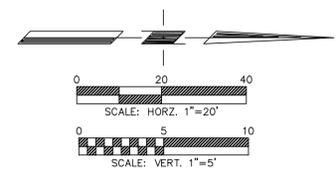
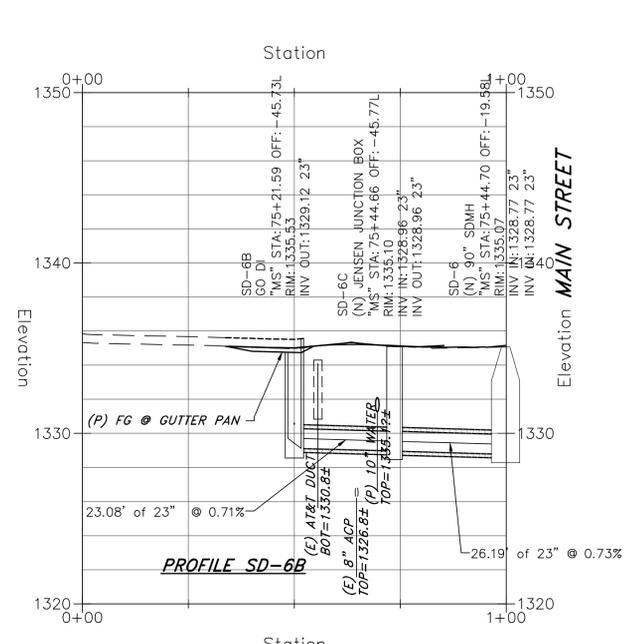
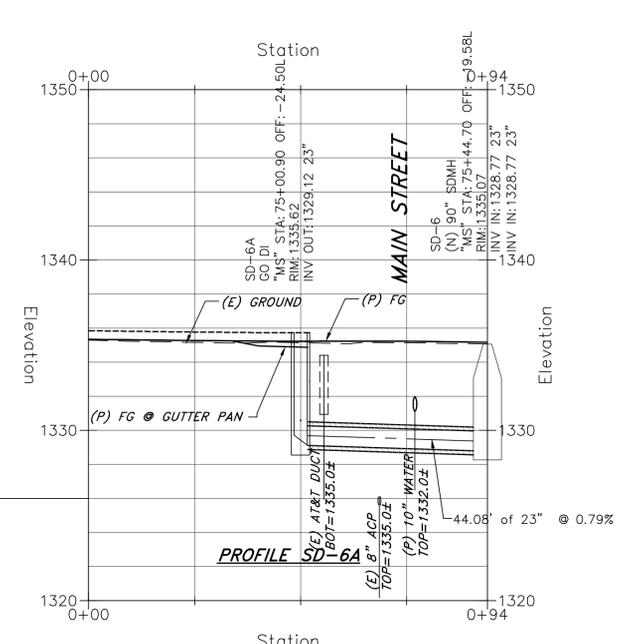
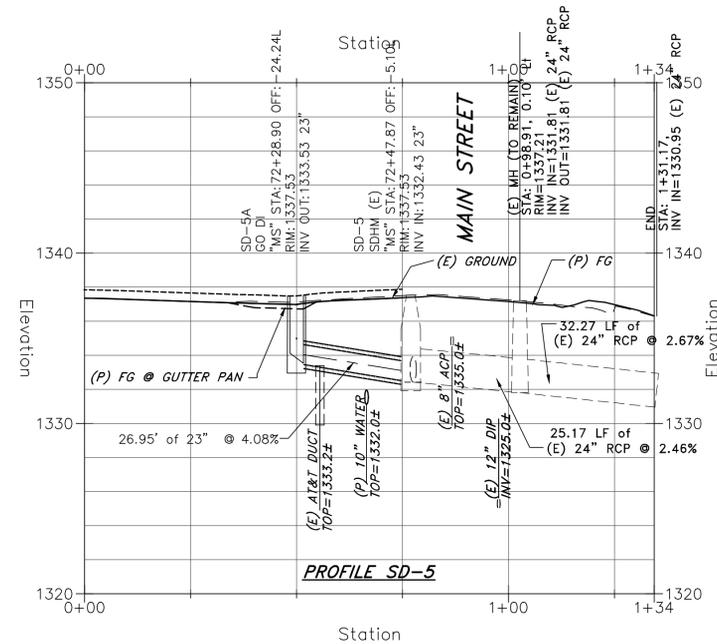


- NOTE:
- SEE SHEET CD-4 FOR DRAINAGE STRUCTURE DETAILS.
 - ALL DRAINAGE GRATES SHALL BE 24X12X BICYCLE PROOF GRATES.
 - JUNCTION BOX SHALL BE A JENSEN PRECAST D13636 WITH TRAFFIC RATED GRATE TYPE SG3636-DH.
 - CONTRACTOR SHALL VERIFY UTILITIES BEFORE ORDERING SUPPLIES.
 - ALL STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURE UNLESS OTHERWISE INDICATED



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
 CATHY A. McKEON
 NO. 51026
 EXP. 9-30-17
 CIVIL
 STATE OF CALIFORNIA
 FEB. 18, 2016

Crawford & Associates, Inc.
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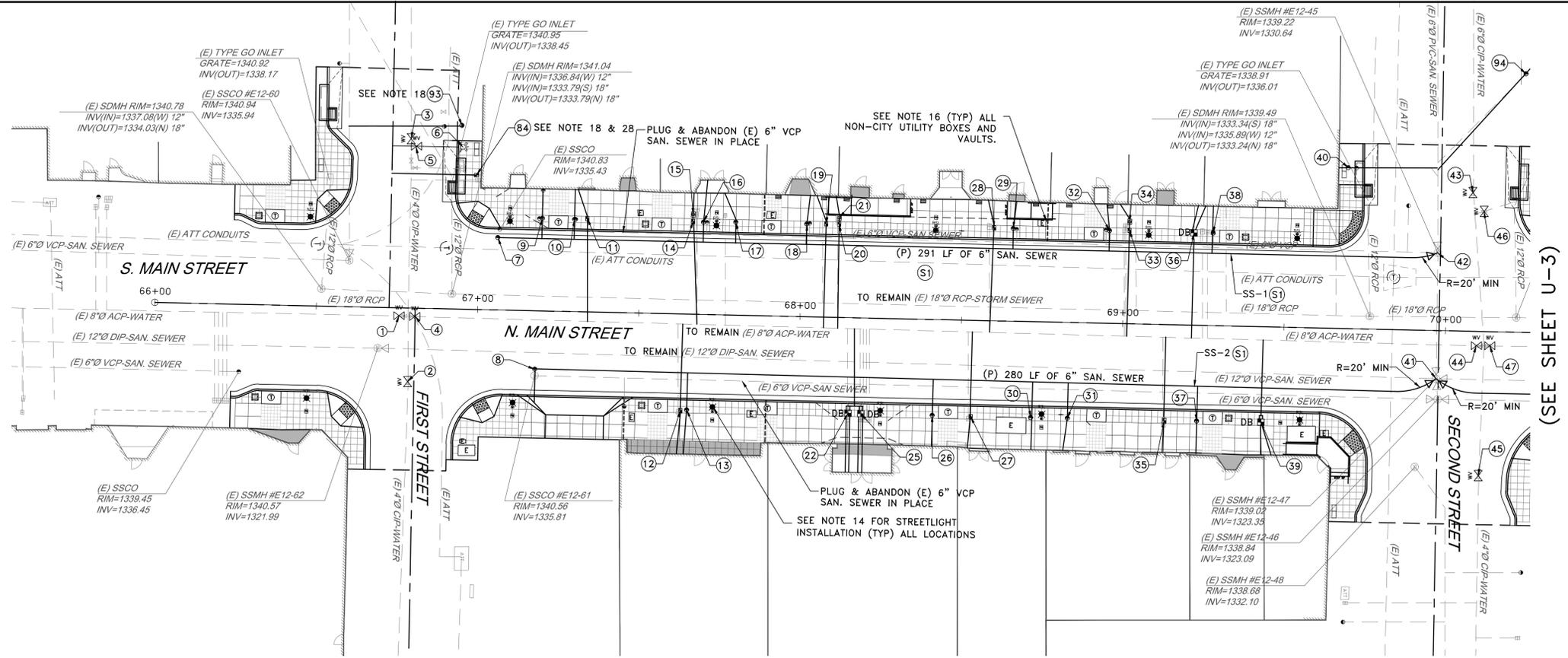
LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 MAIN STREET LAKEPORT, CA.

SCALE: 1"=20' APPROVED BY: DRAWN BY: MAW
 DATE: FEB. 2016 REVIEWED BY: CAM

STORM DRAINAGE PLAN & PROFILE
 THIRD ST. & MAIN ST./FOURTH ST. & MAIN ST.
 CITY OF LAKEPORT DRAWING NUMBER SD-2 of 70 SHTS

UTILITY CONSTRUCTION NOTES:

- ALL SEWER AND WATER MAIN CONSTRUCTION TO BE DONE IN CONFORMANCE WITH CITY STANDARDS (2012).
- SEE WATER NOTES CITY STD NO. 500.
- ALL EXISTING SEWER AND WATER SERVICE LATERALS AND WATER VALVES WITHIN THE PROJECT LIMITS ARE TO BE REPLACED, UNLESS NOTED OTHERWISE. FULL REPLACEMENT SHALL BE FROM MAIN TO BUILDING WALL AT (E) CONNECTIONS.
- ALL TRENCHING TO BE AS SHOWN ON DETAIL 1, SHEET CD-6.
- LOCATION OF SIDEWALK UTILITY BOXES SHALL BE AS SHOWN ON DETAIL-1, SHEET CD-2.
- WHERE NEW SEWER AND WATER CONNECTIONS ARE PROVIDED, AND NO EXISTING CONNECTION EXISTS, LATERAL STUBS SHALL BE CONSTRUCTED TO AND THROUGH BUILDINGS AS SHOWN ON CITY STD NO. 526.
- ALL NEW AND/OR REPLACEMENT SEWER SERVICE LATERALS SHALL BE 4" AND RECONSTRUCTED IN ACCORDANCE WITH CITY STD. NO. 309, SEE NOTE 4.
- ALL WATER SERVICE LATERALS SHALL BE 1" UNLESS NOTED OTHERWISE. 1" LATERALS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 509.
- WHERE NOTED, 2" WATER LATERALS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 505.
- WHERE NOTED, DUAL WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 504, SEE NOTE 3.
- WHERE NOTED, QUAD 1" WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 521.
- PRESSURE REDUCING VALVES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD NO. 517 AND 518.
- WATER VALVES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 501.
- METERS SHALL BE INSTALLED BY THE CONTRACTOR. SALVAGED METERS SHALL BE TAGGED TO IDENTIFY THE EXISTING SERVICE AND REINSTALLED AT SAME SERVICE WHEN RECONSTRUCTED.
- SEE SHEET D-1 THROUGH D-4 FOR ITEMS REMOVED.
- ALL STATION REFERENCES ARE TO CENTER OF BOXES. LOCATION OF CONNECTIONS AT BUILDINGS AND AT MAINS ARE EXISTING/DESIGN LOCATIONS AS SHOWN ON THE PLAN AND PROFILE, OR AS DIRECTED BY THE ENGINEER.
- SEE SHEET E1-E4 FOR STREETLIGHT CONSTRUCTION.
- SEE SHEETS SD-1 THROUGH SD-2 FOR STORM DRAIN CONSTRUCTION.
- PGE UTILITY BOXES AND VAULTS TO BE RESET/RELOCATED BY OTHERS.
- CITY WATER METER AND IRRIGATION CONTROLLER TO BE RELOCATED. SEE SHEETS D-2 FOR DEMOLITION AND SHEETS LI-2 FOR RELOCATION OF CONTROLLER. RELOCATED METER PER SHEET U-3.
- WATER LATERAL SHALL CLEAR STRUCTURE AS NOTED ON CITY STD. NO. 7.
- WHERE UTILITY IS PLACED OUTSIDE LIMITS OF PAVING, ALL SIDEWALK AND ROADWAY SHALL BE REPLACED IN ACCORDANCE WITH CITY STANDARD. SIDEWALK SHALL BE REPLACED TO NEAREST SCORE-LINE.
- TRENCHING SHALL BE DONE IN ACCORDANCE WITH DETAIL 1, SHEET CD-6 FOR ALL WORK WITHIN PAVING LIMITS. FOR WORK OUTSIDE PAVING LIMITS ALL WORK SHALL BE DONE IN CONFORMANCE WITH CITY STD. NO. 222.
- SSMH CONNECTIONS SHALL BE INSIDE DROPS PER CITY STD. NO. 304.
- MULTIPLE COMBINED WATER METER SERVICES (QUAD OR TRIPLE) SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 521.
- FIRE HYDRANTS SHALL BE RESET IN ACCORDANCE WITH CITY STD. NO. 502.
- RODDING INLET SHALL BE CONSTRUCTED PER CITY STD. NO. 307. 6" MAIN MAY HAVE 20' LONG RADIUS SWEEPS JUST UPSTREAM OF SSMH.
- A MINIMUM OF 6" CLEARANCE SHALL BE PROVIDED FROM ALL STRUCTURES.



(SEE SHEET U-2 FOR PROFILES OF SS-1 AND SS-2)

UTILITY CONSTRUCTION ITEM

- (S1) CONSTRUCT 6" SANITARY SEWER MAIN
- (S2) CONSTRUCT 4" SANITARY SEWER MAIN RODDING INLET AND BOX
- (S3) CONSTRUCT 4" SANITARY SEWER SERVICE, CLEANOUT, AND BOX (SHALLOW)
- (S4) CONSTRUCT 4" SANITARY SEWER SERVICE, CLEANOUT, AND BOX (DEEP)
- (S5) CONNECT 6" SS MAIN TO (E) SSMH WITH INSIDE DROP. SEE NOTE 25.
- (S6) CONSTRUCT 4" SANITARY SEWER SERVICE STUB, CLEANOUT AND BOX (SHALLOW AND DEEP)
- (W1) CONSTRUCT SINGLE 1" WATER LATERAL, METER, AND BOX
- (W2) CONSTRUCT SINGLE 2" WATER LATERAL, METER, AND BOX
- (W3) CONSTRUCT 2" WATER LATERAL, DOUBLE METERS, AND BOX
- (W4) CONSTRUCT QUAD 1" WATER SERVICES, METERS WITH 2" LATERALS AND MANIFOLD. EACH DBL METER SHALL BE IN B24 BOX. BOXES NOTED SEPARATELY.
- (W5) CONSTRUCT 1" PRV WATER IN BOX
- (W6) CONSTRUCT 4" GATE VALVE IN BOX
- (W7) CONSTRUCT 6" GATE VALVE IN BOX
- (W8) INSTALL 8" GATE VALVE IN BOX
- (W10) RESET FIRE HYDRANT
- (W11) CONSTRUCT 2" WATER LATERAL WITH THREE (3) EA. 1" WATER SERVICES AND METERS. METERS INSTALLED IN ONE (2) SINGLE B9 BOX AND ONE (1) DOUBLE B24 BOX. EACH METER BOX NOTED SEPARATELY. SEE NOTE 23.
- (W12) CONSTRUCT DOUBLE 1" PRV IN B24 BOX
- (W13) RELOCATE FIRE HYDRANT
- (W14) CONSTRUCT 1" WATER SERVICE STUB AND BOX. NO METER.

KEY NOTES

| Structure Name | RIM EL | STATION | OFFSET | ITEM ID |
|----------------|---------|-----------|-----------|---------|
| 1 | 1340.98 | MS66+75.7 | 2.41, R | W5 |
| 2 | 1340.39 | MS66+78.8 | 22.71, R | W6 |
| 3 | 1342.85 | MS66+78.3 | -52.28, L | W6 |
| 4 | 1341.01 | MS66+80.7 | 2.47, R | W8 |
| 5 | 1342.52 | MS66+79.9 | -49.88, L | W7 |
| 6 | 1342.75 | MS66+94.4 | -50.03, L | W13 |
| 7 | 1340.83 | MS67+05.8 | -22.30, L | S2 |
| 8 | 1340.66 | MS67+18.1 | 18.03, R | S2 |
| 9 | 1341.30 | MS67+19.5 | -28.59, L | S3 |
| 10 | 1333.31 | MS67+29.5 | -28.50, L | S3 |
| 11 | 1341.41 | MS67+33.4 | -28.81, L | W1 |
| 12 | 1340.73 | MS67+63.5 | 29.81, R | W1 |
| 13 | 1340.73 | MS67+65.5 | 29.58, R | S3 |
| 14 | 1341.49 | MS67+66.2 | -28.63, L | W1 |
| 15 | 1341.52 | MS67+66.2 | -30.76, L | W5 |
| 16 | 1341.47 | MS67+69.5 | -28.58, L | S3 |
| 17 | 1341.45 | MS67+79.5 | -28.66, L | S3 |
| 18 | 1341.39 | MS68+01.5 | -28.60, L | S3 |
| 19 | 1341.37 | MS68+07.5 | -28.79, L | W1 |
| 20 | 1341.36 | MS68+11.4 | -28.74, L | W1 |

| Structure Name | RIM EL | STATION | OFFSET | ITEM ID |
|----------------|---------|-----------|-----------|---------|
| 21 | 1341.39 | MS68+11.4 | -30.82, L | W5 |
| 22 | 1340.73 | MS68+15.5 | 29.50, R | W4 |
| 25 | 1340.71 | MS68+19.4 | 29.52, R | W4 |
| 26 | 1340.31 | MS68+41.6 | 29.61, R | S3 |
| 27 | 1340.05 | MS68+53.5 | 29.78, R | W1 |
| 28 | 1341.26 | MS68+59.5 | -28.73, L | W1 |
| 29 | 1341.20 | MS68+65.5 | -28.60, L | S3 |
| 30 | 1339.69 | MS68+72.1 | 29.59, R | S3 |
| 31 | 1339.40 | MS68+83.4 | 29.58, R | S3 |
| 32 | 1340.98 | MS68+95.3 | -28.61, L | S3 |
| 33 | 1340.91 | MS69+01.5 | -28.81, L | W1 |
| 34 | 1340.93 | MS69+01.5 | -31.50, L | W5 |
| 35 | 1339.31 | MS69+13.5 | 29.67, R | W1 |
| 36 | 1340.48 | MS69+21.5 | -28.50, L | W3 |
| 37 | 1339.31 | MS69+23.5 | 29.58, R | S3 |
| 38 | 1340.30 | MS69+27.4 | -28.49, L | W3 |
| 39 | 1339.27 | MS69+43.5 | 29.45, R | S3 |
| 40 | 1340.17 | MS69+68.8 | -49.63, L | S3 |
| 41 | 2008.53 | MS69+97.4 | 14.85, R | S5 |
| 42 | 2008.82 | MS69+97.2 | -23.97, L | S5 |

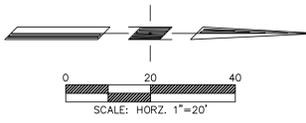
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|----------------|---------|-----------|-----------|---------|
| 43 | 1339.36 | MS70+07.6 | -42.83, L | W7 |
| 44 | 1339.08 | MS70+09.6 | 4.46, R | W8 |
| 45 | 1338.13 | MS70+11.1 | 44.49, R | W6 |
| 46 | 1339.05 | MS70+11.2 | -37.09, L | W7 |
| 47 | 1339.05 | MS70+13.9 | 4.32, R | W8 |
| 48 | 1338.96 | MS70+28.6 | -42.96, L | W10 |
| 49 | 1338.21 | MS70+59.4 | 29.62, R | S3 |
| 50 | 1338.21 | MS70+67.3 | 29.67, R | W1 |
| 51 | 1335.98 | MS73+88.4 | 29.00, R | W1 |
| 52 | 1335.98 | MS73+82.2 | 29.11, R | S3 |
| 53 | 1337.72 | MS71+09.3 | 29.62, R | S3 |
| 54 | 1337.72 | MS71+12.7 | 29.64, R | W1 |
| 55 | 1337.76 | MS71+61.3 | 29.78, R | W12 |
| 56 | 1337.77 | MS71+65.3 | 29.50, R | W12 |
| 57 | 1337.78 | MS71+85.3 | 29.56, R | S3 |
| 58 | 1337.89 | MS70+85.3 | 29.67, R | W2 |
| 59 | 1337.80 | MS71+87.6 | 29.56, R | S3 |
| 60 | 1337.41 | MS72+14.8 | 18.14, R | S2 |
| 61 | 1335.39 | MS75+01.6 | 18.02, R | S2 |
| 62 | 1337.73 | MS72+17.3 | 29.50, R | W3 |

| Structure Name | RIM EL | STATION | OFFSET | ITEM ID |
|----------------|---------|-----------|-----------|---------|
| 63 | 1337.63 | MS72+45.1 | -44.08, L | W10 |
| 64 | 1337.15 | MS72+64.7 | 14.55, R | S4 |
| 65 | 1337.27 | MS72+68.9 | 3.46, R | W8 |
| 66 | 1337.37 | MS72+71.3 | -34.77, L | W7 |
| 67 | 1337.23 | MS72+73.6 | 3.40, R | W8 |
| 68 | 1337.44 | MS72+74.2 | -43.13, L | W7 |
| 69 | 1336.44 | MS73+39.5 | 28.92, R | W1 |
| 70 | 1335.76 | MS74+20.4 | 29.09, R | S3 |
| 71 | 1336.46 | MS73+44.1 | 32.25, R | S3 |
| 72 | 1336.41 | MS73+44.2 | 29.10, R | S3 |
| 73 | 1335.73 | MS74+26.4 | 29.00, R | W3 |
| 74 | 1339.75 | MS74+26.4 | 32.50, R | W11 |
| 77 | 1334.77 | MS75+19.0 | 37.26, R | W10 |
| 78 | 1335.42 | MS75+32.8 | 4.02, R | W8 |
| 79 | 1335.43 | MS75+34.0 | 3.20, R | W7? |
| 80 | 1335.38 | MS75+34.0 | 5.24, R | W7? |
| 81 | 1334.97 | MS75+35.0 | 36.50, R | W7? |
| 82 | 1335.43 | MS75+33.1 | -53.00, L | W7? |
| 83 | 1335.40 | MS75+35.2 | 4.06, R | W8 |
| 84 | 1341.69 | MS66+98.8 | -41.50, L | W1 |

| Structure Name | RIM EL | STATION | OFFSET | ITEM ID |
|----------------|---------|-----------|-----------|---------|
| 85 | 1335.25 | MS75+66.2 | -29.10, L | S4 |
| 86 | 1335.10 | MS75+82.5 | -29.17, L | W1 |
| 87 | 1335.10 | MS75+82.5 | -31.97, L | W5 |
| 88 | 1335.03 | MS75+88.6 | -28.98, L | S4 |
| 89 | 1333.41 | MS75+97.6 | 29.17, R | W3 |
| 90 | 1336.90 | MS73+56.2 | -29.13, L | S3 |
| 93 | 1343.30 | MS66+93.9 | -56.72, L | S3 |
| 94 | 1341.86 | MS70+23.3 | -79.79, L | S3 |

UTILITY LEGEND

- WATER METER
- DUAL WATER METER
- PRESSURE RELIEF VALVE
- SANITARY SEWER CLEANOUT
- WATER VALVE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 BAR REPRESENTS THREE INCHES ON ORIGINAL

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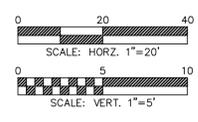
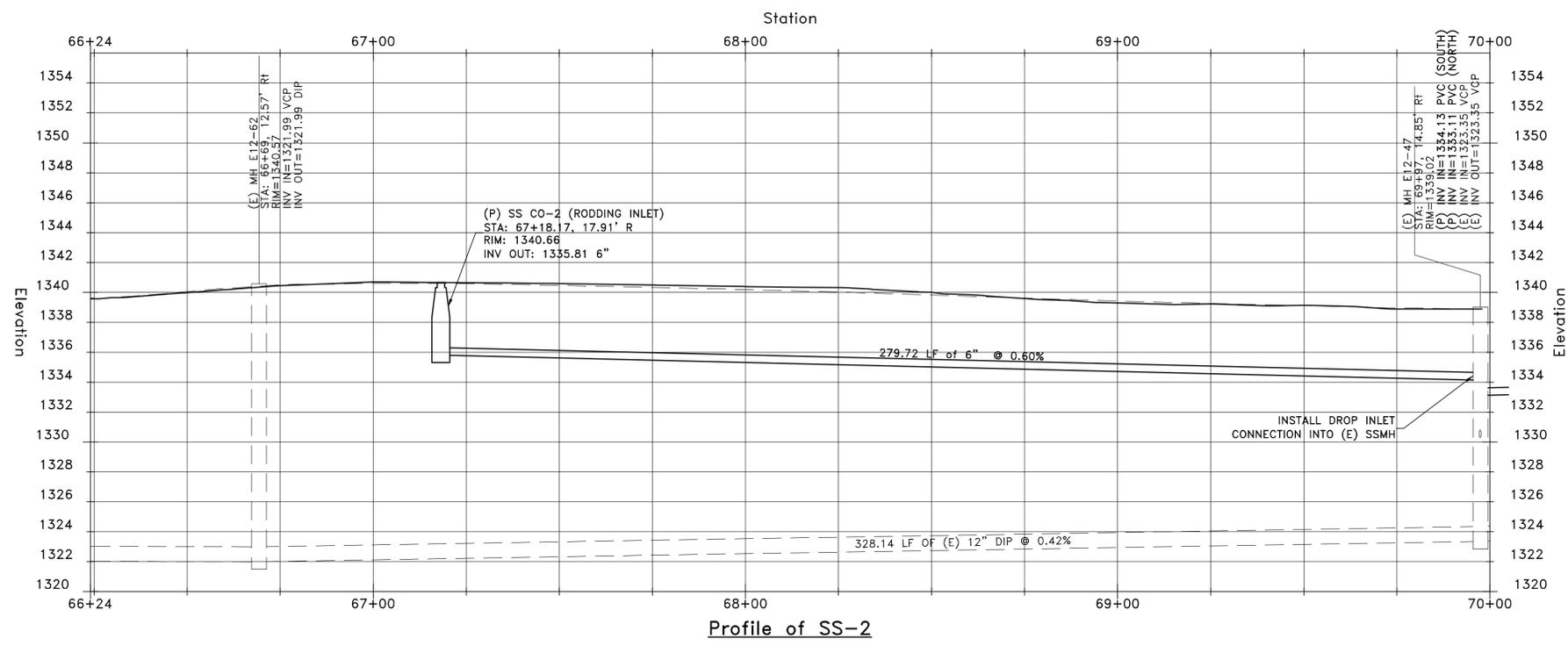
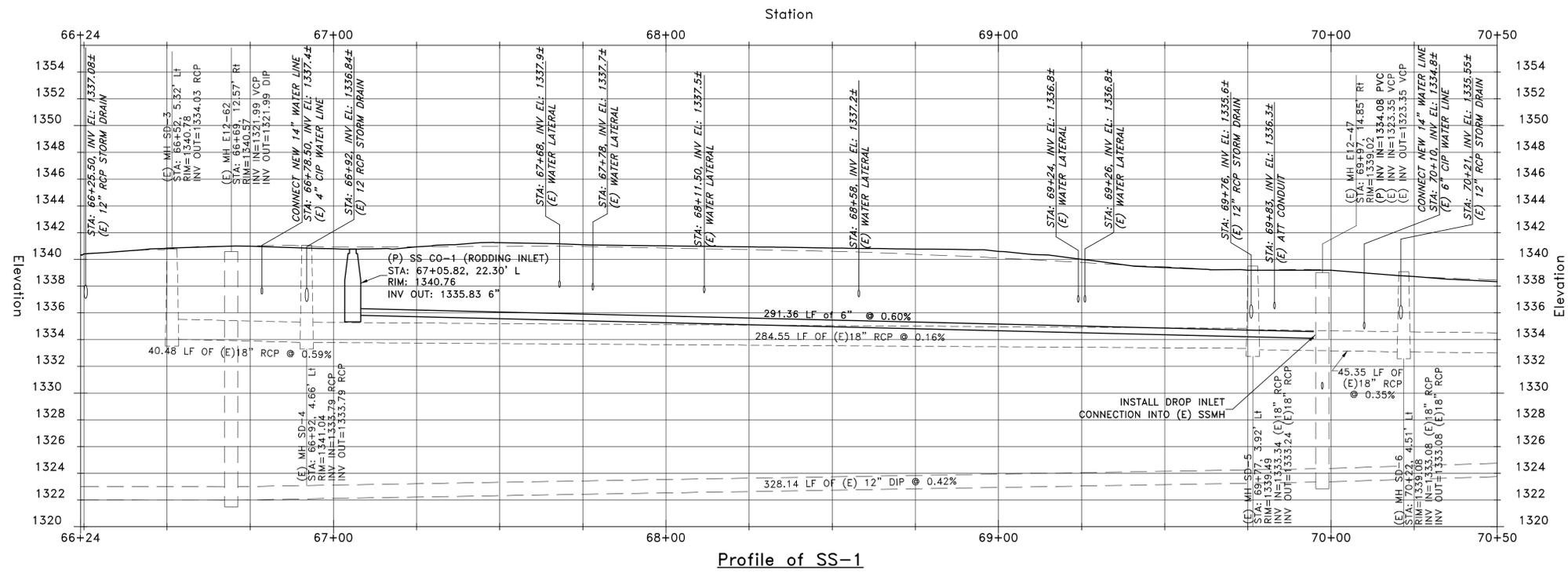
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 S. MAIN STREET LAKEPORT, CA.
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 DATE: FEB 2016 REVIEWED BY: CAM
WATER & SANITARY SEWER PLAN & NOTES
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 CITY OF LAKEPORT DRAWING NUMBER U-1 of 70 SHTS

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PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP: 9-30-17

VERIFY SCALE

0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
 CATHY A. McKEON
 NO. 51026
 EXP. 9-30-17
 CIVIL
 STATE OF CALIFORNIA
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
 S. MAIN STREET LAKEPORT, CA.

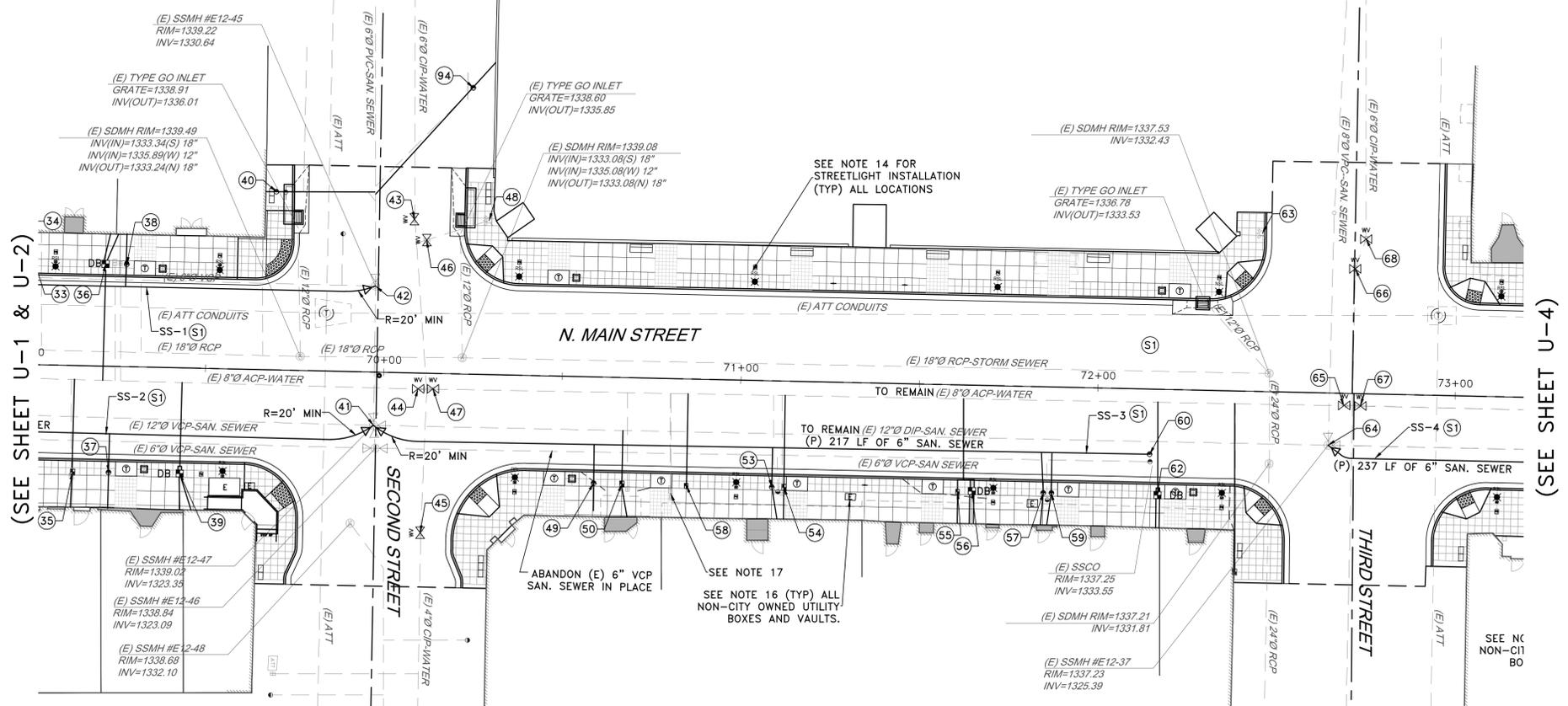
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WATER & SANITARY SEWER PROFILE
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CITY OF LAKEPORT DRAWING NUMBER
 U-2 of 70 SHTS

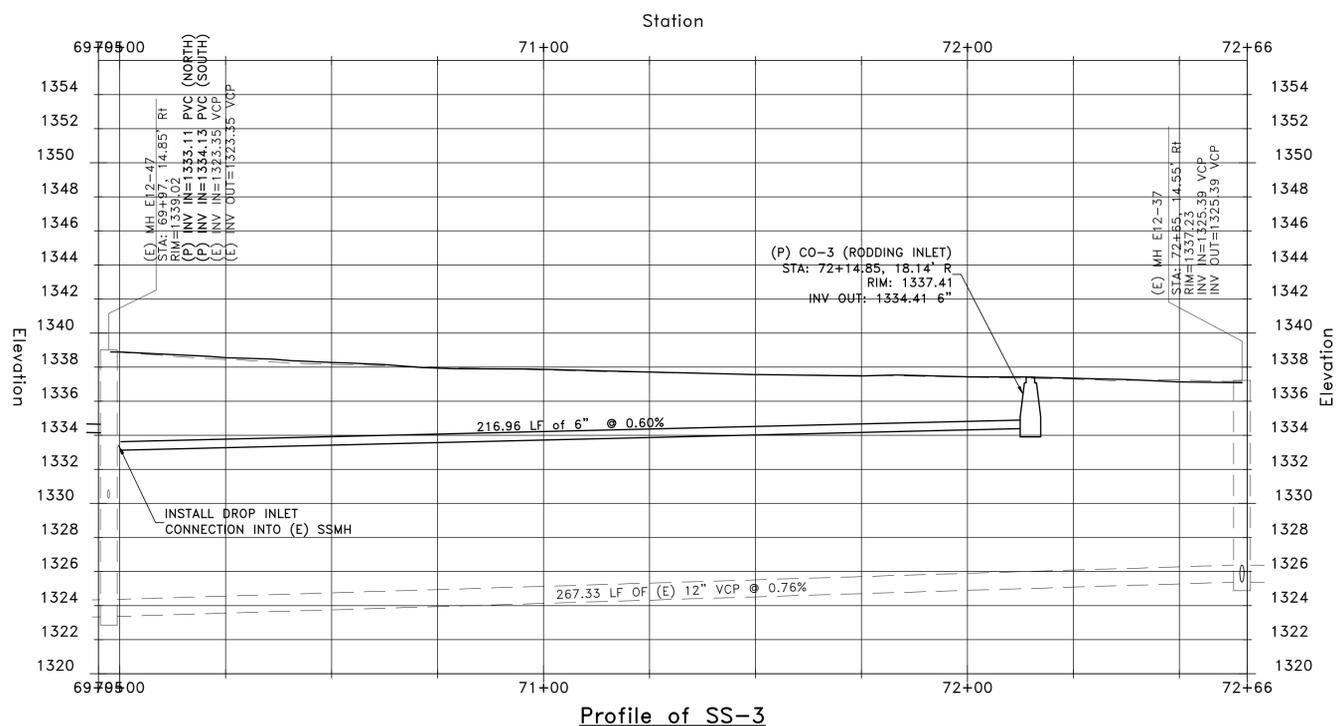
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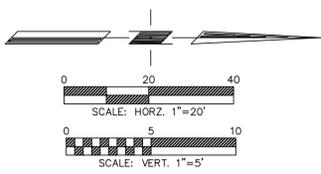


SEE SHEET U-1 & U-2

SEE SHEET U-4



Profile of SS-3



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP. 9-30-17

VERIFY SCALE

BAR REPRESENTS THREE INCHES ON ORIGINAL



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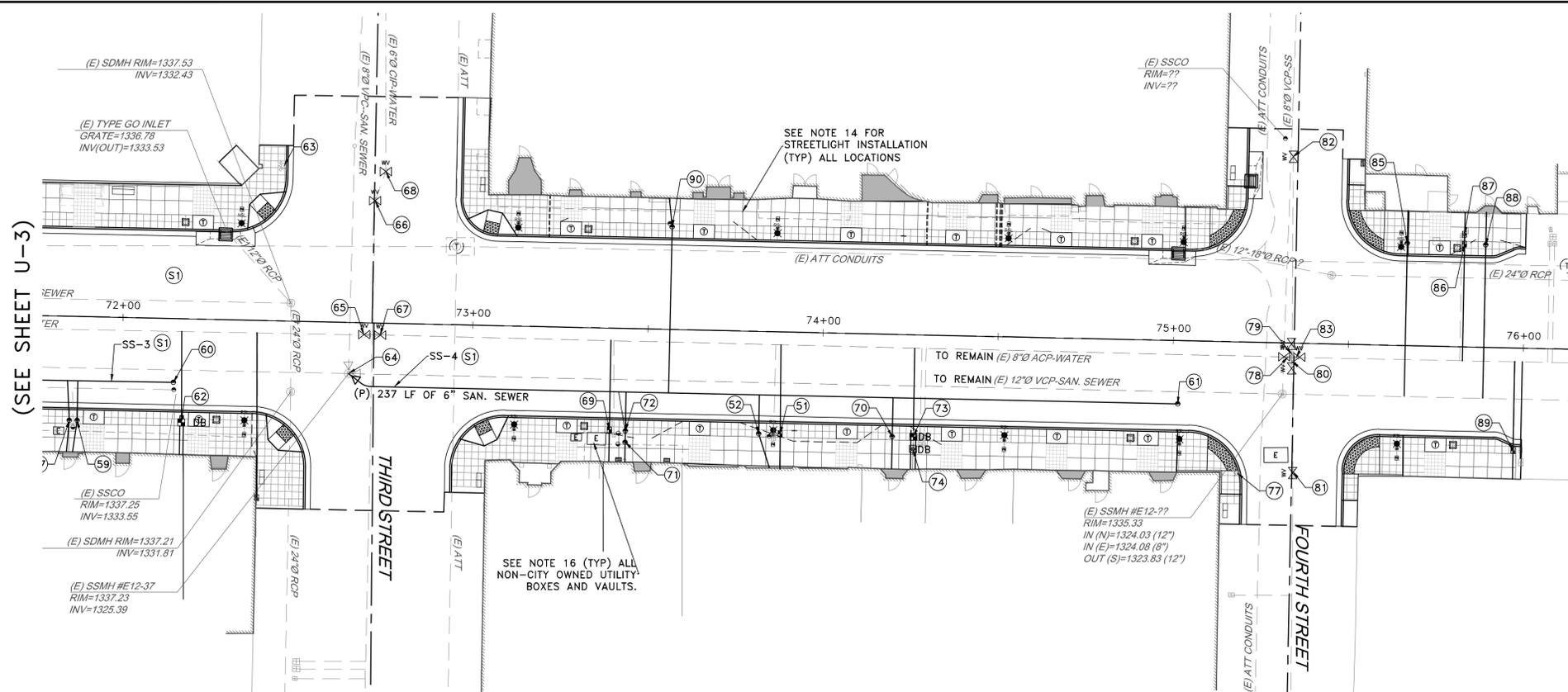
LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
 N. MAIN STREET STREET LAKEPORT, CA.

SCALE: 1"=20' APPROVED BY: DRAWN BY:RRH/MAW
 DATE: FEB 2016 REVIEWED BY: CAM

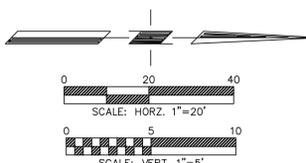
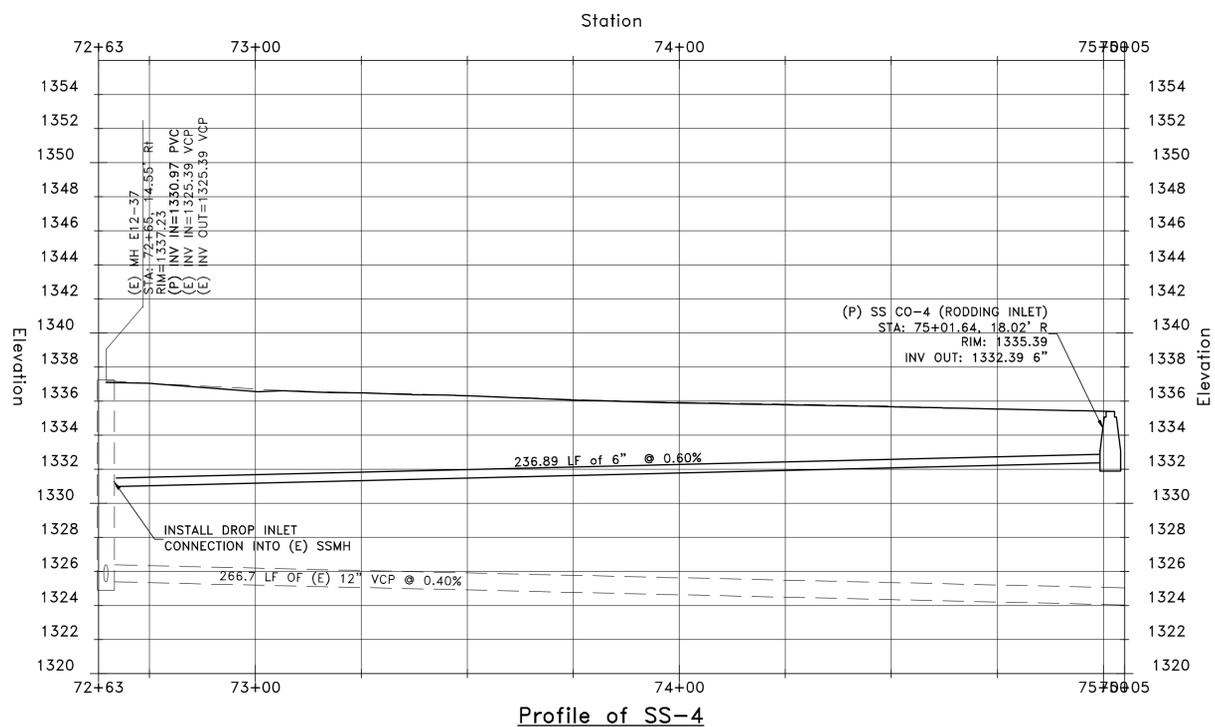
WATER & SANITARY SEWER PLAN & PROFILE
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CITY OF LAKEPORT DRAWING NUMBER U-3 of 70 SHTS

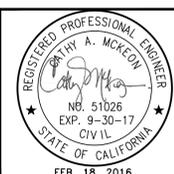
BID SET



(SEE SHEET U-3)



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 BAR REPRESENTS THREE INCHES ON ORIGINAL



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 Ukiah, CA 95482

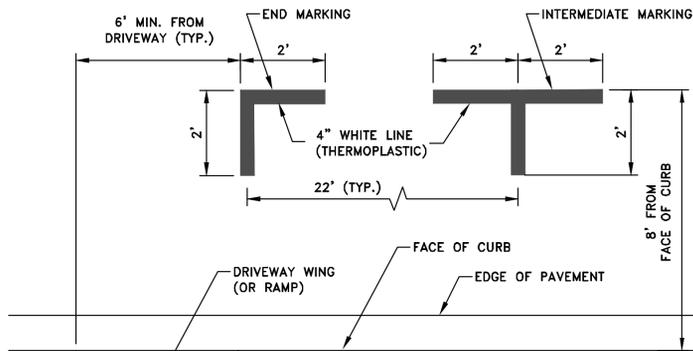
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
 N. MAIN STREET STREET LAKEPORT, CA.
 SCALE: 1"=20' APPROVED BY: DRAWN BY:RRH/MAW
 DATE: FEB 2016 REVIEWED BY: CAM
 WATER & SANITARY SEWER PLAN & PROFILE
 STA: STA: 73+50 TO 76+00
 CITY OF LAKEPORT DRAWING NUMBER
 U-4 of 70 SHTS

Xrefs: LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbous.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-TBLOCK.dwg
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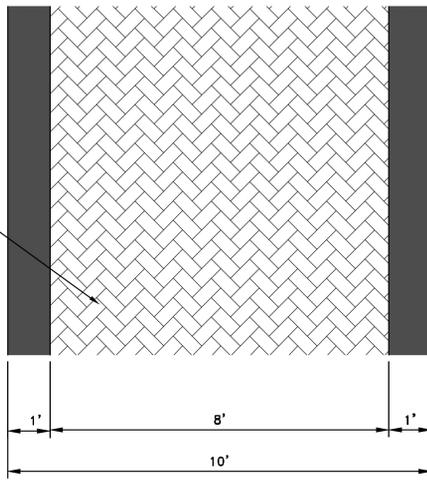
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PARKING SPACE DELINEATORS

USE 4"x8" BRICKS IN DIAGONAL HERRINGBONE PATTERN WITH CROSSWALK LIMIT LINE PER CALTRANS STD. PLAN A24E SHOWN



CROSSWALK PATTERN DETAIL

NOTE:

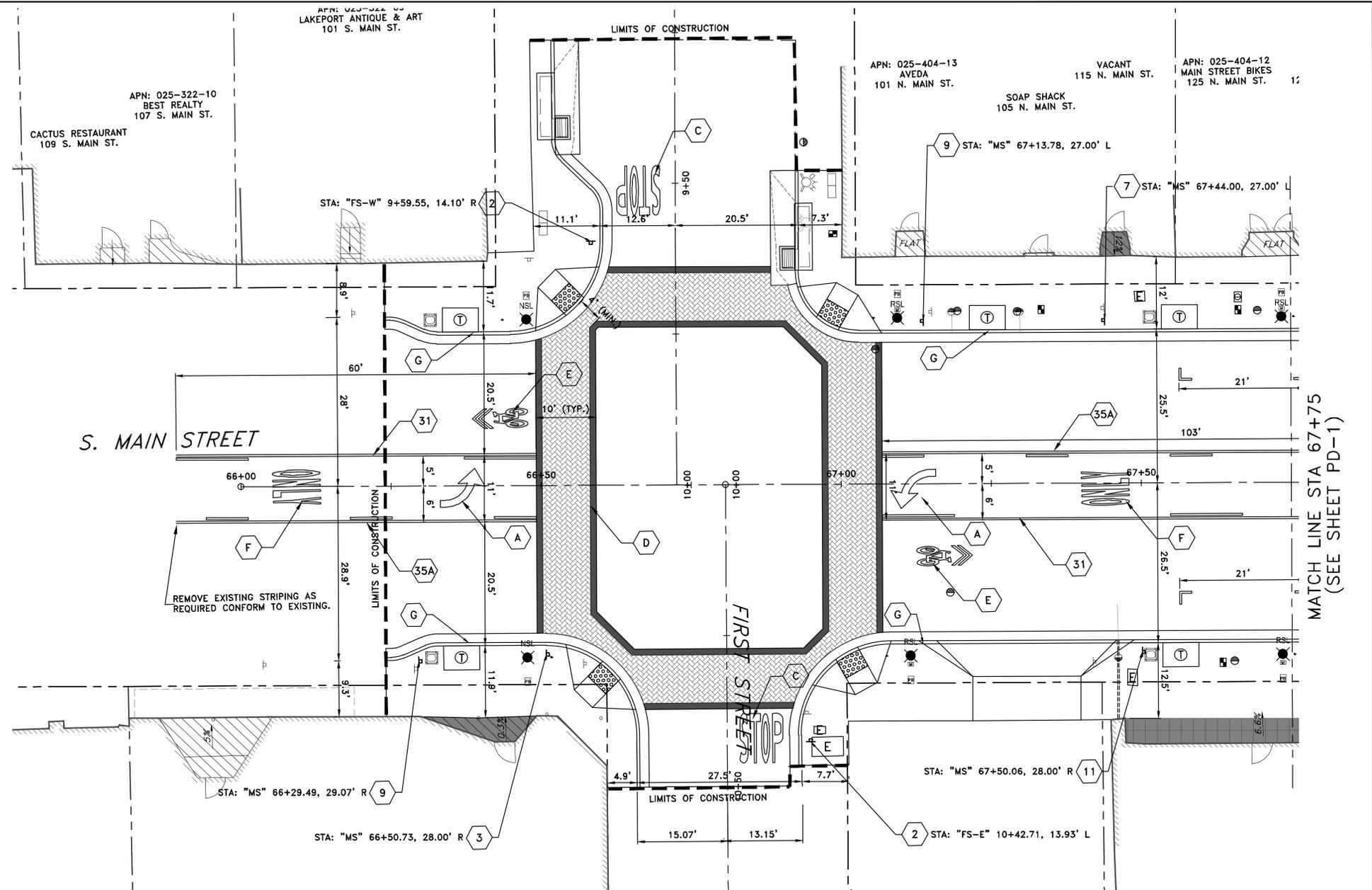
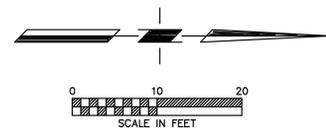
1. ALL SIGN CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF LAKEPORT STANDARD PLANS 207.
2. ALL STRIPING SHALL BE IN CONFORMANCE WITH CALTRANS STANDARDS PLANS 2010

SIGN KEY NOTES:

- 1 INSTALL STOP SIGN (R1-1)
- 2 INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
- 3 INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
- 4 INSTALL NO U-TURN SIGN (R8-3A)
- 5 INSTALL 30 MPH SIGN (R2-1)
- 6 INSTALL 20 MINUTE PARKING SIGN (R32 CA)
- 7 INSTALL 2 HOUR PARKING SIGN (R32 CA)
- 8 INSTALL LTA BUS STOP SIGN
- 9 INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
- 10 INSTALL NO PARKING SIGN (R26 CA)
- 11 INSTALL BICYCLE MAY USE FULL LANE SIGN (R4-11)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS

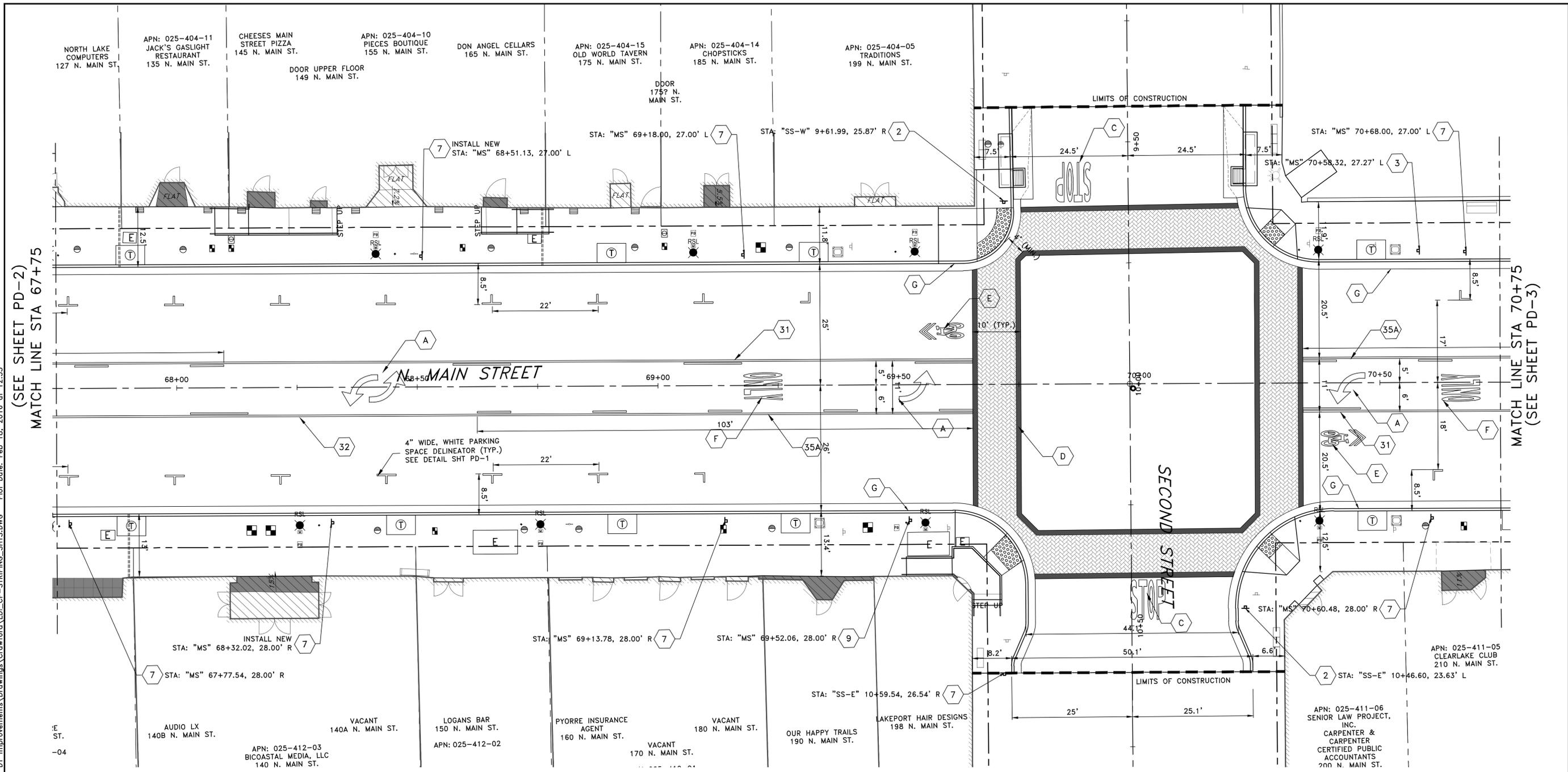


MATCH LINE STA 67+75 (SEE SHEET PD-1)

BID SET

| | | | |
|---|--|---|--|
| PROJECT ENGINEER: CATHY A. MCKEON LICENSE: NO. 51026 EXP.: 9-30-17 VERIFY SCALE BAR REPRESENTS THREE INCHES ON ORIGINAL | | Geotechnical Engineering, Design and Construction Services 100 N. Pine Street Ukiah, CA 95482 RAU AND ASSOCIATES INC. CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482 | LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II N. MAIN STREET LAKEPORT, CA. SCALE: 1"=10' APPROVED BY: _____ DATE: FEB. 2016 REVIEWED BY: CAM PAVEMENT DELINEATION AND SIGN PLAN STA: 64+75 TO STA: 67+75 CITY OF LAKEPORT DRAWING NUMBER PD-1 of 70 SHTS |
|---|--|---|--|

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-EX_TOPO.dwg; LDI_CX-SAVINGS_BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg; Plot Date: Feb. 18, 2016 at 12:33
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crowford\LDI_CP-STRIPING_SHTS.DWG



(SEE SHEET PD-2)
 MATCH LINE STA 67+75

MATCH LINE STA 70+75
 (SEE SHEET PD-3)

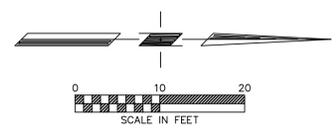
BID SET

SIGN KEY NOTES:

- 1 INSTALL STOP SIGN (R1-1)
- 2 INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
- 3 INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
- 4 INSTALL NO U-TURN SIGN (R8-3A)
- 5 INSTALL 30 MPH SIGN (R2-1)
- 6 INSTALL 20 MINUTE PARKING SIGN (R32 CA)
- 7 INSTALL 2 HOUR PARKING SIGN (R32 CA)
- 8 INSTALL LTA BUS STOP SIGN
- 9 INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
- 10 INSTALL NO PARKING SIGN (R26 CA)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS



PROJECT ENGINEER: CATHY A. MCKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL

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 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

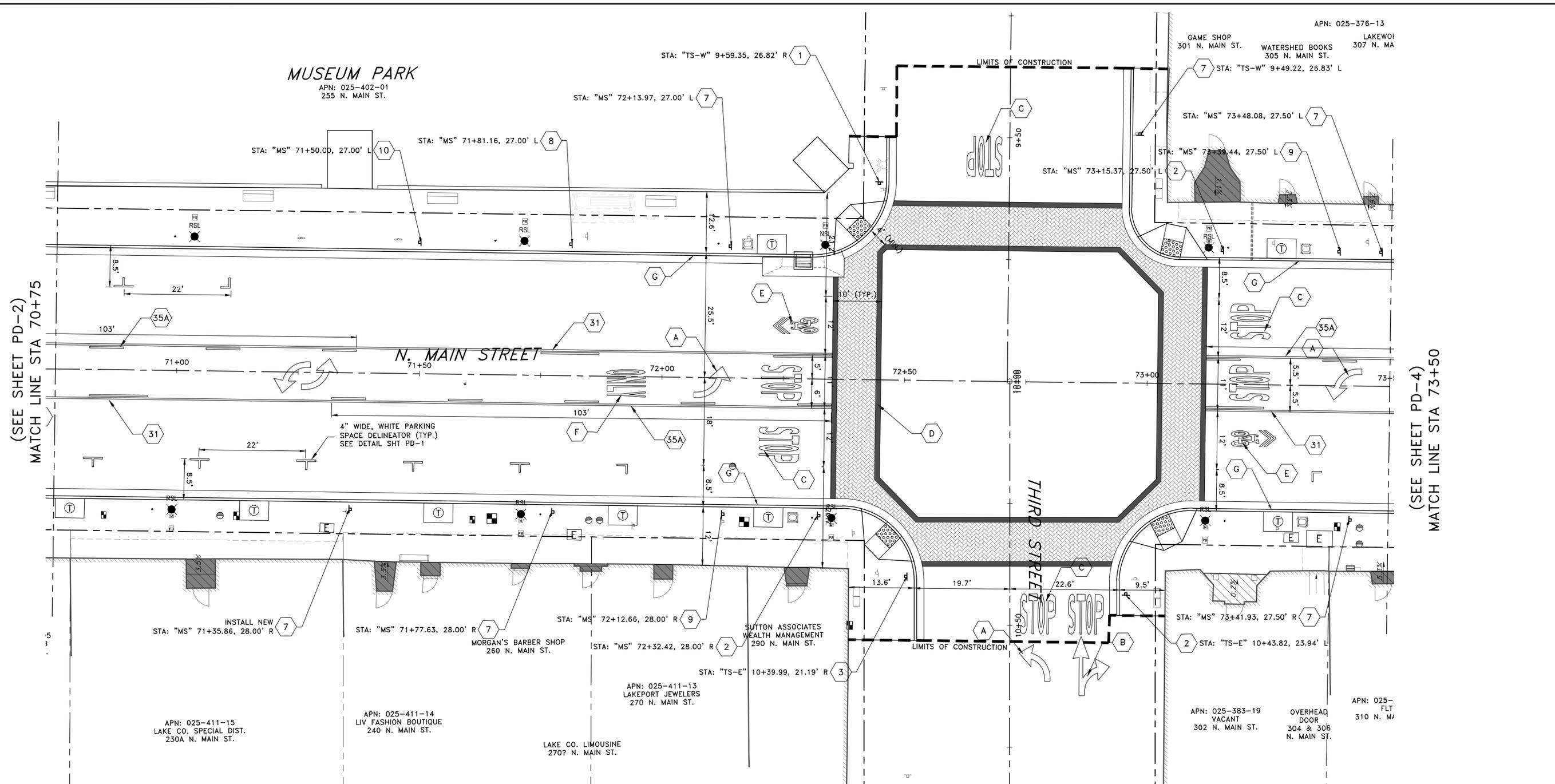
LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' APPROVED BY: _____ DRAWN BY: MAW
 DATE: FEB. 2016 REVIEWED BY: CAM

PAVEMENT DELINEATION AND SIGN PLAN
 STA: 67+75 TO STA: 70+75

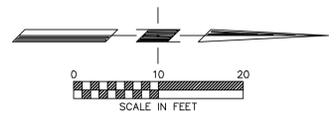
CITY OF LAKEPORT DRAWING NUMBER PD-2 of 60 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW.dwg; LDI_CX-EX_TOPO.dwg; LDI_CX-SAVINGS BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crowford\LDI_CP-STRIPING_SHTS.DWG Plot Date: Feb. 18, 2016 at 12:33



- SIGN KEY NOTES:**
- 1 INSTALL STOP SIGN (R1-1)
 - 2 INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
 - 3 INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
 - 4 INSTALL NO U-TURN SIGN (R8-3A)
 - 5 INSTALL 30 MPH SIGN (R2-1)
 - 6 INSTALL 20 MINUTE PARKING SIGN (R32 CA)
 - 7 INSTALL 2 HOUR PARKING SIGN (R32 CA)
 - 8 INSTALL LTA BUS STOP SIGN
 - 9 INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
 - 10 INSTALL NO PARKING SIGN (R26 CA)

- DELINEATION KEY NOTES:**
- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
 - 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
 - 35A INDICATES CHANNELIZING LINE DETAIL 38C PER CALTRANS STD. PLAN A20B
 - A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
 - B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
 - C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
 - D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
 - E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
 - F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
 - G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL



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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.

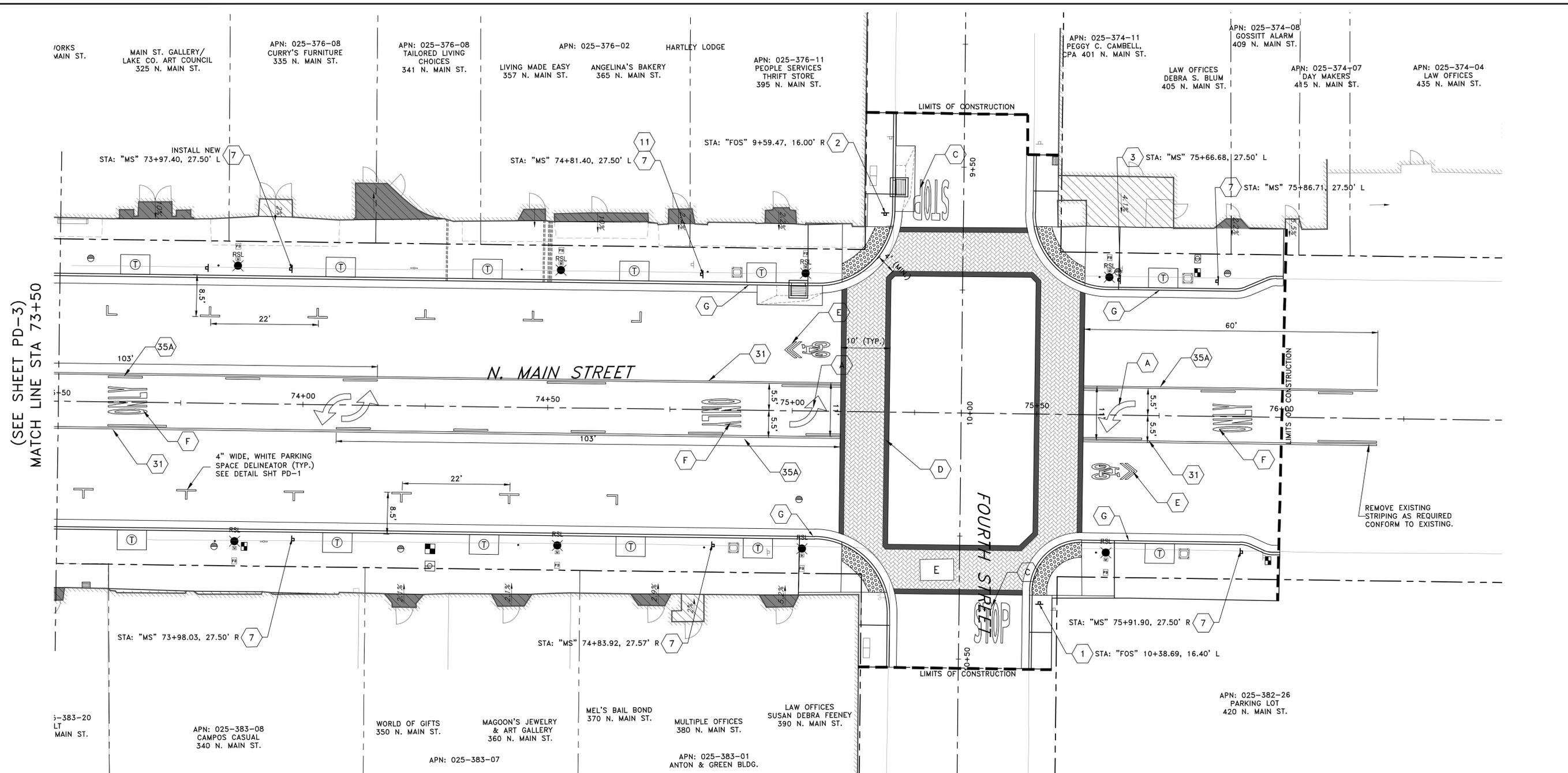
SCALE: 1"=10' APPROVED BY: DRAWN BY: MAW
 DATE: FEB. 2016 REVIEWED BY: CAM

PAVEMENT DELINEATION AND SIGN PLAN
 STA: 70+75 TO STA: 73+50

CITY OF LAKEPORT DRAWING NUMBER PD-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-SAVINGS_BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg; Plot Date: Feb. 18, 2016 at 12:33
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(SEE SHEET PD-3)
 MATCH LINE STA 73+50

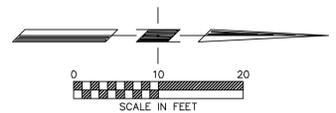
BID SET

SIGN KEY NOTES:

- 1 INSTALL STOP SIGN (R1-1)
- 2 INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
- 3 INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
- 4 INSTALL NO U-TURN SIGN (R8-3A)
- 5 INSTALL 30 MPH SIGN (R2-1)
- 6 INSTALL 20 MINUTE PARKING SIGN (R32 CA)
- 7 INSTALL 2 HOUR PARKING SIGN (R32 CA)
- 8 INSTALL LTA BUS STOP SIGN
- 9 INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
- 10 INSTALL NO PARKING SIGN (R26 CA)
- 11 INSTALL BICYCLE MAY USE FULL LANE SIGN (R4-11)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS



PROJECT ENGINEER: CATHY A. MCKEON
 LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL



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 Ukiah, CA 95482

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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' APPROVED BY: DRAWN BY: MAW
 DATE: FEB. 2106 REVIEWED BY: CAM

PAVEMENT DELINEATION AND SIGN PLAN
 STA: 73+50 TO STA: 76+00

CITY OF LAKEPORT

DRAWING NUMBER
 PD-4 of 70 SHTS

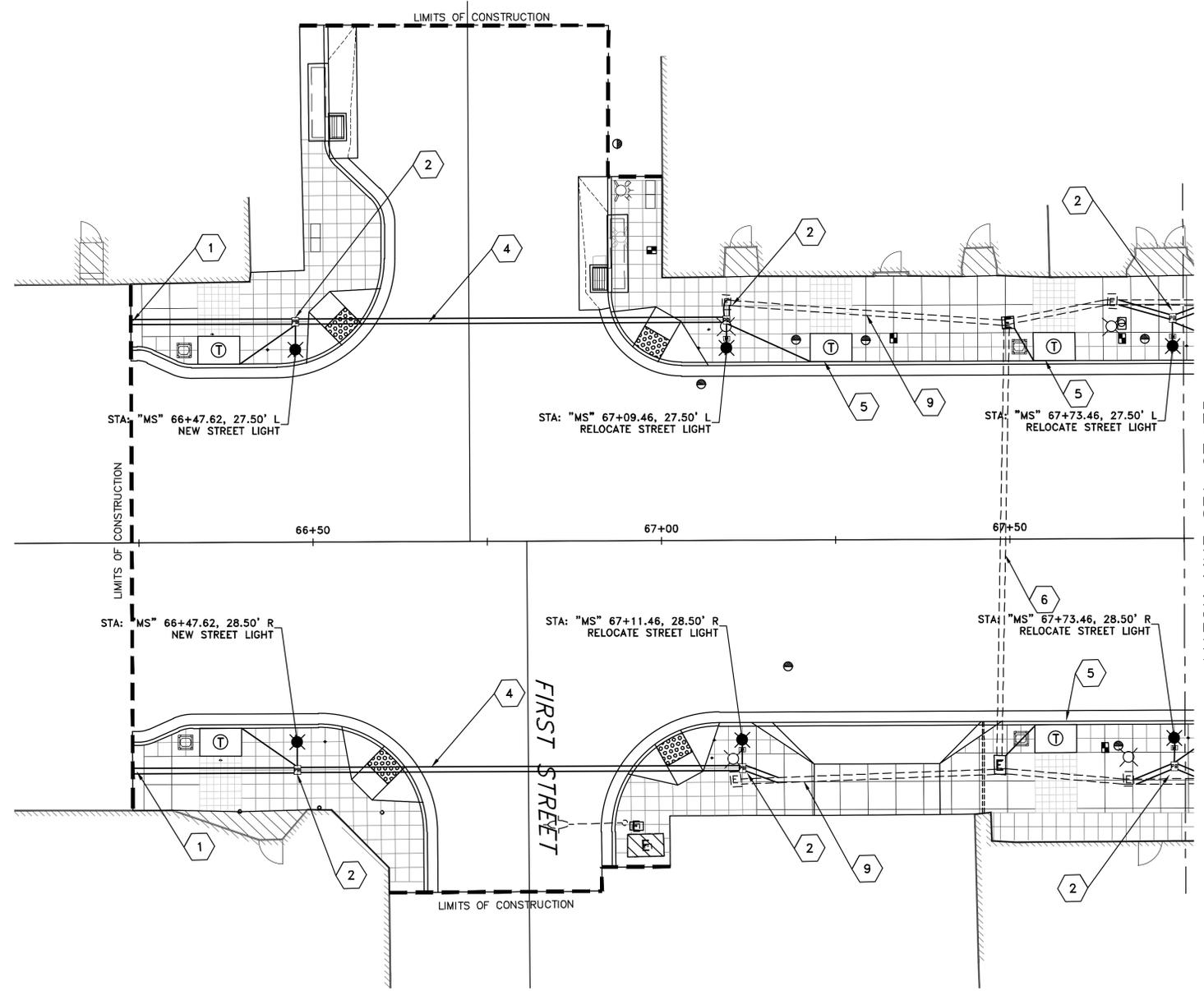
Xrefs: LD-BX-TTL BLOCK.dwg; LD-CX-BASE_NoBulbouts.dwg; LD-RX-EX_TOPO.dwg; LD-CX-ROW_APN.dwg; Seal CA Signed.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb. 18, 2016 at 12:33

KEYNOTES

1. EXTEND TRENCH AND (3) 2" CONDUITS WITH PULL ROPES TO EDGE OF NEW CONSTRUCTION, CAP AND SEAL END OF CONDUIT. ONE CONDUIT SHALL HAVE #12 CU WIRE IN LIEU OF PULL ROPE TO AID IN LOCATING CONDUIT IN THE FUTURE.
2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
- 3.
4. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.
5. DISCONNECT AND REMOVE WIRING FROM THE STREET CROSSING, INSTALL NEW PULL ROPE FOR EACH CONDUIT PRESENT.
6. DISCONNECT AND REMOVE EXISTING WIRING FROM THE STREET CROSSING, INSTALL NEW PULL ROPE FOR EACH CONDUIT PRESENT.
- 7.
- 8.
9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

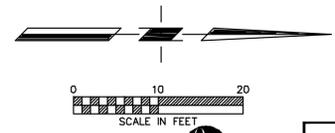
-  STREET LIGHT
-  EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
-  EXISTING CONDUIT BANK
-  NEW CONDUIT BANK



MATCH LINE STA 67+75
 (SEE SHEET E-2)

NOTES

1. INSTALL 3/4" x 8' COPPER CLAD STEEL GROUND ROD IN THE LIGHT POLE PULL BOXES AT THE SOUTH EAST AND SOUTH WEST CORNERS OF 1ST STREET



MARS BURNSIDE
 ELECTRICAL ENGINEERING
 11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
 mars@mbengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. MCKEON

VERIFY SCALE

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
 MARS BURNSIDE
 7859
 EXPIRES 30SEP16
 ELECTRICAL
 STATE OF CALIFORNIA
 FEB. 18, 2016

Crawford & Associates, Inc.
 Geotechnical Engineering, Design and Construction Services
 100 N. Pine Street
 Ukiah, CA 95482

RAU AND ASSOCIATES INC.
 CIVIL ENGINEERS · LAND SURVEYORS
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
 N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' APPROVED BY: DRAWN BY: LM
 DATE: JUNE 2015 REVIEWED BY: MB

ELECTRICAL LAYOUT PLAN
 STA: 66+24 TO STA: 67+75

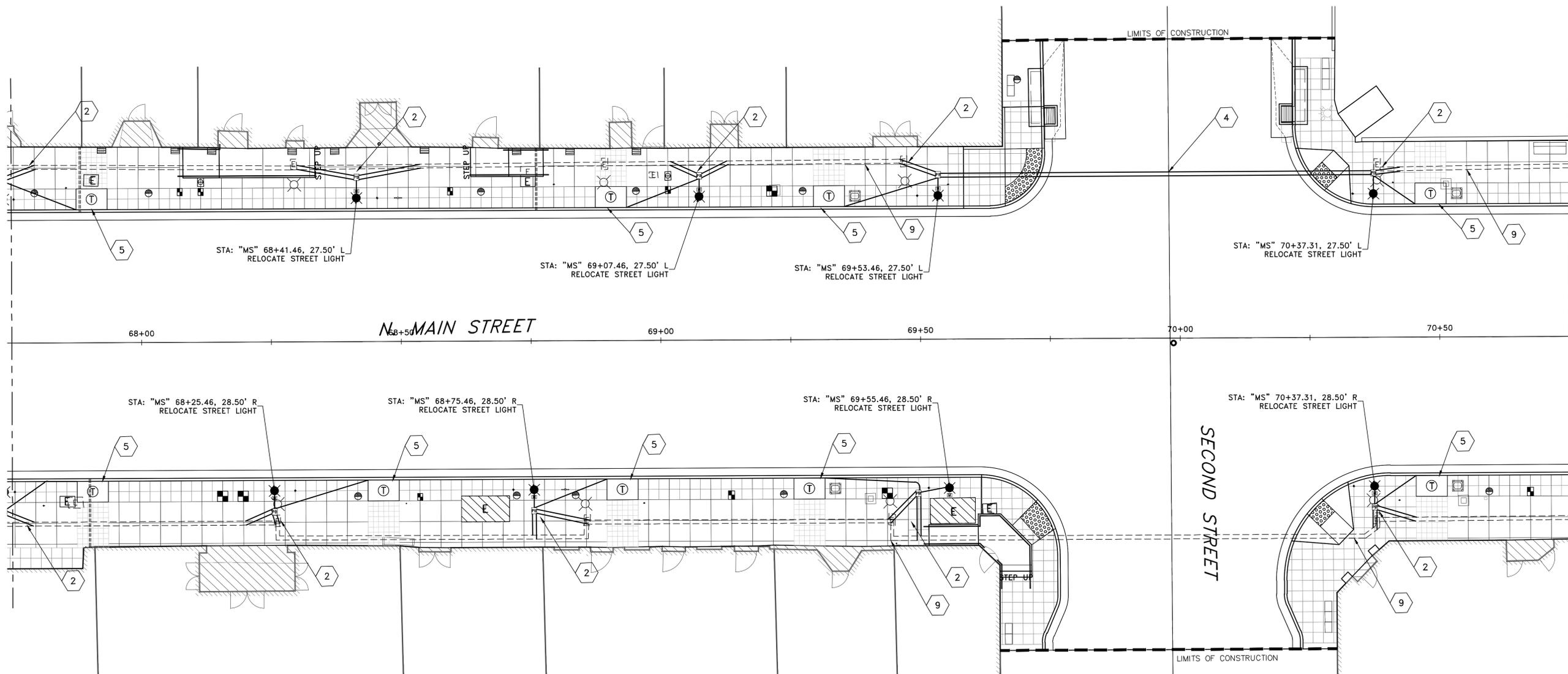
CITY OF LAKEPORT DRAWING NUMBER E-1 of 70 SHTS

BID SET

Xrefs: LD-BX-TTL_BLOCK.dwg; LD-CX-BASE_NoBulbouts.dwg; LD-RX-EX_TOPO.dwg; LD-CX-ROW_APN.dwg; Seal CA Signed.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb 18, 2016 at 12:33

(SEE SHEET E-1)
 MATCH LINE STA 67+75

MATCH LINE STA 70+75
 (SEE SHEET E-3)



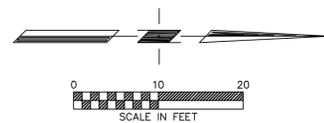
BID SET

KEYNOTES

- 1.
2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
- 3.
4. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.
- 6.
- 7.
- 8.
9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK



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 ELECTRICAL ENGINEERING
 11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
 mars@mbengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE

 BAR REPRESENTS THREE INCHES ON ORIGINAL

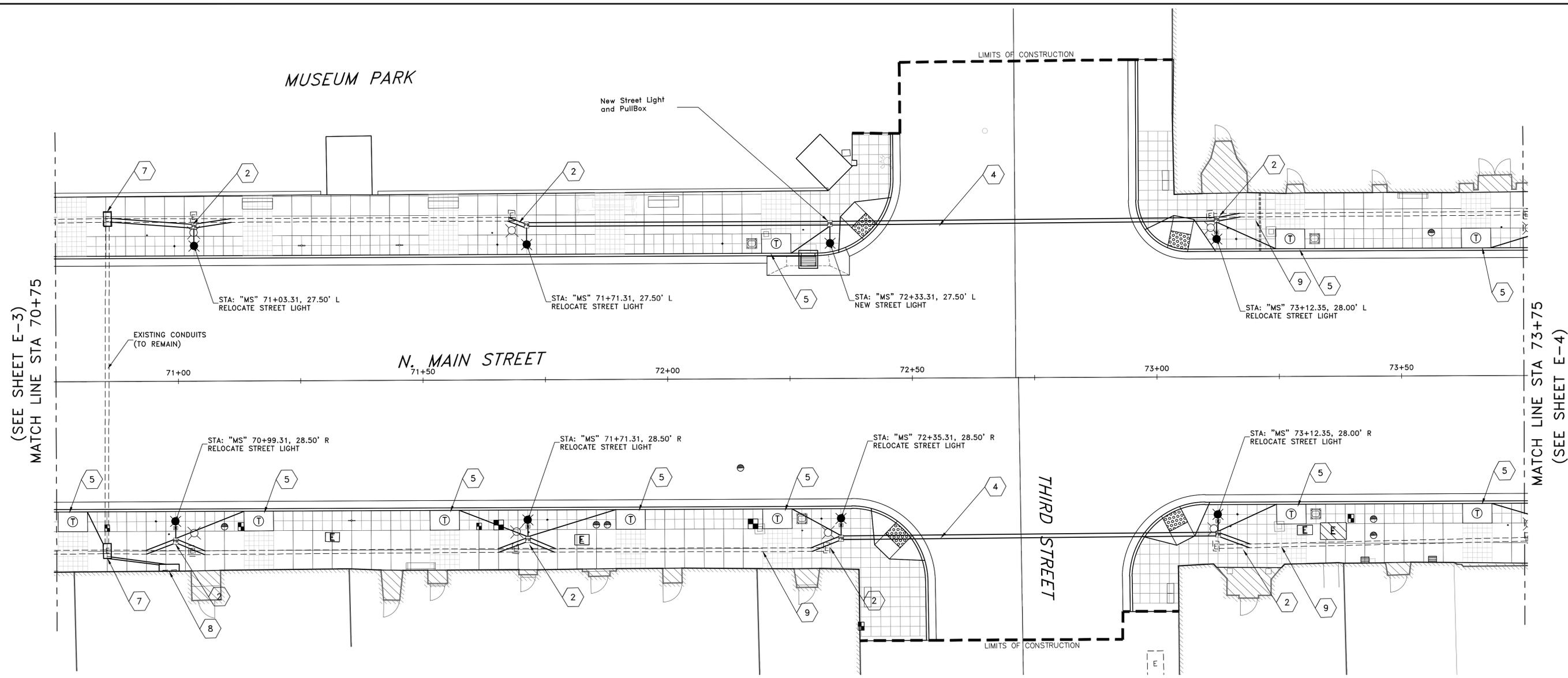
REGISTERED PROFESSIONAL ENGINEER
 MARS BURNSIDE
 7859
 EXPIRES 30SEP16
 ELECTRICAL
 STATE OF CALIFORNIA
 FEB. 18, 2016

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| | | | |
|---|--|---------------|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II | | LAKEPORT, CA. | |
| N. MAIN STREET | | LAKEPORT, CA. | |
| SCALE: 1"=10' | APPROVED BY: | DRAWN BY: MB | REVIEWED BY: LM |
| DATE: JUNE 2014 | ELECTRICAL LAYOUT PLAN STA: 67+75 TO STA: 70+75 | | |
| CITY OF LAKEPORT | | | DRAWING NUMBER E-2 of 70 SHTS |

Xrefs: LD-BX-TTL BLOCK.dwg; LD-CX-BASE_NoBulbouts.dwg; LD-CX-EX_TOPO.dwg; LD-CX-ROW_APN.dwg; Seal CA Signed.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb 18, 2016 at 12:34



(SEE SHEET E-3)
 MATCH LINE STA 70+75

MATCH LINE STA 73+75
 (SEE SHEET E-4)

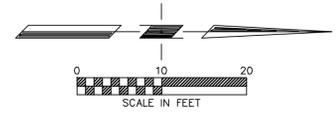
BID SET

KEYNOTES

- 1.
2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
- 3.
- 4.
5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.
- 6.
7. REMOVE EXISTING PULL BOX, PROVIDE NEW CHRISTY N36 OR EQUIVALENT, INSTALL PER DETAIL E-05.
8. REMOVE EXISTING SERVICE EQUIPMENT, INSTALL NEW EQUIPMENT PER DETAIL E-08.
9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- ⊗ EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK




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 ELECTRICAL ENGINEERING
 11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
 mars@mbengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE

 BAR REPRESENTS THREE INCHES ON ORIGINAL

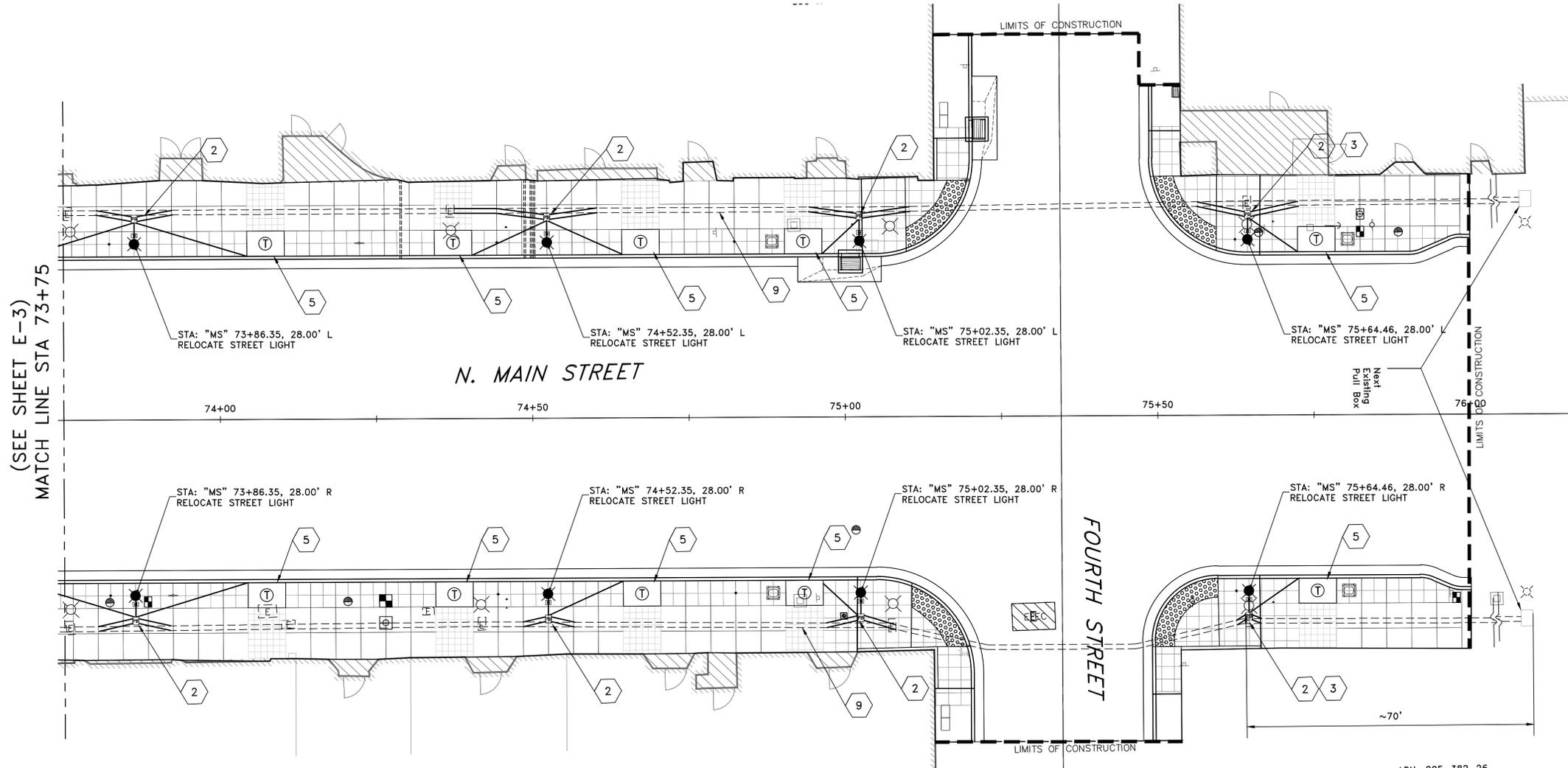
REGISTERED PROFESSIONAL ENGINEER
 MARS BURNSIDE
 7859
 EXPIRES 30SEP16
 ELECTRICAL
 STATE OF CALIFORNIA
 FEB. 18, 2016


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 Ukiah, CA 95482

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 CIVIL ENGINEERS · LAND SURVEYORS
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

| | | | |
|--|--------------|---------------|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II | | LAKEPORT, CA. | |
| N. MAIN STREET | | LAKEPORT, CA. | |
| SCALE: 1"=10' | APPROVED BY: | DRAWN BY: MB | REVIEWED BY: LM |
| DATE: JUNE 2015 | | | |
| ELECTRICAL LAYOUT PLAN STA: 70+75 TO STA: 73+50 | | | |
| CITY OF LAKEPORT | | | DRAWING NUMBER E-3 of 70 SHTS |

Xrefs: LD-BX-TTL BLOCK.dwg; LD-CX-BASE_NoBulbouts.dwg; LD-CX-EX_TOPO.dwg; LD-CX-ROW_APN.dwg; Seal CA Signed.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb 18, 2016 at 12:34



KEYNOTES

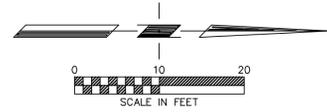
- 1.
2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
3. SPLICE NEW STREET LIGHT WIRE TO THE EXISTING WIRE RUNNING NORTH OF THE NEW PULL BOXES.
- 4.
5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.
- 6.
- 7.
- 8.
9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- ⊗ EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- - - - - EXISTING CONDUIT BANK
- NEW CONDUIT BANK

NOTES

1. INSTALL 3/4" x 8" COPPER CLAD STEEL GROUND ROD IN THE LIGHT POLE PULL BOXES AT THE SOUTH EAST AND SOUTH WEST CORNERS OF 6TH STREET
2. DISCONNECT AND REMOVE WIRING FROM THE STREET CROSSING ACROSS N. MAIN STREET BETWEEN 4TH AND 5TH STREETS, NORTH OF THE END OF PROJECT, INSTALL NEW PULL ROPE FOR EACH CONDUIT.




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 ELECTRICAL ENGINEERING
 11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
 mars@mbengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE

 BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
 MARS BURNSIDE
 7859
 EXPIRES 30SEP16
 ELECTRICAL
 STATE OF CALIFORNIA
 FEB. 18, 2016

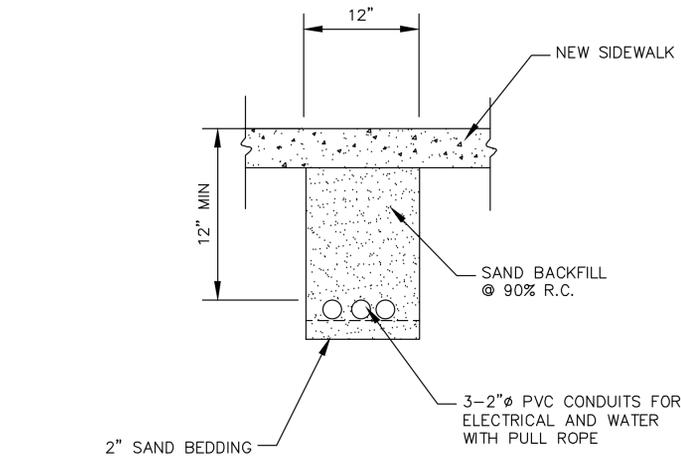

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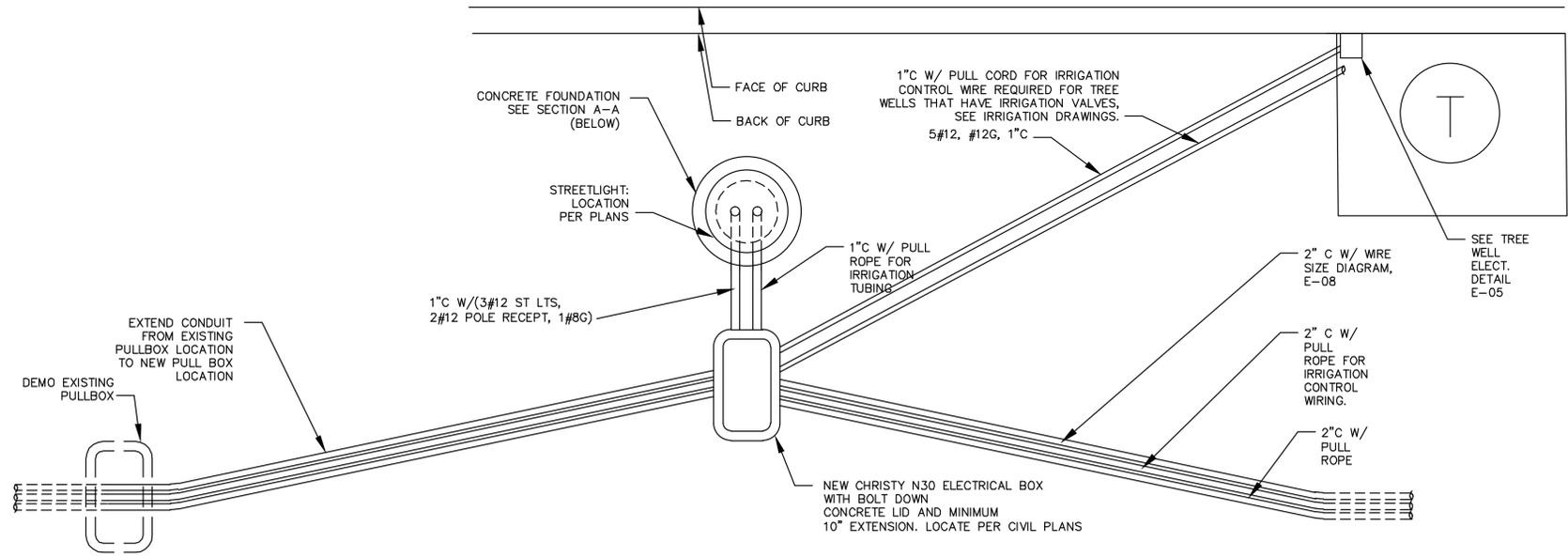
| | | | |
|---|--|---------------|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II | | LAKEPORT, CA. | |
| N. MAIN STREET | | LAKEPORT, CA. | |
| SCALE: 1"=10' | APPROVED BY: | DRAWN BY: MB | REVIEWED BY: LM |
| DATE: JUNE 2015 | ELECTRICAL LAYOUT PLAN STA: 73+50 TO STA: 76+00 | | |
| CITY OF LAKEPORT | | | DRAWING NUMBER E-4 of 70 SHTS |

BID SET

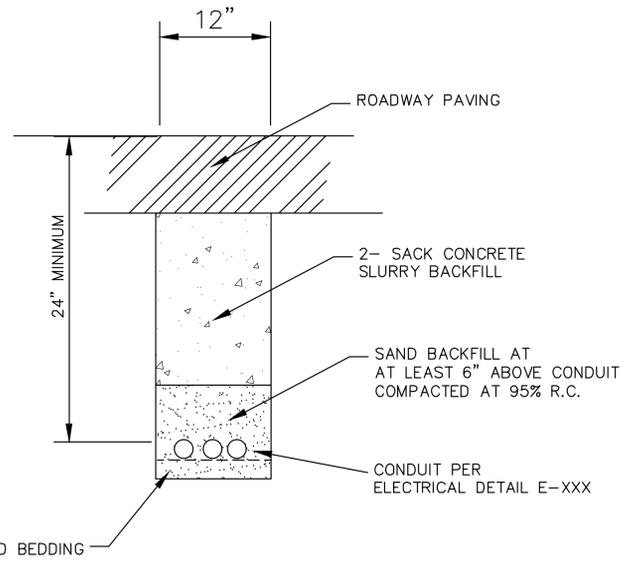
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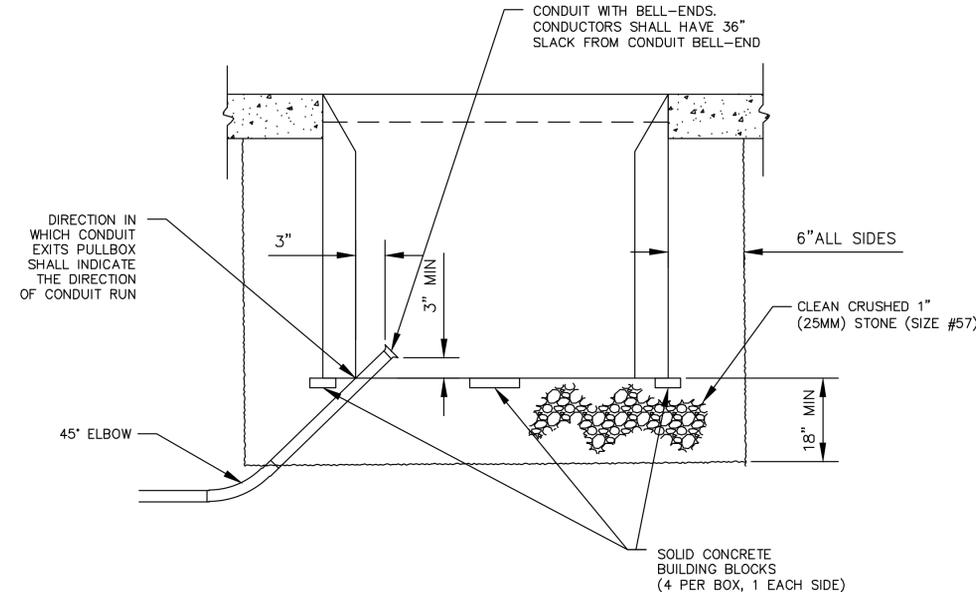
TRENCH DETAIL-SIDEWALK
NTS



LLIGHT POLE AND TREE WELL CONDUIT
NTS



TRENCH DETAIL-STREET
NTS



PULL BOX DETAIL
NTS

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VERIFY SCALE
0 1/2 1 2 3
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
N. MAIN STREET LAKEPORT, CA.

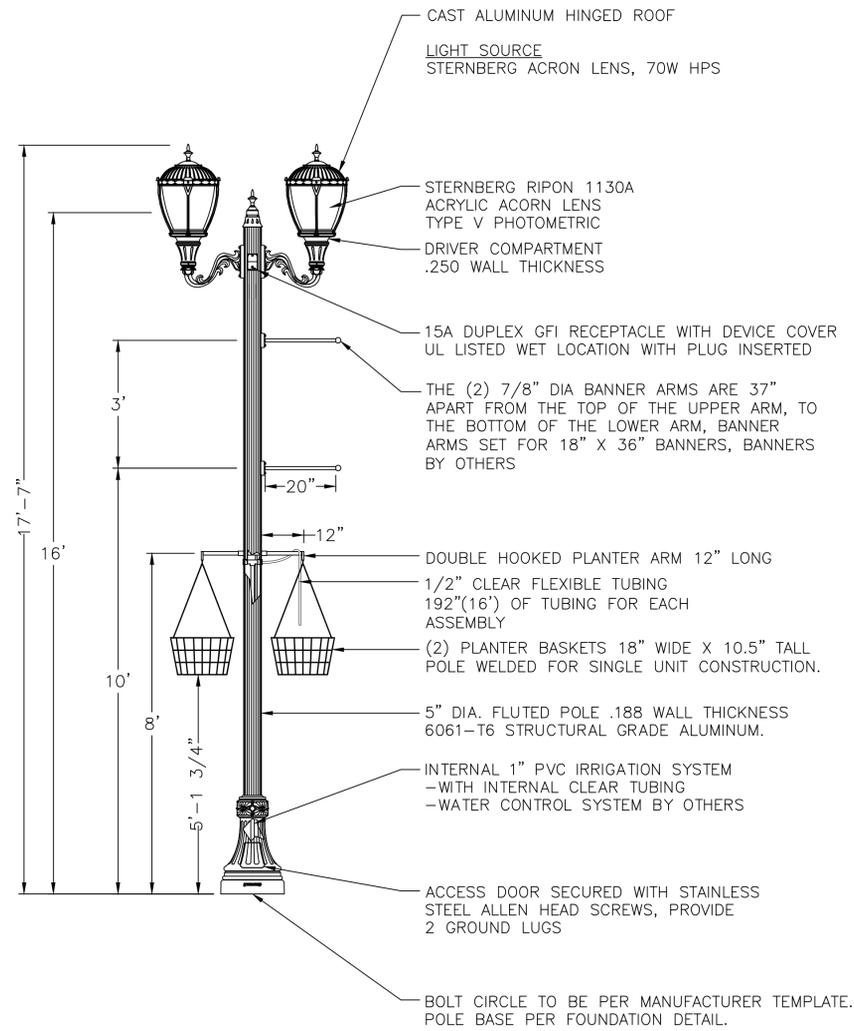
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DATE: FEB 2011 REVIEWED BY: MB

ELECTRICAL DETAILS 1

CITY OF LAKEPORT DRAWING NUMBER
E-5 of 70 SHTS

BID SET

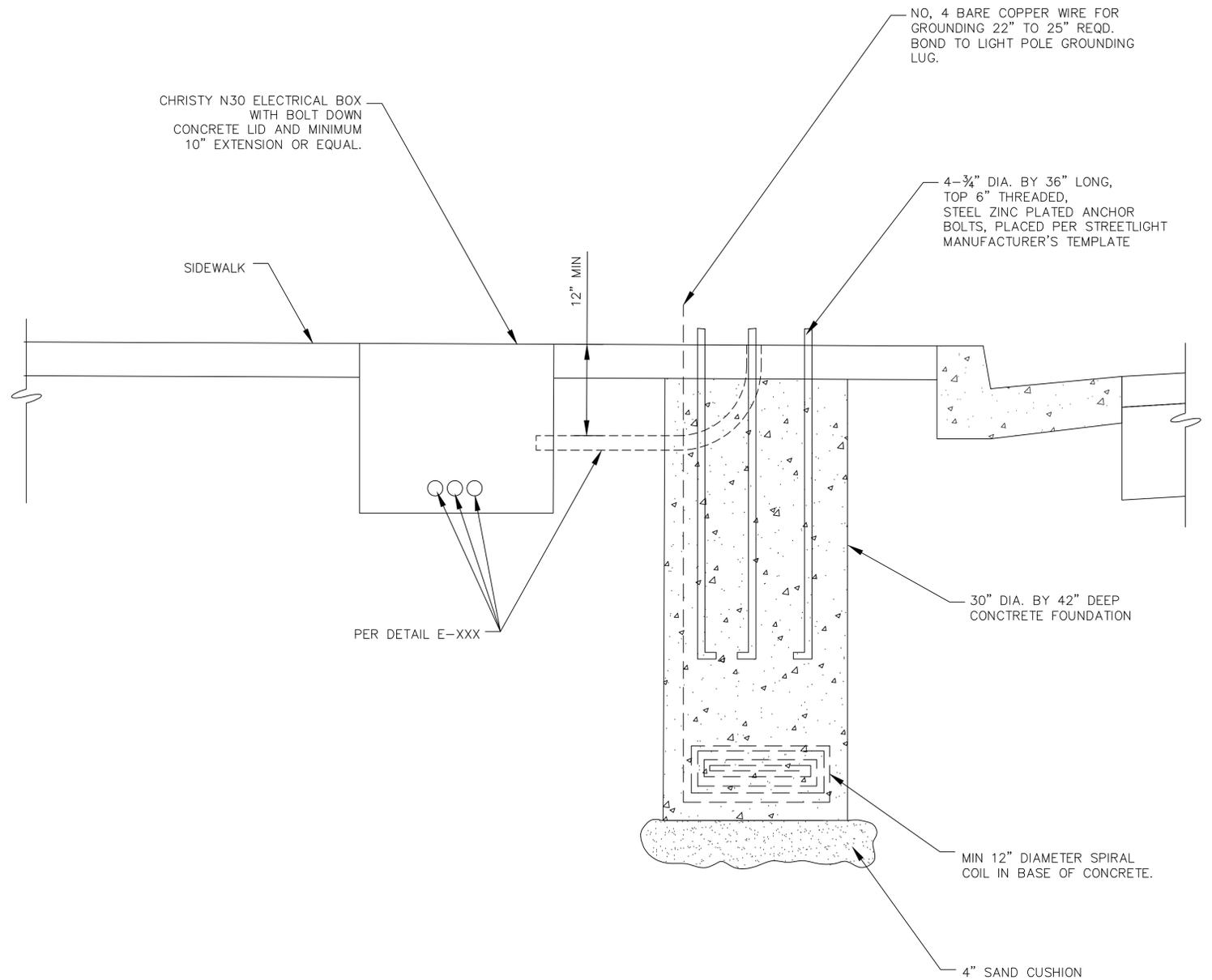
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NEW LIGHT POLE DETAIL
NTS

NOTES:

- LUMINAIRES AND BANNER ARMS SHALL BE AT RIGHT ANGLES TO THE STREET WITH THE BANNER ARMS ON THE STREET SIDE. THE PLANTER ARMS, ALTHOUGH SHOWN IN THE SAME PLANE AS THE LUMINAIRES IS TO BE AT RIGHT ANGLES TO THE LUMINAIRES SO THAT THEY ARE PARALLEL TO THE STREET.
- STREETLIGHTS SHALL BE STERNBERG 2-1130A/55LPM/6214FP5/70HPS-MT/VG, AND AS SHOWN.
- FOR NEW AND RELOCATED POLES, BASE MUST SIT DIRECTLY ON THE CONCRETE-NO BOLTS ABOVE AND BELOW THE BASE CASTING. MANUFACTURER TO SUPPLY LEVELING WASHERS IF CONCRETE FOUNDATION IS OFF BY A LITTLE BIT.
- ON RELOCATED POLES REPLACE RECPT COVER W/ COVER UL LISTED WP W/ PLUG INSERTED.



POLE BASE DETAIL
NTS

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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: NTS APPROVED BY: DRAWN BY: KK
DATE: FEB 2011 REVIEWED BY: MB

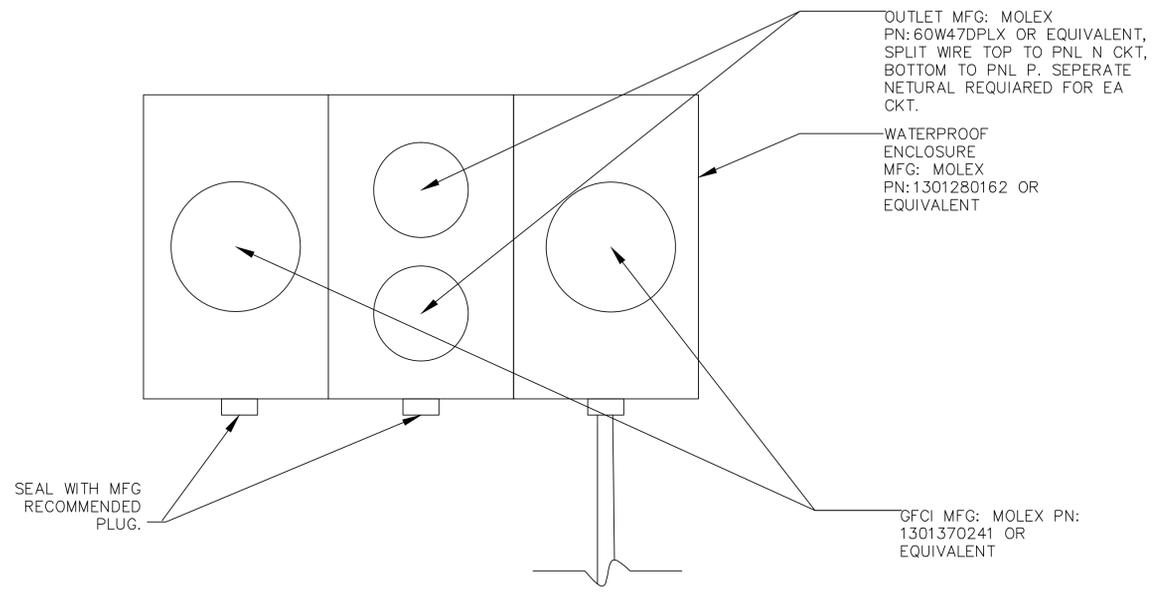
ELECTRICAL DETAILS 2

CITY OF LAKEPORT

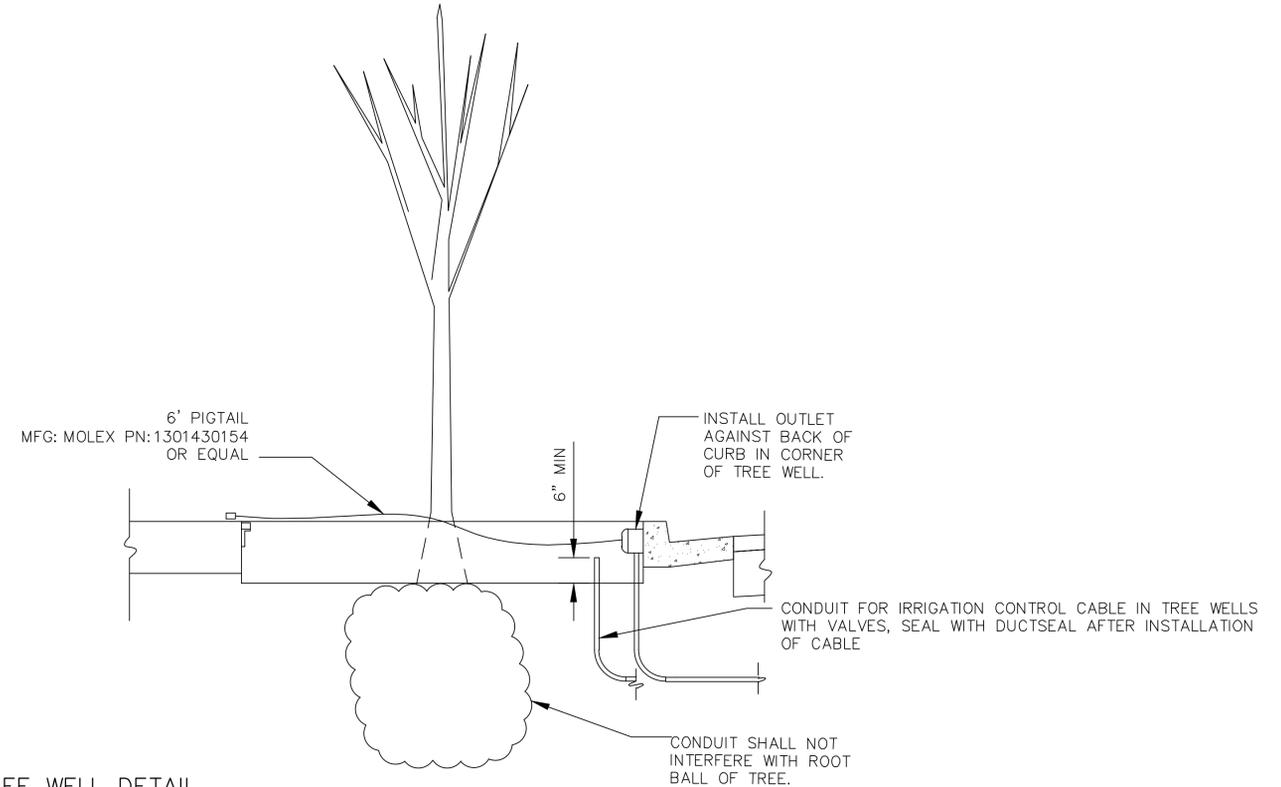
DRAWING NUMBER
E-6 of 70 SHTS

BID SET

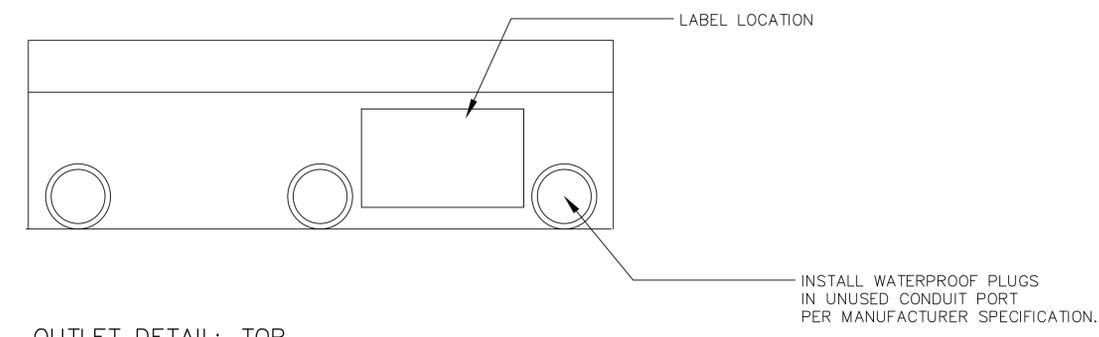
Xrefs: LD1-BX-TL_BLOCK.dwg; Seal CA_Signed.dwg
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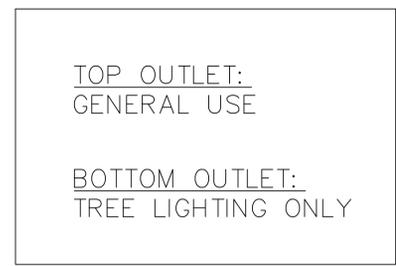
OUTLET DETAIL: FRONT
NTS



TREE WELL DETAIL
NTS



OUTLET DETAIL: TOP
NTS



LABEL DETAIL
NTS

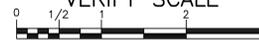
LABEL NOTES:

1. LABEL SHALL BE ABLE TO SUSTAIN OCCASIONAL DIRECT SPRAY.
2. LABEL SHALL BE WEATHER, HEAT AND UV RESISTANT.
3. LABEL SHALL USE ADHESIVE TO AFFIX, SHALL NOT RIVET OR SCREW TO ENCLOSURE.
4. TEXT SHALL BE $\frac{3}{16}$ " MIN.
5. LABEL SHALL BE LOCATED SUCH THAT:
 - 5.1. IT IS ON THE TOP OF THE ENCLOSURE AND VISIBLE FROM ABOVE THE TREE WELL.
 - 5.2. LABEL EDGES ARE NOT IMPEDED BY ANY SURFACE FEATURES OF THE ENCLOSURE.
6. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR AFFIXING LABEL.

BID SET


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 mars@bengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

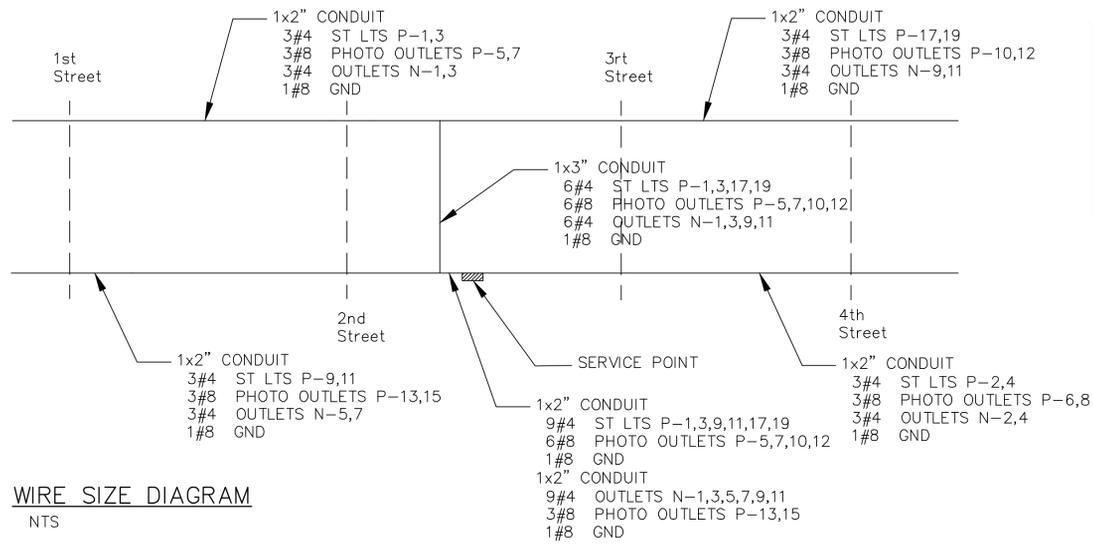
VERIFY SCALE

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 MARS BURNSIDE
 7859
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 STATE OF CALIFORNIA
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| | | | |
|---|----------------------|-----------------|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II | | LAKEPORT, CA. | |
| N. MAIN STREET | | DRAWN BY: KK | |
| SCALE: NTS | APPROVED BY: | REVIEWED BY: MB | |
| DATE: FEB 2011 | ELECTRICAL DETAILS 3 | | |
| CITY OF LAKEPORT | | | DRAWING NUMBER E-7 of 70 SHTS |

Xrefs: LD-BX-TTL BLOCK.dwg; Seal CA Signed.dwg
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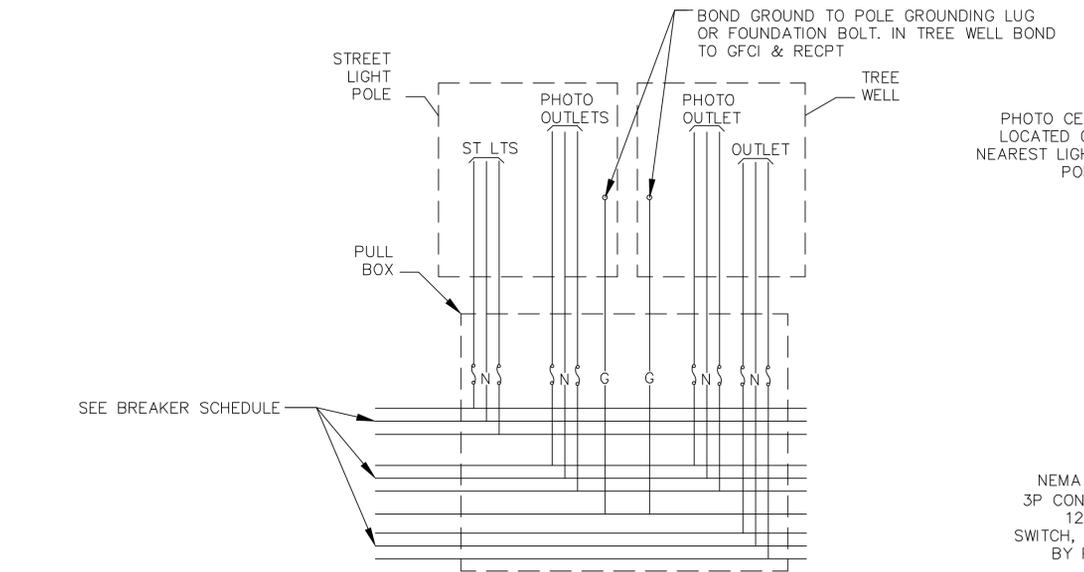


| PANEL P | | | | | | | | | | | | |
|----------------------|--------|------------------|----------------|------|---------------------------------------|--------------|------|------|------------------|------------------------------|--------|----------------------|
| CONNECTION | FEEDER | LOAD SERVED | 200A MLO | | VOLTAGE 240/120 VOLT 1 PHASE, 3 WIRES | | | | MOUNTING SURFACE | SHORT CKT RATING 10 KAIC MIN | FEEDER | CONNECTION |
| | | | KVA | CB | CKT | PHASE | CKT | CB | | | | |
| West, 1st to Service | 3#4 | Street Lights | 2.89 | 30/1 | 1 | A | 2 | 30/1 | 1.61 | | 3#4 | East Service to 4th |
| West, 1st to Service | 3#8 | Christmas Lights | 0.48 | 15/1 | 5 | A | 6 | 15/1 | 0.34 | | 3#8 | East Service to 4th |
| East, 1st to Service | 3#4 | Street Lights | 2.89 | 30/1 | 9 | A | 10 | 15/1 | 0.31 | | 3#8 | West, Service to 4th |
| East, 1st to Service | 3#8 | Christmas Lights | 0.51 | 15/1 | 13 | A | 14 | 15/1 | 0.31 | | | |
| West, Service to 4th | 3#4 | Street Lights | 1.61 | 30/1 | 17 | A | 18 | 30/1 | | | | |
| | | | Current Lights | | 11.5 | KVA x 125% = | 14.3 | KVA | | | | |
| | | | Future Lights | | 9.8 | KVA x 125% = | 12.3 | KVA | | | | |
| | | | Total KVA | | | | 26.6 | KVA | | | | |
| | | | Total Current | | | | 111 | AMPS | | | | |

PANEL P (PHOTO CONTROLLED) BREAKER SCHEDULE
NTS

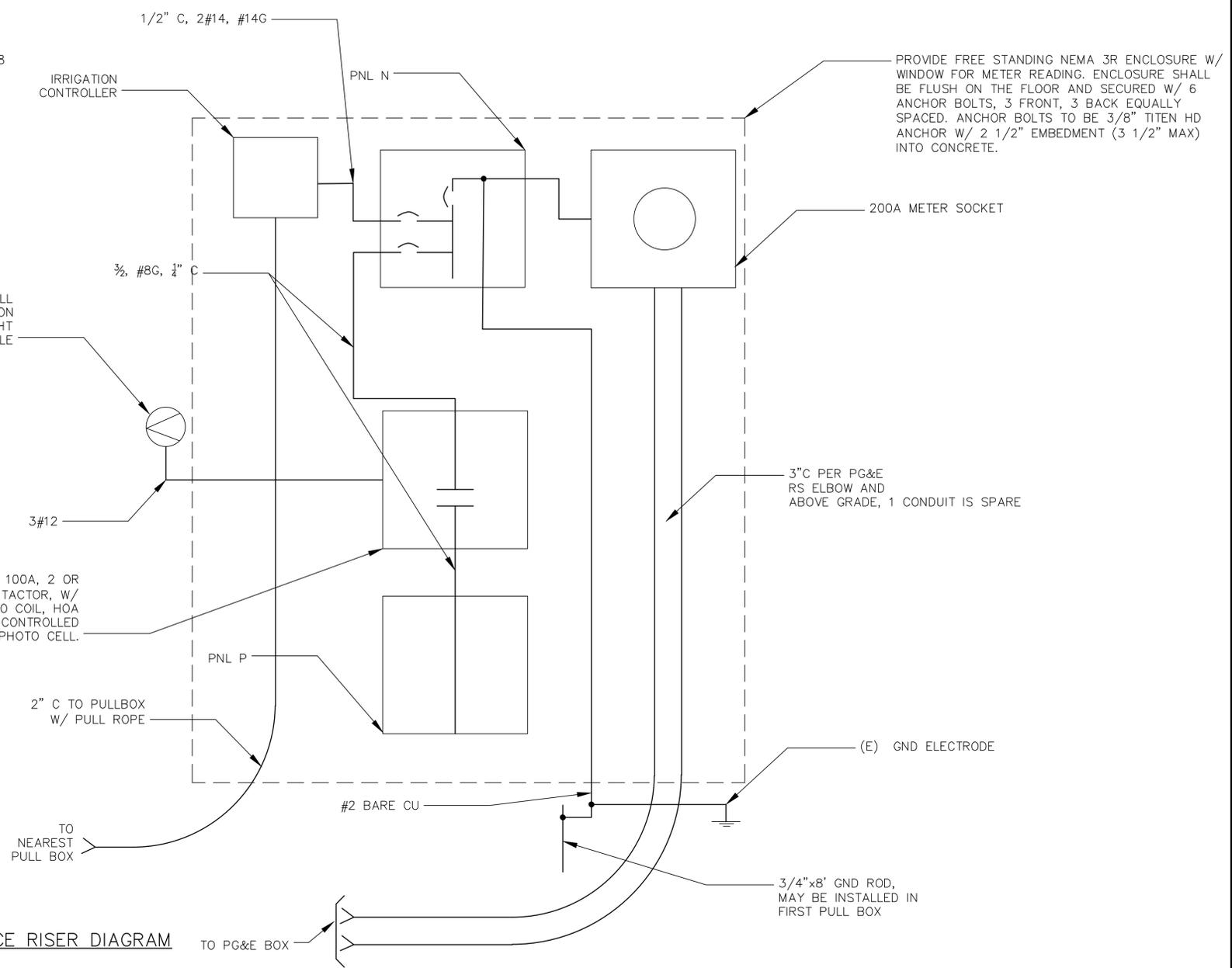
| PANEL N | | | | | | | | | | | | |
|----------------------|--------|----------------|-----------------------------|------|---------------------------------------|--------------|------|-------|------------------|------------------------------|--------|----------------------|
| CONNECTION | FEEDER | LOAD SERVED | 200A MAIN CKT BRK | | VOLTAGE 240/120 VOLT 1 PHASE, 3 WIRES | | | | MOUNTING SURFACE | SHORT CKT RATING 10 KAIC MIN | FEEDER | CONNECTION |
| | | | KVA | CB | CKT | PHASE | CKT | CB | | | | |
| West, 1st to Service | 3#4 | Hd Plate Rcpts | 3.75 | 50/1 | 1 | A | 2 | 50/1 | 4.50 | | 3#4 | East, Service to 4th |
| East, 1st to Service | 3#4 | Hd Plate Rcpts | 3.75 | 50/1 | 5 | A | 6 | 15/1 | 0.18 | | 2#14 | Photo Control |
| West, Service to 4th | 3#4 | Hd Plate Rcpts | 3.75 | 50/1 | 9 | A | 10 | 120/2 | 26.60 | | | Panel p |
| | | | Present Hd Plate Rcpts Load | | 31.7 | KVA x 65% = | 20.6 | KVA | | | | |
| | | | Present Panel P Load | | 14.3 | KVA x 100% = | 14.3 | KVA | | | | |
| | | | Present Total Load | | | | 34.9 | KVA | | | | |
| | | | Present Total Current | | | | 145 | AMPS | | | | |
| | | | Future Total Load | | 31.7 | KVA x 65% = | 20.6 | KVA | | | | |
| | | | Future Panel P Load | | 26.6 | KVA x 100% = | 26.6 | KVA | | | | |
| | | | Future Total Current | | | | 187 | AMPS | | | | |

PANEL N (MANUAL CONTROLLED) BREAKER SCHEDULE
NTS



POLE AND TREE WELL WIRING DIAGRAM
NTS

- LABEL NOTES:**
- LABEL SHALL BE ABLE TO SUSTAIN OCCASIONAL DIRECT SPRAY.
 - LABEL SHALL BE WEATHER, HEAT AND UV RESISTANT.
 - LABEL SHALL USE ADHESIVE TO AFFIX, SHALL NOT RIVET OR SCREW TO ENCLOSURE.
 - TEXT SHALL BE $\frac{3}{16}$ " MIN.
 - LABEL SHALL BE LOCATED SUCH THAT:
 - IT IS ON THE TOP OF THE ENCLOSURE AND VISIBLE FROM ABOVE THE TREE WELL.
 - LABEL EDGES ARE NOT IMPEDED BY ANY SURFACE FEATURES OF THE ENCLOSURE.
 - FOLLOW MANUFACTURERS RECOMMENDATIONS FOR AFFIXING LABEL.



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 mars@burnsideengineering.net
 916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
 0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
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 7859
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.

SCALE: NTS APPROVED BY: DRAWN BY: KK
 DATE: FEB 2011 REVIEWED BY: MB

ELECTRICAL DETAILS 4

CITY OF LAKEPORT DRAWING NUMBER
 E-8 of 70 SHTS

BID SET

Xrefs: LDI_CX_ROW_APN.dwg; LDI_PX_EX_TOPO.dwg; LDI_LX_TBLOCK.dwg; HD-logo-horiz.dwg; LDI-Plant_schedule.dwg; LDI_CX_BASE_NoBulbouts.dwg
 Path: W:\Projects\2013 Projects\3.11 Lakeport Final Design\CAD\LDI_LP-LAYOUT.DWG Plot Date: Feb 11, 2016 at 12:18

SITE FURNITURE AND PLANTING LEGEND

- TREE, 36-INCH BOX, AND TREE GRATE 1
L-6
- HANGING BASKETS, 2 AT EACH STREET LIGHT, SEE PLANTING NOTES
- ROOT BARRIER 1
L-6
- BENCH (NOT IN CONTRACT)
- BICYCLE BOLLARD (NOT IN CONTRACT)
- NEWS RACK (NOT IN CONTRACT), SEE SITE FURNITURE NOTE 3
- TRASH RECEPTACLE (NOT IN CONTRACT)
- CENTER LINE
- EQUAL

SITE FURNITURE NOTES

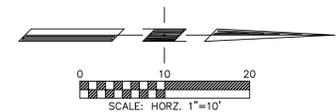
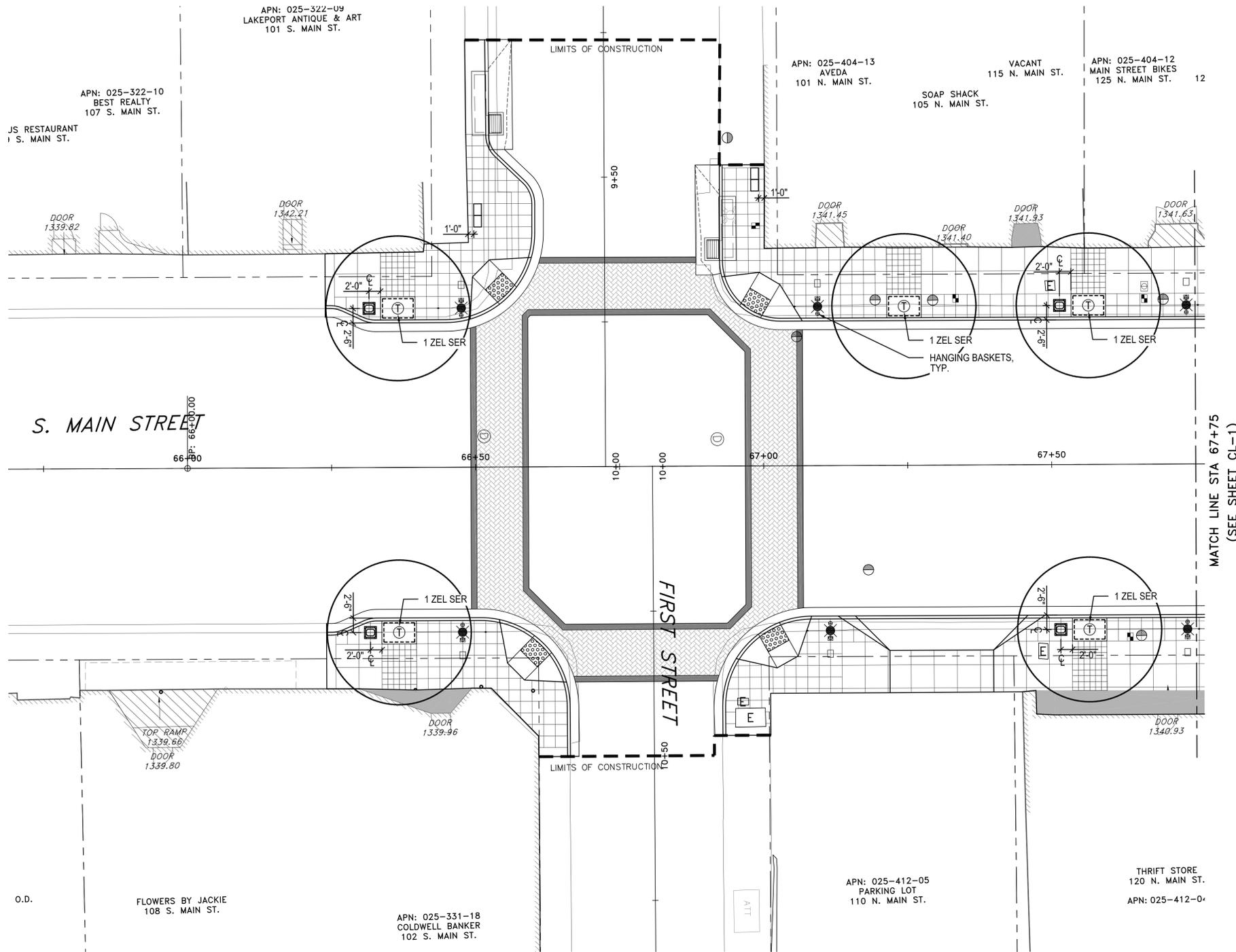
1. ALL SITE FURNITURE IS NOT IN CONTRACT.
2. REFER TO SPECIFICATIONS FOR SITE FURNITURE.
3. NEWS RACK LOCATION: THE DISTANCE FROM EDGE OF PAVEMENT/FACE OF BUILDING TO BACK OF NEWS RACK SHALL BE AS INDICATED ON PLANS. SEE ADJACENT PAVEMENT JOINTS FOR LATERAL LOCATION.

PLANTING NOTES

1. SPECIFICATIONS: SEE PLANTING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. TOPSOIL AND AMENDMENT: ALL PLANTING AREAS SHALL RECEIVE TOPSOIL AMENDED PER SPECIFICATIONS.
3. TREES: ALL TREES SHALL HAVE STRAIGHT TRUNKS OF UNIFORM TAPER, LARGER AT THE BOTTOM. TRUNKS SHALL BE FREE OF DAMAGED BARK, WITH ALL MINOR ABRASIONS AND CUTS SHOWING HEALING TISSUE. SUCKER BASAL GROWTH AND SUCKER LATERAL GROWTH SHALL BE REMOVED AND TREATED TO ELIMINATE RESPROUTING. NORMAL LOWER SIDE BRANCHING SHALL REMAIN. TREES UNABLE TO SUPPORT THEMSELVES WITHOUT STAKING SHALL BE REJECTED.
4. PROTECTION OF PLANTS: CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL IN A HEALTHY GROWING CONDITION PRIOR TO AND DURING PLANTING OPERATIONS.
5. HANGING BASKETS: PROVIDE PLANTER POT SOIL MIX PER SPECS IN ALL HANGING BASKETS. HOLD FINISH GRADE 3-INCHES BELOW RIM OF BASKET. PROVIDE TWO GERANIUM PLANTS AND ONE IVY PLANT IN EACH BASKET.

PLANT SCHEDULE

| QUANTITY | ABBREVIATION | BOTANICAL NAME | COMMON NAME | SIZE | ON-CENTER SPACING | WATER USE |
|----------------|--------------|--|-------------|---------|-------------------|-----------|
| TREES | | | | | | |
| 37 | ZEL SER | ZELKOVA SERRATA 'VILLAGE GREEN' | ZELKOVA | 36" BOX | PER PLAN | MEDIUM |
| ANNUALS | | | | | | |
| 60 | HED HEL | HEDERA HELIX 'NEEDLEPOINT' | ENGLISH IVY | 6" POT | N/A | MEDIUM |
| 120 | PEL HOR | PELARGONIUM X HORTORUM 'ALLURE LIGHT PINK' | GERANIUM | 6" POT | N/A | LOW |



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 BAR REPRESENTS THREE INCHES ON ORIGINAL

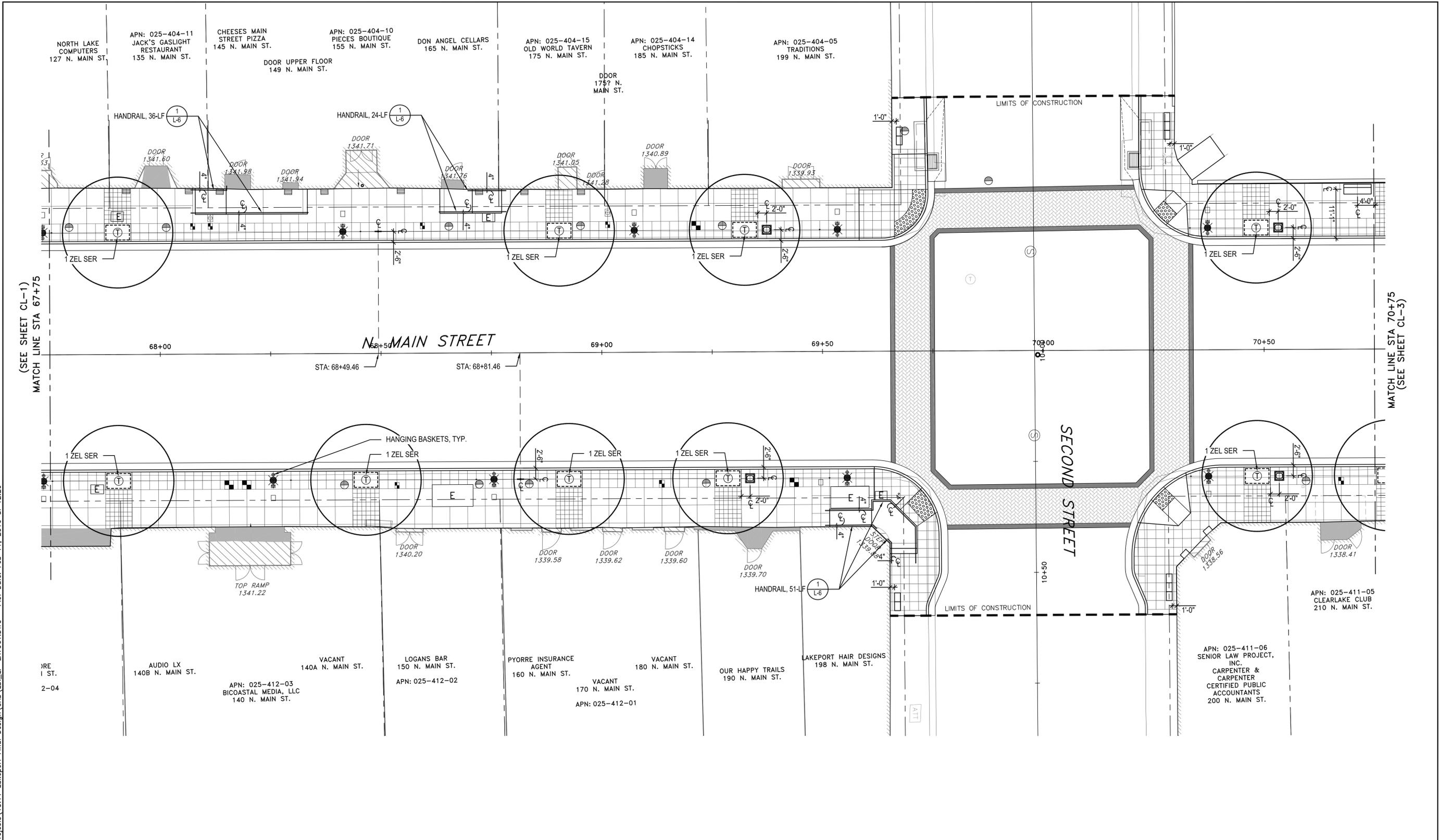
HARRIS DESIGN
 Landscape Architecture
 Urban Design
 155 Fulger Avenue
 Berkeley, CA 94710
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 www.hd-ll.com

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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 S. MAIN STREET LAKEPORT, CA.
 SCALE: 1"=10' APPROVED BY:
 DATE: FEB. 2016 DRAWN BY: LY
 REVIEWED BY: BH
PLANTING & SITE FURNITURE PLAN
 STA: 64+75 TO STA: 67+75
 LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER
 L-1 of 70 SHTS

BID SET

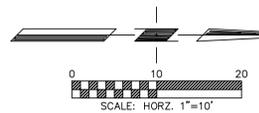
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(SEE SHEET CL-1)
 MATCH LINE STA 67+75

MATCH LINE STA 70+75
 (SEE SHEET CL-3)

BID SET



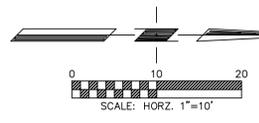
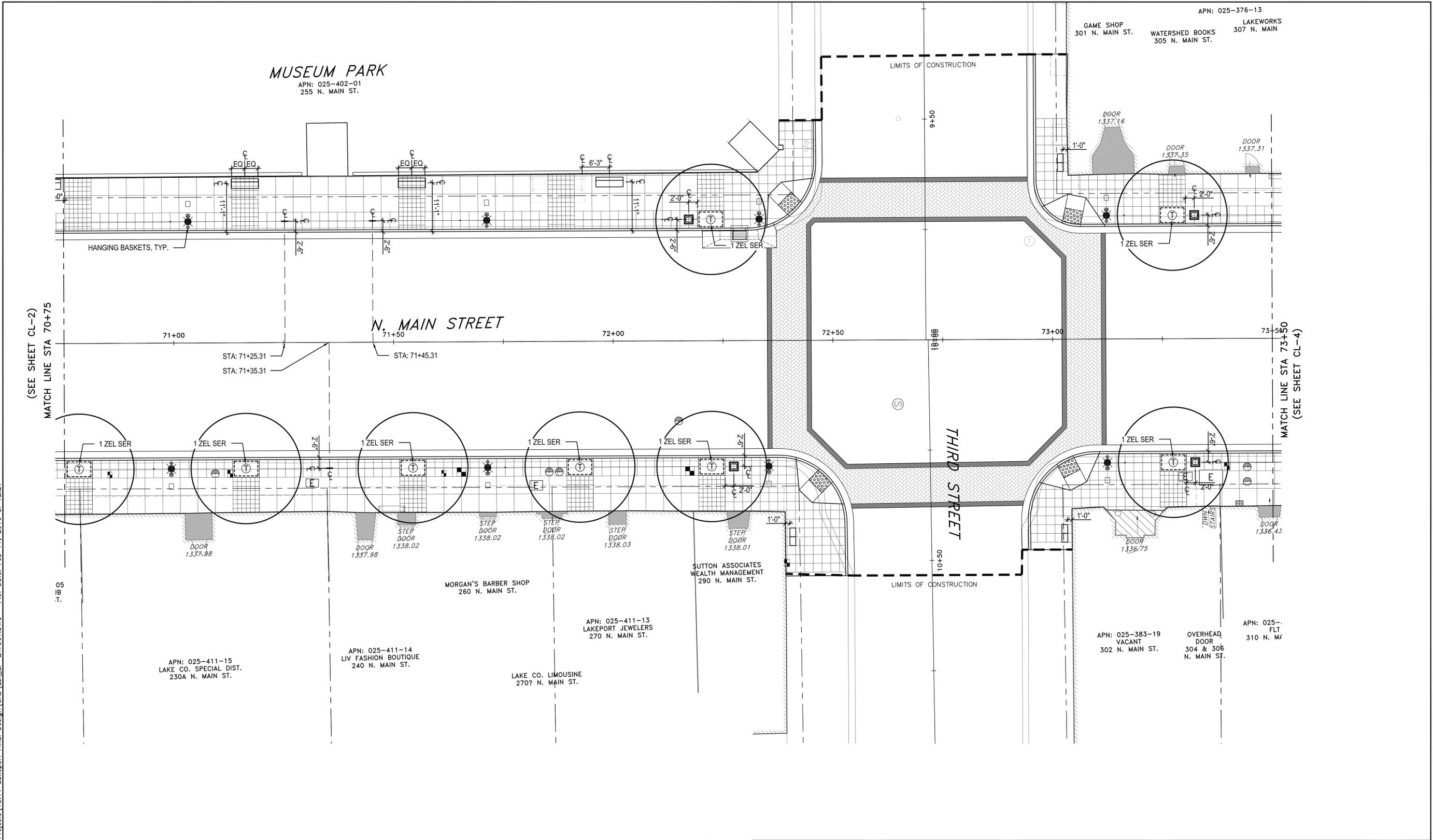
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| PROJECT ENGINEER: CATHY A. McKEON | |
| LICENSE: NO. 51026 | EXP.: 9-30-17 |
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| | |
|---|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II N. MAIN STREET LAKEPORT, CA. | |
| SCALE: 1"=10' | APPROVED BY: |
| DATE: FEB. 2016 | REVIEWED BY: BH |
| PLANTING & SITE FURNITURE PLAN STA: 67+75 TO STA: 70+75 | |
| LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER L-2 of 70 SHTS |

Xrefs: LD_LX_ROW_APN.dwg; LD_LX_EX_TOPO.dwg; LD_LX_TBLOCK.dwg; HD-logo-horiz.dwg; LD-Plant_schedules.dwg; LD_LX_BASE_NoBulbouts.dwg
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|---|
| PROJECT ENGINEER: CATHY A. McKEON |
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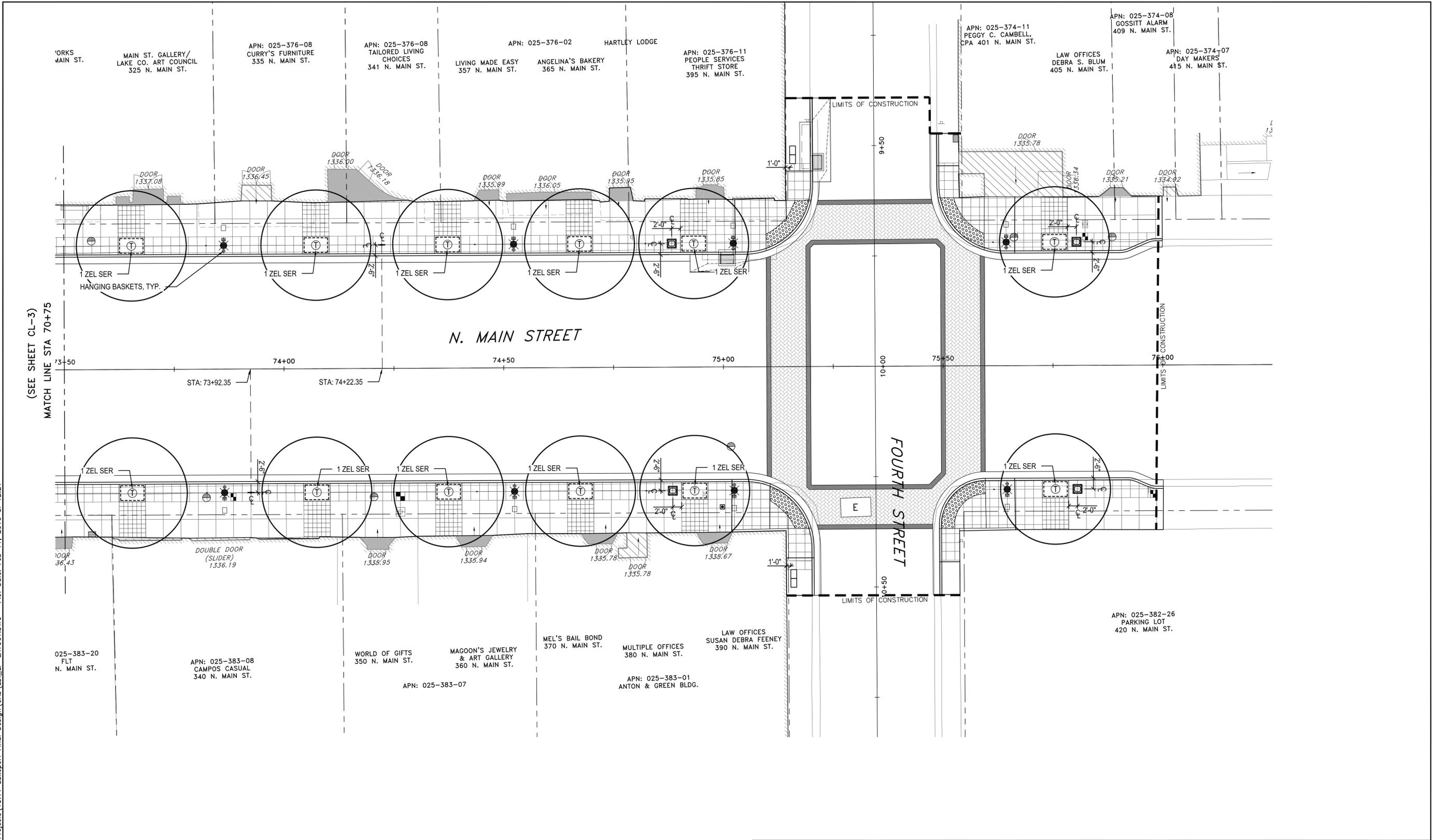
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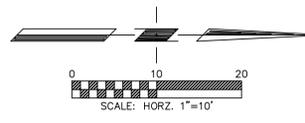
| | |
|---|----------------------------------|
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| SCALE: 1"=10' | APPROVED BY: |
| DATE: FEB. 2016 | REVIEWED BY: BH |
| PLANTING & SITE FURNITURE PLAN STA: 70+75 TO STA: 73+50 | |
| LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER L-3 of 70 SHTS |

BID SET

Xrefs: LD_LX_ROW_APN.dwg; LD_LX_EX_TOPO.dwg; LD_LX_TBLOCK.dwg; HD-logo-horiz.dwg; LD-Plant_schedule.dwg; LD_LX_BASE_NoBulbouts.dwg
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BID SET



| | |
|---|---------------|
| PROJECT ENGINEER: CATHY A. McKEON | |
| LICENSE: NO. 51026 | EXP.: 9-30-17 |
| VERIFY SCALE | |
| | |
| BAR REPRESENTS THREE INCHES ON ORIGINAL | |

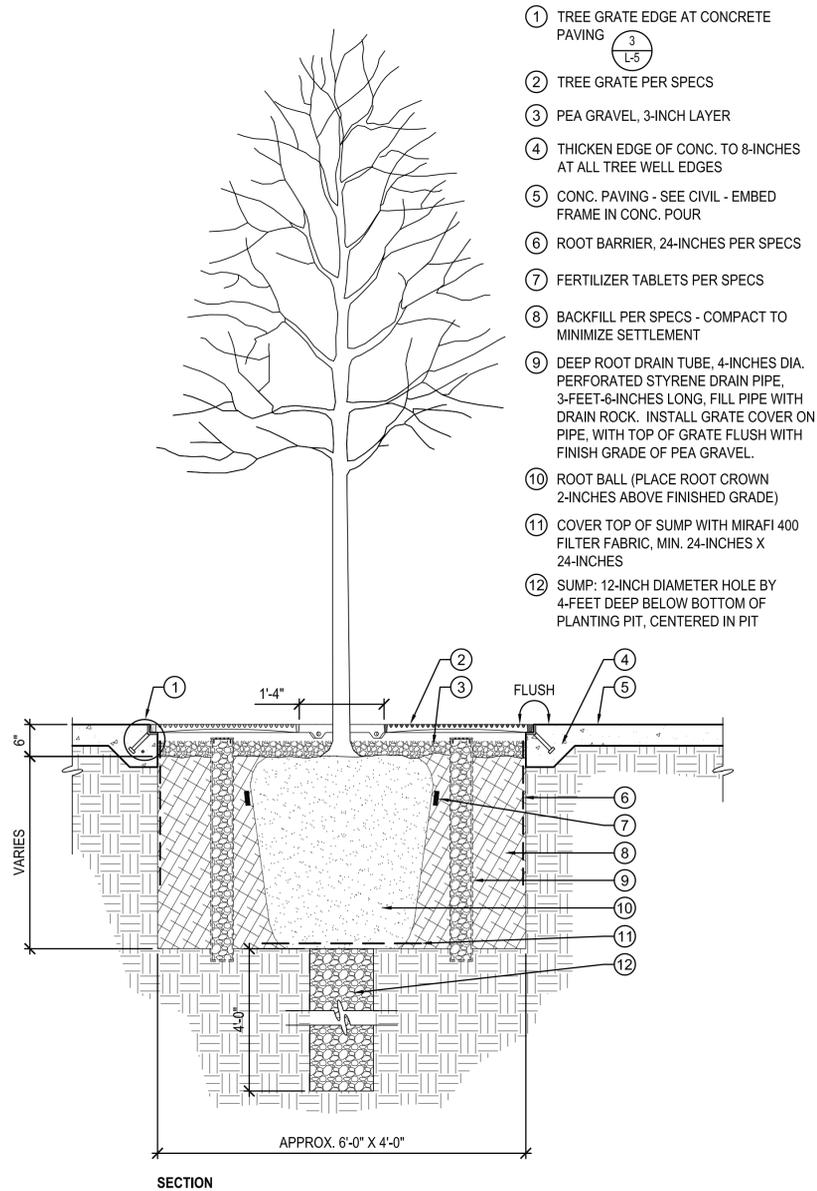
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 Berkeley, CA 94710
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 www.hd4o.com

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 Utah, CA 95482

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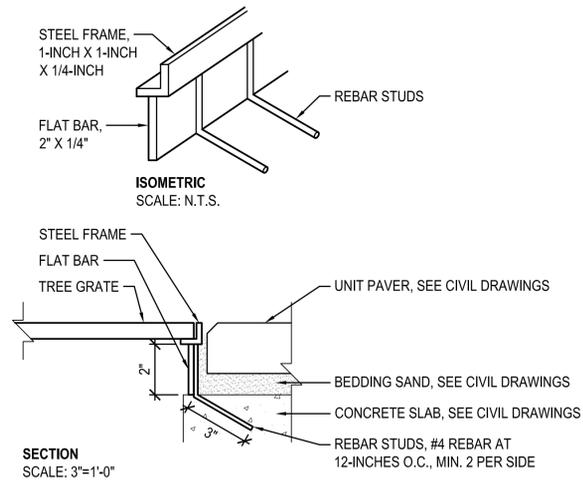
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| LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II N. MAIN STREET LAKEPORT, CA. | |
| SCALE: 1"=10' | APPROVED BY: |
| DATE: FEB. 2016 | REVIEWED BY: BH |
| PLANTING & SITE FURNITURE PLAN STA: 73+50 TO STA: 76+00 | |
| LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER L-4 of 70 SHTS |

Xrefs: LD_LX-TBLOCK.DWG; HD-logo-horiz.dwg; tree_planting.dwg; LP-Tree grate edge at concrete paving.dwg; LP-Paver edge at tree grate.dwg; LP-handrail.dwg
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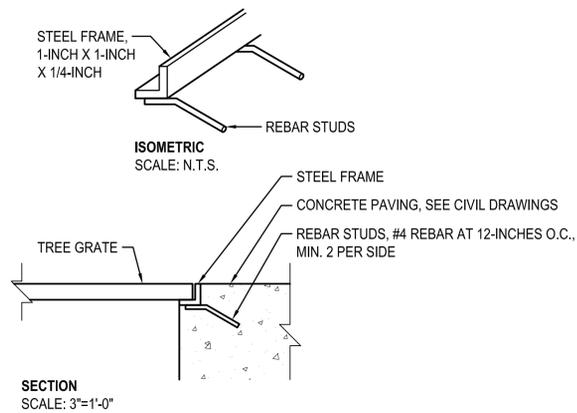


1 TREE PLANTING AND TREE GRATE
SCALE: N.T.S.

- ① TREE GRATE EDGE AT CONCRETE PAVING
- ② TREE GRATE PER SPECS
- ③ PEA GRAVEL, 3-INCH LAYER
- ④ THICKEN EDGE OF CONC. TO 8-INCHES AT ALL TREE WELL EDGES
- ⑤ CONC. PAVING - SEE CIVIL - EMBED FRAME IN CONC. POUR
- ⑥ ROOT BARRIER, 24-INCHES PER SPECS
- ⑦ FERTILIZER TABLETS PER SPECS
- ⑧ BACKFILL PER SPECS - COMPACT TO MINIMIZE SETTLEMENT
- ⑨ DEEP ROOT DRAIN TUBE, 4-INCHES DIA. PERFORATED STYRENE DRAIN PIPE, 3-FEET-6-INCHES LONG, FILL PIPE WITH DRAIN ROCK. INSTALL GRATE COVER ON PIPE, WITH TOP OF GRATE FLUSH WITH FINISH GRADE OF PEA GRAVEL.
- ⑩ ROOT BALL (PLACE ROOT CROWN 2-INCHES ABOVE FINISHED GRADE)
- ⑪ COVER TOP OF SUMP WITH MIRAFI 400 FILTER FABRIC, MIN. 24-INCHES X 24-INCHES
- ⑫ SUMP: 12-INCH DIAMETER HOLE BY 4-FEET DEEP BELOW BOTTOM OF PLANTING PIT, CENTERED IN PIT



2 PAVER EDGE AT TREE GRATE
SCALE: 3"=1'-0"



3 TREE GRATE EDGE AT CONCRETE PAVING
SCALE: 3"=1'-0"



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL



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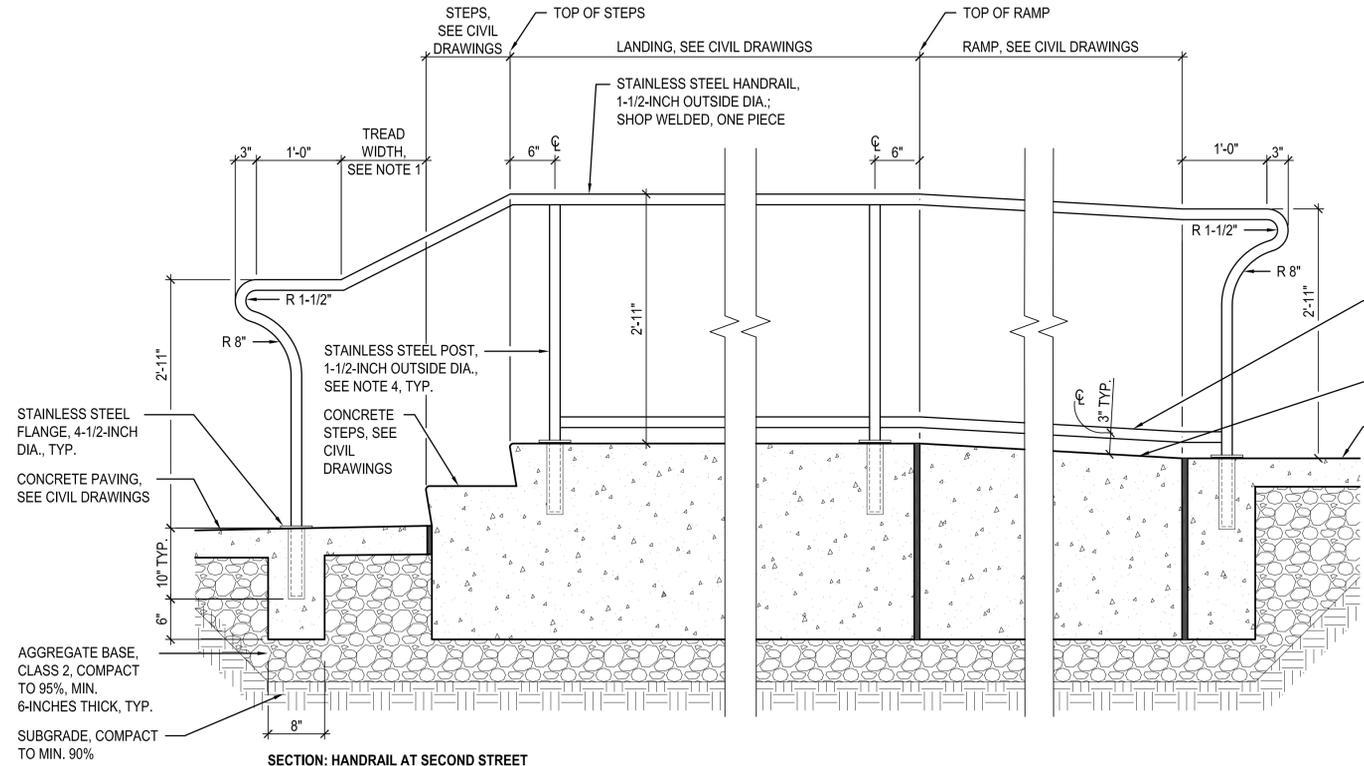
LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.

SCALE: VARIES APPROVED BY: [Signature]
 DATE: FEB. 2016 DRAWN BY: LY
 REVIEWED BY: BH

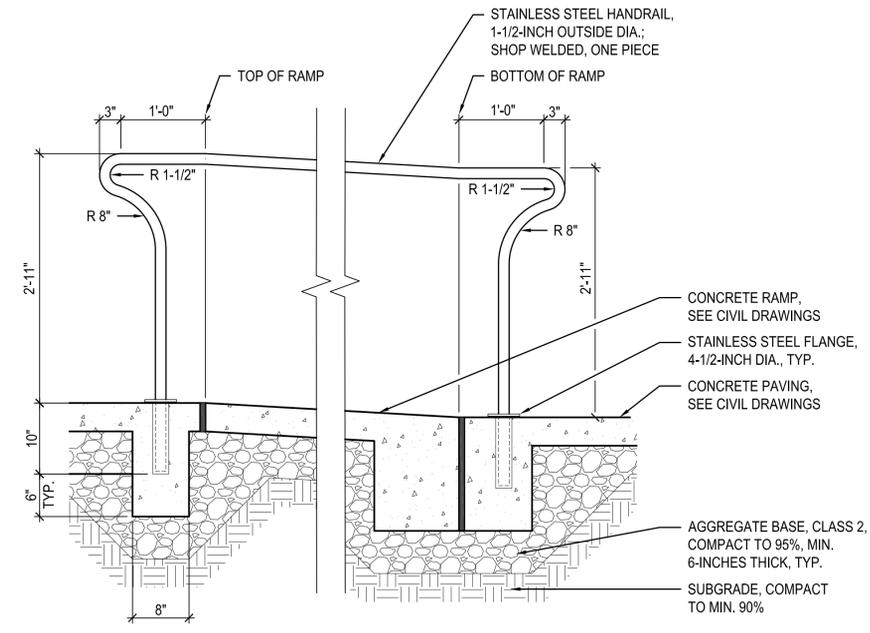
LANDSCAPE CONSTRUCTION DETAILS

LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER
 L-5 of 70 SHTS

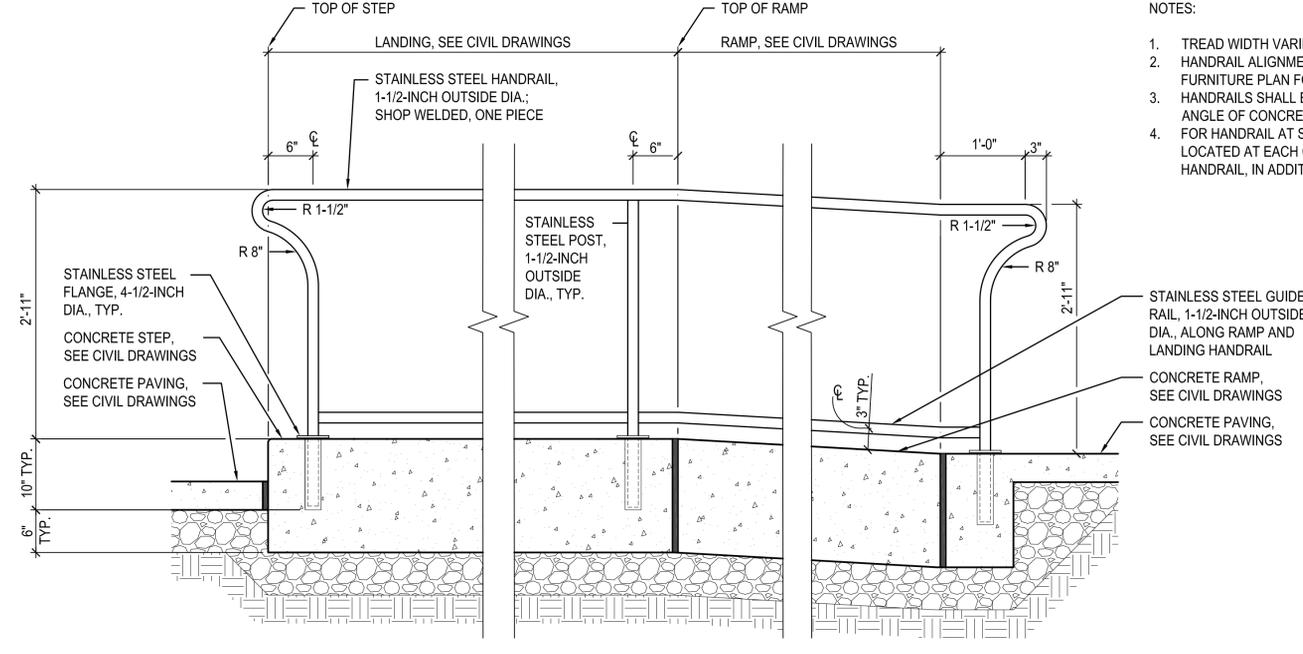
Xrefs: LD_LX-TBLOCK.DWG; HD-logo-horiz.dwg; LP-Tree grate edge at concrete paving.dwg; LP-Raver edge at tree grate.dwg; LP-handrail.dwg
 Path: W:\Projects\2013 Projects\13.11 Lakport Final Design\CAD\LD-L-3-Landscape construction details.dwg Plot Date: Feb 10, 2016 at 16:36



SECTION: HANDRAIL AT SECOND STREET

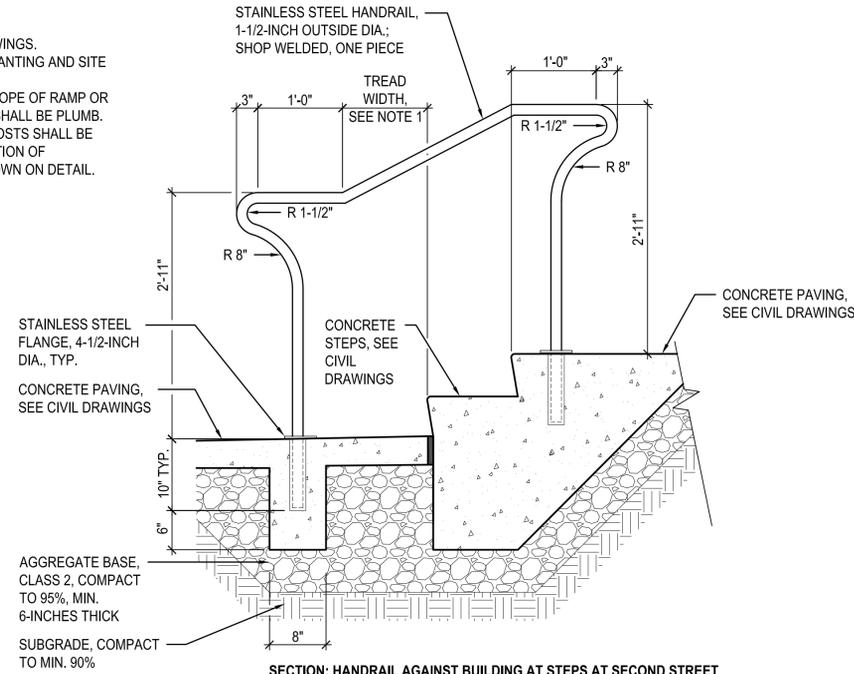


SECTION: TYPICAL HANDRAIL AGAINST BUILDING AT RAMP



SECTION: TYPICAL HANDRAIL FOR RAISED WALKS ALONG MAIN STREET BETWEEN STA: 67+75 AND 69+25

- NOTES:
- TREAD WIDTH VARIES. SEE CIVIL DRAWINGS.
 - HANDRAIL ALIGNMENT VARIES. SEE PLANTING AND SITE FURNITURE PLAN FOR ALIGNMENT.
 - HANDRAILS SHALL BE PARALLEL TO SLOPE OF RAMP OR ANGLE OF CONCRETE STEPS. POSTS SHALL BE PLUMB. FOR HANDRAIL AT SECOND STREET, POSTS SHALL BE LOCATED AT EACH CHANGE OF DIRECTION OF HANDRAIL, IN ADDITION TO POSTS SHOWN ON DETAIL.



SECTION: HANDRAIL AGAINST BUILDING AT STEPS AT SECOND STREET

1 HANDRAIL
SCALE: 1"=1'-0"



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL

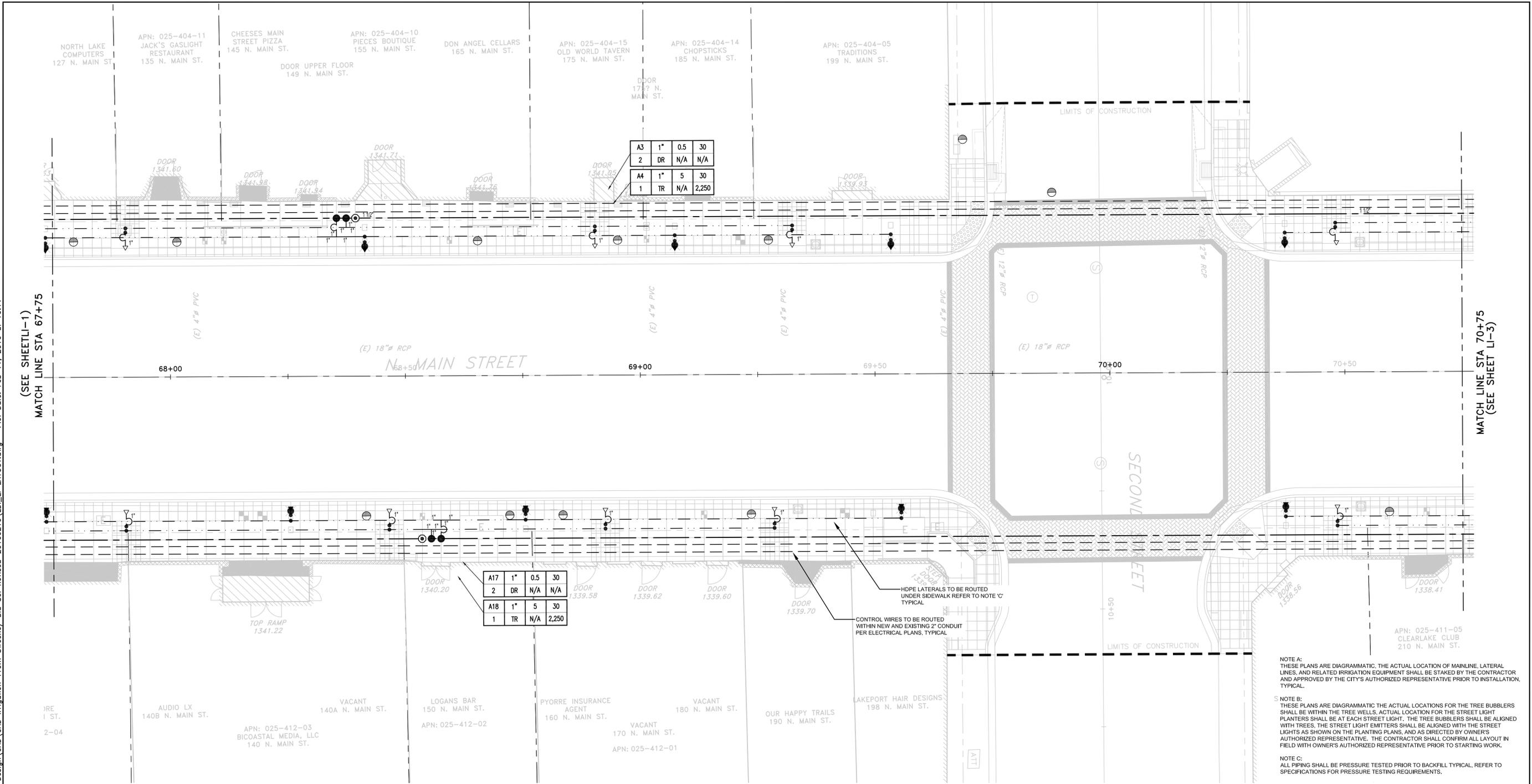
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.
 SCALE: VARIES APPROVED BY:
 DATE: FEB. 2016 DRAWN BY: LY
 REVIEWED BY: BH
LANDSCAPE CONSTRUCTION DETAILS
 LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER
 L-6 of 70 SHTS

BID SET

Xrefs: LDI_CX_ROW_APN.dwg; LDI_PX_EX_TOPO.dwg; LDI_CX_BASE_NoBulbHours.dwg; LDI_LX_TBLOCK.DWG; HD-legs-horiz.dwg; L-NRF.dwg
 Plot Date: Feb 11, 2016 at 16:11
 Path: W:\Projects\2015 Projects\3.11 Lakeport Final Design\CAD\Irrigation-Bid_Ser_Revision-201602\LDI-LI-LAYOUT.dwg



| | | | |
|----|----|-----|-------|
| A3 | 1" | 0.5 | 30 |
| 2 | DR | N/A | N/A |
| A4 | 1" | 5 | 30 |
| 1 | TR | N/A | 2,250 |

| | | | |
|-----|----|-----|-------|
| A17 | 1" | 0.5 | 30 |
| 2 | DR | N/A | N/A |
| A18 | 1" | 5 | 30 |
| 1 | TR | N/A | 2,250 |

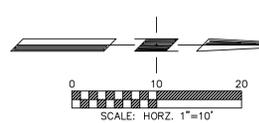
NOTE A:
 THESE PLANS ARE DIAGRAMMATIC. THE ACTUAL LOCATION OF MAINLINE, LATERAL LINES, AND RELATED IRRIGATION EQUIPMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. TYPICAL.

NOTE B:
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NOTE C:
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
 IRRIGATION DESIGN AND CONSULTING
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 Morristown, CA 92563
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 F: (951) 461-6850



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
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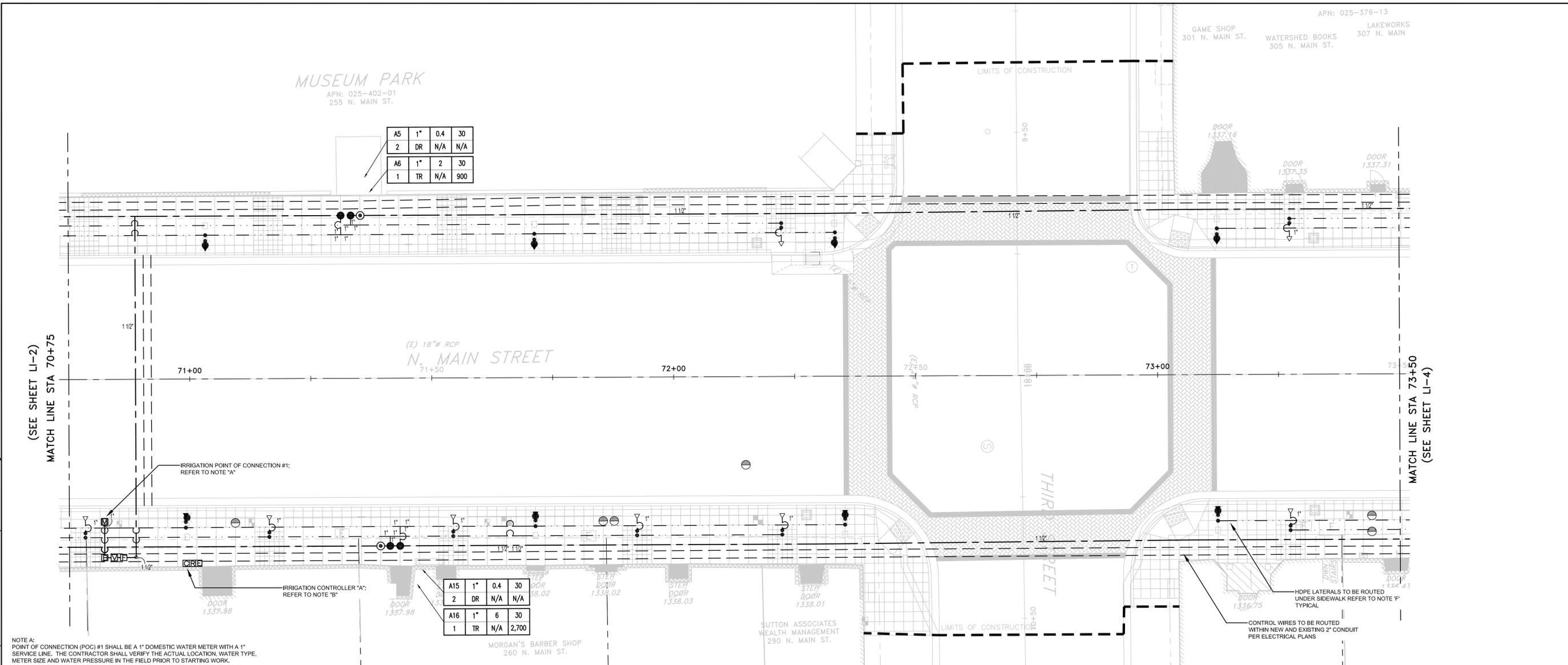
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 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.
 SCALE: 1"=10' APPROVED BY: DRAWN BY: CB
 DATE: FEB. 2016 REVIEWED BY: DZ

IRRIGATION PLAN
 STA: 67+75 TO STA: 70+75
 LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER LI-2 of 70 SHTS

BID SET

Xrefs: LDI_CX_ROW_APN.dwg; LDI_PV_EX_TOPO.dwg; LDI_CX_BASE_NoBulbouts.dwg; LDI_LX_TBLOCK.DWG; HD-logo-horiz.dwg; L-NRF.dwg
 Plot: W:\Projects\2015 Projects\311 Lakport Final Design\CAD Irrigation-Bid Set Revised-20160210\LDI-LI-LAYOUT.dwg Plot Date: Feb 11, 2016 at 16:12



| | | | |
|----|----|-----|-----|
| A5 | 1" | 0.4 | 30 |
| 2 | DR | N/A | N/A |
| A6 | 1" | 2 | 30 |
| 1 | TR | N/A | 900 |

| | | | |
|-----|----|-----|-------|
| A15 | 1" | 0.4 | 30 |
| 2 | DR | N/A | N/A |
| A16 | 1" | 6 | 30 |
| 1 | TR | N/A | 2,700 |

WATER PRESSURE LOSS CALCULATIONS

| | | | |
|---------------------------|-----|---------------------------------|------|
| WATER METER NUMBER | 1 | WATER METER SIZE (Inches) | 2.00 |
| HYDRAULIC GRADE LINE (FT) | 0 | WATER METER ELEVATION (FT) | 0 |
| ELEVATION DIFFERENCE (FT) | 0 | STATIC PRESSURE (PSI) | 95.0 |
| REMOTE CONTROL VALVE # | A14 | REMOTE CONTROL VALVE SIZE (in.) | 1.00 |
| R.C.V. DEMAND (GPM) | 6 | TOTAL DEMAND (GPM) | 6 |
| HIGHEST HEAD SERVED (FT) | 0 | STATIC PRESSURE AT HIGHEST HEAD | 0.0 |

sweeney + associates
 IRRIGATION DESIGN AND CONSULTING
 PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

| SIZE (Inches) | DESCRIPTION | FLOW | # | LOSS | PSI | | |
|---|--|------|----|-------|-----------|-------------|------------|
| 1.00 | SERVICE LINE (50 FT OF TYPE K COPPER) | 6 | 1 | 0.69 | PSI | | |
| 1.00 | WATER METER (XXXX TYPE) | 6 | 2 | 0.30 | PSI | | |
| 1.00 | BACKFLOW PREVENTER (R/P TYPE) | 6 | 3 | 12.00 | PSI | | |
| 1.00 | FILTRATION (WYE FILTER) | 6 | 4 | 1.00 | PSI | | |
| 1.00 | BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS) | 6 | 6 | 0.82 | PSI | | |
| 1.00 | MASTER CONTROL VALVE | 6 | 7 | 0.75 | PSI | | |
| 1.00 | FLOW SENSOR | 6 | 8 | 1.00 | PSI | | |
| 1.50 | ISOLATION VALVES (BALL TYPE) | 6 | 9 | 1.00 | PSI | | |
| 1.50 | 350 FEET OF MAINLINE: HDPE | 6 | 10 | 4.80 | PSI | | |
| 1.50 | 10 - 90 DEGREE ELBOWS | 6 | 13 | 2.33 | PSI | | |
| 1.00 | REMOTE CONTROL VALVE ASSEMBLY | 6 | 14 | 2.50 | PSI | | |
| 10% | LATERAL LINE LOSSES | 6 | 15 | 3.00 | PSI | | |
| 20% | FITTING LOSS (IN ADDITION TO ELBOWS SHOWN) | N/A | 16 | 0.96 | PSI | | |
| 0.00 | ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD) | N/A | 17 | 0.00 | PSI | | |
| TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17) | | | | | 18 | 31.1 | PSI |
| PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE) | | | | | 19 | 30.0 | PSI |
| TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19) | | | | | 20 | 61.1 | PSI |
| STATIC WATER PRESSURE (FROM ABOVE) | | | | | 21 | 95.0 | PSI |
| RESIDUAL PRESSURE (SUBTRACT #20 FROM #21) | | | | | 22 | 33.9 | PSI |
| SET PRV OR MCV AT (#20 PLUS 10 PSI) | | | | | 23 | 71.1 | PSI |
| PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL) | | | | | 24 | N/A | PSI |

NOTE A:
 POINT OF CONNECTION (POC) #1 SHALL BE A 1" DOMESTIC WATER METER WITH A 1" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

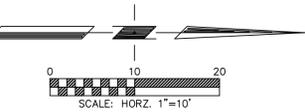
NOTE B:
 CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
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NOTE E:
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 270 N. MAIN ST.



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PROJECT ENGINEER: CATHY A. MCKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 BAR REPRESENTS THREE INCHES ON ORIGINAL

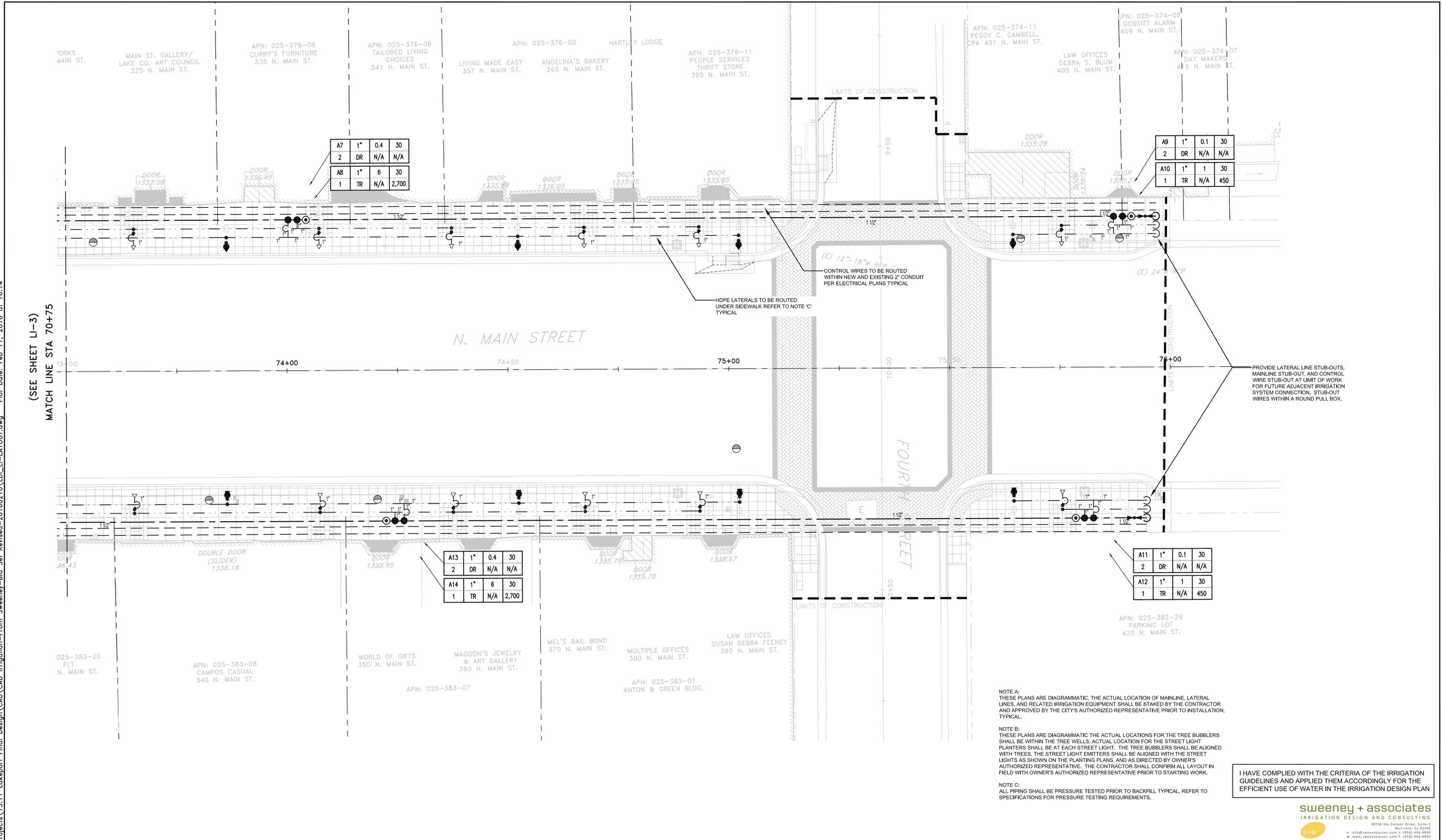
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
N. MAIN STREET LAKEPORT, CA.
 SCALE: 1"=10' APPROVED BY:
 DATE: FEB. 2016 DRAWN BY: CB
 REVIEWED BY: DZ
IRRIGATION PLAN
 STA: 70+75 TO STA: 73+50
LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER LI-3 of 70 SHTS

BID SET

Xrefs: LDI_CX_ROW_APN.dwg; LDI_PX_EX_TOPO.dwg; LDI_CX_BASE_NoBulbouts.dwg; LDI_LX_TBLOCK.DWG; HD-logo-horiz.dwg; L-NRF.dwg
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(SEE SHEET LI-3)
MATCH LINE STA 70+75

| | | | |
|----|----|-----|-------|
| A7 | 1" | 0.4 | 30 |
| 2 | DR | N/A | N/A |
| A8 | 1" | 6 | 30 |
| 1 | TR | N/A | 2,700 |

| | | | |
|-----|----|-----|-----|
| A9 | 1" | 0.1 | 30 |
| 2 | DR | N/A | N/A |
| A10 | 1" | 1 | 30 |
| 1 | TR | N/A | 450 |

| | | | |
|-----|----|-----|-------|
| A13 | 1" | 0.4 | 30 |
| 2 | DR | N/A | N/A |
| A14 | 1" | 6 | 30 |
| 1 | TR | N/A | 2,700 |

| | | | |
|-----|----|-----|-----|
| A11 | 1" | 0.1 | 30 |
| 2 | DR | N/A | N/A |
| A12 | 1" | 1 | 30 |
| 1 | TR | N/A | 450 |

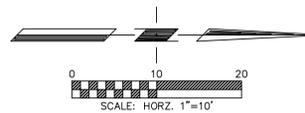
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LICENSE: NO. 51026 EXP.: 9-30-17
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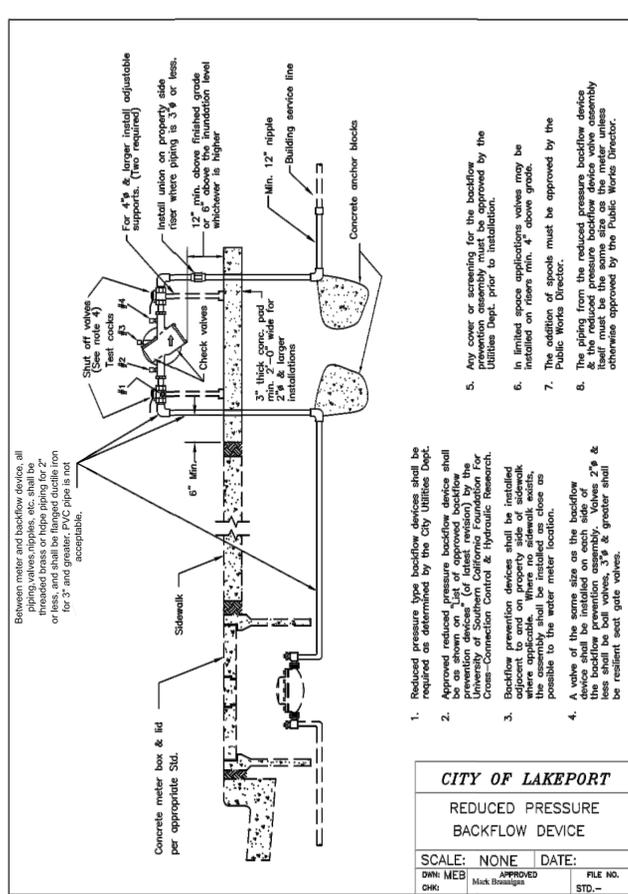
LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
N. MAIN STREET LAKEPORT, CA.
SCALE: 1"=10' APPROVED BY: _____
DATE: FEB. 2016 DRAWN BY: CB
REVIEWED BY: DZ

IRRIGATION PLAN
STA: 73+50 TO STA: 76+00
DRAWING NUMBER LI-4 of 70 SHTS

LAKEPORT REDEVELOPMENT AGENCY

BID SET

Xrefs: LDI_CX_ROW_APN.dwg; LDI_EV_EX_TOPO.dwg; LDI_CX_BASE_NoBulbouts.dwg; LDI_LX_TBLOCK.DWG; HD-legs-horiz.dwg; L-NRF.dwg
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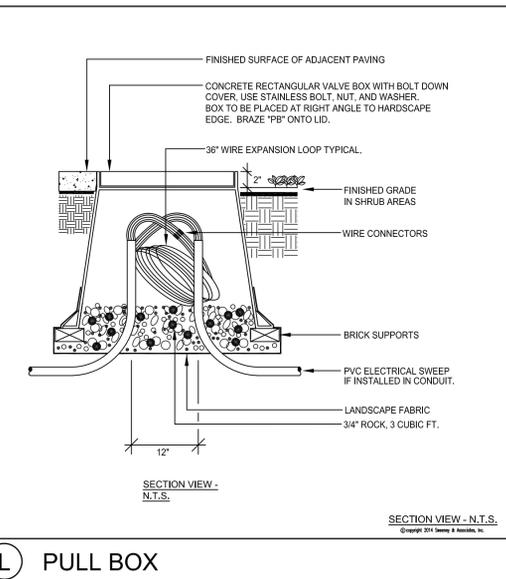


CITY OF LAKEPORT

REDUCED PRESSURE BACKFLOW DEVICE

SCALE: NONE DATE: _____

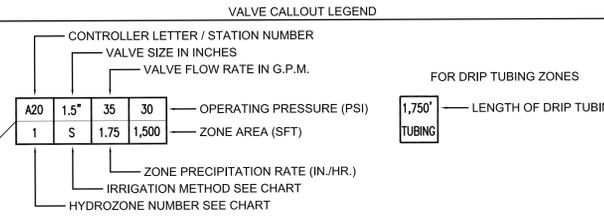
DWG: MEB Mark Borjesson FILE NO. _____
 CHK: Mark Borjesson STD: _____



SECTION VIEW - N.T.S.

IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS, SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.



| HYDROZONE DESCRIPTION CHART | |
|-----------------------------|----------------------------------|
| NUMBER | DESCRIPTION OF THE HYDROZONE |
| HZ 1 | TREE BUBBLERS ON RISERS |
| HZ 2 | HANGING POTZS WITH DRIP EMITTERS |

| IRRIGATION METHOD DESCRIPTION CHART | |
|-------------------------------------|--------------------------------------|
| NUMBER | DESCRIPTION OF THE IRRIGATION METHOD |
| TR | TREE BUBBLERS |
| DR | DRIP EMITTERS |

IRRIGATION MATERIAL LEGEND

| SYMBOL | MANUFACTURER | MODEL NO. / DESCRIPTION | FLOW RATE (GPM) | PSI | RADIUS | P.R. (TRI.) | DETAIL |
|-----------|-----------------------|--|------------------|-----|--------|-------------|----------|
| ▼ | RAIN BIRD | XERI BUG XB-10-6 MULTI-OUTLET DRIP EMITTERS (1.0 GALLON PER HOUR X 6 EMITTERS= 6GPH) WITH TS-025WCAP TUBING STAKE WITH BUG CAP. TO BE CONNECTED TO THE 1/2" FLEX LINE AS PART OF THE LIGHT POLE ASSEMBLY. ALIGN THE EMITTERS WITH PLANTS WITHIN EACH PLANTER BASKET ADJUST LOCATIONS AS NECESSARY TO DISTRIBUTE WATER EVENLY THROUGHOUT PLANTER BASKET TYPICAL. SUPPLY XQ 1/4 DISTRIBUTION (LENGTH AS REQUIRED) TUBING PER EMITTER OUTLET. | 0.1 | 30 | N/A | N/A | A |
| ▽ | RAIN BIRD | 140Z NOZZLE ON RISER, EACH SYMBOL REPRESENTS TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS ON OPPOSITE SIDES OF TREE, TYPICAL. | .50 (1.00 TOTAL) | 30 | N/A | N/A | B |
| ☒ | P.O.C. | 1" POTABLE (DOMESTIC) WATER METER WITH 1" SERVICE LINE. VERIFY METER SIZE, LOCATION AND WATER PRESSURE IN FIELD. | | | | | N/A |
| ☒ | WILKINS | 975XLS, 1" R/P BACK FLOW PREVENTION DEVICE WITH GRISWOLD ISOLATOR 'S' SERIES 1" Y-STRAINER WITH 120 MESH FILTER SCREEN AND 500HLR PRESSURE REGULATOR (SET PER PRESSURE CALCULATION) INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS, SIZED PER DEVICE | | | | | SEE LEFT |
| NO SYMBOL | V.I.T. | STRONG BOX SBBC-30SS "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE | | | | | N/A |
| NO SYMBOL | V.I.T. | PBB-30 "POLAR BEARIE" INSULATED BACK FLOW DEVICE COVER, FOR INFORMATION CONTACT V.I.T. PRODUCTS (800) 729-1314 | | | | | N/A |
| ☒ | BUCKNER | 3100-100 "1" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX. | | | | | C |
| ☒ | CALSENSE | FM-1B 1" BRASS FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX. | | | | | D |
| ☒ | WATTS | B6080SS-SH FULL PORT BRONZE VALVE, STAINLESS STEEL BALL, STEM AND HANDLE | | | | | E |
| ☒ | RAIN BIRD | 33DR3 3/4" QUICK COUPLER VALVE AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX. | | | | | F |
| ☒ | HUNTER | ICV-101G-FS-ADJ PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1" SIZE), SET AS-ADJ PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX. | | | | | G |
| ☒ | CALSENSE | ET2000e-40-GR-RR-e-TRAN/GR-STUBBY/CPMM 5YR/FM 1B. 40 STATION IRRIGATION CONTROLLER INSTALLED WITHIN STAINLESS STEEL ENCLOSURE, SERIES SSER STAINLESS STEEL ENCLOSURE WITH SSE-PED AS PART OF CONTROLLER ASSEMBLY. PLEASE CALL CALSENSE REP ERIN HAGEN AT 1-(760)-580-1835 | | | | | H |
| ☒ | HUNTER | MINI-CLIK RAIN SENSOR, MOUNT TO REAR OF ENCLOSURE AND WIRE TO CONTROLLER | | | | | N/A |
| ☒ | N/A | 120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD | | | | | N/A |
| --- | AS APPROVED | PVC PIPE 1" - 1 1/4" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 24" BELOW FINISHED GRADE | | | | | I |
| --- | CMF GLOBAL / AQUAFUSE | HDPE IRON PIPE SIZE (IPS) PRESSURE PIPE (PE4710), DR 11 (RATED AT 202 PSI) 2" SIZE, AS MAINLINE PIPE. ALL HDPE PIPE SHALL BE FULLY FUSED USING A MANUFACTURER APPROVED FUSING DEVICE, SEE FUSING AND FITTING REQUIREMENTS BY SIZE BELOW. HDPE MAINLINE SHALL BE INSTALLED 24" BELOW FINISHED GRADE. FOR CONTROL VALVE MANIFOLDS THE HDPE PIPING SHALL BE 2" SIZE WITH 2" HDPE RISERS TO THE CONTROL VALVES REGARDLESS OF CONTROL VALVE SIZE. | | | | | I |
| --- | AS APPROVED | PVC WIRE CONDUIT, REFER TO ELECTRICAL PLANS | | | | | J |
| --- | CMF GLOBAL / AQUAFUSE | HDPE IRON PIPE SIZE (IPS) PRESSURE PIPE (PE4710), DR 11 (RATED AT 202 PSI) 1 1/2" SIZE FOR MAINLINES INSTALLED 36" BELOW FINISH GRADE, AND 1" - 1 1/4" SIZE FOR LATERALS. PIPE TO BE ROUTED BETWEEN PLANTERS AND LIGHT POLES AS LATERAL LINES INSTALLED 24" BELOW FINISH GRADE. ALL HDPE PIPE SHALL BE FULLY FUSED USING A MANUFACTURER APPROVED FUSING DEVICE, SEE FUSING AND FITTING REQUIREMENTS BY SIZE BELOW. | | | | | N/A |
| --- | CMF GLOBAL / AQUAFUSE | CONNECTION POINT BETWEEN HDPE PIPING AND PVC IRRIGATION PIPING. HDPE PIPE STUB-OUT SHALL HAVE A LINE SIZED X FIPT HDPE ADAPTER PROVIDED FOR CONNECTION TO THE IRRIGATION PIPING. USE A LINE SIZED X 6" SCH. 80 T.O.E. PVC NIPPLE AND A LINE SIZED PVC COUPLER FOR THE CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF HDPE PIPING IN THE FIELD PRIOR TO STARTING WORK. | | | | | N/A |
| --- | NO SYMBOL | CMF GLOBAL / AQUAFUSE | | | | | N/A |
| --- | NO SYMBOL | LASCO | | | | | N/A |
| --- | NO SYMBOL | AS APPROVED | | | | | N/A |
| --- | NO SYMBOL | AS APPROVED | | | | | N/A |
| --- | NO SYMBOL | PAIGE ELECTRIC | | | | | N/A |
| --- | NO SYMBOL | 3M | | | | | N/A |
| --- | NO SYMBOL | NDS (K.B.I.) | | | | | N/A |
| --- | NO SYMBOL | NDS (K.B.I.) | | | | | N/A |
| --- | NO SYMBOL | CHRISTY'S | | | | | N/A |

| IRRIGATION CONTROLLER RUN TIMES | | | | | | | | | | | | | | | | |
|--|-------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------------|---------------|
| POC or Controller | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | Total / Avg. | | |
| A | ETo / Month (Inches): | 0.94 | 1.74 | 2.78 | 4.15 | 5.86 | 7.27 | 7.76 | 6.83 | 5.38 | 3.28 | 1.51 | 0.87 | 48.37 | | |
| | ETo / Day (Inches): | 0.03 | 0.06 | 0.09 | 0.14 | 0.19 | 0.24 | 0.25 | 0.22 | 0.18 | 0.11 | 0.05 | 0.03 | 0.13 | | |
| | Irrigation Days / Week: | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| Plant / Irrig. Type | AKc | Pr Rate | IE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| Hanging Pots | 0.40 | 0.72 | 0.81 | 1.5 | 3.0 | 4.3 | 6.6 | 9.1 | 11.6 | 12.0 | 10.6 | 8.6 | 5.1 | 2.4 | 1.3 | Min./Day/Zone |
| Drip Emitters | Number of Zones: | 10 | 14.6 | 29.8 | 43.1 | 66.4 | 90.8 | 116.3 | 120.2 | 105.8 | 86.1 | 50.8 | 24.2 | 13.5 | Total Min./Day | |
| Trees | 1.00 | 1.14 | 0.81 | 2.3 | 4.7 | 6.8 | 10.5 | 14.3 | 18.4 | 19.0 | 16.7 | 13.6 | 8.0 | 3.8 | 2.1 | Min./Day/Zone |
| Bubblers | Number of Zones: | 10 | 23.0 | 47.1 | 68.0 | 104.9 | 143.3 | 183.7 | 189.8 | 167.0 | 135.9 | 80.2 | 38.2 | 21.3 | Total Min./Day | |
| Total Number of Zones: | | 20 | 38 | 77 | 111 | 171 | 234 | 300 | 310 | 273 | 222 | 131 | 62 | 35 | Total Min./Day | |
| Total Controller Run Time in Hours: | | 0.63 | 1.28 | 1.85 | 2.85 | 3.90 | 5.00 | 5.17 | 4.55 | 3.70 | 2.18 | 1.04 | 0.58 | 0.58 | Total Hrs./Day | |
| | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |

Note: These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specific exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
 IRRIGATION DESIGN AND CONSULTING
 88780 Sky Capote Drive, Suite C
 Morristown, CA 92563
 info@sweeneyassoc.com | (951) 461-6850
 www.sweeneyassoc.com | (951) 461-6850



PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
 BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
 Landscape Architecture
 Urban Design
 755 Folger Avenue
 Berkeley, CA 94710
 t: 510.647.3792
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Crawford & Associates, Inc.
 Geotechnical Engineering, Design and Construction Services
 100 N. Pine Street
 Ukiah, CA 95482

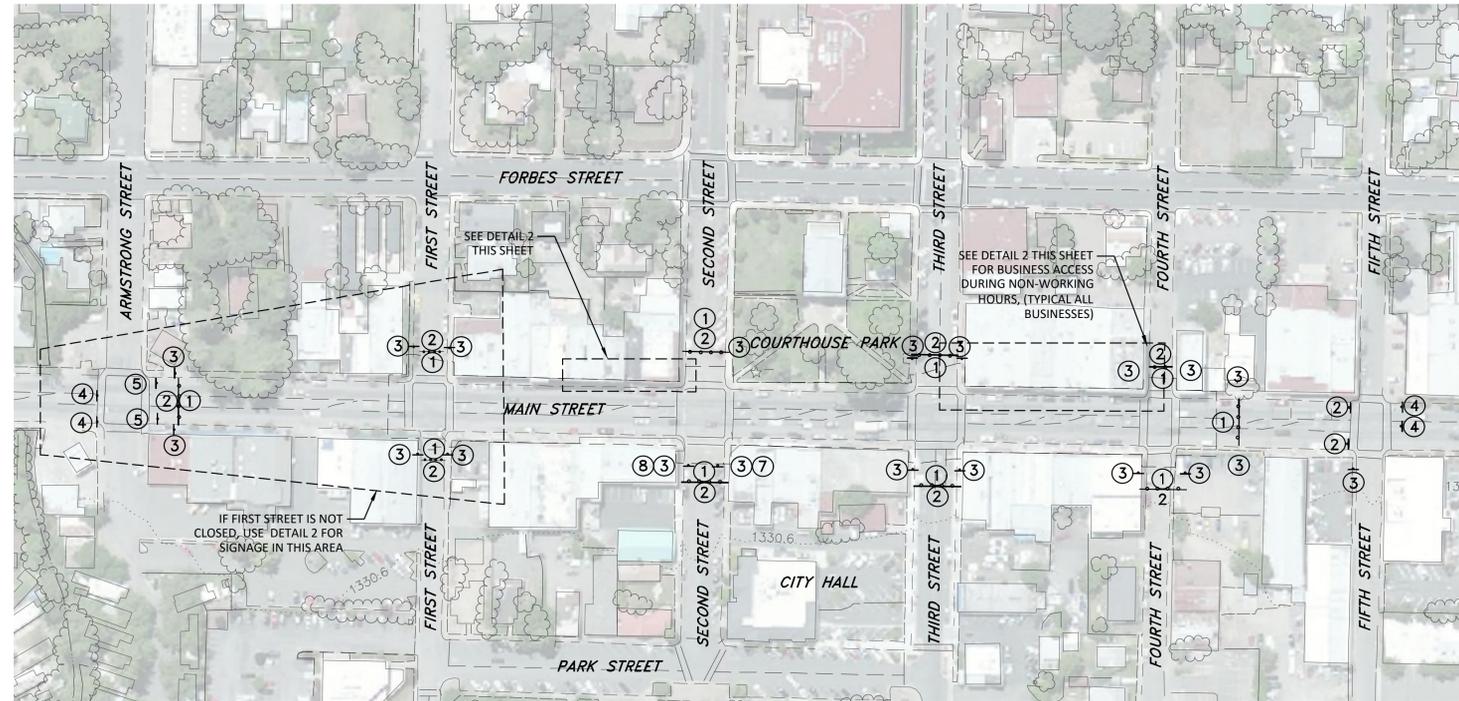
RAU AND ASSOCIATES INC.
 CIVIL ENGINEERS · LAND SURVEYORS
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.
 SCALE: 1" = 10' APPROVED BY: _____
 DATE: FEB. 2016
 DRAWN BY: CB
 REVIEWED BY: DZ

IRRIGATION LEGEND
 STA: 73+50 TO STA: 76+00
 LAKEPORT REDEVELOPMENT AGENCY
 DRAWING NUMBER: LI-5 of 70 SHTS

BID SET

Xrefs: LD_CX-TBLOCK.dwg; LD_CX-CITY TOPO.dwg; LD_RX-EX-TOPO.dwg; LD_CP-TRAFFIC_CONTROL.dwg; Plot Date: Feb 18, 2016 at 12:34
 Path: S:\AutoCAD Civil 3D\Projects\15-219-X-City of Lakeport\DT_Improvements\Drawings\Crowford\LD_CP-TRAFFIC_CONTROL.dwg



ALT 1 - FIRST STREET CLOSED

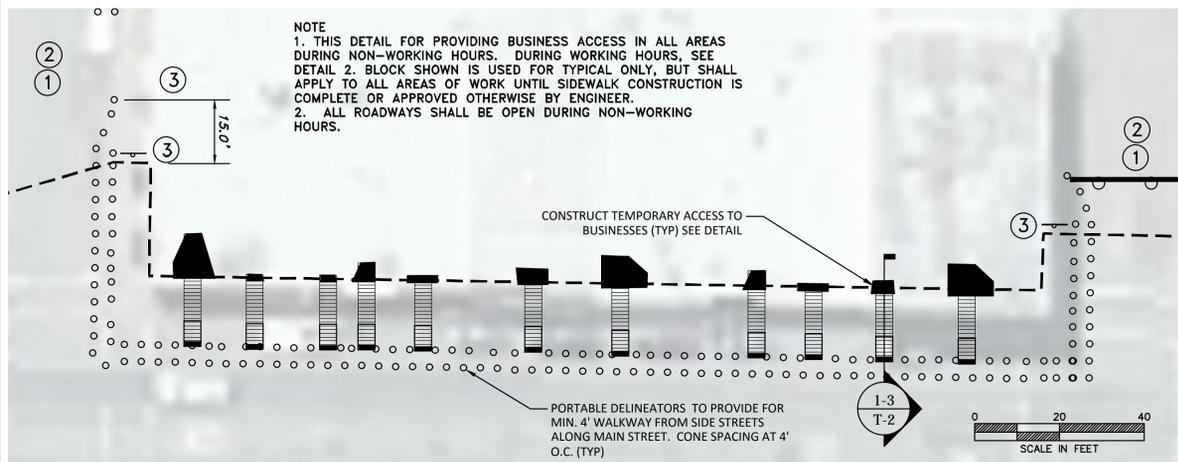


ALT 2 - FIRST STREET OPEN

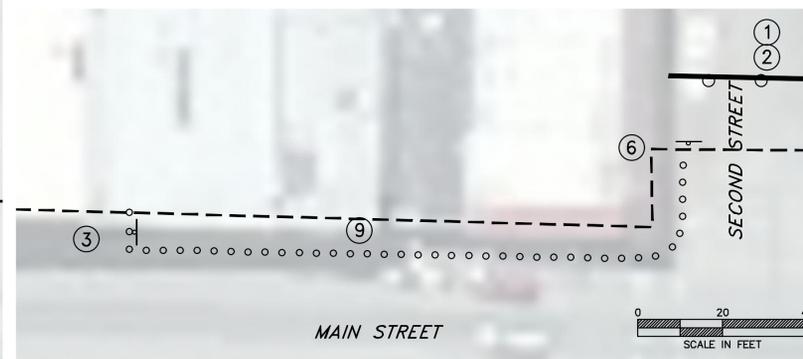
TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL DIAGRAM IS SCHEMATIC ONLY.
2. CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL PLAN, SIGNED AND STAMPED BY A LICENSED ENGINEER, TO CITY ENGINEER 7 DAYS PRIOR TO BEGINNING WORK AND RECEIVE WRITTEN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING.

1 TRAFFIC CONTROL LAYOUT DETAIL
 OVERALL LAYOUT DURING WORKING HOURS N.T.S.



2 TRAFFIC CONTROL LAYOUT DETAIL
 NON-WORKING HOURS - ALL BUSINESSES (TYP) N.T.S.



3 TRAFFIC CONTROL LAYOUT DETAIL
 WORKING HOURS - SELECT BUSINESSES N.T.S.

| Main Street Traffic Control Device Notes | | |
|--|--|--|
| Note | Traffic Control Device | Application Notes |
| 1 | Type III Barricade with Beacons | Provide one flashing beacon for each 4 feet of street width. Individual barricades shall have a maximum gap of 24 inches between curb and end of barricade or end of barricade to end of barricade. |
| 2 | R11-2 | Place two signs at each closure with one sign centered on the travel lane for each direction but facing oncoming traffic. |
| 3 | R9-9 and Type I Barricade | Place Continuous Type I barricades across sidewalk with on R-9-9 sign and a single flashing beacon. Maximum of 6 inch gap between barricades. |
| 4 | R101 and Type I Barricade | Place stop sign on Type I with flashing beacon. Place on sign at edge of travel way and on in center turn lane. |
| 5 | M4-9A | At Armstrong Street (when used), place 2 signs at each roadway edge on Type III barricades pointing west. At Fifth and First (when used), place one sign on west roadway edge pointing right and one on east edge pointing left. |
| 6 | Custom Sign- 3 inch letters, black letters on white background | "Pedestrian Access to Old World Tavern Only" |
| 7 | Custom Sign- 3 inch letters, black letters on white background | "Pedestrians - Use Rear Access to Clearlake Club" |
| 8 | Custom Sign- 3 inch letters, black letters on white background | "Pedestrian - Use Rear Access to Logans Bar" |
| 9 | Portable Delineators | Place at 4 foot intervals along sidewalk from corner to building entrance. |

PROJECT ENGINEER: CATHY A. McKEON
 LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
 0 1/2 1 2 3
 BAR REPRESENTS THREE INCHES ON ORIGINAL

FEB. 18, 2016

Crawford & Associates, Inc.
 Geotechnical Engineering, Design and Construction Services
 100 N. Pine Street
 Ukiah, CA 95482

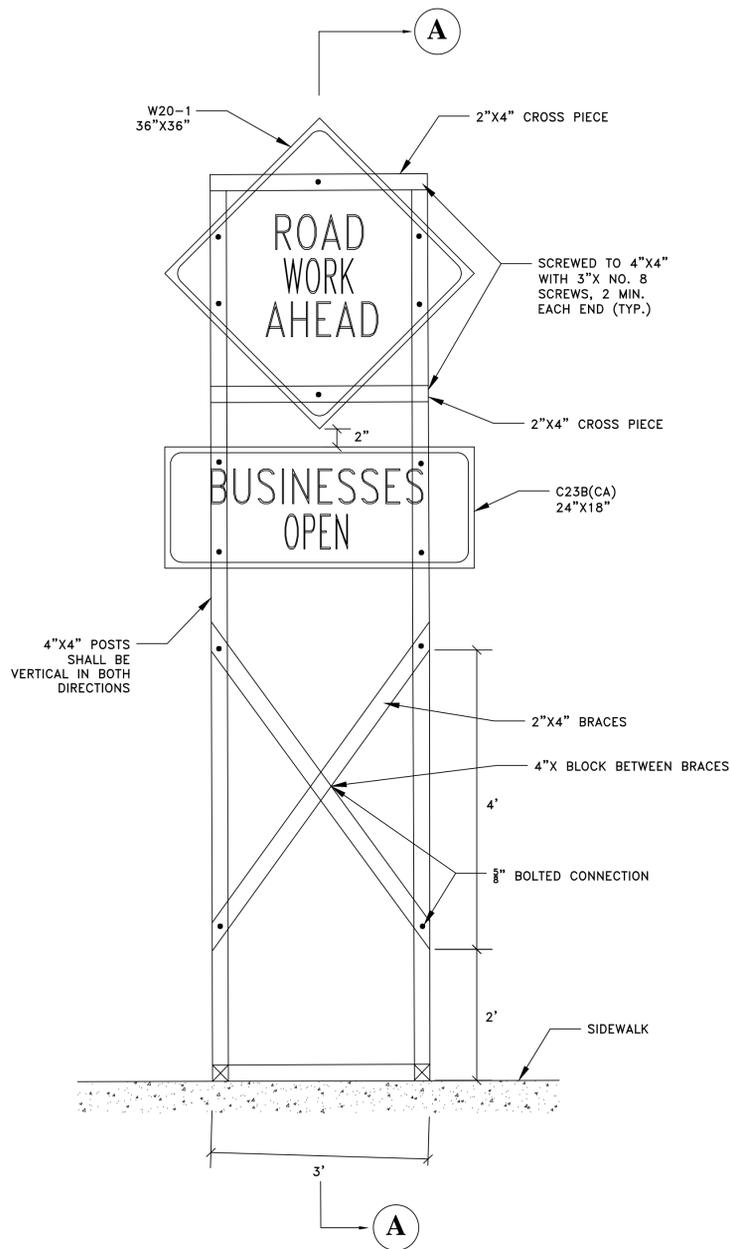
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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
 N. MAIN STREET LAKEPORT, CA.
 SCALE: 1" = 100' APPROVED BY: DRAWN BY: RRH
 DATE: FEB 2016 REVIEWED BY: CAM

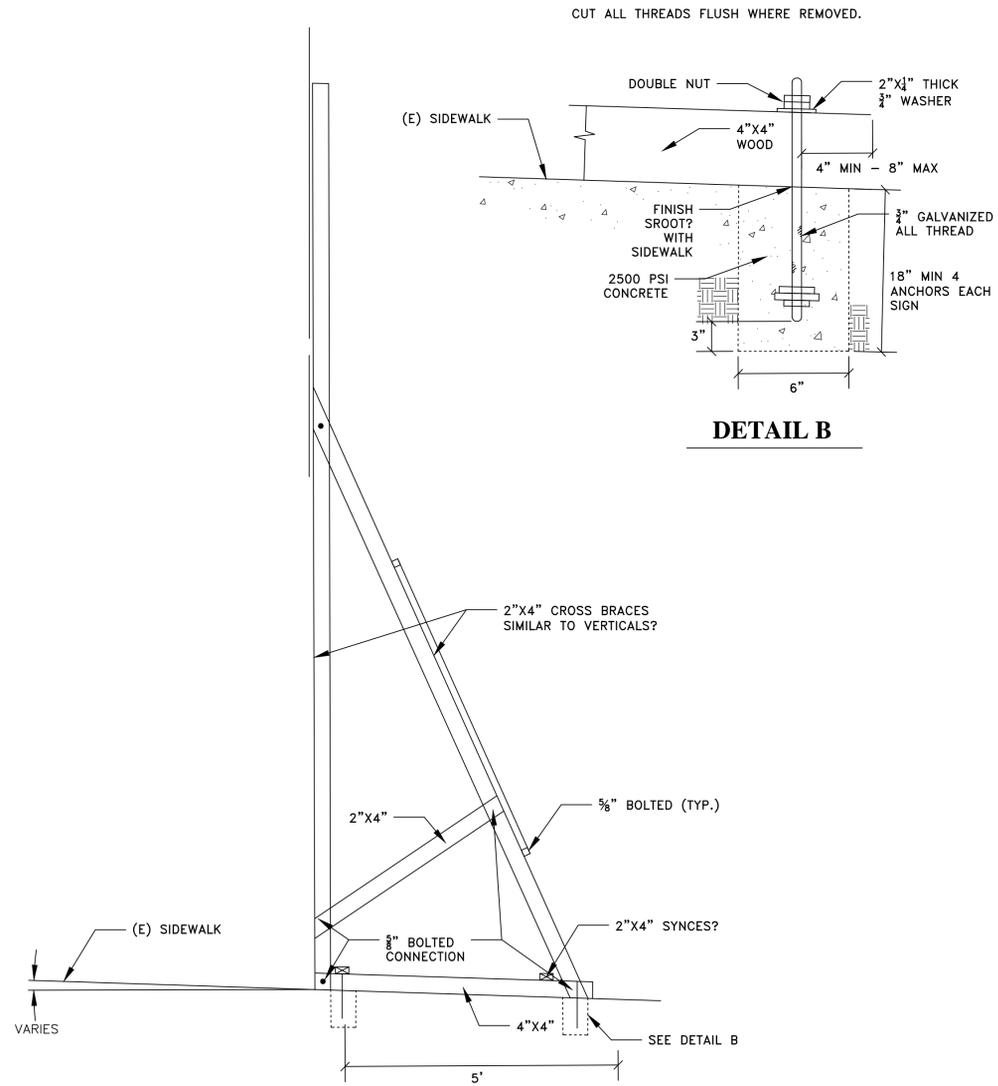
PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN
 CITY OF LAKEPORT DRAWING NUMBER T-1 OF 70 SHTS

BID SET

Xrefs: LD_CX-TBLOCK.dwg; LD_CX-CITY TOPO.dwg; LD_RX-EX-TOPO.dwg
 Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crowford\LD_CP-TRAFFIC_CONTROL.dwg Plot Date: Feb. 18, 2016 at 13:00



1A Project Entry Sign (10 Required)
FRONT VIEW



1B Side View
SECTION A-A

| | |
|--|---------------|
| PROJECT ENGINEER: CATHY A. McKEON | |
| LICENSE: NO. 51026 | EXP.: 9-30-17 |
| VERIFY SCALE BAR REPRESENTS THREE INCHES ON ORIGINAL | |

FEB. 18, 2016

Crawford & Associates, Inc.
 Geotechnical Engineering, Design and Construction Services
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 Ukiah, CA 95482

RAU AND ASSOCIATES INC.
 CIVIL ENGINEERS · LAND SURVEYORS
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

| | | |
|---|--------------|----------------------------------|
| LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II N. MAIN STREET LAKEPORT, CA. | | |
| SCALE: AS NOTED | APPROVED BY: | DRAWN BY: NRA |
| DATE: FEB. 2016 | | REVIEWED BY: CAM |
| PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN DETAILS | | |
| CITY OF LAKEPORT | | DRAWING NUMBER T-3 OF 70 SHTS |

BID SET