

ADDENDUM NO. 2

This addendum consists of 18 pages

TO: All Bid Packet Holders

FROM: City of Kenai Public Works Department

DATE: May 26, 2023

SUBJECT: Invitation to Bid – 2023 N. Willow St. Roadway Improvements

DUE DATE: June 1, 2023, by no later than 10:00 AM

Bidders must acknowledge receipt of this Addendum in the appropriate place on the Bid Form. Failure to do so may result in the disqualification or rejection of the bid.

Note: Information in this addendum takes precedence over original information. All other provisions of the document remain unchanged.

01-01 Plan Holder Question: Will the City consider allowing the contractor to use the sand currently stockpiled on airport property?

Response: Airport sand is available for use within areas designated acceptable by Engineer. The Airport owns the sand and will charge the fair market rate for the material at point of sale. Fair market rate is determined by Airport Manager and Public Works Director quoting similar materials from other local suppliers.

01-02 Plan Holder Question: Item 20.28 Reconstruction Driveway (Paved) is unclear. Typical section C/C12 indicates that classified fill II-A or approved in-situ gravel may be used, however specifications allow for only II-A fill. Additionally, the minimum depth of fill shown on the typical section does not agree with that called out by the specification section 20.28. What is deemed to be "approved in-situ gravel" and is this acceptable or not? Finally, the specs indicate that excavation and backfill, as well as geotextile, are incidental to this item, while asphalt and leveling course are not. The typical section does not call for geotextile, and neither does the specification. It would seem appropriate that excavation and backfill be paid under those respective items, as are hma and base course. If geotextile may be required, it should be addressed.

Response: Type III Classified Fill or in-situ Kenai sand conforming to Type III Classified Fill may be used in areas of roadway and driveways 12" below finish grade or deeper.

Contractor shall provide a minimum of 2" of asphalt pavement, 2" of leveling course, and 8" of Type IIA Classified Fill in Sta. 11+07+ roadway and driveways. Asphalt, Leveling Course, Type IIA Classified Fill, and Excavation for driveways will be paid for under those respective items, and are included in the quantities on the bid schedule. We do not anticipate the use of geotextile fabric unless unforeseen/special circumstances arise during construction.

01-03 Plan Holder Question: The bid form does not include a bid schedule. Is this correct?

Response: Please see the attached Bid Schedule provided within Addendum 1. Providing same form, unchanged, with Addendum 2.

01-04 Plan Holder Question: Is there a plan holders list available?

Response: Please see the attached plan holders list.

01-05 Plan Holder Question: Will the city allow for a conversion to cubic yards instead of tons?

Response: The city will allow conversion to cubic yards under the following conditions:

Payment shall remain by the Ton. However, the City will accept calculating the Tons based on a surveyed volume of material placed, completed by a Professional Land Surveyor licensed in the State of Alaska, multiplied by a unit weight of material. The surveyor shall provide a survey bottom of excavation and top of classified fill and compute a volume of material placed. The survey and calculations shall be submitted for the Owner's review and acceptance. The unit weight of the material shall be 95% of the maximum density as determined by AASHTO T180.

01-06 Clarification

Please see the attached revised plan set for addendum 2

Please see the attached Specification 20.28 – Reconstruct Driveway

End of Addendum 2

Bid Schedule - 2023 N Willow Street Improvements - Addendum 2

		BID SCHEDU	LE - BASE	BID		
Item Number	Pay Item Description	Unit	Estimated Quantity	Unit Bid Price	A	mount Bid
20.02-A	Storm Water Pollution Prevention Plan	Lump Sum	1	(LUMP SUM)		
20.02-B	SWPPP-Implementation	Conting. Sum	1	\$ 5,000.00	\$	5,000.00
20.04	Clearing and Grubbing	Lump Sum	1	(LUMP SUM)		
20.09	Remove Pavement	Square Yard	13,805			
20.10a	Unusable Excavation	Cubic Yard	4,000			
20.11	Grading Existing Surfaces	Linear Foot	3,610			
20.21a	Classified Fill and Backfill (Type IIA)	Ton	4,800			
20.21b	Classified Fill and Backfill (Type III)	Ton	4,000			
20.22	Leveling Course (2" Roadway, 4" Shoulders)	Ton	1,520			
20.28	Reconstruction Driveway (Paved)	Each	19			
20.31	Drainage Gallery	LF	300			
20.32	Compaction Control by the Contractor	Lump Sum	1	(LUMP SUM)		
40.06	Asphalt Concrete Pavement (Class E, 2" Thickness)	Ton	1,650			
50.06a	Adjust SS Manhole Cover & Frame to Finish Grade	Each	4			
55.20a	Culvert (15-Inch, CMP or CPEP, 16 Ga., Round)	Linear Foot	873			
55.20b	Culvert (18-Inch, CMP or CPEP, 16 Ga., Round)	Linear Foot	162			
55.20c	Culvert End Section (15-Inch)	Each	38			
55.20d	Culvert End Section (18-Inch)	Each	8			
60.03	Adjust Valve Box to Finish Grade	Each	3			
65.02	Construction Survey Measurement	Lump Sum	1	(LUMP SUM)		
70.07	Remove Pipe (Existing Culverts)	Linear Foot	425			
70.10a	Traffic Markings (Solid Yellow, 4")	Linear Foot	4800			
70.10b	Traffic Markings (Solid White, 4")	Linear Foot	7220			
70.10c	Traffic Markings (Solid White Stop Bar, 24")	Linear Foot	315			
70.12	Traffic Maintenance	Lump Sum	1	(LUMP SUM)		
70.22	Adjust Monument to Finish Grade	Each	1			
75.03	Topsoil (4" Depth)	MSF	38.1			
75.04	Seeding (Schedule D)	MSF	38.1			
90.10	Force Account Work	Conting. Sum	1	\$ 50,000.00	\$	50,000.00
90.11	Existing Utilities In Construction Zone	Lump Sum	1	(LUMP SUM)		
90.13	Mobilization and Demobilization	Lump Sum	1	(LUMP SUM)		
			Total Base	Bid Estimate		

Project Name: 2023 N. Willow St. Roadway Improvements

Date: May 26, 2023

Plan Holder's List

Company	Contact Name	Contact Email
City of Kenai	Scott Curtin	scurtin@kenai.city
City of Kenai	Lisa Lisa	<u>llist@kenai.city</u>
City of Kenai	Alan Robillard	arobillard@kenai.city
Nelson Engineering	Matt DeReave	mdereave@nealaska.com
Builders Exchange of WA	Rich Morgan	production@bxwa.com
Builders Exchange of WA	Taylor Morales	taylor@bxwa.com
Ahtna Global	Curtis Huffman	chuffman@ahtna.net
Knik Construction Co. Inc.	Blake Hardina	bhardina@lynden.com
Knik Construction Co. Inc.	Sean McKeown	seanm@lynden.com
Alaska Sure Seal	Ron Palm	alaskasureseal@alaska.net
Peninsula Paving	Josh Updike	pavingalaska@hotmail.com
Hot Rocks Asphalt Paving	Todd Kinzel	kniktodd@gmail.com
Foster Construction LLC	Kyle Foster	kyle@fosterconstructionak.com

SECTION 20.28 – RECONSTRUCT DRIVEWAY

Article 28.3 Construction

<u>Delete the last sentence of the third paragraph and replace with the following:</u>

Contractor shall provide all areas of reconstructed driveway with a minimum eight inches (8") of Type II-A Classified Fill below the asphalt and leveling course. Type III Classified Fill or *in situ* material conforming to Type III Classified Fill shall be used for fill in areas in the reconstructed driveway at depths 12" or deeper from top of finish grade. All materials shall be compacted to minimum ninety-five percent (95%) of maximum density.

Article 28.4 Measurement

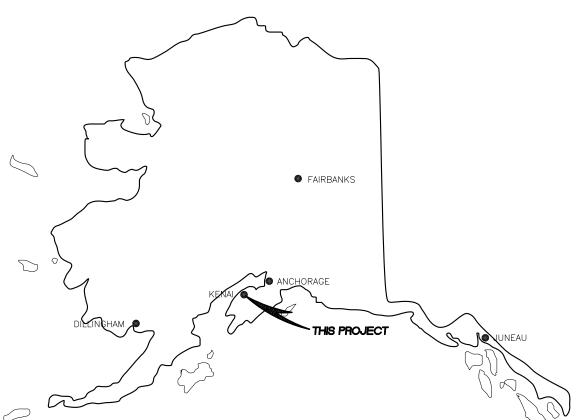
Delete the second sentence of the first paragraph and replace with the following:

Measurements for excavation, removal of asphalt, asphalt pavement, leveling course, and classified fills are included under their respective Work items.

Article 28.5 Basis of Payment

Add the following:

ITEM UNIT Reconstruct Driveway Each



2023 N. WILLOW STREET ROADWAY IMPROVEMENTS FOR BID

CITY OF KENAI



DRAWING INDEX

<u>DRAWING</u>	SHEET
TITLE SHEET AND LOCATION MAP	C1
LEGEND, ABBREVIATIONS, AND GENERAL NOTES	C2
N WILLOW ST - PLAN AND PROFILE STA. 0+00 TO 6+50	C3
N WILLOW ST - PLAN AND PROFILE STA. 6+50 TO 13+00	C4
N WILLOW ST - PLAN AND PROFILE STA. 13+00 TO 19+50	C5
N WILLOW ST - PLAN AND PROFILE STA. 19+50 TO 26+00	C6
N WILLOW ST - PLAN AND PROFILE STA. 26+00 TO 32+50	C7
N WILLOW ST - PLAN AND PROFILE STA. 32+50 TO 37+00	C8
TYPICAL ROAD SECTIONS	C9
TYPICAL ROAD SECTIONS	C10
TYPICAL DETAILS	C11
TYPICAL DETAILS	C12
BOREHOLE LOGS	C13







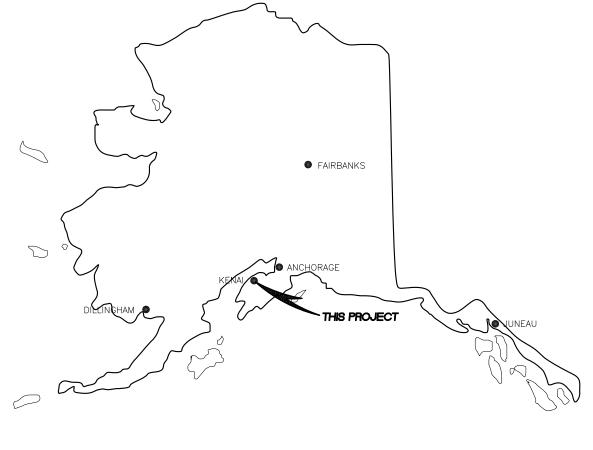
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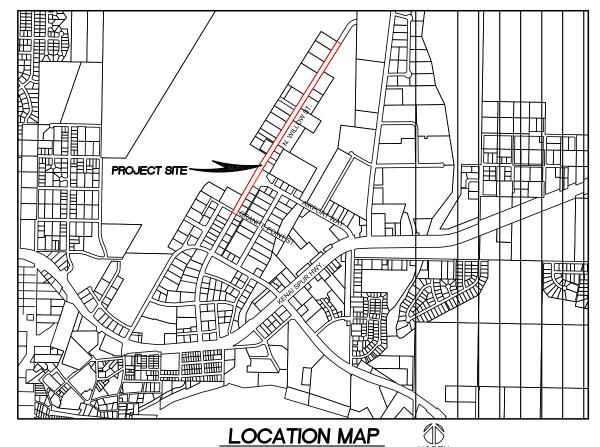
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VERT.

NOTED SHEET: C1

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ABBREVIATIONS

		_				=
EXISTING (E)	PROPOSED (P)	CENTERLINE ROAD	AC ADA ALUM	ASPHALT CONCRETE, ACRE AMERICAN DISABILITIES ACT ALUMINUM	LT LVC MAX	LEFT LENGTH OF VERTICAL CURVE MAXIMUM
		CENTERLINE ROAD	APPROX	APPROXIMATE	ME	MATCH EXISTING
100	100	CONTOUR LINES	AVG	AVERAGE	MIN	MINIMUM
		CUT/FILL DAYLIGHT	BH BLDG	BOREHOLE BUILDING	MKR MON	MARKER POST MONUMENT
		EDGE OF PAVEMENT	BOP	BOTTOM OF PIPE	N	NORTH
		EDGE OF R.O.W.	BVCE	BEGIN VERTICAL CURVE ELEVATION	NFS NTS	NON FROST SUSCEPTIBLE NOT TO SCALE
	 ←	FLOW DIRECTION	BVCS	BEGIN VERTICAL CURVE	OC	ON CENTER
~~~~		TREELINE	C.O.	STATION CLEANOUT	OFF OHE	OFFSET OVERHEAD ELECTRIC
— UGC —		UTILITY - COMMUNICATION	CIP	CAST IRON PIPE	PI	POINT OF INTERSECTION
			CL	CENTER LINE CLASS	PL	PROPERTY LINE
OHE		UTILITY - ELECTRIC (OVERHEAD)	CMP	CORRUGATED METAL PIPE	PP	POWER POLE
—— UGE ——		UTILITY - ELECTRIC (UNDERGROUND)	CNTR	CENTER CONCRETE	PT D) (1	POINT OF VERTICAL
—— GAS ——		UTILITY - GAS	CONC CP	CONCRETE CONTROL POINT	PVI	POINT OF VERTICAL INTERSECTION
			DIA	DIAMETER	PVMT	PAVEMENT
— w —		UTILITY - WATER	DW	DRIVEWAY	R	RADIUS, RECORD
—— ss ——		UTILITY - SEWER	DWG	DRAWING	REQ'D	REQUIRED
		COMMUNICATION PEDESTAL	EA	EAST, ELECTRIC EACH	ROW S	RIGHT-OF-WAY SOUTH
		CONTROL POINT	EG	EXISTING GROUND	S/W	SIDEWALK
•			EL,ELEV	ELEVATION	SW	SWALE
		CULVERT	EOP	END OF PROJECT	SH	SHOULDER
		ELECTRICAL TRANSFORMER	EP ESMT	EDGE OF PAVEMENT EASEMENT	SS SSMH	SANITARY SEWER SANITARY SEWER MANHOLE
A		HYDRANT	EXIST	EXISTING	STA	STATION
Ø		POWER POLE	FF FG	FINISH FLOOR FINISH GRADE	TBC TBM	TOP BACK OF CURB TEMPORARY BENCHMARK
0		SANITARY SEWER MANHOLE	FT	FOOT, FEET	TC	TOP OF CONCRETE
			F&I	FURNISH AND INSTALL	TYP	TYPICAL
$\oplus$		TEST HOLE LOCATION	GD GR	GROUND GRADE	UGC	UNDERGROUND COMMUNICATION
<b>®</b>		VALVE BOX	HYD	HYDRANT	UGE VB	UNDERGROUND ELECTRIC VALVE BOX
			INV	INVERT	W W	WATER.WEST
		ASPHALT PAVEMENT	L LF	LENGTH LINEAR FEET	ws	WATER SERVICE
~~~~	·····	······	~~~~	·····	~~~~~	$\sim$

LEGEND

	<u>DI</u>	RIVE\	MAY AN	ND CULVER	RT SCHEDULE			
ITEM	STATION (FEET)	SIDE	WIDTH (FEET)	RADIUS (FEET)	NOTE	REMOVE(FT)	CMP/	CPEP
PUBLIC APPROACH	0+56.07	L	35	MATCH EXISTING	CURBS TO REMAIN			
PUBLIC APPROACH	0+66.93	R	32	MATCH EXISTING	CONCRETE TO REMAIN			
PUBLIC APPROACH	7+63.11	R	36	MATCH EXISTING	CONCRETE TO REMAIN			
PUBLIC APPROACH	7+68.40	L	24	MATCH EXISTING	CURBS TO REMAIN			
DW-1	9+10.00	L	42	MATCH EXISTING				
PUBLIC APPROACH	10+52.75	L	24	MATCH EXISTING	CURBS TO REMAIN			
PUBLIC APPROACH	10+56.59	R	36	MATCH EXISTING	CURBS TO REMAIN			
DW-2	11+97.17	L	34	20	PER DETAIL B/C8		58	15
DW-3	13+46.26	L	42	20	PER DETAIL B/C8		64	15
DW-4	13+63.84	R	31	20	PER DETAIL B/C8		53	15
CROSS CULVERT	14+00.00	_					38	18
DW-5	16+88.12	R	24	20	PER DETAIL B/C8		46	15
DW-6	17+44.63	R	21	20	PER DETAIL B/C8		43	15
DW-7	18+12.16	L	15	20	PER DETAIL B/C8		37	15
DW-8	18+73.24	R	33	20	PER DETAIL B/C8		55	15
DW-9	20+54.03	L	33	20	PER DETAIL B/C8		55	15
DW-10	21+41.25	R	24	20	PER DETAIL B/C8		46	15
DW-11	21+93.31	L	32	20	PER DETAIL B/C8		54	15
DW-12	23+90.98	R	25	20	PER DETAIL B/C8	49	47	15
DW-13	24+46.55	L	24	20	PER DETAIL B/C8		46	15
DW-14	25+54.51	R	24	20	PER DETAIL B/C8	46	46	15
PUBLIC APPROACH	25+60.35	L	26	20	PER DETAIL B/C8		48	18
CROSS CULVERT	26+25.00	-				38	38	18
DW-15	26+82.21	L	21	20	PER DETAIL B/C8		43	15
DW-16	29+27.15	L	12	5X5 TAPER	PER DETAIL A/C8	40	34	15
DW-17	29+50.03	R	26	20	PER DETAIL B/C8	40	48	15
DW-18	29+82.99	L	26	20	PER DETAIL B/C8	55	48	15
DW-19	31+98.11	L	26	20	PER DETAIL B/C8	57	48	15
DW-20	35+56.04	L	24	20	PER DETAIL B/C8	60	50	15
CROSS CULVERT	35+96.65	_				40	38	18

NOTE: DRIVEWAY WIDTH AND RADIUS, AND CULVERT LENGTHS AND INVERTS MAY BE MODIFIED BY THE ENGINEER AS REQUIRED, TO FIT FIELD CONDITIONS. ALL GRADING AND DITCHING NECESSARY TO DIRECT WATER INTO OR OUT OF THE CULVERT, ARE INCIDENTAL ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE.

GENERAL NOTES

- 1. DRAWINGS BASED ON OF TOPOGRAPHIC SURVEY BY PENINSULA SURVEYING, LLC, DATED AUGUST 18, 2022.
- 2. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ACTUAL DEPTH, NUMBER AND LOCATION UNKNOWN. BURIED UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, IDENTIFYING, AND WORKING AROUND ALL UTILITIES WITHIN THE PROJECT LIMITS AT NO ADDITIONAL COST TO THE OWNER. CALL FOR LOCATES PRIOR TO EXCAVATION, ALASKA DIGLINE 1-800-478-3121. THE CITY OF KENAI DOES NOT PARTICIPATE IN THE ALASKA DIGLINE. CONTRACTOR SHALL CONTACT CITY OF KENAI PUBLIC WORKS AT 907-283-8236 FOR WATER/SEWER/STREET LIGHT UTILITY LOCATES.
- 3. THE FOLLOWING ALASKA STATUTES APPLY TO WORK NEAR OVERHEAD ELECTRIC LINES:
 - AS 18.60.670 PROHIBITION AGAINST PLACEMENT OF EQUIPMENT NEAR ELECTRICAL LINE AND CONDUCTORS.
 - (1) PLACE ANY TYPE OF TOOL, EQUIPMENT, MACHINERY, OR MATERIAL THAT IS CAPABLE OF LATERAL, VERTICAL, OR SWINGING MOTION, WITHIN 10 FEET OF A HIGH VOLTAGE OVERHEAD ELECTRICAL LINE OR CONDUCTOR.
- (2) STORE, OPERATE, ERECT, MAINTAIN, MOVE, OR TRANSPORT TOOLS, MACHINERY, EQUIPMENT, SUPPLIES, MATERIALS, APPARATUS, BUILDINGS, OR OTHER STRUCTURES WITHIN 10 FEET OF A HIGH VOLTAGE OVERHEAD FLECTRICAL LINE OR CONDUCTOR
- AS 18.60.680 ANY WORK WITHIN MINIMUM DISTANCE STATED ABOVE SHALL REQUIRE CONTACT WITH HEA TO INSTALL TEMPORARY MECHANICAL BARRIERS, TEMPORARY DE-ENERGIZATION AND GROUNDING, OR TEMPORARY RAISING OF CONDUCTORS.
- 4. IF NOT DETAILED IN THESE DRAWINGS AND SPECIFICATIONS, ALL APPLICABLE CONSTRUCTION SHALL BE BUILT IN ACCORDANCE WITH MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (M.A.S.S.), LATEST EDITION. REPLACE "AWWU" WITH "CITY OF KENAI" THROUGHOUT SPECIFICATIONS. PROJECT DRAWINGS AND PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER M.A.S.S.
- 5. CONTRACTOR IS REQUIRED TO FIND ALL PROPERTY PINS/MONUMENTS WITHIN PROJECT AREA AND PROTECT OR REPLACE AFTER CONSTRUCTION IS COMPLETE.
- 6. SEED ALL AREAS DISTURBED BY CONSTRUCTION PER M.A.S.S., LATEST EDITION.
- 7. CONTOURS SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES AND SHOULD ONLY BE USED AS A REPRESENTATION OF EXISTING GRADES. SURVEYED ELEVATIONS ARE SHOWN ON THE ROAD PROFILES.
- 8. CONTRACTOR SHALL ADHERE TO LOCAL REQUIREMENTS FOR NOISE, HOURS OF OPERATION, AND DUST CONTROL.
- 9. TRAFFIC MARKINGS:
 - -PROVIDE 4" DOUBLE SOLID YELLOW STRIP AT CENTERLINE OF ROAD
 - -PROVIDE 4" SOLID WHITE FOGLINE AT SHOULDERS

CONTROL POINTS							
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION			
3	1.5" ALUMINUM MONUMENT	2400136.12	1416348.96	98.14			
4	REBAR WITH YELLOW PLASTIC CAP	2400818.37	1416642.68	98.36			
5	REBAR WITH RED PLASTIC CAP	2402652.21	1417807.79	100.61			
6	2" ALUMINUM MONUMENT	2402248.95	1417560.79	99.59			
ТВМ 7	NORTH BOLT ON UPPER HYDRANT FLANGE	2402587	1417867	102.56			
твм 8	NORTH BOLT ON UPPER HYDRANT FLANGE	2399649	1415958	98.98			

SSMH/VB/MON ADJUSTMENT SCHEDULE							
ITEM	STATION	OFFSET	EXISTING ELEV	PROPOSED ELEV			
MONUMENT	10+62.93		96.17	96.23			
GATE VALVE	25+51.18	31.70L	97.47	97.52			
GATE VALVE	26+99.75	5.62R	97.34	98.11			
SSMH	27+10.84	7.85L	97.60	98.12			
SSMH	29+27.01	4.88L	98.41	99.15			
GATE VALVE	29+97.43	4.04L	98.57	99.49			
SSMH	32+73.63	8.11L	99.69	100.65			
SSMH	35+84.30	7.79L	99.24	99.29			

<u> </u>	DRAINAGE GALLERY SCHEDULE							
START STATION	END STATION	SIDE	LENGTH					
14+00.00	14+50.00	LEFT/RIGHT	50-FT/50-FT					
26+00.00	26+50.00	LEFT/RIGHT	50-FT/50-FT					
36+00.00	36+50.00	LEFT/RIGHT	50-FT/50-FT					





TING ENGINEERS

RAL/GIVIL
(A ST
99611
283 - 3583
AEC01219

STRUCTUR 155 BIDARK KENAI, AK KENAI, AK LICENSE NO. LICENSE NO.

NEL SON ENGINEERING

1SKA

LLOW ST. ROADWAY II CITY OF KENAI KENAI, ALASKA ES, LEGEND, ABBRE

PROJECT NO. 2022030.2

DRAWN BY:
GTP/MZD
CHECKED BY:
MJD/MZD

2023 N.

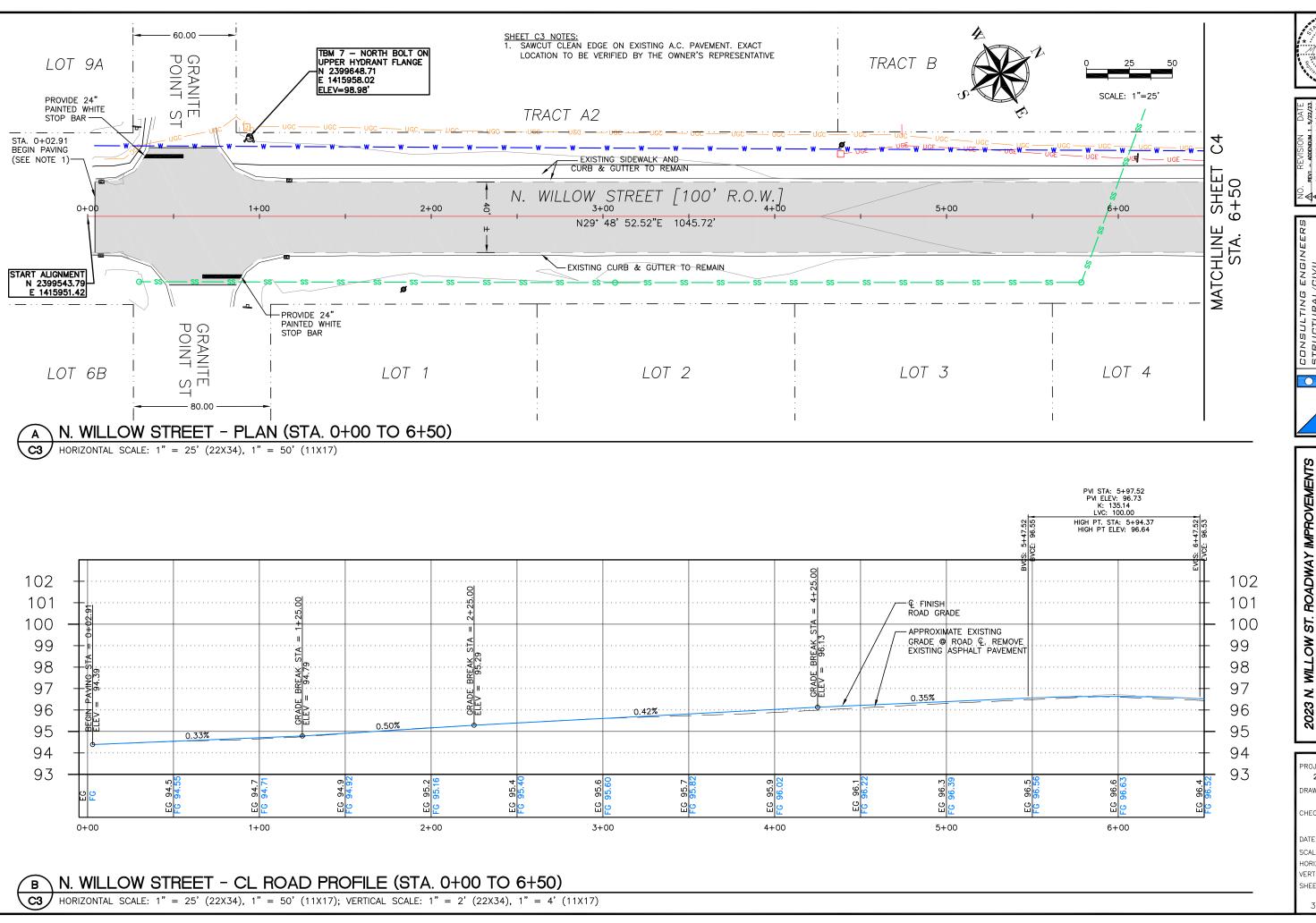
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SHEET: C2

C2

2 OF 13





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S BIDARKA ST
NAI, AK 99611
L. (907) 283 - 3583
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WILLOW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
PLAN AND PROFILE
STA. 0+00 TO 6+50

PROJECT NO. 2022030.2

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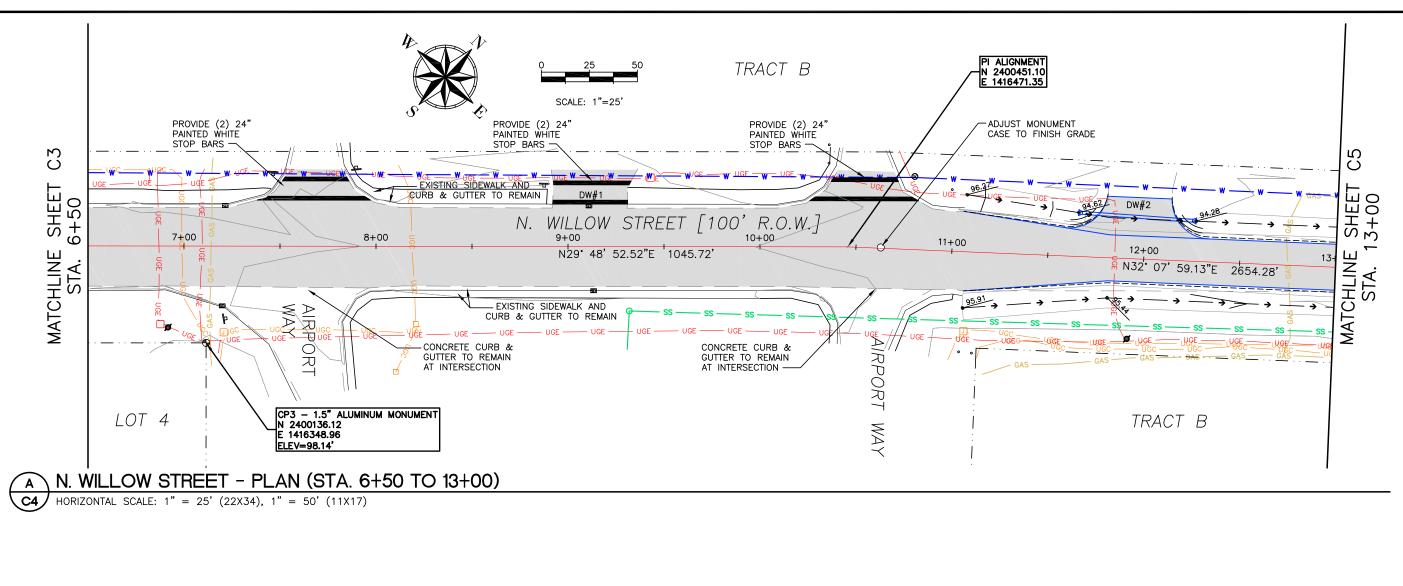
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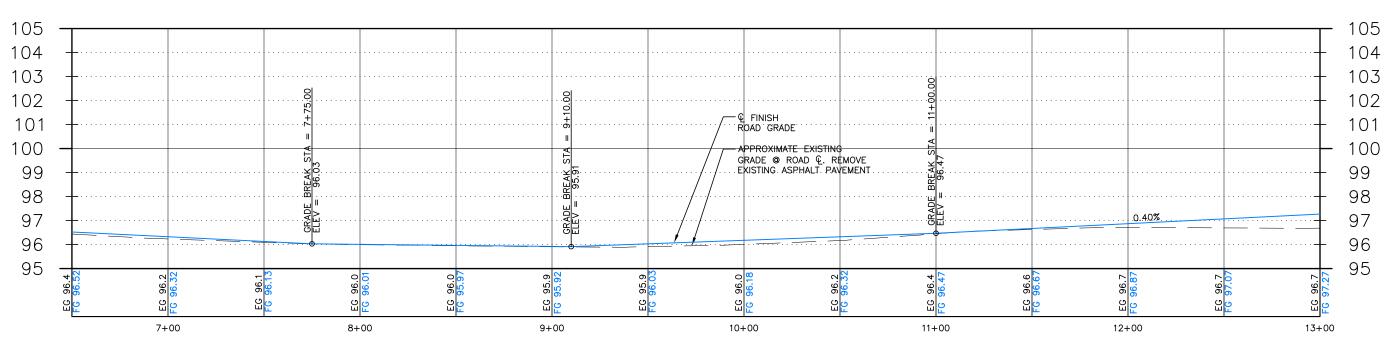
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SHEET: **C3**3 OF 13





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4 OF 13

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5/22/23

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CONSULTING ENGINEERS
STRUCTURAL/CIVIL
155 BIDARKA ST
KENAI, AK 99611
TEL. (907) 283 - 3583
LIGENSE NO. AE01219

NEL SON ENGINEERING

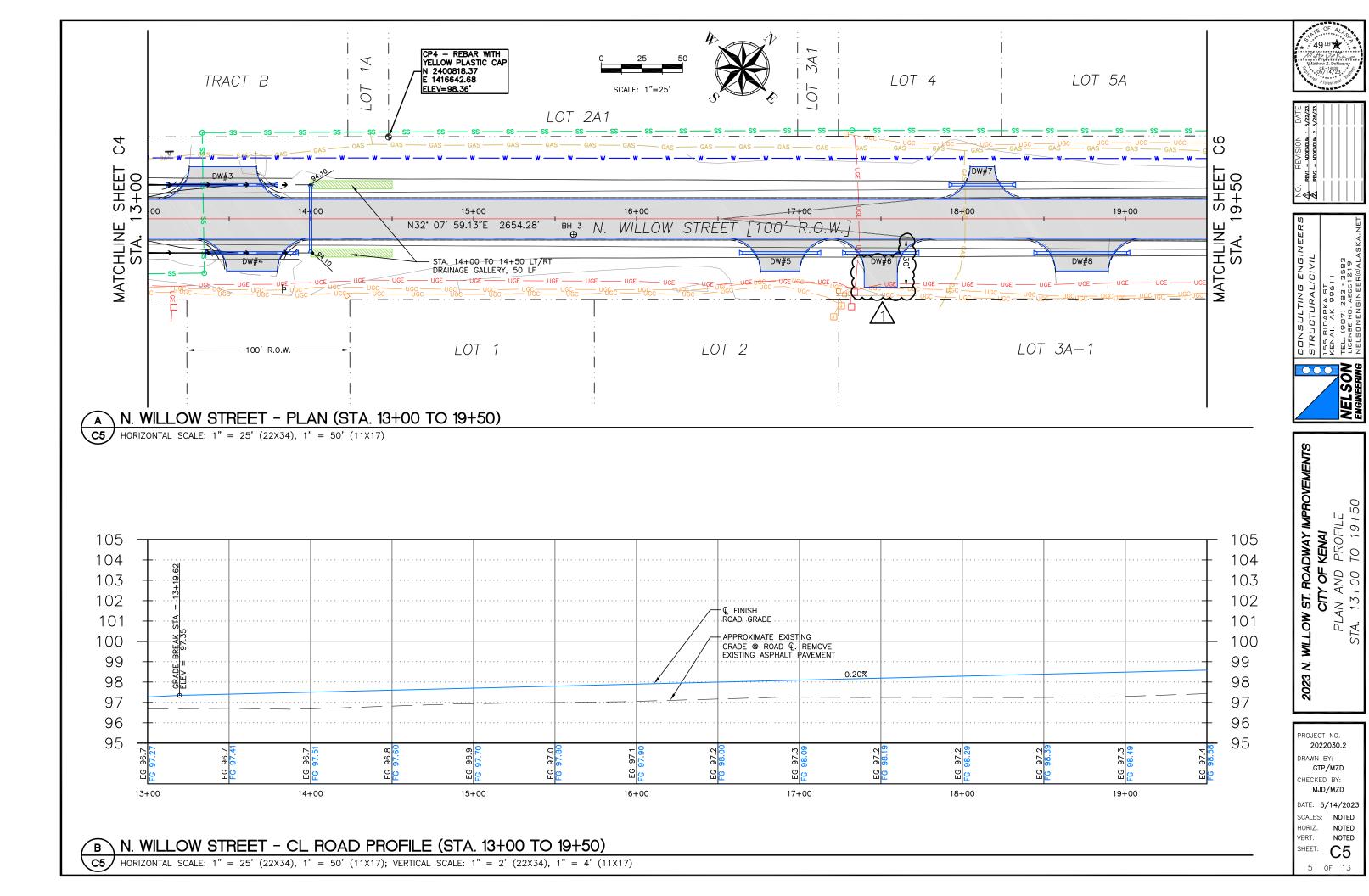
LOW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
PLAN AND PROFILE
STA. 6+50 TO 13+00

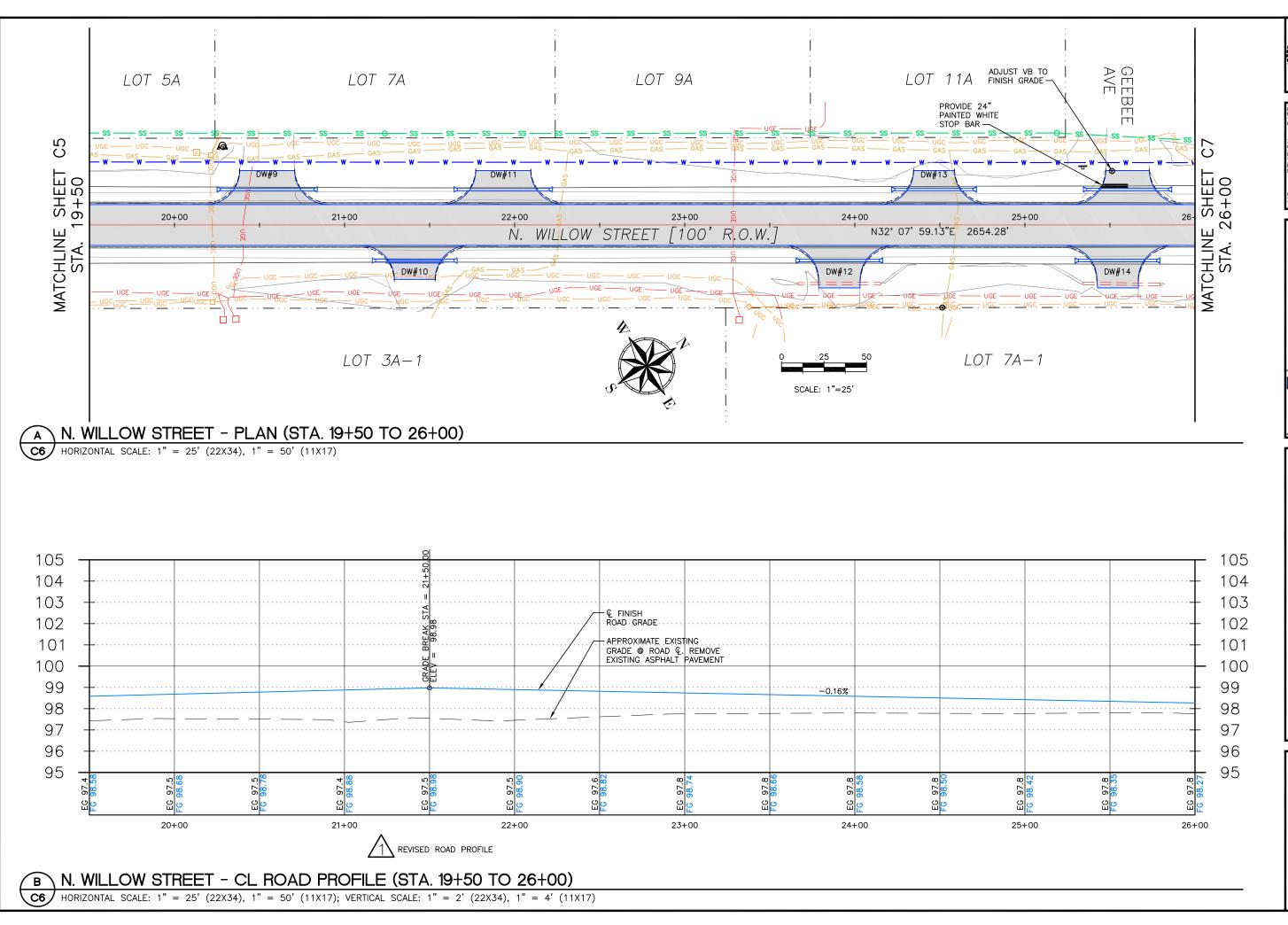
MILLOW

Z 2023

N. WILLOW STREET - CL ROAD PROFILE (STA. 6+50 TO 13+00)

HORIZONTAL SCALE: 1" = 25' (22X34), 1" = 50' (11X17); VERTICAL SCALE: 1" = 2' (22X34), 1" = 4' (11X17)









RUCTURAL/CIVIL
BIDARKA ST
AI, AK 99611
. (900) 283 - 3583
SONENGINEER@ALASKA.NET

NELSON TE ENGINEERING NEE

2023 N. WILLOW ST. ROADWAY IMPROVEMENTS
CITY OF KENA!
PLAN AND PROFILE
STA. 19+50 TO 26+00

PROJECT NO.
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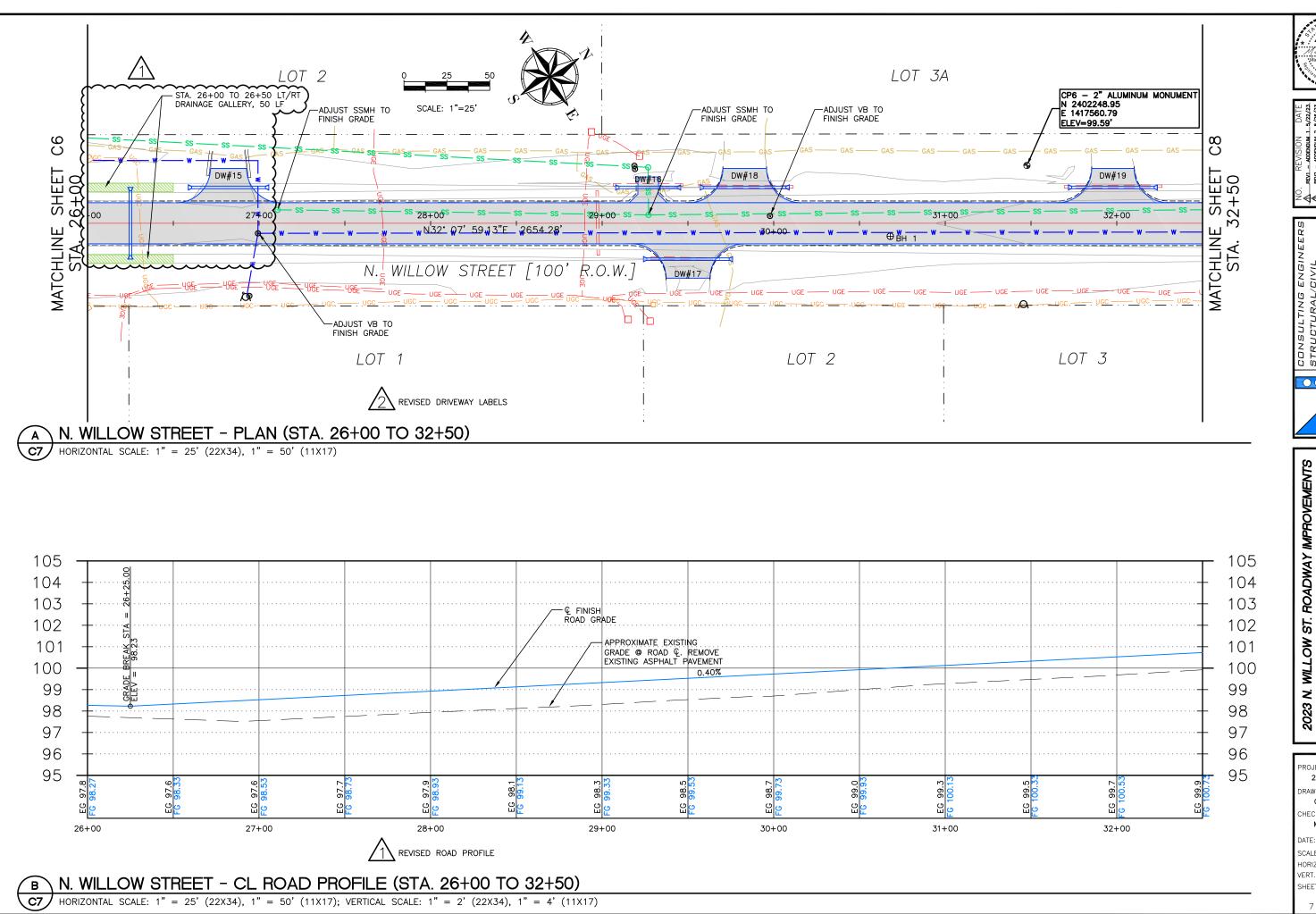
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MJD/MZD

DATE: 5/14/2023
SCALES: NOTED
HORIZ. NOTED
VERT. NOTED

VERT. NOTED
SHEET: C6

6 OF 13



49 11 A Matthew 2, DeRaeve (95/14/23)

NO. REVISION DATE

A REV - ADDENDIM 1 5/22/23.

R REV - ADDENDIM 2 5/26/23.

UCTURAL/CIVIL
BIDARKA ST
AI, AK 99611
(907) 283 - 3583

NEL SON

WILLOW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
PLAN AND PROFILE
STA. 26+00 TO 32+50

PROJECT NO. 2022030.2

PROJECT NO.
2022030.2
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GTP/MZD

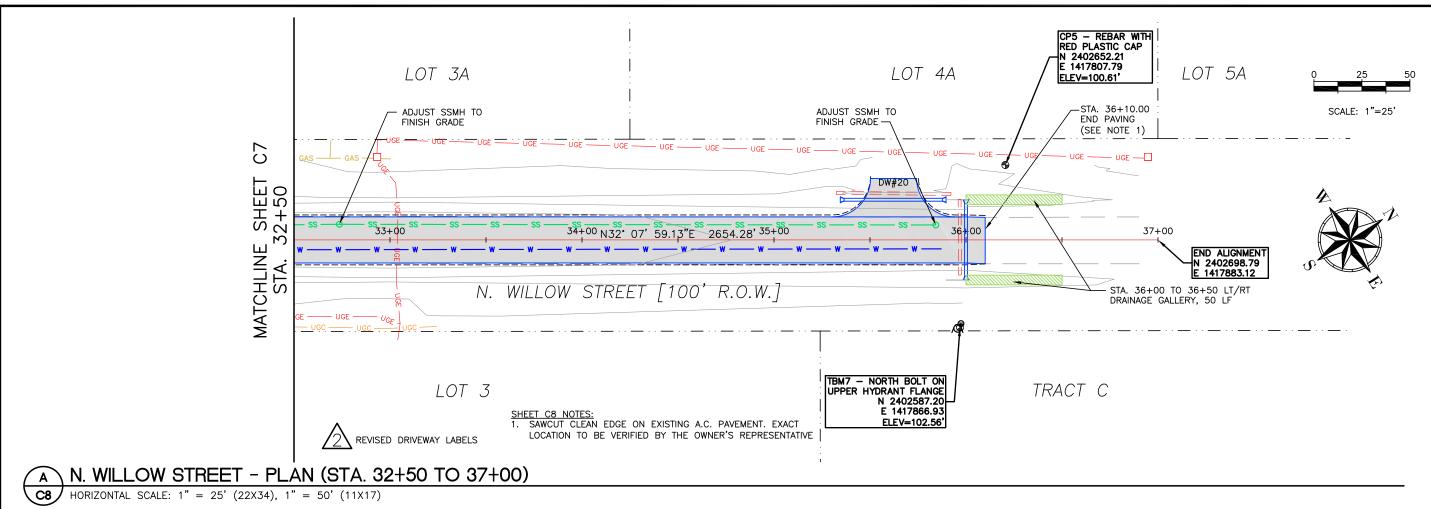
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MJD/MZD

DATE: 5/14/2023
SCALES: NOTED
HORIZ. NOTED
VERT. NOTED

VERT. NOTED

SHEET: C7

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107 107 106 106 105 105 −Ç FINISH ROAD GRADE 104 104 - APPROXIMATE EXISTING GRADE @ ROAD & REMOVE EXISTING ASPHALT PAVEMENT 103 103 102 102 101 101 100 100 99 99 98 98 EG 99.5 33+00 34+00 35+00 36+00 37+00

B N. WILLOW STREET - CL ROAD PROFILE (STA. 32+50 TO 37+00)

HORIZONTAL SCALE: 1" = 25' (22X34), 1" = 50' (11X17); VERTICAL SCALE: 1" = 2' (22X34), 1" = 4' (11X17)

49 HAZ Deflaver.

*Matthew Z. Deflaver.

*5, 1939

.05/14/23.

**Total Control Control



STRUCTURAL/CIN 155 BIDARKA ST KENAI, AK 99611 TEL. (907) 283 - 356 ILICENSE NO. ECCT 21



2023 N. WILLOW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
PLAN AND PROFILE
STA. 32+50 TO 37+00

PROJECT NO. 2022030.2

DRAWN BY:

GTP/MZD

CHECKED BY:

MJD/MZD

MJD/MZD

DATE: 5/14/2023

SCALES: NOTED

HORIZ. NOTED
VERT. NOTED
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SHEET: **C8**8 OF 13



ENGINEERS /CIVIL

WILLOW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
KENAI, ALASKA
TYPICAL ROAD SECTIONS

PROJECT NO.

Ž 2023

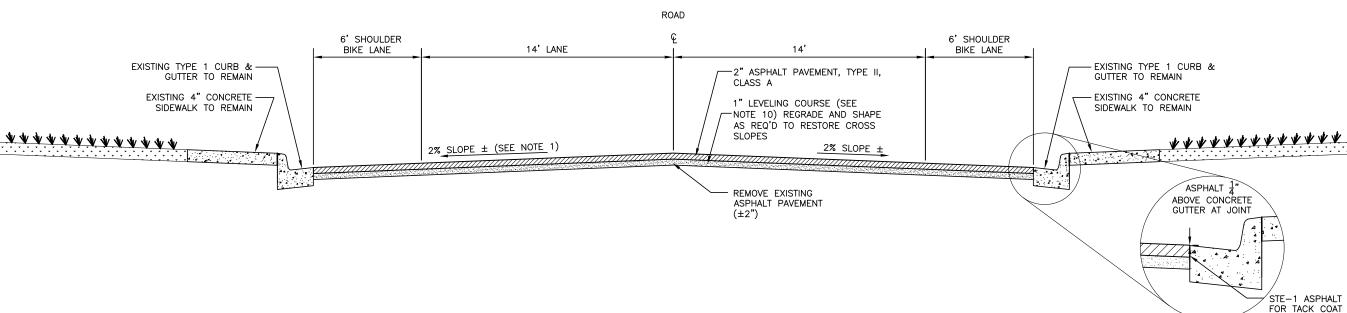
2022030.2 DRAWN BY: GTP/MZD

CHECKED BY: MJD/MZD

DATE: **5/14/2023** SCALES: NOTED HORIZ. NOTED VERT. NOTED

SHEET: C9 9 OF 13

GUTTER JOINT



TYPICAL ROAD SECTION NOTES

- SAW CUT CLEAN EDGES ON EXISTING ASPHALT AT CONNECTING STREETS AND DRIVEWAYS PRIOR TO REMOVING THE ASPHALT. DISPOSE OF EXISTING ASPHALT PAVEMENT AT CONTRACTORS'S APPROVED DISPOSAL SITE.
- 2. REGRADE AND RESHAPE EXISTING BASE COURSE AS REQUIRED. IMPORT ADDITIONAL BASE COURSE AND COMPACT PER SPECIFICATIONS. SUBBASE RECONSTRUCTION MAY BE REQUIRED IF UNSUITABLE SUBGRADE CONDITIONS ARE DISCOVERED. ADDITIONAL EXCAVATION MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 3. OBTAIN APPROVAL FOR BASE AND SUBBASE BY ENGINEER.
- MATCH EXISTING CROSS SLOPES OF THE ROADWAY UNLESS NOTED OTHERWISE.
- MATCH EXISTING PAVEMENT ELEVATION AT APPROACHES AND CONNECTING STREETS. COORDINATE EXACT LOCATION OF THE TIE-IN WITH THE OWNER'S REPRESENTATIVE.
- APPLY TACK COAT TO FACE OF ASPHALT EDGE WHERE MATCHING EXISTING ASPHALT PAVEMENT AND AS SPECIFIED BY THE ENGINEER.
- 7. TRANSITION CROSS SLOPE TO MATCH EXISTING AT THE EDGE OF PAVEMENT OF THE SIDE STREETS/DRIVEWAYS AND AT THE BOP AND EOP A MINIMUM OF 25 FEET.
 - UNDERGROUND UTILITIES ARE PRESENT WITHIN THE PROJECT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES, WORKING AROUND UTILITIES, AND COORDINATING WITH UTILITY COMPANIES AS REQUIRED.



DNSULTING ENGINEERS FRUCTURAL/CIVIL 5 BIDARKA ST NAI, AK 99611 1... (907) 283 - 3583 SENSE NO. AECC1219



W ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
KENAI, ALASKA
CAL ROAD SECTIONS

PROJECT NO. **2022030.2**

WILLOW

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2023

DRAWN BY:

GTP/MZD

CHECKED BY:

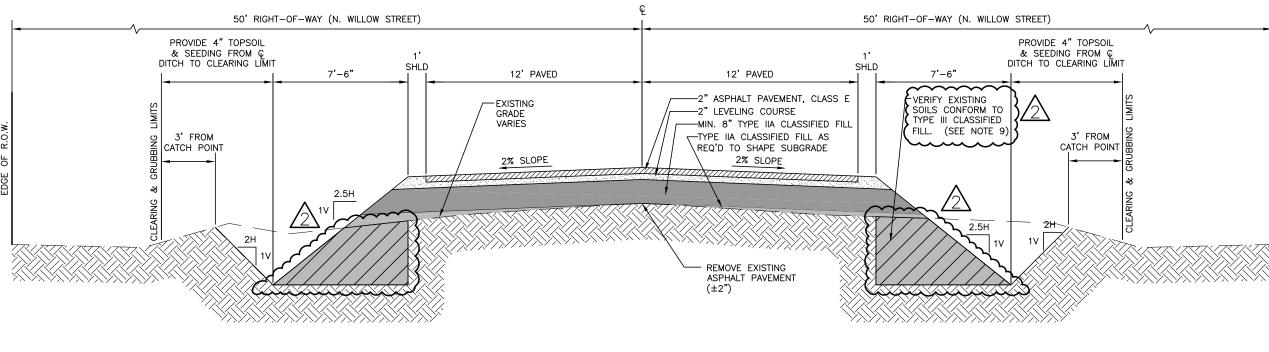
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ROAD

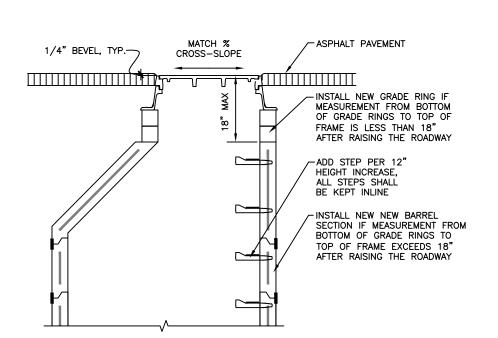
TYPICAL ROAD SECTION NOTES

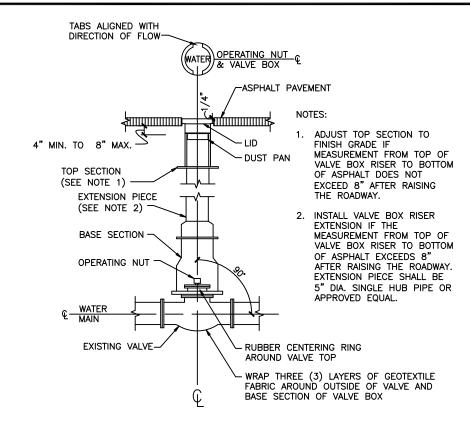
- 1. SAW CUT CLEAN EDGES ON EXISTING ASPHALT AT CONNECTING STREETS AND DRIVEWAYS PRIOR TO REMOVING THE ASPHALT. REMOVE ALL ASPHALT WITHIN LIMITS OF AREA SHOWN ON PLANS. DISPOSE OF EXISTING ASPHALT PAVEMENT AT CONTRACTORS'S APPROVED DISPOSAL SITE
- 2. REGRADE, RESHAPE, AND SCARIFY EXISTING BASE/SUBBASE AS REQUIRED TO RECEIVE NEW FILL. MATERIAL REMOVED FROM THE HIGH AREAS SHALL BE USED TO FILL THE DEPRESSIONS AND SHOULDER WIDENING AREAS. SUBBASE RECONSTRUCTION MAY BE REQUIRED IF UNSUITABLE SUBGRADE CONDITIONS ARE DISCOVERED. ADDITIONAL EXCAVATION MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 3. OBTAIN APPROVAL FOR BASE AND SUBBASE BY ENGINEER.
- PLACE ALL FILL IN LOOSE LIFTS NOT EXCEEDING TWELVE INCHES (12") AND MECHANICALLY COMPACT EACH LAYER TO NOT LESS THAN NINETY-FIVE PERCENT (95%) OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE, UNLESS OTHERWISE NOTED AND APPROVED BY THE FNIGHTER
- 5. MATCH EXISTING PAVEMENT ELEVATION AT APPROACHES AND CONNECTING STREETS. COORDINATE EXACT LOCATION OF THE TIE-IN WITH THE OWNER'S REPRESENTATIVE.
- 6. APPLY TACK COAT TO FACE OF ASPHALT EDGE WHERE MATCHING EXISTING ASPHALT PAVEMENT AND AS SPECIFIED BY THE ENGINEER.
- 7. TRANSITION CROSS SLOPE TO MATCH EXISTING AT THE EDGE OF PAVEMENT OF THE SIDE STREETS/DRIVEWAYS AND AT THE BOP AND EOP A MINIMUM OF 25 FEET.
- B. UNDERGROUND UTILITIES ARE PRESENT WITHIN THE PROJECT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES, WORKING AROUND UTILITIES, AND COORDINATING WITH UTILITY COMPANIES AS REQUIRED.

CONTRACTOR SHALL EXCAVATE TO REMOVE VEGETATION, NONCOMPLYING FILL, TOPSOIL, AND OTHER UNSUITABLE MATERIALS FROM EXISTING FORESLOPE OF ROAD DOWN TO CLEAN EXISTING IN SITU MATERIAL. EXISTING IN SITU MATERIAL CONFORMING TO TYPE III CLASSIFIED FILL SHALL BE LEFT IN PLACE AS DIRECTED BY THE ENGINEER. IF NO SUITABLE MATERIAL IS ENCOUNTERED IN THE EXISTING FORESLOPE OF THE ROAD, EXCAVATE TO REMOVE AND REPLACE WITH TYPE III CLASSIFIED FILL.



TYPICAL ROAD SECTION - N WILLOW STREET STA. 11+07 TO 37+00









ENGINI CIVIL

ADJUST MONUMENT

FINISH GRADE

SAW CUT AND CONSTRUCT FLUSH BUTT JOINT TO MATCH EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. APPLY STE-1 ASPHALT FOR TACK COAT TO THE

VERTICAL FACE OF EXISTING PAVEMENT.

- EXISTING ASPHALT PAVEMENT

PROTECT

EXISTING MONUMENT

CASING TO FINISH GRADE

NELSON

OW ST. ROADWAY IMPROVEMENTS
CITY OF KENAI
KENAI, ALASKA
TYPICAL DETAILS

MILLOW Z

PROJECT NO. 2022030.2 DRAWN BY:

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DATE: 5/14/2023 SCALES: NOTED HORIZ. NOTED VERT. NOTED

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TYPICAL PAVEMENT MATCH DETAIL

AND AS SPECIFIED BY THE ENGINEER.

1. MATCH EXISTING PAVEMENT ELEVATION AT CONNECTING STREETS 2. USE TACK COAT WHERE MATCHING EXISTING ASPHALT OR CONCRETE

2" ASPHALT PAVMENT, TYPE IIA

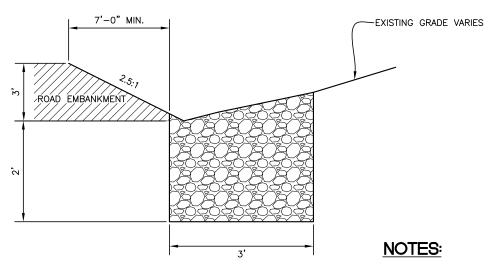
NOTES:

LEVELING COURSE AS REQ'D

MANHOLE ADJUSTMENT DETAIL

TYPICAL VALVE BOX ADJUSTMENT

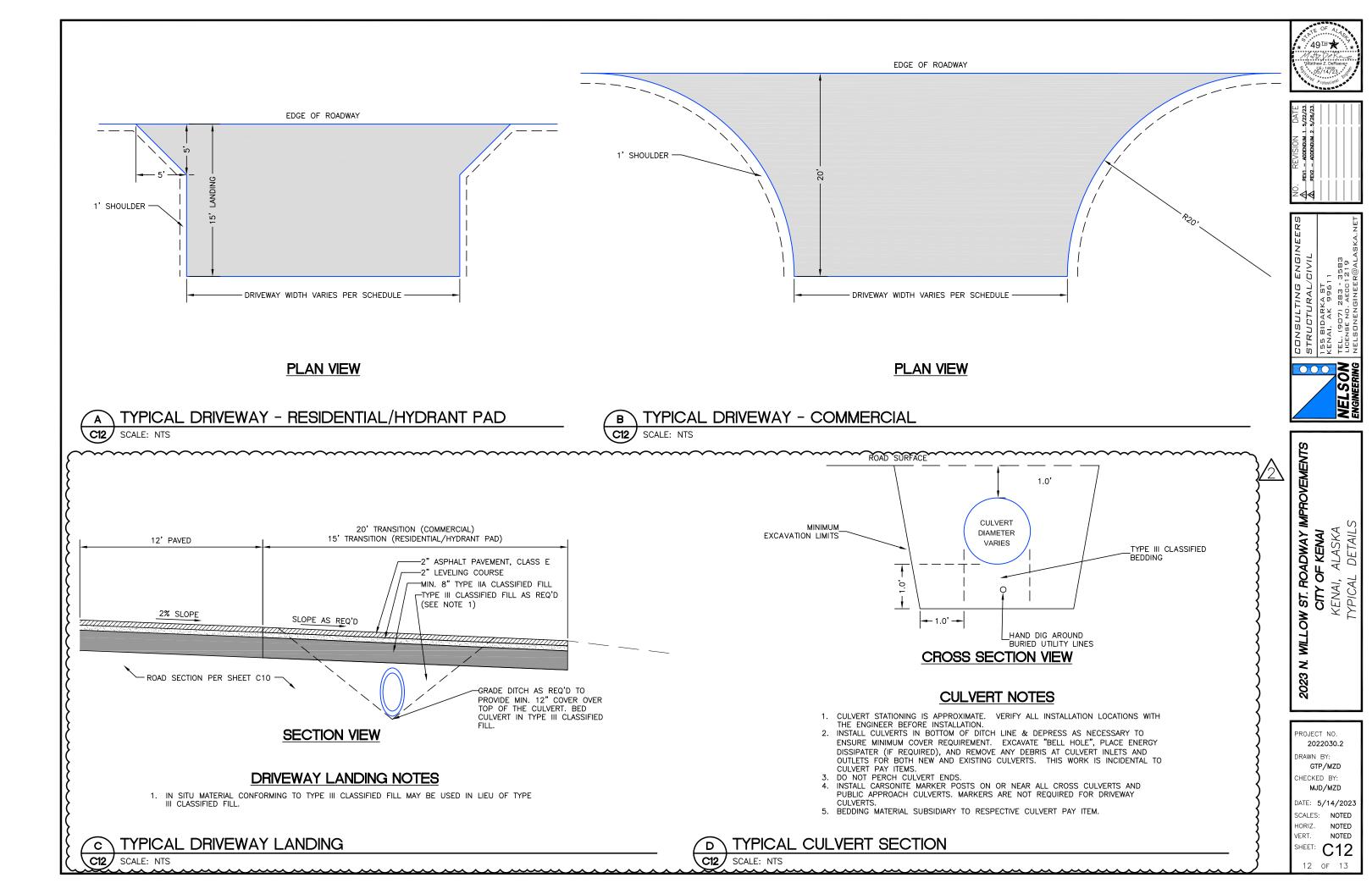
TYP. MONUMENT CASING ADJUSTMENT



- 1. DRAIN ROCK SHALL REMAIN FREE OF SILT AND OTHER UNDESIRABLE MATERIALS DURING PLACEMENT.
- 2. DO NOT PLACE ROCK MORE THAN 4" ABOVE BOTTOM OF DITCH.
- 3. LOCATION AND POSITION OF DRAINAGE GALLERIES MAY BE CHANGED BY THE ENGINEER TO AVOID CONFLICTS WITH UTILITIES AND OTHER

TYPICAL DRAINAGE GALLERY

SCALE: NTS



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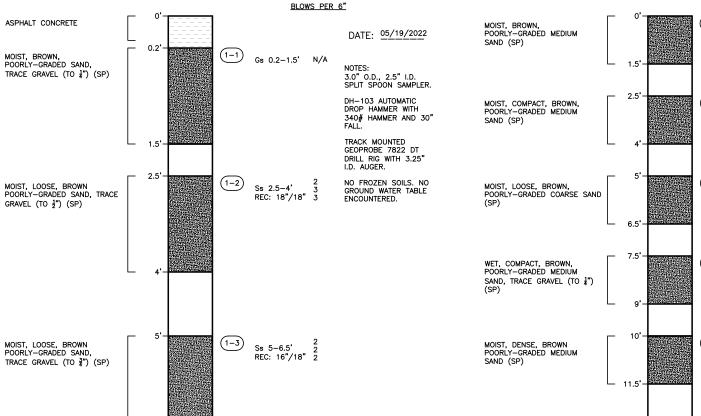
DRAWN BY: GTP/MZD CHECKED BY: MJD/MZD

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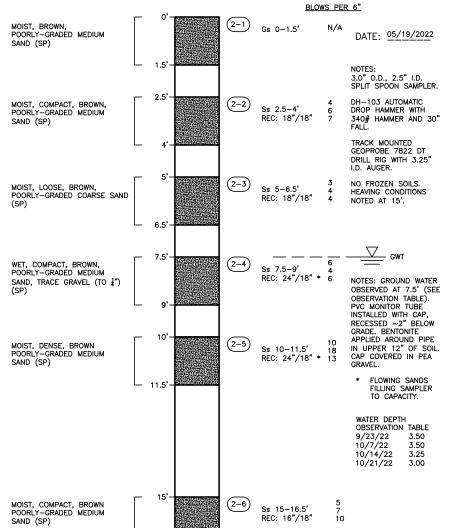
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BOREHOLE #2

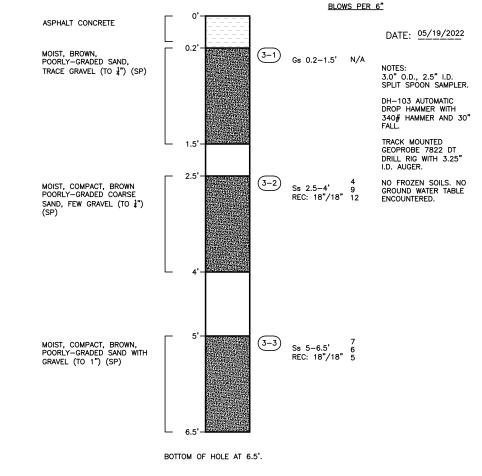


BOREHOLE #1

BOTTOM OF HOLE AT 6.5'.



BOTTOM OF HOLE AT 16.5'.



BOREHOLE #3