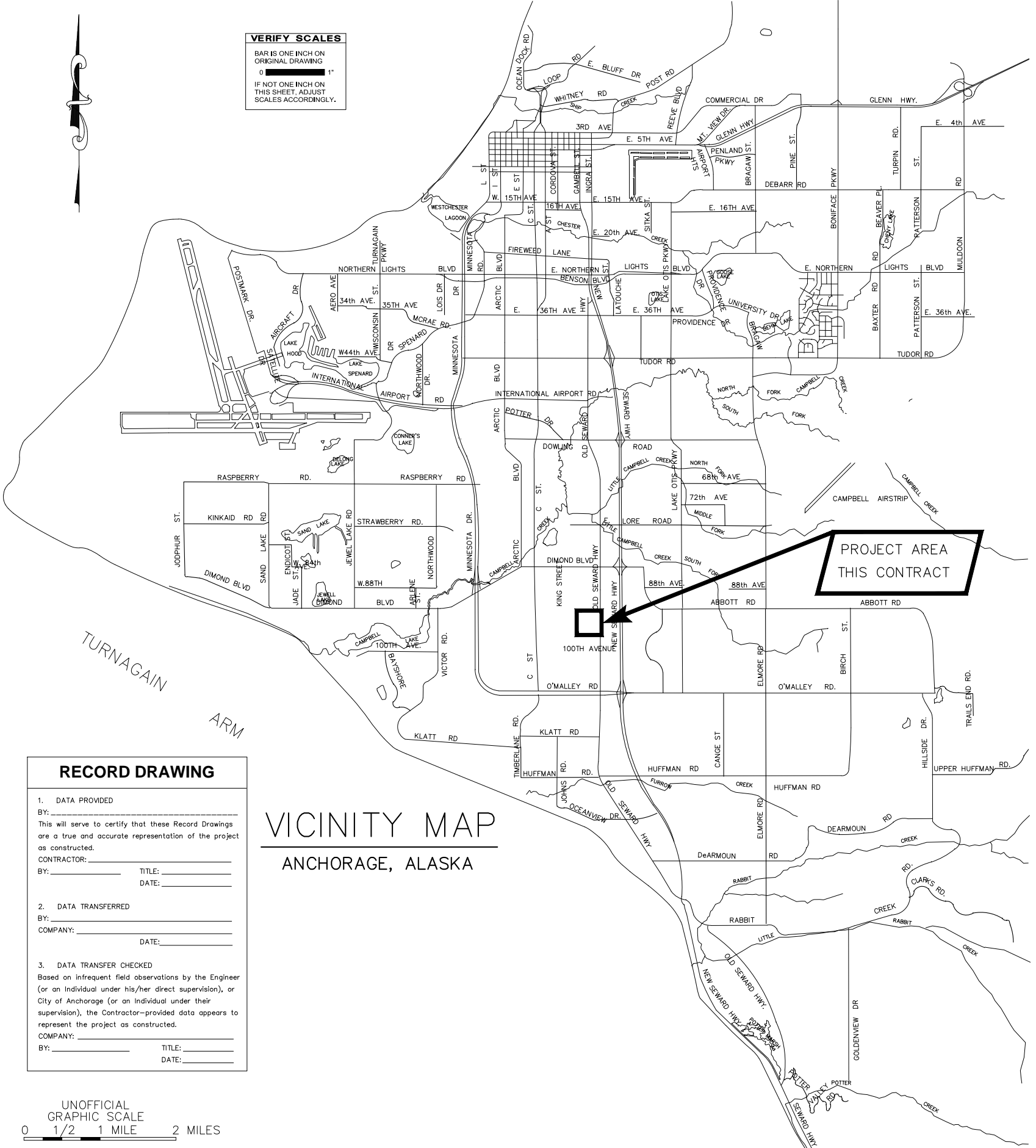




VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**MUNICIPALITY OF ANCHORAGE
 WATER AND WASTEWATER UTILITY**

**KING STREET CAMPUS EXPANSION
 SITE IMPROVEMENTS
 &
 E. 94TH AVENUE IMPROVEMENTS**

**AWWU PROJECT ID. NO. WW.00007 (WTR)
 MAY 2020**

**95% DRAFT
 PERMIT SET**

RECORD DRAWING

1. DATA PROVIDED
 BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED
 BY: _____
 COMPANY: _____ DATE: _____

3. DATA TRANSFER CHECKED
 Based on infrequent field observations by the Engineer (or an individual under his/her direct supervision), or City of Anchorage (or an individual under their supervision), the Contractor-provided data appears to represent the project as constructed.
 COMPANY: _____ TITLE: _____
 BY: _____ DATE: _____

**VICINITY MAP
 ANCHORAGE, ALASKA**

UNOFFICIAL GRAPHIC SCALE
 0 1/2 1 MILE 2 MILES

PTS
 PROFESSIONAL & TECHNICAL SERVICES, INC.
 CONSULTING • ENGINEERING • SURVEYING
 912 EAST 15TH AVE, SUITE 200
 ANCHORAGE, ALASKA 99501
 PHONE: (907) 561-6237
 FAX: (907) 563-3813
 LICENSE # AECC924

AWWU PLAN SET NO. XXXX
 KING STREET CAMPUS EXPANSION
 PROJECT ID NO. WW.00007
 INVITATION TO BID NO. AWWU XX-X-XX



PERMIT SET SHEETS	
No.	SHEET NAME
G1	PERMIT SET COVER
G2	PERMIT SET SHEET INDEX
G3	PERMIT SET NOTES & LEGEND
G4	PERMIT SET HAUL ROUTE
G5	PERMIT SET SITE IMPROVEMENTS EXISTING CONDITIONS & CLEARING
G6	PERMIT SET SITE IMPROVEMENT STOCKPILE AREA FILL SEQUENCING

ELECTRICAL	
No.	SHEET NAME
E1	LEGEND, ABBREVIATION, AND GENERAL ELECTRICAL NOTES
E2	SITE PLAN, ILLUMINATION SCHEDULES
E3	GATE ELECTRICAL PLAN
E4	PRV ELECTRICAL PLAN
E5	POWER ONE-LINE AND SCHEDULE
E6	NETWORK ARCHITECTURE
E7	GATE CONTROLLER SUPPORT BOX
E8	DETAILS

SUPPORTIVE DOCUMENTATION	
No.	DOCUMENTATION
SD1	Cover Letter
SD2	AG.09 - Clearing and Grading Permit Response
SD3	AG.21 - Stormwater Treatment Plan Review Response
SD4	Stormwater Management Plan & Drainage Report
SD5	AG.22 - Right-of-Way Reviews/Permits
SD6	E.01 Electrical Permits Response
SD7	Geotechnical Reports
SD8	Letter of Intent from AWWU to Purchase from CEA
SD9	Wetlands Determination
SD10	Statement of the Intended Purpose of the Fill/Excavation
SD11	Invocation for Reduction in Parking

Note:
The responses to Handouts AG.09 and AG.22 have been provided to aid in the review process because they help answer critical questions for review.

SITE IMPROVEMENTS	
No.	SHEET NAME
C1	COVER - KING STREET CAMPUS EXPANSION SITE IMPROVEMENTS
C2	NOTES, LEGEND, & SHEET INDEX
C3	KEY MAPS
C4	SURVEY CONTROL
C5	TEMPORARY CONSTRUCTION PERMIT INDEX
C6	SITE LAYOUT
C7	TYPICAL SECTIONS I
C8	SITE GRADING PLAN I
C9	SITE GRADING PLAN II
C10	CROSS SECTIONS
C11	SITE GRADING PLAN DETAILS
C12	CANTILEVER GATE DETAILS

LANDSCAPE	
No.	SHEET NAME
L1	LANDSCAPE SCHEDULE AND NOTES (PROJECT OVERVIEW)
L2	LANDSCAPE PLAN (SITE IMPROVEMENTS)
L3	LANDSCAPE PLAN (SITE IMPROVEMENTS)
L4	LANDSCAPE PLAN (CUL-DE-SAC)
L5	LANDSCAPE DETAILS

E. 94TH AVENUE IMPROVEMENTS	
No.	SHEET NAME
C13	COVER - E. 94TH AVENUE IMPROVEMENTS
C14	NOTES, LEGEND, & SHEET INDEX
C15	KEY MAPS
C16	SURVEY CONTROL
C17	TEMPORARY CONSTRUCTION PERMIT INDEX
C18	TYPICAL SECTIONS I
C19	TYPICAL SECTIONS II
C20	PIPE DETAILS
C21	DEMOLITION
C22	ROAD PLAN AND PROFILE
C23	CUL-DE-SAC GRADING PLAN
C24	CROSS SECTIONS
C25	WATER PLAN AND PROFILE
C26	TRAFFIC CONTROL / PHASING DIAGRAM
C27	ILLUMINATION PLAN

2019/10/02 2:08 PM By: Jonathan Petrunak\KS-03.dwg Active\Permit Set\00007 King Street Grading Plan_Permit Set.dwg

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

RECORD DRAWING		Note: To be filled out on original drawings upon project completion.	
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CONTRACTOR:	_____	COMPANY: _____	_____
BY: _____	TITLE: _____	DATE: _____	_____
2. DATA TRANSFERRED BY: _____		DATE: _____	
COMPANY: _____	_____	DATE: _____	

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
KING STREET CAMPUS EXPANSION PERMIT SET			
PERMIT SET SHEET INDEX			
HORIZ SCALE: NA	DATE: 05/2020	GRID: SW2431	SHEET G2 of G6
VERT SCALE: NA	PROJ. ID.: 00007		

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE-UTILITIES-PARKS (MASS), THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL, AND THE SPECIAL PROVISIONS.
2. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES.
3. MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES).

GENERAL SURVEY NOTES:

- 1. THE FIELD SURVEY WAS PERFORMED BY PROFESSIONAL AND TECHNICAL SERVICES INC.(PTS) FROM OCTOBER 10 TO SEPTEMBER 16, 2018, AND DECEMBER 10, 2019. FIELD SURVEY INFORMATION FOR THIS PROJECT IS LOCATED IN PTS FIELD BOOK 18-102, PAGES 5 THROUGH 18.
2. CONTOUR INTERVAL = 2 FOOT.
3. MANHOLE LOCATIONS ARE SHOWN TO APPROXIMATE CENTER OF STRUCTURE.

WATER NOTES

- 1. AWWU, AFD AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL WATER MAINS SHALL BE C900 PVC DR-18 RJIB PIPE.
3. ALL BENDS, TEES, FIRE HYDRANTS AND DEAD-ENDS SHALL HAVE RESTRAINED FITTINGS.

CLEARING NOTES:

- 1. CLEARING LIMITS TO BE MARKED WITH FLAGGING AND/OR LATH, AND BE ACCEPTED BY THE OWNER PRIOR TO COMMENCING CLEARING.
2. ALL CLEARING ACTIONS AND METHODS SHALL CONFORM TO THE REQUIREMENTS DISCUSSED IN MASS, SECTION 20.04 - CLEARING AND GRUBBING, SECTION 20.05 - CLEARING, AND SECTION 20.06 - REMOVAL OF TREES.

ABBREVIATIONS

- AC - ASBESTOS CEMENT
A.C. - ASPHALT CONCRETE
AD - ALGEBRAIC DIFFERENCE
AFD - ANCHORAGE FIRE DEPARTMENT
AWWU-ANCHORAGE WATER & WASTEWATER
BOH - BOTTOM OF HOLE
BOP - BOTTOM OF PIPE
BV - BUTTERFLY VALVE
BVCE- BEGIN VERTICAL CURVE - ELEVATION

LEGEND - PROFILE

Table with 2 columns: EXISTING, PROPOSED, DESCRIPTION. Includes symbols for CENTERLINE GRADE, LEFT PROPERTY LINE GRADE, RIGHT PROPERTY LINE GRADE, INSULATION, PIPE REMOVAL, WATER LEVEL, UTILITY MAIN, and STORM DRAIN/SEWER MANHOLE.

CALL BEFORE YOU DIG !

Table with 2 columns: Provider, Phone Number. Includes Alaska Digline, Inc. (811), AFSC/ASIG (243-4322), Chevron (258-2301), Alaska Railroad (265-2520), Military Fuel Lines (552-5342), and State Storm Drains (333-2411).



LEGEND - PLAN

Table with 2 columns: EXISTING, PROPOSED, DESCRIPTION. Includes symbols for PROPERTY LINE, EASEMENT, CENTERLINE, CURB & GUTTER, EDGE OF PAVEMENT, WATER MAIN, SEWER MAIN, STORM DRAIN MAIN, OVERHEAD ELECTRIC, OVERHEAD TELEPHONE, UNDERGROUND ELECTRIC, UNDERGROUND CABLE, UNDERGROUND FIBER OPTIC, UNDERGROUND NATURAL GAS, FENCE, CHAINLINK FENCE, DRAINAGE ARROW, ELECTRICAL HAND HOLE, TELEPHONE HAND HOLE, ELECTRICAL VAULT, ELECTRICAL METER, UNDERGROUND ELECTRICAL PEDESTAL, UNDERGROUND TELEPHONE PEDESTAL, GAS METER, JUNCTION BOX, GAS VALVE, MAILBOX, STREET SIGN, IRON PIN OR REBAR, SECTION CORNER/SURVEY MONUMENT, LIGHT POLE, WATER KEYBOX, WATER VALVE, WATER END CAP / THRUST BLOCK, FIRE HYDRANT, SEWER MANHOLE, SEWER SERVICE, SEWER PLUG, CLEANOUT, STORM DRAIN MANHOLE, STORM DRAIN CATCH BASIN, STORM DRAIN CATCH BASIN MANHOLE, STORM DRAIN SERVICE, CONIFEROUS TREE, DECIDUOUS TREE, BOULDER, RETURN RADIUS, REMOVE EXISTING PAVEMENT, RAP SURFACE, TEST BORING OR TEST HOLE.

SOIL ABBREVIATIONS

- GW - WELL GRADED GRAVEL
GP - POORLY GRADED GRAVEL
GM - SILTY GRAVEL
GC - CLAYEY GRAVEL
SW - WELL GRADED SAND
SP - POORLY GRADED SAND
SM - SILTY SAND
SC - CLAYEY SAND
ML - INORGANIC SILT
CL - INORGANIC CLAY
OL - ORGANIC SILT
MH - INORGANIC SILT
CH - INORGANIC CLAY
OH - ORGANIC CLAY
PT - PEAT

Table: SITE DEVELOPMENT. Columns: ITEM, UNIT, QTY. Rows: CLEARING (SF, 182,000), UNUSABLE EXCAVATION (CY, 1,750), CLASSIFIED FILL (TON, 27,950).

Table: CUL-DE-SAC DEVELOPMENT (FUTURE ROW/94TH AVE.). Columns: ITEM, UNIT, QTY. Rows: CLEARING & GRUBBING (SF, 18,500), USABLE EXCAVATION (CY, 2,500), UNUSABLE EXCAVATION (CY, 4,180), CLASSIFIED FILL (TON, 5,700).

Table: 94TH AVE. ROADWAY IMPROVEMENTS. Columns: ITEM, UNIT, QTY. Rows: CLEARING & GRUBBING (SF), USABLE EXCAVATION (CY, 4,050), UNUSABLE EXCAVATION (CY, 1,795), CLASSIFIED FILL (TON, 7,200).

RECORD DRAWING

- 1. DATA PROVIDED BY:
2. DATA TRANSFERRED BY:
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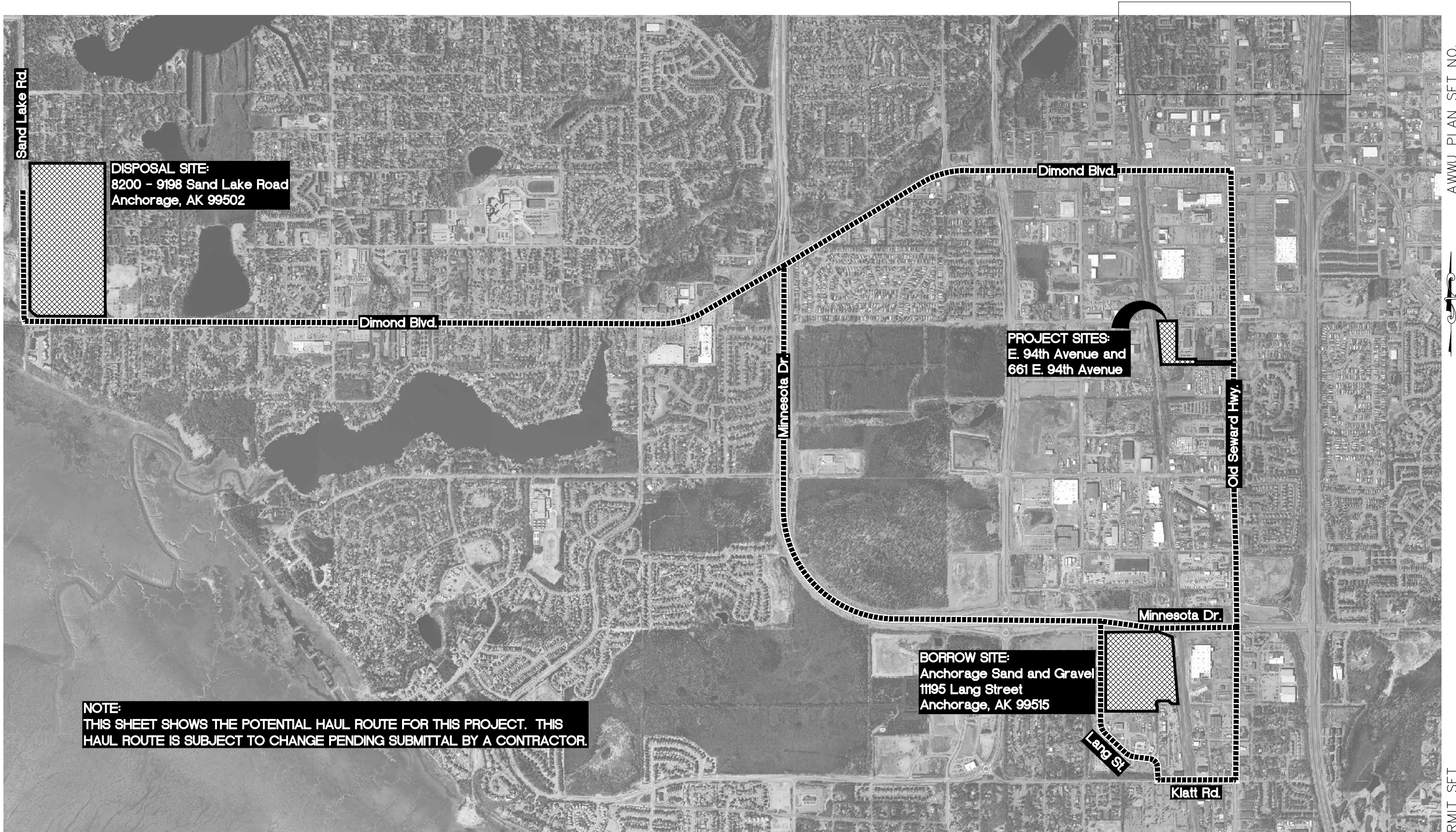
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION PERMIT SET

NOTES AND LEGEND

Table with 4 columns: Scale, Date, Grid, Sheet. Includes: HORIZ SCALE, VERT SCALE, DATE: 05/2020, GRID: SW2431, SHEET G3 of G6.

2019/10/02 2:08 PM By: Jonathan Petrunak\KS-03.dwg Active\Permit Set\00007 King Street Grading Plan_Permit Set.dwg



AWWU PLAN SET NO.

PERMIT SET

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MIN. FINAL CHECK						
PLAN CHECK									REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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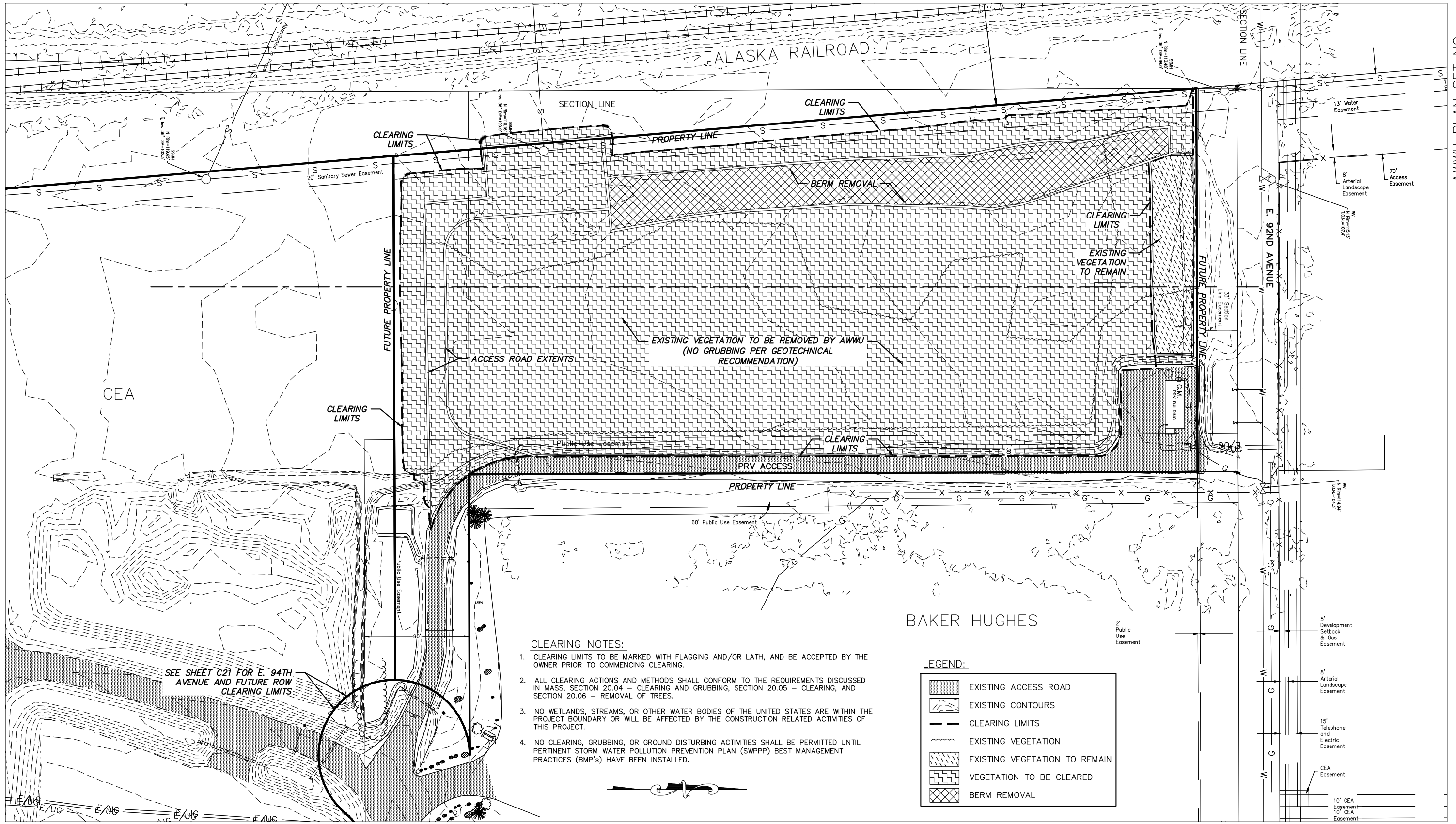


**MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY**

KING STREET CAMPUS EXPANSION
 PERMIT SET
HAUL ROUTE

HORIZ SCALE: 1" = 800'-0"	DATE: 05/2020	GRID: SW2431	SHEET G4 of G6
VERT SCALE: NA	PROJ. ID.: 00007		

2019/10/02 2:08 PM By: Jonathan Petrunak\NS-03.dwg Active\Permit Set\00007 King Street Grading Plan_Permit Set_95%.dwg



CLEARING NOTES:

1. CLEARING LIMITS TO BE MARKED WITH FLAGGING AND/OR LATH, AND BE ACCEPTED BY THE OWNER PRIOR TO COMMENCING CLEARING.
2. ALL CLEARING ACTIONS AND METHODS SHALL CONFORM TO THE REQUIREMENTS DISCUSSED IN MASS, SECTION 20.04 - CLEARING AND GRUBBING, SECTION 20.05 - CLEARING, AND SECTION 20.06 - REMOVAL OF TREES.
3. NO WETLANDS, STREAMS, OR OTHER WATER BODIES OF THE UNITED STATES ARE WITHIN THE PROJECT BOUNDARY OR WILL BE AFFECTED BY THE CONSTRUCTION RELATED ACTIVITIES OF THIS PROJECT.
4. NO CLEARING, GRUBBING, OR GROUND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL PERTINENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BEST MANAGEMENT PRACTICES (BMP'S) HAVE BEEN INSTALLED.

LEGEND:

	EXISTING ACCESS ROAD
	EXISTING CONTOURS
	CLEARING LIMITS
	EXISTING VEGETATION
	EXISTING VEGETATION TO REMAIN
	VEGETATION TO BE CLEARED
	BERM REMOVAL

SEE SHEET C21 FOR E. 94TH AVENUE AND FUTURE ROW CLEARING LIMITS

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	DATE
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

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BY: _____ TITLE: _____		DATE: _____	
DATE: _____		2. DATA TRANSFERRED BY:	
		COMPANY:	
		DATE: _____	

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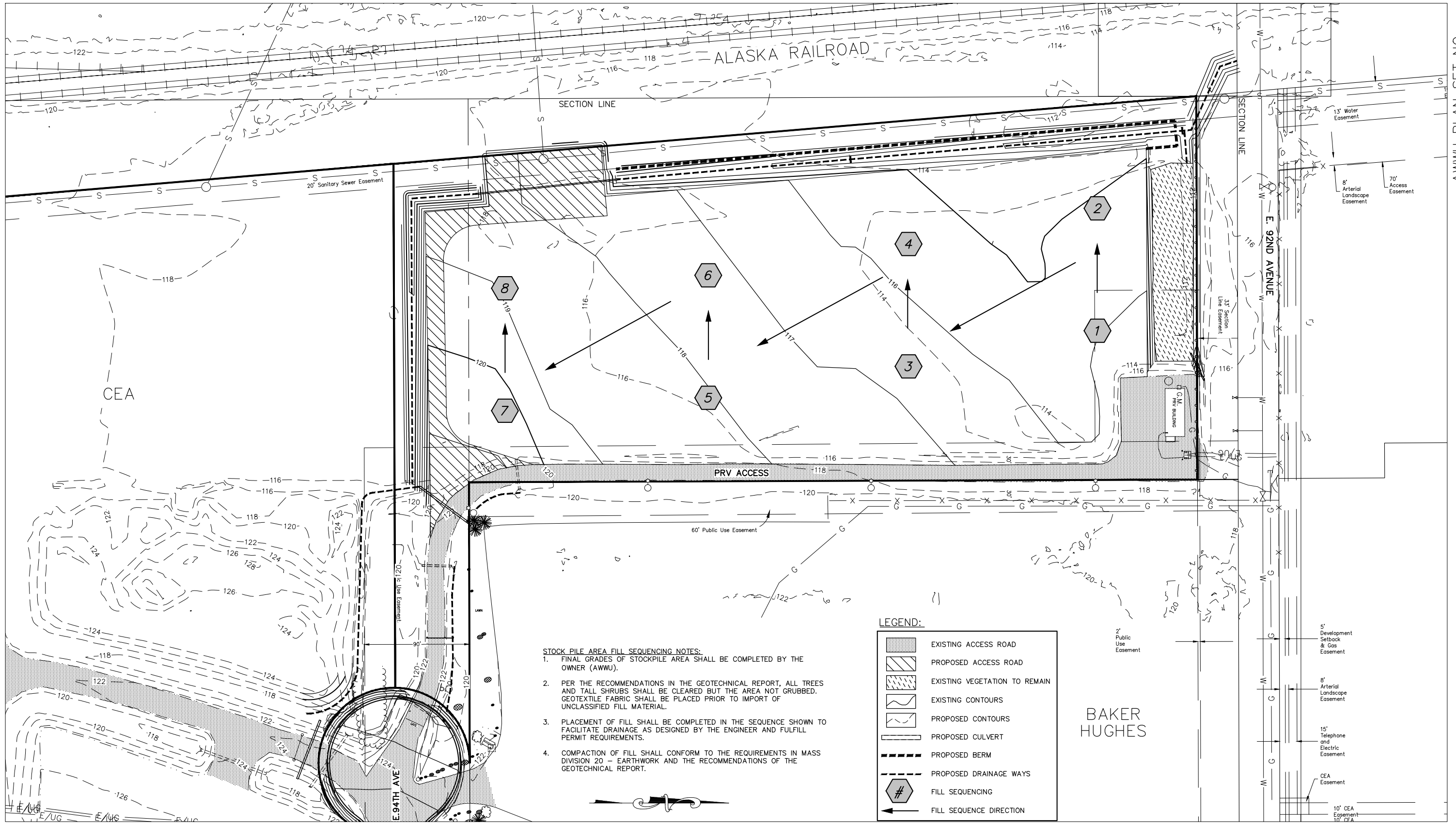
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
KING STREET CAMPUS EXPANSION PERMIT SET			
EXISTING CONDITIONS & CLEARING SITE IMPROVEMENTS			
HORIZ SCALE: 1"=40'	DATE: 05/2020	GRID: SW2431	SHEET G5 of G6
VERT SCALE: NA	PROJ. ID.: 00007		

AWWU PLAN SET NO.

2019/10/02 2:08 PM By: Jonathan Petrunik\KS-03.dwg Active\Permit Set\00007 King Street Fill Sequencing_Permit Set 95%.dwg



- STOCK PILE AREA FILL SEQUENCING NOTES:**
1. FINAL GRADES OF STOCKPILE AREA SHALL BE COMPLETED BY THE OWNER (AWWU).
 2. PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT, ALL TREES AND TALL SHRUBS SHALL BE CLEARED BUT THE AREA NOT GRUBBED. GEOTEXTILE FABRIC SHALL BE PLACED PRIOR TO IMPORT OF UNCLASSIFIED FILL MATERIAL.
 3. PLACEMENT OF FILL SHALL BE COMPLETED IN THE SEQUENCE SHOWN TO FACILITATE DRAINAGE AS DESIGNED BY THE ENGINEER AND FULFILL PERMIT REQUIREMENTS.
 4. COMPACTION OF FILL SHALL CONFORM TO THE REQUIREMENTS IN MASS DIVISION 20 - EARTHWORK AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

LEGEND:

- EXISTING ACCESS ROAD
- PROPOSED ACCESS ROAD
- EXISTING VEGETATION TO REMAIN
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED CULVERT
- PROPOSED BERM
- PROPOSED DRAINAGE WAYS
- FILL SEQUENCING
- FILL SEQUENCE DIRECTION

BAKER HUGHES

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MIN. FINAL CHECK						
PLAN CHECK									REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

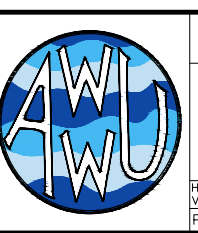
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PROFESSIONAL & TECHNICAL SERVICES, INC.
CONSULTING & ENGINEERING + SURVEYING
912 EAST 15TH AVE, SUITE 200
ANCHORAGE, ALASKA 99501
PHONE: (907) 561-6237
FAX: (907) 563-3813
LICENSE # AECC924

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION
PERMIT SET

**STOCKPILE AREA FILL SEQUENCING
SITE IMPROVEMENTS**

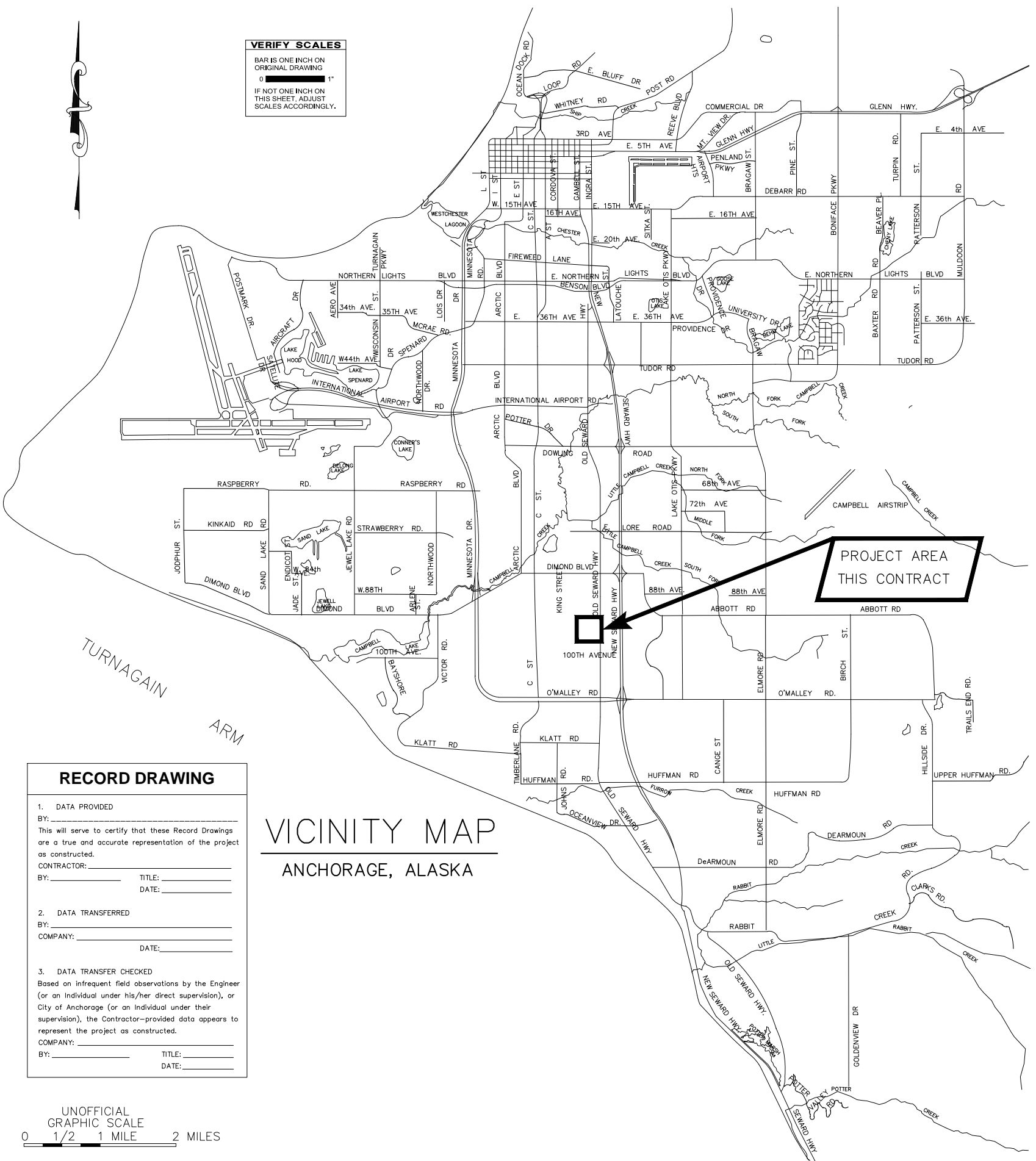
HORIZ SCALE: 1"=40'
VERT SCALE: NA
DATE: 05/2020
GRID: SW2431
PROJ. ID.: 00007

SHEET G6 of G6

AWWU PLAN SET NO.



VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 2"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**MUNICIPALITY OF ANCHORAGE
 WATER AND WASTEWATER UTILITY
 KING STREET CAMPUS EXPANSION
 SITE IMPROVEMENTS**

**AWWU PROJECT ID. NO. WW.00007 (WTR)
 MAY 2020**

95% DRAFT

RECORD DRAWING

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 COMPANY: _____ TITLE: _____
 BY: _____ DATE: _____

**VICINITY MAP
 ANCHORAGE, ALASKA**

UNOFFICIAL GRAPHIC SCALE
 0 1/2 1 MILE 2 MILES

PTS
 PROFESSIONAL & TECHNICAL SERVICES, INC.
 CONSULTING • ENGINEERING • SURVEYING
 912 EAST 15TH AVE, SUITE 200
 ANCHORAGE, ALASKA 99501
 PHONE: (907) 561-6237
 FAX: (907) 563-3813
 LICENSE# AECC924

AWWU PLAN SET NO. XXXX
 KING STREET CAMPUS EXPANSION
 PROJECT ID NO. WW.00007
 INVITATION TO BID NO. AWWU XX-X-XX

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE- UTILITIES-PARKS (MASS), THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL, AND THE SPECIAL PROVISIONS.
- MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES. A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18) INCHES SHALL BE MAINTAINED AT ALL WATER/SEWER CROSSINGS.
- MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MANS OR SERVICES) OR SANITARY SEWER (MANS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4-INCH THICK INSULATION.
- ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20 PER FOUR (4) INCH THICK INSULATION.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION.
- IN CASE OF CONFLICT BETWEEN STATIONING LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS RELATIVE TO THE CENTERLINE OR PROPERTY LINE, THE DIMENSIONED LOCATIONS SHALL GOVERN.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- CONTRACTOR SHALL FIELD INSTALL "MEG-A-LUG" JOINT RESTRAINT ON ALL MECHANICAL JOINTS.
- CONTRACTOR SHALL USE DUCTILE IRON PIPE (DIP) LONG SOLID SLEEVES WITH RESTRAINED JOINTS TO FACILITATE CONNECTING DIP TO DIP OF SAME SIZE.
- ALL DUCTILE AND CAST IRON PIPE AND FITTINGS SHALL BE ENCASED IN 8-MILS OF POLYETHYLENE WRAP, AS PER MASS SECTION 60.07 "POLYETHYLENE ENCASEMENT."
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- STATIONING SHALL BE PIPE CENTERLINE UNLESS NOTED OTHERWISE
- PERMIT SET: OTHER NOTES, ABBREVIATIONS, AND SYMBOLS MAY APPEAR ON THIS PERMIT PLAN SET THAT MAY NOT APPEAR IN THE LEGEND. CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF REQUIRED.
- PROPOSED CONTOURS ARE SHOWN AT 1-FT INTERVAL.

CLEARING NOTES:

- CLEARING LIMITS TO BE MARKED WITH FLAGGING AND/OR LATH, AND BE ACCEPTED BY THE OWNER PRIOR TO COMMENCING CLEARING.
- ALL CLEARING ACTIONS AND METHODS SHALL CONFORM TO THE REQUIREMENTS DISCUSSED IN MASS, SECTION 20.04 - CLEARING AND GRUBBING, SECTION 20.05 - CLEARING, AND SECTION 20.06 - REMOVAL OF TREES.
- NO WETLANDS, STREAMS, OR OTHER WATER BODIES OF THE UNITED STATES ARE WITHIN THE PROJECT BOUNDARY OR WILL BE AFFECTED BY THE CONSTRUCTION RELATED ACTIVITIES OF THIS PROJECT.
- NO CLEARING, GRUBBING, OR GROUND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL PERTINENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BEST MANAGEMENT PRACTICES (BMP'S) HAVE BEEN INSTALLED.

SITE IMPROVEMENTS SHEET INDEX	
SHEET	SUBJECT
C1	COVER SHEET
C2	NOTES, LEGEND AND SHEET INDEX
C3	KEY MAPS
C4	SURVEY CONTROL
C5	TEMPORARY CONSTRUCTION PERMIT INDEX (NOT INCLUDED AT 95%)
C6	SITE LAYOUT
C7	TYPICAL SECTIONS I
C8	SITE GRADING PLAN I
C9	SITE GRADING PLAN II
C10	CROSS SECTIONS
C11	SITE GRADING PLAN DETAILS
C12	CANTILEVER GATE DETAILS

WATER NOTES

- AWWU, AFD AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
- ALL WATER MAINS SHALL BE C900 PVC DR-18 RJIB PIPE.
- ALL BENDS, TEES, FIRE HYDRANTS AND DEAD-ENDS SHALL HAVE RESTRAINED FITTINGS.
- NO PIPE LENGTH LESS THAN EIGHT (8') FEET SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR THOSE NECESSARY FOR FIRE HYDRANTS OR VALVE LOCATIONS UNLESS RESTRAINED.
- THRUST RESTRAINT SHALL BE PROVIDED BY USE OF FIELD-LOK GASKETS (OR EQUAL) OR MEG-A-LUG FITTINGS (OR EQUAL) ON ALL MECHANICAL JOINTS. THE USE OF THRUST BLOCKS WILL NOT BE ALLOWED FOR NEW PIPE.
- WATER SERVICES SHALL BE 2" UNLESS NOTED ON PLANS.
- WATER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY SANITARY SEWER MAIN, SANITARY SEWER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE
- THE CONTRACTOR SHALL HAVE THE NEWLY INSTALLED WATER MAIN OPEN BORE FLUSHED BY AWWU PRIOR TO INSTALLATION OF WATER SERVICES. PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE.
- ALL WATER MAIN AND SERVICE TRENCHES AND BEDDING SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS.
- MAXIMUM DEFLECTION OF PIPE PER JOINT SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED DEFLECTION (4 DEGREES).
- ALL PIPE BEDDING SHALL BE TYPE II-A FOR DUCTILE IRON PIPE.
- THE CONTRACTOR SHALL RELOCATE ANY WATER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD DISTANCES PRIOR TO ACCEPTANCE BY AWWU.
- THE DEAD END OF THE WATER MAIN SHALL BE RESTRAINED FOR A MINIMUM OF 40' FROM END.

GENERAL SURVEY NOTES:

- THE FIELD SURVEY WAS PERFORMED BY PROFESSIONAL AND TECHNICAL SERVICES INC.(PTS) FROM OCTOBER 10 TO SEPTEMBER 16, 2018, AND DECEMBER 10, 2019. FIELD SURVEY INFORMATION FOR THIS PROJECT IS LOCATED IN PTS FIELD BOOK 18-102, PAGES 5 THROUGH 18.
- CONTOUR INTERVAL = 2 FOOT.
- MANHOLE LOCATIONS ARE SHOWN TO APPROXIMATE CENTER OF STRUCTURE.
- ALL ROADWAY SURFACES ARE ASPHALT UNLESS OTHERWISE NOTED.
- UNDERGROUND NATURAL GAS, TELEPHONE, ELECTRIC, AND CABLE TV LINES WERE FIELD LOCATED. PRIVATE SERVICE LINES WERE NOT FIELD LOCATED UNLESS SHOWN HEREON.
- AWWU AND STREET MAINTENANCE DID NOT RESPOND TO OUR LOCATE REQUEST.
- LOCATION OF WATER UTILITY LINES IS APPROXIMATE. THEY ARE DRAWN FROM VALVE TO VALVE USING ASBUILT INFORMATION AND WERE NOT FIELD LOCATED.
- UNDERGROUND STREET LIGHT LINES EXIST WITHIN THE PROJECT AREA.
- UNDERGROUND NATURAL GAS, TELEPHONE, ELECTRIC, AND CABLE TV LINE CROSSINGS IN THE PROFILE ARE SHOWN AT AN ASSUMED VERTICAL LOCATION. EXACT VERTICAL LOCATIONS SHOULD BE VERIFIED.
- A TITLE SEARCH WAS NOT PERFORMED, EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON THE RECORDED PLATS ARE NOT SHOWN HEREON.
- ALL DISTURBED PROPERTY CORNERS SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH SPECIAL PROVISION 65.02, ARTICLE 2.1 PROJECT CONTROL.
- ELEVATIONS ARE BASED ON THE M.O.A. VERTICAL DATUM 1972 N.G.S. ADJUSTMENT. BENCH MARK IS "MOA 13", ELEV.=141.28'. SEE M.O.A. BENCHMARK BOOK, DESCRIPTION PAGE D-60.

SOIL ABBREVIATIONS	
GW	- WELL GRADED GRAVEL
GP	- POORLY GRADED GRAVEL
GM	- SILTY GRAVEL
GC	- CLAYEY GRAVEL
SW	- WELL GRADED SAND
SP	- POORLY GRADED SAND
SM	- SILTY SAND
SC	- CLAYEY SAND
ML	- INORGANIC SILT
CL	- INORGANIC CLAY
OL	- ORGANIC SILT
MH	- INORGANIC SILT
CH	- ORGANIC CLAY
OH	- ORGANIC CLAY
PT	- PEAT

LEGEND - PROFILE		DESCRIPTION
---	---	CENTERLINE GRADE
---	---	LEFT PROPERTY LINE GRADE
---	---	RIGHT PROPERTY LINE GRADE
---	---	INSULATION
---	---	PIPE REMOVAL
---	---	WATER LEVEL
---	---	UTILITY MAIN
---	---	STORM DRAIN/SEWER MANHOLE



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AFSC/ASIG Chevron Alaska Railroad Military Fuel Lines State Storm Drains	243-4322 258-2301 265-2520 552-3760 & 333-2411

LEGEND - PLAN		DESCRIPTION
---	---	PROPERTY LINE
---	---	EASEMENT
---	---	CENTERLINE
---	---	CURB & GUTTER
---	---	EDGE OF PAVEMENT
---	---	WATER MAIN
---	---	SEWER MAIN
---	---	STORM DRAIN MAIN
---	---	OVERHEAD ELECTRIC
---	---	OVERHEAD TELEPHONE
---	---	UNDERGROUND ELECTRIC
---	---	UNDERGROUND CABLE
---	---	UNDERGROUND FIBER OPTIC
---	---	UNDERGROUND NATURAL GAS
---	---	FENCE
---	---	CHAINLINK FENCE
---	---	DRAINAGE ARROW
⊙	⊙	ELECTRICAL HAND HOLE
⊙	⊙	TELEPHONE HAND HOLE
⊙	⊙	ELECTRICAL VAULT
⊙	⊙	ELECTRICAL METER
⊙	⊙	UNDERGROUND ELECTRICAL PEDESTAL
⊙	⊙	UNDERGROUND TELEPHONE PEDESTAL
⊙	⊙	GAS METER
⊙	⊙	JUNCTION BOX
⊙	⊙	GAS VALVE
⊙	⊙	MAILBOX
⊙	⊙	STREET SIGN
⊙	⊙	IRON PIN OR REBAR
⊙	⊙	SECTION CORNER/SURVEY MONUMENT
⊙	⊙	LIGHT POLE
⊙	⊙	WATER KEYBOX
⊙	⊙	WATER VALVE
⊙	⊙	WATER END CAP / THRUST BLOCK
⊙	⊙	FIRE HYDRANT
⊙	⊙	SEWER MANHOLE
⊙	⊙	SEWER SERVICE
⊙	⊙	SEWER PLUG
⊙	⊙	CLEANOUT
⊙	⊙	STORM DRAIN MANHOLE
⊙	⊙	STORM DRAIN CATCH BASIN
⊙	⊙	STORM DRAIN CATCH BASIN MANHOLE
⊙	⊙	STORM DRAIN SERVICE
⊙	⊙	CULVERT
⊙	⊙	CONIFEROUS TREE
⊙	⊙	DECIDUOUS TREE
⊙	⊙	BOULDER
⊙	⊙	RETURN RADIUS
⊙	⊙	REMOVE EXISTING PAVEMENT
⊙	⊙	RAP SURFACE
⊙	⊙	TEST BORING OR TEST HOLE

ABBREVIATIONS

AC	- ASBESTOS CEMENT
A.C.	- ASPHALT CONCRETE
AD	- ALGEBRAIC DIFFERENCE
AFD	- ANCHORAGE FIRE DEPARTMENT
AWWU	- ANCHORAGE WATER & WASTEWATER
BOH	- BOTTOM OF HOLE
BOP	- BOTTOM OF PIPE
BV	- BUTTERFLY VALVE
BVCE	- BEGIN VERTICAL CURVE - ELEVATION
BVCS	- BEGIN VERTICAL CURVE - STATION
CC	- CURB CUT
CIP	- CAST IRON PIPE
CL	- CENTERLINE
DIA	- DIAMETER
DIP	- DUCTILE IRON PIPE
EG	- EXISTING GROUND
EL	- ELEVATION
ELEV	- ELEVATION
EOP	- EDGE OF PAVEMENT
EVCE	- END VERTICAL CURVE - ELEVATION
EVCS	- END VERTICAL CURVE - STATION
F&I	- FURNISH AND INSTALL
FG	- FINISHED GRADE
FH	- FIRE HYDRANT
GV	- GATE VALVE
H	- HORIZONTAL
HDD	- HORIZONTAL DIRECTIONAL DRILLING
HDPE	- HIGH DENSITY POLYETHYLENE
IAW	- IN ACCORDANCE WITH
INV	- INVERT
K	- SIGHT DISTANCE
LF	- LINEAR FEET
LT	- LEFT
MASS	- MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS
M.E.	- MATCH EXISTING
MSL	- MEAN SEA LEVEL
NTS	- NOT TO SCALE
OFF	- OFFSET
OSHA	- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PL	- PROPERTY LINE
PC	- POINT OF CURVATURE
PRC	- POINT OF REVERSE CURVE
PT	- POINT OF TANGENCY
PTMT	- PILOT TUBE MICROTUNNELING
PVC	- POLYVINYL CHLORIDE
PVI	- POINT OF VERTICAL INTERSECTION
RC	- REINFORCED CONCRETE PIPE
RED	- REDUCER
RS	- RESILIENT SEATED
RT	- RIGHT
ROW	- RIGHT OF WAY
RP	- RADIUS POINT
SI	- STREET INTERSECTION
SP	- SINGLE PUMPER
SSMH	- SANITARY SEWER MANHOLE
ST	- STREET
STA	- STATION
STD	- STANDARD
SY	- SQUARE YARD
TAP	- TEMPORARY ACCESS PERMIT
TB	- THRUST BLOCK
TBC	- TOP BACK OF CURB
TCE	- TEMPORARY CONSTRUCTION EASEMENT
TCP	- TEMPORARY CONSTRUCTION PERMIT
TOP	- TOP OF PIPE
TP	- TOP OF PAVEMENT
TYP	- TYPICAL
VB	- VALVE BOX
VC	- VERTICAL CURVE
WS	- WOOD STAVE

* E. 94TH AVENUE IMPROVEMENTS SUBMITTED UNDER A SEPARATE COVER.

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

RECORD DRAWING		Note: To be filled out on original drawings upon project completion.	
1. DATA PROVIDED BY:	_____	3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.	CONTRACTOR: _____
2. DATA TRANSFERRED BY:	_____	DATA TRANSFER CHECKED BY:	_____
COMPANY:	_____	COMPANY:	_____
DATE:	_____	TITLE:	_____
DATE:	_____	DATE:	_____

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION

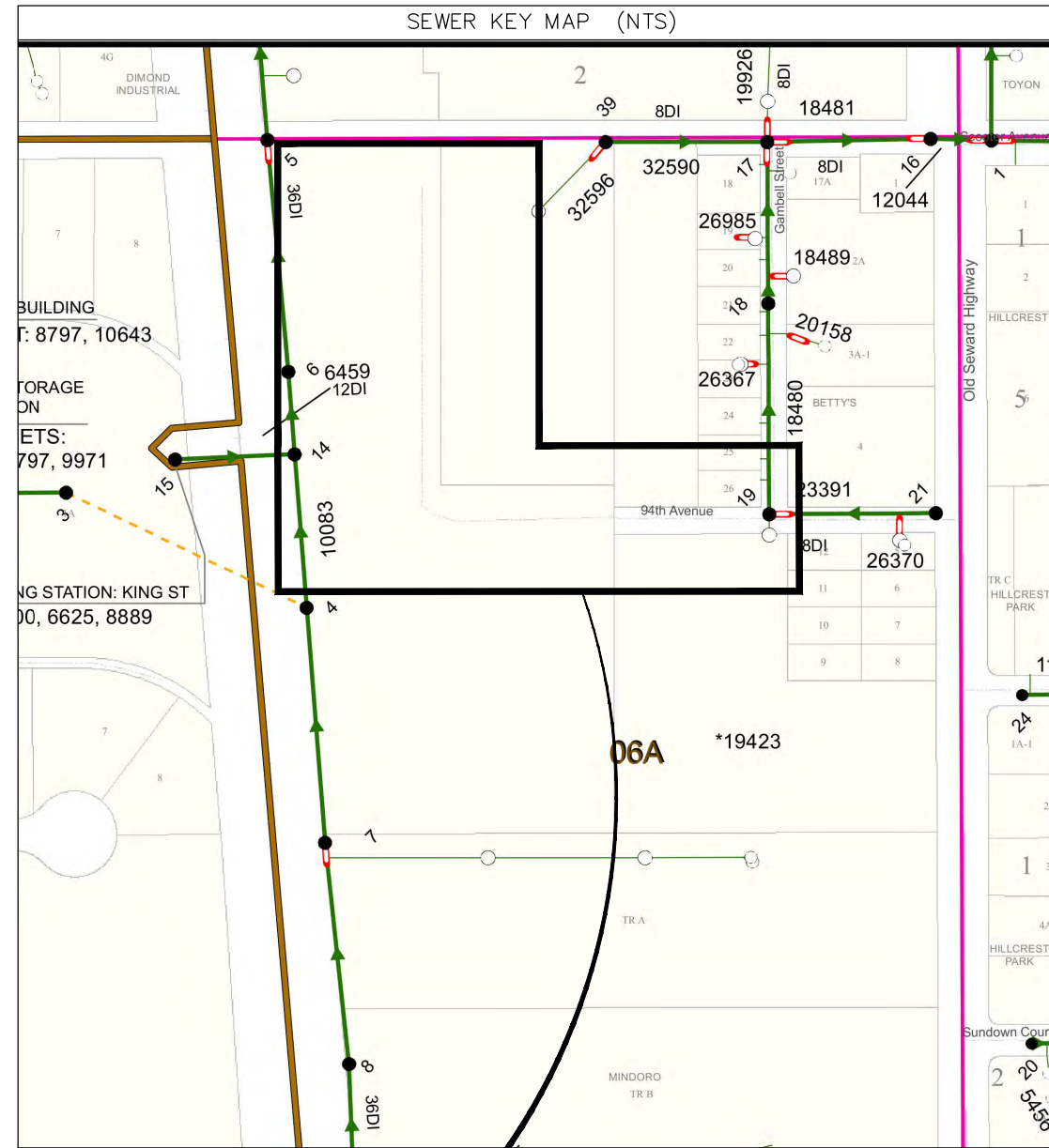
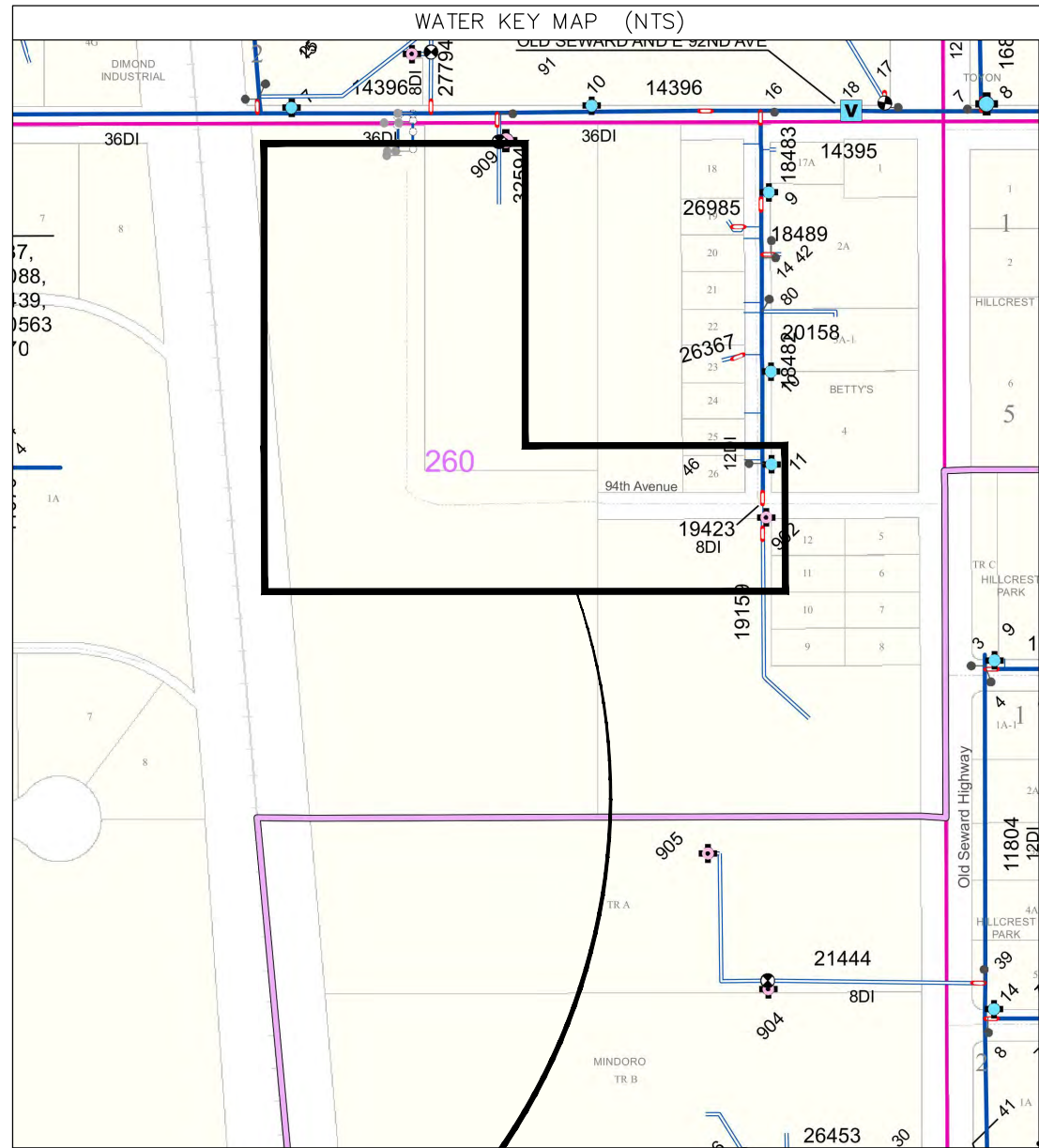
NOTES, LEGEND AND SHEET INDEX SITE IMPROVEMENTS

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/2020
GRID: SW2431
PROJ. ID.: WW 00007

SHEET C2 of C27

2019/10/02 2:08 PM By: Jonathan Petrunak\KS-03.dwg Active\00007 King Street PHASED Grading Plan.dwg

AWWU PLAN SET NO. XXXX



THIS PROJECT

THIS PROJECT

2019/10/02 2:08 PM By: Jonathan Petrunik\KS-03.dwg Active\00007 King Street PHASED Grading Plan.dwg

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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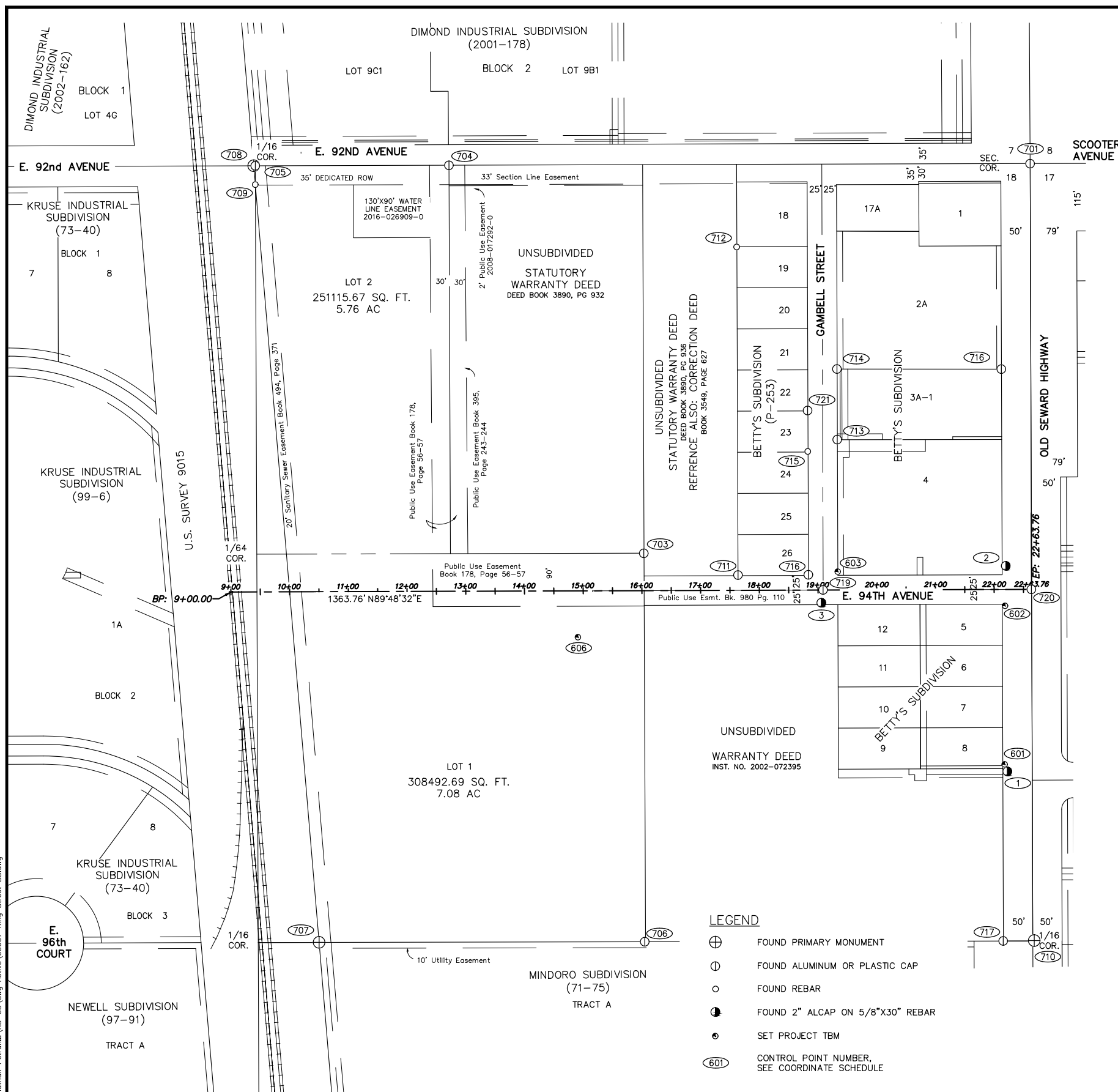
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION

**KEY MAPS
 SITE IMPROVEMENTS**

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/2020
 GRID: SW2431
 PROJ. ID.: WW 00007

SHEET C3 of C27



COORDINATE SCHEDULE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
3	19+05.50	21.68 RT	2606952.5528	1664104.8135	FOUND ALUMINUM CAP
2	22+19.86	40.10 LT	2607015.3764	1664418.9636	FOUND ALUMINUM CAP
1	22+21.43	309.95 RT	2606665.3340	1664421.7020	FOUND ALUMINUM CAP

TBM COORDINATE SCHEDULE						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
606	14+90.84	79.00 RT	2606894	1663690	124.53	'X' SCRIBED ON FOOTING OF GATE POST
603	19+33.64	31.20 LT	2607006	1664133	130.37	TOP OF SW CORNER CONC PAD
601	22+16.94	297.99 RT	2606677	1664417	135.83	'X' SCRIBED ON EAST BOLT OF LUMINARE
602	22+18.44	27.85 RT	2606947	1664418	135.01	'X' SCRIBED ON EAST BOLT OF LUMINARE

COORDINATE SCHEDULE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
708	9+41.31	725.78 LT	2607696.7900	1663138.1320	FOUND ALUMINUM MONUMENT
709	9+43.88	693.55 LT	2607664.5650	1663140.8160	FOUND REBAR
705	9+43.94	725.53 LT	2607696.5530	1663140.7640	FOUND ALUMINUM CAP
707	10+48.29	597.11 RT	2606374.2630	1663249.5230	FOUND ALUMINUM MONUMENT
704	12+73.86	725.34 LT	2607697.4620	1663470.6800	FOUND ALUMINUM CAP
706	16+02.98	597.84 RT	2606375.3860	1663804.2110	FOUND ALUMINUM CAP
703	16+03.54	63.58 LT	2607036.8020	1663802.5700	FOUND ALUMINUM CAP
712	17+63.34	584.63 LT	2607558.3860	1663960.6270	FOUND REBAR
711	17+63.91	25.89 LT	2606999.6530	1663963.0670	FOUND PLASTIC CAP
721	18+83.32	305.76 LT	2607279.9140	1664081.5410	FOUND PLASTIC CAP
715	18+83.41	236.00 LT	2607210.1580	1664081.8620	FOUND REBAR
716	18+83.75	26.05 LT	2607000.2070	1664082.9030	FOUND PLASTIC CAP
3	19+05.50	21.68 RT	2606952.5528	1664104.8135	FOUND ALUMINUM CAP
719	19+08.60	0.07 LT	2606974.3160	1664107.8400	FOUND ALUMINUM CAP
714	19+33.55	376.25 LT	2607350.5710	1664131.5340	FOUND ALUMINUM MONUMENT
713	19+33.56	256.02 LT	2607230.3400	1664131.9420	FOUND ALUMINUM MONUMENT
717	22+13.51	598.59 RT	2606376.6680	1664414.7430	FOUND ALUMINUM MONUMENT
718	22+13.53	375.21 LT	2607350.4640	1664411.5210	FOUND ALUMINUM CAP
2	22+19.86	40.10 LT	2607015.3764	1664418.9636	FOUND ALUMINUM CAP
1	22+21.43	309.95 RT	2606665.3340	1664421.7020	FOUND ALUMINUM CAP
720	22+63.51	0.01 LT	2606975.4400	1664462.7430	FOUND ALUMINUM CAP
701	22+63.62	724.91 LT	2607700.3280	1664460.4430	FOUND ALUMINUM CAP
* 723	22+63.70	1920.95 RT	2605054.4848	1664469.3455	FOUND REBAR
* 702	-	-	2607692.6730	1661821.2680	FOUND ALUMINUM CAP
* 710	-	-	2606377.2850	1664467.4660	FOUND BRASS CAP
* 722	-	-	2605048.4675	1661832.3502	FOUND ALUMINUM CAP

* INDICATES NOT SHOWN HEREIN

SURVEY NOTES:

- THE FIELD SURVEY WAS PERFORMED BY PROFESSIONAL AND TECHNICAL SERVICES INC.(PTS). FROM OCTOBER 10 TO SEPTEMBER 16, 2018, AND DECEMBER 10, 2019. FIELD SURVEY INFORMATION FOR THIS PROJECT IS LOCATED IN PTS FIELD BOOK 18-102, PAGES 5 THROUGH 18.
- A TITLE SEARCH WAS NOT PERFORMED, EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON THE RECORDED PLATS ARE NOT SHOWN HEREON. RECORD REFERENCE INFORMATION FOR EASEMENTS IS NOT SHOWN HERON.
- ALL DISTURBED PROPERTY CORNERS SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE M.O.A. STANDARD SPECIFICATIONS, SECTION 65.02 CONSTRUCTION SURVEYING, ARTICLE 2.1 PROJECT CONTROL.
- THE BASIS OF BEARINGS IS NAD83 (2011) EPOCH:2010.00 ALASKA STATE PLANE ZONE 4 GRID FROM GPS OBSERVATIONS.
- COORDINATES ARE NAD83 (2011) EPOCH:2010.00 ALASKA STATE PLANE ZONE 4 EXPRESSED IN U.S. SURVEY FEET. THE BASIS OF COORDINATES IS POINT NUMBER 1 PER AN N.G.S OPLUS SOLUTION.
- TO CONVERT STATE PLANE COORDINATES TO ADOT&PF BOWL 2000 COORDINATES, SCALE USING 1.0001089930 AND TRANSLATE USING -2,296,869.1995 N, -1,312,517.2322 E.
- ELEVATIONS ARE BASED ON THE M.O.A. VERTICAL DATUM 1972 N.G.S. ADJUSTMENT. BENCH MARK IS "MOA 13", ELEV.=141.28'. SEE M.O.A. BENCHMARK BOOK, DESCRIPTION PAGE D-60.

LEGEND

⊕	FOUND PRIMARY MONUMENT
⊙	FOUND ALUMINUM OR PLASTIC CAP
○	FOUND REBAR
●	FOUND 2" ALCAP ON 5/8"X30" REBAR
●	SET PROJECT TBM
⓪	CONTROL POINT NUMBER, SEE COORDINATE SCHEDULE

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MIN. FINAL CHECK						

PLAN CHECK

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____ This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed. CONTRACTOR: _____ BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ COMPANY: _____ BY: _____ TITLE: _____ DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed. DATA TRANSFER CHECKED BY: _____ COMPANY: _____ BY: _____ TITLE: _____ DATE: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION

**SURVEY CONTROL SHEET
SITE IMPROVEMENTS**

HORIZ SCALE: 1" = 30'	DATE: 5/2020	GRID: SW2431
VERT SCALE: N/A	PROJ. ID.: WW 00007	SHEET C4 of C27

2019/10/02 2:08 PM By: Jonathan Petrunak\KS-03.dwg Active\00007 King Street BS.dwg



TEMPORARY CONSTRUCTION PERMIT INDEX TO BE INCLUDED AT BID

2019/10/02 2:08 PM By: Jonathan Petrunik\KS-03.dwg Active\00007 King Street PHASED Grading Plan.dwg

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		0 1"		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
BASE			TELEPHONE				
TOPOGRAPHY			ELECTRIC				
PROFILE			CABLE TV				
SANITARY SEWER			TRAFFIC SIGNAL				
STORM SEWER			DESIGN				
WATER			QUANTITIES				
GAS			MIN. FINAL CHECK				
PLAN CHECK				REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

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 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
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MUNICIPALITY OF ANCHORAGE
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KING STREET CAMPUS EXPANSION

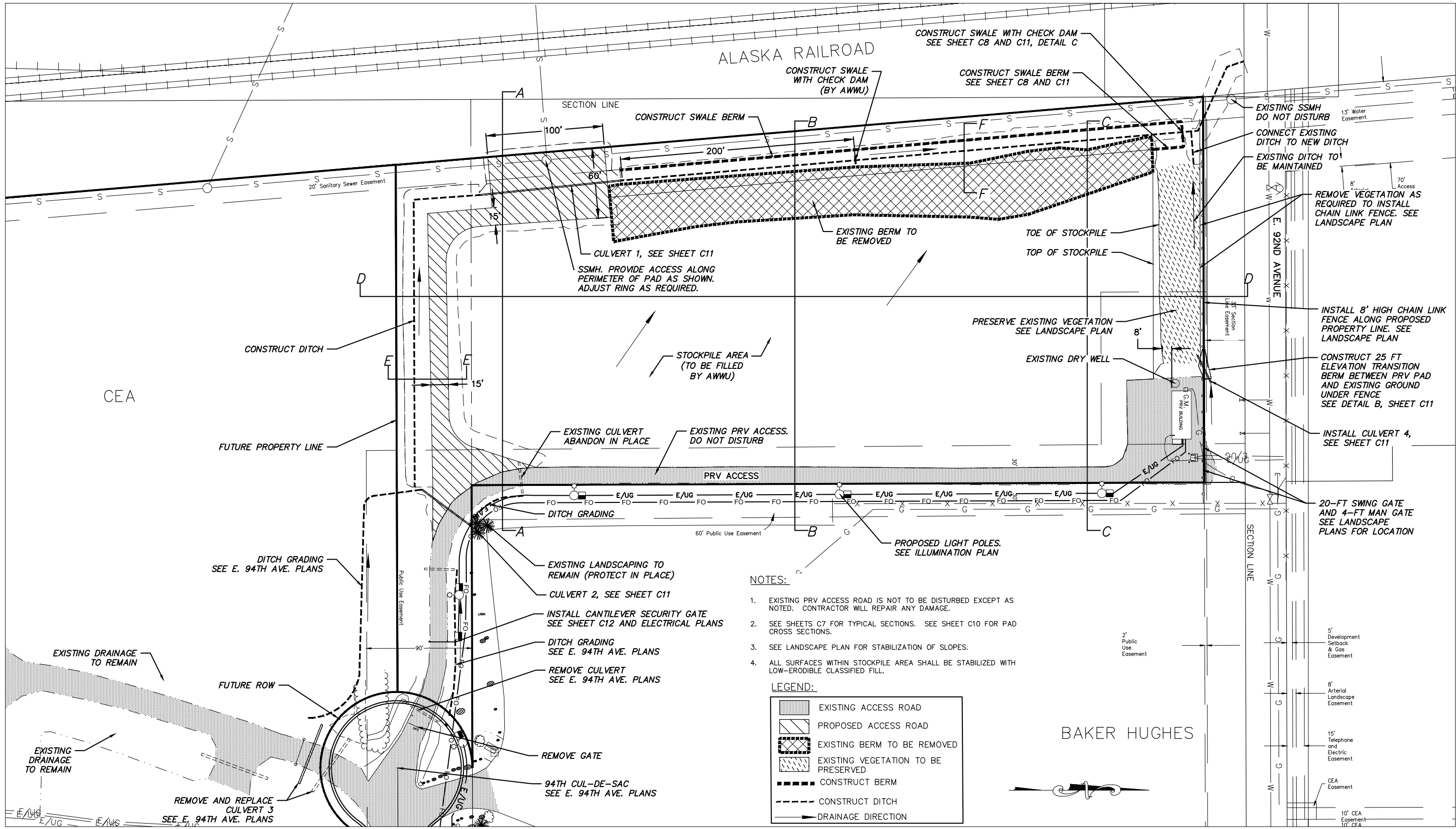
**TEMPORARY CONSTRUCTION PERMIT
 SITE IMPROVEMENTS**

HORIZ SCALE: 1" = 30'
 VERT SCALE: N/A

DATE: 5/2020 GRID: SW2431

PROJ. ID.: WW 00007

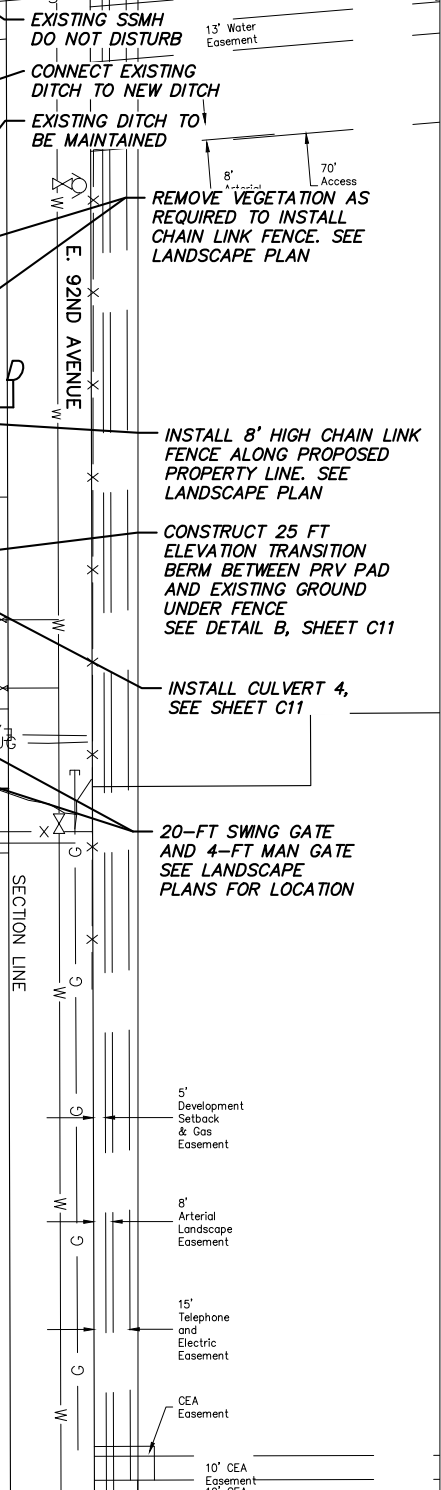
SHEET C5 of C27



- NOTES:**
- EXISTING PRV ACCESS ROAD IS NOT TO BE DISTURBED EXCEPT AS NOTED. CONTRACTOR WILL REPAIR ANY DAMAGE.
 - SEE SHEETS C7 FOR TYPICAL SECTIONS. SEE SHEET C10 FOR PAD CROSS SECTIONS.
 - SEE LANDSCAPE PLAN FOR STABILIZATION OF SLOPES.
 - ALL SURFACES WITHIN STOCKPILE AREA SHALL BE STABILIZED WITH LOW-ERODIBLE CLASSIFIED FILL.

LEGEND:

- EXISTING ACCESS ROAD
- PROPOSED ACCESS ROAD
- EXISTING BERM TO BE REMOVED
- EXISTING VEGETATION TO BE PRESERVED
- CONSTRUCT BERM
- CONSTRUCT DITCH
- DRAINAGE DIRECTION



2019/10/02 2:08 PM By: Jonathan Petrunak\NS-03.dwg Active\00007 King Street PHASED Grading Plan.dwg

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
BASE					
TOPOGRAPHY					
PROFILE					
SANITARY SEWER					
STORM SEWER					
WATER					
GAS					
PLAN CHECK					
REVISIONS					

VERIFY SCALE
THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING
Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

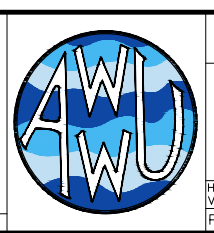
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DATA TRANSFER CHECKED BY: _____
COMPANY: _____
TITLE: _____
DATE: _____

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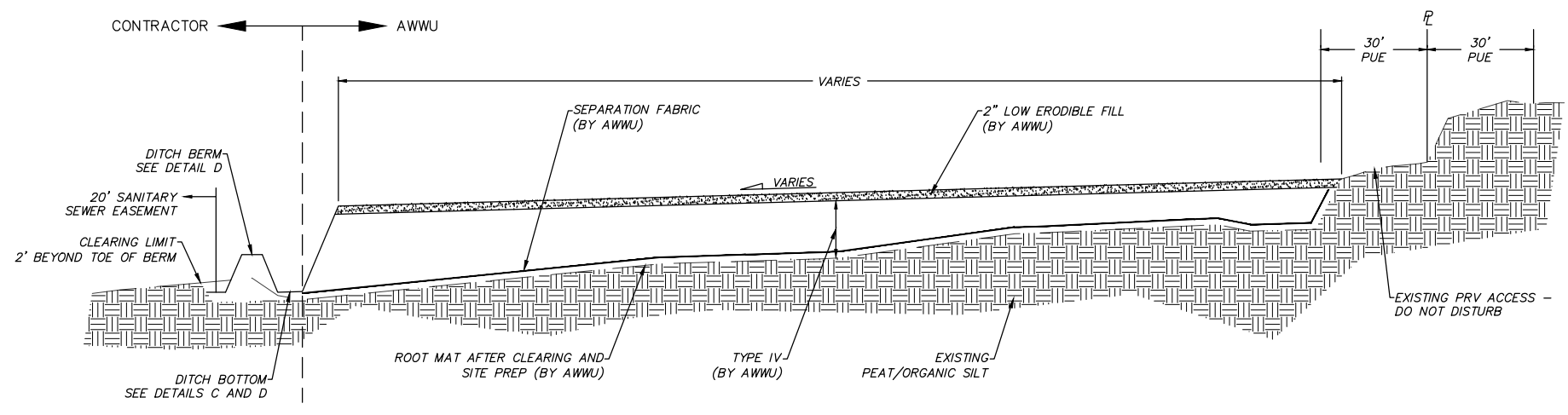
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WATER & WASTEWATER UTILITY

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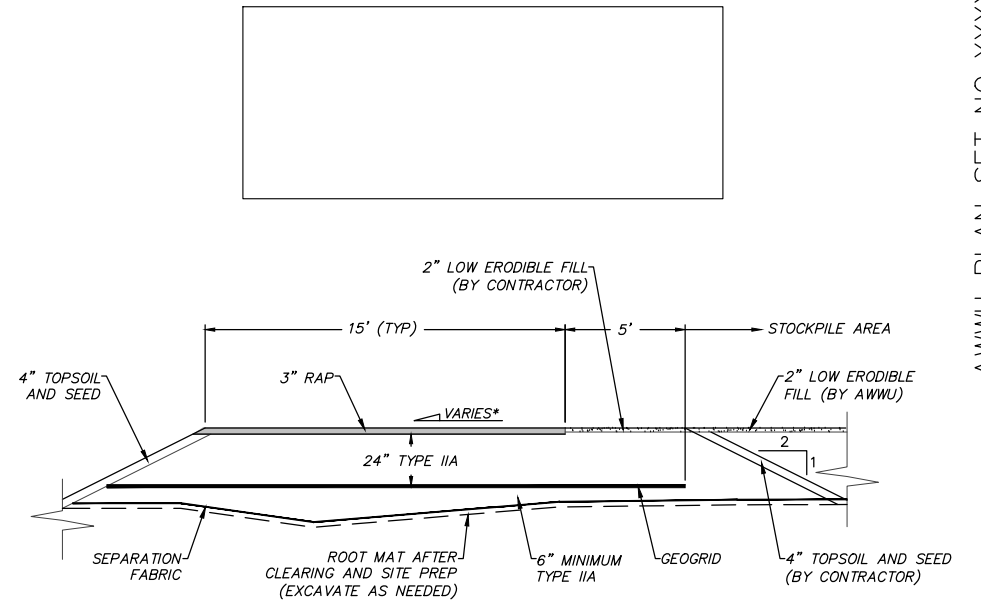
**SITE LAYOUT
SITE IMPROVEMENTS**

HORIZ SCALE: 1" = 40'
VERT SCALE: N/A
DATE: 5/2020
GRID: SW2431
PROJ. ID.: WW 00007

SHEET C6 of C27



(A)
(C7) TYPICAL STOCKPILE AREA CONSTRUCTION DETAILS
GENERAL (SECTION B-B)

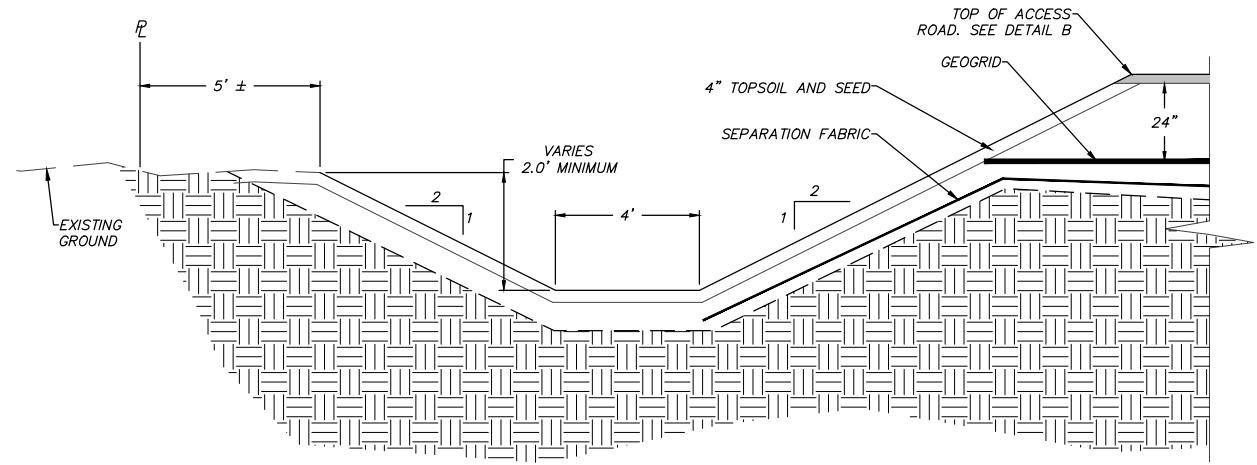


(B)
(C7) TYPICAL ACCESS ROAD CONSTRUCTION DETAILS
NOT TO SCALE

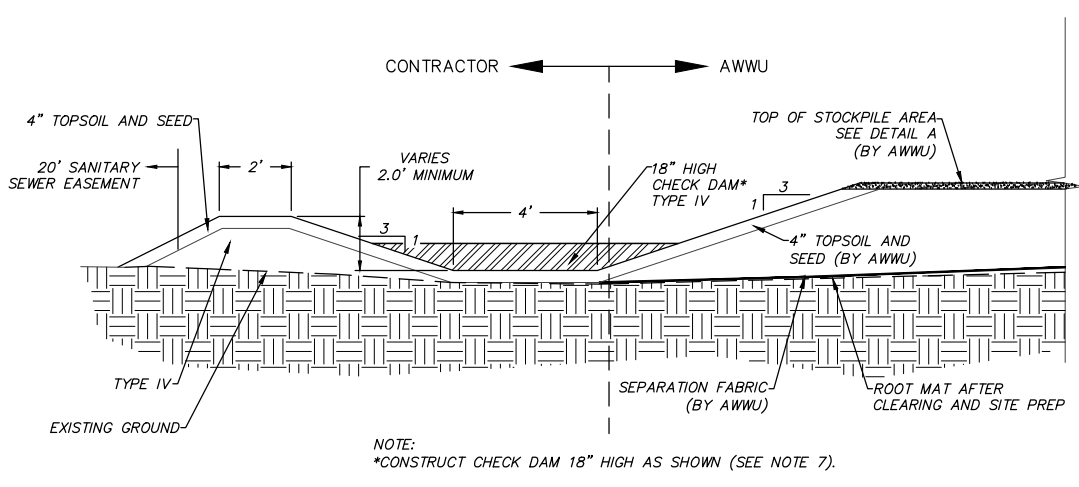
* SLOPE VARIES BETWEEN 0.5% AND 0.75% SOUTH, AND GENERAL DRAINAGE PATTERN FOLLOWS STOCKPILE AREA AT APPROXIMATELY 1.5% WEST

CONSTRUCTION NOTES:

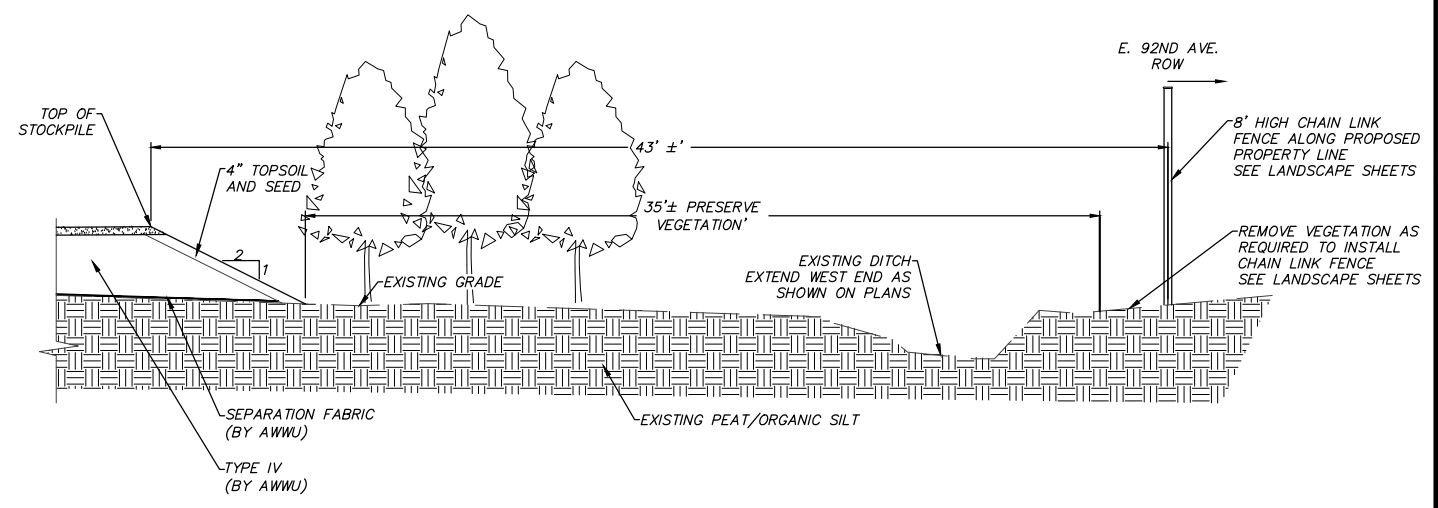
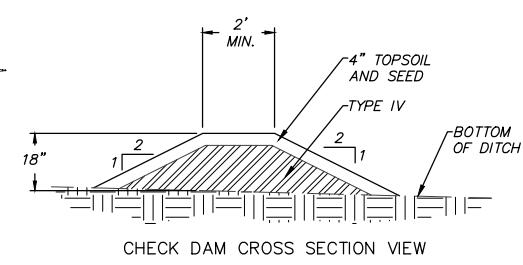
1. SEPARATION FABRIC AND GEOGRID SHALL BE PLACED WITH A MINIMUM OF 2 FT OVERLAP AT ALL SEAMS.
2. COMPACTION SHALL BE 95% OF MAXIMUM DENSITY FOR ALL MATERIAL.
3. PROTECT EXISTING VEGETATION (TREES, SHRUBS, AND GRASS) OUT SIDE OF CLEARING LIMITS AND DITCH GRADING TO THE GREATEST EXTENT POSSIBLE. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
4. CONTRACTOR SHALL RESTORE ALL LANDSCAPING AND IMPROVEMENTS TO ORIGINAL CONDITION IN KIND WITH NEW MATERIALS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
5. SEE LANDSCAPE SHEETS FOR SEED MIX TYPES.
6. MOA INSPECTION SHALL OCCUR WHEN 50% AND 100% OF THE SPECIFIED ENGINEERED CLASSIFIED FILL HAS BEEN PLACED.
7. CONTRACTOR TO INSTALL NORTH CHECK DAM AS SHOWN ON SHEET C8.



(C)
(C7) TYPICAL DITCH CONSTRUCTION DETAILS (CUT SECTION)
SOUTH DITCH (SECTION E-E)



(D)
(C7) TYPICAL SWALE CONSTRUCTION DETAILS WITH BERM (WATER QUALITY / RETENTION FEATURE)
(SECTION F-F)



(E)
(C7) TYPICAL NORTH END CONSTRUCTION DETAILS
(SECTION D-D)

2019/10/02 2:08 PM By: Jonathan Petrunak\KS-03.dwg Active\00007 King Street Phased Grading Plan.dwg

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

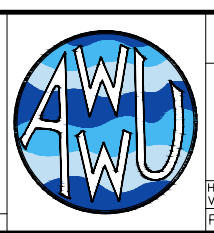
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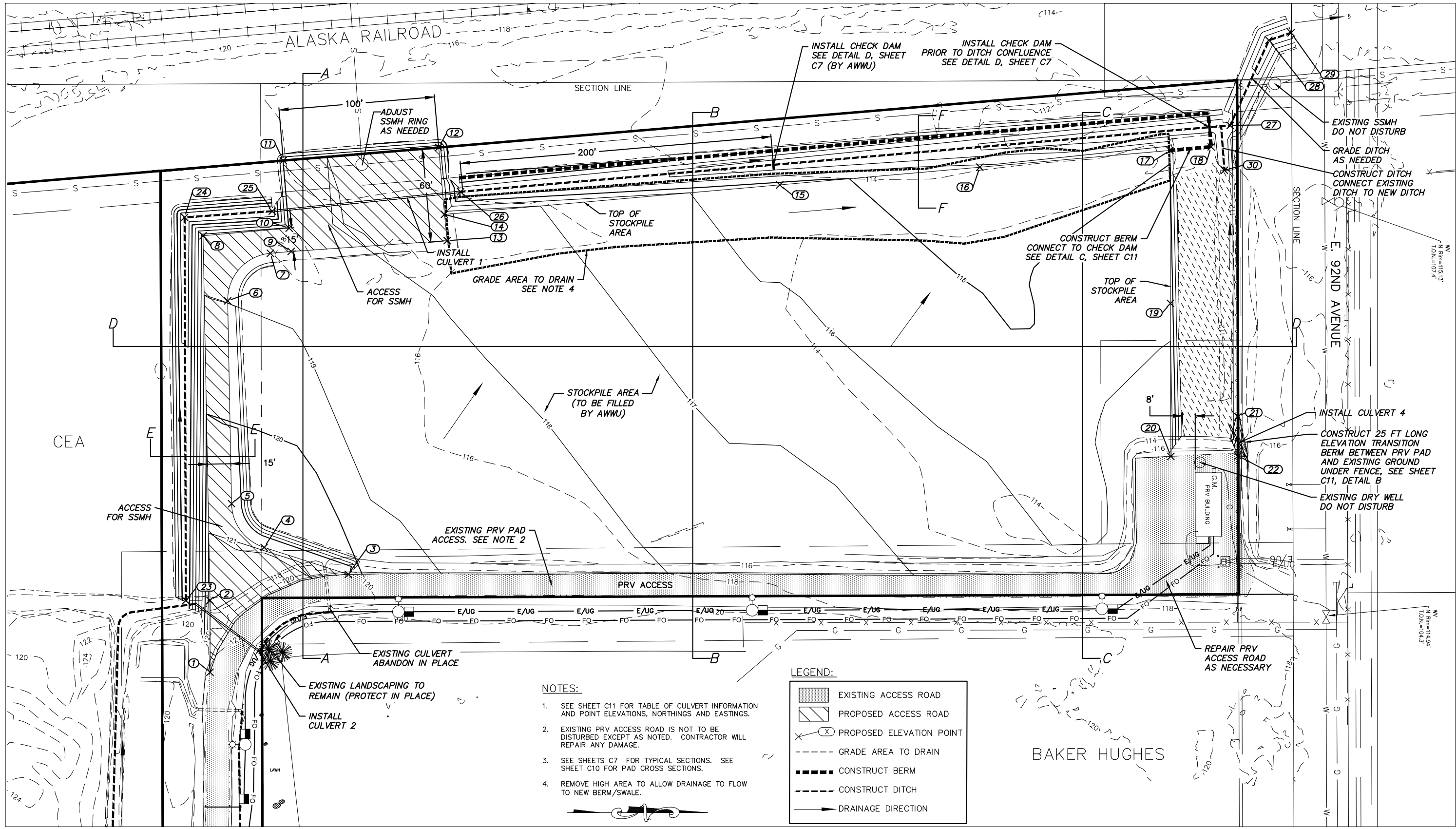
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KING STREET CAMPUS EXPANSION

**TYPICAL SECTIONS I
SITE IMPROVEMENTS**

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/2020
GRID: SW2431
PROJ. ID.: WW 00007

SHEET C7 of C27



- NOTES:**
- SEE SHEET C11 FOR TABLE OF CULVERT INFORMATION AND POINT ELEVATIONS, NORTHINGS AND EASTINGS.
 - EXISTING PRV ACCESS ROAD IS NOT TO BE DISTURBED EXCEPT AS NOTED. CONTRACTOR WILL REPAIR ANY DAMAGE.
 - SEE SHEETS C7 FOR TYPICAL SECTIONS. SEE SHEET C10 FOR PAD CROSS SECTIONS.
 - REMOVE HIGH AREA TO ALLOW DRAINAGE TO FLOW TO NEW BERM/SWALE.

LEGEND:

- EXISTING ACCESS ROAD
- PROPOSED ACCESS ROAD
- PROPOSED ELEVATION POINT
- GRADE AREA TO DRAIN
- CONSTRUCT BERM
- CONSTRUCT DITCH
- DRAINAGE DIRECTION

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MIN. FINAL CHECK						
PLAN CHECK									
REVISIONS									

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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 DATE: _____

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 DATE: _____

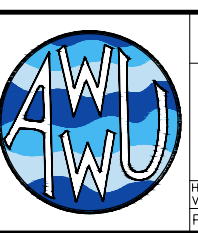
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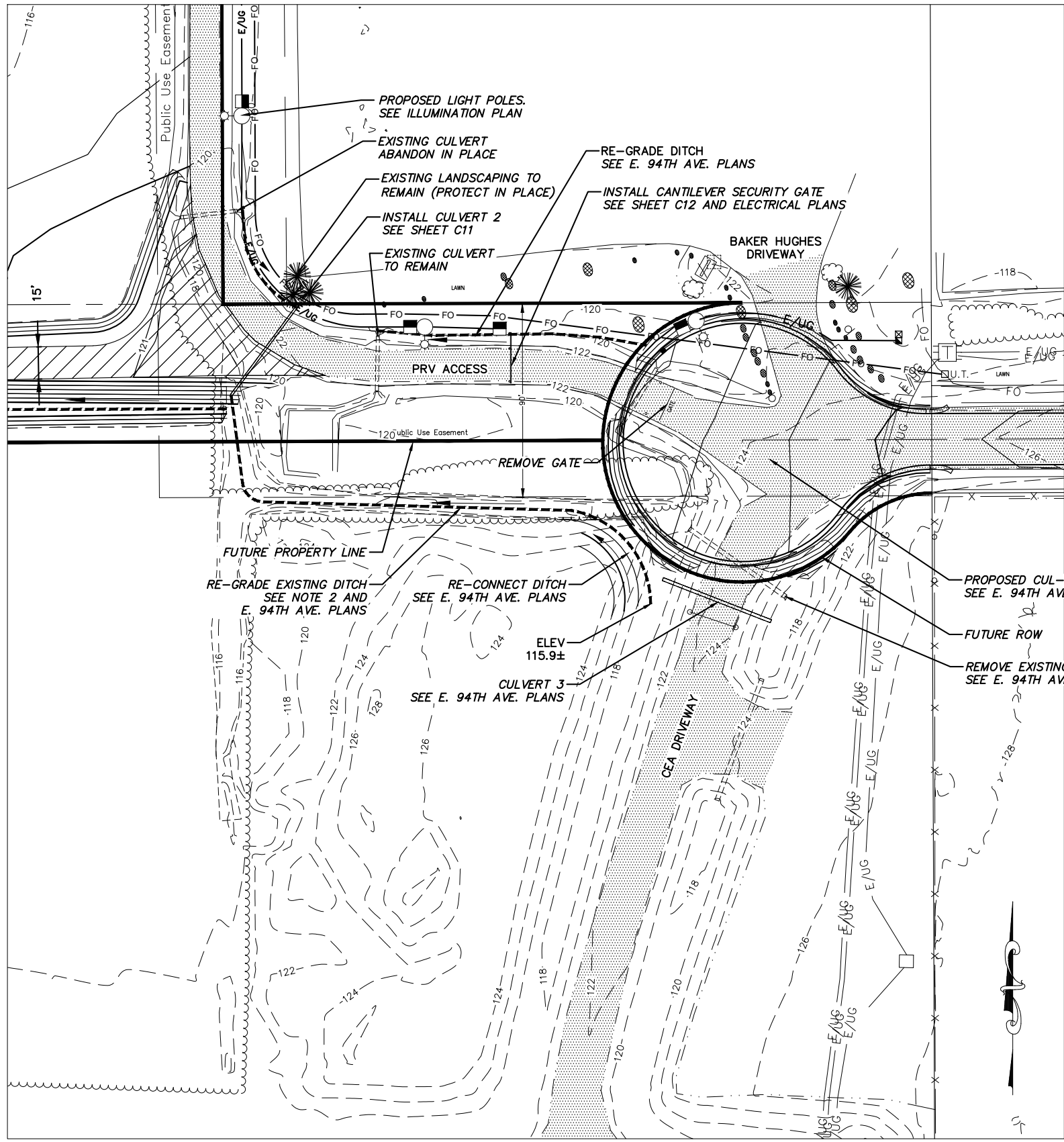
SITE GRADING PLAN I
 SITE IMPROVEMENTS

HORIZ SCALE: 1" = 30'
 VERT SCALE: N/A
 PROJ. ID.: WW 00007

DATE: 5/2020
 GRID: SW2431

SHEET C8 of C27

2019/10/02 2:08 PM By: Jonathan Petrunik\KS-03.dwg Active\00007 King Street PHASED Grading Plan.dwg



NOTES:

- SEE SHEET C11 FOR TABLE OF POINT ELEVATIONS, NORTHINGS AND EASTINGS.
- RE-GRADE EXISTING DITCH TO REMOVE DEBRIS AND ESTABLISH A CONTINUOUS FLOW PATH. MINIMUM WIDTH IS 4 FEET. ELEVATIONS SHOWN ARE MAXIMUM ELEVATIONS. EXISTING DITCH MAY BE LOWER IN PLACES AND WATER RETENTION IS ACCEPTABLE.
- PROTECT EXISTING VEGETATION (TREES, SHRUBS, AND GRASS) TO THE GREATEST EXTENT POSSIBLE. PROTECTION OF VEGETATION SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE. SEE E. 94TH AVENUE PLANS FOR ADDITIONAL INFORMATION.

LEGEND:

	EXISTING ROAD/ ACCESS ROAD
	PROPOSED ACCESS ROAD
	EXISTING CONTOURS
	PROPOSED CONTOURS
	PROPOSED ELEVATION POINT
	CONSTRUCT DITCH
	DRAINAGE DIRECTION

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DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
BASE			TELEPHONE				
TOPOGRAPHY			ELECTRIC				
PROFILE			CABLE TV				
SANITARY SEWER			TRAFFIC SIGNAL				
STORM SEWER			DESIGN				
WATER			QUANTITIES				
GAS			MIN. FINAL CHECK				
PLAN CHECK				REVISIONS			

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2. DATA TRANSFERRED BY: _____
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 BY: _____ TITLE: _____
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 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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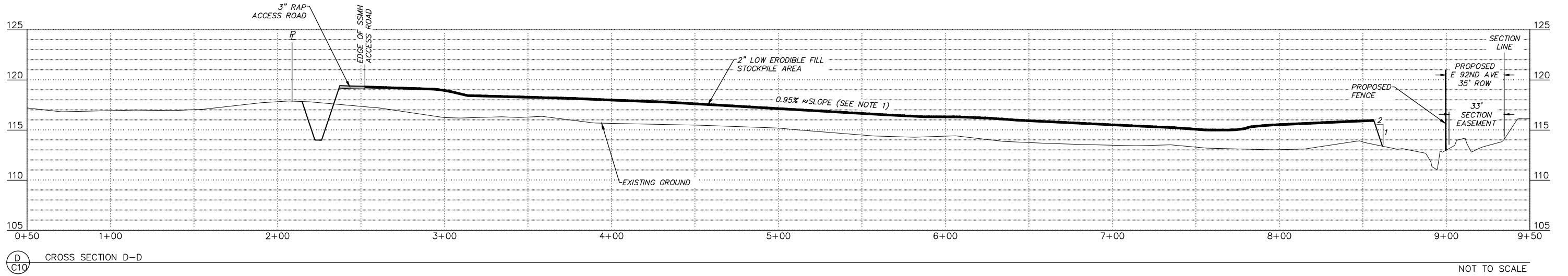
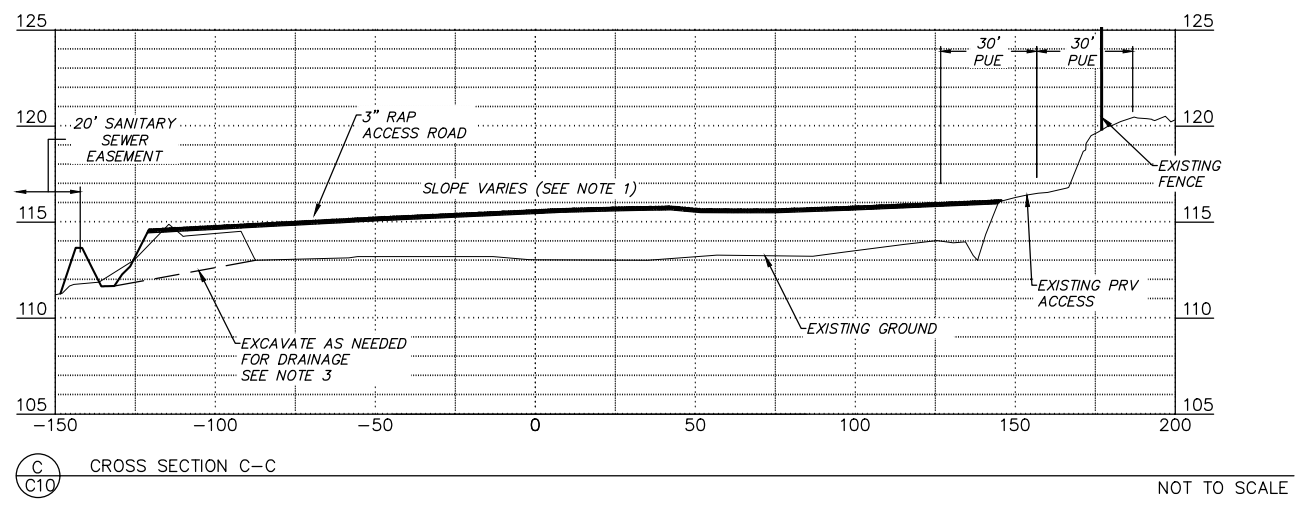
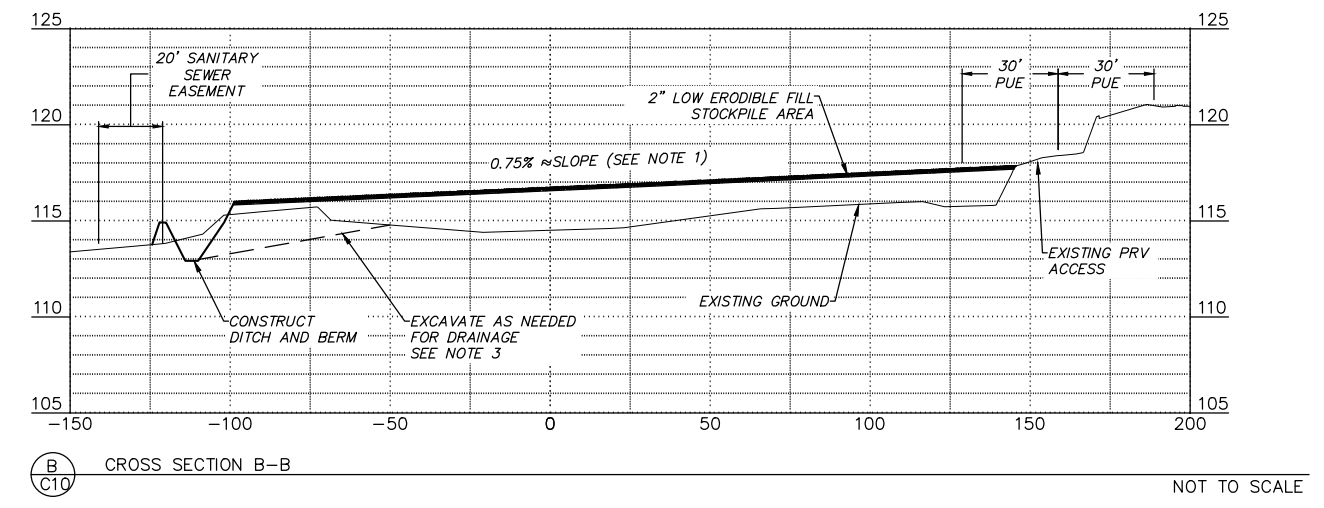
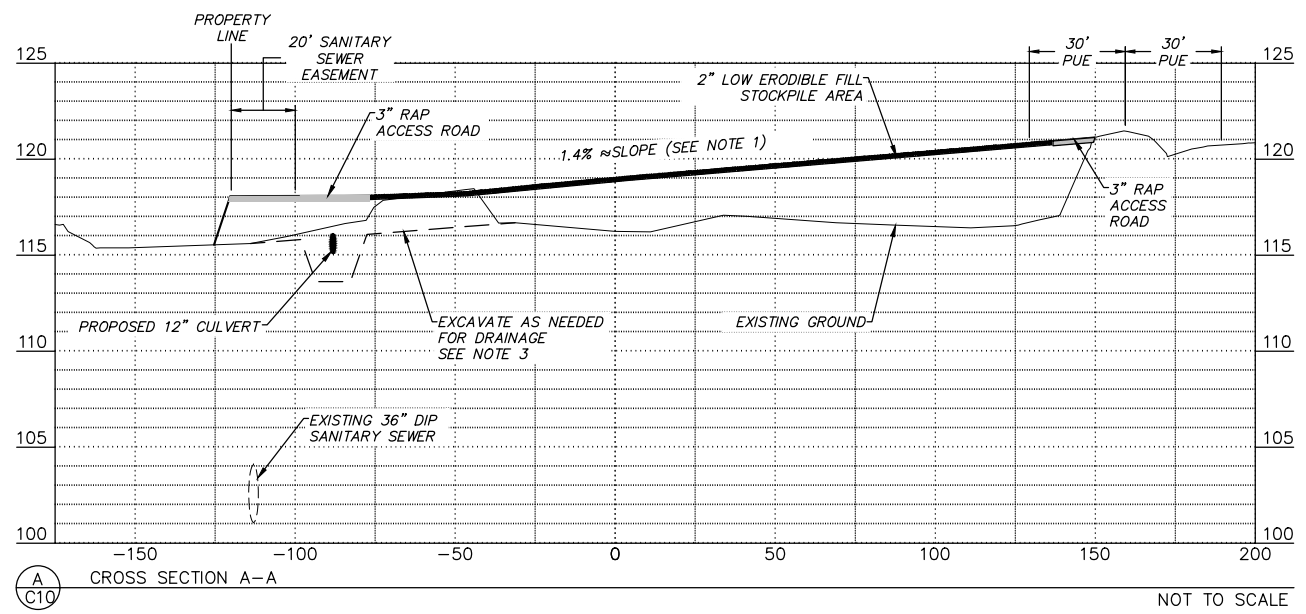
KING STREET CAMPUS EXPANSION

**SITE GRADING PLAN II
 SITE IMPROVEMENTS**

HORIZ SCALE: 1" = 30'
 VERT SCALE: N/A
 PROJ. ID.: WW 00007

DATE: 5/2020
 GRID: SW2431

SHEET C9 of C27



CONSTRUCTION NOTES:

1. SLOPES ARE APPROXIMATE AT THE CROSS SECTIONS SHOWN AND ARE FOR GENERAL INFORMATION. SEE GRADING PLAN FOR ELEVATIONS OF EDGE OF PAD AND INTERMEDIATE PAD ELEVATIONS.
2. SEE TYPICAL SECTIONS FOR EXCAVATION LIMITS.
3. REMOVE HIGH AREA TO ALLOW DRAINAGE TO FLOW TO NEW BERM/SWALE.

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VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

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 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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KING STREET CAMPUS EXPANSION

**CROSS SECTIONS
SITE IMPROVEMENTS**

HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

DATE: 5/2020 GRID: SW2431

PROJ. ID.: WW 00007

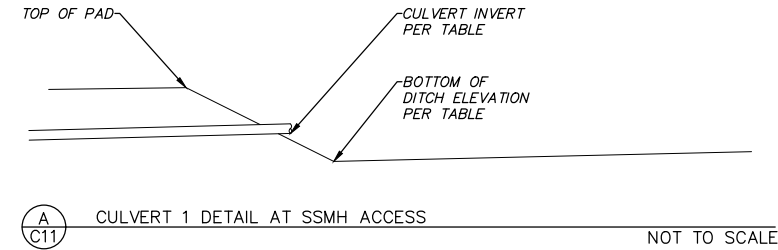
SHEET C10 of C27

GRADING POINT TABLE

Point Table				
Point #	Elevation	Northing	Easting	Description
1	122.17	2607002.93	1663520.73	MATCH EXISTING
2	121.57	2607002.93	1663474.68	EDGE OF RAP
3	120.35	2607091.58	1663457.97	MATCH EXISTING
4	120.94	2607037.60	1663440.69	EDGE OF RAP
5	120.64	2607016.75	1663412.69	EDGE OF RAP
6	118.98	2607014.26	1663282.55	EDGE OF RAP
7	118.42	2607041.62	1663252.09	EDGE OF RAP
8	118.50	2606998.46	1663240.84	EDGE OF RAP
9	118.32	2607054.98	1663250.91	EDGE OF RAP
10	118.14	2607053.66	1663235.97	EDGE OF RAP
11	118.14	2607049.92	1663192.62	EDGE OF RAP
12	117.64	2607149.57	1663184.22	EDGE OF RAP
13	117.73	2607155.02	1663243.97	EDGE OF RAP
14	117.64	2607153.28	1663227.18	EDGE OF RAP
15	115.40	2607368.31	1663208.20	TOP OF STOCKPILE
16	114.25	2607496.64	1663196.88	TOP OF STOCKPILE
17	114.92	2607618.57	1663186.12	TOP OF STOCKPILE
18	114.92	2607644.97	1663183.84	TOP OF BERM
19	115.79	2607618.85	1663284.22	TOP OF STOCKPILE
20	116.65	2607619.14	1663382.32	MATCH EXISTING
21	112.99	2607662.11	1663356.98	MATCH EXISTING
22	116.63	2607662.24	1663381.98	MATCH EXISTING

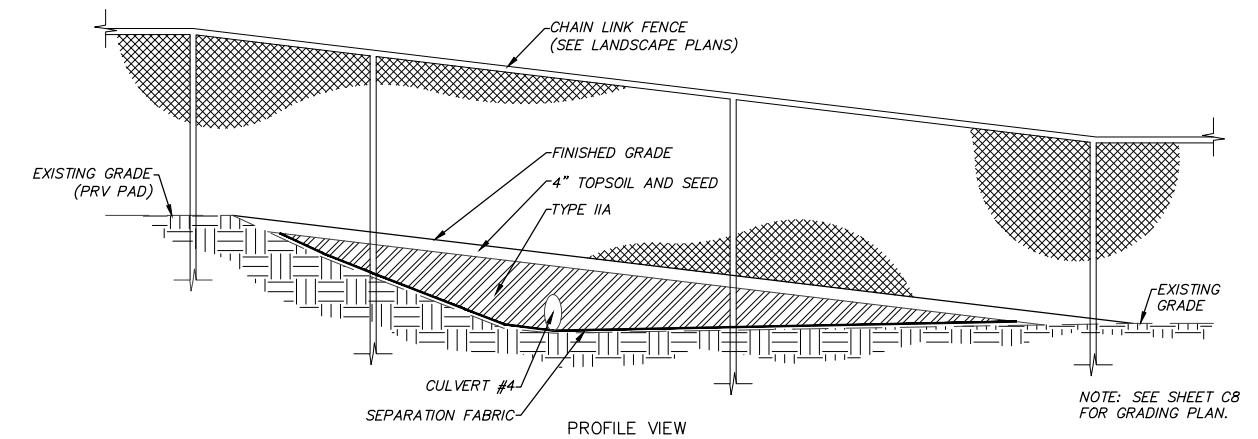
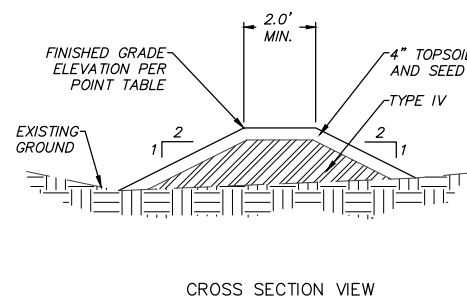
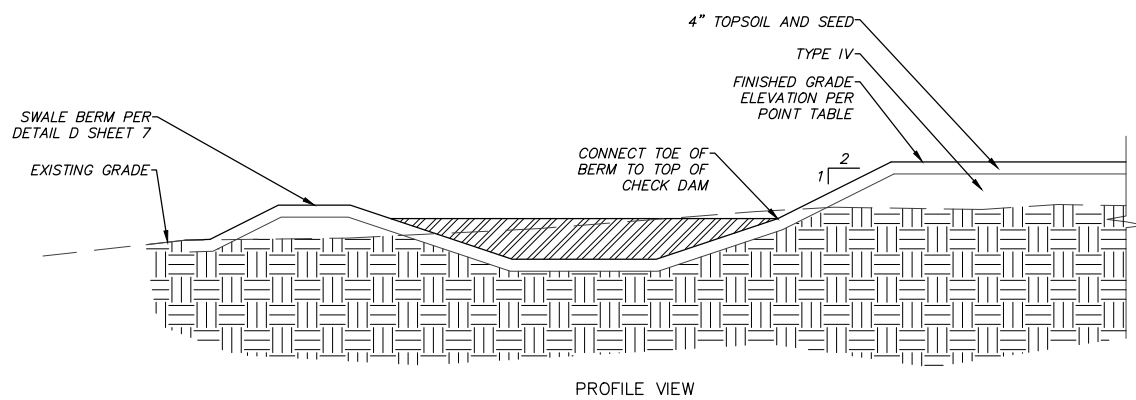
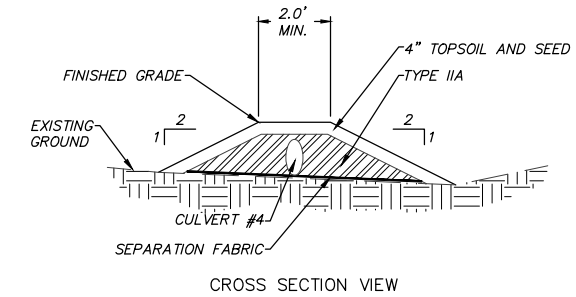
DITCH POINT TABLE

Point Table				
Point #	Elevation	Northing	Easting	Description
23	114.82	2606987.43	1663474.73	BOTTOM OF DITCH
24	113.59	2606986.61	1663229.06	BOTTOM OF DITCH
25	113.31	2607042.88	1663225.09	BOTTOM OF DITCH
26	113.67	2607163.60	1663212.66	BOTTOM OF SWALE
27	111.19	2607657.16	1663170.09	BOTTOM OF SWALE
28	110.89	2607682.00	1663115.52	BOTTOM OF DITCH
29	110.80	2607696.21	1663110.71	BOTTOM OF DITCH
30	111.53	2607653.48	1663198.84	BOTTOM OF DITCH



CULVERT PIPE TABLE

PIPE TABLE										
PIPE NAME	BEARING	PIPE	LENGTH	SLOPE	INVERT ELEV.	START NORTHING	START EASTING	INVERT ELEV	END NORTHING	END EASTING
CULVERT 1	N5° 51' 28"W	12" CPEP	123.75	0.58%	115.22'	2607041.87	1663225.17	114.50'	2607164.98	1663212.54
CULVERT 2	S36° 32' 18"W	12" CPEP	52.75	1.90%	119.00'	2607036.23	1663508.43	118.00'	2606993.84	1663477.02
CULVERT 4	S63° 38' 45"W	12" CPEP	26.00	2.69%	113.80'	2607668.35	1663385.50	113.10'	2607656.81	1663362.21



C11 BERM TO CHECK DAM CONNECTION DETAIL NOT TO SCALE

B11 PRV FENCE TRANSITION NOT TO SCALE

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VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATE	REV	DESCRIPTION
BASE					
TOPOGRAPHY					
PROFILE					
SANITARY SEWER					
STORM SEWER					
WATER					
GAS					
PLAN CHECK		REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____ This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed. CONTRACTOR: _____ BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ COMPANY: _____ DATE: _____

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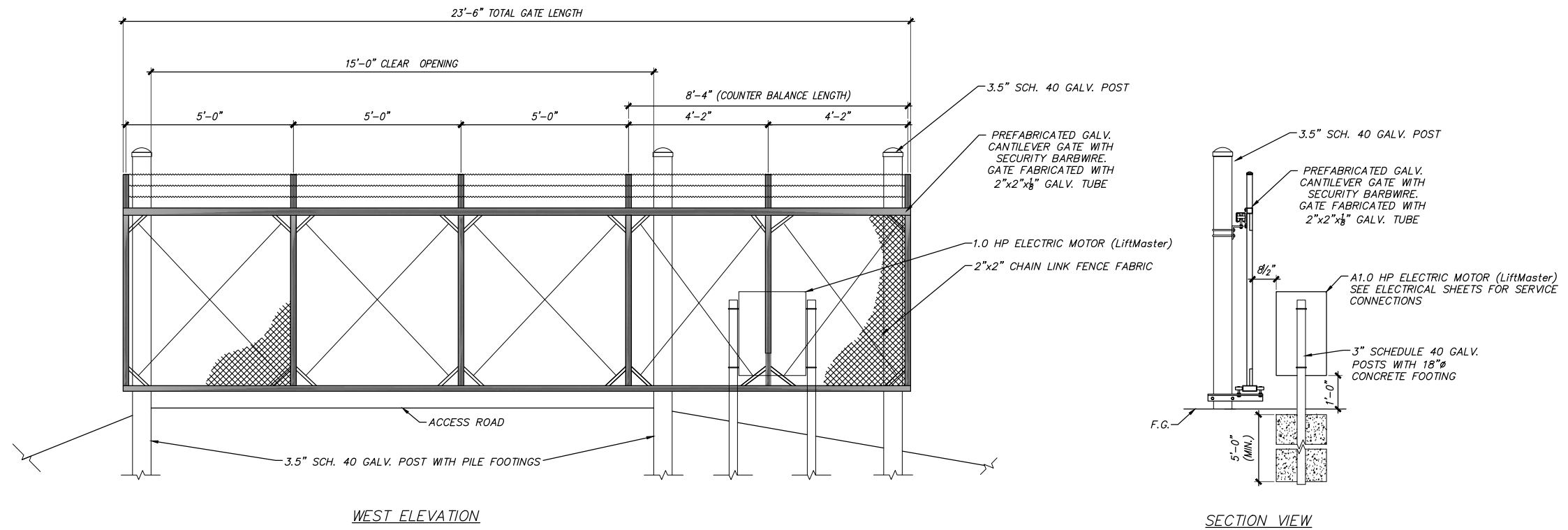
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION

SITE GRADING PLAN DETAILS
SITE IMPROVEMENTS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/2020
GRID: SW2431
PROJ. ID.: WW 00007

SHEET C11 of C27



— CANTILEVER SECURITY GATE NOT TO SCALE

2019/10/02 2:08 PM By: Jonathan Petrunik\KS-03.dwg Active\00007 King Street Cantilever Gate Detail.dwg

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		0 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE			TELEPHONE		
TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MIN. FINAL CHECK		
PLAN CHECK			REVISIONS		

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

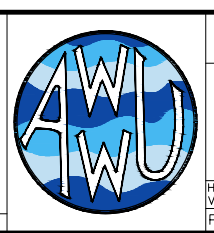
REUSE OF DOCUMENTS

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SEAL



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET CAMPUS EXPANSION

**CANTILEVER GATE DETAILS
 SITE IMPROVEMENTS**

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/2020
 GRID: SW2431
 PROJ. ID.: WW 00007

SHEET C12 of C27