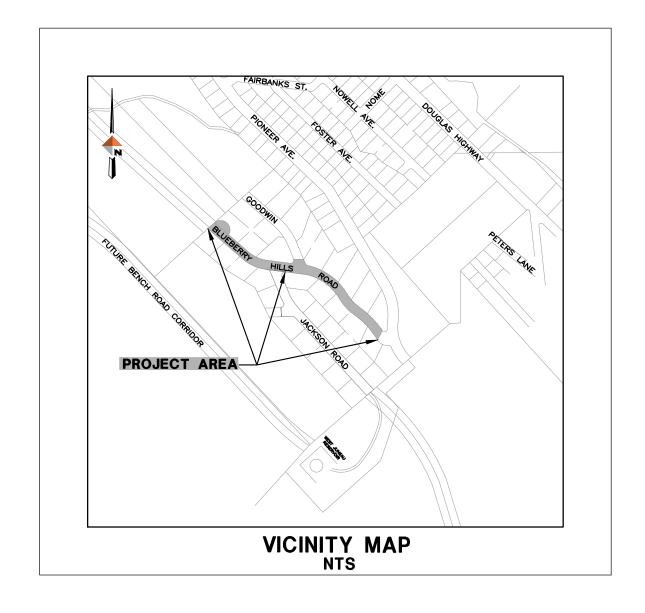
BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139







PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BOULEVARD JUNEAU, ALASKA 99801 907-780-3533 AECL848

Consulting Engineers • Land Surveyors • Construction Administration

ABBREVIATIONS

AC	ASPHALT PAVING
BVC	BEGIN VERTICAL CURVE
СВ	CATCH BASIN
СМР	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
EVC	END VERTICAL CURVE
FG	FINISHED GRADE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LG	LIP OF GUTTER
LP	LOW POINT
LT	LEFT
мн	MANHOLE
MN	MAGNETIC NAIL
MN MTE	MAGNETIC NAIL MATCH TO EXISTING
МТЕ	MATCH TO EXISTING
MTE NO	MATCH TO EXISTING NUMBER
MTE NO NTS	MATCH TO EXISTING NUMBER NOT TO SCALE
MTE NO NTS PC	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE
MTE NO NTS PC PRC	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE
MTE NO NTS PC PRC PSI	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH
MTE NO NTS PC PRC PSI PT	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT
MTE NO NTS PC PRC PSI PT PVC	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE
MTE NO NTS PC PRC PSI PT PVC PVI	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION
MTE NO NTS PC PRC PSI PT PVC PVI RT	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT
MTE NO NTS PC PRC PSI PT PVC PVI RT STA	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT STATION
MTE NO NTS PC PRC PSI PT PVC PVI RT STA STD	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT STATION STANDARD
MTE NO NTS PC PRC PSI PT PVC PVI RT STA STD TBC	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT STATION STANDARD TOP BACK OF CURB
MTE NO NTS PC PRC PSI PT PVC PVI RT STA STD TBC	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT STATION STANDARD TOP BACK OF CURB TOP BACK OF GUTTER
MTE NO NTS PC PRC PSI PT PVC PVI RT STA STD TBC TBG TP	MATCH TO EXISTING NUMBER NOT TO SCALE POINT OF CURVATURE POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION RIGHT STATION STANDARD TOP BACK OF CURB TOP BACK OF GUTTER TOP OF PAVEMENT

ABBREVIATIONS TO BE USED WITHOUT

GENERAL NOTES

- BEGIN SUBCUT AT 24 INCHES FROM PAVEMENT SAWCUT LINE AT STREET CONNECTIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR DIRECTED BY THE ENGINEER. REMOVE AND REPLACE BASE COURSE WITH 6 INCHES OF 2" MINUS SHOT ROCK/BASE COURSE TO 12 INCHES FROM PAVEMENT SAWCUT LINE. SAWCUT AS NECESSARY ALONG ALL STREET AND DRIVEWAY APPROACHES TO PROVIDE A NEAT
- 2. LARGE BOULDERS, BEDROCK, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING AND ROADWAY EXCAVATION OPERATIONS. THESE MATERIALS SHALL BE DISPOSED OF AS REQUIRED BY THE ENGINEER.
- 3. CONTRACTOR SHALL ASSURE GARBAGE PICKUP AND DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL RESIDENCES AFFECTED BY THIS
- 4. CBJ ENGINEERING STANDARD DETAILS 4TH EDITION AUGUST 2011, IS MADE PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS
- 5. ALL EXISTING WATER PIPES (6 INCH DIAMETER AND LARGER), AND APPURTENANCES (TO BE ABANDONED) THAT ARE WITHIN THE STREET AND SIDEWALK LIMITS, SHALL BE REMOVED AND DISPOSED OF, OR FILLED WITH FLOWABLE MIXTURE, UNLESS OTHERWISE NOTED.
- 6. EXISTING PIPE LOCATIONS ARE DERIVED FROM CBJ AS-BUILTS OR FIELD LOCATED. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. DEPTH OF SOME OF THE EXISTING PIPES SHOWN ON THE ELEVATIONS ARE ASSUMED. DIAL BEFORE YOU DIG 586-1333.
- 7. GRADING AND ALIGNMENT ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. LOCATION OF PROPOSED WATER AND STORM DRAINAGE FACILITIES ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. PROVIDE KNOCKOUTS IN CATCH BASINS FOR ALL PIPES SHOWN ON THE
- 8. THE CONTRACTOR SHALL NOTIFY STEVE LOCKS WITH CBJ WATER UTILITIES AT 321-2969 OF PROPOSED WATER SERVICE INTERRUPTION AND SUBMIT THE "WATER SYSTEM SPECIAL USE PERMIT" TO CBJ WATER UTILITIES SUPERINTENDENT FOR APPROVAL AT LEAST 48 HOURS PRIOR TO SHUTDOWN OR FLUSHING OF MAINLINE WATER PIPE. NO WATER SERVICE INTERRUPTION MAY PROCEED UNTIL THIS APPROVAL IS
- 9. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT BOUNDARY SURVEY. EXISTING RECORD PLATS DO NOT CLOSE WITH EACH OTHER IN SOME CASES. THE PROPERTY LINES SHOWN ON THESE PLANS ARE A BEST FIT APPROXIMATION OF CLOSURE.
- 10. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING WATER AND SEWER PIPES, INCLUDING ALL SERVICES ALONG THE STORM DRAIN AND WATER PIPE ALIGNMENTS, TO DETERMINE PIPE INSULATION LOCATIONS, AND TO ENSURE DAMAGE DOES NOT OCCUR TO THE
- 11. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- 12. CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. BRASS CAP MONUMENTS, REBARS, CONCRETE NAILS, CHISELED X's) PRIOR TO CONSTRUCTION AND REMONUMENT AFTER SURFACING IS REPLACED. EXISTING SURVEY MONUMENTS MAY NOT BE SHOWN ON THE DRAWINGS. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR.
- 13. ALL ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED OF SHALL BE DELIVERED TO A STOCKPILE AREA AT THE LEMON CREEK CITY PIT TO BE DESIGNATED BY THE ENGINEER. CONTACT THE ENGINEER FOR THE EXACT LOCATION OF THE STOCKPILE.
- 14. AEL&P, ACS, AND GCI MAY CONDUCT WORK WITHIN THE PROJECT LIMITS TO RELOCATE UTILITIES AND UPGRADE THEIR RESPECTIVE SYSTEMS. THE CONTRACTOR SHALL COORDINATE ITS ACTIVITIES WITH EACH UTILITY COMPANY AND PROVIDE ACCESS AS NECESSARY FOR UTILITY COMPANIES TO CONDUCT THEIR WORK
- 15. ONLY HORIZONTAL ELBOW FITTINGS (BENDS) ARE SHOWN (NOT ALL ARE LABELED) ON DRAWINGS. ADDITIONAL FITTINGS WILL BE REQUIRED FOR VERTICAL DEFLECTIONS NEAR CONNECTIONS TO EXISTING PIPES, AND AT OTHER LOCATIONS REQUIRING GRADE CHANGES TO
- 16. THE CONTRACTOR SHALL RESTRICT ITS COMPACTION AND OTHER VIBRATION INDUCING OPERATIONS AS NECESSARY TO ASSURE NO DAMAGE OCCURS TO ADJACENT BUILDINGS OR STRUCTURES. REFER TO SECTION 01530, ARTICLE 1.7 OF THE STANDARD SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- 17. THE PLAN DRAWINGS DO NOT SHOW ALL TREES, BUSHES AND LANDSCAPING THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES, BUSHES OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED
- 18. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
- 19. THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH ADJUSTING RINGS, BRICKS, WOOD, STONES AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED. SEE THE STANDARD DETAILS AND SECTION 02502 STORM SEWER MANHOLES, INLETS AND CATCH BASINS FOR CATCH BASIN SUPPORT REQUIREMENTS. CATCH BASIN FRAME AND GRATES SHALL BE SET AT 6-3/4" BELOW TOP BACK OF CURB ELEVATION, WITH 3' LONG CONCERN CULTER TRANSITIONS TO BOTH SIDES OF CRATE CONCRETE GUTTER TRANSITIONS TO BOTH SIDES OF GRATE.
- 20. TEMPORARY RAMPS SHALL BE PROVIDED AS REQUIRED FOR RESIDENT ACCESS TO THEIR WALKWAYS DURING THE CONSTRUCTION PERIOD.
- 21. THE CONTRACTOR SHALL ARRANGE FOR ELECTRICAL UTILITY LOCATES PRIOR TO ANY EXCAVATION. UNDERGROUND ELECTRICAL UTILITIES, IF SHOWN ON THE DRAWINGS, INDICATE THEIR EXISTENCE ONLY, AND MAY NOT SHOW THE ACTUAL LOCATION. OTHER BURIED ELECTRICAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE DRAWINGS. DIAL BEFORE YOU DIG AT 586-1333.
- 22. WATER PIPES WILL BE REQUIRED TO BE INSTALLED WITH MORE THAN 60 INCHES OF COVER IN AREAS WHERE STORM DRAINAGE PIPES ARE CLOSE TO OR BELOW A DEPTH OF 60 INCHES TO INVERT. DEPTHS OF ALL STORM DRAINAGE PIPES SHALL BE DETERMINED PRIOR TO INSTALLING WATER PIPES TO ENSURE CONFLICTS BETWEEN THESE PIPES DO NOT OCCUR. A MINIMUM CLEARANCE OF 8" SHALL BE OBTAINED BETWEEN WATER AND OTHER PIPES
- 23. THE CONTRACTOR SHALL PROVIDE TOP OF WATER PIPE ELEVATIONS TO THE ENGINEER AT A MAXIMUM SPACING OF 50 FEET AND AT ALL GRADE BREAKS PRIOR TO BACKFILLING OVER THE PIPE. IF THE PIPE IS BACKFILLED PRIOR TO PROVIDING THESE TOP OF PIPE ELEVATIONS, THE PIPE SHALL BE EXPOSED AND THE TOP OF PIPE SURVEYED BY THE CONTRACTOR.
- 24. THE CONTRACTOR SHALL NOTIFY EACH RESIDENT OF EACH DRIVEWAY CLOSURE THE DAY PRECEDING THE DAY THE DRIVEWAY IS TO BE CLOSED TO VEHICULAR ACCESS. THE RESIDENT 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.
- 25. EXISTING POWER CONDUCTORS FOR LIGHTING SYSTEM HAVE NOT BEEN LOCATED AND ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE THESE CONDUCTORS LOCATED AND SHALL PROTECT THEM FROM DAMAGE.



LEGEND



JOB No. 70890.01 DRAWN BY: J. KEMP DESIGNED BY: J. KANOUSE CHECKED BY: N. HOBBS DATE: JAN. 2017

PLANS DEVELOPED BY: 5368 COMMERCIAL BOULEVARD JUNEAU, ALASKA 99801 907-780-3533 AECL848 Consulting Engineers • Land Surveyors • Construction Administration



PERIODS

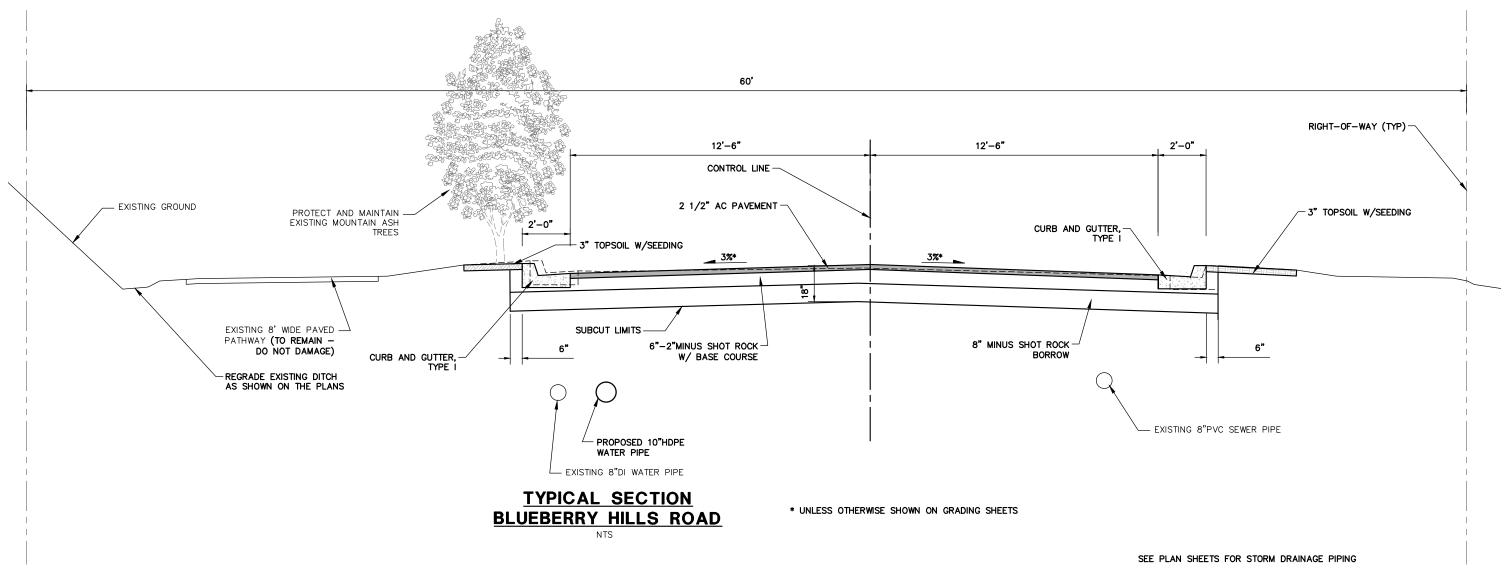
BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139

LEGEND, ABREVIATIONS, AND GENERAL NOTES

SHEET NO

OT





NOTES FOR TYPICAL SECTIONS THIS SHEET

- 1. ADDITIONAL EXCAVATION BELOW THE NEATLINE SUBCUT LEVEL MAY BE REQUIRED, IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL, AS DIRECTED BY THE ENGINEER. USABLE MATERIAL FROM EXCAVATION SHALL BE USED TO BACKFILL THE ADDITIONAL AREAS OF EXCAVATION, WHICH MAY VARY FROM 6" IN DEPTH TO A DEPTH OF UP TO 5'-0" BELOW FINISH GRADE. THE BACKFILLING WITH USABLE MATERIAL FROM EXCAVATION WILL BE CONSIDERED INCIDENTAL TO OTHER WORK.
- 2. IF EXISTING SOILS WITHIN THE PLANNED SUBCUT LAYER ARE FOUND TO BE USABLE, AS DETERMINED BY THE ENGINEER, THE DEPTH OF EXCAVATION AND BACKFILL MAY BE DECREASED.
- 3. SEE HORIZONTAL AND VERTICAL CONTROL, CURB AND GUTTER LAYOUT AND GRADE DRAWINGS FOR GRADING DETAILS.
- 4. UNDERGROUND ELECTRICAL, SANITARY SEWER, STORM DRAIN, AND WATER AND SERVICES NOT SHOWN IN THE TYPICAL SECTION. SEE PLAN SHEETS FOR APPROXIMATE LOCATIONS.
- 5. ALL FILL AREAS BEYOND SUBCUT LIMITS SHALL BE BACKFILLED WITH USABLE MATERIAL FROM EXCAVATION AND GRADED TO DRAIN AS SHOWN ON THE PLAN VIEW DRAWINGS.
- 6. DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO EQUAL, OR BETTER CONDITION WITH SUBGRADE REPLACED IN LAYERS TO MATCH THOSE REMOVED EXCEPT:
 - A) PAVED DRIVEWAYS SHALL BE SUBCUT TO 18 INCHES BELOW FINISH GRADE AND REPLACED WITH 11-1/2 INCHES OF SHOT ROCK BORROW, 4 INCHES OF 2"- MINUS SHOT ROCK WITH BASE COURSE, AND 2-1/2 INCHES OF A.C. PAVEMENT FOR DRÍVEWAYS.
- B) ALL WORK REQUIRED TO RECONSTRUCT GRAVEL DRIVEWAYS BEYOND THE BACK OF EXISTING CURB WILL BE CONSIDERED INCIDENTAL TO OTHER WORK AND NO ADDITIONAL PAYMENT WILL BE MADE.

- C) ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN THE DRIVEWAYS DURING EXCAVATION OPERATIONS SHALL NOT BE REPLACED, BUT SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE. BACKFILL VOIDS BELOW THE REQUIRED SUBBASE LAYER WITH USABLE MATERIAL FROM EXCAVATION.
- 7. TOP OF A.C PAVEMENT SHALL BE 1/4 INCH TO 1/8 INCH ABOVE THE TOP EDGE OF CONCRETE GUTTER OR TOP OF CURB. TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE 1/4 BELOW ACTUAL FINISH PAVEMENT SURFACE.
- 8. SANITARY SEWER, WATER AND STORM DRAIN SERVICES ARE NOT SHOWN ON THE TYPICAL SECTION. SEE PLAN VIEW DRAWINGS FOR LOCATIONS.
- 9. GRADE TOP OF CURB AT 2%.
- 10. THE BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL THICKNESS OF 6". THE 2" MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE GRADING D-1.
- 11. BASE COURSE, GRADING D-1, MAY BE USED FOR THE FULL DEPTH OF THE BASE COURSE UNDER THE PAVED DRIVEWAYS AS A NO COST
- 12. CATCH LINE FOR USABLE MATERIAL AND TOPSOIL WILL VARY IN DISTANCE FROM RIGHT-OF-WAY LINES. PLACE AND GRADE THESE MATERIALS TO PROVIDE A SMOOTH, WELL DRAINED TRANSITION TO EXISTING GRADES, AS DIRECTED BY THE ENGINEER.
- 13. ASPHALT THICKNESS FOR DRIVEWAY APPROACHES AND DRIVEWAYS SHALL BE 2 1/2".
- 14. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES NOT RESURFACED WITH ASPHALT PAVEMENT OR CONCRETE SHALL BE GRADED TO A UNIFORM, WELL DRAINED APPEARANCE AND COVERED WITH TOPSOIL AND SEEDED, AS DIRECTED BY THE ENGINEER.





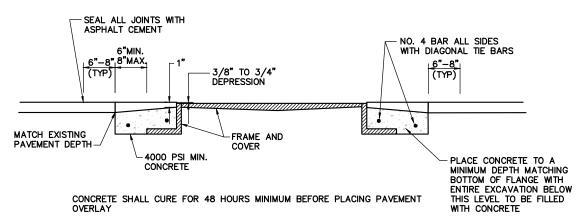
PLANS DEVELOPED BY: 5368 COMMERCIAL BOULEVARD JUNEAU, ALASKA 99801 907-780-3533 AECL848

CITY/BOROUGH OF JUNEAU 🖈 Alaska's Capital City DEPARTMENT OF ENGINEERING

BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139

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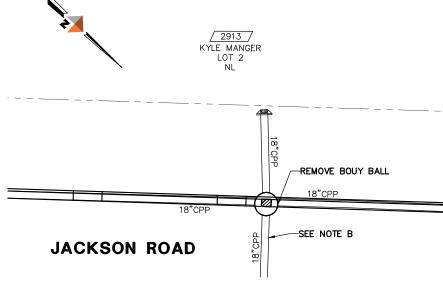
SHEET NO.



*THIS TRANSITION SLAB WILL NOT BE REQUIRED IF DEPRESSION TO COVER LUGS OR FRAME, WHICHEVER IS HIGHER, MEETS THE REQUIRED DEPRESSION RANGE FOLLOWING THE FINISH PAVING OPERATIONS

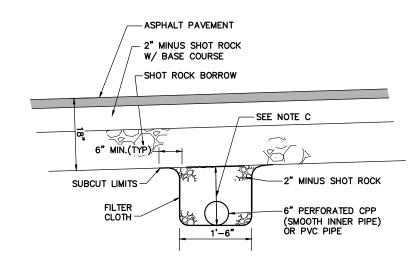
TRANSITION SLAB W/ ASPHALT PAVEMENT OVERLAY

NTS



CATCH BASIN JACKSON ROAD STA "B" 14+47, 308' LT

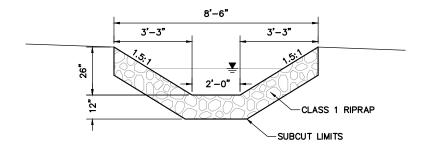
- A. REMOVE EXISTING BOUY BALL IN THE NW 18" CPP
- B. COMPLETELY SEAL 18"CPP CROSSING JACKSON ROAD WITH CONCRETE PLUG.



6-INCH UNDERDRAIN

NTS

- A. OUTFALL CONNECTIONS WILL BE INTO CATCH BASINS.
- B. UPPER END OF PIPES SHALL BE CAPPED AND THE FILTER CLOTH FOLDED AND OVERLAPPED TO SEAL END OF DRAINAGE ROCK SECTION. VARIES AS DIRECTED BY THE FNGINEFR.
- C. VARIES 12" TO 30", AS DETERMINED BY THE ENGINEER.
- D. MINIMUM PIPE GRADIENT SHALL BE 1%.
- E. ADDITIONAL LENGTH MAY BE ADDED, AS DETERMINED BY THE ENGINEER.



DRAINAGE SWALE FROM S-1 TO BOP





PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BOULEVARD
JUNEAU, ALASKA 99801
907-780-3533
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JOB No. 70890.01 | DRAWN BY: J. KEMP | DESIGNED BY: J. KANOUSE | CHECKED BY: N. HOBBS | DATE: JAN. 2017



BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139

DETAILS

SHEET NO.

4

Of

SIGN ASSEMBLY TABLE				
NO.	LOCATION	MUTCD DESIGNATION OR DESCRIPTION	LEGEND AND COMMENTS	
1	17+83, 17' LT	R7-1	"NO PARKING ANYTIME" (12"X18") DOUBLE ARROW — REUSE EXISTING SIGN	
2	20+60, 17' LT	R7-1	"NO PARKING ANYTIME" (12"X18") DOUBLE ARROW - REUSE EXISTING SIGN	
3	22+88, 17' LT	R7-1	"NO PARKING ANYTIME" (12"X18") DOUBLE ARROW - REUSE EXISTING SIGN	
A) ALL SIGNS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY & BOROUGH STANDARD DETAIL NO. 127.				

- B) ALL SIGNS TO BE LOCATED AS DIRECTED BY THE ENGINEER.
- C) ALL POSTS SHALL BE "TELSPAR", OR APPROVED EQUAL.
- D) POSTS SHALL BE PRE-PUNCHED WITH ALL KNOCKOUTS REMOVED.
- E) REPLACE ALL POST ASSEMBLY MATERIALS.
- F) DO NOT DISTURB ANY SIGNS NOT ON THE SIGN ASSEMBLY TABLE.

CATCH BASIN FRAME AND GRATE TABLE

CATCH BASIN No.	EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY CO., CBJ STANDARD No., OR APPROVED EQUAL
CB-1	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-2	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-3	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-4	EJW 7001 T2 HOOD W/7700 M3 GRATE
CB-5	EJW 7001 T2 HOOD W/7700 M3 GRATE
CB-6	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-7	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-8	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-9	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-10	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-11	EJW 7001 T2 HOOD W/7700 M2 GRATE
CB-12	EJW 7001 T2 HOOD W/7700 M3 GRATE

CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL COVERS SHALL BE HEAVY DUTY CONSTRUCTION AND BICYCLE SAFE. ALL FRAMES AND GRATES SHALL BE DUCTILE IRON.

LOCAL FLOW LINE DEPRESSION AT CATCH BASIN SHALL BE 34 INCH, WITH 36" TRANSITIONS TO EACH SIDE OF FRAME, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

RECONSTRUCT MAILBOX TABLE

HOUSE NUMBER	LOCATION	COMMENTS
2906	STA "B" 11+67, 14.5 LT	SINGLE
2909	STA "B" 13+57, 14.5 LT	SINGLE
2913	STA "B" 14+72, 14.5 LT	SINGLE
2917	STA "B" 15+67, 14.5 LT	SINGLE
2918	STA "B" 15+96, 14.5 RT	SINGLE
3000	STA "B" 18+97, 14.6 RT	SINGLE
2999 / 3000	STA "B" 21+11, 14.5 LT	GANG
3005	STA "B" 21+61, 14.5 LT	SINGLE
3004	STA "B" 21+97, 14.5 RT	SINGLE
3013	STA "B" 23+68, 23 LT	SINGLE
3025 / 3031	STA "B" 24+27, 33 LT	GANG
3010	STA "B" 24+36, 23 LT	SINGLE
	-	

CONTRACTOR SHALL STAKE MAILBOX POST LOCATION, FOR APPROVAL BY THE

REINSTALL EXISTING MAILBOX AND NEWSPAPER RECEPTACLES TO NEW POST ASSEMBLIES. IF THE RECEPTACLES ARE DAMAGED BY THE CONTRACTOR, NEW RECEPTACLES OF SAME SIZE AND COLOR AND NEW HOUSE NUMBERS SHALL BE PROVIDED BY THE CONTRACTOR.

GANG MAILBOX ASSEMBLIES SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 2719.1. RECONSTRUCT MAILBOX, AS ONE PAY UNIT.

MAIL DELIVERY SERVICE SHALL NOT BE INTERRUPTED AND ACCESS TO EACH MAILBOX RECEPTACLE SHALL BE AVAILABLE TO THE UNITED STATES POSTAL SERVICE AND THE RESIDENTS AT ALL TIMES.

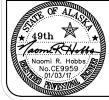
EXISTING MAILBOXES THAT ARE MOVED BY THE CONTRACTOR SHALL HAVE TEMPORARY SUPPORTS PROVIDED AS REQUIRED FOR CONTINUED USAGE.

PAVING SEQUENCE REQUIREMENTS:

LAYDOWN OPERATIONS SHALL BE CONDUCTED IN A MANNER WHICH ENSURES THAT THE MINIMUM TEMPERATURE ALONG THE CENTERLINE EDGE OF THE FIRST PAVED LANE DOES NOT FALL BELOW 150°F BEFORE THE SECOND LANE

NOTES FOR TRAFFIC CONTROL:

- ALL TRAFFIC TO BE CONTROLLED PER THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL (U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ALASKA SUPPLEMENT).
- · ALL DETOURS SHALL BE AS APPROVED BY THE ENGINEER.
- · ROAD CLOSURES WILL BE PERMITTED ONLY AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR WILL NOT BE PERMITTED TO OBSTRUCT VEHICULAR TRAFFIC BETWEEN THE HOURS OF 4:30pm AND 8:00am SEVEN DAYS A WEEK. DURING THIS PERIOD, TWO LANES SHALL BE OPEN TO VEHICULAR TRAFFIC AND WITH A MINIMUM TOTAL WIDTH OF 18 FEET.
- · PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
- . A MINIMUM OF ONE LANE (11 FOOT MINIMUM WIDTH) SHALL BE KEPT OPEN TO VEHICULAR TRAFFIC AT ALL TIMES, EXCEPT A FIVE (5) MINUTE MAXIMUM STOPPAGE TO VEHICULAR TRAFFIC WILL BE PERMITTED, WITH NO MORE THAN ONE TRAFFIC STOPPAGE PER HOUR. THIS REQUIREMENT DOES NOT APPLY FOR THE DAY OF PAVING.
- PEDESTRIAN TRAFFIC SHALL BE AVAILABLE ALONG AT LEAST ONE SIDE OF THE STREET AT ALL TIMES. THE PEDESTRIAN PATHWAY SHALL BE CLEARLY MARKED AND SHALL SATISFY THE REQUIREMENTS AS DESCRIBED IN THE





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TRAFFIC CONTROL NOTES, TABLES, AND PAVING **SEQUENCE REQUIREMENTS**

SHEET NO.

- 1. ANODES SHALL BE 18# BARE WEIGHT ZINC WITH PREPACKAGED ANODE BACKFILL
- 2. ACCEPTABLE ANODE MODELS ARE: a.MODEL NO. ZUR-18 FROM FARWEST INDUSTRIES b.MODEL S18 FROM MESA PRODUCTS
- 3. INSTALL TYPE, SIZE, AND NUMBER OF ANODES SPECIFIED.
- 4. INSTALL 2 ANODES TO ALL CONNECTIONS TO EXISTING C.I. OR D.I. PIPE 12-INCH DIAMETER AND LARGER.
- 5. CONDUCTOR WIRE SHALL BE A MINIMUM SIZE OF 12 AWG STRANDED COPPER WITH INSULATION SUITABLE FOR WET LOCATION DIRECT BURIAL AND SHALL BE A MINIMUM OF 10 FEET LONG FROM ANODE.
- 6. PREPACKAGED ANODE SHALL BE SATURATED WITH WATER PRIOR TO BACKFILL.
- 7. ANODES SHALL BE PLACED IN NATIVE EARTH BACKFILL. DO NOT PLACE IN PIPE BEDDING MATERIAL.

THERMITE (EXOTHERMIC) WELDING

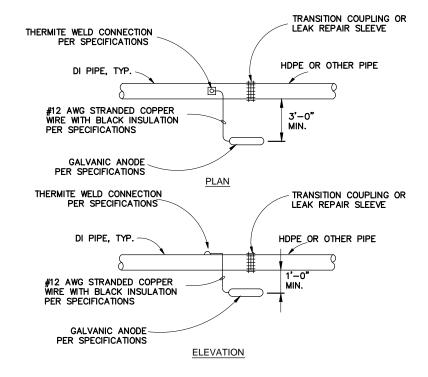
- THERMITE WELD MATERIALS SHALL BE DESIGNED FOR CONNECTION OF COPPER TO DUCTILE IRON AND CAST IRON SURFACES AND SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- ACCEPTABLE MANUFACTURES OF THERMITE WELD PRODUCTS ARE:
 a.CADWELD BY ERICO PRODUCTS INC.
 b.THERMOWELD BY CONTINENTAL INDUSTRIES INC.
 ACCEPTABLE FOLIA!
- 3. A 2-INCH SQUARE AREA IN THE PIPE SURFACE SHALL BE GROUND CLEAN PER MANUFACTURERS RECOMMENDATIONS PRIOR TO THERMITE WELDING.
- 4. WIRE ENDS SHALL HAVE PROPER ADAPTER SLEEVES TO ENSURE PROPER BOND. 12 AWG SHALL HAVE ADAPTER SLEEVES SPECIFIED BY THERMITE WELD MANUFACTURER. FIELD INSTALLED SLEEVES SHALL HAVE WIRE CONDUCTOR EXTEND 1/4-INCH BEYOND ENDS OF SLEEVE.
- 5. WIRE CONNECTION SHALL BE TESTED FOR INTEGRITY PRIOR TO COATING.
- 6. CONTINUITY STRAPS SHALL BE #2 AWG COPPER STRANDED WIRE WITH THW INSULATION AND SHALL BE ATTACHED TO THE PIPE BY THERMITE WELDING AND COATED AND SEALED AS DESCRIBED BELOW.

COATING AND SEALING

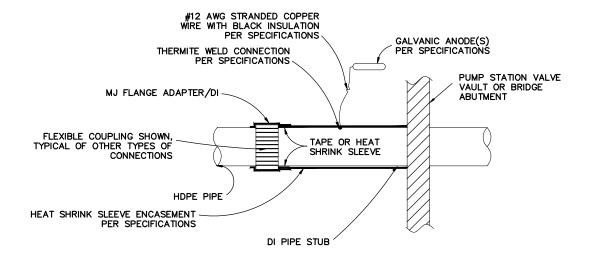
- 1. ALL THERMITE WELDS SHALL BE PROTECTED AND SEALED BY:

 a.PREFABRICATED THERMITE WELD CAPS, SIZED ACCORDING TO WIRE SIZE, MINIMUM DIMENSIONS OF 4-INCH BY 4-INCH FILLED WITH ELASTOMERIC MASTIC COATING OR,

 b.HEAT SHRINK SLEEVE PIPE ENCASEMENT AFTER COATING THERMITE WELD WITH ELASTOMERIC MASTIC COATING HEAT SHRINK SLEEVE SHALL BE CANUSA AQUA SEAL OR APPROVED EQUAL.
- 2. ALL PIPE SURFACE COATING DAMAGED BEYOND THE WELD CAPS OR HEAT SHRINK SHALL BE COATED WITH PROTAL 7125 FROM DENSO NORTH AMERICA OR APPROVED EQUAL.



GALVANIC ANODE INSTALLATION FOR METALLIC PIPE CONNECTIONS TO HDPE PIPE NTB



ENCASED METAL PIPE STUB BETWEEN
HDPE PIPE AND FLEXIBLE COUPLING AT
CONCRETE STRUCTURE CONNECTIONS
NTS





PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BOULEVARD JUNEAU, ALASKA 99801 907–780–3533 AECL848

CITY/BOROUGH OF JUHEAU
ALASEA'S CAPITAL CITY

DEPARTMENT OF ENGINEERING

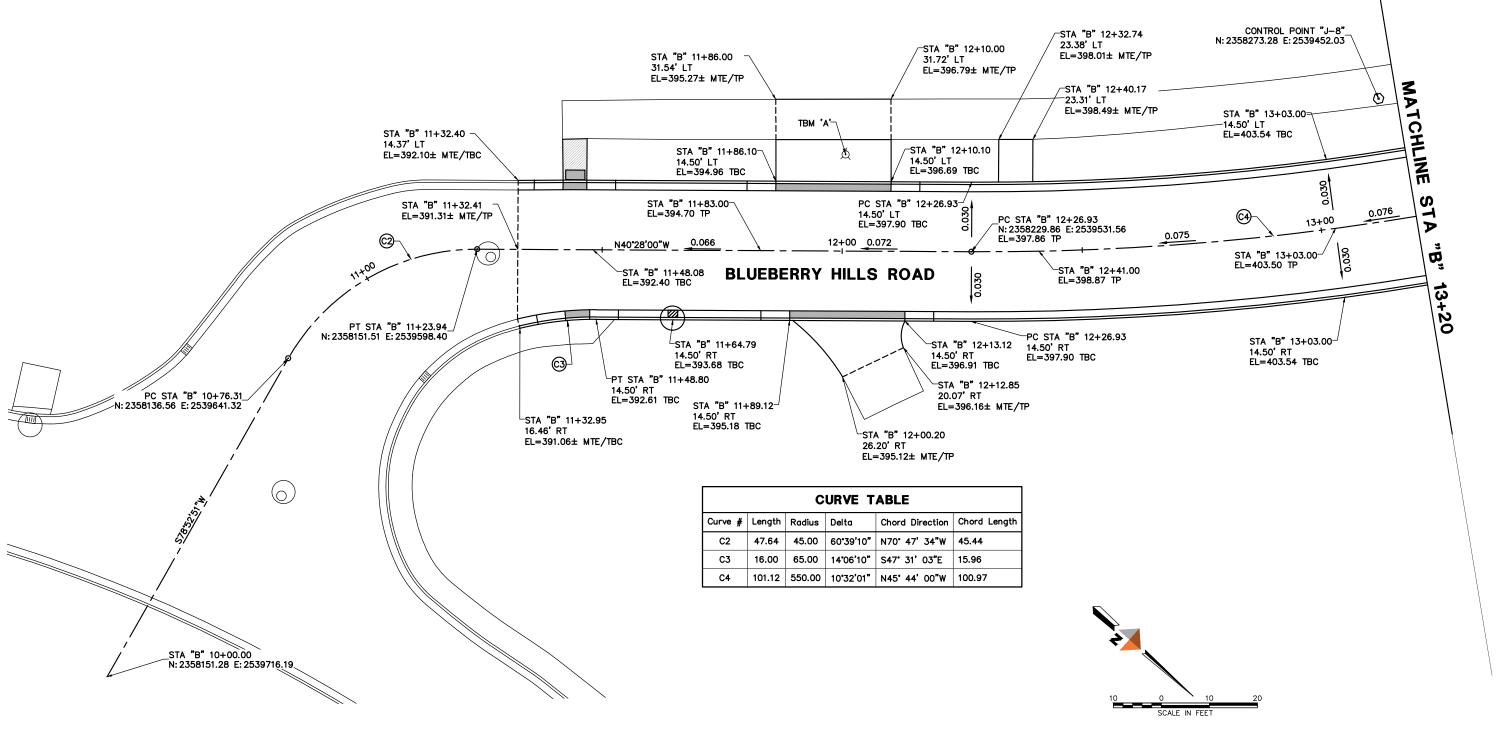
RECONSTRUCTION
CONTRACT NO. BE17-139

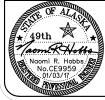
CORROSION PROTECTION DETAILS

NOTES:

- STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF PAVEMENT ARE TP.
- 2. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
- ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING ROAD CENTERLINE THROUGH VERTICAL CONTROL POINTS.
- 4. SHADED SEGMENTS SHOW LIMITS OF FULL DRIVEWAY DEPRESSIONS.

VERTICAL CONTROL			
TBM No.	ELEVATION	DESCRIPTION	
A	398.74	MOST SOUTH BOLT ON TOP FLANGE OF FIRE HYDRANT @ 2906 BLUEBERRY HILLS ROAD	
В	413.77	MOST NORTHEAST BOLT ON TOP FLANGE OF FIRE HYDRANT @ 2917 BLUEBERRY HILLS ROAD	
С	438.99	MOST NORTH BOLT ON TOP FLANGE OF FIRE HYDRANT @ 3005 BLUEBERRY HILLS ROAD	







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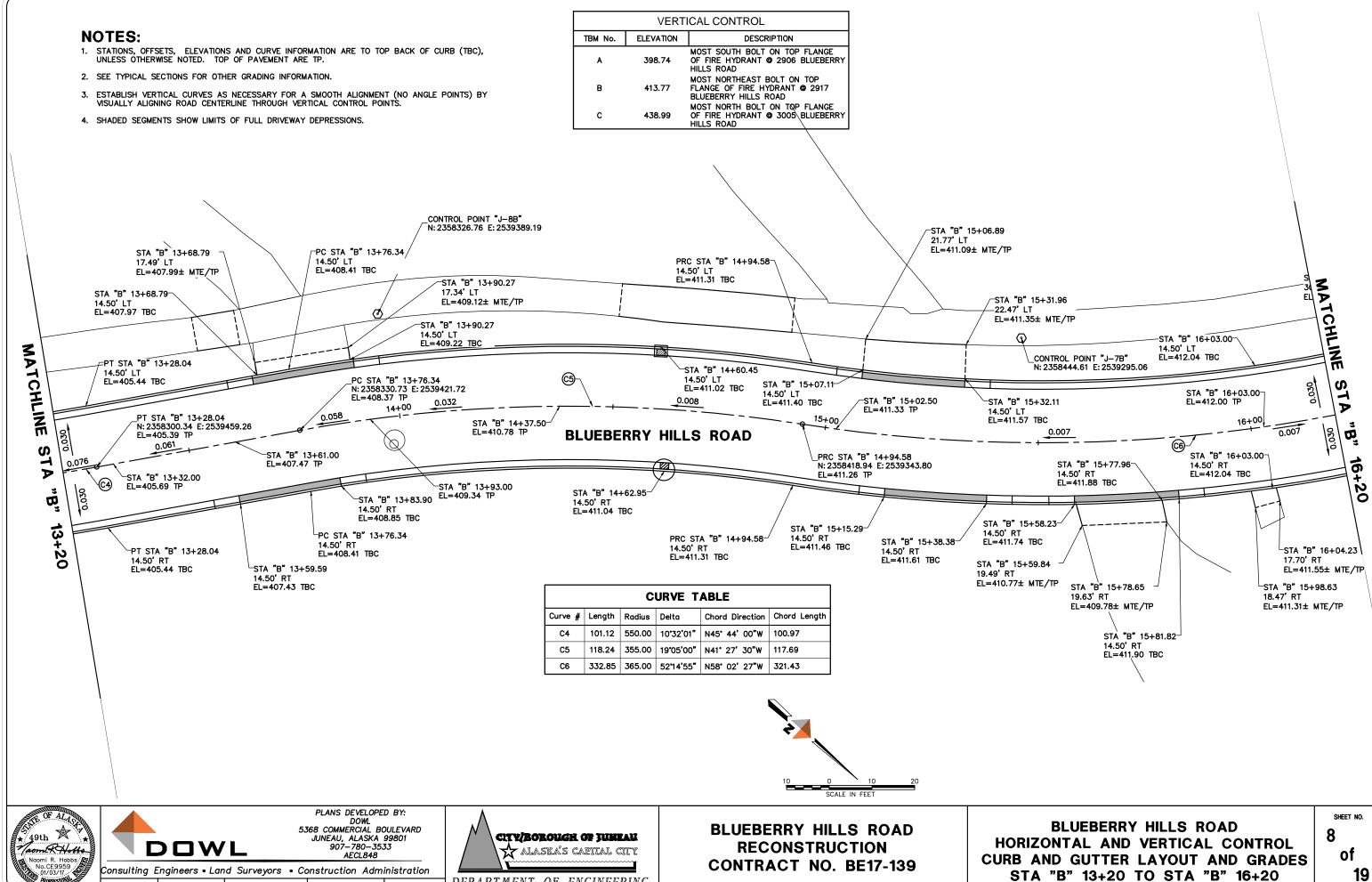
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JOB No. 70890.01 | DRAWN BY: J. KEMP | DESIGNED BY: J. KANOUSE | CHECKED BY: N. HOBBS | DATE: JAN. 2017



BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139 BLUEBERRY HILLS ROAD
HORIZONTAL AND VERTICAL CONTROL
CURB AND GUTTER LAYOUT AND GRADES
PIONEER AVENUE TO STA "B" 13+20

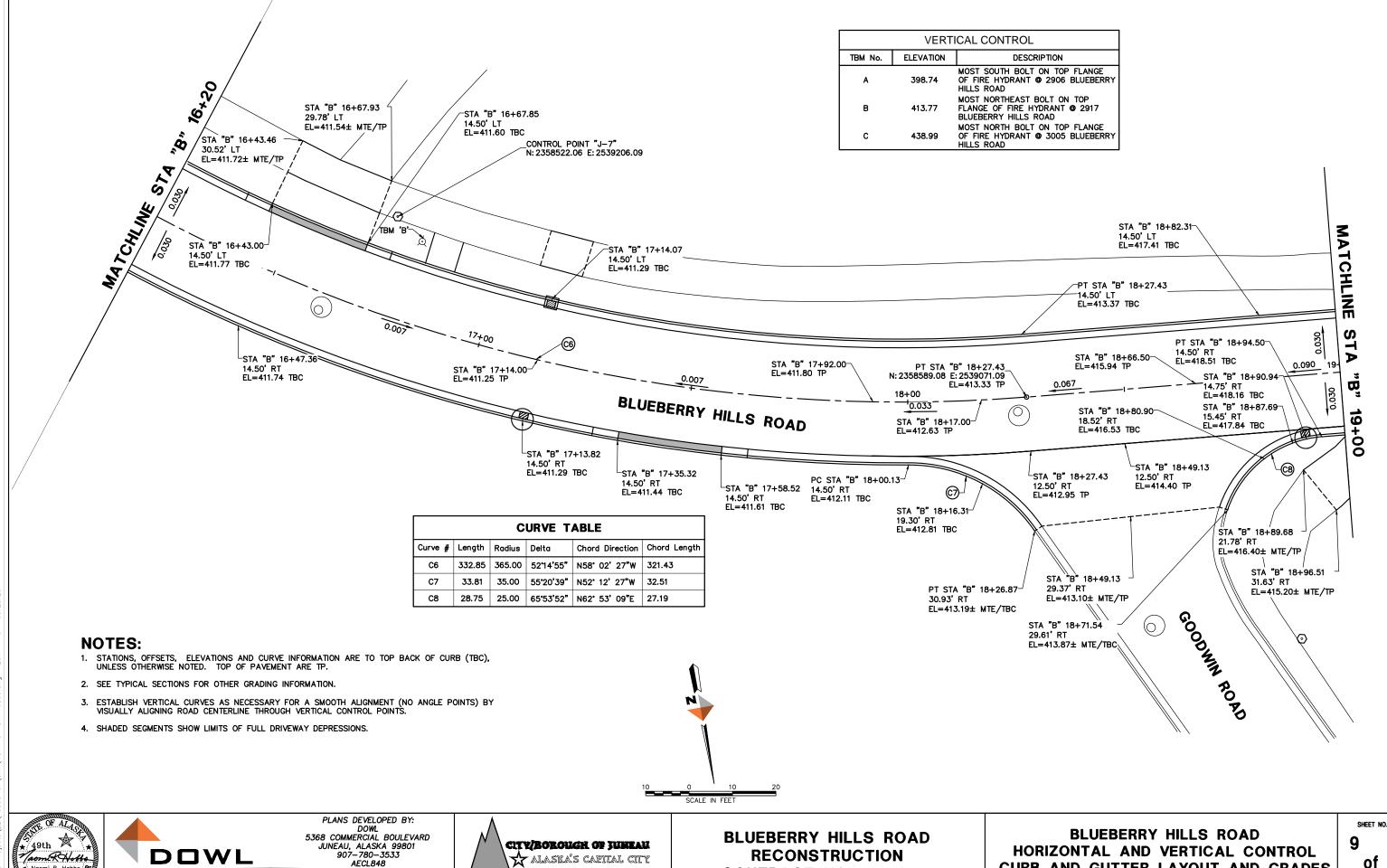
SHEET NO.
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Of



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STA "B" 13+20 TO STA "B" 16+20



CONTRACT NO. BE17-139

CURB AND GUTTER LAYOUT AND GRADES

STA "B" 16+20 TO STA "B" 19+00

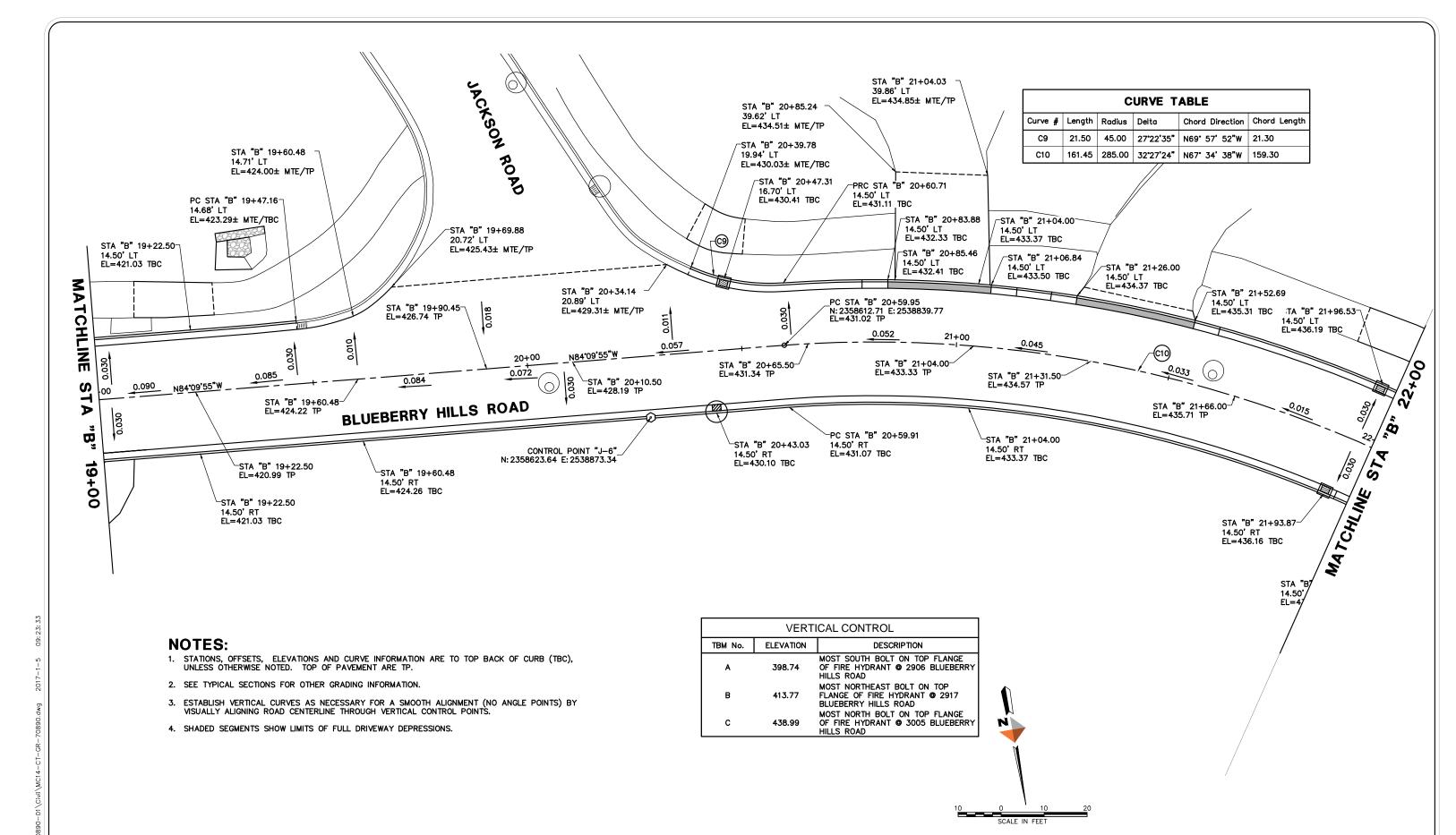
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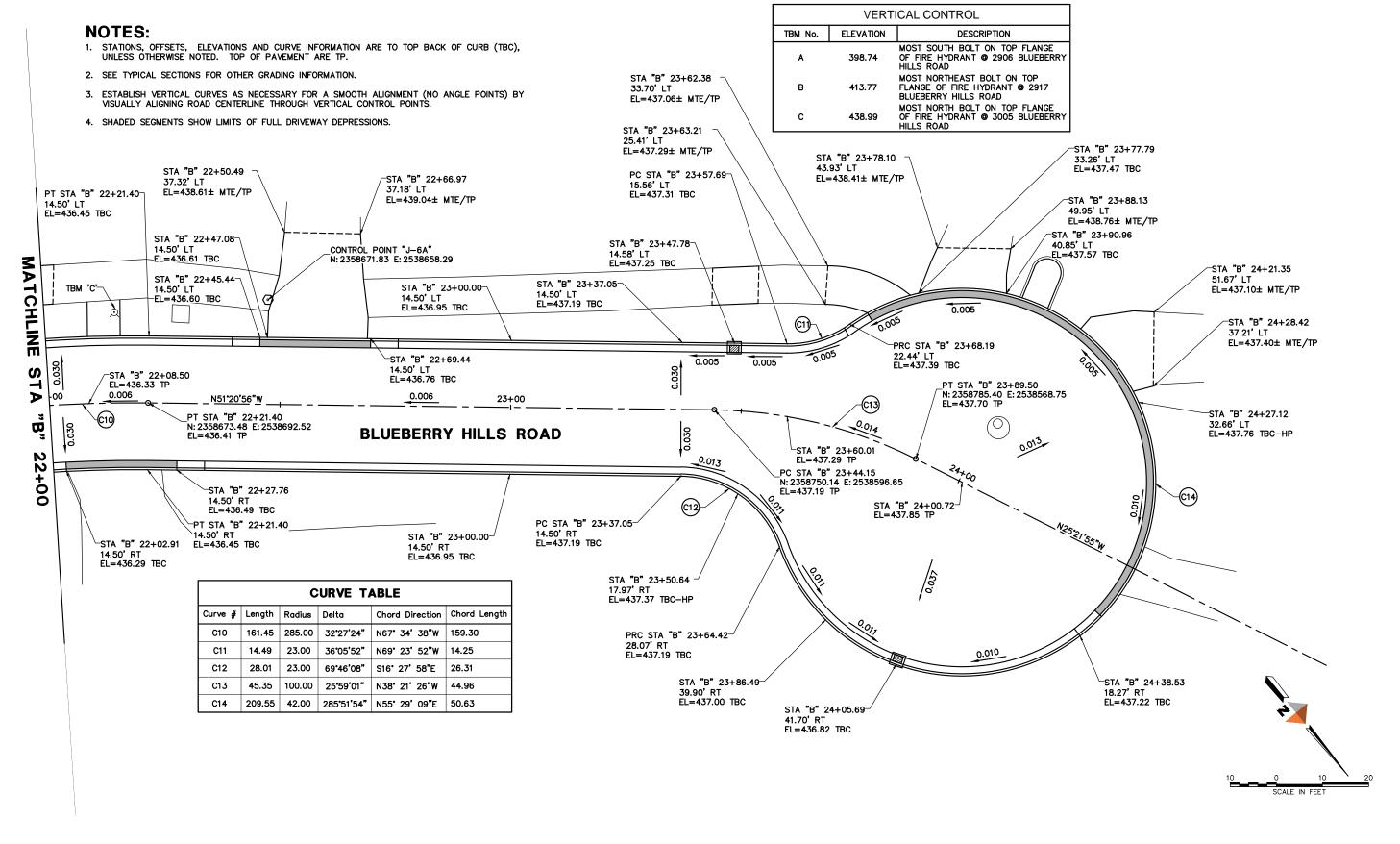
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RECONSTRUCTION
CONTRACT NO. BE17-139

BLUEBERRY HILLS ROAD
HORIZONTAL AND VERTICAL CONTROL
CURB AND GUTTER LAYOUT AND GRADES
STA "B" 19+00 TO STA "B" 22+00







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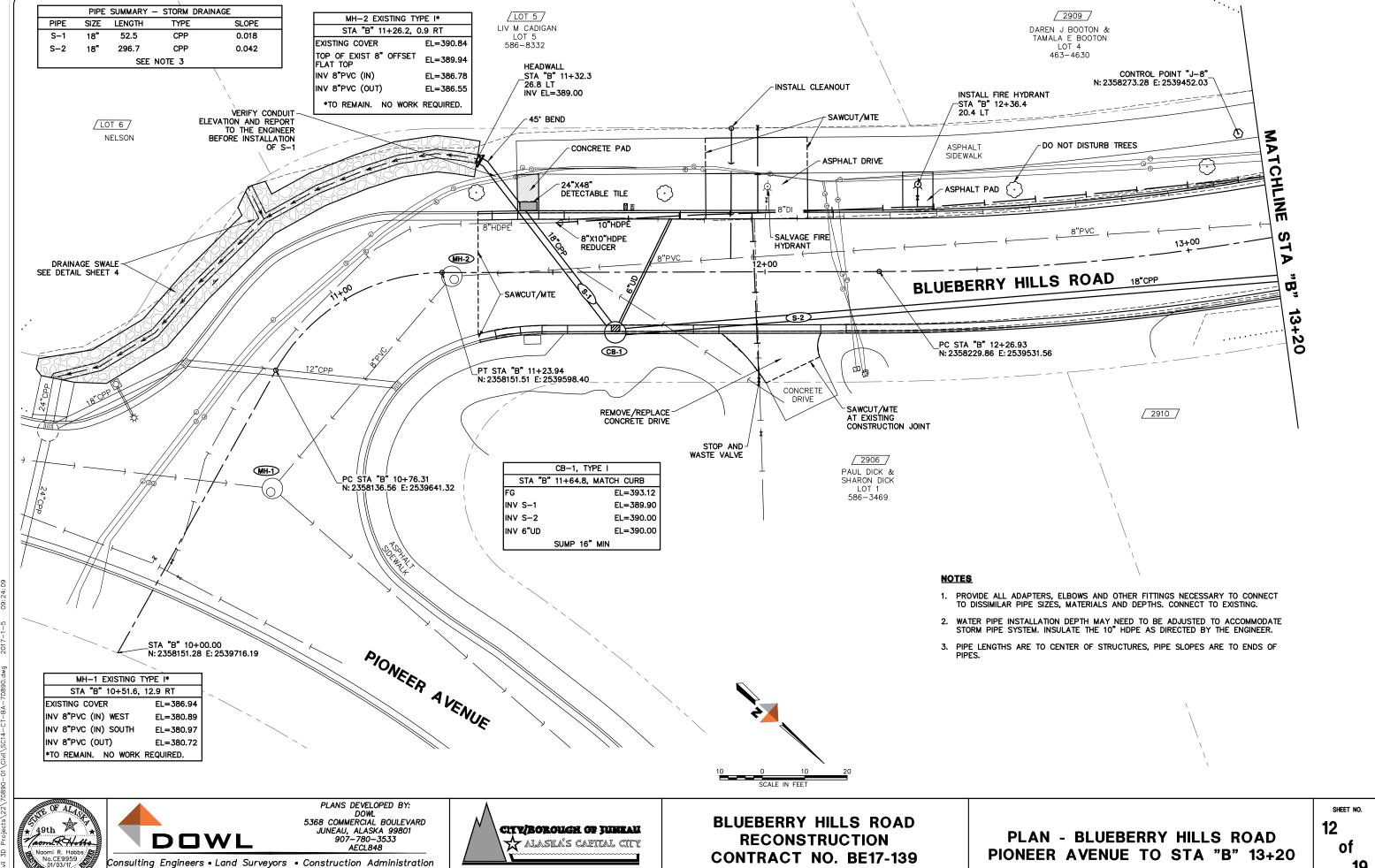
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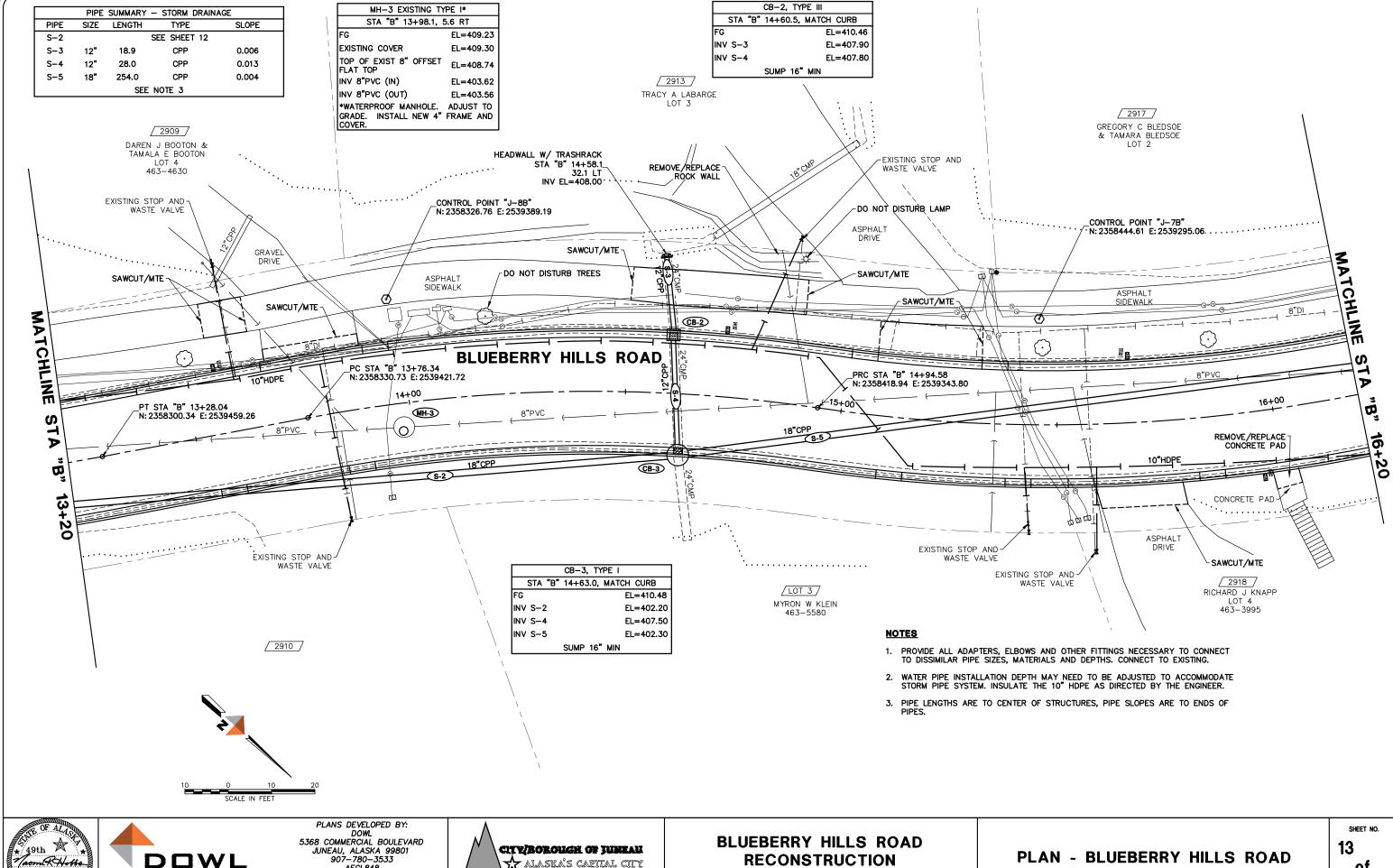


BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139 BLUEBERRY HILLS ROAD
HORIZONTAL AND VERTICAL CONTROL
CURB AND GUTTER LAYOUT AND GRADES
STA "B" 22+00 TO EOP



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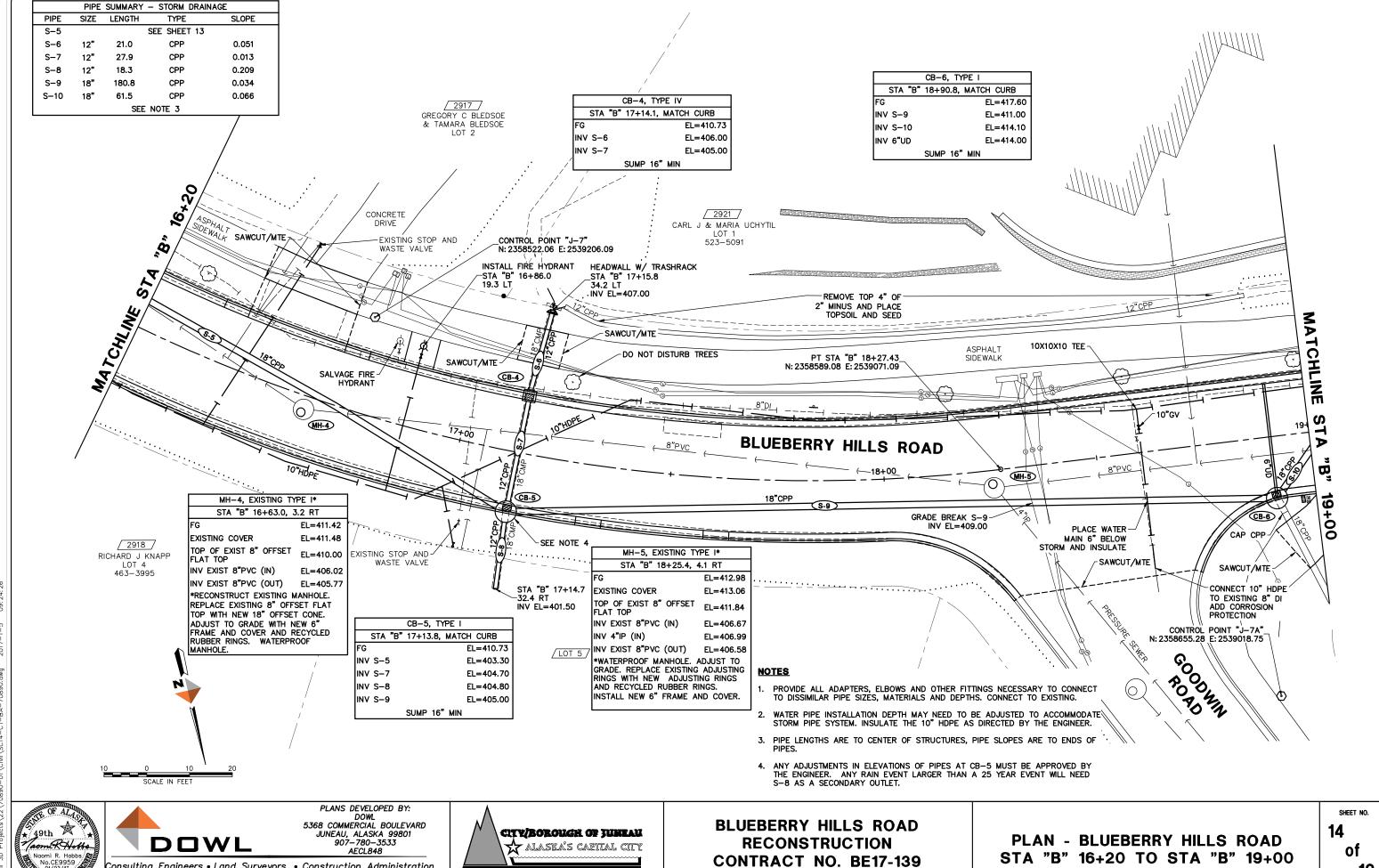
PLANS DEVELOPED B1: DOWL 5368 COMMERCIAL BOULEVARD JUNEAU, ALASKA 99801 907-780-3533 AECL848

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CONTRACT NO. BE17-139

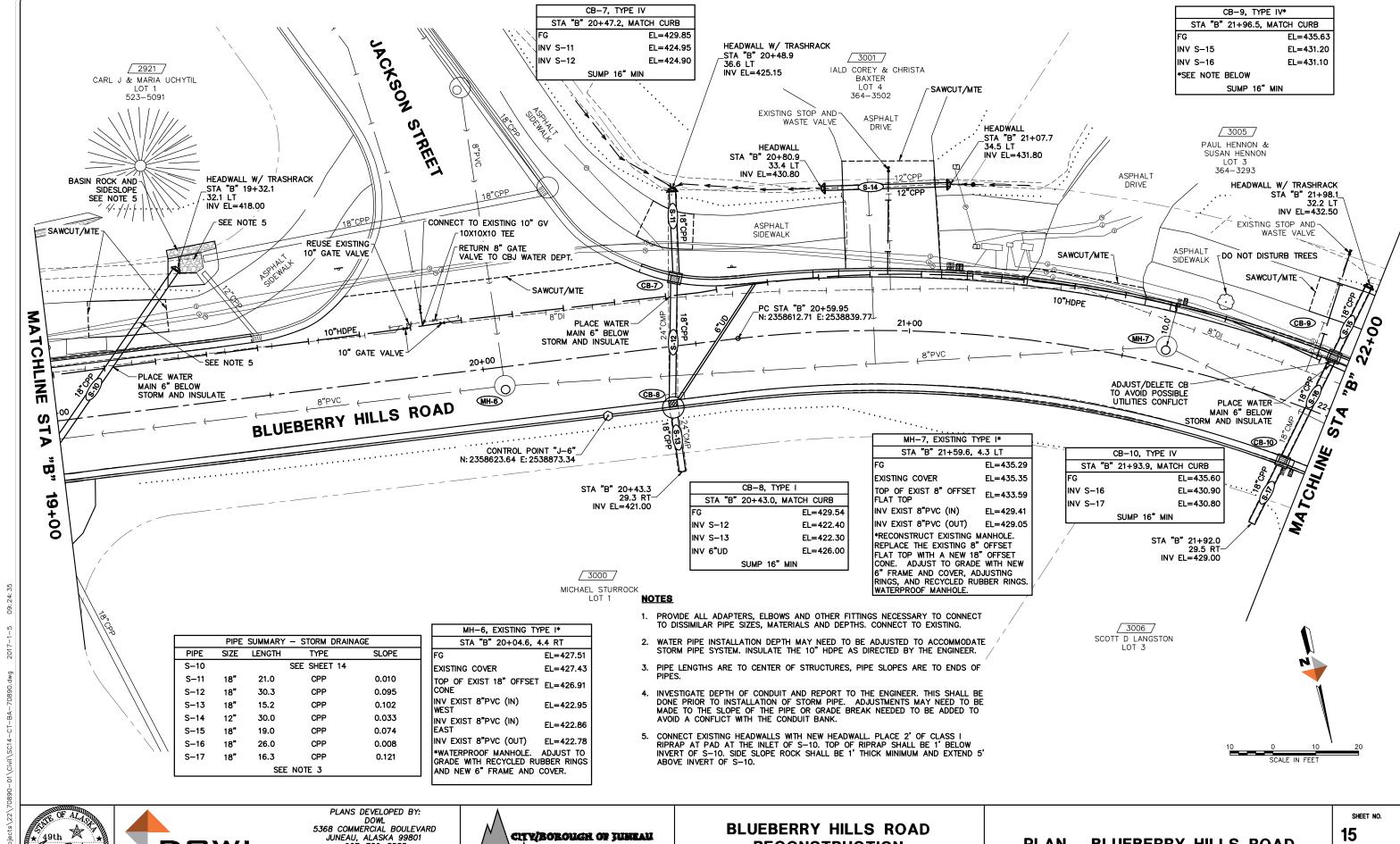
STA "B" 13+20 TO STA "B" 16+20



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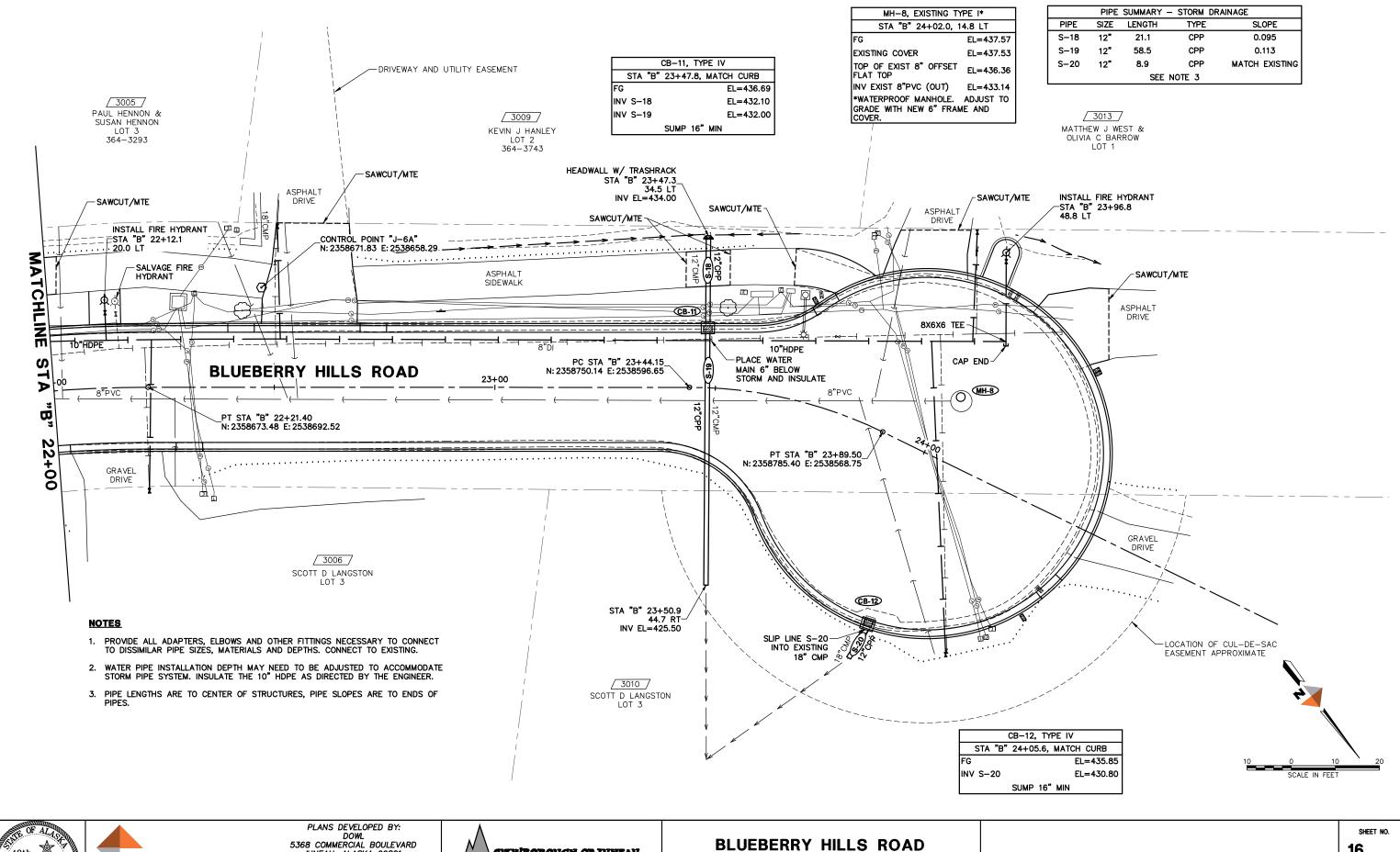
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RECONSTRUCTION CONTRACT NO. BE17-139

PLAN - BLUEBERRY HILLS ROAD STA "B" 19+00 TO STA "B" 22+00



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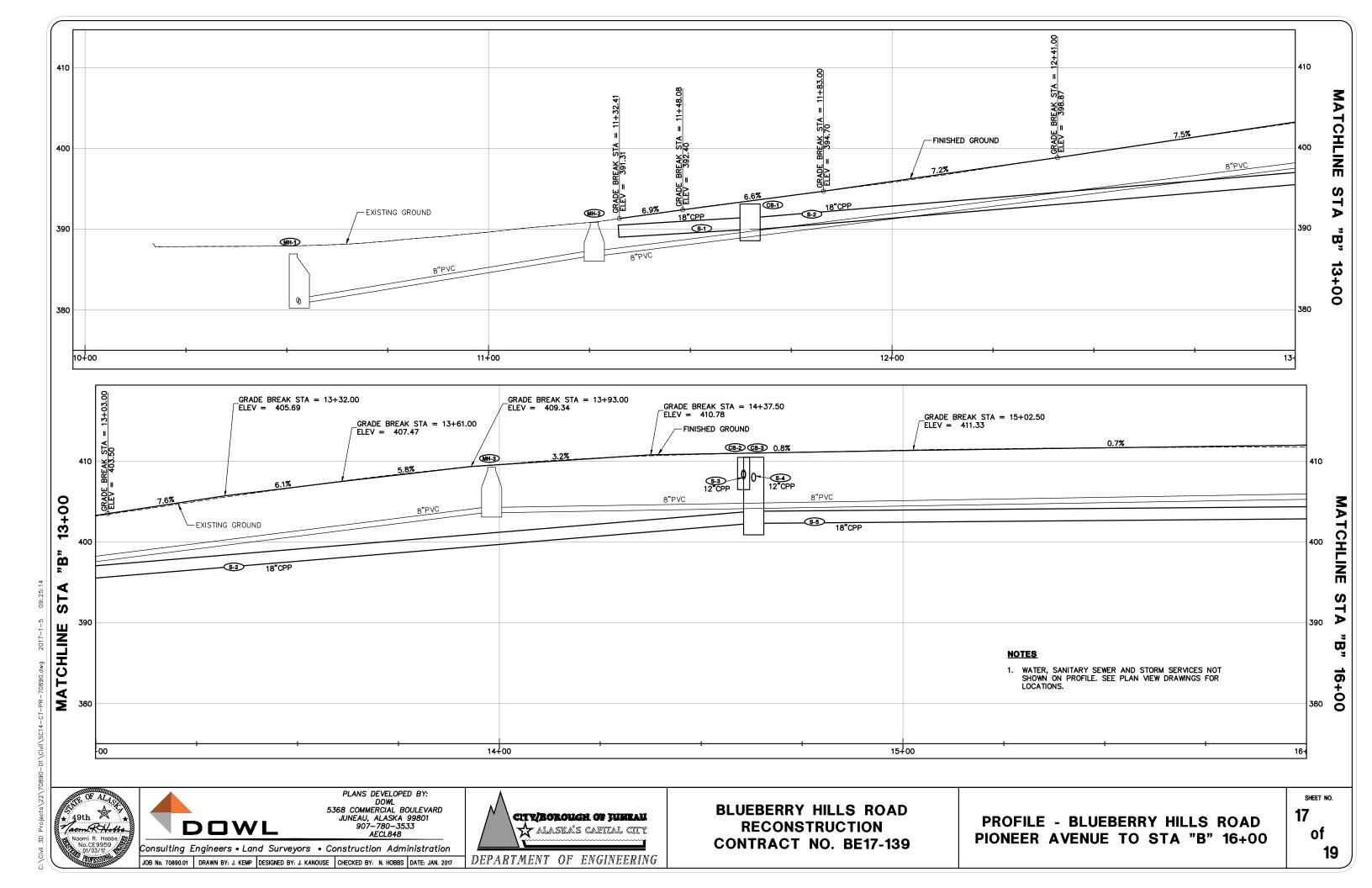
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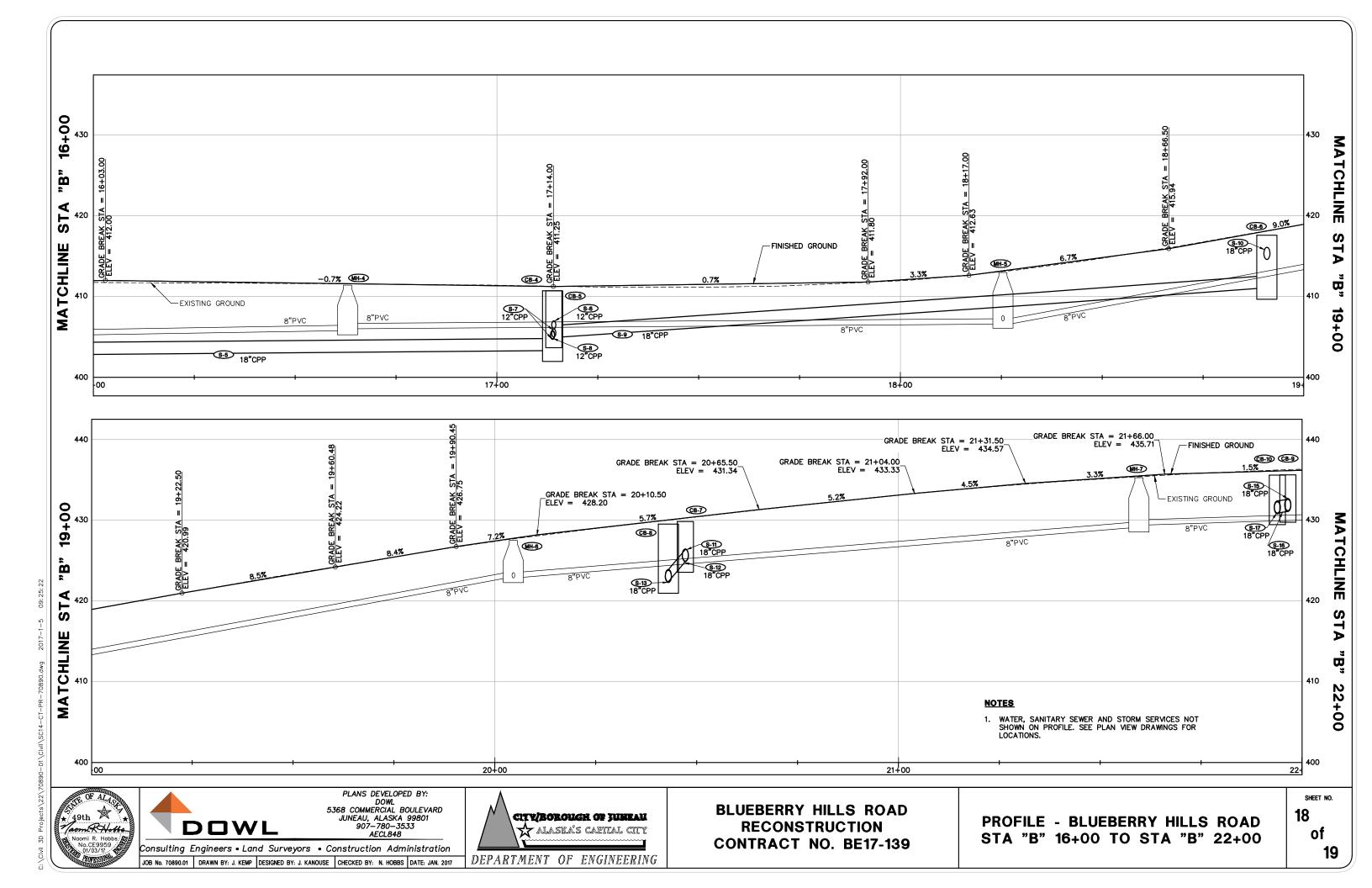
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RECONSTRUCTION CONTRACT NO. BE17-139

PLAN - BLUEBERRY HILLS ROAD STA "B" 22+00 TO EOP





NOTES

 WATER, SANITARY SEWER AND STORM SERVICES NOT SHOWN ON PROFILE. SEE PLAN VIEW DRAWINGS FOR LOCATIONS.





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BLUEBERRY HILLS ROAD RECONSTRUCTION CONTRACT NO. BE17-139

PROFILE - BLUEBERRY HILLS ROAD STA "B" 22+00 TO EOP