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December 24, 2020

COUNTY OF SAN MATEO

**MIDDLEFIELD ROAD IMPROVEMENT PROJECT
IN THE NORTH FAIR OAKS AREA**

**TOTAL PROJECT APPROXIMATELY 0.5 MILE IN LENGTH
WITH APPURTENANT WORK THERETO
IN SAN MATEO COUNTY**

**COUNTY PROJECT NO. OD420
PROJECT FILE NO. E4931**

ADDENDUM NO. 3

TO ALL PLAN HOLDERS:

The following **Addendum No. 3** to the above referenced project, dated October 16, 2020, shall be included in the project plans and specifications.

1. Page iii of the Table of Contents Section shall be replaced in the Project Specifications:

Replace page iii of the Table of Contents Section with page iii (rev)

2. Pages 4 – 17 of the NC (Notice to Contractor) Section shall be replaced in the Project Specifications:

Replace pages 4 – 17 of the NC Section with pages 4 (rev1) – 17 (rev1)

3. Pages 69 and 76 of the SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace pages 69 and 76 of the SP Section with pages 69 (rev) and 76 (rev)

4. Pages 91 and 92 of the SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace pages 91 and 92 of the SP Section with pages 91 (rev) and 92 (rev)

5. Page 99 of SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace page 99 of the SP Section with page 99 (rev)

6. Page 126 of SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace page 126 of the SP Section with page 126 (rev)

7. Page 170 of SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace page 170 of the SP Section with page 170 (rev)

8. Pages 205 – 206 of the SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace pages 205 – 206 of the SP Section with pages 205 (rev) – 206 (rev)

9. Pages 256, 257 and 259 - 262 of the SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace pages 256, 257 and 259 - 262 of the SP Section with pages 256 (rev), 257 (rev) and 259 (rev) – 262 (rev)

10. Page 323 of SP (Special Provisions) Section shall be replaced in the Project Specifications:

Replace page 323 of the SP Section with page 323 (rev)

11. Appendix G shall be updated in the Project Specifications:

Add San Francisco Public Utilities Commission (SFPUC) Consent Letter to Appendix G of the Project Specifications

12. Pages 4 – 24 (rev) of the PR (Proposal) Section shall be replaced in the Project Specifications:

Pages 4 – 24 (rev) of the PR Section with pages 4 (rev1) – 24 (rev1)

13. Pages 6-17 of the AG (Agreement) Section shall be replaced in the Project Specifications:

Replace pages 6-17 of the AG Section with pages 6 (rev) – 17 (rev)



To All Plan Holders
Middlefield Road Improvements Project
Addendum No. 3
December 24, 2020

Page 3

14. Sheets D-1 to D-7, PP-1, PP-6, SSG-2, TH-4, JT-2 to JT-6, JT-10, JT-11 and RR-1 shall be replaced in the Project Plans:

Replace sheets D-1 to D-7, PP-1, PP-6, SSG-2, TH-4, JT-2 to JT-6, JT-10, JT-11 and RR-1 with pages D-1 (rev) to D-7 (rev), PP-1 (rev), PP-6 (rev), SSG-2 (rev), TH-4 (rev), JT-2 (rev) to JT-6 (rev), JT-10 (rev), JT-11 (rev) and RR-1 (rev).

Please sign and return the attached “Receipt of Addendum No. 3” form. The “Receipt of Addendum No. 3” form MUST be received in this office no later than 4:00 PM, Wednesday, January 6, 2021 or the bid will NOT be considered. The Receipt of Addendum can be emailed to Gil Tourel’s attention email at gtourel@smcgov.org.

If you have any questions or require additional information, please contact Monika Raman, Carter Choi, or Gil Tourel of our office at (650) 363-4100. They can also be reached by e-mail at:

mraman@smcgov.org
cchoi@smcgov.org
gtourel@smcgov.org

Very truly yours,



James C. Porter
Director of Public Works

JCP:AMS:GT:CC:MR

F:\Users\design\C3D\E4931000_Middlefield Rd\Bid Process\Addendums (OD420)\Addendum No.3\Addendum No.3 Cover Letter.doc

Encl.- “Receipt of Addendum No. 3” Form

Revised Page iii (rev) of Table of Contents

Revised Pages 4 (rev 1) – 17 (rev1) of the NC (Notice to Contractor) Section

Revised Pages 69 (rev) and 76 (rev) of the SP (Special Provisions) Section

Revised Pages 91 (rev) and 92 (rev) of the SP (Special Provisions) Section

Revised Page 99 (rev) of the SP (Special Provisions) Section

Revised Page 126 (rev) of the SP (Special Provisions) Section

Revised Page 170 (rev) of the SP (Special Provisions) Section

Revised Pages 205 (rev) and 206 (rev) of the SP (Special Provisions) Section

Revised Pages 256 (rev), 257 (rev) and 259 (rev) – 262 (rev) of the SP (Special Provisions) Section

Revised Page 323 (rev) of the SP (Special Provisions) Section



To All Plan Holders
Middlefield Road Improvements Project
Addendum No. 3
December 24, 2020

Page 4

SFPUC Consent Letter in Appendix G
Revised Pages 4 (rev1) - 24 (rev1) of the PR (Proposal) Section
Revised Pages 6 (rev) – 17 (rev) of the AG (Agreement) Section
Revised Sheets D-1 (rev) - D-7 (rev), PP-1 (rev), PP-6 (rev), SSG-2 (rev), TH-4 (rev),
JT-2 (rev) - JT-6 (rev), JT-10(rev), JT-11 (rev) and RR-1(rev) of the project plans

cc: Ann M. Stillman, Deputy Director, Engineering and Resource Protection
Gil Tourel, Principal Civil Engineer, Engineering and Construction
Carter Choi, Senior Civil Engineer, Project Development and Design
Monika Raman, Associate Civil Engineer, Project Development and Design





James C. Porter
Director

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COUNTY OF SAN MATEO

**MIDDLEFIELD ROAD IMPROVEMENT PROJECT
IN THE NORTH FAIR OAKS AREA**

**TOTAL PROJECT APPROXIMATELY 0.5 MILE IN LENGTH
WITH APPURTENANT WORK THERETO
IN SAN MATEO COUNTY**

**COUNTY PROJECT NO. OD420
PROJECT FILE NO. E4931**

RECEIPT OF ADDENDUM NO. 3

I, _____, an
authorized representative for

_____, have received
Addendum No. 3 for the Middlefield Road Improvement Project from an authorized
representative of the County of San Mateo, to be included in the Specifications for the
above referenced project.

This form must be signed and received in the offices of the County of San Mateo,
Department of Public Works ***no later than 4:00 PM, Wednesday, January 6, 2021.***

“Contractor”

(Print)

(Signature)

(Date)

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ENGINEER'S ESTIMATE

**MIDDLEFIELD ROAD IMPROVEMENT PROJECT
IN THE NORTH FAIR OAKS AREA
TOTAL PROJECT APPROXIMATELY 0.5 MILES IN LENGTH
WITH APPURTENANT WORK THERETO
IN SAN MATEO COUNTY**

A BID IS REQUIRED FOR THE ENTIRE WORK DESCRIBED HEREIN FOR SCHEDULE A AND SCHEDULE B. THE AWARD OF CONTRACT, IF AWARDED, WILL BE MADE ON THE BASIS OF THE LOWEST SUM TOTAL OF BOTH SCHEDULE A AND SCHEDULE B.

SCHEDULE A (EXCLUDES JOINT TRENCH):

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|---|
| 1 | 10 | 1 | LS | Construction Waste Management |
| 2 | 11 | 1 | LS | Mobilization |
| 3 | 11-3 | 1 | LS | Water Pollution Control |
| 4 | 12 | 1 | LS | Maintaining Traffic |
| 5 | 12-2 | 1 | LS | Temporary Pavement Delineation |
| 6 | 15-2 | 14,810 | LF | Sawcut Asphalt Concrete and Portland Cement Concrete |
| 7A | 15-3 | 6 | EA | Adjust Storm Drain Manholes to Grade |
| 7B | 15-3 | 19 | EA | Adjust Telecom Manholes to Grade |
| 8A | 15-4 | 1 | EA | Reconstruct Storm Drain Manhole to Grade |
| 8B | 15-4 | 1 | EA | Reconstruct Telecom Manhole to Grade |
| 9 | 15-5 | 39 | EA | Adjust Water Valve Box to Grade (Cal Water) |
| 10 | 15-6 | 48 | EA | Adjust Water Meter Box to Grade (Cal Water) |
| 11 | 15-7 | 15 | EA | Adjust Monument Box Cover to Grade |
| 12 | 15-8 | <u>4,000</u> | SY | Remove Portland Cement Concrete Pavement |
| 13 | 15-9 | 50 | EA | Pothole and Protect Existing Utilities |
| 14 | 15-10 | 2 | EA | Temporary Relocation and Reinstallation of United States Postal Service Mailboxes |
| 15 | 15-11 | 2 | EA | Remove Telephones |
| 16 | 15-12 | 110 | EA | Adjust Sanitary Sewer Cleanout Box to Grade |
| 17 | 15-13 | 1 | EA | Adjust PG&E Utility Vault to Grade |

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|--|
| 18 | 15-14 | 1 | LS | Relocation Of Health Clinic Existing Fire Hydrant, Fire Department Connection And Sign And Regrading And Replanting Of Bioretention Area |
| 19 | 15-15 | 5 | EA | Adjust Existing Gas Valve to Grade |
| 20 | 15-16 | 16 | EA | Adjust Pull Boxes |
| 21 | 15-17 | 1 | EA | Relocate Pull Boxes |
| 22 | 15-18 | 1 | EA | Protect Bollard |
| 23 | 15-19 | 1 | EA | Adjust Existing Monitoring Well to Grade |
| 24 | 15-20 | 4 | EA | Remove Existing Pedestrian Signals |
| 25 | 15-21 | 1 | LS | Remove Concrete Curbs, Gutters, Sidewalks, Driveway Openings, Sidewalk Access Ramps, Valley Gutters and Medians |
| 26 | 15-22 | <u>21,790</u> | SY | Remove Asphalt Concrete Paving, Pavement Fabric, Aggregate Base |
| 27 | 16 | 1 | LS | Clearing and Grubbing |
| 28 | 16-1 | 1 | EA | Remove Trees |
| 29 | 17 | 1 | LS | Develop and Apply Water |
| 30 | 19-1 | <u>10,066</u> | CY | Roadway Excavation |
| 31 | 20 | 1 | LS | Erosion and Sediment Control |
| 32 | 25 | 60 | CY | Aggregate Subbase (Class 4) |
| 33 | 26 | <u>4,386</u> | CY | <u>Aggregate Base (Class 2)</u> |
| 34 | 36 | 34 | EA | Drainage Inlet Marker |
| 35 | 37-2 | 1 | EA | Remove and Relocate Existing Drainage Inlet |
| 36 | 37-2 | 2 | EA | Install New Drainage Inlet |
| 37 | 37-3 | 13 | EA | Clean and Inspect Existing Drainage Inlet |
| 38 | 39-1 | <u>8,102</u> | TON | Asphalt Concrete (Type B, 1/2" Maximum, Medium grading) |
| 39 | 39-3 | 114 | SY | Place Asphalt Concrete (Miscellaneous Areas) |
| 40 | 39-4 | <u>11,204</u> | SY | Plane Asphalt Concrete Pavement (Full Width) |
| 41 | 40 | 3,000 | SF | Portland Cement Concrete Pavement (Bus Pads) |
| 42 | 51-2 | <u>101</u> | CY | Class 2 Concrete (Minor Structures) |
| 43 | 51-3 | 860 | CY | Class 3 Concrete |
| 44 | 51-4 | 30 | EA | Sidewalk Access Ramps (Case A) |
| 45 | 51-4 | 1 | EA | Sidewalk Access Ramp (Case B with Retaining Curb) |
| 46 | 51-4 | 2 | EA | Sidewalk Access Ramps (Case C with Retaining Curb) |

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|---|
| 47 | 51-4 | 6 | EA | Sidewalk Access Ramps (Case C without Retaining Curb) |
| 48 | 51-4 | 2 | EA | Sidewalk Access Ramps (Case F) |
| 49 | 51-6 (S) | 400 | LF | Red Curb Painting at No Parking Zones |
| 50 | 56-1 | 40 | EA | Install New Roadside Signs |
| 51 | 56-2 | 75 | EA | Remove and Reset Existing Roadside Signs |
| 52 | 68-3 | 160 | LF | PVC Underdrains |
| 53 | 68-5 | 600 | LF | Sidewalk Underdrains (Ductile Iron) |
| 54 | 75 (F) | 2,850 | LBS | Miscellaneous Iron and Steel |
| 55 | 81 (S) | 14 | EA | Survey Monument |
| 56 | 84-3 (S) | 14,000 | SF | Thermoplastic Pavement Marking (Crosswalks and Legends) |
| 57 | 84-3 (S) | 22,000 | LF | Thermoplastic Striping (by color) |
| 58 | 85 (S) | 81 | EA | Pavement Markers, Type D (Two-way, Yellow, Retroreflective) |
| 59 | 85 (S) | 54 | EA | Pavement Markers, Type G (Two-way, Yellow, Retroreflective) |
| 60 | 85 (S) | 8 | EA | Pavement Markers, Hydrant Marker (Blue Reflective) |
| 61 | 86-2 (S) | 15 | EA | Install New Traffic Signal |
| 62 | 86-2A (S) | 1 | EA | Modify Existing Traffic Signal (at 5th Ave) |
| 63 | 86-3 (S) | 45 | EA | Traffic Loop Detectors (Type E) |
| 64 | 86-3 (S) | 14 | EA | Traffic Loop Detectors (Type D) |
| 65 | 86-26 (S) | 1 | LS | Solar Powered Beacon and Sign Systems |
| 66 | 86-27 (S) | 41 | EA | Streetlights – Street |
| 67 | 86-27 (S) | 28 | EA | Streetlights – Pedestrian |
| 68 | 86-27 (S) | 65 | EA | Streetlight Pull Box |
| 69 | 100 (S) | 1 | LS | Construction Staking |
| 70 | 101 | 1 | LS | Temporary Fence |
| 71 | 103-1.3 (S) | 1 | LS | Holiday Lights |
| 72 | 103-1.3 | 1 | LS | Wifi Systems |
| 73 | 103-3.1 | 1 | LS | Closed Circuit Television (CCTV) Inspection of Sanitary Sewer Lines |
| 74 | 103-3.3 | 28 | EA | Remove and Replace Existing Sanitary Sewer Manhole |
| 75 | 103-3.3 | 2 | EA | Remove and Relocate Sanitary Sewer Manhole |
| 76 | 103- 3.7 | 60 | LF | Sanitary Sewer Lateral Repair |

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|----------------------|---------------------------|------------------------|---|
| 77 | 105-3 | 1 | LS | Trench Safety |
| 78 | 106-2 | 6,155 | LF | Pipe Replacement (Open Trench) - 8" PVC Pipeline |
| 79 | 106-2 | 425 | LF | Pipe Replacement (Open Trench) - 24" PVC Pipeline |
| 80 | 106-3 | 181 | EA | Reconnect Sanitary Sewer Lateral (Open-Trench Method) |
| 81 | 108 | 132 | EA | Utility Line Crossings |
| 82 | 108-1 | 1 | LS | San Francisco (Hetch Hetchy) Water Transmission Line Crossings |
| 83 | 113 (S) | 450 | LF | Jack and Bore Crossing #1 (Middlefield Road): One 36", one 30" and one 24" Steel Casings (150 LF Each) |
| 84 | 113 (S) | 180 | LF | Jack and Bore Crossing #2 (Redwood Junction): One 10" and one 18" Steel Casing (90 LF Each) |
| 85 | 113 (S) | 150 | LF | Jack and Bore Crossing #3 (Sanitary Sewer): One 16" Steel Casing |
| 86 | 114-1 (S) | 1 | LS | Irrigation System |
| 87 | 114-2.3.7 (S) | 61 | EA | 48" Boxed Trees |
| 88 | 114-2.3.7 (S) | 5 | EA | 36" Boxed Trees |
| 89 | 114-2.3.7 (S) | 820 | EA | Canned Shrubs/Vines (1-Gallon) |
| 90 | 114-2.3.7 (S) | 144 | EA | Canned Shrubs/Vines (5-Gallon) |
| 91 | 114-3.2.1 | 18 | EA | Benches |
| 92 | 114-3.2.1 | 2 | EA | Special Bulb-Out Seatwall |
| 93 | 114-3.2.2 | 13 | EA | Bike Rack |
| 94 | 114-3.2.3 | 12 | EA | Trash and Recycle Receptacle |
| 95 | 114-3.2.4 | 66 | EA | Tree Grate (48"x72") |
| 96 | 114-3.2.5 | 300 | SF | Special Bulb-Out Paving |
| 97 | 114-4 | 1 | LS | Tree Protection |
| 98 | 115-2 | 908 | SF | Bioretention Concrete Walls Reinforcing |
| 99 | 115-3 | 1,590 | LF | Bioretention Collection and Discharge Piping and Structures |
| 100 | 115-4 | 300 | CY | Bioretention Basin Fill Material |

SCHEDULE B (JOINT TRENCH):

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|---|
| 1 | 10 | 1 | LS | Construction Waste Management |
| 2 | 11 | 1 | LS | Mobilization |
| 3 | 11-3 | 1 | LS | Water Pollution Control |
| 4 | 12 | 1 | LS | Maintaining Traffic |
| 5 | 15-2 | 26,675 | LF | Sawcut Asphalt Concrete and Portland Cement Concrete |
| 6 | 103-1 (S) | <u>6</u> | EA | Electric Utility box - 4'6" x 8'6" x 6' #7-Box |
| 7 | 103-1 (S) | 8 | EA | Electric Utility box - 54" x 102" x 72" #7TR Box |
| 8 | 103-1 (S) | 1 | EA | Electric Utility box - 54" x 102" x 72" #7S Box |
| 9 | 103-1 (S) | 6 | EA | Electric Utility box - 54" x 78" x 60" #6S Box |
| 10 | 103-1 (S) | 1 | EA | Electric Utility box - 54" x 78" x 60" #6J Box |
| 11 | 103-1 (S) | 2 | EA | Electric Utility box - 54" x 78" x 60" #6I Box |
| 11A | 103-1 (S) | 1 | EA | Electric Utility box – 36" x 60" x 30" #5 Box |
| 11B | 103-1 (S) | 1 | EA | Electric Utility box – 36" x 60" x 54" #5S Splice Box |
| 12 | 103-1 (S) | <u>17</u> | EA | Electric Utility box - 24" x 36" x <u>36"</u> #3F Splice Box Full Traffic |
| 13 | 103-1 (S) | <u>14</u> | EA | Electric Utility box - 24" x 36" x <u>26"</u> #3 Splice Box |
| 14 | 103-1 (S) | 4 | EA | Electric Utility box - <u>24" x 36" x 26"</u> #2-Box |
| 14A | 103-1 (S) | 1 | EA | Electric Utility box – 17" x 36" x 30" #2F Box |
| 14B | 103-1 (S) | 2 | EA | Electric Utility box – 17" x 30" x 30" #2F Box |
| 15 | 103-1 (S) | 7 | EA | Telephone Utility box - 48" x 78" x 48" T8-Box |
| 16 | 103-1 (S) | 7 | EA | Telephone Utility box - 30" x 48" x 36" T4-Box |
| 17 | 103-1 (S) | 9 | EA | Telephone Utility box - 17" x 30" x 24" T3-Box |
| 18 | 103-1 (S) | 13 | EA | Fiber Utility box - 30" x 48" x 24" B-48 Box |
| 19 | 103-1 (S) | 21 | EA | Fiber Utility box - 24" x 36" x 14" B-40 Box |
| 20 | 103-1 (S) | 33 | EA | CATV Utility Box - 20" x 42" x 24" B-44 Box |
| 21 | 103-1 (S) | 2 | EA | Telephone Utility box - 30" x 60" x 36" T2-Box |
| 22 | 103-1 (S) | 392 | LF | Utility Trench Section D - 24x60 |
| 23 | 103-1 (S) | 25 | LF | Utility Trench Section D1 - 36x60 |
| 24 | 103-1 (S) | 90 | LF | Utility Trench Section D2 - 24x53 |
| 25 | 103-1 (S) | 46 | LF | Utility Trench Section D3 - 42x63 |
| 26 | 103-1 (S) | 19 | LF | Utility Trench Section D4 - 42x63 |
| 27 | 103-1 (S) | 332 | LF | Utility Trench Section D5 - 24x58 |
| 28 | 103-1 (S) | 45 | LF | Utility Trench Section D6 - 36x58 |

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|------------------------------------|
| 29 | 103-1 (S) | 30 | LF | Utility Trench Section D7 - 36x64 |
| 30 | 103-1 (S) | 22 | LF | Utility Trench Section D8 - 42x62 |
| 31 | 103-1 (S) | 17 | LF | Utility Trench Section D9 - 36x65 |
| 32 | 103-1 (S) | 133 | LF | Utility Trench Section D10 - 18x56 |
| 33 | 103-1 (S) | 15 | LF | Utility Trench Section D11 - 36x65 |
| 34 | 103-1 (S) | 58 | LF | Utility Trench Section D14 - 42x62 |
| 35 | 103-1 (S) | 116 | LF | Utility Trench Section D15 - 42x62 |
| 36 | 103-1 (S) | 24 | LF | Utility Trench Section D16 - 18x52 |
| 37 | 103-1 (S) | 93 | LF | Utility Trench Section D17 - 30x65 |
| 38 | 103-1 (S) | 230 | LF | Utility Trench Section D18 - 36x60 |
| 39 | 103-1 (S) | 67 | LF | Utility Trench Section D19 - 42x62 |
| 40 | 103-1 (S) | 95 | LF | Utility Trench Section D20 - 24x60 |
| 41 | 103-1 (S) | 35 | LF | Utility Trench Section D21 - 30x58 |
| 42 | 103-1 (S) | 16 | LF | Utility Trench Section D22 - 30x60 |
| 43 | 103-1 (S) | 67 | LF | Utility Trench Section D23 - 30x63 |
| 44 | 103-1 (S) | 431 | LF | Utility Trench Section D24 - 24x56 |
| 45 | 103-1 (S) | 198 | LF | Utility Trench Section D25 - 36x64 |
| 46 | 103-1 (S) | 14 | LF | Utility Trench Section D26 - 30x60 |
| 47 | 103-1 (S) | 32 | LF | Utility Trench Section D28 - 30x58 |
| 48 | 103-1 (S) | 63 | LF | Utility Trench Section D29 - 42x63 |
| 49 | 103-1 (S) | 32 | LF | Utility Trench Section D30 - 30x58 |
| 50 | 103-1 (S) | 83 | LF | Utility Trench Section D31 - 24x55 |
| 51 | 103-1 (S) | 135 | LF | Utility Trench Section D32 - 30x60 |
| 52 | 103-1 (S) | 67 | LF | Utility Trench Section D33 - 30x60 |
| 53 | 103-1 (S) | 72 | LF | Utility Trench Section D34 - 30x54 |
| 54 | 103-1 (S) | 203 | LF | Utility Trench Section D35 - 24x58 |
| 55 | 103-1 (S) | 40 | LF | Utility Trench Section D36 - 36x70 |
| 56 | 103-1 (S) | 60 | LF | Utility Trench Section D37 - 36x65 |
| 57 | 103-1 (S) | 21 | LF | Utility Trench Section D38 - 24x58 |
| 58 | 103-1 (S) | 36 | LF | Utility Trench Section D39 - 18x58 |
| 59 | 103-1 (S) | 33 | LF | Utility Trench Section D40 - 24x53 |
| 60 | 103-1 (S) | 10 | LF | Utility Trench Section D41 - 36x70 |
| 61 | 103-1 (S) | 55 | LF | Utility Trench Section D42 - 36x65 |
| 62 | 103-1 (S) | 42 | LF | Utility Trench Section D43 - 36x64 |

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|---|
| 63 | 103-1 (S) | 66 | LF | Utility Trench Section D44 - 36x65 |
| 64 | 103-1 (S) | 23 | LF | Utility Trench Section D45 - 42x55 |
| 65 | 103-1 (S) | 17 | LF | Utility Trench Section D46 - 30x65 |
| 66 | 103-1 (S) | 25 | LF | Utility Trench Section D48 - 30x58 |
| 67 | 103-1 (S) | 36 | LF | Utility Trench Section D49 - 24x58 |
| 68 | 103-1 (S) | 18 | LF | Utility Trench Section D50 - 18x58 |
| 69 | 103-1 (S) | 60 | LF | Utility Trench Section D51 - 42x63 |
| 70 | 103-1 (S) | 31 | LF | Utility Trench Section D52 - 42x63 |
| 71 | 103-1 (S) | 31 | LF | Utility Trench Section D53 - 42x54 |
| 72 | 103-1 (S) | 28 | LF | Utility Trench Section D54 - 24x62 |
| 73 | 103-1 (S) | 46 | LF | Utility Trench Section D55 - 30x53 |
| 74 | 103-1 (S) | 19 | LF | Utility Trench Section D56 - 30x55 |
| 75 | 103-1 (S) | 17 | LF | Utility Trench Section D57 - 30x61 |
| 76 | 103-1 (S) | 39 | LF | Utility Trench Section D58 - 36x65 |
| 77 | 103-1 (S) | 74 | LF | Utility Trench Section D59 - 18x56 |
| 78 | 103-1 (S) | 11 | LF | Utility Trench Section D60 - 30x64 |
| 79 | 103-1 (S) | 17 | LF | Utility Trench Section D61 - 36x60 |
| 79A | 103-1 (S) | 57 | LF | Utility Trench Section D62 – 36x64 |
| 80 | 103-1 (S) | 7 | LF | Utility Trench Section D63 - 24x58 |
| 81 | 103-1 (S) | 39 | LF | Utility Trench Section D64 - 42x54 |
| 82 | 103-1 (S) | 7 | LF | Utility Trench Section D65 - 24x57 |
| 83 | 103-1 (S) | 32 | LF | Utility Trench Section D66 - 30x56 |
| 84 | 103-1 (S) | 62 | LF | Utility Trench Section F - 24x59 |
| 85 | 103-1 (S) | 32 | LF | Utility Trench Section D67 - 42x63 |
| 86 | 103-1 (S) | 38 | LF | Utility Trench Section D68 - 30x60 |
| 87 | 103-1 (S) | 45 | LF | Utility Trench Section D70 42x48 |
| 87A | 103-1 (S) | 38 | LF | Utility Trench Section D71 30x52 |
| 88 | 103-1 (S) | 57 | LF | Utility Trench Section F1 - 42x54 |
| 89 | 103-1 (S) | 11 | LF | Utility Trench Section F2 - 42x54 |
| 90 | 103-1 (S) | 25 | LF | Utility Trench Section F5 - 30x59 |
| 91 | 103-1 (S) | 51 | LF | Utility Trench Section F6 - 18x52 |
| 92 | 103-1 (S) | 58 | LF | Utility Trench Section F7 - 12x52 |
| 92A | 103-1 (S) | 20 | LF | Utility Trench Section F8 - 30x46 |
| 92B | 103-1 (S) | 10 | LF | Utility Trench Section F9 - 18x46 |
| 92C | 103-1 (S) | 754 | LF | Utility Trench Section F10 – 18x46 |

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| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|---|
| 93 | 103-1 (S) | 181 | LF | Utility Trench Section G - 36x59 |
| 94 | 103-1 (S) | 28 | LF | Utility Trench Section G1 - 24x50 |
| 95 | 103-1 (S) | 45 | LF | Utility Trench Section G2 - 24x56 |
| 96 | 103-1 (S) | 59 | LF | Utility Trench Section G3 - 30x58 |
| 97 | 103-1 (S) | 30 | LF | Utility Trench Section G4 - 12x50 |
| 98 | 103-1 (S) | 56 | LF | Utility Trench Section G7 - 30x60 |
| 99 | 103-1 (S) | 196 | LF | Utility Trench Section H - 12x43 |
| 100 | 103-1 (S) | 106 | LF | Utility Trench Section H1 - 18x43 |
| 101 | 103-1 (S) | 49 | LF | Utility Trench Section H2 - 30x43 |
| 102 | 103-1 (S) | 113 | LF | Utility Trench Section H3 - 18x41 |
| 103 | 103-1 (S) | 167 | LF | Utility Trench Section H5 - 30x43 |
| 104 | 103-1 (S) | 331 | LF | Utility Trench Section H6 - 12x41 |
| 105 | 103-1 (S) | 50 | LF | Utility Trench Section H7 – 30x41 |
| 106 | 103-1 (S) | 41 | LF | Utility Trench Section H8 – 24x49 |
| 107 | 103-1 (S) | 67 | LF | Utility Trench Section H9 – 18x48 |
| 108 | 103-1 (S) | 111 | LF | Utility Trench Section H10 – 18x43 |
| 109 | 103-1 (S) | 598 | LF | Utility Trench Section H11 – 18x37 |
| 110 | 103-1 (S) | 94 | LF | Utility Trench Section H12 – 30x53 |
| 111 | 103-1 (S) | 17 | LF | Utility Trench Section H13 – 72x47 |
| 112 | 103-1 (S) | 31 | LF | Utility Trench Section H14 – 42x42 |
| 113 | 103-1 (S) | 129 | LF | Utility Trench Section H15 – 24x53 |
| 114 | 103-1 (S) | 47 | LF | Utility Trench Section H16 – 30x53 |
| 115 | 103-1 (S) | 16 | LF | Utility Trench Section H17 – 24x51 |
| 116 | 103-1 (S) | 39 | LF | Utility Trench Section H19 – 30x53 |
| 117 | 103-1 (S) | 20 | LF | Utility Trench Section H20 – 18x48 |
| 117A | 103-1 (S) | 140 | LF | Utility Trench Section L-18x41 |
| 118 | 103-1 (S) | 201 | LF | Utility Trench Section L1 – 18x36 |
| 119 | 103-1 (S) | 136 | LF | Utility Trench Section L2 – 18x41 |
| 120 | 103-1 (S) | 69 | LF | Utility Trench Section L3 – 12x50 |
| 121 | 103-1 (S) | 184 | LF | Utility Trench Section L5 – 12x36 |
| 122 | 103-1 (S) | 246 | LF | Utility Trench Section L6 – 18x41 |
| 123 | 103-1 (S) | 137 | LF | Utility Trench Section L7 – 18x35 |
| 124 | 103-1 (S) | 38 | LF | Utility Trench Section L8 – 18x29 |
| 125 | 103-1 (S) | 176 | LF | Utility Trench Section L9 - 12x33 |
| 126 | 103-1 (S) | 54 | LF | Utility Trench Section L10 - 18x35 |

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| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|--|
| 127 | 103-1 (S) | 46 | LF | Utility Trench Section L11 - 24x39 |
| 128 | 103-1 (S) | 173 | LF | Utility Trench Section L12 - 18x51 |
| 129 | 103-1 (S) | 73 | LF | Utility Trench Section L13 - 12x38 |
| 130 | 103-1 (S) | 18 | LF | Utility Trench Section L14 - 18x39 |
| 131 | 103-1 (S) | 164 | LF | Utility Trench Section L15 - 12x37 |
| 132 | 103-1 (S) | 771 | LF | Utility Trench Section P - 12x54 |
| 133 | 103-1 (S) | 13 | LF | Utility Trench Section P1 - 18x54 |
| 134 | 103-1 (S) | 61 | LF | Utility Trench Section P2 - 12x56 |
| 135 | 103-1 (S) | 82 | LF | Utility Trench Section P3 - 24x52 |
| 136 | 103-1 (S) | 83 | LF | Utility Trench Section P4 - 24x58 |
| 137 | 103-1 (S) | 139 | LF | Utility Trench Section P5 - 12x50 |
| 138 | 103-1 (S) | 40 | LF | Utility Trench Section P6 - 12x55 |
| 139 | 103-1 (S) | 39 | LF | Utility Trench Section P7 - 18x51 |
| 140 | 103-1 (S) | 17 | LF | Utility Trench Section P8 - 18x53 |
| 141 | 103-1 (S) | 22 | LF | Utility Trench Section P9 - 18x56 |
| 142 | 103-1 (S) | 25 | LF | Utility Trench Section P10 - 18x49 |
| 143 | 103-1 (S) | 81 | LF | Utility Trench Section P11 - 18x58 |
| 144 | 103-1 (S) | 102 | LF | Utility Trench Section P12 - 12x51 |
| 145 | 103-1 (S) | 82 | LF | Utility Trench Section P14 - 18x52 |
| 146 | 103-1 (S) | 338 | LF | Utility Trench Section P15 - 12x52 |
| 147 | 103-1 (S) | 40 | LF | Utility Trench Section P17 - 18x53 |
| 148 | 103-1 (S) | 381 | LF | Utility Trench Section P18 - 12x54 |
| 149 | 103-1 (S) | 50 | LF | Utility Trench Section P19 - 18x52 |
| 150 | 103-1 (S) | 83 | LF | Utility Trench Section P20 - 18x57 |
| 151 | 103-1 (S) | 69 | LF | Utility Trench Section P21 - 12x52 |
| 152 | 103-1 (S) | 55 | LF | Utility Trench Section P22 - 18x53 |
| 153 | 103-1 (S) | 72 | LF | Utility Trench Section P23 - 12x52 |
| 154 | 103-1 (S) | 12 | LF | Utility Trench Section P24 - 12x30 |
| 155 | 103-1 (S) | 12 | LF | Utility Trench Section R - 24x49 |
| 156 | 103-1 (S) | 34 | LF | Utility Trench Section R1 - 18x50 |
| 156A | 103-1 (S) | 36 | LF | Utility Trench Section R2 – 18x44 |
| 156B | 103-1 (S) | 55 | LF | Utility Trench Section R3 – 18x42 |
| 157 | 103-1 (S) | 26 | LF | Utility Trench Section S - 12x49 |
| 158 | 103-1 (S) | 45 | LF | Utility Trench Section S1 - 12x49 |
| 158A | 103-1 (S) | 74 | LF | Utility Trench Section S2 – 18x50 |

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| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|-----------------|--------------------|---------------------------|------------------------|--|
| 159 | 103-1 (S) | 208 | LF | Utility Trench Section U - 18x41 |
| 160 | 103-1 (S) | 130 | LF | Utility Trench Section U1 - 12x50 |
| 161 | 103-1 (S) | 48 | LF | Utility Trench Section U2 - 24x52 |
| 162 | 103-1 (S) | 178 | LF | Utility Trench Section U3 - 24x58 |
| 163 | 103-1 (S) | 32 | LF | Utility Trench Section U4 - 12x50 |
| 164 | 103-1 (S) | 36 | LF | Utility Trench Section U5 - 18x50 |
| 165 | 103-1 (S) | 59 | LF | Utility Trench Section U6 - 18x51 |
| 166 | 103-1 (S) | 94 | LF | Utility Trench Section U7 - 18x53 |
| 166A | 103-1 (S) | 28 | LF | Utility Trench Section U8 – 12x35 |
| 166B | 103-1 (S) | 19 | LF | Utility Trench Section U9 – 12x41 |
| 167 | 103-1 (S) | 187 | LF | Utility Trench Section V - 18x56 |
| 168 | 103-1 (S) | 72 | LF | Utility Trench Section V1 - 18x36 |
| 169 | 103-1 (S) | 32 | LF | Utility Trench Section V2 - 18x58 |
| 170 | 103-1 (S) | 55 | LF | Utility Trench Section V3 - 12x51 |
| 171 | 103-1 (S) | 1,380 | LF | Utility Trench Section W - 6x35 |
| 172 | 103-1 (S) | 920 | LF | Utility Trench Section W1 - 12x35 |
| 173 | 103-1 (S) | 38 | LF | Utility Trench Section W2 - 18x35 |
| 174 | 103-1 (S) | 37 | LF | Utility Trench Section W3 - 18x49 |
| 175 | 103-1 (S) | 25 | LF | Utility Trench Section W4 - 18x41 |
| 176 | 103-1 (S) | 144 | LF | Utility Trench Section W5 - 12x51 |
| 177 | 103-1 (S) | 24 | LF | Utility Trench Section W6 - 12x34 |
| 178 | 103-1 (S) | 6 | LF | Utility Trench Section W7 - 12x33 |
| 179 | 103-1 (S) | 5 | LF | Utility Trench Section W8 - 12x36 |
| 180 | 103-1 (S) | 49 | LF | Utility Trench Section W9 - 24x34 |
| 181 | 103-1 (S) | 10 | LF | Utility Trench Section W10 - 18x35 |
| 182 | 103-1 (S) | 333 | LF | Utility Trench Section W11 - 18x39 |
| 183 | 103-1 (S) | 14 | LF | Utility Trench Section W12 - 12x35 |
| 184 | 103-1 (S) | 20 | LF | Utility Trench Section W13 - 12x35 |
| 185 | 103-1 (S) | 150 | LF | Jack and Bore Utility Crossing - Trench Section H16 - 36" DIA Casing |
| 186 | 103-1 (S) | 150 | LF | Jack and Bore Utility Crossing - Trench Section V3 - 30" Casing |
| 187 | 103-1 (S) | 150 | LF | Jack and Bore Utility Crossing - Trench Section W - 24" DIA Casing |

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued on Next Page

ENGINEER'S ESTIMATE (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description |
|----------------|----------------------|--------------------|-----------------|--|
| 188 | 103-1 (S) | 90 | LF | Jack and Bore Utility Crossing - Trench Section U7 - 18" DIA Casing |
| 189 | 103-1 (S) | 90 | LF | Jack and Bore Utility Crossing - Trench Section V - 12" DIA Casing |
| 190 | 103-1 (S) | 90 | LF | Jack and Bore Utility Crossing - Trench Section H6 - 10" DIA Casing |
| 191 | 103-1 (S) | 2 | LS | Jack and Bore Preparation - Pits - Jacking Pit |
| 192 | 103-1 (S) | 2 | LS | Jack and Bore Preparation - Pits - Receiving Pit |
| 193 | 103-1 (S) | 2,667 | CY | Jack and Bore Preparation - Backfill and Compaction of Pits - Middlefield Road |
| 194 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Dewatering - Middlefield Road |
| 195 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Pavement Restoration - Middlefield Road |
| 196 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Shoring - Middlefield Road |
| 197 | 103-1 (S) | 1,500 | CY | Jack and Bore Preparation - Backfill and Compaction of Pits - UP R/W |
| 198 | 103-1 (S) | 90 | LF | Jack and Bore Preparation - Dewatering - UP R/w |
| 199 | 103-1 (S) | 90 | LF | Jack and Bore Preparation - Shoring - UP RW |
| 200 | 105-3 | 1 | LS | Trench Safety |

Engineer's Estimate of SCHEDULE A Costs: \$ 22,426,874

Engineer's Estimate of SCHEDULE B Costs: \$ 5,505,886

TOTAL BASE BID (SCHEDULE A+B): \$ 28,932,760

NOTES:

- (1) (F) Final Pay Quantities – See Section 9-1.015, “Final Pay Items,” of the Standard Specifications.
- (2) (S) Specialty Items – As defined in Section 8-1.01, “Subcontracting,” of the Standard Specifications.
- (3) Gaps in Schedule A and Schedule B section numbering, above, indicate the Section is blank or does not apply.

The foregoing quantities are approximate only, being given as a basis for the comparison of bids, and the County of San Mateo does not, expressly or by implication, agree that the actual amount of work will correspond herewith, but reserves the right to increase or decrease the amount of any class or portion of the work, or to omit any portion of the work, as may be deemed necessary or expedient by the Engineer.

Payment to the Contractor for materials furnished and work completed shall be made by the County in accordance with Section 9 of the “Special Provisions” portion of these Contract Documents. Pursuant to Section 22300 of the Public Contract Code, Contractor may, upon his

request and at Contractor's expense, substitute equivalent securities for any moneys retained from such payment for the fulfillment of the Contract.

When applicable, both Contractor and Subcontractor hereby agrees to pay not less than prevailing rates of wages and be responsible for compliance with all the provisions of the California Labor Code, Article 2-Wages, Chapter 1, Part 7, Division 2, Section 1770 et seq and Section 1810 et seq. A copy of the prevailing wage scale established by the Department of Industrial Relations is on file in the office of the Director of Public Works, and available at www.dir.ca.gov/DLSR or by phone at 415-703-4774. California Labor Code Section 1776(a) requires each contractor and subcontractor keep accurate payroll records of trades workers on all public works projects and to submit copies of certified payroll records upon request.

Additionally, pursuant to State Senate Bill SB 854 (Stat. 2014, chapter 28), effective January 1, 2015:

- A. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code Section 1771.1(a)].**
- B. No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5.**
- C. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.**

Wage rates for overtime shall be paid at not less than one and one-half (1½) times the above rates. Wage rates for Sundays and holidays shall be paid at not less than two times the above rates.

The holidays upon which such rates shall be paid shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification, or type of worker employed on the Project.

It is the policy of the County that Contractors on public projects employ their workers and craftsmen from the local labor market whenever possible. "Local Labor Market" is defined as the labor market within the geographical confines of the County of San Mateo, State of California. Consistent with this policy, the Contractor is requested to employ craftsmen and other workers from the local labor market whenever possible to do so.

Each bidder shall submit with the bid, Certificates of Compliance and Intent on a form provided in the "Proposal" section of these Contract Documents, a certificate that bidder is in compliance with the provisions of the Equal Employment Opportunity Requirement of Executive Order 11246, Title VII of the Civil Rights Act of 1964, the California Fair Employment and Housing Act and any other federal, State and local laws and regulations relating to equal employment opportunity. With the execution of said certificates, bidder also agrees that bidder will maintain or develop and implement, during the course of the work concerned, a program of hiring and employment, conducted without regard to race, religion, color, national origin, ancestry, sexual orientation, or sex of the applicants. With this certification, bidder shall submit any and all information that may be required by the County in connection with the particular project.

Each bidder is hereby notified of the Section 9204 and Section 20104 et seq. of the Public Contract Code as those Sections (attached hereto as Appendix E) relate to resolution of construction claims, and to Section 3186 of the Civil Code, as amended January 1, 1999 with regard to stop notices and public entity's rights to retain monies in order to provide for that entity's reasonable cost of litigation. The bidder is further notified that all provisions of Section 9204 and Section 20104 et seq. of the Public Contract Code and Section 3186 of the Civil Code, as outlined above shall be considered as incorporated into and become an integral part of these specifications.

Questions relating to equal employment should be directed to the San Mateo County Department of Public Works, Equal Employment Opportunity Program, 555 County Center, 5th Floor, Redwood City, CA 94063-1665, telephone (650) 363-4100.

Plans and Specifications and forms of Proposal and Contract may be seen and obtained at the office of the Director of Public Works, 555 County Center, Redwood City, California, 94063-1665. Plans and specifications may be obtained for a:

NON-REFUNDABLE FEE OF \$100 PER SET

Additional technical questions should be directed to the office of the Director of Public Works, 555 County Center, Redwood City, California, 94063-1665, telephone (650) 363-4100.

The Contractor shall possess either a Class A License or a combination of Class C licenses that are applicable for the majority of the work at the time this contract is awarded. No Contract will be awarded to a Bidder who is not licensed as required by laws of the State of California.

The Contractor is advised that a virtual pre-bid conference will occur on November 12, 2020 at 10:00AM, and shall take place virtually on Microsoft Teams, toll free number: 1-877-286-5733 and conference ID number: 700 637 16#. Subsequently, Contractor shall email mrman@smcgov.org to be invited to the virtual pre-bid conference via an email appointment.

The virtual pre-bid conference is not mandatory; however, the Contractor is advised that inspection of the site prior to the bid submittal and acknowledgement of said inspection will be required for the acceptance of the bid.

The Contractor shall sign and date the Acknowledgement of Site Visit form provided on page 19 of the Proposal Section and submit with the bid. Failure to complete this form shall be grounds for rejection of the bid.

The County of San Mateo reserves the right to reject any or all bids and/or waive any informalities or irregularities in any bid received.

Bidders may not withdraw their bid for a period of **FORTY-FIVE (45) DAYS** after the date set from the opening thereof.

BY ORDER OF THE
BOARD OF SUPERVISORS
COUNTY OF SAN MATEO

DATE: October 20, 2020

**Michael Callagy, County Manager/
Clerk of the Board of Supervisors**

SECTION 12 MAINTAINING TRAFFIC

Attention is directed to Sections 4-1.04, “Detours,” 7-1.08, “Public Convenience,” 7-1.09, “Public Safety,” 12-3, “Traffic Handling Equipment and Devices” and 12-2.02, “Flagging Costs,” of the Standard Specifications, these Special Provisions, the Standard Plans, the Project Plans and the directions of the Engineer. The first paragraph of Section 12-2.02, “Flagging Costs,” shall not apply. In connection with said sections, it is understood that all lights, signs, barricades, **k-rail, crash cushions**, flaggers or other necessary devices shall be furnished and maintained by the Contractor at the Contractor’s expense.

Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners. Convenient access to cross streets, driveways, houses and buildings along the line of work shall be maintained. Existing roadway surfaces within the project limits shall remain, except as required for subsurface work, until removal is necessary for construction of the roadway structural section. In this regard, general roadway excavation shall not commence until authorized by the Engineer.

12-1 PROPERTY OWNER **SECONDARY** NOTIFICATION

The Contractor shall furnish all affected property owners and/or residents secondary written notification **specific to each construction phase** that describes the proposed work, including relevant dates; the Contractor’s attention is directed to Section 11, “Mobilization,” for primary notification requirements. The content, format and method of delivery of such secondary notices shall be approved by the Engineer prior to distribution. Affected property owners and residents shall be considered all those who:

- A. Front on or are contiguous to the Project limits.
- B. Have ingress/egress route only from within the Project limits.
- C. Have executed a Right-of-Entry Agreement with the Real Property Division, County of San Mateo.

The Contractor shall provide approved notification to all affected owners/residents a minimum of **FORTY-EIGHT (48) HOURS** prior to the commencement of any Project specific

Disposal of the tape shall conform to Section 7-15, “Disposal of Material Outside the Highway Right-of-Way,” of these Special Provisions.

12-2.2.2 Temporary Paint:

Temporary painted traffic stripes and pavement markings shall be located such that the temporary painted traffic stripes and markings will be completely covered by the permanent traffic stripes or markings.

Should, upon application of the permanent traffic stripes or markings, the temporary painted traffic stripes and markings still be visible, the Contractor will remove the paint, as directed by and to the satisfaction of the Engineer, all at the Contractor’s sole expense, and no additional compensation will be allowed therefore.

12-3 PAYMENT

The Contract lump sum price paid for “Maintaining Traffic,” shall include full compensation for furnishing Property Owner Secondary Notification, a complete Traffic Control Plan, providing all labor (including flagging costs and pilot car), materials (including all stationary and portable changeable message signs, lights, traffic cones, **k-rail and crash cushions (ACZ-350, or approved equal) at end of k-rail facing on-coming traffic**, and lane delineators), tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing, and disposing of the components of the traffic control system as shown on the Plans, the approved Traffic Control Plan, and the Standard Plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefore.

The Contract lump sum price for “Temporary Pavement Delineation” shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing, applying, maintaining and removing and disposing of temporary pavement delineation (reflective markers or tape or paint), as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore.

END OF SECTION

15-7 ADJUST MONUMENT BOX COVER TO GRADE

Pursuit to Monumental Preservation along Middlefield Rd, County of San Mateo will require a pre-construction Record Of Survey depicting location and character of each monument as depicted on the plan set.

Existing monument boxes shall be adjusted to conform to the surface of the new pavement in conformance with these Special Provisions, the Plans and the directions of the Engineer

The Contractor will be responsible for preserving the survey point in its original position.

Prior to adjustment of any monuments, Contractor is required to inform the Engineer a minimum of **two (2) working days** in advance, **and is responsible to verify with a corner record to the monuments local control (Reference Point).**

Monument boxes shall be adjusted by removing the existing concrete pad and pouring a new pad of Class 2 concrete. Extension rings will not be acceptable.

Quantities of monuments adjusted to grade will be determined as units from actual count.

The Contract unit price paid per each for this item, "Adjust Monument Box Cover to Grade," shall include, but not be limited to, full compensation for furnishing all labor, tools, material, equipment and incidentals necessary for doing all work involved to adjust monument boxes to grade, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore.

No adjustment to the Contractor bid price will be made for any increase or decrease in the quantities of this item, "Adjust Monument Box Cover to Grade," required. The provisions of Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications shall not apply to this item of work.

15-8 REMOVE PORTLAND CEMENT CONCRETE PAVEMENT

Removal of Portland cement concrete pavement shall conform to the provisions in Section 15-3, "Removing Concrete," of the Standard Specifications, and the Plans and these Special Provisions.

Existing concrete, as shown on the Plans or as designated by the Engineer to be removed, shall become the property of the Contractor and shall be completely removed. Removed material shall be disposed of in accordance with Section 7-15, "Disposal of Material Outside the Highway Right of Way," of these Special Provisions.

Where no joint exists in the pavement on the line at which the concrete is to be removed, a straight, neat cut with a power driven saw shall be made along said line to a minimum depth of 2 inches (2") or one-sixth of a foot (0.17 foot), before removing concrete pavement. Payment for saw cutting Portland cement concrete pavement shall be in accordance with Section 15-2, "Saw Cut Asphalt Concrete and Portland Cement Concrete Pavement," of these Special Provisions.

The quantities of Portland cement concrete pavement removed will be measured and paid for by the square yard.

The Contract unit price paid per square yard for this item, "Remove Portland Cement Concrete Pavement," shall include, but not be limited to, full compensation for furnishing all labor, material, tools, equipment and incidentals necessary for doing all work involved (including removal of bituminous or other overlaying material) in the removal and disposal of existing Portland cement concrete, as shown on the Plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore.

No deduction will be made from any excavation quantity for the quantity of Portland cement concrete pavement removed.

confirmation from the County as to the status of this item of work prior to incurring any cost. The Contractor shall not be entitled to any compensation under this item of work for any cost incurred, should he proceed in advance of receiving written authorization from the County.

15-14 RELOCATION OF HEALTH CLINIC EXISTING FIRE HYDRANT, FIRE DEPARTMENT CONNECTION AND SIGN AND REGRADING AND REPLANTING OF BIORETENTION AREA

Existing fire hydrant, fire department connection and sign as shown on the Plans shall be relocated in conformance with the provisions in 15-2.05, "Reconstruction" of the Standard Specifications, the detail in the Plans, these Special Provisions and the direction of the Engineer. Contractor to locate and expose existing supply water lines to the fire hydrant and fire department connection to confirm sizing, de-pressurize, install additional piping and reinstall the fire hydrant and fire department connection at the proposed locations. Contractor to coordinate with Health Clinic and fire department as-needed on work times to not affect occupancy requirements and Health Department/Cal Water as necessary to put the fire hydrant and fire department connection back into service.

Contractor to disassemble existing roadside sign, excavate and move foundation **and extend any electrical connection** to planned location after preparing the new location with proper depth of excavation, placement of AB and compaction to the satisfaction of the Engineer.

Contractor to fill/regrade, plant and update the irrigation system of the existing bioretention planter as shown on the Plans.

All materials removed during relocation shall become the property of the Contractor and shall be disposed of as specified in Section 7-15, "Disposal of Materials Outside the Highway Right of Way," of these Special Provisions.

The Contract lump sum prices paid for "Relocation of Health Clinic Existing Fire Hydrant, Fire Department Connection and Sign and Regrading and Replanting of Bioretention Area" shall include full compensation for furnishing all labor, materials, tools, equipment, and

of these Special Provisions. Acceptance testing shall be performed using California Test Method (CT) 338 or ASTM D6938, as directed by the Engineer.

The Contractor shall notify the County a minimum of one (1) working day prior to when compacted materials are ready to be tested. The County pays for Contractor's call for first test only. Should the first test fail, or the Engineer's designee to perform the first test arrive and the Contractor not be ready for the test, then all subsequent tests will be paid for by the Contractor until the desired compaction is reached, and no additional compensation will be allowed therefore.

Aggregate base that is used to provide temporary access to work areas and driveways, as well as all other work that is necessary to comply with Section 7-12, "Public Convenience," of these Special Provisions, shall not be included in the Contract quantity for Aggregate Base (Class 2), and shall be considered as included in the various Contract items of work, and no additional compensation shall be allowed therefore.

Aggregate base that is used for Sidewalk Access Ramps, as well as all other work that is necessary to comply with Section 51-4, "Sidewalk Access Ramps," of these Special Provisions, shall not be included in the Contract quantity for Aggregate Base (Class 2), and shall be considered as included in the unit Contract unit price paid per each for the item "Sidewalk Access Ramps," and no additional compensation shall be allowed therefore.

Aggregate base that is used for Textured Concrete and Colored Concrete Surfaces, as well as all other work that is necessary to comply with Section 51-6, "Textured Concrete and Colored Concrete Surfaces," of these Special Provisions, shall not be included in the Contract quantity for Aggregate Base (Class 2), and shall be considered as included in the unit Contract unit price paid per square foot for "Textured Concrete and Colored Concrete Surfaces," and no additional compensation shall be allowed therefore.

The Contract unit price paid per cubic yard for this item, "**Aggregate Base (Class 2)**," shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary for doing all the work involved in furnishing, hauling and placing aggregate base, complete in place, as shown on the Plans, as specified in the Standard

The Contractor shall take care when working in and around facilities to remain. The cost of repairing, to the satisfaction of the Engineer, any damage to said facilities to remain and resulting from the Contractor's operations, as determined by the Engineer, shall be performed by the Contractor, all at his expense, and no additional compensation will be allowed therefore.

Drainage inlet frames and covers shall be paid for as provided in Section 75, "Miscellaneous Iron and Steel," of the Standard Specifications and these Special Provisions.

The Contractor shall take care when working in and around facilities to remain. The cost of repairing, to the satisfaction of the Engineer, any damage to said facilities to remain and resulting from the Contractor's operations, as determined by the Engineer, shall be performed by the Contractor, all at his expense, and no additional compensation will be allowed therefore.

The Contract unit price paid per CY for the items, Sections 37-2, "Remove and Relocate Existing Drainage Inlet" and "Install New Drainage Inlet," 103-3, "Remove and Replace Existing Sanitary Sewer Manholes," and **"Remove and Relocate Sanitary Sewer Manholes"**, and 115, "Bioretention," as shown on the Plans" shall be in accordance with Section 51-1.23, "Payment," of the Standard Specifications, except it shall also include furnishing and setting metal frames, grates and covers, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary for doing all work involved in constructing minor structures from Class 2 concrete, complete in place, including, but not limited to, excavation and backfill, dewatering where required, for furnishing and placing all bar reinforcing and miscellaneous metal (including frames, grates and covers), connecting new or existing pipes to new structures (including cutting existing pipe ends flush with inside structure face), work required to avoid and protect all existing utility lines, providing and installing object markers, and other work as may be required by the Engineer to complete the installation, as shown on the Plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore.

SECTION 81 SURVEY MONUMENT

Survey monuments shall conform to Section 81, “Monuments,” of the Standard Specifications, these Special Provisions, the “Monument, Frame and Cover Detail” on the Plans, and the directions of the Engineer.

Survey monuments, frames and covers shall be installed where shown on the Plans, or at locations designated by the Engineer. The brass monument disc, as shown on the Detail drawing, will be furnished **and installed by the Contractor, and inspected by the Engineer. The Contractor shall notify the Engineer 2 working days prior to monument installation and include a pre-construction corner record verifying the monument to local control (reference points).**

The Contractor is advised that there are approximately **fourteen** monuments to be removed and replaced.

The survey monument, including frame and cover, shall be installed, complete in place, to the new pavement grade after the completion of all paving operations.

After the monument frame and cover have been set to finish grade, additional asphalt concrete (Type B, 3/8-inch maximum grading) shall be placed around the monument frame to protect the frame from traffic.

Care shall be taken so as not to disturb or cover existing surveying points during installation of the monument or while placing asphalt concrete around the monument frames.

Any surplus excavated material shall become the property of the Contractor and shall be disposed of in accordance with Section 7-15, “Disposal of Material Outside the Highway Right of Way,” of these Special Provisions.

The Contract unit price paid per each for this item, “Survey Monuments,” shall include full compensation for furnishing all labor, material (except brass monument disc), tools, equipment, and incidentals necessary for doing all work involved in installing survey monuments, and frames and covers, complete in place, including, but not limited to, asphalt

concrete required to protect the monuments, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore.

The Contractor is advised that the County Surveyor will review all Post Construction Corner Records for each reconstructed monument for approval. Should the County Surveyor determine that the monuments were not installed in a location in conformance with the preconstruction Record of Survey or Preconstruction Corner Records, the Contractor shall remove and reinstall the survey monument structure to the satisfaction of the County Surveyor, all at the Contractor's expense, and no additional compensation will be allowed thereof.

END OF SECTION

86-19.4 Telemetry

The external telemetry to and from the controller shall be via the communications module on the controller. An adapter cable shall be constructed and provided as necessary to interface the controller's communications module to the cabinet's telemetry interface.

86-20 (86-1.02Q(3)) CONTROLLER CABINET

86-20.1 General

Work under this section shall include the installation of McCain Type 352i ATC traffic signal cabinets as shown on the plans.

86-20.2 Technical and Functional Requirements

86-20.2.1 Cabinet Assembly

The contractor shall furnish a bench tested Cabinet assembly McCain 352i cabinet delivered with all required peripherals capable of operating a sixteen – vehicle phase, eight – pedestrian phase and 4 overlap phase intersection, and railroad preemption sequencing as shown on the plans, and shall include the following:

- The cabinet shall be capable to house a McCain model 2070LX controller assembly, operating latest Omni local intersection software.
- Detailed shop drawings of the cabinets showing dimensions, equipment placement layout, auxiliary panel placement and dimensions, and labeling shall be submitted upon request for review and approval prior to manufacture.
- The cabinet shall be designed for 16 channel operation.
- Load switches 1-8 shall be for vehicle phases 1-8.
- Load switches 9-12 shall be for overlap phases A, B, C, and D.
- Load switches 13-16 shall be for pedestrian phases 2, 4, 6, and 8.

- All load switch sockets shall be configured in a manner as described above without rewiring the back side of the load-bay.
- BIU load switch drivers 1-16 shall be wired to appropriate load switch sockets via a terminal block located on the front side of the load-bay as to allow checking voltage inputs to the load switch sockets without dropping the load- bay
- The cabinet shall have 0.125-inch-thick (minimum) Aluminum enclosure with minimum exterior dimensions: 55 inches high by 44.5 inches wide by 26 inches deep.
- The cabinet shall have powder coating finish free from scratches and weld flash. The welds shall be neatly formed, smooth and continuous.
- The top of the cabinet shall incorporate a 5- to 10-degree crown or slope from front to rear to prevent rain from accumulation.
- A rain resistant air flow exhaust channel shall be present along the entire width of the cabinet body, located above the door. The cabinet exhaust channel shall include a screen, and lack any slots or cavities, which would allow flying insects to build nests.
- Prior to delivery, the surface of the cabinet shall be cleaned to remove oil film, weld black, mill ink marks and leave the surface clean, bright, smooth, and non- sticky to the touch.
- The cabinet shall be designed for mounting on a concrete foundation using contractor furnished anchor bolts. The height of the foundation shall be 18 inches from finished grade for a standard **352i ATC** cabinet and or as shown on the plans.
- The cabinet foundation shall **fit McCain Type 352i Cabinet dimensions of 30.3” x 24.3” with a 21” x 15”** recessed area for conductors. All edges/corners of the foundation shall use ¾-inch chamfer strip.

- The police door must contain a metal rear cover on the inside of the cabinet to protect the switches and connections.
- The police panel shall include 2¼-inch RCA phone plug clearly labeled as #1 and #2. #1 shall be “Stop Time” and wired to the stop timer for all pre-programmed standard ring structures #2 shall be a manual advance. The cabinet shall also include a stop timer switch fully insulated ergonomic push button with 6-foot coil extension.
- The cabinet shall be equipped with two individually temperature-controlled fans. The lighting fixture installed in cabinet shall use the Type B door actuated “On- Off” switch and shall use two LED lights bars: one shall be installed between the two fans and the other shall be installed underneath the document drawer; and shall not hinder the operation of the drawer.
- The cabinet shall contain a pleated paper filter, to filter the incoming air. The filter shall be non-corrosive, vermin and insect proof, removable, and replaceable shall be secured to the louvered air entrance on the cabinet assembly door.
- The cabinet shall be provided with a thermostat to control the operation of the ventilation fan. The removable cabinet light, thermostat and fan panel is to be located on the top of the cabinet plenum. The thermostat shall be adjustable between 27°C (80.6°F) to 66°C (150.8°F).
- The cabinet shall be equipped with two adjustable equipment shelves
- The top shelf shall be dedicated for detector racks.
- The bottom shelf shall be dedicated for the controller assembly, power supply unit and a **32 Channel CMU with CMU Display Unit.**
- The cabinet shall be equipped with **a 2216-24 cabinet power supply, DC power/communication assembly, and an AC power assembly** with 50A line filter, 20A equipment circuit breaker, and 50A signal circuit breaker.

- The cabinet shall be equipped with one duplex non-GFI power receptacle mounted on top left inside corner of the cabinet, and one duplex GFI power receptacle mounted on lower right side of the power supply panel immediately below the circuit breakers.
- The cabinet shall be equipped with pull-out document drawer.
- The cabinet shall be equipped with one 16 – Position load bay, with terminal block silkscreen on both sides of all panels.
- The cabinet shall be equipped with two racks. Each rack with eight slots – two channel detectors (for a total of 32 channel detectors), one-inch single slot detector card, and two optical detector units. Each detector channel shall include an associated 3-position toggle switch for “Normal/Momentary/ON” operation installed on the detector lead-in cable (DLC) input panel.
- The cabinet shall be equipped with a single 32-channel detector panel with integrated test switches for each channel.
- The cabinet shall be equipped with two NEMA TS2 power supply, rated a 5A output.
- The cabinet shall be equipped with one **32 Channel Conflict Monitor Unit (CMU)** with Ethernet and RS 232 or approved equal. The **CMU** shall be capable for monitoring up to **32** traffic signal indications (channels) for conflict, improper sequencing, incorrect timing, and improper voltage levels. The **CMU** shall be fully compliant with **McCain 2070LX Controller and Type 352i Cabinet.**
- Traffic signal controller shall have the ability to activate a response to the advance preempt, simultaneous preempt, advance pedestrian preempt, gate down input, and provide an output regarding the traffic signal health.
- The cabinet shall be equipped with six TS2 Bus Interface units (BIU), with RS-232 diagnostic ports and socket mounted IC’s for ease of repair.

- The cabinet shall be equipped with 16 Model 200 load switches, dual indicating (I/O).
- The cabinet shall be equipped with one Model 204 flasher, dual circuit.
- The cabinet shall be equipped with six Model 430 flash transfer relays.
- The cabinet shall be equipped with 16 EDI Oracle 2E (dual channel) loop detector amplifiers or approved equal, 1-inch single slot per detector.
- The cabinet shall be equipped with eight load bay jumpers.
- The cabinet shall be equipped with one McCain 2070-8 interface adaptor, with front-mounted RS-232 data ports, SDLC interface to the Model 2070LX and TS2 power supply connection to the CU.
- The cabinet shall be equipped with a single RS-232 data communications serial cable from Controller Unit (CU) 2070-7A, two Opticom phase discriminator cards and the MMU event log data devices to allow data transfer into the Model 2070LX CU.
- The cabinet shall be equipped with Type full size 66B4-25 telephone termination block (25 pair).
- All CU, BIUs and CMU cables shall be sufficient length to allow the movement of the CU and the CMU.
- The traffic signal controller assembly shall be equipped with relays in the cabinet to monitor and activate a response within the traffic signal controller for the advance preempt, simultaneous preempt, advance pedestrian preempt, gate down input, and traffic signal health output.
- All wiring shall be neat in appearance. All cabinet wiring shall be continuous from its point of origin to its termination point. Butt type connections/splices shall not be accepted.

- All connecting cables and wire runs shall be secured by mechanical clamps or nylon wire tie wraps. Stick on type clamps shall not be accepted.
- The Cabinet/Controller Unit (CU) and Opticom phase discriminator cards (minimum two) shall be Contractor furnished.
- The cabinet shall have a test panel mounted on inside of the door with momentary buttons.
- The test panel shall be equipped with LED lighting bars.
- The stop time toggle switch shall have three-way positions, auto, off and on. On shall be the momentary position.
- The cabinet shall have a feature so that CMU or CU can be replaced without the signal reverting to flash operation only when the door is open.
- The Cabinet foundation shall include all required anchor bolts and PVC conduit(s), as shown on plans, from cabinet to home run pull boxes.
- The cabinet shall be assembled and tested by the manufacturer or by the authorized representative to ensure proper component integration and operation.
- The exterior of the cabinet shall be powder coated (minimum two coats) Bel Tel Green
- The interior of the cabinet shall be powder coated gloss appliance white.
- The cabinet supplier or their authorized representative shall be available within 48 hours' notice to assist in locating and correcting any operational problems with the cabinets during County's test operation and providing turn-on technical support assistance.
- The entire cabinet assembly shall be warranted to be free from defects from workmanship and material for one from the date of shipment by the manufacturer.

trench. All the work involved in joint trench including, but not limited to, trench excavation and backfill of various width and depths, **restoration of concrete sidewalk, concrete curb and gutter, asphalt pavement and striping outside of project limits**, conduits of the various diameters, cables, transformer pads and vaults of various sizes and types, PG&E boxes, manholes, utility pull boxes, capacitor pads, all equipment pads, all risers of every type specified on the drawings, meter pedestals, meter pedestal pads, all telecom required equipment and applicable ground rods as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefore.

103-2 PG&E-APPROVED ELECTRIC AND GAS MATERIAL MANUFACTURERS

The work performed in connection with the joint trench shall conform to the provisions in Sections 103, “Joint Trench and Sanitary Sewer Facilities,” and this section 103-2 of these Special Provisions.

103-2.1 PG&E-Approved Electric Distribution Material Manufacturer

A. Section includes:

1. Greenbook Section 066211 Rev. #21: 07-01-16 PG&E-Approved Electric Distribution Material Manufacturers. This document provides a list of PG&E-approved manufactures of major materials for use in PG&E’s Electric Distribution.

B. PG&E-Approved Electric Distribution Material Manufacturers



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

Real Estate Services Division
525 Golden Gate Avenue, 10th Floor
San Francisco, CA 94102
T 415.487.5210

December 7, 2020

Via Email to: *jporter@smcgov.org and cchoi@smcgov.org*

County of San Mateo
Public Works Department
555 County Center, 5th Floor
Redwood City, CA 94063
Attn: Mr. Jim Porter, Public Works Director
and Mr. Carter Choi, Senior Civil Engineer

Subject: Request for Consent to install sidewalk improvements, hardscape improvements, and a utility crossing within portions of SFPUC Parcel Nos. 2066-1, 2066-2, and 2067 located along Middlefield Road, in the City of Redwood City, California.

Dear Mr. Porter and Mr. Choi:

The City and County of San Francisco (“**City**”), through the San Francisco Public Utilities Commission (“**SFPUC**”), owns the above-referenced real property (“**Property**”). City, through the SFPUC, and the County of San Mateo (“**San Mateo**”) are parties to that certain Final Order of Condemnation No. 88637, dated and recorded July 8th, 1960 in Volume 3822 at page 281 of the Official Records of the County of San Mateo as described in the attached Exhibit C, which granted easements on, over and across the Property to San Mateo for public uses as a county highway.

On behalf of San Mateo, you request City’s consent to the installation of sidewalk improvements, hardscape improvements, and utility crossings on the Property. In connection with your request, we hereby consent to San Mateo (“**Requesting Party**”) performing the work as further shown and described in the engineered drawings attached as Exhibit B (the “**Work**”), at the locations identified on attached Exhibit A (the “**Work Area**”) subject to, and conditioned strictly on, Requesting Party’s complying, and causing its contractor(s) engaged to perform all or part of the Work (singularly or collectively, “**Contractor**”), if any, to comply, with all the following terms and conditions:

1. Requesting Party shall pay all costs and fees associated with the Work.
2. City has no responsibility or liability of any kind with respect to any pipes, cables, conduits, or other facilities of utility companies or other

London N. Breed
Mayor

Sophie Maxwell
President

Anson Moran
Vice President

Tim Paulson
Commissioner

Ed Harrington
Commissioner

Michael Carlin
Acting
General Manager



County of San Mateo – Street Improvements

December 7, 2020

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third parties that may be on, in, or under the Work Area. Requesting Party shall be solely responsible to locate such utilities, City's facilities, and other existing facilities, protect them from damage, and pay for any damage caused by the activities of Requesting Party or its agents, contractors, or invitees on or about the Work Area.

3. The Work shall not interfere with, damage, or endanger City's pipelines or appurtenances in any way. If any portion of the Work Area or any of City's other real or personal property located on or about the Work Area is damaged by any of the activities of Requesting Party or its agents, contractors, or invitees, Requesting Party shall immediately notify City and shall repair, at Requesting Party's sole cost, all such damage and restore the Work Area and/or damaged City property to its previous condition; provided, however, at its sole discretion, City may elect to make any necessary repairs to City's facilities itself, at Requesting Party's sole cost, by notifying Requesting Party of such fact, in which event Requesting Party shall pay City the cost thereof within thirty (30) days after receipt of City's invoice.
4. Upon completion of the Work, Requesting Party shall cause all debris to be removed and the restoration of the Work Area and any other City property affected by the Work to its original condition to the satisfaction of City's construction inspector Mr. Albert Hao (the "**Construction Inspector**").
5. At its sole expense, Requesting Party shall conduct, and cause to be conducted, the Work and any other activities permitted by this consent in a safe and reasonable manner and in compliance with all applicable laws, rules, and regulations of any applicable governmental or other regulatory entity and applicable industry standards, and all requirements provided in the Easement (including, without limitation, restrictions on heavy equipment and vibrating compaction equipment). The Work shall include the removal and replacement of existing concrete sidewalk and the construction of other incidentals as described in Exhibit B.
6. The Work must commence within 180 days, and be completed within 365 days, after the effective date of this letter. All Work must be performed Monday through Friday between 8:00 a.m. and 5:00 p.m., excluding City holidays. Any Work performed at any other time must be approved by City in writing at least two (2) business days prior to the commencement of such Work. Requesting Party shall contact the

County of San Mateo – Street Improvements

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SFPUC's Millbrae Dispatch operator at (650) 872-5900 at least 24 hours prior to commencing the Work and again at the conclusion of the operations.

7. At least two (2) business days prior to the start of the Work, notification must be given to the Underground Service Alert (USA). Notification must also be given to the Construction Inspector, at (650) 871-3015 or by e-mail to ahao@sfgwater.org, not less than five (5) working days prior to the start of any Work on or about the Property. Requesting Party shall coordinate the construction schedule with the Construction Inspector to facilitate any inspections required by the Construction Inspector.
8. Where potholing is required to measure the depth of City's pipelines and related facilities, the method, location, and other details of such work shall be subject to the Construction Inspector's direction. The term "Work" includes such potholing. Potholing using the soft dig method (vacuum soil extraction system) is preferred. If Requesting Party wishes to use any other mechanical method such as digging with a backhoe, Requesting Party must submit a written request to City at least five (5) business days prior to the proposed commencement date of the Work and obtain SFPUC's prior written consent, which may be granted, conditioned, or refused at SFPUC's sole discretion. Notwithstanding the foregoing, the last two feet (2') of soil above the top of any City pipeline must be dug manually, without the use of any machines. Upon completion of Work, Requesting Party shall promptly notify City in writing of the depth of City's pipeline(s) and related facilities in the Work Area.
9. Upon completion of the Work, Requesting Party will provide as-built drawings of the Work, in a format acceptable to the SFPUC, to Ms. Tracy Leung, SFPUC Land Engineering, via e-mail at tleung@sfgwater.org and Mr. Christopher Wong, SFPUC Real Estate Services Division, via e-mail at cjwong@sfgwater.org.
10. Requesting Party shall procure at its expense and keep in effect, and cause its Contractor, if any, to procure, at its expense and keep in effect at all times during the course of the Work, commercially reasonable insurance, adequate to cover Requesting Party's obligations under this consent, and shall name as additional insured in the liability policies the City and County of San Francisco and its Public Utilities Commission, and their respective officers, agents, volunteers, and employees. Prior

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to commencement of the Work, and at City's request at any time, Requesting Party shall deliver to City certificates of insurance evidencing the insurance coverage required by this consent, together with complete copies of the policies at City's request. The minimum coverage of insurance shall be as follows: **(a)** General Liability Insurance with limits not less than \$5,000,000 each occurrence combined single limit for bodily injury and property damage, including coverage for contractual liability, independent contractors, explosion, collapse and underground (XCU), personal injury, broadform property damage, products and completed operations; **(b)** Automobile Liability Insurance not less than \$2,000,000 each occurrence combined single limit for bodily injury and property damage, including coverage for owned, non-owned, and hired automobiles, as applicable, if Requesting Party or its Contractor uses or causes to be used any vehicles in connection with its performance of the Work or use of the Property; and **(c)** workers' compensation insurance with employer's liability coverage of not less than \$1,000,000 each accident. The workers' compensation policy shall be endorsed with a waiver of subrogation in favor of City for all work performed by Requesting Party, its employees, agents, contractors, and subcontractors on or about the Property.

At all times during the course of the Work, Requesting Party shall maintain and keep in effect, and shall cause its Contractor to maintain and keep in effect, pollution legal liability, environmental remediation liability, and other environmental insurance, including coverage for bodily injury, sickness, disease, mental anguish, or shock sustained by any person, including death; Environmental Damages; property damage including, but not limited to, physical injury, to or destruction of tangible property including the resulting loss of use thereof, cleanup costs, and the loss of use of tangible property that has not been physically injured or destroyed; defense costs, charges and expenses incurred in the investigation, adjustment of defense claims for such compensatory damages; sudden and non-sudden pollution conditions including the discharge, dispersal, release, or escape of Hazardous Materials into or upon City's property, the atmosphere, or watercourse or body of water, which results in Environmental Damages; transportation coverage for the hauling of any Hazardous Materials by Requesting Party or Requesting Party's Contractor or agents from the Work Area to the final disposal location; and first party environmental remediation that pays for the cost of cleanup and remediation of the Work Area required to comply with all Applicable Laws. Such insurance shall be endorsed to provide third-party disposal site coverage that covers third-party bodily injury, property damage, and cleanup coverage for pollution conditions

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December 7, 2020

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emanating from a disposal site or landfill used by the Requesting Party or Requesting Party's agents. Requesting Party shall maintain limits no less than \$1,000,000 combined single limit for bodily injury and property damage. City and its officers, commissioners, agents, volunteers, and employees shall be included as additional insureds on the policy as loss payees under the pollution legal liability/environmental remediation/cleanup liability insurance policy.

Should any of the required insurance (other than pollution legal liability insurance) be provided under a form of coverage that includes a general annual aggregate limit or provides that claims investigation or legal defense costs be included in such general annual aggregate limit, such general annual aggregate limit shall double the occurrence or claims limits specified above.

At all times, all policies shall be in form and content, and with coverage types and amounts, satisfactory to City's Risk Manager, and shall remain subject to City's periodic review of limits and types of insurance to be carried. All required liability insurance shall specify that such policies are primary insurance to any other insurance available to the additional insureds, with respect to any claims arising out of the Work and that the insurance applies separately to each insured against whom claim is made or suit is brought. All policies shall be endorsed to require at least thirty (30) days' prior written notice to City of cancellation or intended non-renewal. Insurance companies shall be legally authorized to engage in the business of furnishing insurance in the State of California. All insurance companies shall have a current A.M. Best Rating no less than "A-, VIII" and shall be satisfactory to City. If Requesting Party or its Contractor fails to procure such insurance, or to deliver such policies or certificates, City may procure, at its option, the same for the account of Requesting Party, and the resulting cost shall be paid to City by Requesting Party within five (5) days after delivery to Requesting Party of bills for such costs.

Requesting Party shall have the right to self-insure with respect to any of the insurance required under this consent, to the extent permitted by applicable law. If Requesting Party elects to self-insure, Requesting Party shall submit to SFPUC a certificate of self-insurance signed by a duly authorized representative of Requesting Party, such certificate evidencing that Requesting Party's self-insurance program is adequately funded, in full force and effect, and in compliance with and subject to all the terms, agreements, covenants, conditions and provisions of this consent, and shall give City prompt written notice of any significant change in or the depletion of its self-insurance fund.

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December 7, 2020

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Notwithstanding the foregoing, Requesting Party remains responsible for causing its Contractor and any of its subcontractors and/or agents to maintain commercially reasonable insurance coverages and coverage limits as required under this consent.

11. By its acceptance of this letter and its signature below, Requesting Party hereby agrees to indemnify and hold harmless City, its Public Utilities Commission, and their respective officers, agents, employees, contractors, and volunteers (together, the “**Indemnified Parties**”) against all demands, claims, legal or administrative proceedings, losses, costs, penalties, fines, liens, judgments, damages, and liabilities of any kind (“**Claims**”) arising out of, or that may be alleged to have arisen out of, any act or omission of Requesting Party or its Contractor, employees, representatives, invitees, or agents, in connection with this consent, the Work, and/or the Requesting Party’s use of the Work Area and/or any other City property affected by the Work except to the extent the Claims result from the gross negligence or willful misconduct of City or City’s authorized representatives. The term “Claims” shall include, without limitation, liabilities resulting from environmental pollution, to the extent caused or exacerbated by any act or omission of Requesting Party or its employees, contractors, representatives, invitees, or agents, and environmental remediation and disposal costs. Requesting Party shall defend City and the other Indemnified Parties against all Claims and pay all charges of attorneys and all other costs and expenses arising therefore or incurred in connection therewith; and if any judgment be rendered against City or any of the other Indemnified Parties, Requesting Party shall satisfy and discharge same immediately, at its expense.

12. Neither City nor any of its commissions, boards, officers, agents, or employees shall be liable for any damage to, or for any bodily injury or death resulting or arising from the condition of the Property or its use by Requesting Party. Without limiting any indemnification contained in this consent, Requesting Party fully RELEASES, WAIVES, AND DISCHARGES forever all Claims relating to this consent, the Work, the Work Area, and/or any other City property affected by the Work, and covenants not to sue City, its departments, commissions, officers, and employees, and all persons acting through them, under any present or future laws. Requesting Party acknowledges that the above release includes all Claims, known and unknown, direct and indirect, and anticipated and unanticipated.

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13. Requesting Party accepts the Property in its “AS IS” condition, and acknowledges and agrees that neither City nor any of its employees, representatives, or agents have made, and City hereby disclaims, any representations or warranties, express or implied, concerning the Property.

14. The obligations contained in this consent shall survive any termination of this consent and the performance of the Work. This consent is revocable, nonpossessory, nonexclusive, and personal to Requesting Party and shall not be assigned or otherwise transferred by Requesting Party under any circumstances. City may freely revoke this consent at any time without cause and without any liability to the Requesting Party. This consent does not constitute a license or grant by City of any new ownership, leasehold, easement, or other property interest or estate whatsoever in any portion of the Property. Nothing in this consent grants or creates any franchise rights pursuant to any federal, state, or local laws, or diminishes the scope, nature, or priority of City’s rights in the Property.

This consent may be signed in counterparts. This consent will be considered signed when an original counterpart of the consent, signed by an authorized signing officer of the signing party, is delivered to the other party, or an electronic copy of such signed counterpart is delivered to the other party in an Adobe.pdf file by email transmission to Christopher Wong at cjwong@sfgwater.org. Such electronic copy shall be treated in all respects as having the same effect as an original copy.

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December 7, 2020
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Please contact Christopher Wong at (415) 310-0739 with any questions.

Sincerely,

DocuSigned by:

Rosanna Russell

C593681F86114BB...

Rosanna S. Russell
Real Estate Director

12/07/2020 | 2:39:21 PM PST

AGREED TO AND ACCEPTED this ____ day of _____, 2020.

REQUESTING PARTY:

County of San Mateo,
a political subdivision of the State of California

By:

DocuSigned by:

Jim Porter

ED6132A358A945F...

Jim Porter, Public Works Director

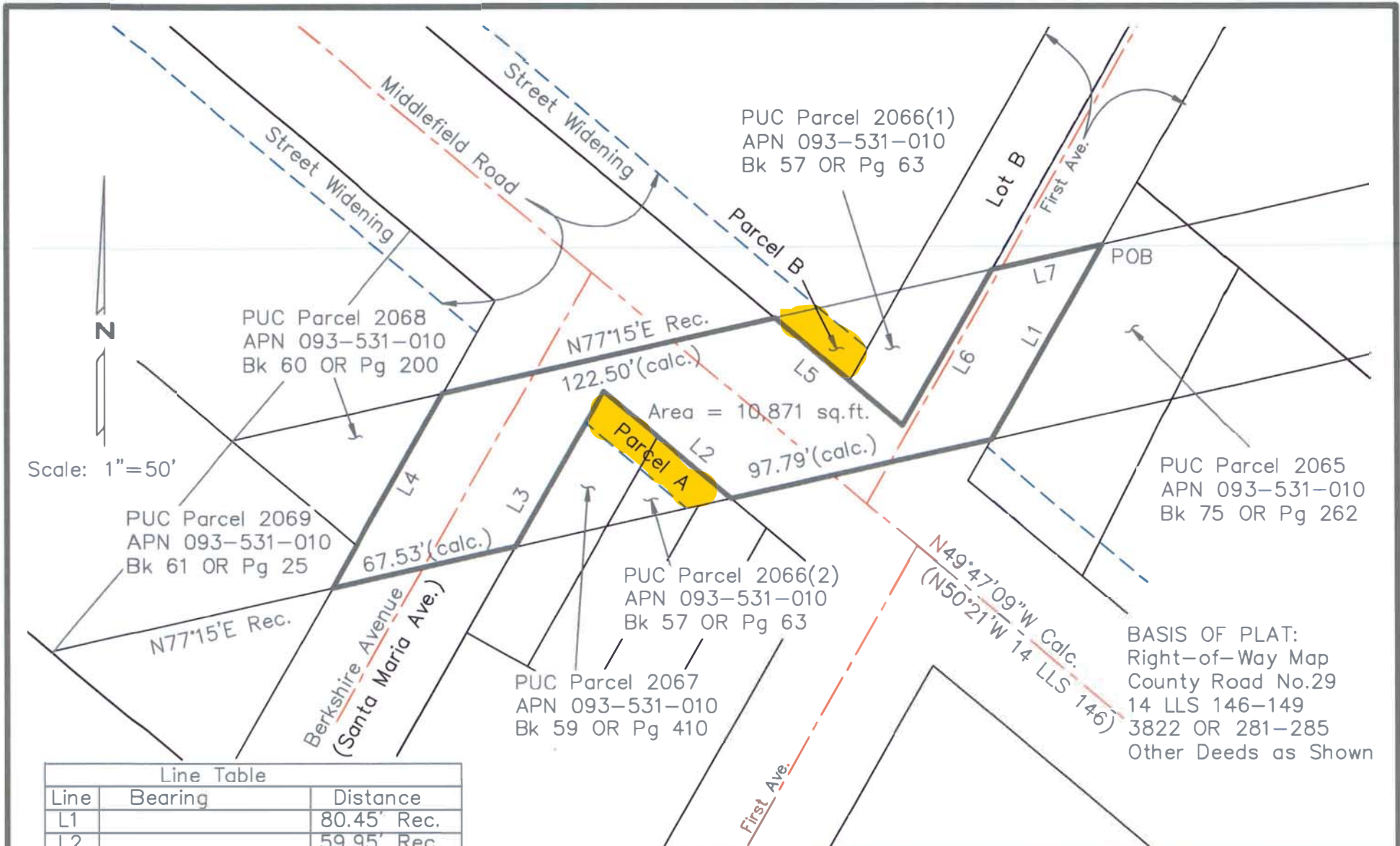
Attachments: **Exhibit A** (Work Area)
Exhibit B (Engineered Drawings)
Exhibit C (SMCO Easement)

cc: Gilles Tourel, San Mateo County
Carter Choi, San Mateo County
Ann Stillman, San Mateo County
Casey Rando, SFPUC – NRLMD
Emily Read, SFPUC – NRLMD
Albert Hao, SFPUC – Water, Supply, and Treatment Division
Tracy Leung, SFPUC – Water, Supply, and Treatment Division
Consent Letter File

EXHIBIT A

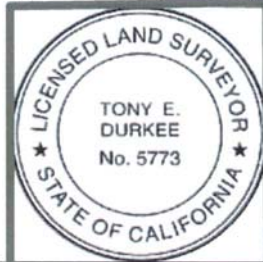
Work Area

[attached]



Scale: 1"=50'

| Line Table | | |
|------------|------------------|--------------|
| Line | Bearing | Distance |
| L1 | | 80.45' Rec. |
| L2 | | 59.95' Rec. |
| L3 | | 63.85' Rec. |
| L4 | | 64.15' Rec. |
| L5 | | 59.94' Rec. |
| L6 | | 63.85' Rec. |
| L7 | N77°15'00"E Rec. | 42.52' Calc. |



City and County of San Francisco
 Public Utilities Commission
 Real Estate Services

1st and Middlefield Road Crossing

North Fair Oaks San Mateo County

EXHIBIT B

**Engineered Drawings
(Project Plan Sheets dated
10/16/2020)**

EXHIBIT C

SMCO Easement

[attached]

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KEITH C. SORENSON
District Attorney
By JAMES M. PARMICEE, Deputy
Hall of Justice & Records
Redwood City, California
Telephone: Emerson 9-1441

Attorneys for Plaintiff

(ENDORSED)
FILED
JUL 8 1960
JOHN A. BRUNING, Clerk
By REIS B. WERT
DEPUTY CLERK

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF SAN MATEO

COUNTY OF SAN MATEO, a political
subdivision of the State of
California,

Plaintiff,

vs.

SOUTHERN PACIFIC COMPANY, et al.,

Defendants.

NO. 88637

FINAL ORDER OF CONDEMNATION

WHEREAS, on the 8th day of July, 1960, this
Court made and granted an Interlocutory Decree in Condemnation
herein, ordering and adjudging that plaintiff is entitled to a
judgment and decree in condemnation, as prayed for in its complaint
against the defendant, City and County of San Francisco, and ease-
ments in the real property described as Parcels 4(a) and 4(b) in
the complaint on file herein and upon payment to said defendant
of the total sum of NINE HUNDRED NINETY-FOUR DOLLARS (\$994.00) ^{to wit:} the
sum of SIX HUNDRED FORTY-FOUR DOLLARS (\$644.00) for an easement
in said Parcel No. 4(a) and the sum of THREE HUNDRED FIFTY DOLLARS
(\$350.00) for an easement in said Parcel No. 4(b);

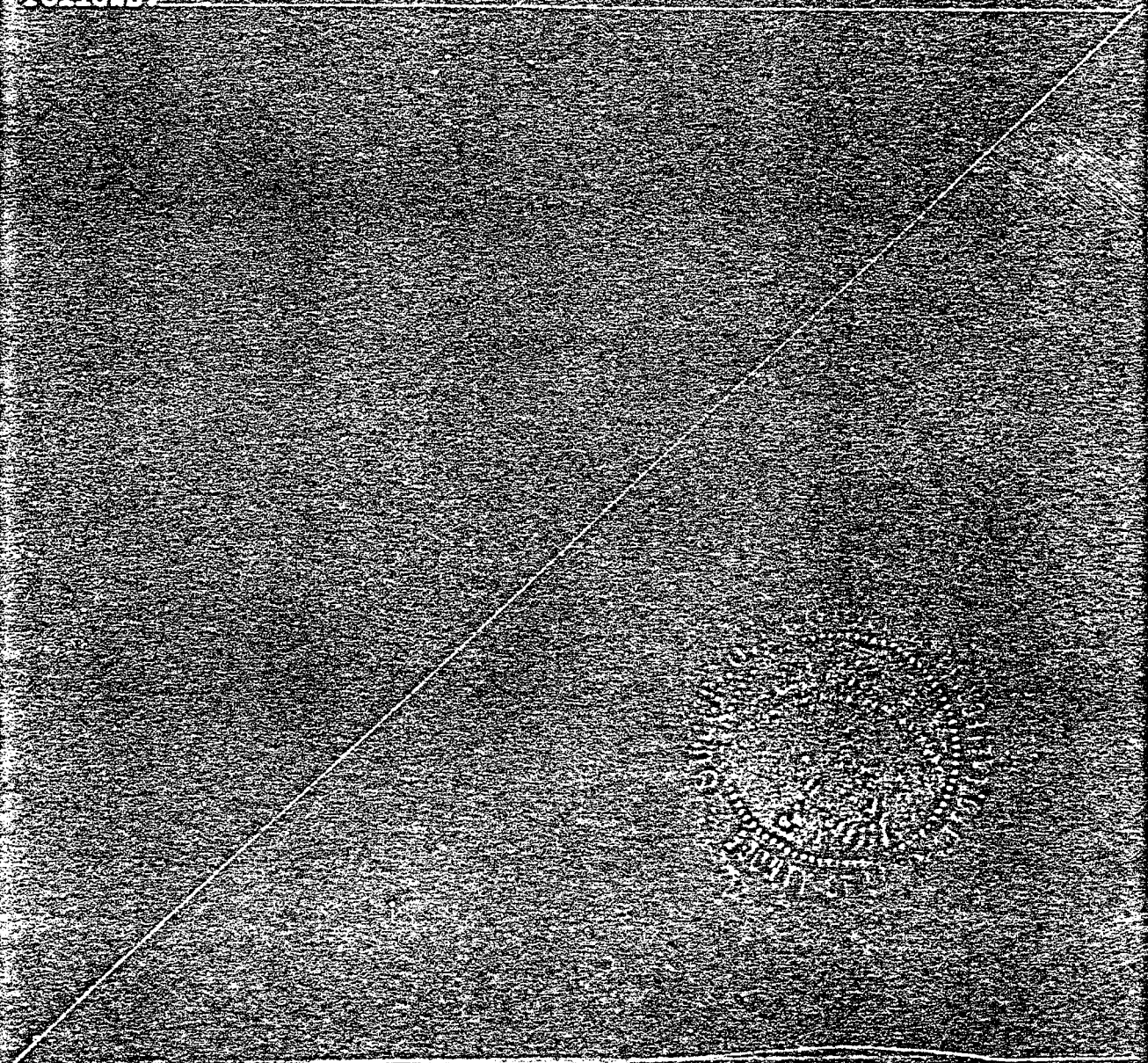
WHEREAS, in accordance with said judgment plaintiff has paid

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into court, for the benefit of said defendant, CITY AND COUNTY OF
SAN FRANCISCO, the total sum of NINE HUNDRED NINETY-FOUR DOLLARS
(\$994.00) for said defendant.

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED
that an easement in Parcel 4(a) of said real property, and an ease-
ment in Parcel 4(b) of said real property be, and they are hereby
condemned to plaintiff in fee for the public uses and purposes
set forth in said complaint, to wit: for county highway purposes,
which parcels of real property are more particularly described as
follows:



PARCEL 4 (G)

All that certain piece or parcel of real property, being a portion of Lots 1, 2 and 3, Block 22, as shown on that certain map entitled, "PLAT OF DUMBARTON", recorded September 28, 1907, in Volume 5 of Maps, at Page 32, San Mateo County Records, more particularly described as follows:

BEGINNING at a point which is the northerly corner of said Lot 1; thence from said point of beginning along the northeasterly line of said Lots 1, 2 and 3, South 50° 21' East 59.95 feet, to a point in said northeasterly line of Lot 3; thence South 77° 05' 22" West 16.37 feet, more or less, to a point distant South 39° 39' West 73.00 feet from the center line as established by survey made in 1958 for the improvement of Middlefield Road, San Mateo County Road No. 29-B; thence along a line parallel with said center line and distant 73.00 feet (measured at right angles) from said center line of Middlefield Road, North 50° 21' West 77.53 feet to the northeasterly line of said Lot 1; thence along the last mentioned line, North 28° 57' East 13.22 feet, more or less, to the point of beginning.

All bearings are based on San Mateo County Survey Meridian.

PARCEL 7 (b)

All that certain piece or parcel of real property, being a portion of Lot 22, Block 27, as shown on that certain map entitled, "PLAT OF DUMBARTON", recorded September 28, 1907, in Volume 5, of Maps, at Page 32, San Mateo County Records, more particularly described as follows:

BEGINNING at a point which is the most southerly corner of said Lot 22; thence from said point of beginning along the southwesterly line of said Lot 22, North $50^{\circ} 21'$ West 34.49 feet, to a point in said southwesterly line of Lot 22; thence North $76^{\circ} 58' 49''$, East 16.37 feet, to a point distant North $90^{\circ} 39'$ East 43.00 feet from the center line as established by survey made in 1958 for the improvement of Middlefield Road, San Mateo County Road No. 29-B; thence along a line parallel with said center line and distant 43.00 feet, (measured at right angles) from said center line of Middlefield Road, South $50^{\circ} 21'$ East 22.10 feet to the southeasterly line of Lot 22; thence along the last mentioned line, South $28^{\circ} 50'$, West 13.23 feet, to the point of beginning.

All bearings are based on San Mateo County Survey Meridian.

Handwritten notes:
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IT IS FURTHER ORDERED, ADJUDGED AND DECREED that said sum of NINE HUNDRED NINETY-FOUR DOLLARS (\$994.00) so deposited with this Court as aforesaid be paid forthwith to said defendant, CITY AND COUNTY OF SAN FRANCISCO.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that the grade of the road as it affects the cover over said defendants' water transmission mains and the grade of all utilities crossing the road easements, shall first be approved by the San Francisco Water Department.

IT IS FURTHER ORDERED that a copy of this order be filed in the office of the County Recorder of the County of San Mateo, the County in which said real property is located, and thereupon said easements in said real property above stated shall vest in plaintiff.

Dated this 8th day of July, 1960.

A. R. COTTON

JUDGE OF THE SUPERIOR COURT

STATE OF CALIFORNIA
COUNTY OF SAN MATEO
I, JOHN A. BRUNING, County Clerk of the above and said County, and ex-officio Clerk of the Superior Court thereof, do hereby certify that the foregoing is a full, true and correct copy of the original in file in my office and that I have carefully compared the same with the original.
Witness my hand and seal of said Superior Court at San Mateo City of San Mateo, California, this 8th day of July, 1960.
JOHN A. BRUNING
County Clerk and Ex-officio Clerk Superior Court

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697995

RECORDED AT REQUEST OF

Keith C. Sullivan, District Attorney

JUL 8 9 37 AM 1960

OFFICIAL RECORDING
SAN MATEO COUNTY
Rec. Room
RECORDED

PROPOSAL TO THE COUNTY OF SAN MATEO

MIDDLEFIELD ROAD IMPROVEMENT PROJECT

IN THE NORTH FAIR OAKS AREA

IN SAN MATEO COUNTY

A BID IS REQUIRED FOR THE ENTIRE WORK DESCRIBED HEREIN FOR SCHEDULE A AND SCHEDULE B. THE AWARD OF CONTRACT, IF AWARDED, WILL BE MADE ON THE BASIS OF THE LOWEST SUM TOTAL OF BOTH SCHEDULE A AND SCHEDULE B.

SCHEDULE A (EXCLUDES JOINT TRENCH):

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 1 | 10 | 1 | LS | Construction Waste Management | \$ | \$ |
| 2 | 11 | 1 | LS | Mobilization | \$ | \$ |
| 3 | 11-3 | 1 | LS | Water Pollution Control | \$ | \$ |
| 4 | 12 | 1 | LS | Maintaining Traffic | \$ | \$ |
| 5 | 12-2 | 1 | LS | Temporary Pavement Delineation | \$ | \$ |
| 6 | 15-2 | 14,810 | LF | Sawcut Asphalt Concrete and Portland Cement Concrete | \$ | \$ |
| 7A | 15-3 | 6 | EA | Adjust Storm Drain Manholes to Grade | \$ | \$ |
| 7B | 15-3 | 19 | EA | Adjust Telecom Manholes to Grade | \$ | \$ |
| 8A | 15-4 | 1 | EA | Reconstruct Storm Drain Manholes to Grade | \$ | \$ |
| 8B | 15-4 | 1 | EA | Reconstruct Telecom Manhole to Grade | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 9 | 15-5 | 39 | EA | Adjust Water Valve Box to Grade (Cal Water) | \$ | \$ |
| 10 | 15-6 | 48 | EA | Adjust Water Meter Box to Grade (Cal Water) | \$ | \$ |
| 11 | 15-7 | 15 | EA | Adjust Monument Box Cover to Grade | \$ | \$ |
| 12 | 15-8 | 4,000 | SY | Remove Portland Cement Concrete Pavement | \$ | \$ |
| 13 | 15-9 | 50 | EA | Pothole and Protect Existing Utilities | \$ | \$ |
| 14 | 15-10 | 2 | EA | Temporary Relocation and Reinstallation of United States Postal Service Mailboxes | \$ | \$ |
| 15 | 15-11 | 2 | EA | Remove Telephones | \$ | \$ |
| 16 | 15-12 | 110 | EA | Adjust Sanitary Sewer Cleanout Box to Grade | \$ | \$ |
| 17 | 15-13 | 1 | EA | Adjust PG&E Utility Vault to Grade | \$ | \$ |
| 18 | 15-14 | 1 | LS | Relocation Of Health Clinic Existing Fire Hydrant, Fire Department Connection And Sign And Regrading And Replanting Of Bioretention Area | \$ | \$ |
| 19 | 15-15 | 5 | EA | Adjust Existing Gas Valve to Grade | \$ | \$ |
| 20 | 15-16 | 16 | EA | Adjust Pull Boxes | \$ | \$ |
| 21 | 15-17 | 1 | EA | Relocate Pull Boxes | \$ | \$ |
| 22 | 15-18 | 1 | EA | Protect Bollard | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 23 | 15-19 | 1 | EA | Adjust Existing Monitoring Well to Grade | \$ | \$ |
| 24 | 15-20 | 4 | EA | Remove Existing Pedestrian Signals | \$ | \$ |
| 25 | 15-21 | 1 | LS | Remove Concrete Curbs, Gutters, Sidewalks, Driveway Openings, Sidewalk Access Ramps, Valley Gutters and Medians | \$ | \$ |
| 26 | 15-22 | <u>21,790</u> | SY | Remove Asphalt Concrete Paving, Pavement Fabric, Aggregate Base | \$ | \$ |
| 27 | 16 | 1 | LS | Clearing and Grubbing | \$ | \$ |
| 28 | 16-1 | 1 | EA | Remove Trees | \$ | \$ |
| 29 | 17 | 1 | LS | Develop and Apply Water | \$ | \$ |
| 30 | 19-1 | <u>10,066</u> | CY | Roadway Excavation | \$ | \$ |
| 31 | 20 | 1 | LS | Erosion and Sediment Control | \$ | \$ |
| 32 | 25 | 60 | CY | Aggregate Subbase (Class 4) | \$ | \$ |
| 33 | 26 | <u>4,386</u> | CY | <u>Aggregate Base (Class 2)</u> | \$ | \$ |
| 34 | 36 | 34 | EA | Drainage Inlet Marker | \$ | \$ |
| 35 | 37-2 | 1 | EA | <u>Remove and</u> Relocate Existing Drainage Inlet | \$ | \$ |
| 36 | 37-2 | 2 | EA | Install New Drainage Inlet | \$ | \$ |
| 37 | 37-3 | 13 | EA | Clean and Inspect Existing Drainage Inlet | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 38 | 39-1 | <u>8,102</u> | TON | Asphalt Concrete (Type B, 1/2" Maximum, Medium grading) | \$ | \$ |
| 39 | 39-3 | 114 | SY | Place Asphalt Concrete (Miscellaneous Areas) | \$ | \$ |
| 40 | 39-4 | <u>11,204</u> | SY | Plane Asphalt Concrete Pavement (Full Width) | \$ | \$ |
| 41 | 40 | 3,000 | SF | Portland Cement Concrete Pavement (Bus Pads) | \$ | \$ |
| 42 | 51-2 | <u>101</u> | CY | Class 2 Concrete (Minor Structures) | \$ | \$ |
| 43 | 51-3 | 860 | CY | Class 3 Concrete | \$ | \$ |
| 44 | 51-4 | 30 | EA | Sidewalk Access Ramps (Case A) | \$ | \$ |
| 45 | 51-4 | 1 | EA | Sidewalk Access Ramps (Case B with Retaining Curb) | \$ | \$ |
| 46 | 51-4 | 2 | EA | Sidewalk Access Ramps (Case C with Retaining Curb) | \$ | \$ |
| 47 | 51-4 | 6 | EA | Sidewalk Access Ramps (Case C without Retaining Curb) | \$ | \$ |
| 48 | 51-4 | 2 | EA | Sidewalk Access Ramps (Case F) | \$ | \$ |
| 49 | 51-6 (S) | 400 | LF | Red Curb Painting at No Parking Zones | \$ | \$ |
| 50 | 56-1 | 40 | EA | Install New Roadside Signs | \$ | \$ |
| 51 | 56-2 | 75 | EA | Remove and Reset Existing Roadside Signs | \$ | \$ |
| 52 | 68-3 | 160 | LF | PVC Underdrains | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 53 | 68-5 | 600 | LF | Sidewalk Underdrains (Ductile Iron) | \$ | \$ |
| 54 | 75 (F) | 2,850 | LBS | Miscellaneous Iron and Steel | \$ | \$ |
| 55 | 81 (S) | 14 | EA | Survey Monument | \$ | \$ |
| 56 | 84-3 (S) | 14,000 | SF | Thermoplastic Pavement Marking (Crosswalks and Legends) | \$ | \$ |
| 57 | 84-3 (S) | 22,000 | LF | Thermoplastic Striping (by color) | \$ | \$ |
| 58 | 85 (S) | 81 | EA | Pavement Markers, Type D (Two-way, Yellow, Retroreflective) | \$ | \$ |
| 59 | 85 (S) | 54 | EA | Pavement Markers, Type G (Two-way, Yellow, Retroreflective) | \$ | \$ |
| 60 | 85 (S) | 8 | EA | Pavement Markers, Hydrant Marker (Blue Reflective) | \$ | \$ |
| 61 | 86-2 (S) | 15 | EA | Install New Traffic Signal | \$ | \$ |
| 62 | 86-2A (S) | 1 | EA | Modify Existing Traffic Signal (at 5th Ave) | \$ | \$ |
| 63 | 86-3 (S) | 45 | EA | Traffic Loop Detectors (Type E) | \$ | \$ |
| 64 | 86-3 (S) | 14 | EA | Traffic Loop Detectors (Type D) | \$ | \$ |
| 65 | 86-26 (S) | 1 | LS | Solar Powered Beacon and Sign Systems | \$ | \$ |
| 66 | 86-27 (S) | 41 | EA | Streetlights – Street | \$ | \$ |
| 67 | 86-27 (S) | 28 | EA | Streetlights – Pedestrian | \$ | \$ |
| 68 | 86-27 (S) | 65 | EA | Streetlight Pull Box | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|--------------------|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 69 | 100 (S) | 1 | LS | Construction Staking | \$ | \$ |
| 70 | 101 | 1 | LS | Temporary Fence | \$ | \$ |
| 71 | 103-1.3 (S) | 1 | LS | Holiday Lights | \$ | \$ |
| 72 | 103-1.3 | 1 | LS | Wifi Systems | \$ | \$ |
| 73 | 103-3.1 | 1 | LS | Closed Circuit Television (CCTV) Inspection of Sanitary Sewer Lines | \$ | \$ |
| 74 | 103-3.3 | 28 | EA | Remove and Replace Existing Sanitary Sewer Manhole | \$ | \$ |
| 75 | 103-3.3 | 2 | EA | Remove and Relocate Sanitary Sewer Manhole | \$ | \$ |
| 76 | 103-3.7 | 60 | LF | <u>Sanitary Sewer Lateral Repair</u> | \$ | \$ |
| 77 | 105-3 | 1 | LS | Trench Safety | \$ | \$ |
| 78 | 106-2 | 6,155 | LF | Pipe Replacement (Open Trench) - 8" PVC Pipeline | \$ | \$ |
| 79 | 106-2 | 425 | LF | Pipe Replacement (Open Trench) - 24" PVC Pipeline | \$ | \$ |
| 80 | 106-3 | 181 | EA | Reconnect Sanitary Sewer Lateral (Open-Trench Method) | \$ | \$ |
| 81 | 108 | 132 | EA | Utility Line Crossings | \$ | \$ |
| 82 | 108-1 | 1 | LS | San Francisco (Hetch Hetchy) Water Transmission Line Crossings | \$ | \$ |
| 83 | 113 (S) | 450 | LF | Jack and Bore Crossing #1 (Middlefield Road): One 36", <u>one 30" and one 24"</u> Steel Casings (150 LF Each) | \$ | \$ |

PROPOSAL (SCHEDULE A) – Continued on Next Page

PROPOSAL (SCHEDULE A) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------------------|--------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 84 | 113 (S) | 180 | LF | Jack and Bore Crossing #2 (Redwood Junction): <u>One 10” and one 18” Steel Casing (90 LF Each)</u> | \$ | \$ |
| 85 | 113 (S) | 150 | LF | Jack and Bore Crossing #3 (Sanitary Sewer): One 16” Steel Casing | \$ | \$ |
| 86 | 114-1(S) | 1 | LS | Irrigation System | \$ | \$ |
| 87 | 114-2.3.7 (S) | 61 | EA | 48” Boxed Trees | \$ | \$ |
| 88 | 114-2.3.7 (S) | 5 | EA | 36” Boxed Trees | \$ | \$ |
| 89 | 114-2.3.7 (S) | 820 | EA | Canned Shrubs/Vines (1-Gallon) | \$ | \$ |
| 90 | 114-2.3.7 (S) | 144 | EA | Canned Shrubs/Vines (5-Gallon) | \$ | \$ |
| 91 | 114-3.2.1 | 18 | EA | Benches | \$ | \$ |
| 92 | 114-3.2.1 | 2 | EA | Special Bulb-Out Seatwall | \$ | \$ |
| 93 | 114-3.2.2 | 13 | EA | Bike Rack | \$ | \$ |
| 94 | 114-3.2.3 | 12 | EA | Trash and Recycle Receptacle | \$ | \$ |
| 95 | 114-3.2.4 | 66 | EA | Tree Grate (48"x72") | \$ | \$ |
| 96 | 114-3.2.5 | 300 | SF | Special Bulb-Out Paving | \$ | \$ |
| 97 | 114-4 | 1 | LS | Tree Protection | \$ | \$ |
| 98 | 115-2 | 908 | SF | Bioretention Concrete Walls Reinforcing | \$ | \$ |
| 99 | 115-3 | 1,590 | LF | Bioretention Collection and Discharge Piping and Structures | \$ | \$ |
| 100 | 115-4 | 300 | CY | Bioretention Basin Fill Material | \$ | \$ |
| SCHEDULE A SUB-TOTAL | | | | | | \$ |

NOTES:

- (1) (F) Final Pay Quantities – See Section 9-1.015, “Final Pay Items,” of the Standard Specifications.
- (2) (S) Specialty Items – As defined in Section 8-1.01, “Subcontracting,” of the Standard Specifications.
- (3) Gaps in section numbering, above, indicate the Section is blank or does not apply.

SCHEDULE B (JOINT TRENCH):

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|----------------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 1 | 10 | 1 | LS | Construction Waste Management | \$ | \$ |
| 2 | 11 | 1 | LS | Mobilization | \$ | \$ |
| 3 | 11-3 | 1 | LS | Water Pollution Control | \$ | \$ |
| 4 | 12 | 1 | LS | Maintaining Traffic | \$ | \$ |
| 5 | 15-2 | 26,675 | LF | Sawcut Asphalt Concrete and Portland Cement Concrete | \$ | \$ |
| 6 | 103-1 <u>(S)</u> | <u>6</u> | EA | Electric Utility box - 4'6" x 8'6" x 6' #7-Box | \$ | \$ |
| 7 | 103-1 <u>(S)</u> | 8 | EA | Electric Utility box - 54" x 102" x 72" #7TR Box | \$ | \$ |
| 8 | 103-1 <u>(S)</u> | 1 | EA | Electric Utility box - 54" x 102" x 72" #7S Box | \$ | \$ |
| 9 | 103-1 <u>(S)</u> | 6 | EA | Electric Utility box - 54" x 78" x 60" #6S Box | \$ | \$ |
| 10 | 103-1 <u>(S)</u> | 1 | EA | Electric Utility box - 54" x 78" x 60" #6J Box | \$ | \$ |
| 11 | 103-1 <u>(S)</u> | 2 | EA | Electric Utility box - 54" x 78" x 60" #6I Box | \$ | \$ |
| <u>11A</u> | <u>103-1</u> <u>(S)</u> | <u>1</u> | <u>EA</u> | <u>Electric Utility box – 36" x 60" x 30" #5 Box</u> | <u>\$</u> | <u>\$</u> |
| <u>11B</u> | <u>103-1</u> <u>(S)</u> | <u>1</u> | <u>EA</u> | <u>Electric Utility box – 36" x 60" x 54" #5S Splice Box</u> | <u>\$</u> | <u>\$</u> |
| 12 | 103-1 <u>(S)</u> | <u>17</u> | EA | Electric Utility box - 24" x 36" x <u>36"</u> #3F Splice Box Full Traffic | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|----------------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 13 | 103-1 <u>(S)</u> | <u>14</u> | EA | Electric Utility box - 24" x 36" x <u>26"</u> #3 Splice Box | \$ | \$ |
| 14 | 103-1 <u>(S)</u> | 4 | EA | Electric Utility box - <u>24" x 36" x 26"</u> #2-Box | \$ | \$ |
| <u>14A</u> | <u>103-1</u> <u>(S)</u> | <u>1</u> | <u>EA</u> | <u>Electric Utility box – 17" x 36" x 30" #2F Box</u> | <u>\$</u> | <u>\$</u> |
| <u>14B</u> | <u>103-1</u> <u>(S)</u> | <u>2</u> | <u>EA</u> | <u>Electric Utility box – 17" x 30" x 30" #2F Box</u> | <u>\$</u> | <u>\$</u> |
| 15 | 103-1 <u>(S)</u> | 7 | EA | Telephone Utility box - 48" x 78" x 48" T8-Box | \$ | \$ |
| 16 | 103-1 <u>(S)</u> | 7 | EA | Telephone Utility box - 30" x 48" x 36" T4-Box | \$ | \$ |
| 17 | 103-1 <u>(S)</u> | 9 | EA | Telephone Utility box - 17" x 30" x 24" T3-Box | \$ | \$ |
| 18 | 103-1 <u>(S)</u> | 13 | EA | Fiber Utility box - 30" x 48" x 24" B-48 Box | \$ | \$ |
| 19 | 103-1 <u>(S)</u> | 21 | EA | Fiber Utility box - 24" x 36" x 14" B-40 Box | \$ | \$ |
| 20 | 103-1 <u>(S)</u> | 33 | EA | CATV Utility Box - 20" x 42" x 24" B-44 Box | \$ | \$ |
| 21 | 103-1 <u>(S)</u> | 2 | EA | Telephone Utility box - 30" x 60" x 36" T2-Box | \$ | \$ |
| 22 | 103-1 <u>(S)</u> | 392 | LF | Utility Trench Section D - 24x60 | \$ | \$ |
| 23 | 103-1 <u>(S)</u> | 25 | LF | Utility Trench Section D1 - 36x60 | \$ | \$ |
| 24 | 103-1 <u>(S)</u> | 90 | LF | Utility Trench Section D2 - 24x53 | \$ | \$ |
| 25 | 103-1 <u>(S)</u> | 46 | LF | Utility Trench Section D3 - 42x63 | \$ | \$ |
| 26 | 103-1 <u>(S)</u> | 19 | LF | Utility Trench Section D4 - 42x63 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|---------------------|---------------------------|------------------------|------------------------------------|--------------------------------|---------------------------|
| 27 | 103-1 (S) | 332 | LF | Utility Trench Section D5 - 24x58 | \$ | \$ |
| 28 | 103-1 (S) | 45 | LF | Utility Trench Section D6 - 36x58 | \$ | \$ |
| 29 | 103-1 (S) | 30 | LF | Utility Trench Section D7 - 36x64 | \$ | \$ |
| 30 | 103-1 (S) | 22 | LF | Utility Trench Section D8 - 42x62 | \$ | \$ |
| 31 | 103-1 (S) | 17 | LF | Utility Trench Section D9 - 36x65 | \$ | \$ |
| 32 | 103-1 (S) | 133 | LF | Utility Trench Section D10 - 18x56 | \$ | \$ |
| 33 | 103-1 (S) | 15 | LF | Utility Trench Section D11 - 36x65 | \$ | \$ |
| 34 | 103-1 (S) | 58 | LF | Utility Trench Section D14 - 42x62 | \$ | \$ |
| 35 | 103-1 (S) | 116 | LF | Utility Trench Section D15 - 42x62 | \$ | \$ |
| 36 | 103-1 (S) | 24 | LF | Utility Trench Section D16 - 18x52 | \$ | \$ |
| 37 | 103-1 (S) | 93 | LF | Utility Trench Section D17 - 30x65 | \$ | \$ |
| 38 | 103-1 (S) | 230 | LF | Utility Trench Section D18 - 36x60 | \$ | \$ |
| 39 | 103-1 (S) | 67 | LF | Utility Trench Section D19 - 42x62 | \$ | \$ |
| 40 | 103-1 (S) | 95 | LF | Utility Trench Section D20 - 24x60 | \$ | \$ |
| 41 | 103-1 (S) | 35 | LF | Utility Trench Section D21 - 30x58 | \$ | \$ |
| 42 | 103-1 (S) | 16 | LF | Utility Trench Section D22 - 30x60 | \$ | \$ |
| 43 | 103-1 (S) | 67 | LF | Utility Trench Section D23 - 30x63 | \$ | \$ |
| 44 | 103-1 (S) | 431 | LF | Utility Trench Section D24 - 24x56 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|---------------------|---------------------------|------------------------|------------------------------------|--------------------------------|---------------------------|
| 45 | 103-1 <u>(S)</u> | 198 | LF | Utility Trench Section D25 - 36x64 | \$ | \$ |
| 46 | 103-1 <u>(S)</u> | 14 | LF | Utility Trench Section D26 - 30x60 | \$ | \$ |
| 47 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section D28 - 30x58 | \$ | \$ |
| 48 | 103-1 <u>(S)</u> | 63 | LF | Utility Trench Section D29 - 42x63 | \$ | \$ |
| 49 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section D30 - 30x58 | \$ | \$ |
| 50 | 103-1 <u>(S)</u> | 83 | LF | Utility Trench Section D31 - 24x55 | \$ | \$ |
| 51 | 103-1 <u>(S)</u> | 135 | LF | Utility Trench Section D32 - 30x60 | \$ | \$ |
| 52 | 103-1 <u>(S)</u> | 67 | LF | Utility Trench Section D33 - 30x60 | \$ | \$ |
| 53 | 103-1 <u>(S)</u> | 72 | LF | Utility Trench Section D34 - 30x54 | \$ | \$ |
| 54 | 103-1 <u>(S)</u> | 203 | LF | Utility Trench Section D35 - 24x58 | \$ | \$ |
| 55 | 103-1 <u>(S)</u> | 40 | LF | Utility Trench Section D36 - 36x70 | \$ | \$ |
| 56 | 103-1 <u>(S)</u> | 60 | LF | Utility Trench Section D37 - 36x65 | \$ | \$ |
| 57 | 103-1 <u>(S)</u> | 21 | LF | Utility Trench Section D38 - 24x58 | \$ | \$ |
| 58 | 103-1 <u>(S)</u> | 36 | LF | Utility Trench Section D39 - 18x58 | \$ | \$ |
| 59 | 103-1 <u>(S)</u> | 33 | LF | Utility Trench Section D40 - 24x53 | \$ | \$ |
| 60 | 103-1 <u>(S)</u> | 10 | LF | Utility Trench Section D41 - 36x70 | \$ | \$ |
| 61 | 103-1 <u>(S)</u> | 55 | LF | Utility Trench Section D42 - 36x65 | \$ | \$ |
| 62 | 103-1 <u>(S)</u> | 42 | LF | Utility Trench Section D43 - 36x64 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-------------------|--|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 63 | 103-1 <u>(S)</u> | 66 | LF | Utility Trench Section D44 - 36x65 | \$ | \$ |
| 64 | 103-1 <u>(S)</u> | 23 | LF | Utility Trench Section D45 - 42x55 | \$ | \$ |
| 65 | 103-1 <u>(S)</u> | 17 | LF | Utility Trench Section D46 - 30x65 | \$ | \$ |
| 66 | 103-1 <u>(S)</u> | 25 | LF | Utility Trench Section D48 - 30x58 | \$ | \$ |
| 67 | 103-1 <u>(S)</u> | 36 | LF | Utility Trench Section D49 - 24x58 | \$ | \$ |
| 68 | 103-1 <u>(S)</u> | 18 | LF | Utility Trench Section D50 - 18x58 | \$ | \$ |
| 69 | 103-1 <u>(S)</u> | 60 | LF | Utility Trench Section D51 - 42x63 | \$ | \$ |
| 70 | 103-1 <u>(S)</u> | 31 | LF | Utility Trench Section D52 - 42x63 | \$ | \$ |
| 71 | 103-1 <u>(S)</u> | 31 | LF | Utility Trench Section D53 - 42x54 | \$ | \$ |
| 72 | 103-1 <u>(S)</u> | 28 | LF | Utility Trench Section D54 - 24x62 | \$ | \$ |
| 73 | 103-1 <u>(S)</u> | 46 | LF | Utility Trench Section D55 - 30x53 | \$ | \$ |
| 74 | 103-1 <u>(S)</u> | 19 | LF | Utility Trench Section D56 - 30x55 | \$ | \$ |
| 75 | 103-1 <u>(S)</u> | 17 | LF | Utility Trench Section D57 - 30x61 | \$ | \$ |
| 76 | 103-1 <u>(S)</u> | 39 | LF | Utility Trench Section D58 - 36x65 | \$ | \$ |
| 77 | 103-1 <u>(S)</u> | 74 | LF | Utility Trench Section D59 - 18x56 | \$ | \$ |
| 78 | 103-1 <u>(S)</u> | <u>11</u> | LF | Utility Trench Section D60 - 30x64 | \$ | \$ |
| 79 | 103-1 <u>(S)</u> | 17 | LF | Utility Trench Section D61 - 36x60 | \$ | \$ |
| <u>79A</u> | <u>103-1</u> <u>(S)</u> | <u>57</u> | <u>LF</u> | <u>Utility Trench Section D62 – 36x64</u> | <u>\$</u> | <u>\$</u> |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|----------------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 80 | 103-1 <u>(S)</u> | 7 | LF | Utility Trench Section D63 - 24x58 | \$ | \$ |
| 81 | 103-1 <u>(S)</u> | 39 | LF | Utility Trench Section D64 - 42x54 | \$ | \$ |
| 82 | 103-1 <u>(S)</u> | 7 | LF | Utility Trench Section D65 - 24x57 | \$ | \$ |
| 83 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section D66 - 30x56 | \$ | \$ |
| 84 | 103-1 <u>(S)</u> | 62 | LF | Utility Trench Section F - 24x59 | \$ | \$ |
| 85 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section D67 - 42x63 | \$ | \$ |
| 86 | 103-1 <u>(S)</u> | <u>38</u> | LF | Utility Trench Section D68 - 30x60 | \$ | \$ |
| 87 | 103-1 <u>(S)</u> | <u>45</u> | LF | Utility Trench Section <u>D70 42x48</u> | \$ | \$ |
| <u>87A</u> | <u>103-1</u> <u>(S)</u> | <u>38</u> | <u>LF</u> | <u>Utility Trench Section D71 30x52</u> | <u>\$</u> | <u>\$</u> |
| 88 | 103-1 <u>(S)</u> | 57 | LF | Utility Trench Section F1 - 42x54 | \$ | \$ |
| 89 | 103-1 <u>(S)</u> | 11 | LF | Utility Trench Section F2 - 42x54 | \$ | \$ |
| 90 | 103-1 <u>(S)</u> | 25 | LF | Utility Trench Section F5 - 30x59 | \$ | \$ |
| 91 | 103-1 <u>(S)</u> | 51 | LF | Utility Trench Section F6 - 18x52 | \$ | \$ |
| 92 | 103-1 <u>(S)</u> | 58 | LF | Utility Trench Section F7 - 12x52 | \$ | \$ |
| <u>92A</u> | <u>103-1</u> <u>(S)</u> | <u>20</u> | <u>LF</u> | <u>Utility Trench Section F8 – 30x46</u> | <u>\$</u> | <u>\$</u> |
| <u>92B</u> | <u>103-1</u> <u>(S)</u> | <u>10</u> | <u>LF</u> | <u>Utility Trench Section F9– 18x46</u> | <u>\$</u> | <u>\$</u> |
| <u>92C</u> | <u>103-1</u> <u>(S)</u> | <u>754</u> | <u>LF</u> | <u>Utility Trench Section F10 – 18x46</u> | <u>\$</u> | <u>\$</u> |
| 93 | 103-1 <u>(S)</u> | 181 | LF | Utility Trench Section G - 36x59 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|---------------------|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 94 | 103-1 <u>(S)</u> | 28 | LF | Utility Trench Section G1 - 24x50 | \$ | \$ |
| 95 | 103-1 <u>(S)</u> | 45 | LF | Utility Trench Section G2 - 24x56 | \$ | \$ |
| 96 | 103-1 <u>(S)</u> | 59 | LF | Utility Trench Section G3 - 30x58 | \$ | \$ |
| 97 | 103-1 <u>(S)</u> | 30 | LF | Utility Trench Section G4 - 12x50 | \$ | \$ |
| 98 | 103-1 <u>(S)</u> | 56 | LF | Utility Trench Section G7 - 30x60 | \$ | \$ |
| 99 | 103-1 <u>(S)</u> | <u>196</u> | LF | Utility Trench Section H - 12x43 | \$ | \$ |
| 100 | 103-1 <u>(S)</u> | 106 | LF | Utility Trench Section H1 - 18x43 | \$ | \$ |
| 101 | 103-1 <u>(S)</u> | 49 | LF | Utility Trench Section H2 - 30x43 | \$ | \$ |
| 102 | 103-1 <u>(S)</u> | 113 | LF | Utility Trench Section H3 - 18x41 | \$ | \$ |
| 103 | 103-1 <u>(S)</u> | <u>167</u> | LF | Utility Trench Section H5 - 30x43 | \$ | \$ |
| 104 | 103-1 <u>(S)</u> | <u>331</u> | LF | Utility Trench Section H6 - 12x41 | \$ | \$ |
| 105 | 103-1 <u>(S)</u> | 50 | LF | Utility Trench Section <u>H7 – 30x41</u> | \$ | \$ |
| 106 | 103-1 <u>(S)</u> | 41 | LF | Utility Trench Section <u>H8 – 24x49</u> | \$ | \$ |
| 107 | 103-1 <u>(S)</u> | 67 | LF | Utility Trench Section <u>H9 – 18x48</u> | \$ | \$ |
| 108 | 103-1 <u>(S)</u> | 111 | LF | Utility Trench Section <u>H10 – 18x43</u> | \$ | \$ |
| 109 | 103-1 <u>(S)</u> | <u>598</u> | LF | Utility Trench Section <u>H11 – 18x37</u> | \$ | \$ |
| 110 | 103-1 <u>(S)</u> | 94 | LF | Utility Trench Section <u>H12- 30x53</u> | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued from Previous Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|----------------------------|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 111 | 103-1 <u>(S)</u> | 17 | LF | Utility Trench Section <u>H13 – 72x47</u> | \$ | \$ |
| 112 | 103-1 <u>(S)</u> | 31 | LF | Utility Trench Section <u>H14 – 42x42</u> | \$ | \$ |
| 113 | 103-1 <u>(S)</u> | 129 | LF | Utility Trench Section <u>H15 – 24x53</u> | \$ | \$ |
| 114 | 103-1 <u>(S)</u> | 47 | LF | Utility Trench Section <u>H16- 30x53</u> | \$ | \$ |
| 115 | 103-1 <u>(S)</u> | 16 | LF | Utility Trench Section <u>H17 – 24x51</u> | \$ | \$ |
| 116 | 103-1 <u>(S)</u> | 39 | LF | Utility Trench Section <u>H19- 30x53</u> | \$ | \$ |
| 117 | 103-1 <u>(S)</u> | <u>20</u> | LF | Utility Trench Section <u>H20 – 18x48</u> | \$ | \$ |
| <u>117A</u> | <u>103-1</u> <u>(S)</u> | <u>140</u> | <u>LF</u> | <u>Utility Trench</u> <u>Section L-18x41</u> | <u>\$</u> | <u>\$</u> |
| 118 | 103-1 <u>(S)</u> | 201 | LF | Utility Trench Section <u>L1 – 18x36</u> | \$ | \$ |
| 119 | 103-1 <u>(S)</u> | 136 | LF | Utility Trench Section <u>L2 – 18x41</u> | \$ | \$ |
| 120 | 103-1 <u>(S)</u> | 69 | LF | Utility Trench Section <u>L3 – 12x50</u> | \$ | \$ |
| 121 | 103-1 <u>(S)</u> | 184 | LF | Utility Trench Section <u>L5 – 12x36</u> | \$ | \$ |
| 122 | 103-1 <u>(S)</u> | <u>246</u> | LF | Utility Trench Section <u>L6 – 18x41</u> | \$ | \$ |
| 123 | 103-1 <u>(S)</u> | 137 | LF | Utility Trench Section <u>L7 – 18x35</u> | \$ | \$ |
| 124 | 103-1 <u>(S)</u> | 38 | LF | Utility Trench Section <u>L8 – 18x29</u> | \$ | \$ |
| 125 | 103-1 <u>(S)</u> | 176 | LF | Utility Trench Section L9 - 12x33 | \$ | \$ |
| 126 | 103-1 <u>(S)</u> | 54 | LF | Utility Trench Section L10 - 18x35 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|---------------------|---------------------------|------------------------|------------------------------------|--------------------------------|---------------------------|
| 127 | 103-1 <u>(S)</u> | 46 | LF | Utility Trench Section L11 - 24x39 | \$ | \$ |
| 128 | 103-1 <u>(S)</u> | 173 | LF | Utility Trench Section L12 - 18x51 | \$ | \$ |
| 129 | 103-1 <u>(S)</u> | 73 | LF | Utility Trench Section L13 - 12x38 | \$ | \$ |
| 130 | 103-1 <u>(S)</u> | 18 | LF | Utility Trench Section L14 - 18x39 | \$ | \$ |
| 131 | 103-1 <u>(S)</u> | 164 | LF | Utility Trench Section L15 - 12x37 | \$ | \$ |
| 132 | 103-1 <u>(S)</u> | 771 | LF | Utility Trench Section P - 12x54 | \$ | \$ |
| 133 | 103-1 <u>(S)</u> | 13 | LF | Utility Trench Section P1 - 18x54 | \$ | \$ |
| 134 | 103-1 <u>(S)</u> | 61 | LF | Utility Trench Section P2 - 12x56 | \$ | \$ |
| 135 | 103-1 <u>(S)</u> | 82 | LF | Utility Trench Section P3 - 24x52 | \$ | \$ |
| 136 | 103-1 <u>(S)</u> | 83 | LF | Utility Trench Section P4 - 24x58 | \$ | \$ |
| 137 | 103-1 <u>(S)</u> | 139 | LF | Utility Trench Section P5 - 12x50 | \$ | \$ |
| 138 | 103-1 <u>(S)</u> | 40 | LF | Utility Trench Section P6 - 12x55 | \$ | \$ |
| 139 | 103-1 <u>(S)</u> | 39 | LF | Utility Trench Section P7 - 18x51 | \$ | \$ |
| 140 | 103-1 <u>(S)</u> | 17 | LF | Utility Trench Section P8 - 18x53 | \$ | \$ |
| 141 | 103-1 <u>(S)</u> | 22 | LF | Utility Trench Section P9 - 18x56 | \$ | \$ |
| 142 | 103-1 <u>(S)</u> | 25 | LF | Utility Trench Section P10 - 18x49 | \$ | \$ |
| 143 | 103-1 <u>(S)</u> | 81 | LF | Utility Trench Section P11 - 18x58 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|--------------------|--|---------------------------|------------------------|---|--------------------------------|---------------------------|
| 144 | 103-1 <u>(S)</u> | 102 | LF | Utility Trench Section P12 - 12x51 | \$ | \$ |
| 145 | 103-1 <u>(S)</u> | 82 | LF | Utility Trench Section P14 - 18x52 | \$ | \$ |
| 146 | 103-1 <u>(S)</u> | 338 | LF | Utility Trench Section P15 - 12x52 | \$ | \$ |
| 147 | 103-1 <u>(S)</u> | 40 | LF | Utility Trench Section P17 - 18x53 | \$ | \$ |
| 148 | 103-1 <u>(S)</u> | 381 | LF | Utility Trench Section P18 - 12x54 | \$ | \$ |
| 149 | 103-1 <u>(S)</u> | 50 | LF | Utility Trench Section P19 - 18x52 | \$ | \$ |
| 150 | 103-1 <u>(S)</u> | 83 | LF | Utility Trench Section P20 - 18x57 | \$ | \$ |
| 151 | 103-1 <u>(S)</u> | 69 | LF | Utility Trench Section P21 - 12x52 | \$ | \$ |
| 152 | 103-1 <u>(S)</u> | 55 | LF | Utility Trench Section P22 - 18x53 | \$ | \$ |
| 153 | 103-1 <u>(S)</u> | 72 | LF | Utility Trench Section P23 - 12x52 | \$ | \$ |
| 154 | 103-1 <u>(S)</u> | 12 | LF | Utility Trench Section P24 - 12x30 | \$ | \$ |
| 155 | 103-1 <u>(S)</u> | 12 | LF | Utility Trench Section R - 24x49 | \$ | \$ |
| 156 | 103-1 <u>(S)</u> | 34 | LF | Utility Trench Section R1 - 18x50 | \$ | \$ |
| <u>156A</u> | <u>103-1</u> <u>(S)</u> | <u>36</u> | <u>LF</u> | <u>Utility Trench Section R2 – 18x44</u> | <u>\$</u> | <u>\$</u> |
| <u>156B</u> | <u>103-1</u> <u>(S)</u> | <u>55</u> | <u>LF</u> | <u>Utility Trench Section R3 – 18x42</u> | <u>\$</u> | <u>\$</u> |
| 157 | 103-1 <u>(S)</u> | 26 | LF | Utility Trench Section S - 12x49 | \$ | \$ |
| 158 | 103-1 <u>(S)</u> | 45 | LF | Utility Trench Section S1 - 12x49 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|--------------------|--|---------------------------|------------------------|--|--------------------------------|---------------------------|
| <u>158A</u> | <u>103-1</u> <u>(S)</u> | <u>74</u> | <u>LF</u> | <u>Utility Trench Section</u> <u>S2 – 18x50</u> | <u>\$</u> | <u>\$</u> |
| 159 | 103-1 <u>(S)</u> | 208 | LF | Utility Trench Section U - 18x41 | \$ | \$ |
| 160 | 103-1 <u>(S)</u> | 130 | LF | Utility Trench Section U1 - 12x50 | \$ | \$ |
| 161 | 103-1 <u>(S)</u> | 48 | LF | Utility Trench Section U2 - 24x52 | \$ | \$ |
| 162 | 103-1 <u>(S)</u> | 178 | LF | Utility Trench Section U3 - 24x58 | \$ | \$ |
| 163 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section U4 - 12x50 | \$ | \$ |
| 164 | 103-1 <u>(S)</u> | 36 | LF | Utility Trench Section U5 - 18x50 | \$ | \$ |
| 165 | 103-1 <u>(S)</u> | 59 | LF | Utility Trench Section U6 - 18x51 | \$ | \$ |
| 166 | 103-1 <u>(S)</u> | 94 | LF | Utility Trench Section U7 - 18x53 | \$ | \$ |
| <u>166A</u> | <u>103-1</u> <u>(S)</u> | <u>28</u> | <u>LF</u> | <u>Utility Trench Section</u> <u>U8 – 12x35</u> | <u>\$</u> | <u>\$</u> |
| <u>166B</u> | <u>103-1</u> <u>(S)</u> | <u>19</u> | <u>LF</u> | <u>Utility Trench Section</u> <u>U9 – 12x41</u> | <u>\$</u> | <u>\$</u> |
| 167 | 103-1 <u>(S)</u> | <u>187</u> | LF | Utility Trench Section V - 18x56 | \$ | \$ |
| 168 | 103-1 <u>(S)</u> | 72 | LF | Utility Trench Section V1 - 18x36 | \$ | \$ |
| 169 | 103-1 <u>(S)</u> | 32 | LF | Utility Trench Section V2 - 18x58 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------|---------------------|---------------------------|------------------------|------------------------------------|--------------------------------|---------------------------|
| 170 | 103-1 <u>(S)</u> | 55 | LF | Utility Trench Section V3 - 12x51 | \$ | \$ |
| 171 | 103-1 <u>(S)</u> | 1,380 | LF | Utility Trench Section W - 6x35 | \$ | \$ |
| 172 | 103-1 <u>(S)</u> | 920 | LF | Utility Trench Section W1 - 12x35 | \$ | \$ |
| 173 | 103-1 <u>(S)</u> | 38 | LF | Utility Trench Section W2 - 18x35 | \$ | \$ |
| 174 | 103-1 <u>(S)</u> | 37 | LF | Utility Trench Section W3 - 18x49 | \$ | \$ |
| 175 | 103-1 <u>(S)</u> | 25 | LF | Utility Trench Section W4 - 18x41 | \$ | \$ |
| 176 | 103-1 <u>(S)</u> | 144 | LF | Utility Trench Section W5 - 12x51 | \$ | \$ |
| 177 | 103-1 <u>(S)</u> | 24 | LF | Utility Trench Section W6 - 12x34 | \$ | \$ |
| 178 | 103-1 <u>(S)</u> | 6 | LF | Utility Trench Section W7 - 12x33 | \$ | \$ |
| 179 | 103-1 <u>(S)</u> | 5 | LF | Utility Trench Section W8 - 12x36 | \$ | \$ |
| 180 | 103-1 <u>(S)</u> | <u>49</u> | LF | Utility Trench Section W9 - 24x34 | \$ | \$ |
| 181 | 103-1 <u>(S)</u> | 10 | LF | Utility Trench Section W10 - 18x35 | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------------|--|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 182 | 103-1 <u>(S)</u> | 333 | LF | Utility Trench Section W11 - 18x39 | \$ | \$ |
| 183 | 103-1 <u>(S)</u> | 14 | LF | Utility Trench Section W12 - 12x35 | \$ | \$ |
| 184 | 103-1 <u>(S)</u> | 20 | LF | Utility Trench Section W13 - 12x35 | \$ | \$ |
| 185 | 103-1 <u>(S)</u> | <u>150</u> | LF | Jack and Bore Utility Crossing - Trench Section H16 - 36" DIA Casing | \$ | \$ |
| 186 | 103-1 <u>(S)</u> | <u>150</u> | LF | Jack and Bore Utility Crossing - Trench Section V3 - <u>30" Casing</u> | \$ | \$ |
| 187 | 103-1 <u>(S)</u> | <u>150</u> | LF | Jack and Bore Utility Crossing - Trench Section W - 24" DIA Casing | \$ | \$ |
| 188 | 103-1 <u>(S)</u> | 90 | LF | Jack and Bore Utility Crossing - Trench Section U7 - 18" DIA Casing | \$ | \$ |
| 189 | 103-1 (S) | 90 | LF | Jack and Bore Utility Crossing - Trench Section V - 12" DIA Casing | \$ | \$ |
| 190 | 103-1 <u>(S)</u> | 90 | LF | Jack and Bore Utility Crossing - Trench Section H6 - 10" DIA Casing | \$ | \$ |
| 191 | 103-1 <u>(S)</u> | 2 | LS | Jack and Bore Preparation - Pits - Jacking Pit | \$ | \$ |
| 192 | 103-1 <u>(S)</u> | 2 | LS | Jack and Bore Preparation - Pits - Receiving Pit | \$ | \$ |

PROPOSAL (SCHEDULE B) – Continued on Next Page

PROPOSAL (SCHEDULE B) – Continued from Previous Page

| Item No. | Section No. | Estimated Quantity | Unit of Measure | Item Description | Item Price (In Figures) | Total (In Figures) |
|-----------------------------|---------------------|---------------------------|------------------------|--|--------------------------------|---------------------------|
| 193 | 103-1 (S) | 2,667 | CY | Jack and Bore Preparation - Backfill and Compaction of Pits - Middlefield Road | \$ | \$ |
| 194 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Dewatering - Middlefield Road | \$ | \$ |
| 195 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Pavement Restoration - Middlefield Road | \$ | \$ |
| 196 | 103-1 (S) | 160 | LF | Jack and Bore Preparation - Shoring - Middlefield Road | \$ | \$ |
| 197 | 103-1 (S) | 1,500 | CY | Jack and Bore Preparation - Backfill and Compaction of Pits - UP R/W | \$ | \$ |
| 198 | 103-1 (S) | 90 | LF | Jack and Bore Preparation - Dewatering - UP R/w | \$ | \$ |
| 199 | 103-1 (S) | 90 | LF | Jack and Bore Preparation - Shoring - UP RW | \$ | \$ |
| 200 | 105-3 | 1 | LS | Trench Safety | \$ | \$ |
| SCHEDULE B SUB-TOTAL | | | | | | \$ |

PROPOSAL SUMMARY

A BID IS REQUIRED FOR THE ENTIRE WORK DESCRIBED HEREIN FOR SCHEDULE A AND SCHEDULE B. THE AWARD OF CONTRACT, IF AWARDED, WILL BE MADE ON THE BASIS OF THE LOWEST SUM TOTAL OF BOTH SCHEDULE A AND SCHEDULE B.

| | |
|--|-----------|
| SCHEDULE A SUB-TOTAL | \$ |
| SCHEDULE B SUB-TOTAL | \$ |
| TOTAL BASE BID (SCHEDULE A + B) | \$ |

Such statements, mentioned above, shall be included on a separate endorsement to be submitted to the County with the Certificate of Insurance.

Such insurance shall include:

- 1) Comprehensive General Liability..... \$5,000,000
- 2) Motor Vehicle Liability Insurance..... \$5,000,000

a. SFPUC Liability Insurance Requirements

At all times during the course of the Work, Requesting Party shall maintain and keep in effect, and shall cause its Contractor to maintain and keep in effect, pollution legal liability, environmental remediation liability, and other environmental insurance, including coverage for bodily injury, sickness, disease, mental anguish, or shock sustained by any person, including death; Environmental Damages; property damage including, but not limited to, physical injury, to or destruction of tangible property including the resulting loss of use thereof, cleanup costs, and the loss of use of tangible property that has not been physically injured or destroyed; defense costs, charges and expenses incurred in the investigation, adjustment of defense claims for such compensatory damages; sudden and non-sudden pollution conditions including the discharge, dispersal, release, or escape of Hazardous Materials into or upon City’s property, the atmosphere, or watercourse or body of water, which results in Environmental Damages; transportation coverage for the hauling of any Hazardous Materials by Requesting Party or Requesting Party’s Contractor or agents from the Work Area to the final disposal location; and first party environmental remediation that pays for the cost of cleanup and remediation of the Work Area required to comply with all Applicable Laws. Such insurance shall be endorsed to provide third-party disposal site coverage that covers third-party bodily injury, property damage, and cleanup coverage for pollution conditions emanating from a disposal site or landfill used by the Requesting Party or Requesting Party’s agents. Requesting Party shall maintain limits no less than \$1,000,000 combined single limit for bodily injury and property damage. City and its officers, commissioners, agents, volunteers, and employees shall be included as

additional insureds on the policy as loss payees under the pollution legal liability/environmental remediation/cleanup liability insurance policy.

C. In case of the breach of any provision of this Article, the County, at its option, may take out and maintain at the expense of the Contractor, or subcontractor, such insurance as the County may deem proper and may deduct the cost of taking out and maintaining such insurance from any sums which may be due, or become due, to the Contractor, under this Contract.

D. Hold Harmless

The Contractor's attention is directed to Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

The provisions contained in Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications of the State of California, Department of Transportation, shall be applicable with the understanding that where said provisions specifically refer to the State of California, a department or division of the State or an official, officer or employee of the State, said provision shall be interpreted to refer to the County of San Mateo, San Francisco Public Utilities Commission, San Mateo County Transit District, Peninsula Corridor Joint Powers Board, Union Pacific Railroad, Pacific Gas and Electric Company, AT&T, Comcast, Verizon, Wave Broadband, Menlo Park Highway Lighting District, Fair Oaks Sewer Maintenance District, County of San Mateo Information Services Department, CalWater, and all officers, agents, servants and employees thereof connected with the work, including but not limited to the Director of Public Works, their duly authorized representatives, other appropriate department, division, official, officer or employee of the County of San Mateo, San Francisco Public Utilities Commission, San Mateo County Transit District, Peninsula Corridor Joint Powers Board, Union Pacific Railroad, Pacific Gas and Electric Company, AT&T, Comcast, Verizon, Wave Broadband, Menlo Park Highway Lighting District, Fair Oaks Sewer Maintenance District, County of San Mateo Information Services Department, and CalWater.

The provisions of Section 7-1.12A, "Indemnification," of the Standard Specifications are superseded by the following:

"To the full extent permitted by law, Contractor shall indemnify and save harmless the County, its officers, employees, and servants from all

claims, suits, or actions of every name, kind, and description, brought for, or on account of:

1. Injuries to or death of any person, including Contractor, its officers, employees and servants, or
2. Damage to any property of any kind whatsoever and to whomsoever belonging, or
3. Any sanctions, penalties or claims of damages resulting from Contractor's failure to comply with applicable laws, or
4. Any other loss or cost resulting from the contractor's negligent or reckless acts or omissions or willful misconduct in connection with the performance of any work required of Contractor or payments made pursuant to this Agreement, provided that this shall not apply to injuries or damages for which the County has been found in a court of competent jurisdiction to be liable by reason of its own negligence or willful misconduct.

The duty of Contractor to indemnify and save harmless, as set forth herein, shall include the duty to defend, as set forth In Section 2778 of the California Civil Code.

The obligations set forth in this section shall continue beyond the term of this Agreement as to any act or omission which occurred during or under this Agreement.”

E. Compensation

All insurance required by the paragraphs of this section shall be obtained and maintained by the Contractor at Contractor's own expense and County shall not compensate Contractor for said insurance expenses other than as they are included in the Contract prices the County pays for the various items of work.

F. Nothing herein contained shall be construed as limiting in anyway the extent to which the Contractor may be held responsible for payments of damages resulting from his operation.

IX. Prevailing Wages: Contractor hereby agrees to pay not less than prevailing rates of wages, which are effective on the date the Notice to Contractors is issued for each craft or type of workman or mechanic needed to execute the Contract as provided for by the County for the performance of public work, and be responsible for compliance with all the provisions of the California Labor Code, Article 2-Wages, Chapter 1, Part 7, Division 2, Section 1770 et seq. and Section 1810 et seq., and particularly Section 1775 and 1776(a) thereof. A copy of the prevailing wage scale established by the Department of Industrial Relations is on file in the office of the

Director of Public Works, and available at www.dir.ca.gov/DLSR or by phone at 415-703-4774. California Labor Code Section 1776(a) requires each contractor and subcontractor keep accurate payroll records of trades workers on all public works projects and to submit copies of certified payroll records upon request.

Additionally, pursuant to State Senate Bill SB 854 (Stat. 2014, chapter 28), effective January 1, 2015:

- No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code Section 1771.1(a)].
- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5.
- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

X. California Labor Code: The Contractor expressly covenants and agrees to comply with all the provisions of the Labor Code of the State of California limiting the hours of labor on public works to 8 hours during any one calendar day, and forty (40) hours in any one calendar week, requiring the payment of not less than the prevailing wage rates, and further agrees to the forfeitures provided for in said Labor Code and as set forth in Section 7, “Legal Relations and Responsibility,” of the Standard Specifications and all amendments thereto, in the event of a violation of any of the provisions thereof during the course of execution of this Contract.

The Contractor expressly agrees to be responsible for compliance with all the provisions of Sections 1776 and 1777.5 of the California Labor Code.

XI. Non-Discrimination and Other Requirements:

a. General Non-discrimination:

No person shall be excluded from participation in, denied benefits of, or be subject to discrimination under this Agreement on the basis of their race, color, religion, national origin, ancestry, age, disability (physical or mental), sex, sexual orientation, gender identity, marital or domestic partner status, religion, political beliefs or affiliation, familial or parental status (including pregnancy, childbirth or related conditions), medical condition (including cancer-related), military service, or genetic information. Contractor

shall ensure full compliance with Federal, state and local laws, directives and executive orders regarding non-discrimination for all employees and Subcontractors under this Agreement.

b. Equal Employment Opportunity:

Contractor shall ensure equal employment opportunity based on objective standards of recruitment, classification, selection, promotion, compensation, performance evaluation, and management relations for all employees under this Agreement.

Contractor's equal employment policies shall be made available to County upon request.

c. Section 504 of the Rehabilitation Act of 1973:

Contractor shall comply with Section 504 of the Rehabilitation Act of 1973, as amended, which provides that no otherwise qualified individual with a disability shall, solely by reason of a disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination in the performance of any services this Agreement. This section applies only to contractors who are providing services to members of the public under this Agreement.

d. Compliance with County's Equal Benefits Ordinance:

Contractor shall comply with all laws relating to the provision of benefits to its employees and their spouses or domestic partners, including, but not limited to, such laws prohibiting discrimination in the provision of such benefits on the basis that the spouse or domestic partner of the Contractor's employee is of the same or opposite sex as the employee.

e. Discrimination Against Individuals with Disabilities:

The nondiscrimination requirements of 41 C.F.R. 60-741.5(a) are incorporated into this Agreement as if fully set forth here, and Contractor and any subcontractor shall abide by the requirements of 41 C.F.R. 60-741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified individuals with disabilities.

f. History of Discrimination:

Contractor certifies that no finding of discrimination has been issued in the past 365 days against Contractor by the Equal Employment Opportunity Commission, the

California Department of Fair Employment and Housing, or any other investigative entity. If any finding(s) of discrimination have been issued against Contractor within the past 365 days by the Equal Employment Opportunity Commission, the California Department of Fair Employment and Housing, or other investigative entity, Contractor shall provide County with a written explanation of the outcome(s) or remedy for the discrimination prior to execution of this Agreement. Failure to comply with this section shall constitute a material breach of this Agreement and subjects the Agreement to immediate termination at the sole option of the County.

g. Reporting; Violation of Non-discrimination Provisions:

Contractor shall report to the County Manager the filing in any court or with any administrative agency of any complaint or allegation of discrimination on any of the bases prohibited by this section of the Agreement or the Section titled "Compliance with Laws." Such duty shall include reporting of the filing of any and all charges with the Equal Employment Opportunity Commission, the California Department of Fair Employment and Housing, or any other entity charged with the investigation or adjudication of allegations covered by this subsection within 30 days of such filing, provided that within such 30 days such entity has not notified Contractor that such charges are dismissed or otherwise unfounded. Such notification shall include a general description of the circumstances involved and a general description of the kind of discrimination alleged (for example, gender-, sexual orientation-, religion-, or race-based discrimination).

Violation of the non-discrimination provisions of this Agreement shall be considered a breach of this Agreement and subject the Contractor to penalties, to be determined by the County Manager, including but not limited to:

- i) Termination of this Agreement;
- ii) Disqualification of the Contractor from bidding on or being awarded a County contract for a period of up to 3 years;
- iii) Liquidated damages of \$2,500 per violation; and/or
- iv) Imposition of other appropriate contractual and civil remedies and sanctions, as determined by the County Manager.

To effectuate the provisions of this paragraph, the County Manager shall have the authority to:

- i) Examine Contractor's employment records with respect to compliance with this paragraph;

- ii) Offset all or any portion of the amount described in this paragraph against amounts due to Contractor under the Contract or any other Contract between Contractor and County.

Contractor shall report to the County Manager the filing by any person in any court of any complaint of discrimination or the filing by any person of any and all charges with the Equal Employment Opportunity Commission, the Fair Employment and Housing Commission or any other entity charged with the investigation of allegations within 30 days of such filing, provided that within such 30 days such entity has not notified Contractor that such charges are dismissed or otherwise unfounded. Such notification shall include the name of the complainant, a copy of such complaint and a description of the circumstance. Contractor shall provide County with a copy of its response to the Complaint when filed.

Compliance with Equal Benefits Ordinance. With respect to the provisions of employee benefits, Contractor shall comply with the County Ordinance which prohibits contractors from discriminating in the provision of employee benefits between an employee with a domestic partner and an employee with a spouse.

XII. Compliance with County Employee Jury Service Ordinance: Contractor shall comply with Chapter 2.85 of the County's Ordinance Code, which states that Contractor shall have and adhere to a written policy providing that its employees, to the extent they are full-time employees and live in San Mateo County, shall receive from the Contractor, on an annual basis, no fewer than five days of regular pay for jury service in San Mateo County, with jury pay being provided only for each day of actual jury service. The policy may provide that such employees deposit any fees received for such jury service with Contractor or that the Contractor may deduct from an employee's regular pay the fees received for jury service in San Mateo County. By signing this Agreement, Contractor certifies that it has and adheres to a policy consistent with Chapter 2.85. For purposes of this section, if Contractor has no employees in San Mateo County, it is sufficient for Contractor to provide the following written statement to County: "For purposes of San Mateo County's jury service ordinance, Contractor certifies that it has no full-time employees who live in San Mateo County. To the extent that it hires any such employees during the term of its Agreement with San Mateo County, Contractor shall adopt a policy that complies with Chapter 2.85 of the County's Ordinance Code." The requirements of Chapter 2.85 do not apply if this Agreement's total value listed in the Section 16 is less than one-hundred thousand

dollars (\$100,000), but Contractor acknowledges that Chapter 2.85's requirements will apply if this Agreement is amended such that its total value meets or exceeds that threshold amount.

XIII. Termination of Agreement: The Contract may be terminated by the County in the event the Contractor should be adjudged bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he or any of his subcontractors should violate any of the provisions of the Contract, or if he should persistently or repeatedly refuse, or should fail, except in cases where extension of time is provided, to furnish enough properly skilled workmen or proper materials, or if he should fail to make prompt payment to subcontractors, or for materials or labor, or persistently disregard laws, ordinances, or the instructions of the Engineer. In the event of any of the foregoing conditions, the Engineer is authorized and directed to serve written notice upon the Contractor and his Surety of its intention to terminate the Contract, such notice to contain the reasons for action and unless within **TWO (2) CALENDAR DAYS** after serving of such notice such conditions shall be remedied and satisfactory arrangements for continuation be made, the Contract shall, upon expiration of **TWO (2) CALENDAR DAYS**, cease and terminate. In the event of any such termination, the Engineer may take over the work and prosecute the same to completion by Contract or by any other method he may deem advisable, and at the expense of the Contractor, and the Contractor and his Surety shall be liable to the County for any excess cost occasioned thereby, and in such event, the County may without liability to so doing take possession of and utilize such materials, appliances, plant and other property belonging to the Contractor as may be on the site of the work, and necessary therefore. In such cases, the Contractor shall not be entitled to receive any further payment until the work is completed.

XIV. Compliance with Laws: The Contractor shall comply with all existing and future State and Federal and regulating laws and all ordinances and regulations of the County of San Mateo which in any manner affect those engaged or employed in the work, or the materials used in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same.

Controlling Law: The validity of this Agreement and of its terms or provisions, as well as the rights and duties of the parties hereunder, the interpretation, and performance of this Agreement shall be governed by the laws of the State of California.

XV. Contract Assignability: Neither party to the Contract shall assign the Contract or sublet it as a whole without written consent of the other, nor shall the Contractor assign any monies due or to become due to him hereunder without the previous written consent of the County. The Contractor shall neither mortgage nor convey title to equipment or material to be used in this work, without the written permission of the County.

XVI. COVID-19: This Provision relates to issues associated with the Novel Coronavirus Disease 2019 (COVID-19) and shall supersede any other conflicting sections or provisions of this Contract and its attachments. The ongoing COVID-19 pandemic may impact the County's ability to proceed with this Project.

Although this Project is proceeding as an Essential Infrastructure Project as determined by the County Board of Supervisors/County Manager, this determination could change in the future based on Health Orders issued by the San Mateo County Health Officer or State of California, or future determinations of the County Board of Supervisors/County Manager. Should future Health Orders or the County Board of Supervisors/County Manager directives preclude the Project from proceeding as scheduled, the County reserves the right to:

- Cancel the Project, terminate the Contractor's work once the Contractor has safely secured the work area, and compensate the Contractor for work completed and materials purchased prior to cancellation of the Project and labor and materials, as approved by the Engineer, required to safely secure the work area such that work can be discontinued on the Project; **or**
- The County and Contractor may reach a mutually agreeable extension for completion of the Project such that the work can resume after being halted provided it complies with all Health Orders issued by the Health Officer of the County of San Mateo or the State of California and as approved by the County Board of Supervisors/County Manager.

It is the Contractor's obligation and responsibility to ensure that all work associated with this Project complies with all current Orders of the Health Officer of the County of San Mateo related to the Novel Coronavirus Disease 2019 (COVID-19). The County of San Mateo assumes no responsibility for work performed by Contractor that is not in compliance with all current Orders. The Contractor is advised to review the Orders of the Health Officer of the County of San Mateo, which can be found at the following link:

<https://www.smchealth.org/post/health-officer-statements-and-orders>

XVII. Contract Materials: The County hereby promises and agrees with the said Contractor to employ and does hereby employ the said Contractor to provide the materials, unless otherwise specified, and to do the work according to the terms and conditions herein contained and referred to, for the prices aforesaid and hereby contracts to pay the same at the time, in the manner and upon the conditions above set forth, and the said parties for themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained.

XVIII. Retention of Records, Right to Monitor and Audit:

- A.** CONTRACTOR shall maintain all required records for 3 years after the COUNTY makes final payment and all other pending matters are closed, and shall be subject to the examination and/or audit of the County, a Federal grantor agency, and the State of California.
- B.** Reporting and Record Keeping: CONTRACTOR shall comply with all program and fiscal reporting requirements set forth by appropriate Federal, State and local agencies and as required by the COUNTY.
- C.** CONTRACTOR agrees upon reasonable notice to provide to COUNTY, to any Federal or State department having monitoring or review authority, to COUNTY's authorized representatives, and/or their appropriate audit agencies upon reasonable notice, access to and the right to examine all records and documents necessary to determine compliance with relevant Federal, State, and local statutes, rules and regulations, and this Agreement, and to evaluate the quality, appropriateness and timeliness of services performed.

XIX. Notices: Any notice, request, demand or other communication required or permitted hereunder shall be deemed to be properly given when both: (1) transmitted via facsimile to the number listed below or transmitted via email to the email address listed below; and (2) sent to the physical address listed below by either being deposited in the United States mail, postage prepaid, or deposited for overnight delivery, charges prepaid, with an established overnight courier that provides a tracking number showing confirmation of receipt.

In the case of County, to:

James C. Porter, Director of Public Works
 County of San Mateo
 555 County Center, 5th Floor
 Redwood City, CA 94063-1665
 Facsimile: 650-361-8220
 Email: jporter@smcgov.org

In the case of Contractor, to:

(Contractor Name)
 (Contractor Address)
 (City, State Zip)

XX. Contract Amount and Change Orders:**A. Contract Amount**

The amount payable to Contractor under the terms of this agreement is
 _____ DOLLARS (\$_____).

B. Change Orders

The Board of Supervisors has authorized the Director of Public Works to execute change orders to modify the scope of work provided under this agreement, and to increase the County's maximum fiscal obligation to correspond to those changes. The Board of Supervisors has directed that in the event of change orders, the County's maximum fiscal obligation shall not exceed _____ DOLLARS (\$_____). Any payments in excess of the amount authorized by the Board of Supervisors will require additional approval of the Board of Supervisors.

XXI. Proprietary Rights and Confidentiality: The requirements of this Agreement pertaining to the protection of proprietary rights and confidentiality shall survive termination of this Agreement.

XXII. Electronic Signature: Both County and Contractor wish to permit this Agreement and future documents relating to this Agreement to be digitally signed in accordance with California law and County's Electronic and Facsimile Signatures Administrative Memo (B-29). Any party to this Agreement may revoke such agreement to permit electronic signatures at any time in relation to all future documents by providing notice pursuant to this Agreement.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands
the year and date first above written.

“County”

COUNTY OF SAN MATEO
State of California

BY: _____

**President, Board of Supervisors
County of San Mateo**

ATTEST:

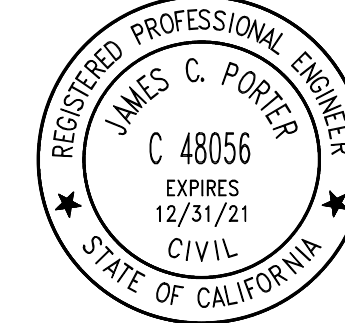
Michael Callagy, County Manager/
Clerk of the Board of Supervisors

“Contractor”

Name of Contractor

BY: _____

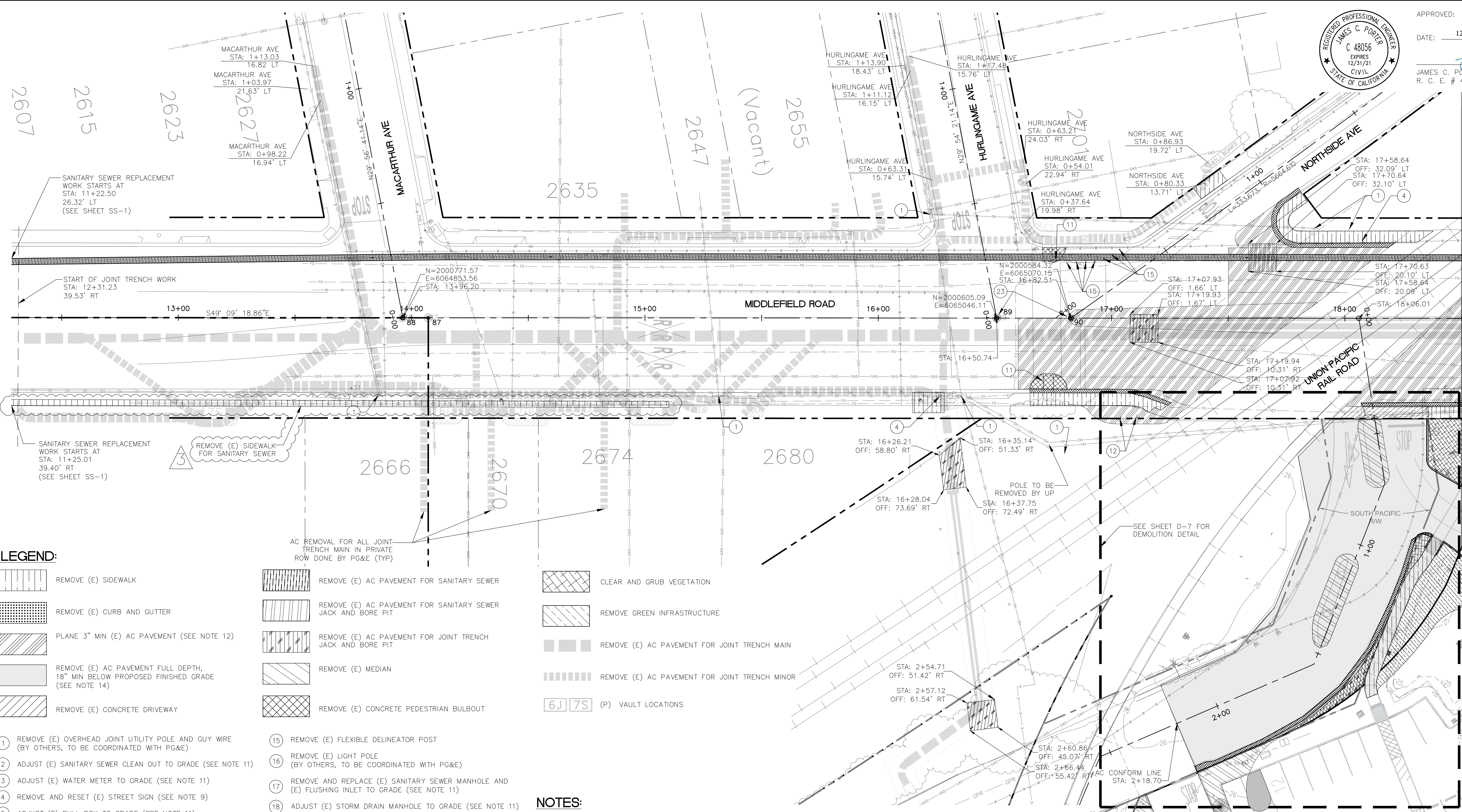
(Authorized Signature and Seal of Bidder)



APPROVED:

DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



STA: 18+50.00 - SEE SHEET D-2

LEGEND:

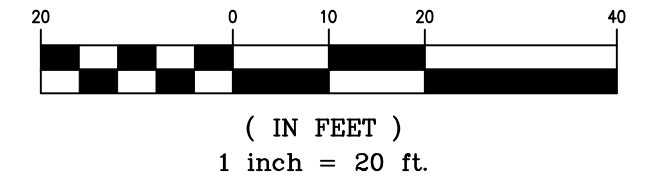
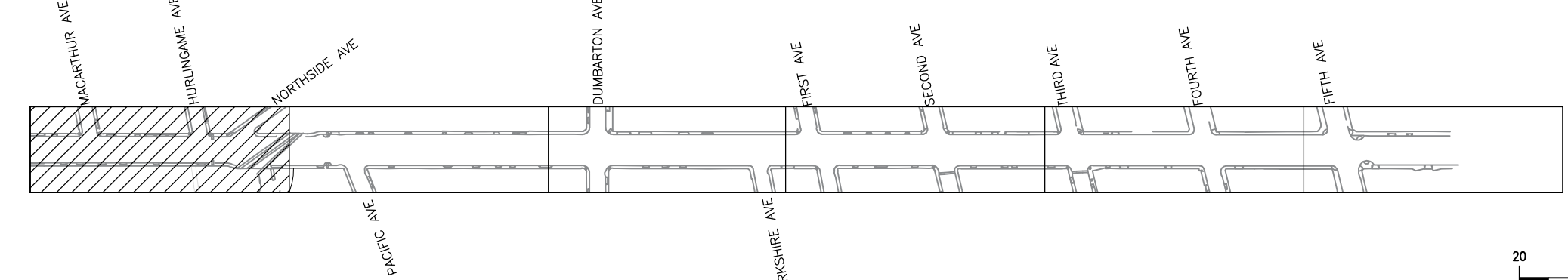
- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- PLANE 3" MIN (E) AC PAVEMENT (SEE NOTE 12)
- REMOVE (E) AC PAVEMENT FULL DEPTH, 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER JACK AND BORE PIT
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH JACK AND BORE PIT
- REMOVE (E) MEDIAN
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- CLEAR AND GRUB VEGETATION
- REMOVE GREEN INFRASTRUCTURE
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- (6J) (7S) (P) VAULT LOCATIONS

- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- 3 ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- 4 REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- 5 ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- 6 ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- 7 ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11)
- 8 (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- 9 REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- 10 REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 11 REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 12 UPRR TO REMOVE (E) RAILROAD SIGNAL AND INSTALL (N) SIGNAL
- 13 ADJUST (E) VAULT TO GRADE (SEE NOTE 11)
- 14 RELOCATE (E) UNITED STATES POSTAL SERVICE MAIL BOX
- 15 REMOVE (E) FLEXIBLE DELINEATOR POST
- 16 REMOVE (E) LIGHT POLE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 17 REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTE 11)
- 18 ADJUST (E) STORM DRAIN MANHOLE TO GRADE (SEE NOTE 11)
- 19 RECONSTRUCT (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 20 ADJUST (E) MONITORING WELL TO GRADE (SEE NOTE 11)
- 21 ADJUST (E) WATER VALVE TO GRADE (SEE NOTE 11)
- 22 REMOVE AND RELOCATE (E) SANITARY SEWER MANHOLE AND EXISTING FLUSHING INLET TO GRADE (SEE NOTES 10 & 11)
- 23 ADJUST (E) MONUMENT TO GRADE (SEE NOTE 11)
- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)

NOTES:

1. SEE SHEET G-3 FOR DEMOLITION NOTES.
2. SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS.
3. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK.
4. OUTSIDE FULL-WIDTH UNITS OF ROADWAY AND SIDEWALK REPLACEMENT REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
5. REPAIRS WITHIN 2 FEET OF UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD.
6. CONTRACTOR TO REMOVE AND REPLACE TRAFFIC LOOPS IMPACTED BY DEMOLITION WORK. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
7. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
8. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
9. SEE SHEETS ST-1 THROUGH ST-6 FOR (P) SIGN RELOCATION.
10. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
11. SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
12. FROM STATION 16+60 SOUTHBOUND AND STATION 17+50 NORTHBOUND TO STATION 19+00, REMOVE 3" MIN (E) AC PAVEMENT BY PLANING AND PLACE NEW AC TO FINISHED GRADE (MATCH EXISTING).
13. FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
14. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED GRADING AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).

KEY MAP

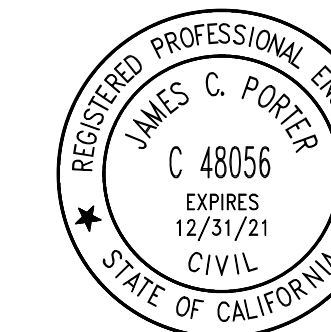


AECOM
300 California Street, Suite 600
San Francisco, Ca 94104
Tel: 415-796-8100
fax: 415-796-8200

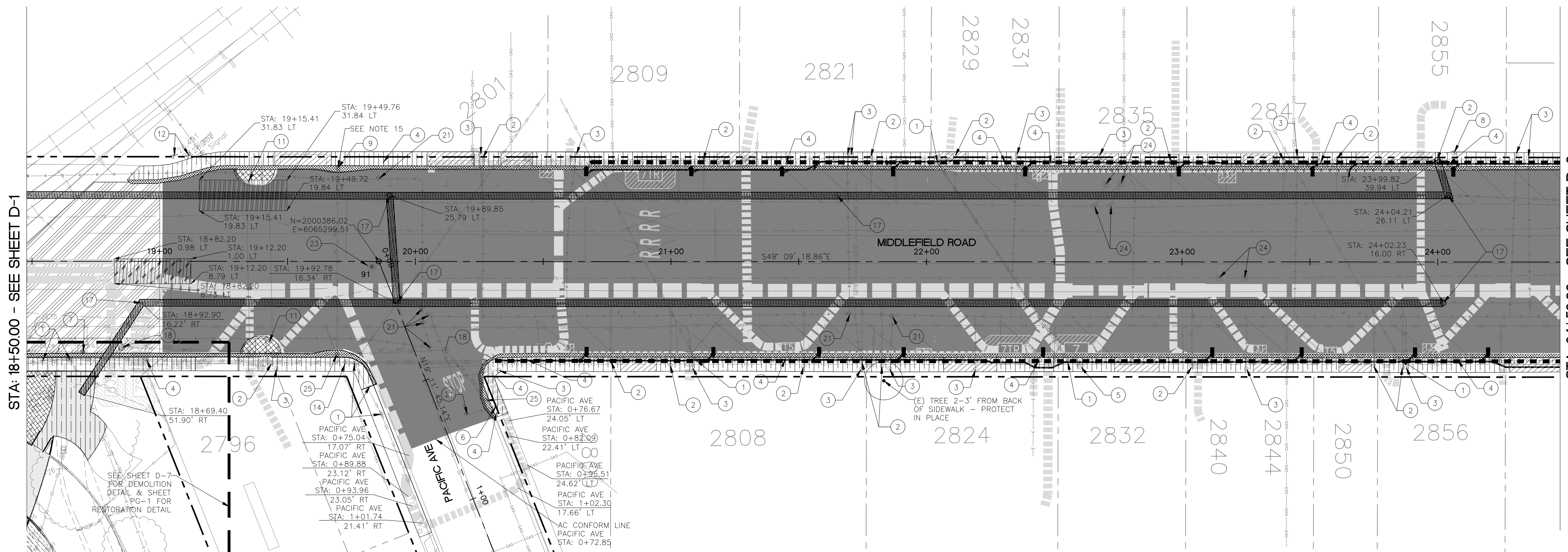


| | | |
|---|---|--------------------------------|
| DESIGNED BY: AB | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| DRAWN BY: AB | DEMOLITION PLAN | FILE NO: 1/E4931 |
| ISSUE FOR BID: 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | D-1 (REV) |
| 0 1 2 3 4 | | SHEET 12 OF 140 |

FILENAME: \\VAECOMNET.COM\US\AMER\SANFRANCISCO\US\SF\DCS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETScape\000_CAD\SHEETS\DEMOLITION PLAN\DEMOLITION PLAN - D-01.DWG (D-01)



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021



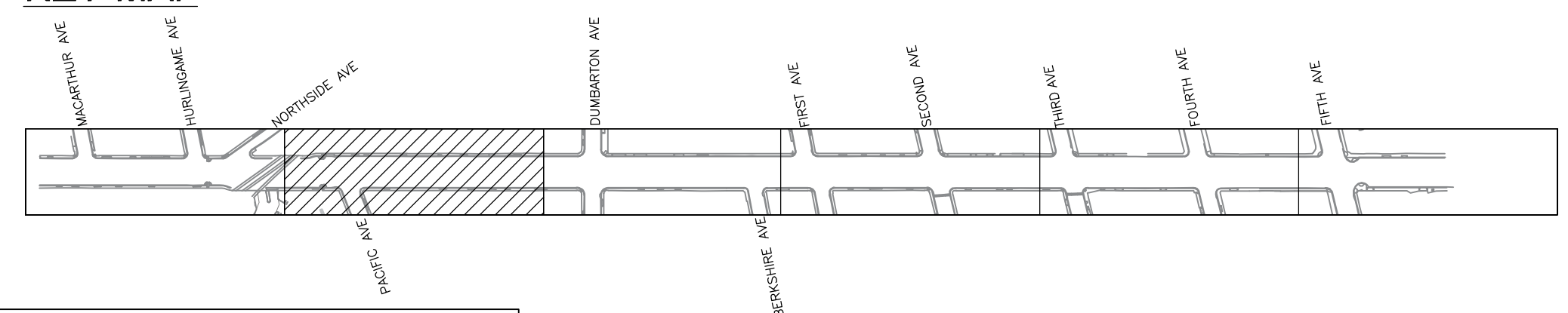
STA: 18+50.00 - SEE SHEET D-1

STA: 24+50.00 - SEE SHEET D-3

LEGEND:

- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- PLANE 3" MIN (E) AC PAVEMENT (SEE NOTE 12)
- PLANE (E) AC PAVEMENT TO 3" BELOW PROPOSED GRADE (SEE NOTE 13)
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER JACK AND BORE PIT
- CLEAR AND GRUB VEGETATION
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH JACK AND BORE PIT
- (P) VAULT LOCATIONS
- REMOVE (E) AC PAVEMENT FOR TRAFFIC SIGNAL AND TREE HOLIDAY LIGHT CONDUIT

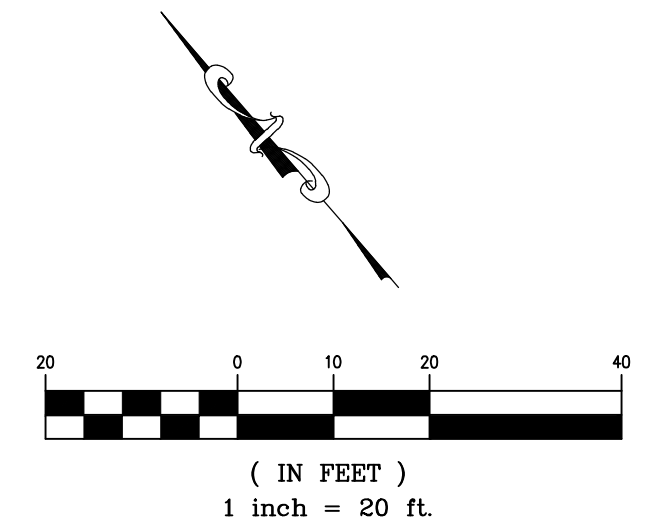
KEY MAP



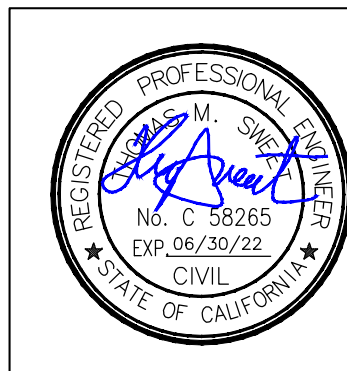
- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- 3 ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- 4 REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- 5 ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- 6 ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- 7 ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11)
- 8 (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- 9 REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- 10 REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 11 REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 12 UPRR TO REMOVE (E) RAILROAD SIGNAL AND INSTALL (N) SIGNAL
- 13 ADJUST (E) VAULT TO GRADE (SEE NOTE 11)
- 14 RELOCATE (E) UNITED STATES POSTAL SERVICE MAIL BOX
- 15 REMOVE (E) FLEXIBLE DELINEATOR POST
- 16 REMOVE (E) LIGHT POLE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 17 REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTE 11)
- 18 ADJUST (E) STORM DRAIN MANHOLE TO GRADE (SEE NOTE 11)
- 19 RECONSTRUCT (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 20 ADJUST (E) MONITORING WELL TO GRADE (SEE NOTE 11)
- 21 ADJUST (E) WATER VALVE TO GRADE (SEE NOTE 11)
- 22 REMOVE AND RELOCATE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTES 10 & 11)
- 23 ADJUST (E) MONUMENT TO GRADE (SEE NOTE 11)
- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)

NOTES:

1. SEE SHEET G-3 FOR DEMOLITION NOTES.
2. SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS.
3. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK, OUTSIDE FULL-WIDTH LIMITS OF ROADWAY AND SIDEWALK REPLACEMENT. REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
5. REPAIRS WITHIN 2 FEET OF THE UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD.
6. CONTRACTOR TO REMOVE AND REPLACE TRAFFIC LOOPS IMPACTED BY DEMOLITION WORK. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
7. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
8. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
9. SEE SHEETS ST-1 THROUGH ST-6 FOR (P) SIGN RELOCATION.
10. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
11. SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
12. FROM STATION 16+60 SOUTH BOUND AND STATION 17+50 NORTH BOUND TO STATION 19+00, PLANE 3" MIN (E) AC PAVEMENT AND PLACE 3" MIN (N) AC TO FINISHED GRADE (MATCH EXISTING).
13. FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE AND PLACE 3" MIN (N) AC TO PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
14. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE AT REDWOOD JUNCTION) AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).
15. REFER TO SHEET PP-2 FOR LOCATION OF RELOCATED STORM DRAINAGE INLET.

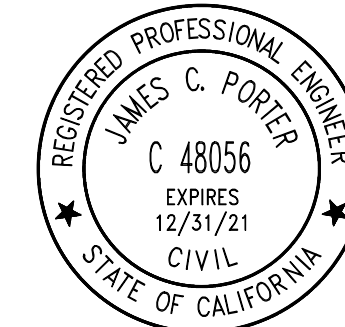


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 San Francisco, Ca 94104
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 fax: 415-796-8200

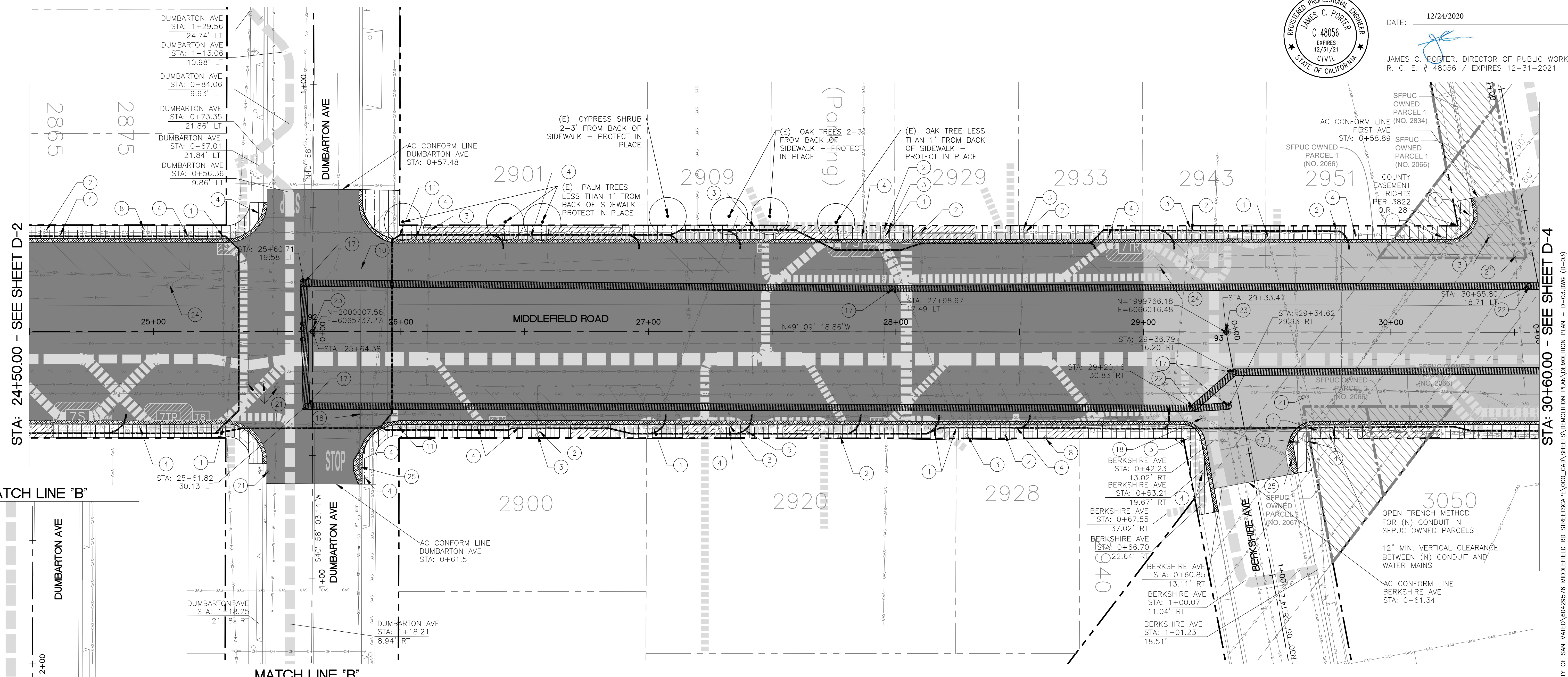


| | | |
|---|---|--------------------------------|
| DESIGNED BY: AB | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| DRAWN BY: AB | DEMOLITION PLAN | FILE NO.: 1/E4931 |
| ISSUE FOR BID: 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | D-2 (REV) SHEET 13 OF 140 |

FILENAME: \\VA.AECOM\NET\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETS\SCAPE\000_CAD\SHEETS\DEMOLITION PLAN - D-02.DWG (D-02)



APPROVED: 12/24/2020
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021



STA: 24+50.00 - SEE SHEET D-2

STA: 30+60.00 - SEE SHEET D-4

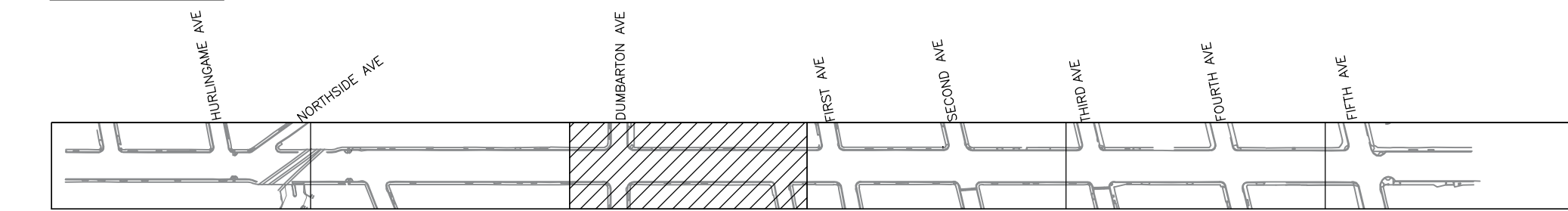
MATCH LINE 'B'

MATCH LINE 'B'

LEGEND:

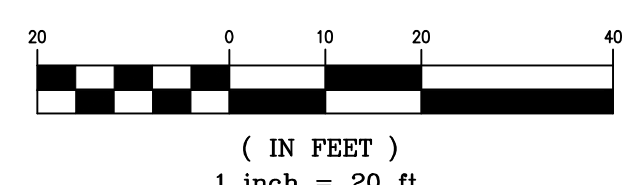
- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- PLANE (E) AC PAVEMENT TO 3" BELOW PROPOSED GRADE (SEE NOTE 13)
- REMOVE (E) AC PAVEMENT FULL DEPTH, 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GLY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11)
- REMOVE (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- UPRR TO REMOVE (E) RAILROAD SIGNAL AND INSTALL (N) SIGNAL
- ADJUST (E) VAULT TO GRADE (SEE NOTE 11)
- RELOCATE (E) UNITED STATES POSTAL SERVICE MAIL BOX
- REMOVE (E) FLEXIBLE DELINEATOR POST
- REMOVE (E) LIGHT POLE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTE 11)
- ADJUST (E) STORM DRAIN MANHOLE TO GRADE (SEE NOTE 11)
- RECONSTRUCT (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- ADJUST (E) MONITORING WELL TO GRADE (SEE NOTE 11)
- ADJUST (E) WATER VALVE TO GRADE (SEE NOTE 11)
- REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND EXISTING FLUSHING INLET (SEE NOTES 10 & 11)
- ADJUST (E) MONUMENT TO GRADE (SEE NOTE 11)
- ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)

KEY MAP

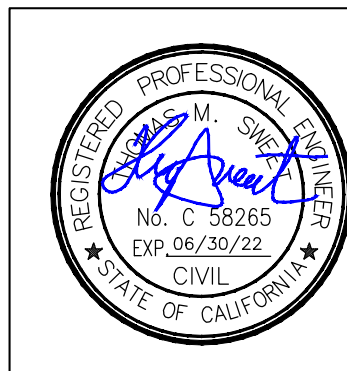


NOTES:

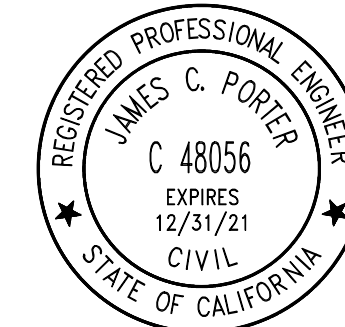
1. SEE SHEET G-3 FOR DEMOLITION NOTES.
2. SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK.
3. OUTSIDE FULL-WIDTH LIMITS OF ROADWAY AND SIDEWALK REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
4. REPAIRS WITHIN 2 FEET OF THE UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD. CONTRACTOR TO REMOVE AND REPLACE TRAFFIC LOOPS IMPACTED BY DEMOLITION WORK. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
5. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
6. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
7. SEE SHEETS ST-1 THROUGH ST-6 FOR (P) SIGN LOCATION.
8. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
9. SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
10. FROM STATION 16+60 SOUTHBOUND AND STATION 17+50 NORTHBOUND TO STATION 19+00, REMOVE 3" MIN (E) AC PAVEMENT BY PLANING AND PLACE NEW AC TO FINISHED GRADE (MATCH EXISTING).
11. FROM STA 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE) AND PLACE (N) AC 3" (MIN) TO PROPOSED FINISHED GRADE.
12. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE) AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).



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 300 California Street, Suite 600
 San Francisco, Ca 94104
 Tel: 415-796-8100
 fax: 415-796-8200



| | | |
|---|---|--------------------------------|
| DESIGNED BY: AB | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| DRAWN BY: AB | DEMOLITION PLAN | FILE NO.: 1/E4931 |
| ISSUE FOR BID: 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | D-3 (REV) SHEET 14 OF 140 |



APPROVED:

DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

LEGEND:

- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- REMOVE (E) AC PAVEMENT FULL DEPTH, 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- (P) VAULT LOCATIONS
- REMOVE (E) AC PAVEMENT FOR TRAFFIC SIGNAL AND TREE HOLIDAY LIGHT CONDUIT
- REMOVE AND REPLACE (E) VALLEY GUTTER

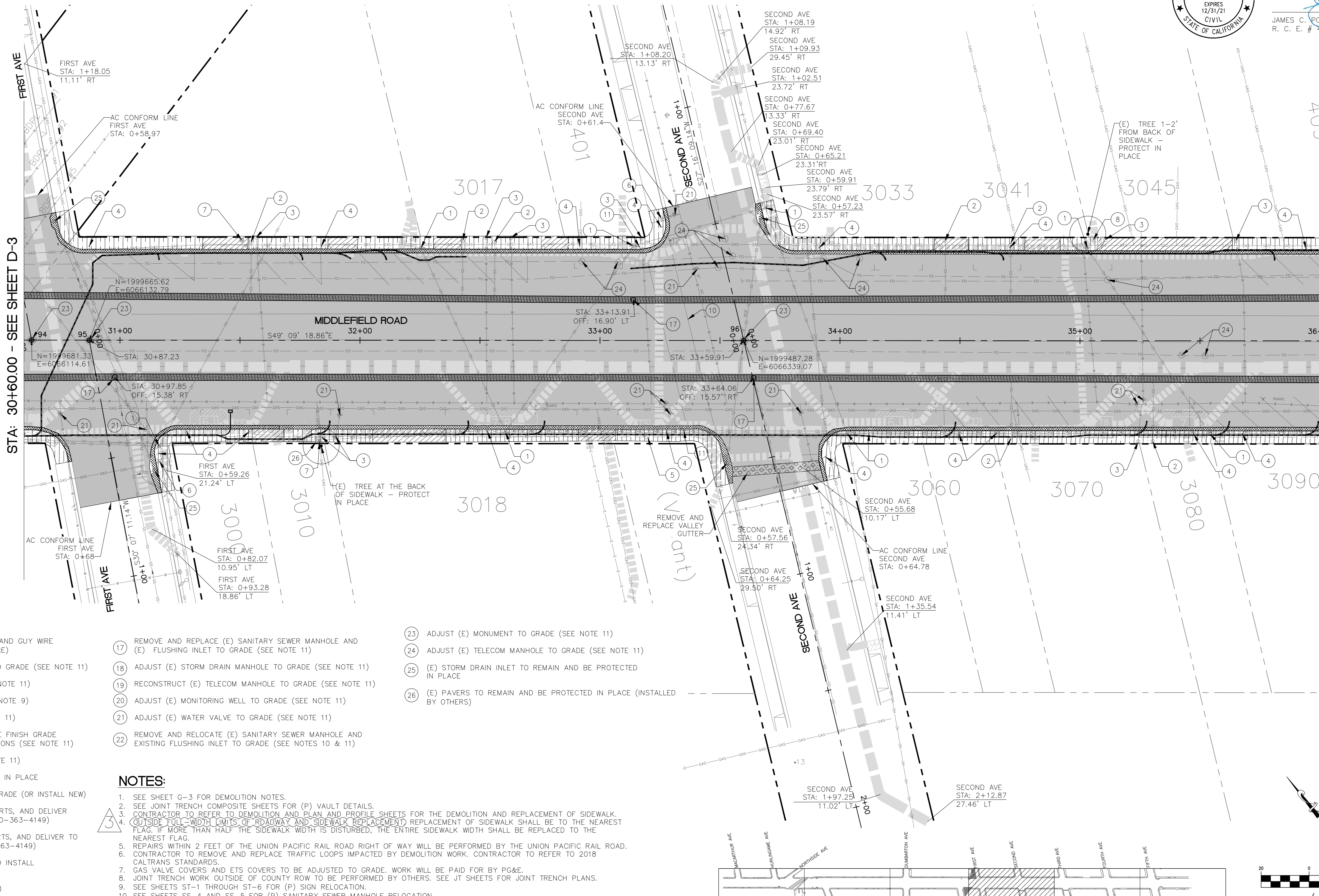
- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- 3 ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- 4 REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- 5 ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- 6 ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- 7 ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11)
- 8 (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- 9 REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- 10 REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 11 REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
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- 13 ADJUST (E) VAULT TO GRADE (SEE NOTE 11)
- 14 RELOCATE (E) UNITED STATES POSTAL SERVICE MAIL BOX
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- 17 REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTE 11)
- 18 ADJUST (E) STORM DRAIN MANHOLE TO GRADE (SEE NOTE 11)
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- 22 REMOVE AND RELOCATE (E) SANITARY SEWER MANHOLE AND EXISTING FLUSHING INLET TO GRADE (SEE NOTES 10 & 11)
- 23 ADJUST (E) MONUMENT TO GRADE (SEE NOTE 11)
- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)

NOTES:

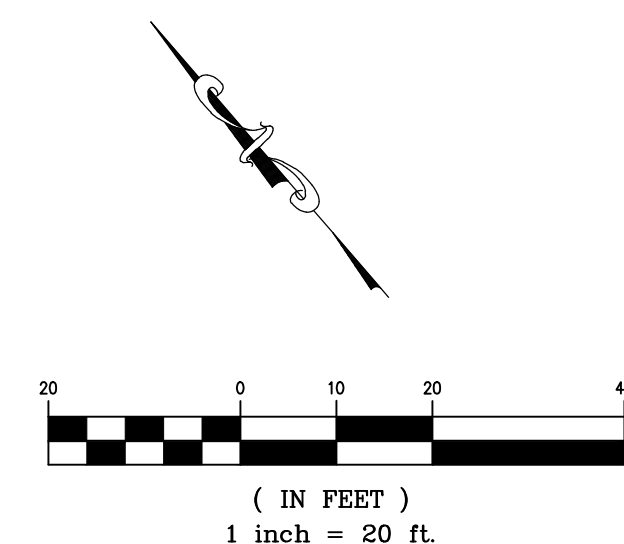
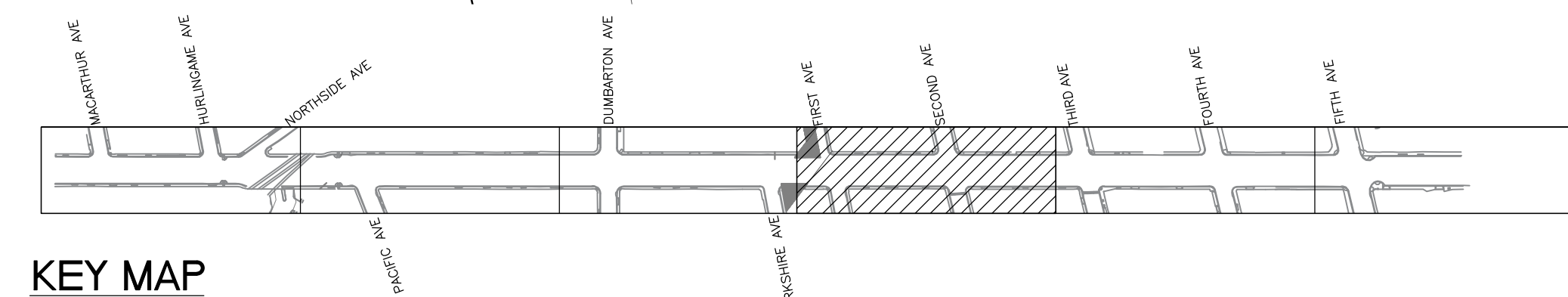
1. SEE SHEET G-3 FOR DEMOLITION NOTES.
2. SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS.
3. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK.
4. OUTSIDE FULL-WIDTH LIMITS OF ROADWAY AND SIDEWALK REPLACEMENT, REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
5. REPAIRS WITHIN 2 FEET OF THE UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD. CONTRACTOR TO REMOVE AND REPLACE TRAFFIC LOOPS IMPACTED BY DEMOLITION WORK. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
6. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
7. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
8. SEE SHEETS ST-1 THROUGH ST-6 FOR (P) SIGN RELOCATION.
9. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
10. SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
11. FROM STATION 16+60 SOUTH BOUND AND STATION 17+50 NORTH BOUND TO STATION 19+00, PLANE 3" MIN (E) AC PAVEMENT AND PLACE 3" MIN (N) AC TO FINISHED GRADE (MATCH EXISTING).
12. FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE AND PLACE 3" MIN (N) AC TO PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
13. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED GRADING AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).

STA: 30+60.00 - SEE SHEET D-3

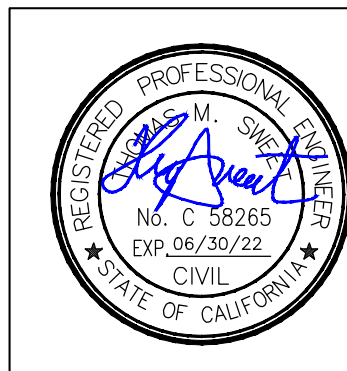
STA: 36+00.00 - SEE SHEET D-5



KEY MAP

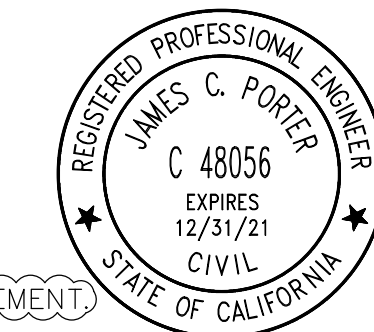


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 300 California Street, Suite 600
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 fax: 415-796-8200



| | | |
|---|---|--------------------------------|
| DESIGNED BY: AB | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| DRAWN BY: AB | DEMOLITION PLAN | FILE NO: 1/E4931 |
| ISSUE FOR BID: 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | D-4 (REV) SHEET 15 OF 140 |

FILENAME: \\VAACOMNET\COM\US\AMER\SANFRANCISCO\US\SF\DCS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETS\SCAPE\000_CAD\SHEETS\DEMOLITION PLAN - D-04.DWG (0-04)



LEGEND:

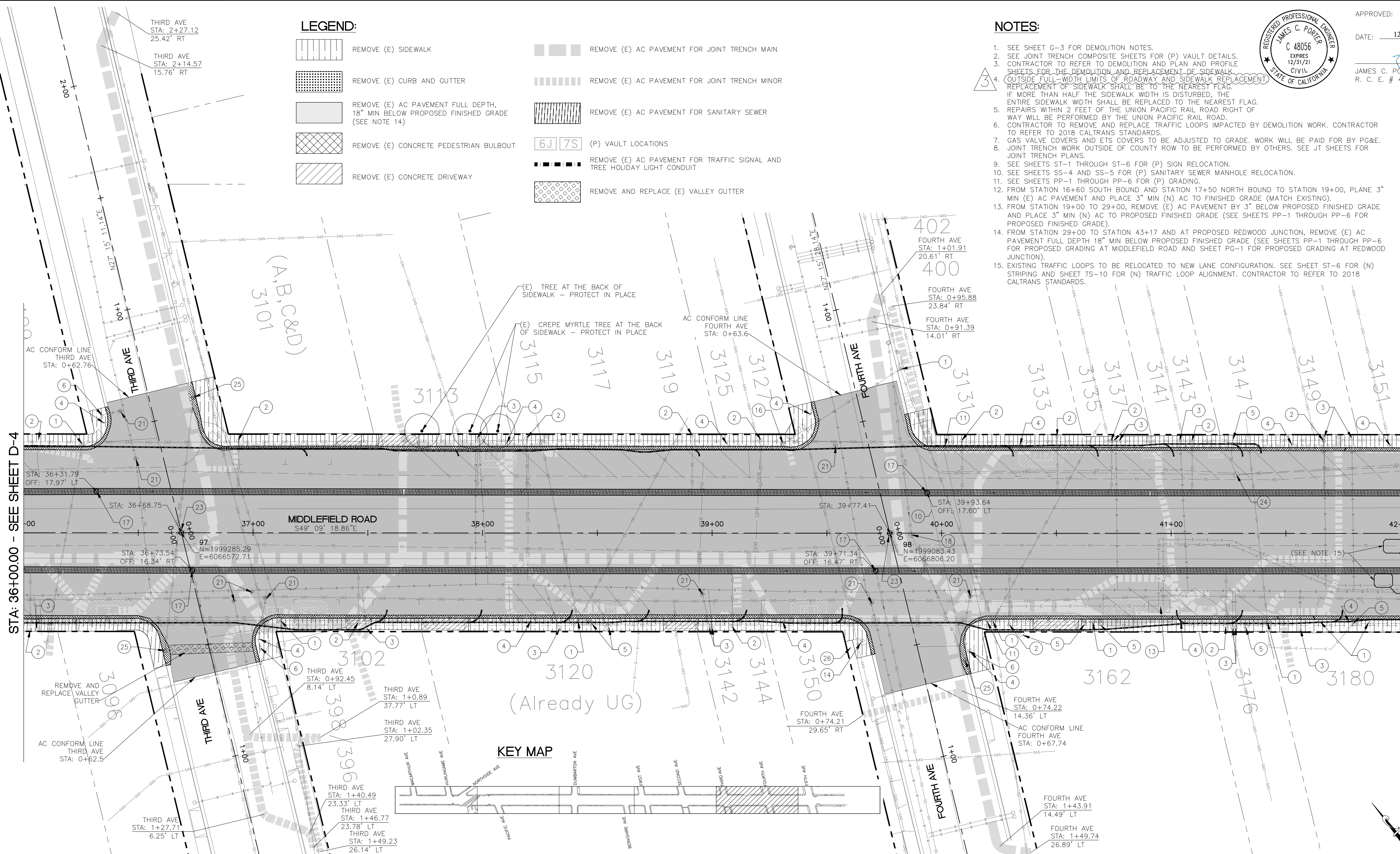
- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- REMOVE (E) AC PAVEMENT FULL DEPTH, 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- (P) VAULT LOCATIONS
- REMOVE (E) AC PAVEMENT FOR TRAFFIC SIGNAL AND TREE HOLIDAY LIGHT CONDUIT
- REMOVE AND REPLACE (E) VALLEY GUTTER

NOTES:

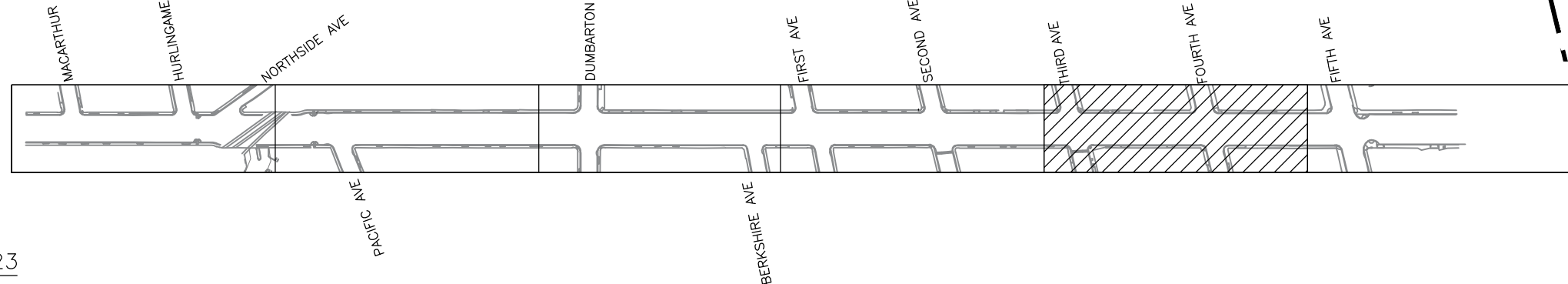
- SEE SHEET G-3 FOR DEMOLITION NOTES.
- SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS.
- CONTRACTOR TO REFER TO DEMOLITION PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
- REPAIRS WITHIN 2 FEET OF THE UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD.
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- GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
- JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
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- SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
- SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
- FROM STATION 16+60 SOUTH BOUND AND STATION 17+50 NORTH BOUND TO STATION 19+00, PLACE 3" MIN (E) AC PAVEMENT AND PLACE 3" MIN (N) AC TO FINISHED GRADE (MATCH EXISTING).
- FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE AND PLACE 3" MIN (N) AC TO PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
- FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED GRADING AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).
- EXISTING TRAFFIC LOOPS TO BE RELOCATED TO NEW LANE CONFIGURATION. SEE SHEET ST-6 FOR (N) STRIPING AND SHEET TS-10 FOR (N) TRAFFIC LOOP ALIGNMENT. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.

STA: 36+00.00 - SEE SHEET D-4

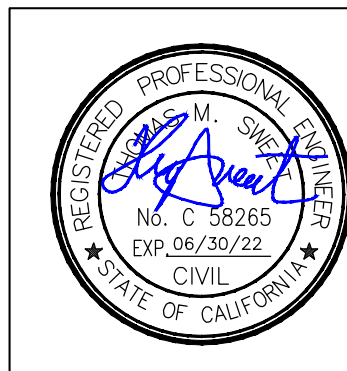
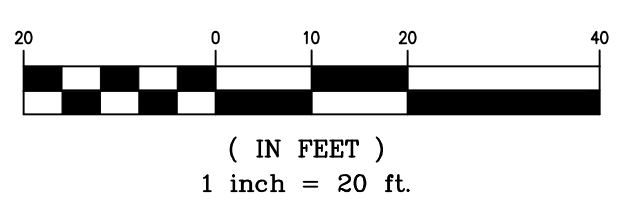
STA: 42+00.00 - SEE SHEET D-6



KEY MAP

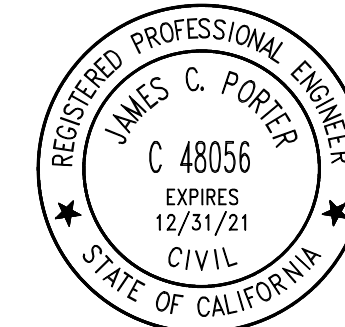


- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- 3 ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- 4 REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- 5 ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- 6 ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- 7 ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11)
- 8 (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- 9 REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- 10 REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 11 REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 12 UPRR TO REMOVE (E) RAILROAD SIGNAL AND INSTALL (N) SIGNAL
- 13 ADJUST (E) VAULT TO GRADE (SEE NOTE 11)
- 14 RELOCATE (E) UNITED STATES POSTAL SERVICE MAIL BOX
- 15 REMOVE (E) FLEXIBLE DELINEATOR POST
- 16 REMOVE (E) LIGHT POLE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 17 REMOVE AND REPLACE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTE 11)
- 18 ADJUST (E) STORM DRAIN MANHOLE TO GRADE (SEE NOTE 11)
- 19 RECONSTRUCT (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 20 ADJUST (E) MONITORING WELL TO GRADE (SEE NOTE 11)
- 21 ADJUST (E) WATER VALVE TO GRADE (SEE NOTE 11)
- 22 REMOVE AND RELOCATE (E) SANITARY SEWER MANHOLE AND (E) FLUSHING INLET TO GRADE (SEE NOTES 10 & 11)
- 23 ADJUST (E) MONUMENT TO GRADE (SEE NOTE 11)
- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS).



| | | | | |
|---|---|--|------------------|------------------------------|
| DESIGNED BY: AB | CHECKED BY: TS | COUNTY OF SAN MATEO MIDDLEFIELD ROAD IMPROVEMENT PROJECT | | SCALE: AS SHOWN |
| ADDENDUM 12-23-20 | DRAWN BY: AB | DEMOLITION PLAN | | DATE: 10-16-2020 |
| ISSUE FOR BID 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY | | FILE NO: 1/E4931 | |
| REVISION | DATE | 555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063 | | D-5 (REV) SHEET 16 OF 140 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | | | |

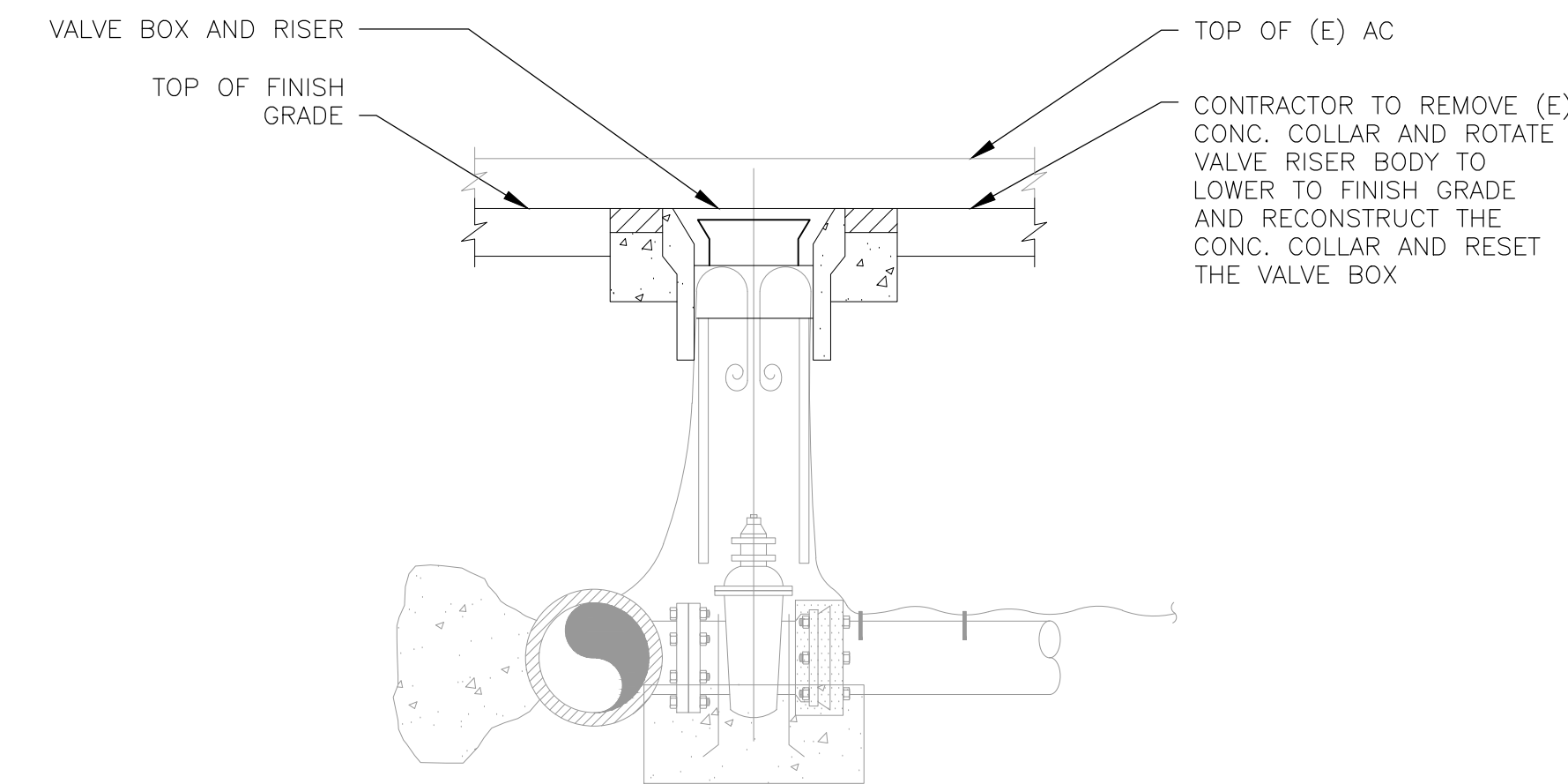
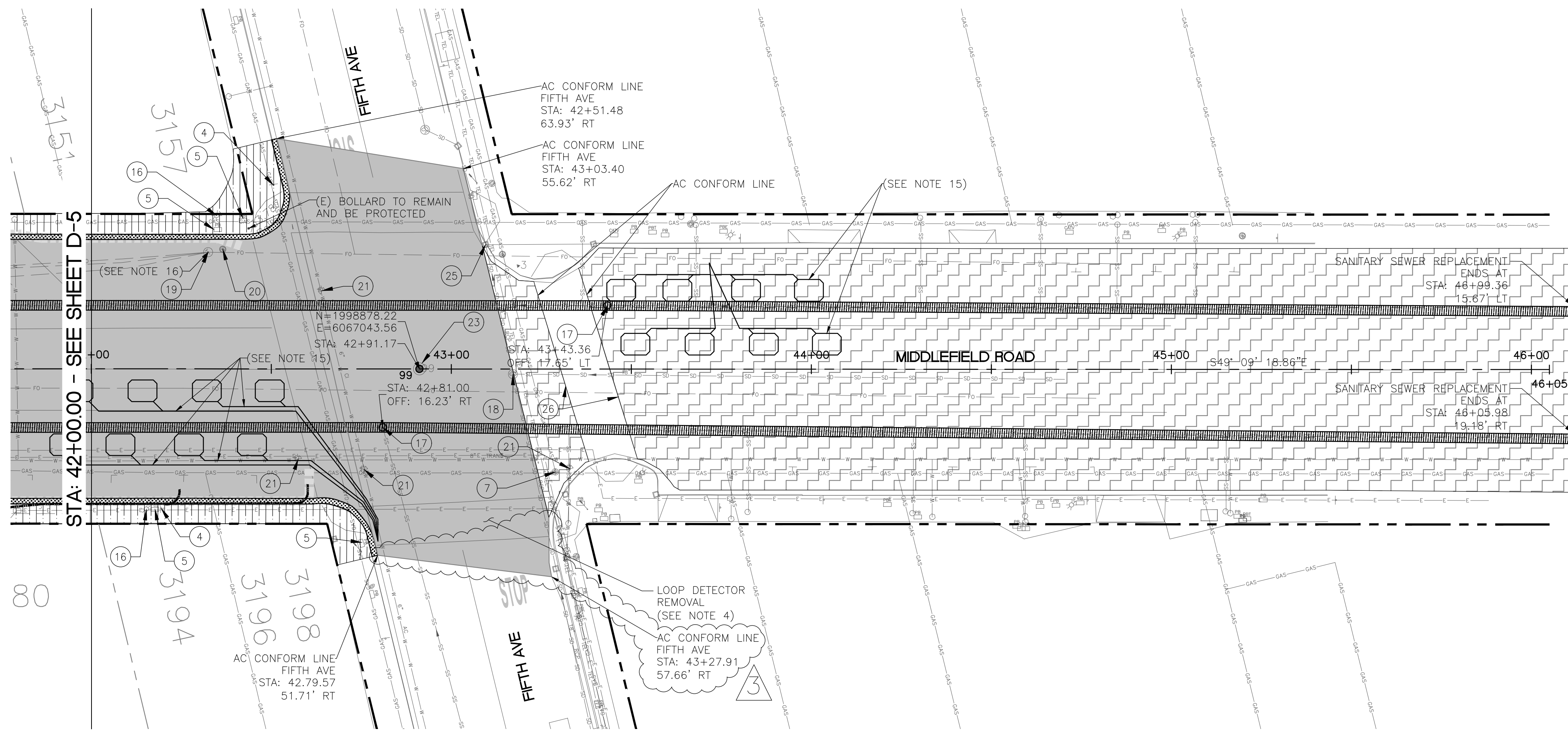
FILENAME: \\AECOM\NET\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETScape\000_CAD\SHEETS\DEMOLITION PLAN - D-05.DWG (0-05)



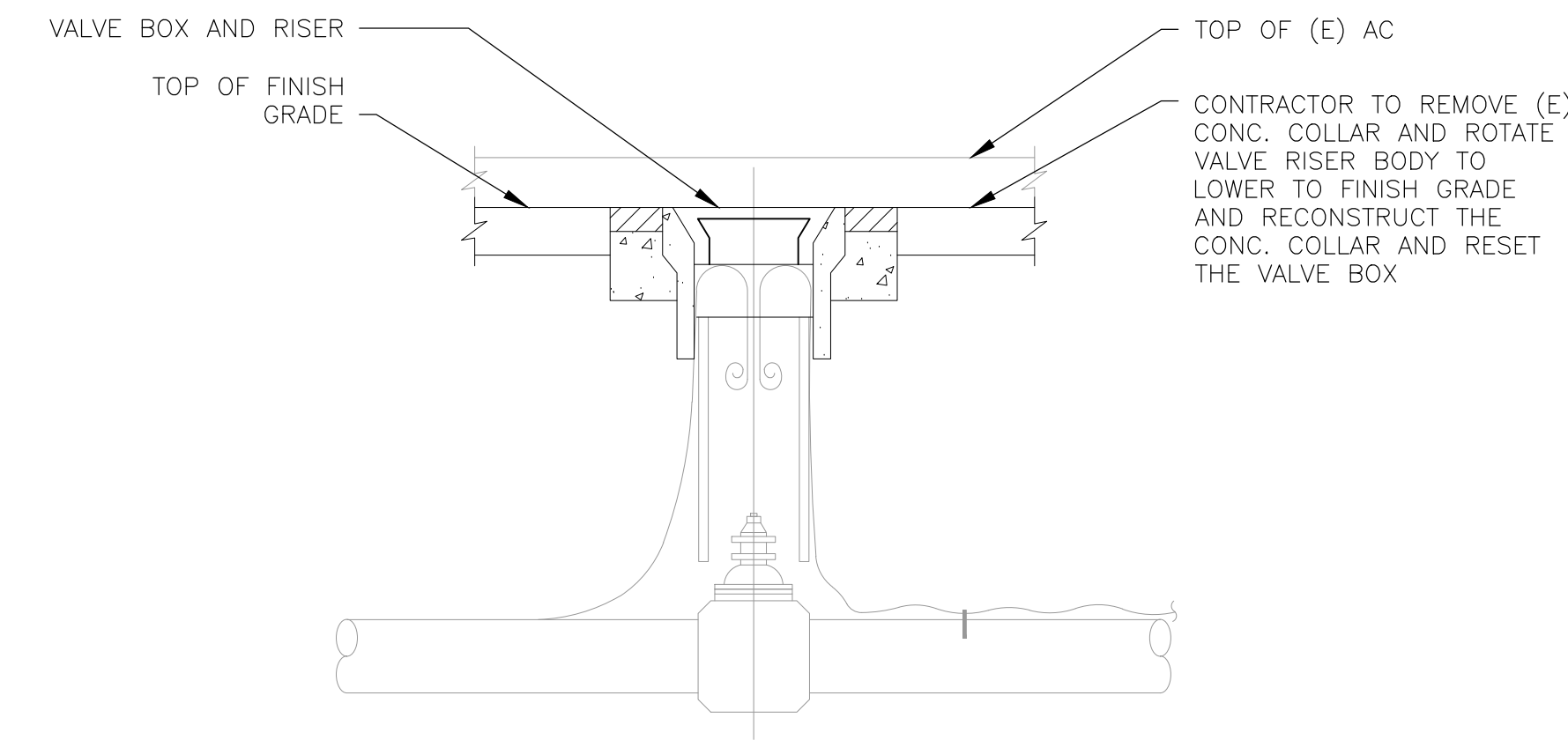
APPROVED:

DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



1 WATER VALVE ADJUSTMENT
D-6 NOT TO SCALE



2 GAS VALVE ADJUSTMENT
D-6 NOT TO SCALE

LEGEND:

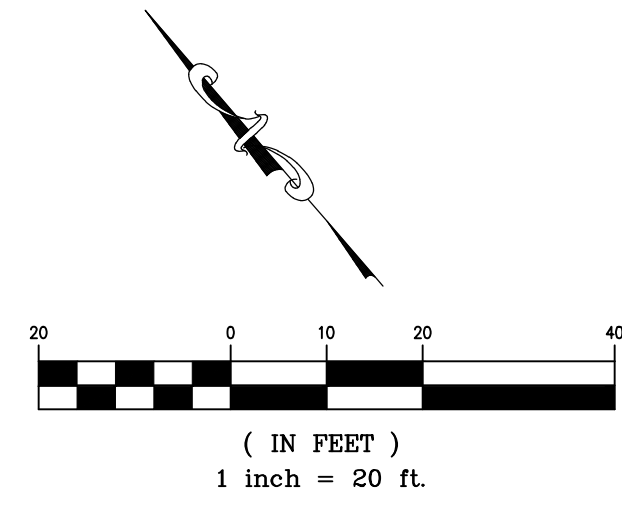
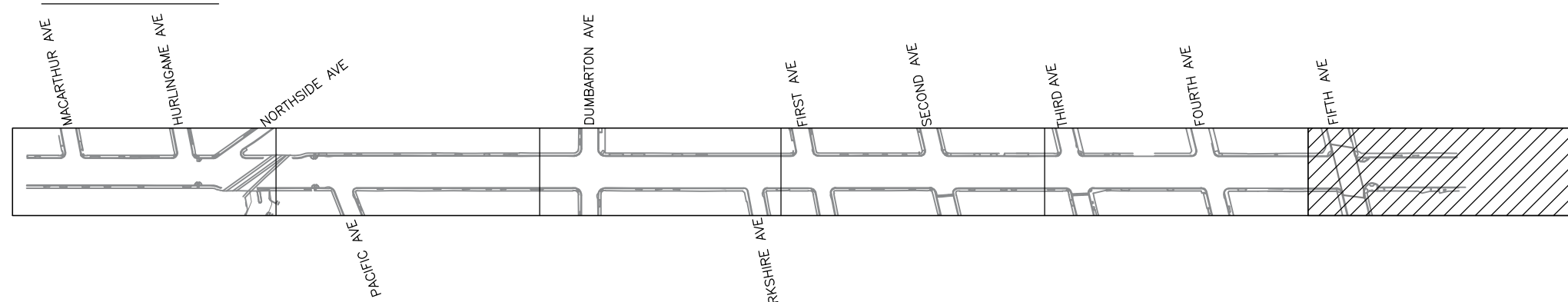
- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- REMOVE (E) AC PAVEMENT 2" (SEE NOTE 17)
- REMOVE (E) AC PAVEMENT FULL DEPTH, 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- REMOVE (E) CONCRETE PEDESTRIAN BULBOUT
- REMOVE (E) CONCRETE DRIVEWAY
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) AC PAVEMENT FOR TRAFFIC SIGNAL AND TREE HOLIDAY LIGHT CONDUIT

- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
- 3 ADJUST (E) WATER METER TO GRADE (SEE NOTE 11)
- 4 REMOVE AND RESET (E) STREET SIGN (SEE NOTE 9)
- 5 ADJUST (E) PULL BOX TO GRADE (SEE NOTE 11)
- 6 ADJUST (E) FIRE HYDRANT TO GRADE WHERE FINISH GRADE IS ABOVE ABOVE-GRADE FLANGED CONNECTIONS (SEE NOTE 11)
- 7 ADJUST (E) GAS VALVE TO GRADE (SEE NOTE 11 & DETAIL 2/D-6)
- 8 (E) OPERABLE PAYPHONE TO BE PROTECTED IN PLACE
- 9 REMOVE AND RELOCATE (E) DRAIN INLET TO GRADE (OR INSTALL NEW)
- 10 REMOVE (E) LIGHTED CROSSWALK, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
- 11 REMOVE (E) PEDESTRIAN SIGNAL, LABEL PARTS, AND DELIVER TO GRANT YARD (CONTACT: JEFF PACINI 650-363-4149)
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- 15 REMOVE (E) FLEXIBLE DELINEATOR POST
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- 19 RECONSTRUCT (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
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- 21 ADJUST (E) WATER VALVE TO GRADE (SEE NOTE 11 & DETAIL 1/D-6)
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- 23 ADJUST (E) MONUMENT TO GRADE
- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)

NOTES:

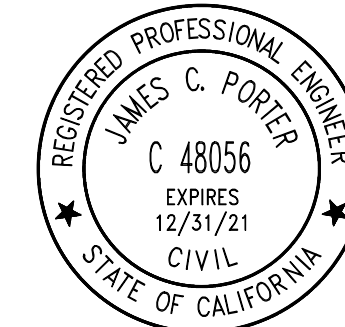
- 1. SEE SHEET G-3 FOR DEMOLITION NOTES.
- 2. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK.
- 3. REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
- 4. OUTSIDE FULL-WIDTH LIMITS OF ROADWAY AND SIDEWALK REPLACEMENT, CONTRACTOR TO REMOVE AND REPLACE TRAFFIC LOOPS IMPACTED BY DEMOLITION WORK. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
- 5. REPAIRS WITHIN 2 FEET OF THE UNION PACIFIC RAIL ROAD RIGHT OF WAY WILL BE PERFORMED BY THE UNION PACIFIC RAIL ROAD.
- 6. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK WILL BE PAID FOR BY PG&E.
- 7. EXISTING PAVER CROSSWALK ON MIDDLEFIELD ROAD TO BE PROTECTED AND REMAIN IN PLACE.
- 8. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
- 9. SEE SHEETS ST-1 THROUGH ST-6 FOR (P) SIGN RELOCATION.
- 10. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
- 11. SEE SHEETS PP-1 THROUGH PP-6 FOR (P) GRADING.
- 12. FROM STATION 16+60 SOUTH BOUND AND STATION 17+50 NORTH BOUND TO STATION 19+00, PLACE 3" MIN (E) AC PAVEMENT AND PLACE 3" MIN (N) AC TO FINISHED GRADE (MATCH EXISTING).
- 13. FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE AND PLACE 3" MIN (N) AC TO PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
- 14. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED GRADING AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).
- 15. EXISTING TRAFFIC LOOPS TO BE RELOCATED TO NEW LANE CONFIGURATION. SEE SHEET ST-6 FOR (N) STRIPING AND SHEET TS-10 FOR (N) TRAFFIC LOOP ALIGNMENT. CONTRACTOR TO REFER TO 2018 CALTRANS STANDARDS.
- 16. RELOCATE AND RECONSTRUCT (E) TELECOM MANHOLE OUTSIDE OF (N) PLANTER WALL AND ADJUST TO PROPOSED GRADE. SEE SHEET GI-5 FOR (N) PLANTER AND SHEET PP-6 FOR PROPOSED GRADING.
- 17. REMOVE 2" MINIMUM (E) AC PAVEMENT BY PLANING AND PLACE NEW AC TO FINISHED GRADE (MATCH EXISTING).

KEY MAP



| | | | | |
|---|------|---|---|------------------------------|
| | | DESIGNED BY: AB | COUNTY OF SAN MATEO MIDDLEFIELD ROAD IMPROVEMENT PROJECT DEMOLITION PLAN | SCALE: AS SHOWN |
| | | CHECKED BY: TS | | DATE: 10-16-2020 |
| ADDENDUM 12-23-20 | | DRAWN BY: AB | 555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063 | FILE NO.: 1/E4931 |
| ISSUE FOR BID | DATE | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY | | |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | 0 1 2 3 4 | | D-6 (REV) SHEET 17 OF 140 |

FILENAME: \\VA.AECOM\NET\COM\US\SF\AMER\SANFRANCISCO\US\SF\DCS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETS\SCAPE\001_CAD\SHEETS\DEMOLITION PLAN -- D-06.DWG (D-06)



APPROVED:

DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

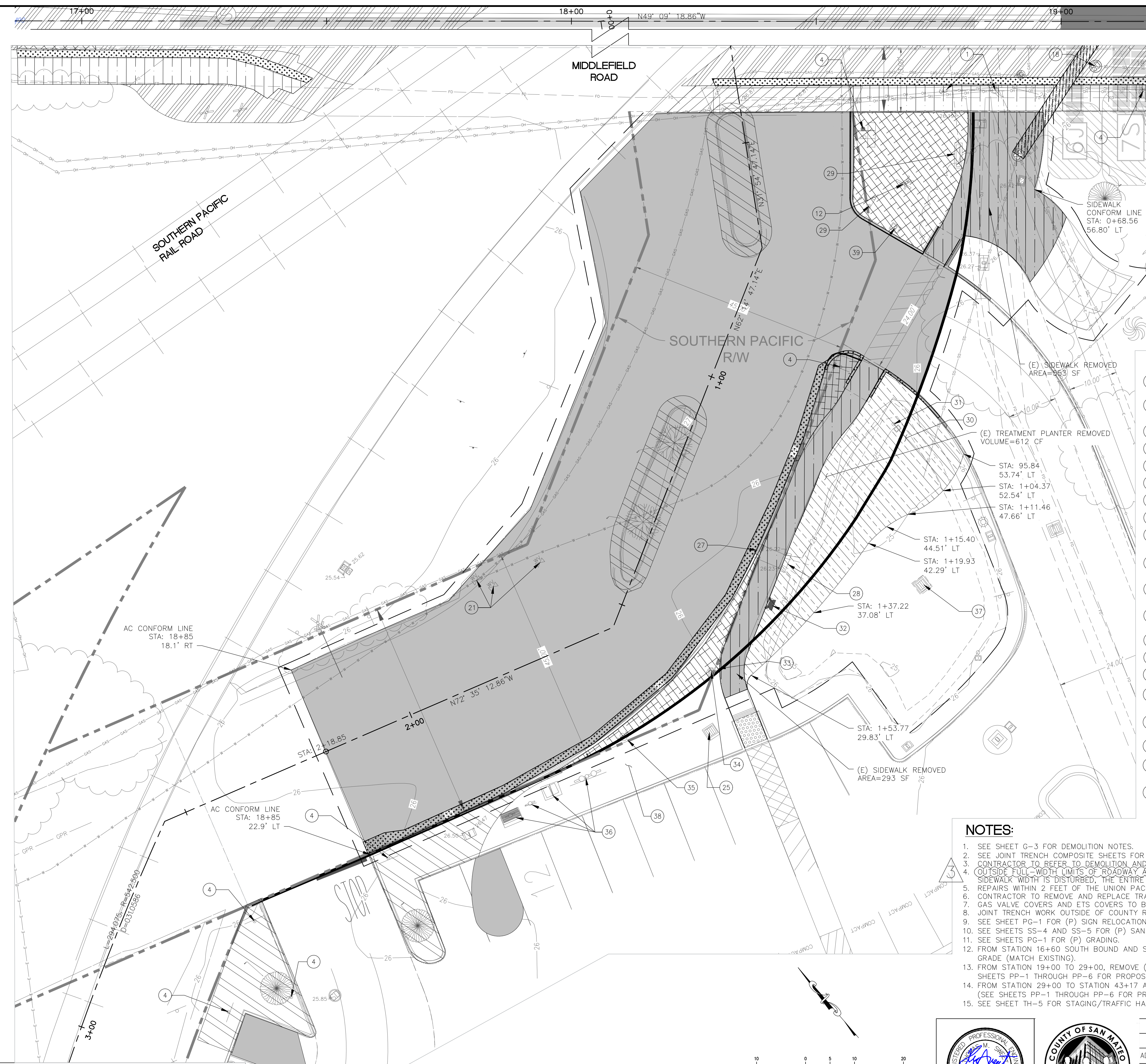
LEGEND:

- REMOVE (E) SIDEWALK
- REMOVE (E) CURB AND GUTTER
- PLANE 3" MIN (E) AC PAVEMENT (SEE NOTE 12)
- REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE NOTE 14)
- PLANE (E) PAVEMENT TO 3" BELOW PROPOSED FINISHED GRADE (SEE NOTE 13)
- REMOVE (E) MEDIAN
- REMOVE (E) TREATMENT PLANTER
- REMOVE (E) CONCRETE DRIVEWAY
- LIMITS OF WORK
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MAIN
- REMOVE (E) AC PAVEMENT FOR JOINT TRENCH MINOR
- REMOVE (E) AC PAVEMENT FOR SANITARY SEWER
- CLEAR AND GRUB VEGETATION
- (P) VAULT LOCATIONS

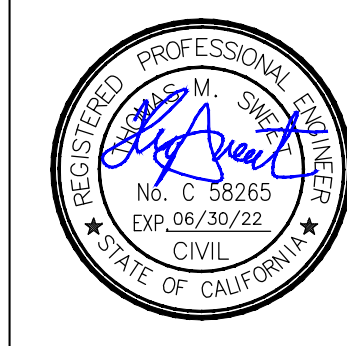
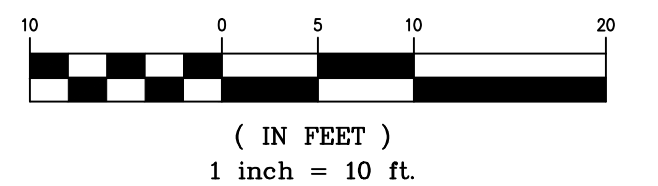
- 1 REMOVE (E) OVERHEAD JOINT UTILITY POLE AND GUY WIRE (BY OTHERS, TO BE COORDINATED WITH PG&E)
- 2 ADJUST (E) SANITARY SEWER CLEAN OUT TO GRADE (SEE NOTE 11)
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- 24 ADJUST (E) TELECOM MANHOLE TO GRADE (SEE NOTE 11)
- 25 (E) STORM DRAIN INLET TO REMAIN AND BE PROTECTED IN PLACE
- 26 (E) PAVERS TO REMAIN AND BE PROTECTED IN PLACE (INSTALLED BY OTHERS)
- 27 RELOCATE (E) THROUGH CURB AND SIDEWALK OPENING
- 28 REMOVE (E) ROCK SLOPE PROTECTION
- 29 RELOCATE (E) FAIR OAKS HEALTH CENTER SIGN AND CONDUIT BOX TO NEW LANDSCAPE AREA
- 30 REMOVE (E) SURFACE IRRIGATION WITHIN FILLZONE (6± HOSES)
- 31 RELOCATE (E) CLEANOUT AS SHOWN ON (E) UD
- 32 RELOCATE (E) FIRE DEPARTMENT CONNECTION 15± SOUTH (12" MIN. BEHIND SIDEWALK)
- 33 RELOCATE (E) WATER VALVE
- 34 RELOCATE (E) BOLLARD
- 35 RELOCATE (E) FIRE HYDRANT 3'+ (18" MIN. BEHIND FC)
- 36 PROTECT-IN-PLACE (E) IRRIGATION METER, DOMESTIC BACKFLOW DEVICE, DOMESTIC WATER METERS, AND FIRE BACKFLOW DEVICE
- 37 PROTECT-IN-PLACE (E) STORM DRAIN OUTLET
- 38 CONTRACTOR TO MAINTAIN (E) LANDSCAPE AND PROTECT-IN-PLACE, AND RECONSTRUCT IRRIGATION HEADS
- 39 RELOCATE (E) PULL BOX

NOTES:

1. SEE SHEET G-3 FOR DEMOLITION NOTES.
2. SEE JOINT TRENCH COMPOSITE SHEETS FOR (P) VAULT DETAILS.
3. CONTRACTOR TO REFER TO DEMOLITION AND PLAN AND PROFILE SHEETS FOR THE DEMOLITION AND REPLACEMENT OF SIDEWALK.
4. OUTSIDE FULL-WIDTH LIMITS OF ROADWAY AND SIDEWALK REPLACEMENT, REPLACEMENT OF SIDEWALK SHALL BE TO THE NEAREST FLAG. IF MORE THAN HALF THE SIDEWALK WIDTH IS DISTURBED, THE ENTIRE SIDEWALK WIDTH SHALL BE REPLACED TO THE NEAREST FLAG.
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7. GAS VALVE COVERS AND ETS COVERS TO BE ADJUSTED TO GRADE. WORK TO BE PAID FOR BY PG&E.
8. JOINT TRENCH WORK OUTSIDE OF COUNTY ROW TO BE PERFORMED BY OTHERS. SEE JT SHEETS FOR JOINT TRENCH PLANS.
9. SEE SHEET PG-1 FOR (P) SIGN RELOCATION.
10. SEE SHEETS SS-4 AND SS-5 FOR (P) SANITARY SEWER MANHOLE RELOCATION.
11. SEE SHEETS PG-1 FOR (P) GRADING.
12. FROM STATION 16+60 SOUTH BOUND AND STATION 17+50 NORTH BOUND TO STATION 19+00, PLANE 3" MIN (E) AC PAVEMENT AND PLACE 3" MIN (N) AC TO FINISHED GRADE (MATCH EXISTING).
13. FROM STATION 19+00 TO 29+00, REMOVE (E) AC PAVEMENT BY 3" BELOW PROPOSED FINISHED GRADE AND PLACE 3" MIN (N) AC TO PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED FINISHED GRADE).
14. FROM STATION 29+00 TO STATION 43+17 AND AT PROPOSED REDWOOD JUNCTION, REMOVE (E) AC PAVEMENT FULL DEPTH 18" MIN BELOW PROPOSED FINISHED GRADE (SEE SHEETS PP-1 THROUGH PP-6 FOR PROPOSED GRADING AT MIDDLEFIELD ROAD AND SHEET PG-1 FOR PROPOSED GRADING AT REDWOOD JUNCTION).
15. SEE SHEET TH-5 FOR STAGING/TRAFFIC HANDLING.

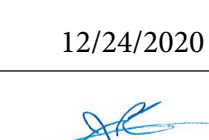


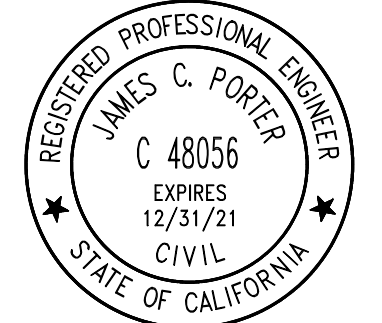
AECOM
 300 California Street, Suite 600
 San Francisco, Ca 94104
 Tel: 415-796-8100
 fax: 415-796-8200



| | | | | |
|---|----------|---|--------------------------------|-------------------|
| DESIGNED BY: AB | | COUNTY OF SAN MATEO | | SCALE: AS SHOWN |
| CHECKED BY: TS | | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | | DATE: 10-16-2020 |
| DRAWN BY: AB | | REDWOOD JUNCTION DEMOLITION | | FILE NO.: 1/E4931 |
| ISSUE FOR BID | 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR | |
| REVISION | DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 | |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | | D-7 (REV) | |
| | | | SHEET 18 OF 140 | |

FILENAME: \\NAECOMNET\COM\US\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETScape\000_CAD\00_SHEETS\DEMOLITION PLAN - D-07.DWG (0-7)

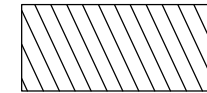
APPROVED: 
 DATE: 12/24/2020
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 R. C. E. # 48056 / EXPIRES 12-31-2021

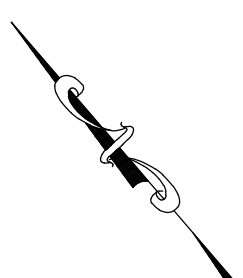


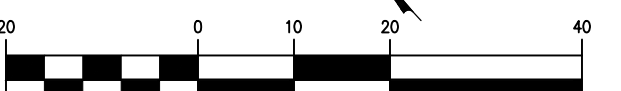
STA: 18+50.00 - SEE SHEET PP-2

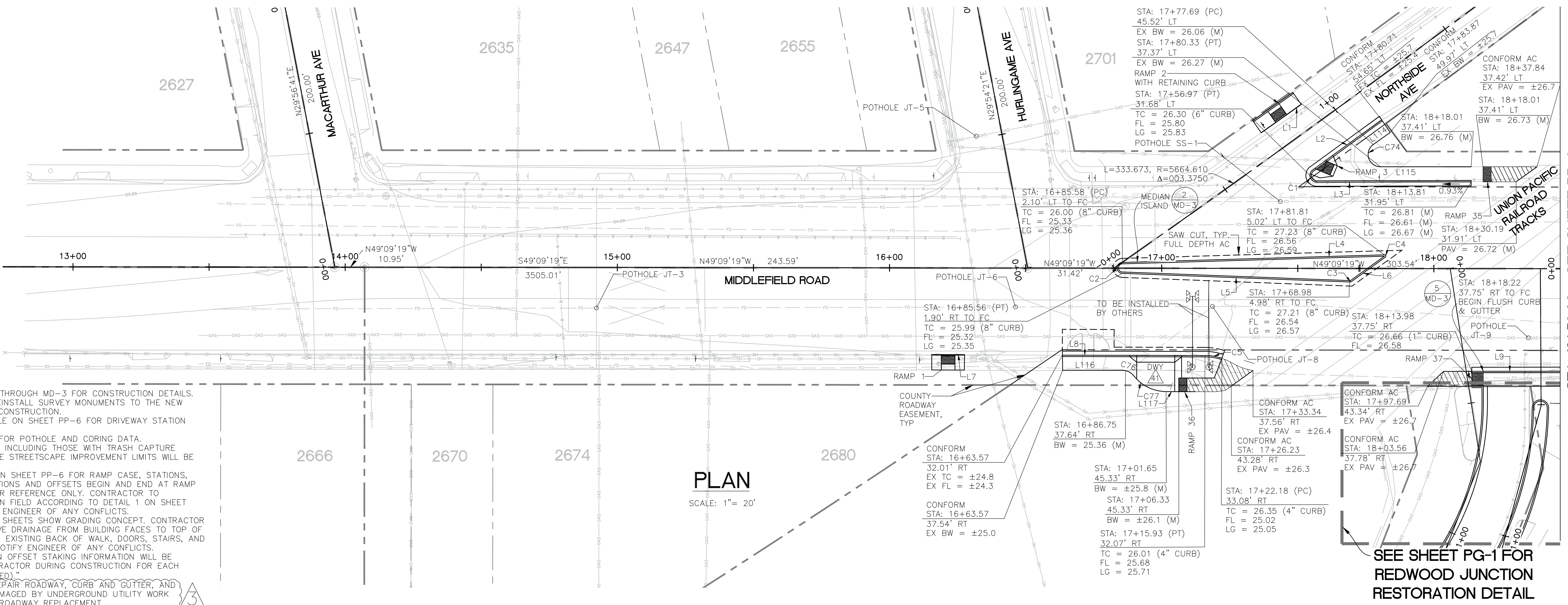
| Curve # | Length | Radius | Delta |
|---------|--------|--------|------------|
| C1 | 6.28' | 2.50' | 143°59'18" |
| C2 | 6.15' | 2.00' | 176°08'54" |
| C3 | 0.66' | 1.00' | 037°49'58" |
| C4 | 1.27' | 0.50' | 146°01'07" |
| C5 | 6.36' | 20.00' | 018°12'43" |
| C74 | 11.34' | 4.50' | 144°21'20" |
| C75 | 10.80' | 20.00' | 030°56'30" |
| C76 | 4.65' | 5.12' | 051°58'15" |
| C77 | 13.68' | 15.12' | 051°50'01" |

LEGEND:

 AC PAVEMENT (SEE DETAIL 4/MD-2)

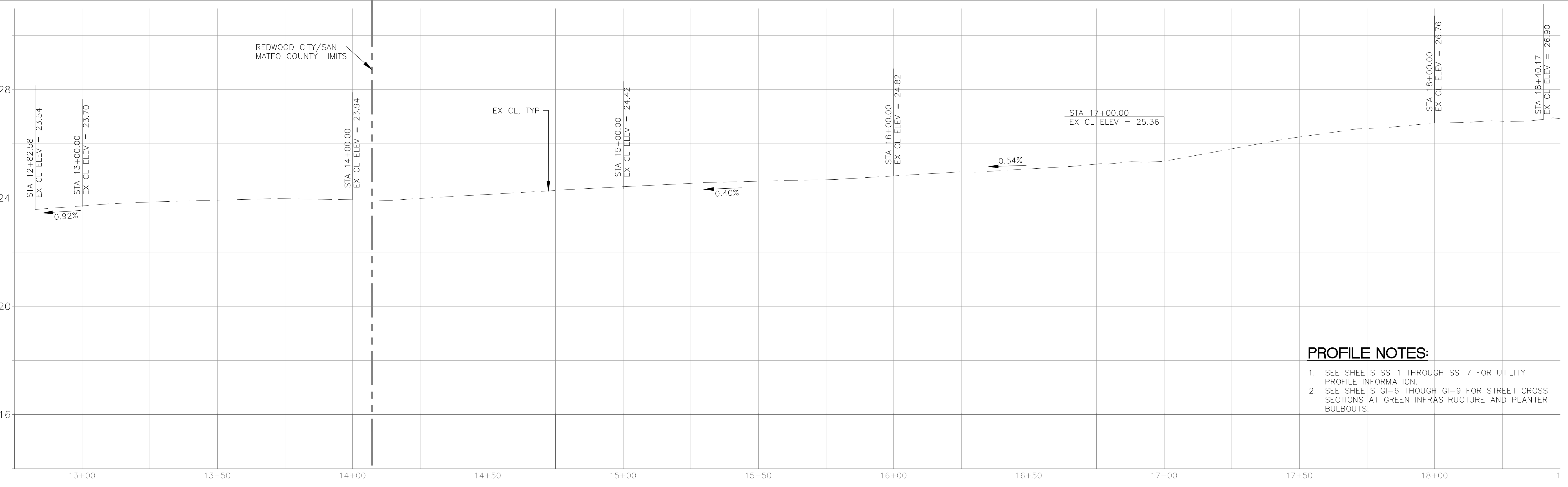



 (IN FEET)
 1 inch = 20 ft.



- NOTES:**
- SEE SHEETS MD-1 THROUGH MD-3 FOR CONSTRUCTION DETAILS.
 - CONTRACTOR TO REINSTALL SURVEY MONUMENTS TO THE NEW ELEVATIONS POST-CONSTRUCTION.
 - SEE DRIVEWAY TABLE ON SHEET PP-6 FOR DRIVEWAY STATION AND OFFSET.
 - SEE SHEET PP-12 FOR POTHOLE AND CORING DATA.
 - ALL CATCH BASINS, INCLUDING THOSE WITH TRASH CAPTURE DEVICES, WITHIN THE STREETSCAPE IMPROVEMENT LIMITS WILL BE PROTECTED.
 - SEE RAMP TABLE ON SHEET PP-6 FOR RAMP CASE, STATIONS, AND OFFSETS. STATIONS AND OFFSETS BEGIN AND END AT RAMP WINGS AND ARE FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT RAMP IN FIELD ACCORDING TO DETAIL 1 ON SHEET MD-2, AND NOTIFY ENGINEER OF ANY CONFLICTS.
 - PLAN AND PROFILE SHEETS SHOW GRADING CONCEPT. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FROM BUILDING FACES TO TOP OF CURB AND CONFIRM EXISTING BACK OF WALK, DOORS, STAIRS, AND ENTRYWAYS, AND NOTIFY ENGINEER OF ANY CONFLICTS.
 - ADDITIONAL STATION OFFSET STAKING INFORMATION WILL BE PROVIDED TO CONTRACTOR DURING CONSTRUCTION FOR EACH BULBOUT (AS NEEDED).
 - CONTRACTOR TO REPAIR ROADWAY, CURB AND GUTTER, AND SIDEWALK AREA DAMAGED BY UNDERGROUND UTILITY WORK BEYOND LIMITS OF ROADWAY REPLACEMENT.

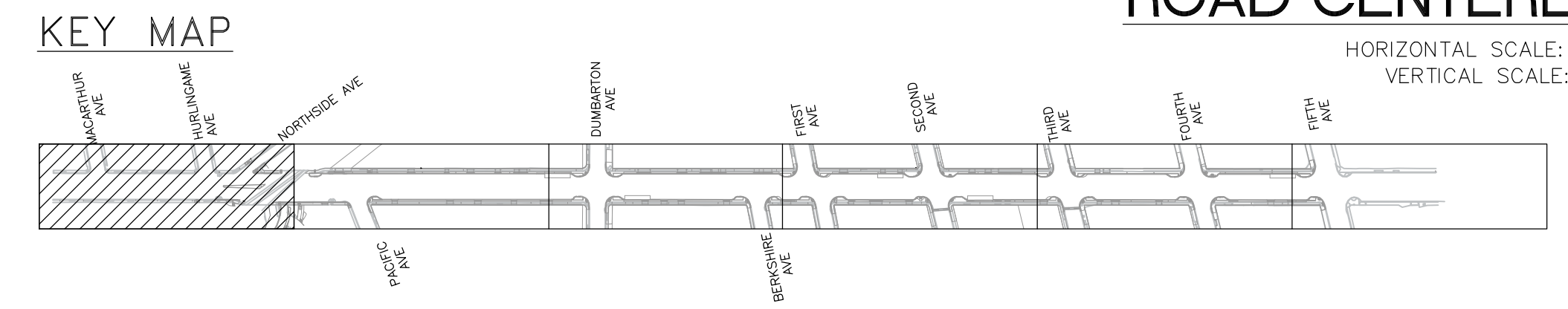
SEE SHEET PG-1 FOR REDWOOD JUNCTION RESTORATION DETAIL



| Line # | Length |
|--------|---------|
| L1 | 18.00' |
| L2 | 31.26' |
| L3 | 56.69' |
| L4 | 96.28' |
| L5 | 83.60' |
| L6 | 15.26' |
| L7 | 12.06' |
| L8 | 52.37' |
| L9 | 158.45' |
| L114 | 7.62' |
| L115 | 23.64' |
| L116 | 22.10' |
| L117 | 4.51' |

- PROFILE NOTES:**
- SEE SHEETS SS-1 THROUGH SS-7 FOR UTILITY PROFILE INFORMATION.
 - SEE SHEETS GI-6 THROUGH GI-9 FOR STREET CROSS SECTIONS AT GREEN INFRASTRUCTURE AND PLANTER BULBOUTS.

AECOM
 300 California Street, Suite 600
 San Francisco, Ca 94104
 Tel: 415-796-8100
 fax: 415-796-8200



DESIGNED BY: EA
 CHECKED BY: TS
 DRAWN BY: EA

ADDENDUM 12-23-20
 ISSUE FOR BID 10-16-20
 REVISION DATE

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 SAN MATEO COUNTY

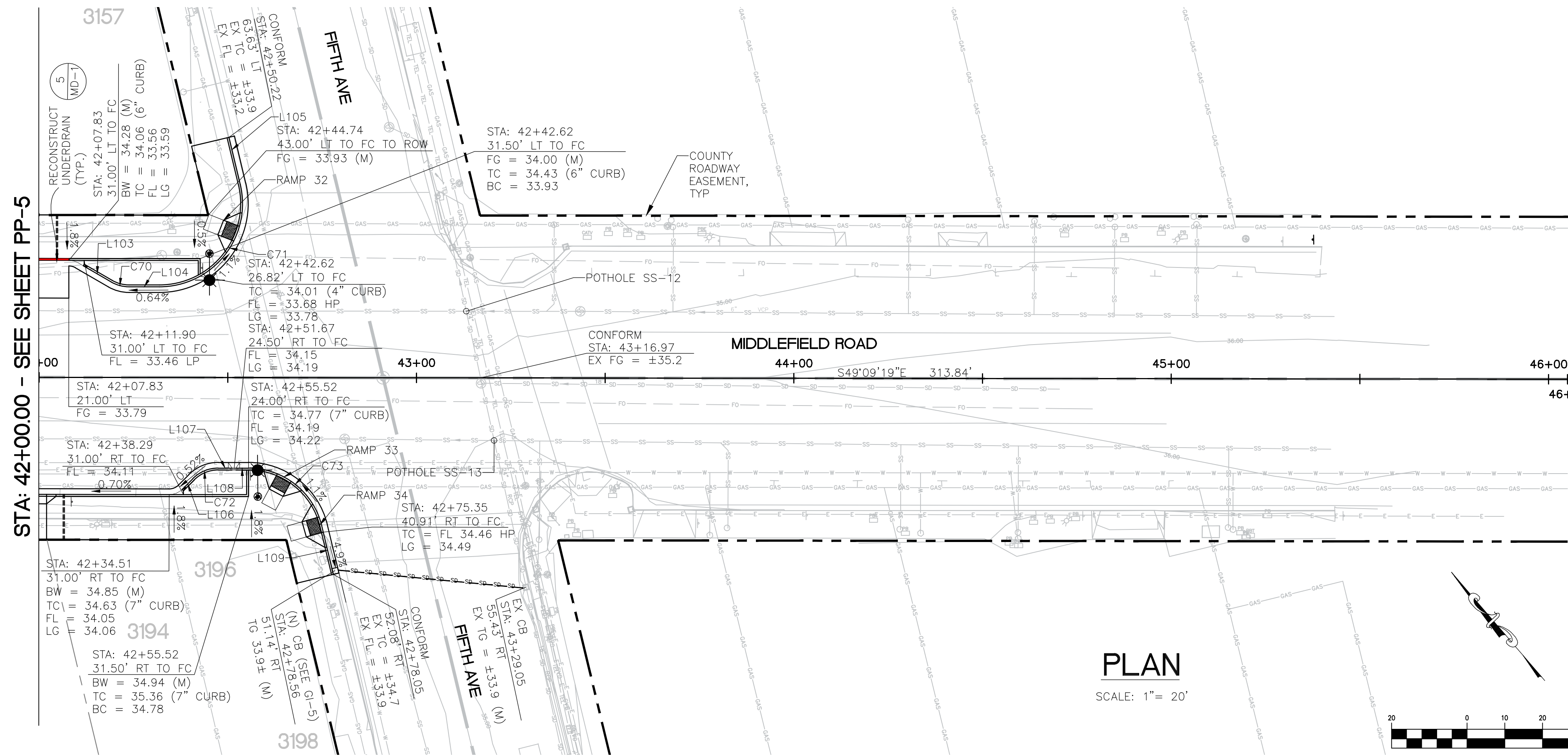
555 COUNTY CENTER, 5th FLOOR
 REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
 ORIGINAL SCALE IS IN INCHES

SCALE: AS SHOWN
 DATE: 10-16-2020
 FILE NO.: 1/E4931

PP-1 (REV)
 SHEET 19 OF 140

FILENAME: \\NA.AECOM\NET\US\AMER\SANFRANCISCO\ISSF\DCS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETSCAPE\000_CAD\SHEETS\PLAN AND PROFILES\PP-1_PLAN_8_PROFILE.DWG (PP-1)



Line Table

| Line # | Length |
|--------|--------|
| L103 | 8.59' |
| L104 | 8.00' |
| L105 | 12.83' |
| L106 | 3.89' |
| L107 | 3.66' |
| L108 | 3.35' |
| L109 | 13.15' |

Curve Table

| Curve # | Length | Radius | Delta |
|---------|--------|--------|------------|
| C70 | 4.97' | 9.50' | 030°00'00" |
| C71 | 39.76' | 22.00' | 103°32'55" |
| C72 | 7.46' | 9.50' | 045°00'00" |
| C73 | 26.67' | 20.00' | 076°24'18" |



APPROVED:

DATE: 12/24/2020

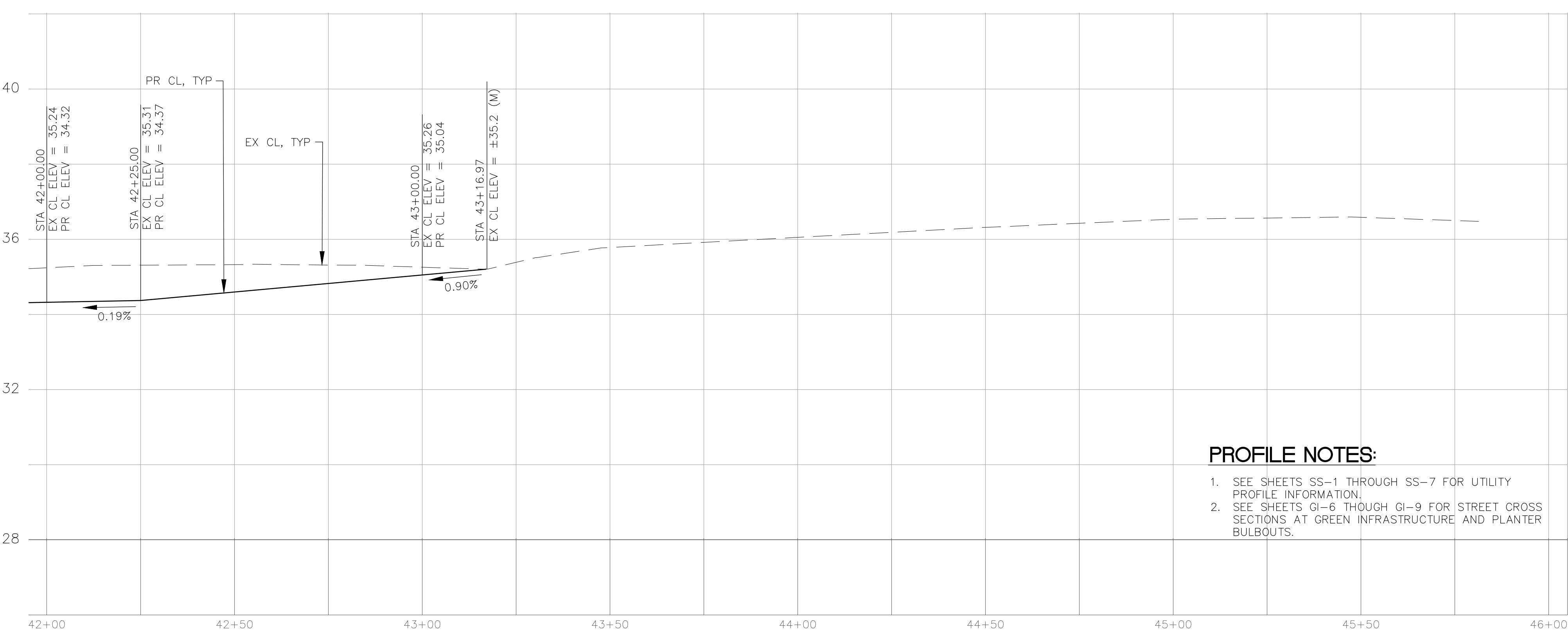
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

NOTES:

- SEE SHEETS MD-1 THROUGH MD-3 FOR CONSTRUCTION DETAILS.
- CONTRACTOR TO REINSTALL MONUMENTS WITH NEW ELEVATIONS POST-CONSTRUCTION.
- EXISTING PAVER CROSSWALK ON MIDDLEFIELD ROAD TO BE PROTECTED AND REMAIN IN PLACE.
- SEE SHEET PP-12 FOR POT HOLE AND CORING DATA.
- SEE DRIVEWAY TABLE FOR DRIVEWAY STATION AND OFFSET.
- ALL CATCH BASINS, INCLUDING THOSE WITH TRASH CAPTURE DEVICES, WITHIN THE STREETScape IMPROVEMENT LIMITS WILL BE PROTECTED.
- SEE RAMP TABLE FOR CURB RAMP CASE, STATIONS, AND OFFSETS. STATION AND OFFSETS BEGIN AND END AT RAMP WINGS AND ARE FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT RAMP IN FIELD ACCORDING TO DETAIL 1 ON SHEET MD-2, AND NOTIFY ENGINEER OF ANY CONFLICTS.
- PLAN AND PROFILE SHEETS SHOW GRADING CONCEPT. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FROM BUILDING FACES TO TOP OF CURB AND CONFIRM EXISTING BACK OF WALK, DOORS, STAIRS, AND ENTRYWAYS, AND NOTIFY ENGINEER OF ANY CONFLICTS.
- ADDITIONAL STATION OFFSET INFORMATION WILL BE PROVIDED TO CONTRACTOR DURING CONSTRUCTION FOR EACH BULBOUT (AS NEEDED).
- CONTRACTOR TO REPAIR ROADWAY, CURB AND GUTTER, AND SIDEWALK AREA DAMAGED BY UNDERGROUND UTILITY WORK BEYOND LIMITS OF ROADWAY REPLACEMENT.

Driveway Table

| DWY # | Begin Station | End Station | Offset | DWY # | Begin Station | End Station | Offset |
|-------|---------------|-------------|-----------|-------|---------------|-------------|-----------|
| 1 | 19+45.00 | 19+68.00 | | 16 | 28+05.41 | 28+32.16 | 31.00' LT |
| 2 | 20+31.12 | 20+48.12 | 31.00' LT | 17 | 29+30.57 | 29+47.57 | 31.00' LT |
| 3 | 21+15.95 | 21+35.45 | 31.00' LT | 18 | 29+52.47 | 29+77.47 | 31.00' LT |
| 4 | 22+03.38 | 22+16.38 | 31.00' LT | 19 | 26+66.85 | 26+85.85 | 31.00' RT |
| 5 | 22+55.54 | 22+75.54 | 31.00' LT | 20 | 27+12.00 | 2+31.00 | 31.00' RT |
| 6 | 23+21.47 | 23+38.47 | 31.00' LT | 21 | 27+52.48 | 27+71.48 | 31.00' RT |
| 7 | 23+66.10 | 24+01.11 | 31.00' LT | 22 | 28+59.07 | 28+78.07 | 31.00' RT |
| 8 | 19+13.46 | 19+31.46 | 37.55' RT | 23 | 29+93.52 | 30+22.39 | 31.00' RT |
| 9 | 20+78.44 | 20+95.94 | 31.00' RT | 24 | 31+32.21 | 31+55.21 | 31.00' LT |
| 10 | 22+07.34 | 22+27.34 | 31.00' RT | 25 | 32+28.91 | 32+43.91 | 31.00' LT |
| 11 | 22+72.98 | 22+92.98 | 31.00' RT | 26 | 32+69.16 | 32+84.16 | 31.00' LT |
| 12 | 23+59.16 | 23+76.16 | 31.00' RT | 27 | 34+36.70 | 34+55.70 | 31.00' LT |
| 13 | 24+27.59 | 24+60.59 | 31.00' RT | 28 | 34+74.92 | 34+93.92 | 31.00' LT |
| 14 | 26+57.27 | 26+91.27 | 31.00' LT | 29 | 35+08.44 | 35+63.44 | 31.00' LT |
| 15 | 27+50.43 | 27+76.43 | 31.00' LT | 30 | 31+53.29 | 31+70.29 | 31.00' RT |



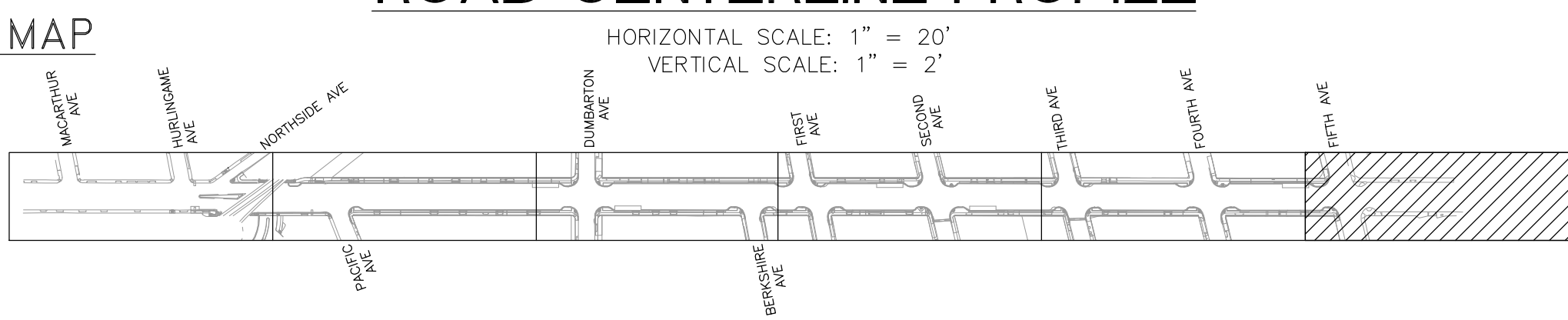
PROFILE NOTES:

- SEE SHEETS SS-1 THROUGH SS-7 FOR UTILITY PROFILE INFORMATION.
- SEE SHEETS GI-6 THROUGH GI-9 FOR STREET CROSS SECTIONS AT GREEN INFRASTRUCTURE AND PLANTER BULBOUTS.

Ramp Table

| Ramp # | Case | Begin Station | Begin Offset | End Station | End Offset | Ramp # | Case | Begin Station | Begin Offset | End Station | End Offset |
|--------|------|---------------|--------------|-------------|------------|--------|------|---------------|--------------|-------------|------------|
| 1 | C | 16+15.55 | 31.83' RT | 16+27.60 | 31.84' RT | 21 | A | 33+36.62 | 25.32' RT | 33+47.89 | 36.19' RT |
| 2 | C | 17+41.84 | 53.56' LT | 17+45.91 | 56.46' LT | 22 | A | 33+94.44 | 34.36' RT | 34+02.31 | 26.49' RT |
| 3 | A | 17+54.51 | 34.63' LT | 17+62.77 | 41.51' LT | 23 | A | 36+27.47 | 26.64' LT | 36+35.21 | 34.63' LT |
| 4 | B | 20+22.80 | 31.00' LT | 20+31.12 | 31.00' LT | 24 | A | 36+81.43 | 34.82' LT | 36+89.09 | 26.74' LT |
| 5 | C | 19+70.10 | 37.43' RT | 19+83.73 | 48.78' RT | 25 | A | 36+47.76 | 26.40' RT | 36+56.44 | 35.66' RT |
| 6 | A | 20+23.61 | 37.46' RT | 20+28.77 | 27.61' RT | 26 | A | 37+01.85 | 36.48' RT | 37+08.36 | 28.02' RT |
| 7 | A | 25+33.90 | 26.27' LT | 25+41.94 | 33.97' LT | 27 | A | 39+36.28 | 27.08' LT | 39+43.67 | 36.40' LT |
| 8 | A | 25+87.16 | 34.01' LT | 25+95.18 | 26.30' LT | 28 | A | 39+90.20 | 34.57' LT | 39+98.95 | 26.08' LT |
| 9 | A | 25+36.79 | 28.32' RT | 25+43.25 | 37.38' RT | 29 | A | 40+04.14 | 24.37' LT | 40+19.43 | 24.70' LT |
| 10 | A | 25+86.58 | 35.06' RT | 25+96.29 | 25.75' RT | 30 | A | 39+55.99 | 26.18' RT | 39+64.89 | 35.22' RT |
| 11 | A | 29+14.20 | 27.34' RT | 29+22.49 | 38.98' RT | 31 | A | 40+10.81 | 36.49' RT | 40+17.69 | 27.75' RT |
| 12 | A | 29+61.64 | 37.40' RT | 29+70.20 | 26.87' RT | 32 | A | 42+49.68 | 33.12' LT | 42+53.71 | 43.57' RT |
| 13 | A | 30+24.07 | 26.69' LT | 30+32.47 | 36.20' LT | 33 | A | 42+59.74 | 24.45' RT | 42+69.54 | 29.74' RT |
| 14 | A | 30+77.20 | 35.64' LT | 30+85.89 | 26.39' LT | 34 | A | 42+72.58 | 33.56' RT | 42+76.29 | 44.83' RT |
| 15 | A | 30+67.67 | 26.96' RT | 30+75.16 | 35.20' RT | 35 | C | 18+18.02 | 31.85' LT | 18+21.02 | 31.87' LT |
| 16 | A | 31+16.59 | 34.39' RT | 31+26.20 | 25.46' RT | 36 | C | 17+06.32 | 40.33' RT | 17+09.32 | 40.33' RT |
| 17 | A | 33+18.22 | 26.71' LT | 33+26.60 | 36.24' LT | 37 | C | 18+13.98 | 37.76' RT | 18+18.22 | 37.74' RT |
| 18 | A | 33+72.69 | 34.82' LT | 33+80.35 | 26.74' LT | 38 | C | 18+97.76 | 31.50' LT | 19+00.76 | 31.50' LT |
| 19 | A | 33+88.71 | 24.08' LT | 34+00.71 | 24.27' LT | 39 | C | 18+60.22 | 37.66' RT | 18+64.41 | 37.65' RT |
| 20 | A | 33+16.87 | 25.19' RT | 33+34.62 | 24.67' RT | | | | | | |

AECOM
300 California Street, Suite 600
San Francisco, Ca 94104
Tel: 415-796-8100
fax: 415-796-8200



| | | |
|---|---|--------------------------------|
| DESIGNED BY: EA | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| DRAWN BY: EA | PLAN AND PROFILE | FILE NO.: 1/E4931 |
| ISSUE FOR BID: 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | PP-6 (REV) |
| SHEET 24 OF 140 | | |

FILENAME: \\VA-AECOM\NET\UFS\AMEA\SANFRANCISCO\USSET\DCS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETScape\000_CAD\SHEETS\PLAN AND PROFILES\PP-6_Plan_&_Profile.dwg (PP-6)

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THESE DRAWINGS AND SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS AND SPECIFICATIONS.
- THE UNDERGROUND UTILITIES SHOWN IN PLAN DRAWINGS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES. CONTRACTOR SHALL POT-HOLE EXISTING PIPELINES TO VERIFY THE VERTICAL AND HORIZONTAL ALIGNMENT PRIOR TO PERFORMING EARTHWORK ADJACENT TO PIPELINES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 PRIOR TO CONSTRUCTION AND FOLLOW-UP WITH EACH UTILITY PRESENT IN THE AREA TO CONFIRM THAT THE LOCATION OF THEIR INFRASTRUCTURE WAS MARKED.
- THE COUNTY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF UTILITY INFORMATION, THE CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING AND SHALL PROTECT ALL EXISTING SERVICES FROM DAMAGE DUE TO HIS OPERATIONS. SUPPORT EXISTING UTILITIES THAT ARE EXPOSED DUE TO CONSTRUCTION ACTIVITIES.
- UTILITY LATERALS SUCH AS WATER, GAS, ELECTRICAL, TELECOMMUNICATION AND SEWER LATERALS ARE GENERALLY NOT SHOWN. IF THEY ARE DISPLAYED, LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE UTILITY LATERALS IN THE FIELD AND PROTECT THEM.
- THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THESE PLANS IS BASED UPON BEST AVAILABLE PUBLIC RECORDS. THIS INFORMATION MAY BE INCOMPLETE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE POSITION OF AND PROVIDE PROTECTION FOR ALL EXISTING UTILITIES AND STRUCTURES.
- CONTRACTOR SHALL POSSESS A CLASS "A" GENERAL ENGINEERING CONTRACTOR LICENSE.

CONSTRUCTION NOTES

- CONSTRUCTION HOURS (INCLUDES ANY AND ALL DELIVERIES): MONDAY - FRIDAY: 8:00 AM TO 5:00 PM.
- SHUTDOWN OF UTILITIES WILL NOT BE ALLOWED. IF EMERGENCY SHUTDOWN OF UTILITIES IS NECESSARY, THEN SHUTDOWN SHALL BE APPROVED IN WRITING BY SAN MATEO COUNTY OR THE RESPECTIVE UTILITY COMPANY.
- AT THE END OF EACH WORKING DAY, A TEMPORARY TIE-IN SHALL BE MADE BETWEEN THE REPLACED SECTION OF PIPE AND THE EXISTING SYSTEM. THE BYPASS WILL EITHER BE REMOVED OR THE PUMPS WILL BE MANNED ON A 24-HOUR BASIS.
- CONTRACTOR TO PROVIDE SS BYPASS DURING CONSTRUCTION, WHICH CAN INCLUDE TEMPORARY STORAGE TANKS. CONTRACTOR WILL SUBMIT BYPASS PLAN AND APPROVAL PRIOR TO CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL BE CONDUCTED IN ACCORDANCE WITH THE CONTRACTOR'S SPECIFIC TRAFFIC CONTROL PLAN AS APPROVED BY THE COUNTY.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE SAFETY RULES AND REGULATIONS ESTABLISHED BY CAL-OSHA AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK.
- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR THE PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY.
- MANHOLE RIM ELEVATIONS ARE APPROXIMATE ONLY. MANHOLE RIMS SHALL BE ADJUSTED TO MATCH PROPOSED GRADE UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL REPAIR, TO THE SATISFACTION OF THE COUNTY AND WITH SAME MATERIAL AS EXISTING, ALL BROKEN SEWER MAINS, WATER LINES, LATERALS, AND OTHER EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL LOCATE NEW CURB INLETS AT CURB RETURNS SO AS NOT TO OBSTRUCT PROPOSED HANDICAP RAMPS, AND TO MINIMIZE IMPACTS TO EXISTING GAS AND WATER VALVES, AS DIRECTED BY THE ENGINEER. GAS LINES WILL BE RELOCATED BY OTHERS AS NECESSARY TO AVOID CURB INLETS AS DIRECTED BY THE ENGINEER.
- CONTRACTOR WILL BE RESPONSIBLE TO RECONNECT ALL LATERALS TO THE NEW SEWER PIPE. IF THE LATERALS ARE FOUND TO BE STRUCTURALLY AND FUNCTIONALLY DEFICIENT, THE CONTRACTOR SHALL REPLACE THE CONNECTIONS.
- CONSTRUCTION WITHIN SFPUC HETCH HETCHY R.O.W. SHALL BE BY OPEN TRENCH CONSTRUCTION METHOD ONLY.
- CONTRACTOR SHALL AT ALL TIMES PROVIDE ACCESS TO BUSINESSES.
- ~~BASE BID WILL BE OPEN CUT, WITH PIPE BURSTING (EXCEPT AT SFPUC) AS AN ADD ALTERNATIVE.~~



SFPUC NOTES

- THE CITY AND COUNTY OF SAN FRANCISCO ACTING BY AND THROUGH ITS PUBLIC UTILITIES COMMISSION, WATER SUPPLY AND TREATMENT DIVISION ("SFPUC") OWNS AND OPERATES WATER AQUEDUCTS THAT CROSS THE PROJECT ALIGNMENT. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (USA) 48 HOURS BEFORE ANY CONSTRUCTION IN THE VICINITY OF THE SFPUC AQUEDUCTS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE SFPUC CONSTRUCTION INSPECTOR. MR. ALBERT HAO. AT (650) 871-3015, AT LEAST (10) CALENDAR DAYS PRIOR TO THE START OF ON-SITE CONSTRUCTION IN THE VICINITY OF THE SFPUC ROW. IN THE EVENT OF EMERGENCY INVOLVING SFPUC FACILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY SFPUC BY CALLING SFPUC MILLBRAE DISPATCH AT (650) 872-5900.
- THE CONTRACTOR SHALL NOTIFY THE ROW MANAGER AT LEAST ONE WEEK PRIOR TO COMMENCING CONSTRUCTION WORK ON SFPUC PROPERTY AND/OR PIPELINES (CONTACT EMILY READ, ROW MANAGER, AT EREAD@SF.WATER.ORG OR (650) 652-3204).
- THE CONTRACTOR SHALL NOTIFY SFPUC MILLBRAE DISPATCH, AT (650) 872-5900, WHEN COMMENCING CONSTRUCTION ON SFPUC PROPERTY AND/OR PIPELINES.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION DEBRIS IS REMOVED FROM SFPUC PROPERTY AND DISPOSED OF PROPERLY AND LEGALLY. IN ADDITION, THE PROJECT SPONSOR WILL ARRANGE FOR A POST-CONSTRUCTION/RESTORATION SITE INSPECTION BY SFPUC STAFF (CONTACT EMILY READ, ROW MANAGER, AT EREAD@SF.WATER.ORG OR (650) 652-3204).

UPRR NOTES

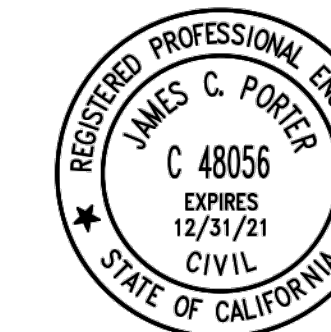
- CONTRACTOR SHALL CONTACT UNION PACIFIC RAIL ROAD COMPANY'S MANAGER OF TRACK MAINTENANCE, MANAGER OF SIGNAL MAINTENANCE, AND TELECOMMUNICATION "CALL BEFORE YOU DIG" LINE AT 800-336-9136 LINE AT AT LEAST 10 DAYS IN ADVANCE OF THE DATE HE/SHE INTENDS TO ENTER THE RIGHT OF WAY OF UNION PACIFIC RAIL COMPANY, AND FOR FURTHER INSTRUCTIONS AND APPROVAL TO COMMENCE CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE PRIOR TO WORK ADJACENT TO THE RAILROAD. COUNTY SHALL PROVIDE MONITORING OF TRACKS AND CONSTRUCTION OBSERVATION OF ALL WORK PERTAINING TO THE RAILROAD RAILPROS FIELD SERVICES, RP.UTILITY@RAILPROS.COM (682)223-5721.
- CONTRACTOR SHALL NOT DAMAGE ANY RAILROAD PROPERTY OR FACILITIES. ANY DAMAGES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ABBREVIATIONS

| | |
|-------------|---|
| APPROX | APPROXIMATE |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS INTERNATIONAL |
| AVE | AVENUE |
| BDPL | BAY DIVISION PIPELINE |
| BTW | BETWEEN |
| C/O | CLEANOUT |
| DIA | DIAMETER |
| DI | DUCTILE IRON |
| DIM | DIMENSIONS |
| DIP | DUCTILE IRON PIPE |
| DR | DIMENSION RATIO |
| (E) | EXISTING |
| EG | EXISTING GROUND |
| FG | FUTURE GROUND |
| FT | FOOT |
| FO | FIBER OPTICS |
| GPR | GROUND PENETRATING RADAR |
| HH, H.H. | HETCH HETCHY |
| LB | POUND |
| ID | INSIDE DIAMETER |
| INV | INVERT |
| JT | JOINT TRENCH |
| MACP | MANHOLE ASSESSMENT AND CERTIFICATION PROGRAM |
| | MANHOLE |
| MH | NEW |
| (N) | NORTHEAST |
| NE | NORTHWEST |
| NW | OUTSIDE DIAMETER |
| OD | OVERHEAD WIRE |
| OH | PIPELINE ASSESSMENT AND CERTIFICATION PROGRAM |
| PACP | PROPERTY LINE |
| P/L | POLYVINYL CHLORIDE |
| PVC | PACIFIC GAS AND ELECTRIC |
| PG&E | REINFORCED CONCRETE PIPE |
| RCP | ROAD |
| RD | RIGHT OF WAY |
| ROW, R.O.W. | STORM DRAIN |
| SD | SOUTHEAST |
| SE | SOUTHWEST |
| SDDI | PIPE WALL THICKNESS |
| SDR | TO BE DETERMINED (FIELD VERIFY BY CONTRACTOR REQUIRED) |
| SFPUC | UNDERGROUND ELECTRIC |
| | UNION PACIFIC RAILROAD |
| | VITRIFIED CLAY PIPE |
| | WATER |
| | WATER LINE |

LEGEND

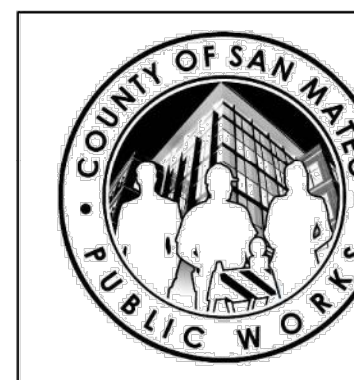
| | |
|--|---|
| | (N) SANITARY SEWER AND MANHOLE |
| | SANITARY SEWER |
| | STORM DRAIN MANHOLE |
| | SANITARY SEWER MANHOLE |
| | CATCH BASIN |
| | GAS LINE |
| | WATER LINE |
| | ELECTRICAL LINE |
| | ELECTRICAL OVERHEAD LINE |
| | COMCAST UNDERGROUND |
| | TELEPHONE LINE |
| | FIBER OPTIC |
| | (E) GROUND PENETRATING RADAR LOCATED FACILITIES (TYPE AND MATERIAL UNKNOWN) |



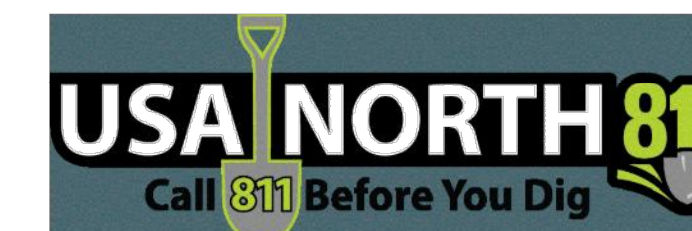
APPROVED:

DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



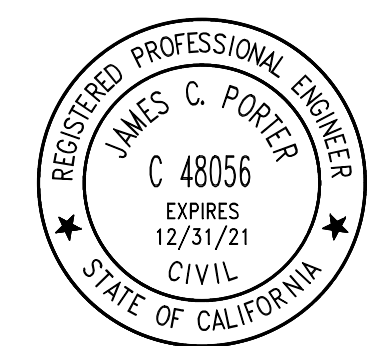
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|---|---|------------------------------|
| DESIGNED BY: EA | COUNTY OF SAN MATEO | SCALE: AS SHOWN |
| CHECKED BY: TS | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | DATE: 10-16-2020 |
| ADDENDUM 12-23-20 | SS ABBREVIATIONS GENERAL NOTES, AND LEGEND | FILE NO: 1/E4931 |
| ISSUE FOR BID 10-16-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION | DATE | SAN MATEO COUNTY |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | 0 1 2 3 4 |
| | | SSG-2 (REV) SHEET 33 OF 140 |



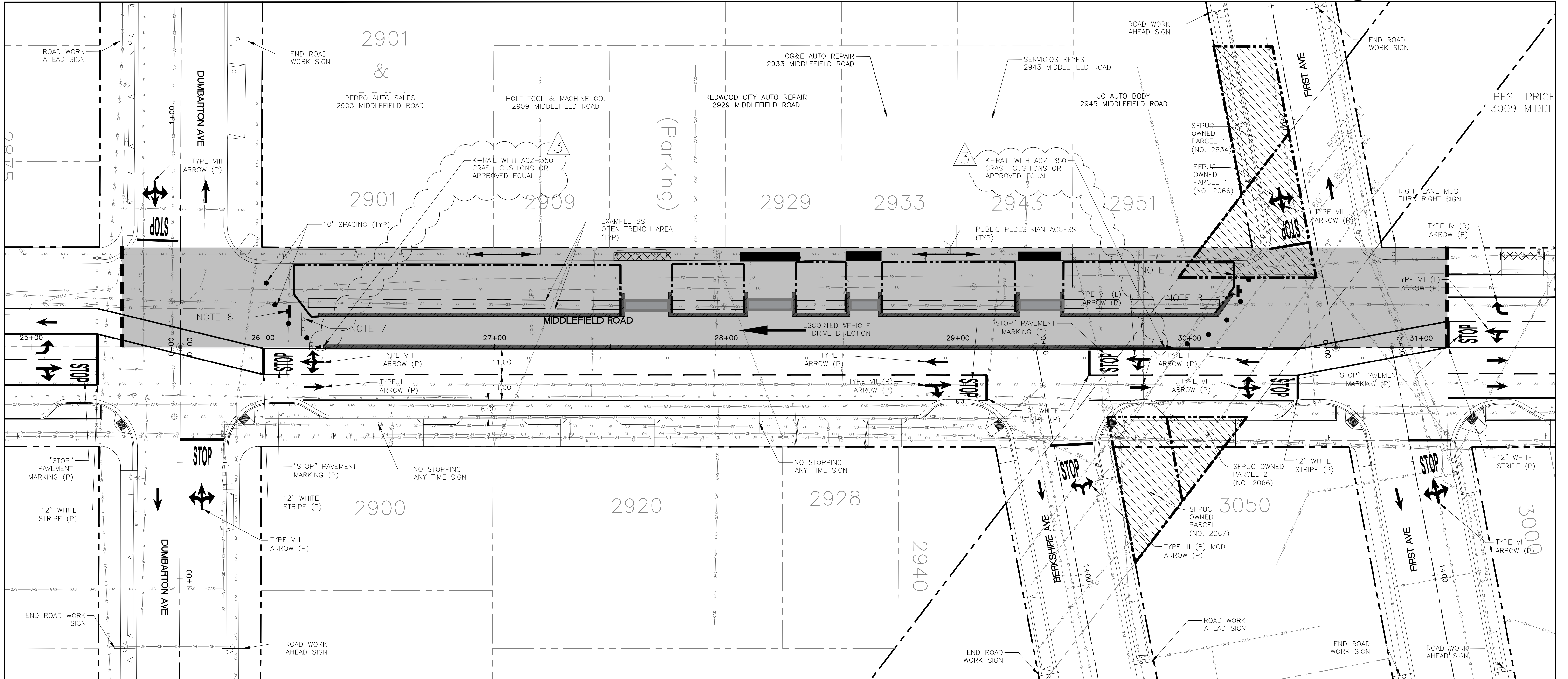
FILENAME: F:\DCS\PROJECTS\MIDDLEFIELD SANITARY SEWER\000_CAD\SHEETS\SS SHEETS\G-02 LEGEND-ABBREV.DWG (LAYOUT)

LEGEND:

- CONSTRUCTION PHASE EXTENT
- K-RAIL
- SIGN LISTING BUSINESSES
- ◀ TYPE P(CA) OBJECT MARKER
- AUTO REPAIR BUSINESS
- XXXXX BUSINESS REQUIRING DELIVERY TRUCK ACCESS
- PORTABLE CHANNELIZERS WITH DOUBLE REFLECTOR BANDS
- ⚠ FLAGGER SYMBOL
- (P) TEMPORARY STRIPING (PAINT)
- CONSTRUCTION SIGNAGE
- PHASE WORK AREA
- TRENCH BRIDGE



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021

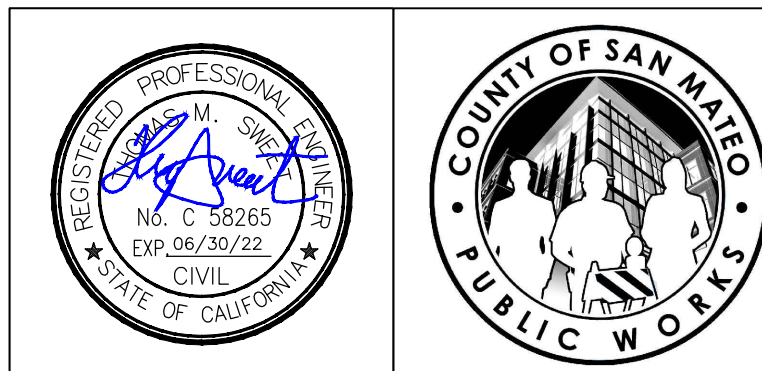
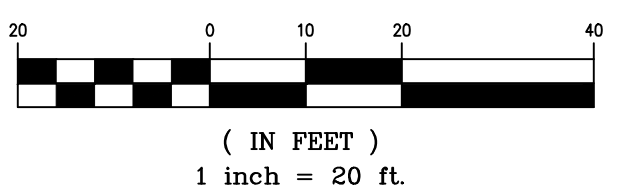


NOTES:

1. CONSTRUCTION PHASING & TRAFFIC HANDLING PLANS DO NOT SHOW ALL WORK REQUIRED TO BE COMPLETED. WORK HOURS TO BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO WORK.
2. THE CONTRACTOR'S WORK HOURS SHALL BE BETWEEN 8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY. SATURDAY WORK SHALL BE REQUESTED AND APPROVED BY THE COUNTY. CONSTRUCTION IS NOT ALLOWED ON SUNDAYS, THANKSGIVING, OR CHRISTMAS. OUTSIDE THESE HOURS, CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE FLAGGERS TO BUSINESSES DURING NORMAL BUSINESS HOUR THAT ARE OUTSIDE OF CONTRACTOR WORK HOURS.
3. REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND STRIPING AT EACH PHASE. COVER EXISTING CONFLICTING ROADSIDE SIGNS.
4. CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS IN PHASES AND PROVIDE PEDESTRIAN, CUSTOMER VEHICLE SERVICE AND DELIVERY VEHICLES ACCESS AT ALL TIMES TO AFFECTED BUSINESSES FOR EACH PHASE OF CONSTRUCTION. ANY WORK THAT OBSTRUCTS ENTRY TO BUSINESS SHALL BE RESTORED WITHIN 24 CONSECUTIVE HOURS.
5. DURING CONSTRUCTION OF WEST SIDE OF MIDDLEFIELD ROAD (PHASES 1-4 AND 10), CONTRACTOR TO PLACE K-RAILS WITH PRIVACY SCREENS 3' EAST OF THE MIDDLEFIELD ROAD ROW CENTERLINE TO SEPARATE CONSTRUCTION ZONE FROM VEHICULAR TRAFFIC.
6. DURING CONSTRUCTION OF EAST SIDE OF MIDDLEFIELD ROAD (PHASES 5-9), CONTRACTOR TO PLACE K-RAIL ON THE MIDDLEFIELD ROAD ROW CENTERLINE TO ALLOW CONTRACTOR ACCESS TO JOINT TRENCH CROSSINGS INSTALLED ON WEST SIDE DURING PHASES 1-4.
7. DURING CONSTRUCTION OF PHASE 10, CONTRACTOR TO PLACE K-RAIL ON THE MIDDLEFIELD ROAD ROW CENTERLINE TO ALLOW CONTRACTOR ACCESS TO JOINT TRENCH CROSSINGS INSTALLED ON EAST SIDE DURING PHASE 9.
8. SIGNAGE WILL BE POSTED AT THE APPROACHING END OF ALL CONSTRUCTION ZONES DIRECTING DELIVERY TRUCKS AND CUSTOMERS OF VEHICLE SERVICE BUSINESSES TO ACCESS/ENTRY POINTS WITH FLAGGERS.
9. THE FLAGGERS WILL CONTROL ACCESS BY DELIVERY TRUCKS AND VEHICLE SERVICE BUSINESS CUSTOMERS.
10. MOVEMENT OF DELIVERY TRUCKS AND VEHICLE SERVICE BUSINESS CUSTOMERS OUT OF THE CONSTRUCTION ZONE WILL BE DIRECTED BY CONTRACTOR FLAGGERS TO MERGE BACK ONTO TRAFFIC AT 4 WAY STOP CONDITION AT NEXT INTERSECTION.
11. TRAFFIC SIGNALS SHALL BE TURNED OFF. INTERSECTIONS TO FUNCTION AS 4 WAY STOP.
12. BEFORE CONSTRUCTION, CONTRACTOR TO CONTACT SAMTRANS BUS TRANSPORTATION SUPERVISOR, MANUEL PEREZ-GONZALEZ, AT PEREZ-GONZALEZ@SAMTRANS.COM OR (650)-508-6492 TO COORDINATE BUS ROUTE DETOURS.
13. DURING UNDERGROUNDING OR SANITARY SEWER LATERALS, AND SUBSEQUENT ROADWAY AND SIDEWALK REPLACEMENT, CONTRACTOR TO ENSURE PEDESTRIANS HAVE CLEAR ACCESS TO BUSINESSES AND CROSS STREETS VIA TEMPORARY PEDESTRIAN WALKWAYS ON THE COMPLETED PORTIONS OF THE ROADWAY AND SIDEWALK AND/OR ACCESS RAMPS FROM THE STREET.
14. IN AREAS WHERE CONSTRUCTION IS DIRECTLY IN FRONT OF BUSINESSES, CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES TO MINIMIZE DISRUPTION THROUGH THE USE OF ALTERNATE WORK TIMES, USE OF STEEL PLATES TO TEMPORARILY COVER TRENCH AREAS AND OTHER MEASURES TO MINIMIZE DISRUPTION.
15. CONTRACTOR SHALL PROVIDE PEDESTRIAN ADA-COMPLIANT WALKWAY INCLUDING BUT NOT LIMITED TO PLYWOOD RAMPS, BRIDGES, AND STEEL PLATES, AT ALL TIMES DURING CONSTRUCTION.
16. CONTRACTOR SHALL MAINTAIN AND KEEP ALL ELECTRICAL SYSTEMS (INCLUDING TRAFFIC SIGNALS) OPERATIONAL AT ALL TIMES.
17. SEE SIGNING AND STRIPING SHEETS FOR FINAL PAVEMENT STRIPING AND PAVEMENT MARKING DETAILS.
18. FINAL STRIPING WORK SHALL BE DONE DURING OFF PEAK HOURS.
19. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS, PARKING PLANS, AND PEDESTRIAN ACCESS PLANS TO COUNTY OF SAN MATEO FOR APPROVAL PRIOR TO CONSTRUCTION.

TYPICAL CONSTRUCTION PHASE LAYOUT (PHASE 7)

23. CONSTRUCTION IN AREAS ACCESSIBLE BY THE PUBLIC (AS DIRECTED BY CONTRACTOR FLAGGER), TEMPORARY FENCES SHALL BE UTILIZED TO SEPARATE ACCESSIBLE AREAS FROM CONSTRUCTION AREAS AS FOLLOWS:
 1. EXISTING SIDEWALK AREAS - PEDESTRIAN ACCESS ON EXISTING SIDEWALK TO BUSINESS/BUILDING ENTRANCES SHALL BE SEPARATED FROM ADJACENT CONSTRUCTION ZONES IN THE EXISTING STREET WITH TEMPORARY FENCING. FOR AREAS WHERE EXISTING SIDEWALK HAS BEEN REMOVED OR INTERRUPTED BY A TRENCH, A WRITTEN METHOD TO PROVIDE WALKWAY SURFACE AND BRIDGES OVER TRENCHES TO BE PROVIDED TO THE ENTRANCE OF THE BUSINESS/BUILDING WILL BE SUBMITTED BY CONTRACTOR TO AND APPROVED BY THE ENGINEER.
 2. EXISTING ROADWAY AREAS - CUSTOMER VEHICLE AND DELIVERY VEHICLE ACCESS TO VEHICLE REPAIR BUSINESS DRIVEWAYS WILL BE SEPARATED FROM CONSTRUCTION ZONES WITH TEMPORARY FENCING AND/OR VEHICLE BARRIERS ERECTED AND MAINTAINED BY CONTRACTOR TO SEPARATE WORK ZONES FROM PUBLICLY ACCESSIBLE DRIVE ROUTES TO BUSINESSES.

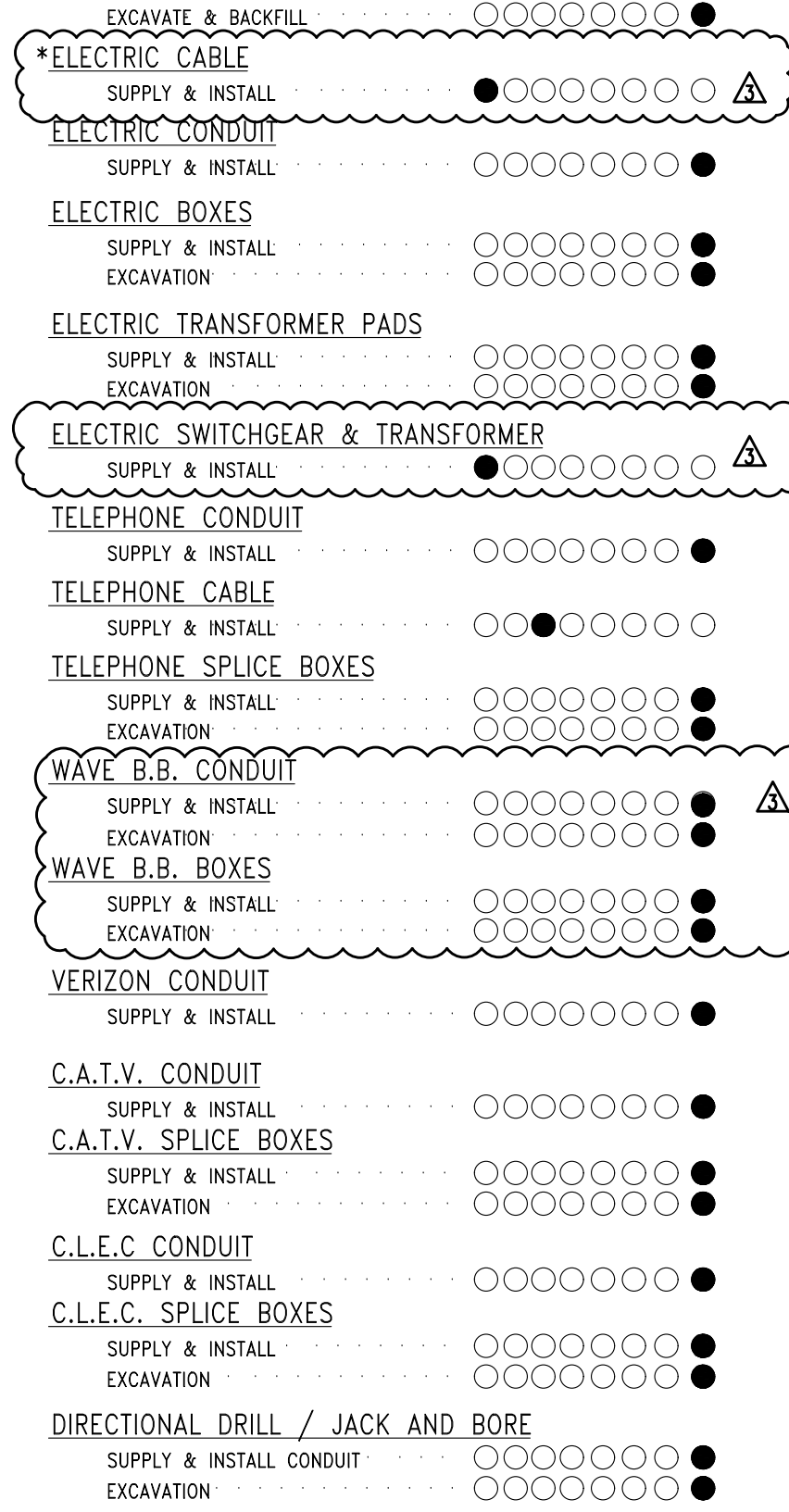


| | | | | |
|---|----------|---|--|--------------------------------|
| DESIGNED BY: AB | | COUNTY OF SAN MATEO | | SCALE: AS SHOWN |
| CHECKED BY: TS | | MIDDLEFIELD ROAD IMPROVEMENT PROJECT | | DATE: 10-16-2020 |
| DRAWN BY: AB | | TRAFFIC HANDLING PLAN | | FILE NO.: 1/E4931 |
| ADDENDUM A | 12-23-20 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | | 555 COUNTY CENTER, 5th FLOOR |
| ISSUE FOR BID | 10-16-20 | SAN MATEO COUNTY | | REDWOOD CITY, CALIFORNIA 94063 |
| REVISION | DATE | | | TH-4 (REV) |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | | | SHEET 59 OF 140 |

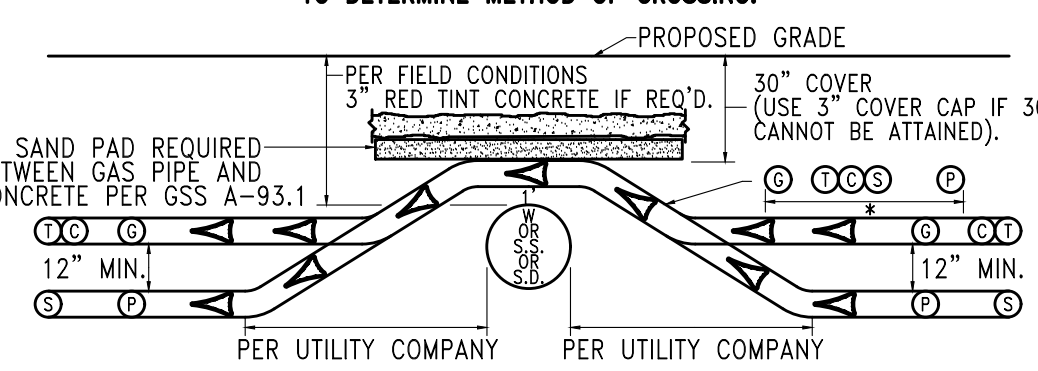
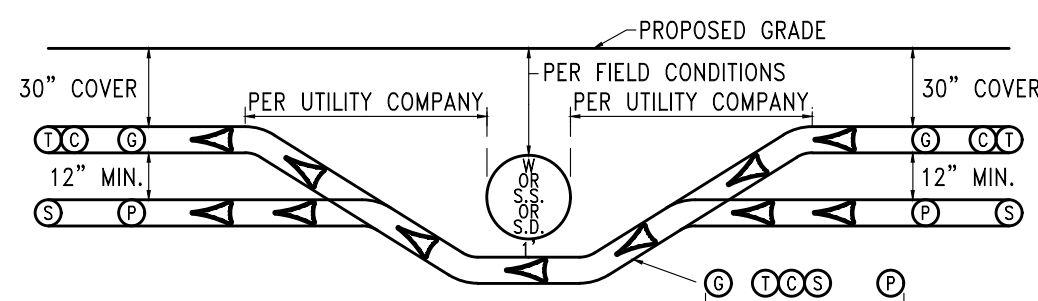
FILENAME: L:\GIS\PROJECTS\PROJECTS\COUNTY OF SAN MATEO\60429576 MIDDLEFIELD RD STREETScape\000_CAD\SHEETS\TRAFFIC HANDLING TH-4.DWG (TH-4)

WORK RESPONSIBILITY JOINT TRENCH

TRENCHING

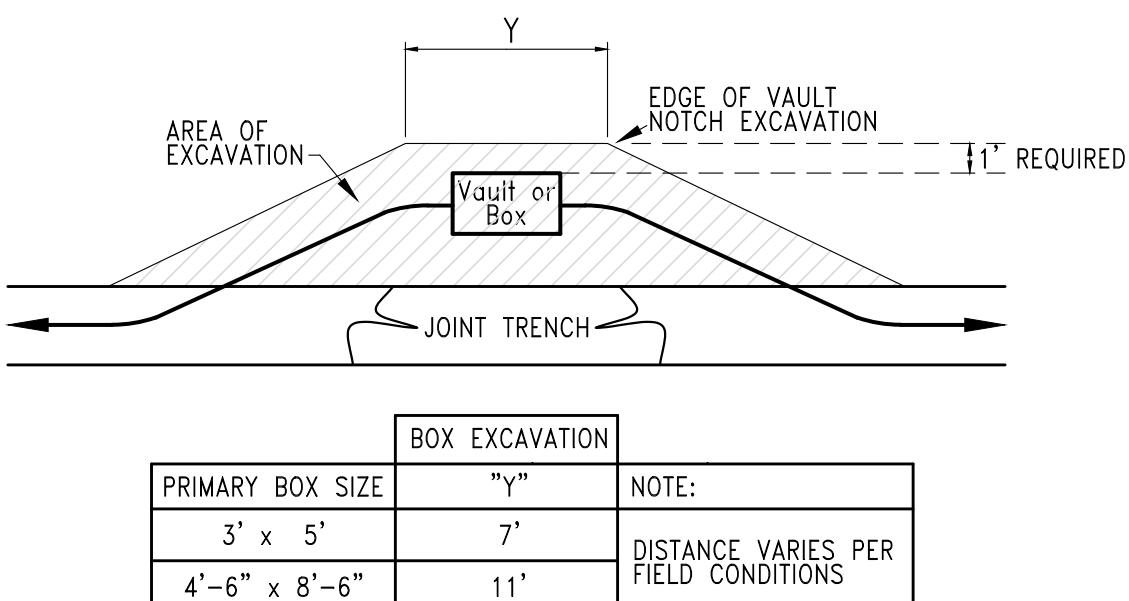


● SYMBOL DESIGNATES THE WORK TO BE PERFORMED BY THE RESPECTIVE CONTRACTOR & UTILITY COMPANIES.
 ○ NOT APPLICABLE UNLESS OTHERWISE SPECIFIED.
 * PG&E TO PULL CABLE INTO ENERGIZED ENCLOSURES



NOTE: TRENCH DEPTH NOT TO EXCEED 5' UNLESS APPROVED BY PG&E INSPECTOR. IN NO CASE SHOULD PLASTIC GAS PIPE BE INSTALLED AT A DEPTH GREATER THAN 10' UNLESS APPROVED BY PG&E SENIOR GAS ENGINEER.

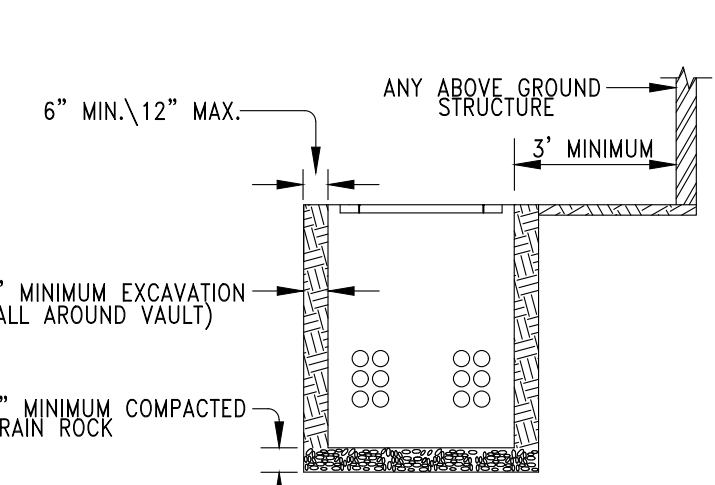
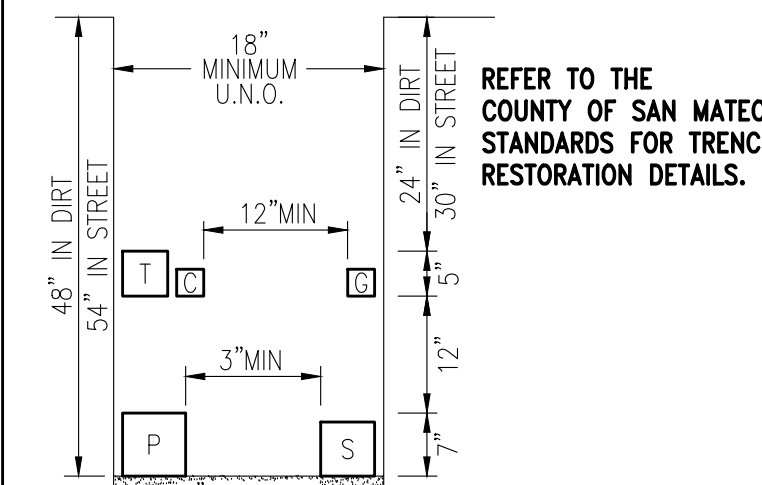
TRENCHING CONTRACTOR SHALL NOT ASSUME THAT EITHER OF THE ABOVE DETAILS WILL BE ACCEPTABLE TO PG&E YOU ARE REQUIRED TO CONTACT THE LOCAL PG&E ENGINEERING OFFICE WITH ANY ISSUE RELATING TO COVERS LESS THAN MINIMUM OR COVERS REQUIRING SHORING. CONCRETE CAPPING IS ONLY ACCEPTABLE WHERE NO OTHER SOLUTION IS POSSIBLE AND ONLY WHEN CERTAIN CRITERIA ARE MET AND ONLY WITH PG&E APPROVAL.



TYPICAL PG&E PRIMARY BOX EXCAVATION DETAIL

CONSTRUCTION NOTES:

1. ALL TRENCHING, BACKFILLING AND INSTALLATION BY CONTRACTOR MUST COMPLY WITH PG&E UO STANDARD S5453 (EFFECTIVE DATE 7-5-2006).
2. ALL WORK MUST COMPLY WITH P.G. & E., TELEPHONE, C.A.T.V., STANDARDS AND PRACTICES. ALL WORK MUST BE INSPECTED AND APPROVED BY RESPECTIVE INSPECTORS. RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF THREE LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A #4 SCREEN. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND IS TO BE AT THE DISCRETION OF THE PG&E REPRESENTATIVE ON SITE. THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. THE SOILS MUST NOT CONTAIN CLODS LARGER THAN 1/2" IF TO BE USED AS SHADING, BEDDING OR LEVELING MATERIALS. COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE P.G.& E. FEDERAL, STATE, COUNTY OR LOCAL REQUIREMENTS. ANY NATIVE SOILS OR IMPORT MATERIALS USED MUST NOT HINDER THOSE EFFORTS.
3. BACKFILL SHALL BE APPROVED BY THE UTILITY COMPANIES AND THE COUNTY OF SAN MATEO. COMPACTION WILL BE TESTED AND PASSED BY THE SOILS ENGINEER.
4. IF SOIL IS NOT ROCK FREE, ADD 4" DEPTH OF TRENCH FOR SAND BEDDING.
5. VERIFY SPLICE BOX EXCAVATION SIZES WITH SUPPLIER(S).
6. THE TRENCHING CONTRACTOR SHALL COORDINATE THE UTILITY COMPANIES' INSTALLATION.
7. CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK ACCORDINGLY.
8. IT IS THE TRENCHING CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE ALL EXISTING FACILITIES. NO EXTRA PAYMENT WILL BE CONSIDERED FOR CROSSING OTHER SYSTEMS.
9. VISION UTILITY PARTNERS DESIGN ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THESE DRAWINGS WERE PREPARED USING DATA SUPPLIED BY PG&E, TELEPHONE, C.A.T.V., IMPROVEMENT PLANS AND THE COUNTY'S VARIOUS "AS BUILT" INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY REVIEW THE PROJECT PRIOR TO SUBMITTING HIS BID.
10. CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A., INDUSTRIAL SAFETY ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING NEAR ENERGIZED OR "HOT" EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER. PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES ARE THE CONTRACTOR'S RESPONSIBILITY.
11. THE CONTRACTOR SHALL PROTECT CONSTRUCTION STAKING. HE SHALL COORDINATE STAKING WITH THE PROJECT'S CIVIL ENGINEER.
12. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS PRIOR TO START OF WORK.
13. CONTRACTOR SHALL NOTIFY INSPECTORS OF ANY POTENTIAL CONFLICTS PRIOR TO START OF WORK.
14. THIS PLAN IS TO BE USED FOR SOLE PURPOSE OF DIGGING THE JOINT TRENCH. SEE PG&E, AT&T, AND COMCAST PLANS FOR EXACT SIZE AND NUMBER OF CONDUITS INSTALLED IN THE JOINT TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT NUMBER, SIZE AND TYPES OF CONDUITS ARE INSTALLED PER THE ENGINEERED PLANS BY EACH UTILITY COMPANY.
15. NOTE PLANS ISSUED AT THE PRE-CONSTRUCTION MEETING MAY BE SUBJECT TO REVISIONS. IF FINAL PLANS FROM EACH UTILITY COMPANY WERE NOT AVAILABLE AT THE START OF CONSTRUCTION.
16. WATER, SEWER, DRAINS, SANITARY WASTE, FUELS (INCLUDING DIESEL AND GASOLINE), OIL, PROPANE AND OTHER VOLATILE HEAVIER THAN AIR GASES, SPRINKLER, IRRIGATION, STEAM AND OTHER "WET" FACILITIES SHALL MAINTAIN A MINIMUM OF THREE FEET FROM THE NEAREST OUTER SURFACE OF PG&E FACILITIES WITH NO LESS THAN ONE FOOT OF EARTH (SOIL BARRIER) BETWEEN THE ADJACENT SIDES OF THE INDIVIDUAL TRENCHES.
17. IN THE EXTRAORDINARY CASE THAT THE MINIMUM THREE FOOT HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN "WET" UTILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY APPROVED BY THE LOCAL INSPECTION SUPERVISOR AND SUBMITTED TO SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL.
18. ALL METER PANELS: INDIVIDUAL, RESIDENTIAL OR NONRESIDENTIAL APPLICANTS WITH A METER PANEL RATING OF ANY SIZE, INSTALLED INSIDE A METER ROOM OR OTHER STRUCTURE, MUST FOLLOW ALL OF THE REQUIREMENTS DESCRIBED BELOW.
 - A. INSTALL, OWN, AND MAINTAIN A SEPARATE, NOMINAL, 2-INCH DIAMETER CONDUIT WITH PULL TAPE INSIDE. THE CONDUIT AND PULL TAPE MUST EXTEND FROM THE OUTSIDE SURFACE OF THE BUILDING AND TERMINATE OUTSIDE THE METER PANEL OR SWITCHBOARD AT THE TOP OF THE METER SECTION.
 - B. ENSURE THE 2-INCH DIAMETER CONDUIT AND PULL TAPE EXIT THE OUTSIDE OF THE BUILDING A MINIMUM OF 8 FEET AND A MAXIMUM OF 10 FEET ABOVE GROUND. THE OPEN END OF THE CONDUIT THAT IS EXPOSED TO THE OUTSIDE MUST HAVE A REMOVABLE, TEMPORARY CAP OR PLUG.
 - C. DO NOT USE THE CONDUIT. THE CONDUIT IS FOR PG&E'S METERING EQUIPMENT ONLY.



SUBSTRUCTURE VERIFICATION STAMP

COUNTY OF SAN MATEO
PLEASE NOTE AND SIGN

ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPER'S ENGINEER. ALL COSTS TO RELOCATE OR RE-ADJUST BOXES AT A LATER DATE WILL BE BILLED TO THE COUNTY OF SAN MATEO PLEASE HAVE YOUR SPT. VERIFY THE CORRECT GRADE OF ALL ENCLOSURES OR BOXES, AND SIGN AND DATE DRAWING.

THANK YOU

SIGNED _____
DATE _____

DESIGN CHANGE COMPONENT

ANY CHANGES TO THIS DESIGN MUST BE APPROVED BY

PG&E PM#S:
ELECTRIC: 74004302

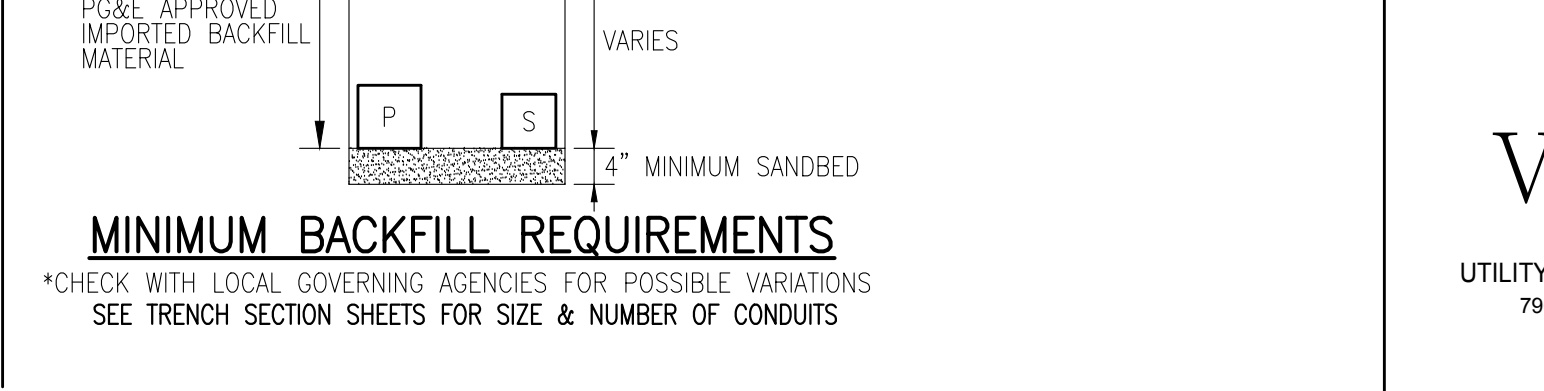
PG&E GAS ADE _____

TRANSFORMER CLEARANCE REQUIREMENTS:

1. ABOVE ANY SINGLE PHASE TRANSFORMER LOCATION, MAINTAIN 20' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT/PAD.
2. ABOVE ANY THREE PHASE TRANSFORMER LOCATION, MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT/PAD.

| ELECTRIC CONDUIT MINIMUM BEND RADIUS | | |
|--------------------------------------|-----------------|-------------------|
| CONDUIT DIAMETER | VERTICAL RADIUS | HORIZONTAL RADIUS |
| 2" | 24" | 36" |
| 3" | 24" | 36" |
| 4" | 36" | 36" |
| 5" | 36" | 60" |

NOTE:
315° MAX BENDS IN ANY SECONDARY CONDUIT RUN 200' OR LESS.
300° MAX BENDS IN ANY PRIMARY CONDUIT RUN.



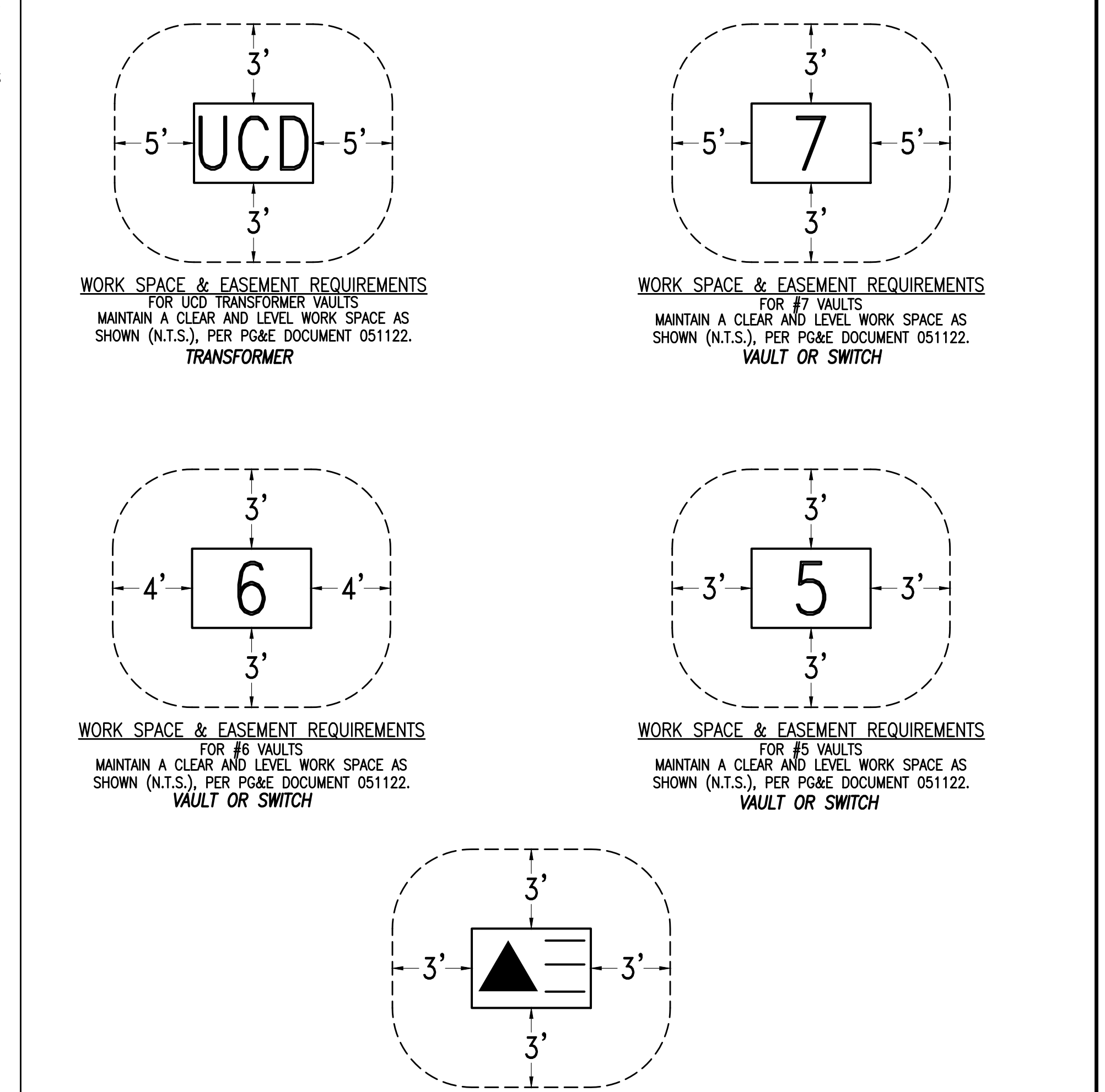
Vizion Utility PARTNERS
UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94588
Tel (925) 662-1114

REGISTERED PROFESSIONAL ENGINEER
DAVID B. VOONHONG
No. 00293
Expires 03-31-22
CIVIL
STATE OF CALIFORNIA

DATE: 09-20-2020

APPROVED: _____
DATE: 12/24/2020

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



NOTE:
1.) TRANSFORMER VAULTS AND SWITCH VAULTS CAN NOT BE INSTALLED IN STREET OR DRIVEWAYS
2.) WORKING CLEARANCES SHOWN ABOVE ARE FROM ALL ABOVE GROUND STRUCTURES WALLS, STREET LIGHTS, FIRE HYDRANTS, OR ANY OTHER STRUCTURES.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES NOTE 9 THIS SHEET REGARDING EXISTING CONDITIONS.

NOTE:
PRIOR TO ENERGIZING THIS PROJECT A PSE/PUE WILL NEED TO BE RECORDED FOR ALL UTILITIES WITHIN THIS PROJECT. INCLUDING THE "WORKING SPACE" REQUIRED AROUND ALL EQUIPMENT.

DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

DESIGNED BY: M.W.
CHECKED BY: M.W.
DRAWN BY: D.V.DATE: 12-23-2020

ISSUE FOR BID: 10-19-2020
REVISION: _____DATE: _____

PROJECT MANAGER: T. NGUYEN

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

SCALE: N.T.S.
DATE: 12-23-2020
FILE NO.: 15-646

MIDDLEFIELD ROAD
UNDERGROUND UTILITY DISTRICT (PHASE II)
NOTES & DETAILS

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

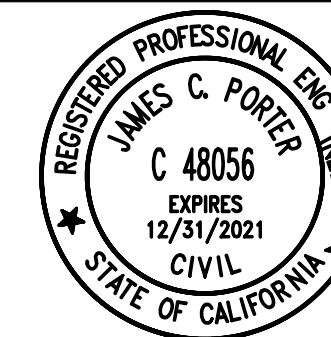
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

VIZION UTILITY PARTNERS PROJECT MANAGER T. NGUYEN

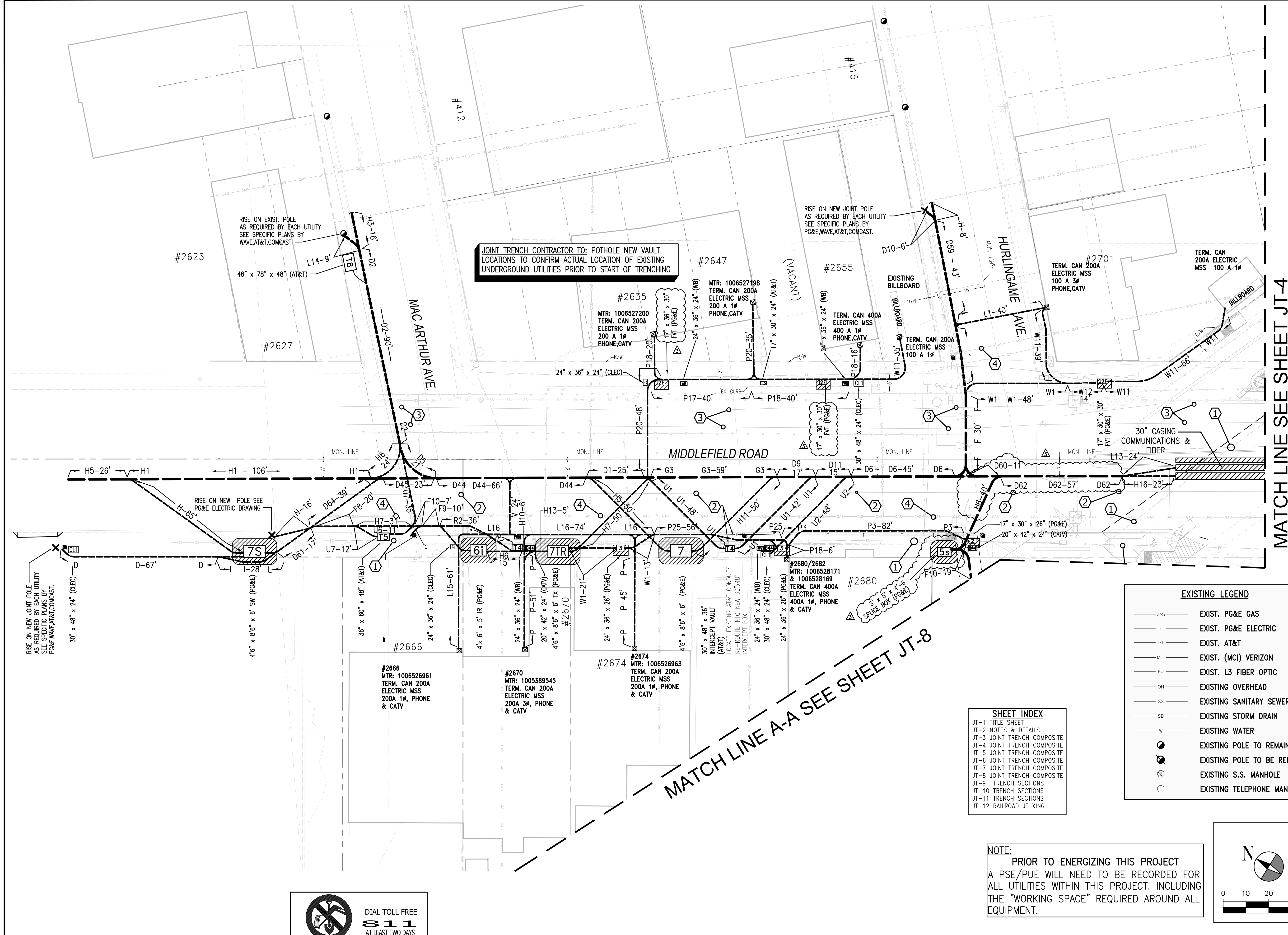
VIZION DATE LAST WORKED ON: 12-21-2020

JT-2 (REV)
SHEET 118 OF 140

FILENAME: J:\VAPORBOX\PROJECTS\2015-15-646 MIDDLEFIELD ROAD, REDWOOD CITY\VISA WORK\15-646 JT-2



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021



JOINT TRENCH CONTRACTOR TO: POTHOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

MATCH LINE SEE SHEET JT-4

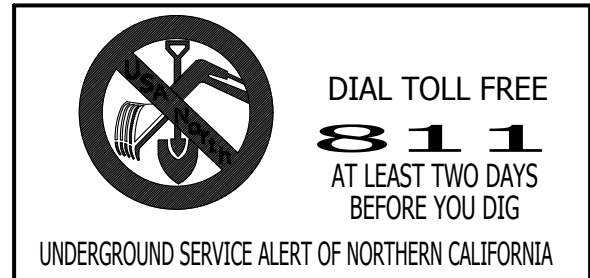
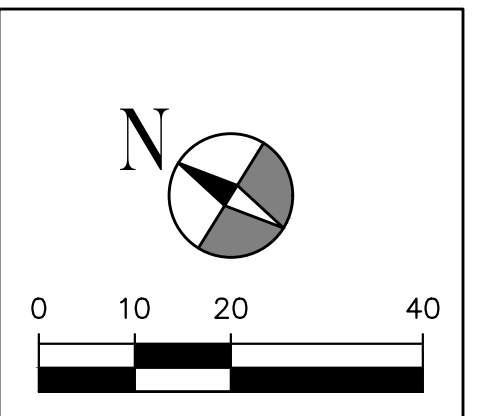
MATCH LINE A-A SEE SHEET JT-8

| PROPOSED LEGEND | |
|-----------------|---|
| | PROPOSED JOINT TRENCH MAIN |
| | PROPOSED JOINT TRENCH MINOR |
| | 4'-6" x 8'-6" x 6" SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| | 4'-6" x 8'-6" x 6" SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| | 4'-6" x 8'-6" x 6" DUPLEX TXFMR. (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT |
| | 4' x 6'-6" x 5' SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| | 4' x 6'-6" x 5' SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| | 4' x 6'-6" x 5' INTERRUPTER (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| | 3' x 5' x 4'-6" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| | 3' x 5' x 30" SECONDARY BOX (PG&E) WORKING SPACE SHOWN |
| | 24" x 36" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| | 24" x 36" x 26" SPLICE BOX (PG&E) FULL TRAFFIC RATED WORKING SPACE SHOWN |
| | 17" x 30" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| | 17" x 30" x 30" SPLICE BOX (PG&E) TRAFFIC RATED WORKING SPACE SHOWN |
| | 48" x 78" x 48" SPLICE BOX (AT&T) |
| | 36" x 60" x 48" SPLICE BOX (AT&T) |
| | 30" x 48" x 36" SPLICE BOX (AT&T) |
| | 30" x 60" x 36" SPLICE BOX (AT&T) |
| | 17" x 30" x 24" SPLICE BOX (AT&T) |
| | 20" x 42" x 24" SPLICE BOX - (COMCAST) |
| | 24" x 36" x 24" SPLICE BOX - (WAVE) |
| | 30" x 48" x 24" SPLICE BOX (C.L.E.C.) |
| | 24" x 36" x 24" SPLICE BOX (C.L.E.C.) |
| | STREET LIGHT WITH 30" BASE |
| | PEDESTRIAN LIGHT |
| | 11" x 17" x 12" "N-9" SPLICE BOX (S.L.) |
| | EXISTING JOINT POLE TO BE REMOVED |
| | EXISTING JOINT POLE TO REMAIN |
| | PROPOSED NEW JOINT POLE LOCATION |
| | IRRIGATION CONTROLLER |
| | 100 AMP METER PEDESTAL (I.C. & TRAF. SIG.) |
| | PROTECT IN PLACE - EXISTING MCI/VERIZON CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| | PROTECT IN PLACE - EXISTING CENTURY LINK CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| | PROTECT IN PLACE - EXISTING FIBER CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| | PROTECT IN PLACE - EXISTING PG&E GAS DURING JOINT TRENCH CONSTRUCTION |
| | PROTECT IN PLACE - EXISTING PG&E ELECTRIC |

| EXISTING LEGEND | |
|-----------------|-----------------------------|
| | EXIST. PG&E GAS |
| | EXIST. PG&E ELECTRIC |
| | EXIST. AT&T |
| | EXIST. (MCI) VERIZON |
| | EXIST. L3 FIBER OPTIC |
| | EXISTING OVERHEAD |
| | EXISTING SANITARY SEWER |
| | EXISTING STORM DRAIN |
| | EXISTING WATER |
| | EXISTING POLE TO REMAIN |
| | EXISTING POLE TO BE REMOVED |
| | EXISTING S.S. MANHOLE |
| | EXISTING TELEPHONE MANHOLE |

| SHEET INDEX | |
|-------------|------------------------|
| JT-1 | TITLE SHEET |
| JT-2 | NOTES & DETAILS |
| JT-3 | JOINT TRENCH COMPOSITE |
| JT-4 | JOINT TRENCH COMPOSITE |
| JT-5 | JOINT TRENCH COMPOSITE |
| JT-6 | JOINT TRENCH COMPOSITE |
| JT-7 | JOINT TRENCH COMPOSITE |
| JT-8 | JOINT TRENCH COMPOSITE |
| JT-9 | TRENCH SECTIONS |
| JT-10 | TRENCH SECTIONS |
| JT-11 | TRENCH SECTIONS |
| JT-12 | RAILROAD JT XING |

NOTE:
 PRIOR TO ENERGIZING THIS PROJECT A PSE/PUE WILL NEED TO BE RECORDED FOR ALL UTILITIES WITHIN THIS PROJECT. INCLUDING THE "WORKING SPACE" REQUIRED AROUND ALL EQUIPMENT.



NOTE TO CONTRACTOR:
 FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH SHEET (JT-2)

CONTRACTOR NOTES:
 "POT HOLE" EXISTING PAVEMENT TO VERIFY EXISTING PAVEMENT SECTION CONSTRUCTION, PRIOR TO INSTALLING THE "JOINT TRENCH".
 OPEN-CUT TRENCHING MAY NOT BE PREFERRED METHOD OF CONSTRUCTION. CONTRACTOR MAY USE THE OPTION OF DIRECTIONAL DRILLING TO INSTALL CONDUITS.
 NO ADDITIONAL PAYMENTS WILL BE MADE BASED ON EXISTING CONDITIONS.

Vizion Utility PARTNERS
 UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
 7901 STONERIDGE DR., SUITE 200 PLEASANTON, CA 94588
 Tel (925) 662-1114

REGISTERED PROFESSIONAL ENGINEER
 DAVID B. VOONHIE
 No. 69423
 Exp. 03/31-22
 CIVIL
 STATE OF CALIFORNIA
 DATE: 09-20-2020

COUNTY OF SAN MATEO
 PUBLIC WORKS

| | | |
|---|---|--|
| DESIGNED BY: M.W. | MIDDLEFIELD ROAD | SCALE: 1"=20' |
| CHECKED BY: D.V. | UNDERGROUND UTILITY DISTRICT (PHASE II) | DATE: 12-23-2020 |
| DRAWN BY: M.W. | JOINT TRENCH COMPOSITE | FILE NO.: 15-646 |
| ISSUE FOR BID: 12-23-2020 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR |
| REVISION: _____ | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 |
| VISION UTILITY PARTNERS PROJECT MANAGER T. NGUYEN | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | VISION DATE LAST WORKED ON: 12-21-2020 |
| | | JT-3 (REV) SHEET 119 OF 141 |

FILENAME: J:\URPROJ\PROJECTS\2015\15-646 MIDDLEFIELD ROAD, REDWOOD CITY\CA WORK\PS 15-646 JT MIDDLEFIELD (JT-3)



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021

EXISTING LEGEND

| | |
|-------|-----------------------------|
| — GAS | EXIST. PG&E GAS |
| — E | EXIST. PG&E ELECTRIC |
| — TEL | EXIST. AT&T |
| — MCI | EXIST. (MCI) VERIZON |
| — FO | EXIST. L3 FIBER OPTIC |
| — OH | EXISTING OVERHEAD |
| — SS | EXISTING SANITARY SEWER |
| — SD | EXISTING STORM DRAIN |
| — W | EXISTING WATER |
| ● | EXISTING POLE TO REMAIN |
| ○ | EXISTING POLE TO BE REMOVED |
| ⊙ | EXISTING S.S. MANHOLE |
| ⊕ | EXISTING TELEPHONE MANHOLE |

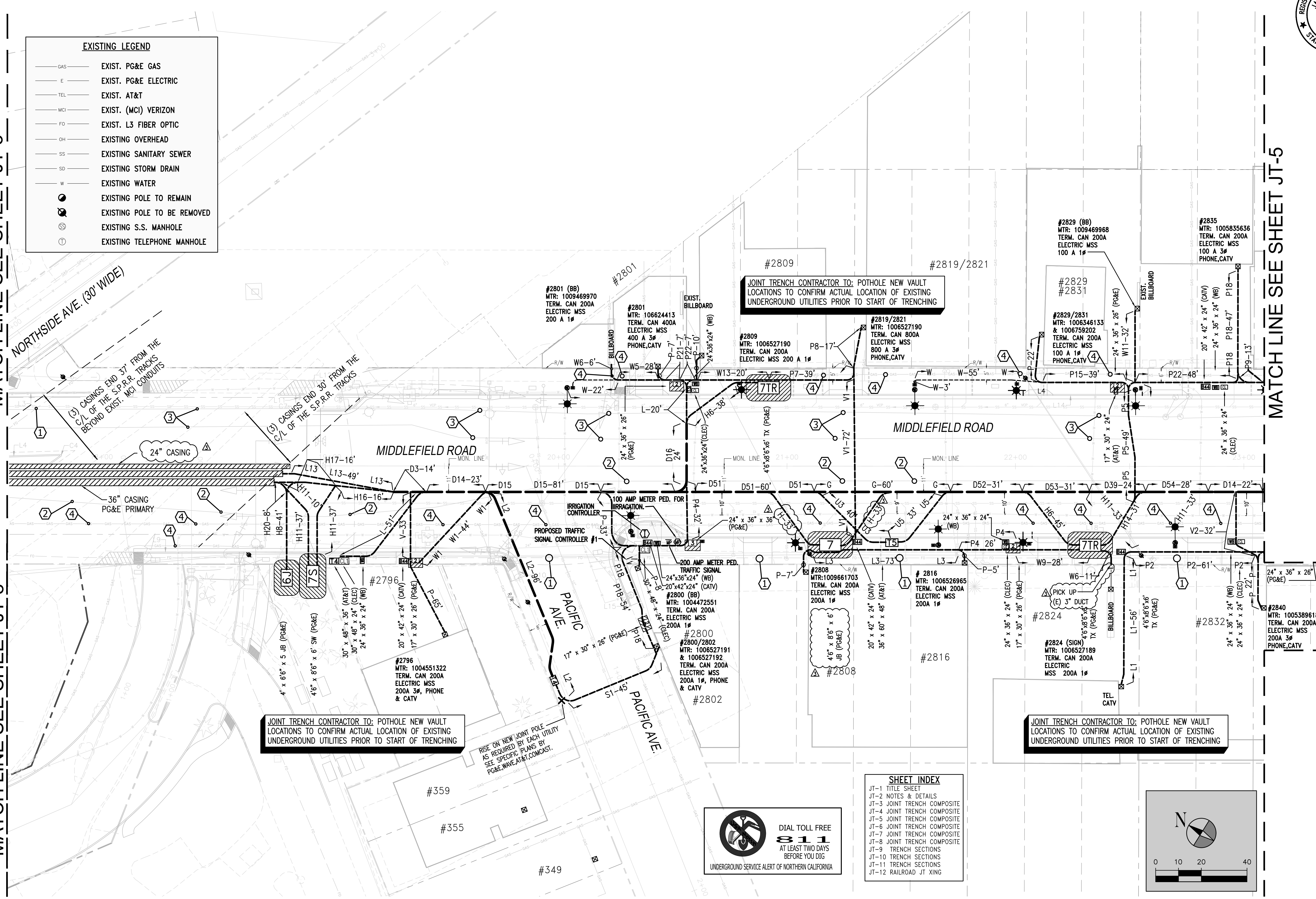
PROPOSED LEGEND

| | |
|------|---|
| --- | PROPOSED JOINT TRENCH MAIN |
| --- | PROPOSED JOINT TRENCH MINOR |
| 7S | 4'-6" x 8'-6" x 6" SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 7 | 4'-6" x 8'-6" x 6" SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 7TR | 4'-6" x 8'-6" x 6" DUPLEX TXFMR. (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT |
| 6S | 4' x 6'-6" x 5' SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 6J | 4' x 6'-6" x 5' SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 6i | 4' x 6'-6" x 5' INTERRUPTER (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 5s | 3' x 5' x 4'-6" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 5 | 3' x 5' x 30" SECONDARY BOX (PG&E) WORKING SPACE SHOWN |
| 3S | 24" x 36" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 3SF | 24" x 36" x 26" SPLICE BOX (PG&E) FULL TRAFFIC RATED WORKING SPACE SHOWN |
| 3S | 17" x 30" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 3S | 17" x 30" x 30" SPLICE BOX (PG&E) TRAFFIC RATED WORKING SPACE SHOWN |
| T8 | 48" x 78" x 48" SPLICE BOX (AT&T) |
| T5 | 36" x 60" x 48" SPLICE BOX (AT&T) |
| T4 | 30" x 48" x 36" SPLICE BOX (AT&T) |
| T2 | 30" x 60" x 36" SPLICE BOX (AT&T) |
| W | 17" x 30" x 24" SPLICE BOX (AT&T) |
| W | 20" x 42" x 24" SPLICE BOX - (COMCAST) |
| W | 24" x 36" x 24" SPLICE BOX - (WAVE) |
| W | 30" x 48" x 24" SPLICE BOX (C.L.E.C) |
| W | 24" x 36" x 24" SPLICE BOX (C.L.E.C) |
| SL | STREET LIGHT WITH 30" BASE |
| PL | PEDESTRIAN LIGHT |
| S.L. | 11"x17"x12" "N-9" SPLICE BOX (S.L.) |
| ○ | EXISTING JOINT POLE TO BE REMOVED |
| ● | EXISTING JOINT POLE TO REMAIN |
| X | PROPOSED NEW JOINT POLE LOCATION |
| ⊙ | IRRIGATION CONTROLLER |
| ⊙ | 100 AMP METER PEDESTAL (I.C. & TRAF. SIG.) |
| ① | PROTECT IN PLACE - EXISTING MCI/VERIZON CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ② | PROTECT IN PLACE - EXISTING CENTURY LINK CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ③ | PROTECT IN PLACE - EXISTING FIBER CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ④ | PROTECT IN PLACE - EXISTING PG&E GAS DURING JOINT TRENCH CONSTRUCTION |
| ⑤ | PROTECT IN PLACE - EXISTING PG&E ELECTRIC DURING JOINT TRENCH CONSTRUCTION |

MATCH LINE SEE SHEET JT-3

MATCH LINE SEE SHEET JT-5

MATCH LINE SEE SHEET JT-8



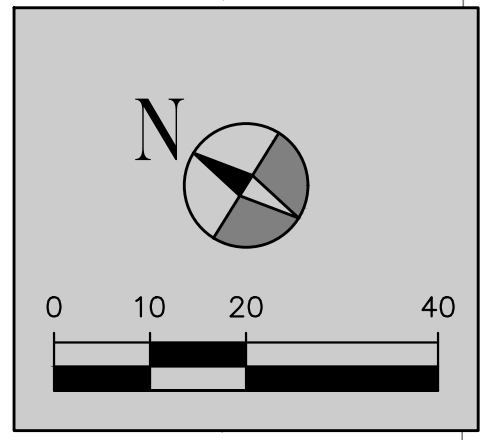
JOINT TRENCH CONTRACTOR TO: POT HOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

JOINT TRENCH CONTRACTOR TO: POT HOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

JOINT TRENCH CONTRACTOR TO: POT HOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

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| JT-2 | NOTES & DETAILS |
| JT-3 | JOINT TRENCH COMPOSITE |
| JT-4 | JOINT TRENCH COMPOSITE |
| JT-5 | JOINT TRENCH COMPOSITE |
| JT-6 | JOINT TRENCH COMPOSITE |
| JT-7 | JOINT TRENCH COMPOSITE |
| JT-8 | JOINT TRENCH COMPOSITE |
| JT-9 | TRENCH SECTIONS |
| JT-10 | TRENCH SECTIONS |
| JT-11 | TRENCH SECTIONS |
| JT-12 | RAILROAD JT XING |



CONTRACTOR NOTES:

"POT HOLE" EXISTING PAVEMENT TO VERIFY EXISTING PAVEMENT SECTION CONSTRUCTION, PRIOR TO INSTALLING THE "JOINT TRENCH".

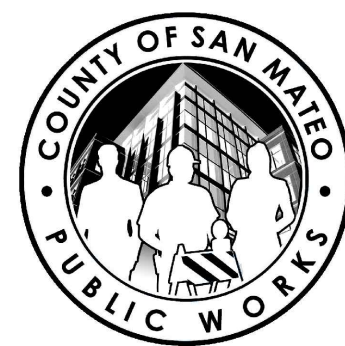
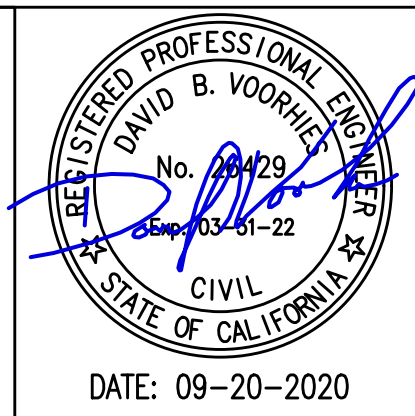
OPEN-CUT TRENCHING MAY NOT BE PREFERRED METHOD OF CONSTRUCTION. CONTRACTOR MAY USE THE OPTION OF DIRECTIONAL DRILLING TO INSTALL CONDUITS.

NO ADDITIONAL PAYMENTS WILL BE MADE BASED ON EXISTING CONDITIONS.

NOTE: PRIOR TO ENERGIZING THIS PROJECT A PSE/PUE WILL NEED TO BE RECORDED FOR ALL UTILITIES WITHIN THIS PROJECT, INCLUDING THE "WORKING SPACE" REQUIRED AROUND ALL EQUIPMENT.

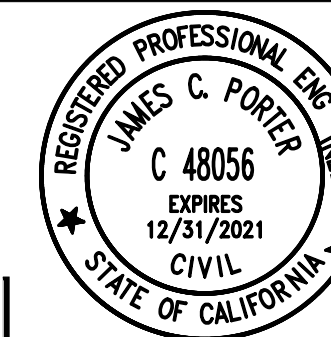
NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH SHEET (JT-2)

Vizion Utility PARTNERS
 UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
 7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94588
 (Tel) (925) 662-1114



| | | | | |
|----------------------------|------------|---|--|--|
| DESIGNED BY: M.W. | | MIDDLEFIELD ROAD | | SCALE: 1"=20' |
| CHECKED BY: D.V. | | UNDERGROUND UTILITY DISTRICT (PHASE II) | | DATE: 12-23-2020 |
| DRAWN BY: M.W. | | JOINT TRENCH COMPOSITE | | FILE NO.: 15-646 |
| ADDENDUM | 12-23-2020 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | | 555 COUNTY CENTER, 5th FLOOR |
| ISSUE FOR BID | 10-19-2020 | SAN MATEO COUNTY | | REDWOOD CITY, CALIFORNIA 94063 |
| REVISION | DATE | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | VIZION DATE LAST WORKED ON: 12-21-2020 |
| PROJECT MANAGER: T. NGUYEN | | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | JT-4 (REV) SHEET 120 OF 140 |

FILENAME: J:\INFOBOX\PROJECTS\2015\15-646 MIDDLEFIELD ROAD, REDWOOD CITY\CA WORK\PS 15-646 JT MIDDLEFIELD (JT-4)

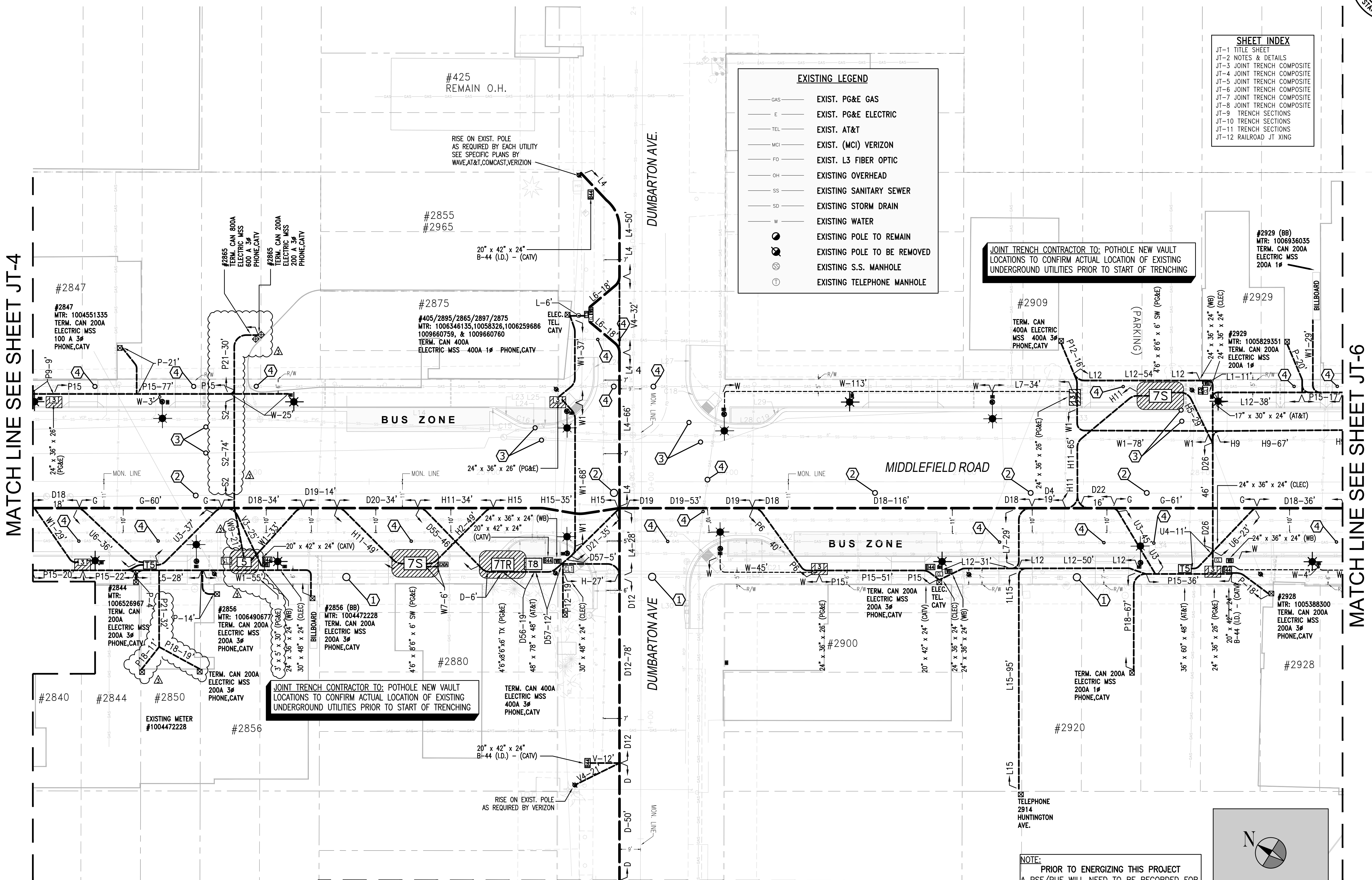


APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021

| EXISTING LEGEND | |
|-----------------|-----------------------------|
| --- | EXIST. PG&E GAS |
| --- | EXIST. PG&E ELECTRIC |
| --- | EXIST. AT&T |
| --- | EXIST. (MCI) VERIZON |
| --- | EXIST. L3 FIBER OPTIC |
| --- | EXISTING OVERHEAD |
| --- | EXISTING SANITARY SEWER |
| --- | EXISTING STORM DRAIN |
| --- | EXISTING WATER |
| ● | EXISTING POLE TO REMAIN |
| ○ | EXISTING POLE TO BE REMOVED |
| ○ | EXISTING S.S. MANHOLE |
| ○ | EXISTING TELEPHONE MANHOLE |

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| JT-5 | JOINT TRENCH COMPOSITE |
| JT-6 | JOINT TRENCH COMPOSITE |
| JT-7 | JOINT TRENCH COMPOSITE |
| JT-8 | JOINT TRENCH COMPOSITE |
| JT-9 | TRENCH SECTIONS |
| JT-10 | TRENCH SECTIONS |
| JT-11 | TRENCH SECTIONS |
| JT-12 | RAILROAD JT XING |

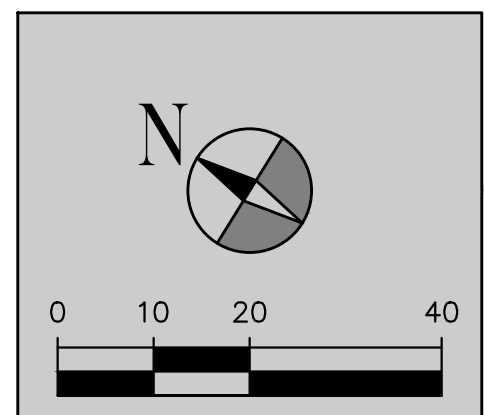
| PROPOSED LEGEND | |
|-----------------|---|
| --- | PROPOSED JOINT TRENCH MAIN |
| --- | PROPOSED JOINT TRENCH MINOR |
| 7S | 4'-6" x 8'-6" x 6" SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 7 | 4'-6" x 8'-6" x 6" SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 7TR | 4'-6" x 8'-6" x 6" DUPLEX TXFMR. (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT |
| 6S | 4' x 6'-6" x 5' SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 6J | 4' x 6'-6" x 5' SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 6i | 4' x 6'-6" x 5' INTERRUPTER (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX |
| 5s | 3' x 5' x 4'-6" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 5 | 3' x 5' x 30" SECONDARY BOX (PG&E) WORKING SPACE SHOWN |
| 3S | 24" x 36" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 3SF | 24" x 36" x 26" SPLICE BOX (PG&E) FULL TRAFFIC RATED WORKING SPACE SHOWN |
| 2S | 17" x 30" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN |
| 2 | 17" x 30" x 30" SPLICE BOX (PG&E) TRAFFIC RATED WORKING SPACE SHOWN |
| T8 | 48" x 78" x 48" SPLICE BOX (AT&T) |
| T5 | 36" x 60" x 48" SPLICE BOX (AT&T) |
| T4 | 30" x 48" x 36" SPLICE BOX (AT&T) |
| T2 | 30" x 60" x 36" SPLICE BOX (AT&T) |
| 1 | 17" x 30" x 24" SPLICE BOX (AT&T) |
| 1A | 20" x 42" x 24" SPLICE BOX - (COMCAST) |
| 1B | 24" x 36" x 24" SPLICE BOX - (WAVE) |
| 1C | 30" x 48" x 24" SPLICE BOX (C.L.E.C) |
| 1D | 24" x 36" x 24" SPLICE BOX (C.L.E.C) |
| ● | STREET LIGHT WITH 30" BASE |
| ● | PEDESTRIAN LIGHT |
| ■ | 11"x17"x12" "N-9" SPLICE BOX (S.L.) |
| ○ | EXISTING JOINT POLE TO BE REMOVED |
| ○ | EXISTING JOINT POLE TO REMAIN |
| ○ | PROPOSED NEW JOINT POLE LOCATION |
| ○ | IRRIGATION CONTROLLER |
| ○ | 100 AMP METER PEDESTAL (I.C. & TRAF. SIG.) |
| ① | PROTECT IN PLACE - EXISTING MCI/VERIZON CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ② | PROTECT IN PLACE - EXISTING CENTURY LINK CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ③ | PROTECT IN PLACE - EXISTING FIBER CONDUITS DURING JOINT TRENCH CONSTRUCTION |
| ④ | PROTECT IN PLACE - EXISTING PG&E GAS DURING JOINT TRENCH CONSTRUCTION |
| ⑤ | PROTECT IN PLACE - EXISTING PG&E ELECTRIC DURING JOINT TRENCH CONSTRUCTION |



JOINT TRENCH CONTRACTOR TO: POTHOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

JOINT TRENCH CONTRACTOR TO: POTHOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

NOTE:
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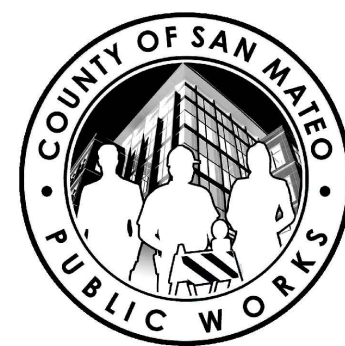
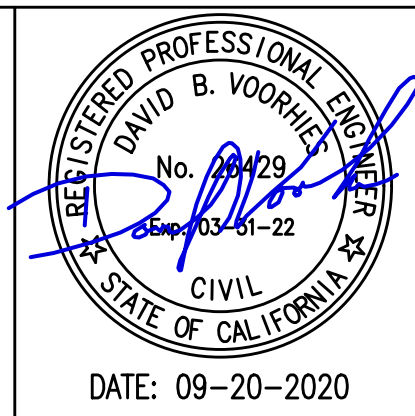
CONTRACTOR NOTES:
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NOTE TO CONTRACTOR:
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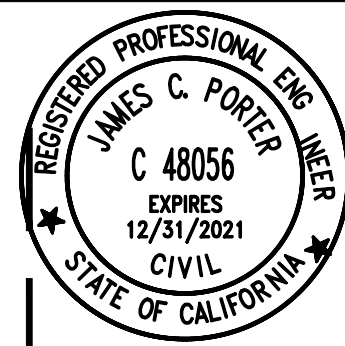
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| JT-9 | TRENCH SECTIONS |
| JT-10 | TRENCH SECTIONS |

Vizion Utility PARTNERS
 UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
 7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94588
 Tel: (925) 662-1114

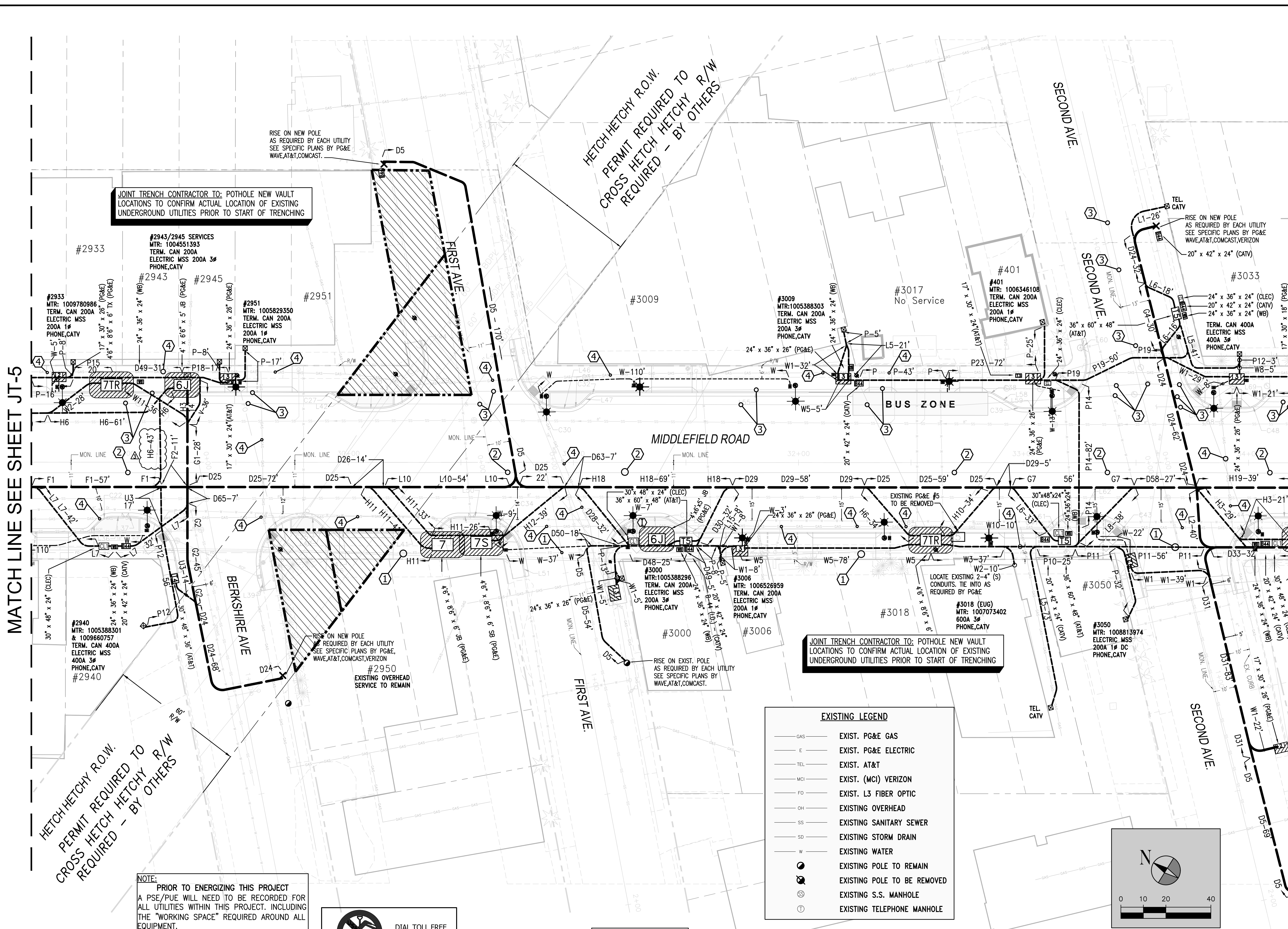


| | | | | |
|---|---|--|--|-----------------------------|
| DESIGNED BY: M.W. | | MIDDLEFIELD ROAD | | SCALE: 1"=20' |
| CHECKED BY: D.V. | | UNDERGROUND UTILITY DISTRICT (PHASE II) | | DATE: 12-23-2020 |
| ADDENDUM A 12-23-2020 | | JOINT TRENCH COMPOSITE | | FILE NO.: 15-646 |
| ISSUE FOR BID 10-19-2020 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063 | | |
| REVISION DATE | SAN MATEO COUNTY | VIZION UTILITY PARTNERS PROJECT MANAGER T. NGUYEN | | |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | VIZION DATE LAST WORKED ON: 12-21-2020 | | JT-5 (REV) SHEET 121 OF 140 |

FILENAME: J:\PROJECTS\2015-646 MIDDLEFIELD ROAD, REDWOOD CITY\WORK\PS 15-646 JT MIDDLEFIELD (JT-5)



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021



- PROPOSED LEGEND**
- PROPOSED JOINT TRENCH MAIN
 - PROPOSED JOINT TRENCH MINOR
 - [Symbol] 4'-6" x 8'-6" x 6" SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX
 - [Symbol] 4'-6" x 8'-6" x 6" SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX
 - [Symbol] 4'-6" x 8'-6" x 6" DUPLEX TXFM. (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT
 - [Symbol] 4' x 6'-6" x 5' SWITCH BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX
 - [Symbol] 4' x 6'-6" x 5' SPLICE BOX (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX
 - [Symbol] 4' x 6'-6" x 5' INTERRUPTER (PG&E) WORKING SPACE SHOWN MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER BOX
 - [Symbol] 3' x 5' x 4'-6" SPLICE BOX (PG&E) WORKING SPACE SHOWN
 - [Symbol] 3' x 5' x 30" SECONDARY BOX (PG&E) WORKING SPACE SHOWN
 - [Symbol] 24" x 36" x 26" SPLICE BOX (PG&E) WORKING SPACE SHOWN
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 - [Symbol] T8 48" x 78" x 48" SPLICE BOX (AT&T)
 - [Symbol] T5 36" x 60" x 48" SPLICE BOX (AT&T)
 - [Symbol] T4 30" x 48" x 36" SPLICE BOX (AT&T)
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 - [Symbol] T1 17" x 30" x 24" SPLICE BOX (AT&T)
 - [Symbol] T0 20" x 42" x 24" SPLICE BOX - (COMCAST)
 - [Symbol] T-1 24" x 36" x 24" SPLICE BOX - (WAVE)
 - [Symbol] T-2 30" x 48" x 24" SPLICE BOX (C.L.E.C)
 - [Symbol] T-3 24" x 36" x 24" SPLICE BOX (C.L.E.C)
 - [Symbol] Street Light with 30" Base
 - [Symbol] Pedestrian Light
 - [Symbol] 11"x17"x12" N-9" SPLICE BOX (S.L.)
 - [Symbol] Existing Joint Pole to be Removed
 - [Symbol] Existing Joint Pole to Remain
 - [Symbol] Proposed New Joint Pole Location
 - [Symbol] Irrigation Controller
 - [Symbol] 100 AMP Meter Pedestal (I.C. & TRAF. SIG.)
 - [Symbol] 1 Protect in Place - Existing MCI/Verizon Conduits During Joint Trench Construction
 - [Symbol] 2 Protect in Place - Existing Century Link Conduits During Joint Trench Construction
 - [Symbol] 3 Protect in Place - Existing Fiber Conduits During Joint Trench Construction
 - [Symbol] 4 Protect in Place - Existing PG&E Gas During Joint Trench Construction
 - [Symbol] 5 Protect in Place - Existing PG&E Electric During Joint Trench Construction

MATCH LINE SEE SHEET JT-7

MATCH LINE SEE SHEET JT-5

HETCH HETCHY R.O.W.
 PERMIT REQUIRED TO
 CROSS HETCH HETCHY R/W
 REQUIRED - BY OTHERS

HETCH HETCHY R.O.W.
 PERMIT REQUIRED TO
 CROSS HETCH HETCHY R/W
 REQUIRED - BY OTHERS

JOINT TRENCH CONTRACTOR TO: POT HOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

JOINT TRENCH CONTRACTOR TO: POT HOLE NEW VAULT LOCATIONS TO CONFIRM ACTUAL LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF TRENCHING

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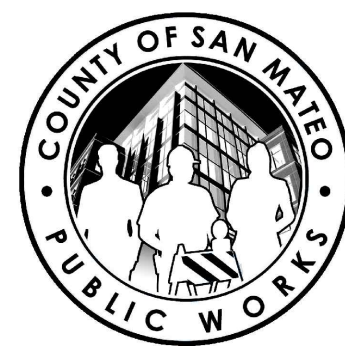
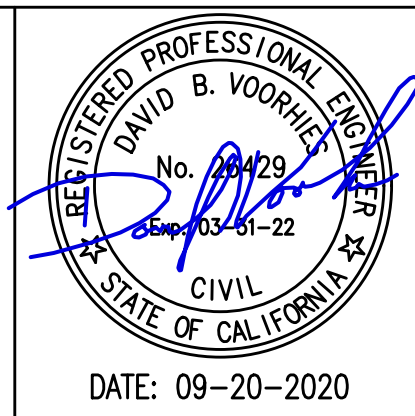
NOTE TO CONTRACTOR:
 FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH SHEET (JT-2)

CONTRACTOR NOTES:
 "POT HOLE" EXISTING PAVEMENT TO VERIFY EXISTING PAVEMENT SECTION CONSTRUCTION, PRIOR TO INSTALLING THE "JOINT TRENCH".
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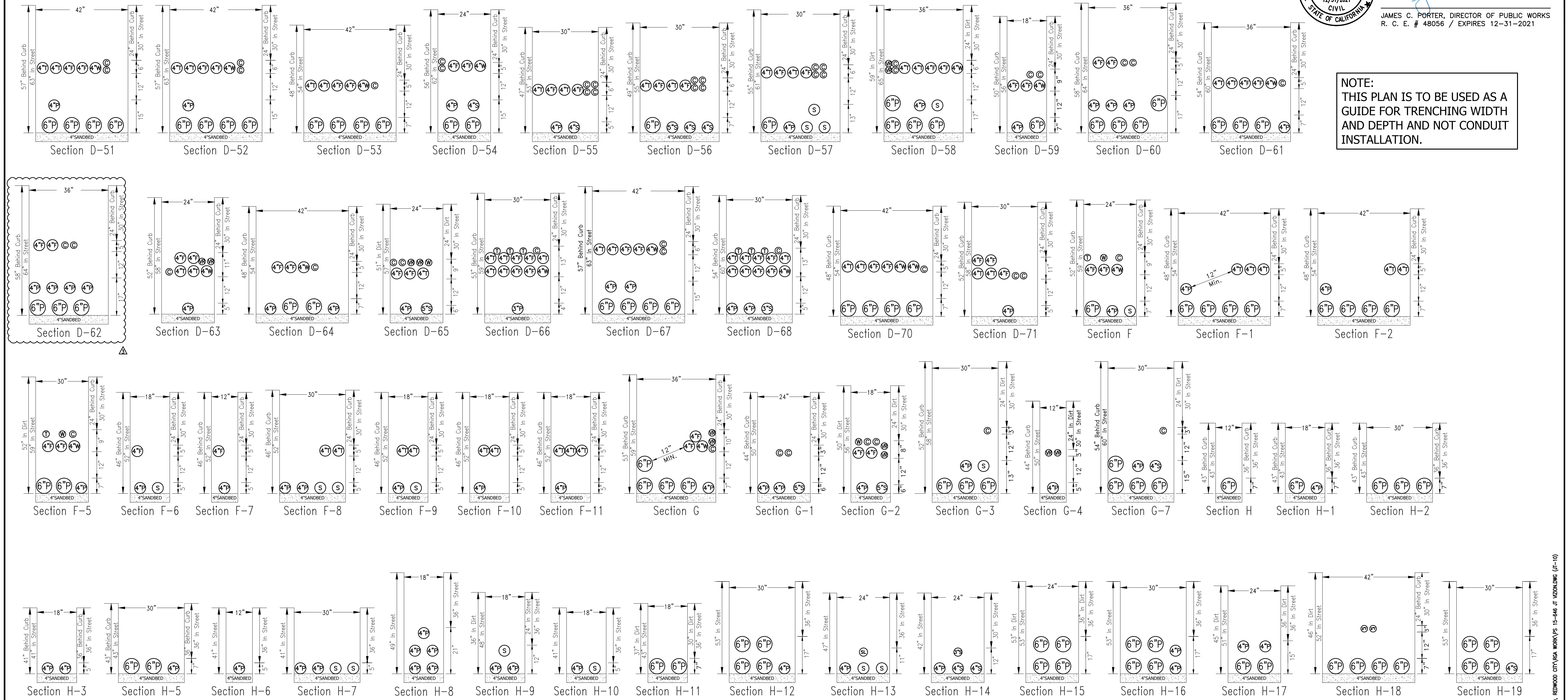
| | | | | |
|---|------------|---|--------------------------------|--|
| DESIGNED BY: M.W. | | MIDDLEFIELD ROAD | | SCALE: 1"=20' |
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| DRAWN BY: M.W. | | JOINT TRENCH COMPOSITE | | FILE NO: 15-646 |
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| REVISION | DATE | SAN MATEO COUNTY | REDWOOD CITY, CALIFORNIA 94063 | |
| VIZION UTILITY PARTNERS PROJECT MANAGER T. NGUYEN | | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | VIZION DATE LAST WORKED ON: 10-19-2020 |
| | | | | JT-6 (REV) SHEET 122 OF 140 |

FILENAME: J:\WORKBOOK PROJECTS\2015\15-646 MIDDLEFIELD ROAD, REDWOOD CITY\CA WORK\PS 15-646 JT MIDDLEFIELD (JT-6)



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021

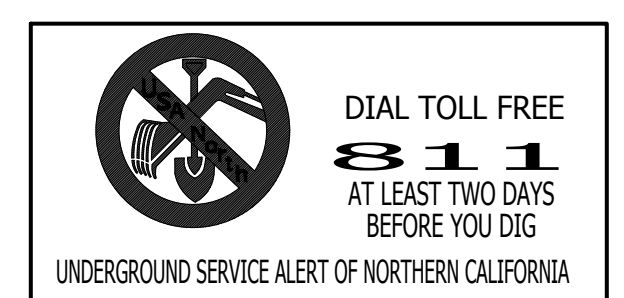
NOTE:
 THIS PLAN IS TO BE USED AS A
 GUIDE FOR TRENCHING WIDTH
 AND DEPTH AND NOT CONDUIT
 INSTALLATION.



TRENCH OCCUPANCY GUIDE

| SECTION | G | T | C | S | P | C.L.E.C. |
|---------|---|---|---|---|---|----------|
| A* | X | X | X | X | X | |
| B* | X | X | X | X | X | |
| C* | X | X | X | X | X | |
| D* | X | X | X | X | X | X+ |
| E* | X | X | X | X | X | |
| F* | X | X | X | X | X | X+ |
| G* | X | X | X | X | X | X+ |
| H* | X | X | X | X | X | |
| I | X | X | X | | | |
| J | X | X | X | | | |
| K | X | X | X | | | |
| L | X | X | X | | | X+ |
| M | X | X | X | X | X | |
| N | X | X | X | X | X | |
| O | X | X | X | X | X | |
| P | X | X | X | X | X | X+ |
| Q | X | X | X | X | X | |
| R | X | X | X | X | X | |
| S | X | X | X | X | X | |
| T | X | X | X | X | X | |
| U | X | X | X | X | X | X+ |
| V | X | X | X | X | X | |
| W | X | X | X | X | X | |
| X | X | X | X | X | X | |

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY
 +THESE SECTIONS MAY OR MAY NOT CONTAIN C.L.E.C. CONDUIT



NOTE TO CONTRACTOR:
 FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH SHEET (JT-2)

SOIL NOTES:
 1. VIZION UTILITY PARTNERS IS NOT RESPONSIBLE FOR ANY SOILS ENGINEERING TO DETERMINE THE ABILITY TO CONSTRUCT OR THE PROJECT CONDITIONS.
 2. VIZION UTILITY PARTNERS ASSUMES NO RESPONSIBILITY FOR ADDITIONAL WORK DUE TO ADVERSE JOB SITE CONDITIONS.
 3. PG&E WILL REQUIRE SOILS ANALYSIS FOR SUBSURFACE TRANSFORMERS (If Applicable).

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

| DUCT | DUCT | | | | | | | | | | Min. Cover |
|------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| | G | T | F | WB | CL | C | S | P | | | |
| G Gas | 0" | 12" | 12" | 12" | 12" | 12" | 6" | 12" | 24" | 30" | In Street |
| T Telephone (Duct) | 12" | 0" | 1" | 1" | 1" | 1" | 12" | 12" | 24" | 30" | In Street |
| C C.A.T.V. | 12" | 1" | 1" | 1" | 1" | 1" | 12" | 12" | 24" | 30" | In Street |
| F Fiber (CLEC) | 12" | 1" | 1" | 1" | 1" | 1" | 12" | 12" | 24" | 30" | In Street |
| WB CATV (WAVE) | 12" | 1" | 1" | 0" | 1" | 1" | 12" | 12" | 24" | 30" | In Street |
| CL CATV (CENTURY LINK) | 12" | 1" | 1" | 1" | 0" | 1" | 12" | 12" | 24" | 30" | In Street |
| S Electric Secondary | 6" | 12" | 12" | 12" | 12" | 12" | 3" | 3" | 24" | 30" | In Street |
| P Electric Primary | 12" | 12" | 12" | 12" | 12" | 12" | 3" | 3" | 36" | 36" | In Street |

CONTRACTOR NOTES:
 1. The symbols (P) (S) (T) (C) (G) (F) (WB) (CL) (C) (S) (P) indicate occupancy only. See Electric, Gas, Comcast, & AT&T plans for exact size and number of conduits.
 2. This plan is to be used as a guide for trenching width and depth and not conduit installation.
 3. Contractor to include incidental trenching in splice box, vault, or transformer excavation in areas where no entrance or exit of trench is shown.

PG&E LEGEND
 (6" P) 6" PG&E PRIMARY CONDUIT
 (4" P) 4" PG&E PRIMARY CONDUIT
 (5" S) 5" PG&E SECONDARY CONDUIT
 (4" S) 4" PG&E SECONDARY CONDUIT
 (3" S) 3" PG&E SECONDARY CONDUIT

AT&T LEGEND
 (4" T) 4" AT&T CONDUIT
 (2" T) 2" AT&T CONDUIT

COMCAST LEGEND
 (2" C) 2" COMCAST CONDUIT

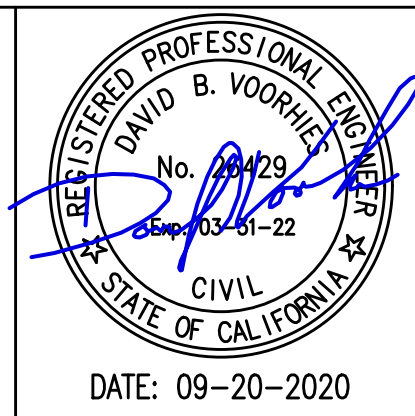
WAVE BROADBAND LEGEND
 (4" W) 4" WAVE CONDUIT
 (2" W) 2" WAVE CONDUIT

C.L.E.C. LEGEND
 (4" C) 4" C.L.E.C. CONDUIT

VERIZON LEGEND
 (2" V) 2" VERIZON CONDUIT

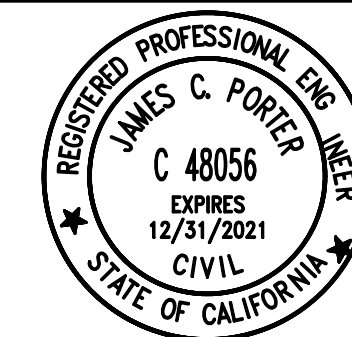
SL LEGEND
 (2" SL) 2" STREET LIGHT CONDUIT

Vizion Utility PARTNERS
 UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
 7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94588
 (Tel) 925.662.1114

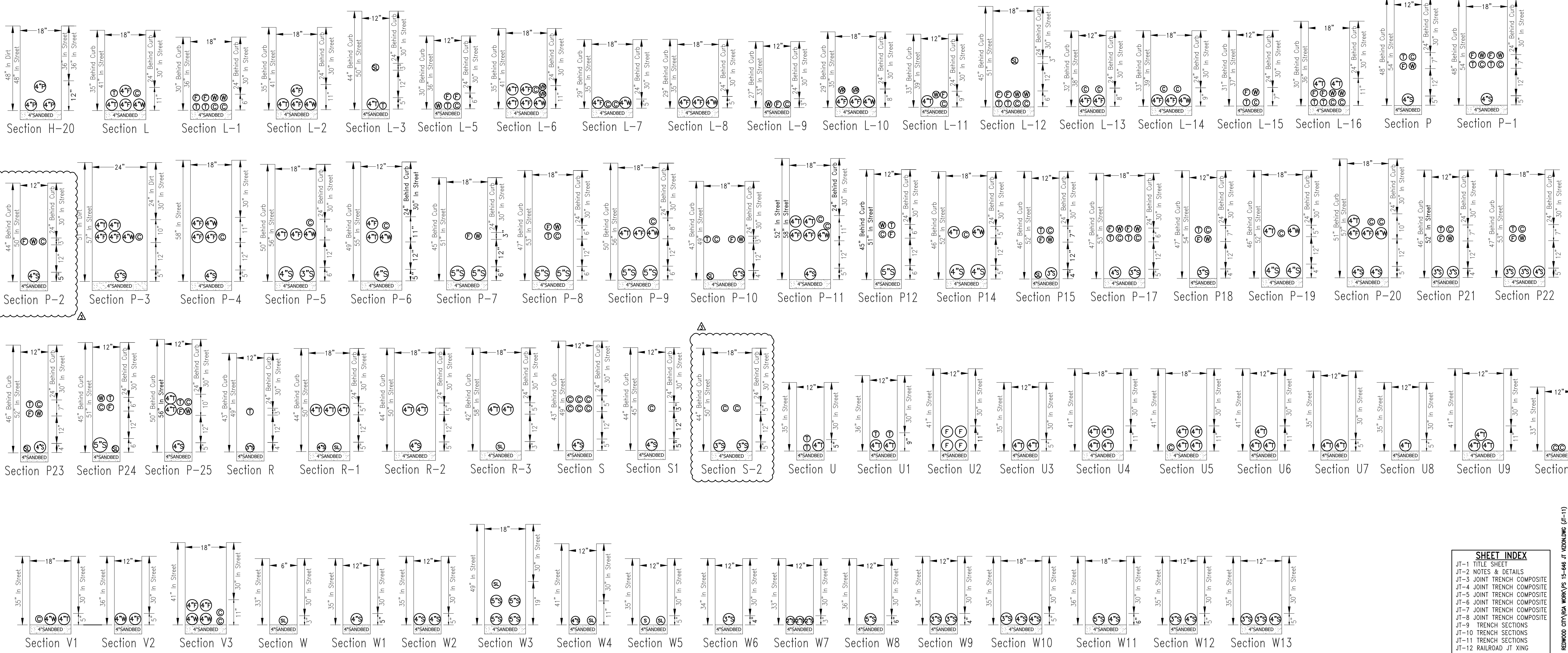


| | | | |
|--|---|---|------------------|
| DESIGNED BY: M.W. | MIDDLEFIELD ROAD UNDERGROUND UTILITY DISTRICT (PHASE II) | | SCALE: N.T.S. |
| CHECKED BY: D.V. | JOINT TRENCH COMPOSITE | | DATE: 12-23-2020 |
| DRAWN BY: M.W. | 555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063 | | FILE NO.: 15-646 |
| ISSUE FOR BID: 10-19-2020 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | |
| REVISION: DATE | SAN MATEO COUNTY | VIZION DATE LAST WORKED ON: 10-19-2020 | |
| VIZION UTILITY PARTNERS PROJECT MANAGER: T. NGUYEN | | JT-10 (REV) SHEET 126 OF 140 | |

FILENAME: J:\VOR\PROJECTS\2015-646 MIDDLEFIELD ROAD, REDWOOD CITY\CA WORKS\15-646 JT MIDDLEFIELD (JT-10)



APPROVED: _____
 DATE: 12/24/2020
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 R. C. E. # 48056 / EXPIRES 12-31-2021



| SECTION | G | T | C | S | P | C.L.E.C. |
|---------|---|---|---|---|---|----------|
| A* | X | X | X | X | X | |
| B* | X | X | X | X | X | |
| C* | X | X | X | X | X | |
| D* | | X | X | X | X | X+ |
| E* | X | | X | X | X | |
| F* | | X | X | X | X | X+ |
| G* | | | X | X | X | X+ |
| H* | | | X | X | X | |
| I | X | X | X | | | |
| J | X | X | | | | |
| K | X | X | X | | | |
| L | X | X | X | | | X+ |
| M | X | X | X | X | | |
| N | X | X | X | X | | |
| O | X | | X | X | | |
| P | | X | X | X | X | X+ |
| Q | X | X | X | X | | |
| R | | X | X | | | |
| S | | X | X | | | |
| T | X | | | | | |
| U | | X | | | | X+ |
| V | | | X | | | |
| W | | | | X | | |
| X | | | | | X | |

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NOTE TO CONTRACTOR:
 FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH SHEET (JT-2)

SOIL NOTES:
 1. VIZION UTILITY PARTNERS IS NOT RESPONSIBLE FOR ANY SOILS ENGINEERING TO DETERMINE THE ABILITY TO CONSTRUCT OR THE PROJECT CONDITIONS.
 2. VIZION UTILITY PARTNERS ASSUMES NO RESPONSIBILITY FOR ADDITIONAL WORK DUE TO ADVERSE JOB SITE CONDITIONS.
 3. PC&E WILL REQUIRE SOILS ANALYSIS FOR SUBSURFACE TRANSFORMERS (If Applicable).

| | G | T | F | WB | CL | C | S | P | Min. Cover |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| G Gas | 0" | 12" | 12" | 12" | 12" | 12" | 6" | 12" | 24", 30" in street |
| T Telephone (Duct) | 12" | 0" | 1" | 1" | 1" | 12" | 12" | 12" | 24", 30" in street |
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| CL CATV (CENTURY LINK) | 12" | 1" | 1" | 1" | 0" | 12" | 12" | 12" | 24", 30" in street |
| S Electric Secondary | 6" | 12" | 12" | 12" | 12" | 3" | 3" | 3" | 24", 30" in street |
| P Electric Primary | 12" | 12" | 12" | 12" | 12" | 12" | 3" | 3" | 30", 36" in street |

CONTRACTOR NOTES:
 1. The symbols (G, T, F, WB, CL, C, S, P) indicate occupancy only. See Electric, Gas, Comcast, & AT&T plans for exact size and number of conduits.
 2. This plan is to be used as a guide for trenching width and depth and not conduit installation.
 3. Contractor to include incidental trenching in splice box, vault, or transformer excavation in areas where no entrance or exit of trench is shown.

PG&E LEGEND
 (6"P) 6" PG&E PRIMARY CONDUIT
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COMCAST LEGEND
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WAVE BROADBAND LEGEND
 (4" W) 4" WAVE CONDUIT
 (2" W) 2" WAVE CONDUIT
C.L.E.C LEGEND
 (4" F) 4" CLEC CONDUIT

VERIZION LEGEND
 (2" V) 2" VERIZION CONDUIT
SL LEGEND
 (2" SL) 2" STREET LIGHT CONDUIT

Vizion Utility PARTNERS
 UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
 7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94558
 Tel (925) 682-1114

REGISTERED PROFESSIONAL ENGINEER
 No. 69129
 State of California
 CIVIL
 DATE: 09-20-2020

DESIGNED BY: M.W.
 CHECKED BY: D.V.
 DRAWN BY: M.W.

MIDDLEFIELD ROAD
 UNDERGROUND UTILITY DISTRICT (PHASE II)
JOINT TRENCH COMPOSITE

SCALE: N.T.S.
 DATE: 12-23-2020
 FILE NO.: 15-646

ISSUE FOR BID: 10-19-2020
 REVISION: DATE

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 SAN MATEO COUNTY

555 COUNTY CENTER, 5th FLOOR
 REDWOOD CITY, CALIFORNIA 94063

VIZION UTILITY PARTNERS
 PROJECT MANAGER
 T. NGUYEN

FOR REDUCED PLANS
 ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

VIZION DATE LAST WORKED ON: 10-19-2020
 JT-11 (REV)
 SHEET 127 OF 140

FILENAME: \\D:\PROJ\PROJECTS\2015\15-646 MIDDLEFIELD ROAD REDWOOD CITY\CA WORK\15-646 JT VIZION\11 (JT-11)

PG&E PRIMARY

Utility Line Crossing Lines and Cables Carrying More Than 750 Volts

- a. A minimum depth of 4.5 feet below the base of rail (BBR) to the top of the facility will be maintained.
- b. A minimum of 4.0 feet below natural grade (BNG) to the top of the facility will be maintained.
- c. The wireline must be encased completely across the railroad right of way with a rigid metallic conduit or non-metallic conduit (PVC) encased in a minimum of 3 inches of concrete.
- d. A 6-inch wide warning tape will be installed 1-foot BNG directly over the underground power line where located on railroad right of way outside the track ballast sections. No warning tape is required above directional boring routes.
- e. Crossings shall not be installed under or within 50 feet from the end of any railroad bridge, centerline of any culvert or switch area.
- f. A Railroad signal representative must be present during installation if railroad signals are in the vicinity of wireline crossing unless signal representative authorizes otherwise.

PG&E SECONDARY & COMMICATIONS

Utility Line Crossing Lines Carrying 750 Volts Or Less: Power, Television, Telephone, and Fiber Optic Lines and Cables
There are two types of clearances, overhead and underground. The purpose of the clearances is to allow a safe operating system without interfering with other systems.

Above-ground facilities should be located as far as possible from automobile or pedestrian crossings or constructed in such manner to allow automobile or pedestrian traffic adequate sight lines to see approaching trains. If space permits, the above-ground facilities should be located in such a way as to allow for additional future tracks. Although railroads do strive to keep derailments to a minimum, they do happen. Locations where derailments are most likely to happen are at turnouts, the outside of tight curves, ends of bridges, at road crossings and the pullout end of classification yards. Locating facilities at or near these locations should be avoided if possible.

All crossings should cross as near perpendicular to the track as possible but not less than at a 60 degree angle.

All wireline facility installations shall comply with the current published issue of the American National Standards Institute's (ANSI's) National Electrical Safety Code (NEC) and local governing authority.

- 1. Underground
 - a. A minimum depth of 4.5 feet below the base of rail (BBR) will be maintained except that a minimum of 5 feet BBR will be maintained for fiber optic cable wirelines.
 - b. A minimum of 3.0 feet below natural grade (BNG) will be maintained except fiber optic cable wirelines.
 - c. Casing must extend a minimum of 30 feet out from the centerline of the nearest track, when measured at right angles. The casing material shall be steel or rigid metal conduit (no PVC) for typical burial depths. PVC will be considered acceptable if the burial depth is at least 15 feet.
 - d. Horizontal directional drilling is not an approved method of installation unless the burial depth is at least 15 feet, the conduit/casing size is six inches or less, and the Interim Guidelines for Horizontal Directional Drilling Under Union Pacific Railroad Right of Way are followed. The interim guidelines were distributed by the Office of AVP Engineering Design on May 27, 2005.
 - e. Crossings shall not be installed under or within 50 feet from the end of any railroad bridge, centerline of any culvert or switch area.
 - f. A Railroad signal representative must be present during installation if railroad signals are in the vicinity of wireline

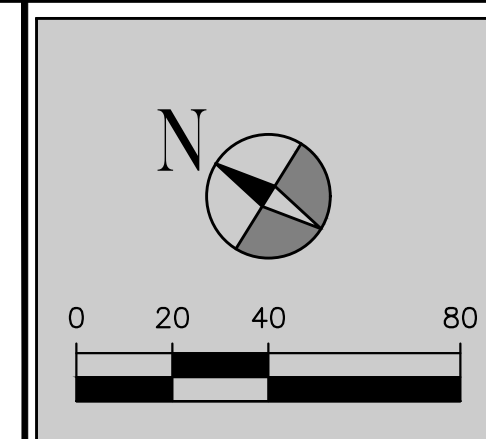
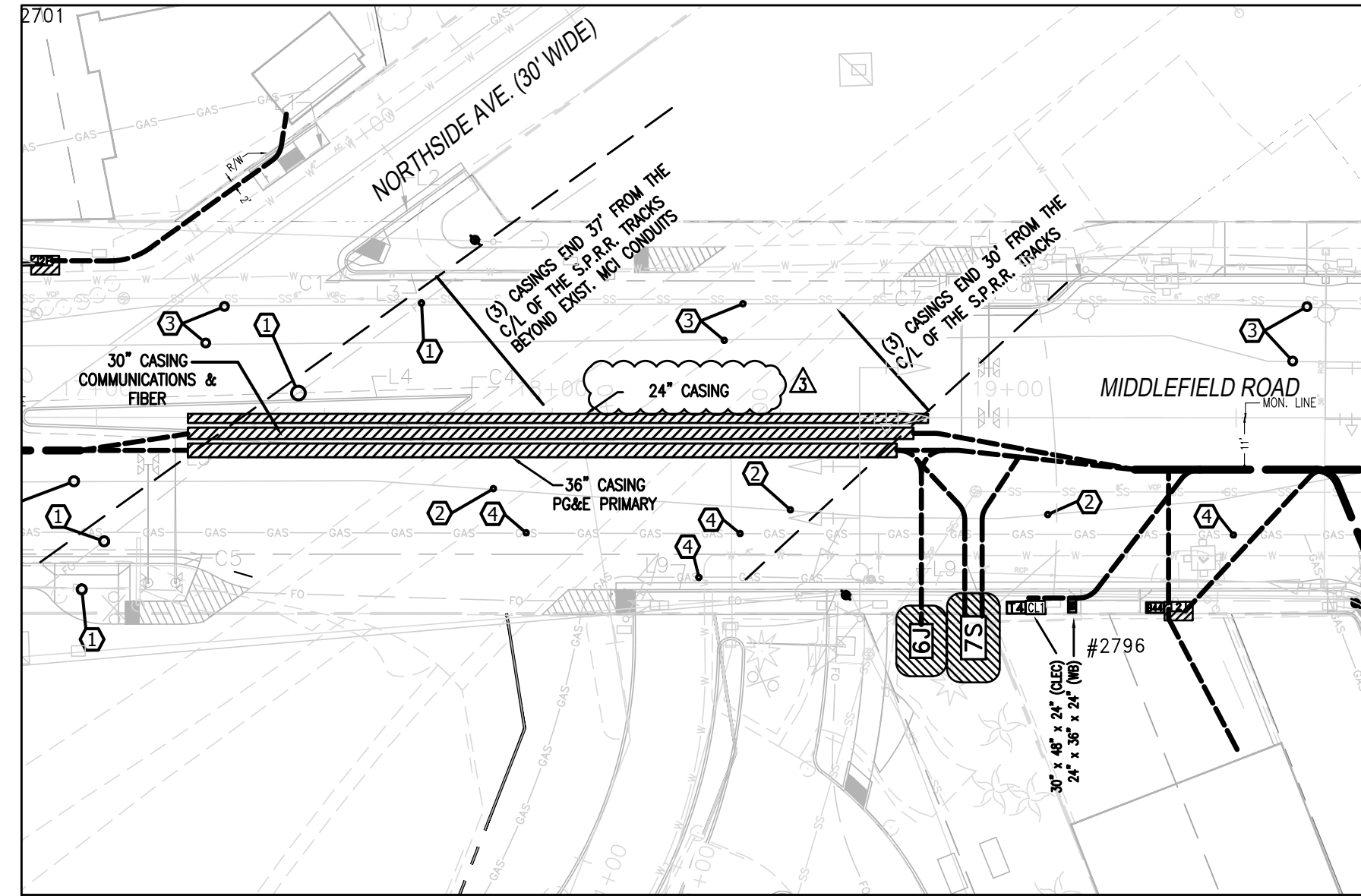
INTERIM GUIDELINES FOR HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER UNION PACIFIC RAILROAD RIGHT-OF-WAY

Preface: The American Railway Engineering and Maintenance-of-Way Association (AREMA) has assigned a working committee to develop a recommended railroad industry practice for horizontal directional drilling (HDD) under railroad rights-of-way. These interim guidelines are issued by the Union Pacific Railroad (UPRR) pending completion of the AREMA recommended practice, at which time UPRR will review and determine whether to adopt it.

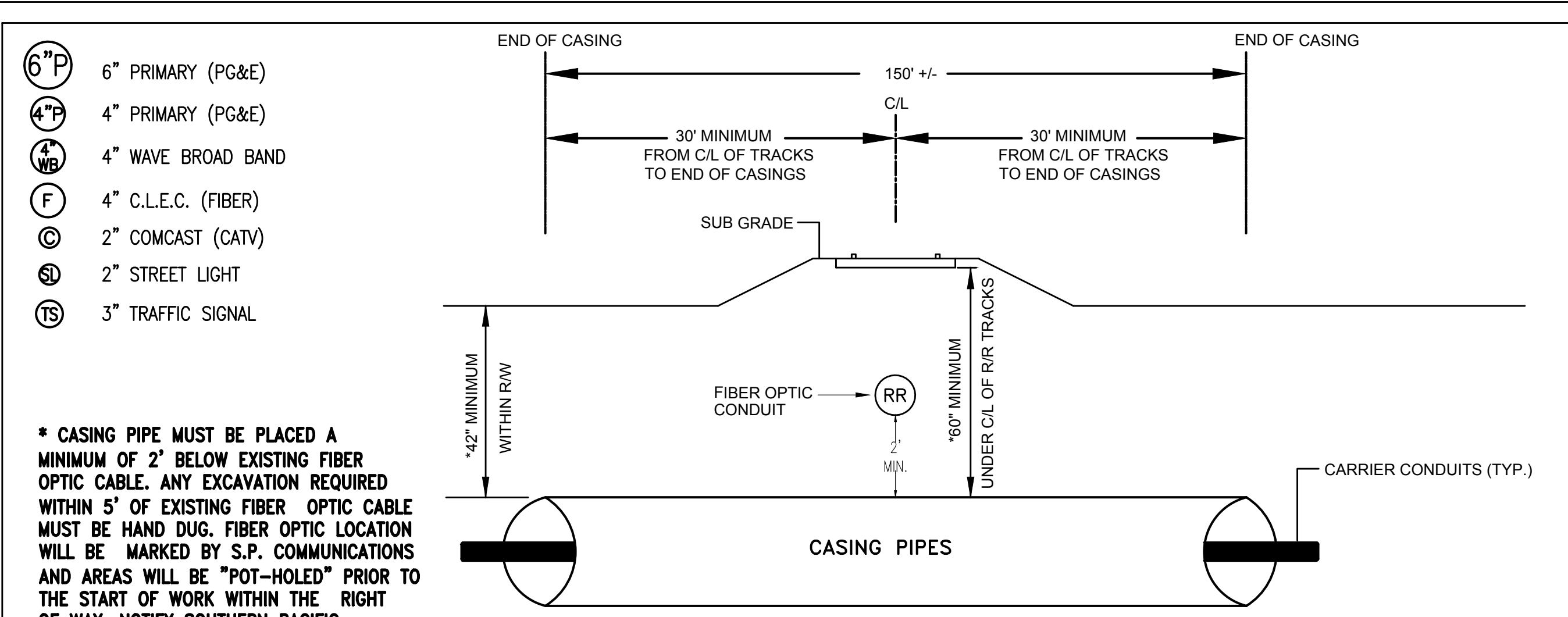
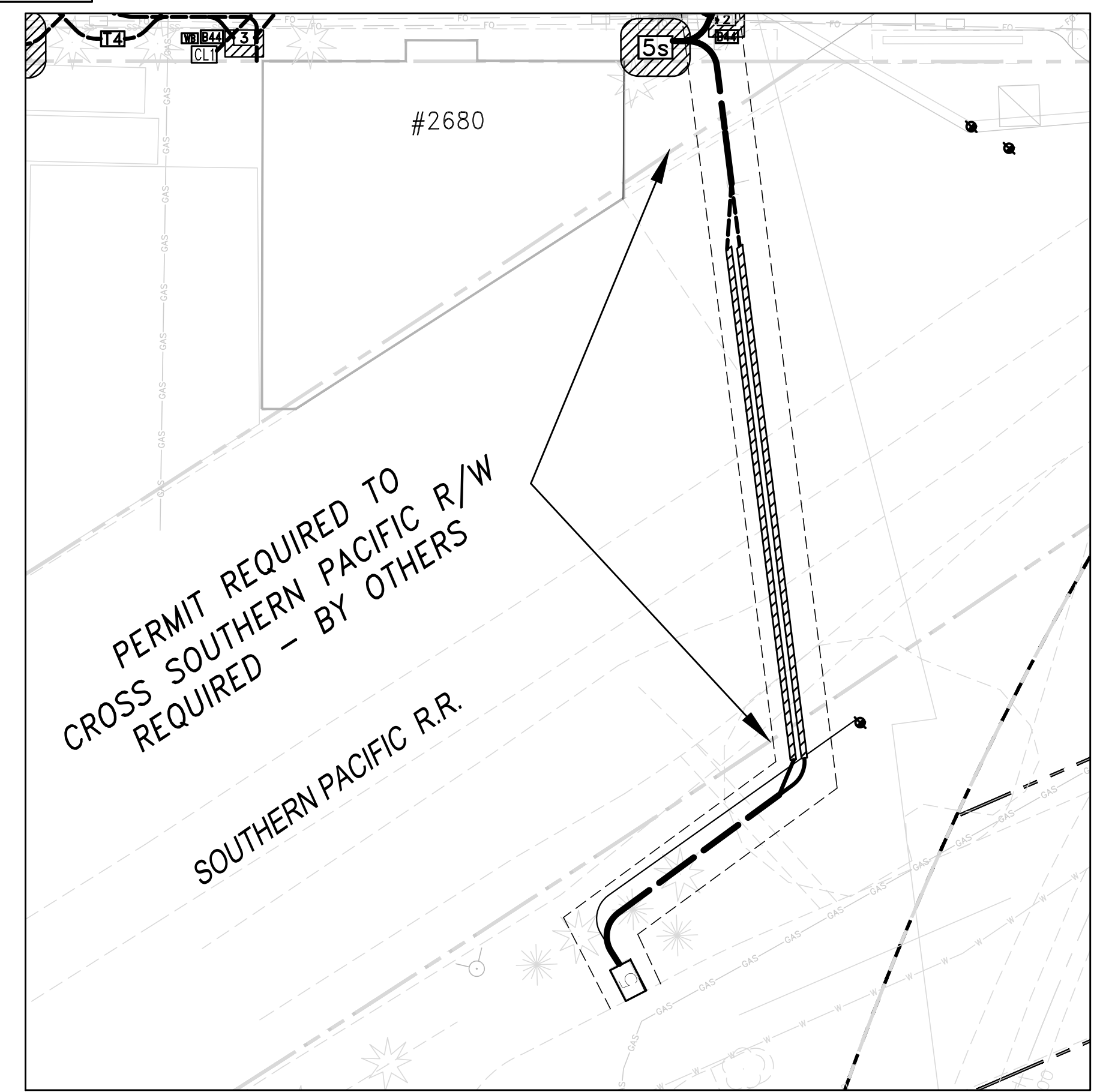
Scope: All pipelines proposed for installation under UPRR right-of-way and trackage using HDD. Fiber optics installation under the jurisdiction of the UPRR Information Technologies (IT) Department with 10 inch or smaller diameter casing pipe shall follow the guidelines outlined in the current version of the "Fiber Optic Engineering, Construction and Maintenance" Standard Manual.

- 1. For all liquid or gas pipelines, only steel pipe may be installed under tracks or UPRR right-of-way utilizing HDD. The pipe may be used as a carrier pipe or a casing pipe. Plastic carrier pipe, if used, must be installed in a steel casing.
- 2. For fiber optics (not under the jurisdiction of UPRR IT Department) or electrical installations, plastic (PVC or HDPE) pipe may be used as a conduit.
- 3. For all liquid or gas installations or for nominal pipe sizes exceeding 6 in., minimum cover (measured from base of rail to top of pipe) shall be 25 ft, regardless of product. For fiber optics or electrical installations, with casing/conduit nominal size of 6 in. or less, minimum cover shall be 15 ft. Applicant submittal shall include actual planned depth of pipe under each railroad track.
- 4. Applicant must provide pipe specifications. Pipe must satisfy AREMA recommendations and all applicable government and industry regulations.
- 5. Applicant must provide qualifications of drilling contractor including specific instances of previous successful experience in drilling under sensitive surface facilities.
- 6. Prior to commencement of drilling:
 - A. The contractor must submit an Installation Plan that describes the anticipated rig capacity, the proposed equipment and the method for advancing the borehole through expected soil conditions, angles, depth and exact location of the exit ditch, the pilot hole diameter, the proposed reaming plan, including the number and diameter of pre-reams/back-reams and diameter of the final reamed borehole, and the contingency equipment and plans for dealing with soil conditions that a soil engineer could reasonably expect to be encountered at the proposed HDD installation site. The Installation Plan will also address the anticipated hours of operation during the HDD borehole drilling and installation process, the minimum number of personnel, and their responsibilities on-duty and on-site during all HDD drilling operations.
 - B. The contractor must provide a detailed Fracture Mitigation (frac-out) Plan including method of monitoring and capturing the return of drilling fluids with particular attention to prevention of inadvertent escape of drilling fluids where they could undermine the Railroad tracks.
 - C. Establish a Survey Grid Line and provide a program of monitoring and documenting the actual location of the borehole during drilling operations.
- 7. A railroad observer and an applicant inspector are required to monitor the ground, ballast, and track for movement during the drilling, reaming, and pullback processes. All work within the Railroad right-of-way must be coordinated with the Railroad flagger. The installation process and all train movement must be immediately stopped if movement is detected. The damaged area must be immediately reported to the Railroad and immediately repaired subject to Railroad review and approval. The installation process must be reviewed and modified as required before the installation may proceed. Applicant must pay Railroad's expenses for review, observation of installation, and flagging.
- 8. Upon completion of the HDD installation work, the contractor shall provide an accurate as-built drawing of the installed HDD segment. As-built drawings will include both horizontal and profile plans.

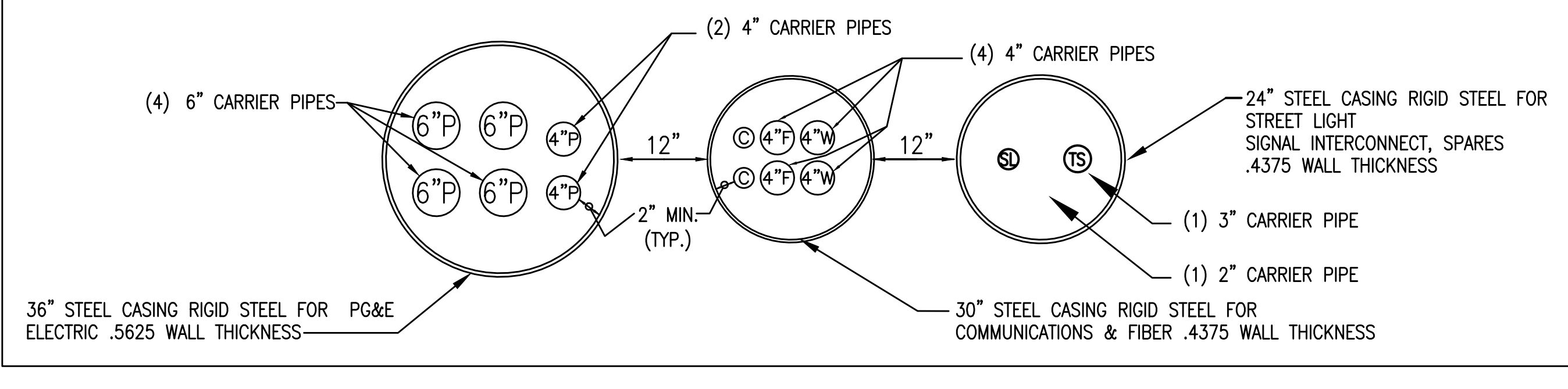
- ① PROTECT IN PLACE - EXISTING MCI/VERIZON CONDUITS DURING JOINT TRENCH CONSTRUCTION
- ② PROTECT IN PLACE - EXISTING CENTURY LINK CONDUITS DURING JOINT TRENCH CONSTRUCTION
- ③ PROTECT IN PLACE - EXISTING FIBER CONDUITS DURING JOINT TRENCH CONSTRUCTION
- ④ PROTECT IN PLACE - EXISTING PG&E GAS DURING JOINT TRENCH CONSTRUCTION
- ⑤ PROTECT IN PLACE - EXISTING PG&E ELECTRIC DURING JOINT TRENCH CONSTRUCTION



APPROVED: _____
DATE: 12/24/2020
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



* CASING PIPE MUST BE PLACED A MINIMUM OF 2' BELOW EXISTING FIBER OPTIC CABLE. ANY EXCAVATION REQUIRED WITHIN 5' OF EXISTING FIBER OPTIC CABLE MUST BE HAND DUG. FIBER OPTIC LOCATION WILL BE MARKED BY S.P. COMMUNICATIONS AND AREAS WILL BE "POT-HOLED" PRIOR TO THE START OF WORK WITHIN THE RIGHT OF WAY. NOTIFY SOUTHERN PACIFIC COMMUNICATIONS PRIOR TO INSTALLING CASING BORE 1-510-755-5515



EXISTING LEGEND

| | |
|---------|-----------------------------|
| — GAS — | EXIST. PG&E GAS |
| — E — | EXIST. PG&E ELECTRIC |
| — TEL — | EXIST. AT&T |
| — MCI — | EXIST. (MCI) VERIZON |
| — FO — | EXIST. L3 FIBER OPTIC |
| — OH — | EXISTING OVERHEAD |
| — SS — | EXISTING SANITARY SEWER |
| — SD — | EXISTING STORM DRAIN |
| — W — | EXISTING WATER |
| ● | EXISTING POLE TO REMAIN |
| ○ | EXISTING POLE TO BE REMOVED |
| ⊙ | EXISTING S.S. MANHOLE |
| Ⓣ | EXISTING TELEPHONE MANHOLE |

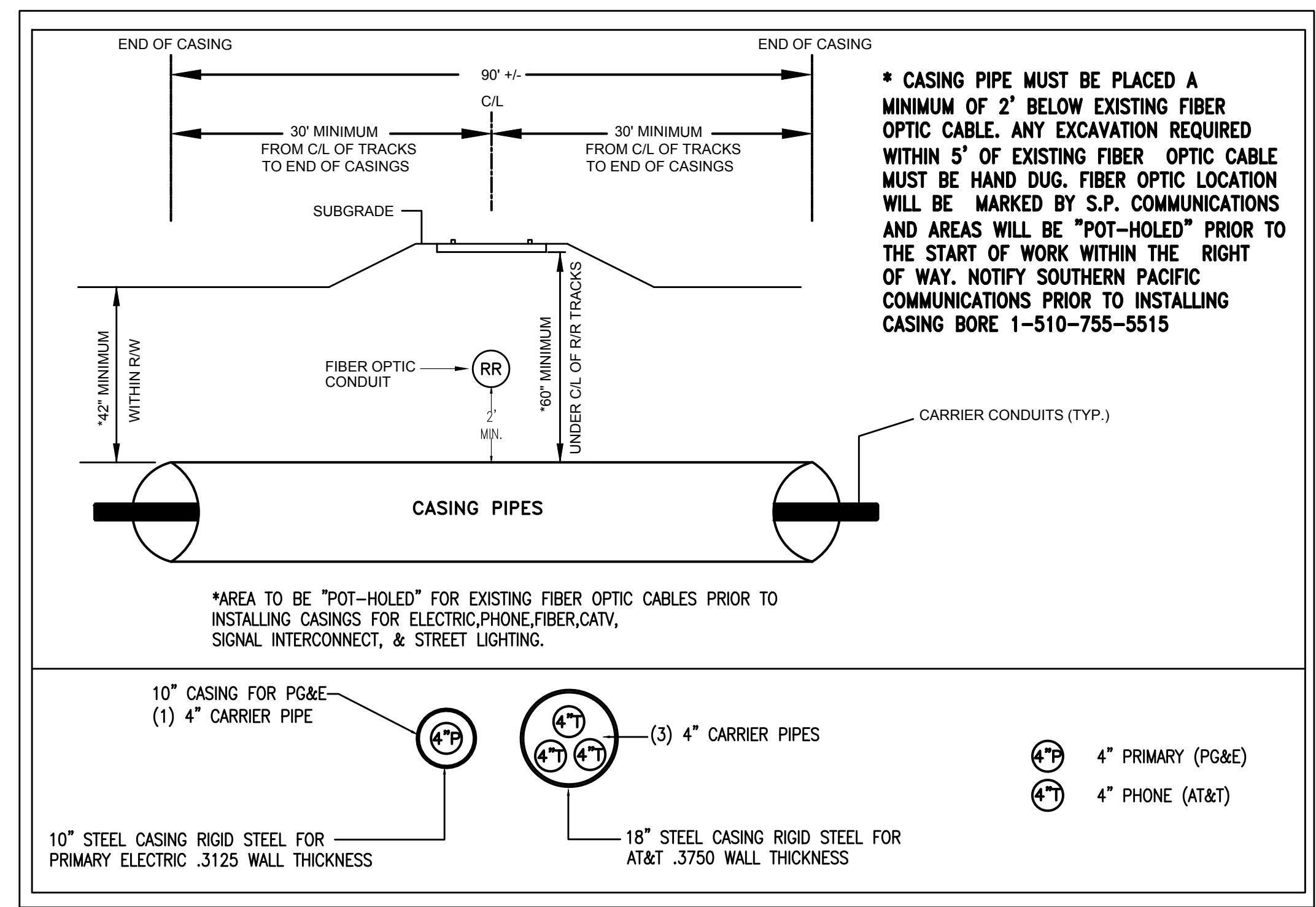
SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES NOTE 9 THIS SHEET REGARDING EXISTING CONDITIONS.

RECORD DRAWING
THIS DRAWING INDICATES IMPROVEMENTS AS DESIGNED AND REVISED BY RGA DESIGN TOGETHER WITH FIELD CHANGES REPORTED TO HAVE OCCURRED DURING CONSTRUCTION IN ACCORDANCE WITH RECORDS AND REPRESENTATIONS OF INSPECTORS AND CONTRACTORS.
BY: _____ DATE: _____

Vizion Utility PARTNERS
UTILITY ENGINEERS, CONSULTANTS & STREETLIGHT DESIGN
7901 STONERIDGE DR, SUITE 200 PLEASANTON, CA 94588
Tel (925) 662-1114

SHEET INDEX

| | |
|-------|------------------------|
| JT-1 | TITLE SHEET |
| JT-2 | NOTES & DETAILS |
| JT-3 | JOINT TRENCH COMPOSITE |
| JT-4 | JOINT TRENCH COMPOSITE |
| JT-5 | JOINT TRENCH COMPOSITE |
| JT-6 | JOINT TRENCH COMPOSITE |
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| JT-9 | TRENCH SECTIONS |
| JT-10 | TRENCH SECTIONS |
| JT-11 | TRENCH SECTIONS |
| JT-12 | RAILROAD JT XING |



| | | | | |
|---|------------|---|------------------------------|--|
| DESIGNED BY: M.W. | | MIDDLEFIELD ROAD | | SCALE: N.T.S. |
| CHECKED BY: D.V. | | UNDERGROUND UTILITY DISTRICT (PHASE II) | | DATE: 12-23-2020 |
| DRAWN BY: M.W. | | RAIL ROAD JOINT TRENCH CROSSINGS | | FILE NO.: 15-646 |
| ISSUE FOR BID | 10-19-2020 | JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, 5th FLOOR | |
| REVISION | DATE | SAN MATEO COUNTY | | REDWOOD CITY, CALIFORNIA 94063 |
| FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES | | 0 1 2 3 4 | | VIZION DATE LAST WORKED ON: 10-19-2020 |
| PROJECT MANAGER: T. NGUYEN | | RR-1 (REV) | | SHEET 128 OF 140 |

FILENAME: J:\VIZION\PROJECTS\2015\15-646 MIDDLEFIELD ROAD, REDWOOD CITY\CA WORK\PS 15-646 JT XING\DWG (JT-12)