

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

**PROJECT AREA
(THIS CONTRACT)**



MUNICIPALITY OF ANCHORAGE PARKS AND RECREATION DEPARTMENT

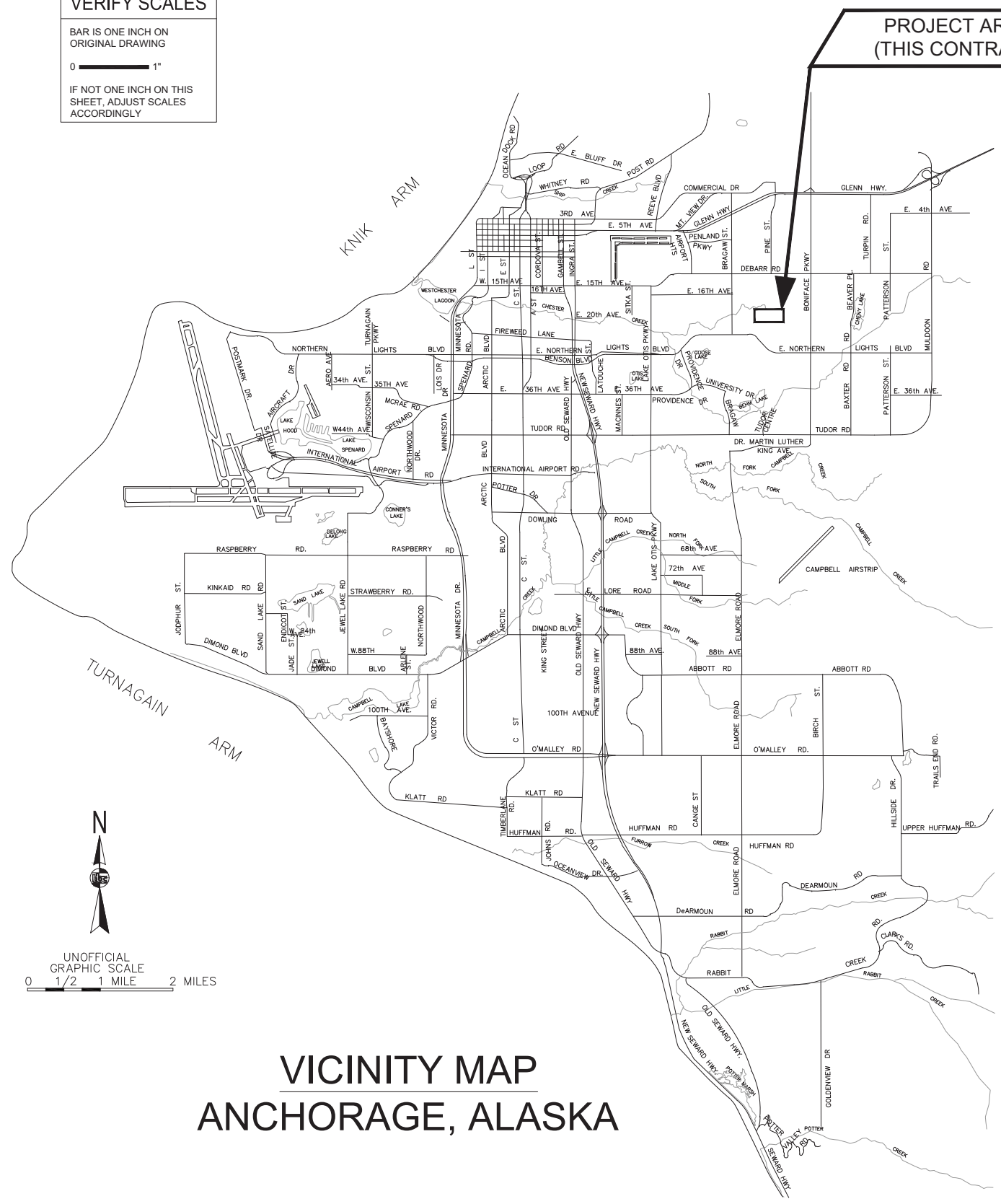
2023 RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS

SHEET INDEX:

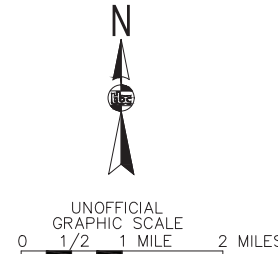
- G1 TITLE SHEET
- G2 DRAWING INDEX & KEY MAP
- G3 NOTES, LEGEND, & ABBREVIATIONS
- G4 SURVEY CONTROL DIAGRAM
- P1 CONSTRUCTION ACCESS & PEDESTRIAN TRAFFIC ROUTE PLAN
- D1 TYPICAL SECTIONS
- D2 TYPICAL SECTIONS
- F1 PLAN AND PROFILE – STA. 10+00 TO STA. 15+75
- F2 PLAN AND PROFILE – STA. 15+75 TO STA. 21+75
- F3 PLAN AND PROFILE – STA. 21+75 TO STA. 27+00
- F4 PLAN AND PROFILE – STA. 27+00 TO STA. 31+50
- S1 BRIDGE GENERAL NOTES & QUALITY ASSURANCE
- S2 BRIDGE PLAN & PROFILE
- S3 BRIDGE SECTIONS & DETAILS
- S4 BRIDGE GUARDRAIL & REINFORCEMENT DETAILS

APPROVED BY:

Mike Braniff
 MIKE BRANIFF
 DIRECTOR PARKS AND RECREATION

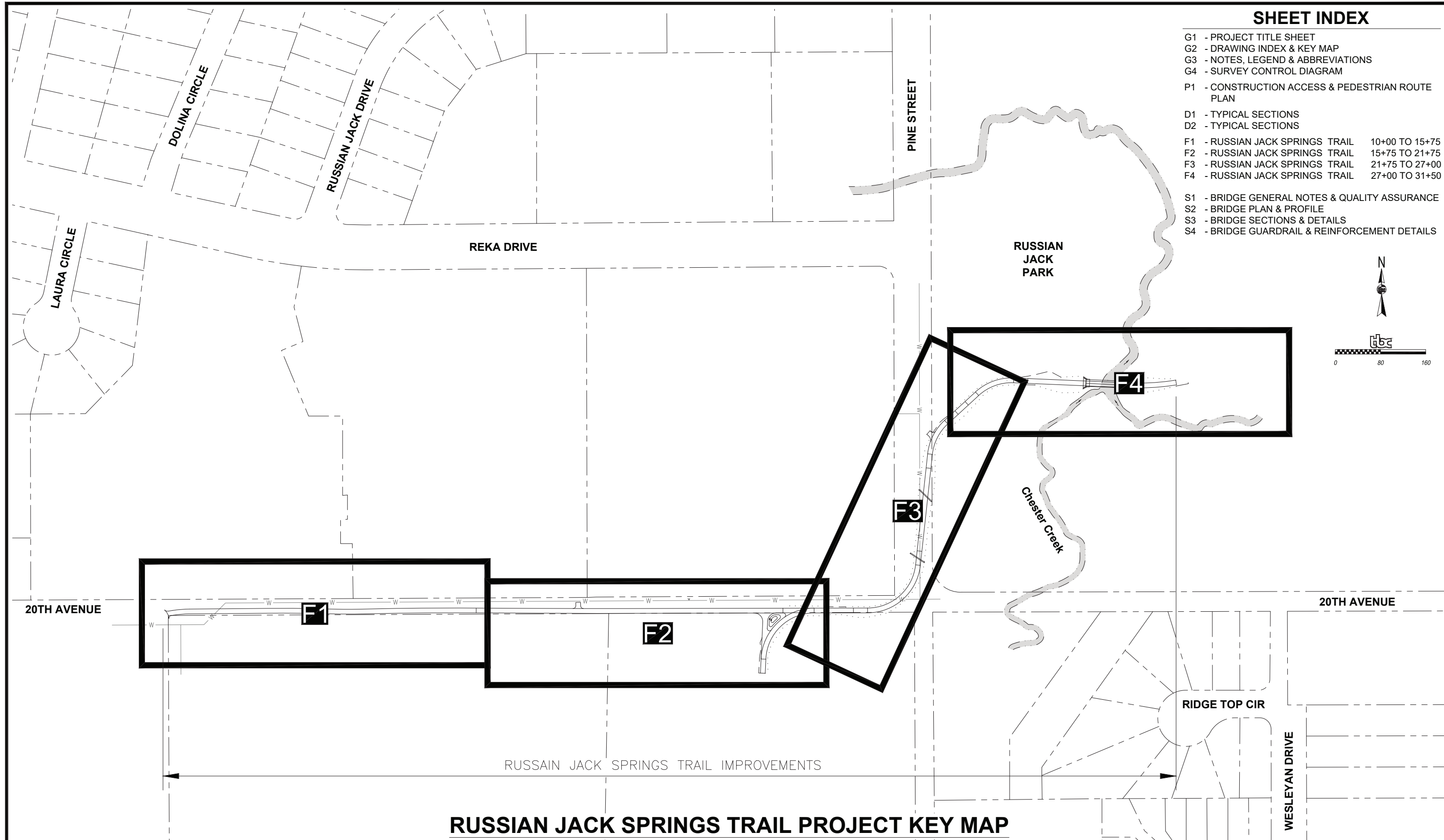
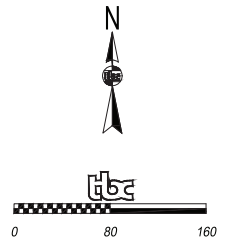


**VICINITY MAP
 ANCHORAGE, ALASKA**



SHEET INDEX

- G1 - PROJECT TITLE SHEET
- G2 - DRAWING INDEX & KEY MAP
- G3 - NOTES, LEGEND & ABBREVIATIONS
- G4 - SURVEY CONTROL DIAGRAM
- P1 - CONSTRUCTION ACCESS & PEDESTRIAN ROUTE PLAN
- D1 - TYPICAL SECTIONS
- D2 - TYPICAL SECTIONS
- F1 - RUSSIAN JACK SPRINGS TRAIL 10+00 TO 15+75
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- F4 - RUSSIAN JACK SPRINGS TRAIL 27+00 TO 31+50
- S1 - BRIDGE GENERAL NOTES & QUALITY ASSURANCE
- S2 - BRIDGE PLAN & PROFILE
- S3 - BRIDGE SECTIONS & DETAILS
- S4 - BRIDGE GUARDRAIL & REINFORCEMENT DETAILS



RUSSIAN JACK SPRINGS TRAIL PROJECT KEY MAP

| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|--------|-----------------|-------|----------------|----------|------------|------------------|----------|------------|-----|------|-------------|----|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | --- | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | --- | | | | | |
| | | | | PROFILE | TBC | | CABLE TV | --- | | | | | |
| ASBUILT: | | | | SANITARY SEWER | --- | | TRAFFIC SIGNAL | --- | | | | | |
| CONTRACTOR: | | BASIS OF DATUM: | | STORM SEWER | --- | | DESIGN | TBC | | | | | |
| INSPECTOR: | | | | WATER | --- | | QUANTITIES | TBC | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | GAS | --- | | MUN. FINAL CHECK | | | | | | |
| | | | | | | | PLAN CHECK | | | | | | |
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License No. AECC957

PARKS AND RECREATION DEPARTMENT

RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS DRAWING INDEX & KEY MAP

| | | | | | |
|---------------|----------------------------------|------------------|-----------------------|-------|----------|
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 | GRID: SW1436 & SW1437 | SHEET | G2 of G4 |
| STATUS: FINAL | | | | | |

CONSTRUCTION NOTES

- CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES-PARKS, DATED MARCH 1, 2015 HEREAFTER REFERRED TO AS MASS, AS CURRENTLY AMENDED BY THE SPECIAL PROVISIONS AND THESE CONSTRUCTION DRAWINGS.
- DRAWING SCALES ON SHEETS WITHIN THESE PLANS MAY VARY AND SHOULD BE NOTED PRIOR TO USE. THESE PLANS WERE CREATED FOR 22X34 PLAN SET AND AT A SPECIFIC DRAWING SCALE. ANY REPRODUCTION OR PUBLISHING OF THESE PLANS MAY RESULT IN DISTORTION OF SCALE AND SHALL BE VERIFIED PRIOR TO USE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
- CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH MASS DIVISION 65.00 CONSTRUCTION SPECIFICATIONS FOR CONSTRUCTION SURVEY. THE "REDLINES" SHALL BE KEPT CURRENT ON A DAILY BASIS AND SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOBSITE.
- CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH AS-BUILT PLANS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE DRAWINGS.
- THESE NOTES CONTAIN INFORMATION NECESSARY FOR THE PROPER EXECUTION OF THE WORK CONTAINED ON THESE IMPROVEMENT PLANS. THESE NOTES APPLY TO ALL PLAN SHEETS. ADDITIONAL CONSTRUCTION NOTES MAY ALSO BE SHOWN ON INDIVIDUAL PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE TO READ AND COMPLY WITH ALL NOTES SHOWN ON THIS SET OF PLANS. THE TERM "CONTRACTOR", AS USED IN THESE NOTES AND ELSEWHERE IN THIS PLAN SET, MEANS THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS AND INDIVIDUALS AUTHORIZED TO PERFORM WORK SHOWN ON THESE IMPROVEMENT PLANS. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL NOTES APPLICABLE TO HIS/HER WORK. ALL CONTRACTORS ARE DIRECTED TO CONTACT THIS ENGINEER FOR ANY QUESTIONS REGARDING THE STATED OR IMPLIED MEANING OF ANY NOTE OR OTHER INFORMATION CONTAINED ON THESE IMPROVEMENT PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT HIS/HER CONTRACT FOR SERVICES INCLUDES THE RESPONSIBILITIES DEFINED BY THE APPLICABLE NOTES.
- EXISTING SIGNAGE ALONG TRAILS MAY REQUIRE REMOVAL AND REINSTALLATION AS A RESULT OF WORK TO BE PERFORMED. REINSTALLATION OF SIGNAGE SHALL BE PER MASS, ALL ASSOCIATED WORK SHALL BE INCIDENTAL TO THE CONTRACT, AND NO SEPARATE PAYMENT SHALL BE MADE UNLESS OTHERWISE SPECIFIED IN THESE DRAWINGS.
- ALL HAUL ROUTES AND CONSTRUCTION TRAFFIC DESIGNATIONS SHOWN HEREIN ARE BY RECOMMENDATION OF THE ENGINEER AND AS SUCH, ARE RECOMMENDATIONS ONLY. TRAFFIC CONTROL PLAN (TCP) TO BE COMPLETED BY CONTRACTOR PER MASS, COORDINATED WITH AND APPROVED BY THE MOA TRAFFIC ENGINEER, AS WELL AS ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES. SEASONAL WEIGHT RESTRICTIONS MAY EXIST DURING PROPOSED CONSTRUCTION SCHEDULE. SUCH RESTRICTIONS MUST BE ADHERED TO BY CONTRACTOR, AND INCLUDED IN TCP.
- ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL QUANTITIES.
- EXACT LOCATION OF EXCAVATION AND BACKFILL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ORGANIC MATERIAL SHALL BE REMOVED FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. NO ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL SHALL BE UTILIZED FOR BACKFILL.
- DEWATERING IS NOT ANTICIPATED FOR THIS PROJECT. IF DEWATERING IS REQUIRED, IT SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE
- GRADE AND COMPACT NATIVE SOILS TO 95% M.D.D. PRIOR TO FILL PLACEMENT AS DIRECTED BY THE ENGINEER.
- CLASSIFIED FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12-INCHES IN DEPTH AND SHALL BE COMPACTED TO 95% M.D.D.
- FINISH GRADE (FG) REPRESENTS THE ELEVATION OF THE FINISHED SURFACE. THIS INCLUDES LANDSCAPE AREAS, PAVED OR CONCRETE SURFACES, ROCK RIP-RAP SURFACE AND ELEVATION AT EXTERIOR OF STRUCTURE FOUNDATION, UNLESS OTHERWISE DENOTED ON DETAIL OR SPECIAL LABEL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST SUBGRADE OR TOPSOIL TO ALLOW FOR FINISHED SURFACE MATERIAL DIMENSIONS. IF DETAIL IS PROVIDED FOR SPECIAL AREA, DETAIL SHALL DENOTE FINISH GRADES.
- CUT AND FILL SLOPES SHALL NOT EXCEED 2 HORIZONTAL UNITS TO 1 VERTICAL UNIT (2:1) UNLESS AUTHORIZED BY THE ENGINEER.
- THE CONTRACTOR SHALL WORK, COOPERATE, AND COORDINATE WITH THE ENGINEER TO MODIFY THE PEDESTRIAN TRAFFIC CONTROL PLAN AND ADJUST DETOUR ROUTES TO FACILITATE THE OWNER'S REQUESTS TO MAINTAIN THE PUBLIC'S SAFETY.

CLEANUP AND TOPSOIL:

- WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "DEMOLITION" (OR INCIDENTAL TO THE PROJECT) AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE, UNLESS BID ITEMS ARE PROVIDED. AN INSPECTION OF THE SURROUNDING AREAS AND PROPERTIES TO BE UTILIZED SHALL BE CONDUCTED BY THE ENGINEER AND CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES. RECORD ALL PREEXISTING CONDITIONS.

RECLAMATION AND REPLACEMENT:

- THE CONTRACTOR SHALL DELINEATE WETLAND AREAS AS IDENTIFIED ON THE DRAWINGS WITH PERIMETER BMPs. NO WORK, EQUIPMENT, OR EXTRANEIOUS MATERIALS SHALL BE ALLOWED IN THE WETLANDS UNLESS IDENTIFIED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- NO SOILS REPORT OR INVESTIGATION HAS BEEN CONDUCTED FOR THIS PROJECT.
- TRAIL REPLACEMENT AREAS ARE BASED ON EXISTING FAILURES WITHIN TRAIL PAVEMENT. ADDITIONAL TRAIL REPLACEMENT MAY BE REQUIRED.
- CONTRACTOR TO WORK AND COOPERATE WITH THE ENGINEER AND PROVIDE POTHOLING AT INTERMEDIATE LOCATIONS WITHIN TRAIL DURING CONSTRUCTION. LOCATIONS AND EXTENT TO BE DETERMINED ONSITE. CONTRACTOR SHALL POTHOLE AS DIRECTED BY THE ENGINEER.

GRADE TO DRAIN:

- MINOR CLEARING & GRUBBING AND EARTHWORK SHALL BE COMPLETED AROUND EXISTING AND PROPOSED CULVERTS TO PERPETUATE DRAINAGE UNDER TRAIL. THIS WORK SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCIDENTAL TO THE CONTRACT.

EXISTING UTILITIES

- LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM AS-BUILT DRAWINGS AND SOME FROM UTILITY COMPANY LOCATES, AND THEREFORE MAY NOT BE VISIBLE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND DOCUMENT ANY UTILITY (ACTIVE OR ABANDONED) UPON ENCOUNTERING ANY UTILITY NOT SHOWN ON THE DRAWINGS OR PLANS HEREIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES AND PERFORMING ANY NECESSARY VERIFICATION PRIOR TO CONSTRUCTION.
- UNDERGROUND AND OVERHEAD ELECTRICAL, TELECOMMUNICATION LINES, FIBER-OPTIC CABLE, AND UTILITY POLES OCCUR WITHIN THE PROJECT AREA; CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD AND/OR UNDERGROUND LINES, AND POLES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY.
- HAND DIGGING IS REQUIRED WITHIN THREE FEET OF BURIED ELECTRICAL CABLE AND FIBER-OPTIC CABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE PLANS. THIS RESPONSIBILITY INCLUDES CONTACTING UTILITY COMPANIES FOR LOCATIONS OR POTHOLING PRIOR TO CONSTRUCTION. ANY DAMAGE TO UTILITIES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ACCESS TO MANHOLES MUST BE MAINTAINED AT ALL TIMES.

LEGEND

| | |
|--|---------------------------------|
| | REMOVE AND REPLACE PAVEMENT |
| | TRAIL REPLACEMENT |
| | TRAIL REALIGNMENT |
| | JOGGING SHOULDER |
| | RIP RAP, CLASS I |
| | EXISTING WETLANDS |
| | PARCEL LINE (MOA GIS) |
| | EXISTING CURB & GUTER |
| | EXISTING EDGE OF PAVEMENT |
| | EXISTING FENCE |
| | EXISTING EDGE OF WATER |
| | OPEN DITCH |
| | EXISTING STEEL RETAINING WALL |
| | EXISTING SANITARY SEWER |
| | EXISTING SANITARY SEWER MANHOLE |
| | EXISTING STORM DRAIN |
| | EXISTING STORM DRAIN MANHOLE |
| | EXISTING UNDERGROUND ELECTRIC |
| | EXISTING FIBER-OPTIC CABLE |
| | EXISTING OVERHEAD UTILITY |
| | EXISTING TRAIL LIGHT AND J-BOX |
| | EXISTING OVERHEAD UTILITY POLE |
| | EXISTING VEGETATION (CANOPY) |
| | EXISTING BOLLARD |
| | WOOD BOLLARD |
| | REMOVABLE BOLLARD |
| | BOLLARD SIGN |
| | SIGN |
| | EXISTING SIGN |
| | EXISTING TRASH RECEPTACLE |
| | EXISTING BOULDER |
| | BOULDER |
| | EXISTING FIRE-HYDRANT |
| | MISCELLANEOUS OBJECT(S) |



Know what's below.
Call before you dig.

!!! CAUTION !!!
FIBER OPTIC, ELECTRIC,
COMMUNICATION, WATER,
& SEWER ALONG TRAIL
AND SURROUNDING
WORK AREA

| | |
|-------|--|
| ADA | AMERICAN WITH DISABILITIES ACT OF 1990 |
| ADOT | STATE OF ALASKA DEPARTMENT OF TRANSPORTATION |
| AC | ASPHALTIC CONCRETE |
| BOP | BEGINNING OF PROJECT |
| BC | BEGINNING OF CURVE |
| BF | BOTTOM OF FOOTING |
| BM | BENCH MARK |
| BMP | BEST MANAGEMENT PRACTICE |
| BVC | BEGIN VERTICAL CURVE |
| BW | BACK OF WALK ELEVATION |
| C&G | CURB AND GUTTER |
| CL | CENTERLINE |
| CO | CLEANOUT |
| CC | CURB CUT |
| CONST | CONSTRUCT |
| CR | CURB RETURN |
| DET | DETAIL |
| DI | DROP INLET |
| DIP | DUCTILE IRON PIPE |
| EOP | END OF PROJECT |
| E | ELECTRICAL |
| EP | EDGE OF PAVEMENT |
| EL | ELEVATION |
| EA | EASEMENT LINE |
| EC | END OF CURVE |
| EST | ESTIMATED |
| EX | EXISTING |
| EVC | END OF VERTICAL CURVE |
| FI | FURNISH AND INSTALL |
| FF | FINISH FLOOR ELEVATION |
| FG | FINISHED GRADE |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FLG | FLANGE |
| G | GAS |
| GB | GRADE BREAK |
| GV | GATE VALVE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| HORZ | HORIZONTAL |
| HP | HIGH POINT |
| IE | INVERT ELEVATION |
| INT | INTERSECTION |
| IAW | IN ACCORDANCE WITH |
| L | LENGTH |
| LC | LIP OF CURB |
| LF | LINEAR FEET |
| LOC | LOCATION |
| LP | LOW POINT |
| LT | LEFT |
| MASS | MUN. OF ANCHORAGE STANDARD SPECIFICATIONS |
| MAX | MAXIMUM |
| ME | MATCH EXISTING |
| MH | MANHOLE |
| MIN | MINIMUM |
| MON | MONUMENT |
| MSL | MEAN SEA LEVEL |
| NTS | NOT TO SCALE |
| OHW | ORDINARY HIGH WATER |
| OCS | OIL/GREASE SEPARATOR |
| PAD | PAD ELEVATION |
| PCC | POINT OF COMPOUND CURVE |
| PC | POINT OF CURVATURE |
| PED | PEDESTRIAN |
| PL | PROPERTY LINE |
| PI | POINT OF INTERSECTION |
| PRC | POINT OF REVERSE CURVE |
| PO | PUSH ON |
| PUE | PUBLIC UTILITY EASEMENT |
| PVC | POINT OF VERTICAL CURVE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVT | POINT OF VERTICAL TANGENT |
| PT | POINT OF TANGENT |
| R | RADIUS |
| RAP | RECYCLED ASPHALT PAVEMENT |
| RCB | REINFORCED CONCRETE BOX |
| RCP | REINFORCED CONCRETE PIPE |
| RR | REMOVE AND REPLACE |
| ROW | RIGHT-OF-WAY |
| RP | RADIUS POINT |
| RT | RIGHT |
| REF | REFERENCE |
| RET | RETURN |
| S | SLOPE |
| SG | SUBGRADE |
| SS | SANITARY SEWER |
| STA | STATION |
| STD | STANDARD |
| SW | SIDEWALK |
| ST | STREET |
| SHT | SHEET |
| SD | STORM DRAIN |
| TAN | TANGENT |
| TEL | TELEPHONE |
| TC | TOP OF CURB |
| TBM | TEMPORARY BENCH MARK |
| TB | THRUST BLOCK |
| TOW | TOP OF WALL |
| TOE | TOE OF SLOPE |
| TOP | TOP OF SLOPE |
| TYP | TYPICAL |
| VB | VALVE BOX |
| VC | VERTICAL CURVE |
| W | WATER |
| Δ | CURVE DELTA |

| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | --- | | | | | |
| | | | | TOPOGRAPHY | TBC | | ELECTRIC | --- | | | | | |
| STAKING: | | | | PROFILE | TBC | | CABLE TV | --- | | | | | |
| | | | | SANITARY SEWER | --- | | TRAFFIC SIGNAL | --- | | | | | |
| ASBUILT: | | | | STORM SEWER | --- | | DESIGN | TBC | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | WATER | --- | | QUANTITIES | TBC | | | | | |
| INSPECTOR: | | | | GAS | --- | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | VERTICAL DATUM | | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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STATE OF ALASKA
49th
LOREN L. BEOTA
No. CE-5585
08/01/25
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE PARKS
AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

MUNICIPALITY OF ANCHORAGE

PARKS AND RECREATION DEPARTMENT
RUSSIAN JACK SPRINGS
TRAIL & BRIDGE IMPROVEMENTS
NOTES, LEGEND, & ABBREVIATIONS

| | | | | | |
|---------------|----------------------------------|------------------|-----------------------|-------|----------|
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 | GRID: SW1436 & SW1437 | SHEET | G3 of G4 |
| STATUS: FINAL | | | | | |

SURVEY NOTES:

- The field survey was performed by The Boutet Company May 2018 and Feb. 2023. Field survey information for this project is located in the Boutet Company MOA Field Book 3693, page 24 and 3800, page 31.
- A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.

Vertical Control

Elevations are expressed in NAVD88 (North American Vertical Datum, 1988 adjustment) in feet. The control and much of this survey was performed utilizing various operating Real Time Control Network (RTCN) reference stations around Anchorage, and applying NGS Geoid 12A to the ellipsoid elevations. Static GPS data was submitted for various control stations to the NGS OPUS (Online Positioning User System) for verification.

Horizontal Control

Coordinate System: This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4" E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

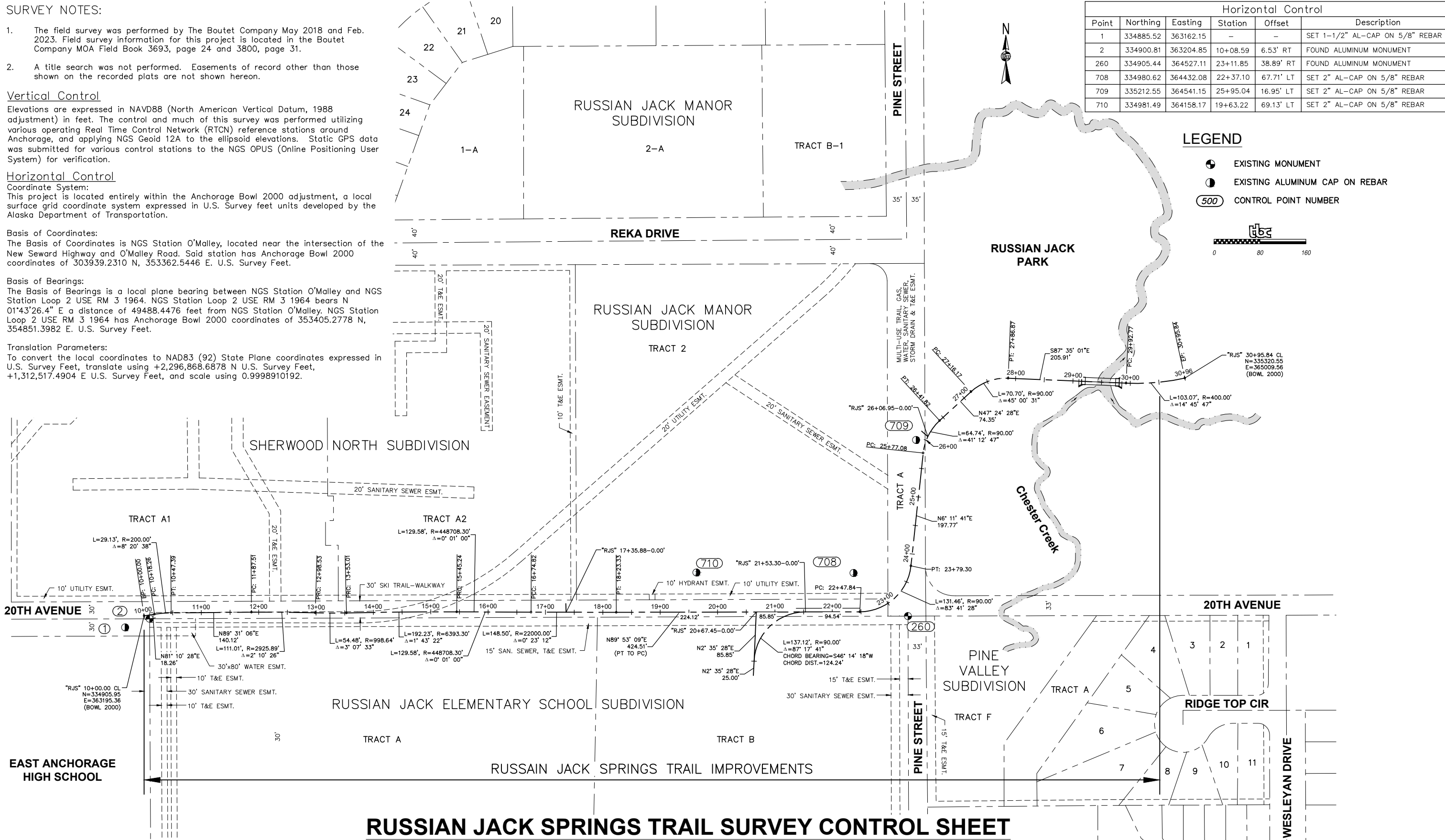
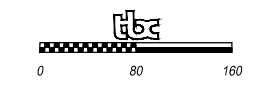
Translation Parameters:

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2,296,868.6878 N U.S. Survey Feet, +1,312,517.4904 E U.S. Survey Feet, and scale using 0.9998910192.

| Horizontal Control | | | | | |
|--------------------|-----------|-----------|----------|-----------|---------------------------------|
| Point | Northing | Easting | Station | Offset | Description |
| 1 | 334885.52 | 363162.15 | - | - | SET 1-1/2" AL-CAP ON 5/8" REBAR |
| 2 | 334900.81 | 363204.85 | 10+08.59 | 6.53' RT | FOUND ALUMINUM MONUMENT |
| 260 | 334905.44 | 364527.11 | 23+11.85 | 38.89' RT | FOUND ALUMINUM MONUMENT |
| 708 | 334980.62 | 364432.08 | 22+37.10 | 67.71' LT | SET 2" AL-CAP ON 5/8" REBAR |
| 709 | 335212.55 | 364541.15 | 25+95.04 | 16.95' LT | SET 2" AL-CAP ON 5/8" REBAR |
| 710 | 334981.49 | 364158.17 | 19+63.22 | 69.13' LT | SET 2" AL-CAP ON 5/8" REBAR |

LEGEND

- EXISTING MONUMENT
- EXISTING ALUMINUM CAP ON REBAR
- CONTROL POINT NUMBER



RUSSIAN JACK SPRINGS TRAIL SURVEY CONTROL SHEET

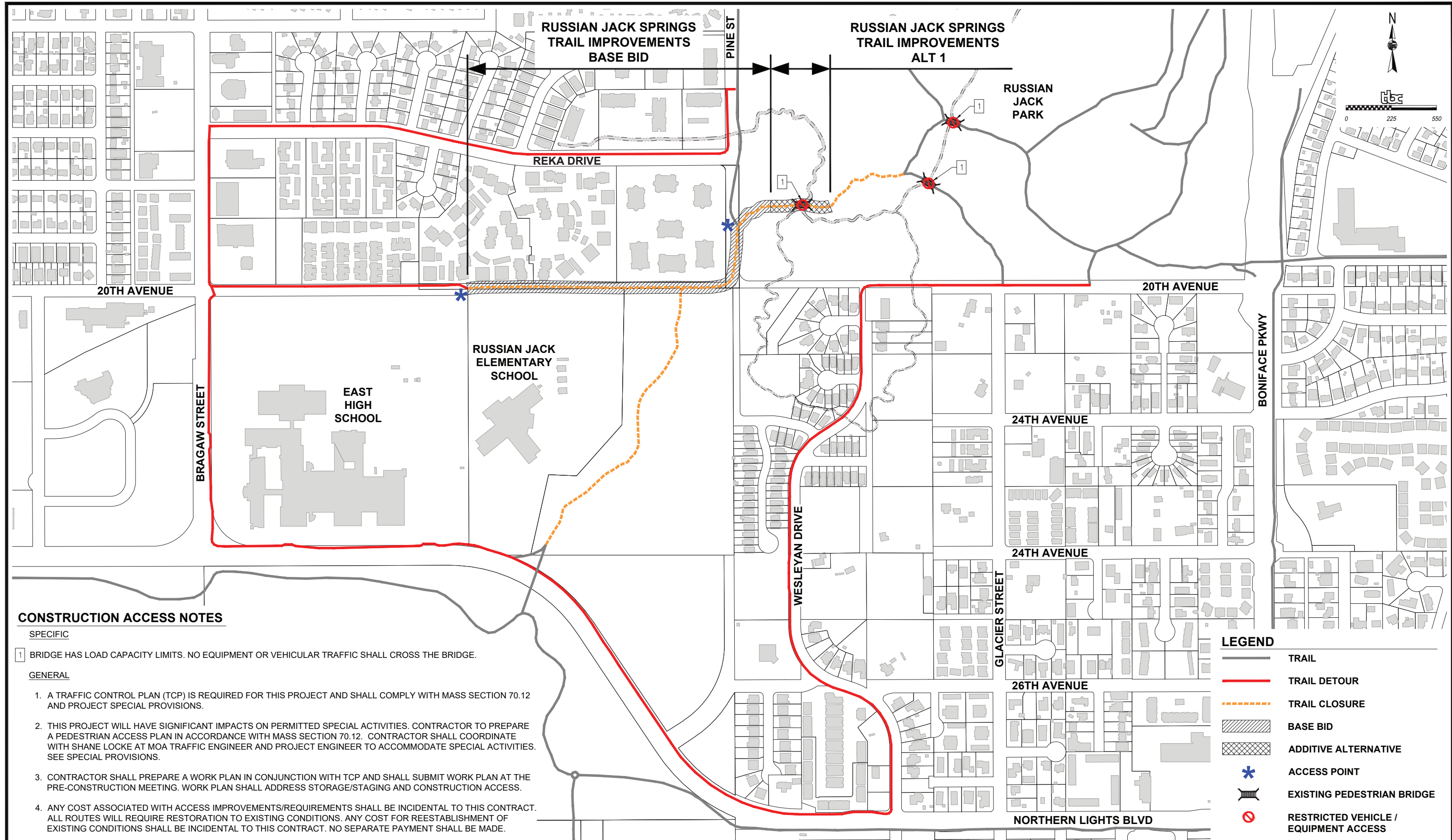
| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|--------|----------------|-------|----------------|----------|------------|------------------|----------|------------|-----|------|-------------|----|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | | | | SANITARY SEWER | --- | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | --- | | DESIGN | TBC | | | | | |
| | | | | WATER | --- | | QUANTITIES | TBC | | | | | |
| | | | | GAS | --- | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | | | | PLAN CHECK | | | | | REVISIONS | |

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ANCHORAGE PARKS AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

PARKS AND RECREATION DEPARTMENT
RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS SURVEY CONTROL DIAGRAM

| | | | | |
|-------|----------------------------------|------------------|--|----------------|
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 | GRID: SW1436, SW1437 SW1536, SW1537 | SHEET G4 of G4 |
| | | STATUS: FINAL | | |



CONSTRUCTION ACCESS NOTES

SPECIFIC

1 BRIDGE HAS LOAD CAPACITY LIMITS. NO EQUIPMENT OR VEHICULAR TRAFFIC SHALL CROSS THE BRIDGE.

GENERAL

1. A TRAFFIC CONTROL PLAN (TCP) IS REQUIRED FOR THIS PROJECT AND SHALL COMPLY WITH MASS SECTION 70.12 AND PROJECT SPECIAL PROVISIONS.
2. THIS PROJECT WILL HAVE SIGNIFICANT IMPACTS ON PERMITTED SPECIAL ACTIVITIES. CONTRACTOR TO PREPARE A PEDESTRIAN ACCESS PLAN IN ACCORDANCE WITH MASS SECTION 70.12. CONTRACTOR SHALL COORDINATE WITH SHANE LOCKE AT MOA TRAFFIC ENGINEER AND PROJECT ENGINEER TO ACCOMMODATE SPECIAL ACTIVITIES. SEE SPECIAL PROVISIONS.
3. CONTRACTOR SHALL PREPARE A WORK PLAN IN CONJUNCTION WITH TCP AND SHALL SUBMIT WORK PLAN AT THE PRE-CONSTRUCTION MEETING. WORK PLAN SHALL ADDRESS STORAGE/STAGING AND CONSTRUCTION ACCESS.
4. ANY COST ASSOCIATED WITH ACCESS IMPROVEMENTS/REQUIREMENTS SHALL BE INCIDENTAL TO THIS CONTRACT. ALL ROUTES WILL REQUIRE RESTORATION TO EXISTING CONDITIONS. ANY COST FOR REESTABLISHMENT OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THIS CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.

LEGEND

- TRAIL
- TRAIL DETOUR
- TRAIL CLOSURE
- BASE BID
- ADDITIVE ALTERNATIVE
- ACCESS POINT
- EXISTING PEDESTRIAN BRIDGE
- RESTRICTED VEHICLE / EQUIPMENT ACCESS

| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|--------|----------------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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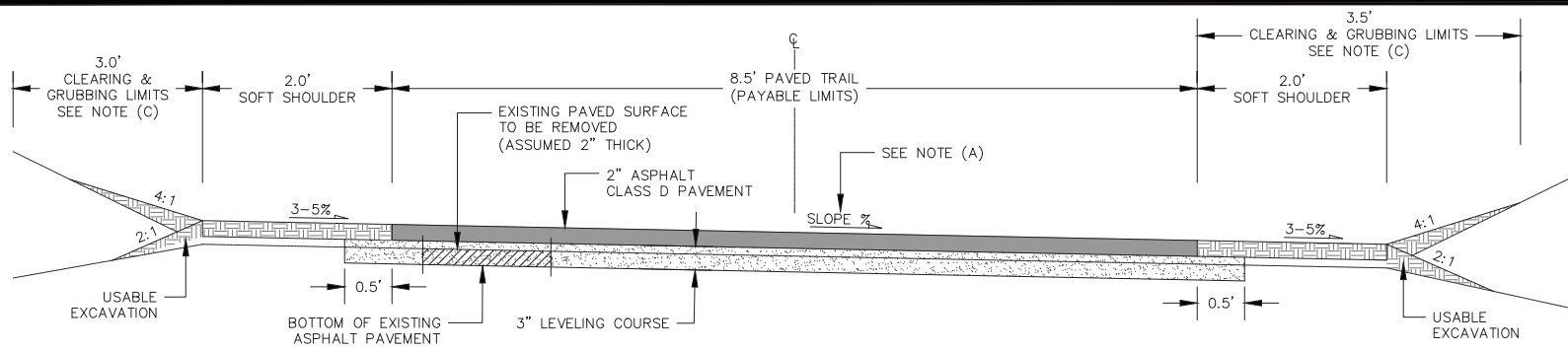
ANCHORAGE PARKS AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

MUNICIPALITY OF ANCHORAGE

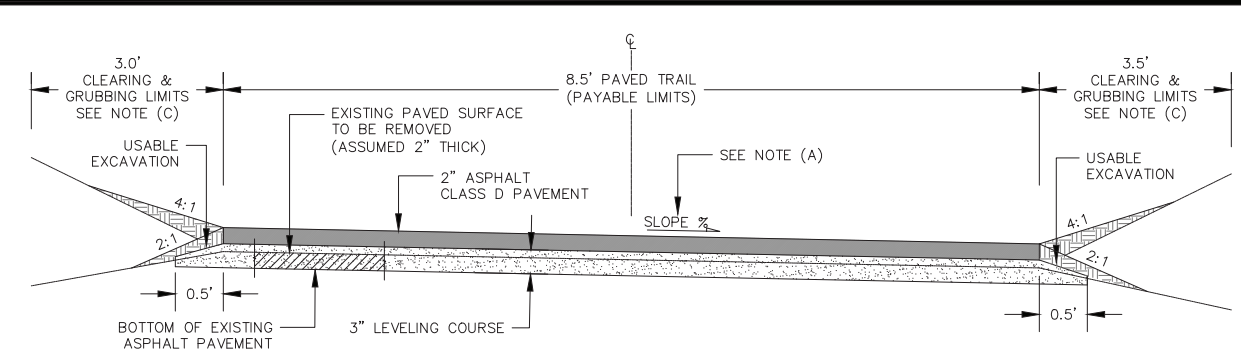
PARKS AND RECREATION DEPARTMENT

RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS CONSTRUCTION ACCESS & PEDESTRIAN TRAFFIC ROUTE PLAN

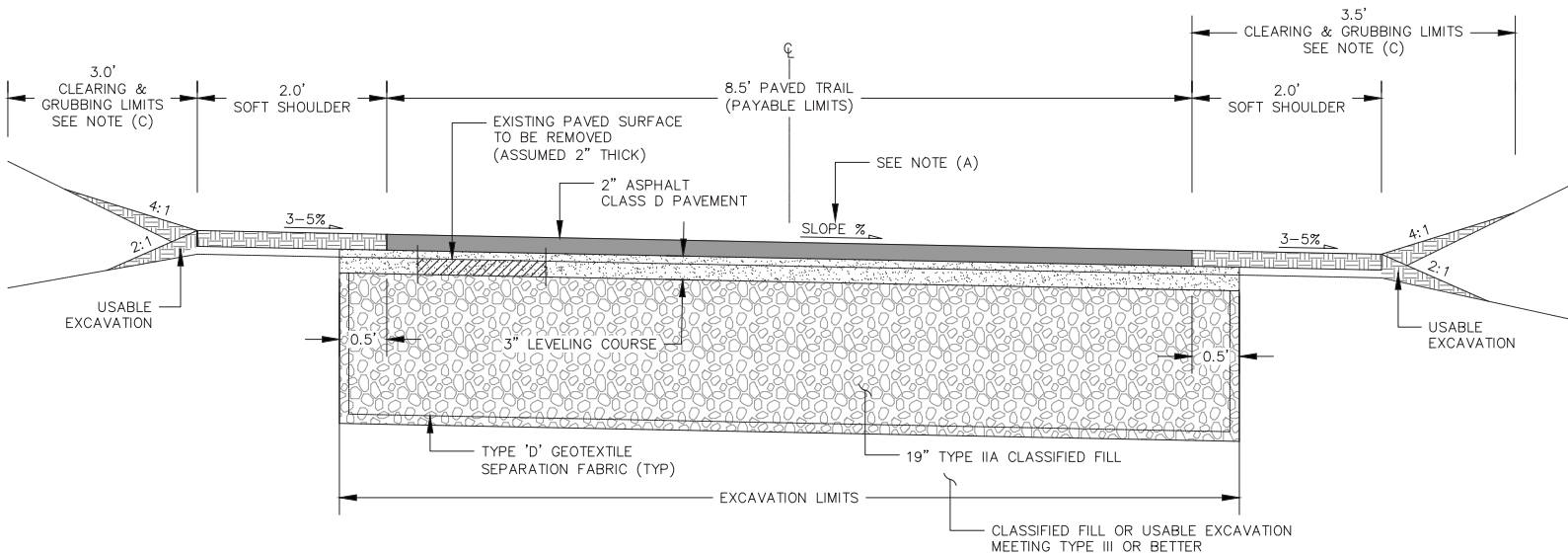
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|-------|----------------|------------------|-----------------------|-------|----------|
| SCALE | HOR. PER SHEET | DATE: 02/20/2023 | GRID: SW1436 & SW1437 | SHEET | P1 of P1 |
| | VER. PER SHEET | STATUS: FINAL | | | |



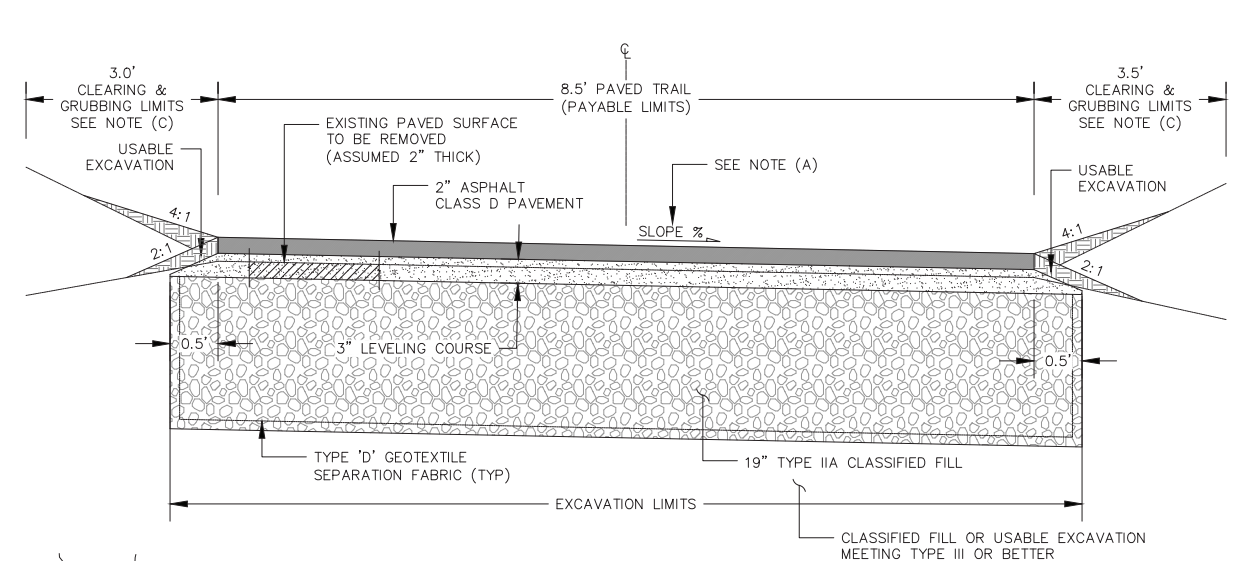
TYPICAL SECTION A
TRAIL REMOVE AND REPLACE PAVEMENT
STA. 26+50 to STA. 28+00



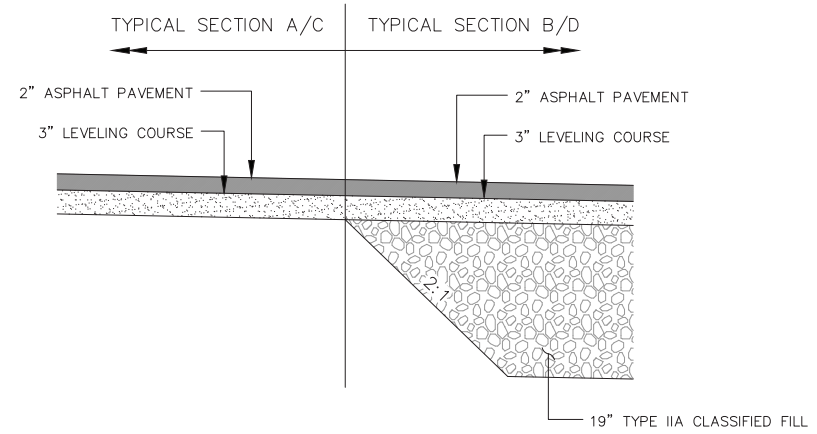
TYPICAL SECTION C
SPUR TRAIL REMOVE AND REPLACE PAVEMENT (NO SHOULDER)
STA. 15+55 to STA. 20+98



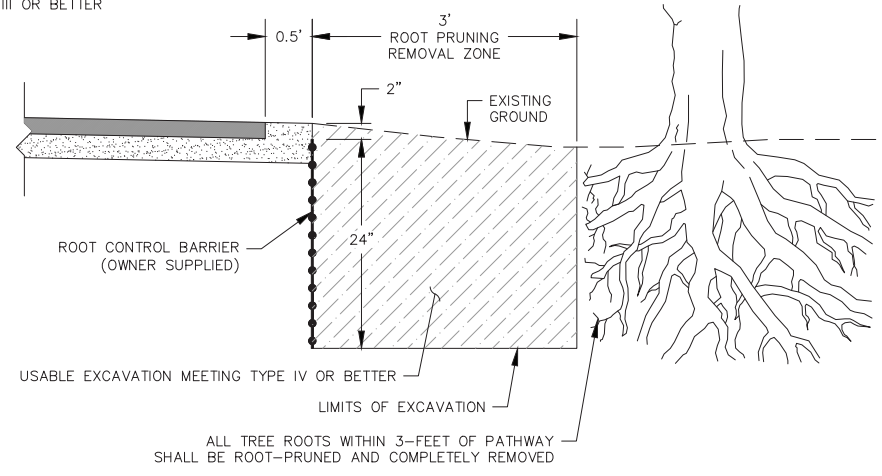
TYPICAL SECTION B
TRAIL REPLACEMENT
STA. 20+62.22, 110.72' RT to STA. 26+50
STA. 28+00 to STA. 30+75



TYPICAL SECTION D
SPUR TRAIL REPLACEMENT (NO SHOULDER)
STA. 10+00 to STA. 15+55



TRANSITION DETAIL



| STATION | LEFT | RIGHT |
|--------------------------|------|-------|
| 10+50 TO 20+50 | | X |
| 20+50 TO 20+62 - 110' RT | | X |
| 20+62 - 110' RT TO 23+00 | | X |
| 26+00 TO 28+50 | X | X |

TYPICAL ROOT BARRIER

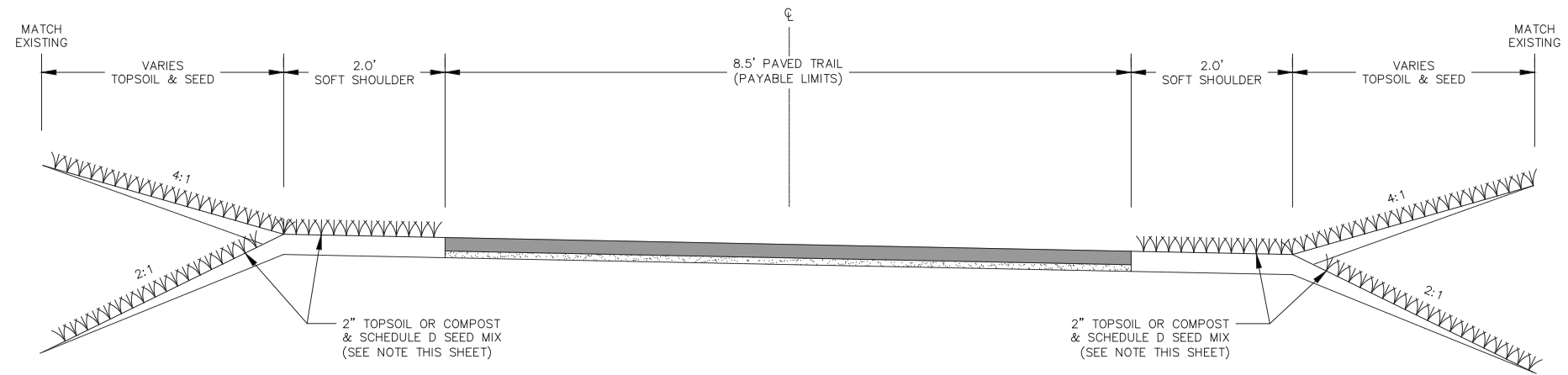
- TYPICAL SECTION NOTES:**
- A. CROSS SLOPES SHALL BE MINIMUM OF 1% AND A MAXIMUM OF 2%. ENGINEER TO VERIFY PRIOR TO PAVING. FOR SLOPE TRANSITIONS AT TIE-INS, INTERSECTIONS AND NON-TYPICAL AREAS, ADJUST LEVELING COURSE GRADE LONGITUDINALLY TO PERPETUATE DRAINAGE. FINISHED CROSS SLOPES EXCEEDING THE TOLERANCES SHALL BE REMOVED AT THE EXPENSE OF THE CONTRACTOR.
 - B. SEAL ALL JOINTS IN CONFORMANCE WITH SECTION 40.05.
 - C. CLEARING AND GRUBBING LIMITS SHALL EXTEND 3.5' FROM EDGE OF PAVEMENT OR 1' FROM CATCH LIMITS, WHICHEVER IS GREATER.
 - D. INSTALL SOLID 4-INCH YELLOW CENTER LINE TRAFFIC MARKING ALONG HORIZONTAL CURVES.

| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------|-------|----------------|----------|------------|------------------|----------|------------|-----|------|-------------|----|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| CONSTRUCTION RECORD | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| | | | | PLAN CHECK | | | | | | | | | |
| | | | | REVISIONS | | | | | | | | | |

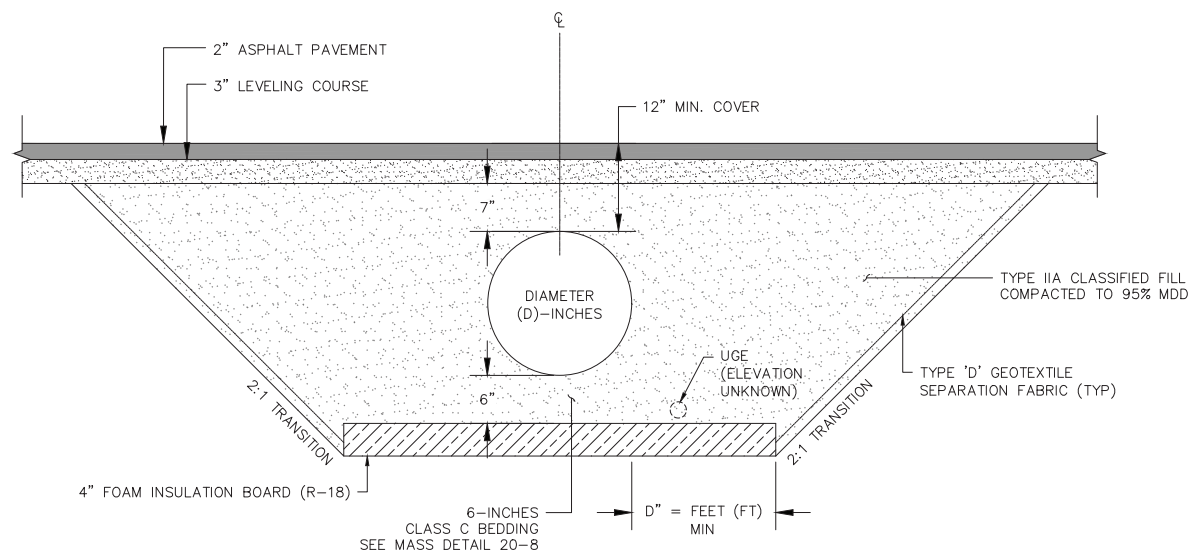
| | | | | | |
|---|--|--|--|--|-----------------------------------|
| The Boutel Company, Inc. 601 E. 57th Place #102 Anchorage, AK, 99518 Ph. 907-522-6776 Fx. 907-522-6779 License No. AEC0957 | | | | PARKS AND RECREATION DEPARTMENT RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS TYPICAL SECTIONS | |
| | | | | SCALE: HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 STATUS: FINAL |

TOPSOIL & SEED NOTE:

CONTRACTOR SHALL TAKE CARE TO MINIMIZE DISTURBANCE OF VEGETATED GROUND OUTSIDE OF THE CATCH LIMITS. ALL DISTURBED AREAS OUTSIDE OF THE PAYABLE LIMITS SHALL BE STABILIZED WITH 2" TOPSOIL AND SEED AT THE EXPENSE OF THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



TOPSOIL AND SEED DETAIL



NEW CULVERT INSULATION DETAIL

| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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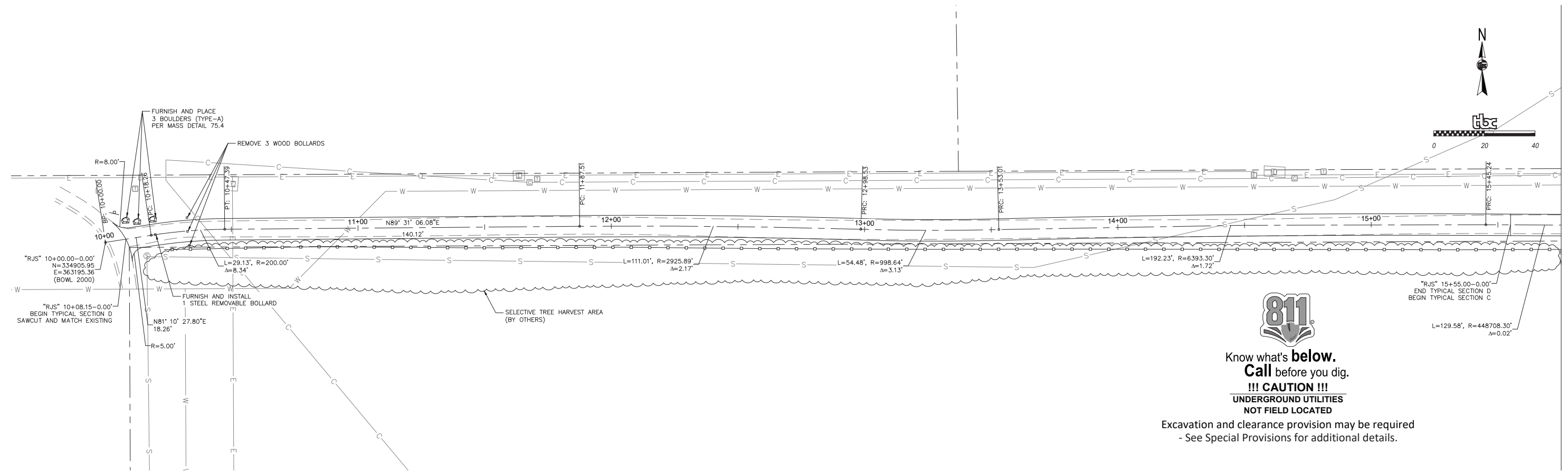
STATE OF ALASKA
49th
LOREN L. BECIA
No. CE-5585
08/01/23
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE PARKS AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

MUNICIPALITY OF ANCHORAGE

PARKS AND RECREATION DEPARTMENT
RUSSIAN JACK SPRINGS
TRAIL & BRIDGE IMPROVEMENTS
TYPICAL SECTIONS

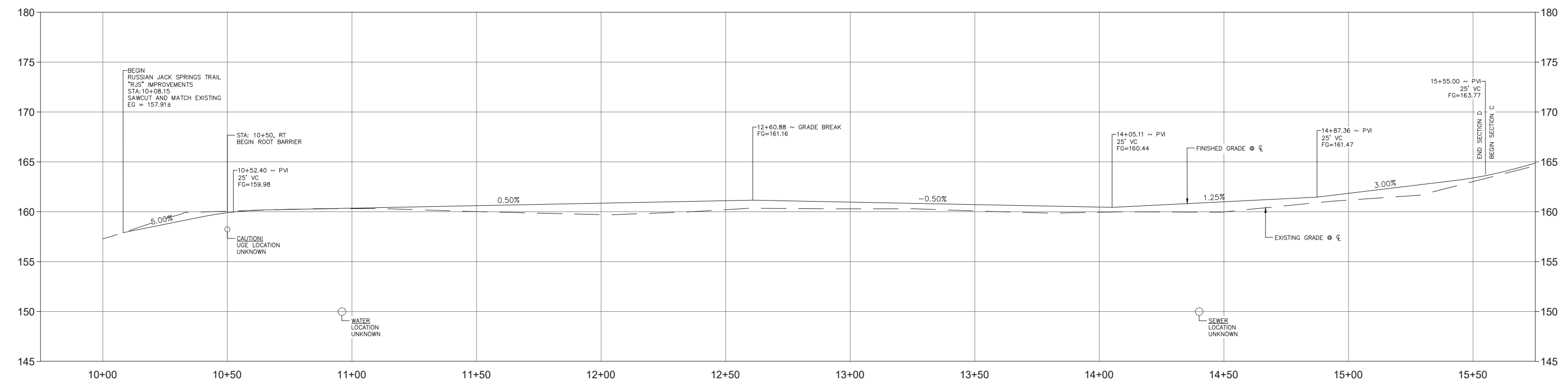
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|-------|----------------|------------------|-----------------------|-------|----------|
| SCALE | HOR. PER SHEET | DATE: 02/20/2023 | GRID: SW1436 & SW1437 | SHEET | D2 of D2 |
| | VER. PER SHEET | STATUS: FINAL | | | |



Know what's below.
 Call before you dig.
!!! CAUTION !!!
 UNDERGROUND UTILITIES
 NOT FIELD LOCATED

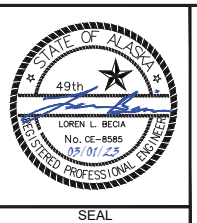
Excavation and clearance provision may be required
 - See Special Provisions for additional details.

MATCHLINE "RJS" STA 15+75 SHEET F2



| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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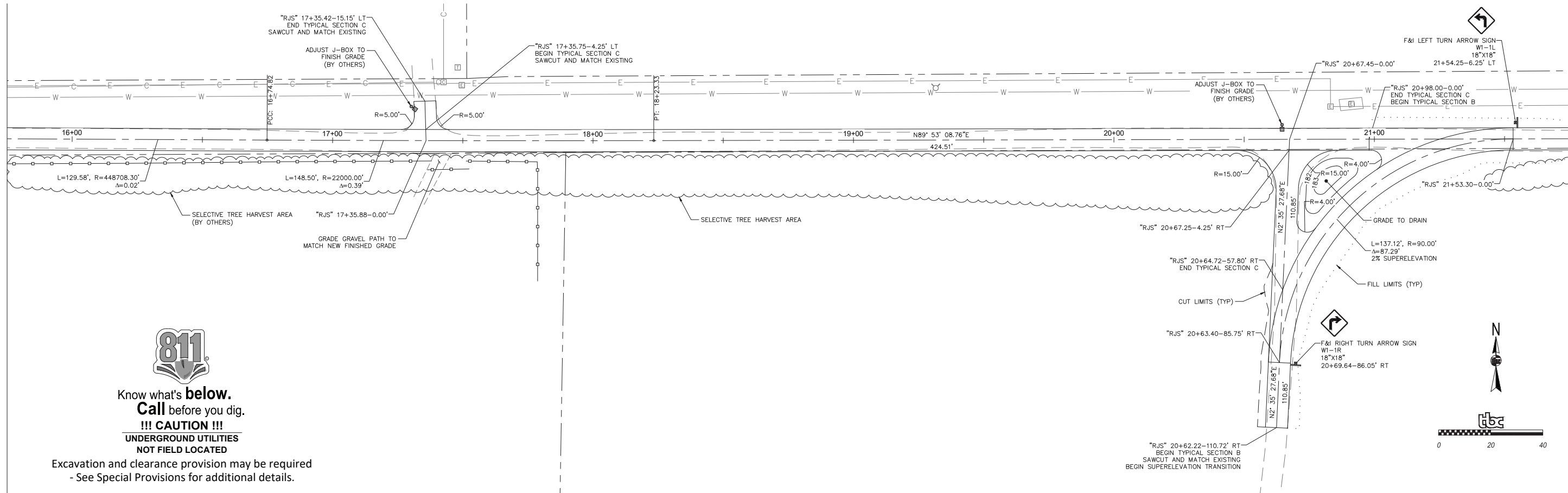


PARKS AND RECREATION DEPARTMENT
 RUSSIAN JACK SPRINGS
 TRAIL & BRIDGE IMPROVEMENTS
 "RJS" 10+00 (BOP) TO 15+75

| | | | | | |
|-------|----------------|------------------|-----------------------|-------|----------|
| SCALE | HOR. PER SHEET | DATE: 02/20/2023 | GRID: SW1436 & SW1437 | SHEET | F1 of F4 |
| | VER. PER SHEET | STATUS: FINAL | | | |

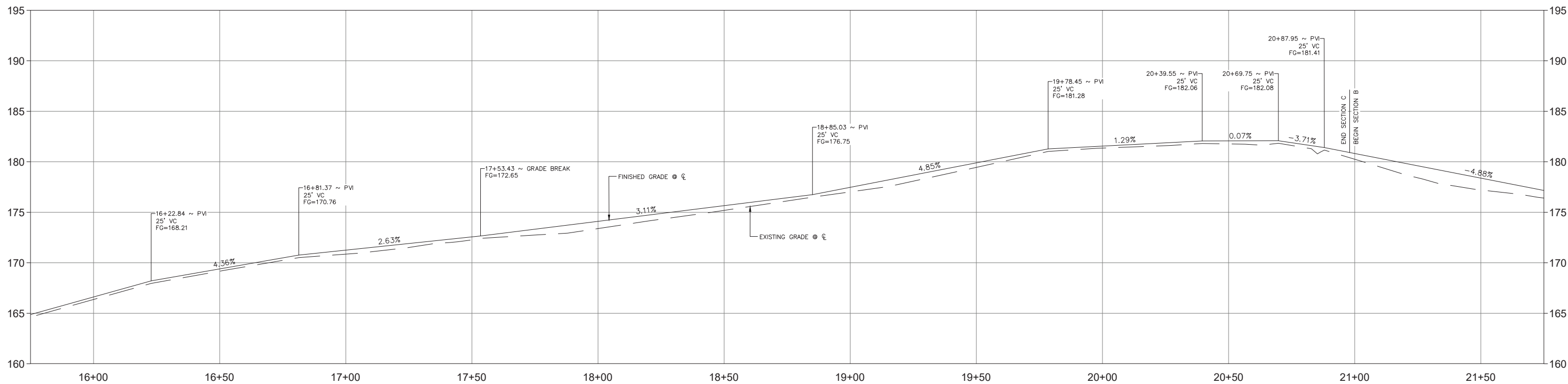
MATCHLINE "RJS" STA 15+75 SHEET F1

MATCHLINE "RJS" STA 21+75 SHEET F3



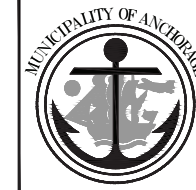
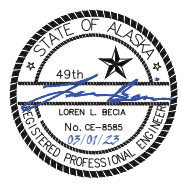
Know what's below.
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 UNDERGROUND UTILITIES
 NOT FIELD LOCATED

Excavation and clearance provision may be required
 - See Special Provisions for additional details.



| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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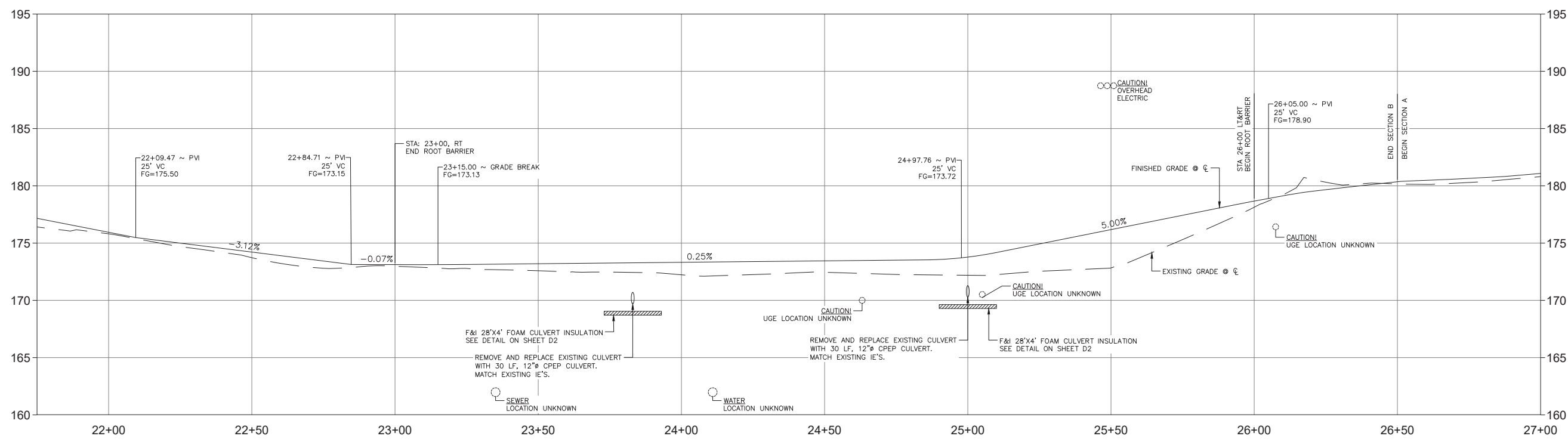
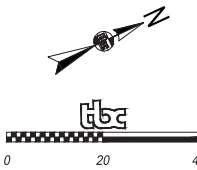
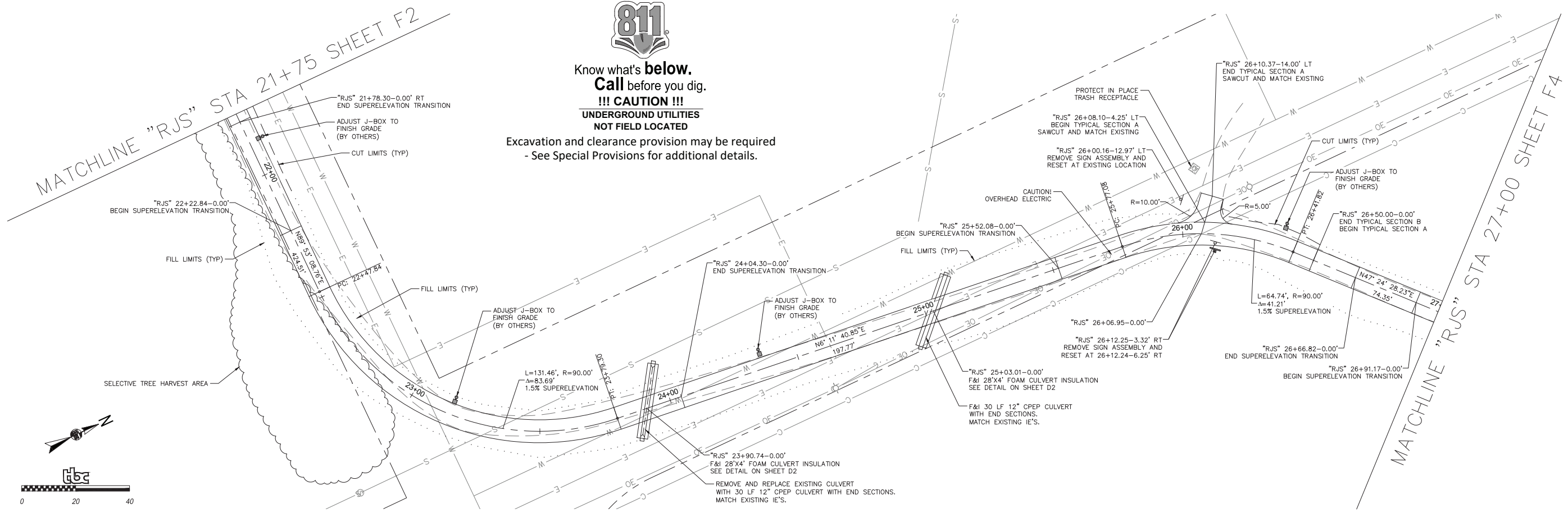
PARKS AND RECREATION DEPARTMENT
 RUSSIAN JACK SPRINGS
 TRAIL & BRIDGE IMPROVEMENTS
 "RJS" 15+75 TO 21+75

SCALE: HOR. PER SHEET, VER. PER SHEET
 DATE: 02/20/2023
 STATUS: FINAL
 GRID: SW1436 & SW1437
 SHEET: F2 of F4



Know what's below.
Call before you dig.

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UNDERGROUND UTILITIES
NOT FIELD LOCATED
Excavation and clearance provision may be required
- See Special Provisions for additional details.



| | | | | | | | | | | | | | | |
|---------------------|--|-----------------|----------|-------|----------------|----------|------------|------------------|------------|------------|------|------|-------------|----|
| FIELD BOOKS | | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
| DESIGN: | | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| | | | | | PLAN CHECK | | REVISIONS | | CONSULTANT | | SEAL | | | |

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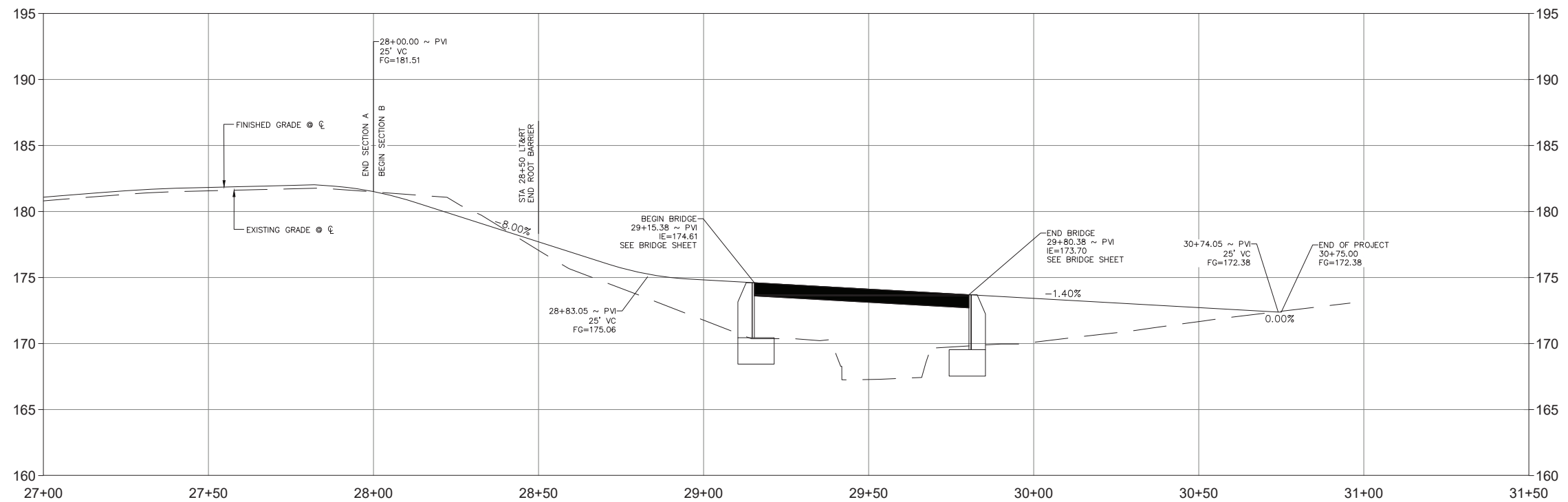
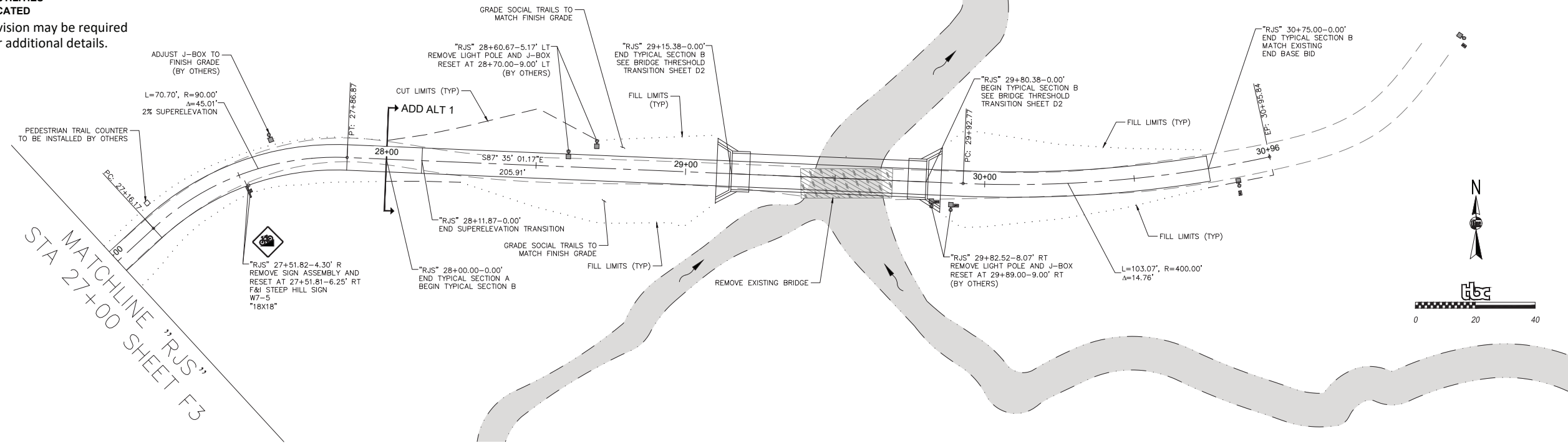
MUNICIPALITY OF ANCHORAGE

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| PARKS AND RECREATION DEPARTMENT | | | |
| RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS | | | |
| "RJS" 21+75 TO 27+00 | | | |
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 STATUS: FINAL | GRID: SW1436 & SW1437 SHEET F3 of F4 |



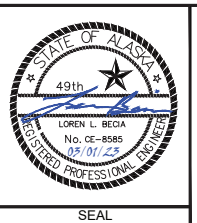
Know what's below.
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 UNDERGROUND UTILITIES
 NOT FIELD LOCATED

Excavation and clearance provision may be required
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| FIELD BOOKS | BM NO. | LOCATION | ELEV. | DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|---------------------|-----------------|----------------|-------|----------------|----------|------------|------------------|-----------|------------|-----|------|-------------|------|
| DESIGN: | | | | BASE | TBC | | TELEPHONE | | | | | | |
| STAKING: | | | | TOPOGRAPHY | TBC | | ELECTRIC | | | | | | |
| ASBUILT: | | | | PROFILE | TBC | | CABLE TV | | | | | | |
| CONTRACTOR: | BASIS OF DATUM: | | | SANITARY SEWER | | | TRAFFIC SIGNAL | | | | | | |
| INSPECTOR: | | | | STORM SEWER | | | DESIGN | TBC | | | | | |
| | | | | WATER | | | QUANTITIES | TBC | | | | | |
| | | | | GAS | | | MUN. FINAL CHECK | | | | | | |
| CONSTRUCTION RECORD | | VERTICAL DATUM | | PLAN CHECK | | | | REVISIONS | | | | CONSULTANT | SEAL |

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PARKS AND RECREATION DEPARTMENT
 RUSSIAN JACK SPRINGS
 TRAIL & BRIDGE IMPROVEMENTS
 "RJS" 27+00 TO 31+50 (EOP)

| | | | | |
|-------|----------------------------------|-----------------------------------|-----------------------|------------------------------|
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 02/20/2023 STATUS: FINAL | GRID: SW1436 & SW1437 | SHEET F4 of F4 |
|-------|----------------------------------|-----------------------------------|-----------------------|------------------------------|

GENERAL STRUCTURAL NOTES

GENERAL

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION SHALL COMPLY WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (LGSDPB), AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO), AND THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE (MOA).

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

STRUCTURAL DESIGN DATA

STRUCTURAL DESIGN IS IN ACCORDANCE WITH LGSDPB, AASHTO, AND THE 2018 IBC AS AMENDED AND ADOPTED BY THE MOA.

REFER TO CIVIL DRAWINGS FOR ELEVATIONS, SLOPES, DEPRESSIONS, ETC.

THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

WEARING SURFACE: CONCRETE IN METAL DECK + 2" OVER FLUTESS = 43 PSF ASPHALT TAPER FROM 1" TO 3.5" (1% SLOPE) = 35 PSF

LIVE LOADS: 90 PSF PEDESTRIAN LOAD VEHICLE AXLE LOADS (FRONT / REAR, STYLE) 20,000 LB H10 VEHICLE (4 KIPS / 16 KIPS SINGLE) UTILITY CONDUIT BELOW SURFACE OF BRIDGE AT MAX LOAD OF 40 PLF

SNOW: 50 PSF

WIND LOADS: BASIC WIND SPEED (AASHTO)=132 MPH, Kz=0.84, Ir = 1.15, Cd=1.30, UTILIZING FULL BRIDGE PROFILE AREA

SEISMIC LOADS: (AASHTO) PGA=0.541

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2000 PSF UNDER SUSTAINED LOADING.

ALL ORGANIC, FROZEN, OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB-GRADE OR COMPACTED NFS FILL.

SUB-GRADES BENEATH ABUTMENT SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS MEASURED BY ASTM D1557. BACKFILL AROUND AND ABOVE ABUTMENT SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY.

DEFERRED SUBMITTALS

THE FOLLOWING ITEM IS NOT INCLUDED IN THESE DRAWINGS AND REQUIRES STRUCTURAL DESIGN TO BE FURNISHED BY THE CONTRACTOR:
1. PREFABRICATED BRIDGE.

DRAWINGS AND CALCULATIONS FOR BUILDER-DESIGNED COMPONENTS, SEALED BY THE ALASKA STATE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. SUBMITTALS OF BUILDER-DESIGNED ITEMS SHALL INCLUDE LOCATIONS, MAGNITUDES, AND DIRECTIONS OF ALL FORCES TRANSFERRED TO THE STRUCTURE.

SUBMITTALS

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED BY THE CONTRACT DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS. DIMENSIONS AND QUANTITIES ARE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED.

STRUCTURAL CONCRETE

CAST-IN-PLACE CONCRETE SHALL BE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (AKDOT-PF SSHC 2020):

ABUTMENTS: CLASS A (MIN 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI)

DECKING: CLASS A-A (MIN 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI)

PORTLAND CEMENT SHALL CONFORM TO ASTM C150. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH. ALL AGGREGATE SHALL BE NORMAL WEIGHT MATERIAL CONFORMING TO ASTM C33. WATER SHALL MEET ASTM C94, SECTION 4.1.3.

CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. COMPLY WITH IBC SECTION 1905. ALL CONCRETE MAY CONTAIN A WATER REDUCING ADMIXTURE MEETING ASTM C494, TYPE A. MAXIMUM SLUMP SHALL BE 4-INCHES FOR CLASS A AND 3-INCHES FOR CLASS A-A. MAXIMUM WATER CEMENT RATIO SHALL BE 0.45 FOR CLASS A AND 0.44 FOR CLASS A-A.

NON-SHRINK GROUT SHALL BE METALLIC, CONFORMING TO ASTM C1107.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATION AND ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. CONCRETE PLACED DURING COLD WEATHER SHALL CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AIR ENTRAINMENT PER ACI 318 TABLE 4.2.1.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:

- A. CONCRETE CAST AGAINST EARTH 3-INCHES
- B. CONCRETE EXPOSED TO EARTH OR WEATHER 2-INCHES

3/4" CHAMFER ALL EXPOSED CONCRTE EDGES.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318, AASHTO LRFD BRIDGE DESIGN SPECIFICATION, CRSI MSP-1 AND ACI SP-66. DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.

TYPICAL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. LAP SPLICES SHALL BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL STEEL

MATERIALS:

- STRUCTURAL STEEL TUBING (HSS): ASTM A847
- ALL OTHER SHAPES AND PLATES: ASTM A588
- FASTENERS: ASTM A325, TYPE 3 BOLTS
- ANCHOR RODS: F1554, GRADE 36, GALV

ALL DETAILING, FABRICATION AND ERECTIONS SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION. FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, BE CERTIFIED BY THE MUNICIPALITY OF ANCHORAGE, OR SPECIAL INSPECTIONS AT THE CONTRACTOR'S EXPENSE, MUST BE PROVIDED IN THE FABRICATION SHOP.

WELDING RODS AND BARE ELECTRODES SHOULD BE SELECTED ACCORDING TO AWS SPECIFICATIONS FOR METAL ALLOY WELDED.

REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.

CONTRACTOR STATEMENT OF RESPONSIBILITY

CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER IN ACCORDANCE WITH IBC 1704.4. THE STATEMENT SHALL ACKNOWLEDGE AWARENESS OF THE SPECIAL REQUIREMENTS OF THE SPECIAL INSPECTION PLAN; ACKNOWLEDGE THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS; IDENTIFY PROCEDURES FOR EXERCISING CONTROL; THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS; AND IDENTIFY PERSONS THAT WILL EXERCISE CONTROL AND THEIR QUALIFICATIONS.

STATEMENT OF SPECIAL INSPECTIONS

STRUCTURAL SYSTEMS ARE SUBJECT TO THE REQUIREMENTS OF THIS STATEMENT OF SPECIAL INSPECTIONS AND THE STRUCTURAL SPECIAL INSPECTION AND TESTING SCHEDULE IN ACCORDANCE WITH IBC 2018 SECTION 1705.

THE OWNER SHALL ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC 2018. SPECIAL INSPECTION AND TESTING SHALL BE AS OUTLINED IN THE SPECIAL INSPECTIONS AND TESTING SCHEDULE. WHERE REQUIREMENTS OVERLAP, THE MORE STRINGENT IS TO BE USED.

SPECIAL INSPECTION IS NOT REQUIRED FOR COMPONENTS FABRICATED IN A SHOP APPROVED BY THE MUNICIPALITY OF ANCHORAGE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

DISTRIBUTION OF REPORTS

COPIES OF THE SPECIAL INSPECTION AND TEST REPORTS SHALL BE DISTRIBUTED TO THE GENERAL CONTRACTOR AND THE ENGINEER OF RECORD. REPORTS SHALL BE COMPLETED DAILY AND DISTRIBUTED ON A WEEKLY BASIS AND SHALL BE DISTRIBUTED BY THE MONDAY FOLLOWING THE WEEK IN WHICH THE INSPECTION OR TEST WAS COMPLETED. A COPY OF ALL SPECIAL INSPECTION REPORTS, DEFICIENCIES AND CORRECTIVE ACTIONS SHALL BE MAINTAINED AT THE JOB SITE.

STRUCTURAL OBSERVATIONS

STRUCTURAL OBSERVATIONS ARE REQUIRED PER IBC 1704.6. SITE VISITS BY THE ENGINEER OF RECORD OR A REGISTERED ENGINEER APPROVED BY THE ENGINEER OF RECORD SHALL BE MADE ON A PERIODIC BASIS AT CRITICAL STAGES OF CONSTRUCTION TO MAKE VISUAL OBSERVATIONS OF THE CONSTRUCTION FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. COPIES OF THE OBSERVATION REPORTS SHALL BE DISTRIBUTED WITHIN 2 WORKING DAYS OF THE SITE VISIT TO THE GENERAL CONTRACTOR, THE CIVIL ENGINEER, AND TO THE SPECIAL INSPECTOR INVOLVED IN ANY ISSUES RAISED IN THE REPORT.

| SPECIAL INSPECTION & TESTING SCHEDULE | | | | |
|--|------|------|---|--|
| ITEM | C.I. | P.I. | REFERENCE STANDARD | REMARKS |
| PREFABRICATED ITEMS | X | X | IBC 1704.2.5 | SAME AS WORK DONE ON SITE |
| SOILS | | | IBC 1705.6, TABLE 1705.6 | |
| VERIFY: - MATERIAL BELOW FOUNDATIONS ARE ADEQUATE FOR BEARING CAPACITY - EXCAVATION DEPTH AND PROPER MATERIAL REACHED BY DEPTH - PRIOR TO COMPACTED FILL, OBSERVE SUBGRADE AND SITE PREPERATION | | X | | |
| VERIFY USE OF PROPER MATERIALS DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL | X | | | |
| PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS | T | | | ONLY IF TOTAL CONTROLLED FILL DEPTH IS MORE THAN 12-INCHES |
| CONCRETE: | | | ACI 318-14, 301-16, 302.1R-15, ACI 311.1R-07; ACI 311.4R-05; IBC 1705.3, TABLE 1705.3 | |
| REINFORCING MATERIALS AND PLACEMENT | | X | ACI 318: Ch.20, 25.2, 25.3, 26.6.1-26.6.3 | |
| INSPECTION OF FORMWORK FOR SHAPE, LOCATION & DIMENSIONS | | X | ACI 318 26.11.2(b) | |
| ANCHOR RODS, EMBEDDED BOLTS & INSERTS | | X | ACI 318.17.8.2 | PRIOR TO AND DURING CONCRETE PLACEMENT |
| USE OF REQUIRED MIX DESIGN | | X | ACI 318: Ch.19, 26.4.3, 26.4.4; ACI 304R-00; IBC 1904.1, 1904.2 | |
| CONCRETE SLUMP, AIR CONTENT, TEMPERATURE & PREPARATION OF STRENGTH TEST SPECIMENS | T | | ASTM C172, C31; ACI 318: 26.5, 26.12; ACI 311.5-04 | PROVIDE TEST ONCE EVERY 150 CY, OR EACH 5000 SQ-FT OF SLABS OR WALLS, BUT AT LEAST ONCE A DAY DURING PLACEMENT |
| CONCRETE PLACEMENT | X | | ACI 318 26.5; ACI 304.2R-17 | |
| CONCRETE CURING | | X | ACI 318 26.5; ACI 308R-16 | MAINTAIN PROPER TEMPERATURE AND CURING TECHNIQUE |
| PROTECTION OF CONCRETE DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F) | | X | ACI 318 26.5.4, 26.5.5; ACI 306R-16; ACI 305R-20 | |
| GROUTING OF BASE PLATES | X | | | |
| STEEL: | | | | |
| FIELD SPLICES | | X | | |
| <u>SCHEDULE NOTES:</u> | | | | |
| 1. ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR. ITEMS INDICATED WITH A "T" REQUIRE TESTING, ITEMS MARKED WITH A "D" REQUIRE SPECIFIC DOCUMENTATION PER AISC. | | | | |
| 2. C.I. = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL INSPECTOR. | | | | |
| 3. P.I. = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM CONFORMANCE OF WORK | | | | |

STRUCTURAL ABBREVIATIONS

| | | | | | | | | | | | | | | | | | |
|--------|--------------------------|------|----------------------|--------|-------------------|------|---------------------------|------|-----------------------------|-------|------------------------|-------|------------------------|--------|------------------------|------|--------------------|
| @ | At | BLDG | Building | COL | Column | EW | Each Way | IBC | International Building Code | MIN | Minimum | PSI | Pounds-Per-Square-Inch | T&G | Tongue and Groove | VERT | Vertical |
| AB | Anchor Bolt | BLKG | Blocking | CONC | Concrete | EXP | Expansion | INT | Interior | (N) | New | REINF | Reinforcement | T.O. | Top Of | w/ | With |
| ADD'L | Additional | BOT | Bottom | CONT | Continuous | FDTN | Foundation | LAG | Lag Screw | OC | On-Center | REQ'D | Required | T.O.B. | Top Of Beam | W/O | Without |
| ADH | Adhesive | BFE | Base Flood Elevation | CONTR | Contractor | FF | Finished Floor | LOC | Location, Locate | OH | Overhead | SCH | Schedule | T.O.S. | Top Of Steel | W | Wide Flange |
| AFF | Above Finished Floor | BTWN | Between | DIA, Ø | Diameter | GALV | Galvanized | LONG | Longitudinal | OPNG | Opening | SIM | Similar | T.O.W. | Top Of Wall | W/C | Water/Cement Ratio |
| ALT | Alternate | CJ | Construction Joint | (E) | Existing | GLB | Glue Laminated Beam | MAX | Maximum | PL, Ⓟ | Plate | SQ | Square | TRANS | Transverse | WWF | Welded Wire Fabric |
| APPROX | Approximate | CL | Centerline | EA | Each | HORZ | Horizontal | MEZZ | Mezzanine | PLS | Places | STL | Steel | TYP | Typical | | |
| ARCH | Architect, Architectural | CLR | Clear | EQ | Earthquake, Equal | HSS | Hollow Structural Section | MFR | Manufacturer | PSF | Pounds-Per-Square-Foot | T&B | Top and Bottom | UON | Unless Otherwise Noted | | |

| CONSTRUCTION RECORD | VERTICAL DATUM | PLAN CHECK | REVISIONS | CONSULTANT | CONSULTANT | SEAL |
|---------------------|----------------|------------|-----------|------------|------------|------|
| | | | | | | |

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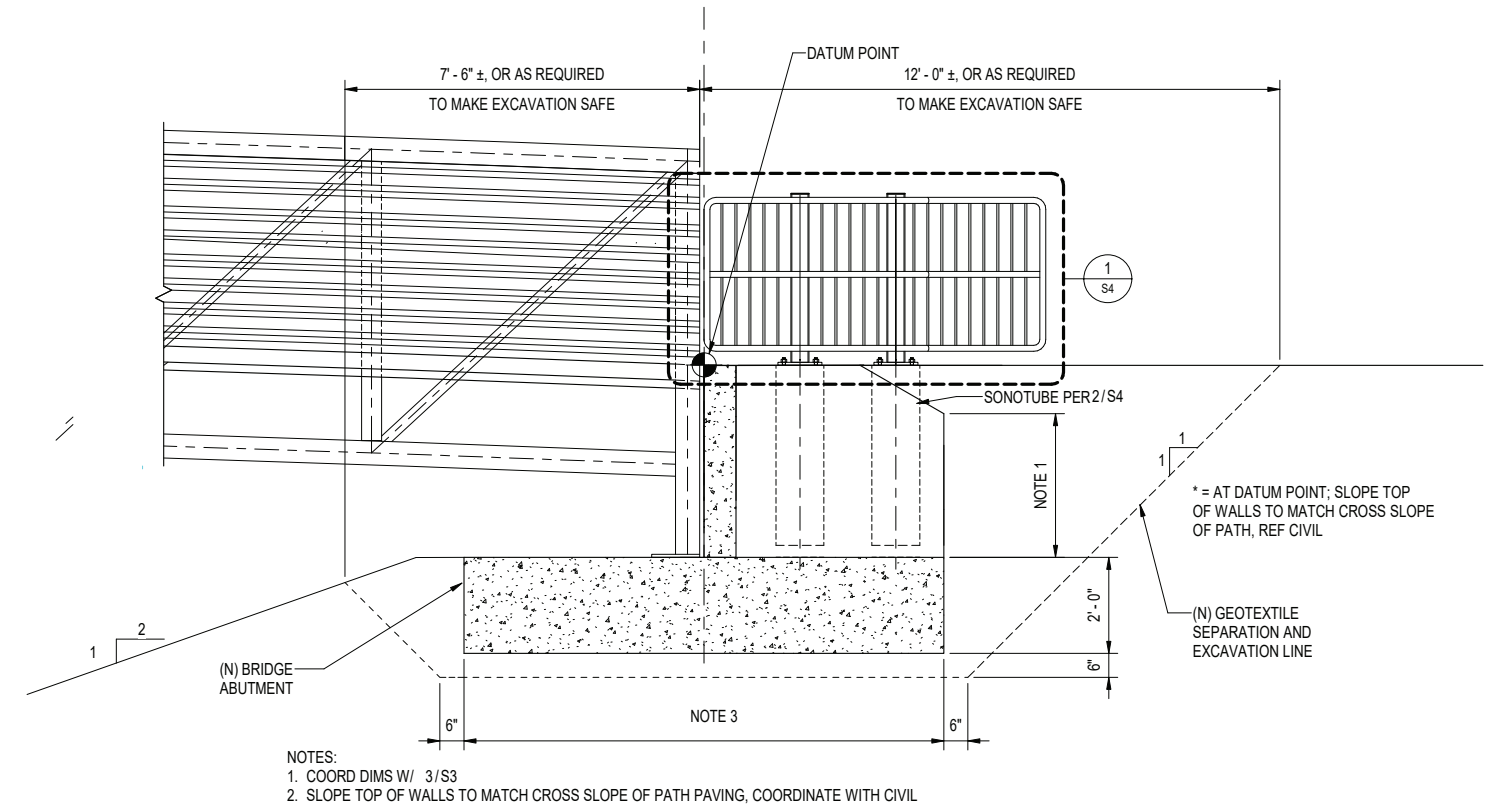
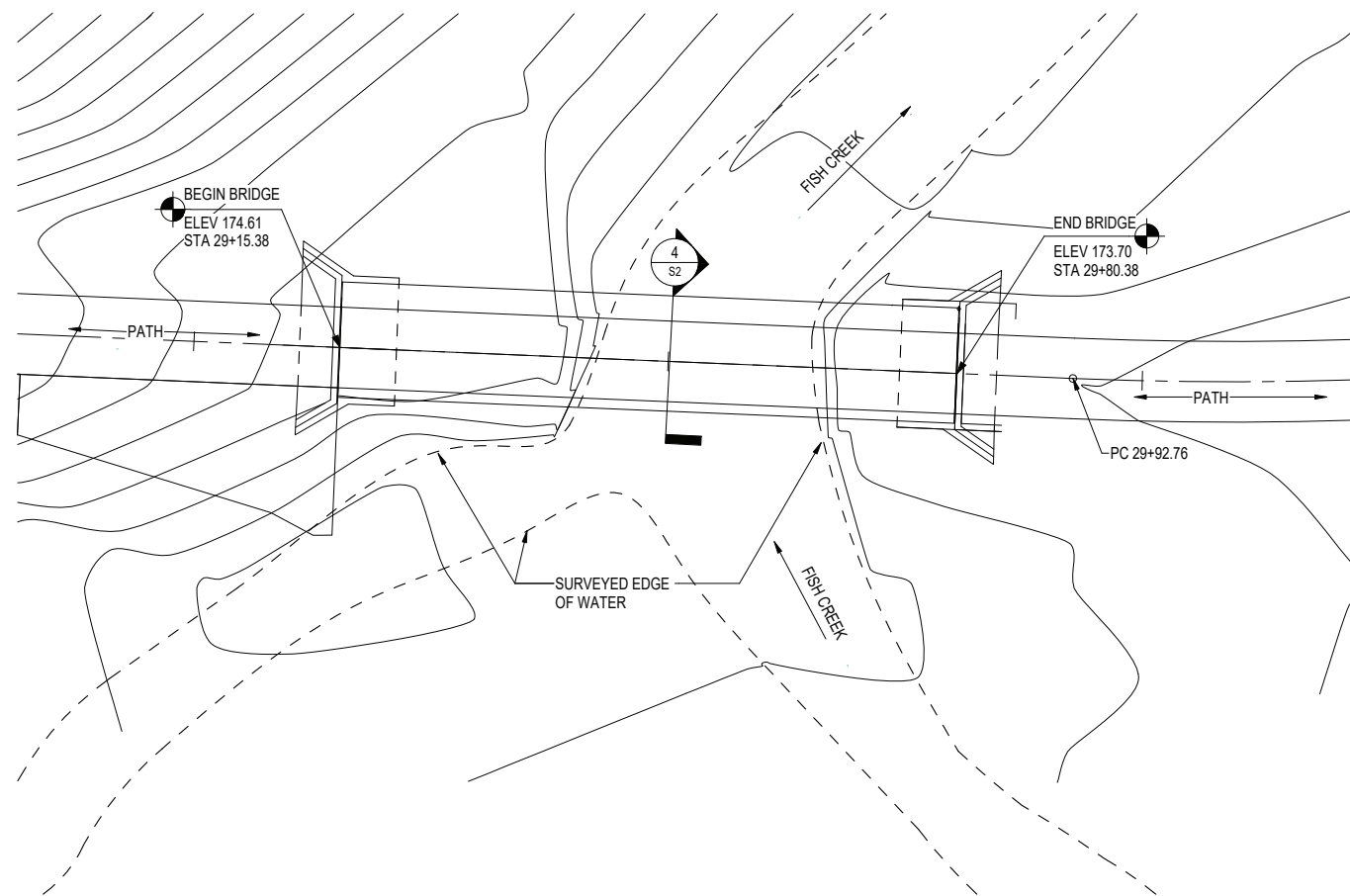
STATE OF ALASKA
49th
JASON E KWATKOWSKI
No. CE 118884
REGISTERED PROFESSIONAL ENGINEER
12.22.22

ANCHORAGE PARKS AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

MUNICIPALITY OF ANCHORAGE

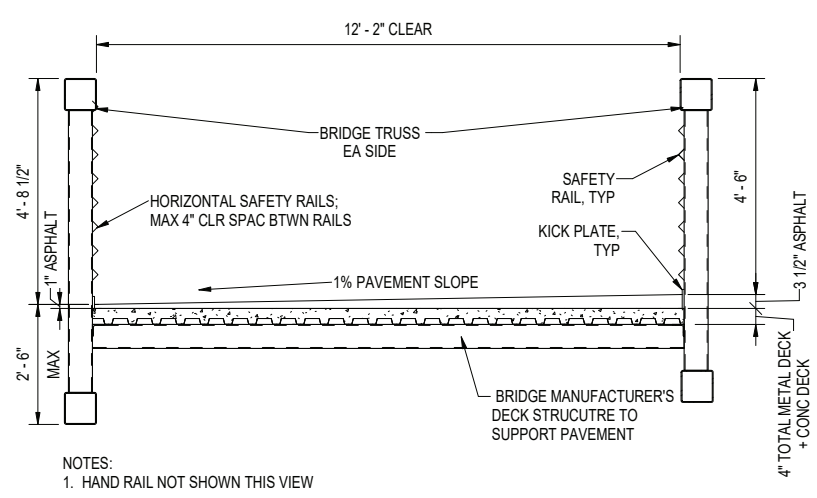
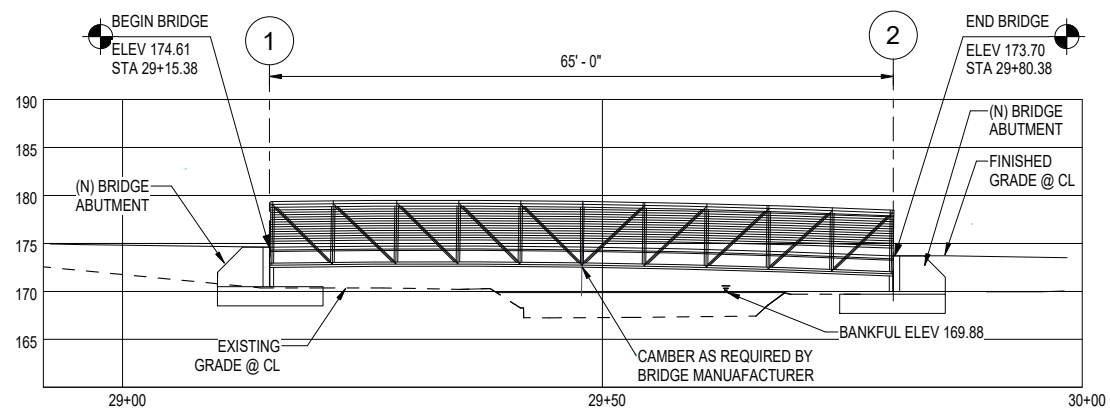
PARKS AND RECREATION DEPARTMENT
RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS
GENERAL NOTES & QUALITY ASSURANCE

SCALE: HOR. PER SHEET VER. PER SHEET DATE: 12/22/2022 GRID: N/A STATUS: CONSTRUCTION DOCUMENTS SHEET S1 of S4



1 BRIDGE PLAN
S2 1" = 10'-0"

2 ABUTMENT SECTION
S2 1/2" = 1'-0"



3 R JACK BRIDGE ELEVATION
S2 1" = 10'-0"

4 BRIDGE SECTION
S2 1/2" = 1'-0"

| REV | DATE | DESCRIPTION | BY |
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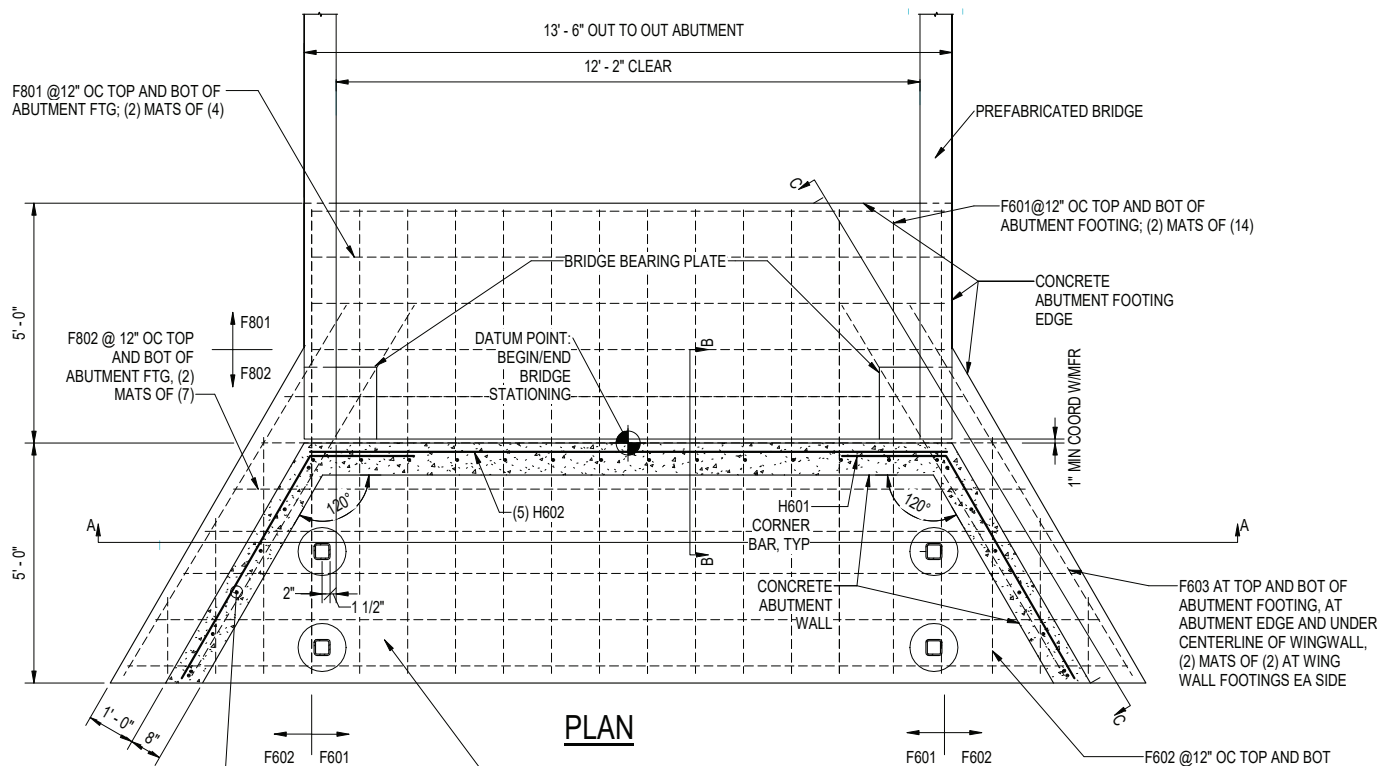
STATE OF ALASKA
49 TH
JASON E KWATKOWSKI
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REGISTERED PROFESSIONAL ENGINEER
12.22.22

ANCHORAGE PARKS AND RECREATION
HEALTHY PARKS, HEALTHY PEOPLE

MUNICIPALITY OF ANCHORAGE

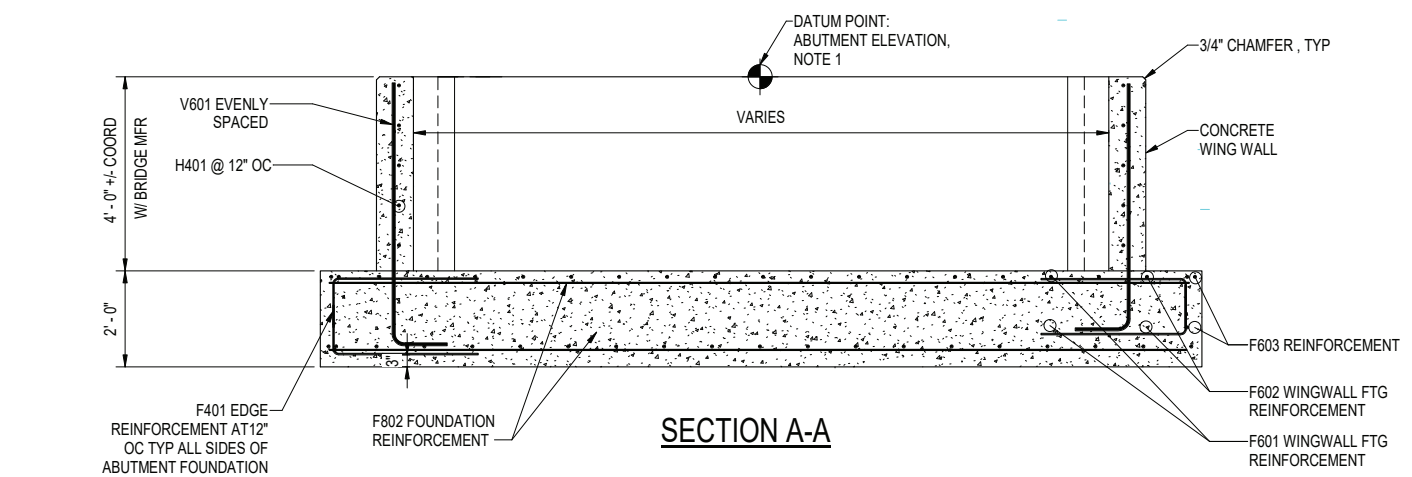
PARKS AND RECREATION DEPARTMENT
RUSSIAN JACK SPRINGS
TRAIL & BRIDGE IMPROVEMENTS
PLAN & PROFILE

| | | | | | |
|---------------------|----------------------------------|--------------------------------|-----------|-------|----------|
| SCALE | HOR. PER SHEET VER. PER SHEET | DATE: 12/22/2022 | GRID: N/A | SHEET | S2 of S4 |
| CONSTRUCTION RECORD | | STATUS: CONSTRUCTION DOCUMENTS | | | |



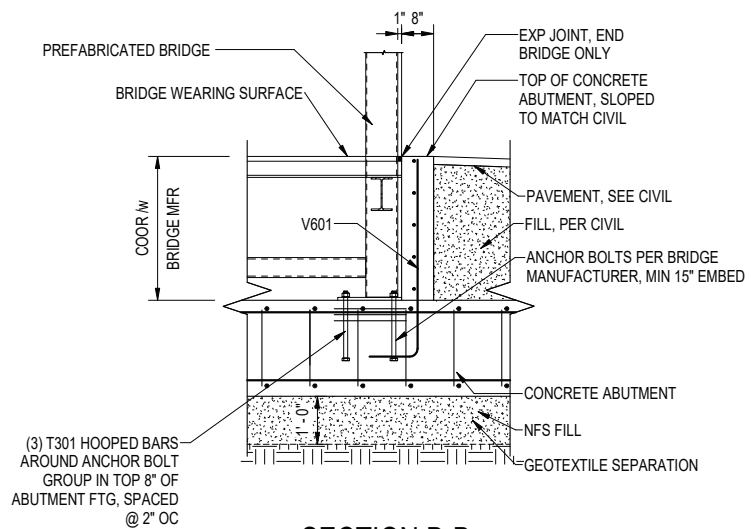
V601 @ 12" OC AT WING WALL AND BACK WALL; PROVIDE (2) V601 AT END OF EA WING WALL AND AT INTERSECTION WITH BACK WALL - AT BACK WALL ALTERNATE BEND DIR EVERY OTHER BAR

GUARDRAIL POST FDTNS (ABOVE), NOT CONNECTED TO ABUTMENT FDTN, SEE 2/S4

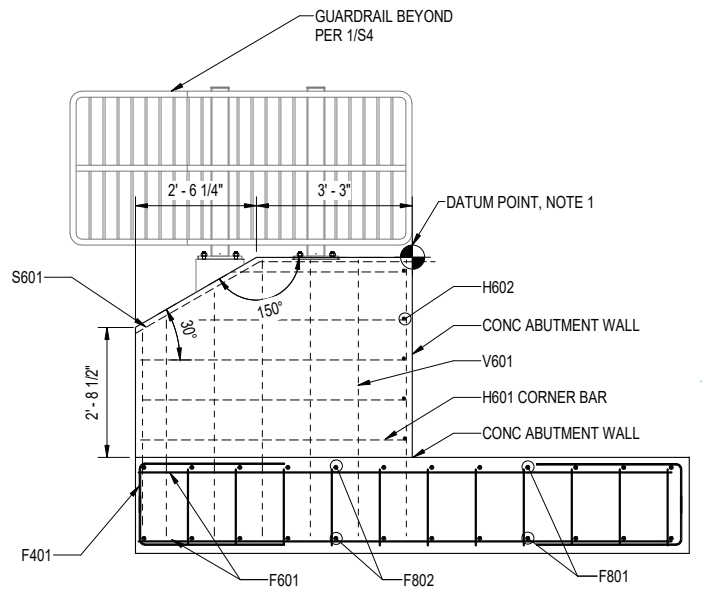


NOTES:
 1. AT DATUM POINT; SLOPE TOP OF WALLS TO MATCH CROSS SLOPE OF PATH, REF CIVIL
 2. F401 EDGE REINFORCEMENT NOT SHOWN IN PLAN VIEW

3 BRIDGE ABUTMENT
 S3 1/2" = 1'-0"



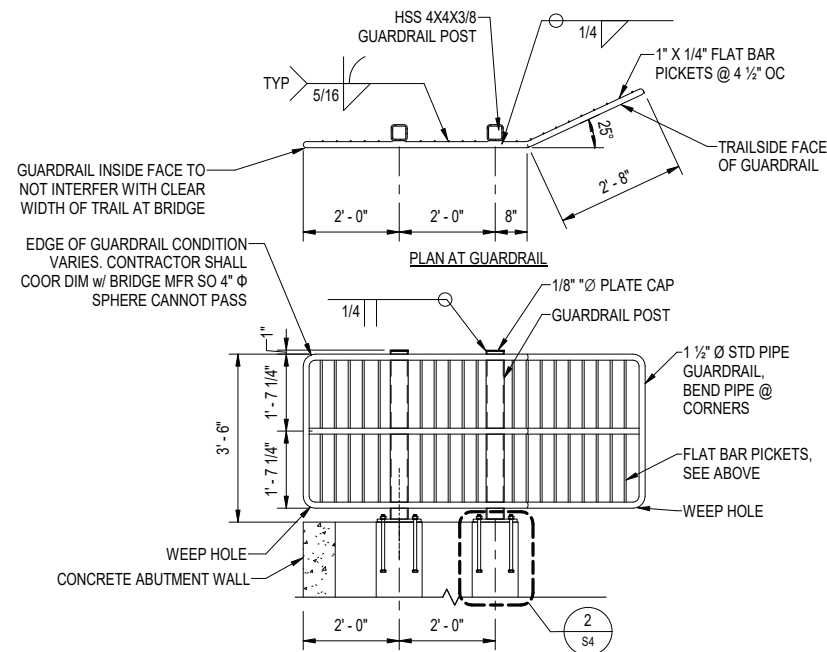
SECTION B-B



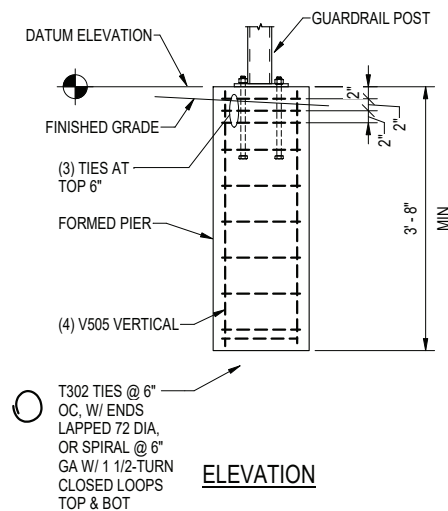
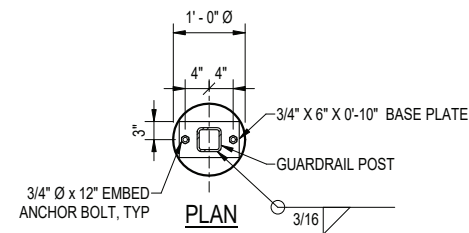
SECTION C-C

| REV | DATE | DESCRIPTION | BY |
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| ReidMiddleton 4300 S St., Suite 302 Anchorage, AK 99503 Phone 907 562-3439 - www.reidmiddleton.com Copyright Licensure AKCC2598 © Copyright Reid Middleton, Inc. 2022 | The Boutel Company, Inc. 601 E. 57th Place #102 Anchorage, AK 99518 Ph. 907-522-6776 Fx. 907-522-6779 License No. AECC957 | | | | PARKS AND RECREATION DEPARTMENT RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS SECTIONS & DETAILS | | | |
| | | | | | CONSTRUCTION RECORD VERTICAL DATUM PLAN CHECK REVISIONS CONSULTANT CONSULTANT SEAL | SCALE HOR. PER SHEET VER. PER SHEET | DATE: 12/22/2022 STATUS: CONSTRUCTION DOCUMENTS | GRID: N/A SHEET S3 of S4 |



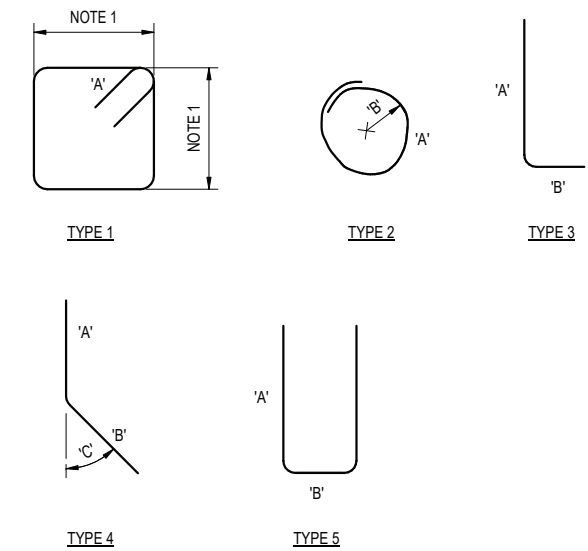
1 TYPICAL GUARDRAIL DETAIL
S4 1/2" = 1'-0"



2 GUARDRAIL POST FOUNDATION
S4 3/4" = 1'-0"

| REINFORCING STEEL - ONE ABUTMENT | | | | | | | |
|----------------------------------|----------|------|--------|----------|-------------|---------|------|
| Mark | Quantity | Size | Length | Type | 'A' | 'B' | 'C' |
| T301 | 6 | #3 | | 1 | 0' - 4 1/2" | | |
| H403 | 6 | #4 | 9'-0" | STRAIGHT | NA | | |
| H602 | 5 | #6 | 13'-3" | STRAIGHT | NA | | |
| H601 | 10 | #6 | | 4 | 5' - 4" | 2' - 2" | 120° |
| F401 | 22 | #4 | | 5 | 3'-0" | 1' - 7" | |
| F601 | 28 | #6 | 9'-8" | STRAIGHT | NA | | |
| F602 | 12 | #6 | NOTE 4 | STRAIGHT | NA | | |
| F603 | 8 | #6 | 9'-0" | STRAIGHT | NA | | |
| F801 | 8 | #8 | 13'-2" | STRAIGHT | NA | | |
| F802 | 14 | #8 | NOTE 3 | STRAIGHT | NA | | |
| S801 | 4 | #6 | 5'-5" | 4 | 3'-1" | 2'-4" | |
| V601 | 28 | #6 | NOTE 5 | 3 | 5'-6" | 1'-1" | |
| V602 | 4 | #6 | 3'-3" | STRAIGHT | NA | | |

- NOTES:**
- CONTRACTOR TO COORDINATE BAR DIMENSIONS WITH BRIDGE SUBMITTAL.
 - BAR BEND NOTATIONS: T = TIE, H = HORIZONTAL, F = FOOTING, AND V = VERTICAL.
 - MAX LENGTH = 21' - 3", LENGTH VARIES, CONTRACTORS OPTION TO HAVE SHIPPED ALL SAME LENGTH AND FIELD CUT TO FIT
 - MAX LENGTH = 5'-0", LENGTH VARIES, CONTRACTORS OPTION TO HAVE SHIPPED ALL SAME LENGTH AND FIELD CUT TO FIT
 - MAX LENGTH = 6' - 7", CONTRACTORS OPTION TO HAVE SHIPPED ALL SAME LENGTH AND FIELD CUT TO FIT BARS AT SHORTER WING WALL SECTION



3 REINFORCING STEEL TABLE
S4 1 1/2" = 1'-0"

| | | | | | | | | | | | |
|---|--|--|----------------|--|--|------------|--|--|----------------|--|--|
| | | | | | | | | | | | |
| PARKS AND RECREATION DEPARTMENT RUSSIAN JACK SPRINGS TRAIL & BRIDGE IMPROVEMENTS GUARDRAIL & REINFORCEMENT DETAILS | | | | | | | | | | | |
| CONSTRUCTION RECORD | | | VERTICAL DATUM | | | PLAN CHECK | | | REVISIONS | | |
| CONSULTANT | | | CONSULTANT | | | SEAL | | | SHEET S4 of S4 | | |