


# 12B

## 65% Engineer's Estimate

<b>Project:</b>	HB Visitor Center Parking Lot		
<b>Owner:</b>	Haines Borough		
<b>Date:</b>	3/29/2024		
<b>Prepared By:</b>	E. Roemeling		
<b>Checked By:</b>	L. Chambers		

### Base Bid

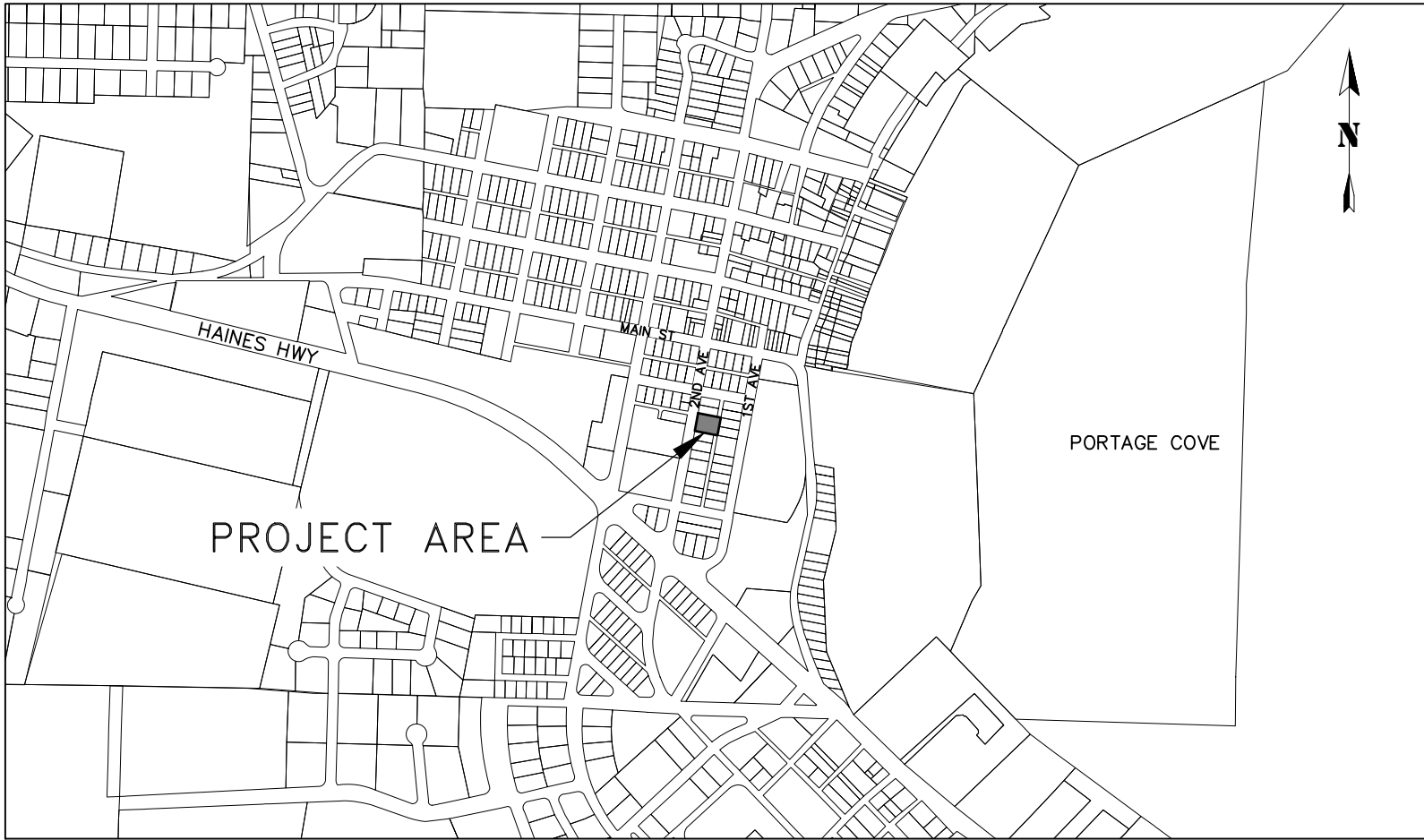
Pay Item	Pay Item Description	Pay Unit	Quantity	Unit Price	Amount
202.0002.000A	Removal of Pavement, Asphalt	SY	1032	\$6.00	\$6,192.00
203.0003.0000	Unclassified Excavation	CY	72	\$25.00	\$1,800.00
301.0002.00D1	Aggregate Base Course, Grading D-1	CY	82	\$120.00	\$9,840.00
401.0001.002B	HMA Type II; Class B	TON	183	\$300.00	\$54,900.00
401.0004.5834	Asphalt Binder, Grade PG 58-34	TON	11	\$1,800.00	\$19,800.00
603.0021.0018	Corrugated Polyethylene Pipe 18 Inch	LF	29	\$135.00	\$3,915.00
604.0017.0000	Connect to Existing Storm Drain Manhole	Each	1	\$5,000.00	\$5,000.00
604.0005.000A	Inlet, Type IV w/ Concrete Area Drain	Each	1	\$9,000.00	\$9,000.00
615.0008.0000	Signing	Lump Sum	All Req'd	\$5,000.00	\$5,000.00
640.0001.0000	Mobilization and Demobilization	Lump Sum	All Req'd	\$21,000.00	\$21,000.00
641.0003.0000	Temporary Erosion, Sediment and Pollution Control	Lump Sum	All Req'd	\$3,000.00	\$3,000.00
642.0001.0000	Construction Surveying	Lump Sum	All Req'd	\$4,000.00	\$4,000.00
642.0013.0000	Additional Construction Surveying	HR	10	\$150.00	\$1,500.00
670.0001.0001	Painted Traffic Markings	Lump Sum	All Req'd	\$15,000.00	\$15,000.00
Subtotal =					\$159,947.00
10% Construction Contingency =					\$15,994.70
Total =					\$175,941.70

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# HAINES BOROUGH VISITOR CENTER PARKING LOT

HAINES BOROUGH, ALASKA

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND ABBREVIATIONS GENERAL NOTES
3	EXISTING SITE CONDITIONS
4	SITE PLAN
5	CONSTRUCTION DETAILS



**PROJECT LOCATION MAP**  
NTS



**ALASKA VICINITY MAP**  
NTS

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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



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DESIGNED BY: E. ROEMELING  
CHECKED BY: L. CHAMBERS  
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5TH TO 6TH AVENUE  
DRAINAGE IMPROVEMENTS

**COVER SHEET**

SHEET NUMBER
1
OF
5

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## LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
ASPHALT	- - - - - EDGE OF ASPHALT	- - - - -	
BOLLARDS			
BUILDING			
FLOW ARROW			
FLOW LINE	- - - - - > - - - - -		- - - - - > - - - - -
FENCE	- x - x - x - x - x -		
FIRE HYDRANT			
MONUMENT			
PROPERTY LINE	- - - - -		
SANITARY SEWER CLEANOUT			
SANITARY SEWER PIPE	- - - - - PIPE SIZE & TYPE		
SANITARY SEWER MANHOLE			
SAWCUT & MTE LIMITS			- - - - - . - - - - -
SIGN			
STORM DRAIN CATCH BASIN			
STORM DRAIN PIPE	- - - - - PIPE SIZE & TYPE SD	- - - - - PIPE SIZE & TYPE SD	- - - - - SD (P-1) SD
STORM DRAIN MANHOLE, GRATE			
CATCH BASIN WITH AREA DRAIN			
TOP OF DITCH	- - - - -		
UNDERGROUND PIPE CAP	[		
UTILITY POLE			
UTILITY POLE WITH LUMINAIRE			
WATER LINE PIPE	- - - - - PIPE SIZE & TYPE		
WATER VALVE BOX			

## ABBREVIATIONS

<p>AC ASPHALT CONCRETE          BOP BEGINNING OF PROJECT          BTM BOTTOM          CB CATCH BASIN          CL CENTERLINE          CMP CORRUGATED METAL PIPE          CPP CORRUGATED POLYETHYLENE PIPE          CONC CONCRETE          CTE CONNECT TO EXISTING          DIP DUCTILE IRON PIPE          DIA DIAMETER          EA EDGE OF ASPHALT          EL ELEVATION          EOP END OF PROJECT          EX EXISTING          FG FINISHED GRADE          FH FIRE HYDRANT          GV GATE VALVE          HB HAINES BOROUGH          HDPE HIGH DENSITY POLYETHYLENE          IE INVERT ELEVATION          INV INVERT          LT LEFT          LVC LENGTH OF VERTICAL CURVE          MH MANHOLE          MIN MINIMUM          MTE MATCH TO EXISTING          NIC NOT IN CONTRACT          NO NUMBER          NTS NOT TO SCALE          OD OUTSIDE DIAMETER          OHE OVERHEAD ELECTRIC          PSI POUNDS PER SQUARE INCH          PVI POLYVINYL CHLORIDE PIPE          RP RADIUS POINT          RT RIGHT          ROW RIGHT-OF-WAY          SDMH STORM DRAIN MANHOLE          SSMH SANITARY SEWER MANHOLE          STA STATION          STD STANDARD          TBC TOP BACK OF CURB          TBG TOP BACK OF GUTTER          TBM TEMPORARY BENCHMARK          TP TOP OF PAVEMENT          TYP TYPICAL</p>	
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## GENERAL NOTES

1. ALL WORK FOR THESE PLANS SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND STANDARDS.
2. LOCATIONS AND ELEVATION OF EXISTING UNDERGROUND WATER, SEWER, POWER, TELEPHONE AND CABLE TELEVISION SHOWN ON THE PLANS WERE DERIVED FROM HAINES BOROUGH AS-BUILTS AND FIELD LOCATES. THE ACTUAL LOCATION OF UTILITIES MAY VARY FROM THOSE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING EXISTING UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. ANY DAMAGE TO UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL CONTACT AND REQUEST UTILITY LOCATES, AT A MINIMUM, FROM THE FOLLOWING PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES:
  - A) HAINES BOROUGH PUBLIC FACILITIES, 907-766-6414.
  - B) ALASKA POWER & TELEPHONE(AP&T), 907-766-6500.
  - C) HAINES CABLE TV, 907-766-2337.
3. A GEOTECHNICAL INVESTIGATION WAS NOT PERFORMED AS PART OF THIS DESIGN. HARDPAN, CLAY, GROUNDWATER, LARGE BOULDERS, BEDROCK, STUMPS, LOGS, ORGANICS, AND OTHER NATIVE MATERIALS MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING AND SITE GRADING OPERATIONS.
4. THE TOTAL DISTURBED AREA FOR THIS PROJECT IS ANTICIPATED TO BE LESS THAN ONE ACRE.
5. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS AND GRADES, AND STABILIZED WITH AN APPROVED HYDRAULIC GROWTH MEDIUM AND GRASS SEED UNLESS OTHERWISE SHOWN ON THE PLANS.
6. CONTRACTOR SHALL ENSURE GARBAGE PICKUP, PRIVATE AND BUSINESS DELIVERIES, AND DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL BUSINESS AND RESIDENCES AFFECTED BY THIS PROJECT.
7. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY OWNER OF DRIVEWAY CLOSURE 48 HOURS PRECEDING THE DAY THE DRIVEWAY IS TO BE CLOSED TO VEHICULAR ACCESS. THE PROPERTY OWNER SHALL BE INFORMED OF THE PERIOD OF TIME THE CLOSURE WILL BE IN EFFECT. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
8. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT THE APPROVAL OF THE PROPERTY OWNER.
9. THE PLAN DRAWINGS DO NOT SHOW ALL PLANTINGS, AND OTHER LANDSCAPING THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO PLANTINGS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
10. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS. ALL OTHER MATERIALS TO BE REMOVED AND DISPOSED OF SHALL BECOME THE PROPERTY OF THE CONTRACTOR, INCLUDING CONCRETE, ASPHALT, UNSUITABLE SOILS AND ETC.
11. WORK SHALL BE PERFORMED MONDAY THROUGH FRIDAY, 8AM TO 5PM ONLY.

## TRAFFIC CONTROL NOTES

1. ALL TRAFFIC TO BE CONTROLLED PER REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL, U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ALASKA SUPPLEMENT.
2. MAINTAIN ONE (1) LANE FOR TRAFFIC AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. NOTIFICATION OF WORK THAT MAY IMPEDE TRAFFIC MUST BE PROVIDED TO THE HB PUBLIC WORKS DEPARTMENT, HB POLICE DEPARTMENT, HAINES VOLUNTEER FIRE DEPARTMENT, CHILKOOT INDIAN ASSOCIATION, ALASKA DOT&PF HAINES M&O FOREMAN, AND THE GENERAL PUBLIC A MINIMUM OF 72 HOURS IN ADVANCE OF IMPLEMENTING TRAFFIC CONTROL.
4. CONTRACTOR MUST PROVIDE ALL NECESSARY SIGNS AND TRAFFIC CONTROL DEVICES TO MOVE TRAFFIC THROUGH OR AROUND THE PROJECT SITE.
5. PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



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DESIGNED BY:	E. ROEMELING
CHECKED BY:	L. CHAMBERS
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**5TH TO 6TH AVENUE  
DRAINAGE IMPROVEMENTS**

**LEGEND  
ABBREVIATIONS  
GENERAL NOTES**

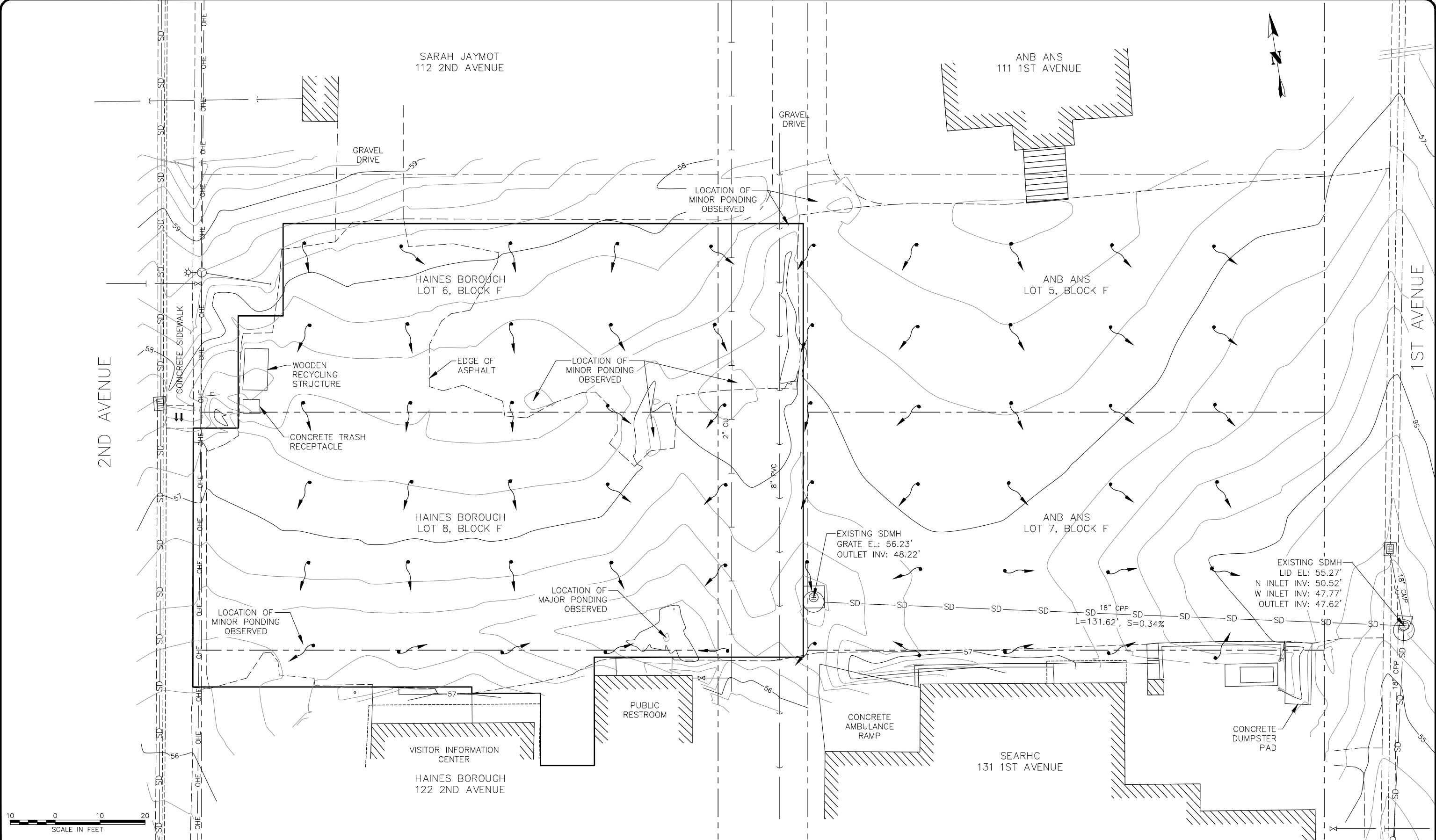
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<b>2</b>
OF
<b>5</b>

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March 29, 2024


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March 29, 2024



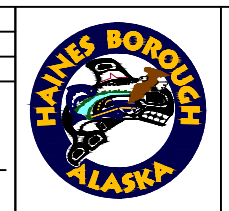
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**proHNS LLC**  
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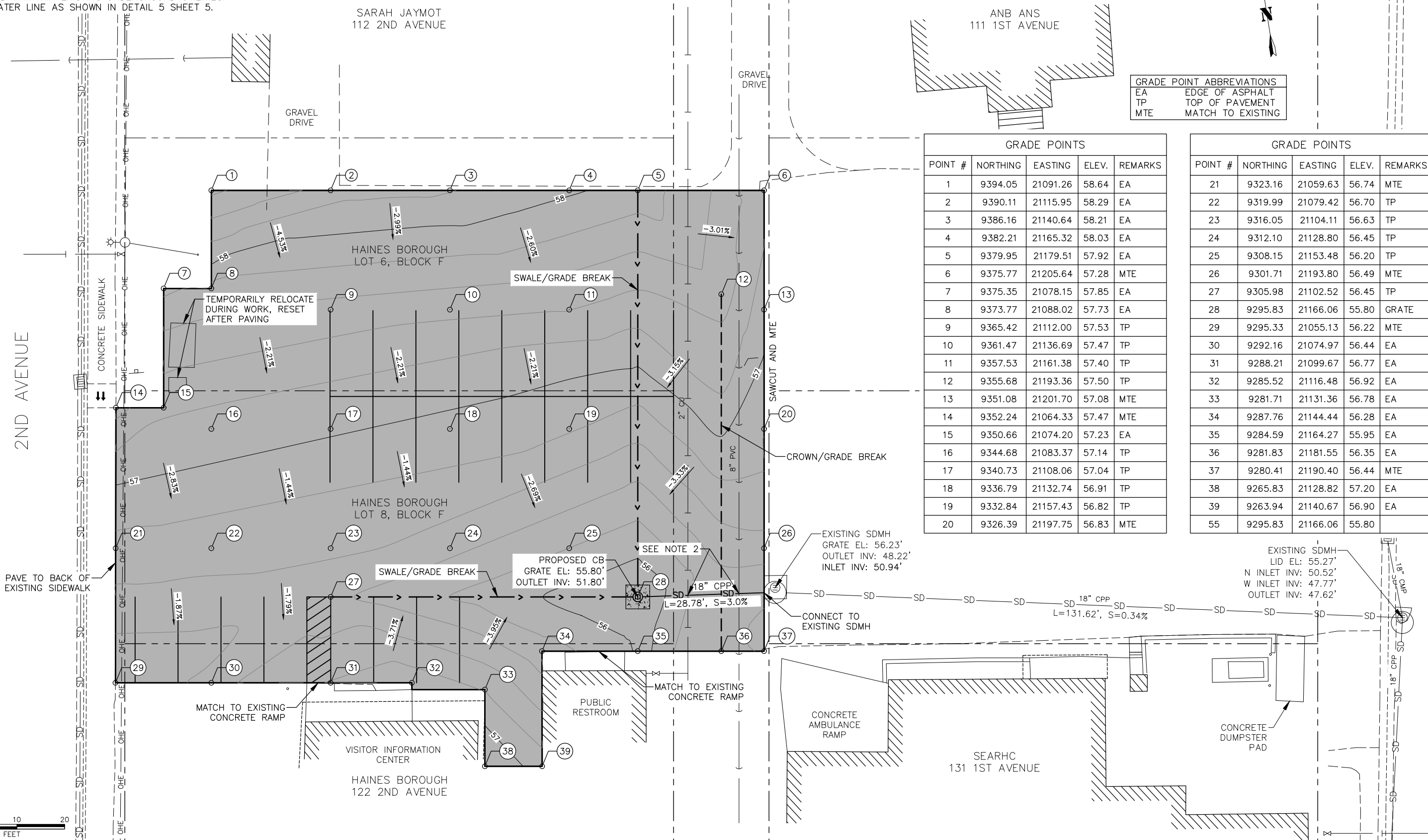
5TH TO 6TH AVENUE  
DRAINAGE IMPROVEMENTS

EXISTING SITE  
CONDITIONS

SHEET NUMBER	3
OF	5

**SHEET NOTES:**

- SLOPES SHOWN ARE FOR FINISHED PAVEMENT.
- PROTECT AND MAINTAIN EXISTING UNDERGROUND UTILITIES. INSULATE WATER LINE AS SHOWN IN DETAIL 5 SHEET 5.



**GRADE POINT ABBREVIATIONS**

EA	EDGE OF ASPHALT
TP	TOP OF PAVEMENT
MTE	MATCH TO EXISTING

**GRADE POINTS**

POINT #	NORTHING	EASTING	ELEV.	REMARKS
1	9394.05	21091.26	58.64	EA
2	9390.11	21115.95	58.29	EA
3	9386.16	21140.64	58.21	EA
4	9382.21	21165.32	58.03	EA
5	9379.95	21179.51	57.92	EA
6	9375.77	21205.64	57.28	MTE
7	9375.35	21078.15	57.85	EA
8	9373.77	21088.02	57.73	EA
9	9365.42	21112.00	57.53	TP
10	9361.47	21136.69	57.47	TP
11	9357.53	21161.38	57.40	TP
12	9355.68	21193.36	57.50	TP
13	9351.08	21201.70	57.08	MTE
14	9352.24	21064.33	57.47	MTE
15	9350.66	21074.20	57.23	EA
16	9344.68	21083.37	57.14	TP
17	9340.73	21108.06	57.04	TP
18	9336.79	21132.74	56.91	TP
19	9332.84	21157.43	56.82	TP
20	9326.39	21197.75	56.83	MTE

**GRADE POINTS**

POINT #	NORTHING	EASTING	ELEV.	REMARKS
21	9323.16	21059.63	56.74	MTE
22	9319.99	21079.42	56.70	TP
23	9316.05	21104.11	56.63	TP
24	9312.10	21128.80	56.45	TP
25	9308.15	21153.48	56.20	TP
26	9301.71	21193.80	56.49	MTE
27	9305.98	21102.52	56.45	TP
28	9295.83	21166.06	55.80	GRATE
29	9295.33	21055.13	56.22	MTE
30	9292.16	21074.97	56.44	EA
31	9288.21	21099.67	56.77	EA
32	9285.52	21116.48	56.92	EA
33	9281.71	21131.36	56.78	EA
34	9287.76	21144.44	56.28	EA
35	9284.59	21164.27	55.95	EA
36	9281.83	21181.55	56.35	EA
37	9280.41	21190.40	56.44	MTE
38	9265.83	21128.82	57.20	EA
39	9263.94	21140.67	56.90	EA
55	9295.83	21166.06	55.80	

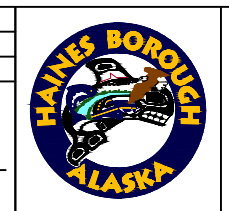


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**5TH TO 6TH AVENUE  
 DRAINAGE IMPROVEMENTS**

**SITE PLAN**

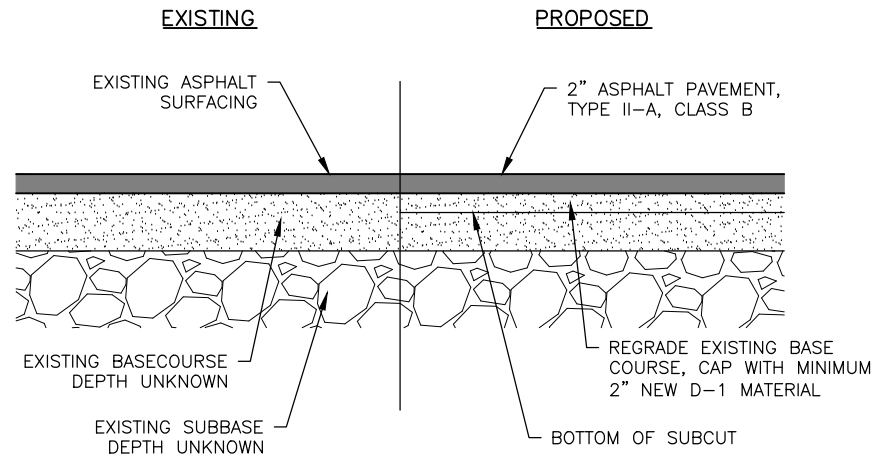
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OF
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March 29, 2024  
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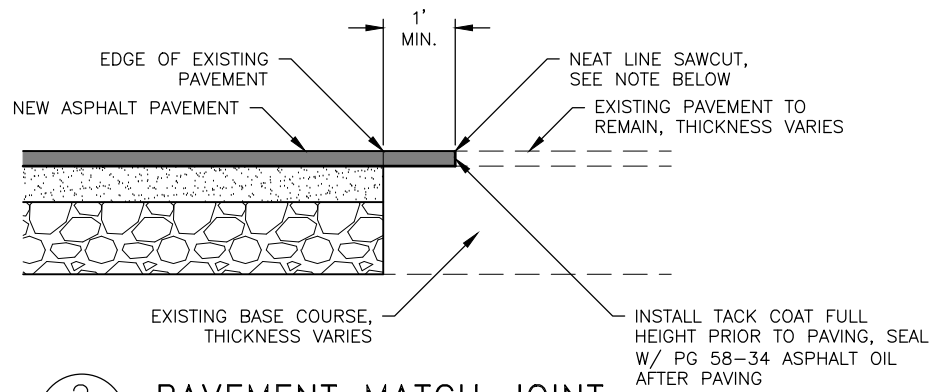
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**1**  
**5** **PARKING AREA TYPICAL SECTION**  
SCALE: NOT TO SCALE

**DETAIL 1/4 NOTES:**

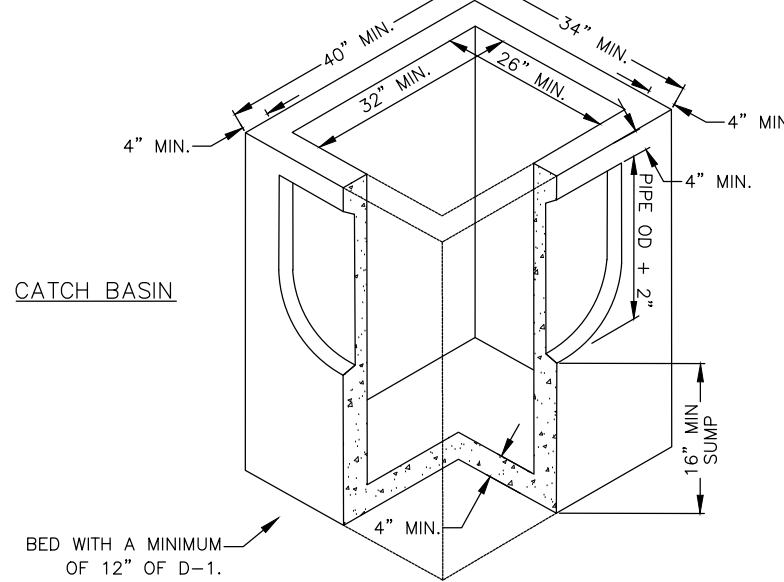
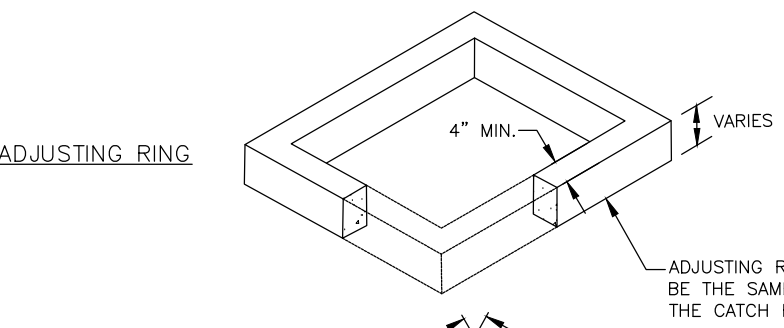
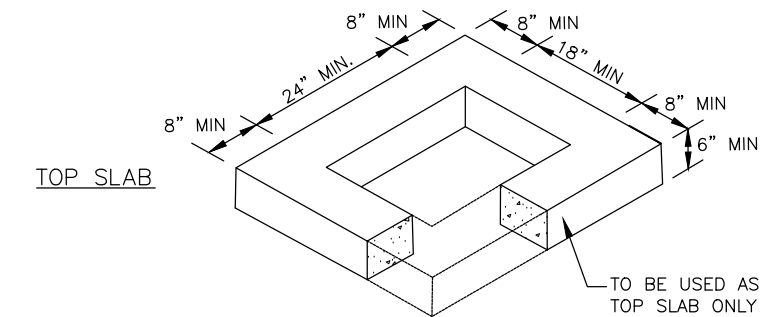
1. COMPACT D-1 BASE COURSE TO MINIMUM 95% OF MODIFIED PROCTOR DENSITY (ASTM D1557)
2. PROOF ROLL BOTTOM OF SUBCUT EXCAVATION SHALL BE PERFORMED USING A MINIMUM 10-TON SELF PROPELLED VIBRATORY COMPACTOR. A MINIMUM OF TWO (2) PASSES (ONE PASS EQUALS DOWN AND BACK) SHALL BE MADE OVER THE SUBCUT SOILS AND AS APPROVED BY THE ENGINEER.



**2**  
**5** **PAVEMENT MATCH JOINT**  
SCALE: NOT TO SCALE

**DETAIL 1/4 NOTES:**

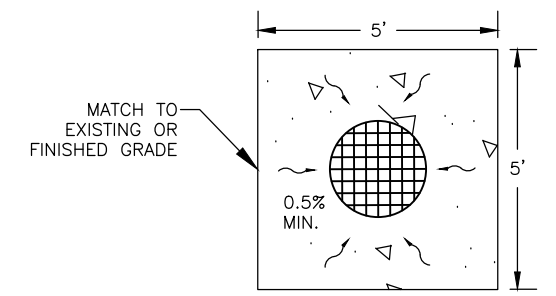
1. FINAL SAWCUT OF EXISTING ASPHALT SHALL NOT BE MADE UNTIL 24 HOURS PRIOR TO PAVING.



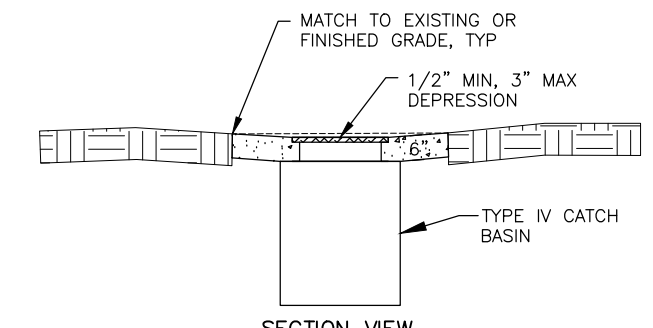
**3**  
**5** **INLET, TYPE IV**  
SCALE: NOT TO SCALE

**DETAIL 3/4 NOTES:**

1. ENTIRE KNOCKOUT IS TO BE REMOVED AND SEALED SHUT AROUND PIPE. ALL PIPES ARE TO EXTEND MIN. 1" AND MAX. 2" INTO CATCH BASIN.
2. THE AREA BETWEEN THE TOP OF THE CATCH BASIN AND THE FRAME SHALL BE FORMED AND FILLED WITH CONCRETE OR NON-SHRINK GROUT. NO BRICKS, WOOD OR OTHER MATERIALS PERMITTED FOR ADJUSTING GRADE.
3. FRAME AND GRATE SHALL BE DUCTILE IRON. FRAME MAY BE CAST INTO THE TOP UNIT OR PLACED OVER THE OPENING AS APPROVED BY THE ENGINEER. FRAME AND GRATE MUST BE OF A TYPE THAT WILL NOT CREATE A HAZARD FOR BICYCLE TRAFFIC.
4. CATCH BASIN SHALL MEET HIGHWAY STANDARD-20 LOAD REQUIREMENTS.
5. MINIMUM STEEL REQUIRED AS PER ASTM C-478-69.
6. MINIMUM SUMP DEPTH SHALL BE 16".

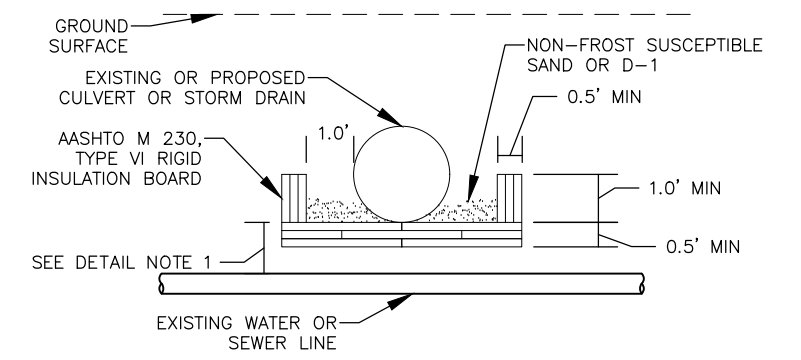


**PLAN VIEW**



**SECTION VIEW**

**4**  
**5** **CONCRETE AREA DRAIN DETAIL**  
SCALE: NOT TO SCALE



**5**  
**5** **WATER LINE INSULATION DETAILS**  
SCALE: NOT TO SCALE

**DETAIL 3/5 NOTES:**

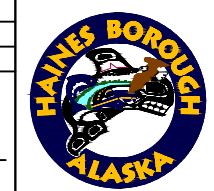
1. INSTALL INSULATION AS SHOWN WHEN DISTANCE IS LESS THAN 6.0'.
2. PIPE INSULATION SHALL BE 8'-0" IN LENGTH, CENTERED OVER WATER LINE OR WATER SERVICE.
3. PIPE INSULATION WITH R-FACTOR EQUAL TO RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
4. CROSSING SHALL BE PROTECTED WITH A MINIMUM 6" OF INSULATION BOARDS WITH A 12" OVERLAP, AS SHOWN.

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**5TH TO 6TH AVENUE  
DRAINAGE IMPROVEMENTS**

**CONSTRUCTION  
DETAILS**

**SHEET NUMBER**  
**5**  
OF  
**5**