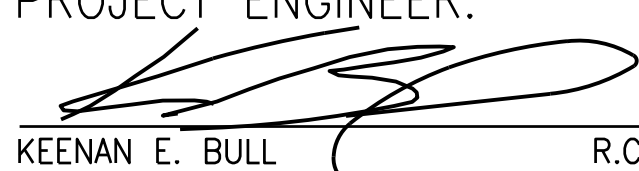


# CRESCENTA VALLEY WATER DISTRICT



## Construction Plans for ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE Project No. D-21-G2 MARCH 2022

PREPARED BY:  
MICHAEL K. NUNLEY & ASSOCIATES, INC.

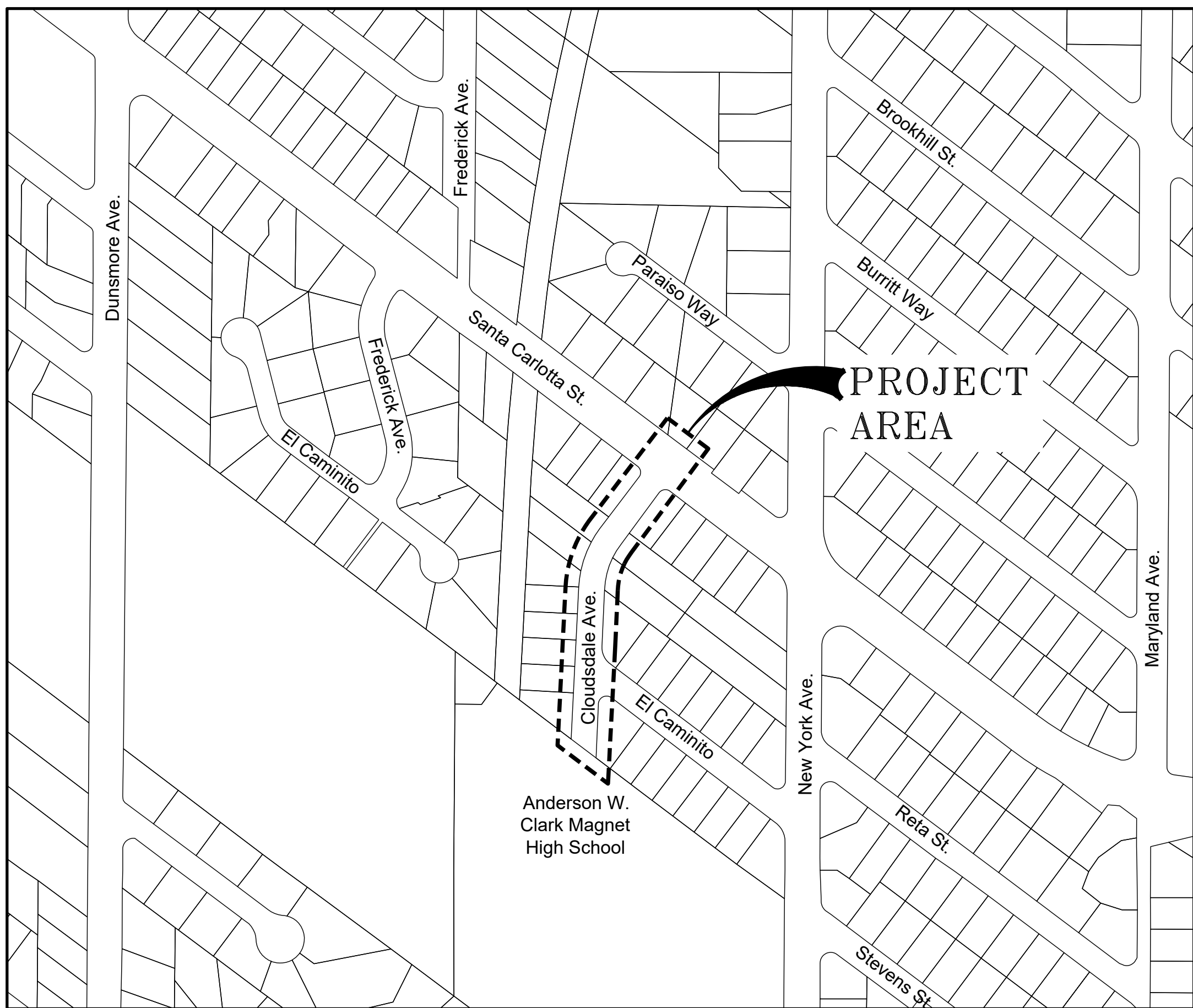
PROJECT ENGINEER:  
  
KEENAN E. BULL R.C.E. C91138 MARCH 9, 2022 DATE

REVIEWED BY:  
CRESCENTA VALLEY WATER DISTRICT

ENGINEERING MANAGER:  
  
BROOK YARED R.C.E. 77888 DATE



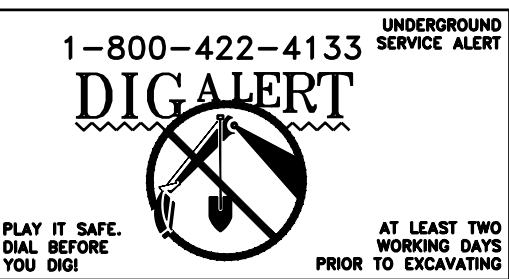
VICINITY MAP  
NOT TO SCALE



LOCATION MAP  
NOT TO SCALE

| SITE DESCRIPTION                                                                                                                                      |  | CONTACT INFORMATION     |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| THE PROJECT IS LOCATED IN CLOUDSDALE AVE. FROM SANTA CARLOTTA ST. TO ANDERSON CLARK HIGH SCHOOL PARKING LOT ENTRANCE                                  |  | OWNER:                  | CRESCENTA VALLEY WATER DISTRICT<br>2700 FOOTHILL BLVD.<br>LA CRESCENTA, CA 91214<br>(818) 248-3925                                            |
|                                                                                                                                                       |  | OWNER'S REPRESENTATIVE: | BROOK YARED, MS, PE ENGINEERING MANAGER<br>CRESCENTA VALLEY WATER DISTRICT<br>2700 FOOTHILL BLVD.<br>LA CRESCENTA, CA 91214<br>(818) 236-4117 |
| SCOPE OF WORK                                                                                                                                         |  | ENGINEER OF RECORD:     | KEENAN BULL, PE<br>16310 BAKE PARKWAY<br>IRVINE, CA 92618<br>(805) 574-4154                                                                   |
| WORK INCLUDES INSTALLATION OF NEW 8-INCH WATER LINE IN CLOUDSDALE AVE. FROM SANTA CARLOTTA STREET TO ANDERSON CLARK HIGH SCHOOL PARKING LOT ENTRANCE. |  |                         |                                                                                                                                               |

| SHEET INDEX |                                                          |
|-------------|----------------------------------------------------------|
| SHEET No.   | SHEET TITLE                                              |
| 1           | TITLE SHEET, LOCATION MAP, VICINITY MAP. AND SHEET INDEX |
| 2           | LEGEND, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES        |
| 3           | PLAN AND PROFILE - STA. 1+00 TO STA. 4+25                |
| 4           | PLAN AND PROFILE - STA. 4+25 TO STA. 7+20.26             |
| 5           | STANDARD DETAILS                                         |
| 6           | DETAILS                                                  |
| 7           | DETAILS                                                  |



DISCLAIMER  
APPROVAL BY C.V.W.D. DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF DESIGN OR THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, STRUCTURES, AND CONDITIONS WITHIN THE LIMITS OF THE PROJECT.

|              |     |      |
|--------------|-----|------|
| SCALE:       | N/A | DATE |
| DRAWN BY:    | JPF |      |
| CHECKED BY:  | KEB |      |
| APPROVED BY: | JTN |      |
| AS BUILT BY: |     |      |

CRESCENTA VALLEY WATER DISTRICT  
ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE  
TITLE SHEET, LOCATION MAP, VICINITY MAP.  
AND SHEET INDEX

|                   |                            |            |
|-------------------|----------------------------|------------|
| SHT. 1 OF 7 SHTS. | COMPLETION DATE: MAR. 2022 | LINEAR FT: |
| JOB NO. D-21-G2   | DWG NO. G-001              |            |

CITY OF GLENDALE PERMIT No.: CV-20-21



DWG: \\MKN-A-D\Projects\Crescenta Valley\WD-2021-001 Pressure Reducing Stations D-21-G2\300 Engineering\301 CAD\Plansets\SHEET 2.dwg USER: jfoelicher  
DATE: Mar 09, 2022 8:03am XREFS: G-BD IMAGES: C:\WD-Logo-smalling.png G:\MKN.png

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY C.V.W.D. PROJECT ENGINEER FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
2. THE DISTRICT WILL EXECUTE ALL SHUT-DOWNS AND TURN-ONS. THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH AT LEAST FIVE (5) WORKING DAYS NOTICE. WATER TIGHT SHUT-DOWNS ARE NOT ASSURED BY THE DISTRICT; THEREFORE, THE CONTRACTOR SHALL BE PREPARED FOR VALVE LEAKAGE THAT MAY OCCUR DURING SYSTEM SHUT-DOWN.
3. ALL WORK SHALL CONFORM TO C.V.W.D. STANDARD SPECIFICATIONS AND STANDARD DRAWINGS.
4. ALL WATER SYSTEM INSTALLATIONS SHALL BE INSPECTED BY C.V.W.D.
5. PIPE SHALL HAVE A MINIMUM OF 36 INCHES OF COVER AND A MAXIMUM OF 42 INCHES OF COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
6. ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWWA C206.
7. BACKFILL PROCEDURE SHALL BE COVERING THE PIPELINE WITH APPROVED BEDDING MATERIAL., HAND PLACED DEPTH OF 12 INCHES OR MORE ABOVE THE TOP OF THE PIPE. THE BALANCE OF BACKFILL SHALL CONTAIN NO STONES MORE THAN 2 INCHES IN THEIR LARGEST DIMENSION.
8. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL PIPES UPON COMPLETION. THE REQUIRED TEST SHALL BE IN ACCORDANCE WITH C.V.W.D. TECHNICAL PROVISIONS.
9. FLUSHING AND DISINFECTION: UPON COMPLETION OF THE HYDROSTATIC TESTS, THE PIPES SHALL BE FLUSHED AND DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE WITH THE STANDARD FOR DISINFECTING WATER MAINS, (AWWA C601) AND SHALL BE SCHEDULED WITH C.V.W.D.
10. ALL FITTINGS AND VALVES SHALL BE PER C.V.W.D. SPECIFICATIONS.
11. ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE SCHEDULED WITH C.V.W.D. NO CONNECTIONS TO C.V.W.D. SYSTEM UNTIL PIPE HAS SUCCESSFULLY PASSED THE HYDROSTATIC AND DISINFECTION TEST.
12. ALL VALVE CANS SHALL BE RAISED TO FINISHED GRADE DURING FINAL PAVING.
13. BY APPROVING THIS PLAN, THE WATER PURVEYOR IS NEITHER GUARANTEEING NOR AGREEING THAT IT WILL SUPPLY WATER AT ANY SPECIFIC QUANTITIES OR PRESSURE, AND NO SUCH OBLIGATION IS CREATED HEREBY.
14. CONTRACTOR TO NOTE THAT THE EXACT LOCATION AND DEPTH OF EXISTING FACILITIES MAY VARY AND SHOULD BE VERIFIED BY EXPLORATORY EXCAVATION AT THE TIME OF CONSTRUCTION. CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT PH. 1-800-227-2600, AT LEAST TWO (2) WORKING DAYS PRIOR TO DIGGING.
15. TRAFFIC CONTROL DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL TRAFFIC AUTHORITY.
16. ALL UNLINED FITTINGS AND SPECIALS SHALL BE FIELD MORTAR LINED (MIN. 5/16" THICK).
17. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF BACTERIOLOGICAL SAMPLES. A RISER WITH SAMPLING TAP OR OTHER C.V.W.D.-APPROVED INSTALLATION SHALL BE REQUIRED.
18. ALL OFFSET DISTANCES ARE APPROXIMATE, CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF THIS PROJECT IN ACCORDANCE WITH C.V.W.D., CITY OF GLENDALE & COUNTY OF LOS ANGELES PLANS & SPECIFICATIONS. ANY DEVIATION FROM THESE PLANS & SPECIFICATIONS SHALL BE AUTHORIZED PRIOR TO CONSTRUCTION BY C.V.W.D. PROJECT ENGINEER. FAILURE TO OBTAIN PRIOR APPROVAL MAY RESULT IN ADDITIONAL COSTS TO THE CONTRACTOR (SEE CONTRACT SPECIFICATIONS, GENERAL PROVISIONS ARTICLE 3 & 4).
20. ALL PIPE TO BE FURNISHED BY C.V.W.D. IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL PROVISIONS.
21. CEMENT MORTAR LINING AND COATING OF FITTINGS SHALL BE REINFORCED WITH WELDED WIRE MESH AS SHOWN.
22. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR CONNECTION FITTINGS PRIOR TO FABRICATIONS.
23. ALL EXPOSED STEEL PIPE SHALL BE CEMENT MORTAR LINED OR COATED.

SURVEY NOTES

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 5, NAD 83 EPOCH 2017.50 AS DERIVED FROM GEODETIC VALUES PUBLISHED BY CALIFORNIA SPATIAL REFERENCE CENTER.

BENCHMARK

CITY OF GLENDALE BENCHMARK BM654

ROUND HEAD NAIL IN LEAD W'LY CURB CLOUDSDALE AVE 2.0 FT S'LY BCR S-W CORNER

ELEV = 1910.79 NGVD 1929

ELEV = 1913.90 NAVD 1988 VERT CON ADJUSTMENT

PROPERTY LINES

THE PROPERTY LINES SHOWN HEREON WERE COMPILED FROM RECORD INFORMATION (I.E. RECORDED MAPS OR DEEDS) AND ARE NOT INTENDED TO REPRESENT THE TRUE OR ACTUAL BOUNDARY LINES OF THE SUBJECT PROPERTY, THEIR LOCATION IS TO BE USED FOR REFERENCE PURPOSES ONLY.

ABBREVIATIONS

|          |                                                              |
|----------|--------------------------------------------------------------|
| ABAND    | ABANDON                                                      |
| AC       | ASPHALT CONCRETE OR ASBESTOS-CEMENT                          |
| AGG      | AGGREGATE                                                    |
| APPROX   | APPROXIMATE                                                  |
| ASTM     | ASTM INTERNATIONAL                                           |
| AWWA     | AMERICAN WATER WORKS ASSOCIATION                             |
| BO       | BOTTOM OF                                                    |
| BC       | CURVE BEGINNING                                              |
| C. OF G. | CITY OF GLENDALE                                             |
| CALOSHA  | THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH AT CALIFORNIA |
| CB       | CATCH BASIN                                                  |
| CIP      | CAST IRON PIPE                                               |
| CLR      | CLEARANCE                                                    |
| CL&W     | CEMENT MORTAR LINED & WRAPPED                                |
| CML&CMC  | CEMENT MORTAR LINED & COATED                                 |
| CONC     | CONCRETE                                                     |
| CTR.     | CENTER                                                       |
| € OR CL. | CENTERLINE                                                   |
| C.V.W.D. | CRESCENTA VALLEY WATER DISTRICT                              |
| DEFL     | DEFLECTION                                                   |
| DIA OR Ø | DIAMETER                                                     |
| E:       | EASTING                                                      |
| E        | EXISTING                                                     |
| EB       | ELECTRICAL BOX                                               |
| EC       | CURVE END                                                    |
| EEM      | ELECTRICAL MANHOLE                                           |
| EL       | ELEVATION                                                    |
| EM       | ELECTRICAL METER                                             |
| EP       | EDGE OF PAVEMENT                                             |
| EG       | EXISTING GRADE                                               |
| F.E.     | FLANGED END                                                  |
| F.E.G.V. | FLANGED-END GATE VALVE                                       |
| FG       | FINISHED GRADE                                               |
| FH       | FIRE HYDRANT                                                 |
| FL       | FLOW LINE OR FLANGE                                          |
| FS       | FINISHED SURFACE                                             |
| GB       | GRADE BREAK                                                  |
| GM       | GAS METER                                                    |
| G.V.     | GATE VALVE                                                   |

|              |                                               |
|--------------|-----------------------------------------------|
| HORIZ        | HORIZONTAL                                    |
| INV          | INVERT                                        |
| L.A.C.D.P.W. | LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS |
| LT           | LEFT                                          |
| MC           | MORTAR COATED                                 |
| MAX          | MAXIMUM                                       |
| MIN          | MINIMUM                                       |
| MJ           | MECHANICAL JOINT                              |
| ML           | MORTAR LINED                                  |
| N            | NEW                                           |
| N            | NORTH                                         |
| N:           | NORTHING                                      |
| OHW          | OVERHEAD WIRE                                 |
| OC           | ON CENTER                                     |
| OD           | OUTSIDE DIAMETER                              |
| PC           | TANGENT-CURVE INTERSECTION                    |
| PCC          | COMPOUND CURVE-CURVE INTERSECTION             |
| PS           | PARKING STRIPE                                |
| PT           | CURVE-TANGENT INTERSECTION                    |
| PVC          | POLYVINYL CHLORIDE                            |
| RCP          | REINFORCE CONCRETE PIPE                       |
| RG           | ROUGH GRADE                                   |
| R.S.         | RESILIENT SEATED                              |
| RT           | RIGHT                                         |
| R/W          | RIGHT-OF-WAY                                  |
| S.C. GAS     | SOUTHERN CALIFORNIA GAS COMPANY               |
| SCH          | SCHEDULE                                      |
| SDM          | STORM DRAIN MANHOLE                           |
| SS           | STAINLESS STEEL                               |
| SSCO         | SANITARY SEWER CLEAN-OUT                      |
| SSMH         | SANITARY SEWER MANHOLE                        |
| STA          | STATION                                       |
| STD          | STANDARD                                      |
| TC           | TOP OF CURB                                   |
| TEM          | TELCO MANHOLE                                 |
| THK          | THICK                                         |
| TO           | TOP OF                                        |
| TTF          | TRIM TO FIT                                   |
| TYP          | TYPICAL                                       |
| UNK          | UNKNOWN                                       |
| VLT          | VAULT                                         |
| WM           | WATER METER                                   |
| WV           | WATER VALVE                                   |

LEGEND

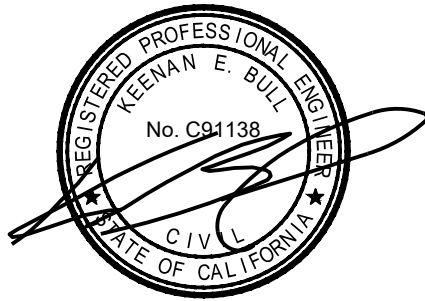
|  |                                  |
|--|----------------------------------|
|  | - BACK FLOW PREVENTER            |
|  | - BOLLARD                        |
|  | DI - DRAIN INLET                 |
|  | FDC - FIRE DEPARTMENT CONNECTION |
|  | FH - FIRE HYDRANT                |
|  | GUY - GUY-ANCHOR                 |
|  | HB - HOSE BIB                    |
|  | MB - MAILBOX                     |
|  | GM - GAS METER                   |
|  | WM - WATER METER                 |
|  | TMH - TELEPHONE MANHOLE          |
|  | FOMH - FIBER OPTIC MANHOLE       |
|  | SDMH - STORM DRAIN MANHOLE       |
|  | SMH - SEWER MANHOLE              |
|  | MH - MANHOLE                     |
|  | CATV - CABLE TV PULLBOX          |
|  | COMM- COMMUNICATION PULLBOX      |
|  | ELPB - ELECTRIC PULLBOX          |
|  | GAS - GAS PULLBOX                |
|  | SLPB - STREET LIGHT PULLBOX      |
|  | TSPB - TRAFFIC SIGNAL PULLBOX    |
|  | WPB - WATER PULLBOX              |
|  | - PILASTER                       |
|  | BO - BLOWOFF                     |

SYMBOLS

|  |            |                                                              |
|--|------------|--------------------------------------------------------------|
|  | PIV        | - POST INDICATOR VALVE                                       |
|  | GUY-P      | - GUY POLE                                                   |
|  |            | - POLE - LIGHT                                               |
|  |            | - POLE - TRAFFIC SIGNAL ARM                                  |
|  |            | - POLE - TRAFFIC SIGNAL                                      |
|  | UP         | - POLE - UTILITY                                             |
|  | ° RISER    | - UTILITY RISER                                              |
|  | ° SCO      | - SEWER CLEAN OUT                                            |
|  | SIGN       | - SIGN                                                       |
|  | SIGN       | - SIGN W/ DOUBLE POST                                        |
|  |            | - TREE                                                       |
|  | ×          | - UTILITY MARK                                               |
|  | ⊗ GV       | - GAS VALVE                                                  |
|  | ⊗ ICV      | - IRRIGATION CONTROL VALVE                                   |
|  | ⊗ V        | - VALVE (UNSPECIFIED)                                        |
|  | ⊗ WV       | - WATER VALVE                                                |
|  | ▲ CP1      | - CONTROL POINT                                              |
|  | ●          | - FOUND MONUMENT AS NOTED                                    |
|  | 2529.43 TC | - SPOT ELEVATION (GROUND SURVEY)                             |
|  | 2529.4     | - SPOT ELEVATION (GROUND SURVEY)                             |
|  | × 382.2    | - SPOT ELEVATION (AERIAL SURVEY)                             |
|  | H-XXXX     | - HOUSE NUMBER AND ADDRESS WITH NEW WATER SERVICE CONNECTION |

LINETYPES

|  |                                    |
|--|------------------------------------|
|  | - BOUNDARY LINE                    |
|  | - EASEMENT LINE                    |
|  | - RIGHT OF WAY LINE                |
|  | - FLOWLINE                         |
|  | - BUILDING OVERHANG                |
|  | - BUILDING FACE                    |
|  | - CONTOUR LINE                     |
|  | - CURB                             |
|  | - CENTERLINE                       |
|  | - EDGE OF PAVEMENT                 |
|  | - CHAINLINK/BARBWIRE FENCE         |
|  | - POST FENCE                       |
|  | - WOOD FENCE                       |
|  | - GUARD RAIL                       |
|  | - WALL                             |
|  | - CABLE TV                         |
|  | - ELECTRIC                         |
|  | - NATURAL GAS (SIZE)               |
|  | - SANITARY SEWER (SIZE & MATERIAL) |
|  | - STORM DRAIN (SIZE AND MATERIAL)  |
|  | - TELEPHONE                        |
|  | - WATER (SIZE AND MATERIAL)        |
|  | - ELECTRIC & CABLE TV              |
|  | - ELECTRIC, TELEPHONE, & CABLE TV  |
|  | -ABANDON IN PLACE                  |
|  | -REMOVE AND DISPOSE                |



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|              |     |      |  |
|--------------|-----|------|--|
| SCALE:       | N/A | DATE |  |
| DRAWN BY:    | JPF |      |  |
| CHECKED BY:  | KEB |      |  |
| APPROVED BY: | JTN |      |  |
| AS BUILT BY: |     |      |  |

|                                                        |
|--------------------------------------------------------|
| CRESCENTA VALLEY WATER DISTRICT                        |
| ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE |
| LEGEND, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES      |

|                                       |               |       |  |
|---------------------------------------|---------------|-------|--|
| CITY OF GLENDALE PERMIT No.: CV-20-21 |               |       |  |
| SHT. 2                                | OF 7          | SHTS. |  |
| COMPLETION DATE: MAR. 2022            | LINEAR FT:    |       |  |
| JOB NO. D-21-G2                       | DWG NO. G-002 |       |  |



DWG: \\MKN-DC\Projects\Crescenta Valley WD-2021-001 Pressure Reducing Stations D-21-G2\300 Engineering\301 CAD\Plans\Sheet\3 & 4.dwg USER: jrodlicher  
DATE: Mar 09, 2022 8:03am XREFS: C-SV C-SV\GUSD C-UP C-LP G-BD IMAGES: C:\WD\logp-small.png G:\M-MKN.png

1-800-422-4133



UNDERGROUND SERVICE ALERT

PLAY IT SAFE.  
CALL BEFORE  
YOU DIG!

AT LEAST TWO  
WORKING DAYS  
PRIOR TO EXCAVATING





16310 BAKE PARKWAY  
IRVINE, CA 92618  
(714) 213-9758

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CONDITIONS WITHIN THE LIMITS OF THE PROJECT.

|                  |           |
|------------------|-----------|
| SCALE: N/A       | DATE      |
| DRAWN BY: JPF    | FEB. 2022 |
| CHECKED BY: KEB  | FEB. 2022 |
| APPROVED BY: JTN | FEB. 2022 |
| AS BUILT BY:     |           |

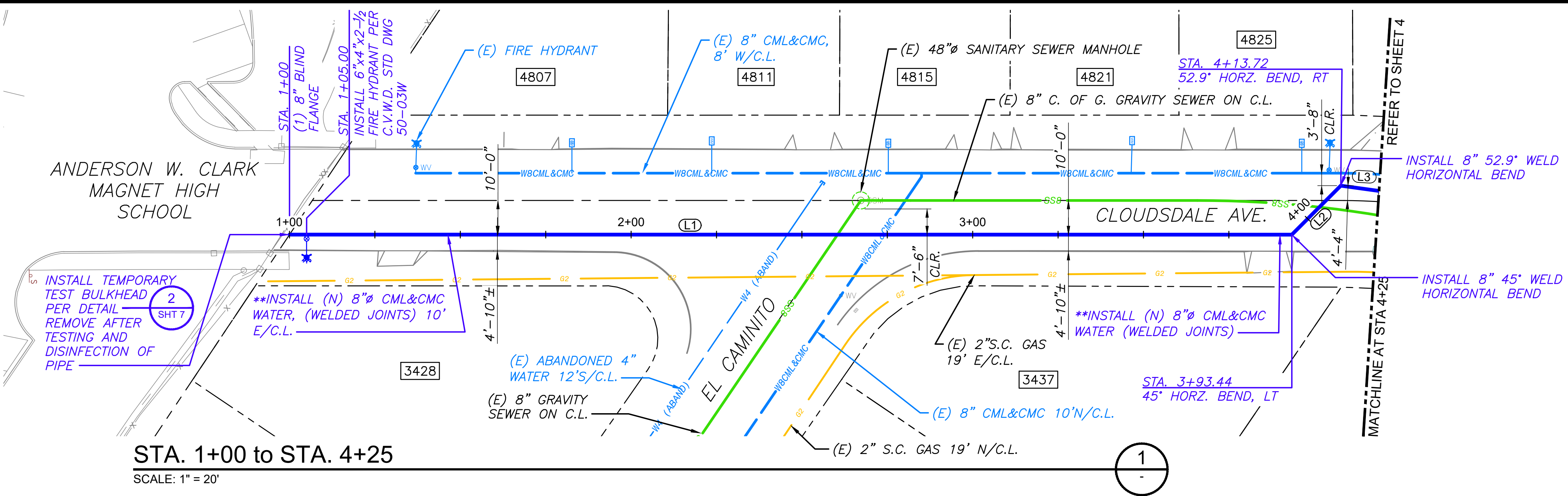
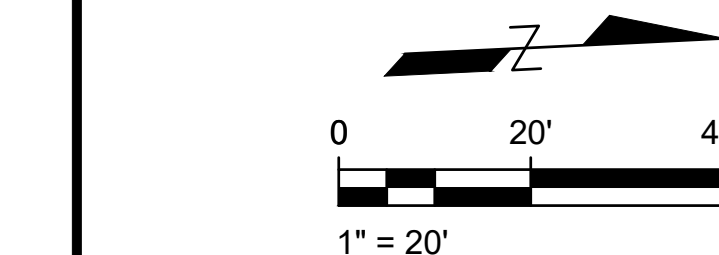
CRESCENTA VALLEY WATER DISTRICT 

ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE

PLAN AND PROFILE  
STA. 1+00 to STA. 4+25

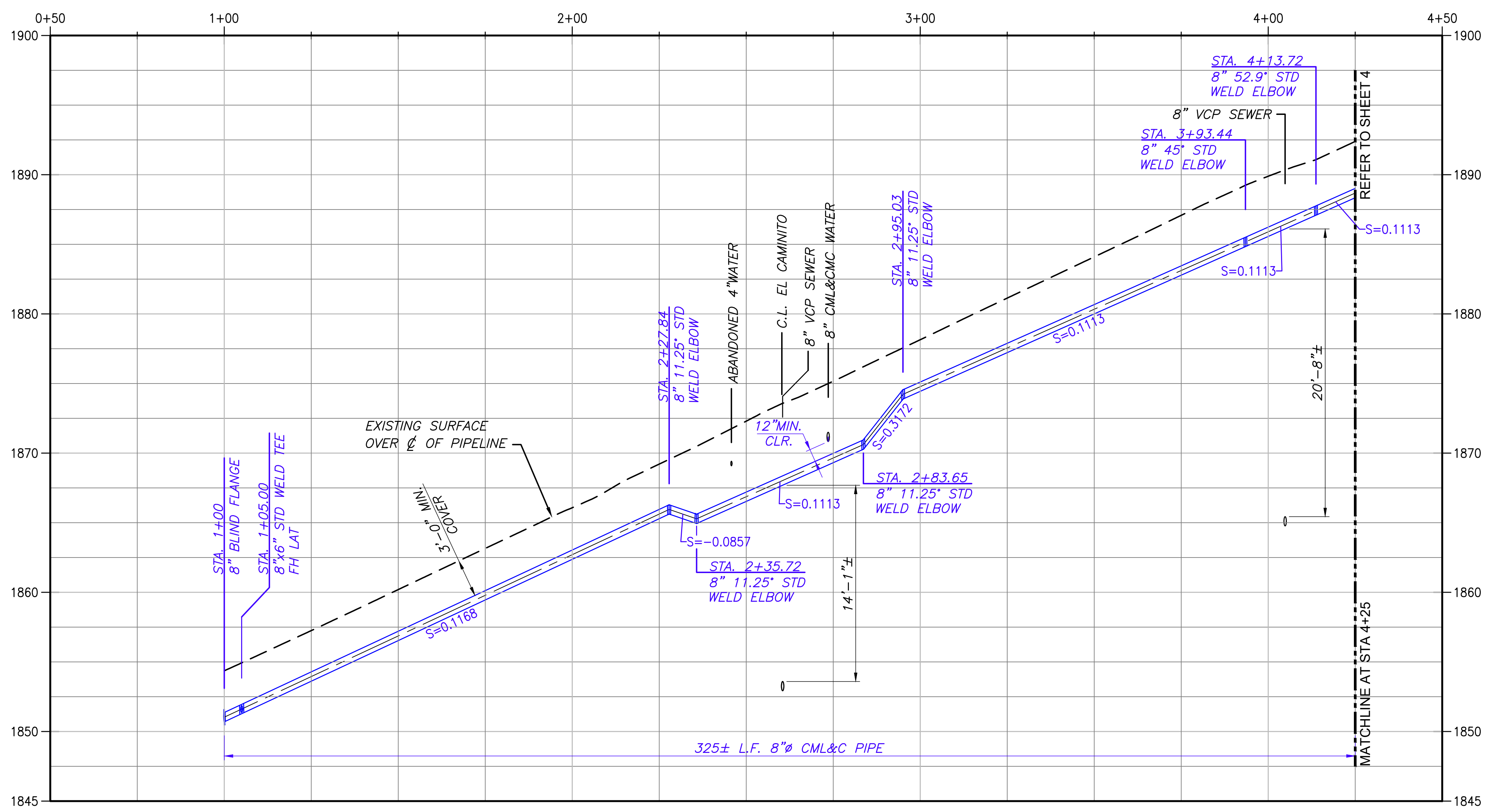
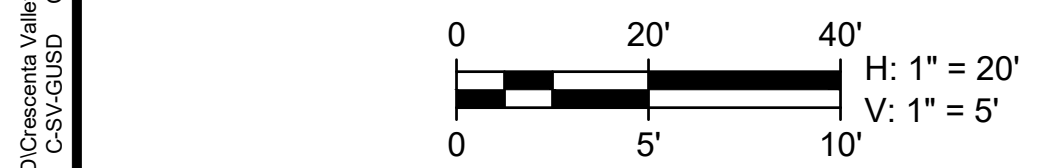
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| SHT. 3 OF 7 SHTS. | COMPLETION DATE: MAR. 2022 | LINEAR FT: |
| JOB NO. D-21-G2   | DWG NO. C-101              |            |

CITY OF GLENDALE PERMIT No.: CV-20-21



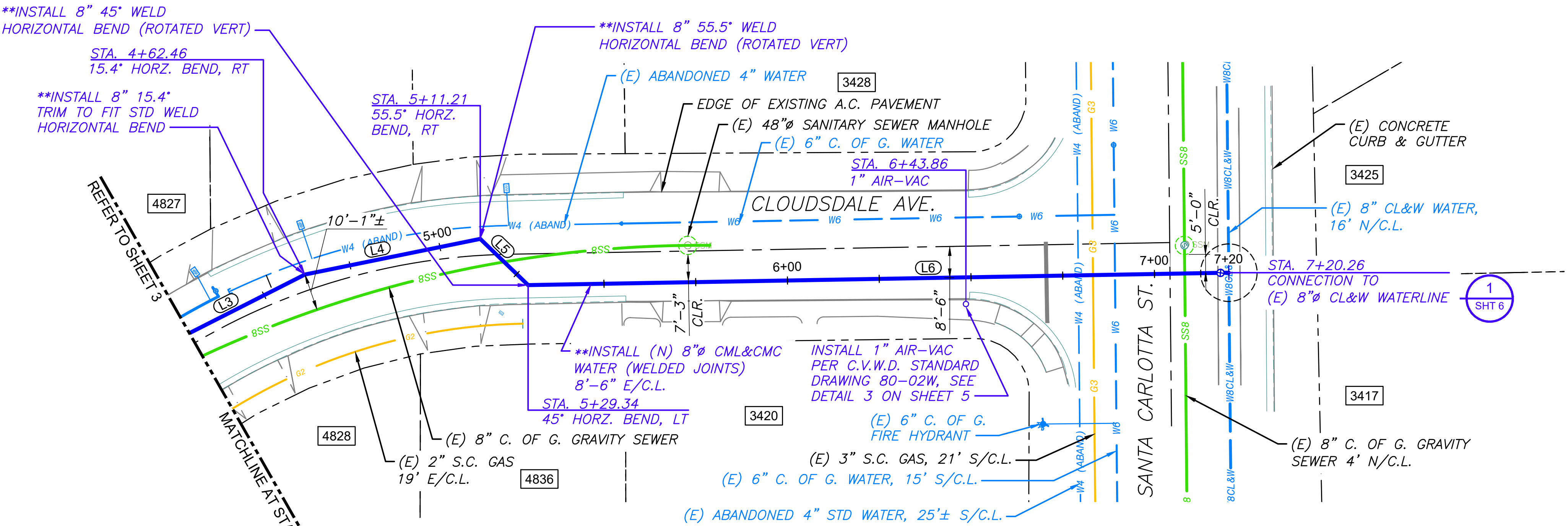
| LINE TABLE |        |                  |
|------------|--------|------------------|
| LINE #     | LENGTH | DIRECTION        |
| L1         | 293.44 | N2° 46' 34.48"E  |
| L2         | 20.28  | N42° 12' 50.40"W |
| L3         | 48.74  | N10° 35' 45.56"E |

- \* POTHOLE PRIOR TO CONSTRUCTION FOR DEPTH, LOCATION & CONDITION OF UNDERGROUND FACILITIES
- \*\* INSTALLATION OF 8"Ø CML&CMC WILL REQUIRE EACH JOINT TO BE FULLY WELDED PER L.A.C.D.P.W. STANDARD PLANS DWG. W-50 FOR ZONE "B" WATER MAIN CONSTRUCTION REQUIREMENTS.





| LINE TABLE |        |                  |
|------------|--------|------------------|
| LINE #     | LENGTH | DIRECTION        |
| L3         | 48.74  | N10° 35' 45.56"E |
| L4         | 48.74  | N26° 00' 50.90"E |
| L5         | 18.13  | N81° 30' 16.43"E |
| L6         | 190.92 | N36° 30' 16.42"E |

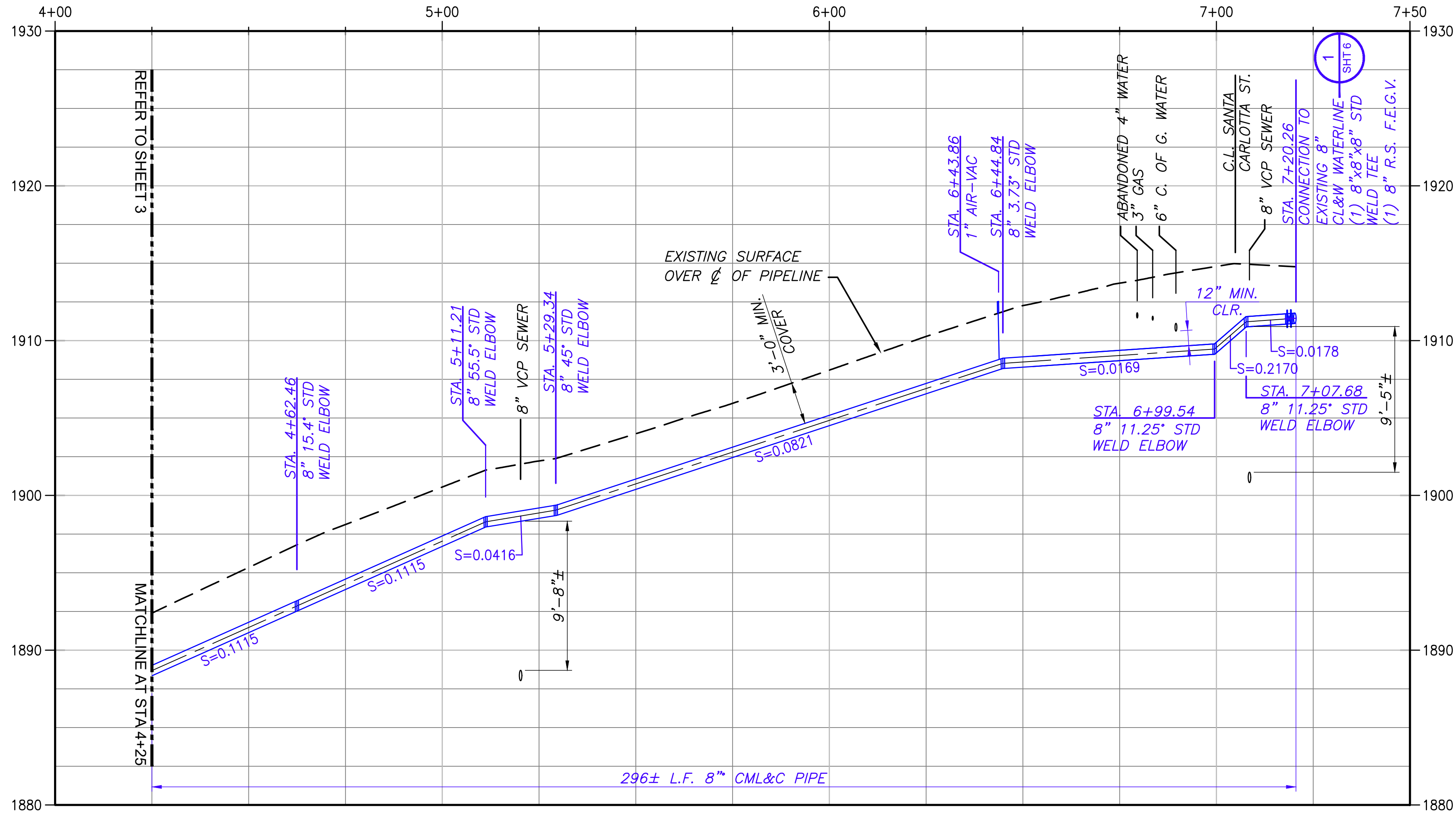


STA. 4+25 to STA. 7+20.26

SCALE: 1" = 20'

\* POTHOLE PRIOR TO CONSTRUCTION FOR DEPTH, LOCATION & CONDITION OF UNDERGROUND FACILITIES

\*\* INSTALLATION OF 8"Ø CML&C WILL REQUIRE EACH JOINT TO BE FULLY WELDED PER L.A.C.D.P.W. STANDARD PLANS DWG. W-50 FOR ZONE "B" WATER MAIN CONSTRUCTION REQUIREMENTS.



1-800-422-4133  
DIGALERT

PLAY IT SAFE.  
DIAL BEFORE  
YOU DIG!  
AT LEAST TWO  
WORKING DAYS  
PRIOR TO EXCAVATING



**mkn**  
16310 BAKE PARKWAY  
IRVINE, CA 92618  
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UNDERGROUND UTILITIES, STRUCTURES, AND  
CONDITIONS WITHIN THE LIMITS OF THE PROJECT.

| SCALE:       | AS SHOWN | DATE      |
|--------------|----------|-----------|
| DRAWN BY:    | JPF      | FEB. 2022 |
| CHECKED BY:  | KEB      | FEB. 2022 |
| APPROVED BY: | JTN      | FEB. 2022 |
| AS BUILT BY: |          |           |

CRESCENTA VALLEY WATER DISTRICT  
ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE  
PLAN AND PROFILE  
STA. 4+25 to STA. 7+20.26

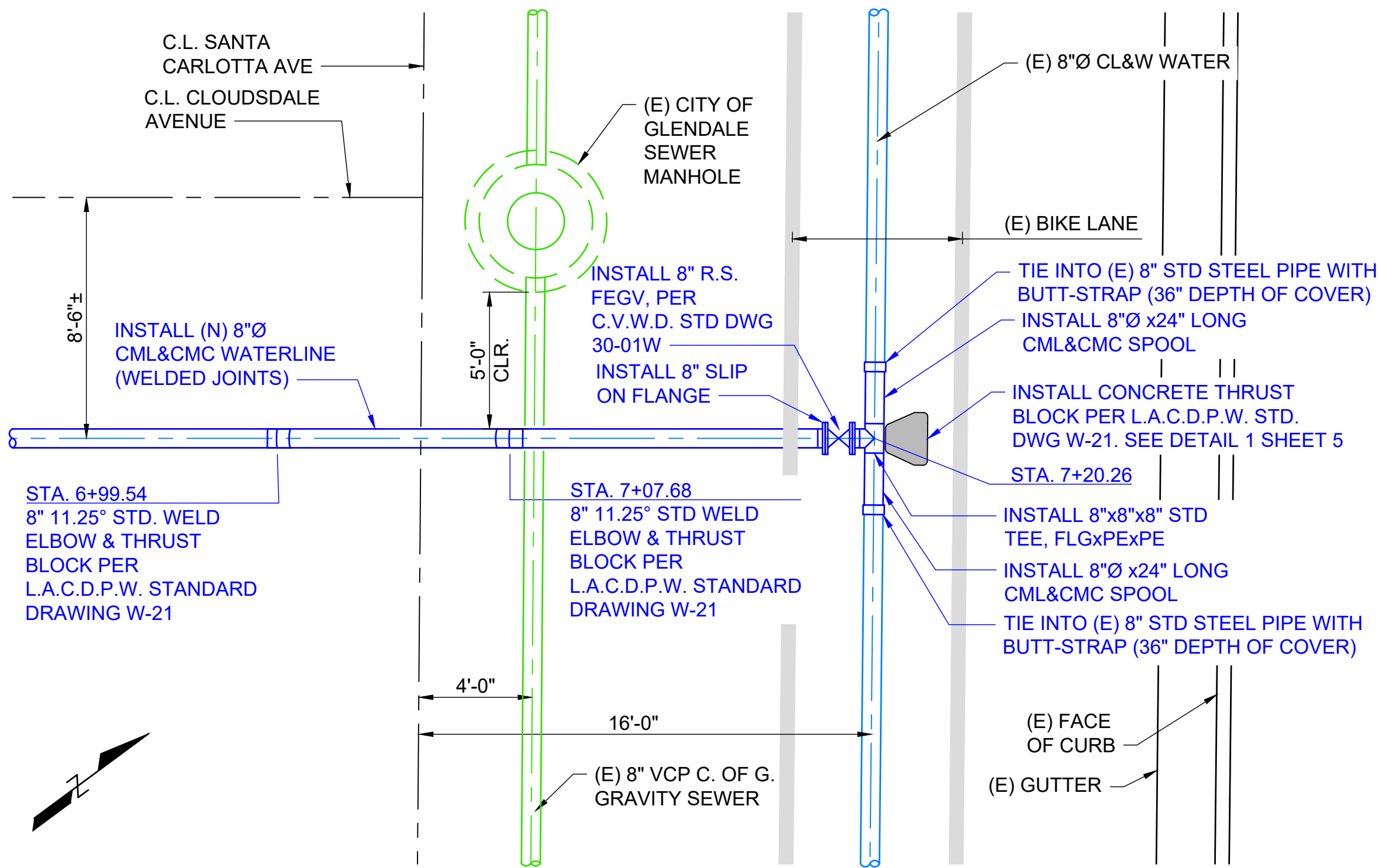
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|-------------------|----------------------------|------------|
| SHT. 4 OF 7 SHTS. | COMPLETION DATE: MAR. 2022 | LINEAR FT: |
| JOB NO. D-21-G2   | DWG NO. C-102              |            |

CITY OF GLENDALE PERMIT No.: CV-20-21





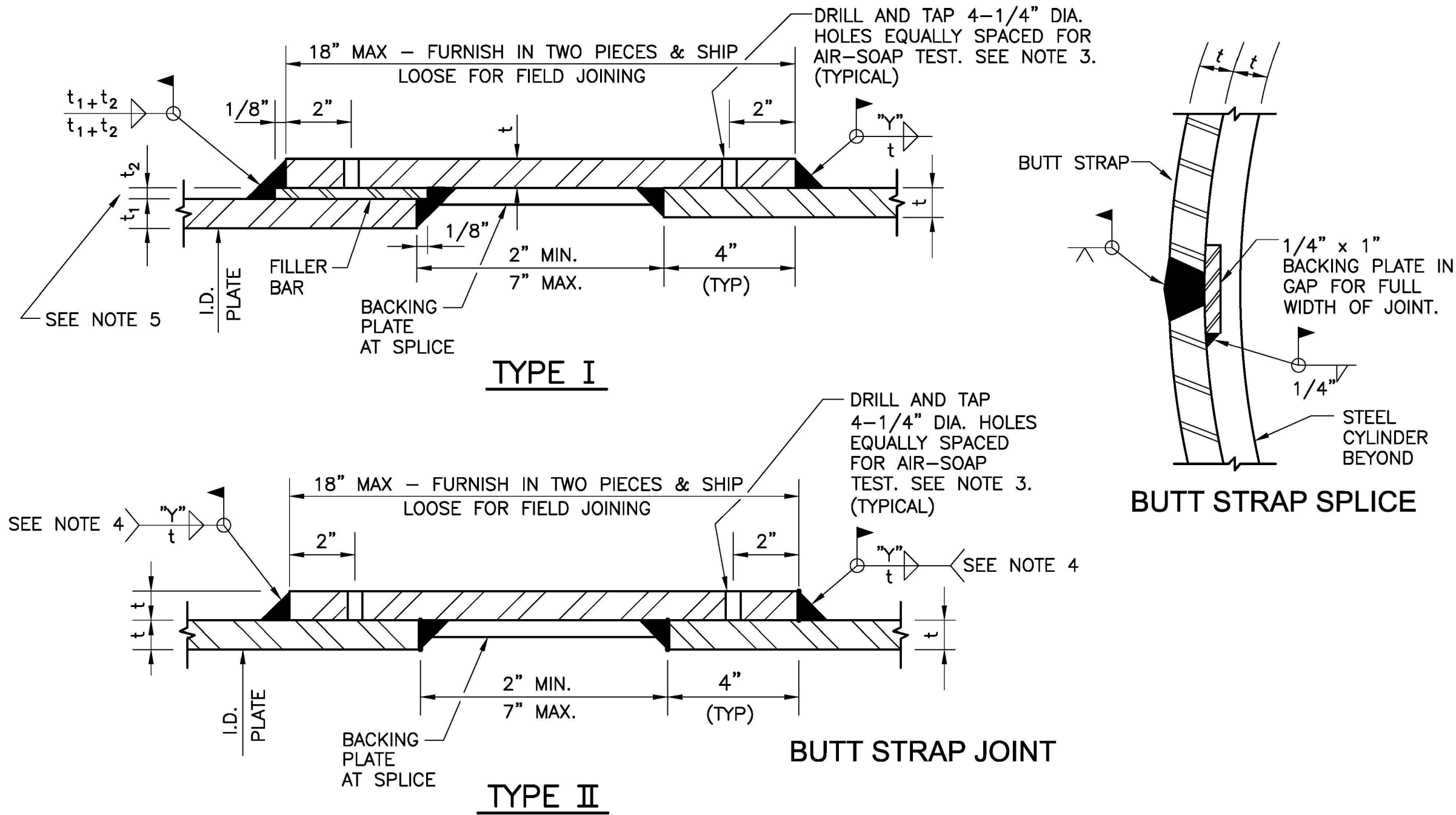




CONNECTION DETAIL - STA. 7+20.26

SCALE: 1" = 4'

1



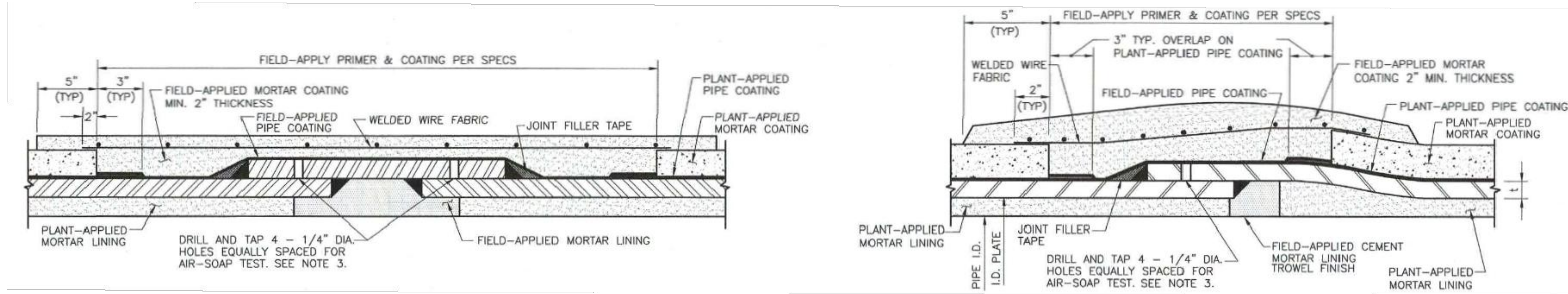
BUTT STRAP JOINT DETAIL

NOT TO SCALE

2

BUTT STRAP JOINT NOTES:

1. FOR INSIDE DIAMETER AND PLATE THICKNESS OF WELDED STEEL PIPE AND LOCATION OF DOUBLE-WELDED LAP JOINTS, SEE PLAN AND PROFILE DRAWINGS, AND TECHNICAL PROVISIONS SECTION T-6(B).
2. "t" INDICATES THE THICKNESS OF STEEL PLATE AT THE STATION WHERE USED.
3. BEFORE WELDING, DRILL AND TAP TEST HOLES. CONTRACTOR TO AIR AND SOAP TEST AFTER WELDING IS COMPLETED. PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TESTS.
4. FOR SINGLE-WELD AREAS, "Y" IS 5/16" FILLET WELD. FOR DOUBLE WELD AREAS "Y" IS FULL FILLET WELD. FOR THIS PROJECT ALL WELDS ARE SING-WELD.
5. "t<sub>2</sub>" INDICATES OFFSET OF O.D. OF STEEL CYLINDER. USE BUTT STRAP JOINT TYPE I IF "t<sub>2</sub>" IS 1/4" OR MORE.
6. BUTT-STRAPS TO BE FURNISHED IN TWO PIECES AND SHIPPED LOOSE FOR FIELD JOINING. (BACKING PLATE SHALL BE 1/4" THICK BY 1" WIDE).
7. ONE HANDHOLE IS REQUIRED PER EACH BUTT-STRAP JOINT.
8. PIPING WELDS MAY BE OUTSIDE OR INSIDE WELDS.
9. WELD PLUG TO COUPLING AND CEMENT MORTAR LINE OR COAT EXPOSED INTERIOR METAL SURFACES IN FIELD.
10. ALL WELD ROD TO BE 6010, 6012, OR APPROVED EQUAL.



CEMENT MORTAR PIPE COATING & LINING AT BUTT STRAP JOINTS

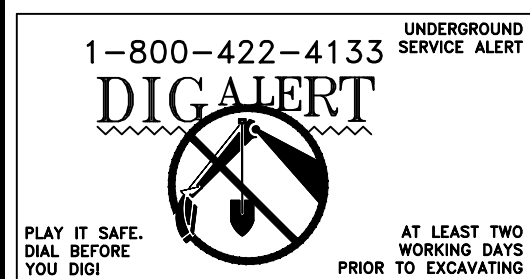
NOT TO SCALE

3

CEMENT MORTAR PIPE COATING & LINING AT FIELD WELDED LAP JOINTS

NOT TO SCALE

4



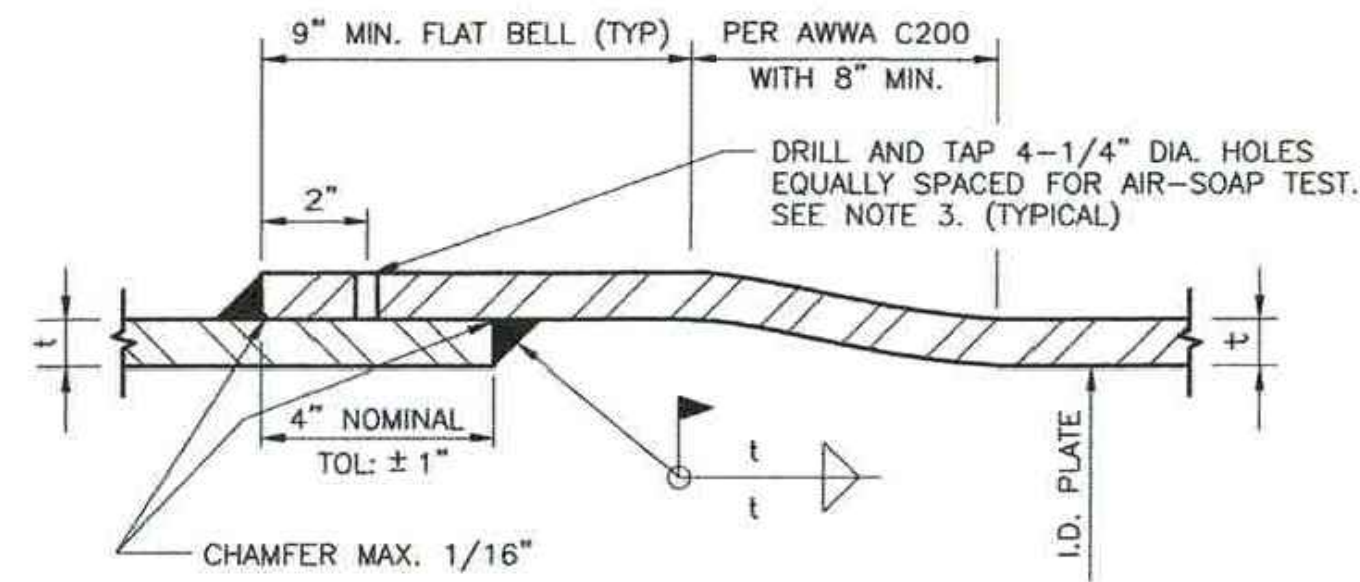
DISCLAIMER  
APPROVAL BY C.V.W.D. DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF DESIGN OR THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, STRUCTURES, AND CONDITIONS WITHIN THE LIMITS OF THE PROJECT.

SCALE: N/A  
DRAWN BY: JPF  
CHECKED BY: KEB  
APPROVED BY: JTN  
AS BUILT BY:

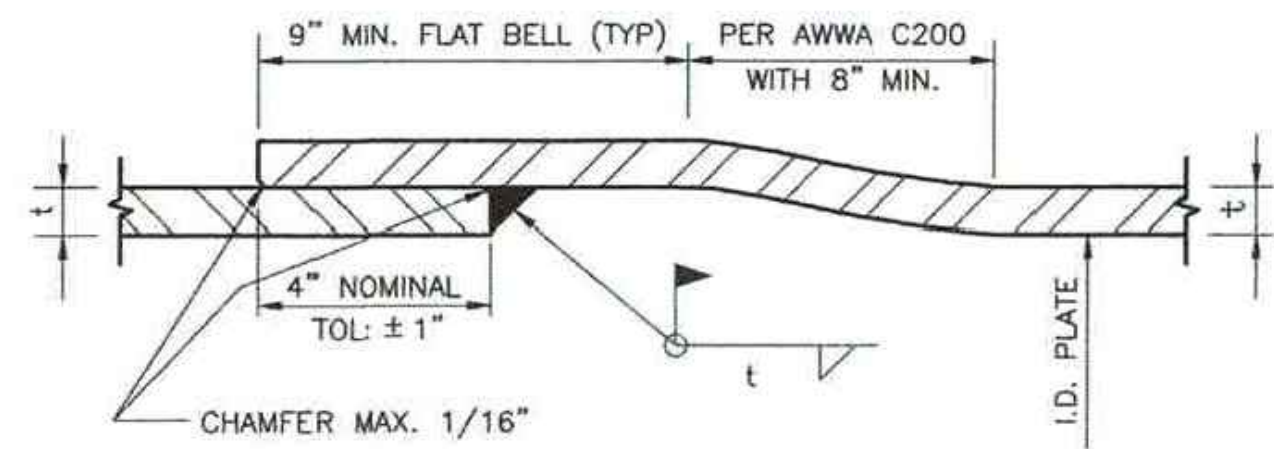
DATE  
CRESCENTA VALLEY WATER DISTRICT  
ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE  
DETAILS

CITY OF GLENDALE PERMIT No.: CV-20-21  
SHT. 6 OF 7 SHTS.  
COMPLETION DATE: MAR. 2022  
JOB NO. D-21-G2  
LINEAR FT.  
DWG NO. C-502





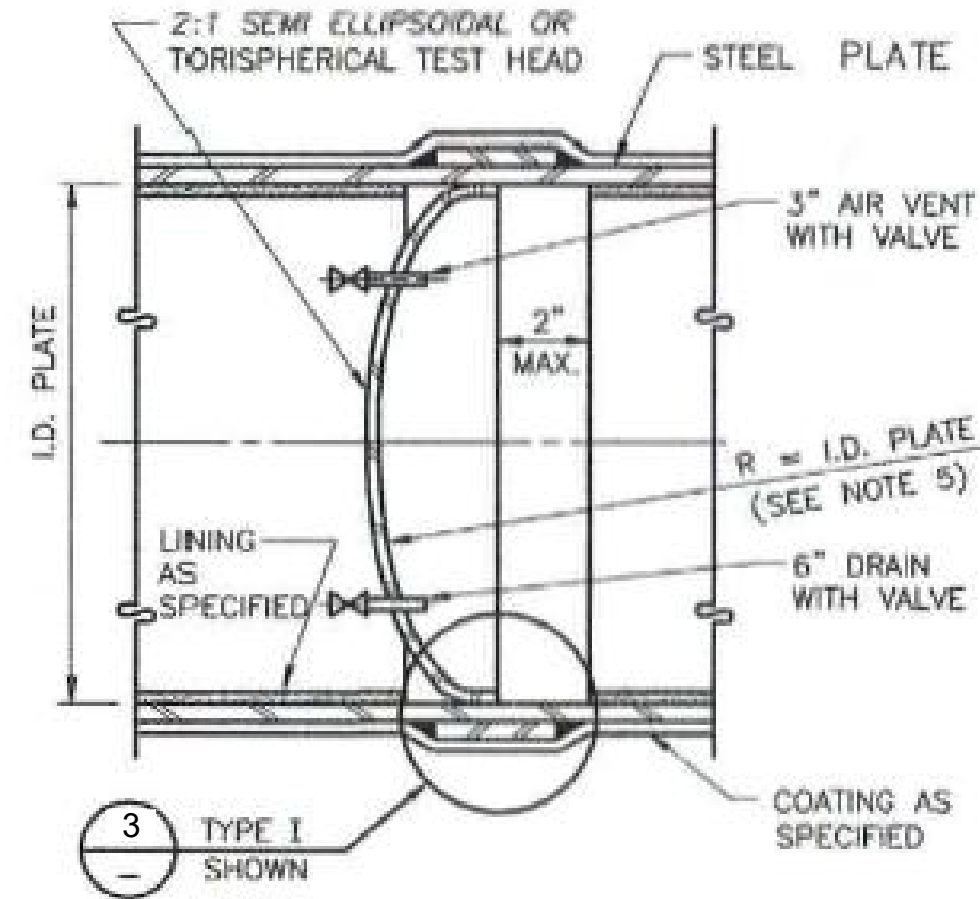
DOUBLE-WELDED LAP JOINT  
MAX. PULL 3/4"



SINGLE-WELDED LAP JOINT  
MAX. PULL 3/4"

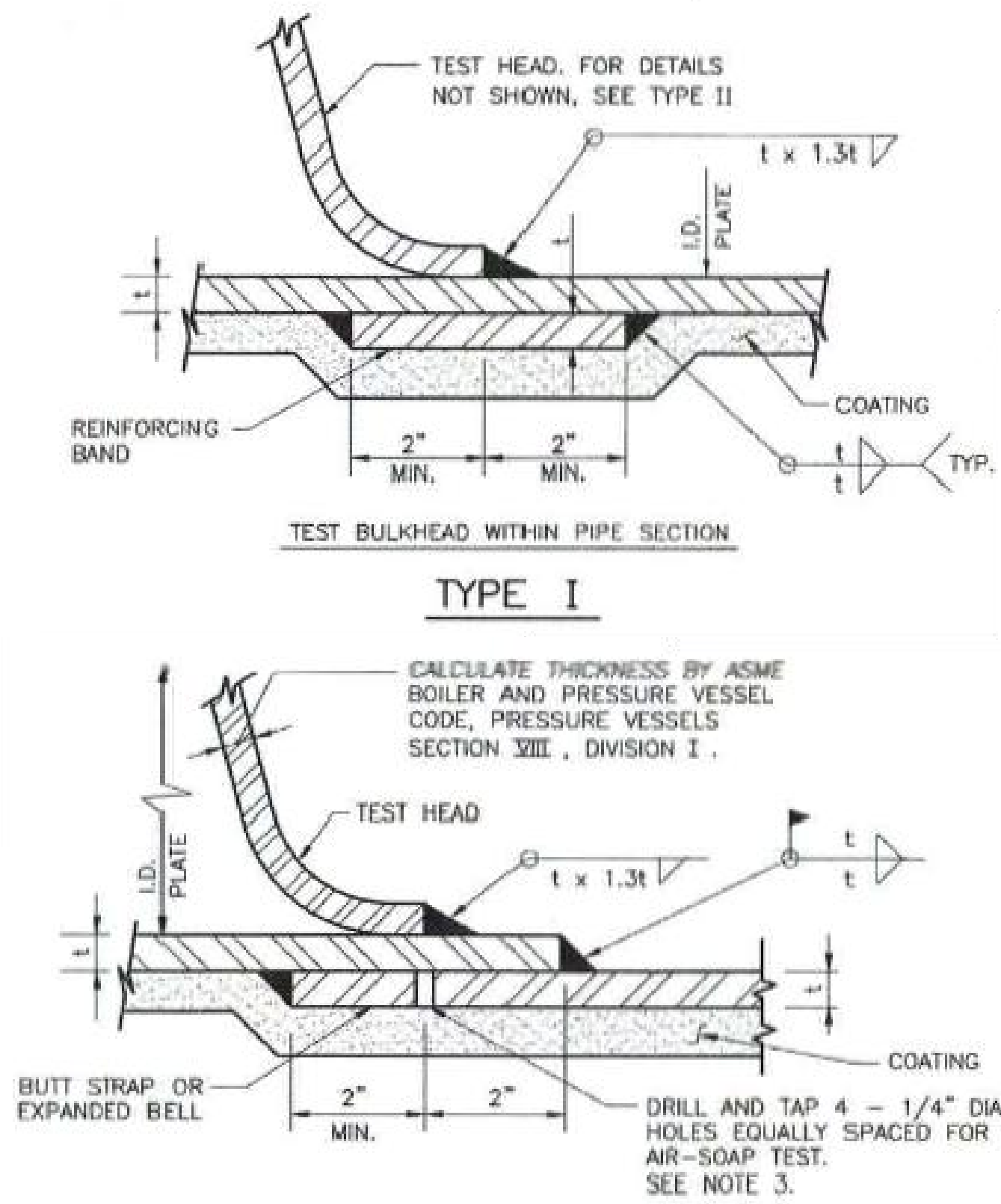
WELDED STEEL PIPE JOINT DETAILS  
NOT TO SCALE

1



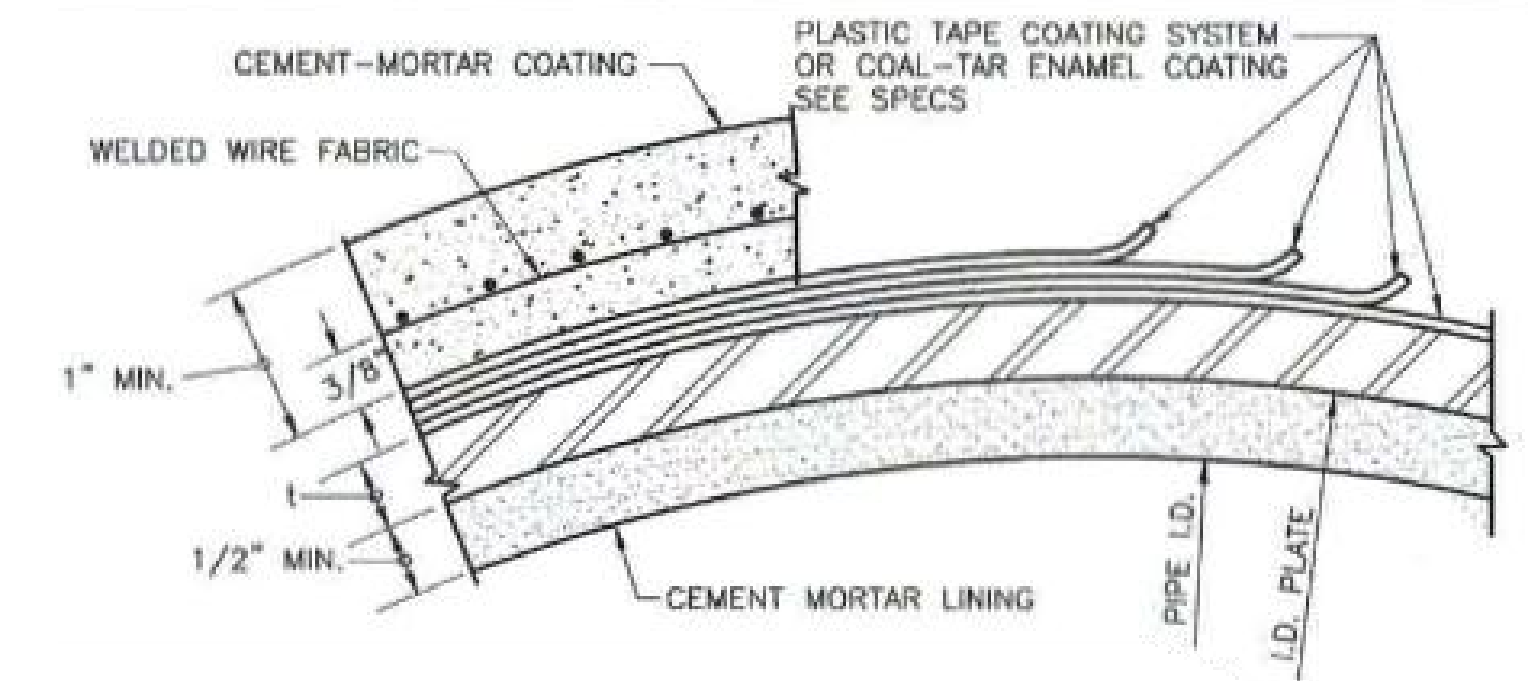
TEST BULKHEAD  
NOT TO SCALE

2



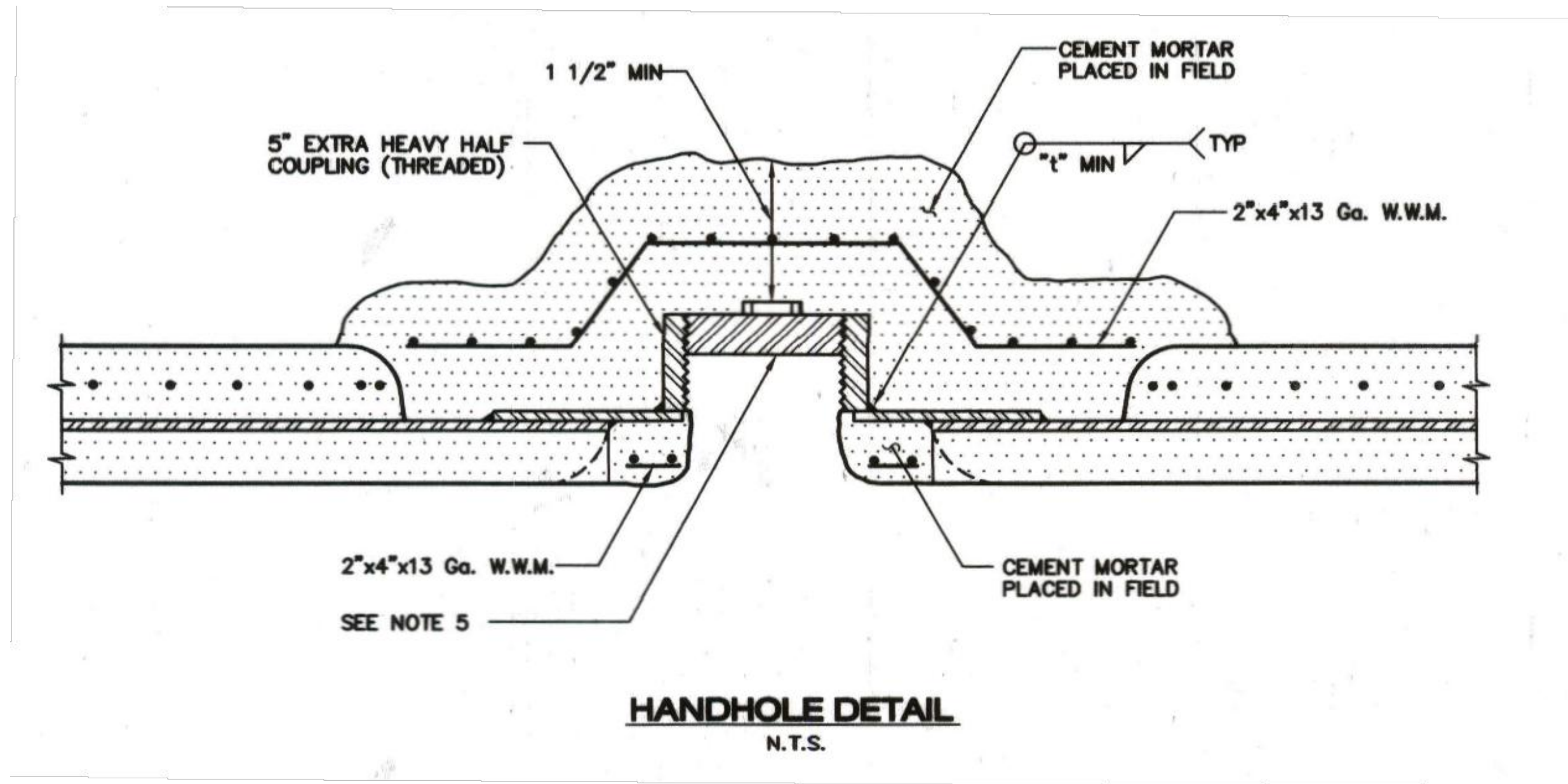
TEST BULKHEAD DETAILS  
NOT TO SCALE

3

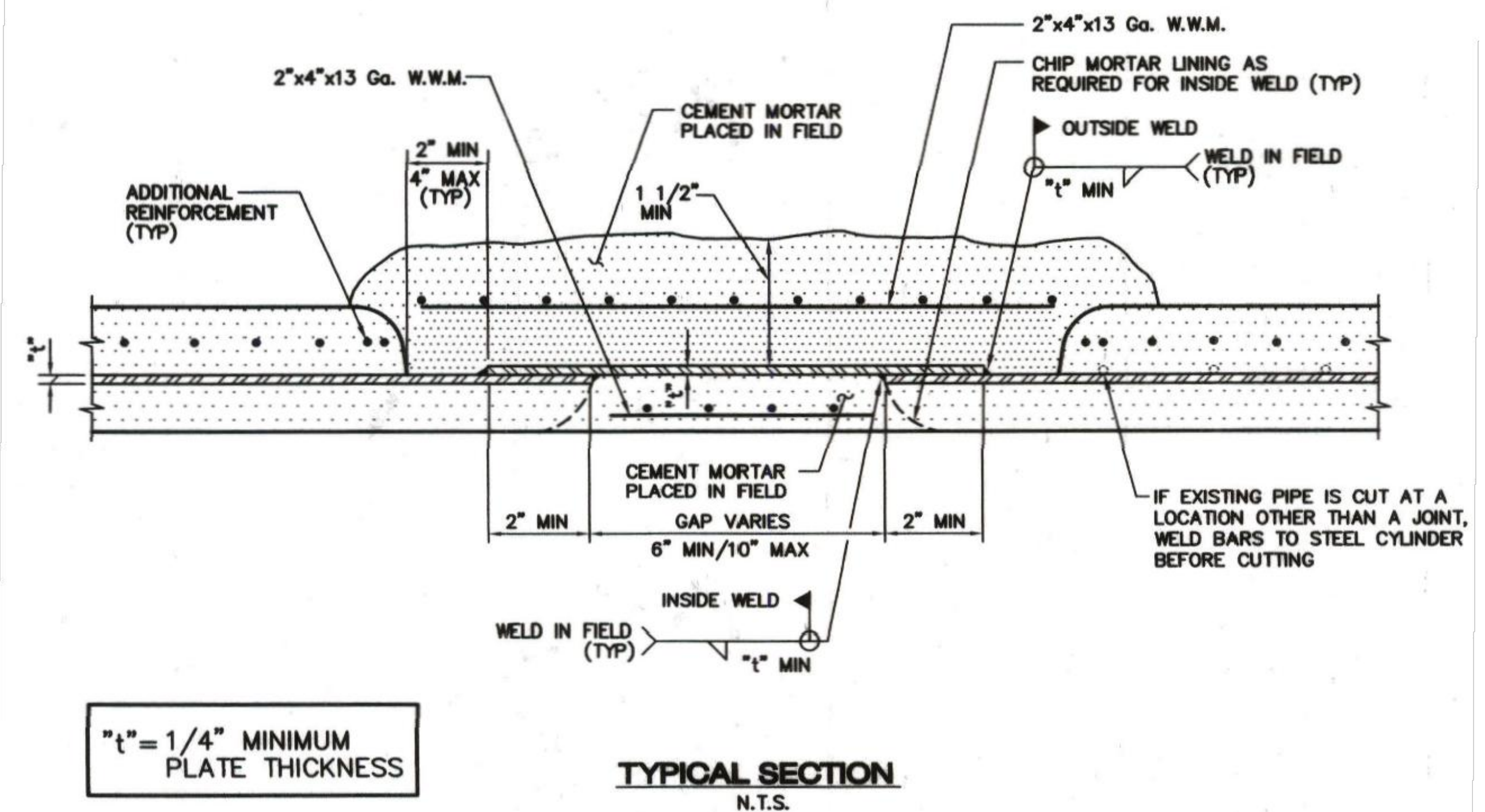


CEMENT MORTAR PIPE COATING & LINING DETAIL  
NOT TO SCALE

4



BUTT-STRAP JOINT  
NOT TO SCALE



5



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SCALE: N/A  
DATE:  
DRAWN BY: JPF  
CHECKED BY: KEB  
APPROVED BY: JTN  
AS BUILT BY:

CRESCENTA VALLEY WATER DISTRICT  
ANDERSON W. CLARK MAGNET HIGH SCHOOL FIRE SERVICE LINE  
DETAILS

CITY OF GLENDALE PERMIT No.: CV-20-21  
SHT. 7 OF 7 SHTS.  
COMPLETION DATE: MAR. 2022  
JOB NO. D-21-G2  
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