and by the community.

Alternative 1 – This is the original concept consisting of a 142,123 square-foot school, 650' long by 24' wide access road, and 664 parking stalls. This alternative required 92,000 square feet (2.11 acres) of wetland impact and was dismissed.

Alternative 2 – This is the revised concept to alternative 1. The gymnasium seating was reduced from 2500 seats to 1700 seats. According to the 1 stall per 5 gymnasium ratio, this allowed for a reduction in parking stalls from 664 to 355. This alternative still required 50,000 square feet (1.15 acres) of wetland impact. Due to the high amount of wetland impact, this alternative was also dismissed.

Preferred Alternative – This has the same building configuration and driveway entrance as alternatives 1 & 2. However, the school district took the high school parking stalls into account for the gymnasium to parking ratio. This allowed for the number of parking stalls to be reduced to 166. This alternative has reduced wetland impacts by 52%, and for this reason it is the preferred alternative.

COMPENSATORY MITIGATION:

The applicant proposes to compensate for the loss of function associated with this project by purchasing 0.55 acres of wet meadow wetland credits to be debited from the University of Minnesota Wetland Mitigation Bank in Bank Service Area 1.

Drawings See attached.



U.S. Fish and Wildlife Service

National Wetlands Inventory

CLOQUET MIDDLE SCHOOL

Jul 15, 2015



Wetlands

-  Freshwater Emergent
-  Freshwater Forested/Shrub
-  Estuarine and Marine Deepwater
-  Estuarine and Marine
-  Freshwater Pond
-  Lake
-  Riverine
-  Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

2015-02526-ARC
Drawing 1 of 7

ISD 94 Cloquet School District

Cloquet Middle School

Legend

-  Cloquet Senior High School
-  Safety-Kleen Systems
-  Sather Park
-  St Paul's Lutheran Church

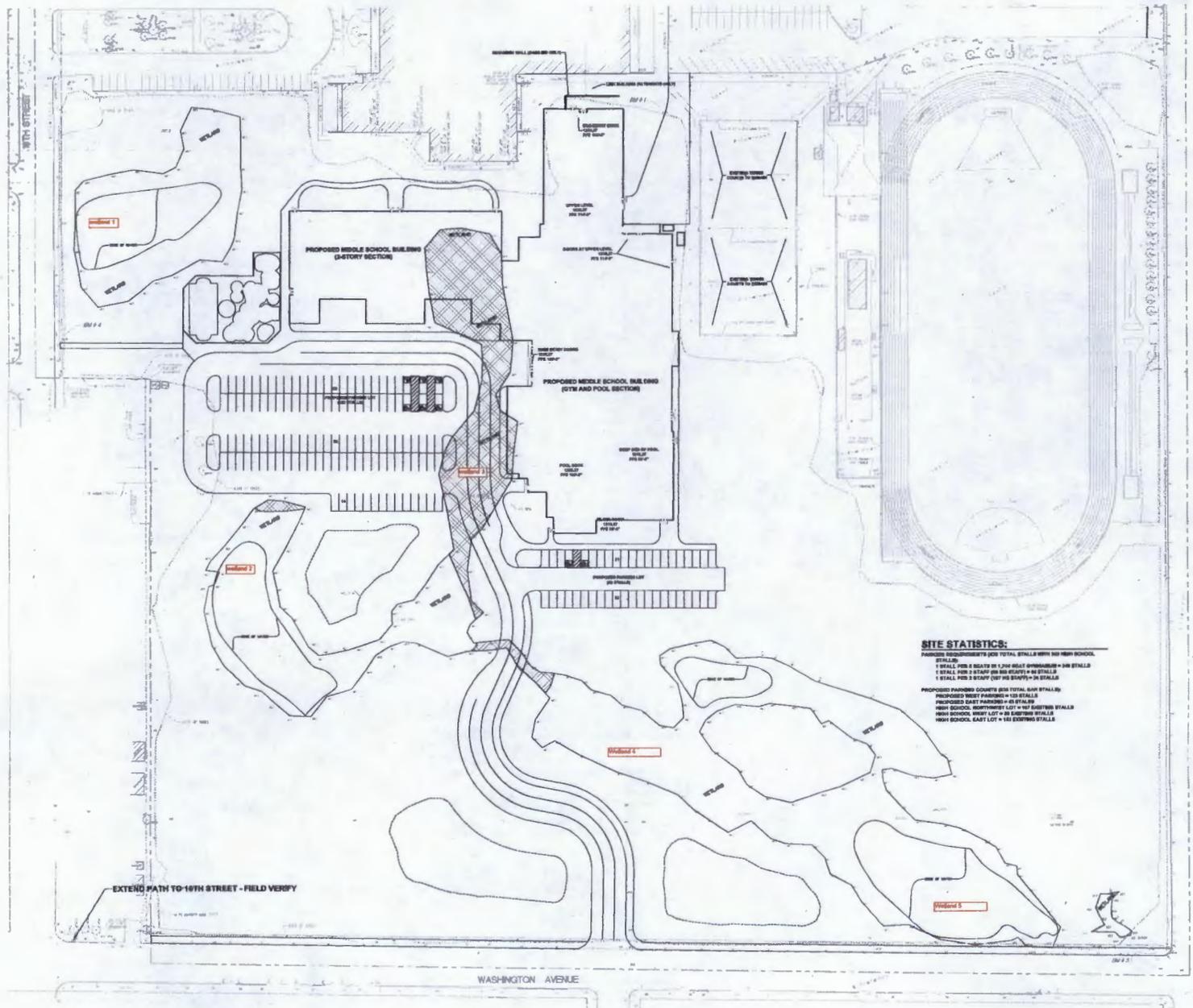


Google earth

© 2015 Google

2015-02526-ARC
Drawing 2 of 7

900 ft



SITE STATISTICS:
 PARKING REQUIREMENTS ARE TOTAL STALLS WITH NO HIGH SCHOOL STALLS:
 1 STALL FOR 2 SEATS IN 1.2M DEATH APPROXIMATE = 300 STALLS
 1 STALL FOR 2 SEATS IN 1.2M DEATH = 180 STALLS
 1 STALL FOR 2 SEATS (NOT IN DEATH) = 24 STALLS
 PROPOSED PARKING COUNTS AND TOTAL SEAT STALLS:
 PROPOSED MIDDLE SCHOOL = 124 STALLS
 PROPOSED EAST PARKING = 80 STALLS
 HIGH SCHOOL, WESTWINDS LOT = 160 STALLS
 HIGH SCHOOL, WEST LOT = 80 STALLS
 HIGH SCHOOL, EAST LOT = 160 STALLS



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PROJECT NO. 2017-02526-ARC
 SHEET NO. C1.32
 DATE: 08/15/15
 DRAWN BY: MEY
 CHECKED BY: DAR
 SCALE: 1" = 40'

Project No. 2017
CLOQUET NEW MIDDLE SCHOOL
 Commission Number 2078

Sheet Title
SITE PLAN SOUTH

2015-02526-ARC
 Drawing 3 of 7

Drawn by MEY
 Checked by DAR
 Date: 08/15/15
 Revised
 Scale: 1" = 40'
 Sheet Number

C1.32

EXCERPT FROM THE SWPPP NARRATIVE

The following is from the Storm Water Pollution Prevention Plan Narrative, Section 01 of the Project Manual, in accordance with Section 10.01.01 of the Contract Documents. It is intended to provide a summary of the information required by the SWPPP Narrative and the "Table of Terminology" in Appendix A of the Project Manual. Should differences arise between the SWPPP Narrative and the information contained within the Project Manual, the SWPPP Narrative, based upon the Project Manual, shall govern.

V. General Construction Erosion

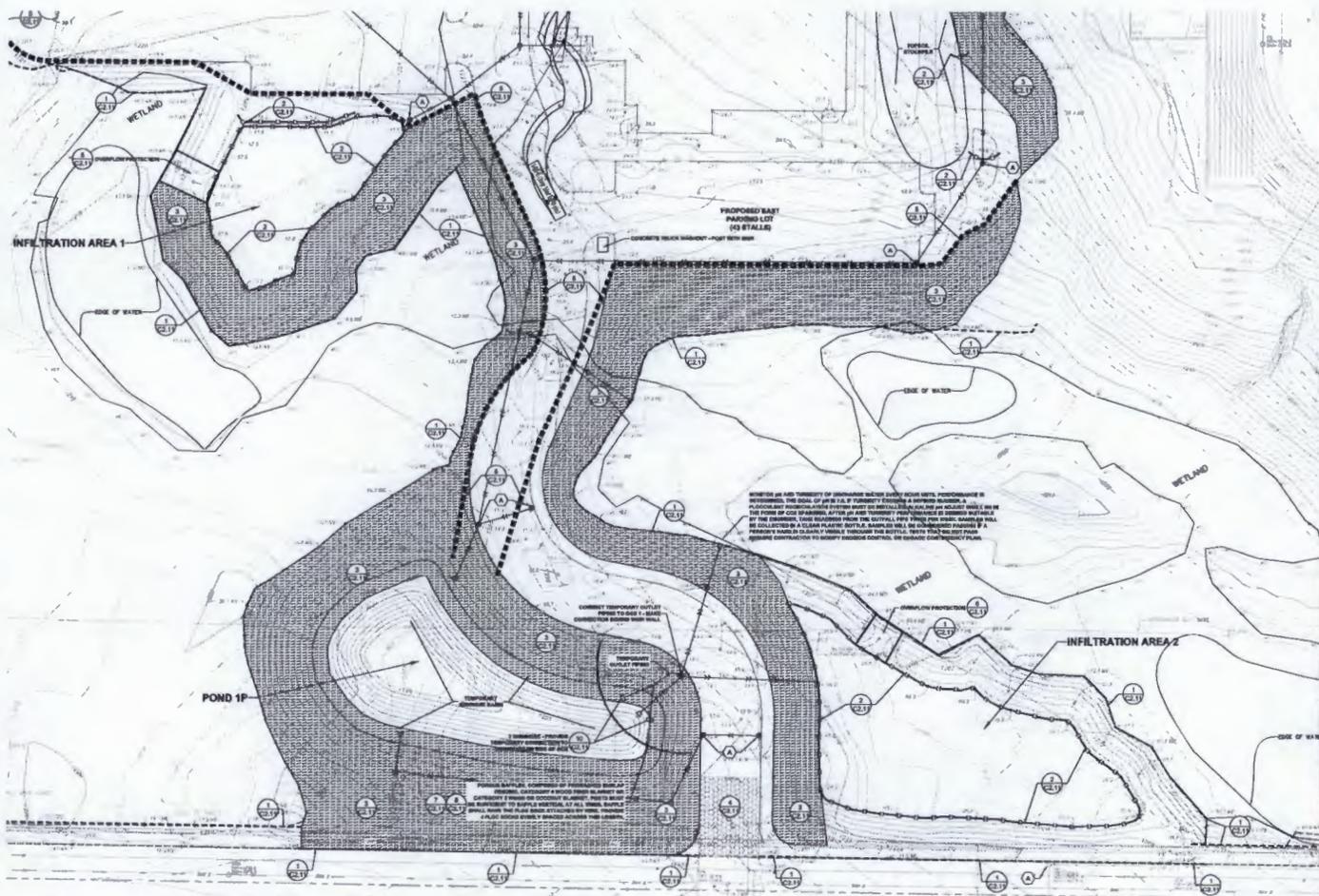
1. **General Construction Erosion**
 - A. **General Construction Erosion**
 1. Erosion Control Plan of site must be submitted.
 2. Erosion Control Plan must be approved by the Engineer.
 3. Erosion Control Plan must be approved by the Engineer.
 4. Erosion Control Plan must be approved by the Engineer.
 5. Erosion Control Plan must be approved by the Engineer.
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 18. Erosion Control Plan must be approved by the Engineer.
 19. Erosion Control Plan must be approved by the Engineer.
 20. Erosion Control Plan must be approved by the Engineer.

NOTES

1. REFER TO SHEET C-1, GRADING AND DRAINAGE PLAN NORTH, FOR GENERAL NOTES.
2. REFER TO SWPPP NARRATIVE SECTION 01.01 FOR CONSTRUCTION SEQUENCES AND EROSION CONTROL REQUIREMENTS.
3. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
4. MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
5. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
6. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ASSOCIATE AND RESULT IN DOMESTIC SEWER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DOMESTIC SEWER SYSTEMS AS NECESSARY, INCLUDING ASSOCIATED RESTROOMS.
7. SEDIMENT CONTROL DEVICES AT STORE SEWER BLENDS, AT THE BLENDS TO ALL STORE SEWER STRUCTURES, SHALL BE PROVIDED FROM THE FOLLOWING LIST, ACCEPTABLE PRODUCTS:
 - A. WOOD TOP BLEED WOODS, INC. (S)
 - B. BIFURCATED SEDIMENT CONTROL BARRIERS, DISTRIBUTED BY ROYAL ENVIRONMENTAL SYSTEMS, INC. (S) SHALL BE USED SPECIFICALLY FOR THE STRUCTURE AND CATCHER SPECIFIED. BARS SHALL BE COATED WITH PFAVE AND PERFORATED BRUSH AND SHALL BE WRAPPED ON THE OUTSIDE, COVERING THE PERFORATED WALL ONLY, WITH A GEOTEXTILE SOIL.
 - C. DANDY BAGS OR DANDY BAG BE DISTRIBUTED BY BROOK WIRE COMPANY, ST. PAUL, MN 55116-8488. DANDY BAGS SHALL BE USED ONLY FOR CURB BLENDS AFTER PAVEMENT (SEWER CURB OR WEAR COURSE) IS INSTALLED OR AT EXISTING PAVED AREAS.
 - D. BIFURCATED DEBRIS COLLECTION DEVICE BY ROYAL ENVIRONMENTAL SYSTEMS, INC. DISTRIBUTED BY BOB BROTHERS, 8300 COUNTY ROAD 10, CONCORDIA, MO 64601 SHALL BE USED SPECIFICALLY FOR THE STRUCTURE AND CATCHER SPECIFIED. PROVIDE FILTER BAGS AND TIES FOR COMPLETE INSTALLATION.
 - E. OR APPROVED EQUAL.

LEGEND

- | | |
|--|---|
| | REFERENCE KEY TO SITE DETAILS |
| | DETAIL LIST NUMBER (TOP) |
| | DETAIL SHEET NUMBER (BOTTOM) |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | PROPOSED SPOT ELEVATION |
| | PROPOSED STRUCTURE |
| | PROPOSED STRUCTURE LIST |
| | PROPOSED MANHOLE (S) |
| | PROPOSED CATCH BASIN (S) |
| | PROPOSED MANHOLE AND CATCH BASIN (S) |
| | PROPOSED FRENCH DRAIN (S) |
| | PROPOSED BLEED DRAIN (S) |
| | PROPOSED SEDIMENT CONTROL DEVICE |
| | PROPOSED ROCK CONSTRUCTION ENTRANCE |
| | PROPOSED TEMPORARY DIVERSION BERM |
| | SEDIMENT CONTROL DEVICE AT STORE SEWER BLDG |
| | PROPOSED BUILDING ELEVATION |
| | PROPERTY LINE |



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COMMISSION NUMBER 2078

2017 CLOQUET NEW MIDDLE SCHOOL BID PACKAGE #1

SEDIMENT AND EROSION CONTROL PLAN SOUTH

Drawn by: MEI
 Checked by: DAR
 Date: 11/20/17
 Revised: 11/20/17
 Scale: 1" = 30'

C1.62



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2017 CLOQUET NEW MIDDLE SCHOOL BID PACKAGE #1

Project File: 2017 CLOQUET NEW MIDDLE SCHOOL BID PACKAGE #1
 Commission Number 2078

Sheet Title: **UTILITY PLAN SOUTH**
 Drawing 6 of 7

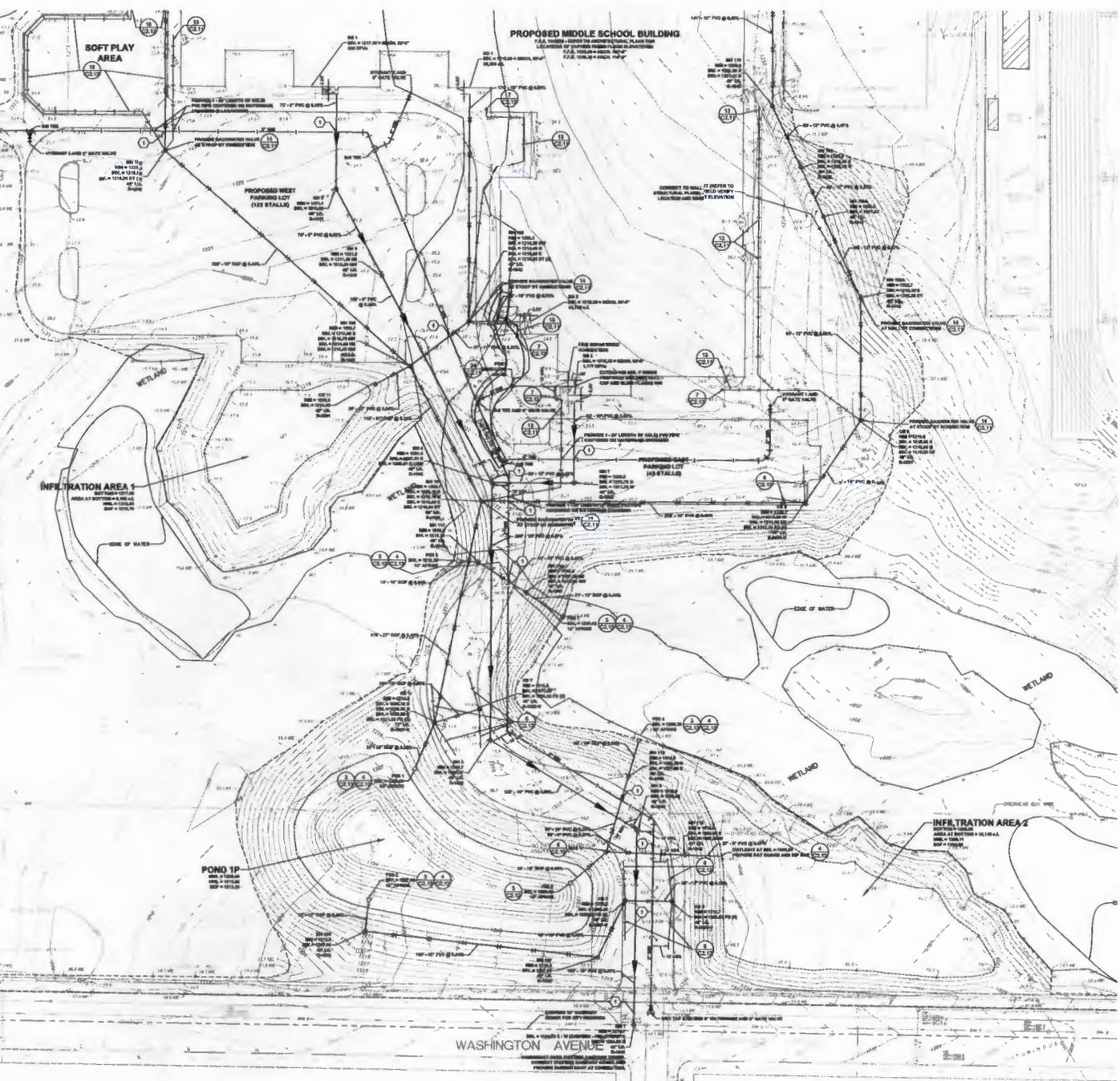
Drawn by MEI
 Checked by DAR
 Date 01/29/2016
 Revised
 Scale 1" = 30'
 Sheet Number
C1.52

NOTES

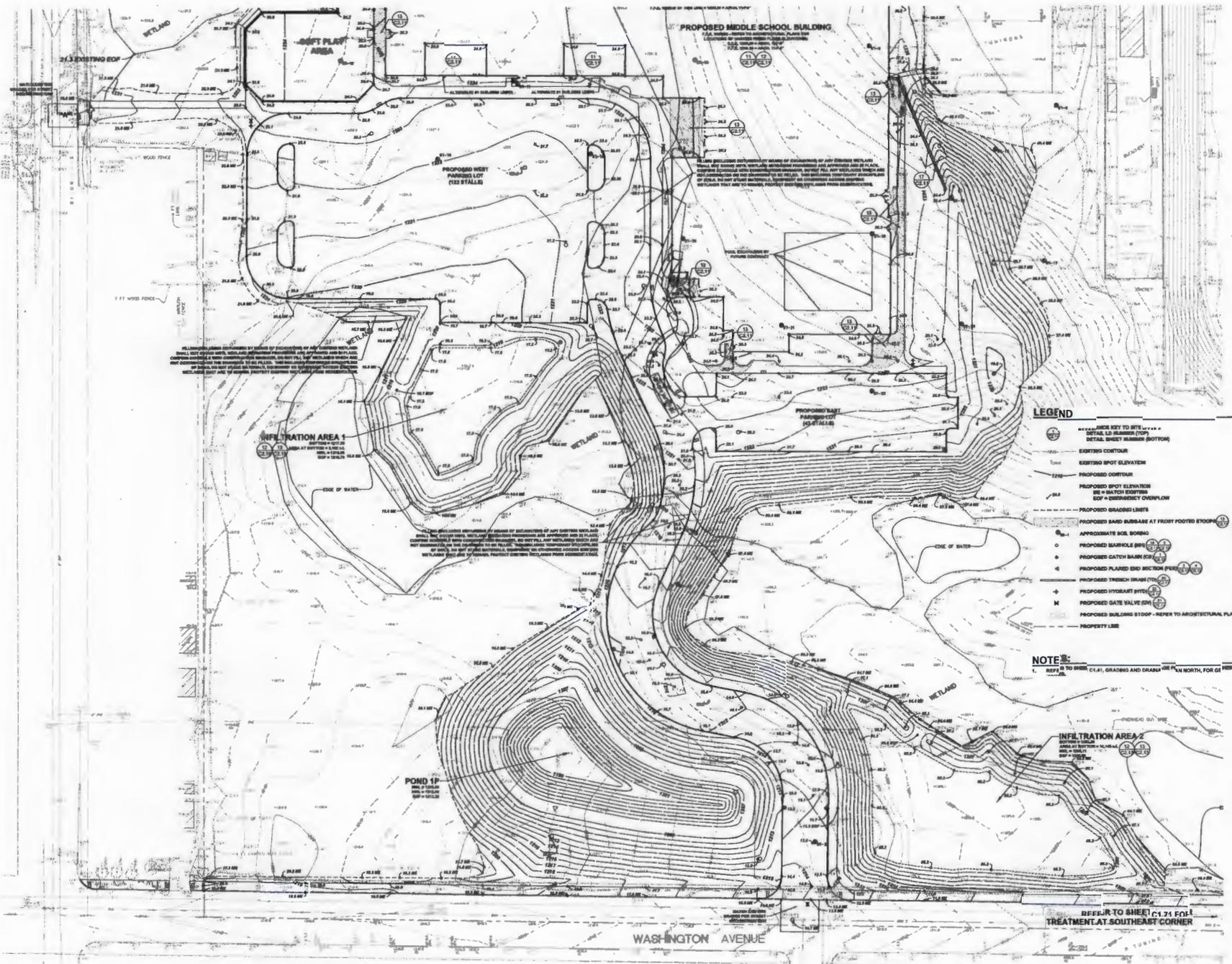
- REFER TO SHEET C1.41, GRADING AND DRAINAGE PLAN NORTH, FOR GENERAL NOTES.
 - ALL WATERMAIN PIPE SHALL BE 8" CPV, CLASS 252. ALL WATERMAIN SHALL HAVE MINIMUM 1" BURRY (TOP OF PIPE TO FINISH GRADE). CPV SHALL BE ENCASED WITH POLYETHYLENE FIBRE COMPOSITE TO ASTM D 3353.
 - ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, 80R 36, UNLESS OTHERWISE NOTED). SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3251.
 - ALL STORM SEWER PIPE SHALL BE RCP, CLASS D (24"), WITH FLEXIBLE WATER-TIGHT JOINTS IN ACCORDANCE WITH ASTM C955 OR PVC PIPE (ASTM D 3034, 80R 36) AS INSTALLED IN ACCORDANCE WITH ASTM D3251, UNLESS OTHERWISE NOTED.
 - IN ACCORDANCE WITH MINNESOTA RULES 61.07 AND 61.07A, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
 - ACCEPTABLE MANUFACTURER PROCEDURES:
 - FIBROCEL "CONCRETE MANHOLE ADAPTOR" OR "LARGE-DIAMETER WATERSTOP"
 - FIBROCEL "MANHOLE ADAPTOR" OR "LARGE-DIAMETER WATERSTOP"
 - OR APPROVED EQUAL.
 - WATERMAIN SHALL BE INSTALLED AT LEAST 18 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINAGE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MIN RULES 61.07A, 61.07B, 61.07C, 61.07D, 61.07E, 61.07F, 61.07G, 61.07H, 61.07I, 61.07J, 61.07K, 61.07L, 61.07M, 61.07N, 61.07O, 61.07P, 61.07Q, 61.07R, 61.07S, 61.07T, 61.07U, 61.07V, 61.07W, 61.07X, 61.07Y, 61.07Z, 61.07AA, 61.07AB, 61.07AC, 61.07AD, 61.07AE, 61.07AF, 61.07AG, 61.07AH, 61.07AI, 61.07AJ, 61.07AK, 61.07AL, 61.07AM, 61.07AN, 61.07AO, 61.07AP, 61.07AQ, 61.07AR, 61.07AS, 61.07AT, 61.07AU, 61.07AV, 61.07AW, 61.07AX, 61.07AY, 61.07AZ, 61.07BA, 61.07BB, 61.07BC, 61.07BD, 61.07BE, 61.07BF, 61.07BG, 61.07BH, 61.07BI, 61.07BJ, 61.07BK, 61.07BL, 61.07BM, 61.07BN, 61.07BO, 61.07BP, 61.07BQ, 61.07BR, 61.07BS, 61.07BT, 61.07BU, 61.07BV, 61.07BW, 61.07BX, 61.07BY, 61.07BZ, 61.07CA, 61.07CB, 61.07CC, 61.07CD, 61.07CE, 61.07CF, 61.07CG, 61.07CH, 61.07CI, 61.07CJ, 61.07CK, 61.07CL, 61.07CM, 61.07CN, 61.07CO, 61.07CP, 61.07CQ, 61.07CR, 61.07CS, 61.07CT, 61.07CU, 61.07CV, 61.07CW, 61.07CX, 61.07CY, 61.07CZ, 61.07DA, 61.07DB, 61.07DC, 61.07DD, 61.07DE, 61.07DF, 61.07DG, 61.07DH, 61.07DI, 61.07DJ, 61.07DK, 61.07DL, 61.07DM, 61.07DN, 61.07DO, 61.07DP, 61.07DQ, 61.07DR, 61.07DS, 61.07DT, 61.07DU, 61.07DV, 61.07DW, 61.07DX, 61.07DY, 61.07DZ, 61.07EA, 61.07EB, 61.07EC, 61.07ED, 61.07EE, 61.07EF, 61.07EG, 61.07EH, 61.07EI, 61.07EJ, 61.07EK, 61.07EL, 61.07EM, 61.07EN, 61.07EO, 61.07EP, 61.07EQ, 61.07ER, 61.07ES, 61.07ET, 61.07EU, 61.07EV, 61.07EW, 61.07EX, 61.07EY, 61.07EZ, 61.07FA, 61.07FB, 61.07FC, 61.07FD, 61.07FE, 61.07FF, 61.07FG, 61.07FH, 61.07FI, 61.07FJ, 61.07FK, 61.07FL, 61.07FM, 61.07FN, 61.07FO, 61.07FP, 61.07FQ, 61.07FR, 61.07FS, 61.07FT, 61.07FU, 61.07FV, 61.07FW, 61.07FX, 61.07FY, 61.07FZ, 61.07GA, 61.07GB, 61.07GC, 61.07GD, 61.07GE, 61.07GF, 61.07GG, 61.07GH, 61.07GI, 61.07GJ, 61.07GK, 61.07GL, 61.07GM, 61.07GN, 61.07GO, 61.07GP, 61.07GQ, 61.07GR, 61.07GS, 61.07GT, 61.07GU, 61.07GV, 61.07GW, 61.07GX, 61.07GY, 61.07GZ, 61.07HA, 61.07HB, 61.07HC, 61.07HD, 61.07HE, 61.07HF, 61.07HG, 61.07HH, 61.07HI, 61.07HJ, 61.07HK, 61.07HL, 61.07HM, 61.07HN, 61.07HO, 61.07HP, 61.07HQ, 61.07HR, 61.07HS, 61.07HT, 61.07HU, 61.07HV, 61.07HW, 61.07HX, 61.07HY, 61.07HZ, 61.07IA, 61.07IB, 61.07IC, 61.07ID, 61.07IE, 61.07IF, 61.07IG, 61.07IH, 61.07II, 61.07IJ, 61.07IK, 61.07IL, 61.07IM, 61.07IN, 61.07IO, 61.07IP, 61.07IQ, 61.07IR, 61.07IS, 61.07IT, 61.07IU, 61.07IV, 61.07IW, 61.07IX, 61.07IY, 61.07IZ, 61.07JA, 61.07JB, 61.07JC, 61.07JD, 61.07JE, 61.07JF, 61.07JG, 61.07JH, 61.07JI, 61.07JJ, 61.07JK, 61.07JL, 61.07JM, 61.07JN, 61.07JO, 61.07JP, 61.07JQ, 61.07JR, 61.07JS, 61.07JT, 61.07JU, 61.07JV, 61.07JW, 61.07JX, 61.07JY, 61.07JZ, 61.07KA, 61.07KB, 61.07KC, 61.07KD, 61.07KE, 61.07KF, 61.07KG, 61.07KH, 61.07KI, 61.07KJ, 61.07KL, 61.07KM, 61.07KN, 61.07KO, 61.07KP, 61.07KQ, 61.07KR, 61.07KS, 61.07KT, 61.07KU, 61.07KV, 61.07KW, 61.07KX, 61.07KY, 61.07KZ, 61.07LA, 61.07LB, 61.07LC, 61.07LD, 61.07LE, 61.07LF, 61.07LG, 61.07LH, 61.07LI, 61.07LJ, 61.07LK, 61.07LL, 61.07LM, 61.07LN, 61.07LO, 61.07LP, 61.07LQ, 61.07LR, 61.07LS, 61.07LT, 61.07LU, 61.07LV, 61.07LW, 61.07LX, 61.07LY, 61.07LZ, 61.07MA, 61.07MB, 61.07MC, 61.07MD, 61.07ME, 61.07MF, 61.07MG, 61.07MH, 61.07MI, 61.07MJ, 61.07MK, 61.07ML, 61.07MM, 61.07MN, 61.07MO, 61.07MP, 61.07MQ, 61.07MR, 61.07MS, 61.07MT, 61.07MU, 61.07MV, 61.07MW, 61.07MX, 61.07MY, 61.07MZ, 61.07NA, 61.07NB, 61.07NC, 61.07ND, 61.07NE, 61.07NF, 61.07NG, 61.07NH, 61.07NI, 61.07NJ, 61.07NK, 61.07NL, 61.07NM, 61.07NN, 61.07NO, 61.07NP, 61.07NQ, 61.07NR, 61.07NS, 61.07NT, 61.07NU, 61.07NV, 61.07NW, 61.07NX, 61.07NY, 61.07NZ, 61.07OA, 61.07OB, 61.07OC, 61.07OD, 61.07OE, 61.07OF, 61.07OG, 61.07OH, 61.07OI, 61.07OJ, 61.07OK, 61.07OL, 61.07OM, 61.07ON, 61.07OO, 61.07OP, 61.07OQ, 61.07OR, 61.07OS, 61.07OT, 61.07OU, 61.07OV, 61.07OW, 61.07OX, 61.07OY, 61.07OZ, 61.07PA, 61.07PB, 61.07PC, 61.07PD, 61.07PE, 61.07PF, 61.07PG, 61.07PH, 61.07PI, 61.07PJ, 61.07PK, 61.07PL, 61.07PM, 61.07PN, 61.07PO, 61.07PP, 61.07PQ, 61.07PR, 61.07PS, 61.07PT, 61.07PU, 61.07PV, 61.07PW, 61.07PX, 61.07PY, 61.07PZ, 61.07QA, 61.07QB, 61.07QC, 61.07QD, 61.07QE, 61.07QF, 61.07QG, 61.07QH, 61.07QI, 61.07QJ, 61.07QK, 61.07QL, 61.07QM, 61.07QN, 61.07QO, 61.07QP, 61.07QQ, 61.07QR, 61.07QS, 61.07QT, 61.07QU, 61.07QV, 61.07QW, 61.07QX, 61.07QY, 61.07QZ, 61.07RA, 61.07RB, 61.07RC, 61.07RD, 61.07RE, 61.07RF, 61.07RG, 61.07RH, 61.07RI, 61.07RJ, 61.07RK, 61.07RL, 61.07RM, 61.07RN, 61.07RO, 61.07RP, 61.07RQ, 61.07RR, 61.07RS, 61.07RT, 61.07RU, 61.07RV, 61.07RW, 61.07RX, 61.07RY, 61.07RZ, 61.07SA, 61.07SB, 61.07SC, 61.07SD, 61.07SE, 61.07SF, 61.07SG, 61.07SH, 61.07SI, 61.07SJ, 61.07SK, 61.07SL, 61.07SM, 61.07SN, 61.07SO, 61.07SP, 61.07SQ, 61.07SR, 61.07SS, 61.07ST, 61.07SU, 61.07SV, 61.07SW, 61.07SX, 61.07SY, 61.07SZ, 61.07TA, 61.07TB, 61.07TC, 61.07TD, 61.07TE, 61.07TF, 61.07TG, 61.07TH, 61.07TI, 61.07TJ, 61.07TK, 61.07TL, 61.07TM, 61.07TN, 61.07TO, 61.07TP, 61.07TQ, 61.07TR, 61.07TS, 61.07TT, 61.07TU, 61.07TV, 61.07TW, 61.07TX, 61.07TY, 61.07TZ, 61.07UA, 61.07UB, 61.07UC, 61.07UD, 61.07UE, 61.07UF, 61.07UG, 61.07UH, 61.07UI, 61.07UJ, 61.07UK, 61.07UL, 61.07UM, 61.07UN, 61.07UO, 61.07UP, 61.07UQ, 61.07UR, 61.07US, 61.07UT, 61.07UU, 61.07UV, 61.07UW, 61.07UX, 61.07UY, 61.07UZ, 61.07VA, 61.07VB, 61.07VC, 61.07VD, 61.07VE, 61.07VF, 61.07VG, 61.07VH, 61.07VI, 61.07VJ, 61.07VK, 61.07VL, 61.07VM, 61.07VN, 61.07VO, 61.07VP, 61.07VQ, 61.07VR, 61.07VS, 61.07VT, 61.07VU, 61.07VV, 61.07VW, 61.07VX, 61.07VY, 61.07VZ, 61.07WA, 61.07WB, 61.07WC, 61.07WD, 61.07WE, 61.07WF, 61.07WG, 61.07WH, 61.07WI, 61.07WJ, 61.07WK, 61.07WL, 61.07WM, 61.07WN, 61.07WO, 61.07WP, 61.07WQ, 61.07WR, 61.07WS, 61.07WT, 61.07WU, 61.07WV, 61.07WW, 61.07WX, 61.07WY, 61.07WZ, 61.07XA, 61.07XB, 61.07XC, 61.07XD, 61.07XE, 61.07XF, 61.07XG, 61.07XH, 61.07XI, 61.07XJ, 61.07XK, 61.07XL, 61.07XM, 61.07XN, 61.07XO, 61.07XP, 61.07XQ, 61.07XR, 61.07XS, 61.07XT, 61.07XU, 61.07XV, 61.07XW, 61.07XX, 61.07XY, 61.07XZ, 61.07YA, 61.07YB, 61.07YC, 61.07YD, 61.07YE, 61.07YF, 61.07YG, 61.07YH, 61.07YI, 61.07YJ, 61.07YK, 61.07YL, 61.07YM, 61.07YN, 61.07YO, 61.07YP, 61.07YQ, 61.07YR, 61.07YS, 61.07YT, 61.07YU, 61.07YV, 61.07YW, 61.07YX, 61.07YY, 61.07YZ, 61.07ZA, 61.07ZB, 61.07ZC, 61.07ZD, 61.07ZE, 61.07ZF, 61.07ZG, 61.07ZH, 61.07ZI, 61.07ZJ, 61.07ZK, 61.07ZL, 61.07ZM, 61.07ZN, 61.07ZO, 61.07ZP, 61.07ZQ, 61.07ZR, 61.07ZS, 61.07ZT, 61.07ZU, 61.07ZV, 61.07ZW, 61.07ZX, 61.07ZY, 61.07ZZ.
- LOCATE ALL EXISTING UTILITIES, VERIFY LOCATIONS, SIZE AND DEPTHS OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZE AND DEPTHS OF BARRIERS BEGINNING CONSTRUCTION.
- BEFORE TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAINS), VERIFY ALL PROPOSED BUILDING UTILITY SERVICES PIPE DEES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND COMPLETION WITH MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL STAKE LIMITS OF WALLS AND CURBS PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVES AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALLS AND CURBS AND GUTTERS. CURBS AND GUTTER SHALL BE BUILT TO ALLOW CURB BUILT TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBS.

LEGEND

- REFERENCE KEY TO BIVE DETAILS
 DETAIL ID NUMBER (TOP)
 DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- SE - MATCH EXISTING
 SDF - EXISTING OVERFLOW
- PROPOSED GRADING LIMITS
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED DRAINAGE / FINISH DRAIN
- PROPOSED MANHOLE (8")
- PROPOSED CATCH BASIN (8")
- PROPOSED PLASSED (8")
- PROPOSED TRICH DRAIN (8")
- PROPOSED HYDRAULIC STOP
- PROPOSED GATE VALVE (8")
- PROPOSED POST INVERTER VALVE (8")
- PROPOSED MINIMUM 4" VERTICAL SEPARATION AT CROSSING. PROVIDE VERTICAL BENDS IN WATERMAINS AS REQUIRED TO ACCOMPLISH
- PROPOSED BUILDING STOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE



WASHINGTON AVENUE



PROPOSED MIDDLE SCHOOL BUILDING
 7.5.1. REFER TO ARCHITECTURAL PLANS FOR
 CONSTRUCTION AND FINISHES.
 SEE GENERAL NOTES 10-11

PROPOSED WEST PARKING LOT (132 STALLS)

PROPOSED EAST PARKING LOT (52 STALLS)

INFLTRATION AREA 1
 10.1.1. REFER TO SHEET C1.41 FOR
 AREA AT WEST END OF LOT
 SEE GENERAL NOTES 10-11

LEGEND

- PROPOSED KEY TO SITE OR ○
 DETAIL ID NUMBER (TOP)
 DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
 OR = MATCH EXISTING
 OR = EMERGENCY OVERTFLOW
- PROPOSED GRADING LIMITS
- PROPOSED SAND BARBERS AT FREE FOOTED STUOP
- APPROXIMATE SOIL BOUND
- PROPOSED BARRI-HOLE BSH
- PROPOSED CATCH BASIN CB
- PROPOSED PLACED END SECTION PER
- PROPOSED TRENCH BRAM (TB)
- PROPOSED HYDRANT BYTE
- PROPOSED GATE VALVE EDV
- PROPOSED BUILDING STUOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE

NOTE

1. REFER TO SHEET C1.41, GRADING AND DRAINAGE FOR NORTH FOR G1 PERAL

INFLTRATION AREA 2
 10.1.2. REFER TO SHEET C1.41 FOR
 AREA AT EAST END OF LOT
 SEE GENERAL NOTES 10-11

POND 1P
 10.1.3. REFER TO SHEET C1.41 FOR
 AREA AT WEST END OF LOT
 SEE GENERAL NOTES 10-11

REFER TO SHEET C1.41 FOR
 TREATMENT AT SOUTHEAST CORNER

WASHINGTON AVENUE



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 ARCHITECTS • ENGINEERS • PLANNERS • INTERIORS

Project Title
2017 CLOQUET NEW MIDDLE SCHOOL - BID PACKAGE #1

Commission Number: 2078

Sheet Title
GRADING AND DRAINAGE PLAN SOUTH

2016-08-26-ARC
 Drawing 2 of 7

Drawn by MET
 Checked by DAA
 Date 08/26/16
 Revised
 Scale 1" = 30'



Sheet Number
C1.42