



SAVEC Sitework 2026
Request for Quotes

Owner:

Southwest Alaska Vocational Education Center
123 Thelma Dr.
Naknek, AK 99633

Instructions to Bidders:

Complete this form and submit to amsenta21@gmail.com, terry@dolanmunicipal.llc and annette@savec.org. Bids are due by **12:00 PM May 22, 2026**.

The site for the project is currently undeveloped and is located on the west side of Lynx Lp. Rd. just south of the A-P Highway. General work description of the project includes establishing a short driveway to access the site from Lynx Loop Rd. to provide a driving surface to the water well installation point near the southeast corner of the lot. The aim is also to install the septic system and complete other civil site improvements as described. It is essential that the project be completed enough to expend at least \$121,000 by June 30th, 2026. Additional funding is available and some work may extend to the final completion date, however work items will be awarded depending on the availability of funds. All work awarded shall be completed no later than September 15th, 2026.

Work items are shown on the bid form with estimated quantities provided. Bidders are not required to bid on all items but are encouraged to bid on items that you are able to complete within the provided schedule. Only bid on items you can complete according to the provided schedule above.

Bid each work item as a single lump sum amount unless a unit price is requested on the bid form. If a unit price is requested, multiply the unit price by the quantity to show your bid price. The bid prices for each item will be used to determine which items are awarded. Items included in the project scope are shown on the plans provided, but all of the work shown on the plans is not necessarily included in the job. Complete the awarded items according to the layout and details provided in the plans. All work shall also be completed according to the specifications provided for any associated awarded work item. Only items shown on the bid form may be awarded but may or may not be included in an award. After bids are opened the awarded items will be determined by

the lowest responsive bid amount for each item and coordinated with bidders, or the owner may award the project based on the total bid price instead of by item if a bidder bids on all items or if sufficient funds are not available to award all items.

Survey layout points will be provided for all awarded work items.

Contractor is responsible for all applicable Federal, State, and Local environmental and construction safety requirements.

The work to be performed under this contract is subject to Section 7(b) of the Indian Self-Determination Act (25 U.S.C. 450e(b)). Section 7(b) requires that to the greatest extent feasible: (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations or Indian-owned economic enterprises. In connection with this contract, the contractor shall, to the greatest extent feasible, give preference in the award of any subcontracts to Indian-owned economic enterprises, and preferences and opportunities for training and employment to Indians.

Work Items

Item 1.1, Water Well Drilling, Casing, Pump and Accessories includes a 300 - foot estimated depth for bidding purposes only. The actual quantity drilled will be paid at the unit price awarded. This item includes ADEC permitting and approval.

Item 1.2 will be paid as a lump sum and includes trenching, backfill, pipe bedding, and 2" copper pipe for approx. 404 LF of installation.

Items 1.1 and 1.2 are estimated at a combined \$40,000.

Item 2, Clearing includes approx. 3 Acres of clearing. This item includes removing all trees and vegetation larger than shrubs to ground level but not removing overburden / grubbing activities. Removal and disposal off-site of all cleared vegetation is included. Mulching or chipping in place is allowed on approval. Do not expose or disturb erodible soils. Any erodible soils shall be seeded and stabilized at the contractor's expense.

Item 3, Structural Fill includes grubbing and excavation to prepare the subgrade for driveway / road access fill from Lynx Lp. Rd extending approximately 100 feet west. The item includes geotextile fabric and import and placement of structural fill. A minimum of 36" of structural fill is required for all driving surfaces. Fill shall be placed in 9" loose lifts and compacted to 95% maximum density.

Item 4, Septic System is estimated at \$115,000, is bid as a lump sum, and includes the following items:

- Procure, excavate, set and backfill two 3,000-gallon tanks
- Excavate and install for drain field, approx. 500 CY
- 60" Deep washed rock, approx. 833 CY
- Geotextile Fabric, approx. 4,500 SF
- 8 monitoring tubes
- 4 cleanouts
- 6" cast iron waste pipe and fittings, approx. 120 LF
- 6" perforated PVC pipe and fittings, approx. 400 LF
- 2" rigid insulation, approx. 480 SF
- Excavation, trenching, pipe bedding, marking tape, and backfill for all items
- System testing and ADEC permitting

Bid Form

Read the Work Item descriptions and other project description information carefully before completing the bid form.

Item #	Work Description	Unit	Quantity	Unit Price	Bid Price = QTY x Unit Price
1.1	Water Well – Drill and Install Casing, Pump and Accessories	LF	300	\$	\$
1.2	Trench and Install 2” Waterline – 404 LF	LS	1	N/A	\$
2	Clearing – 3 Acres	LS	1	N/A	\$
3	Structural Fill – 100 Ft Access Road	LS	1	N/A	\$
4	Septic System	LS	1	N/A	\$
Total Bid Price					\$

Company Representative Signature

Date

Company Name

TITLE SHEET & INDEX TOTAL SHEETS = 104 (INCLUDING COVER)

TITLE	ARCHITECTURAL	KITCHEN EQUIPMENT	MECHANICAL	ELECTRICAL
T0.0 TITLE SHEET AND INDEX	A1.1 ARCHITECTURAL SITE PLAN	K1.0 FOOD SERVICE PLAN	M0.1 MECHANICAL LEGEND AND ABBREVIATIONS	E0.1 LEGEND AND LIGHT FIXTURE SCHEDULE
T0.1 VICINITY MAP, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES	A2.1 OVERALL FLOOR PLAN	K2.0 FOOD SERVICE EQUIPMENT SCHEDULE	M0.2 MECHANICAL SCHEDULES	E0.2 ELECTRICAL SITE PLAN
T0.2 CODE ANALYSIS	A2.2 ENLARGED FLOOR PLAN	K3.0 FOOD SERVICE ELEVATIONS	M0.3 MECHANICAL SCHEDULES	E0.3 ELECTRICAL ROOF PLAN
T0.3 WALL TYPES	A2.3 ENLARGED FLOOR PLANS	K3.1 FOOD SERVICE ELEVATIONS	M1.1 MECHANICAL SITE PLAN	E0.4 POWER ONE-LINE DIAGRAM
CIVIL	A2.4 ENLARGED FLOOR PLANS	K3.2 FOOD SERVICE EQUIPMENT DETAILS	M1.2 MECHANICAL ROOF PLAN	E1.1 LIGHTING FLOOR PLAN
C0.1 CLEARING PLAN	A2.5 OVERALL ROOF PLAN	INTERIOR FF&E	M2.1 UNDERFLOOR SANITARY SEWER PLUMBING PLAN	E1.2 ELECTRICAL CRAWLSPACE PLAN
C1.0 SITE PLAN	A2.6 ENLARGED ROOF PLANS	I1.0 OVERALL FIRST FLOOR PLAN	M2.2 UNDERFLOOR DOMESTIC PLUMBING PLAN	E2.1 POWER FLOOR PLAN
C2.0 GRADING PLAN	A2.7 OVERALL REFLECTED CRAWLSPACE PLAN	I2.0 INSTRUCTOR DORMS FLOOR PLAN	M2.3 ABOVE FLOOR PLUMBING PLAN	E3.1 SIGNAL FLOOR PLAN
C3.0 TYPICAL SECTIONS	A3.0 EXTERIOR PERSPECTIVES	I3.0 DORMS FLOOR PLAN	M3.1 UNDERFLOOR HEATING PLAN	E4.1 ENLARGED POWER AND SIGNAL PLANS
C4.1 DOMESTIC WELL WATER SERVICE PLAN AND PROFILE	A3.1 EXTERIOR ELEVATIONS	I4.0 CORRIDOR FLOOR PLAN	M3.2 ABOVE FLOOR HEATING PLAN	E5.1 ELECTRICAL DETAILS
C4.2 SEWER SERVICE PLAN AND PROFILE	A3.2 INTERIOR ELEVATIONS	I5.0 COMMONS FLOOR PLAN	M4.1 UNDERFLOOR VENTILATION PLAN	E5.2 ELECTRICAL DETAILS
C5.1 CIVIL DETAILS	A3.3 INTERIOR ELEVATIONS	I6.0 RECEPTION FLOOR PLAN	M4.2 ABOVE FLOOR VENTILATION PLAN	E6.1 PANEL SCHEDULES
C5.2 CIVIL DETAILS	A3.4 INTERIOR ELEVATIONS	I7.0 OFFICES FLOOR PLAN	M5.1 ENLARGED KITCHEN PLUMBING PLANS	E6.2 PANEL SCHEDULES
	A3.5 INTERIOR ELEVATIONS	STRUCTURAL	M5.2 ENLARGED KITCHEN PLUMBING PLANS	
	A3.6 INTERIOR ELEVATIONS	S0.1 GENERAL NOTES	M5.3 ENLARGED MECHANICAL ROOM PLANS	
	A3.7 INTERIOR ELEVATIONS	S0.2 ABBREVIATIONS	M6.1 MECHANICAL SECTIONS	
	A4.1 BUILDING SECTIONS	S1.0 FOUNDATION PLAN	M6.2 MECHANICAL SECTIONS	
	A4.2 BUILDING SECTIONS	S1.1 FIRST FLOOR FRAMING PLAN	M7.1 MECHANICAL SCHEMATICS	
	A5.1 WALL SECTIONS	S1.2 LOW ROOF FRAMING PLAN	M7.2 MECHANICAL SCHEMATICS	
	A5.2 WALL SECTIONS	S1.3 HIGH ROOF FRAMING PLAN	M8.1 MECHANICAL DETAILS	
	A5.3 WALL SECTIONS	S2.0 ELEVATIONS	M8.2 MECHANICAL DETAILS	
	A5.4 WALL SECTIONS	S5.1 DETAILS		
	A5.5 WALL SECTIONS	S5.2 DETAILS		
	A6.1 OVERALL REFLECTED CEILING PLAN	S5.3 DETAILS		
	A6.2 ENLARGED REFLECTED CEILING PLAN	S5.4 DETAILS		
	A6.3 ENLARGED REFLECTED CEILING PLANS	S6.1 SCHEDULES		
	A7.1 OPENING SCHEDULE			
	A7.2 FINISH SCHEDULE			
	A7.3 FINISH MATERIAL SCHEDULES			
	A7.4 OVERALL FLOOR FINISH PLAN			
	A8.1 DETAILS			
	A8.2 DETAILS			
	A8.3 DETAILS			
	A8.4 DETAILS			

SAVEC - SOUTHWEST AK VOCATIONAL & ED. CENTER PHASE 1: DORMITORY & CULINARY ARTS BLDG NAKNEK, ALASKA



Architect:

Nvision Architecture, Inc.

1600 A Street, Ste. #300

Anchorage, Alaska 99501

Phone: 907-349-1425

Consultants:

Civil: R&M Engineering

Cost Estimating:HMS

Food Service: Arctic Food Service Design

Geotechnical:Northern Geotechnical Engineering

Structural: BBFM Engineers, Inc.

Interiors:AlignedAK, Inc.

Mechanical/Electrical: RSA Engineering, Inc.

Nvision Project No: 2520

**100% CD SUBMITTAL
02/20/2026**

ABBREVIATIONS

ADS	AUTOMATIC DOOR SWITCH	JT.	JOINT
&	AND	K.G.	KINDERGARTEN
@	ANGLE	KIT	KITCHEN
CL	CENTERLINE	K.O.	KNOCKOUT
Ø	DIAMETER	LVT	LAMINATE/LUXURY VINYL TILE
#	NUMBER	LKR	LOCKERS
%	PERCENT	LT.	LIGHT
PL	PLATE	M.H.	MANHOLE
A.F.F.	ABOVE FINISH FLOOR	MFR.	MANUFACTURER/MANUFACTURED
ARP.	ABUSE RESISTANT PAINT	M.O.	MASONRY OPENING
ARG.	ABUSE RESISTANT GYPSUM BOARD	MATL.	MATERIAL
ACT.	ACOUSTICAL CEILING TILE	MAX.	MAXIMUM
ACOUS.	ACOUSTICAL	MECH.	MECHANICAL
ADJ.	ADJUSTABLE	MED.	MEDICAL
A.W.V.	ALL WEATHER WOOD	M.D.O.	MEDIUM DENSITY OVERLAY PLYWOOD
ALUM.	ALUMINUM	MET.	METAL
ANCH.	ANCHOR BOLT	MCM.	METAL COMPOSITE MATERIAL
ANOD.	ANODIZED	ML.	MILLIMETER
APPROX.	APPROXIMATE/APPROXIMATELY	MIN.	MINIMUM OF MINUTE
ARCH.	ARCHITECTURAL	MTD.	MOUNTED
A.C.	ASPHALT CONCRETE	MR&WB.	MOISTURE RESISTANT GYPSUM WALL BOARD
BD.	BOARD	MP.	MOVABLE PARTITION
BM.	BEAM	MTL.	METAL
B.O.C.	BOTTOM OF CONCRETE CAP	NOM.	NOMINAL
B.O.D.	BOTTOM OF DECK	N.F.S.	NON-FROST SUSCEPTIBLE NORTH
B.O.S.	BOTTOM OF STRUCTURE	N.T.S.	NOT TO SCALE
BLKG.	BLOCKING	N.I.C.	NOT IN CONTRACT
BRD.	BOARD	NO.	NUMBER
B.O.	BOTTOM OF...	(N)	NEW
BLDG.	BUILDING	O.C.	ON CENTER
C.U.H.	CABINET UNIT HEATER	OPF.	OPENING
CAB.	CABINET	O.T.S.	OPEN TO STRUCTURE
CPT.	CARPET	OPF.	OPPOSITE
C.B.	CATCH BASIN OR CHALK/WHITE BRD	OSB.	ORIENTED STRAND BOARD
CLNG.	CEILING	O.D.	OUTSIDE DIAMETER
CEM.	CEMENT	O.H.	OVERHEAD
CB.	CEMENT BACKER BOARD	O.F./C.I.	OWNER FURNISHED/CONTRACTOR INSTALLED
CTR.	CENTER	FR.	PAIR
C.T.	CERAMIC TILE	P/PT.	PAINT
C.R.	CLASSROOM	PART.	PARTICLE
COL.	COLUMN	PTN.	PARTITION
C.M.U.	CONCRETE MASONRY UNIT	PLAS.	PLASTER
CONC.	CONCRETE	FLAM.	FLAME LAMINATE
COND.	CONDITION	PLYND.	PLYWOOD
CONN.	CONNECTION	POLY/PCB	POLYUREA/POLYASPARTIC (FLOORING, COVERED WALL BASE)
CONSTR.	CONSTRUCT/CONSTRUCTION	FOR	PORCELAIN TILE
C.J.	CONSTRUCTION JOINT	P.F.O.	PREFAB PANEL OPENING
CONT.	CONTINUOUS	FT.	PRESSURE-TREATED POUND
C.F./O.I.	CONTRACTOR FURNISHED/OWNER INSTALLED	QT.	QUARRY TILE
C.S.	CORNER GUARD	R.M.G.	RADIANT MANIFOLD CABINET
CORR.	CORRIDOR	R.W.L.	RAIN WATER LEADER
CB.	COVERED WALL BASE	RWD.	RECYCLED WOOD
CTSK.	COUNTERSINK	REF.	REFERENCE
D.	DEEP/DEPTH	REFR.	REFRIGERATOR
DEMO.	DEMOLITION	REINF.	REINFORCING
DET.	DETAIL	(R)	RELOCATED
DIAM.	DIAMETER	REQD.	REQUIRED
DIM.	DIMENSION	RF.	RESILIENT FLOORING
DISP.	DISPENSER	R/A	RETURN AIR
DBL.	DOUBLE	RSV.	RIGID SHEET VINYL
DN.	DOWN	R.D.	ROOF DRAIN
D.S.	DOWN SPOUT	R.M.	ROOM
DYGS.	DRAWINGS	R.O.	ROUGH OPENING
D.F.	DRINKING FOUNTAIN	R.O.H.	ROUGH OVERHANG
EA.	EACH	RB.	RUBBER WALL BASE
E.	EAST	SFV.	SAFETY FLOORING VINYL IV/ WELDED SEAMS
ELEC.	ELECTRIC/ELECTRICAL	SC	SCALE
ELEV.	ELEVATION	SCHED.	SCHEDULE
ELEV.	ELEVATOR	SLR	SEALER
EMERG.	EMERGENCY	SECT.	SECTION
EN.	ENAMEL	SHT.	SHEET
ENCL.	ENCLOSURE	SIM.	SIMILAR
EPX.	EPOXY (FLOORING, WALL BASE)	S.O.C.	SOLID CORE
EQ.	EQUAL	S.	SOUTH
EQUIP.	EQUIPMENT	SPEC.	TECHNICAL SPECIFICATIONS
ETC.	ETCETERAS	SQ.	SQUARE
E.D.	EXHAUST DIFFUSER	STAN.	STAINED WOOD FINISH
(E)	EXISTING	SS	STAINLESS STEEL
EXIST.	EXISTING	STD.	STANDARD
E.J.	EXPANSION JOINT	STL.	STEEL
EXP.	EXPANSION	STOR.	STORAGE
EXT.	EXTERIOR	STRUCT.	STRUCTURAL
F.O.S.	FACE OF STUDS	S/A	SUPPLY AIR
F.O.C.	FACE OF CONCRETE	SUSP.	SUSPENDED
F.O.F.	FACE OF FINISH	SAC.	SUSPENDED ACOUSTICAL CEILING
F.O.	FACE OF...	SV	SHEET VINYL
F.F.	FACTORY FINISH	SYM.	SYMMETRICAL
FRP.	FIBERGLASS REINFORCED PANEL	T.B.	TACK BOARD
FIN. FLR.	FINISH FLOOR	TAC.	TACKLE WALL COVERING
FIN.	FINISH	TEL.	TELEPHONE
FRPLY.	FIRE RESISTANT PLYWOOD	TEMP.	TEMPERED
F.E.C.	FIRE EXTINGUISHER (CABINET)	THK.	THICK
F.A.	FIRE ALARM	TP	TOILET JURNAL PARTITION
FRPF.	FIREPROOFING	T&G	TONGUE & GROOVE
FLASH.	FLASHING	T.C.	TOP OF CURVE
F.B.	FLAT BAR	T.P.	TOP OF PAVEMENT
FLR.	FLOOR	T.O.	TOP OF
F.D.	FLOOR DRAIN	T.O.B.	TOP OF BEAM
FAM.	FLUID APPLIED WATERPROOFING	T.O.C.	TOP OF CONCRETE
FLUOR.	FLUORESCENT	T.O.D.	TOP OF DECK
FT.	FOOT/FEET	T.O.P.	TOP OF PARAPET
FTG.	FOOTING	T.O.S.	TOP OF STEEL
FDN.	FOUNDATION	T.O.SLAB	TOP OF SLAB
FR.	FRAME	T.S.	TUBE STEEL
FRP.	FROST PROTECTED SHALLOW FOUNDATION	TYP.	TYPICAL
FS.	FLOOR SINK	U.	UNDERLAYMENT
FURR.	FURRING	U.N.O.	UNLESS NOTED OTHERWISE
F.	FLOORING	V.B.	VAPOR BARRIER
GALV.	GALVANIZED	V.R.	VAPOR RETARDER
GA.	GAUGE	VERT.	VERTICAL
GFRB.	GLASS FIBER REINFORCED GYPSUM BOARD	VEST.	VESTIBULE
G.L.B.	GLUED LAMINATED BEAM	V.M.C.	VINYL WALL COVERING
G.B.	GRAB BAR	VGT	VINYL COMPOSITION TILE
GR.	GRADE	WASCOT.	WAINSCOT
G.S.	GUTTER SLOPE	W.M.	WALK-OFF MAT
G.W.B.	GYPSUM WALL BOARD	WS.	WALL SHADES
GYP.	GYPSUM	WR.	WATER RESISTANT
GYP. BD.	GYPSUM BOARD	WC.	WATER CLOSET
H.C.	HANDICAP/HANDICAPPED OR HOLLOW CORE	WP.	WATER PROOF
HDWR.	HARDWARE	WT.	WEIGHT
HDWD.	HARDWOOD	W.W.F.	WELDED WIRE FABRIC
HT.	HEIGHT	W.	WEST
H.	HIGH	W.F.	WIDE FLANGE
HPDE.	HIGH-DENSITY POLYETHYLENE	W.G.	WIRE GLASS
HPDL.	HIGH PRESSURE DECORATIVE LAMINATE	W.	WITH
H.M.	HOLLOW METAL	W/O	WITHOUT
H.B.	HOSE BIB	W.D.	WOOD
HR.	HOUR		
INCAND.	INCANDESCENT		
I.D.	INSIDE DIAMETER		
INSUL.	INSULATION		
IHM.	INSULATED HOLLOW METAL		
INT.	INTERIOR		
IP.	INTERIOR PAINT		
JAN.	JANITOR		

MATERIAL SYMBOLS

	EARTH		STEEL
	BACKFILL		ALUMINUM
	CONCRETE		CERAMIC TILE
	CONCRETE MASONRY UNITS		GYPSUM BOARD
	DIMENSIONAL LUMBER		BATT INSULATION
	WOOD BLOCKING		RIGID INSULATION
	PLYWOOD		VAPOR RETARDER
	FINISH WOOD		WEATHER BARRIER

DRAWING SYMBOLS

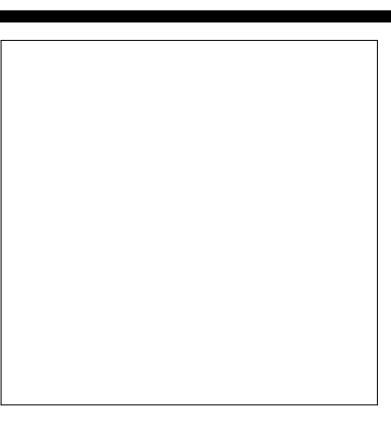
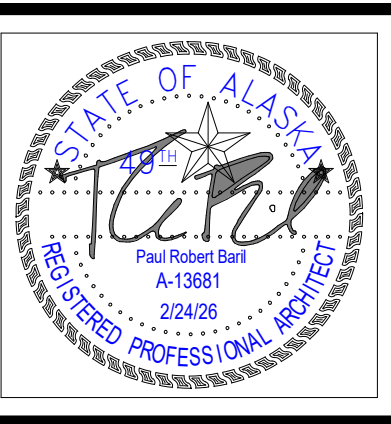
	DRAWING NUMBER SHEET WHERE DRAWN		BUILDING SECTION REFERENCE
	DRAWING NUMBER SHEET WHERE DRAWN		WALL SECTION REFERENCE
	DRAWING NUMBER SHEET WHERE DRAWN		DETAIL REFERENCE
	DRAWING NUMBER SHEET WHERE DRAWN		DETAIL REFERENCE
	SHADING INDICATES DIRECTION OF VIEW DRAWING NUMBER SHEET WHERE DRAWN		SHADING INDICATES DIRECTION OF VIEW DRAWING NUMBER SHEET WHERE DRAWN
	GRID LINE		UPPER WALL CONSTRUCTION LOWER WALL CONSTRUCTION
	DOOR NUMBER		DIMENSIONS TO FACE OF STUD UNLESS NOTED OTHERWISE
	WINDOW TYPE (REF. OPENING SCHEDULE)		DIMENSIONS TO CENTER LINE OF GRID IN SOME LOCATIONS
	PHOTO (REF. PHOTO DETAIL SHEET)		MATCH LINE

GENERAL NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO READ AND BE FAMILIAR WITH THE COMPLETE SET OF NEW DRAWINGS AND SPECIFICATIONS FOR THIS NEW BUILDING PROJECT AS WELL AS THE EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY WORK. ALL SUBCONTRACTORS AND TRADES ARE TO BE FAMILIAR WITH ALL THE OTHER TRADES' SPECIFICATIONS AND DRAWINGS IN THE PROJECT, VERIFY ALL NOTES, DIMENSIONS, SEQUENCES OF WORK, AND VARIOUS CONSTRAINTS IN PERFORMING THE WORK, AND NOTIFY THE ARCHITECT/PROJECT MANAGER OF ANY CONFLICT(S).
- ALL WORK, INCLUDING PLUMBING, ELECTRICAL, AND STRUCTURAL, TO CONFORM TO CURRENT BUILDING CODES AND LOCAL ORDINANCES.
- ALL ELECTRICAL SYSTEMS, PANELS, WIRING, RECEPTACLES, LIGHTING, SWITCHES AND TRIM TO BE COMPLETE AND INSTALLED IN ACCORDANCE WITH LOCAL CODES, STANDARDS AND PRACTICES, INCLUDING ADA.
- PROVIDE SAFETY GLAZING FOR ALL WINDOWS WITHIN 24" ARC OF THE VERTICAL EDGE OF A DOOR IN CLOSED POSITION PER IBC 2406.4.
- CONTRACTOR IS TO PROVIDE AND INSTALL SOLID BLOCKING FOR ALL EQUIPMENT, FURNISHINGS, ACCESSORIES, ETC. AND TO COORDINATE WITH ALL OTHER TRADES FOR INSTALLATION.
- CONTRACTOR TO COORDINATE ALL NEW DOOR HARDWARE FUNCTIONS & KEYING WITH OWNER.
- ALL DIMENSIONS SHOWN SHALL BE FIELD-VERIFIED AND COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL, AS REQUIRED.
- WHERE FIRE-RATED ASSEMBLIES OCCUR, PROVIDE CONT. FIRE CAULK/SEALANT AT ALL PENETRATIONS, AS REQD, PER UL-LISTED THROUGH PENETRATION FIRESTOP SYSTEMS.

ALTERNATES

- REPLACE ALL FIBERGLASS WINDOWS WITH VINYL WINDOWS
- REPLACE CELLULAR PVC LAP SIDING WITH VERTICAL CORRUGATED METAL SIDING. REPLACE PHENOLIC RESIN PANELS WITH HORIZONTAL BOX RIB METAL SIDING.



**SAVEC - SOUTHWEST AK VOCATIONAL & ED. CENTER
PHASE 1: DORMITORY & CULINARY ARTS BLDG
NAKNEK, ALASKA**

VICINITY MAP, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

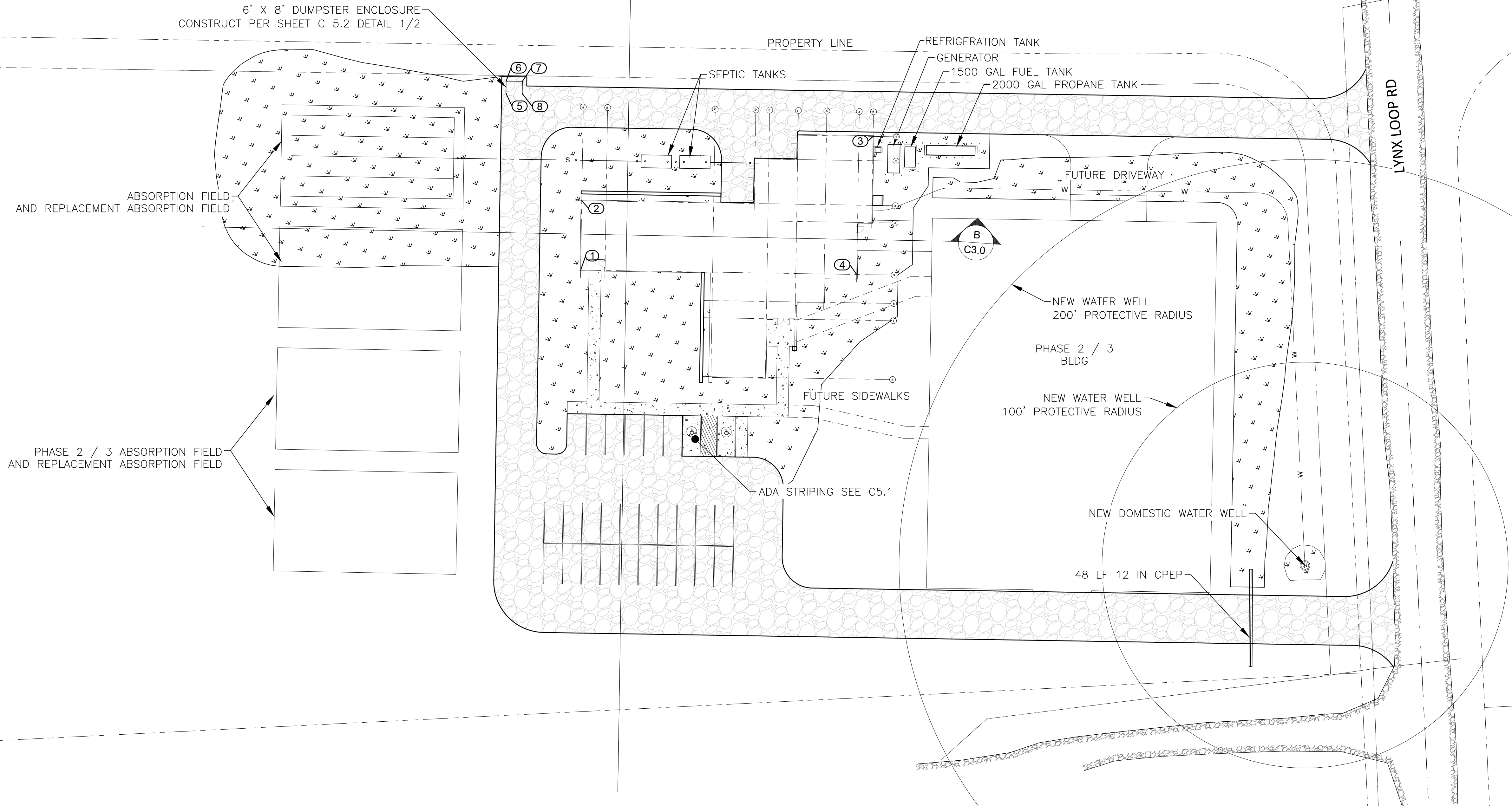
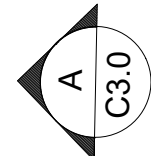
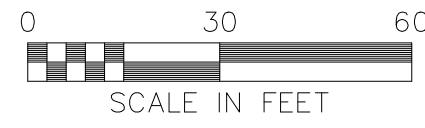
WHEN PRINTED ON 11x17, DRAWING SHOULD BE CONSIDERED HALF-SIZE

Drawing Date:	02/20/26
Drawn By:	AD, ED
Checked By:	WB, PB
NVA Job No.:	2520
Revisions:	

T0.1

100% CD SUBMITTAL

ALASKA PENINSULA HWY (KING SALMON - NAKNEK HIGHWAY PER PLAT NO. 82-11)



LEGEND:

- CONCRETE SIDEWALK
- GRAVEL
- GRASS
- WATER LINE
- SEWER LINE

SITE COORDINATES			
POINT #	NORTHING	EASTING	DESC.
1	1731142.62	1855568.82	GRID A-5
2	1731173.35	1855583.75	GRID A-3
3	1731141.43	1855727.23	GRID K-1
4	1731083.18	1855691.14	GRID K-5

SITE COORDINATES			
POINT #	NORTHING	EASTING	DESC.
5	1731237.14	1855572.29	DUMPSTER ENCLOSURE
6	1731242.53	1855574.91	DUMPSTER ENCLOSURE
7	1731239.04	1855582.10	DUMPSTER ENCLOSURE
8	1731233.64	1855579.48	DUMPSTER ENCLOSURE

R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
907 522 1707 voice
907 522 3404 fax
www.rmconsult.com
AECC111

STATE OF ALASKA
49 TH
Chris Black
No. CE 12147
2/20/26
REGISTERED PROFESSIONAL ENGINEER

Avision
ARCHITECTURE
1600 A St., Suite #300 Anchorage, Alaska 99501
907-349-1425

SAVEC - SOUTHWEST AK VOCATIONAL & ED. CENTER
PHASE 1: DORMITORY & CULINARY ARTS BLDG
NAKNEK, ALASKA

SITE PLAN

WHEN PRINTED ON 11x17, DRAWING SHOULD BE CONSIDERED HALF-SIZE

Drawing Date:	2/20/26
Drawn By:	SCG
Checked By:	CWB
Job No.:	2520
Revisions:	

100% CD SUBMITTAL

C1.0

Point Table				
Point #	Elevation	Northing	Easting	Description
1	143.35	1730795.92	1855849.13	GRAVEL EDGE
2	0.00	1730791.74	1855824.48	RP
3	143.66	1730814.23	1855835.41	GRAVEL EDGE
4	140.38	1730988.45	1855476.84	GRAVEL EDGE
5	0.00	1731010.94	1855487.77	RP
6	140.46	1731021.86	1855465.28	GRAVEL EDGE
7	143.00	1731241.47	1855571.98	GRAVEL EDGE
8	142.97	1731245.49	1855573.94	GRAVEL EDGE
9	143.09	1731240.10	1855585.03	GRAVEL EDGE
10	143.13	1731236.08	1855583.08	GRAVEL EDGE
11	150.37	1731065.49	1855934.17	GRAVEL EDGE
12	150.82	1731045.49	1855929.57	GRAVEL EDGE
13	145.90	1731159.24	1855695.45	GRAVEL EDGE
14	0.00	1731158.34	1855695.02	RP
15	145.91	1731158.78	1855694.12	GRAVEL EDGE
16	145.99	1731147.30	1855688.54	GRAVEL EDGE
17	145.93	1731156.47	1855669.64	GRAVEL EDGE
18	145.99	1731136.69	1855660.03	GRAVEL EDGE
19	145.99	1731143.73	1855645.54	GRAVEL EDGE
20	145.53	1731162.41	1855654.62	GRAVEL EDGE
21	0.00	1731168.96	1855641.13	RP
22	144.93	1731182.45	1855647.68	GRAVEL EDGE
23	144.60	1731188.78	1855634.68	GRAVEL EDGE
24	143.60	1731208.19	1855594.72	GRAVEL EDGE
25	0.00	1731194.70	1855588.17	RP
26	143.11	1731201.25	1855574.68	GRAVEL EDGE
27	143.05	1731182.24	1855565.44	GRAVEL EDGE
28	142.75	1731074.28	1855512.99	GRAVEL EDGE
29	0.00	1731072.10	1855517.48	RP
30	142.97	1731067.60	1855515.30	GRAVEL EDGE
31	143.11	1731065.48	1855519.67	GRAVEL EDGE
32	0.00	1731069.98	1855521.85	RP
33	143.32	1731067.79	1855526.35	GRAVEL EDGE
34	143.74	1731081.27	1855532.90	GRAVEL EDGE
35	144.37	1731056.44	1855584.01	GRAVEL EDGE
36	144.77	1731042.39	1855612.96	GRAVEL EDGE
37	144.57	1731024.39	1855604.21	GRAVEL EDGE
38	144.55	1731023.08	1855606.91	GRAVEL EDGE
39	0.00	1731009.59	1855600.35	RP
40	144.21	1731003.04	1855613.85	GRAVEL EDGE
41	143.34	1730972.46	1855598.99	GRAVEL EDGE
42	0.00	1730965.90	1855612.48	RP
43	142.75	1730952.41	1855605.93	GRAVEL EDGE
44	144.41	1730836.26	1855844.99	GRAVEL EDGE
45	0.00	1730860.43	1855852.45	RP
46	144.81	1730843.54	1855870.88	GRAVEL EDGE
167	150.72	1731068.96	1855961.32	GRAVEL EDGE
168	151.23	1731025.54	1855943.51	GRAVEL EDGE
169	0.00	1731087.98	1855945.10	RP
170	0.00	1731023.01	1855918.64	RP

Point Table				
Point #	Elevation	Northing	Easting	Description
47	143.86	1731086.68	1855535.53	WALKWAY
48	143.98	1731082.49	1855544.16	WALKWAY
49	145.92	1731140.51	1855572.35	WALKWAY
50	145.92	1731141.15	1855571.01	WALKWAY
51	146.50	1731146.29	1855573.50	WALKWAY
52	146.50	1731142.34	1855581.63	WALKWAY
53	145.92	1731137.21	1855579.13	WALKWAY
54	145.92	1731137.88	1855577.74	WALKWAY
55	143.98	1731079.86	1855549.55	WALKWAY
56	145.06	1731041.72	1855628.07	WALKWAY
57	145.92	1731067.67	1855640.68	WALKWAY
58	145.92	1731069.95	1855636.00	WALKWAY
59	146.50	1731081.77	1855641.75	WALKWAY
60	145.91	1731075.32	1855655.03	WALKWAY
61	145.89	1731063.47	1855649.32	WALKWAY
62	146.00	1731065.05	1855646.08	WALKWAY
63	144.94	1731033.70	1855630.84	WALKWAY

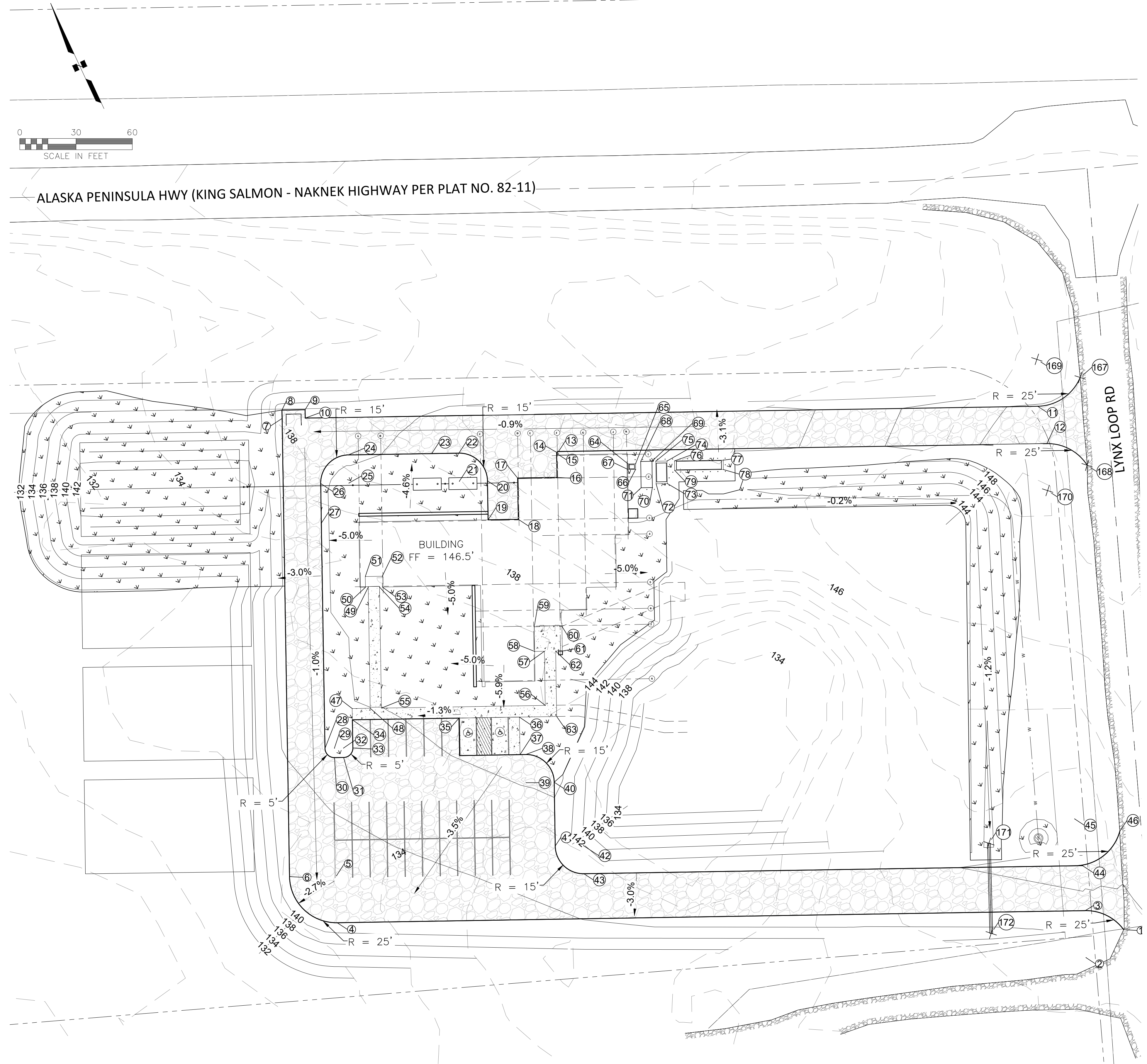
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Point #	Elevation	Northing	Easting	Description
64	145.91	1731136.63	1855725.53	REFRIGERATION TANK
65	145.97	1731134.88	1855729.12	REFRIGERATION TANK
66	145.74	1731132.18	1855727.81	REFRIGERATION TANK
67	145.91	1731133.93	1855724.21	REFRIGERATION TANK

Point Table				
Point #	Elevation	Northing	Easting	Description
68	145.70	1731134.74	1855732.15	GENERATOR PAD
69	145.70	1731132.12	1855737.55	GENERATOR PAD
70	145.70	1731119.53	1855731.43	GENERATOR PAD
71	145.70	1731122.15	1855726.04	GENERATOR PAD

Point Table				
Point #	Elevation	Northing	Easting	Description
72	145.65	1731120.45	1855734.10	FUEL TANK
73	145.59	1731117.83	1855739.50	FUEL TANK
74	145.59	1731128.62	1855744.75	FUEL TANK
75	145.65	1731131.25	1855739.35	FUEL TANK

Point Table				
Point #	Elevation	Northing	Easting	Description
76	145.70	1731126.88	1855748.34	PROPANE TANK
77	145.70	1731115.51	1855771.73	PROPANE TANK
78	145.65	1731111.02	1855769.54	PROPANE TANK
79	145.65	1731122.38	1855746.16	PROPANE TANK

Point Table				
Point #	Elevation	Northing	Easting	Description
171	141.28	1730869.41	1855805.86	INVERT
172	141.00	1730826.05	1855785.29	INVERT



- GRADING NOTES:**
1. A GEOTECHNICAL REPORT PREPARED BY PND ENGINEERS INC. DATED MAY 23, 2025
 2. UNSUITABLE MATERIAL INCLUDING FROST-SUSCEPTIBLE AND ORGANIC MATERIALS SHALL BE REMOVED FROM UNDER PAVEMENTS AND BELOW FOUNDATIONS.
 3. FINISHED GRADE OUTSIDE OF BUILDING IS 6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
 4. SOIL FILL SHALL BE PLACED IN LIFTS UP TO 9 INCHES LOOSE WHERE HEAVY COMPACTION EQUIPMENT IS USED.



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PHASE 1: DORMITORY & CULINARY ARTS BLDG
NAKNEK, ALASKA**

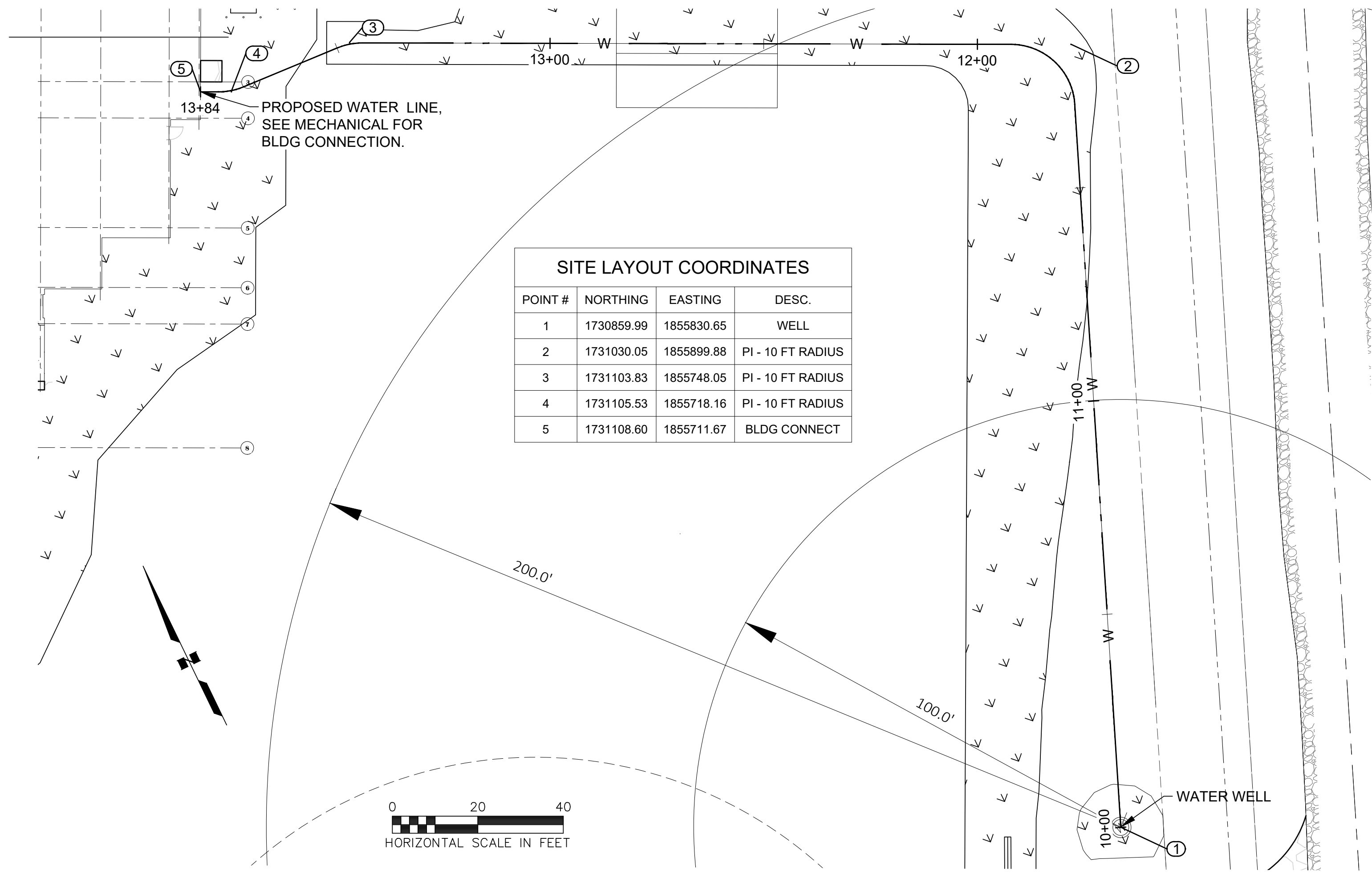
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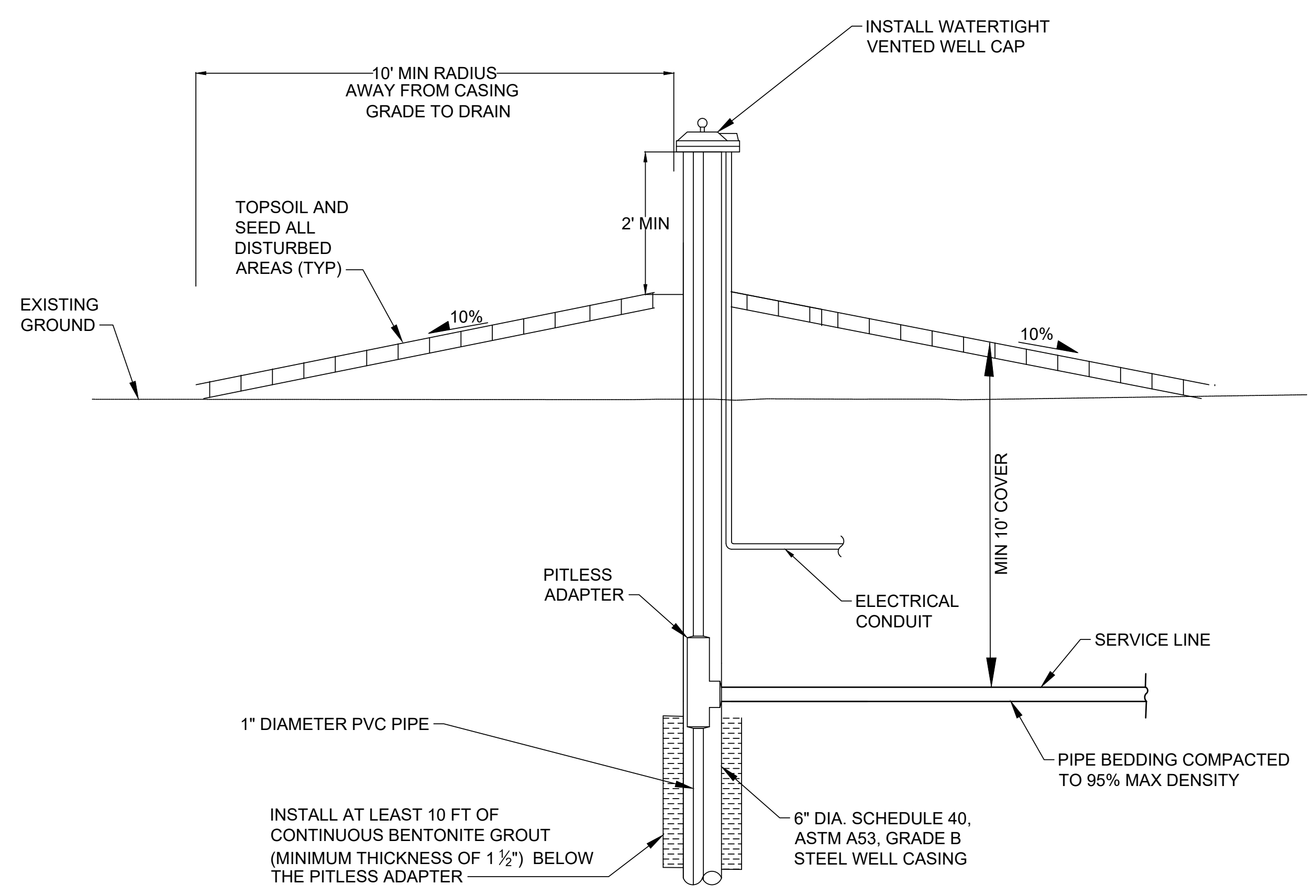
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Checked By: CWB
Job No.: 2520
Revisions:

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C2.0

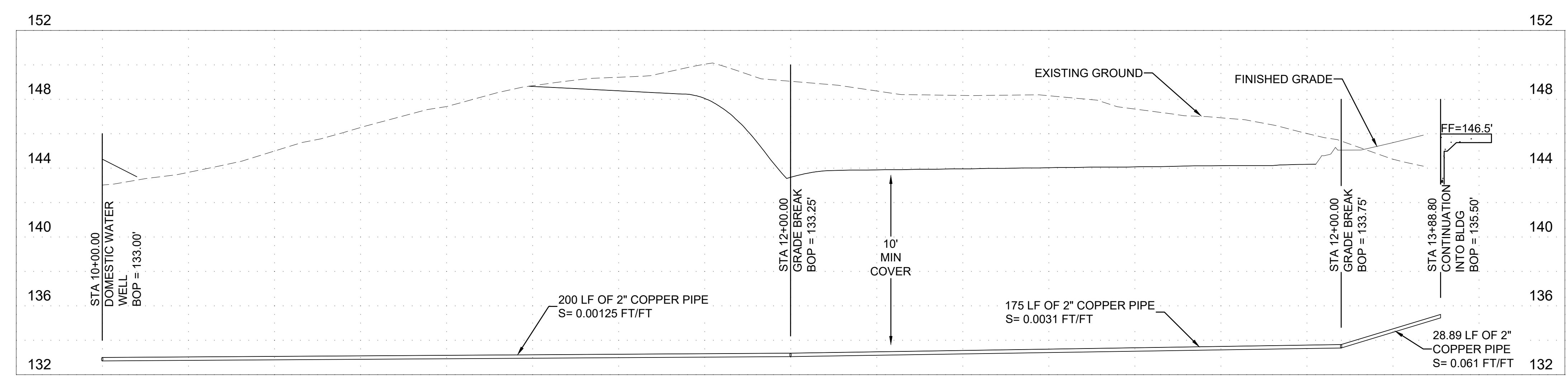


1 WATER SERVICE PLAN
C4.1 SCALE = 1:20

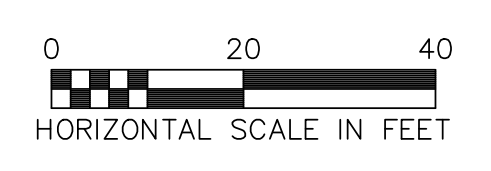


3 WELL DETAIL
C4.1

- NOTES:
1. LOCATION OF ALL UTILITIES ARE APPROXIMATE AND DEPTHS ARE UNKNOWN. OBTAIN UTILITY FIELD LOCATES PRIOR TO EXCAVATION OR GRADING ACTIVITIES. RECORD THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES ENCOUNTERED AND CONSTRUCTED ON CONTRACTOR RECORD DRAWINGS.
 2. SEE MECHANICAL SHEETS FOR CONTINUATION OF UTILITIES INTO BUILDING.



2 WATER SERVICE PROFILE
C4.1



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No. CE 12147
2/20/26
REGISTERED PROFESSIONAL ENGINEER

AVISION
ARCHITECTURE
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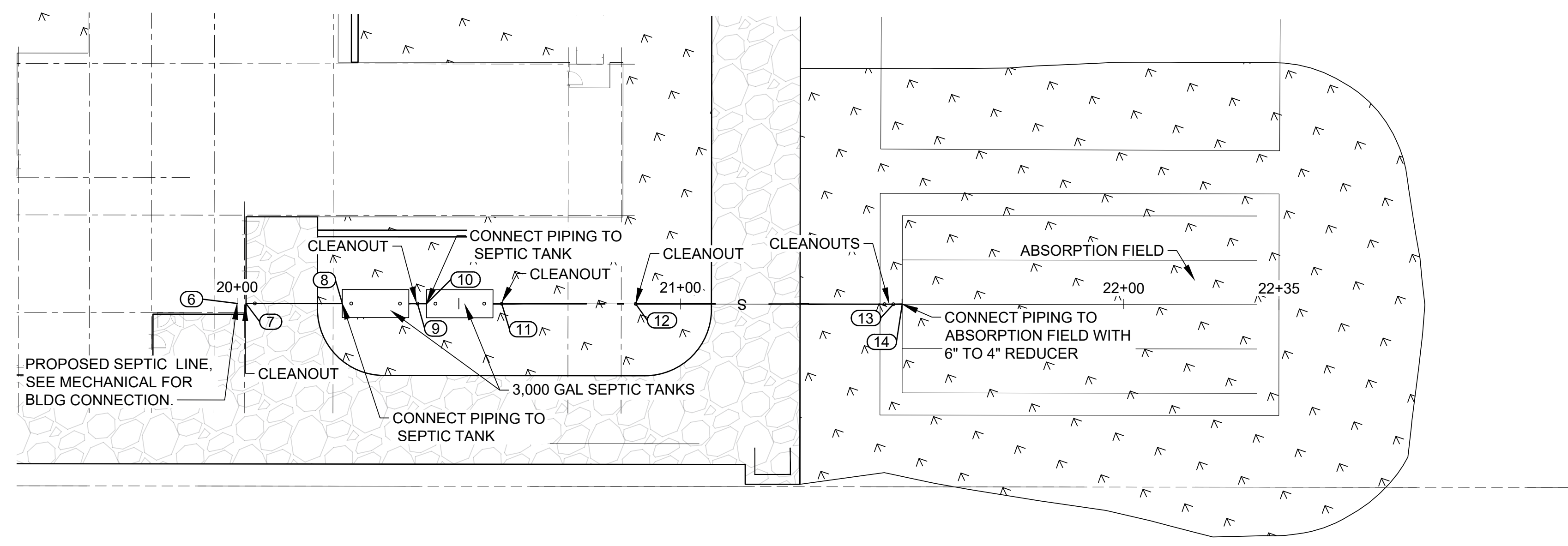
DOMESTIC WELL WATER SERVICE PLAN & PROFILE

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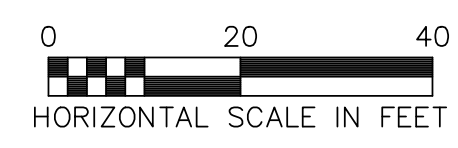
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Revisions:	

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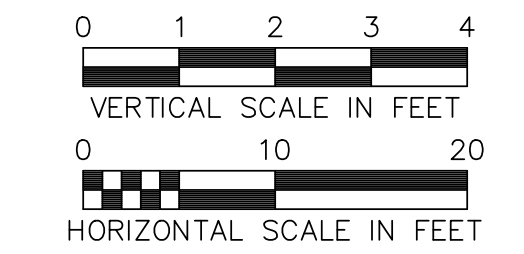
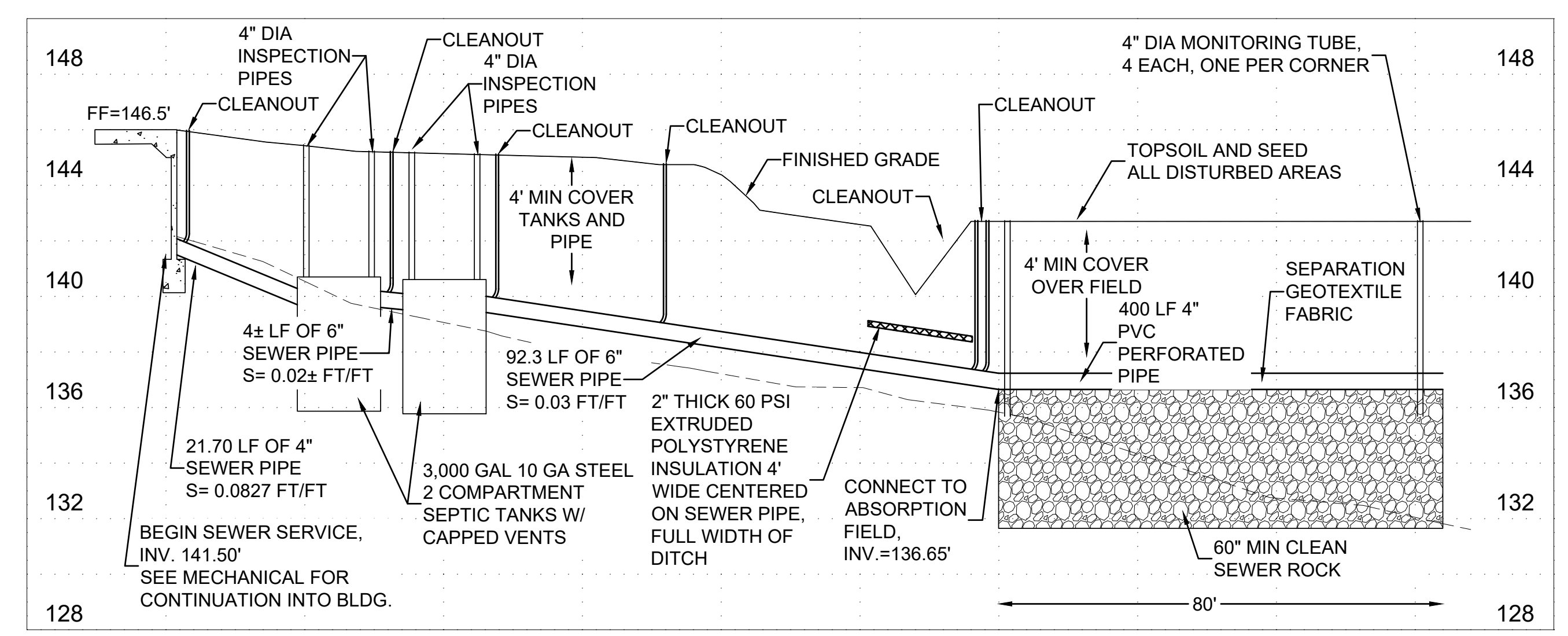
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SITE LAYOUT COORDINATES			
POINT #	NORTHING	EASTING	DESC.
6	1731153.40	1855670.39	BLDG CONNECT
7	1731154.27	1855668.59	CLEANOUT
8	1731163.77	1855649.05	SEPTIC TANK
9	1731171.19	1855633.78	CLEANOUT
10	1731172.07	1855631.96	SEPTIC TANK
11	1731179.49	1855616.69	CLEANOUT
12	1731192.70	1855589.52	CLEANOUT
13	1731218.11	1855537.23	CLEANOUTS
14	1731218.99	1855535.43	CONNECT



1 SEWER SERVICE PLAN
 C4.2



2 SEWER SERVICE PROFILE
 C4.2

NOTES:

- SEE MECHANICAL SHEETS FOR CONTINUATION OF UTILITIES INTO BUILDING.
- CONSTRUCT SEPTIC SYSTEM IN ACCORDANCE WITH 18 AAC 72 STANDARDS.
- ABSORPTION FIELD SIZED USING ASSUMED PERCOLATION RATE OF 60 MINUTES PER INCH. A PERCOLATION RATE TEST IS REQUIRED FOR FINAL SIZING AND PRIOR TO APPLICATION FOR DEC PERMIT.
- CONSTRUCT SOIL ABSORPTION BED:
 - EXCAVATE UNSUITABLE SOILS AND BACKFILL WITH SOILS SUITABLE FOR SOIL ABSORPTION FIELD..
 - PROVIDE 3/4" TO 1 1/2" SCREENED ROCK FOR SEWER ROCK.
 - USE TYPAR 3401, MIRAFI 140N, OR EQUIVALENT FOR FABRIC.
 - PLACE BOTTOM OF DRAIN ROCK A MIN 4' ABOVE GROUND WATER AND 6' ABOVE IMPERMEABLE SOILS
 - GRADE TO DIRECT SURFACE DRAINAGE AWAY FROM SYSTEM
 - USE 1 POUND OF SEED PER 250 SF OF AREA

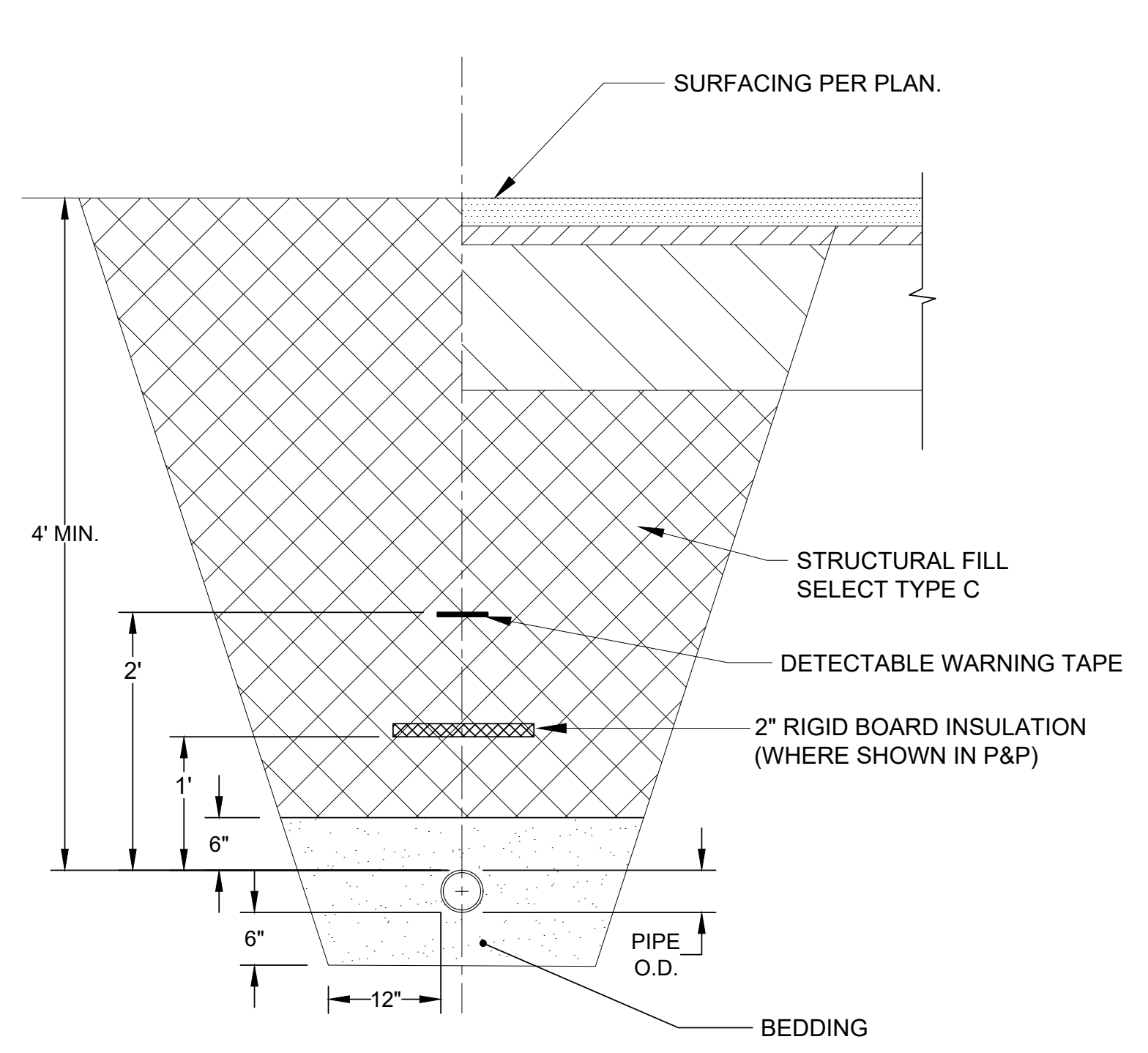
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 NAKNEK, ALASKA**
 SEWER SERVICE PLAN & PROFILE

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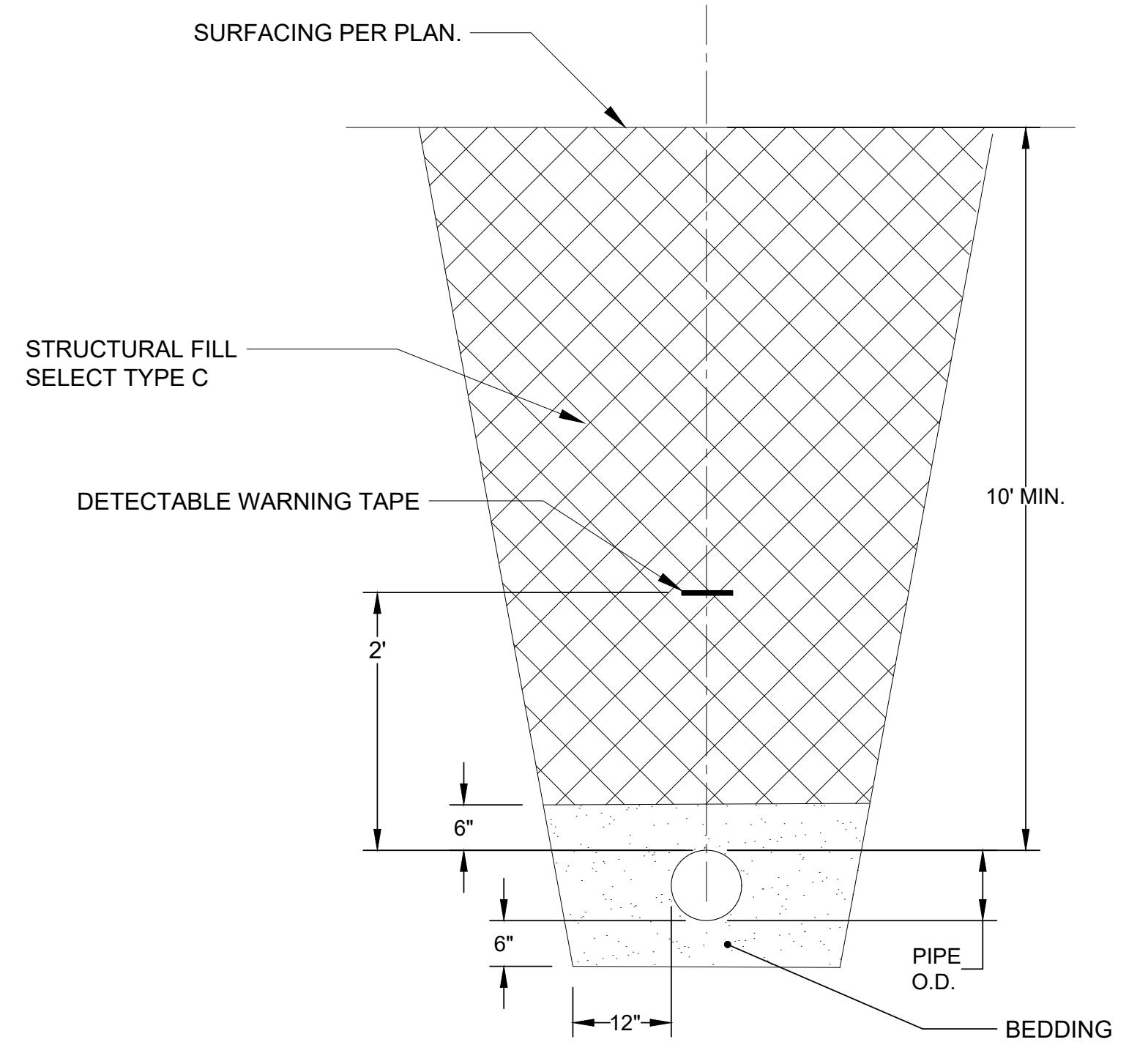
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Drawn By:	SCG
Checked By:	CWB
Job No.:	2520
Revisions:	

C4.2

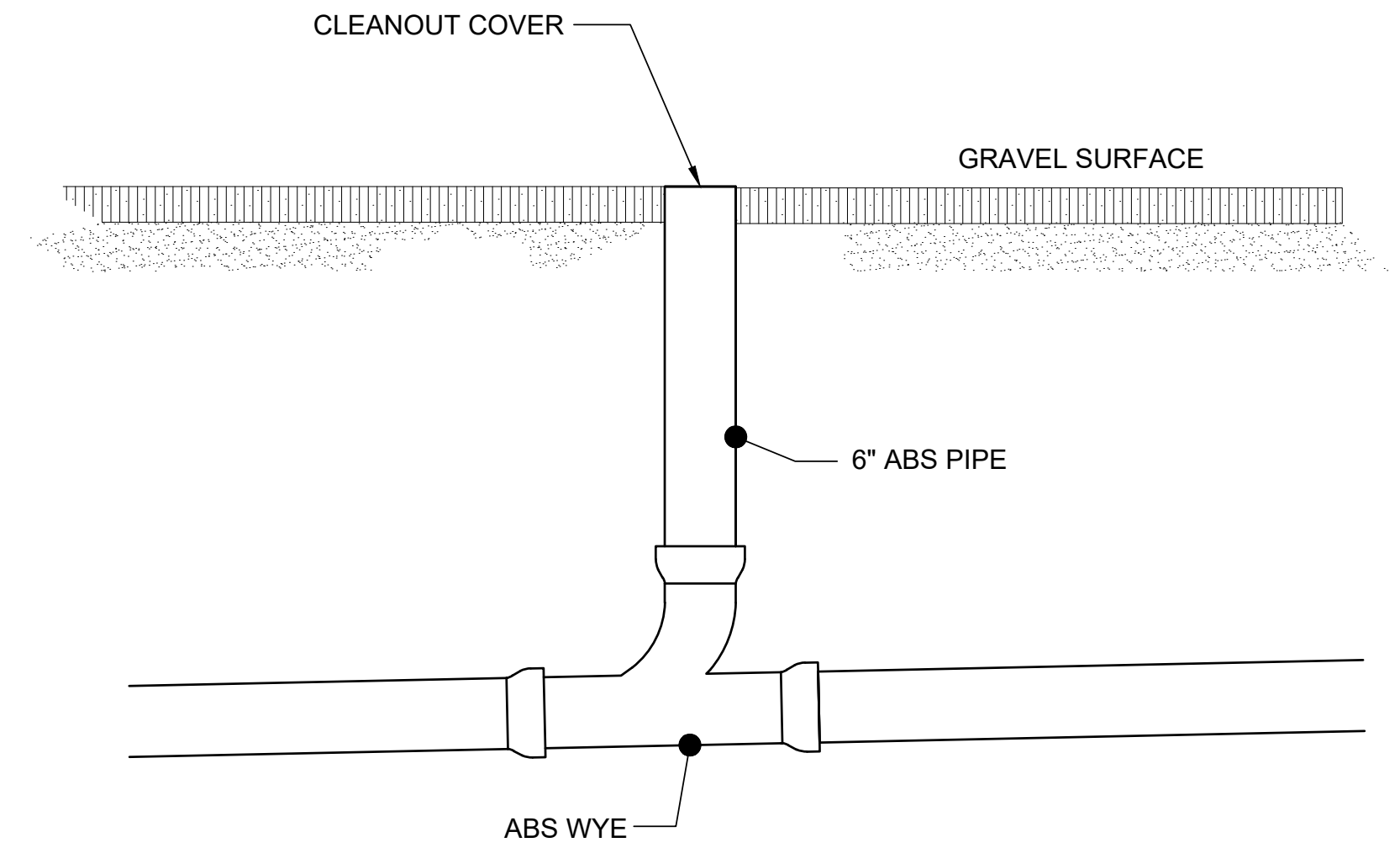
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1 SEWER LINE TRENCH
 C5.1

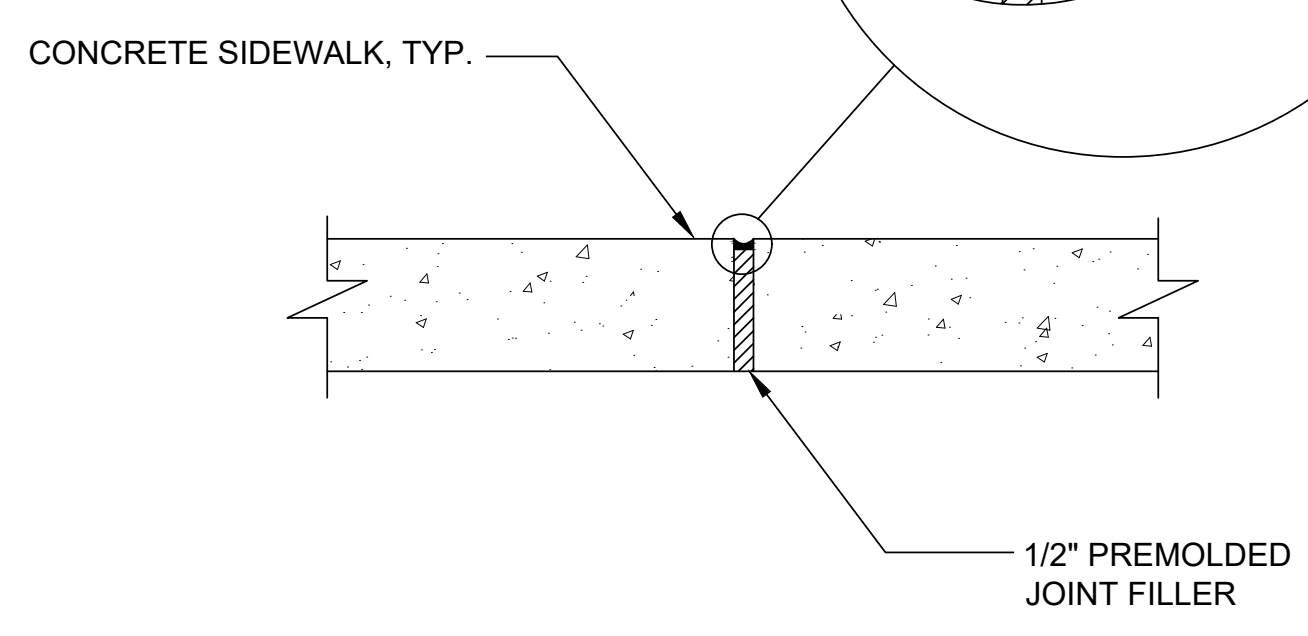
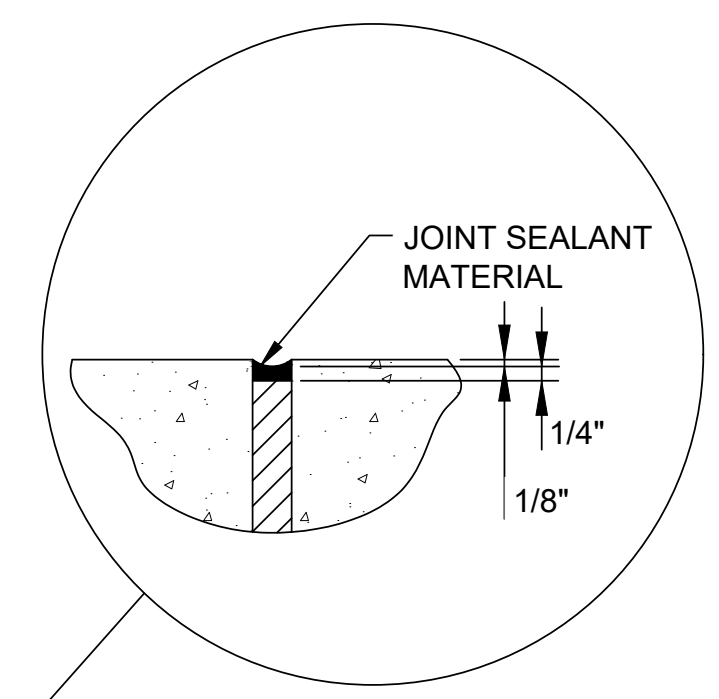


2 WATER LINE TRENCH
 C5.1



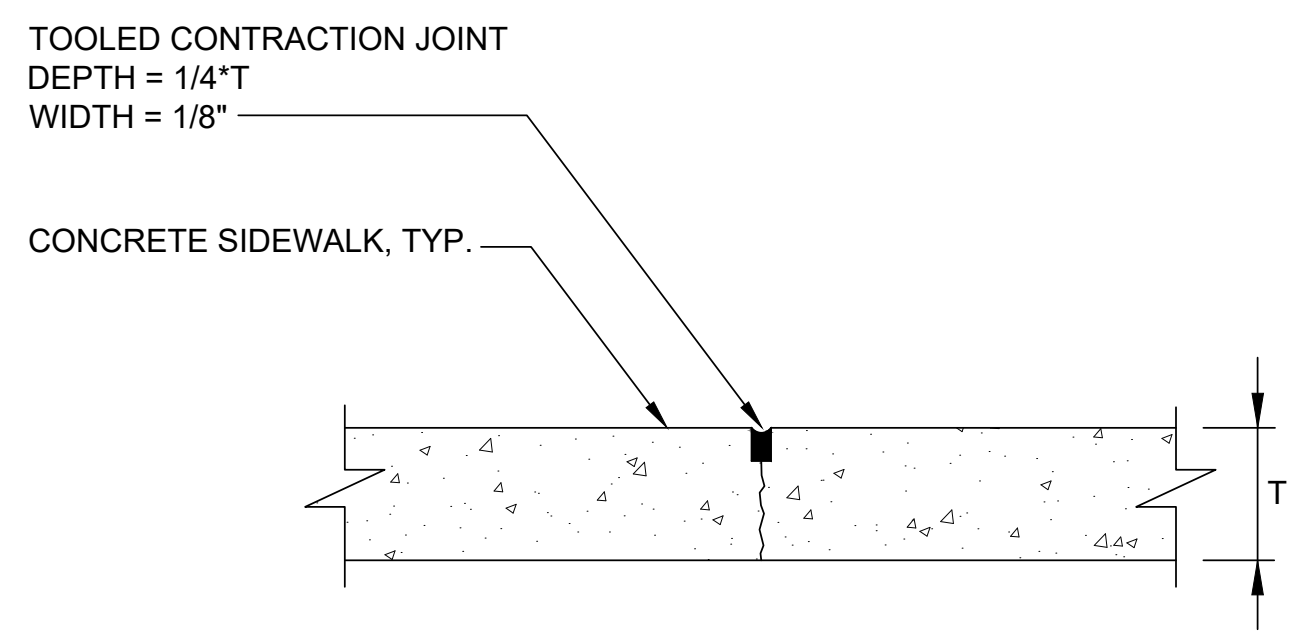
3 SEWER SERVICE CLEANOUT
 C5.1

EXPANSION JOINT NOTE:
 INSTALL EXPANSION JOINTS AT STRUCTURES ABUTTING CONCRETE, AROUND STRUCTURES THAT PROJECT THROUGH CONCRETE, AND AS SHOWN ON THE LANDSCAPE PLANS. INSTALL EXPANSION JOINTS NO GREATER THAN 50 FEET APART.



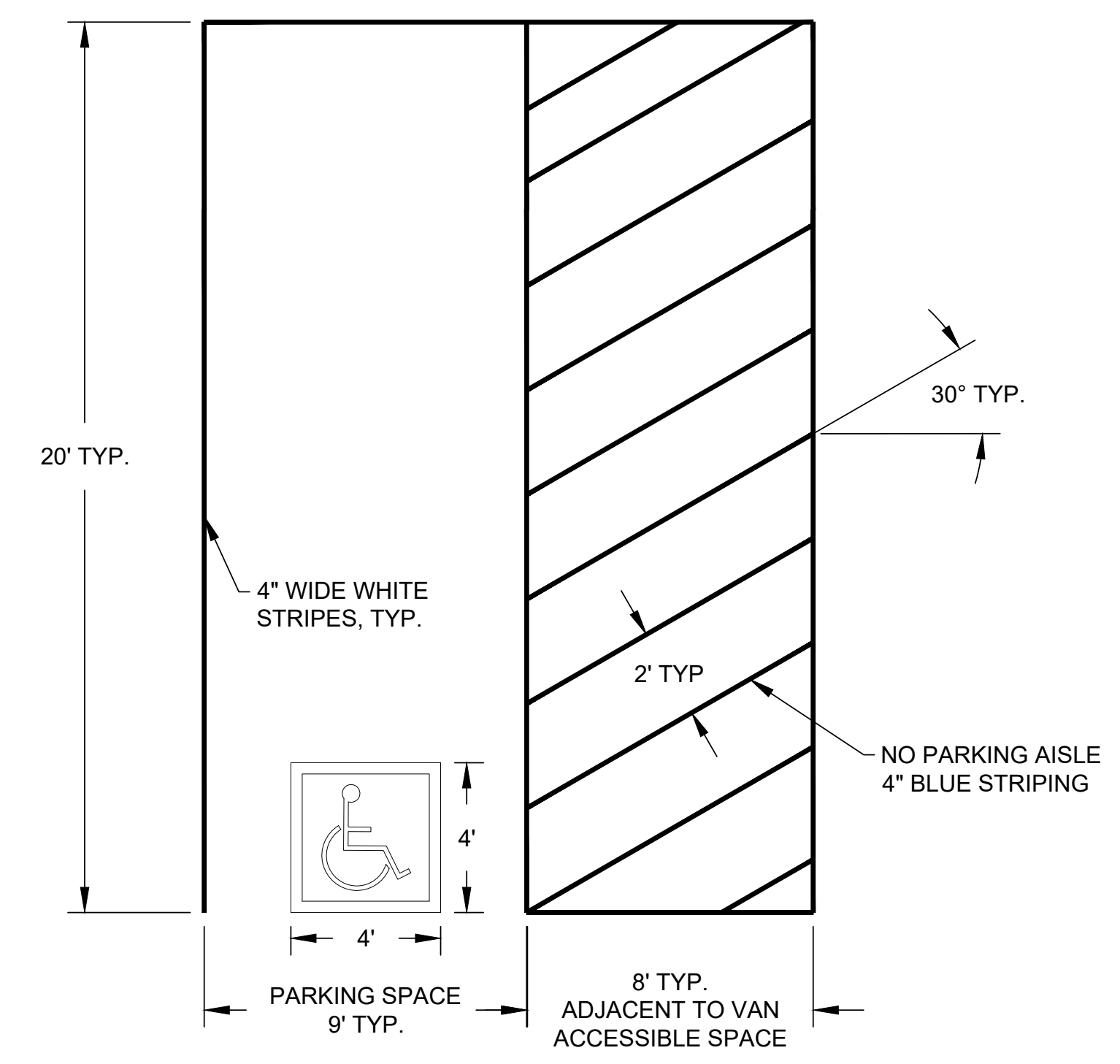
4 EXPANSION JOINT
 C5.1

CONTRACTION JOINT NOTE:
 INSTALL CONTRACTION JOINTS AT LOCATIONS AND IN PATTERNS AS SHOWN IN THE LANDSCAPE PLANS. UNLESS OTHERWISE NOTED, CONTRACTION JOINTS SHALL OCCUR AT DISTANCES EQUAL TO THE WIDTH OF SIDEWALKS.



5 CONTRACTION JOINT
 C5.1

STRIPING NOTES:
 1. ACCESSIBLE PARKING SHALL BE IN ACCORDANCE WITH DISABILITY ACT ACCESSIBILITY GUIDELINES. BLUE BACKGROUND, WHITE BORDER AND SYMBOL.



6 ADA STRIPING
 C5.1

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 PHASE 1: DORMITORY & CULINARY ARTS BLDG
 NAKNEK, ALASKA**
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Job No.:	2520
Revisions:	

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C5.1

SECTION 311000 – SITE CLEARING

PART 1 - GENERAL

1.01 SCOPE

- A. This work consists of clearing, grubbing, removing and disposing of all vegetation and debris within designated areas of the project, and the preservation from injury or defacement of all vegetation and objects not designated for Clearing.

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.01 LIMITS OF WORK

- A. The area of clearing shall be staked out by the Contractor and approved by the Owner's Representative prior to commencing clearing.

3.02 CLEARING

- A. Cut and dispose of all trees, shrubs, grass, brush, bushes and debris from all areas designated for clearing.
- B. All clearing shall be done by conventional hand clearing methods. Dozers or other large mechanical equipment shall not be used.

3.03 DISPOSAL

- A. Dispose of all vegetation and debris removed by clearing using approved methods and at approved locations. Comply with all applicable laws and ordinances regarding disposal.

END OF SECTION 311000

SECTION 312300 – EXCAVATION AND FILL

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. The work includes the performance of all operations pertaining to excavation; loading, hauling, and placement of excavated or other materials as fill, backfill or base course; finish grading for parking lots, access roads, driveways, building pads, furnishing materials, constructing soil slopes; and Soil Quality Control testing.

1.02 SUBMITTALS

- A. Submit the following data that verify the products fully conform to the specifications and plans before delivery of the product:
1. One sieve analysis (ASTM D 422) for each type of fill product
 2. One modified proctor (ASTM D 1557 and ASTM D 4718) per material source of Select Material Type A.
 3. One modified proctor (ASTM D 1557 and ASTM D 4718) per material source of Leveling Course.
 4. Existing Subgrade: One inspection for loose or deleterious soil is required of existing soils under planned foundations.
 5. Fill Compaction: One test for each lift layer placed and not less than one test per 2,500 square feet at locations designated by the Engineer/Architect.
- B. Submit a Soil Testing - Quality Control Plan for Owner Approval which provides:
1. Independent Testing Agency Qualifications.
 2. Qualifications of Contractor Personnel engaged in on-site soil compaction testing.
 3. Sieve analysis sampling location and depth record keeping methodology.
 4. Compaction Testing location and depth record keeping methodology.

PART 2 - PRODUCTS

2.01 FILL

- A. Selected Material Type shall consist of earth, sand, gravel, fractured rock, or combination thereof with 100% by weight passing the 6 inch sieve, and less than 6% by weight passing the No. 200 sieve, per AASHTO T88-00, and containing no muck, peat, frozen materials, roots, sod, or other deleterious materials, and shall be compacted to the density required by the Specifications.

EXCAVATION AND FILL
DIVISION 31
SECTION 312300

- B. Leveling Course is primarily used as a base course under asphalt pavements. Leveling Course shall conform to the aggregate quality and gradation D-1 in Section 703 of Alaska DOT&PF Standard Specifications for Highway Construction (2017). Leveling Course shall be completely unfrozen and drained at the time it is used.

PART 3 - EXECUTION

3.01 EXCAVATION

- A. Prior to excavation the surface shall be cleared of all timber, brush and all debris.
- B. The Contractor shall perform all excavation of every description and whatever substance encountered including rock and permafrost. Excavation will be to the extent indicated on the drawings, and as staked in the field. All excavated materials suitable for use as Select Material Type A shall be stockpiled for use during construction. Stockpiled material shall be placed in an orderly manner and placed at a distance from the excavation section which conforms to all State and /or Federal Safety codes.
- C. Do not place multiple layers of frozen fill materials.
- D. Examine site surfaces and elevations, existing site plans and details on Drawings for defects that will adversely affect the work.

3.02 EMBANKMENT

- A. This section applies to subgrade preparation and placement of Select Material Type A.
- B. Subgrade Preparation
 - 1. All ground under fill shall be prepared as detailed on the plans, as specified in this section, or as directed by the Engineer.
 - 2. Do not allow water to accumulate in excavations. Remove and convey standing water from excavations by pumping if necessary.
 - 3. Where unsuitable fill soils (loose, compressible, organic, or debris) are encountered beneath footings or structural sections, the unsuitable fill soils should be over-excavated and the unsuitable material should be removed and replaced with compacted Selected Material Type A at no additional cost to the owner.
 - 4. Do not disturb bottom of excavation which receives structure foundation. Smooth and compact as required to lines and grades indicated.
 - 5. Scarify and moisture-condition all subgrade to receive fill as necessary to ensure proper bond and compaction.
 - 6. Prior to fill or footing placement proof-roll excavated subgrades to identify any soft or loose zones. Over-excavate and replace with compacted subgrade fill until firm, unyielding subgrade is produced.

7. The prepared subgrade shall be inspected and approved by the Engineer prior to placing Select Material Type A.

C. Soil Fill (Select Material Type A) Placement

1. Each soil layer shall be formed using Select Material Type A.
2. The soil fill shall be placed in layers up to 9-inches maximum thickness, loose.
 - a. Each lift of soil fill shall be spread in a uniform thickness before compacting.
 - b. The soil fill shall be placed, spread, and compacted in such a manner to minimize the development of wrinkles and/or displacement of the Separation Geotextile.
3. Backfill within 18 inches of the footing wall should be placed in layers not exceeding 6 inches and densely compacted with hand-operated equipment. Heavy equipment should not be used to compact backfill in this area, as such equipment operated near the footing wall could increase lateral earth pressures and possibly damage the footing wall.
4. The soil fill shall be compacted to at least 95 percent of the maximum density determined in accordance with ASTM D 1557. Route compaction equipment uniformly over the entire surface of each layer of soil fill.
5. Backfill around foundations and pipes carefully by hand if necessary to avoid damage to structure and waterproofing.
6. Moisture-condition by adding water or drying as necessary for compaction.
7. Compact to not less than the following percentages of maximum dry density (relative compaction) for material which exhibits a well-defined moisture density relationship determined in accordance with ASTM D1557-78.

<u>Location</u>	<u>ASTM D1557</u>
Within building areas and within ten feet beyond perimeter building lines	95 percent
Areas to be paved	95 percent
Areas to be landscaped	90 percent

8. The soil fill shall be graded away from the face of the slope and rolled at the end of each work day to prevent ponding of water on surface of the reinforced soil zone or drainage over the crest onto the face of the slope.
9. Contractor shall confirm that as-built slope geometries conform to approximate geometries shown on construction drawings.

EXCAVATION AND FILL
DIVISION 31
SECTION 312300

3.03 LEVELING COURSE

- A. The underlying course shall be checked and accepted by the Engineer before placing and spreading operation are started. Any ruts or soft areas shall be corrected and compacted to the required density before placing Leveling Course.
- B. The Leveling Course shall be placed to the lines and grades shown on the drawings. The Leveling Course shall be constructed without segregation of the aggregate. The Leveling Course shall be placed in lifts (uncompacted) not to exceed 4" and compacted to 95% of maximum dry unit weight, as determined by ASTM D 1557. Testing personnel shall be given reasonable time to make field density determinations prior to placement of successive layers of material.
- C. The Leveling Course shall be finished by blading or with automated equipment specifically designed for this purpose. In no case shall thin layers of material be added to the top of the Leveling Course to meet grade. If the compacted elevation of the top layer is 0.05 feet or more below grade, it shall be scarified to a depth of at least 2 inches, new material added, and the layer shall be blended and compacted to bring it to grade.
- D. After the Leveling Course has been completely compacted, the surface will be tested by the Engineer for smoothness and accuracy of grade and crown. The grade elevation shall not vary more than 0.05 feet from the design elevation. The grade surface shall not vary more than 0.05 feet from a 16-foot straightedge when applied to the surface parallel with, and at right angles to, the centerline. Any portion lacking the required smoothness or failing in accuracy of grade or crown shall be corrected to within the specified tolerances.
- E. Hauling equipment may be routed over completed portions of the Leveling Course, provided no damage results and provided that such equipment is routed over the full width of the Leveling Course to avoid rutting or uneven compaction. The Engineer will have full and specific authority to stop all hauling over completed or partially completed Leveling Course when, in his/her opinion, such hauling is causing damage. Any damage resulting to the Leveling Course from routing equipment over the Leveling Course shall be repaired by the Contractor at no additional cost to the Owner.
- F. Maintenance
 - 1. Following the completion of the Leveling Course, and until paving and final acceptance of the work, the Contractor shall remove all weak or loose spots, fill and compact the voids, and perform all maintenance work.
 - 2. The Leveling Course shall be properly drained at all times.

END OF SECTION 312300

SECTION 332100 – WATER SUPPLY WELL

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Work will include: Installation of a new potable water well.

All work shall meet the requirements of the State of Alaska Department of Environmental Conservation (ADEC) 18 AAC 80 Drinking Water. The well shall meet the requirements of AWWA A 100 Water Wells.

1.02 RELATED REQUIREMENTS

- A. Division 22, Plumbing
- B. Section 31 23 00, Excavation and Fill

1.03 REFERENCE STANDARDS

- A. AAC 80, Drinking Water, State of Alaska Dept. of Environmental Conservation.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Casing: Conform to ASTM A-53, 6-inch diameter, black, schedule 40, Grade B.
- B. Grout: Bentonite shall be at least 85 percent montmorillonite and meet API specifications standard 13A.
- C. Pump and Controls: Pump shall be 5 HP, 230 volt, single phase, with a capacity of 50 GPM at 100-feet TDH, Aquavar ProPak, or equal with control box.
- D. Well Screen: AISI Type 302/304 Stainless Steel, continuous slot type with welded plate bottom. Provide fittings as required to provide a tight seal between top of screen and well casing.
- E. Pitless Adapter: MAAAS Midwest, or equal.
- F. Piping: Drop Pipe: 2-inch galvanized steel schedule 40

WATER SUPPLY WELL
DIVISION 33
SECTION 332100

PART 3 - EXECUTION

3.01 EXAMINATION OF SITE

- A. Examine site surfaces and elevations, subsurface soils report, existing site survey and details on Drawings for defects that will adversely affect the work.
- B. Start of work shall mean acceptance of existing conditions as capable of producing an acceptable job.

3.02 INSTALLATION

- A. Well Installation
 - 1. Stake well and water service connection location and obtain Engineer's approval of location prior to installation.
 - 2. Install well to ADEC requirements including grouting - Casing depth shall be a minimum of 60 feet below existing ground grade. Provide a minimum 6-foot length of screen.
 - 3. Develop well as required to provide a 35 GPM flow rate clear of sand. Provide a minimum 4-hour pumping rate test. Pumping test shall be witnessed by the Engineer.
- B. Pump
 - 1. Install pump, controls, drop pipe and appurtenances in accordance with manufactures recommendations.

3.03 TESTING

- A. Contractor shall be responsible for all well testing and reporting.

END OF SECTION 332100

SECTION 333300 – SEWER SERVICE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Sanitary sewer service system from building to point of connection with on-site septic system.
- B. Obtain and pay for as part of Contract price all necessary permits.

1.02 RELATED REQUIREMENTS

- A. Section 31 23 00, Excavation and Fill
- B. Section 33 36 00, Septic System

1.03 REFERENCE STANDARDS

- A. ASTM D2661 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Sewer Service Lines Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 pipe and fittings.

PART 3 - EXECUTION

3.01 EXAMINATION OF SITE

- A. Examine site surfaces and elevations, existing site survey and details on Drawings for defects that will adversely affect the work.
- B. Start of work shall mean acceptance of existing conditions as capable of producing an acceptable job.

3.02 DEWATERING

- A. Do not allow water to accumulate in excavations. Remove and convey standing water from excavations by pumping if necessary.

SEWER SERVICE
DIVISION 33
SECTION 333300

3.03 INSTALLATION

- A. Install pipe and fittings according to these Specifications or the manufacturer's recommendations. Lay conduit to the grades and lines shown on the Plans.
- B. Bedding: The pipe shall be bedded with non-frost susceptible material, with a fine granular texture and containing no material larger than one-half inch (1/2"). The bedding shall be placed the full extent of trench and six inches (6") above the pipe.

3.04 TESTING

- A. Sewer Service Line Testing
 - 1. With the Engineer present, test the sewer for grade, alignment, and leakage. Grade and alignment must conform to staking with no deviation allowed that would inhibit flow.
 - 2. Test for infiltration if the normal groundwater table lies above the invert of the sewer conduit. Infiltration must not exceed 4 gallons per inch of conduit diameter per 1000 feet of pipe per day.
 - 3. Test for exfiltration when no groundwater exists above the conduit invert. Leakage must not exceed 5 gallons per inch of conduit diameter per 1000 feet of pipe per day. Use minimum test pressure of 4 feet of water column above the crown at the upper end of the conduit.

END OF SECTION 333300

SECTION 333600 – SEPTIC SYSTEM

PART 1 - GENERAL

1.01 SUMMARY

- A. Installation and testing of on-site septic system including conveyance, septic tank and soil absorption drainage field.

1.02 REFERENCES

- A. Section 31 23 00, Excavation and Fill
- B. Section 33 33 00, Sewer Service
- C. 18 AAC 72, Wastewater Disposal, State of Alaska Dept. of Environmental Conservation Onsite Wastewater System Installation Manual, State of Alaska Dept. of Environmental Conservation, Division of Water.

1.03 SUBMITTALS

- A. Tank Cut Sheets
- B. Piping Material information
- C. Absorption Bed Material information
- D. Documentation of Construction form and supporting information including
- E. Installation photographs
- F. As-built drawings

PART 2 - PRODUCTS

2.01 ONSITE WASTEWATER SYSTEMS MATERIALS

- A. Materials shall meet minimum specifications and sizes as listed in Section 20.02 of the Onsite Wastewater System Installation Manual.

PART 3 - EXECUTION

3.01 EXAMINATION OF SITE

- A. Examine site surfaces and elevations, existing site survey and details on Drawings for defects that will adversely affect the work.

SEPTIC SYSTEM
DIVISION 33
SECTION 333600

- B. Start of work shall mean acceptance of existing conditions as capable of producing an acceptable job.

3.02 INSTALLATION

- A. Septic System construction must comply with 18 AAC 72 standards.
- B. Septic System shall be installed by a Certified Installer or under the supervision of a registered engineer.
- C. Contractor shall follow notification and documentation of construction requirements as outlined in the Onsite Wastewater System Installation Manual.

3.03 TESTING

- A. Contractor shall be responsible for all septic system testing and reporting.

END OF SECTION 333600