

AWWU PLAN SET
NO. 11279

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
M STREET AND 5TH AVENUE
SEWER IMPROVEMENTS - PHASE II

AWWU PROJECT ID. WM00169

MARCH 2023

VICINITY MAP
ANCHORAGE, ALASKA

RECORD DRAWING

1. DATA PROVIDED
 BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED
 BY NAME _____
 COMPANY: _____
 DATE: _____

3. DATA TRANSFER CHECKED
 Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

| SHEET INDEX | |
|-------------|--------------------------------|
| SHEET NO. | SUBJECT |
| 1 | COVER SHEET |
| 2 | NOTES, LEGEND, & ABBREVIATIONS |
| 3 | SURVEY CONTROL |
| 4 | KEY MAPS AND NOTES |
| 5 | DEMOLITION & REPLACEMENT |
| 6 | WATER AND SEWER PLAN & PROFILE |
| 7 | TYPICAL SECTION & DETAILS |

ACAD FILE: FILE PLOT SCALE: PLOT PLOT DATE: DATE

ABBREVIATIONS

ACP = ASBESTOS CONCRETE PIPE
 ACP = AC PAVEMENT
 APPROX. = APPROXIMATE
 ATI = AT TIME OF INVESTIGATION
 B = BORING
 BM = BENCH MARK
 B.O.C. = BACK OF CURB
 B.O.P. = BEGINNING OF PROFILE
 B.O.P. = BOTTOM OF PIPE
 C&G = CURB AND GUTTER
 CI = CAST IRON
 CL = CENTERLINE
 CONT = CONTINUOUS
 CMP = CORRUGATED METAL PIPE
 CN = CONCRETE
 C.O. = CLEAN OUT
 CPEP = CORRUGATED POLYETHYLENE PIPE
 D = DRAIN
 DI = DUCTILE IRON
 DIA = DIAMETER
 DIP = DI PIPE
 D&R = DISCONNECT & RECONNECT
 E = ELECTRICAL
 EAST, EASTING
 ELEV = ELEVATION
 E.O.P. = END OF PROFILE
 E.O.P. = END OF PAVEMENT
 E.O.S. = END OF SHOULDER
 ESMT = EASEMENT
 EXC = EXCAVATION
 FD = FOUNDATION DRAIN
 F.G. = FINISHED GRADE (ELEV.)
 F.L. = FLOW LINE (ELEV.)
 GAAB = GREATER ANCHORAGE AREA BOROUGH
 GALV. = GALVANIZED
 GB = GRADE BREAK
 H, HORZ = HORIZONTAL
 HDPE = HIGH DENSITY POLYETHYLENE
 HT. = HEIGHT
 I = INCLUDED ANGLE
 IE = INVERT ELEV.
 INV. = INVERT
 K = VERTICAL CURVE INDEX
 L = LENGTH
 LF = LINEAR FEET
 LONG. = LONGITUDINAL
 LAT. = LATITUDE
 LT. = LEFT
 MAX = MAXIMUM
 M.A.S.S. = MOA STANDARD SPECIFICATIONS
 ME = MATCH EXISTING
 MFR = MANUFACTURER
 MH = MANHOLE
 MIN = MINIMUM
 MOA = MUNICIPALITY OF ANCHORAGE
 N = NORTHING, NORTH
 NFS = NON-FROST SUSCEPTIBLE
 NGS = NATIONAL GEODETIC SURVEY
 N.I.C. = NOT IN CONTRACT
 N.T.S. = NOT TO SCALE
 O.C. = ON CENTER
 OF = OUTFALL
 OG = ORIGINAL GROUND (ELEV.)
 OSHA = OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
 P.C. = POINT OF CURVATURE
 PCC = PORTLAND CEMENT CONCRETE
 PCMP = PRE-COATED CMP
 P.I. = POINT OF INTERSECTION
 PL = PROPERTY LINE
 PP = POWER POLE
 P.T. = POINT OF TANGENCY
 R = RADIUS (LENGTH)
 RC = REINFORCED CONCRETE
 R.P. = RADIUS POINT
 RT. = RIGHT

S = SEWER, SOUTH
 SD = STORM DRAIN
 S.I. = STREET INTERSECTION
 SHLDR = SHOULDER
 S.S. = STAINLESS STEEL
 SS = SANITARY SEWER
 STA = STATION
 STD = STANDARD
 T = TANGENT (LENGTH)
 TBC = TOP BACK OF CURB
 TBM = TEMPORARY BENCHMARK
 T.O.C. = TOP OF CONCRETE
 T&S = TOPSOIL AND SEED
 TYP = TYPICAL
 U/G = UNDER GROUND
 UON = UNLESS OTHERWISE NOTED
 V = VENT
 V. VERT = VERTICAL
 V.C. = VERTICAL CURVE
 V.P.C. = VERTICAL P.C.
 V.P.I. = VERTICAL P.I.
 V.P.T. = VERTICAL P.T.
 W = WATER, WEST
 WWF = WELDED WIRE FABRIC
 WT = WATER TABLE
 > = GREATER THAN
 < = LESS THAN
 ≥ = GREATER THAN OR EQUAL TO
 ≤ = LESS THAN OR EQUAL TO

LEGEND

| SYMBOL | | PLAN LEGEND |
|--------------|--------------|-----------------------------------|
| EXISTING (E) | PROPOSED (P) | |
| — SD — | — SD — | STORM DRAIN LINE |
| — S — | — S — | SANITARY SEWER LINE |
| — W — | | WATER LINE |
| — G — | | GAS LINE |
| — OH/E — | | OVERHEAD ELECTRIC LINE |
| — UG/E — | | UNDERGROUND ELECTRIC LINE |
| — UG/T — | | UNDERGROUND TELEPHONE LINE |
| — UG/C — | | UNDERGROUND CABLE TV |
| — UG/FO — | | UNDERGROUND FIBER OPTIC |
| — UG/TF — | | UNDERGROUND TRAFFIC SIGNAL |
| — x — x — | | WOODEN FENCE |
| — x — x — | | CHAINLINK FENCE |
| — o — o — | | WROUGHT IRON FENCE |
| — / — / — | | CONCRETE BARRICADE FENCE |
| — / — / — | | STRUCTURE |
| — / — / — | | ASPHALT |
| — / — / — | | CONCRETE |
| — / — / — | | BRICK |
| — / — / — | | GRAVEL |
| — / — / — | | DECKING |
| — / — / — | | STAIRS |
| ○ | ○ | SANITARY SEWER MANHOLE |
| △ | | SEWER SERVICE CONNECTION |
| △ | | WATER KEY BOX/VALVE MARKER |
| △ | | WATER VALVE BOX |
| △ | | FIRE HYDRANT |
| ● C.O. | | SANITARY SEWER CLEANOUT |
| ○ | | SANITARY SEWER MANHOLE |
| ○ | | STORM DRAIN MANHOLE |
| □ | | CATCH BASIN MANHOLE |
| □ | | CATCH BASIN |
| □ G.M. | | GAS METER |
| ○ | | LUMINAIRE |
| □ | | TYPE 1 JUNCTION BOX |
| □ U.E. | | UNDERGROUND ELEC. PEDESTAL |
| □ U.T. | | UNDERGROUND TELE. PEDESTAL |
| □ U.C. | | UNDERGROUND TV CABLE PEDESTAL |
| □ FD | | UNDERGROUND FIBER OPTIC VAULT |
| ○ O-EM | | ELECTRIC METER |
| □ M.B. | | MAIL BOX |
| ○ | | TREE CONIFER/ DECIDUOUS |
| ○ | | BUSH |
| ○ | | ROCK / BOULDER (ROUGHLY TO SCALE) |
| □ | | STREET SIGN (1S, 2S) |
| ○ | | BOLLARD, POST, PIPE, MARKER |
| ○ | | TEST BORING |
| — — — | | PROPERTY LINE |
| — — — | | CENTERLINE |
| — — — | | EASEMENT LINE |

PROFILE LEGEND

| SYMBOL | | DESCRIPTION |
|--------------|--------------|---|
| EXISTING (E) | PROPOSED (P) | |
| ⊙ | | UNDERGROUND NATURAL GAS CROSSING |
| ⊙ | | UNDERGROUND ELECTRIC CROSSING |
| ⊙ | | UNDERGROUND TELEPHONE CROSSING |
| ⊙ | | UNDERGROUND CABLE TV CROSSING |
| ⊙ | | UNDERGROUND FIBER OPTIC CROSSING |
| ⊙ | | UNDERGROUND TRAFFIC SIGNAL CROSSING |
| — — — | | CENTER LINE (R.O.W.) |
| — — — | | WEST OR NORTH PROPERTY LINE |
| — — — | | EAST OR SOUTH PROPERTY LINE |
| — — — | | GRADE OF PAVEMENT AT G |
| — — — | | EXISTING GROUND OVER PIPE |
| — — — | | PIPE |
| — — — | | PIPE |
| ▲ | | STORM DRAIN MANHOLE |
| ▲ | | CATCH BASIN OR CATCH BASIN MANHOLE (PAVING PROFILE) |
| ▲ | | WATER LEVEL |
| ▲ | | STORM DRAIN MANHOLE & STORM DRAIN PIPE |
| — — — | | SOILS CLASSIFICATION & % PASSING 200 |
| — — — | | INSULATION |
| — — — | | CONCRETE |
| — — — | | GRAVEL |
| — — — | | COMPACTED SOIL |
| — — — | | NATURAL SOIL |
| — — — | | METAL GRATING |

SOIL ABBREVIATIONS

GW - WELL GRADED GRAVEL
 GP - POORLY GRADED GRAVEL
 GM - SILTY GRAVEL
 GC - CLAYEY GRAVEL
 SW - WELL GRADED SAND
 SP - POORLY GRADED SAND
 SM - SILTY SAND
 SC - CLAYEY SAND
 ML - INORGANIC SILT
 CL - INORGANIC CLAY
 OL - ORGANIC SILT
 MH - INORGANIC SILT
 CH - INORGANIC CLAY
 OH - ORGANIC CLAY
 PT - PEAT

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE-UTILITIES-PARKS (MASS), THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL, AND THE SPECIAL PROVISIONS.
- MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES. A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18) INCHES SHALL BE MAINTAINED AT ALL WATER/SEWER CROSSINGS.
- MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4-INCH THICK INSULATION.
- ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20 PER FOUR (4) INCH THICK INSULATION.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION.
- IN CASE OF CONFLICT BETWEEN STATIONING LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS RELATIVE TO THE CENTERLINE OR PROPERTY LINE, THE DIMENSIONED LOCATIONS SHALL GOVERN, OR AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.

ACAD FILE: *.DWG PLOT DATE: 00/00/00 PLOT SCALE: 1"=50'

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORZ SCALE: 1" = 50' VERT SCALE: 1" = 5' | |
|----------------|----------|---|------------------|---|------------|--|------|
| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE |
| BASE | CRW | MEQ | TELEPHONE | CRW | MEQ | | |
| TOPOGRAPHY | CRW | MEQ | ELECTRIC | CRW | MEQ | | |
| PROFILE | CRW | MEQ | CABLE TV | CRW | MEQ | | |
| SANITARY SEWER | CRW | MEQ | TRAFFIC SIGNAL | --- | --- | | |
| STORM SEWER | CRW | MEQ | DESIGN | JLS | MEQ | | |
| WATER | CRW | MEQ | QUANTITIES | JLS | TRT | | |
| GAS | CRW | MEQ | MUN. FINAL CHECK | --- | --- | | |
| PLAN CHECK | | | | REVISIONS | | | |

| RECORD DRAWING | | Note: To be filled out on original drawings upon project completion. | |
|--|--|---|--|
| 1. DATA PROVIDED BY: _____ | 3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed. | REUSE OF DOCUMENTS | |
| Drawings are a true and accurate representation of the project as constructed. | | THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU. | |
| CONTRACTOR: _____ | DATA TRANSFER CHECKED BY: _____ | AWWU ENGINEERING • PLANNING FIELD SERVICE • INSPECTION 3000 Arctic Boulevard Anchorage, Alaska 99503 Phone (907) 564-2774 Fax (907) 562-0824 | |
| BY: _____ TITLE: _____ | COMPANY: _____ | CONSULTANT | |
| DATE: _____ | DATE: _____ | SEAL | |
| 2. DATA TRANSFERRED BY: _____ | | MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY M STREET AND 5TH AVENUE SEWER REHABILITATION - PHASE II | |
| COMPANY: _____ | | NOTES, LEGEND, & ABBREVIATIONS | |
| DATE: _____ | | HORZ SCALE: N/A VERT SCALE: N/A DATE: 2023 GRID: SW 1229 PROJ. ID.: WM00169 | |

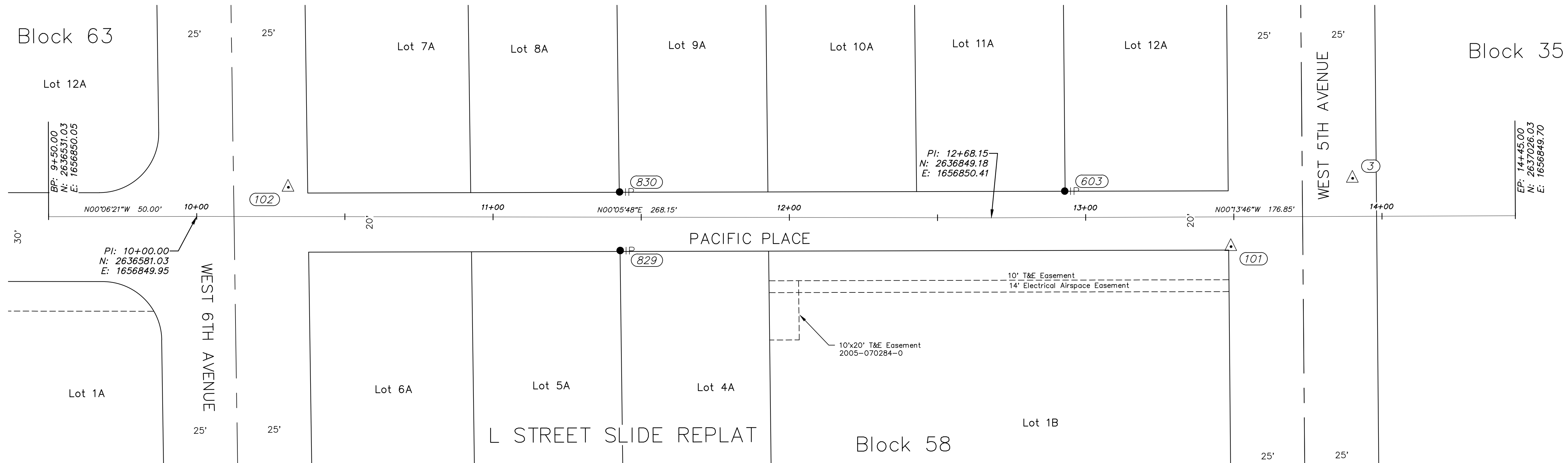
| | | | |
|--------------------|--|---------------------------|--|
| | | | |
| <p>DATE: _____</p> | | <p>DATE: 2023</p> | |
| <p>DATE: _____</p> | | <p>GRID: SW 1229</p> | |
| <p>DATE: _____</p> | | <p>PROJ. ID.: WM00169</p> | |
| <p>DATE: _____</p> | | <p>SHEET 2 of 7</p> | |

PLOT DATE: 3/7/2023 7:25 AM

PLOT SCALE:

ACAD FILE: J:\JobsData\1034018 Pacific Place And M Street Sewer\00 CADD 2019\01 Working Set\02 Survey\03 Survey Control\Pacific Place SCS SPZ4.dwg

AWWU PLAN SET NO. 11279



SURVEY NOTES:

- The field survey was performed by CRW Engineering Group, LLC from July 6, 2018 to July 13, 2020. Field survey information for this project is located in MOA Field Books 3631, pages 62 through 76, and 3774, pages 1 through 43, and CRW Engineering Group, LLC Field Books 180 page 70, 211 pages 6 through 55, 212 pages 1 through 41, and 213 pages 1 through 22.
- Underground street light lines exist within the project area.
- A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.
- All disturbed property corners shall be replaced by the contractor in accordance with Special Provision 65.02, Article 2.1 Project Control.
- The Basis of Bearings is NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4 grid from GPS observations.
- Coordinates are NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4, expressed in U.S. Survey Feet. The Basis of Coordinates is Point Number 1 per N.G.S. OPUS solutions.
- To convert Point Number 1 coordinates to ADOT&PF Bowl 2000 coordinates, scale using 1.0001089930 and translate using -2,296,868.6888 N, -1,312,517.4899 E.
- Elevations are based on the MOA Vertical Datum 1972 NGS adjustment. Bench Marks are CB 4C with Elev=90.88, see MOA Benchmark Book page D-56, and B-74 with Elev=111.20, see MOA Benchmark Book page D-4.
- T.B.M.s were not set for this project. Elevations on control points 3, 101, and 102 were established by differential level. Elevations from these points should be verified before use.

| Horizontal and Vertical Control | | | | | | |
|---------------------------------|----------|----------|------------|------------|-----------|---|
| Point | Station | Offset | Northing | Easting | Elevation | Description |
| 1 | N/A | N/A | 2634402.32 | 1657430.09 | 90.88 | Brass Cap Top Retaining Wall (GAAB Benchmark CB-4C) |
| 102 | 10+30.90 | 9.90 LT | 2636611.95 | 1656840.11 | 40.95 | Set 2" Aluminum Cap on 5/8" Rebar 0.3' below grade |
| 830 | 11+42.69 | 8.52 LT | 2636723.73 | 1656841.67 | N/A | Found 5/8" Rebar with Yellow Plastic Cap |
| 829 | 11+42.93 | 11.26 RT | 2636723.94 | 1656861.46 | N/A | Found 5/8" Rebar |
| 603 | 12+92.96 | 8.92 LT | 2636873.96 | 1656841.39 | N/A | Found 5/8" Rebar with Yellow Plastic Cap |
| 101 | 13+49.02 | 10.07 RT | 2636930.09 | 1656860.15 | 44.71 | Set 2" Aluminum Cap on 5/8" Rebar 0.2' below grade |
| 3 | 13+90.14 | 12.84 LT | 2636971.12 | 1656837.07 | 43.06 | Set 1-1/8" Copper Survey Marker flush in concrete |

LEGEND

- IP Existing Rebar
- △ Control Set by CRW
- (500) Control Point Number



VERIFY SCALE

| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION |
|----------------|----------|------------|------------------|----------|------------|-----|------|-------------|
| BASE | --- | --- | TELEPHONE | --- | --- | | | |
| TOPOGRAPHY | --- | --- | ELECTRIC | --- | --- | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | |
| SANITARY SEWER | --- | --- | TRAFFIC SIGNAL | --- | --- | | | |
| STORM SEWER | --- | --- | DESIGN | --- | --- | | | |
| WATER | --- | --- | QUANTITIES | --- | --- | | | |
| GAS | --- | --- | MUN. FINAL CHECK | --- | --- | | | |

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.



IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

FULL SIZE SCALE
HORZ SCALE: N/A
VERT SCALE: N/A

RECORD DRAWING

Note: To be filled out on original drawings upon project completion.

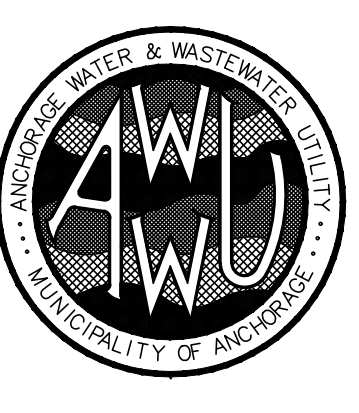
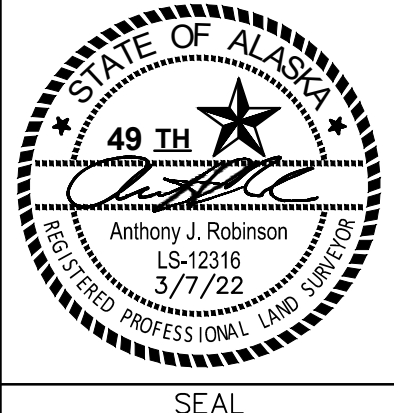
1. DATA PROVIDED BY: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

REUSE OF DOCUMENTS

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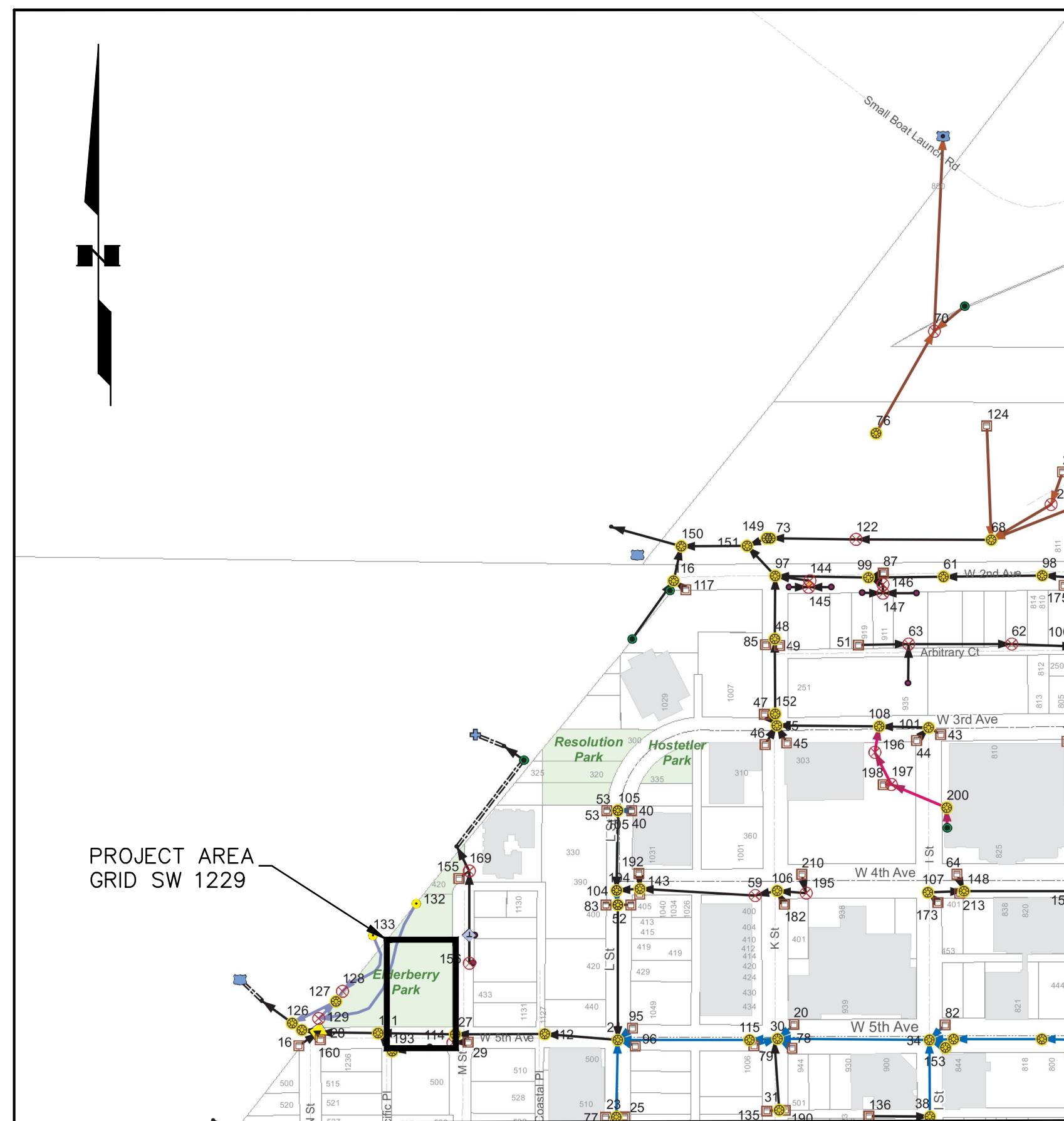


MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

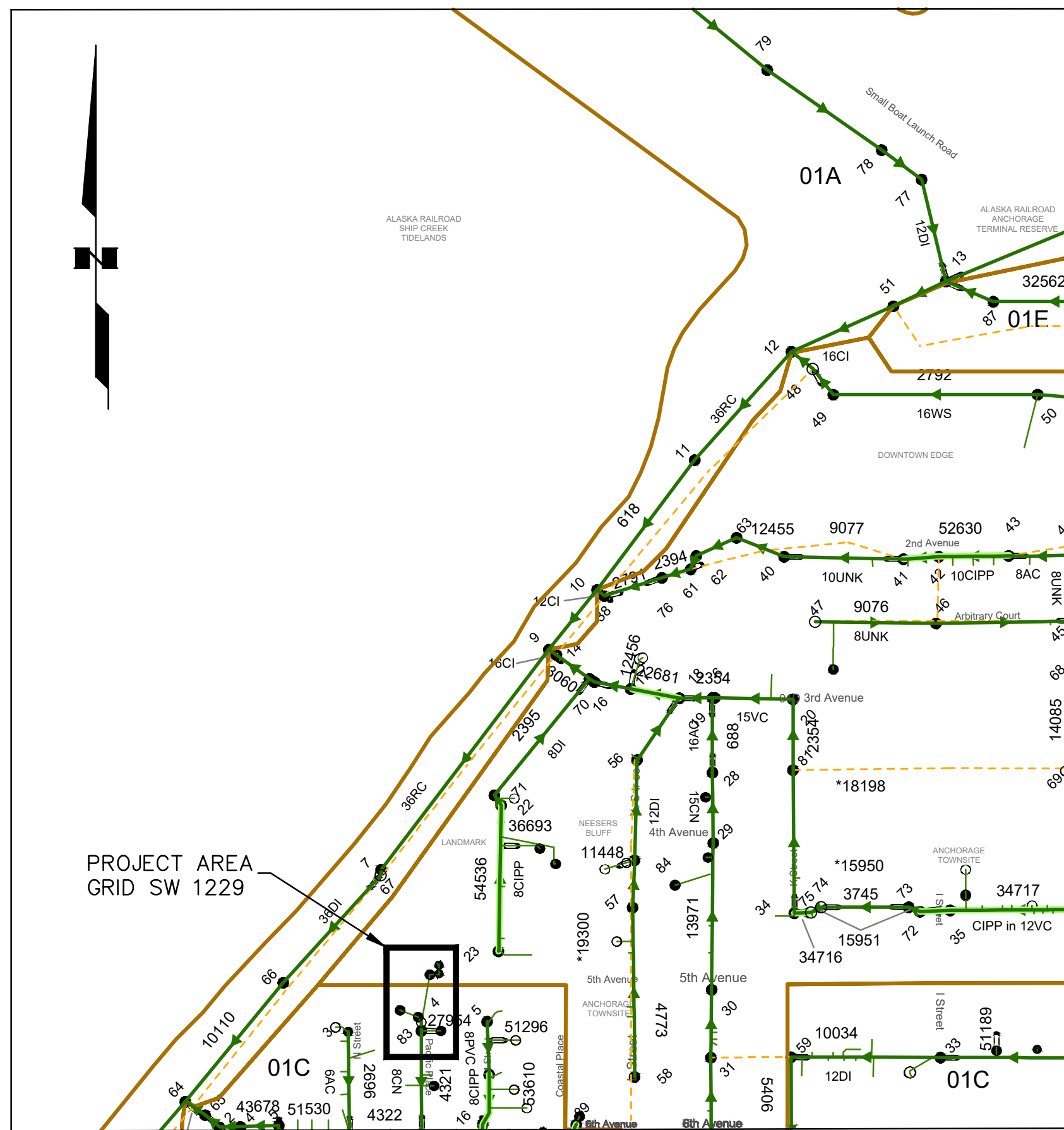
M STREET AND 5TH AVENUE
SEWER IMPROVEMENTS

SURVEY CONTROL

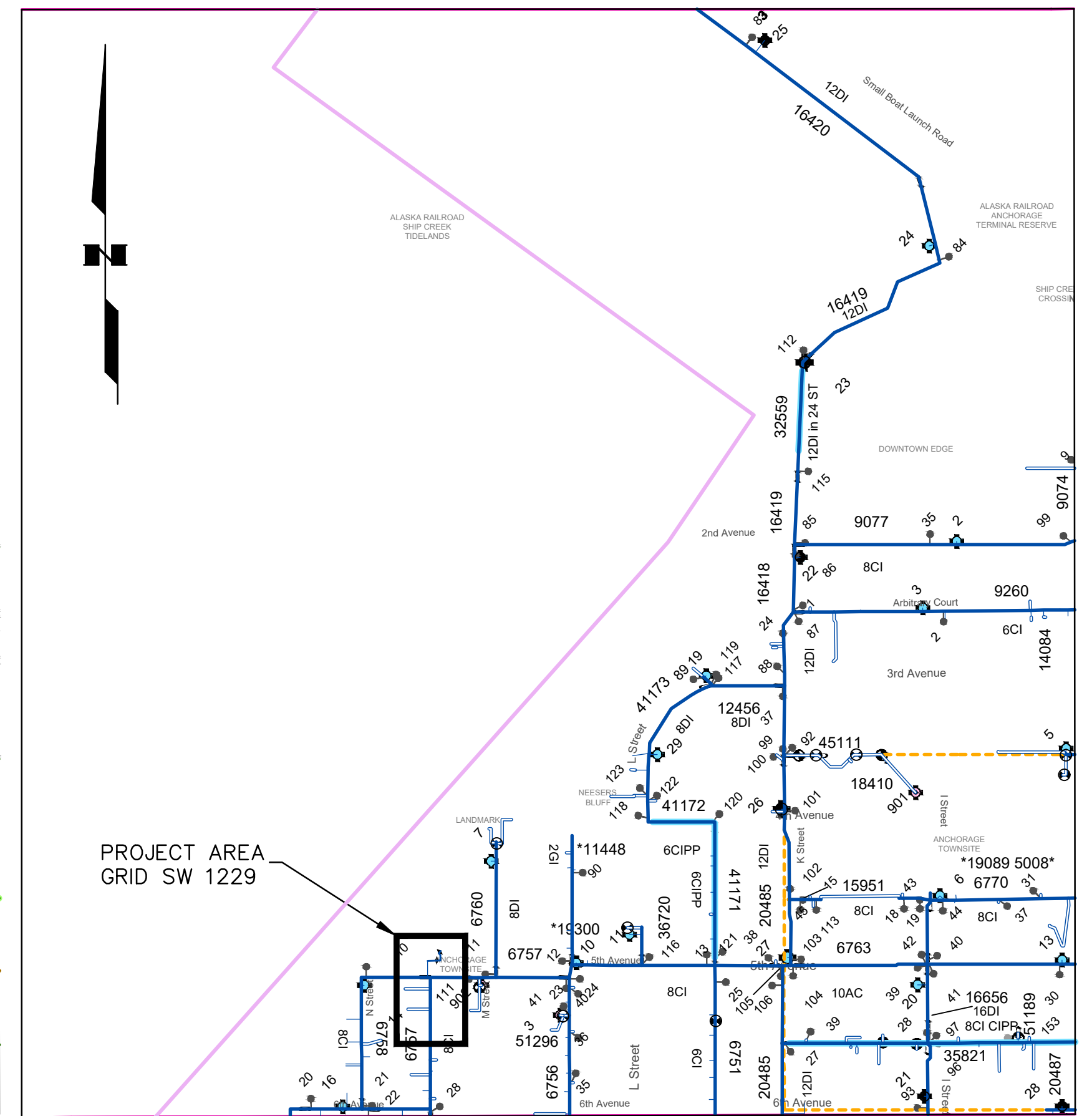
| | | | |
|--------------------|---------------------|--------------|--------------|
| HORZ SCALE: 1"=20' | DATE: 2023 | GRID: SW1229 | SHEET 3 of 7 |
| VERT SCALE: 1"=5' | PROJ. ID.: WM.00169 | | |



STORM KEY MAP
N.T.S.



SEWER KEY MAP
N.T.S.



WATER KEY MAP
N.T.S.

SEWER NOTES

- EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF SANITARY SEWER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SANITARY SEWER SERVICE TO THE EXISTING CUSTOMERS IF DEEMED NECESSARY BY THE ENGINEER (TEMPORARY SEWER SERVICE NEEDS AWWU REVIEW AND APPROVAL PRIOR TO CONSTRUCTION).
- ALL MANHOLES SHALL HAVE A MINIMUM OF ONE-SIX (6") INCH GRADE RING. MAXIMUM GRADE RING ADJUSTMENT SHALL NOT EXCEED EIGHTEEN (18") INCHES.
- ALL SANITARY SEWER MAINS SHALL BE PVC PIPE C900 DR-18, UNLESS OTHERWISE NOTED.
- SANITARY SEWER SERVICES SHALL BE 6 INCHES UNLESS NOTED ON PLANS WITH A MINIMUM SLOPE FOR 6-INCH SERVICES TO BE 1% AND FOR 4-INCH SERVICES TO BE 2%.
- SANITARY SEWER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY WATER MAIN, WATER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE.
- ALL BEDDING SHALL BE BEDDING (CLASS E) FOR PVC PIPE C900 DR-18.
- ROMAC MACRO HP OR ALPHA FITTINGS WILL NOT BE ALLOWED. SEWER SERVICE PIPE CONNECTIONS REQUIRED OUTSIDE OF BELL/SPIGOT WILL BE DONE WITH 8" WIDE S.S. REPAIR BANDS.
- SEWER MAIN, SERVICE TRENCHES AND BEDDING SHALL BE COMPACTED TO MIN. OF 95% OF MAXIMUM DENSITY.
- THE CONTRACTOR SHALL RELOCATE ANY SEWER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD MEASURED DISTANCES PRIOR TO FINAL ACCEPTANCE BY AWWU.
- LOCATIONS OF EXISTING SEWER SERVICES ARE BASED ON AS-BUILTS AND SERVICE CONNECT RECORDS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO (2) DAYS (EXCLUDING NON-WORKING DAYS) PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
- THIS PROJECT IS A SEWER R&R UPGRADE AND EXISTING SERVICES SHALL BE EITHER DISCONNECTED FROM THE EXISTING 8-INCH CONCRETE SEWER MAIN AND RECONNECTED TO THE NEW 8-INCH PVC SEWER MAIN, OR DISCONNECTED AND ABANDONED IN PLACE. NEW SERVICES SHALL BE FURNISHED AND INSTALLED FROM THE PROPERTY OWNER'S SERVICE AT THE PROPERTY LINE TO THE NEW 8-INCH PVC SEWER MAIN. MANHOLE INVERTS SHALL BE COMPLETED WITH AWWU APPROVAL PRIOR TO LIVE SEWAGE FLOWING THROUGH. THE MAIN LINE SHALL BE CONSTRUCTED CLEAN. AN EXFILTRATION TEST (USING AIR) WILL NOT BE REQUIRED AS STATED IN THE SPECIAL PROVISIONS.

CALL BEFORE YOU DIG

The Contractor shall notify all area utility companies prior to commencement of excavation. The following is a partial list:
 LOCATE CALL CENTER of ALASKA 278-3121
 (includes ATU, AWWU, CEA, ENG, Butler Aviation/Tesoros, Prime Cable, MLP, Traffic Signals, MOA Storm/Streets)
 STATE STORM/STREET LIGHTS 333-2411
 MILITARY PETROLEUM LINES



Call before you dig.

PLOT DATE: 00/00/00

PLOT SCALE: 1"=50'

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----------|---|------------------|---|------------|-----------------|------|
| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE |
| BASE | CRW | MEQ | TELEPHONE | CRW | MEQ | | |
| TOPOGRAPHY | CRW | MEQ | ELECTRIC | CRW | MEQ | | |
| PROFILE | CRW | MEQ | CABLE TV | CRW | MEQ | | |
| SANITARY SEWER | CRW | MEQ | TRAFFIC SIGNAL | --- | --- | | |
| STORM SEWER | CRW | MEQ | DESIGN | JLS | MEQ | | |
| WATER | CRW | MEQ | QUANTITIES | JLS | TRT | | |
| GAS | CRW | MEQ | MUN. FINAL CHECK | --- | --- | | |
| PLAN CHECK | | | | REVISIONS | | | |

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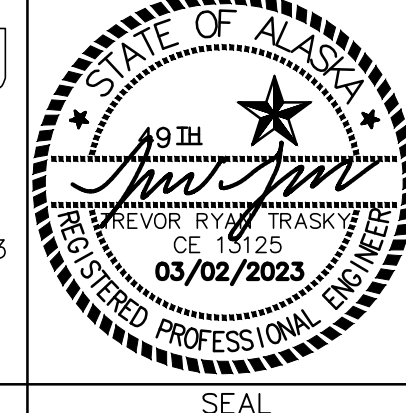
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 Anchorage, Alaska 99503
 Phone (907) 564-2774
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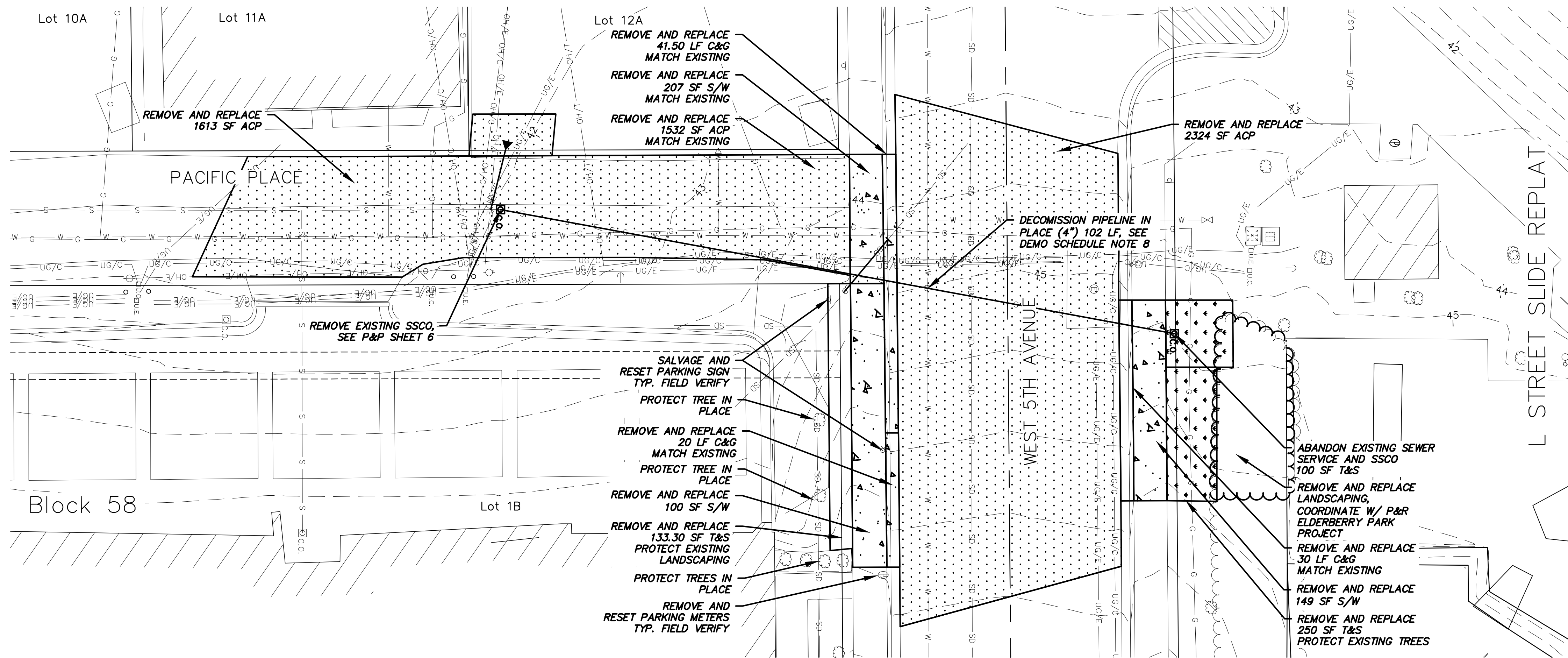
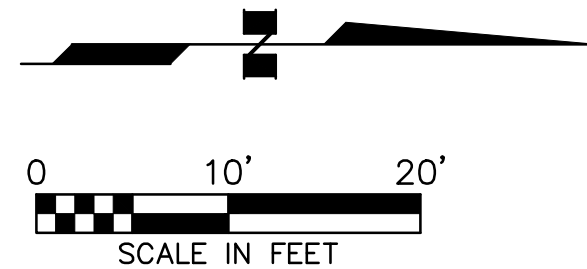
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

M STREET AND 5TH AVENUE
 SEWER IMPROVEMENTS - PHASE II

KEY MAP AND NOTES

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 2023
 GRID: SW 1229
 PROJ. ID.: WM.00169

SHEET 4 of 7



DEMOLITION/PROPOSED SCHEDULE

| | MATERIAL | QUANTITY | NOTES |
|---|----------------------------------|------------|---|
| 1 | AC PAVEMENT | 438 SY | REMOVE AND REPLACE EXISTING AC PAVEMENT. SEE TYPICAL SECTION ON SHEET 7. |
| 2 | CLEARING AND GRUBBING | 46 SY | CLEAR AND GRUB EXISTING, REPLACE WITH TOPSOIL AND SEEDING, AS APPROVED BY THE ENGINEER. |
| 3 | TOPSOIL AND SEEDING | 0.49 MSF | REMOVE AND REPLACE. |
| 4 | LANDSCAPING | 1 LS | REMOVE AND REPLACE TO MATCH EXISTING, AS APPROVED BY THE ENGINEER. |
| 6 | CURB AND GUTTER | 92 LF | REMOVE AND REPLACE W/ LIKE SIZE, TYPE TO INCLUDE RED PAINTED FACE. MATCH EXISTING. |
| 7 | CONCRETE (4"/6" P.C.C. SIDEWALK) | 51 SY | REMOVE AND REPLACE TO MATCH EXISTING CONCRETE STRUCTURAL SECTION. DISPOSAL OF PCC SHALL BE PER 20.07. NEW PCC SHALL BE PER 30.03. WHERE NEW P.C.C. SIDEWALK CROSSES DRIVEWAYS, USE 6" P.C.C. AND CONSTRUCT IN ACCORDANCE WITH MASS STANDARD DETAIL 30-6 OR AS DIRECTED BY THE ENGINEER. |
| 8 | FLOWABLE FILL GROUT | 0.35 CU YD | DECOMMISSION EXISTING SEWER SYSTEM PRIOR TO THE INSTALLATION OF THE PROPOSED SEWER MAIN BETWEEN STA. 10+84.00 TO STA. 11+08.00. |

TEMPORARY CONSTRUCTION PERMIT SCHEDULE

| LEGAL DESCRIPTION | PHYSICAL ADDRESS | AREA (SF) | NOTES |
|--------------------------------|------------------|-----------|---|
| L STREET SLIDE PLAT BLK 35 ALL | | 205 | INSTALL NEW SEWER EXTENDED CONNECTION, ABANDON EXISTING SEWER SERVICE AND SSCO. |
| | | | |
| | | | |

DEMOLITION NOTES

- CURB & GUTTER SHALL BE SAWCUT AT THE NEAREST JOINT AT OR BEYOND REMOVAL LIMITS OR AS DIRECTED BY THE ENGINEER. SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE BID ITEM.
- ALL STOP SIGNS AND STREET NAME SIGNS IN THE PROJECT AREA SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION.
- INSTALL MANHOLE RINGS AS NEEDED WITH FINISHED GRADE PER 55.08 ADJUST STORM DRAIN MANHOLE RING TO FINISH GRADE. ALTHOUGH NO SEPARATE PAYMENT SHALL BE MADE AND SHALL BE INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATION OF EXISTING PRIVATE IMPROVEMENTS WITH RIGHT OF WAY ENFORCEMENT (907-343-8420), THE ENGINEER AND PROPERTY OWNER PRIOR TO CONSTRUCTION. REMOVAL AND/OR RELOCATION OF EXISTING ITEMS INCLUDING, BUT NOT LIMITED TO PLANTER BEDS, GARDENS, EDGING, FENCING, BOULDERS, RETAINING WALLS, OR OTHER LANDSCAPING FEATURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE. UNLESS OTHERWISE SPECIFIED, RELOCATING EXISTING FEATURES WITHIN R.O.W. ONTO PRIVATE PROPERTY SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL MINIMIZE IMPACTS TO ON-PROPERTY IMPROVEMENTS OUTSIDE TRENCH SECTION (I.E. PLACING SEPARATION FABRIC BETWEEN EXISTING GRASS AND MATERIAL STOCKPILE).
- CONTRACTOR SHALL COORDINATE REPLACEMENT OF TREES, SHRUBS, OR ANY OTHER LANDSCAPING WITH PROPERTY OWNER AND ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE LANDSCAPING BID ITEM.
- ALL STRIPING WITHIN THE DEMOLITION LIMITS SHALL BE REPLACED AND IS INCIDENTAL TO THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.
- EXISTING STORM DRAIN UTILITY IS TO REMAIN. ALL WORK TO MAINTAIN, REMOVE/REPLACE EXISTING STORM DRAIN REQUIRED TO INSTALL NEW WATER AND/OR SEWER ITEMS IS INCIDENTAL TO THE CONTRACT SHALL COMPLY WITH DIVISION 55, SECTION 55.02 OF MASS. NO SEPARATE PAYMENT SHALL BE MADE.
- REMOVAL AND DISPOSAL OF ALL WATER AND/OR SEWER ITEMS NECESSARY TO INSTALL THE NEW WATER AND/OR SEWER ITEMS/SYSTEM SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

ACAD FILE: *.DWG PLOT DATE: 00/00/00 PLOT SCALE: 1"=50'

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORZ SCALE: 1" = 50' VERT SCALE: 1" = 5' | |
|----------------|----------|---|------------------|---|------------|--|------|
| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE |
| BASE | CRW | MEQ | TELEPHONE | CRW | MEQ | | |
| TOPOGRAPHY | CRW | MEQ | ELECTRIC | CRW | MEQ | | |
| PROFILE | CRW | MEQ | CABLE TV | CRW | MEQ | | |
| SANITARY SEWER | CRW | MEQ | TRAFFIC SIGNAL | --- | --- | | |
| STORM SEWER | CRW | MEQ | DESIGN | JLS | MEQ | | |
| WATER | CRW | MEQ | QUANTITIES | JLS | TRT | | |
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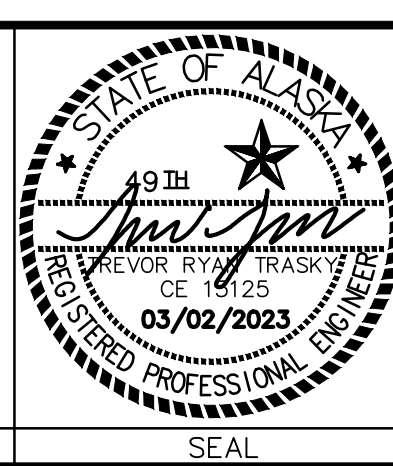
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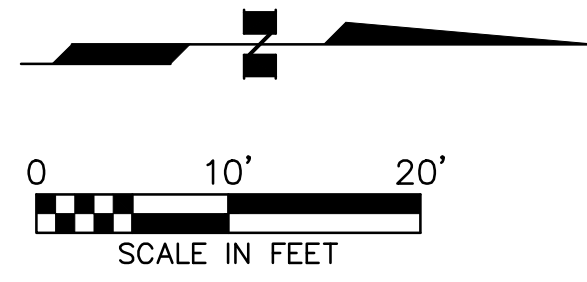
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M STREET AND 5TH AVENUE
 SEWER IMPROVEMENTS - PHASE II

DEMOLITION & REPLACEMENT

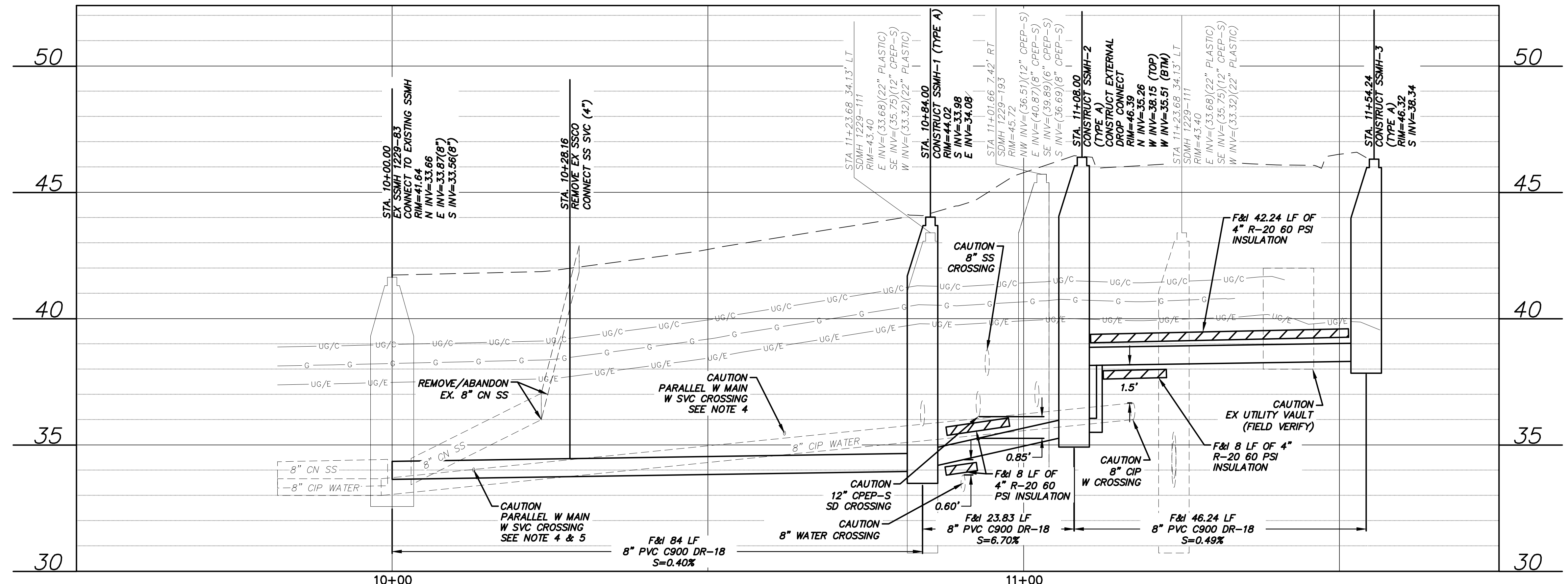
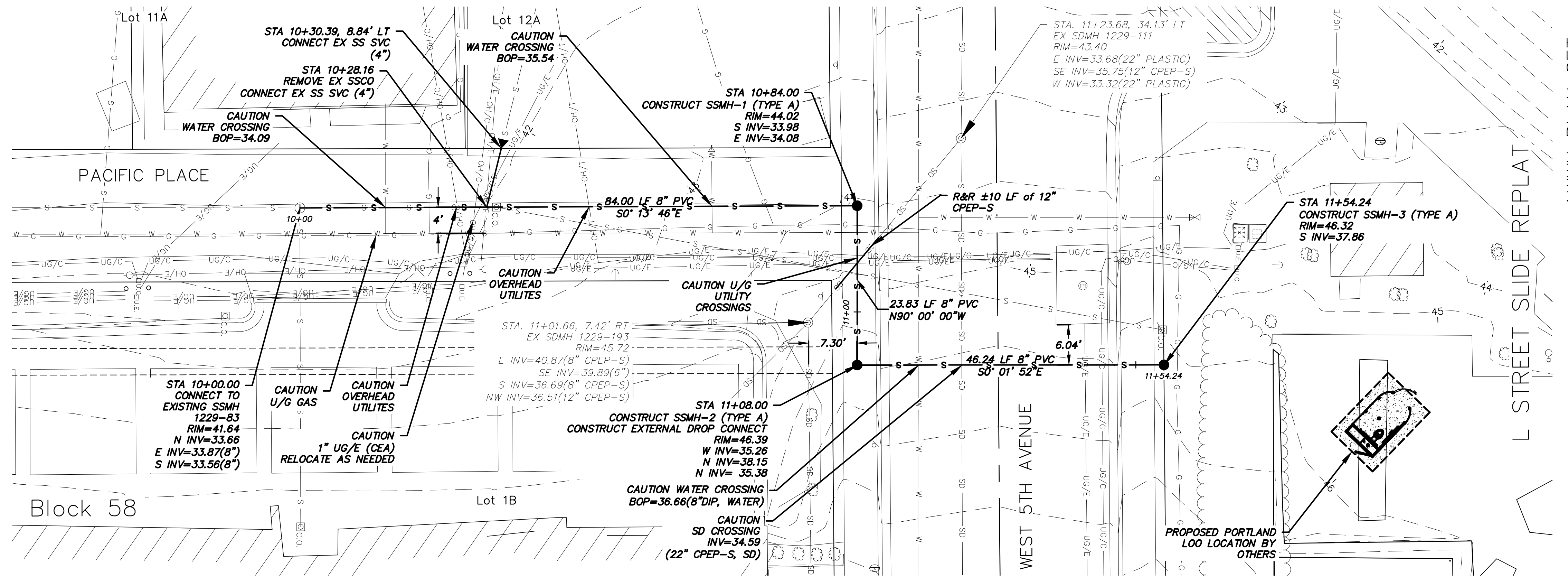
HORIZ SCALE: 1:10
 VERT SCALE: 1:5
 DATE: 2023
 GRID: SW 1229
 PROJ. ID.: WM.00169

SHEET 5 of 7



SHEET NOTES

- EXISTING UTILITY LINES AND STRUCTURES ARE LOCATED ALONG THE NEW SEWER ALIGNMENT. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND SHALL SHORE, MOVE AND REPLACE OR PROTECT AS NECESSARY. ALL RELATED COST SHALL BE INCIDENTAL TO THE TRENCH WORK.
- CONTRACTOR SHALL POT HOLE BY USE OF VACUUM EXCAVATION AND TAKE ELEVATION SHOTS ON ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN BETWEEN STA. 10+84.00 TO STA. 11+08.00 PRIOR TO BEGINNING EXCAVATION FOR THIS SEGMENT OF SEWER MAIN.
- UG/E CROSSINGS AT STA. 10+28.00, 10+92.00, 11+42.00 REQUIRE SAFETY WATCH IF EXCAVATION IS WITHIN 2' OF UNDERGROUND CABLE.
- MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MANS OR SERVICES) OR SANITARY SEWER (MANS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4-INCH THICK INSULATION.
- RAISE OR LOWER WATER SERVICE LINE (1") TO PROVIDE 18" VERTICAL SEPARATION WITH NEW SEWER MAIN.
- ALL SEWER MAIN JOINTS BETWEEN STA. 10+00.00 AND STA. 10+84.00 SHALL BE SHRINK WRAPPED WITH RAYCHEM WPC65M 8625-17/UNI OR APPROVED EQUAL AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- A MINIMUM OF 9' HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN ALL WATER AND SANITARY SEWER/STORM SEWER JOINTS. ANY JOINTS BEFORE OR AFTER WATER MAIN CROSSINGS WITH LESS THAN 9' OF HORIZONTAL SEPARATION SHALL BE SHRINK WRAPPED RAYCHEM WPC65M 8625-17/UNI OR APPROVED EQUAL AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.



ACAD FILE: *.DWG PLOT DATE: 00/00/00 PLOT SCALE: 1" = 50'

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CONSULTANT

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1911
MAY 19 2023
REGISTERED PROFESSIONAL ENGINEER

SEAL

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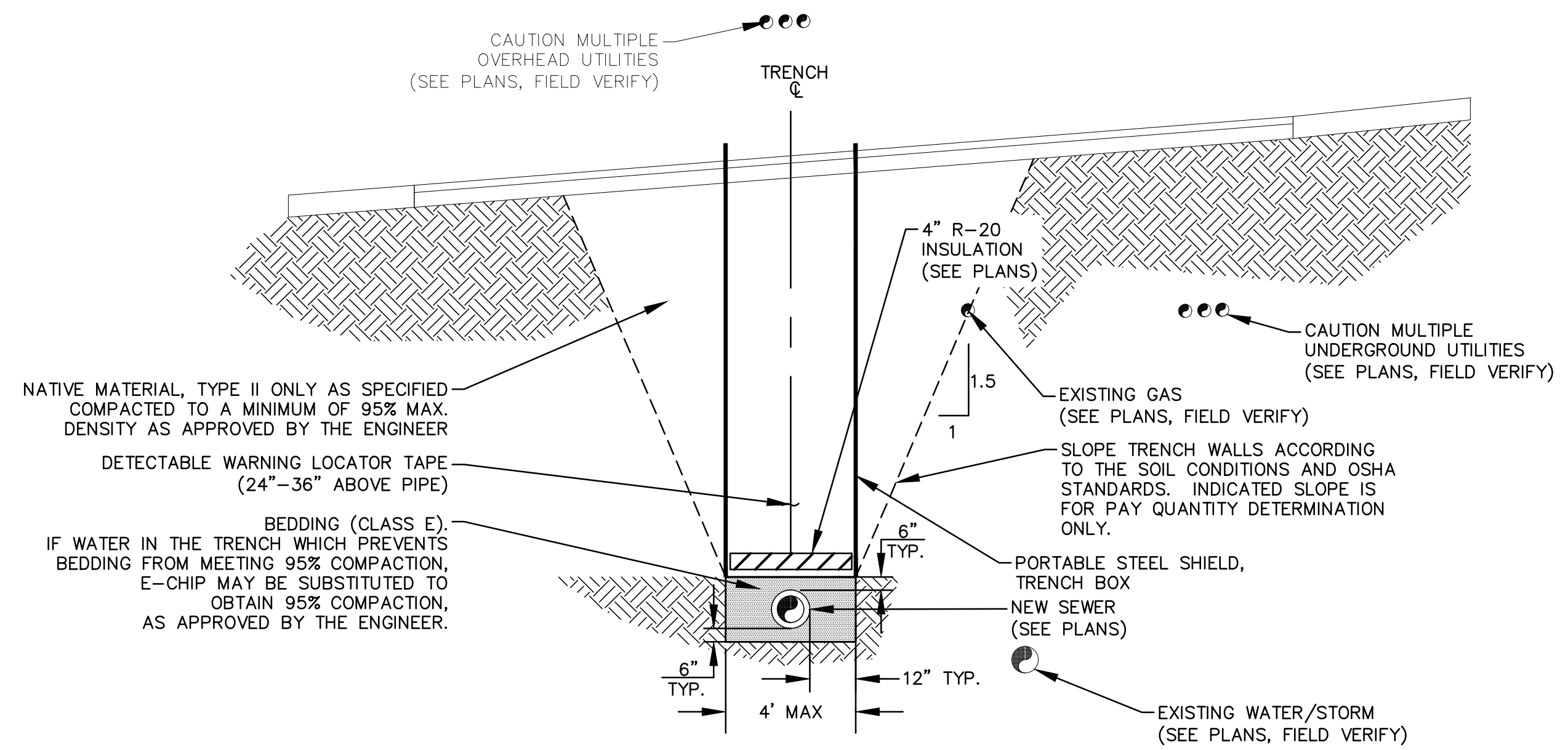
**WATER AND SEWER
PLAN & PROFILE**

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 5'
DATE: 2023
GRID: SW 1229
PROJ. ID.: WM-00169

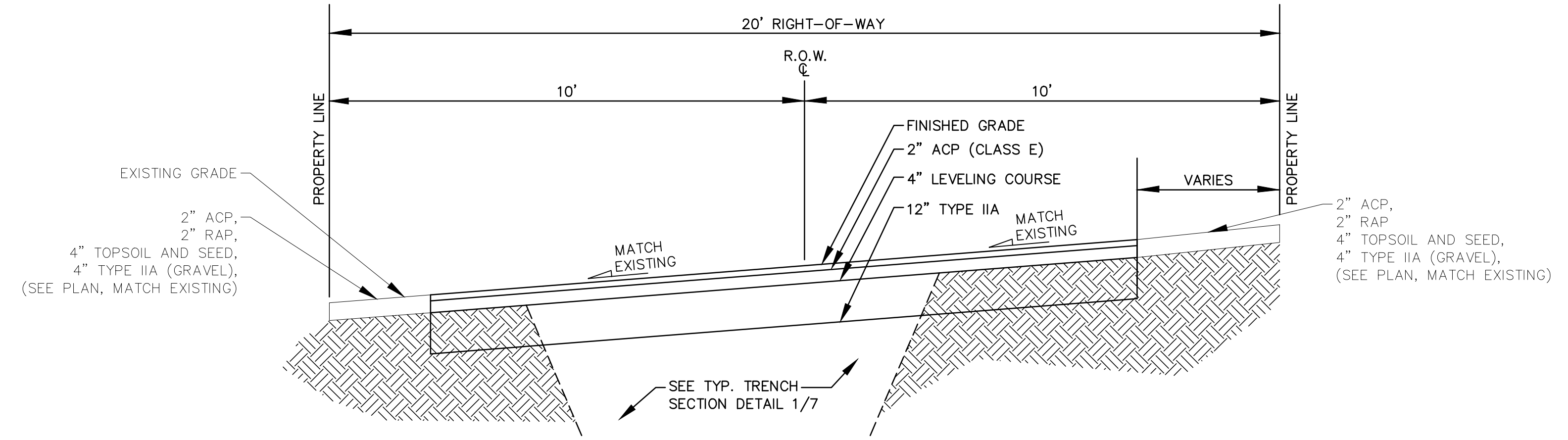
SHEET 6 of 7

ROAD RECONSTRUCTION NOTES

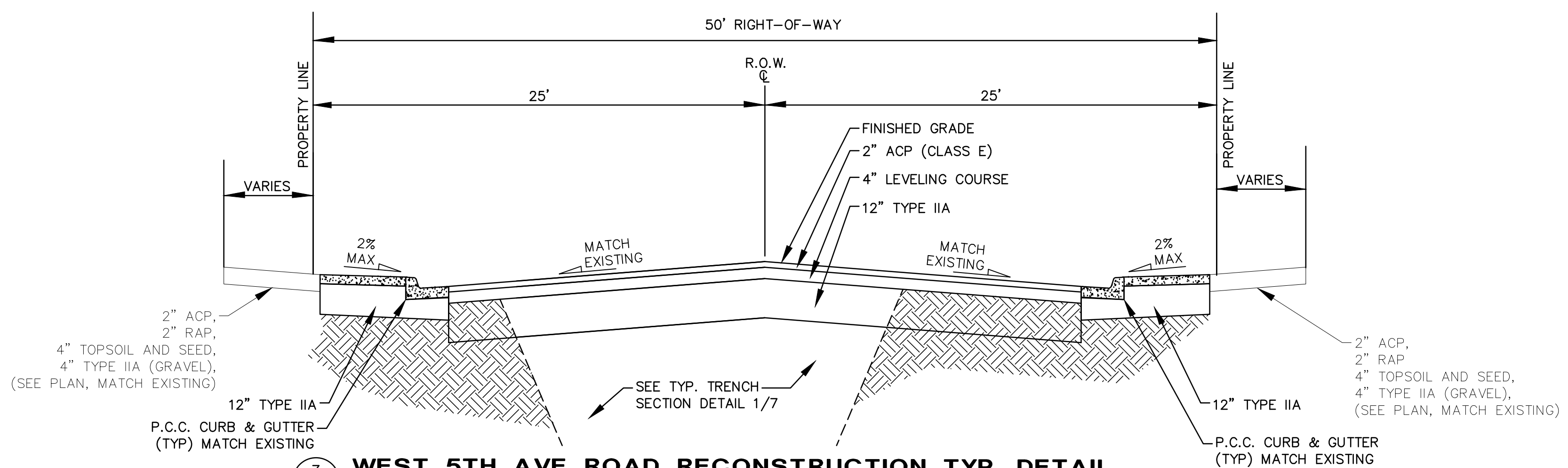
1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS, PROVIDE TRENCH SHORING AS NEEDED TO SUPPORT EXCAVATION AND STAY WITHIN THE ROW AND TEMPORARY CONSTRUCTION PERMITS, INDICATED SLOPE IS FOR PAY LIMITS ONLY AND THE CONTRACTOR SHALL USE A TRENCH BOX TO MINIMIZE THE IMPACTS TO ADJACENT EXISTING AMENITIES.
2. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12-INCHES BEYOND THE DISTURBED, EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12-INCH ADDITIONAL CUT IF THE PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE. CUTS MAY BE MADE WITH A SAW AND SHALL BE SMOOTH AND STRAIGHT.
3. THE CONTRACTOR SHALL TACK COAT ALL EDGES OF AC PAVEMENT CUT PRIOR TO PLACEMENT OF NEW AC PAVEMENT.
4. THE HORIZONTAL AND VERTICAL LOCATION OF BURIED WATER, UNDERGROUND GAS AND ELECTRICAL UTILITY LOCATIONS ARE BASED UPON FIELD LOCATES WITH AN ASSUMED DEPTH OF BURIAL. THE CONTRACTOR SHALL CALL FOR FIELD LOCATES TO VERIFY ALL UTILITY LOCATIONS.
5. CONTRACTOR SHALL RE-GRADE EXISTING SURFACE TO PROVIDE A FIRM UN-YIELDING SURFACE PRIOR TO PLACEMENT OF SPECIFIED MATERIAL PER THE RECONSTRUCTION DETAILS.
6. THE CONTRACTOR SHALL SUBMIT AN EXCAVATION AND DEWATERING PLAN DESCRIBING THE METHODS AND SEQUENCING FOR EXCAVATION AND DEWATERING ACTIVITIES.
7. REMOVE AND PROPERLY DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS.
8. FINISH GRADE OVER PIPE SHALL MATCH EXISTING GRADE (FINISH GRADE IS THE SAME AS EXISTING GRADE), UNLESS OTHERWISE PROPOSED WITHIN THESE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER. FINISH GRADE SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND PROMOTE ADEQUATE DRAINAGE OF THE PROJECT AREA AS APPROVED BY THE ENGINEER.
9. EXISTING UTILITY LINES ARE LOCATED ALONG THE NEW SEWER LINE. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND SHALL SHORE, MOVE AND REPLACE OR PROTECT AS NECESSARY. ALL RELATED COST SHALL BE INCIDENTAL TO THE TRENCH WORK.
10. GENERALLY MATCH EXISTING DRIVEWAY GRADES. PROVIDE UNIFORM SURFACES WITH SMOOTH TRANSITIONS AND POSITIVE DRAINAGE TOWARDS THE STREET, AS DIRECTED BY THE ENGINEER.



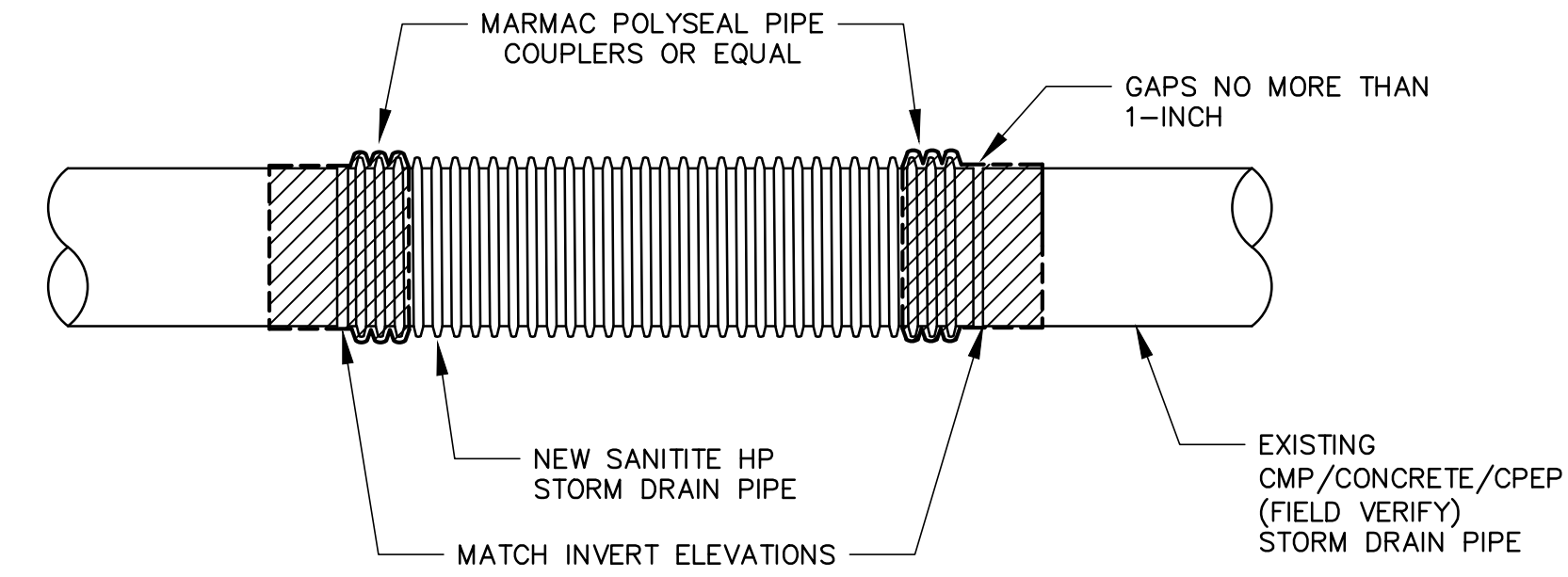
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N.T.S.



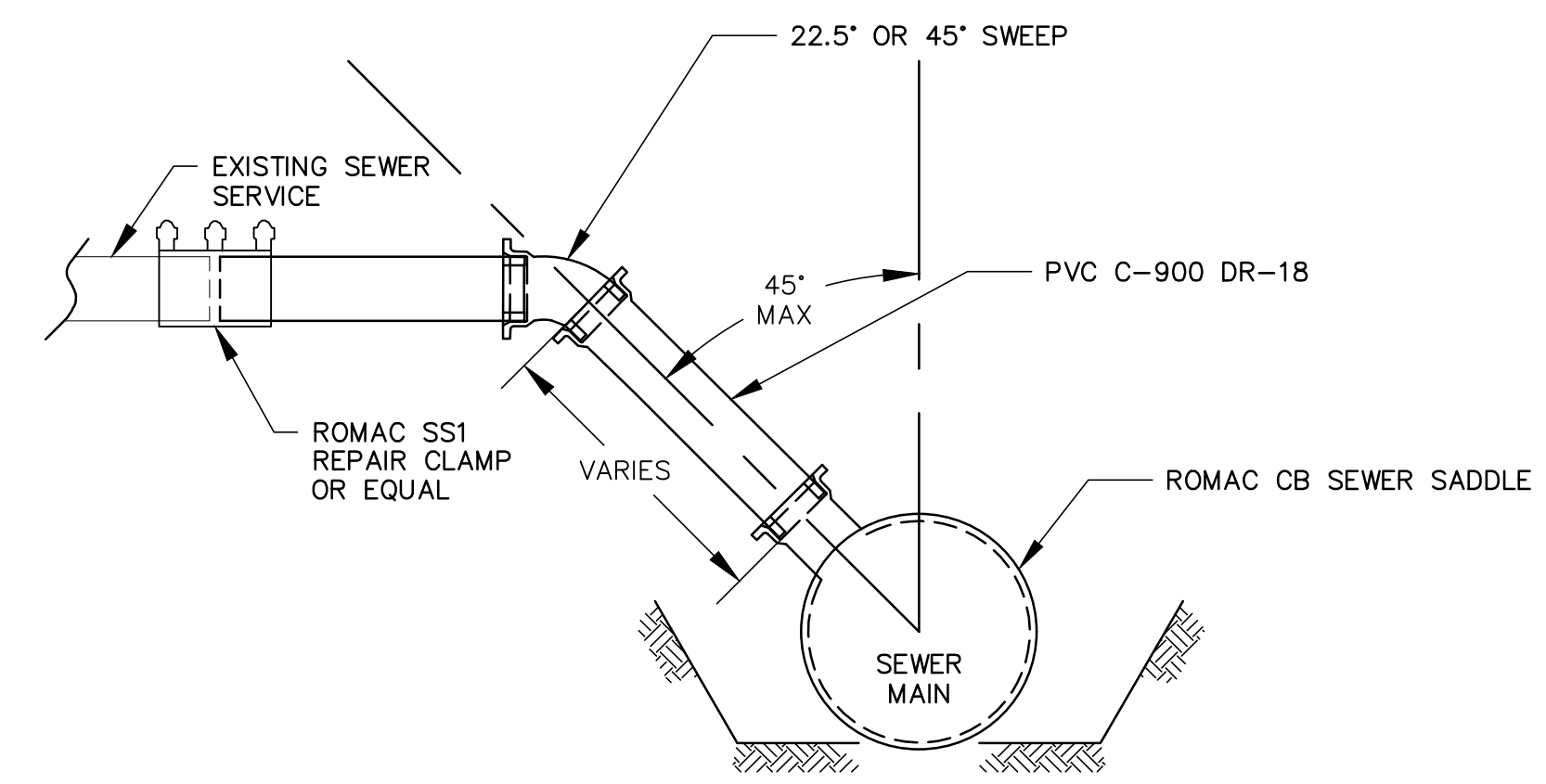
2 PACIFIC PLACE RECONSTRUCTION TYP. DETAIL
N.T.S.



3 WEST 5TH AVE ROAD RECONSTRUCTION TYP. DETAIL
N.T.S.



4 TYPICAL STORM DRAIN REPLACEMENT
N.T.S.



5 TYP. VERTICAL SEWER SERVICE ADJUSTMENT RECONNECT
N.T.S.

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TYPICAL SECTION & DETAILS
HORZ SCALE: N/A
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SHEET 7 of 7