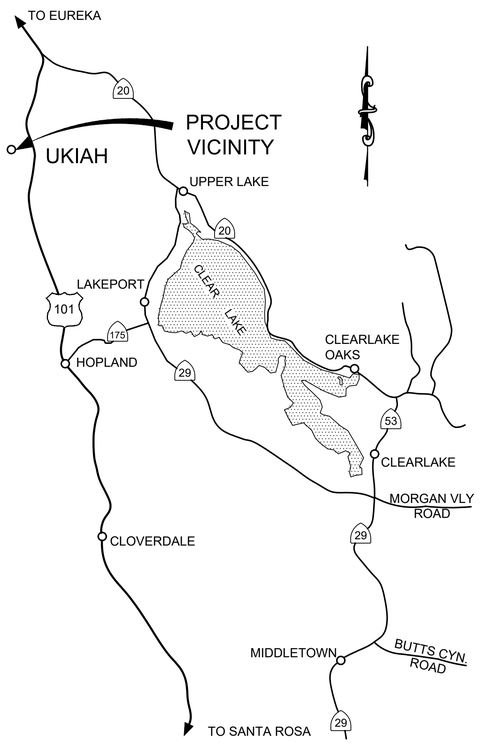
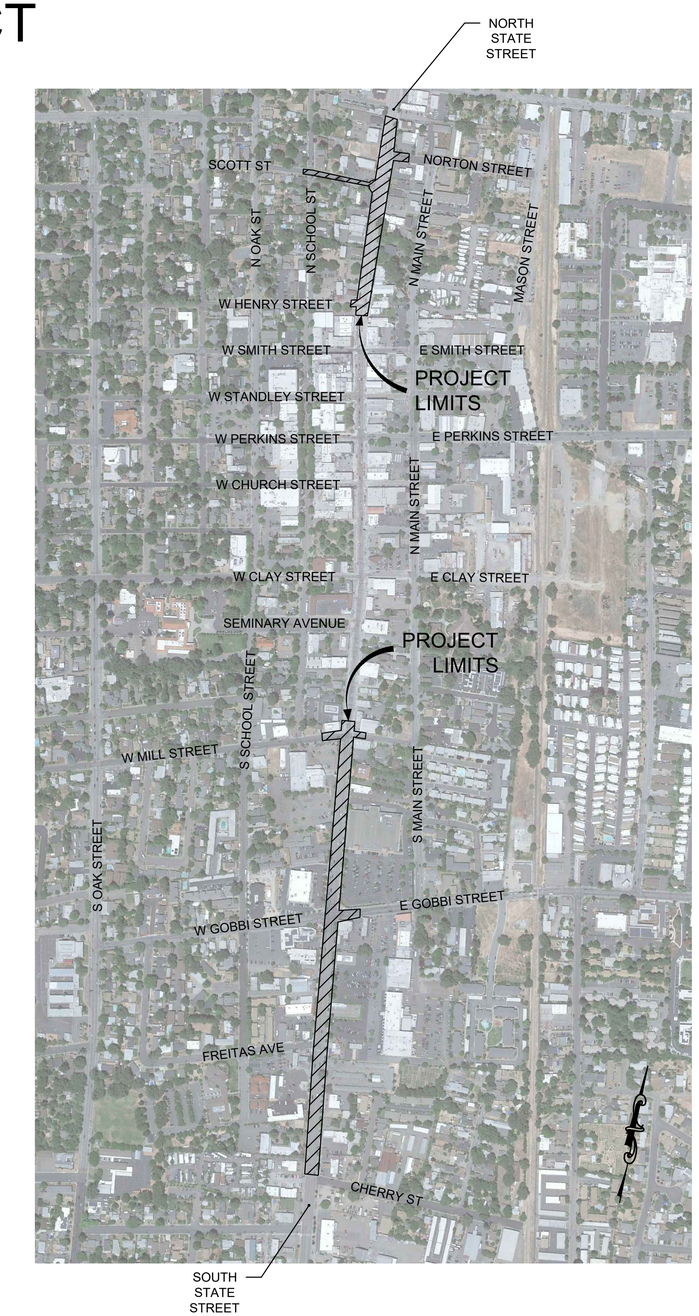
ATTACHMENT 1

CITY OF UKIAH
UKIAH DOWNTOWN
STREETSCAPE PHASE II PROJECT

CONTRACT NO. 2021-179
FEBRUARY 2023



VICINITY MAP
NTS



APPROVED BY: _____ DATE: _____

TIM ERIKSEN, PE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
CITY OF UKIAH, CA

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REGISTERED PROFESSIONAL ENGINEER
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Exp. 9/30/23
CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND
ROAD DIET PROJECT - PHASE II

TITLE SHEET

PROJ NO: 11225278
DRWN: AJP CHKD: JS

G-001

SHEET 1 OF 107

2023-02-22 5:24 PM JPARK2
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DRAWING DESIGNATION:

C - 1 0 1

DISCIPLINE — SHEET TYPE — INDIVIDUAL DRAWING NUMBER

LETTER	DISCIPLINE
G	GENERAL
EX	EXISTING CONDITION
D	DEMOLITION
EC	EROSION CONTROL
U	UTILITY
C	CIVIL
S	SIGNAL
E	ELECTRICAL
LM	LANDSCAPE MATERIALS & FURNISHINGS
LP	LANDSCAPE PLANTING
IP	IRRIGATION
P	STRIPING AND SIGNING
T	TRAFFIC SIGNAL

NUMBER	SHEET TYPE
0	GENERAL
1	PLANS AND TRAFFIC SIGNAL SCHEDULES
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	DIAGRAMS

PROJECT SCOPE:

WORK TO BE PERFORMED IS WITHIN THE CITY OF UKIAH AND GENERALLY CONSISTS OF TRANSPORTATION AND PEDESTRIAN IMPROVEMENTS ON STATE STREET BETWEEN GOBBI ST AND MILL ST AND BETWEEN HENRY ST AND NORTON ST. WORK INCLUDES DEMOLITION OF SIDEWALKS, CURB AND GUTTER AND COLD PLANING THE EXISTING ROADWAY SURFACE, ALONG WITH CONSTRUCTION OF NEW CURB AND GUTTER, BULB-OUTS, SIDEWALK, ACCESSIBLE CURB RAMPS, ASPHALT OVERLAY, SEWER AND WATER MODIFICATIONS, STREET LIGHTING, LANDSCAPING AND TRAFFIC SIGNAL MODIFICATIONS.

GOVERNING AGENCIES:

DIVISION OF STATE ARCHITECT
ACCESS COMPLIANCE SECTION (DSA/ACS)
1515 CLAY STREET, SUITE 1201
OAKLAND, CA 94612
(510) 622-3127

CITY OF UKIAH
300 SEMINARY AVE
UKIAH, CA 95482
(707) 463-6200

CALTRANS
DIVISION OF LOCAL ASSISTANCE, DISTRICT 1
PO BOX 3700
EUREKA, CA 95502
(707) 441-3977

CALIFORNIA WATER BOARDS
NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD
5550 SKYLANE BLVD. SUITE A
SANTA ROSA, CA 95403

APPLICABLE CODES:

CITY OF UKIAH STANDARD PLANS

2015 STANDARD SPECIFICATIONS AND STANDARD PLANS
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DESIGN REVISION 4 (CA MUTCD REVISION 4)

2018 POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS MANUAL

2016 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS
(CCR) TITLE 24, PART 2

2016 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS
(CCR) TITLE 24, PART 3

2010 AMERICANS WITH DISABILITIES ACT (ADA)
STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

2017 STORM WATER LOW IMPACT DEVELOPMENT TECHNICAL DESIGN MANUAL

SECTION IDENTIFICATION:

SECTION IDENTIFIER — A-A
DWG ON WHICH SECTION APPEARS — C-101

DETAIL IDENTIFICATION:

DETAIL IDENTIFIER — A
DWG ON WHICH DETAIL APPEARS — C-101

CITY STANDARD IDENTIFICATION:

CITY STANDARD IDENTIFIER — 100
DWG ON WHICH DETAIL APPEARS — C-101

SCALE
0' 300' 600' 900'
1" = 300'

KEY MAP:

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

SHEET INDEX AND KEY MAP

PROJ NO: 11225278
DRWN: AJP CHKD: JS

G-002

SHEET 2 OF 107

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GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 CALTRANS STANDARD PLANS AND SPECIFICATIONS, CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CITY OF UKIAH SPECIFICATIONS, CITY OF UKIAH STANDARD DRAWINGS AND THE PROJECT CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
2. THE CONTRACTOR SHALL PROVIDE, PROCURE AND PAY FOR ALL PERMITS REQUIRED TO EXECUTE AND COMPLETE THE WORK. THESE INCLUDE, BUT ARE NOT LIMITED TO A CITY OF UKIAH ENCROACHMENT PERMITS, CURRENT CITY OF UKIAH BUSINESS LICENSE, AND A VALID AND PROPER CONTRACTOR'S CLASS "A" LICENSE. ENCROACHMENT PERMITS MUST BE LOCATED ON THE JOB SITE DURING WHICH TIME CONTRACTOR IS WORKING THERE.
3. LOCATION OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A) A MINIMUM OF TWO WORKING DAYS PRIOR TO LOCATE ALL UTILITIES IN ADVANCE OF ANY EXCAVATION. DIAL (TOLL FREE) 811 OR 1-800-227-2600.
4. CONTRACTOR TO POTHOLE ALL UNDERGROUND UTILITIES A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF ANY EXCAVATION PER THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE 4216. THIS COST WILL BE INCLUDED IN THE PIPE INSTALLATION. THE POTHOLING REQUIRES A LOG SUBMITTED TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF THE UTILITY, TYPE, SIZE, PIPE MATERIAL, AND DEPTH TO THE BOTTOM AND TOP OF THE UTILITY. IF UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATED A MARKED UTILITY AFTER POTHOLING, IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
5. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES UNLESS ENCROACHMENT PERMIT SPECIFIES OTHERWISE.
6. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS THAT ARE NOT SPECIFIED FOR REPLACEMENT. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 140.
7. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE NEW AND OF A QUALITY EQUAL TO THAT SPECIFIED OR APPROVED. WORK SHALL BE COMPLETED IN A THOROUGH AND WORKMANLIKE MANNER.
8. WHENEVER ANY MATERIAL OR EQUIPMENT IS INDICATED OR SPECIFIED BY PATENT OR PROPRIETARY NAME OR BY THE NAME OF THE MANUFACTURER, SUCH SPECIFICATION SHALL BE CONSIDERED AS USED FOR DESCRIBING THE MATERIAL OR EQUIPMENT DESIRED AND SHALL BE CONSIDERED AS FOLLOWED BY THE WORDS "OR APPROVED EQUIVALENT". THE CONTRACTOR MAY OFFER A MATERIAL OR EQUIPMENT WHICH SHALL BE EQUIVALENT IN EVERY RESPECT TO THAT SPECIFIED; PROVIDED THAT WRITTEN APPROVAL FIRST IS OBTAINED FROM THE ENGINEER.
9. MATERIALS SHALL BE SO STORED TO ENSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK. THEY SHALL BE SO LOCATED AND DISPOSED THAT PROMPT AND PROPER INSPECTION THEREOF MAY BE MADE.
10. THE CITY SHALL HAVE THE RIGHT TO TAKE POSSESSION OF AND USE ANY COMPLETED OR PARTIALLY COMPLETED PORTIONS OF THE WORK. NOT WITHSTANDING THE TIME FOR COMPLETING THE ENTIRE WORK OF SUCH PORTIONS WHICH MAY NOT HAVE EXPIRED; BUT SUCH TAKING POSSESSION AND USE SHALL NOT BE DEEMED AN ACCEPTANCE OF ANY WORK NOT COMPLETED IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS. IF SUCH PRIOR USE INCREASES THE COST OF OR DELAYS THE WORK, THE CONTRACTOR SHALL BE ENTITLED TO SUCH EXTRA COMPENSATION, OR EXTENSION OF TIME OR BOTH, AS THE ENGINEER MAY DETERMINE.
11. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY AND ITS REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL AND/OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF THIS PROJECT.
12. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
13. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING FEATURES, STRUCTURES AND UTILITIES DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
14. ALL CONCRETE SHALL BE SAW CUT AND REMOVED ALONG EXISTING SCORE LINES, UNLESS NOTED OTHERWISE.
15. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO FINISH GRADE WITHIN 48 HOURS OF PAVING. ANY DAMAGES TO THE CITY OR OTHER UTILITIES CAUSED BY CONTRACTOR OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
16. CONTRACTOR SHALL VERIFY LOCATIONS, LEVELS, DISTANCES, AND FEATURES THAT MAY AFFECT THE WORK. SHOULD EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR INDICATED, OR IF IT APPEARS THAT THESE PLANS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE WILL BE MADE IN HIS BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
17. ALL PIPE LENGTHS ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURES.
18. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
19. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF COMMENCEMENT OF ANY PART OF THE WORK.
20. CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION PER SECTION 7-1.03 AND 7-1.04 OF THE STANDARD SPECIFICATIONS.
21. CAUTION SHALL BE EXERCISED WHEN EXCAVATING WITHIN THE DRIPLINE OF ANY TREE SHOWN ON THE PLANS TO BE PROTECTED. ROOTS LARGER THAN 2 INCHES SHALL NOT BE CUT WITHOUT PERMISSION FROM THE ENGINEER.
22. ALL LANDSCAPING AND IRRIGATION SYSTEMS OR OTHER PRIVATE OR PUBLIC IMPROVEMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN KIND AS DIRECTED BY THE ENGINEER.
23. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS AT THE COMPLETION OF CONSTRUCTION PER CITY REQUIREMENTS.
24. COMPACT FILL AREAS AND TOP 6" OF CUT AREAS TO 95% OF MAXIMUM DENSITY AS MEASURED BY ASTM D1557. CONTRACTOR SHALL IMPORT ACCEPTABLE MATERIALS AS NECESSARY.
25. ALL GRADES SHOWN ARE FINISH GRADES. ALLOW FOR VARYING THICKNESS OF BASE, PAVING, AND CONCRETE IN PREPARING SUBGRADE.
26. CONTRACTOR SHALL OBTAIN A TRENCH SAFETY PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH GREATER THAN 5-FEET DEEP.

ELECTRICAL NOTES:

1. ALL TRENCHING, BACKFILLING, AND INSTALLATION OF ELECTRIC STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF UKIAH ELECTRIC DEPARTMENT'S CURRENT STANDARD PRACTICES. THE CONTRACTOR SHALL INSTALL ALL CONDUITS, VAULTS, PULL BOXES AND PULL-IN TAPE, AND ALL ASSOCIATED MATERIAL. TRENCH ALIGNMENTS AND EXCAVATION LIMITS MAY BE ADJUSTED IN THE FIELD BY THE CITY TO AVOID EXISTING FACILITIES.
2. THE CONTRACTOR SHALL POTHOLE ALL UNDERGROUND UTILITIES LOCATIONS TO DETERMINE EXACT DEPTH PRIOR TO TRENCHING. CALL UNDERGROUND SERVICE ALERT (USA) 48 HOURS IN ADVANCE AT 811 OR 1-800-227-2600.
3. THE CONTRACTOR SHALL CALL THE CITY OF UKIAH ELECTRIC DEPARTMENT AT LEAST 48 HOURS IN ADVANCE FOR INSPECTIONS OF ALL CONDUIT, TRENCHING AND GROUNDING, PRIOR TO BACKFILL. NORMAL WORK HOURS ARE MONDAY THROUGH THURSDAY. CONTRACTOR SHALL PAY ALL OVERTIME PREMIUMS ASSOCIATED WITH INSPECTIONS OUTSIDE OF THE NORMAL WORKDAY/WORKWEEK.
4. ANY CHANGES TO THE APPROVED CONTRACT DOCUMENTS MUST BE APPROVED BY THE CITY OF UKIAH ELECTRIC DEPARTMENT REPRESENTATIVE IN WRITING (JIM LOZANO 707-467-2823).
5. THE CONTRACTOR SHALL SHORE ALL TRENCHES 5 FEET IN DEPTH OR GREATER. SHORING SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL WATER AND DEBRIS FROM NEWLY INSTALLED CONDUITS. CONDUITS SHALL BE FREE OF DIRT, ROCKS AND OTHER OBSTRUCTIONS, THAT MAY HINDER OR HARM THE INSTALLATION OF ELECTRICAL CONDUCTORS. ALL NEWLY INSTALLED CONDUITS SHALL BE PROVED WITH MANDREL AND PULL/MULE TAPE (NO SPLICES) INSTALLED WITH A MINIMUM OF 2500 LB OF TENSILE STRENGTH, APPROVED BY THE CITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR CONDITION OF ALL SUBSTRUCTURES (FOR EXAMPLE, TRENCH SETTLEMENT, DAMAGED SUBSTRUCTURES ETC) UNTIL ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE PROJECT SWPPP, THE STORMWATER POLLUTION PREVENTION PLAN AND WATER POLLUTION CONTROL PROGRAM PREPARATION MANUAL (JUNE 2011), THE CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL AND THE CONSTRUCTION SITE MONITORING PROGRAM GUIDANCE MANUAL.
2. THE CONTRACTOR SHALL EXERCISE CARE DURING CLEARING AND GRADING OPERATIONS TO MINIMIZE EROSION AND SEDIMENT TRANSPORT OFF SITE.
3. THE CONTRACTION SHALL CONDUCT ALL OPERATIONS SO AS TO PREVENT ANY UNNECESSARY DISTURBANCE OF SOIL OR EXISTING VEGETATION.
4. THE CITY IS RESPONSIBLE FOR COMPLYING WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000002 WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE THROUGH THE DEVELOPMENT AND IMPLEMENTATION OF THE PROJECT SWPPP.

TRAFFIC NOTES:

1. CONTRACTOR SHALL SUBMIT CONSTRUCTION TRAFFIC CONTROL PLAN TO THE CITY OF UKIAH FOR REVIEW AND APPROVAL A MINIMUM OF (2) WEEKS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY. THE TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND PREPARED BY A LICENSED CIVIL OR TRAFFIC ENGINEER.
2. TRAFFIC SIGNAL(S) SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION, EXCEPT WHEN REWIRING THE TRAFFIC SIGNAL TO ACCOMPLISH THE SIGNAL MODIFICATIONS AS SHOWN ON THE PLANS. TRAFFIC SIGNAL SHUT-DOWNS SHALL BE COORDINATED WITH THE CITY A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF THE SHUT-DOWN. TRAFFIC SIGNAL SHUT-DOWNS SHALL BE APPROVED IN WRITING BY THE CITY. TRAFFIC SIGNAL SHUT-DOWNS AND RELATED WORK SHALL BE PERFORMED AT NIGHT BETWEEN THE HOURS 10:00 PM AND 6:00 AM. CONTRACTOR SHALL SUBMIT A LOCATION SPECIFIC TRAFFIC CONTROL PLAN AND PROVIDE ALL NECESSARY TEMPORARY TRAFFIC CONTROL EQUIPMENT, FLAGGERS, LIGHTING AND CONTROL DEVICES TO MAINTAIN TRAFFIC DURING TRAFFIC SIGNAL WORK.
3. ALL SIGNAL LOOP WIRING TO REMAIN IN SERVICE SHALL BE REPAIRED OR REPLACED IF SAWCUT OR DAMAGED.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS

SEWER CONSTRUCTION NOTES:

1. CONTRACTOR MUST LOCATE THE EXISTING SANITARY SEWER CLEANOUT AND PRIVATE/PUBLIC SANITARY SEWER LATERAL AT EACH PARCEL PRIOR TO SANITARY SEWER CONSTRUCTION.
2. NEW SEWER MAINS ARE TO BE CLEANED AND FREE OF DEBRIS, BY MEANS OF AN APPROVED METHOD (E.G. RUBBER BALL WASHED THROUGH, HYDRO-CLEANER ETC.) PRIOR TO TESTS FOR LEAKAGE AND DEFLECTION.
3. PIPE DEFLECTION SHALL BE TESTED BY USE OF A STEEL MANDREL WITH MAXIMUM ALLOWABLE DEFLECTION OF 5%. CONTRACTOR SHALL PROVIDE A STEEL MANDREL AT THE JOBSITE FOR EVERY DIAMETER OF SEWER MAIN CONSTRUCTED. SEE DETAIL 1 ON DRAWING U-502.
4. SEWER MAINS SHALL BE TESTED FOR SOUNDNESS AND TIGHTNESS (LEAKAGE) BY THE USE OF LOW-PRESSURE AIR TEST OR A HYDROSTATIC TEST WITH A MINIMUM OF 10' OF HEAD AND ANY PORTION OF THE MAIN TO BE TESTED. CONTRACTOR SHALL HAVE ON-SITE, A MEANS BY WHICH TO TEST THE MAIN.
5. MANHOLES SHALL BE COATED INSIDE WITH ONE (1) COAT OF THORO-SEAL, XPEX, OR APPROVED EQUAL.
6. MANHOLES SHALL BE SUBJECT TO HYDROSTATIC TESTS, BY FILLING WITH WATER AND MEASURING THE DROP IN WATER LEVEL OVER A 30 MINUTE PERIOD. PRIOR TO THE 30 MINUTE TEST, MANHOLES SHALL BE FILLED WITH WATER FOR A MINIMUM OF 24 HOUR PERIOD.
7. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD DRAWING NO. 220, PRIOR TO TESTS FOR LEAKAGE AND DEFLECTION.
8. INSTALL ALL (N) SEWER MAINS AND LATERALS IN TRENCHES IN ACCORDANCE WITH CITY STD 220.

WATER CONSTRUCTION NOTES:

1. METER BOXES AND VAULTS SHALL BE SET SO THAT THE READING LIDS ARE ALIGNED OVER THE METER REGISTERS AS CLOSELY AS POSSIBLE.
2. INSTALL ALL (N) WATER MAINS IN TRENCHES IN ACCORDANCE WITH CITY STD 320.

ABBREVIATIONS:

APN	ASSESSOR'S PARCEL NUMBER
BC	BEGIN CURVE
BFP	BACK FLOW PREVENTER
BOT	BOTTOM
BSW	BACK OF SIDEWALK
C	CONDUIT
CATV	CABLE TELEVISION
CB	CATCH BASIN
CHKD	CHECKED
CLSM	CONTROLLED LOW-STRENGTH MATERIAL
COM	COMMUNICATION
CR	CURB RETURN
D	DISTANCE, DEPTH
DI	DROP INLET
DEPT	DEPARTMENT
DRWN	DRAWN
DWG	DRAWING
DWY	DRIVEWAY
(E)	EXISTING
EB	ELECTRIC BOX
EC	END CURVE
EG	EXISTING GRADE
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
EQ	EQUIVALENT
E.V.	ELECTRICAL VAULT
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
FT	FOOT/FEET
FSW	FRONT OF SIDEWALK
G	GAS
GB	GRADE BREAK
HDPE	HIGH DESITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HP	HINGE POINT
I.D.	INSIDE DIAMETER
IN	INCH/INCHES
INV	INVERT
IRR	IRRIGATION
IP	IRON PIPE
JP	JOINT POLE
JP W/UG	JOINT POLE WITH UNDERGROUND
JT	JOINT TRENCH
L	LEFT, LENGTH
LG	LIP OF GUTTER
MH	MANHOLE
MON	MONUMENT
(N)	NEW
O.C.	ON CENTER
OFF	OFFSET
OH	OVER HEAD ELECTRIC
PB	PULL BOX
PERF	PERFORATED
POLY	POLYETHYLENE
PROJ	PROJECT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYLCHLORIDE
R	RADIUS, RIGHT
R.C.	RELATIVE COMPACTION
SL	STREET LIGHT
SS	SANITARY SEWER
STD.	STANDARD
STD. XX	CALTRANS STANDARD PLAN NUMBER
STA	STATION
TC	TOP OF CURB
TEL	TELEPHONE/TELECOMMUNICATION
TYP	TYPICAL
UG	UNDERGROUND
VAR	VARIES
W	WATER
WM	WATER METER
WV	WATER VALVE
XFMR	TRANSFORMER

NOTE: 1. SOME ABBREVIATIONS MAY BE USED IN COMBINATION.
2. REFER TO CURRENT CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ADDITIONAL ABBREVIATIONS NOT LISTED.

LEGEND:

EXISTING		NEW
	DRAIN INLET/CATCH BASIN	
S	SANITARY SEWER MANHOLE	
	STORM DRAIN MANHOLE	
	CULVERT	
	WATER VALVE	
	MISC UTILITY	
	UTILITY BOX	
	FIRE HYDRANT	
	TRAFFIC SIGNAL POLE	
	POWER POLE	
	POLE WITH LIGHT	
	GUY WIRE	
	POST	
	TREE	
	MARSH	
	CITY MONUMENT	
	SIGN	
	TRAFFIC SIGNAL	
T	TRANSFORMER	
E	ELECTRICAL VAULT	
X	CHAINLINK FENCE	
	ESA FENCE	
	ADA RAMP	
	STORM DRAIN SUBDRAIN	
8"W	WATER	
W	WATER ABANDONED	
6"SS / 10" SS	SEWER	
	STORM DRAIN	12" SD
	STORM DRAIN INLET	
4"G	GAS	
JT	JOINT TRENCH	
COM	COMMUNICATION	
E	UNDERGROUND ELECTRIC	E
OH	OVERHEAD UTILITY	
	SIDEWALK, CURB, AND GUTTER	
	GUTTER FLOW DIRECTION	
585	TOPOGRAPHIC CONTOUR	585
	RIGHT-OF-WAY	
	PUBLIC UTILITY EASEMENT	
	PUBLIC EASEMENT	
B1	BORING LOCATION	
PH1	POTHOLE LOCATION	
	FLAG POLE SLEEVE	
	PARKING METER POST	PM

NOTE: SEE LANDSCAPE PLANS FOR ADDITIONAL LEGEND INFO.

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MARK	DATE	DESCRIPTION
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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

NOTES, LEGEND AND ABBREVIATIONS

PROJ NO: 11225278
DRWN: AJP CHKD: JS

G-003

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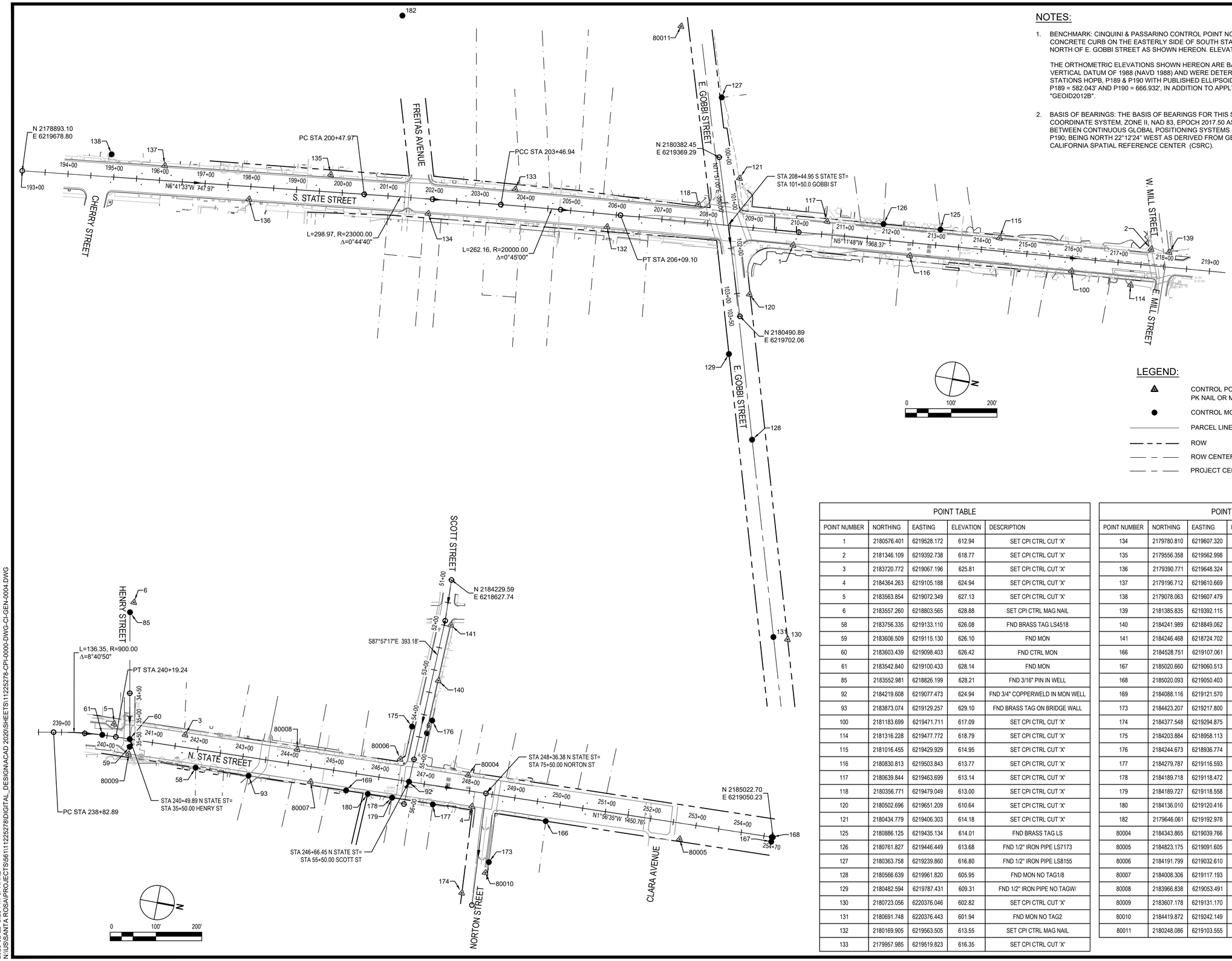

NOTES:

1. BENCHMARK: CINQUINI & PASSARINO CONTROL POINT NO. 1, BEING A SET CUT 'X' ON THE TOP OF CONCRETE CURB ON THE EASTERLY SIDE OF SOUTH STATE STREET, APPROXIMATELY 100± FEET NORTH OF E. GOBBI STREET AS SHOWN HEREON. ELEVATION = 612.93' (NAVD 88).

   THE ORTHOMETRIC ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND WERE DETERMINED BY STATIC GPS TIES TO CGPS STATIONS HOPB, P189 & P190 WITH PUBLISHED ELLIPSOIDAL HEIGHTS OF HOPB =1160.485, P189 = 582.043' AND P190 = 666.932', IN ADDITION TO APPLYING THE NGS GEOID HEIGHT MODEL "GEOID2012B".

2. BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE II, NAD 83, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING SYSTEMS (CGPS) STATION HOPB AND STATION P190; BEING NORTH 22°12'24" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

LEGEND:

- CONTROL POINT, PK NAIL OR MAG NAIL OR LEAD & TACK OR CUT "X"
- CONTROL MONUMENT
- PARCEL LINE
- ROW
- ROW CENTERLINE
- PROJECT CENTERLINE

POINT TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2180576.401	6219528.172	612.94	SET CPI CTRL CUT 'X'
2	2181346.109	6219392.738	618.77	SET CPI CTRL CUT 'X'
3	2183720.772	6219067.196	625.81	SET CPI CTRL CUT 'X'
4	2184364.263	6219105.188	624.94	SET CPI CTRL CUT 'X'
5	2183563.854	6219072.349	627.13	SET CPI CTRL CUT 'X'
6	2183557.260	6218803.565	628.88	SET CPI CTRL MAG NAIL
58	2183756.335	6219133.110	626.08	FND BRASS TAG LS4518
59	2183606.509	6219115.130	626.10	FND MON
60	2183603.439	6219098.403	626.42	FND CTRL MON
61	2183542.840	6219100.433	628.14	FND MON
85	2183552.981	6218826.199	628.21	FND 3/16" PIN IN WELL
92	2184219.608	6219077.473	624.94	FND 3/4" COPPERWELD IN MON WELL
93	2183873.074	6219129.257	629.10	FND BRASS TAG ON BRIDGE WALL
100	2181183.699	6219471.711	617.09	SET CPI CTRL CUT 'X'
114	2181316.228	6219477.772	618.79	SET CPI CTRL CUT 'X'
115	2181016.455	6219429.929	614.95	SET CPI CTRL CUT 'X'
116	2180830.813	6219503.843	613.77	SET CPI CTRL CUT 'X'
117	2180639.844	6219463.699	613.14	SET CPI CTRL CUT 'X'
118	2180356.771	6219479.049	613.00	SET CPI CTRL CUT 'X'
120	2180502.696	6219651.209	610.64	SET CPI CTRL CUT 'X'
121	2180434.779	6219406.303	614.18	SET CPI CTRL CUT 'X'
125	2180886.125	6219435.134	614.01	FND BRASS TAG LS
126	2180761.827	6219446.449	613.68	FND 1/2" IRON PIPE LS7173
127	2180363.758	6219239.860	616.80	FND 1/2" IRON PIPE LS8155
128	2180566.639	6219961.820	605.95	FND MON NO TAG1/8
129	2180482.594	6219787.431	609.31	FND 1/2" IRON PIPE NO TAGW/
130	2180723.056	6220376.046	602.82	SET CPI CTRL CUT 'X'
131	2180691.748	6220376.443	601.94	FND MON NO TAG2
132	2180169.905	6219563.505	613.55	SET CPI CTRL MAG NAIL
133	2179957.985	6219519.823	616.35	SET CPI CTRL CUT 'X'

POINT TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
134	2179780.810	6219607.320	615.82	SET CPI CTRL CUT 'X'
135	2179556.358	6219562.998	616.50	SET CPI CTRL CUT 'X'
136	2179390.771	6219648.324	615.13	SET CPI CTRL MAG NAIL
137	2179196.712	6219610.669	615.39	SET CPI CTRL CUT 'X'
138	2179078.063	6219607.479	615.95	FND 1/2" IRON PIPE NO TAGYELLOW
139	2181385.835	6219392.115	618.97	SET CPI CTRL CUT 'X'
140	2184241.989	6218849.062	626.37	SET CPI CTRL CUT 'X'
141	2184246.468	6218724.702	626.81	SET CPI CTRL CUT 'X'
166	2184528.751	6219107.061	625.06	FND MON LEAD
167	2185020.660	6219060.513	625.89	FND MON NO TAGWELL
168	2185020.093	6219050.403	625.47	FND MON NO TAGWELL
169	2184088.116	6219121.570	625.29	FND 3/4" IRON PIPE NO TAG
173	2184423.207	6219217.800	622.55	FND 1/2" IRON PIPE LSLS
174	2184377.548	6219294.875	621.76	SET 1/2" IRON PIPE RCE
175	2184203.884	6218958.113	626.38	FND 3/4" IRON PIPE NO TAG
176	2184244.673	6218936.774	625.81	FND 1/2" IRON PIPE NO TAG
177	2184279.787	6219116.593	625.12	FND 3/4" IRON PIPE NO TAG
178	2184189.718	6219118.472	625.52	FND 3/4" IRON PIPE NO TAG
179	2184189.727	6219118.558	625.53	FND 1/2" IRON PIPE NO TAG
180	2184136.010	6219120.416	625.68	FND BRASS TAG LSRCE
182	2179646.061	6219192.978	620.78	FND PIN NO CAPWELL
80004	2184343.865	6219039.766	625.13	SET CPI CTRL CUT 'X'
80005	2184823.175	6219091.605	625.61	SET CPI CTRL CUT 'X'
80006	2184191.799	6219032.610	626.03	SET CPI CTRL CUT 'X'
80007	2184008.306	6219117.193	625.56	SET CPI CTRL CUT 'X'
80008	2183966.838	6219053.491	625.53	SET CPI CTRL CUT 'X'
80009	2183607.178	6219131.170	626.69	SET CPI CTRL CUT 'X'
80010	2184419.872	6219242.149	622.88	SET CPI CTRL CUT 'X'
80011	2180248.086	6219103.555	620.66	SET CPI CTRL CUT 'X'

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

SURVEY CONTROL DIAGRAM

PROJ NO: 11225278

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G-004

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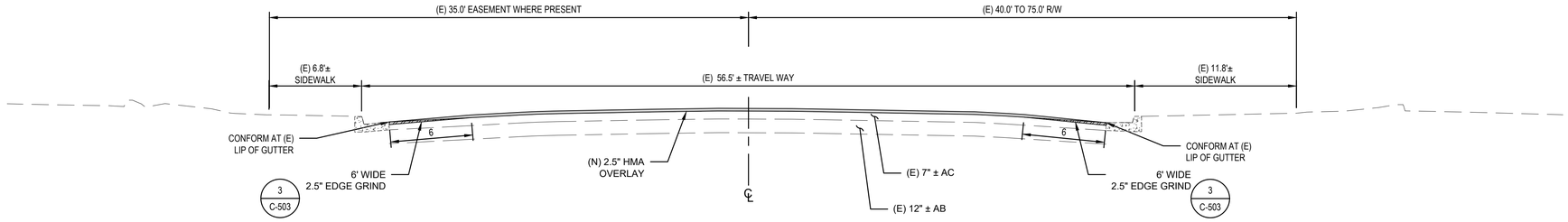

A PAVEMENT OVERLAY - S STATE STREET STA 194+25.92 TO STA 207+42.88

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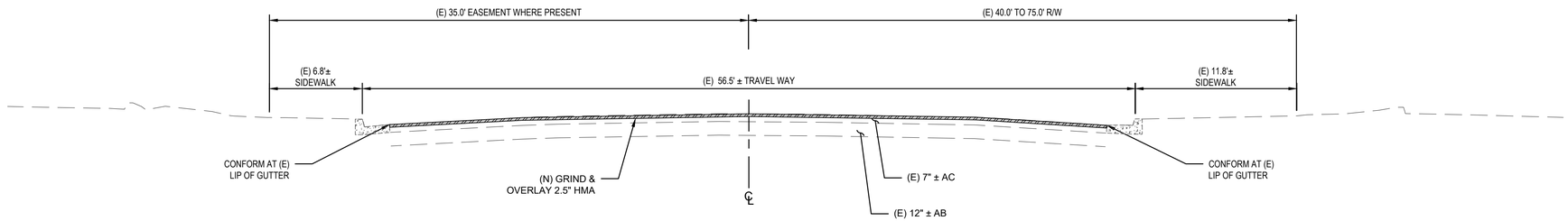

B GRIND & OVERLAY PAVEMENT - S STATE STREET STA 207+42.88 TO STA 210+72.60

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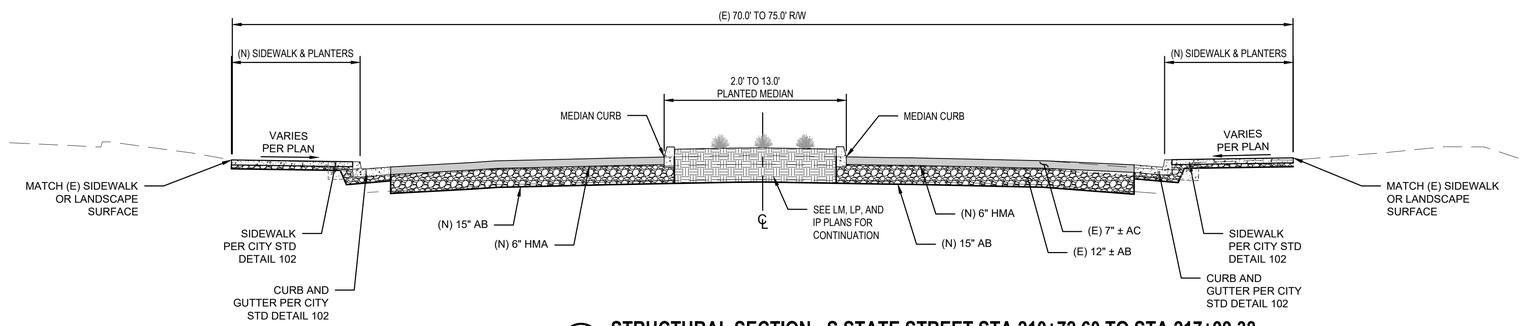

C STRUCTURAL SECTION - S STATE STREET STA 210+72.60 TO STA 217+99.38

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TYPICAL SECTIONS -1

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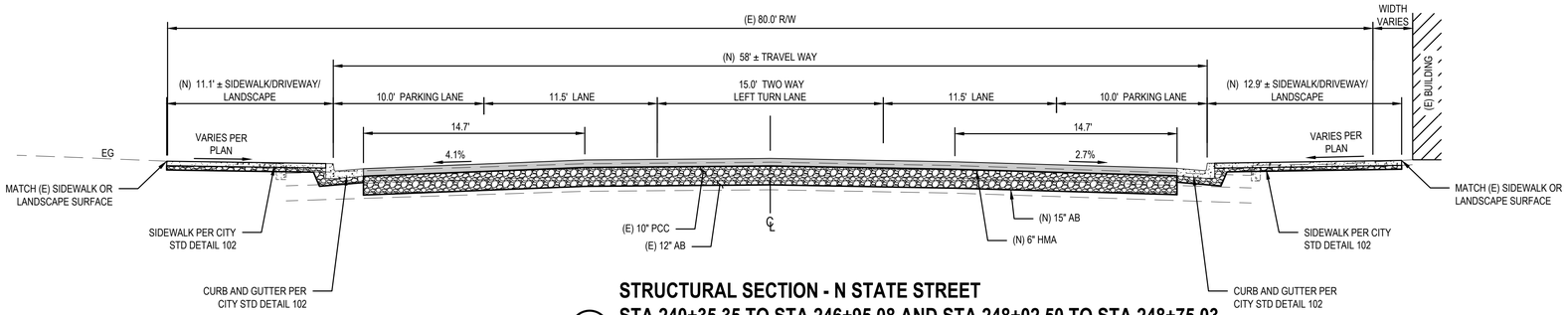

STRUCTURAL SECTION - N STATE STREET
STA 240+35.35 TO STA 246+95.08 AND STA 248+02.50 TO STA 248+75.03

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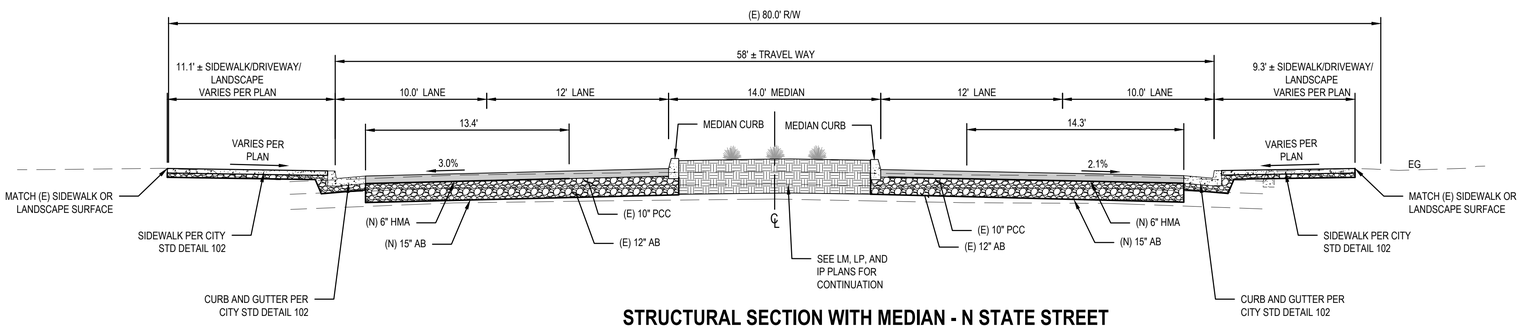

STRUCTURAL SECTION WITH MEDIAN - N STATE STREET
STA 246+95.08 TO STA 248+75.03

E

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TYPICAL SECTIONS -2

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DRWN: ME CHKD: JS

G-006

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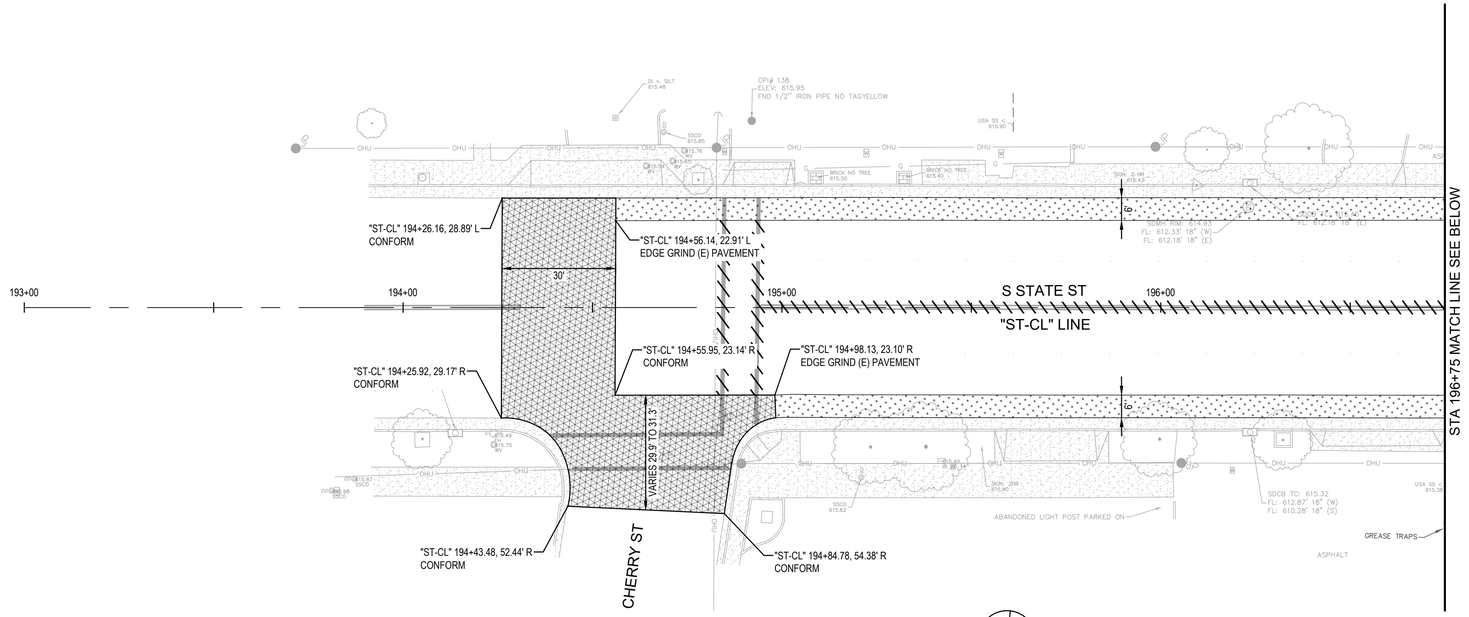
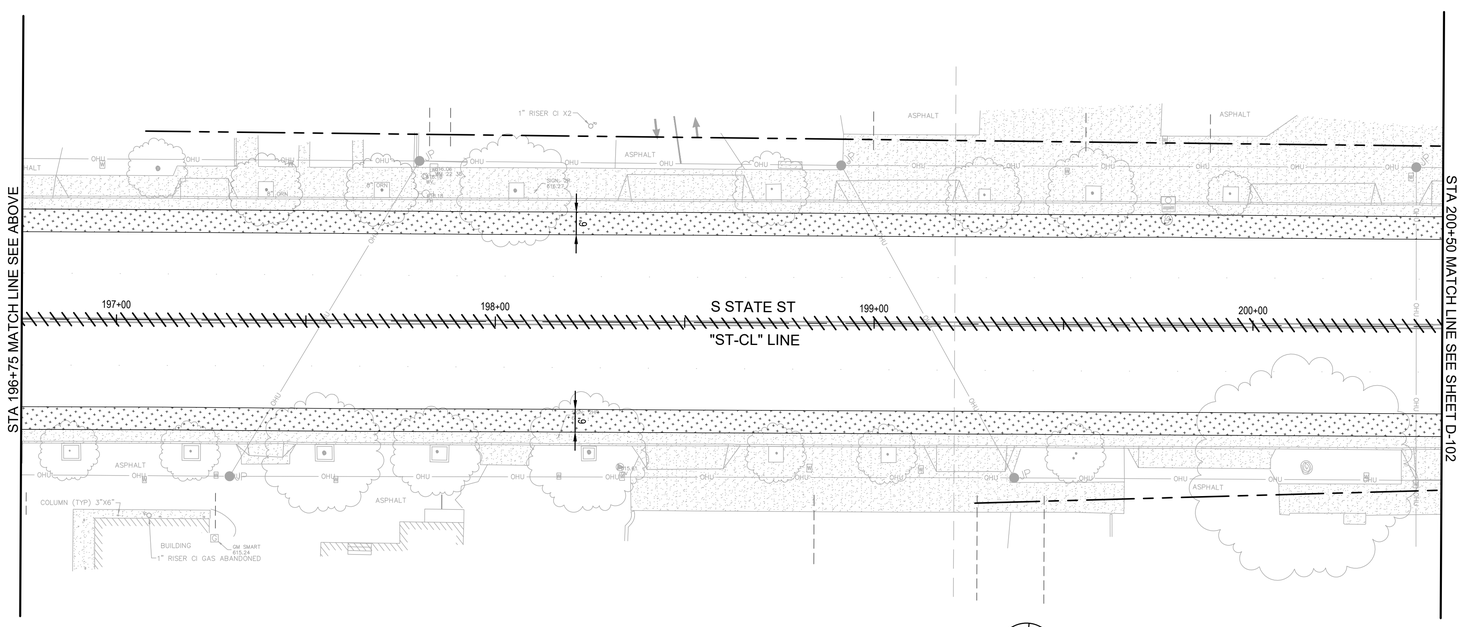


DEMOLITION PLAN S STATE STREET

SCALE: 1" = 20'



DEMOLITION PLAN S STATE STREET

SCALE: 1" = 20'

SHEET GENERAL NOTES

1. LOCATION OF EXISTING UTILITIES, STRUCTURES, AND OBSTACLES SHOWN ON THE PLANS ARE FROM AVAILABLE RECORD INFORMATION. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.
2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (USA) AT (800) 227-2600 OR 811 A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR PLANNED WORK OPERATIONS FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES.
3. CONTRACTOR IS ADVISED OF THE PRESENCE OF SHALLOW STORM DRAINS THROUGHOUT THE PROJECT AREA. STORM DRAINS SHALL BE PROTECTED IN PLACE DURING ALL CONTRACT WORK.
4. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO START OF WORK.
5. EXISTING FEATURES TO BE DEMOLISHED ARE DISPLAYED DARKER ON THIS PLAN.
6. SAWCUT LINES AND LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE. CONTRACTOR MAY ADJUST SAWCUT LINES AND LIMITS OF DEMOLITION AS NECESSARY TO INSTALL PROPOSED IMPROVEMENTS AND CONFORM TO EXISTING MATCH POINTS.
7. SEE TRAFFIC SIGNAL PLANS FOR REMOVAL/OR RELOCATION OF EXISTING TRAFFIC SIGNAL FACILITIES UNLESS OTHERWISE NOTED.
8. SEE UTILITY PLANS FOR EXISTING UNDERGROUND UTILITY INFORMATION AS WELL AS WATER, SEWER, AND STORM DRAIN DEMOLITION LIMITS AND FOR EXISTING MANHOLES, VALVES, AND BOXES THAT NEED TO BE ADJUSTED TO FINISHED GRADE.
9. SEE ELECTRICAL PLANS FOR DETAILS REGARDING MODIFICATIONS TO THE EXISTING STREET LIGHT SYSTEM. STREET LIGHTS TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO THE CITY'S CORP YARD, REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL DETAILS.
10. MONUMENT BOXES TO BE ADJUSTED TO FINISHED GRADE PER LAYOUT PLAN & PROFILE SHEETS AND PER CITY STANDARDS (TYP).
11. REMOVE POLES, SEE UTILITY AND JOINT TRENCH PLANS FOR DETAILS.
12. CONTRACTOR IS RESPONSIBLE FOR PRESERVING THE INTEGRITY OF HARDSCAPE TO BE ADJOINED BY NEW IMPROVEMENTS DURING DEMOLITION ACTIVITIES.

DEMOLITION LEGEND

- REMOVE CONCRETE CURB AND GUTTER, AND CONCRETE FLATWORK
- REMOVE (E) ROADWAY STRUCTURAL SECTION TO REQUIRED DEPTH
- REMOVE (E) CONCRETE PANELS, AGGREGATE BASE, AND SUBGRADE TO REQUIRED DEPTH FOR (N) STRUCTURAL SECTION
- 0.20' MIN COLD PLANE (E) AC PAVEMENT
- REMOVE AC PAVEMENT
- CONFORM GRIND, PER 1/C-503
- EDGE GRIND, PER 3/C-503
- REMOVE STRIPING
- SAWCUT LINE
- REMOVE TREE

SHEET KEYNOTES

1. REMOVE (E) CURB AND GUTTER.
2. REMOVE (E) SIDEWALK, DRIVEWAY AND CURB RAMPS.
3. REMOVE (E) PAVEMENT MARKINGS.
4. REMOVE (E) TREE AND/OR STUMP.
5. REMOVE TREE GRATE.
6. REMOVE (E) TRASH RECEPTACLE.
7. REMOVE OR ABANDON TRAFFIC LOOPS. SEE TRAFFIC SIGNAL PLANS FOR DETAILS.
8. REMOVE (E) STREET LIGHT.
9. REMOVE (E) VERTICAL CURB.

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

DEMOLITION PLAN
S STATE ST STA 193+00 - STA 200+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

D-101

SHEET 7 OF 107

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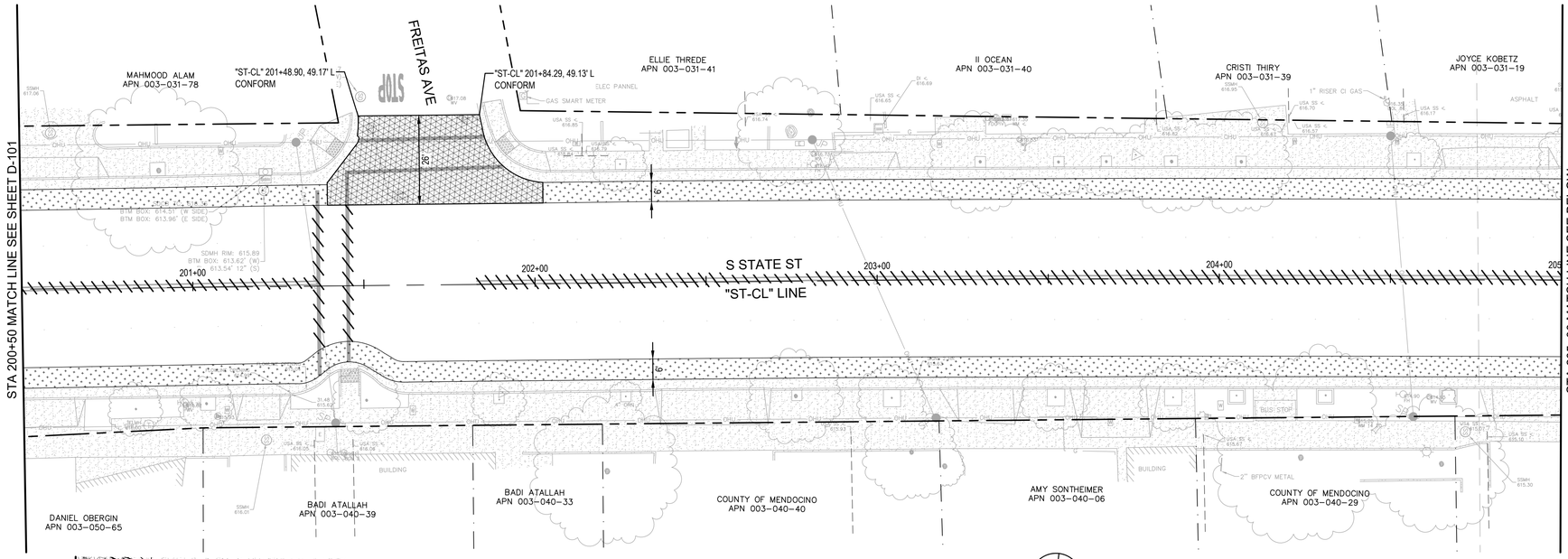
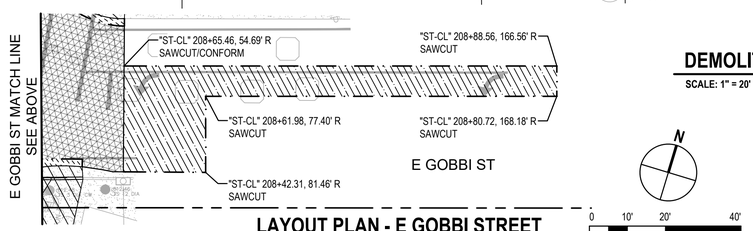


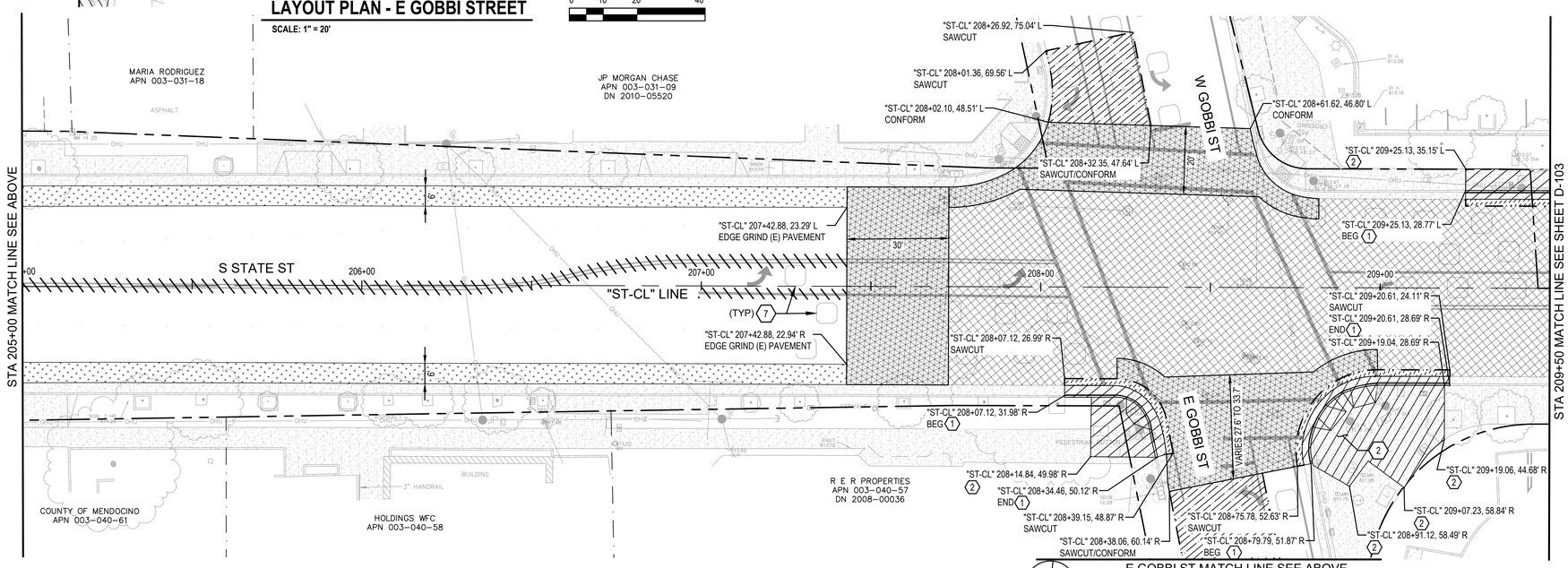
DEMOLITION PLAN S STATE STREET

SCALE: 1" = 20'



LAYOUT PLAN - E GOBBI STREET

SCALE: 1" = 20'



DEMOLITION PLAN S STATE STREET

SCALE: 1" = 20'

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4. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO START OF WORK.
5. EXISTING FEATURES TO BE DEMOLISHED ARE DISPLAYED DARKER ON THIS PLAN.
6. SAWCUT LINES AND LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE. CONTRACTOR MAY ADJUST SAWCUT LINES AND LIMITS OF DEMOLITION AS NECESSARY TO INSTALL PROPOSED IMPROVEMENTS AND CONFORM TO EXISTING MATCH POINTS.
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10. MONUMENT BOXES TO BE ADJUSTED TO FINISHED GRADE PER LAYOUT PLAN & PROFILE SHEETS AND PER CITY STANDARDS (TYP).
11. REMOVE POLES, SEE UTILITY AND JOINT TRENCH PLANS FOR DETAILS.
12. CONTRACTOR IS RESPONSIBLE FOR PRESERVING THE INTEGRITY OF HARDSCAPE TO BE ADJOINED BY NEW IMPROVEMENTS DURING DEMOLITION ACTIVITIES.

DEMOLITION LEGEND

- REMOVE CONCRETE CURB AND GUTTER, AND CONCRETE FLATWORK
- REMOVE (E) ROADWAY STRUCTURAL SECTION TO REQUIRED DEPTH
- REMOVE (E) CONCRETE PANELS, AGGREGATE BASE, AND SUBGRADE TO REQUIRED DEPTH FOR (N) STRUCTURAL SECTION
- 0.20' MIN COLD PLANE (E) AC PAVEMENT
- REMOVE AC PAVEMENT
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- REMOVE STRIPING
- SAWCUT LINE
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SHEET KEYNOTES

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REGISTERED PROFESSIONAL ENGINEER
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Exp. 9/30/23
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STATE OF CALIFORNIA

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0 1"

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MARK	DATE	DESCRIPTION	ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

DEMOLITION PLAN
S STATE ST STA. 200+50 - STA. 209+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

D-102

SHEET 8 OF 107

2023-02-22 5:34 PM JPARK2
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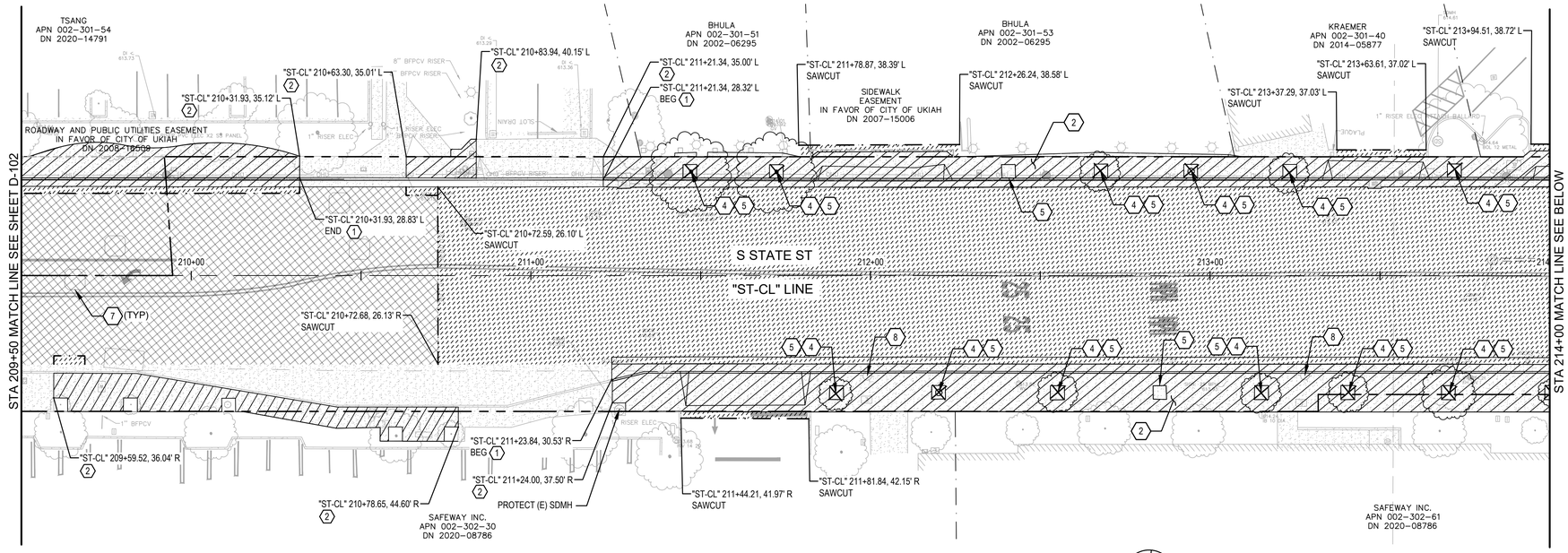
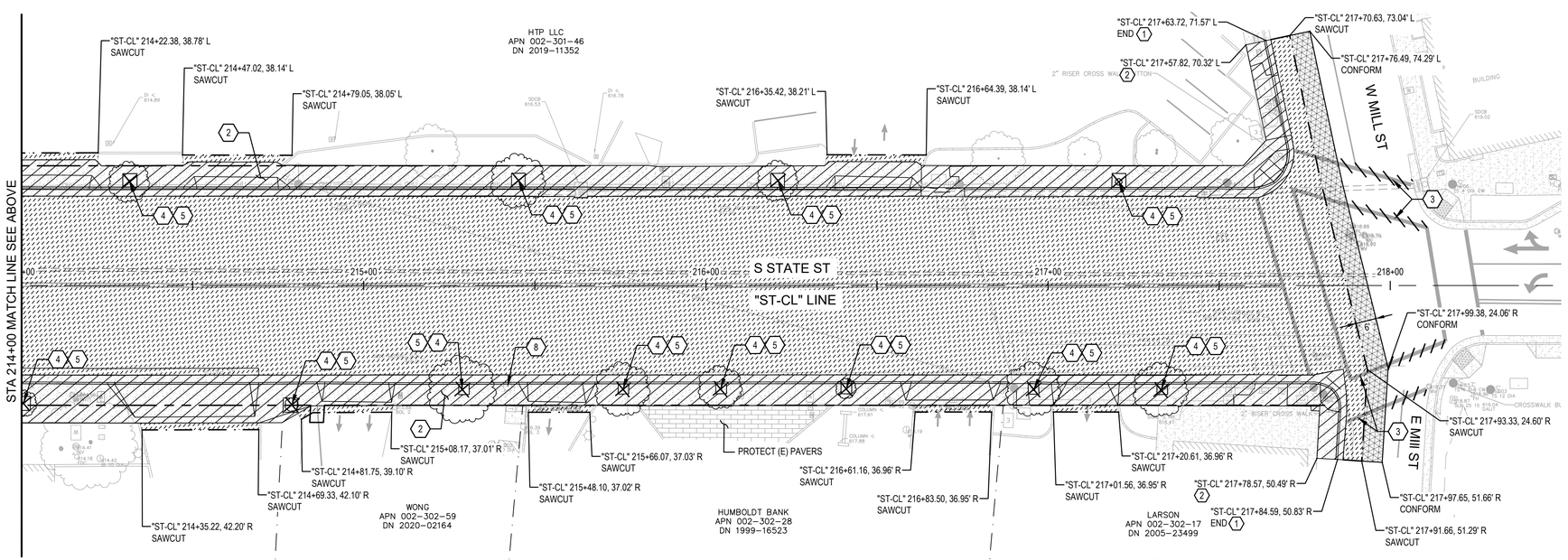


DEMOLITION PLAN S STATE STREET

SCALE: 1" = 20'

0 10' 20' 40'



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DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

DEMOLITION PLAN
S STATE ST STA. 209+50 - STA. 218+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

D-103

SHEET 9 OF 107

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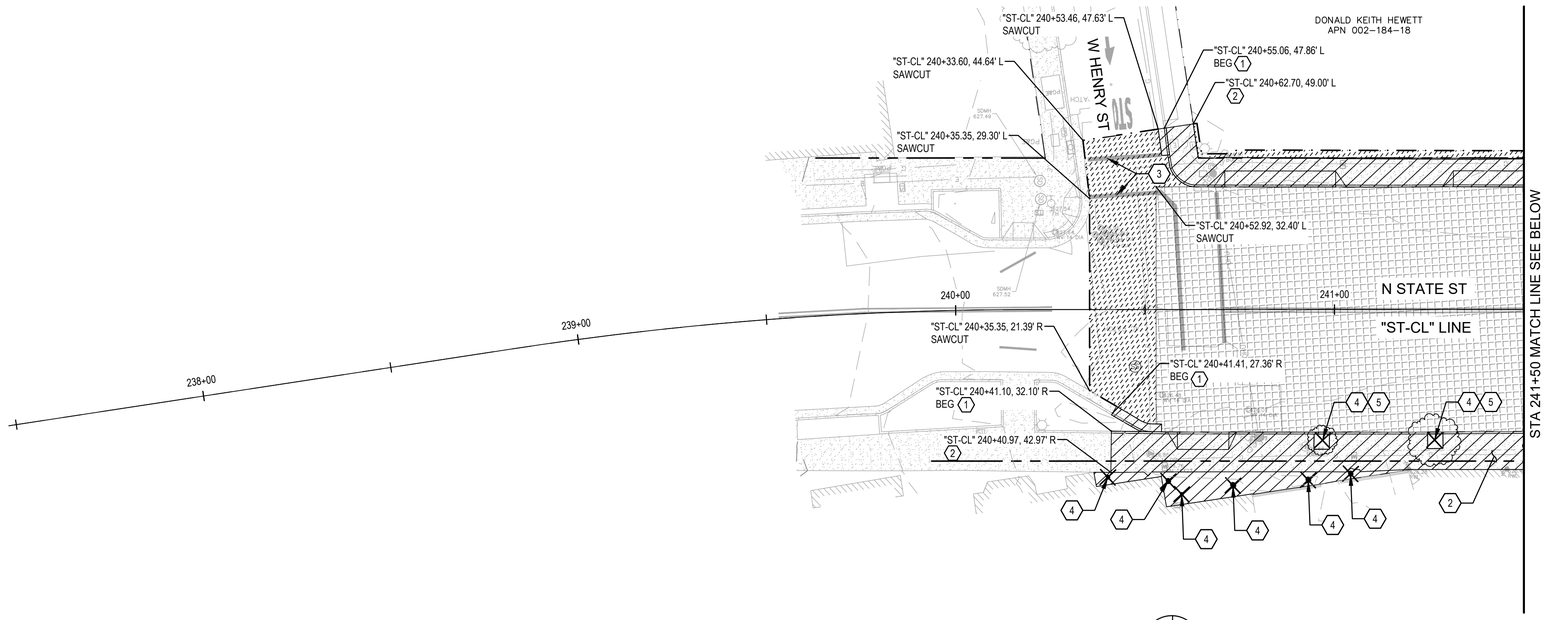
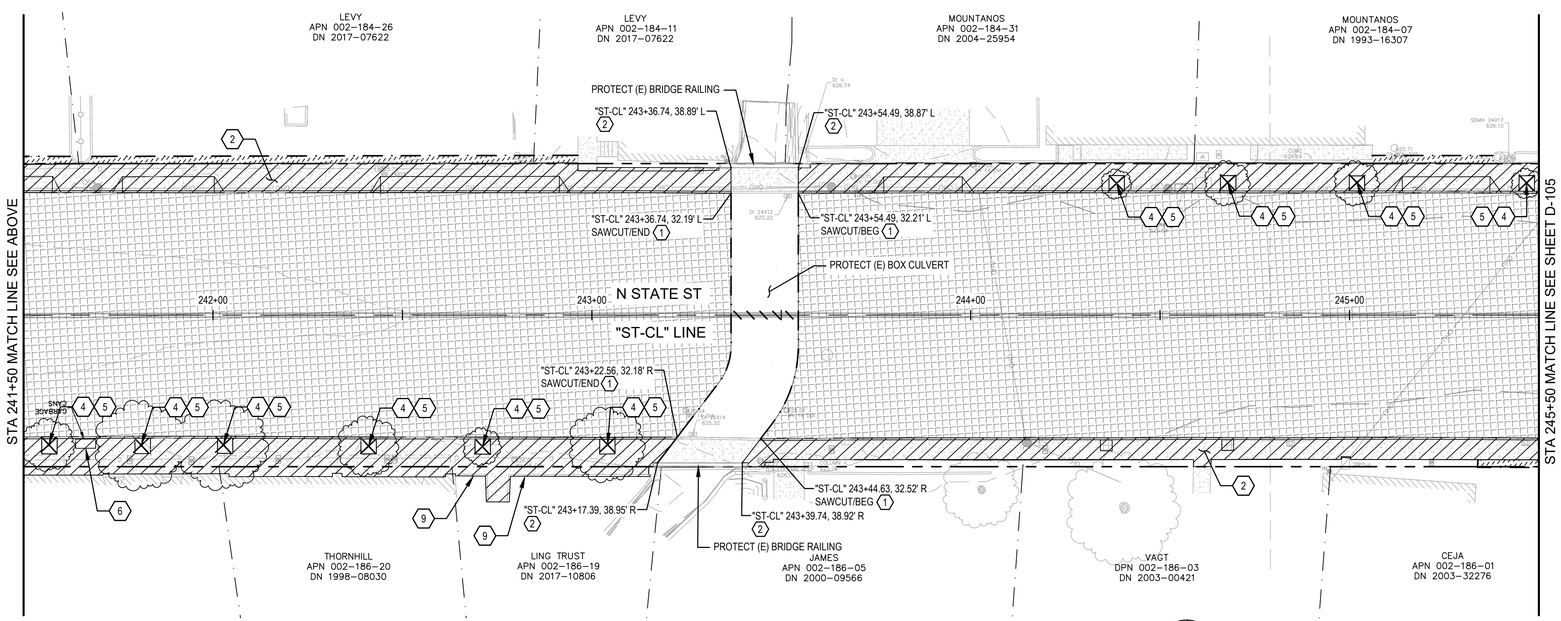


DEMOLITION PLAN N STATE STREET

SCALE: 1" = 20'



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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

DEMOLITION PLAN N STATE ST STA. 237+50 - STA. 245+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

D-104

SHEET 10 OF 107

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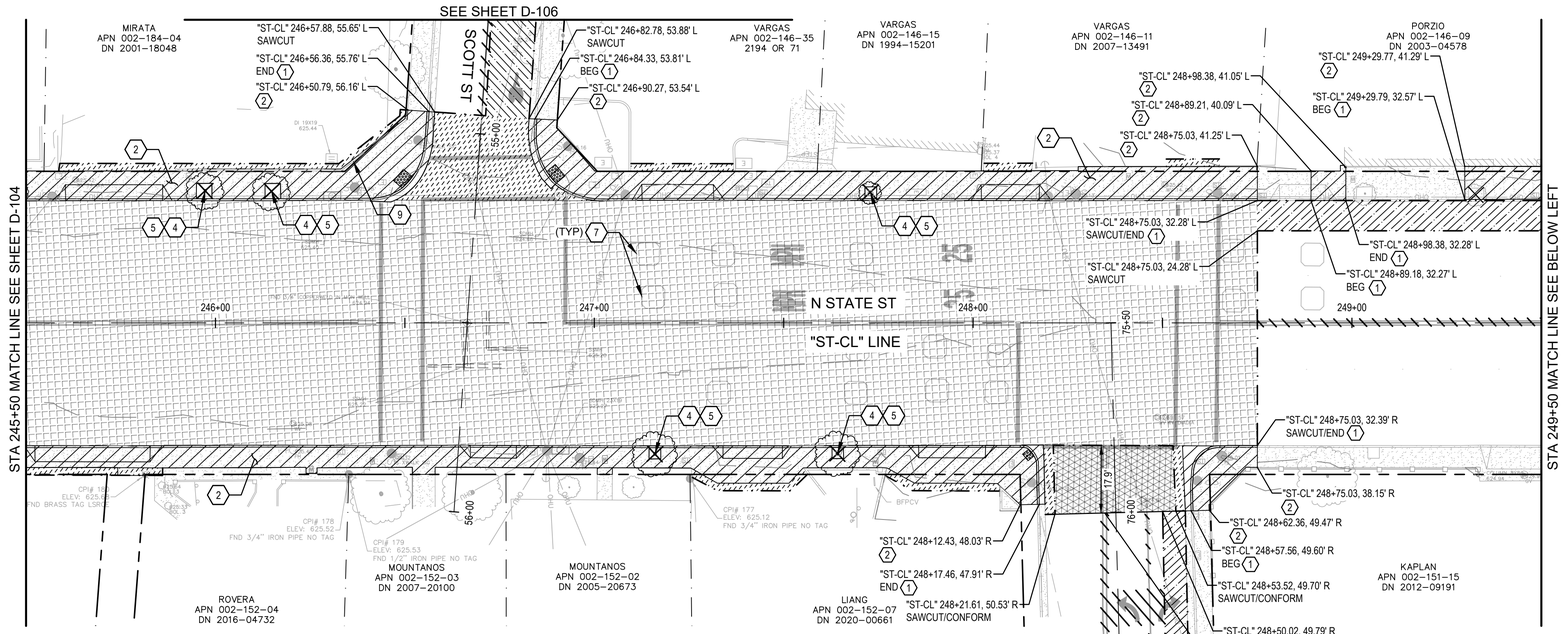

DEMOLITION PLAN N STATE STREET

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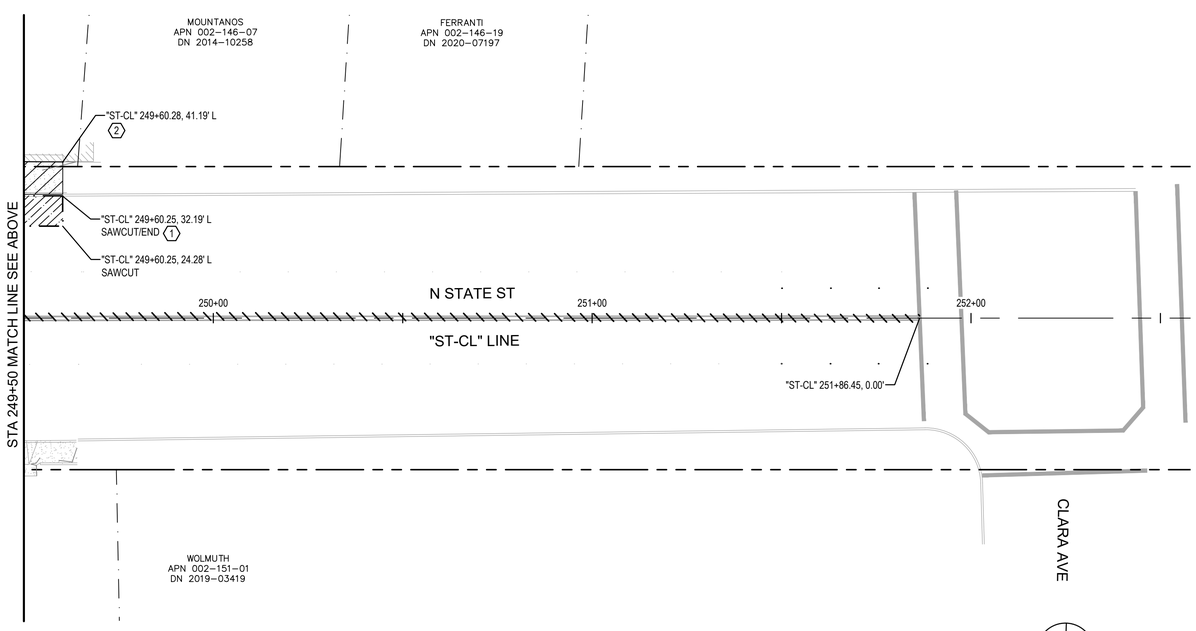

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

DEMOLITION PLAN N STATE ST STA. 245+50 - STA. 249+50

PROJ NO: 11225278

DRWN: RB CHKD: JS

D-105

SHEET 11 OF 107

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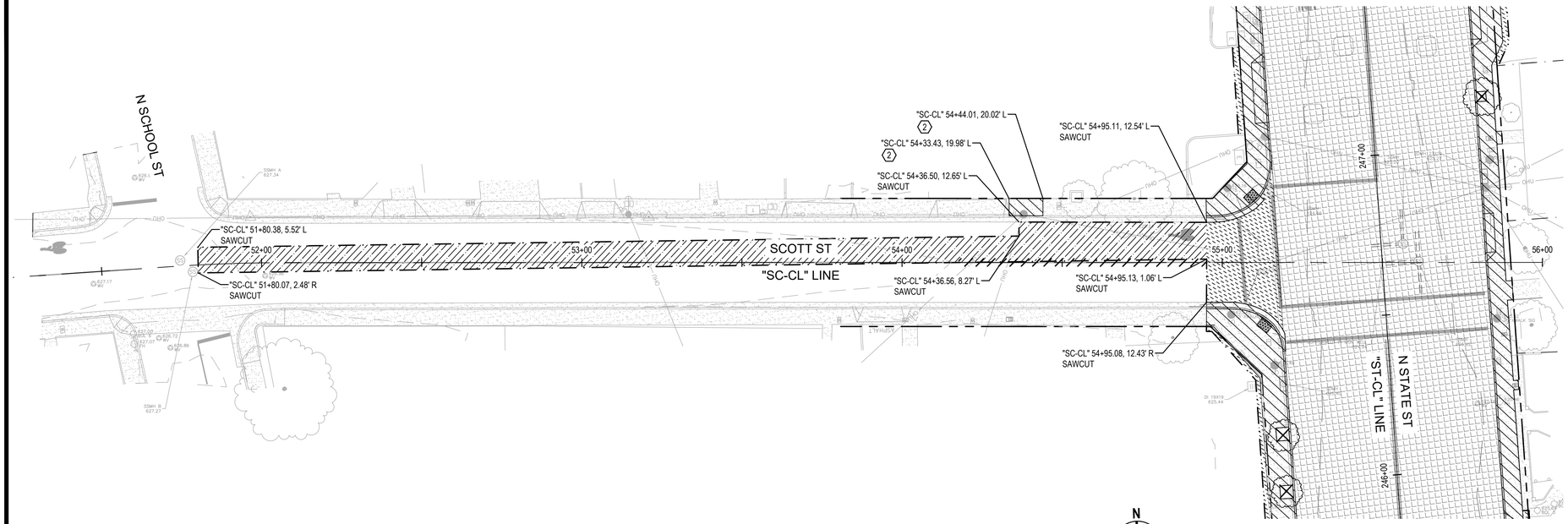

DEMOLITION PLAN SCOTT STREET

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DEMOLITION PLAN
SCOTT ST STA. 51+30 - STA. 55+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

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SHEET 12 OF 107

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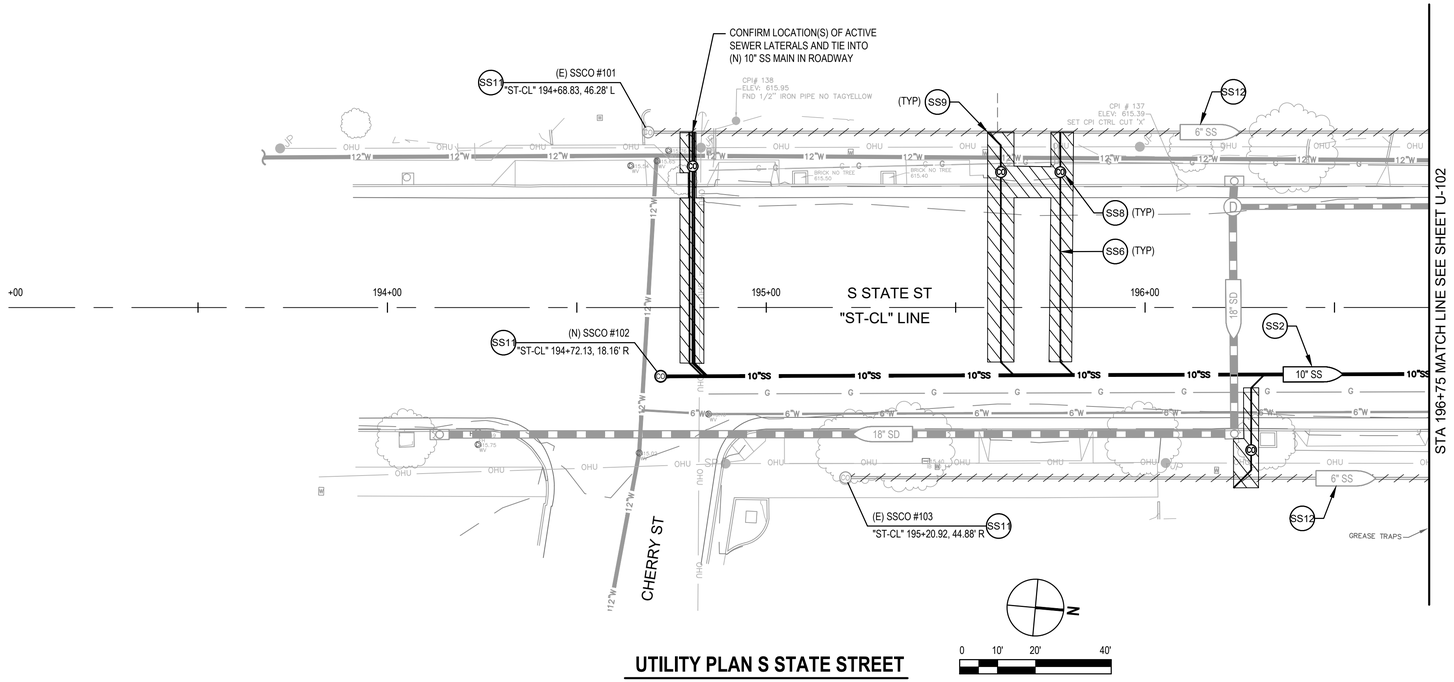
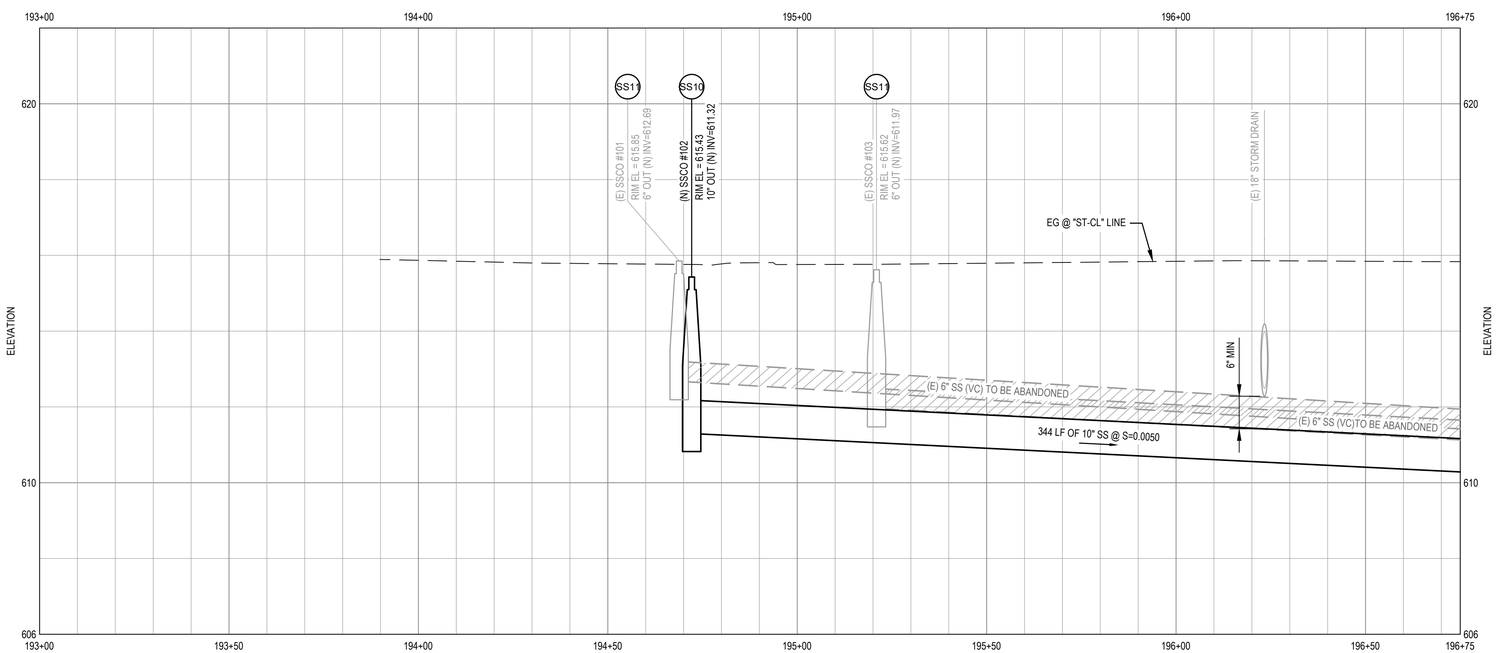


UTILITY PLAN S STATE STREET

SCALE: 1" = 20'



UTILITY PROFILE S STATE STREET

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1. LOCATION OF EXISTING UTILITIES, STRUCTURES AND OBSTACLES ARE APPROXIMATE IN PLAN AND PROFILE AND BASED ON BEST AVAILABLE INFORMATION. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES TO SUCCESSFULLY COMPLETE THIS PROJECT. DAMAGE TO ANY EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
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3. CONTRACTOR IS ADVISED OF THE PRESENCE OF SHALLOW STORM DRAINS THROUGHOUT THE PROJECT AREA. STORM DRAINS SHALL BE PROTECTED IN PLACE DURING ALL CONTRACTOR WORK.
4. CONTRACTOR SHALL UNDERTAKE CCTV INSPECTION OF THE EXISTING SANITARY SEWER MAIN AND CONFIRM THE LOCATION OF ALL LIVE SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION.
5. NOT ALL EXISTING UTILITIES ARE SHOWN ON PROFILE. REFER TO PLAN AND POTHOLE INFORMATION FOR APPROXIMATE LOCATION AND DEPTH OF (E) UTILITIES.
6. DO NOT EXCEED 80% OF THE MAX ALLOWABLE DEFLECTION AT PUSH-ON AND MECHANICAL JOINTS. MAX DEFLECTION AT PUSH-ON JOINTS IS 0.80°; MAX DEFLECTION AT MECHANICAL JOINTS AND COUPLINGS IS 4° OR AS PER MANUFACTURER'S REQUIREMENTS.
7. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL LOCATIONS PER CITY STD 312. CONCRETE THRUST BLOCKS SHALL BE INSTALLED IN ADDITION TO RESTRAINED PIPE WHERE LOCATED AT OR NEAR A PIPE LOWERING/PIPE RAISING LOCATION.
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SHEET KEYNOTES

SD1. INSTALL (N) 48" STORM DRAIN MANHOLE
SD2. INSTALL (N) CALTRANS PRECAST DRAINAGE INLET TYPE G0 PLAN D773E
SD3. INSTALL (N) RCP STORM DRAIN PIPE, SEE SIZE ON PLANS
SD4. INSTALL (N) 12" DOME GRATE PER DETAIL 5 & 6 ON SHEET U-505
SD5. INSTALL PRECAST 24X24 DI WITH CAST-IN-PLACE FRAME AND TRAFFIC RATED GRATE
SD6. ADJUST (E) STORM DRAIN STRUCTURE TO FINISHED GRADE
SD7. REMOVE (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
SD8. ABANDON (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
W1. ABANDON (E) WATER MAIN. REMOVE WHERE IN CONFLICT WITH THE (N) WATER MAIN. FILL WITH CONTROLLED LOW STRENGTH MATERIAL WHERE (E) WATER IS LOCATED UNDER BUILDINGS AND ROADWAYS. REMOVE (E) VALVES
W2. INSTALL (N) 12" WATER MAIN
W3. INSTALL (N) GATE VALVE PER CITY STD 307
W4. INSTALL (N) 45° BEND
W5. REMOVE (E) 12" X 12" X 6" TEE
W6. CONNECT TO (E) AC PIPE WITH "WIDE RANGE" STYLE COUPLING
W7. CAP (E) WATER MAIN
W8. REMOVE (E) WATER VALVE
W9. INSTALL (N) 12" X 12" X 8" TEE
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W12. INSTALL (N) 12" X 12" X 6" TEE
W13. INSTALL BLIND FLANGE
W14. ADJUST (E) WATER VALVE TO FINISHED GRADE
W15. INSTALL (N) FIRE HYDRANT AND LATERAL PER DETAIL 1 ON SHEET U-503. MAINTAIN MINIMUM 3' CLEARANCE FROM (N) HYDRANT TO OTHER ABOVE GRADE OBSTRUCTIONS.
W16. PROVIDE SINGLE WATER SERVICE LATERAL PER CITY STD 301
W17. LOCATE AND CONNECT TO (E) SERVICE 1' FROM PROPERTY BOUNDARY
W18. REMOVE (E) FIRE HYDRANT AND VALVE
SS1. INSTALL (N) 48" SANITARY MANHOLE PER CITY STD 201
SS2. INSTALL (N) SDR 26 PVC SEWER MAIN, SEE SIZE ON PLANS
SS3. INSTALL TEMPORARY (N) 48" SANITARY SEWER MANHOLE
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SS6. PROVIDE (N) 4" PVC SANITARY SEWER LATERAL PER CITY STD 213. REMOVE OR ABANDON (E) LATERAL
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REGISTERED PROFESSIONAL ENGINEER
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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY PLAN & PROFILE S STATE ST STA. 193+00 - STA. 196+75

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-101

SHEET 13 OF 107

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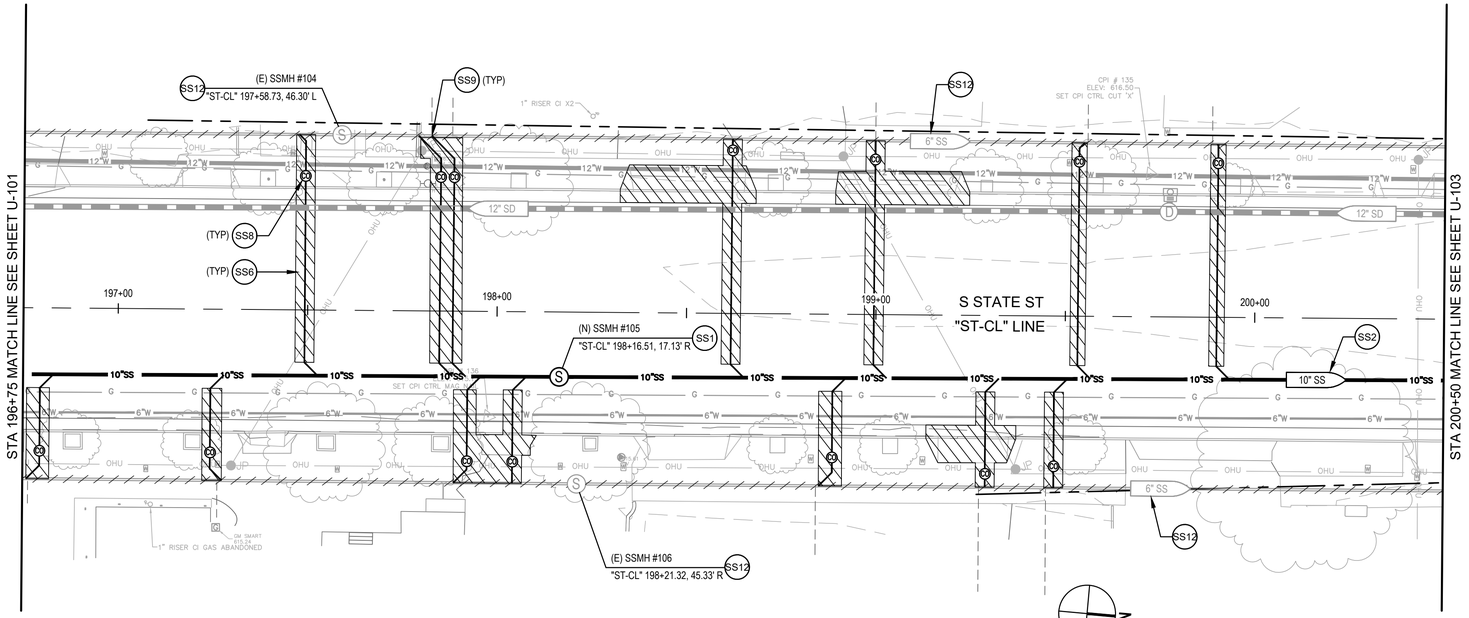

UTILITY PLAN S STATE STREET

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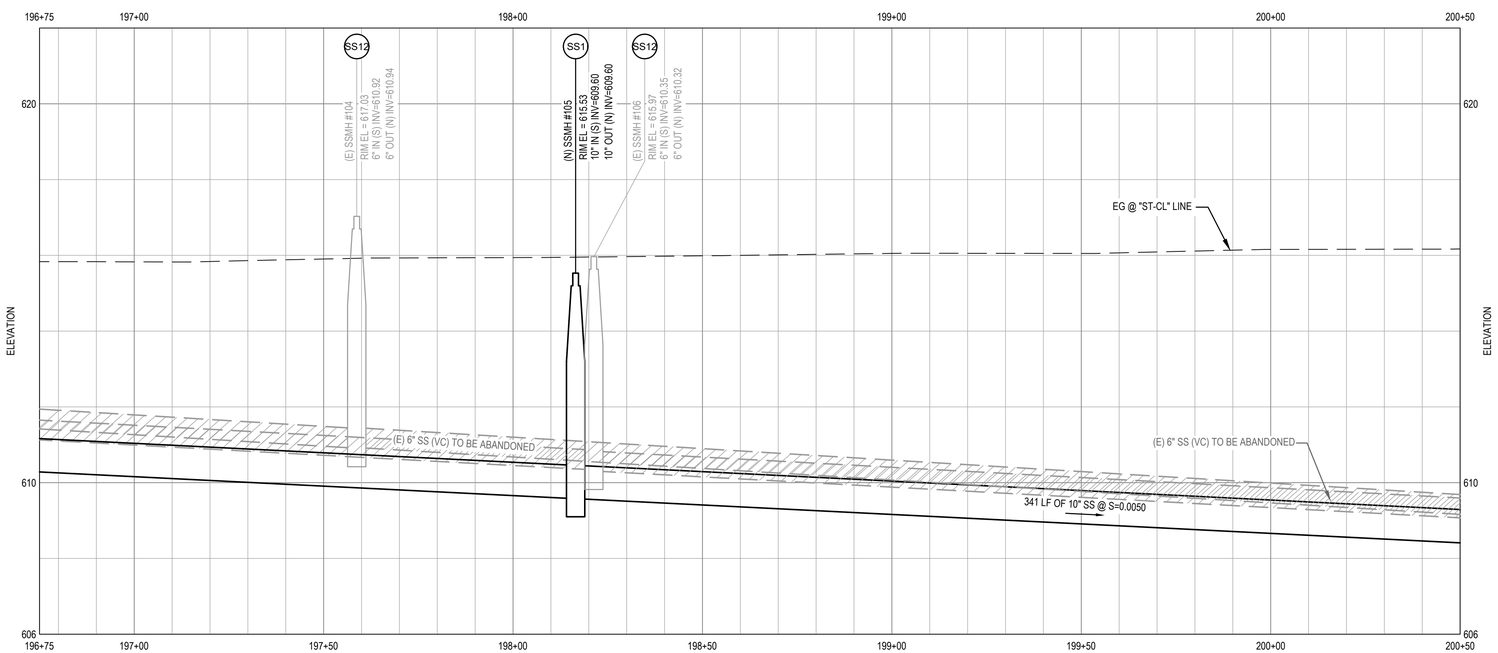

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UTILITY PLAN & PROFILE S STATE ST STA. 196+75 - STA. 200+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-102

SHEET 14 OF 107

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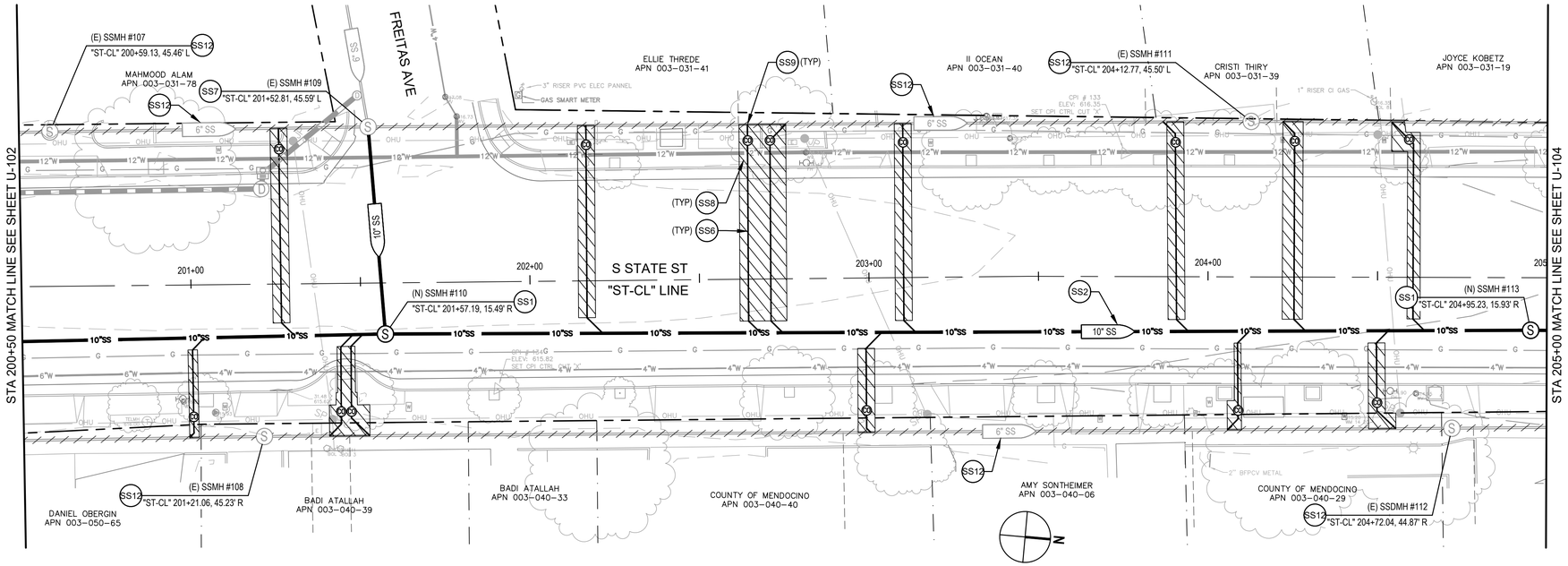

UTILITY PLAN S STATE STREET

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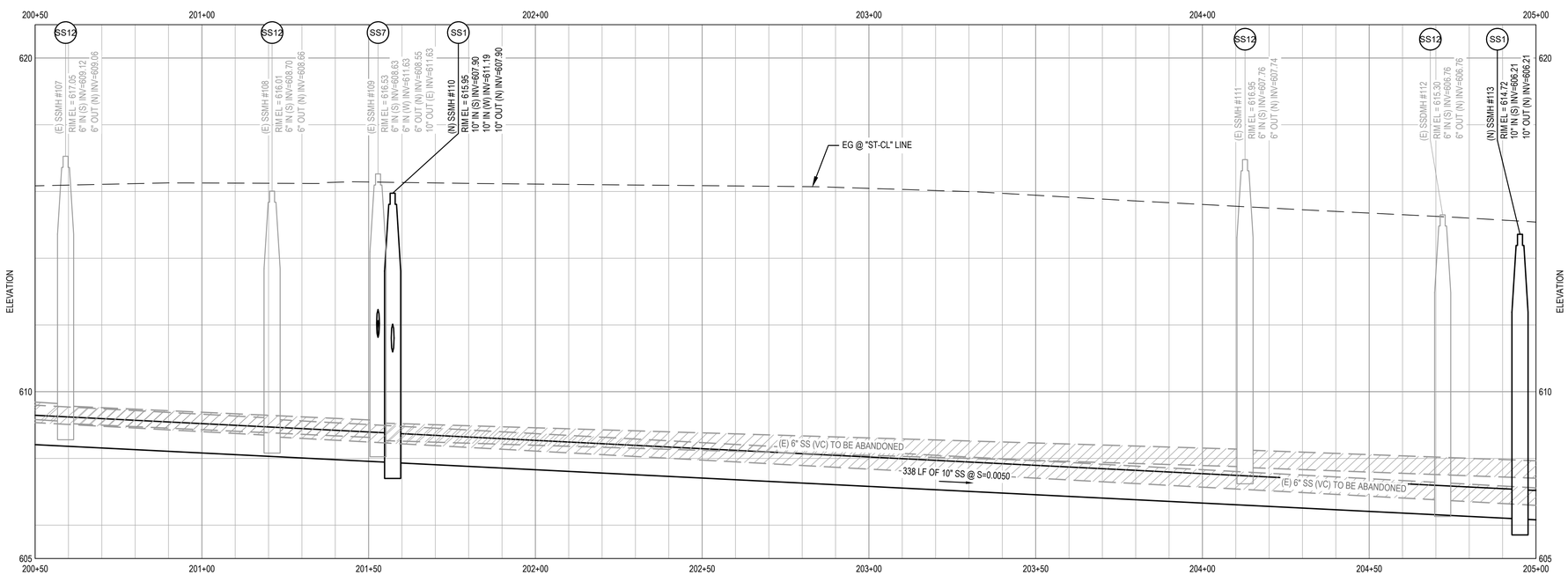

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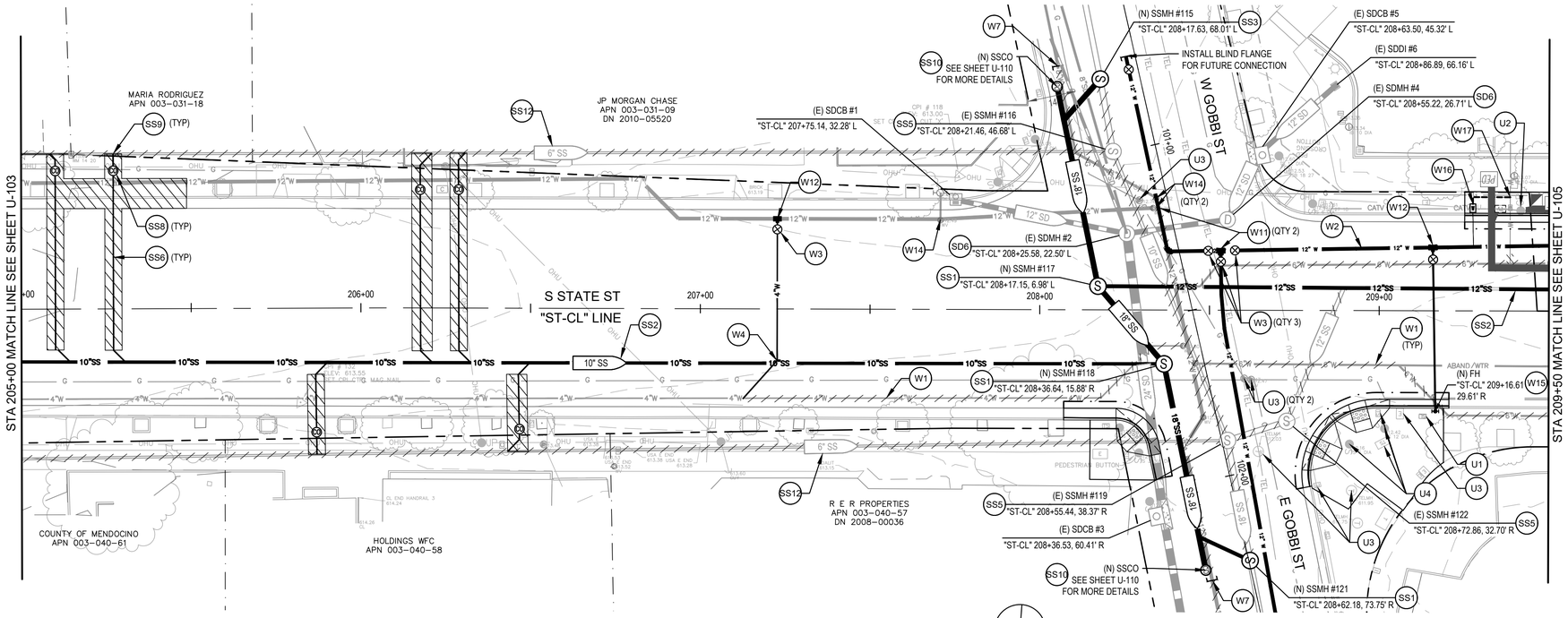

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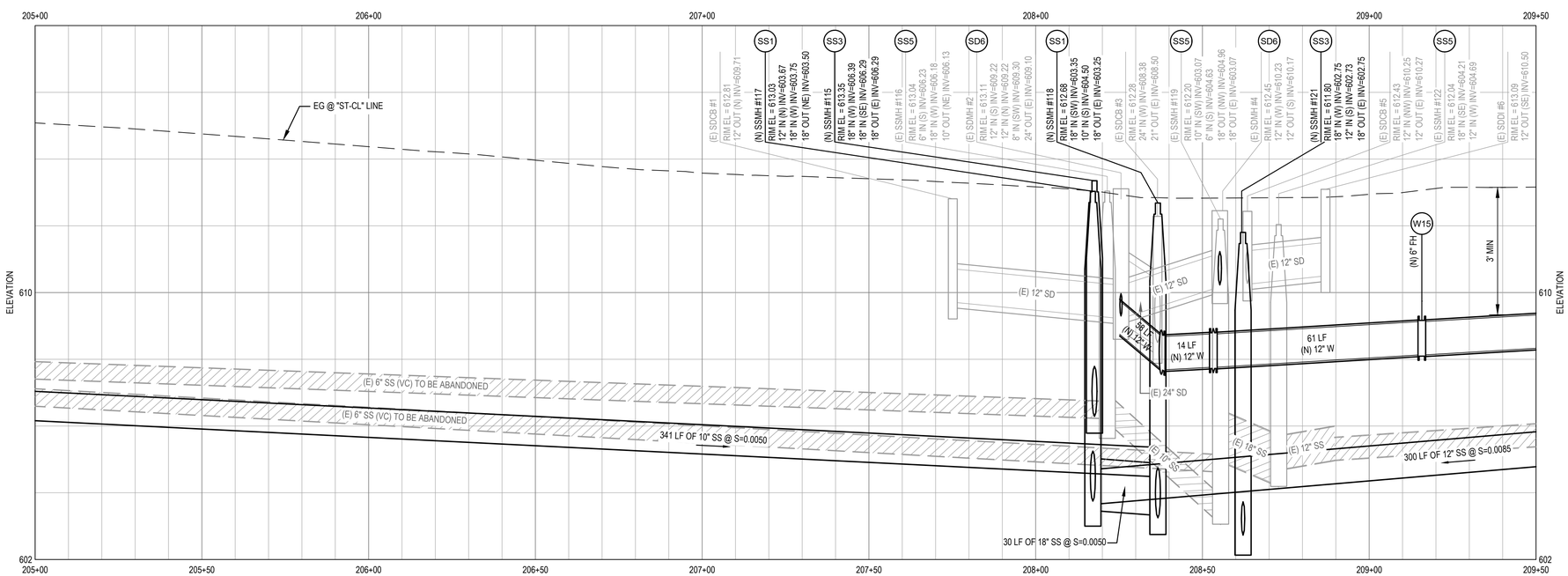

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SD3. INSTALL (N) RCP STORM DRAIN PIPE, SEE SIZE ON PLANS
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W4. INSTALL (N) 45° BEND
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W7. CAP (E) WATER MAIN
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W17. LOCATE AND CONNECT TO (E) SERVICE 1' FROM PROPERTY BOUNDARY
W18. REMOVE (E) FIRE HYDRANT AND VALVE
SS1. INSTALL (N) 48" SANITARY MANHOLE PER CITY STD 201
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REGISTERED PROFESSIONAL ENGINEER
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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY PLAN & PROFILE
S STATE ST STA. 205+00 - STA. 209+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-104

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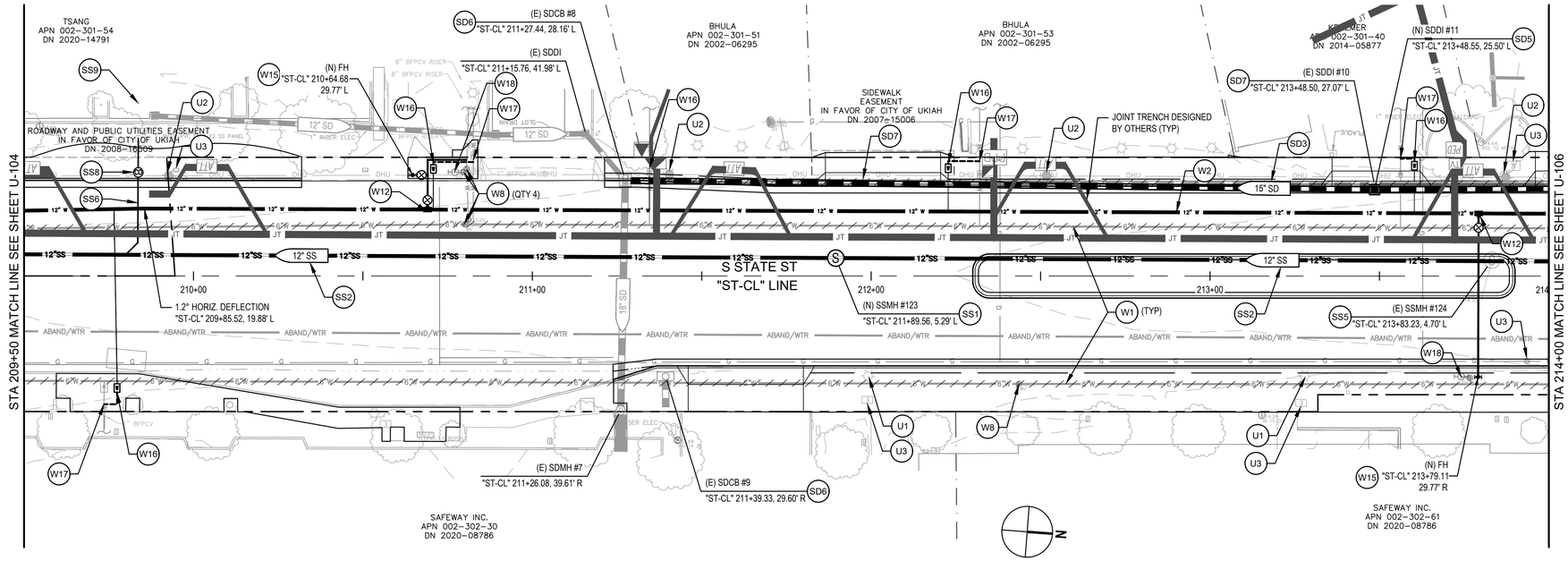
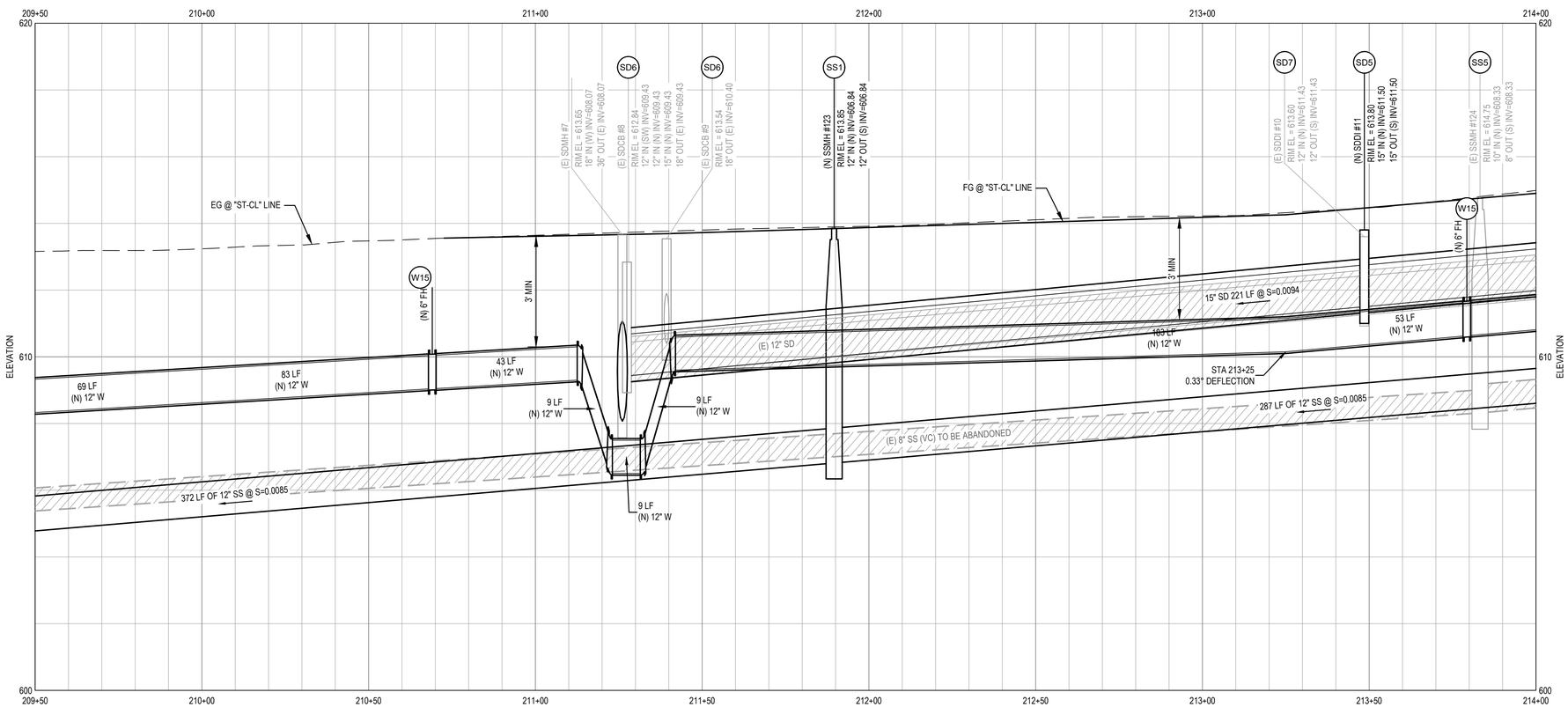


UTILITY PLAN S STATE STREET

SCALE: 1" = 20'



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UTILITY PLAN & PROFILE
N STATE ST STA. 209+50 - STA. 214+00

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-105

SHEET 17 OF 107

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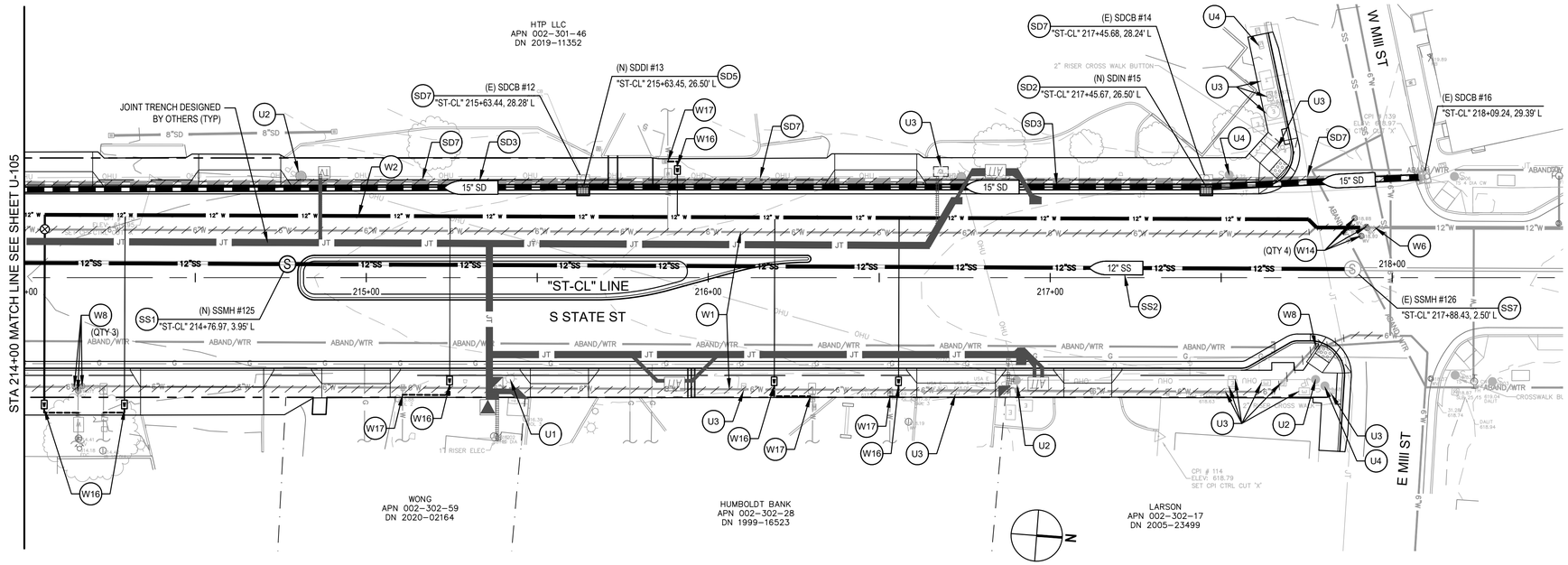
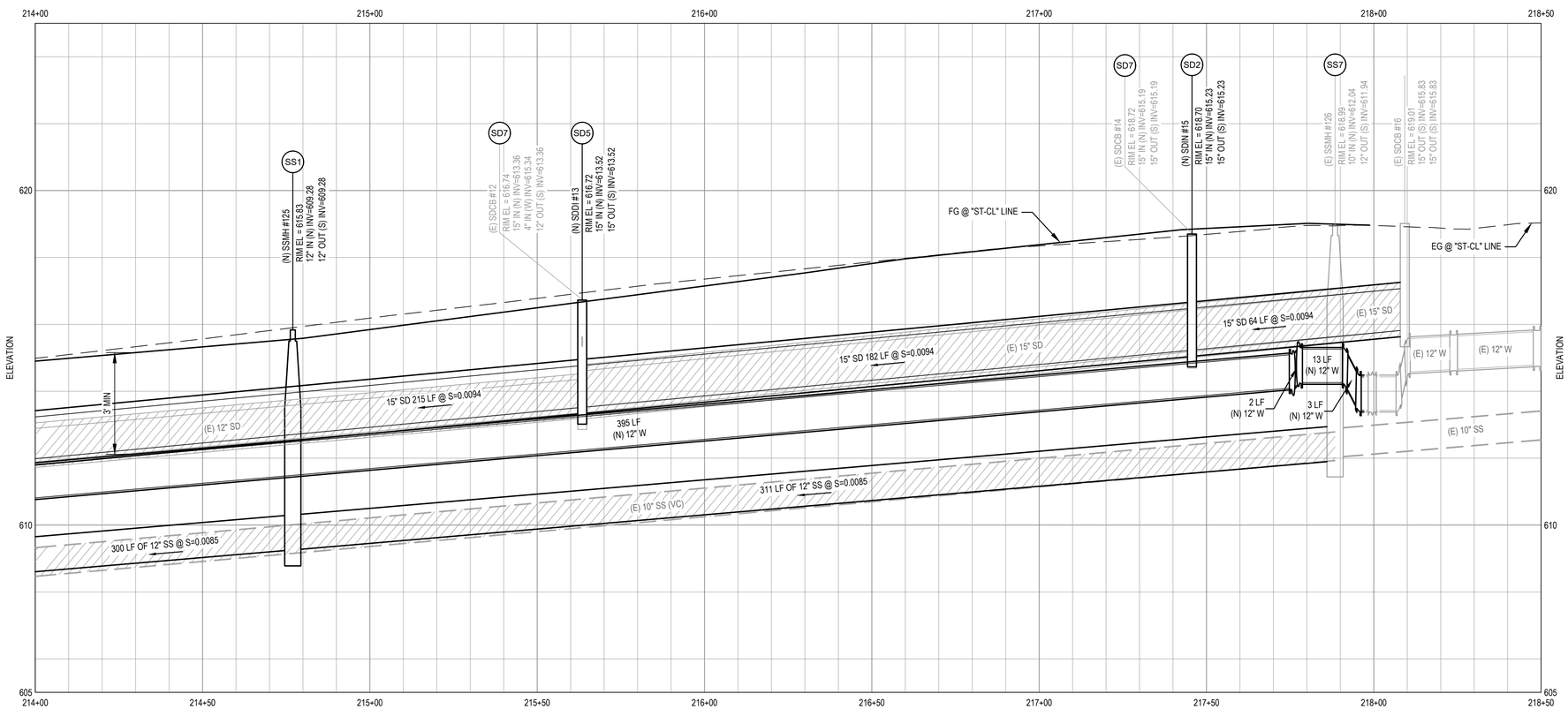


UTILITY PLAN S STATE STREET

SCALE: 1" = 20'



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UTILITY PLAN & PROFILE S STATE ST STA. 214+00 - STA. 218+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-106

SHEET 18 OF 107

2023-02-22 5:05 PM JPARK2
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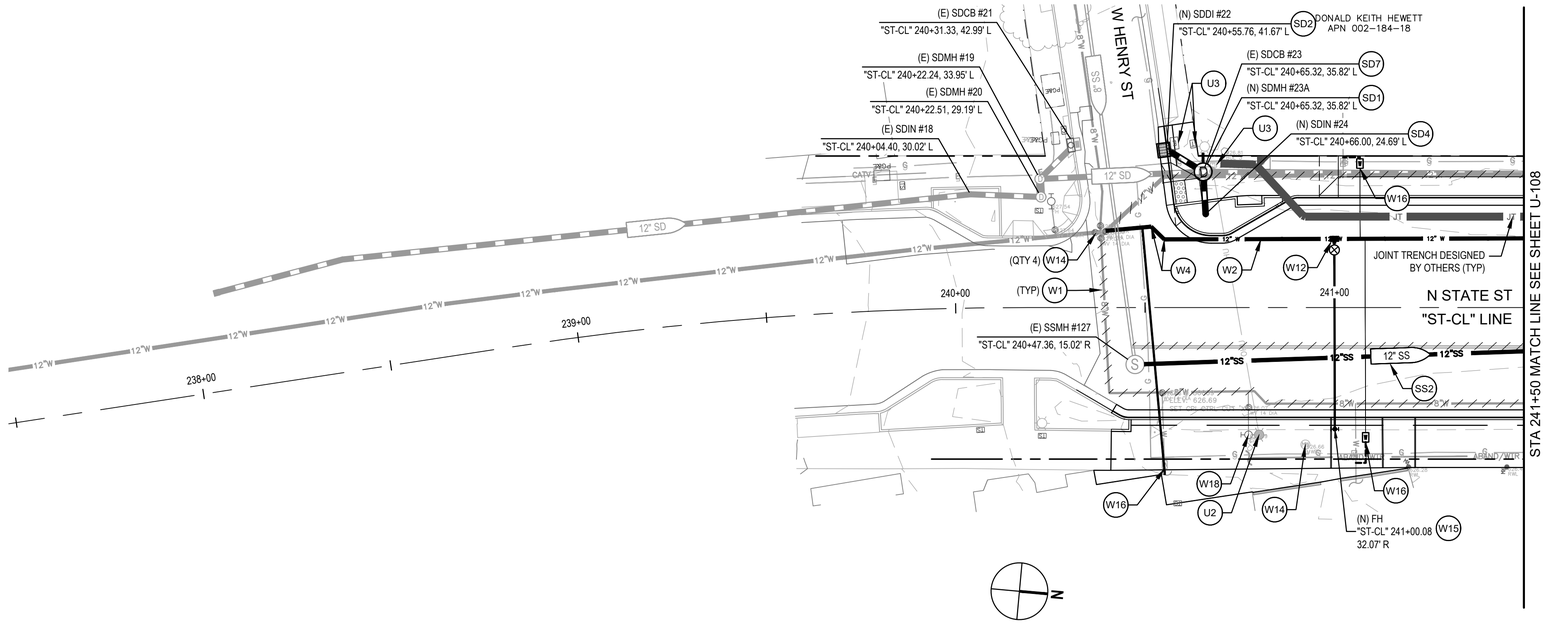
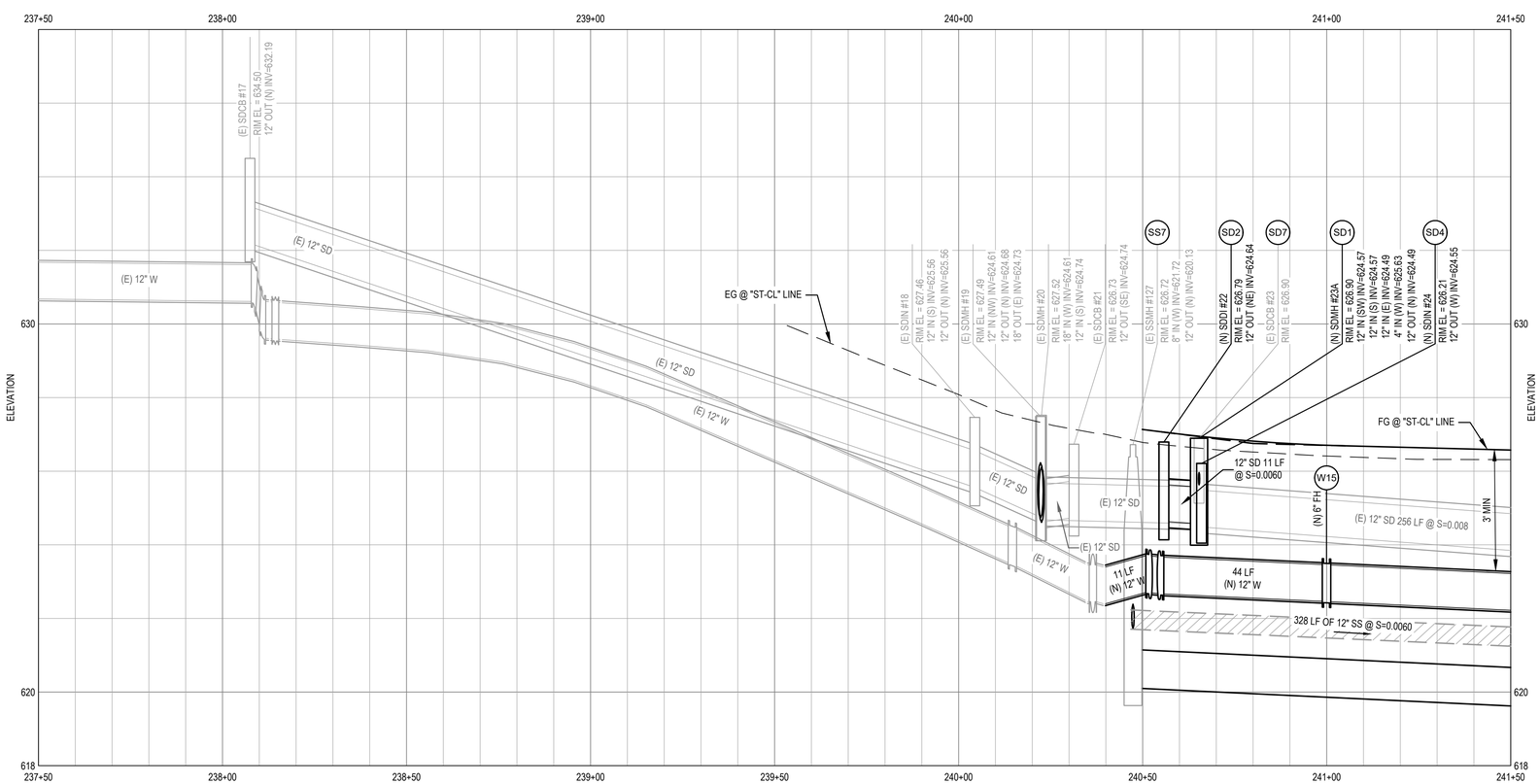


UTILITY PLAN N STATE STREET

SCALE: 1" = 20'



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SS9. LOCATE (E) SEWER LATERAL 1 FEET FROM PROPERTY BOUNDARY PER SECTION 77 OF THE SPECIAL PROVISIONS PRIOR TO INSTALLING WYE FOR (N) LATERAL.
SS10. INSTALL (N) END-LINE SSCO PER CITY STD 203
SS11. ABANDON (E) END-LINE SSCO
SS12. ABANDON (E) SANITARY SEWER MANHOLE AND/OR PIPE
U1. SEE STREET LIGHT PLANS FOR STREET LIGHT CONSTRUCTION INFORMATION
U2. (E) OVERHEAD LINE AND POLES TO BE REMOVED. SEE JOINT TRENCH PLANS FOR DETAILS
U3. ADJUST (E) UTILITY TO FINISHED GRADE
U4. SEE TRAFFIC SIGNAL PLANS FOR TRAFFIC POLES/BOXES CONSTRUCTION INFORMATION

GHD Inc.
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REGISTERED PROFESSIONAL ENGINEER
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CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY PLAN & PROFILE
N STATE ST STA. 237+50 - STA. 241+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-107

SHEET 19 OF 107

2023-02-22 5:05 PM JPARK2
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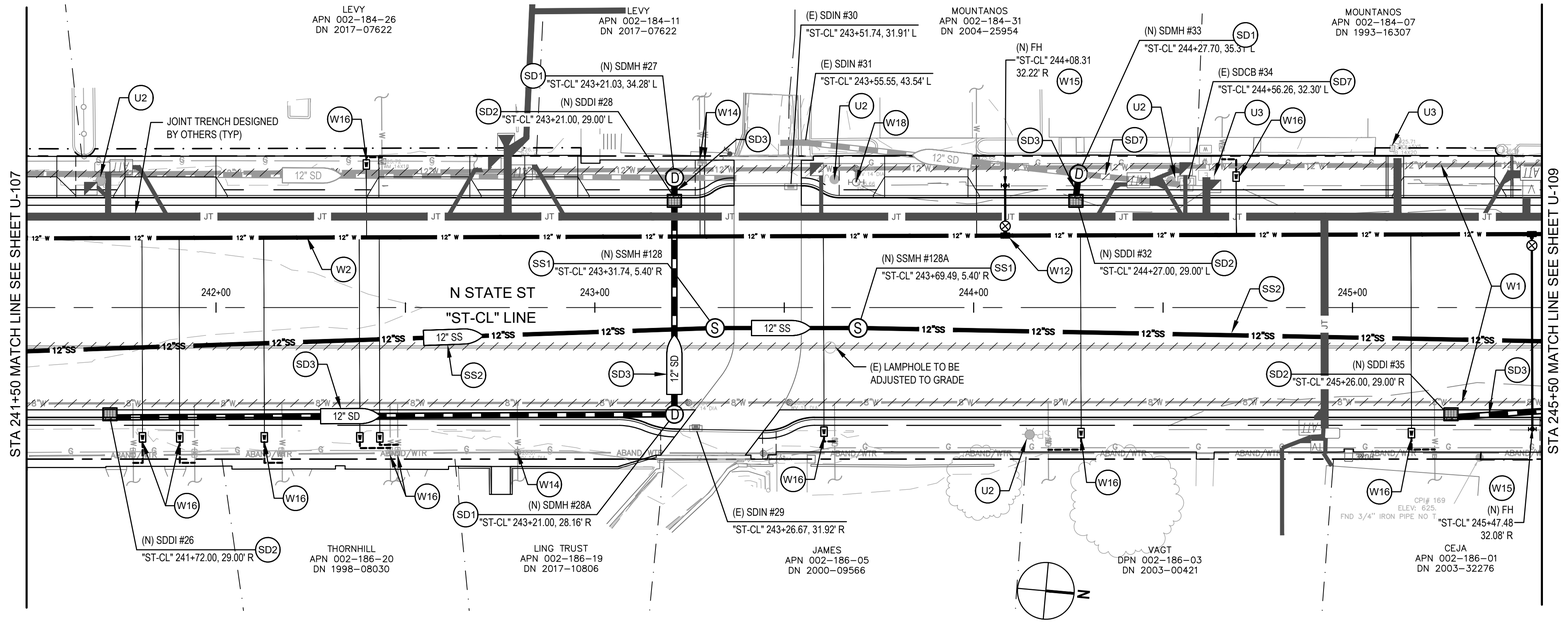
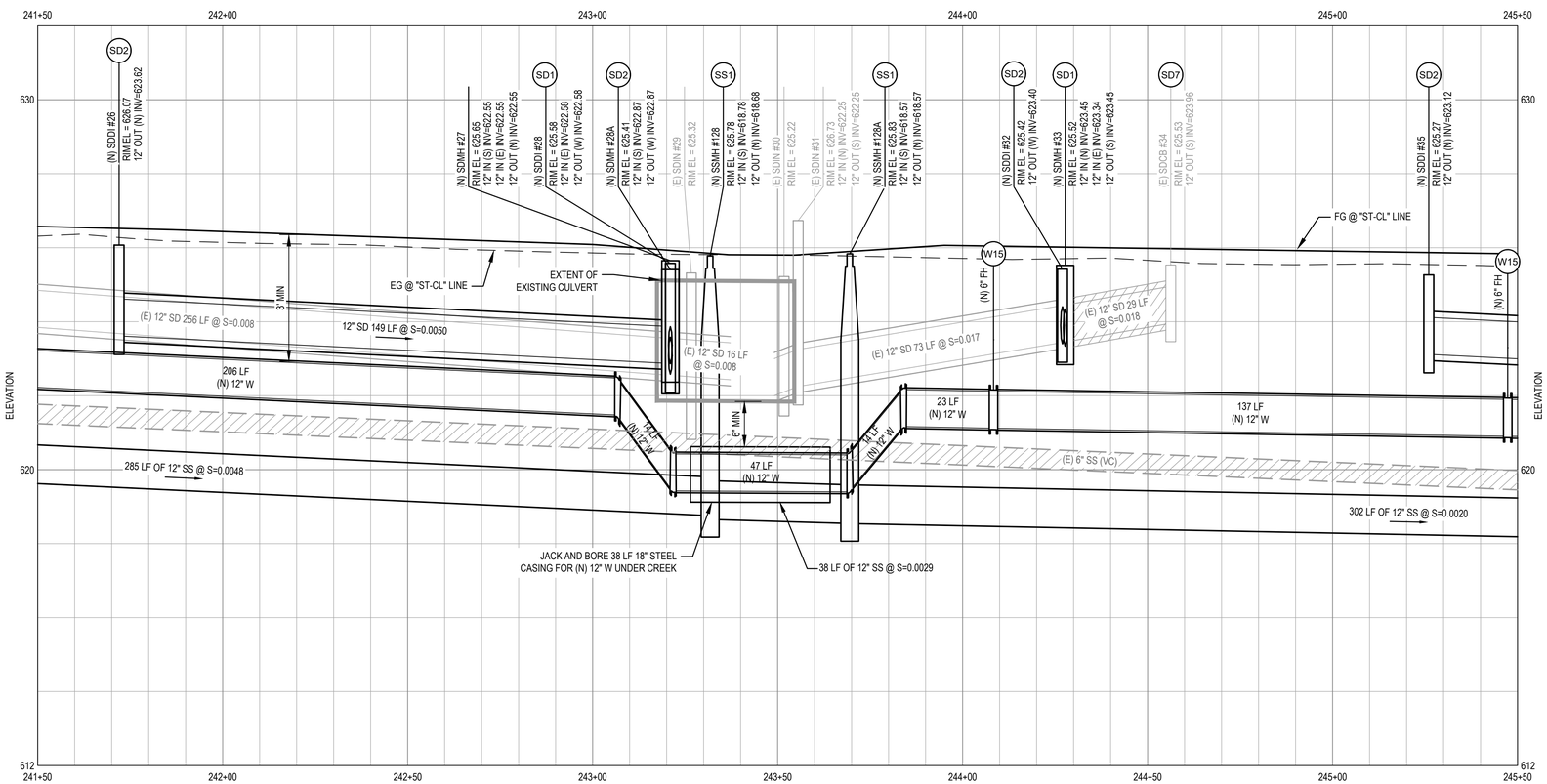


UTILITY PLAN N STATE STREET

SCALE: 1" = 20'



UTILITY PROFILE N STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=4'

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3. CONTRACTOR IS ADVISED OF THE PRESENCE OF SHALLOW STORM DRAINS THROUGHOUT THE PROJECT AREA. STORM DRAINS SHALL BE PROTECTED IN PLACE DURING ALL CONTRACTOR WORK.
4. CONTRACTOR SHALL UNDERTAKE CCTV INSPECTION OF THE EXISTING SANITARY SEWER MAIN AND CONFIRM THE LOCATION OF ALL LIVE SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION.
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6. DO NOT EXCEED 80% OF THE MAX ALLOWABLE DEFLECTION AT PUSH-ON AND MECHANICAL JOINTS. MAX DEFLECTION AT PUSH-ON JOINTS IS 0.80°; MAX DEFLECTION AT MECHANICAL JOINTS AND COUPLINGS IS 4° OR AS PER MANUFACTURER'S REQUIREMENTS.
7. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL LOCATIONS PER CITY STD 312. CONCRETE THRUST BLOCKS SHALL BE INSTALLED IN ADDITION TO RESTRAINED PIPE WHERE LOCATED AT OR NEAR A PIPE LOWERING/PIPE RAISING LOCATION.
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SHEET KEYNOTES

SD1. INSTALL (N) 48" STORM DRAIN MANHOLE
SD2. INSTALL (N) CALTRANS PRECAST DRAINAGE INLET TYPE G0 PLAN D773E
SD3. INSTALL (N) RCP STORM DRAIN PIPE, SEE SIZE ON PLANS
SD4. INSTALL (N) 12" DOME GRATE PER DETAIL 5 & 6 ON SHEET U-505
SD5. INSTALL PRECAST 24X24 DI WITH CAST-IN-PLACE FRAME AND TRAFFIC RATED GRATE
SD6. ADJUST (E) STORM DRAIN STRUCTURE TO FINISHED GRADE
SD7. REMOVE (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
SD8. ABANDON (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
W1. ABANDON (E) WATER MAIN. REMOVE WHERE IN CONFLICT WITH THE (N) WATER MAIN. FILL WITH CONTROLLED LOW STRENGTH MATERIAL WHERE (E) WATER IS LOCATED UNDER BUILDINGS AND ROADWAYS. REMOVE (E) VALVES
W2. INSTALL (N) 12" WATER MAIN
W3. INSTALL (N) GATE VALVE PER CITY STD 307
W4. INSTALL (N) 45° BEND
W5. REMOVE (E) 12" X 12" X 6" TEE
W6. CONNECT TO (E) AC PIPE WITH "WIDE RANGE" STYLE COUPLING
W7. CAP (E) WATER MAIN
W8. REMOVE (E) WATER VALVE
W9. INSTALL (N) 12" X 12" X 8" TEE
W10. INSTALL (N) 6" X 6" X 12" TEE
W11 INSTALL (N) 12" X 12" X 12" TEE
W12. INSTALL (N) 12" X 12" X 6" TEE
W13. INSTALL BLIND FLANGE
W14. ADJUST (E) WATER VALVE TO FINISHED GRADE
W15. INSTALL (N) FIRE HYDRANT AND LATERAL PER DETAIL 1 ON SHEET U-503. MAINTAIN MINIMUM 3' CLEARANCE FROM (N) HYDRANT TO OTHER ABOVE GRADE OBSTRUCTIONS.
W16. PROVIDE SINGLE WATER SERVICE LATERAL PER CITY STD 301
W17. LOCATE AND CONNECT TO (E) SERVICE 1' FROM PROPERTY BOUNDARY
W18. REMOVE (E) FIRE HYDRANT AND VALVE
SS1. INSTALL (N) 48" SANITARY MANHOLE PER CITY STD 201
SS2. INSTALL (N) SDR 26 PVC SEWER MAIN, SEE SIZE ON PLANS
SS3. INSTALL TEMPORARY (N) 48" SANITARY SEWER MANHOLE
SS4. CONNECT TO (E) SEWER MAIN WITH COUPLING. CONTRACTOR TO LOCATE (E) SEWER IN FIELD AND MATCH (E) GRADES
SS5. REMOVE (E) SANITARY SEWER MANHOLE AND/OR PIPE
SS6. PROVIDE (N) 4" PVC SANITARY SEWER LATERAL PER CITY STD 213. REMOVE OR ABANDON (E) LATERAL
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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY PLAN & PROFILE
N STATE ST STA. 241+50 - STA. 245+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-108

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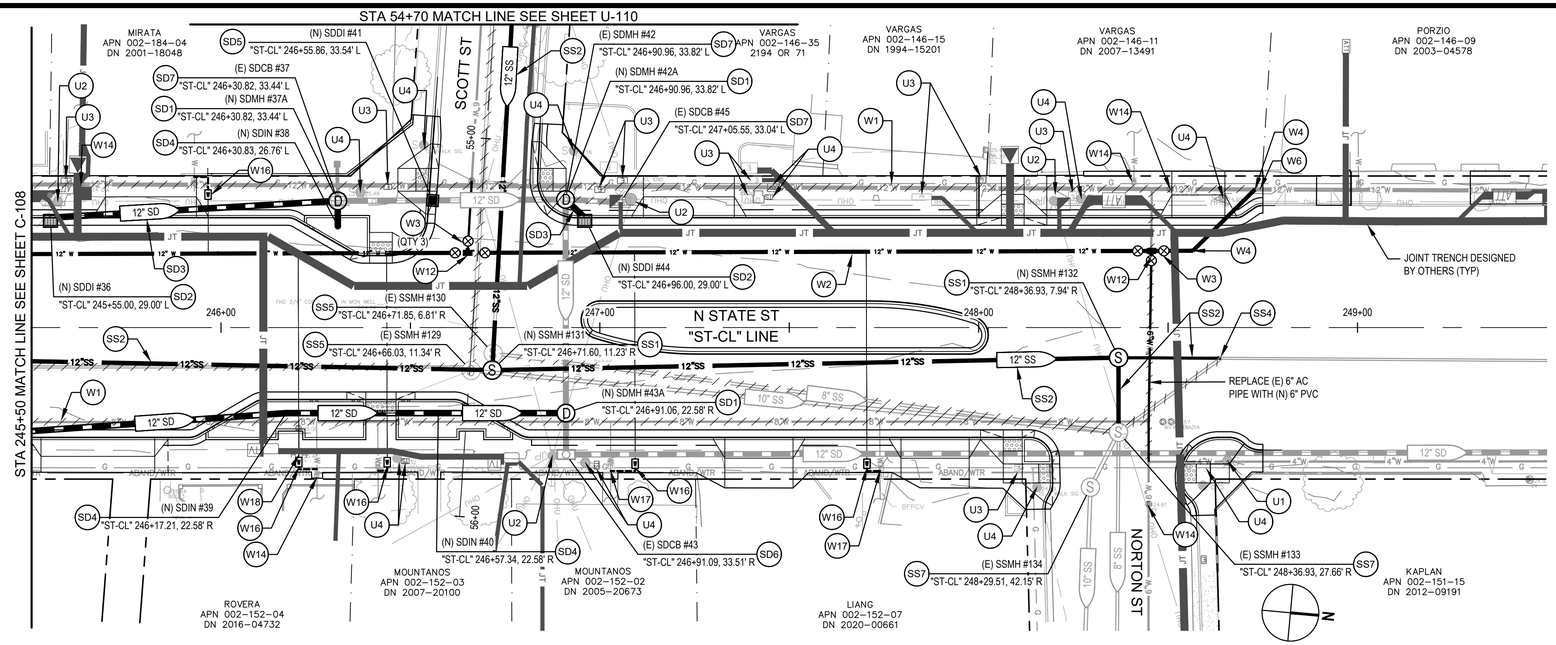
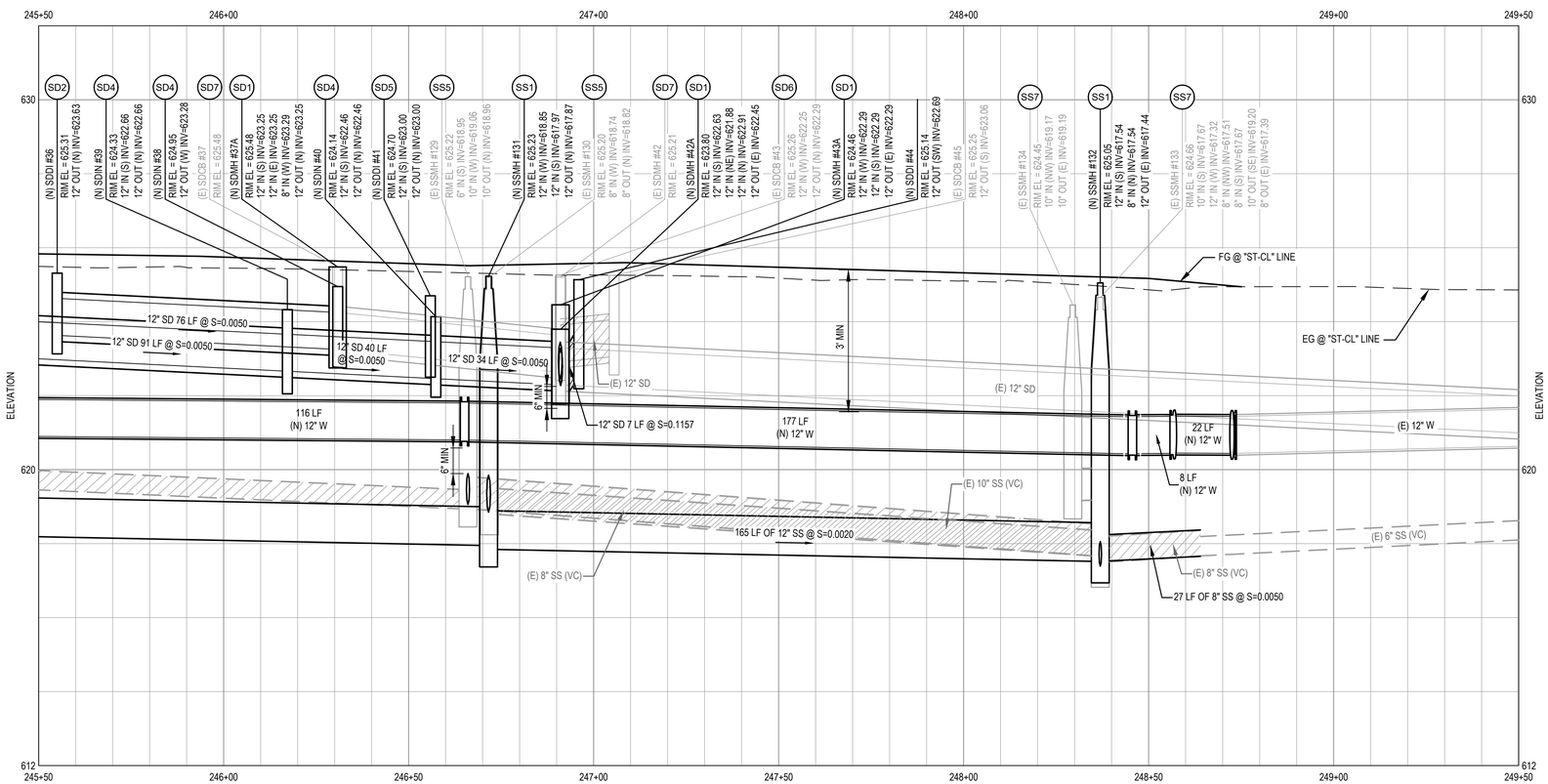


UTILITY PLAN N STATE STREET

SCALE: 1" = 20'



UTILITY PROFILE N STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=4'

SHEET GENERAL NOTES

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SD6. ADJUST (E) STORM DRAIN STRUCTURE TO FINISHED GRADE
SD7. REMOVE (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
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W2. INSTALL (N) 12" WATER MAIN
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W4. INSTALL (N) 45° BEND
W5. REMOVE (E) 12" X 12" X 6" TEE
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W7. CAP (E) WATER MAIN
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SS3. INSTALL TEMPORARY (N) 48" SANITARY SEWER MANHOLE
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UTILITY PLAN & PROFILE N STATE ST STA. 245+50 - STA. 249+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-109

SHEET 21 OF 107

2023-02-22 5:06 PM JPARK2
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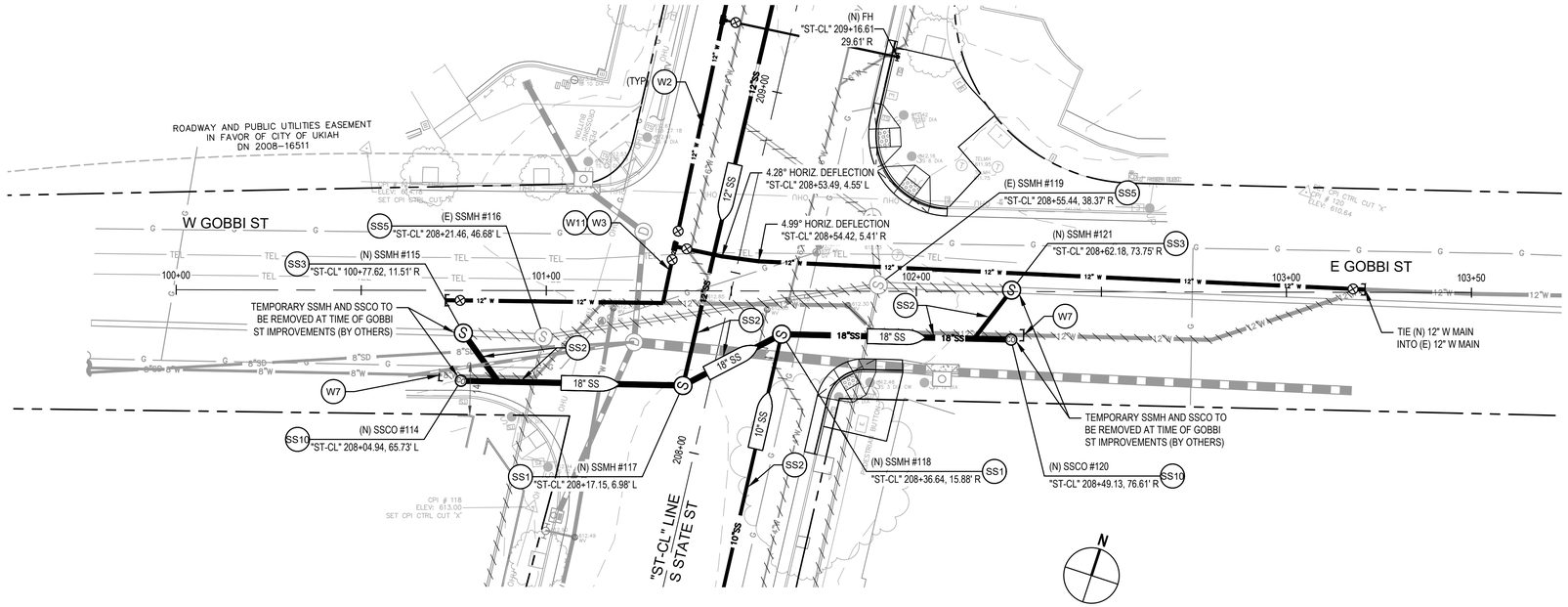
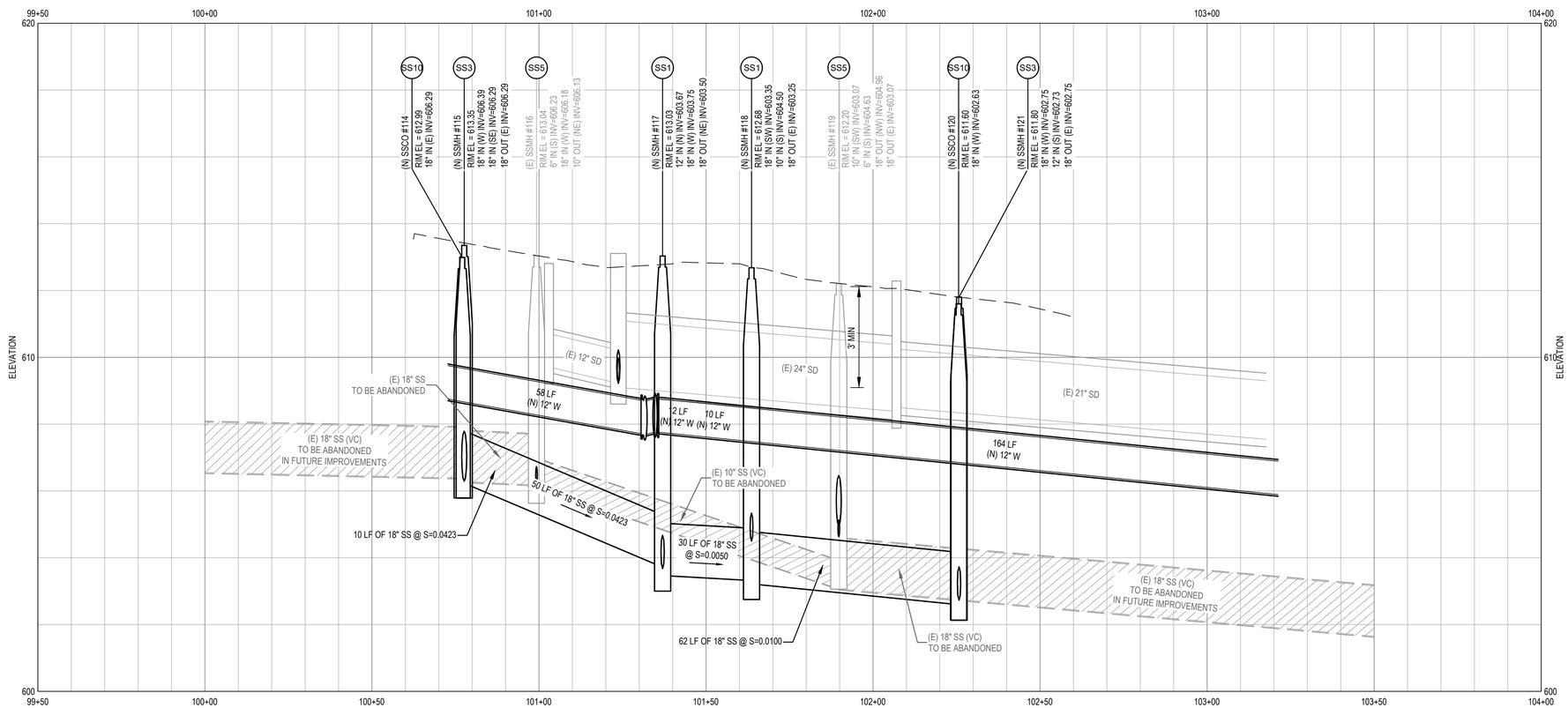


UTILITY PLAN GOBBI STREET

SCALE: 1" = 20'



UTILITY PROFILE STATE STREET

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SS5. REMOVE (E) SANITARY SEWER MANHOLE AND/OR PIPE
SS6. PROVIDE (N) 4" PVC SANITARY SEWER LATERAL PER CITY STD 213. REMOVE OR ABANDON (E) LATERAL
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GOBBI ST STA. 100+00 TO STA. 103+50

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SHEET 22 OF 107

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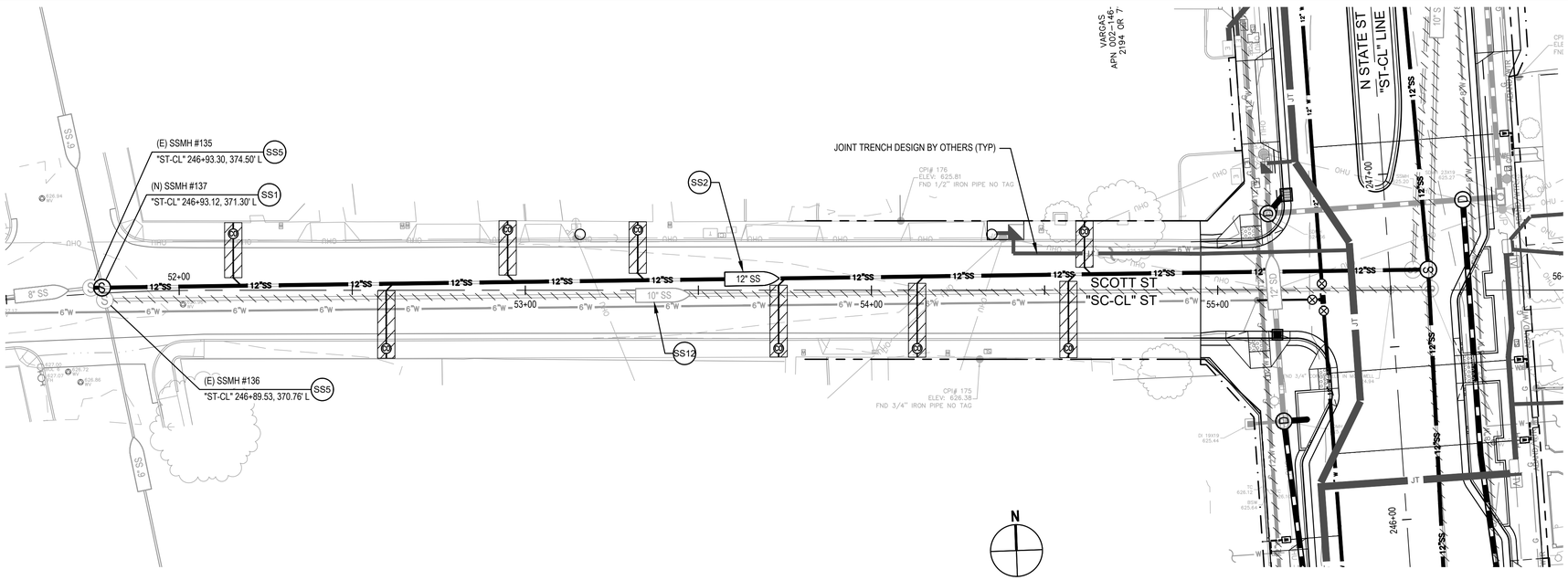
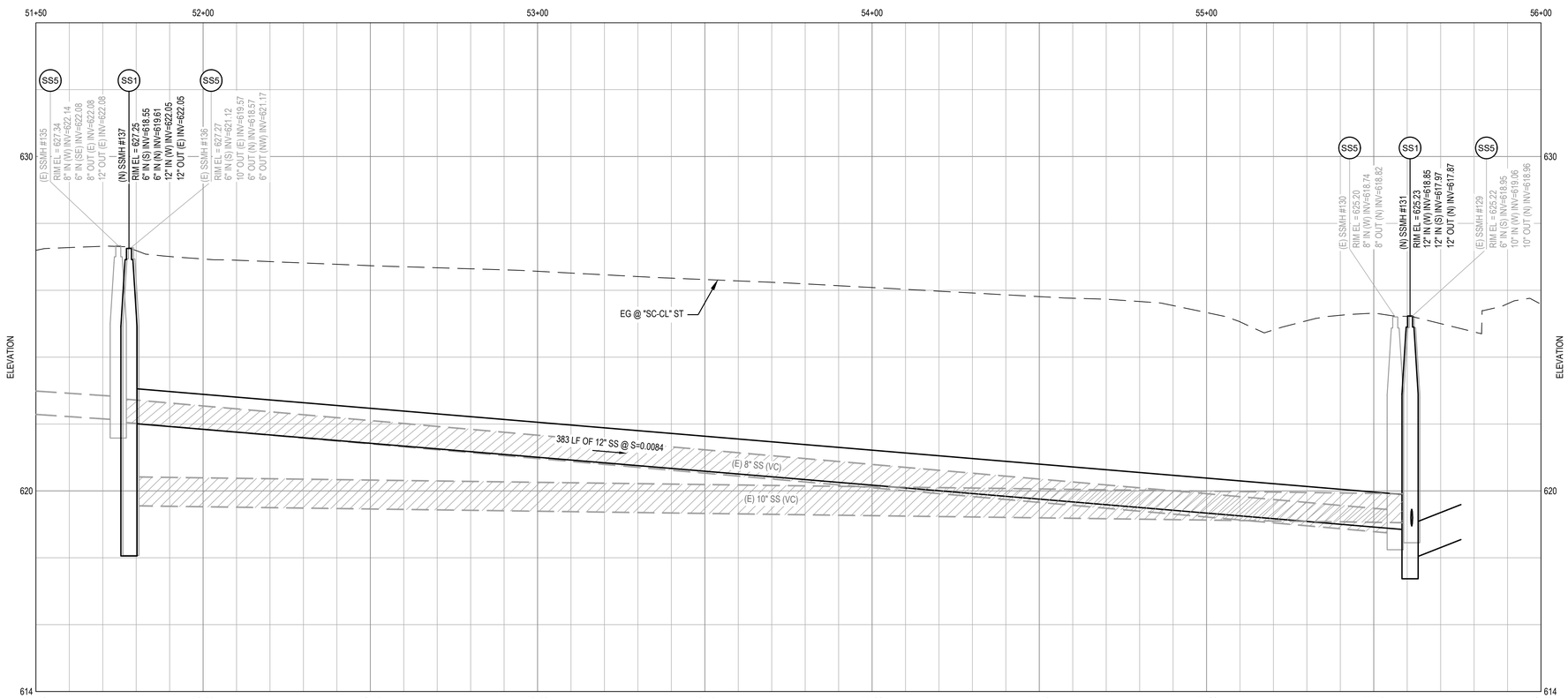


UTILITY PLAN SCOTT STREET

SCALE: 1" = 20'



UTILITY PROFILE N STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=4'

SHEET GENERAL NOTES

1. LOCATION OF EXISTING UTILITIES, STRUCTURES AND OBSTACLES ARE APPROXIMATE IN PLAN AND PROFILE AND BASED ON BEST AVAILABLE INFORMATION. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES TO SUCCESSFULLY COMPLETE THIS PROJECT. DAMAGE TO ANY EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (USA) AT (800) 227-2600 OR 811 A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR PLANNED WORK OPERATIONS FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES.
3. CONTRACTOR IS ADVISED OF THE PRESENCE OF SHALLOW STORM DRAINS THROUGHOUT THE PROJECT AREA. STORM DRAINS SHALL BE PROTECTED IN PLACE DURING ALL CONTRACTOR WORK.
4. CONTRACTOR SHALL UNDERTAKE CCTV INSPECTION OF THE EXISTING SANITARY SEWER MAIN AND CONFIRM THE LOCATION OF ALL LIVE SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION.
5. NOT ALL EXISTING UTILITIES ARE SHOWN ON PROFILE. REFER TO PLAN AND POTHOLE INFORMATION FOR APPROXIMATE LOCATION AND DEPTH OF (E) UTILITIES.
6. DO NOT EXCEED 80% OF THE MAX ALLOWABLE DEFLECTION AT PUSH-ON AND MECHANICAL JOINTS. MAX DEFLECTION AT PUSH-ON JOINTS IS 0.80°; MAX DEFLECTION AT MECHANICAL JOINTS AND COUPLINGS IS 4° OR AS PER MANUFACTURER'S REQUIREMENTS.
7. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL LOCATIONS PER CITY STD 312. CONCRETE THRUST BLOCKS SHALL BE INSTALLED IN ADDITION TO RESTRAINED PIPE WHERE LOCATED AT OR NEAR A PIPE LOWERING/PIPE RAISING LOCATION.
8. CONTRACTOR TO LOCATE EXISTING SANITARY SEWER LATERALS AND CLEANOUTS PRIOR TO HARDSCAPE REMOVAL. CONTRACTOR TO REMOVE AND RESTORE EXISTING HARDSCAPE (SEE HATCH ON PLANS). CONTRACTOR TO NOTIFY ENGINEER FOR ANY CONFLICTS WITH NEW SANITARY SEWER LATERAL PRIOR TO CONSTRUCTION. CONFLICTS SHALL BE HANDLED ON-SITE DURING CONSTRUCTION.

SHEET KEYNOTES

SD1. INSTALL (N) 48" STORM DRAIN MANHOLE
SD2. INSTALL (N) CALTRANS PRECAST DRAINAGE INLET TYPE G0 PLAN D773E
SD3. INSTALL (N) RCP STORM DRAIN PIPE, SEE SIZE ON PLANS
SD4. INSTALL (N) 12" DOME GRATE PER DETAIL 5 & 6 ON SHEET U-505
SD5. INSTALL PRECAST 24X24 DI WITH CAST-IN-PLACE FRAME AND TRAFFIC RATED GRATE
SD6. ADJUST (E) STORM DRAIN STRUCTURE TO FINISHED GRADE
SD7. REMOVE (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
SD8. ABANDON (E) DRAINAGE INLET/CATCH BASIN AND/OR PIPE
W1. ABANDON (E) WATER MAIN. REMOVE WHERE IN CONFLICT WITH THE (N) WATER MAIN. FILL WITH CONTROLLED LOW STRENGTH MATERIAL WHERE (E) WATER IS LOCATED UNDER BUILDINGS AND ROADWAYS. REMOVE (E) VALVES
W2. INSTALL (N) 12" WATER MAIN
W3. INSTALL (N) GATE VALVE PER CITY STD 307
W4. INSTALL (N) 45° BEND
W5. REMOVE (E) 12" X 12" X 6" TEE
W6. CONNECT TO (E) AC PIPE WITH "WIDE RANGE" STYLE COUPLING
W7. CAP (E) WATER MAIN
W8. REMOVE (E) WATER VALVE
W9. INSTALL (N) 12" X 12" X 8" TEE
W10. INSTALL (N) 6" X 6" X 12" TEE
W11 INSTALL (N) 12" X 12" X 12" TEE
W12. INSTALL (N) 12" X 12" X 6" TEE
W13. INSTALL BLIND FLANGE
W14. ADJUST (E) WATER VALVE TO FINISHED GRADE
W15. INSTALL (N) FIRE HYDRANT AND LATERAL PER DETAIL 1 ON SHEET U-503. MAINTAIN MINIMUM 3' CLEARANCE FROM (N) HYDRANT TO OTHER ABOVE GRADE OBSTRUCTIONS.
W16. PROVIDE SINGLE WATER SERVICE LATERAL PER CITY STD 301
W17. LOCATE AND CONNECT TO (E) SERVICE 1' FROM PROPERTY BOUNDARY
W18. REMOVE (E) FIRE HYDRANT AND VALVE
SS1. INSTALL (N) 48" SANITARY MANHOLE PER CITY STD 201
SS2. INSTALL (N) SDR 26 PVC SEWER MAIN, SEE SIZE ON PLANS
SS3. INSTALL TEMPORARY (N) 48" SANITARY SEWER MANHOLE
SS4. CONNECT TO (E) SEWER MAIN WITH COUPLING. CONTRACTOR TO LOCATE (E) SEWER IN FIELD AND MATCH (E) GRADES
SS5. REMOVE (E) SANITARY SEWER MANHOLE AND/OR PIPE
SS6. PROVIDE (N) 4" PVC SANITARY SEWER LATERAL PER CITY STD 213. REMOVE OR ABANDON (E) LATERAL
SS7. ADJUST (E) SANITARY SEWER STRUCTURE TO FINISHED GRADE
SS8. INSTALL (N) SS CLEANOUT PER DETAIL 2 ON SHEET U-502
SS9. LOCATE (E) SEWER LATERAL 1 FEET FROM PROPERTY BOUNDARY PER SECTION 77 OF THE SPECIAL PROVISIONS PRIOR TO INSTALLING WYE FOR (N) LATERAL.
SS10. INSTALL (N) END-LINE SSCO PER CITY STD 203
SS11. ABANDON (E) END-LINE SSCO
SS12. ABANDON (E) SANITARY SEWER MANHOLE AND/OR PIPE
U1. SEE STREET LIGHT PLANS FOR STREET LIGHT CONSTRUCTION INFORMATION
U2. (E) OVERHEAD LINE AND POLES TO BE REMOVED. SEE JOINT TRENCH PLANS FOR DETAILS
U3. ADJUST (E) UTILITY TO FINISHED GRADE
U4. SEE TRAFFIC SIGNAL PLANS FOR TRAFFIC POLES/BOXES CONSTRUCTION INFORMATION

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY PLAN & PROFILE SCOTT ST STA. 51+30 TO STA. 55+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

U-111

SHEET 23 OF 107

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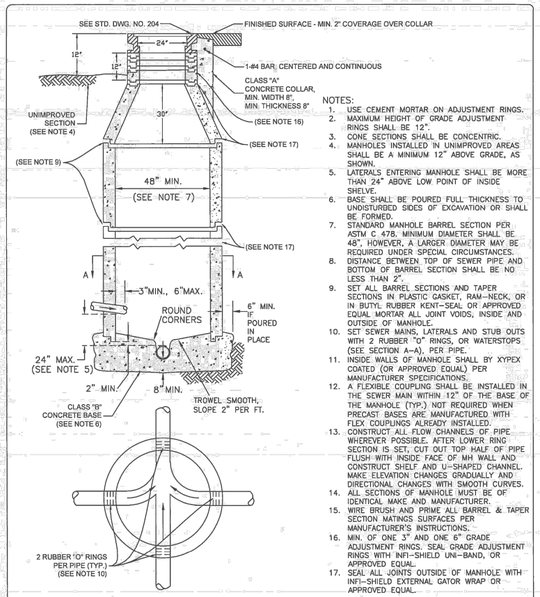


NOTES:

1. USE CEMENT MORTAR ON ADJUSTMENT RINGS.
2. MAXIMUM HEIGHT OF GRADE ADJUSTMENT RINGS SHALL BE 12".
3. CONE SECTIONS SHALL BE CONCENTRIC.
4. MANHOLES INSTALLED IN UNIMPROVED AREAS SHALL BE A MINIMUM 12" ABOVE GRADE, AS SHOWN.
5. LATERALS ENTERING MANHOLE SHALL BE MORE THAN 24" ABOVE LOW POINT OF INSIDE SHELVE.
6. BASE SHALL BE POURED FULL THICKNESS TO UNDISTURBED SIDES OF EXCAVATION OR SHALL BE FORMED.
7. STANDARD MANHOLE BARREL SECTION PER ASTM C 478. MINIMUM DIAMETER SHALL BE 48", HOWEVER, A LARGER DIAMETER MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES. DISTANCE BETWEEN TOP OF SEWER PIPE AND BOTTOM OF BARREL SECTION SHALL BE NO LESS THAN 2".
8. SET ALL BARREL SECTIONS AND TAPER SECTIONS IN PLASTIC GASKET, RAM–NECK, OR IN BUTYL RUBBER KENT–SEAL OR APPROVED EQUAL MORTAR ALL JOINT VOIDS, INSIDE AND OUTSIDE OF MANHOLE.
10. SET SEWER MAINS, LATERALS AND STUB OUTS WITH 2 RUBBER "O" RINGS, OR WATERSTOPS (SEE SECTION A–A), PER PIPE.
11. INSIDE WALLS OF MANHOLE SHALL BY XYPEX COATED (OR APPROVED EQUAL) PER MANUFACTURER SPECIFICATIONS.
12. A FLEXIBLE COUPLING SHALL BE INSTALLED IN THE SEWER MAIN WITHIN 12" OF THE BASE OF THE MANHOLE (TYP.) NOT REQUIRED WHEN PRECAST BASES ARE MANUFACTURED WITH FLEX COUPLINGS ALREADY INSTALLED.
13. CONSTRUCT ALL FLOW CHANNELS OF PIPE WHEREVER POSSIBLE. AFTER LOWER RING SECTION IS SET, CUT OUT TOP HALF OF PIPE FLUSH WITH INSIDE FACE OF MH WALL AND CONSTRUCT SHELF AND U–SHAPED CHANNEL. MAKE ELEVATION CHANGES GRADUALLY AND DIRECTIONAL CHANGES WITH SMOOTH CURVES.
14. ALL SECTIONS OF MANHOLE MUST BE OF IDENTICAL MAKE AND MANUFACTURER.
15. WIRE BRUSH AND PRIME ALL BARREL & TAPER SECTION MATINGS SURFACES PER MANUFACTURER'S INSTRUCTIONS.
16. MIN. OF ONE 3" AND ONE 6" GRADE ADJUSTMENT RINGS. SEAL GRADE ADJUSTMENT RINGS WITH INFI–SHIELD UN–SHRINK, OR APPROVED EQUAL.
17. SEAL ALL JOINTS OUTSIDE OF MANHOLE WITH INFI–SHIELD EXTERNAL GATOR WRAP OR APPROVED EQUAL.

DESIGN AND CONSTRUCTION STANDARDS
STANDARD SEWER MANHOLE
DRAWING NO: 201
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER

201 SEWER MANHOLE NOT TO SCALE

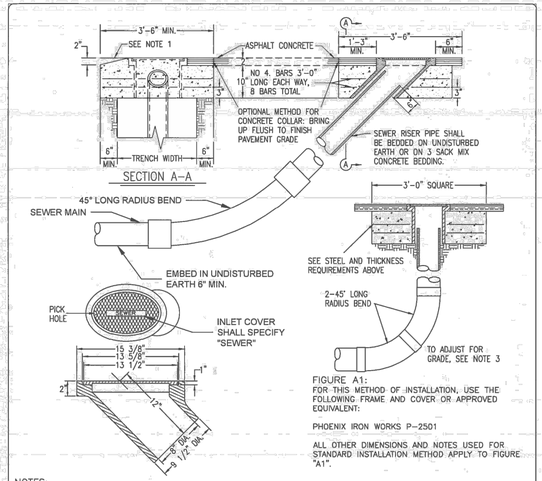


FIGURE A1:
FOR THIS METHOD OF INSTALLATION, USE THE FOLLOWING FRAME AND COVER OR APPROVED EQUIVALENT:

PHOENIX IRON WORKS P–2501

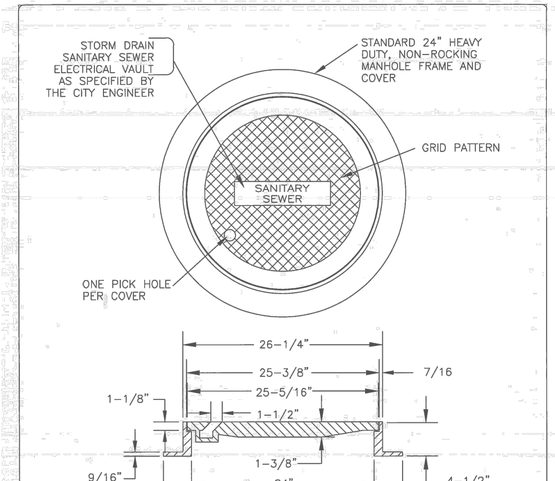
ALL OTHER DIMENSIONS AND NOTES USED FOR STANDARD INSTALLATION METHOD APPLY TO FIGURE "A1".

NOTES:

1. WHEN CLEANOUT IS OUTSIDE OF ROADWAY, SLOPE CONCRETE PAD AWAY FROM CASTING, AS SHOWN.
2. FOR ALTERNATE METHOD OF INSTALLATION, SEE FIGURE "A1".
3. TO ADJUST SEWER RISER PIPE FOR PROPER GRADE, A PORTION OF LONG RADIUS BEND MAY BE SAWCUT AND INSERTED INTO INLET FRAME AS SHOWN IN FIGURE "A1".
4. PROVIDE DUCTILE IRON TRAFFIC FRAME AND COVER MARKED "SEWER" WITH CHRISTY G–5 BOX.
5. REPLACE 45 DEGREE LONG RADIUS BEND WITH WYE FITTING FOR INLINE CLEANOUT.
6. SEWER LATERAL SHALL BE A MINIMUM 4" DIAMETER UNLESS SHOWN OTHERWISE ON THE DRAWINGS. SEWER LATERAL SHALL BE OF THE FOLLOWING MATERIAL:
   6.1. PVC, SDR 35, (ASTM D–3034) FOR OPEN TRENCH
   6.2. HDPE FOR PIPE BURSTING OR APPROVED EQUIVALENT.
7. MINIMUM SLOPE OF LATERAL 2% UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER, IN WHICH CASE THE SLOPE SHALL BE NO LESS THAN 1/8" PER FT.
8. BACKFILL LATERAL TRENCH PER STD. DRAWING NO. 220.

DESIGN AND CONSTRUCTION STANDARDS
MAINLINE SEWER CLEANOUT
DRAWING NO: 203
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER

203 SEWER CLEANOUT NOT TO SCALE

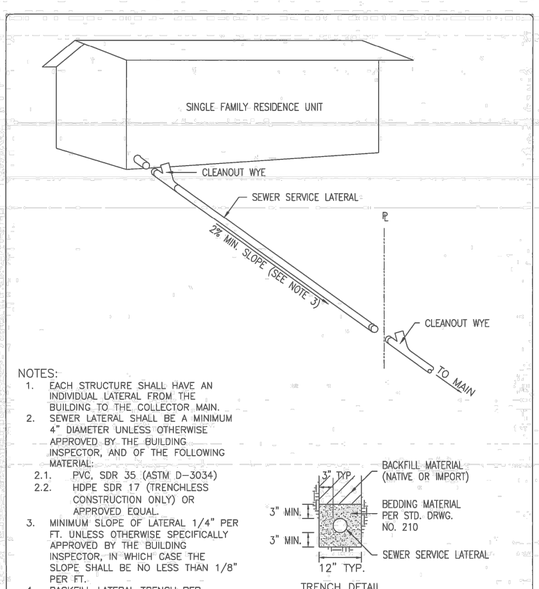


NOTES:

1. SPECIFY "STORM DRAIN", "SANITARY SEWER" OR "ELECTRICAL VAULT" WHEN ORDERING; ALL CASTINGS SHALL BE DIPPED IN ASPHALT PAINT (BLACK BITUMINOUS PAINT).
2. MINIMUM WEIGHT REQUIREMENTS:
   2.1. COVER – 130 POUNDS
   2.2. FRAME – 135 POUNDS
3. TITUS TWISTLIFT SECURITY LOCKS AND EJ COMPOSITE 2600 SERIES OR APPROVED EQUAL.

DESIGN AND CONSTRUCTION STANDARDS
MANHOLE FRAME AND COVER DETAIL
DRAWING NO: 204
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER

204 SEWER MANHOLE FRAME AND COVER NOT TO SCALE

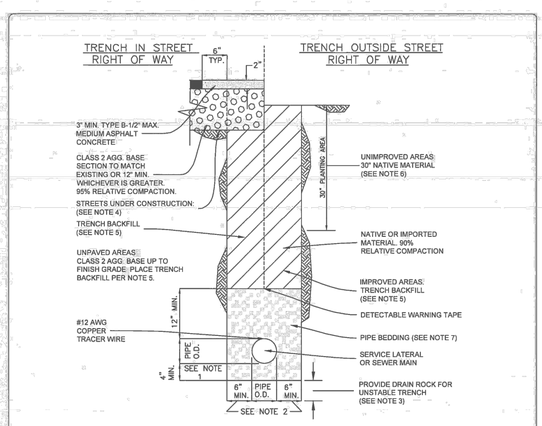


NOTES:

1. EACH STRUCTURE SHALL HAVE AN INDIVIDUAL LATERAL FROM THE BUILDING TO THE COLLECTOR MAIN.
2. SEWER LATERAL SHALL BE A MINIMUM 4" DIAMETER UNLESS OTHERWISE APPROVED BY THE BUILDING INSPECTOR, AND OF THE FOLLOWING MATERIAL:
   2.1. PVC, SDR 35 (ASTM D–3034)
   2.2. HDPE SDR 17 (TRENCHLESS CONSTRUCTION ONLY) OR APPROVED EQUAL.
3. MINIMUM SLOPE OF LATERAL 1/4" PER FT. UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE BUILDING INSPECTOR, IN WHICH CASE THE SLOPE SHALL BE NO LESS THAN 1/8" PER FT.
4. BACKFILL LATERAL TRENCH PER "TRENCH DETAIL" AND STD. DWG. NO. 210.

DESIGN AND CONSTRUCTION STANDARDS
SEWER SERVICE LATERAL
(PROPERTY LINE TO BUILDING)
DRAWING NO: 213
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER

213 SEWER SERVICE LATERAL PL TO BUILDING NOT TO SCALE



NOTES:

1. WHEN EXCAVATION IS IN ROCKY GROUND, USE THE GREATER OF 1/4 PIPE O.D. OR 4" MINIMUM.
2. FOR 18" DIAMETER OR LESS, USE 6" MINIMUM, 9" MAXIMUM; FOR GREATER THAN 18" DIA. USE 9" MINIMUM, 12" MAXIMUM.
3. FOR UNSTABLE TRENCH PROVIDE DRAIN ROCK FOR WIDTH OF TRENCH, DEPTH AS SPECIFIED ON THE IMPROVEMENT PLANS OR BY THE ENGINEER.
4. NEW STREET SECTION PER IMPROVEMENT PLANS.
5. TRENCH BACKFILL, 95% RELATIVE COMPACTION WITHIN 30" OF FINISH GRADE. REMAINING BACKFILL, 90% RELATIVE COMPACTION.

SIEVE SIZE	% PASSING
3/4"	95%
NO. 4	65% MIN.
NO. 100	15% MAX.

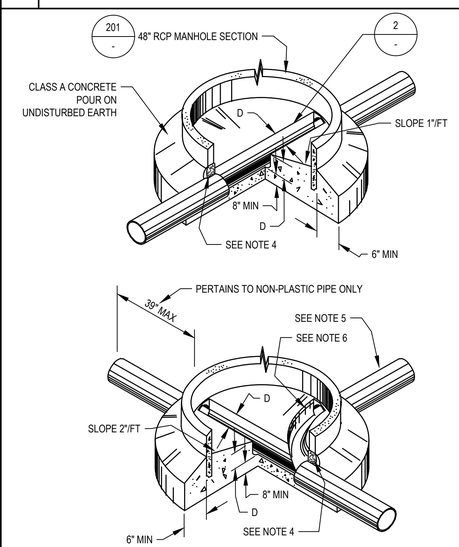
6. BACKFILL WITH NATIVE MATERIAL REMOVED FROM UPPER 30", 85% RELATIVE COMPACTION.
7. PIPE BEDDING, 90% RELATIVE COMPACTION.

SIEVE SIZE	% PASSING
3/4"	95 – 100%
NO. 4	55 – 100%

8. COMPACTION BY HAND AND MECHANICAL TAMPING IN 8" MAXIMUM LIFTS.

DESIGN AND CONSTRUCTION STANDARDS
TRENCH DETAIL
SERVICE LATERAL / SEWER MAIN
DRAWING NO: 220
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER

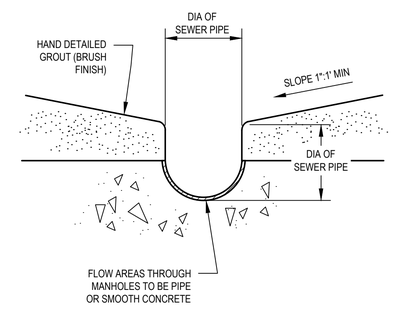
220 TRENCH DETAIL SERVICE LATERAL/SEWER MAIN NOT TO SCALE



NOTES:

1. THE FLOW CHANNEL SHALL BE OPEN FOR THE FULL WIDTH OF MANHOLE D = I.D. OF PIPE.
2. THE SHELF (SLOPED 1" PER FT.) SHALL HAVE LIGHT BROOM FINISH.
3. FOR APPROVED MANHOLE FRAMES AND COVERS SEE STD MANHOLE FRAME & COVER DETAIL.
4. ALL PIPES SHALL BE SEALED IN WITH A 4" MORTAR FILLET. FOR PLASTIC PIPE, ONE WATERSTOP SHALL BE ADDED AT EACH PIPE PENETRATION.
5. ANY SIDE INLET SHALL ENTER MANHOLE WITH INVERT AT LEAST 0.10' ABOVE INVERT OF OUTLET. IF PIPE SIZE INCREASES THRU MANHOLE, MATCH CROWNS, A DROP MANHOLE IS REQUIRED WHERE I.G. OF INLET IS OVER 6" ABOVE CROWN OF OUTLET.
6. MAINTAIN FULL PIPE DIAMETER AROUND SWEEP. DO NOT FAN-OUT. PROVIDE SMOOTH TRANSITION.

1 TYPICAL MANHOLE BASE DETAIL NOT TO SCALE



2 GROUTING DETAIL NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY DETAILS -1

PROJ NO: 11225278
DRWN: RB CHKD: JS

U-501

SHEET 24 OF 107

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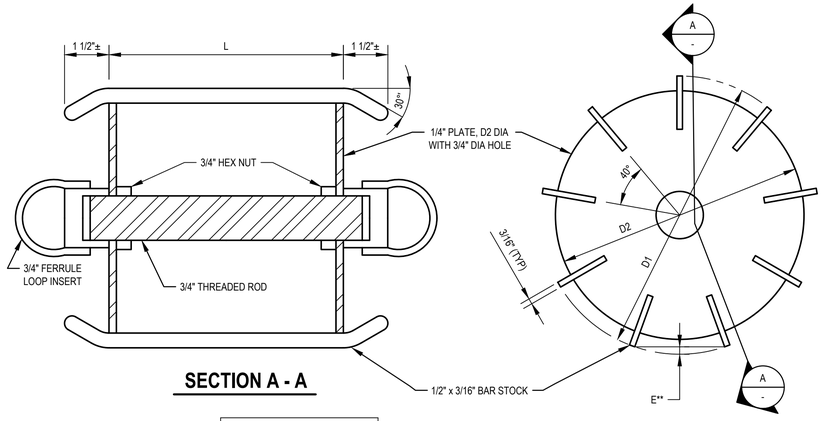


SECTION A - A

		5% DEFLECTION	
		ABS ASTM D 2751 PVC ASTM D 3034	
		SDR35	
NOM. DIA.	L	D1**	D2***
6"	6"	5.629	4.629
8"	8"	7.537	6.537
10"	10"	9.421	8.421
12"	12"	11.210	10.210
15"	15"	13.729	12.729

NOTES:

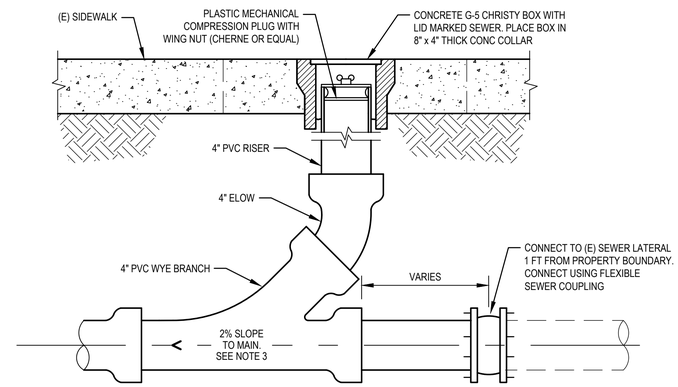
1. MARK ALL MANDRELS WITH ASTM SPECIFICATION NUMBER, SDR NUMBER AND DEFLECTION.
2. THE 1/2" BAR STOCK ON EDGE PROVIDES CLEARANCE TO PASS SMALL AMOUNTS OF SOIL WHICH MAY BE IN PIPE.

** 1. MANDREL DIA. HAS BEEN CALCULATED TO CORRECT CHORD LENGTH ERROR "E".

*** 2. MIN. PLATE DIAMETER

3. A PROVING RING OF THE SPECIFIED DIAMETER (D1) SHALL BE SUPPLIED WITH EACH DEFLECTION MANDREL.

1 PLASTIC SEWER PIPE DEFLECTION MANDREL NOT TO SCALE



NOTES:

1. THE SEWER SERVICE LATERAL SHALL BE OF SUFFICIENT DEPTH TO ADEQUATELY SERVE THE BUILDING SITE, AND IN NO CASE SHALL BE LESS THAN 3 FT. IN DEPTH AT THE BACK OF THE P.U.E. UNLESS OTHERWISE AUTHORIZED BY THE CITY.
2. WHERE PROBLEMS ARE ANTICIPATED IN PROVIDING SEWER SERVICE TO A GIVEN BUILDING SITE, THE LATERAL INVERT AT THE BACK OF THE P.U.E. SHALL BE STAKED BY THE OWNER'S ENGINEER.
3. MINIMUM 2% EXCEPT WHERE A VARIATION IS SPECIFICALLY APPROVED BY THE CITY.
4. LOCATE (E) SS LATERAL AT PROPERY BOUNDARY PRIOR TO INSTALLING WYE FOR NEW LATERAL.

2 SEWER SERVICE LATERAL CLEANOUT NOT TO SCALE

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY DETAILS -2

PROJ NO: 11225278

DRWN: RB CHKD: JS

U-502

SHEET 25 OF 107

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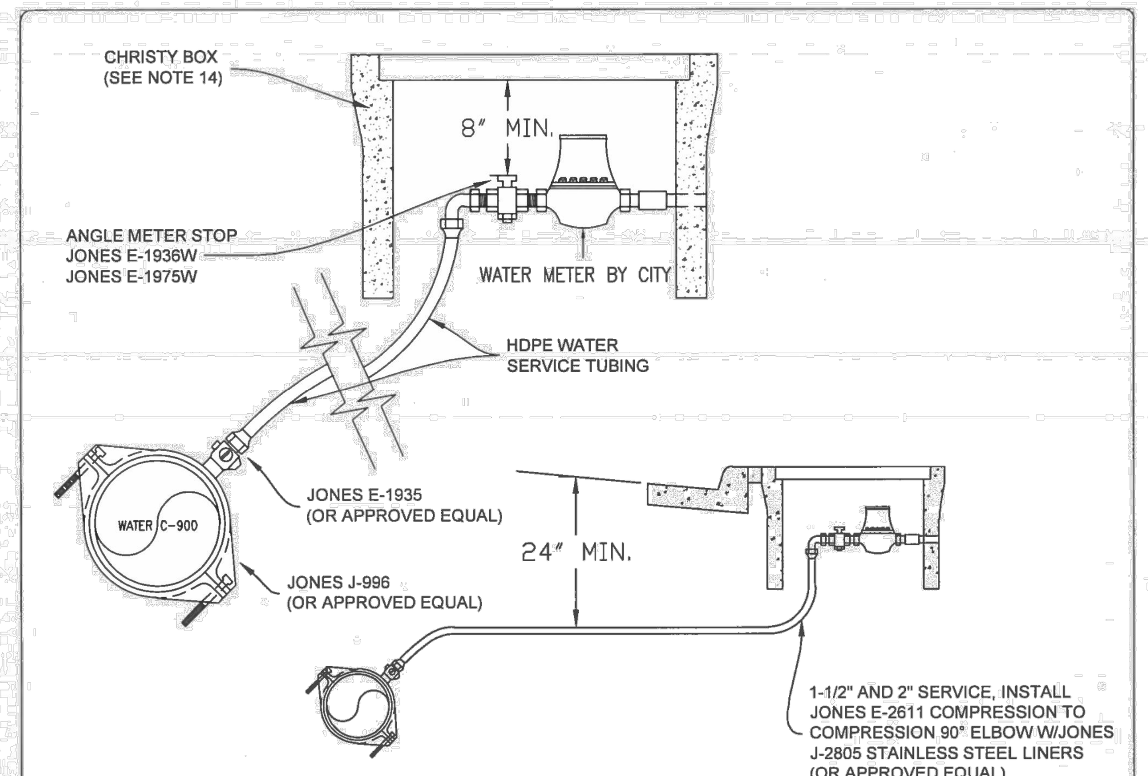
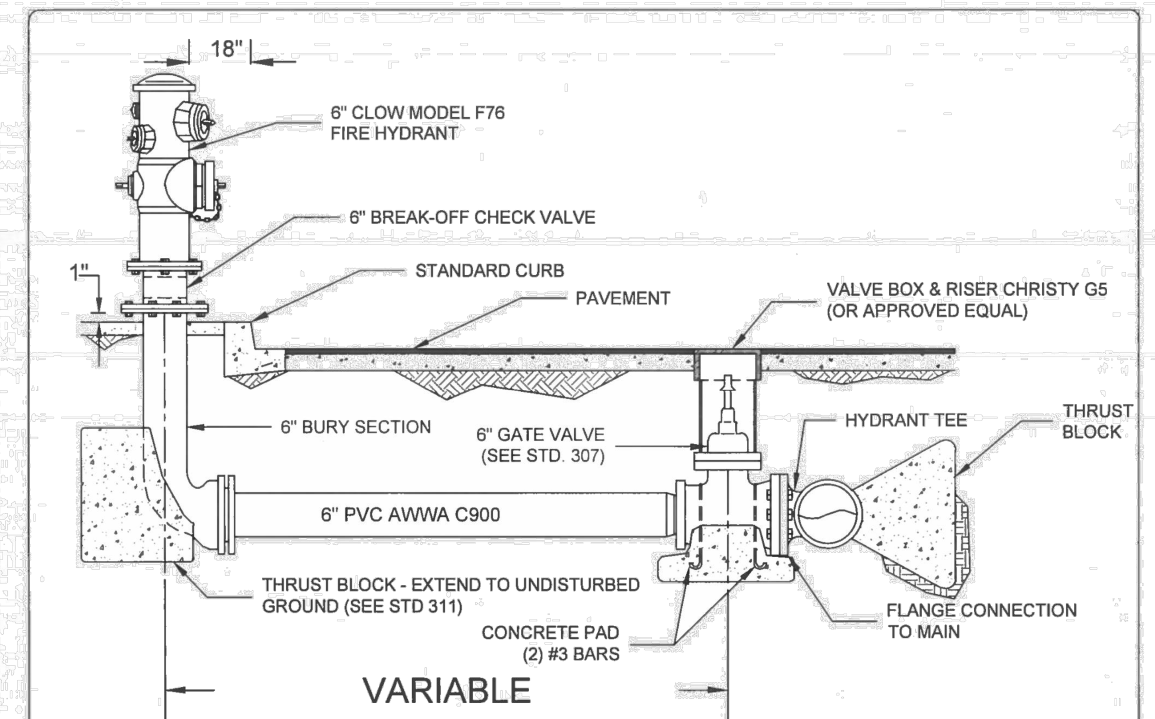


NOTES:
1. ALL WATER MATERIAL TO MEET OR EXCEED A.W.W.A. SPECIFICATIONS.
2. STAINLESS STEEL LINERS FOR USE WITH PLASTIC SERVICE PIPE ARE REQUIRED.
3. MUELLER, FOR AND MCDONALD FITTINGS ARE ALSO ACCEPTABLE.
4. FITTINGS MAY BE EITHER PACK JOINT OR INSTA–TITE.
5. MINIMUM COVER FOR SERVICE LINE IN STREET IS 24".
6. USE EITHER DOUBLE STRAP SERVICE CLAMP OR TAPPED COUPLINGS AT SERVICES.
7. P.E. FITTINGS MUST USE INSERTS FOR STIFFNESS.
8. PROVIDE ¾" GRAVEL BEDDING 3" MIN. THICKNESS FOR METER BOX.
9. CONTRACTOR TO LOCATE EXISTING WATER LATERAL IN THE FIELD AND CONNECT TO EXISTING WITHIN PUE.
10. WATER SERVICE LATERAL SHALL BE POLYETHELENE 3408M SDR 9 ASTM D–2737 200 PSI.
11. PROVIDE COPPER WIRE #10 OR LARGER. WRAP WIRE AROUND CORP. STOP AND MAIN LINE. LOCATE WIRE FOR CONTINUITY CONTACT.
12. PROVIDE CHRISTY METER BOX AND LID AS SPECIFIED BELOW OR APPROVED EQUIVALENT:

SERVICE	CHRISTY METER BOX	LID	LID
		TRAFFIC	NON–TRAFFIC
3/4"	B-12X	D-15X	61G15X
1"	B-16	G-30	61G15

DESIGN AND CONSTRUCTION STANDARDS
TYPICAL WATER SERVICE
3/4 INCH MIN. / 2 INCH MAX.
DRAWING NO. 301
DRAWN BY: A.S.
MAR. 2020 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER
City of Ukiah

301 TYPICAL WATER SERVICE NOT TO SCALE

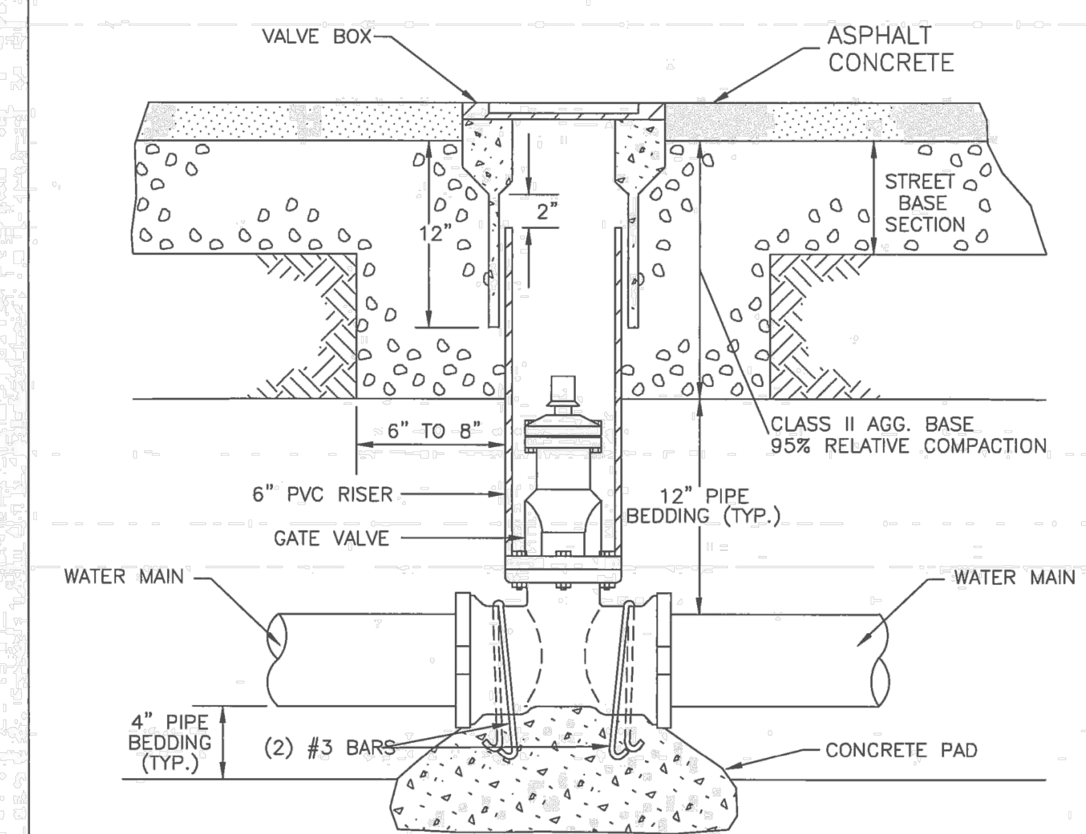


NOTES:
1. ON MAINS WHERE VALVES ARE TO BE INSTALLED ADJACENT TO TEES OR CROSSES, THE VALVES SHALL BE FLANGED X MJ WITH FLANGED END BOLTED DIRECTLY TO THE TEE OR CROSS.
2. WHEN HYDRANT IS AT STREET CORNER, PLACE 14"–18" INSIDE CURB RETURN.
3. FOR LOCATION IN PLANTER STRIP, CENTER OF FH IN 4" CONCRETE SLAB, 48"L X WIDTH OF STRIP.
4. APPLY SINGLE, FULL–STRENGTH COAT OF PAINT TO ENTIRE HYDRANT; PREVENT PAINT FROM ENTERING THREADS AT OUTLET CAPS. USE GLOSS WHITE OIL BASE PAINT: FULLER OBRIENT (STOCK #312–91), RUST–O–LEUM (STOCK #7692), STYLETONE (STOCK #819–01P) OR APPROVED EQUAL.
5. PROVIDE HYDRANT LOCATION MARKER SPECIFICATION 6–0.34 OF TRAFFIC MANUAL, STATE OF CALIFORNIA DOT. DEADEND RUNS UP TO 200 FT. MAY BE 6" PIPE WITH APPROVAL OF FIRE DEPARTMENT; RUNS IN EXCESS 200 FT. TO BE 8" PIPE.

DESIGN AND CONSTRUCTION STANDARDS
FIRE HYDRANT LATERAL
DRAWING NO. 305
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER
City of Ukiah

305 FIRE HYDRANT LATERAL NOT TO SCALE

NOTES:
1. VALVE BOXES SHALL BE SET FLUSH WITH FINISH STREET GRADE. BOX COVER SHALL INDICATE "WATER" ON TOP. VALVE BOXES SHALL BE CHRISTY G–5, OR APPROVED EQUAL.
2. VALVE CONNECTIONS SHALL BE PUSH–ON WHEN USING AWWA C900 PVC PIPE. CONNECTIONS SHALL BE MECHANICAL JOINT FOR PIPE OTHER THAN PVC.
3. GATE VALVES SHALL CONFORM TO AWWA STD C509 OF LATEST REV AND SHALL BE RESILIENT SEAT WITH MODIFIED WEDGE TYPE W/NON–RISING STEM OPENING COUNTER–CLOCKWISE W/ O–RING STEM SEAL AND SUITABLE ENDS FOR CONNECTIONS TO TYPE OF PIPE OR FITTING USED. USE AMERICAN DARLING CRS OR APPROVED EQUAL.
4. PVC RISER SHALL BE SDR 35 PVC SEWER PIPE CONFORMING TO ASTM 3034. RISER PIPE TO BE PLUMB AND CENTERED OVER VALVE STEM WITH NO JOINTS.
5. IF VALVE IS INSTALLED SO THAT TOP OF OPERATING NUT IS MORE THAN 30" BELOW FINISHED GRADE, INSTALL VALVE STEM RISER OF SUFFICIENT LENGTH TO RAISE NUT TO MAX 24" DEPTH.



DESIGN AND CONSTRUCTION STANDARDS
GATE VALVE AND VALVE BOX
DRAWING NO. 307
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER
City of Ukiah

307 WATER - GATE VALVE AND VALVE BOX NOT TO SCALE

REQUIRED AREA IN SQ. FT.						
PIPE SIZE	TEE DEADENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4°* BEND	VALVE
4"	3	4	2	1	1	2
6"	6	9	5	2	2	4
8"	11	16	8	4	2	7
10"	18	26	14	6	3	11
12"	26	37	20	10	5	15

* For bends less than 11 1/4°, use thrust areas shown for 11 1/4°, unless otherwise approved by the engineer.

NOTES

Thrust Blocking Table calculated for soil bearing capicity of 1,000 lbs./sq. ft. and 175 lbs./sq. in. test pressure.

Any greater soil bearing capicity than 1,000 lbs./sq. ft., shall be determined by an engineer, and approved by the City.

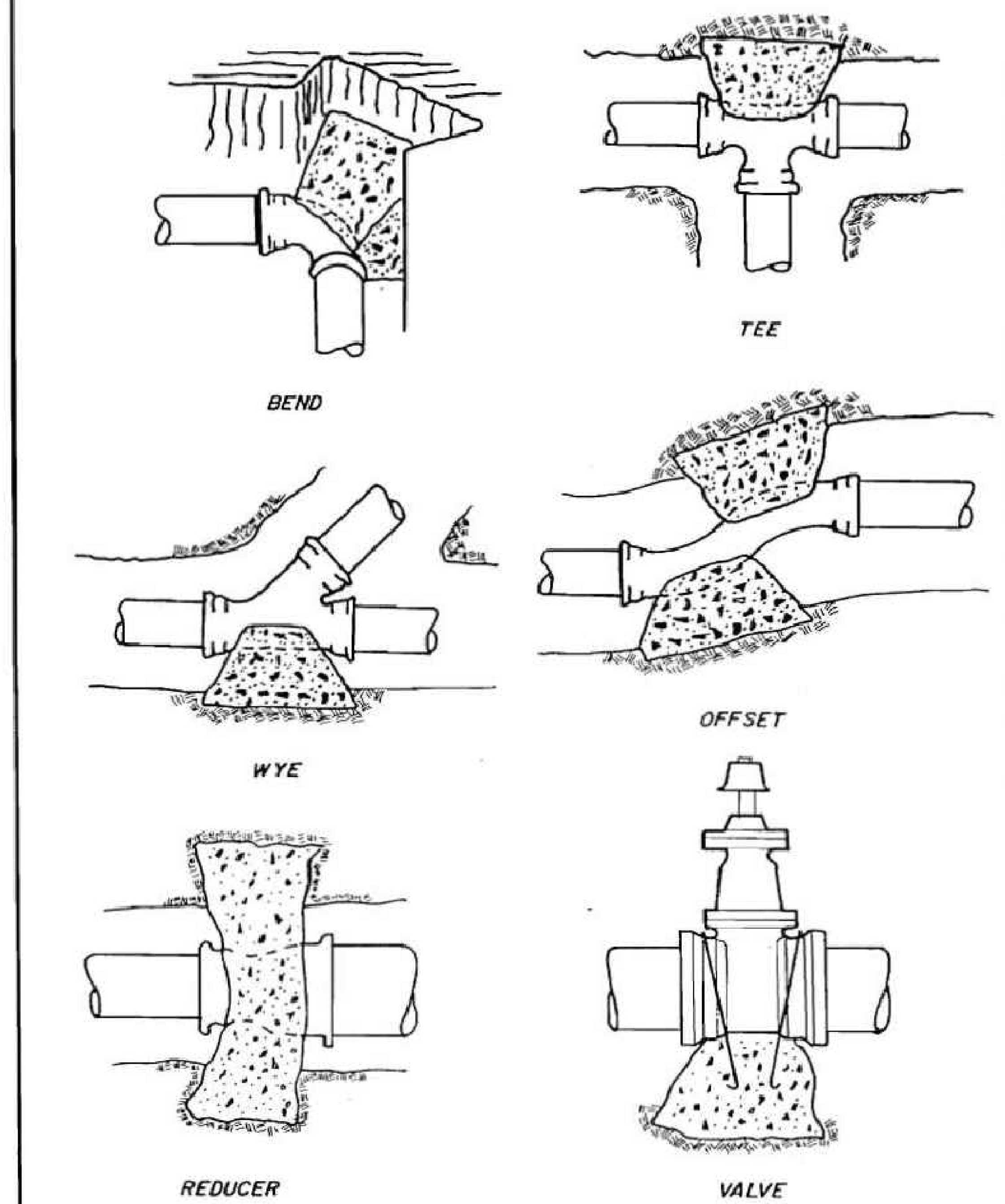
Concrete blocking shall be Class B concrete 2,000 lbs./sq. in..

Concrete blocking, cast in place, to extend from bells of fittings to undisturbed ground.

For plugged leg(s) of tee or cross with 90° flow pattern, use data listed for 90° bend.

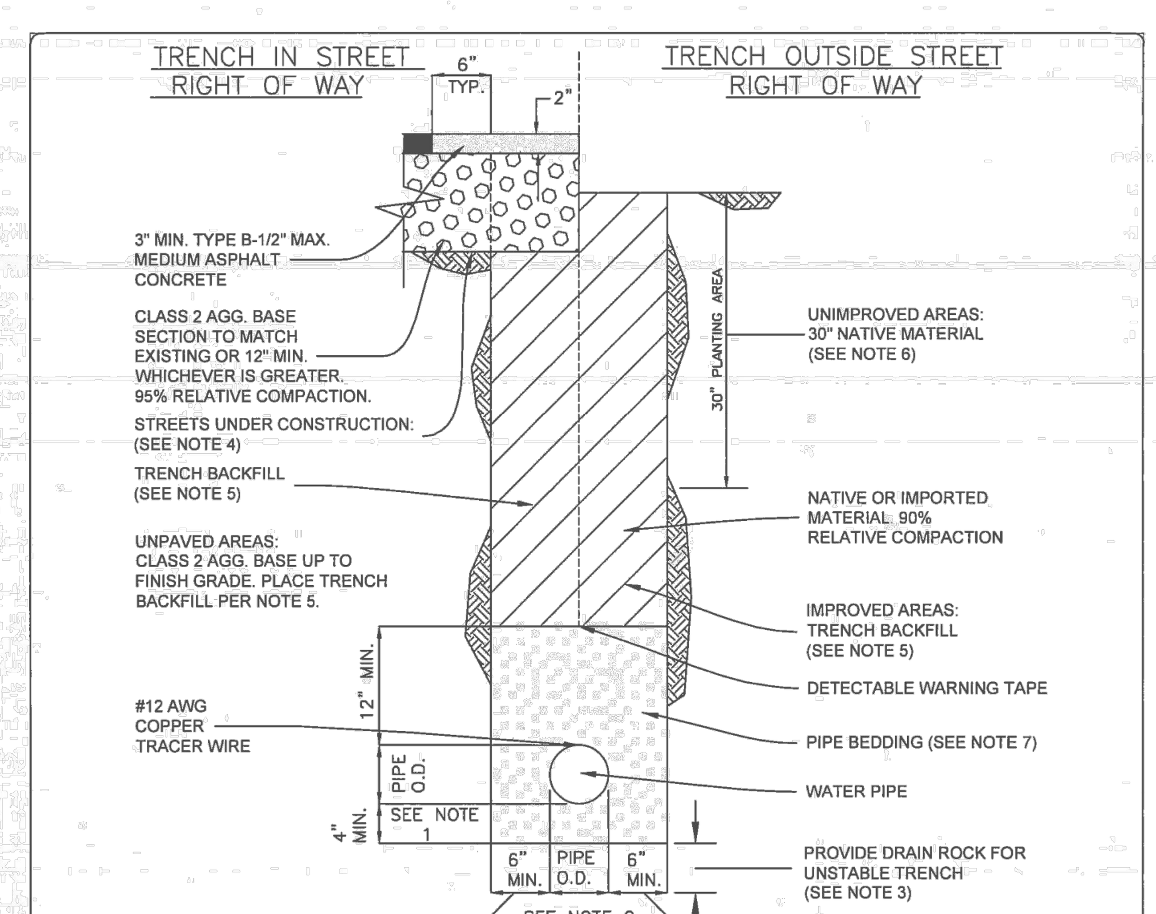
CITY OF UKIAH
THRUST BLOCK AREAS REQUIRED
Scale: None | Drawn By: | Approved By: R. Padronelli | Drawing No. 311
Date: 9/21/78 | Revised:

311 WATER - THRUST BLOCK AREAS REQUIRED NOT TO SCALE



CITY OF UKIAH
THRUST BLOCK LOCATIONS
Scale: None | Drawn By: | Approved By: R. Padronelli | Drawing No. 312
Date: 9/26/78 | Revised:

312 WATER - THRUST BLOCK LOCATIONS NOT TO SCALE



NOTES:
1. WHEN EXCAVATION IS IN ROCKY GROUND, USE THE GREATER OF 1/4 PIPE O.D. OR 4" MINIMUM.
2. FOR 18" DIAMETER OR LESS, USE 6" MINIMUM, 9" MAXIMUM; FOR GREATER THAN 18" DIA. USE 9" MINIMUM, 12" MAXIMUM.
3. FOR UNSTABLE TRENCH PROVIDE DRAIN ROCK FOR WIDTH OF TRENCH, DEPTH AS SPECIFIED ON THE IMPROVEMENT PLANS OR BY THE ENGINEER.
4. NEW STREET SECTION PER IMPROVEMENT PLANS.
5. TRENCH BACKFILL, 95% RELATIVE COMPACTION WITHIN 30" OF FINISH GRADE. REMAINING BACKFILL, 90% RELATIVE COMPACTION.

SIEVE SIZE	% PASSING
3/4"	95%
NO. 4	65% MIN.
NO. 100	15% MAX.

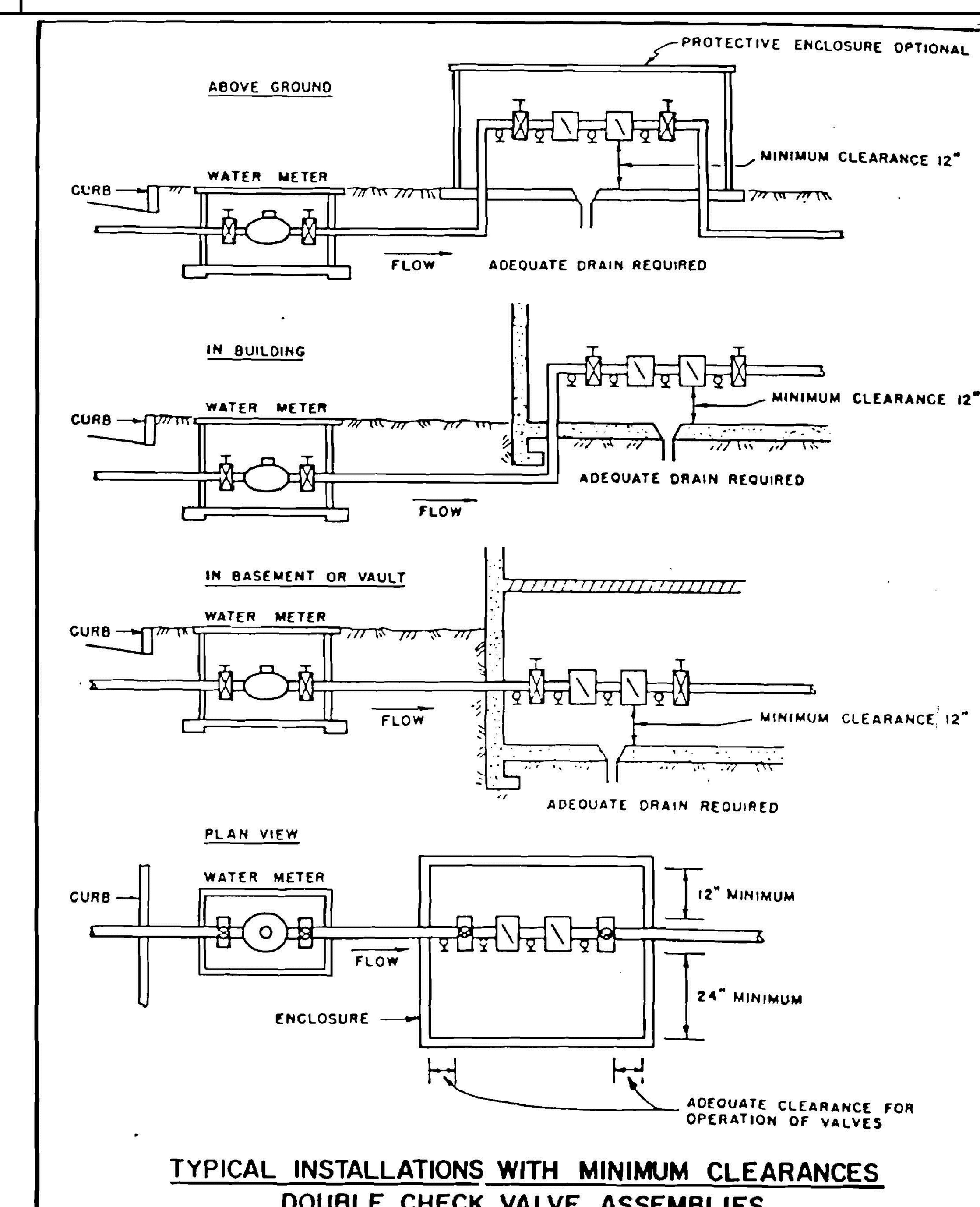
6. BACKFILL WITH NATIVE MATERIAL REMOVED FROM UPPER 30", 85% RELATIVE COMPACTION.
7. PIPE BEDDING, 90% RELATIVE COMPACTION.

SIEVE SIZE	% PASSING
3/4"	95 – 100%
NO. 4	55 – 100%

8. COMPACTION BY HAND AND MECHANICAL TAMPING IN 8" MAXIMUM LIFTS.

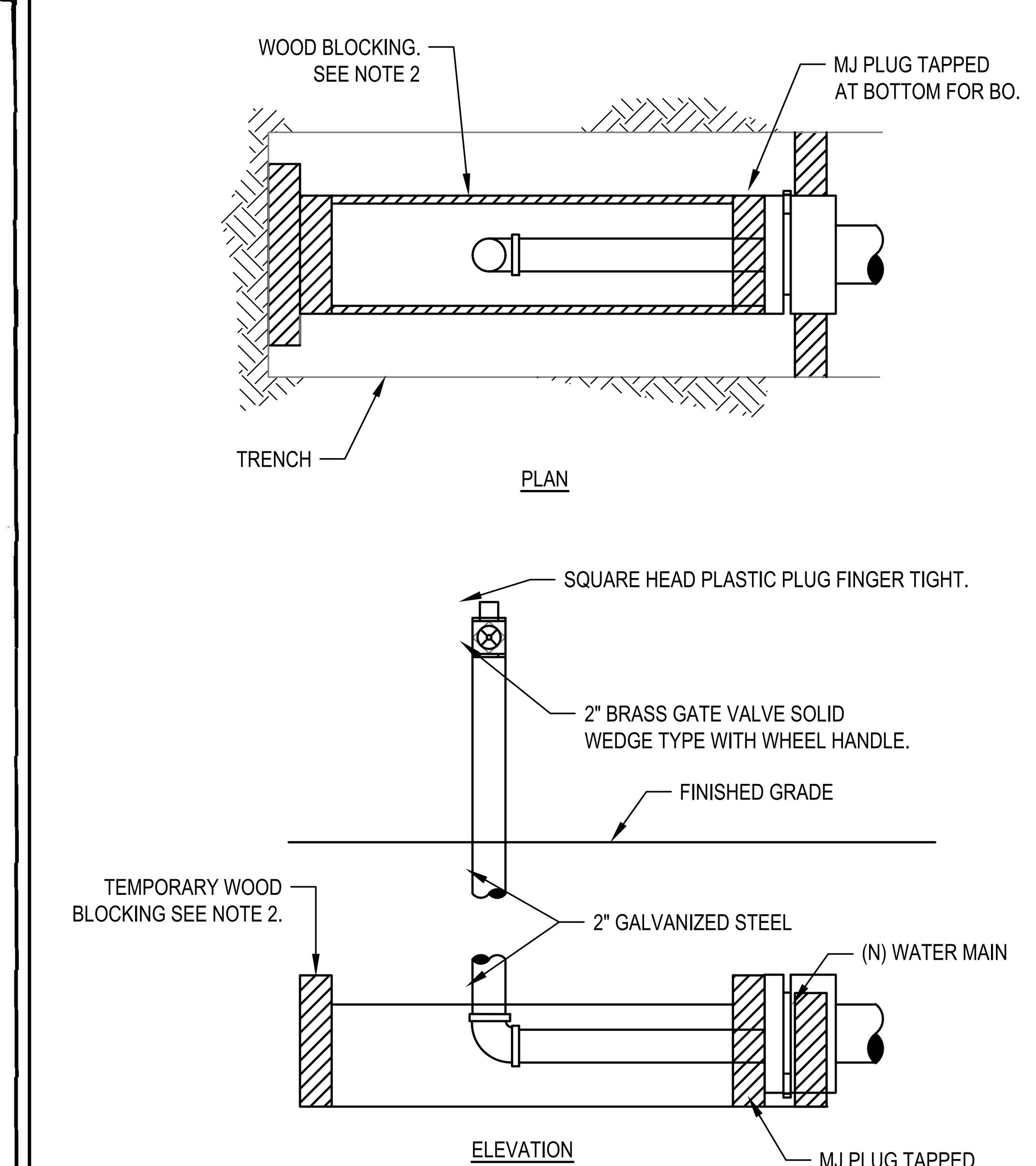
DESIGN AND CONSTRUCTION STANDARDS
TRENCH DETAIL FOR WATER LINE
DRAWING NO. 320
DRAWN BY: A.S.
DEC. 2019 - NTS
TIM ERIKSEN, PUBLIC WORKS DIRECTOR / CITY ENGINEER
City of Ukiah

320 TRENCH DETAIL FOR WATER LINE NOT TO SCALE



CITY OF UKIAH
BACKFLOW PREVENTION DETAILS
DOUBLE CHECK VALVE ASSEMBLIES
Scale: None | Drawn By: | Approved By: R. Padronelli | Drawing No. 383
Date: June, 1987 | Revised:

383 BACKFLOW PREVENTION DETAILS NOT TO SCALE



NOTES:
1. END OF (N) MAIN TO BE ON SAME GRADE AS (E) MAIN WHERE POSSIBLE.
2. TEMPORARY WOOD BLOCKING FOR THRUST RESTRAINT TO BE RATED TO EITHER 200PSI OR TEST PRESSURE PLUS 50PSI (WHICHEVER IS GREATER). THRUST BLOCKS SHALL EXTEND AGAINST UNDISTURBED GROUND.
3. CONTRACTOR SHALL MAKE FINAL TIE-IN UNDER THE INSPECTION OF A CITY UKIAH REPRESENTATIVE.
4. CONNECT TO (E) MAIN WITH APPROVED COUPLING.

2 TEMP BLOW OFF NOT TO SCALE

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MARK	DATE	DESCRIPTION
		ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

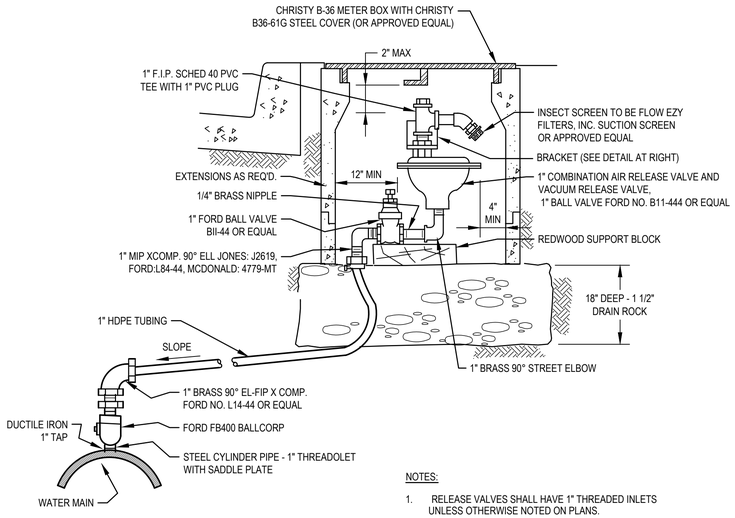
UTILITY DETAILS -3

PROJ NO: 11225278
DRWN: RB CHKD: JS

U-503

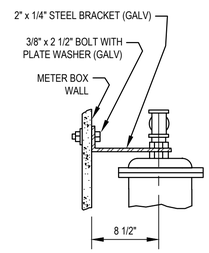
SHEET 26 OF 107

2023-02-22 5:08 PM JPARK2
N:\US\SANTA ROSA\PROJECTS\561\11225278\DIGITAL_DESIGN\ACAD 2020\SHEETS\11225278-GHD-0000-DWG-CI-UTL-0501 THRU 0503.DWG



NOTES:

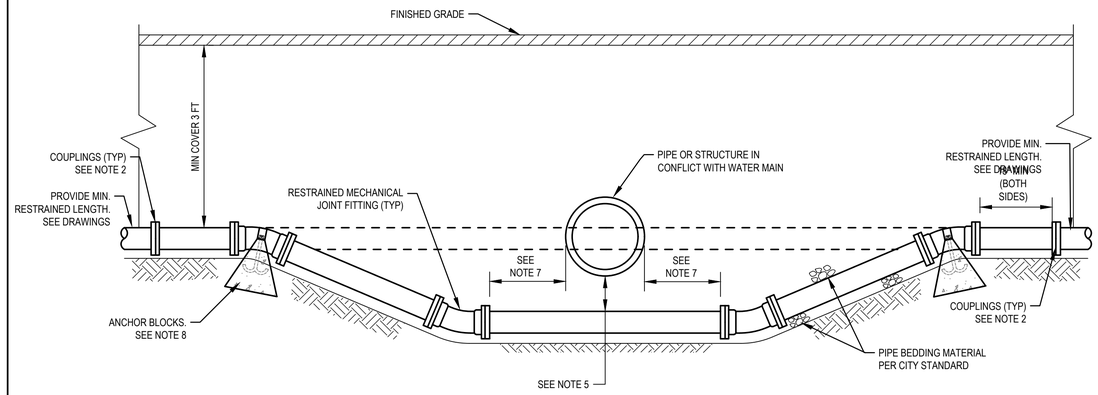
1. RELEASE VALVES SHALL HAVE 1" THREADED INLETS UNLESS OTHERWISE NOTED ON PLANS.
2. APPROVED COMBINATION VALVES: APCO NO.143C CRISPIN NO. U10.
3. AIR RELEASE AND VACUUM VALVE SHALL BE INSTALLED ON THE HIGH HIGH SIDE OF RIGHT-OF-WAY OR EASEMENT.



BRACKET DETAIL

1 TYPICAL INSTALLATION OF AIR RELEASE AND VACUUM VALVE

NOT TO SCALE

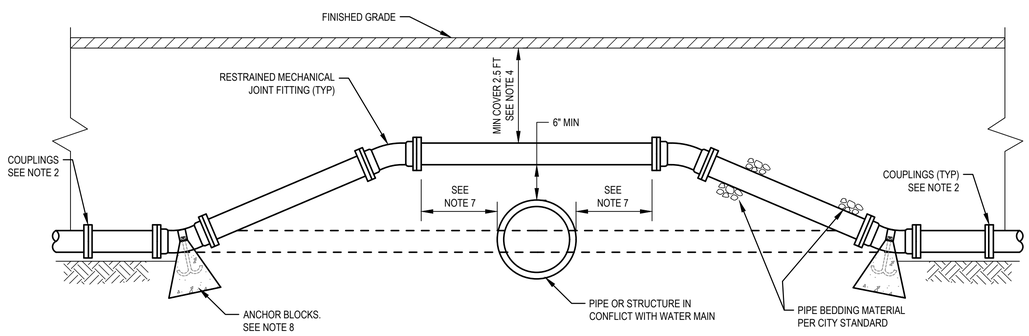


NOTES:

1. TO BE USED WITH THE APPROVAL OF THE CITY ENGINEER, UON. WHERE PIPE/ STRUCTURE TO BE CROSSED IS A SANITARY SEWER OR STORM DRAIN LINE, THIS INSTALLATION SHALL ONLY BE INSTALLED WHERE FIELD CONDITIONS DO NOT ALLOW FOR PROPER SEPARATIONS AS PER TITLE 22, SECTION 64572 "WATER MAIN SEPARATION" OF THE CALIFORNIA CODE OF REGULATIONS.
2. WHERE STRUCTURE TO BE CROSSED IS AN ELECTRICAL DUCT BANK PROVIDE APPROVED COUPLINGS AS SHOWN. COUPLINGS ARE NOT REQUIRED FOR ALL OTHER UTILITY CROSSINGS
3. PIPE SHALL BE DUCTILE IRON CLASS 350 AND WRAPPED IN POLYETHYLENE PER SPECIFICATIONS.
4. ALL BENDS SHALL BE 45° OR 22 1/2° FITTINGS. NO 90° BENDS ALLOWED.
5. MINIMUM 12" CLEARANCE UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
6. ONLY RESTRAINED MECHANICAL JOINT FITTINGS MAY BE USED.
7. MAINTAIN MINIMUM DISTANCES AS FOLLOWS:
   a. 2' FOR 4" AND 6" SANITARY SEWER LATERALS OR OTHER PIPE/STRUCTURE NOT CONVEYING NON-POTABLE FLUIDS.
   b. 4' FOR SANITARY SEWER PIPE 8" TO 18" AND ANY SIZE STORM DRAIN PIPES.
8. CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED BY THE CONTRACTOR WHERE SITE CONDITIONS DO NOT ALLOW FOR A "RESTRAINED JOINT SYSTEM". CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED TO WITHSTAND EITHER 200 PSI OR TEST PRESSURE THRUST FORCE PLUS 50 PSI (WHICHEVER IS GREATER). PROVIDE:
   a. PIPE SIZE 6": ANCHOR BOLTS 5/8"; STEEL CLAMPS 3" X ¼"
   b. PIPE SIZE 8": ANCHOR BOLTS 3/4"; STEEL CLAMPS 3-1/4"X 1/4"
   c. PIPE SIZE 12": ANCHOR BOLTS 1-1/8"; STEEL CLAMPS 4"X1/2"

2 TYPICAL WATER MAIN LOWERING DETAIL

NOT TO SCALE

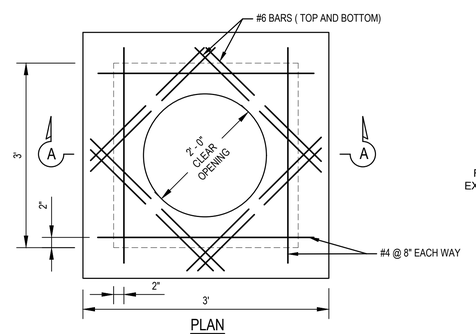


NOTES:

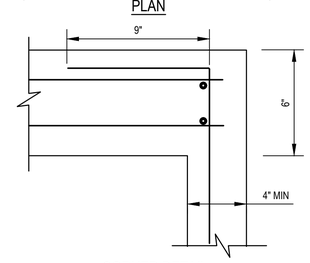
1. TO BE USED WITH THE APPROVAL OF THE CITY ENGINEER, UON. WHERE PIPE/ STRUCTURE TO BE CROSSED IS A SANITARY SEWER OR STORM DRAIN LINE, THIS INSTALLATION SHALL ONLY BE INSTALLED WHERE FIELD CONDITIONS DO NOT ALLOW FOR PROPER SEPARATIONS AS PER TITLE 22, SECTION 64572 "WATER MAIN SEPARATION" OF THE CALIFORNIA CODE OF REGULATIONS.
2. WHERE STRUCTURE TO BE CROSSED IS AN ELECTRICAL DUCT BANK PROVIDE APPROVED COUPLINGS AS SHOWN. COUPLINGS ARE NOT REQUIRED FOR ALL OTHER UTILITY CROSSINGS
3. PIPE SHALL BE DUCTILE IRON CLASS 350 AND WRAPPED IN POLYETHYLENE PER SPECIFICATIONS.
4. WHERE COVER IS LESS THAN MINIMUM 3FT, BACKFILL WITH LOW STRENGTH CEMENT SLURRY.
5. ALL BENDS SHALL BE 45° OR 22 1/2° FITTINGS. NO 90° BENDS ALLOWED.
6. ONLY RESTRAINED MECHANICAL JOINT FITTINGS MAY BE USED.
7. MAINTAIN MINIMUM DISTANCES AS FOLLOWS:
   a. 2' FOR SANITARY SEWER LINES UP TO 18" DIA, ANY SIZE STORM DRAIN AND ANY OTHER PIPE/ STRUCTURE NOT CONVEYING NON-POTABLE FLUID
   b. 4' FOR SANITARY SEWER LINES LARGER THAN 18" DIA.
8. CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED BY THE CONTRACTOR WHERE SITE CONDITIONS DO NOT ALLOW FOR A "RESTRAINED JOINT SYSTEM". CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED TO WITHSTAND EITHER 200 PSI OR TEST PRESSURE THRUST FORCE PLUS 50 PSI (WHICHEVER IS GREATER). PROVIDE:
   a. PIPE SIZE 6": ANCHOR BOLTS 5/8"; STEEL CLAMPS 3" X ¼"
   b. PIPE SIZE 8": ANCHOR BOLTS 3/4"; STEEL CLAMPS 3-1/4"X 1/4"
   c. PIPE SIZE 12": ANCHOR BOLTS 1-1/8"; STEEL CLAMPS 4"X1/2".

3 TYPICAL WATER MAIN INSTALLATION OVER STRUCTURE

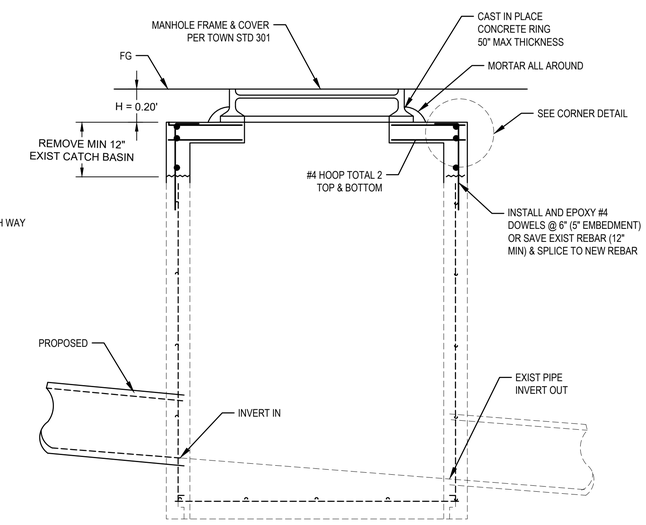
NOT TO SCALE



PLAN



CORNER DETAIL



SECTION A - A

4 MODIFY EXISTING INLET (DI) TO MANHOLE

NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
N. SHAMAS
No. C87192
Exp. 9/30/23
CIVIL
STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY DETAILS - 4

PROJ NO: 11225278
DRWN: RB CHKD: JS

U-504

SHEET 27 OF 107

2023-02-22 5:08 PM JPARK2
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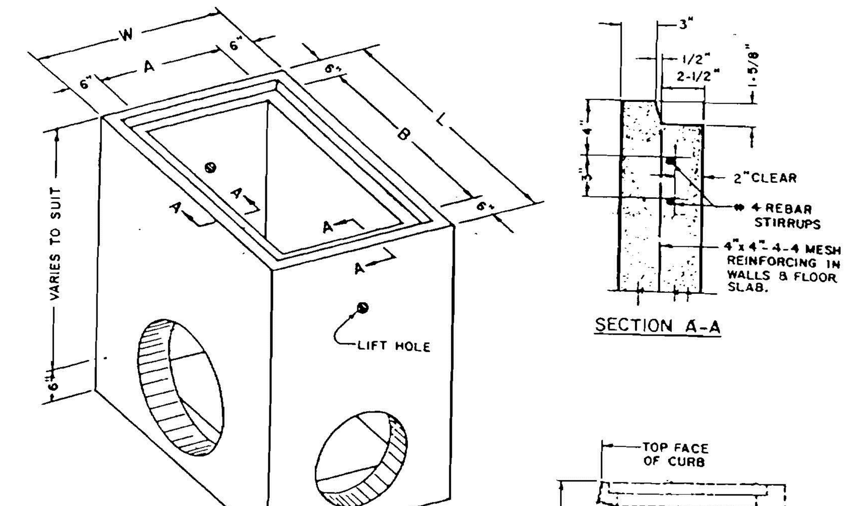
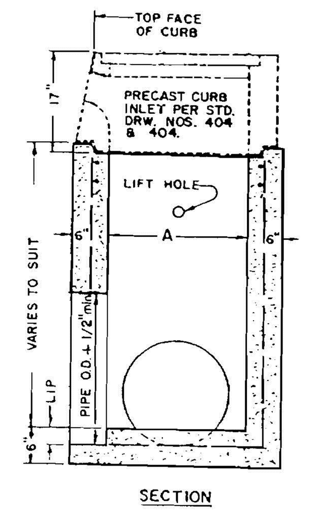


NOTES:
1. OPENINGS SHALL BE CAST AS REQUIRED TO MEET CONNECTING STORM DRAIN PIPING.
2. DEFLECTED OPENINGS MAY BE CHIPPED IN GREEN CONCRETE.
3. CONCRETE SHALL TEST 3000 p.s.i. AT 28 DAYS.
4. BASE SECTIONS OVER 4' IN WALL HEIGHT MAY BE CAST IN TWO PIECES.
5. REFER TO STD. DRWG. NOS. 404 & 406 FOR SETTING DETAILS.
6. APPROVED MANUFACTURER(S): SANTA ROSA CAST PRODUCTS CO.

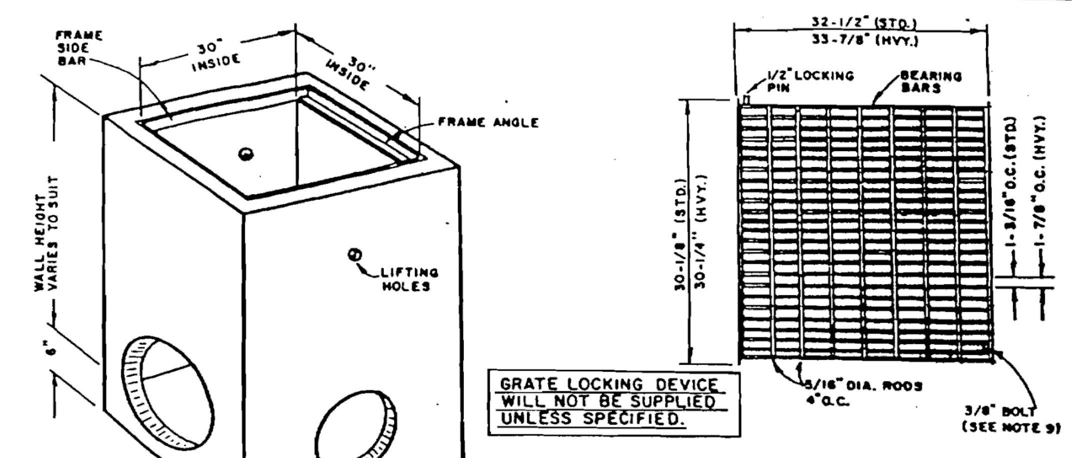


PRECAST CURB INLET MODEL	BASE SECTION DIMENSIONS				WEIGHT OF BASE COMPONENTS		
	A	B	W	L	WALL PER VERTICAL FT.	6" FLOOR SLAB	CURB INLET & COVER
~~MODEL 2-1/2A~~	~~2'-0"~~	~~2'-6"~~	~~3'-0"~~	~~3'-6"~~	~~825 lb~~	~~375 lb~~	~~700 lb~~
MODEL 4AC	3'-0"	4'-0"	4'-0"	5'-0"	1200 lb	900 lb	1500 lb

CITY OF UKIAH
PRECAST BASE SECTION FOR CURB INLET

Scale: NO SCALE	Drawn By: ML	Approved By: 4/88 R. Pedroncelli	Drawing No. 408
Date: 3/24/87	Revised:		

408 **PRECAST BASE SECTION FOR CURB INLET** NOT TO SCALE



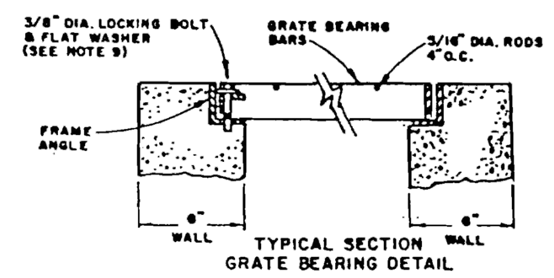
GRATE LOCKING DEVICE WILL NOT BE SUPPLIED UNLESS SPECIFIED.

GRATE

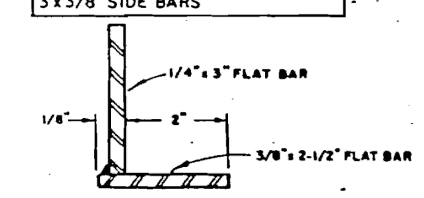
STANDARD GRATE 26 BEARING BARS, 1-1/4" x 3/16" 2 BANDING BARS, 1" x 3/16"
HEAVY GRATE 17 BEARING BARS, 3" x 1/4" 2 BANDING BARS, 2-1/2" x 1/4"

FRAME

STANDARD FRAME ANGLES, 1-1/2" x 1-1/2" x 3/16" SIDE BARS, 1-1/2" x 1/4"
HEAVY FRAME ANGLES (SEE DETAIL BELOW) 3" x 3/8" SIDE BARS

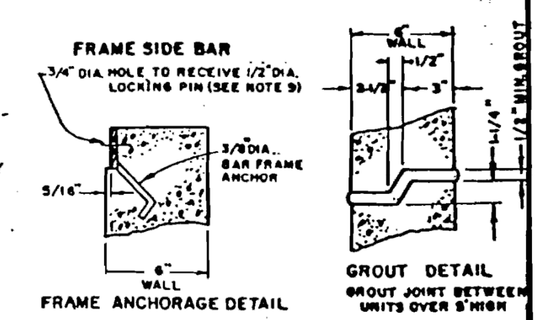


TYPICAL SECTION
GRATE BEARING DETAIL



HEAVY GRATE FRAME DETAIL

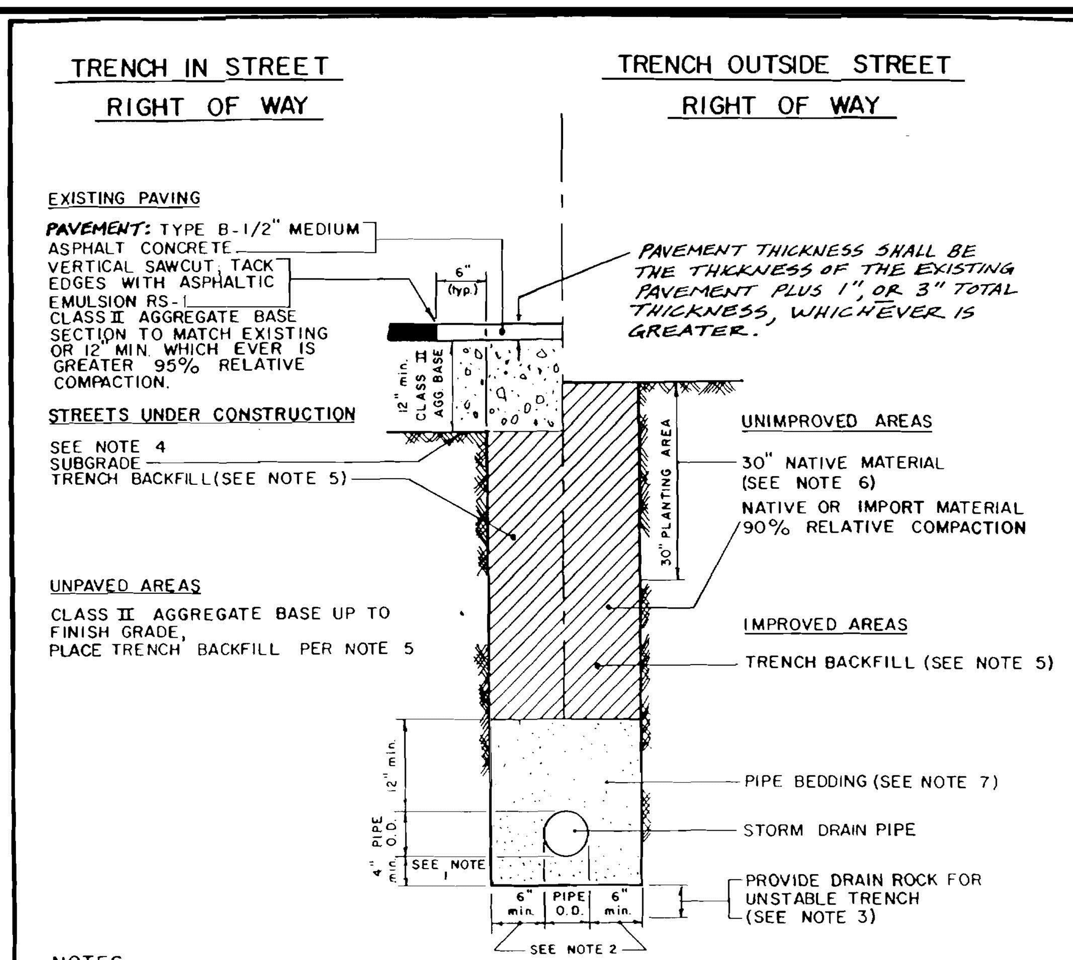
NOTES:
1. UNITS ARE "TAILOR MADE" TO JOB REQUIREMENTS.
2. OPENINGS SHALL BE CAST AS REQUIRED TO MEET CONNECTING STORM DRAIN PIPING.
3. DEFLECTED OPENINGS MAY BE CHIPPED IN GREEN CONCRETE.
4. REFER TO MANUFACTURERS SPECIFICATIONS FOR DEPTHS OVER 5'-0".
5. CONCRETE SHALL TEST 3000 PSI. AT 28 DAYS.
6. WALLS AND FLOOR SLAB ARE REINFORCED WITH 4"x4"-6-6 WELDED WIRE MESH.
7. WALLS AND FLOOR SLAB ARE 6" THICK.
8. METAL FRAME & GRATE SHALL BE GALVANIZED AFTER FABRICATION PER ASTM SPECIFICATION A123.
9. GRATE SHALL BE SECURED TO DROP INLET FRAME WITH ONE 3/8" DIA. UNC PLATED STEEL MACHINE BOLT. OPTIONAL VANDAL PROOFING FEATURE ONLY WHEN SPECIFIED.
10. CLEAR GRATE OPENING IS 5.20 SQ.FT
11. WEIGHT OF WALLS PER VERTICAL FOOT = 900 LBS.
12. WEIGHT OF FLOOR SLAB = 900 LBS.
13. SANTA ROSA CAST PRODUCTS (OR EQUAL) MODEL 5K



CITY OF UKIAH
PRECAST CONCRETE DROP INLET

Scale: NONE	Drawn By: SK	Approved By:	Drawing No. 412
Date: MAY 1991	Revised:		

412 **PRE-CAST CONCRETE DROP INLET** NOT TO SCALE



NOTES:
1. When excavation is in rocky ground, use the greater of 1/4 pipe o.d. or 4" minimum.
2. For 18" diameter pipe, or less, use 6" minimum, 9" maximum; for greater than 18" dia. use 9" minimum, 12" maximum.
3. For unstabe trench provide drain rock for width of trench, depth as specified on the improvement plans or by the engineer.
4. New street section per improvement plans.
5. Trench backfill, 95% relative compaction. within 30" of finish grade. Remaining backfill, 90% relative compaction.

Sieve size	% passing
3/4"	95 %
No. 4	65 % min.
No. 100	15 % max.

6. Backfill with native material removed from upper 30", 85% relative compaction.
7. Pipe bedding, 90% relative compaction.

Sieve size	% passing
3/4"	95 - 100 %
No. 4	55 - 100 %

8. Compaction: hand and mechanical tamping in 8" maximum lifts.

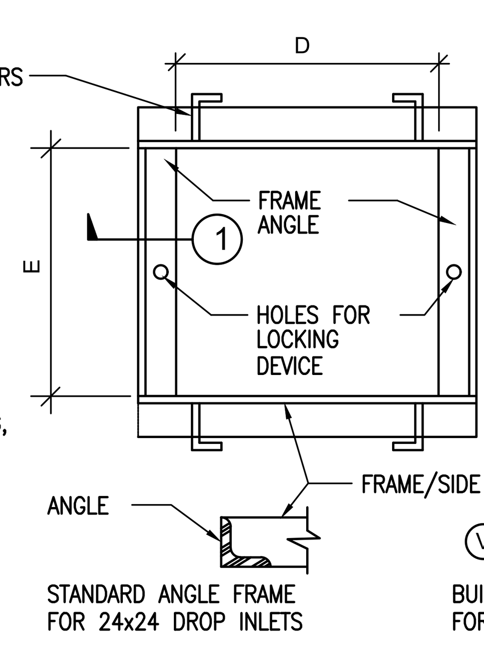
REVISED: 2/25/99

CITY OF UKIAH
TRENCH DETAIL
STORM DRAIN PIPE

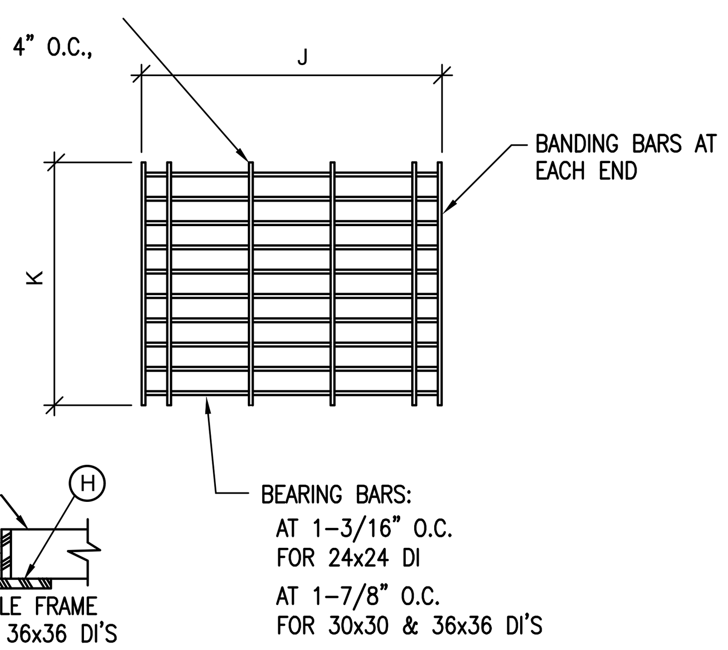
Scale: no scale	Drawn By: ML	Approved By: 4/88 R. Pedroncelli	Drawing No. 420
Date: 2/20/87	Revised:		

420 **TRENCH DETAIL STORM DRAIN PIPE** NOT TO SCALE

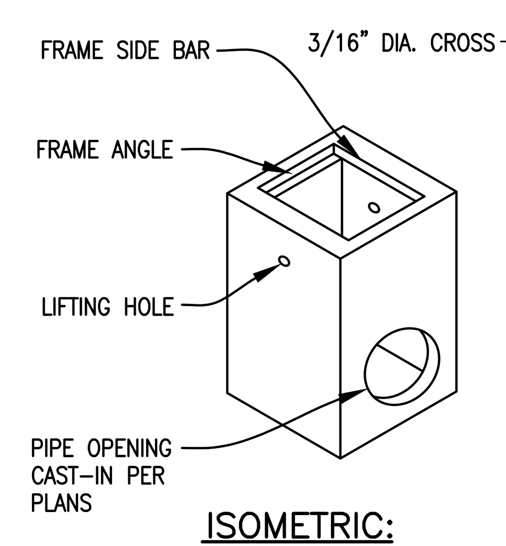
NOTES :
1. FRAME AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A-123
2. ALL GRATING MUST BE RATED FOR H20 LOADING, MINIMUM.



FRAME PLAN



GRATE PLAN

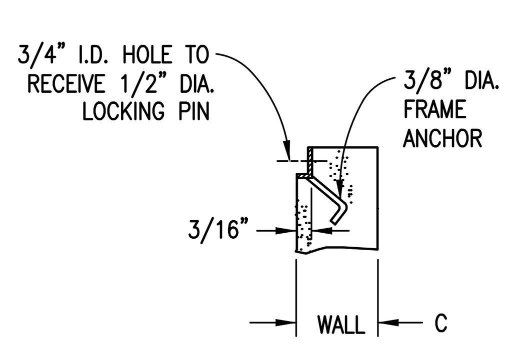


ISOMETRIC:

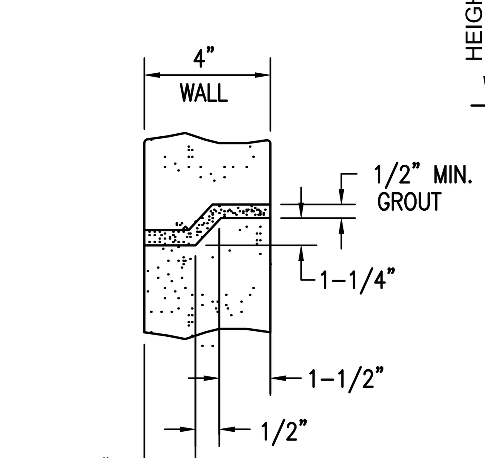
DROP INLET TABLE		
A (IN)	B (IN)	C (IN)
12	12	4

FRAMES					
A	B	D	E	FRAME ANGLE	SIDE BAR
IN	IN	IN	IN	IN	IN
12	12	12-3/8	12-3/8	2-1/2x1-1/2X3/16	2x1/4

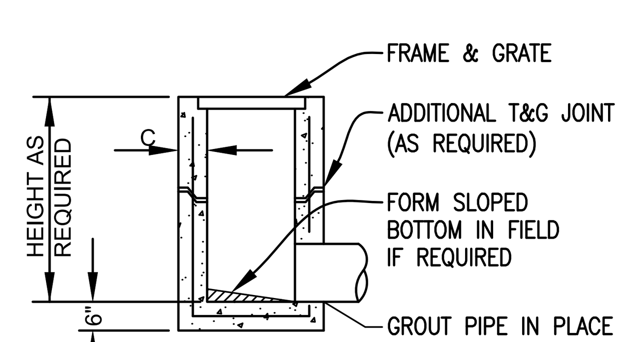
GRATES			
J	K	BEARING BARS	BANDING BARS
IN	IN	IN	IN
14-11/16	12-1/8	2-1/4x3/16	2x3/16



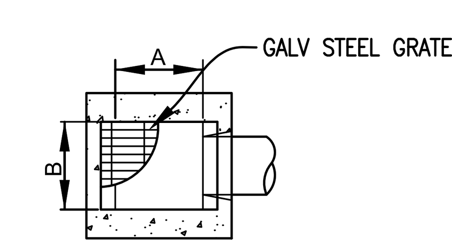
FRAME ANCHORING DETAIL



JOINT DETAIL

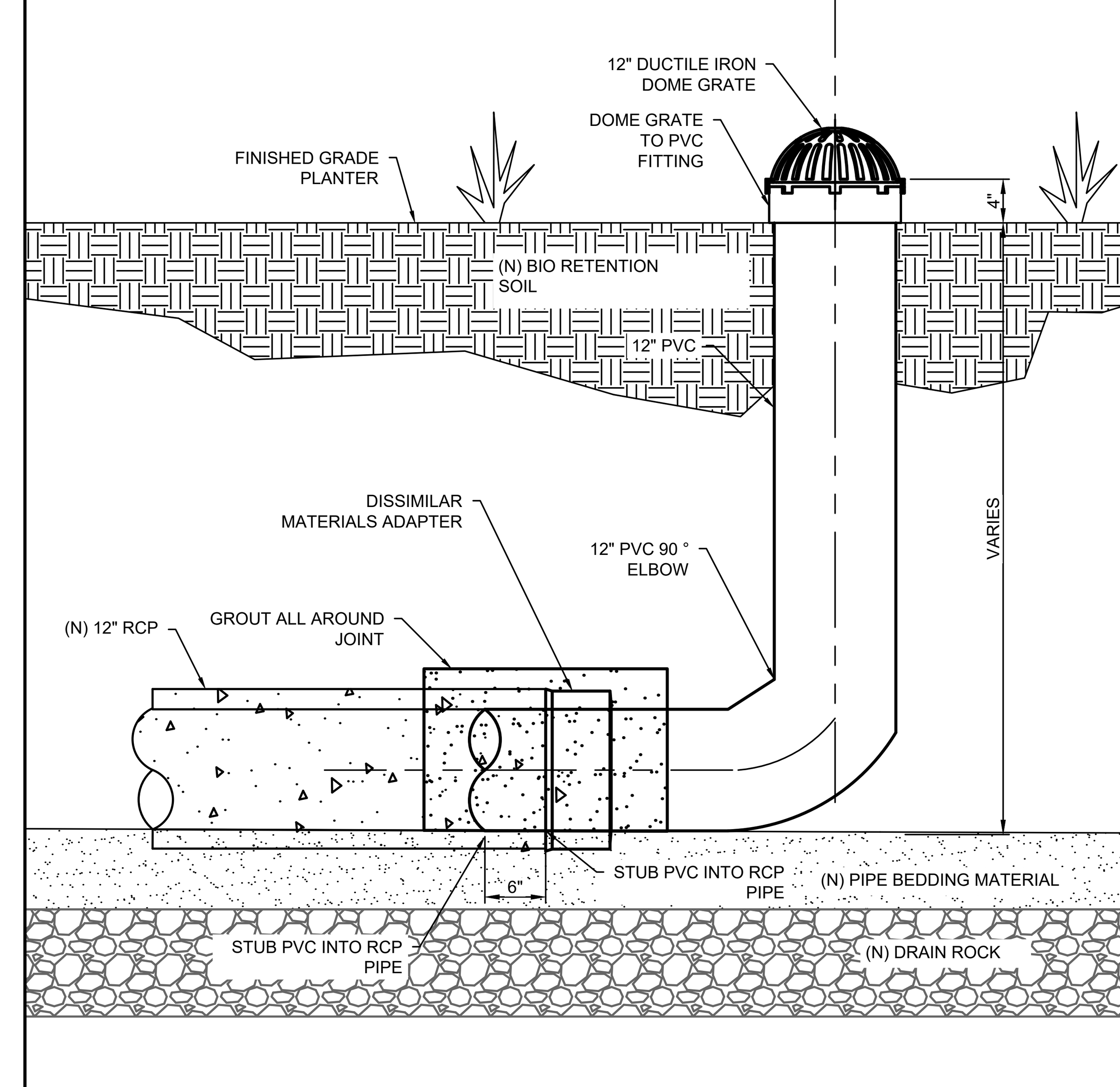


SECTION



PLAN

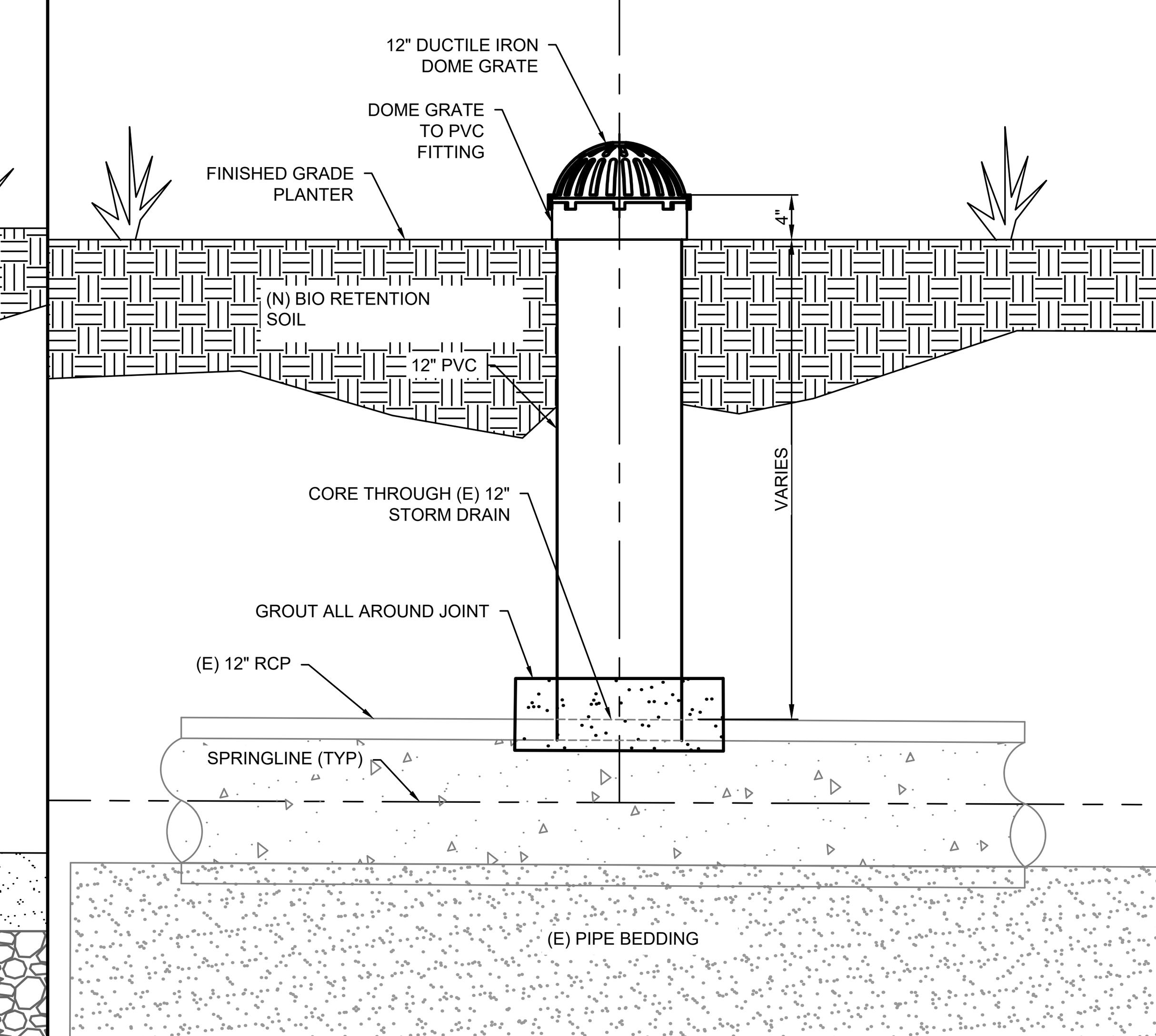
2 **PRECAST BASE SECTION FOR CURB INLET** NOT TO SCALE



ELEVATION

NOTES:
1. WRAP ALL AROUND JOINT NON WOVEN GEOTEXTILE FABRIC, ENCASE FABRIC IN GROUT AS SHOWN.
2. STUB 12" PVC MINIMUM OF 6" INTO THE NEW RCP PIPE AS SHOWN.
3. SEE SHEET C-505 DETAIL 5 FOR PLANTING DETAILS AND PLAN VIEW.

5 **LID INLET TO NEW STORM DRAIN PIPE CONNECTION** NOT TO SCALE



ELEVATION

NOTES:
1. SEE SHEET C-505 DETAIL 5 FOR PLANTING DETAILS AND PLAN VIEW.

6 **LID INLINE CONNECTION TO EXISTING RCP** NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER JEREMY M. SCHMAL No. C87192 Exp. 9/30/23 CIVIL STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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ISSUE			
MARK	DATE	DESCRIPTION	

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

UTILITY DETAILS - 5

PROJ NO:	11225278
DRWN: RB	CHKD: JS

U-505

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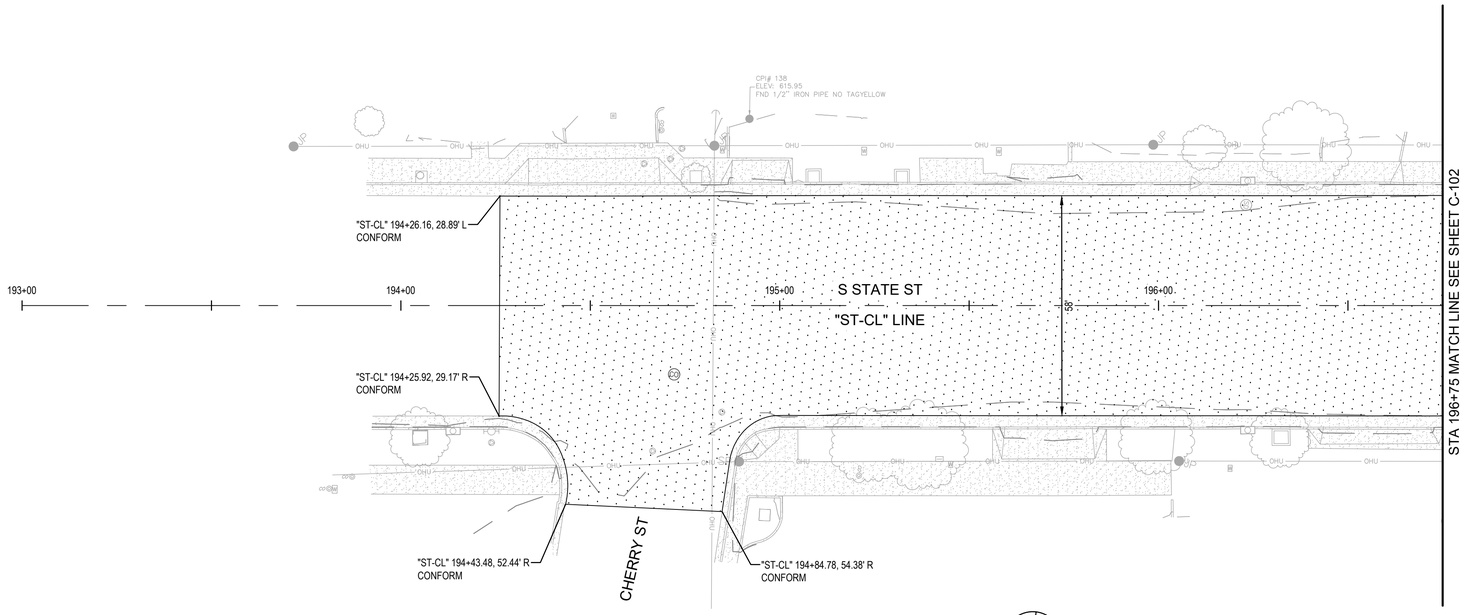
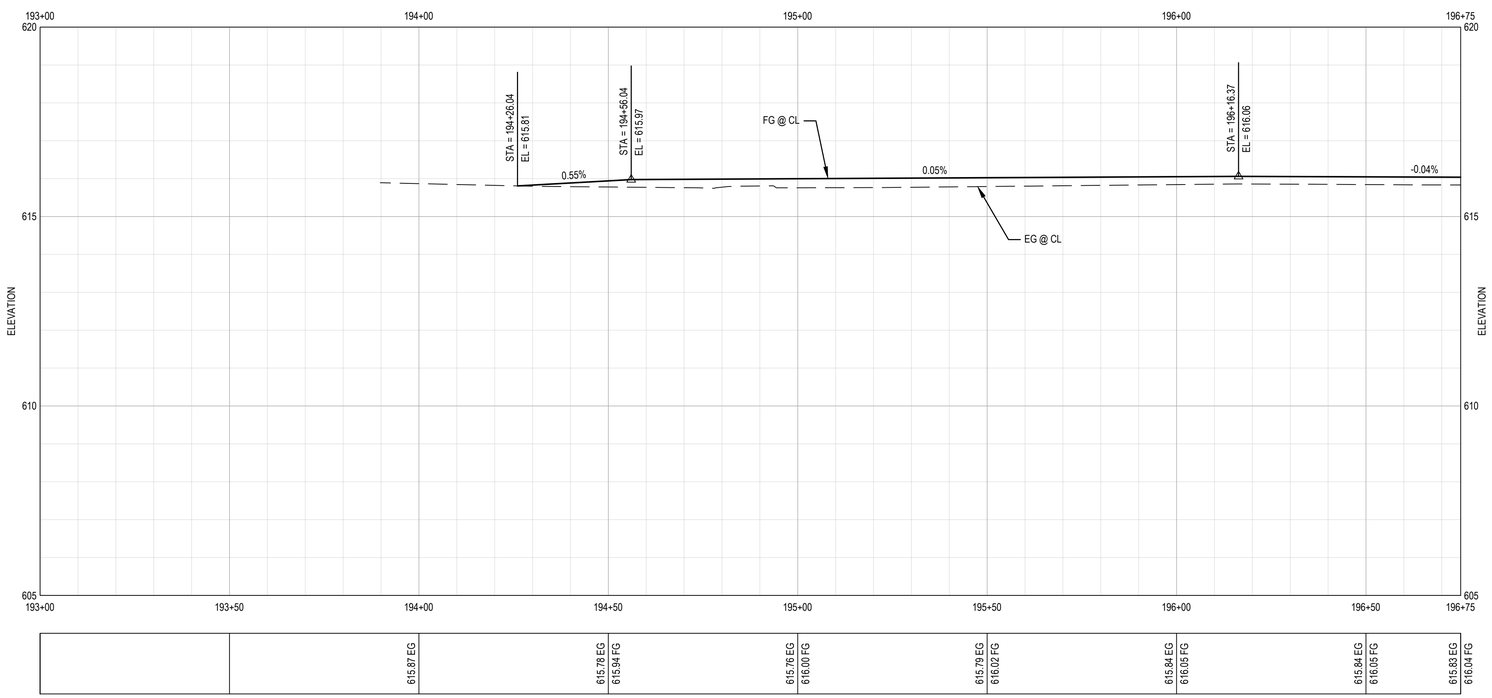


LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'



LAYOUT PROFILE - S STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL UNDERGROUND UTILITY WORK, CONCRETE WORK, SURFACE RESTORATION WORK, AND PERFORM ALL DIGOUT AND REPAIR WORK, SUCH AS PLACING LEVELING COURSE AND SEPARATION FABRIC, PRIOR TO FINAL HOT MIX PAVING.
2. APPLY TACK COAT TO ALL ADJACENT (E) AC IMPROVEMENTS OR CONCRETE SURFACES AND AT JOINT BETWEEN (E) AND (N) IMPROVEMENTS.
3. SEE SHEETS G-005 AND G-006 FOR TYPICAL SECTIONS.
4. SEE CONSTRUCTION DETAIL SHEETS C-401 TO C-412 FOR ROADWAY, SIDEWALK, DRIVEWAY AND CURB RAMP HORIZONTAL AND VERTICAL INFORMATION NOT SHOWN.

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM AVAILABLE RECORD MAPS, EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

SHEET LEGEND

- STRUCTURAL SECTION 0.5' HMA/1.25' CLASS II AB
- 0.20' HMA PAVEMENT OVERLAY
- 0.20'-0.30' HMA PAVEMENT VARIABLE OVERLAY
- UTILITY TRENCH RESTORATION, SEE DETAIL 5 ON SHEET C-503.
- MINOR CONCRETE SIDEWALK AND DRIVEWAY PER CITY STD 101/102. SEE LANDSCAPE PLANS FOR SCORE MARKS AND FINISHES.
- MINOR CONCRETE MEDIAN PAVING
- BIORETENTION AREA. SEE DETAILS ON SHEET C-502 AND LANDSCAPE PLANS FOR PLANTING, IRRIGATION, AND OTHER DETAILS
- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
- SEE LANDSCAPE PLANS

SHEET KEYNOTES

1. INSTALL CURB AND GUTTER PER MODIFIED CITY STANDARD 102 (102 / C-501)
2. INSTALL SIDEWALK PER CITY STANDARD 102. (102 / C-501)
3. INSTALL DRIVEWAY APPROACH. (4 / C-503)
4. INSTALL 8" MEDIAN CURB. (6 / C-503)
5. INSTALL CURB RAMP PER CITY STANDARD 111. (111 / C-501)
6. RESET STREET MONUMENT PER CITY STANDARD 140. (140 / C-501)
7. TREE AND TREE WELL. SEE LANDSCAPE PLANS FOR DETAILS.
8. PRESERVE AND ADJUST EXISTING STREET MONUMENT TO GRADE.
9. REPLACE UNDER SIDEWALK DRAIN IN KIND, WITH CIRCULAR OR RECTANGULAR TYPE DRAIN PER CITY STANDARD 410. ENSURE POSITIVE DRAINAGE TO THE GUTTER. (410 / C-501)
10. NOT USED.
11. RESTORE UTILITY TRENCH PAVEMENT. (5 / C-503)
12. INSTALL 6" VERTICAL CURB. (7 / C-503)

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STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE
S STATE ST STA. 193+00 - STA. 196+75

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-101

SHEET 29 OF 107

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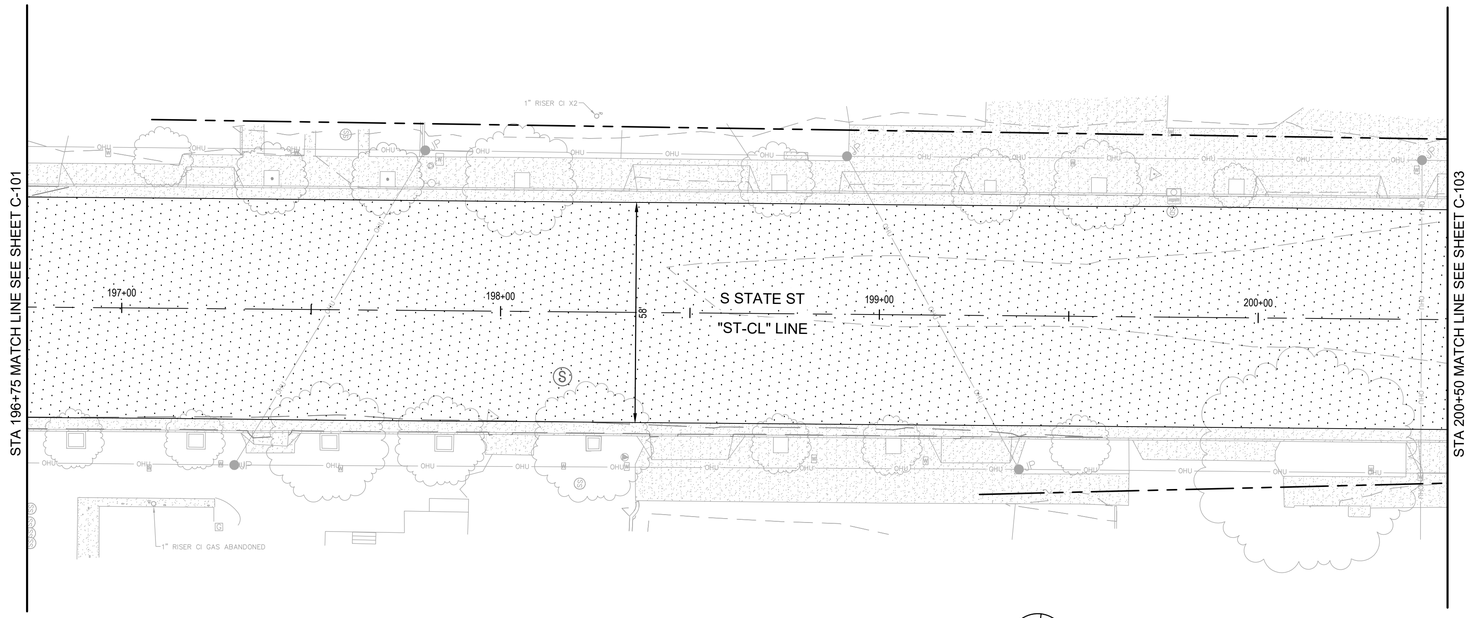
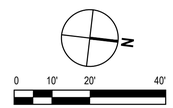
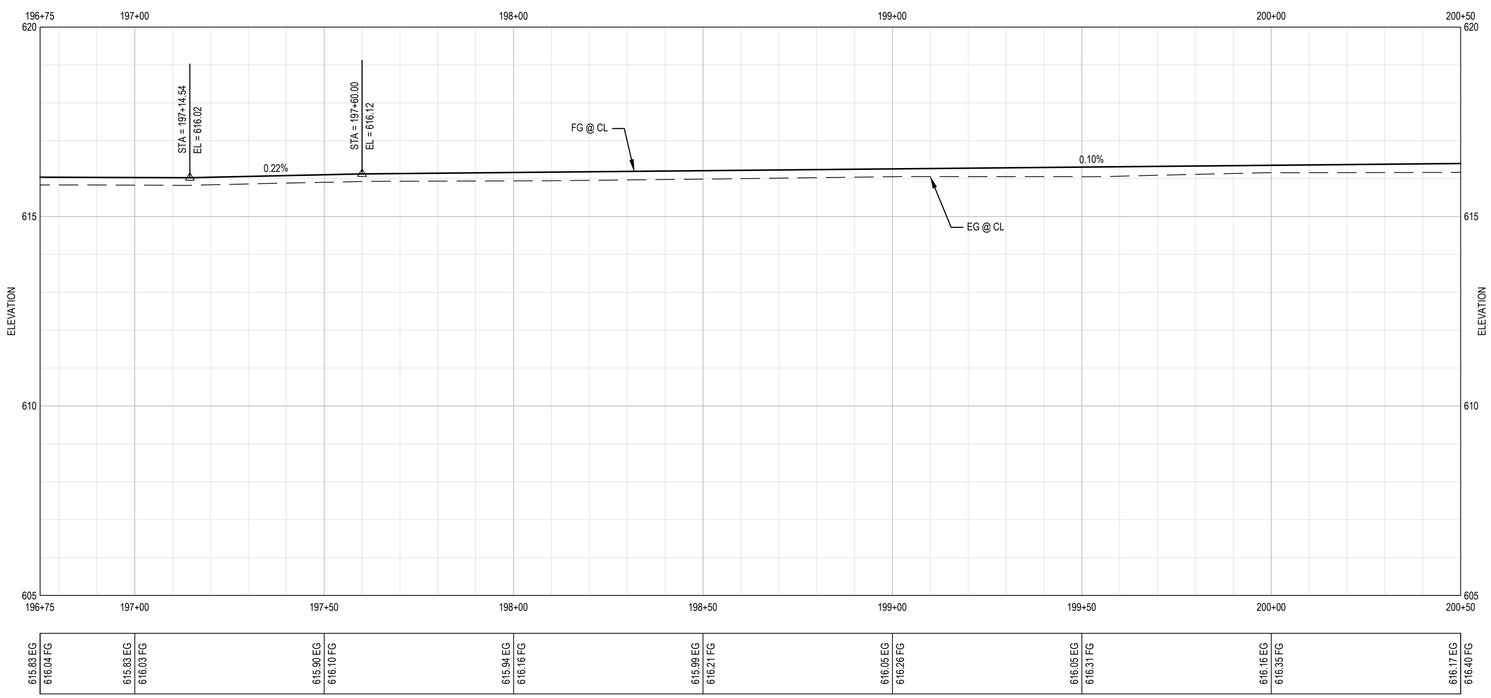


LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'





LAYOUT PROFILE - S STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL UNDERGROUND UTILITY WORK, CONCRETE WORK, SURFACE RESTORATION WORK, AND PERFORM ALL DIGOUT AND REPAIR WORK, SUCH AS PLACING LEVELING COURSE AND SEPARATION FABRIC, PRIOR TO FINAL HOT MIX PAVING.
2. APPLY TACK COAT TO ALL ADJACENT (E) AC IMPROVEMENTS OR CONCRETE SURFACES AND AT JOINT BETWEEN (E) AND (N) IMPROVEMENTS.
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- MINOR CONCRETE SIDEWALK AND DRIVEWAY PER CITY STD 101/102. SEE LANDSCAPE PLANS FOR SCORE MARKS AND FINISHES.
- MINOR CONCRETE MEDIAN PAVING
- BIORETENTION AREA. SEE DETAILS ON SHEET C-502 AND LANDSCAPE PLANS FOR PLANTING, IRRIGATION, AND OTHER DETAILS
- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
- SEE LANDSCAPE PLANS

SHEET KEYNOTES

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2. INSTALL SIDEWALK PER CITY STANDARD 102. (102 / C-501)
3. INSTALL DRIVEWAY APPROACH. (4 / C-503)
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5. INSTALL CURB RAMP PER CITY STANDARD 111. (111 / C-501)
6. RESET STREET MONUMENT PER CITY STANDARD 140. (140 / C-501)
7. TREE AND TREE WELL. SEE LANDSCAPE PLANS FOR DETAILS.
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10. NOT USED.
11. RESTORE UTILITY TRENCH PAVEMENT. (5 / C-503)
12. INSTALL 6" VERTICAL CURB. (7 / C-503)

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE S STATE ST STA. 196+75 - STA. 200+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-102

2023-02-22 5:31 PM RBELTRAN
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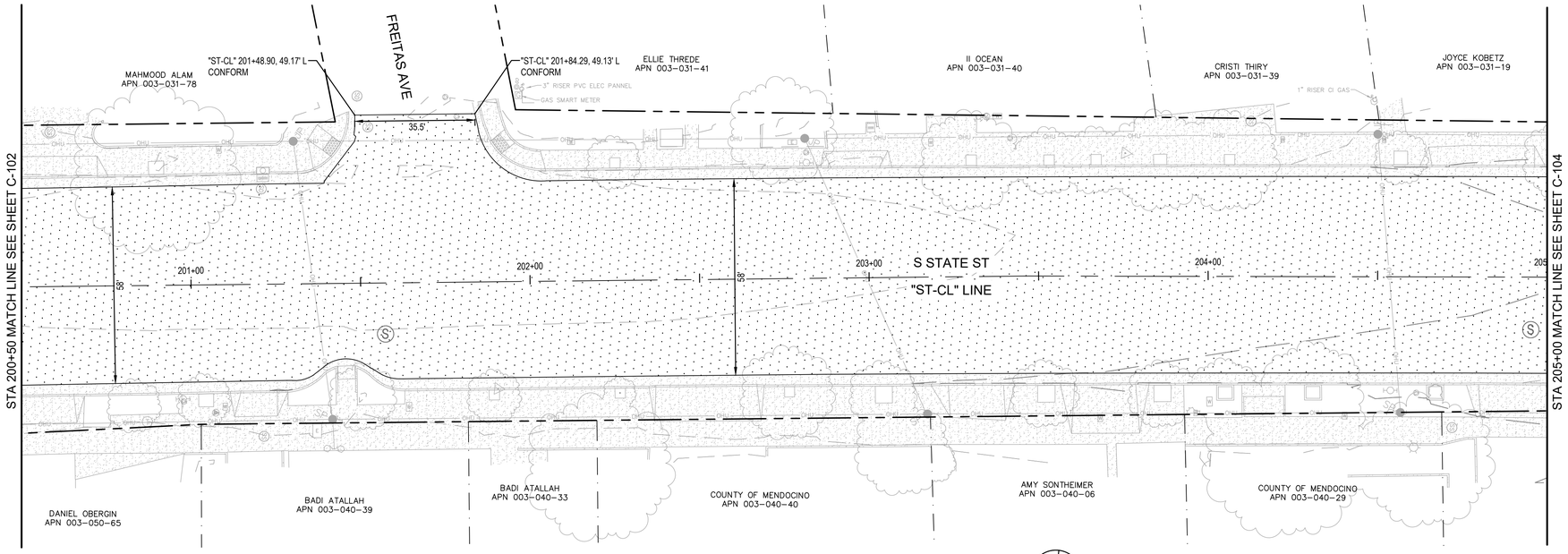
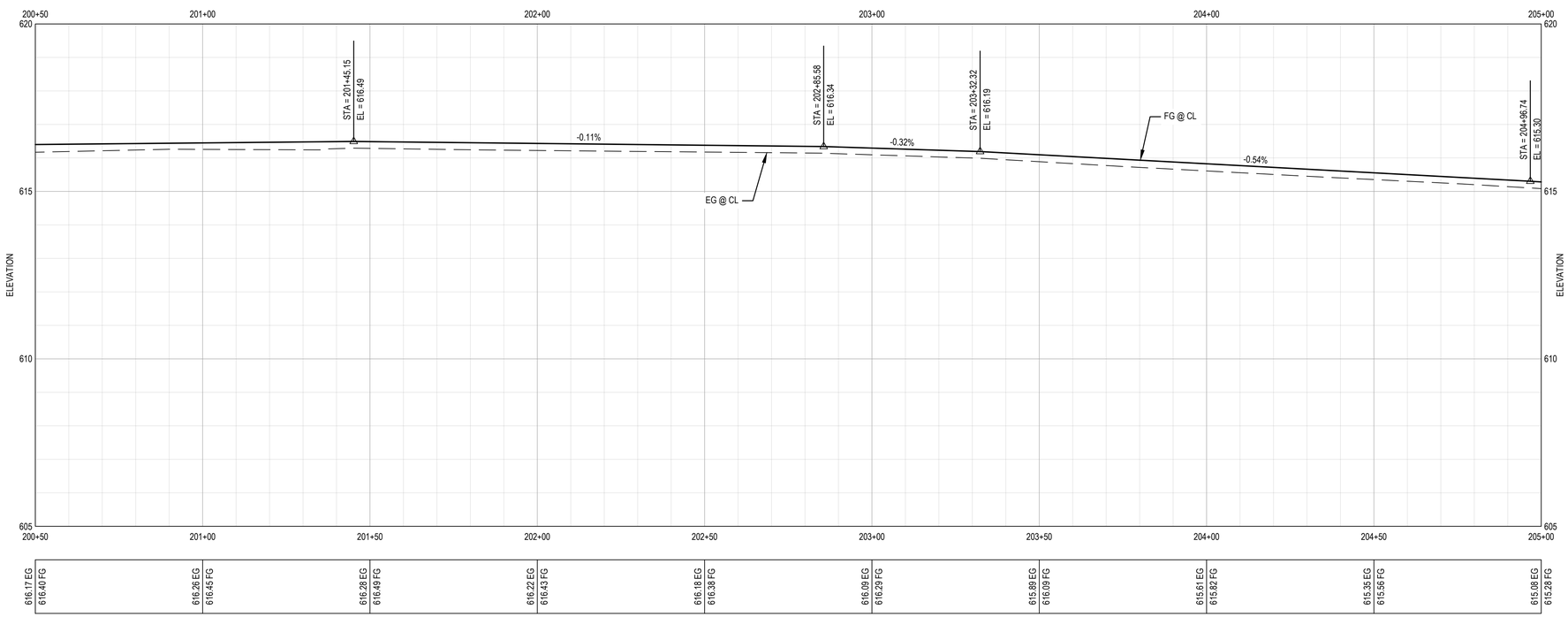


LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'

0 10' 20' 40'



LAYOUT PROFILE - S STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL UNDERGROUND UTILITY WORK, CONCRETE WORK, SURFACE RESTORATION WORK, AND PERFORM ALL DIGOUT AND REPAIR WORK, SUCH AS PLACING LEVELING COURSE AND SEPARATION FABRIC, PRIOR TO FINAL HOT MIX PAVING.
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- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
- SEE LANDSCAPE PLANS

SHEET KEYNOTES

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10. NOT USED.
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12. INSTALL 6" VERTICAL CURB. (7 / C-503)

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE S STATE ST STA. 200+50 - STA. 205+00

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-103

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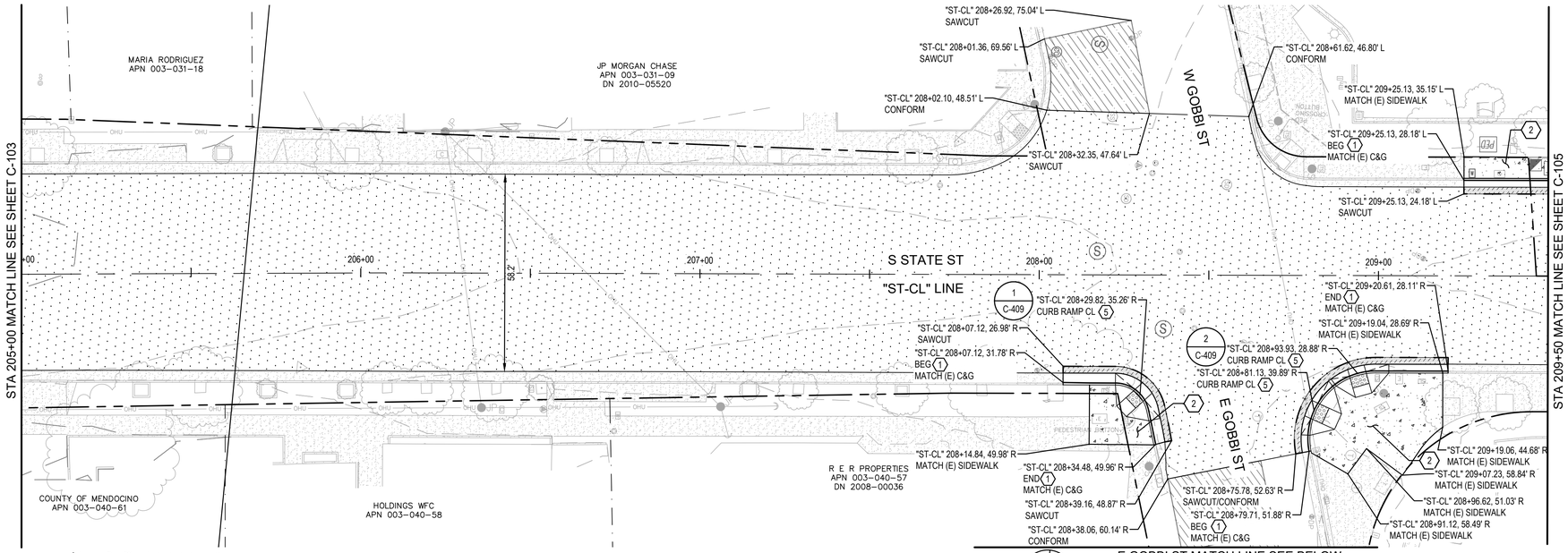
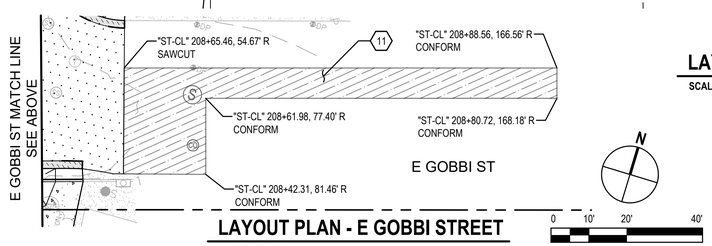


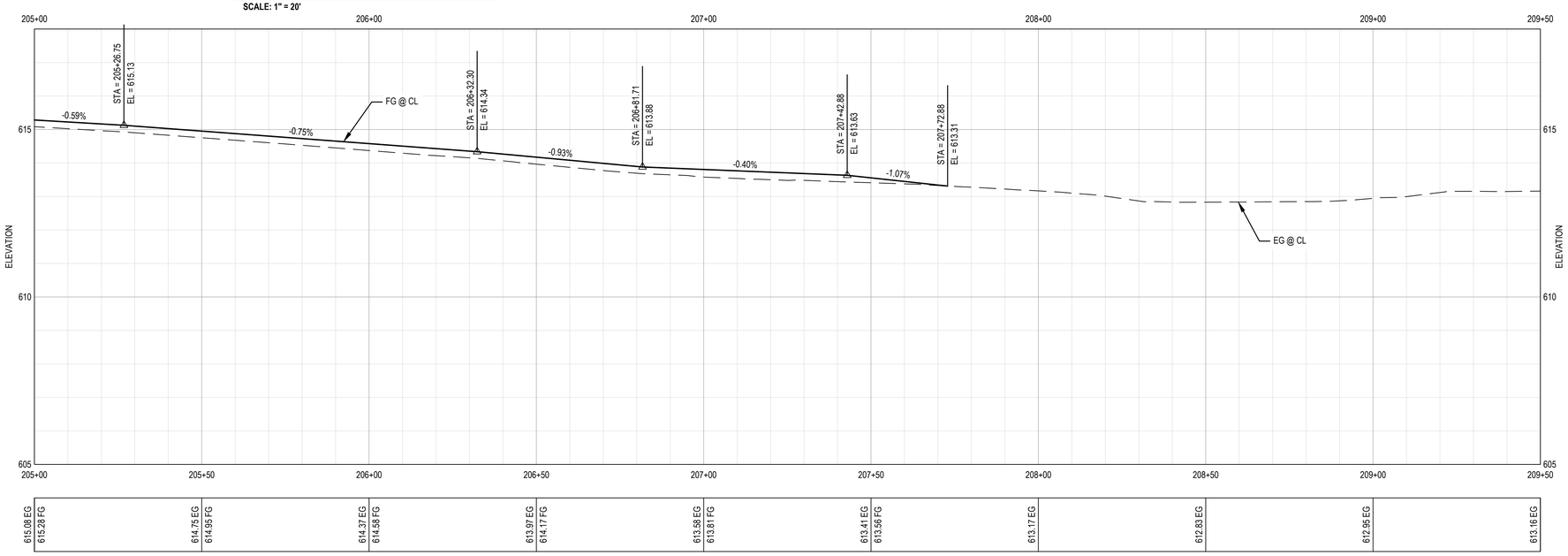
LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'



LAYOUT PLAN - E GOBBI STREET

SCALE: 1" = 20'



LAYOUT PROFILE - S STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

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- MINOR CONCRETE MEDIAN PAVING
- BIORETENTION AREA. SEE DETAILS ON SHEET C-502 AND LANDSCAPE PLANS FOR PLANTING, IRRIGATION, AND OTHER DETAILS
- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
- SEE LANDSCAPE PLANS

SHEET KEYNOTES

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4. INSTALL 8" MEDIAN CURB. (6/C-503)
5. INSTALL CURB RAMP PER CITY STANDARD 111. (111/C-501)
6. RESET STREET MONUMENT PER CITY STANDARD 140. (140/C-501)
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0 1"

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LAYOUT PLAN & PROFILE S STATE ST STA. 205+00 - STA. 209+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-104

SHEET 32 OF 107

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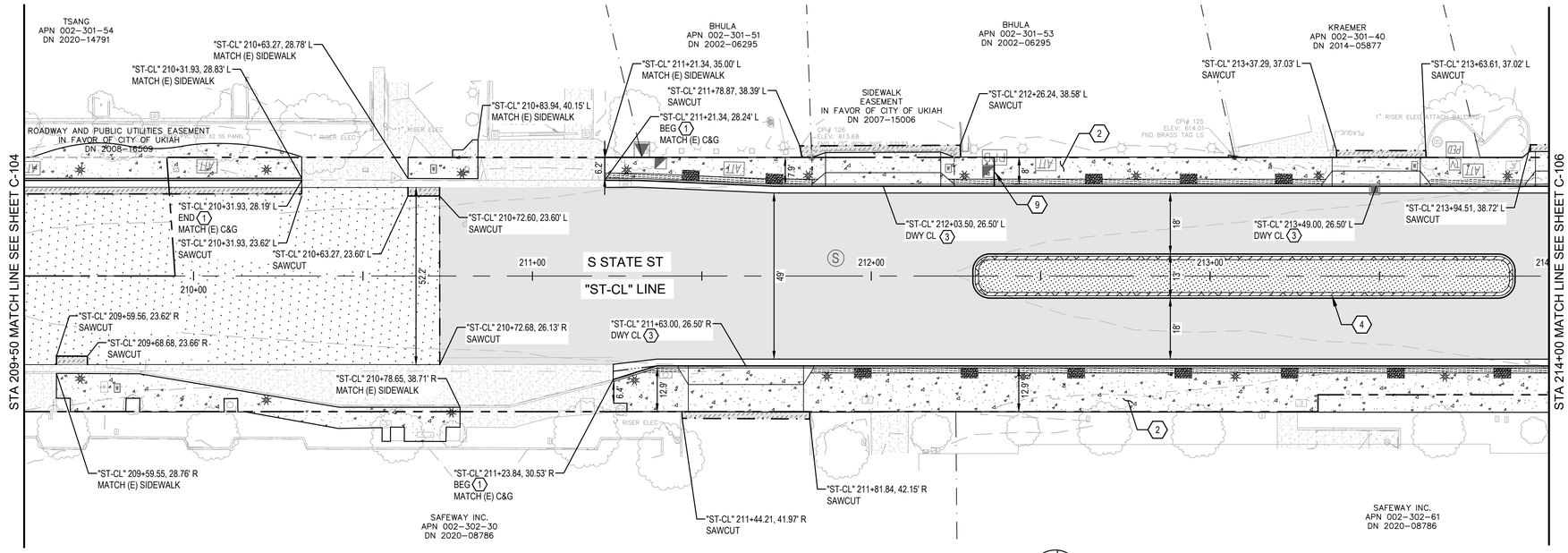
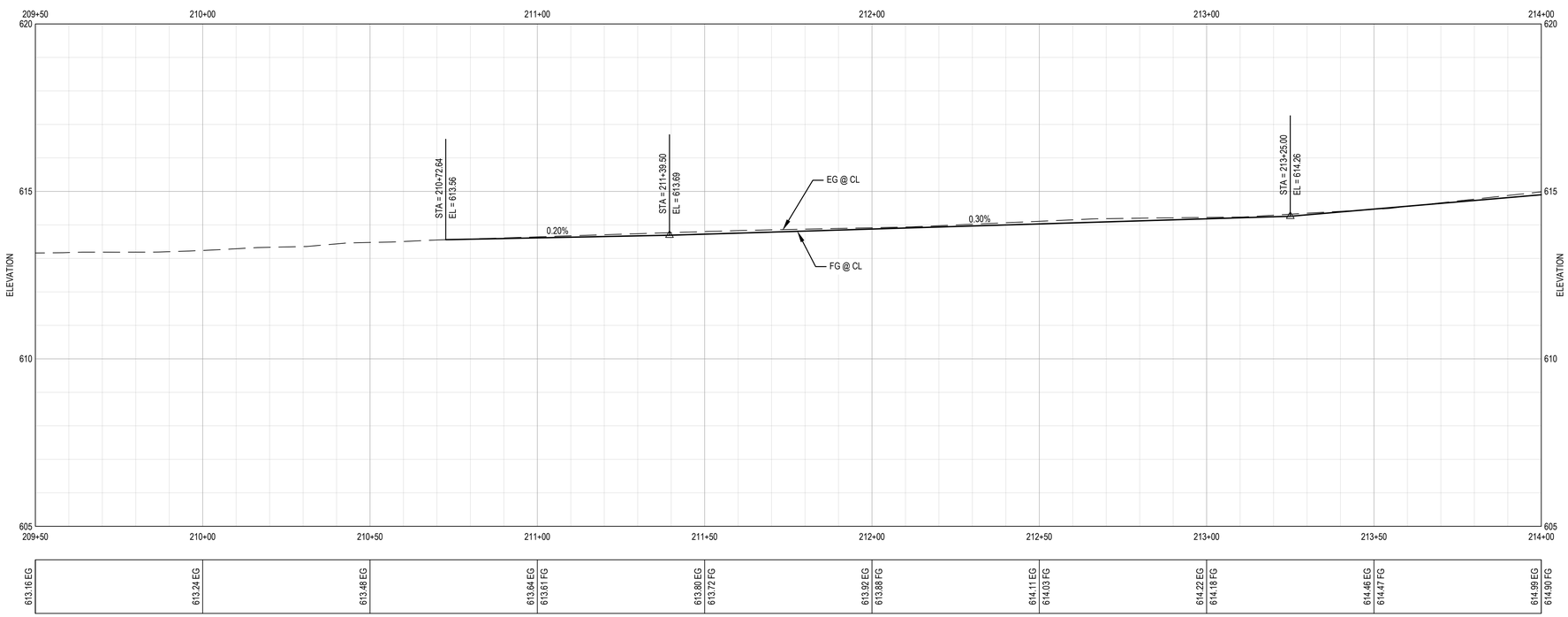


LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'



LAYOUT PROFILE - S STATE STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL UNDERGROUND UTILITY WORK, CONCRETE WORK, SURFACE RESTORATION WORK, AND PERFORM ALL DIGOUT AND REPAIR WORK, SUCH AS PLACING LEVELING COURSE AND SEPARATION FABRIC, PRIOR TO FINAL HOT MIX PAVING.
2. APPLY TACK COAT TO ALL ADJACENT (E) AC IMPROVEMENTS OR CONCRETE SURFACES AND AT JOINT BETWEEN (E) AND (N) IMPROVEMENTS.
3. SEE SHEETS G-005 AND G-006 FOR TYPICAL SECTIONS.
4. SEE CONSTRUCTION DETAIL SHEETS C-401 TO C-412 FOR ROADWAY, SIDEWALK, DRIVEWAY AND CURB RAMP HORIZONTAL AND VERTICAL INFORMATION NOT SHOWN.

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SHEET LEGEND

- STRUCTURAL SECTION 0.5' HMA/1.25' CLASS II AB
- 0.20' HMA PAVEMENT OVERLAY
- 0.20'-0.30' HMA PAVEMENT VARIABLE OVERLAY
- UTILITY TRENCH RESTORATION, SEE DETAIL 5 ON SHEET C-503.
- MINOR CONCRETE SIDEWALK AND DRIVEWAY PER CITY STD 101/102. SEE LANDSCAPE PLANS FOR SCORE MARKS AND FINISHES.
- MINOR CONCRETE MEDIAN PAVING
- BIORETENTION AREA. SEE DETAILS ON SHEET C-502 AND LANDSCAPE PLANS FOR PLANTING, IRRIGATION, AND OTHER DETAILS
- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
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SHEET KEYNOTES

1. INSTALL CURB AND GUTTER PER MODIFIED CITY STANDARD 102 (102 / C-501)
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3. INSTALL DRIVEWAY APPROACH. (4 / C-503)
4. INSTALL 8" MEDIAN CURB. (6 / C-503)
5. INSTALL CURB RAMP PER CITY STANDARD 111. (111 / C-501)
6. RESET STREET MONUMENT PER CITY STANDARD 140. (140 / C-501)
7. TREE AND TREE WELL. SEE LANDSCAPE PLANS FOR DETAILS.
8. PRESERVE AND ADJUST EXISTING STREET MONUMENT TO GRADE.
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10. NOT USED.
11. RESTORE UTILITY TRENCH PAVEMENT. (5 / C-503)
12. INSTALL 6" VERTICAL CURB. (7 / C-503)

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE
S STATE ST STA. 209+50 - STA. 214+00

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-105

SHEET 33 OF 107

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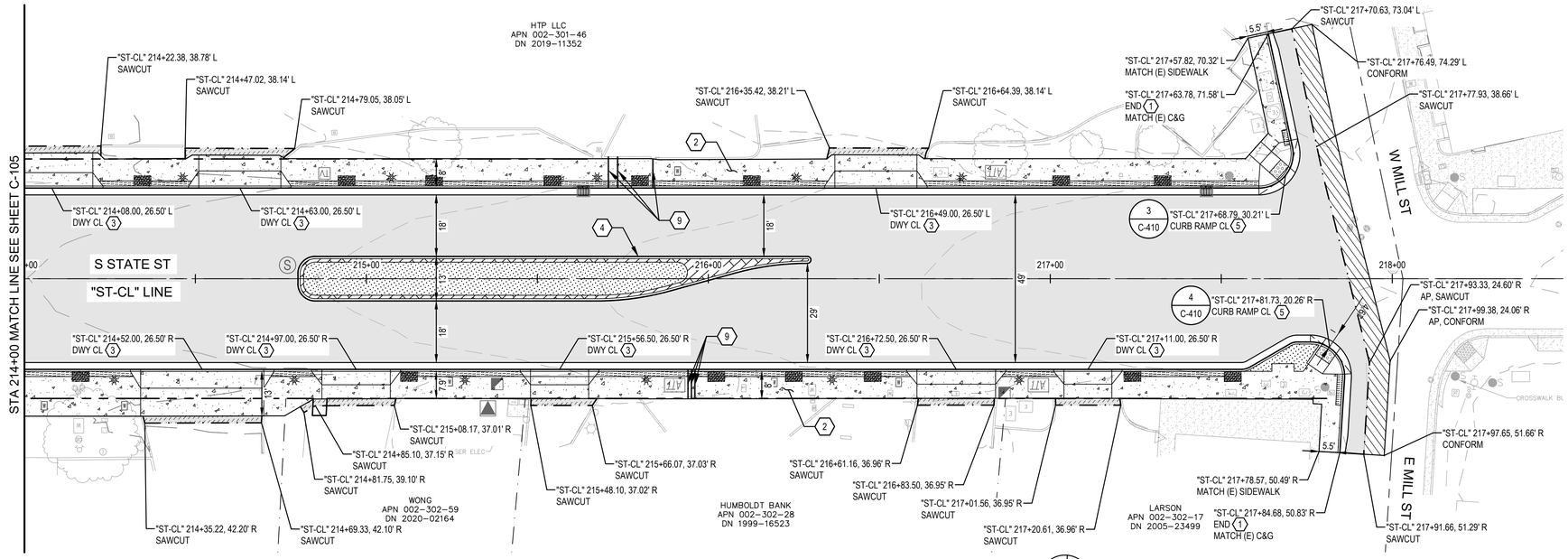
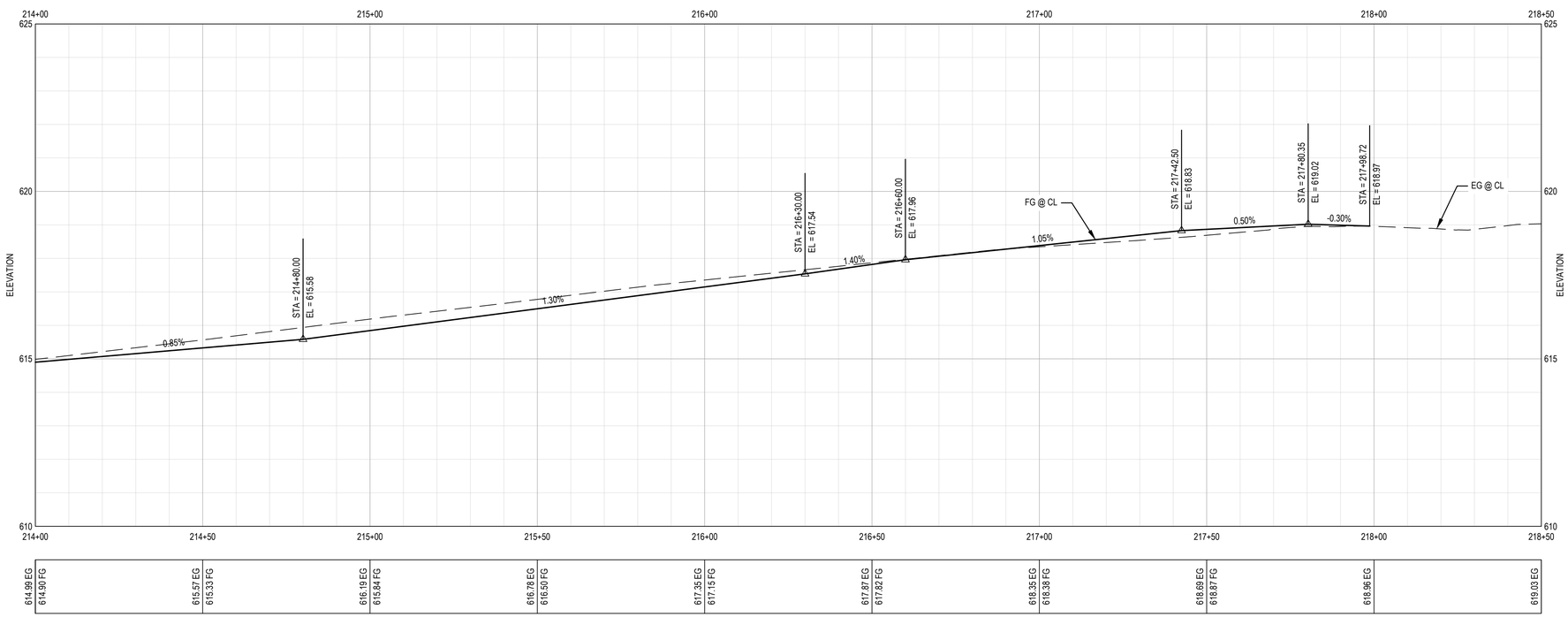


LAYOUT PLAN - S STATE STREET

SCALE: 1" = 20'



LAYOUT PROFILE - S STATE STREET

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SHEET KEYNOTES

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S STATE ST STA. 214+00 - STA. 218+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

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SHEET 34 OF 107

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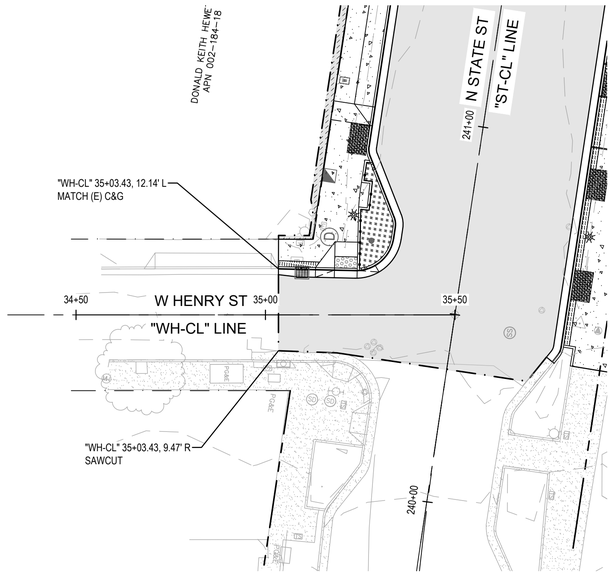
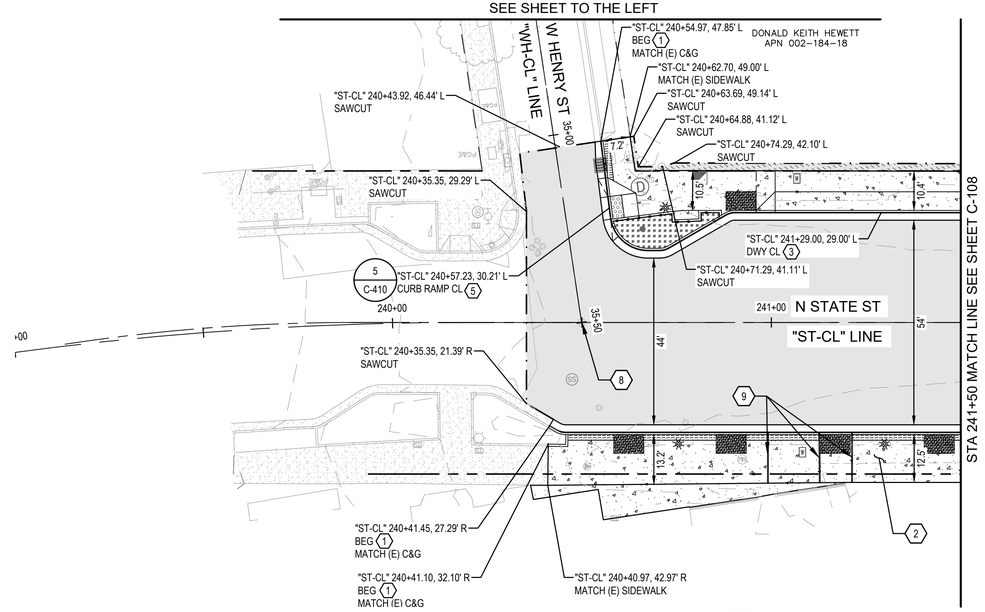


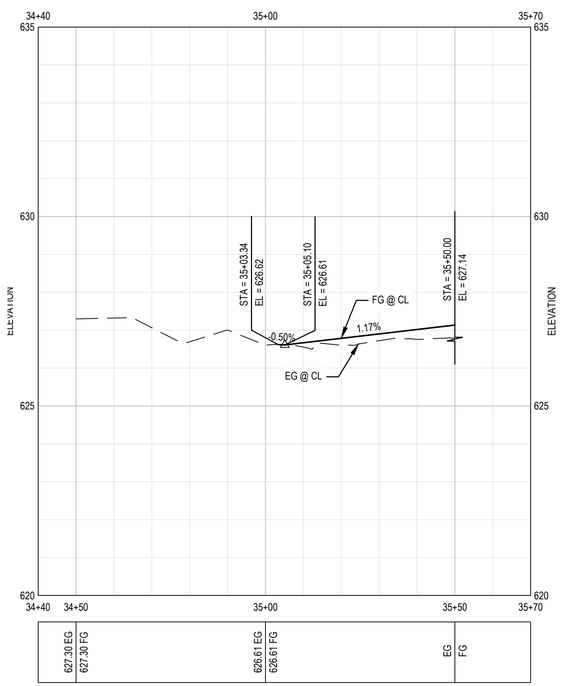
LAYOUT PLAN - W HENRY STREET

SCALE: 1" = 20'



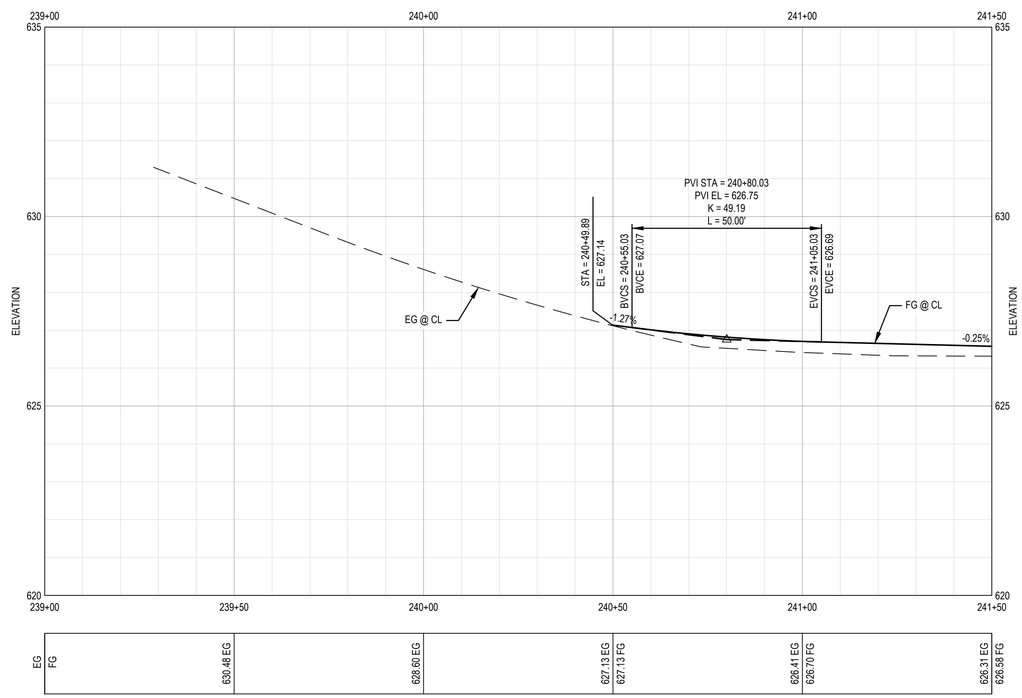
LAYOUT PLAN - N STATE STREET

SCALE: 1" = 20'



LAYOUT PROFILE - W HENRY STREET

SCALE: HORIZ 1"=20', VERT 1"=2'



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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE
N STATE ST STA. 237+50 - STA. 241+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-107

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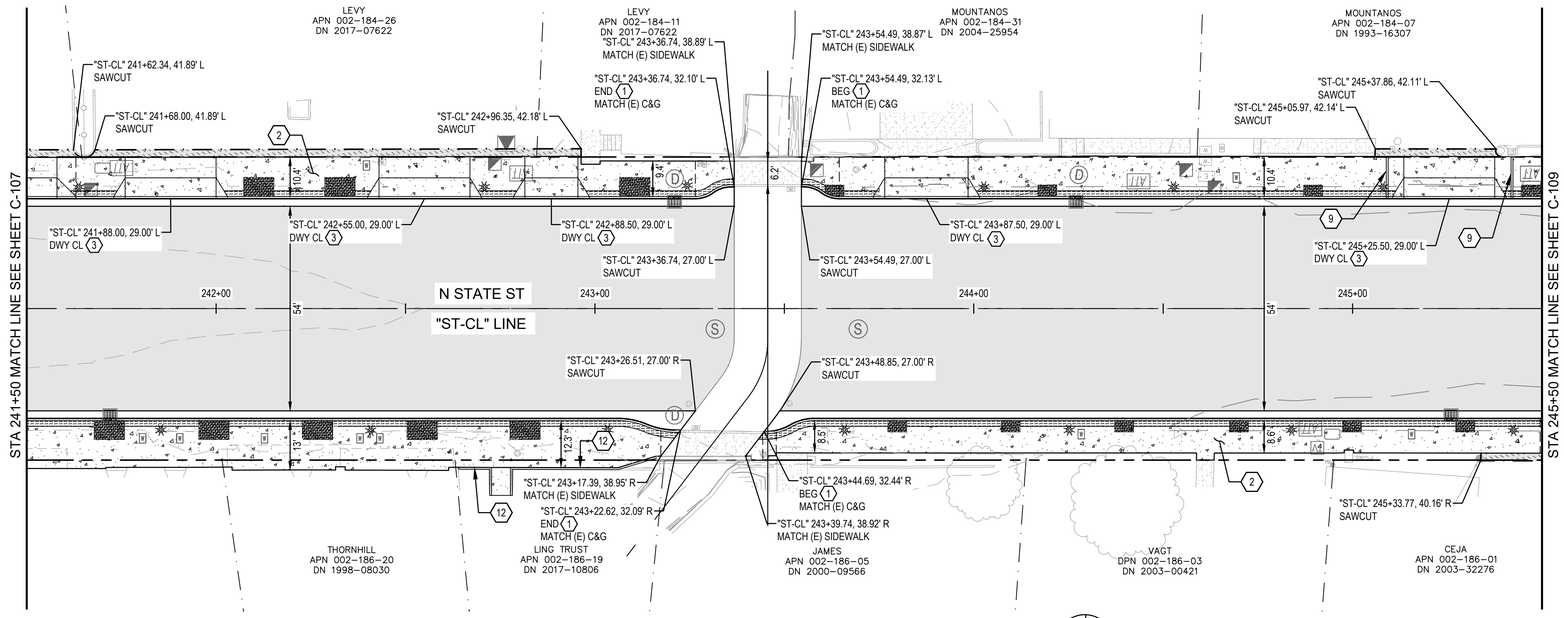
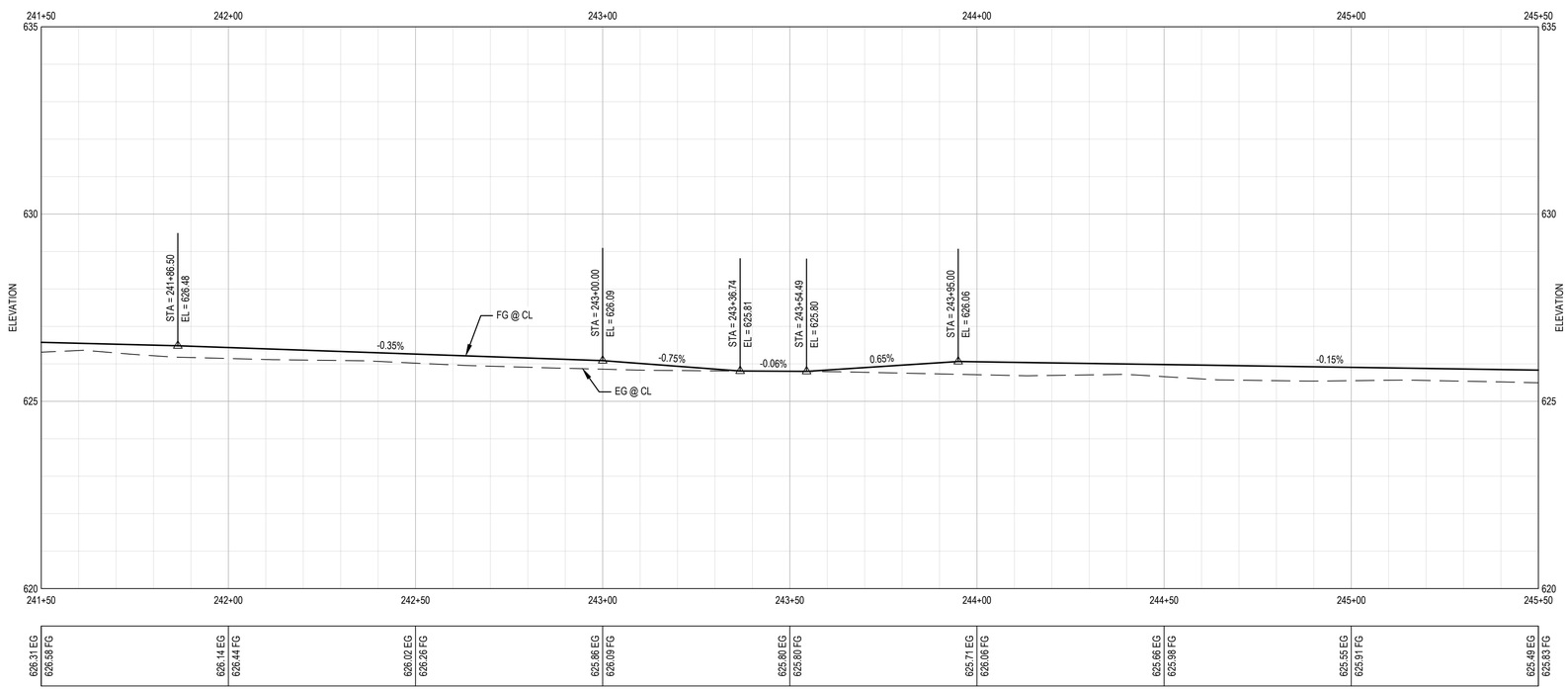


LAYOUT PLAN - N STATE STREET

SCALE: 1" = 20'



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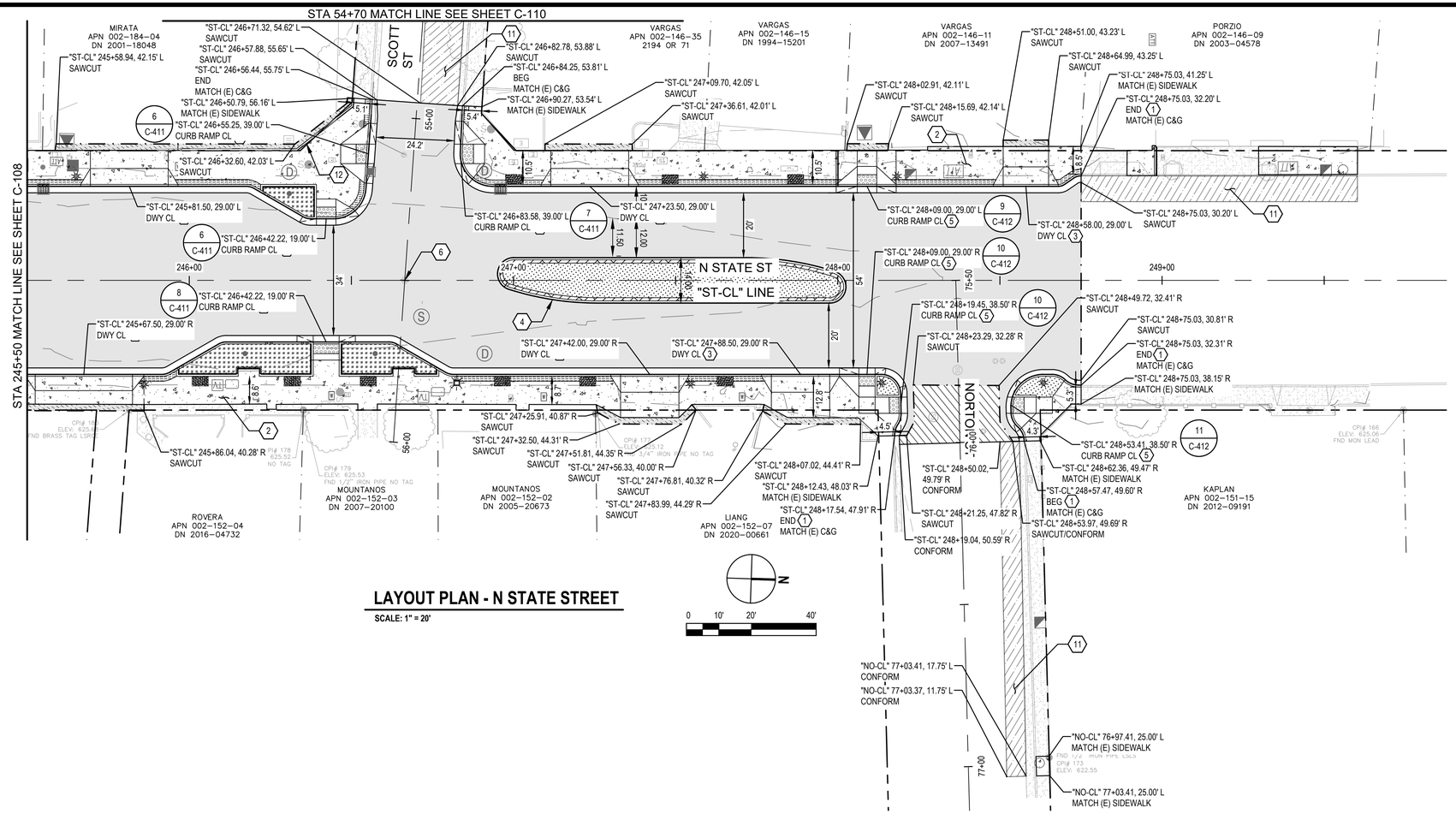
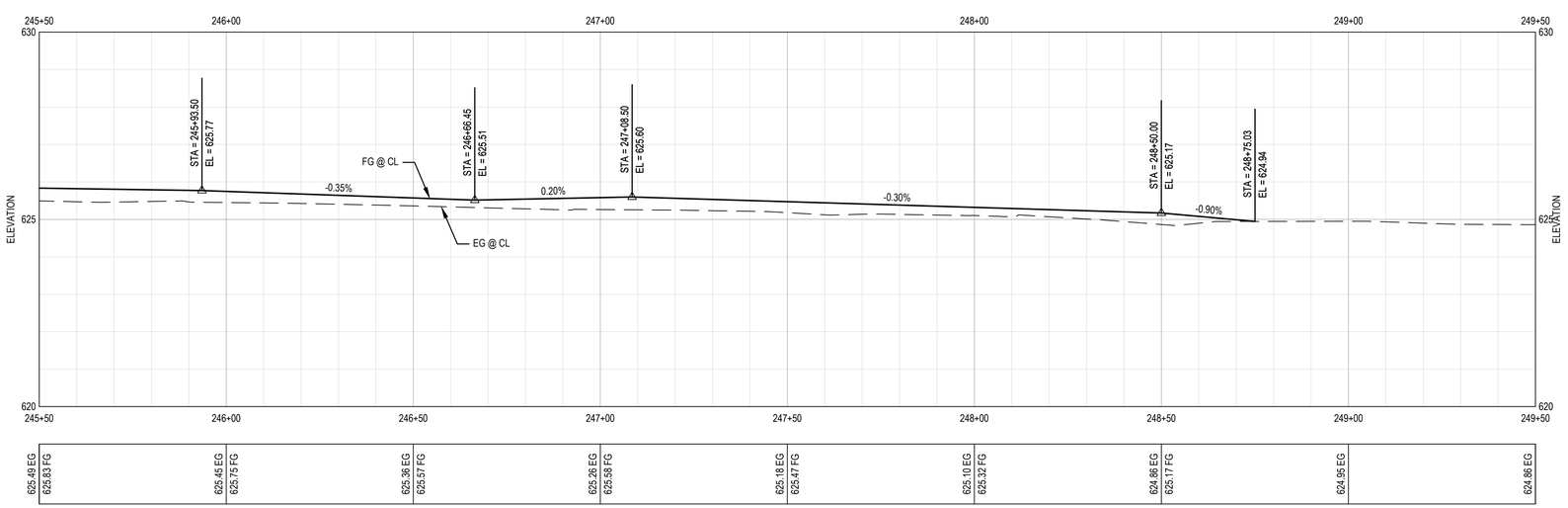


LAYOUT PLAN - N STATE STREET

SCALE: 1" = 20'



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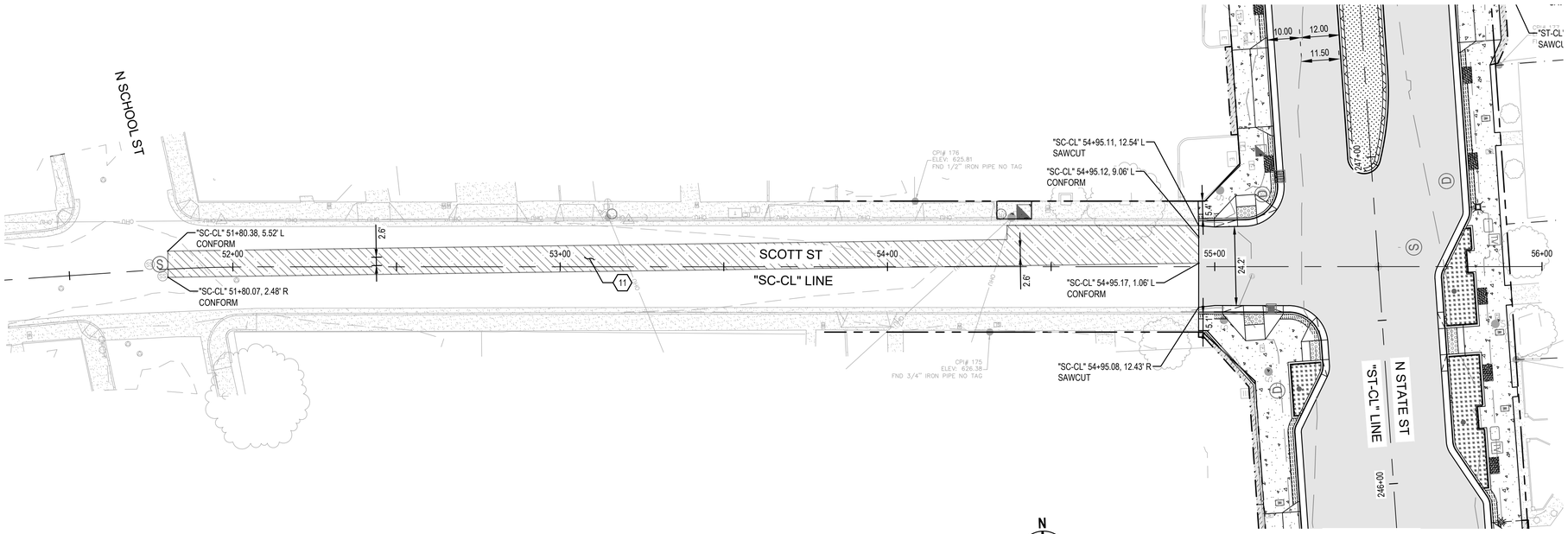
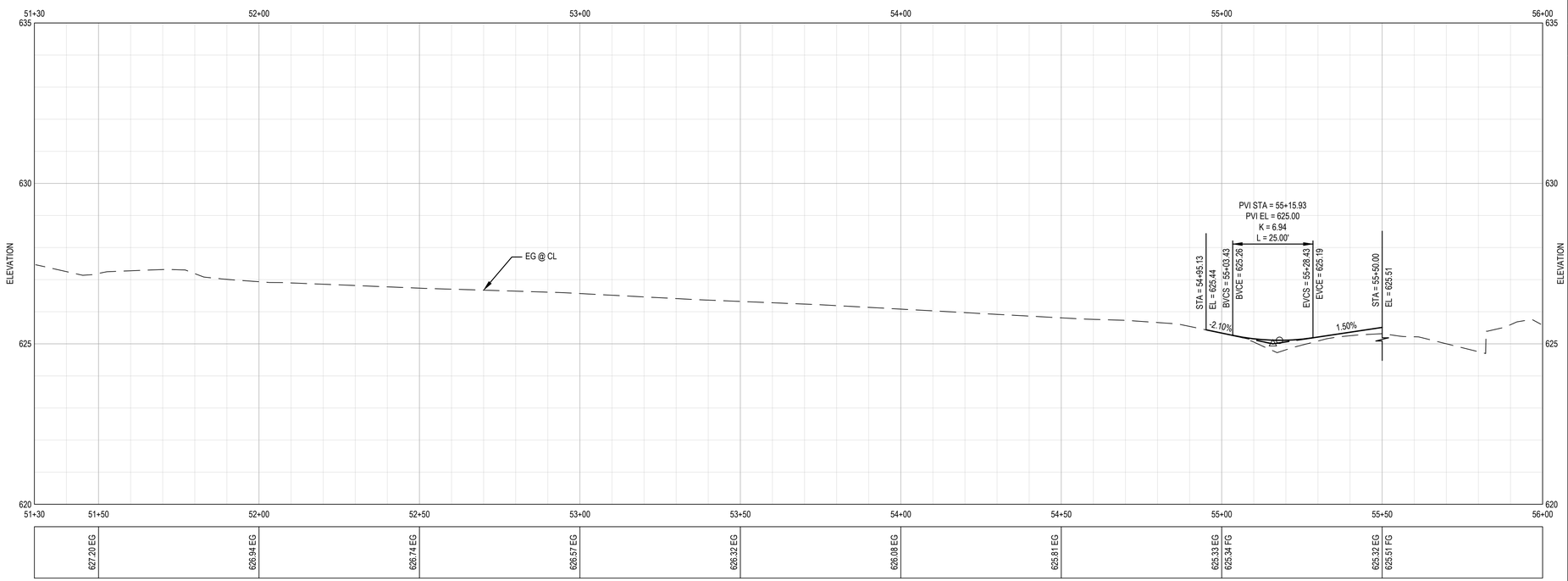


LAYOUT PLAN - SCOTT STREET

SCALE: 1" = 20'

N

0 10' 20' 40'



LAYOUT PROFILE - SCOTT STREET

SCALE: HORIZ 1"=20', VERT 1"=2'

SHEET GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL UNDERGROUND UTILITY WORK, CONCRETE WORK, SURFACE RESTORATION WORK, AND PERFORM ALL DIGOUT AND REPAIR WORK, SUCH AS PLACING LEVELING COURSE AND SEPARATION FABRIC, PRIOR TO FINAL HOT MIX PAVING.
2. APPLY TACK COAT TO ALL ADJACENT (E) AC IMPROVEMENTS OR CONCRETE SURFACES AND AT JOINT BETWEEN (E) AND (N) IMPROVEMENTS.
3. SEE SHEETS G-005 AND G-006 FOR TYPICAL SECTIONS.
4. SEE CONSTRUCTION DETAIL SHEETS C-401 TO C-412 FOR ROADWAY, SIDEWALK, DRIVEWAY AND CURB RAMP HORIZONTAL AND VERTICAL INFORMATION NOT SHOWN.

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM AVAILABLE RECORD MAPS, EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

SHEET LEGEND

- STRUCTURAL SECTION 0.5' HMA/1.25' CLASS II AB
- 0.20' HMA PAVEMENT OVERLAY
- 0.20'-0.30' HMA PAVEMENT VARIABLE OVERLAY
- UTILITY TRENCH RESTORATION, SEE DETAIL 5 ON SHEET C-503.
- MINOR CONCRETE SIDEWALK AND DRIVEWAY PER CITY STD 101/102. SEE LANDSCAPE PLANS FOR SCORE MARKS AND FINISHES.
- MINOR CONCRETE MEDIAN PAVING
- BIORETENTION AREA. SEE DETAILS ON SHEET C-502 AND LANDSCAPE PLANS FOR PLANTING, IRRIGATION, AND OTHER DETAILS
- 4" HMA PLUG OR MATCH (E) THICKNESS, WHICHEVER IS GREATER, ALLOW FOR FINAL LIFT THICKNESS
- SEE LANDSCAPE PLANS

SHEET KEYNOTES

1. INSTALL CURB AND GUTTER PER MODIFIED CITY STANDARD 102 (102 / C-501)
2. INSTALL SIDEWALK PER CITY STANDARD 102. (102 / C-501)
3. INSTALL DRIVEWAY APPROACH. (4 / C-503)
4. INSTALL 8" MEDIAN CURB. (6 / C-503)
5. INSTALL CURB RAMP PER CITY STANDARD 111. (111 / C-501)
6. RESET STREET MONUMENT PER CITY STANDARD 140. (140 / C-501)
7. TREE AND TREE WELL. SEE LANDSCAPE PLANS FOR DETAILS.
8. PRESERVE AND ADJUST EXISTING STREET MONUMENT TO GRADE.
9. REPLACE UNDER SIDEWALK DRAIN IN KIND, WITH CIRCULAR OR RECTANGULAR TYPE DRAIN PER CITY STANDARD 410. ENSURE POSITIVE DRAINAGE TO THE GUTTER. (410 / C-501)
10. NOT USED.
11. RESTORE UTILITY TRENCH PAVEMENT. (5 / C-503)
12. INSTALL 6" VERTICAL CURB. (7 / C-503)

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

LAYOUT PLAN & PROFILE
SCOTT ST STA. 51+30 - STA. 55+50

PROJ NO: 11225278
DRWN: AJP CHKD: JS

C-110

SHEET 38 OF 107

2023-02-22 5:35 PM RBELTRAN
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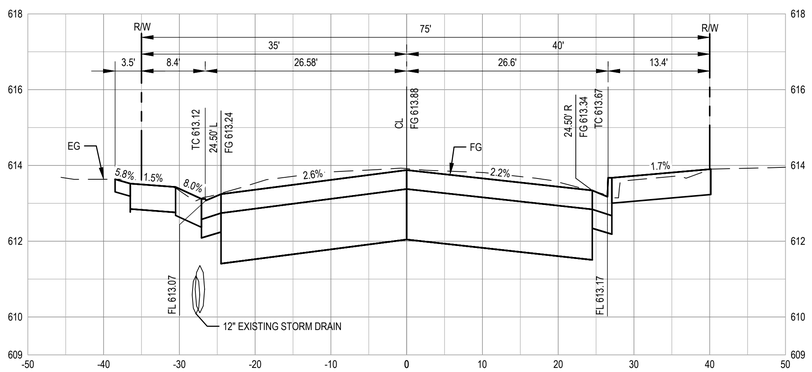
STATION 212+00



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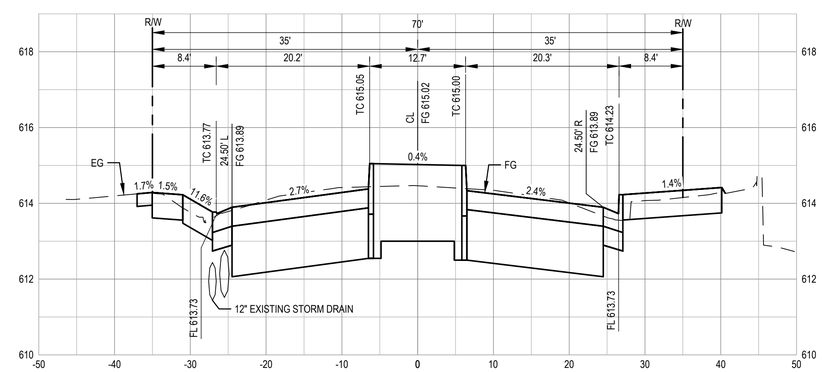

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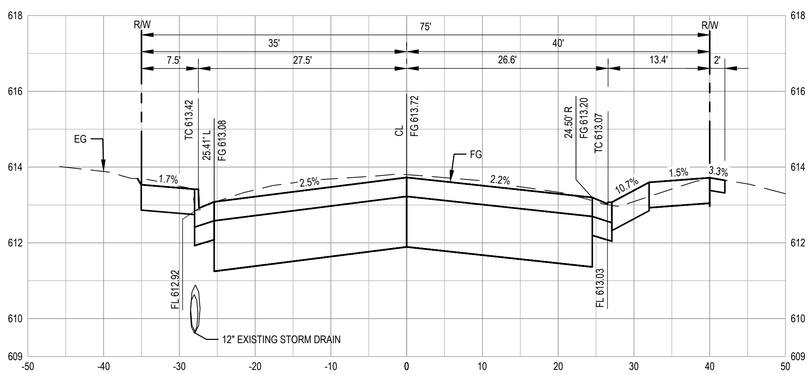

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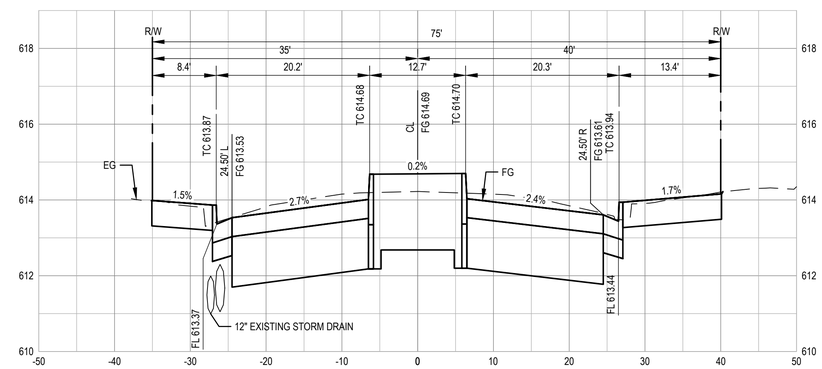

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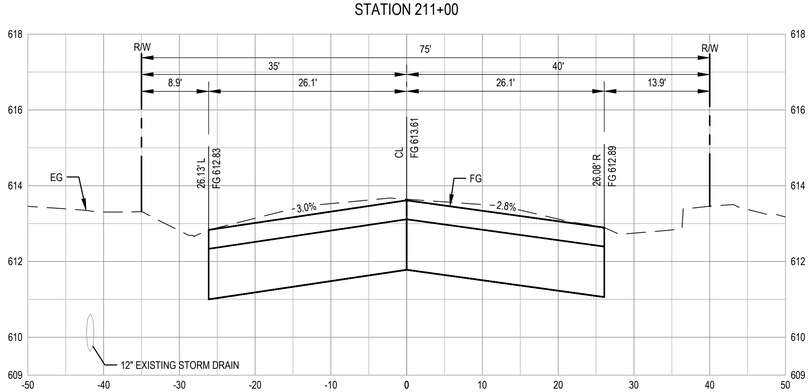

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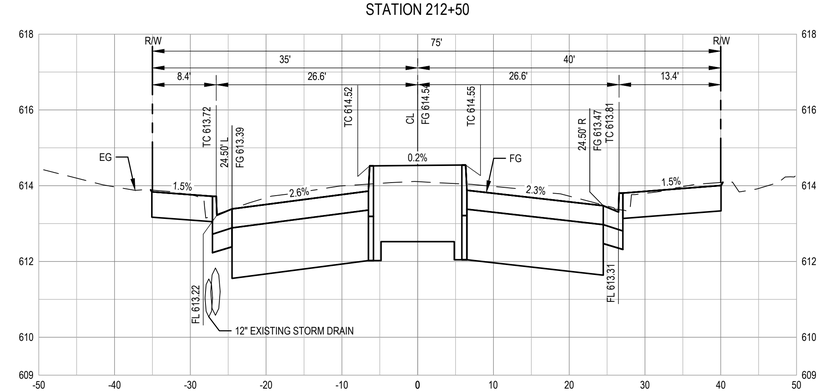

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V: 1" = 2' 0 2' 4'

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS STA. 211+00 - STA. 213+50

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-301

SHEET 39 OF 107

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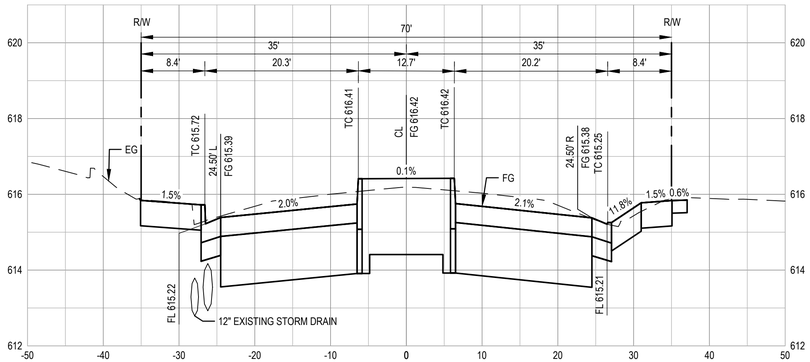
STATION 215+00



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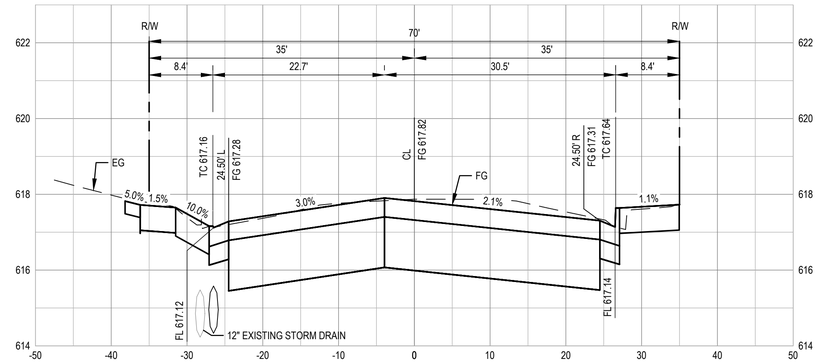

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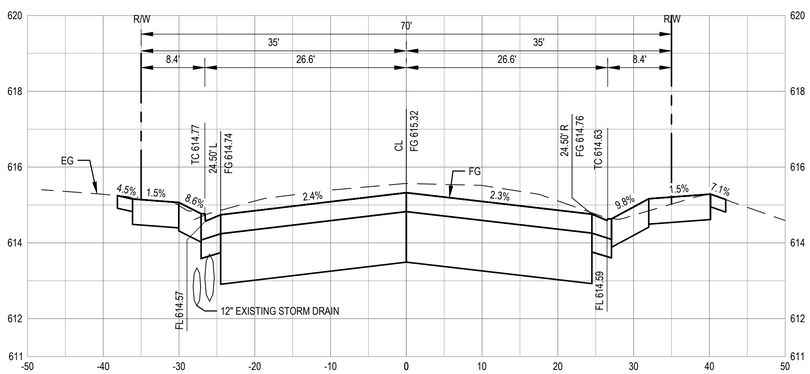

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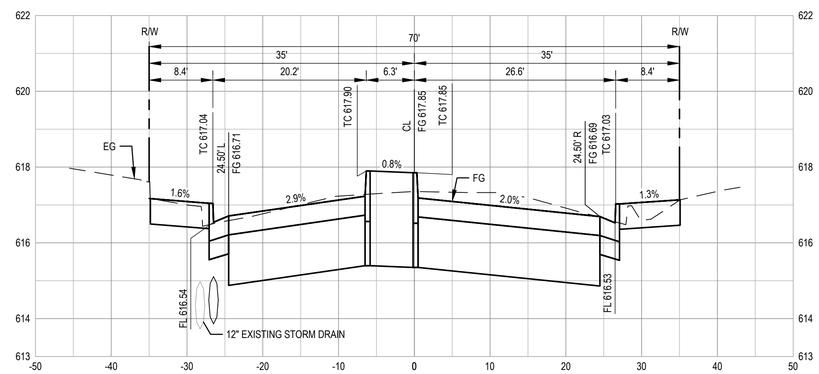

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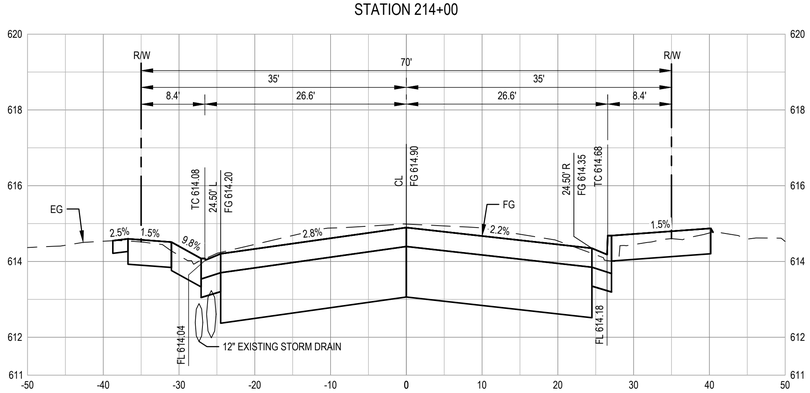

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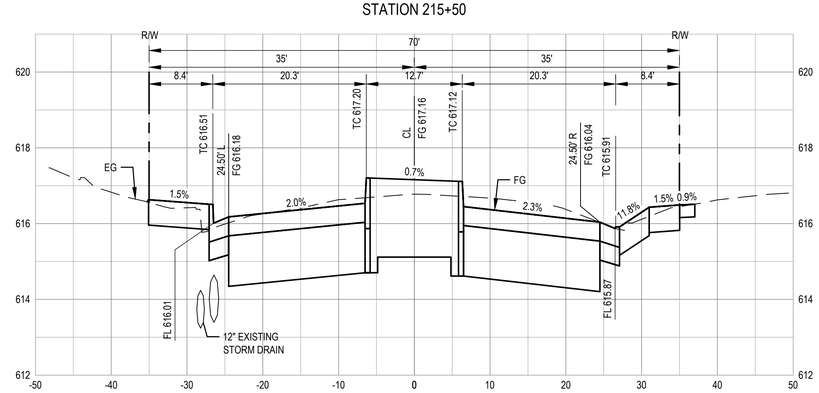

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS STA 214+00 - STA 216+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-302

SHEET 40 OF 107

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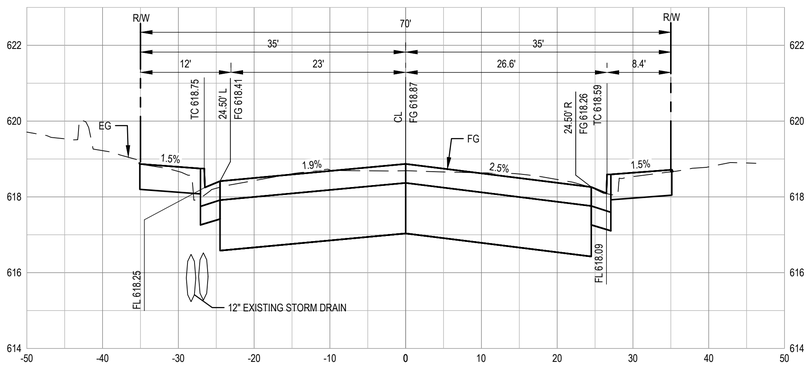

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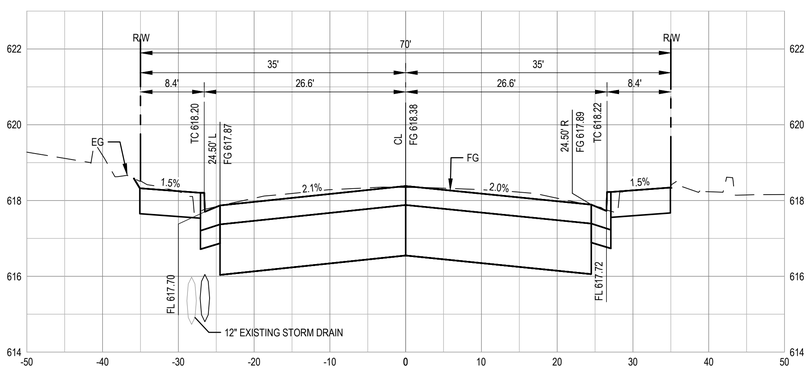

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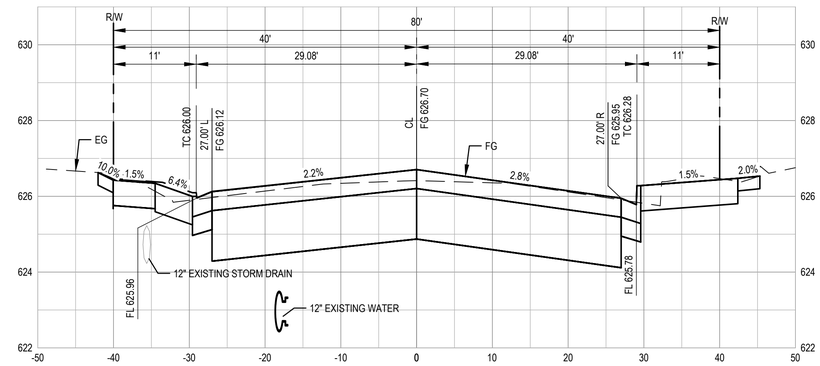

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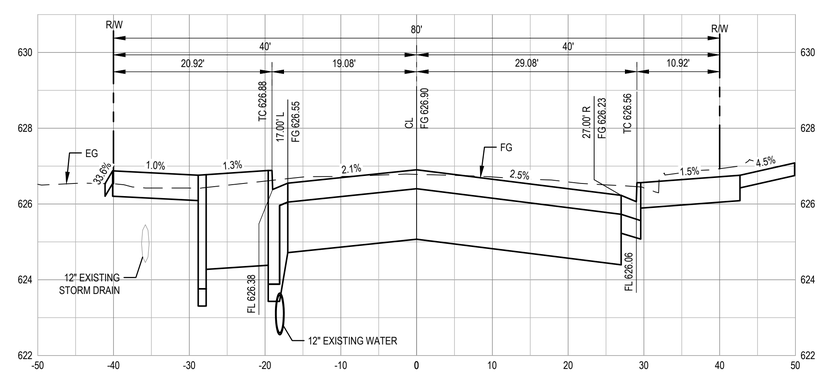

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS
STA. 217+00 - 217+50 & STA. 241+00

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-303

SHEET 41 OF 107

2023-02-22 5:40 PM RBELTRAN
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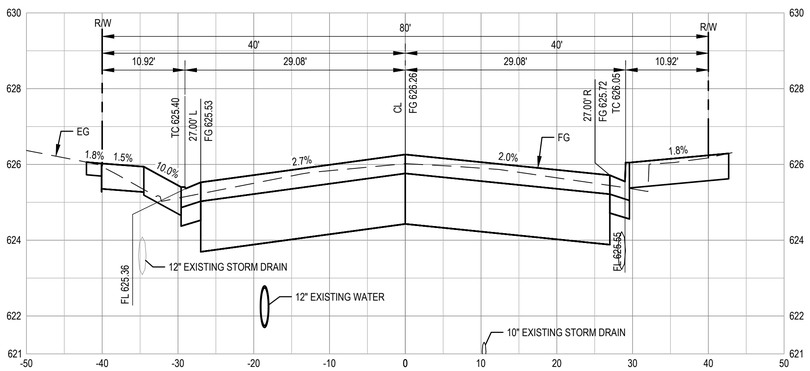

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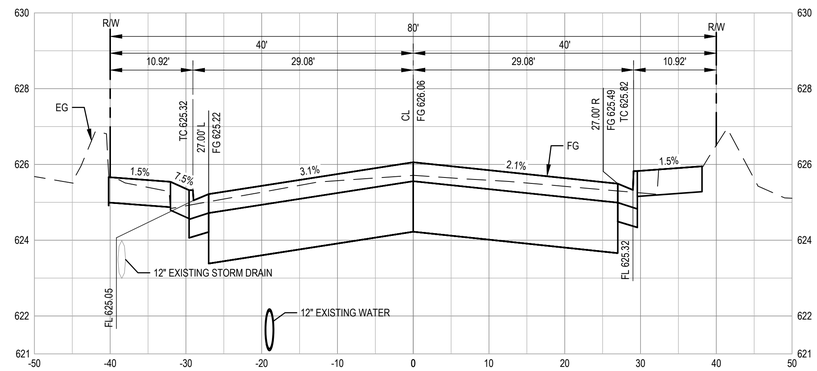

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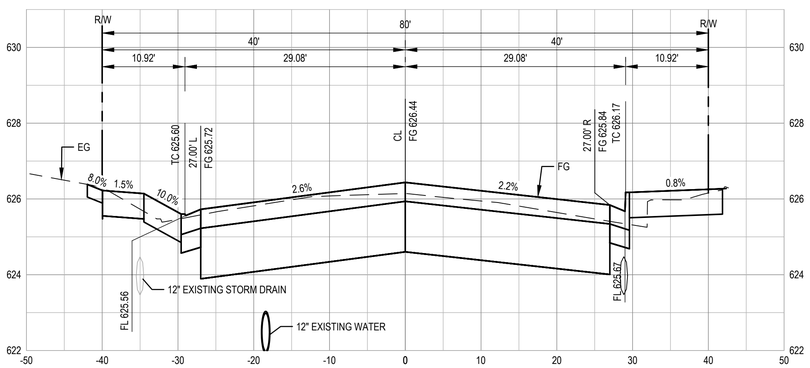

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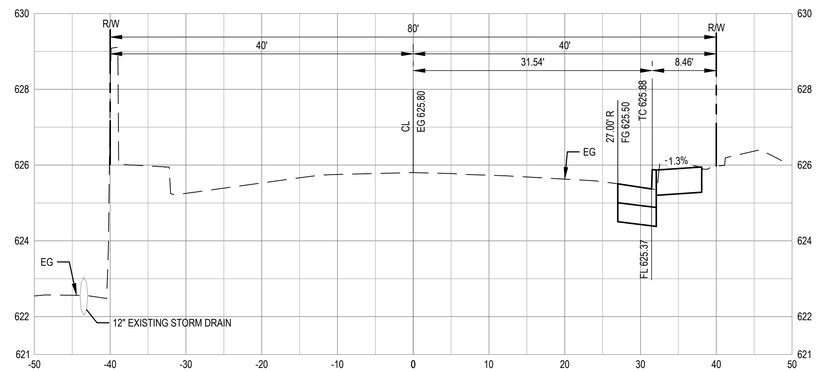

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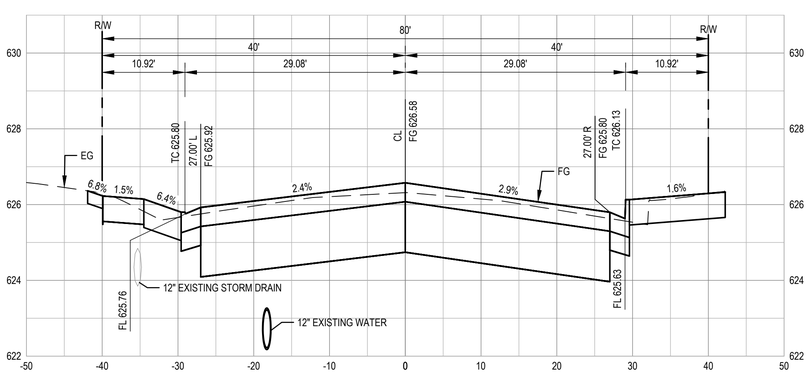

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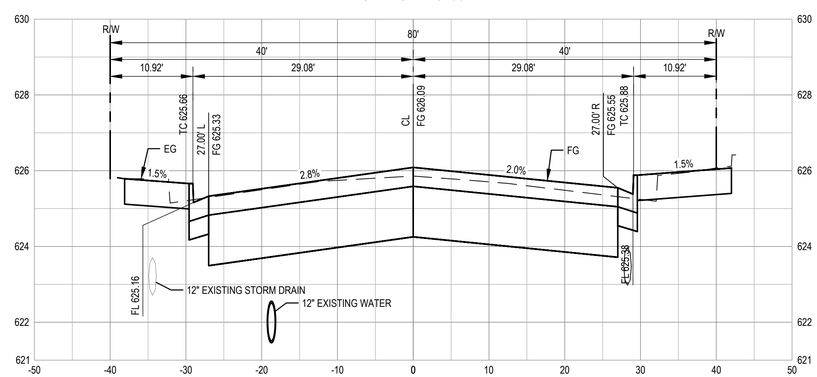

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS STA 241+50 - STA 244+00

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-304

SHEET 42 OF 107

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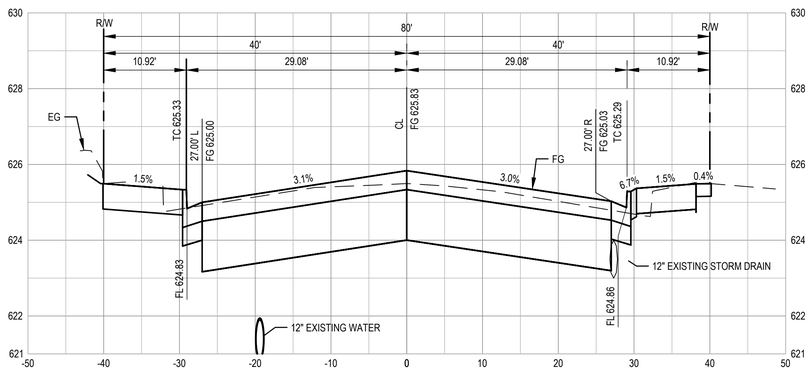

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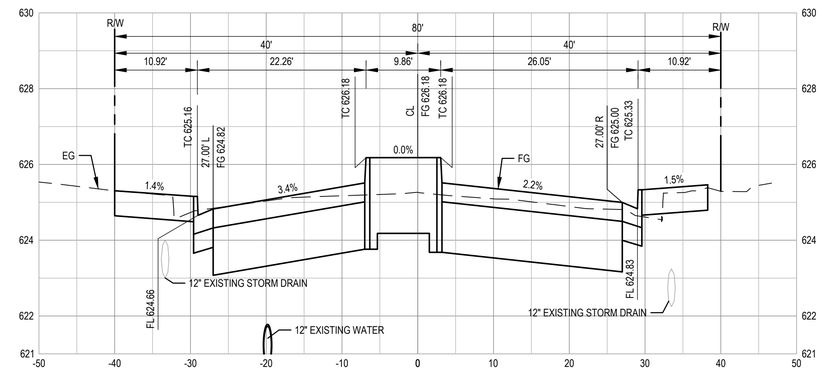

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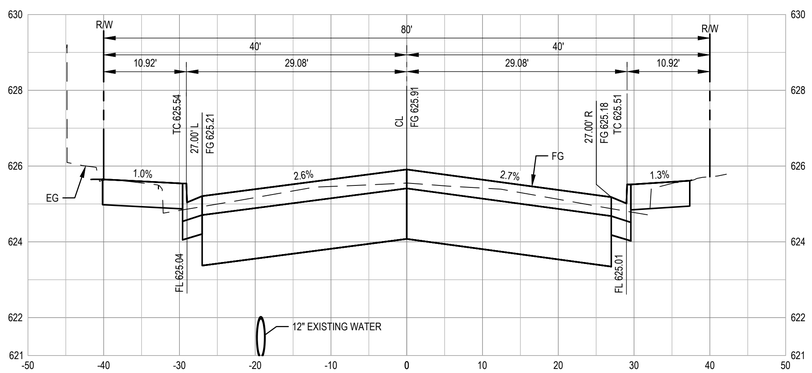

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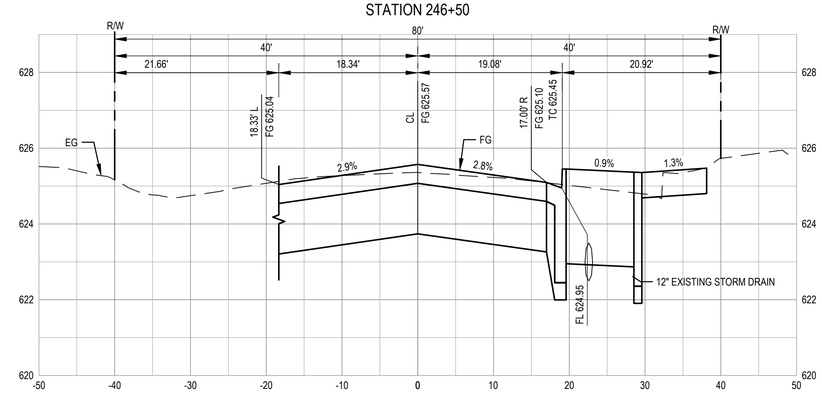

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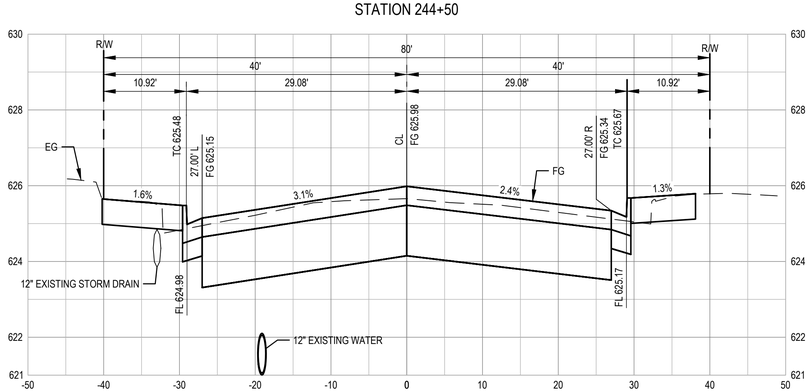

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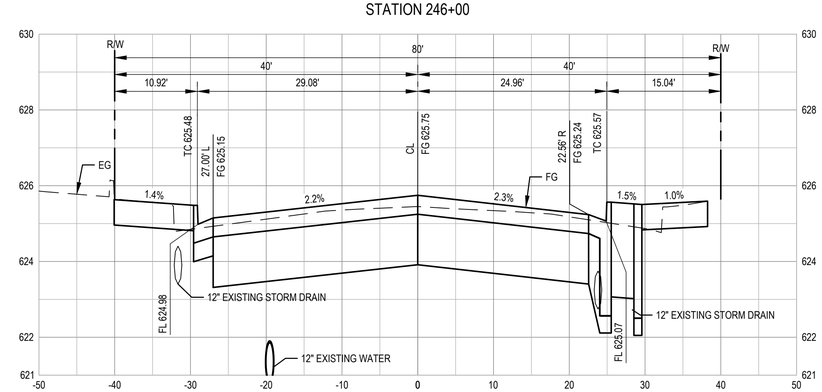

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS STA 244+50 - STA 247+00

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-305

SHEET 43 OF 107

2023-02-22 5:41 PM RBELTRAN
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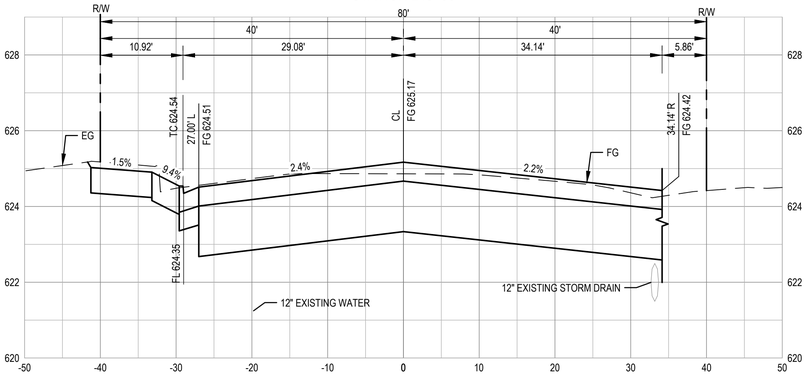
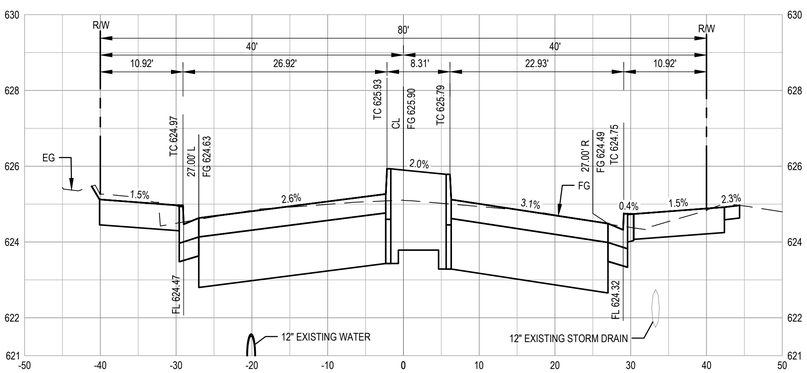
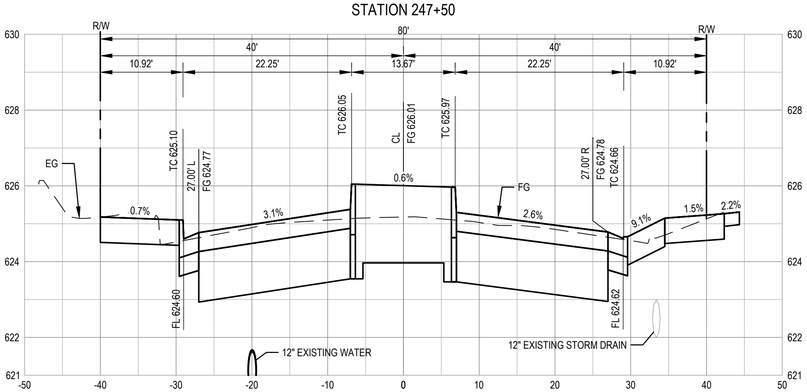


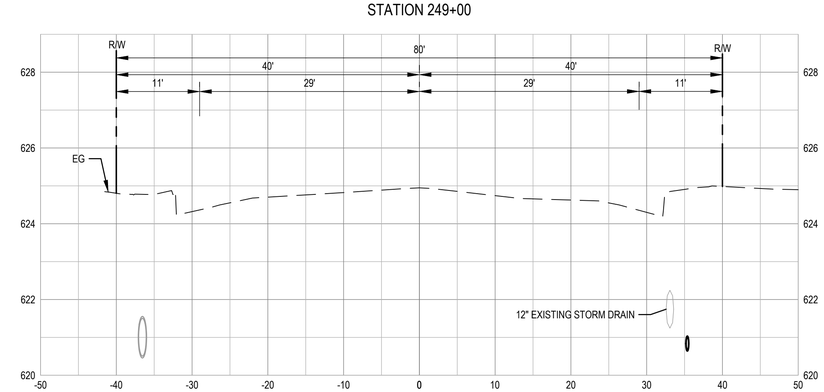
"ST-CL" LINE
STATION 248+00



"ST-CL" LINE
STATION 247+50



"ST-CL" LINE
STATION 249+00



H: 1" = 10' (0, 10', 20') V: 1" = 2' (0, 2', 4')

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CROSS SECTIONS STA 247+50 - STA 249+00

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-306

SHEET 44 OF 107

2023-02-22 5:42 PM RBELTRAN
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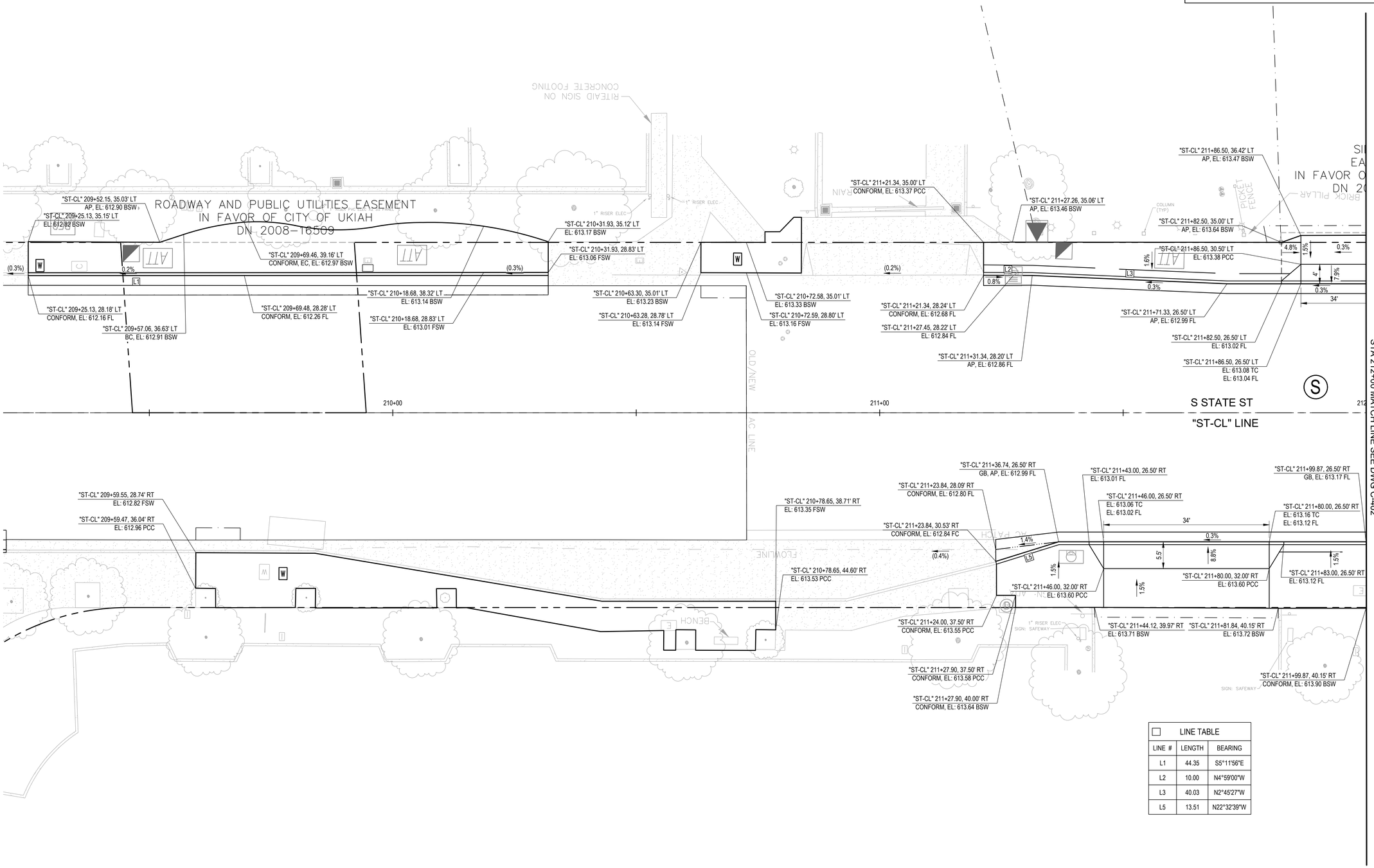
CONSTRUCTION DETAIL SHEET NOTES:

1. FOR GRADING DETAILS AT BULBOUT LOCATIONS SEE CONSTRUCTION DETAIL SHEETS C-409 TO C-412.



LINE TABLE		
LINE #	LENGTH	BEARING
L1	44.35	S5°11'56"E
L2	10.00	N4°59'00"W
L3	40.03	N2°45'27"W
L5	13.51	N22°32'39"W

CONSTRUCTION DETAILS - 1

SCALE: 1" = 10'

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 1

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-401

SHEET 45 OF 107

2023-02-22 5:45 PM RBELTRAN
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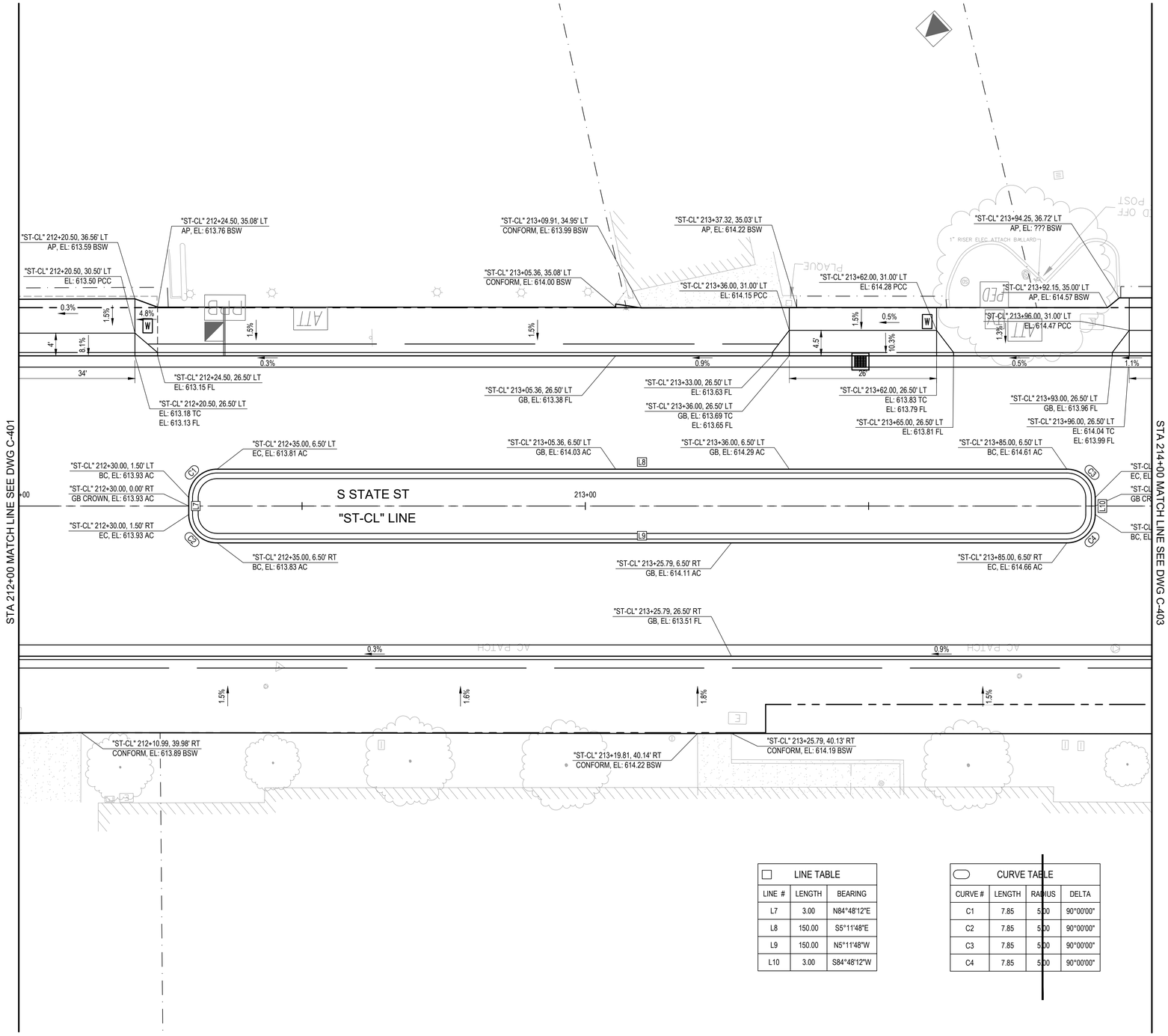

LINE TABLE		
LINE #	LENGTH	BEARING
L7	3.00	N84°48'12"E
L8	150.00	S5°11'48"E
L9	150.00	N5°11'48"W
L10	3.00	S84°48'12"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	7.85	5.00	90°00'00"
C2	7.85	5.00	90°00'00"
C3	7.85	5.00	90°00'00"
C4	7.85	5.00	90°00'00"

CONSTRUCTION DETAILS - 2

SCALE: 1" = 10'

0 10' 20'

N

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 2

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-402

SHEET 46 OF 107

2023-02-22 5:46 PM RBELTRAN
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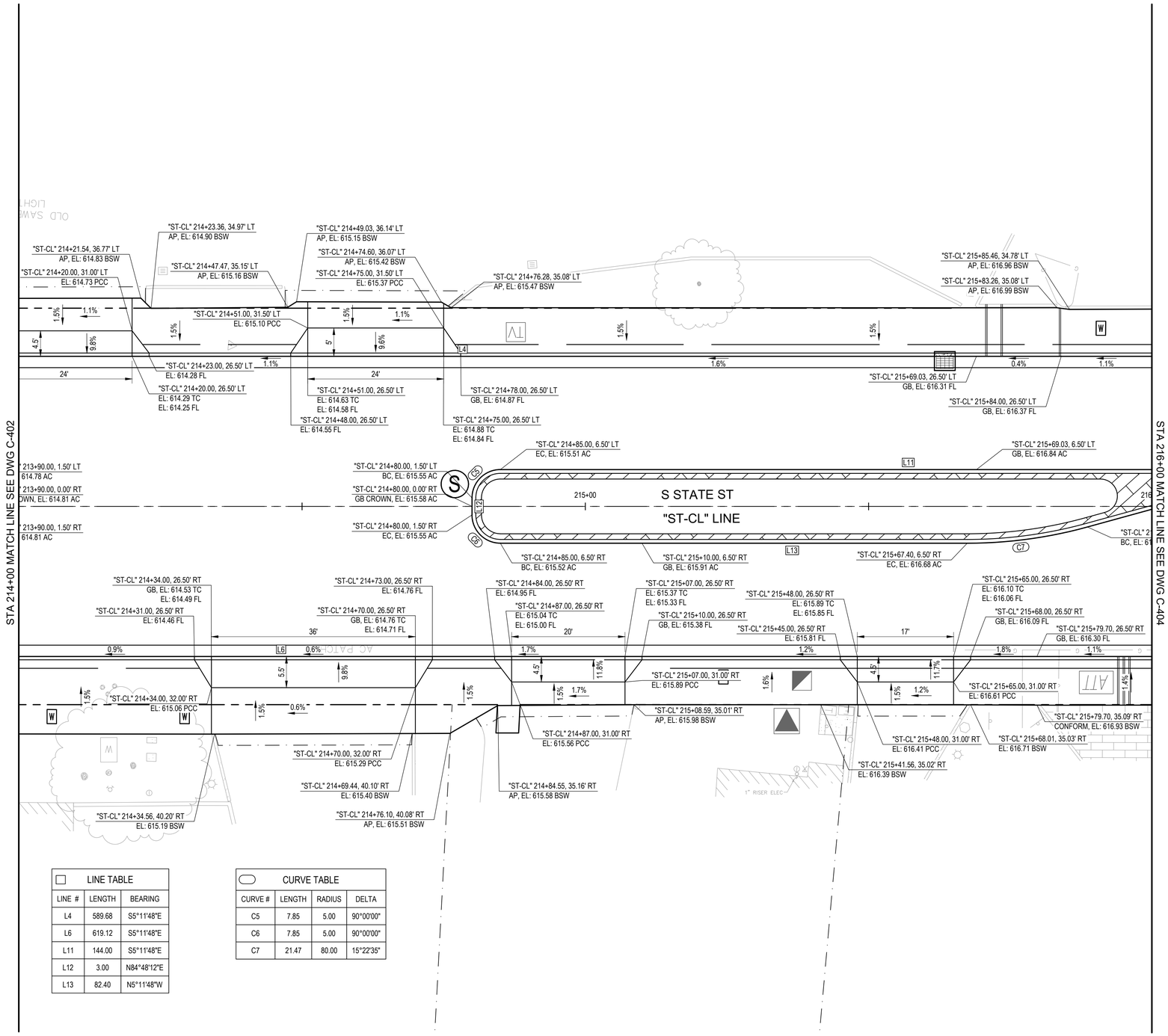

LINE TABLE		
LINE #	LENGTH	BEARING
L4	589.68	S5°11'48"E
L6	619.12	S5°11'48"E
L11	144.00	S5°11'48"E
L12	3.00	N84°48'12"E
L13	82.40	N5°11'48"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C5	7.85	5.00	90°00'00"
C6	7.85	5.00	90°00'00"
C7	21.47	80.00	15°22'35"

CONSTRUCTION DETAILS - 3

SCALE: 1" = 10'

0 10' 20'

N

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 3

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-403

SHEET 47 OF 107

2023-02-22 5:47 PM RBELTRAN
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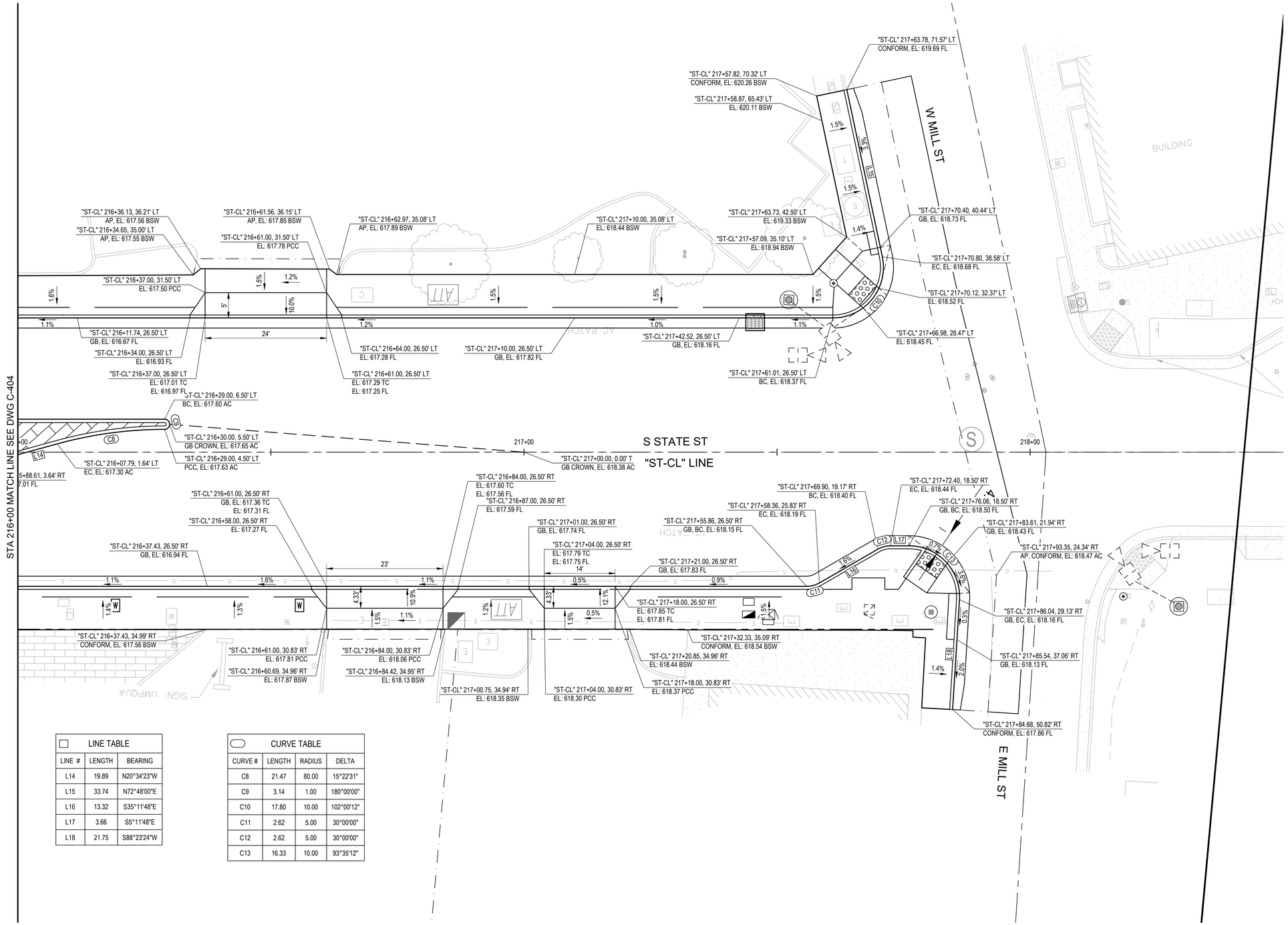

LINE TABLE		
LINE #	LENGTH	BEARING
L14	19.89	N20°34'23"W
L15	33.74	N72°48'00"E
L16	13.32	S35°11'48"E
L17	3.66	S5°11'48"E
L18	21.75	S88°23'24"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C8	21.47	80.00	15°22'31"
C9	3.14	1.00	180°00'00"
C10	17.80	10.00	102°00'12"
C11	2.62	5.00	30°00'00"
C12	2.62	5.00	30°00'00"
C13	16.33	10.00	93°35'12"

CONSTRUCTION DETAILS - 4

SCALE: 1" = 10'

0 10' 20'

N

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 4

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-404

SHEET 48 OF 107

2023-02-22 5:48 PM RBELTRAN
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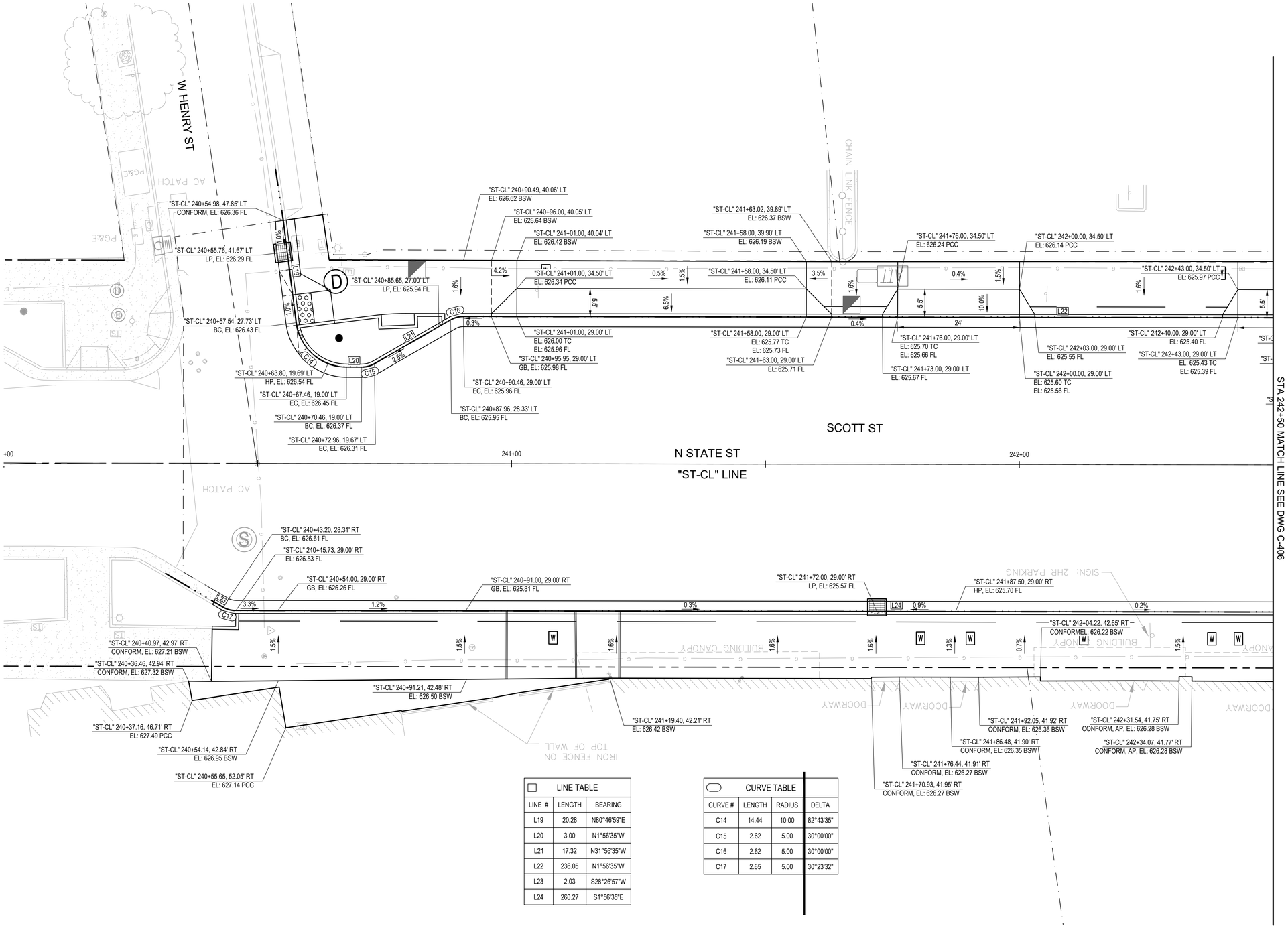

LINE TABLE		
LINE #	LENGTH	BEARING
L19	20.28	N80°46'59"E
L20	3.00	N1°56'35"W
L21	17.32	N31°56'35"W
L22	236.05	N1°56'35"W
L23	2.03	S28°26'57"W
L24	260.27	S1°56'35"E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C14	14.44	10.00	82°43'35"
C15	2.62	5.00	30°00'00"
C16	2.62	5.00	30°00'00"
C17	2.65	5.00	30°23'32"

CONSTRUCTION DETAILS - 5

SCALE: 1" = 10'

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 5

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-405

SHEET 49 OF 107

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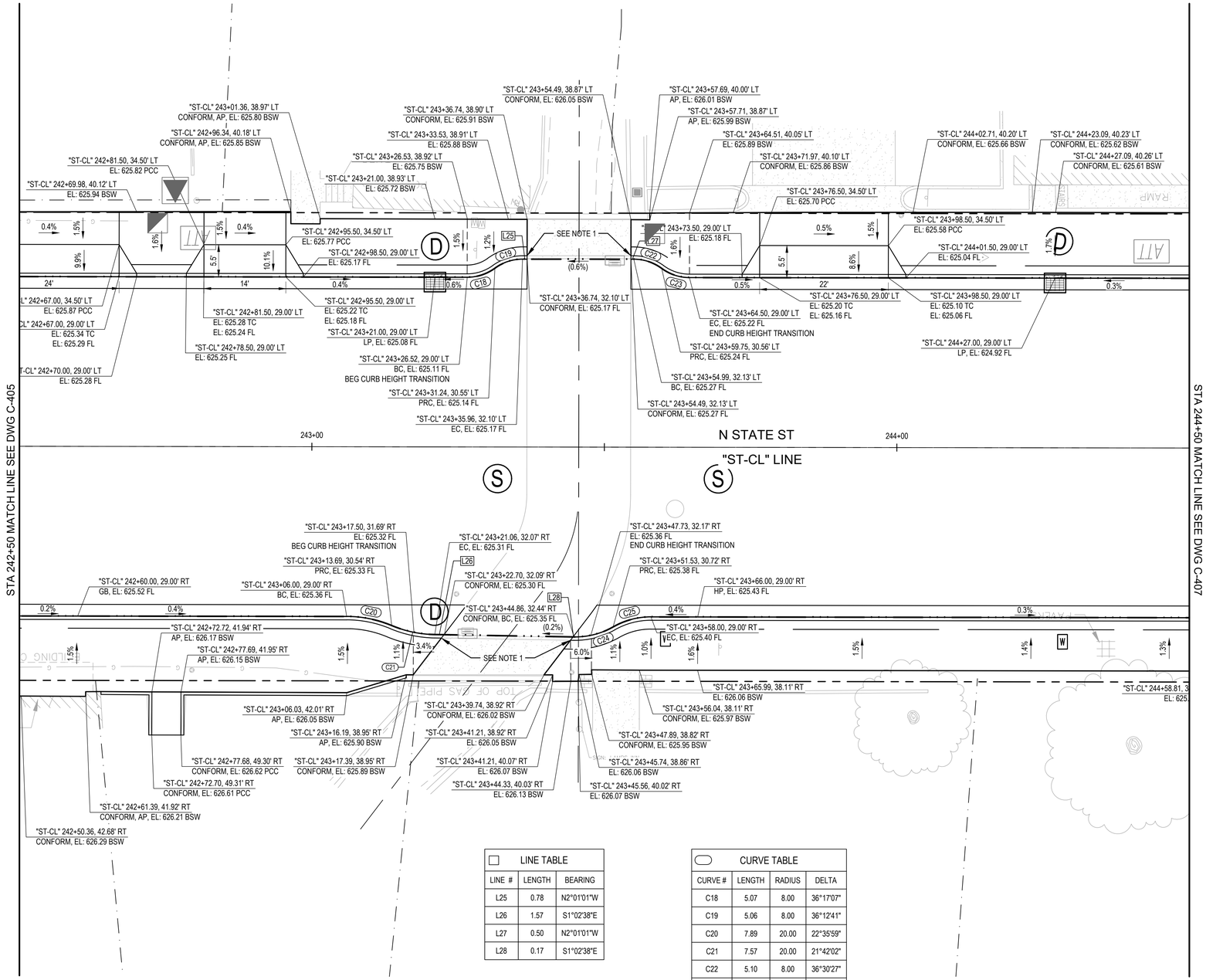
NOTES:

1. CURB HEIGHT TRANSITIONS FROM 6-IN TO 8-IN AT EXISTING BOX CULVERT SIDEWALK CONFORM



LINE TABLE		
LINE #	LENGTH	BEARING
L25	0.78	N2°01'01"W
L26	1.57	S1°02'38"E
L27	0.50	N2°01'01"W
L28	0.17	S1°02'38"E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C18	5.07	8.00	36°17'07"
C19	5.06	8.00	36°12'41"
C20	7.89	20.00	22°35'59"
C21	7.57	20.00	21°42'02"
C22	5.10	8.00	36°30'27"
C23	5.09	8.00	36°26'01"
C24	6.97	13.00	30°43'36"
C25	6.77	13.00	29°49'39"

CONSTRUCTION DETAILS - 6

SCALE: 1" = 10'

0 10' 20'

N

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 6

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-406

SHEET 50 OF 107

2023-02-22 5:50 PM RBELTRAN
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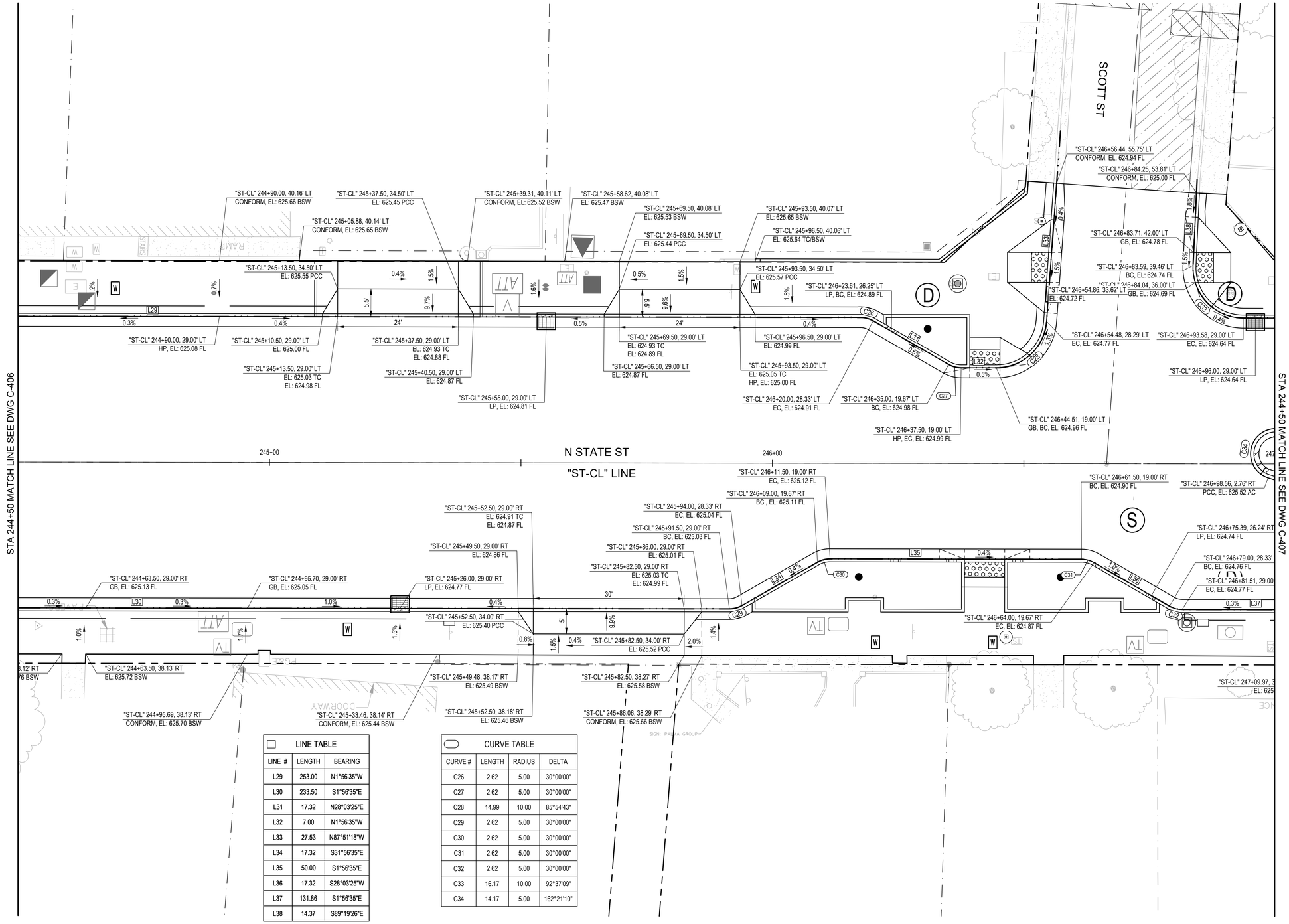

LINE TABLE		
LINE #	LENGTH	BEARING
L29	253.00	N1°56'35"W
L30	233.50	S1°56'35"E
L31	17.32	N28°03'25"E
L32	7.00	N1°56'35"W
L33	27.53	N87°51'18"W
L34	17.32	S31°56'35"E
L35	50.00	S1°56'35"E
L36	17.32	S28°03'25"W
L37	131.86	S1°56'35"E
L38	14.37	S89°19'26"E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C26	2.62	5.00	30°00'00"
C27	2.62	5.00	30°00'00"
C28	14.99	10.00	85°54'43"
C29	2.62	5.00	30°00'00"
C30	2.62	5.00	30°00'00"
C31	2.62	5.00	30°00'00"
C32	2.62	5.00	30°00'00"
C33	16.17	10.00	92°37'09"
C34	14.17	5.00	162°21'10"

CONSTRUCTION DETAILS - 7

SCALE: 1" = 10'

0 10' 20'

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ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 7

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-407

SHEET 51 OF 107

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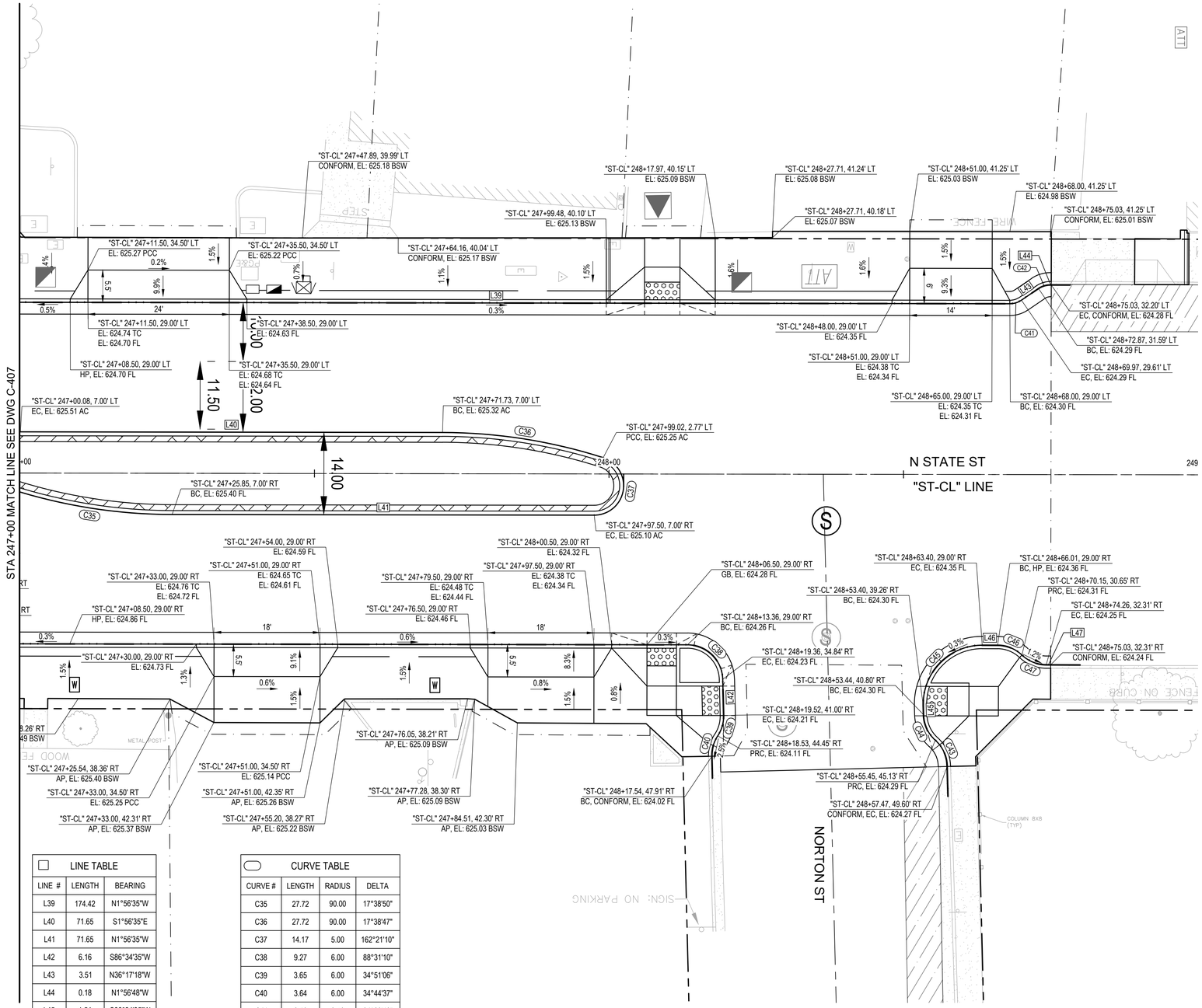

LINE TABLE		
LINE #	LENGTH	BEARING
L39	174.42	N1°56'35"W
L40	71.65	S1°56'35"E
L41	71.65	N1°56'35"W
L42	6.16	S86°34'35"W
L43	3.51	N36°17'18"W
L44	0.18	N1°56'48"W
L45	1.54	S86°34'35"W
L46	2.61	N1°56'35"W
L47	0.76	N1°44'22"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C35	27.72	90.00	17°38'50"
C36	27.72	90.00	17°38'47"
C37	14.17	5.00	162°21'10"
C38	9.27	6.00	88°31'10"
C39	3.65	6.00	34°51'06"
C40	3.64	6.00	34°44'37"
C41	2.10	3.50	34°20'10"
C42	2.10	3.50	34°20'30"
C43	4.89	6.00	46°40'39"
C44	4.91	6.00	46°54'54"
C45	15.97	10.00	91°28'50"
C46	4.56	6.00	43°34'36"
C47	4.54	6.00	43°22'22"

CONSTRUCTION DETAILS - 8

SCALE: 1" = 10'

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ROADWAY & SIDEWALK GRADING CONSTRUCTION DETAILS - 8

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-408

SHEET 52 OF 107

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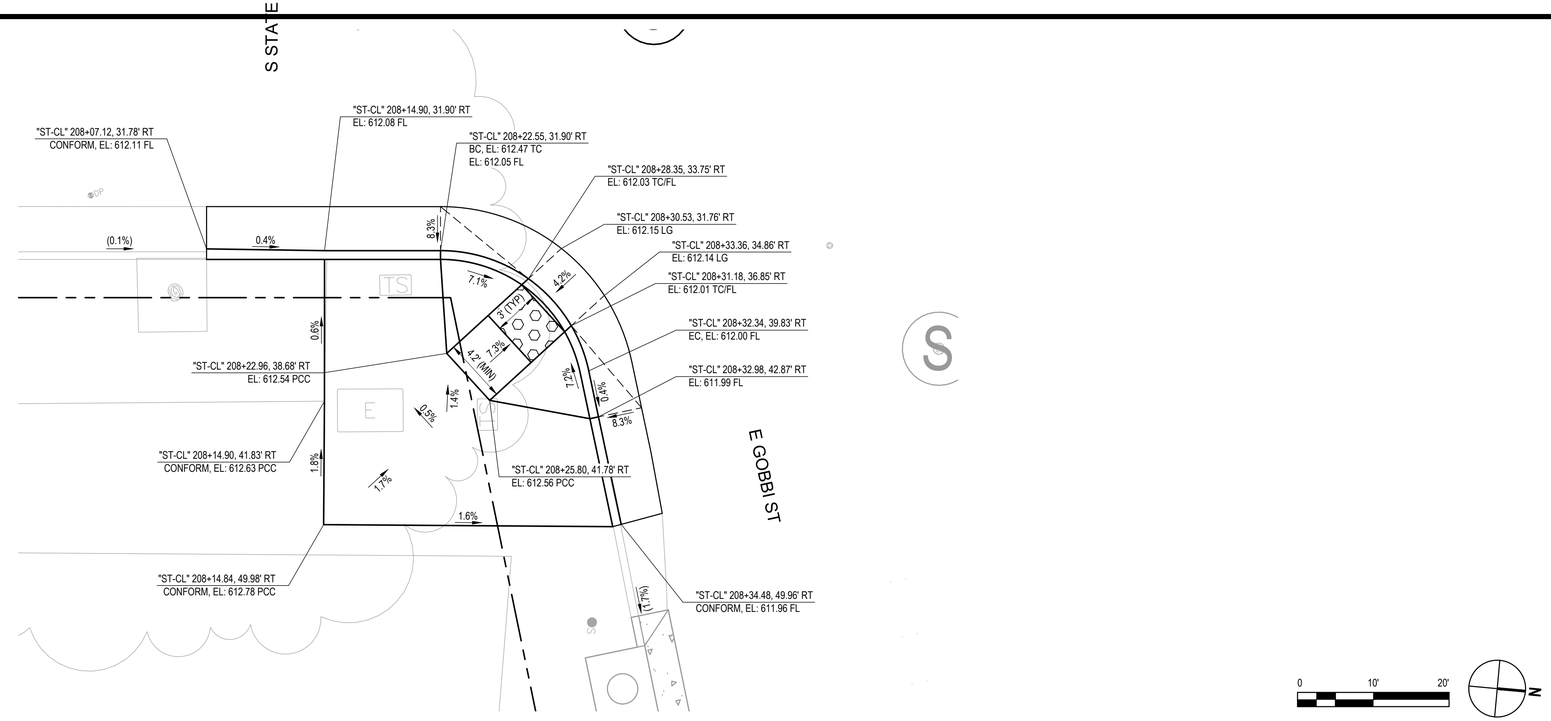
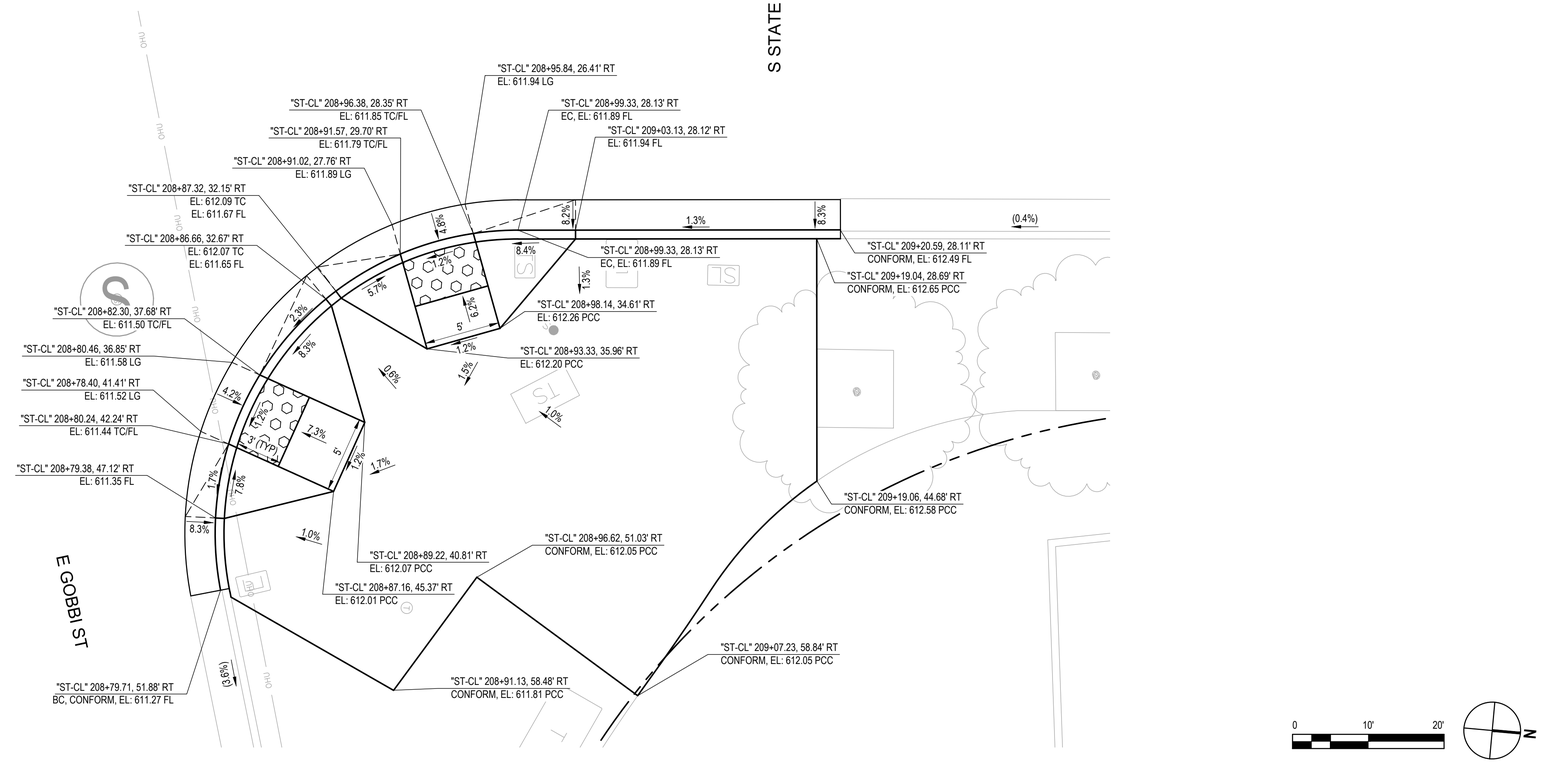


1 SE CORNER OF S STATE STREET AND E GOBBI STREET

SCALE: 1" = 5'-0"



2 NE CORNER OF S STATE STREET AND E GOBBI STREET

SCALE: 1" = 5'-0"

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CURB RAMPS CONSTRUCTION DETAILS - 9

PROJ NO: 11225278

DRWN: RB CHKD: JS

C-409

SHEET 53 OF 107

2023-02-22 8:29 PM RBELTRAN
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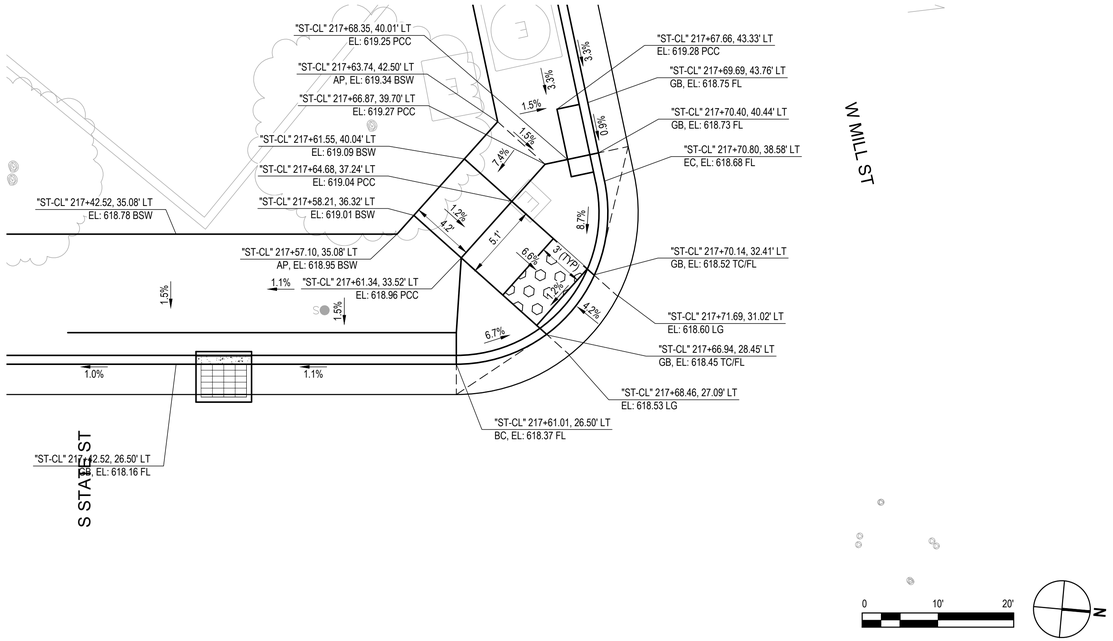
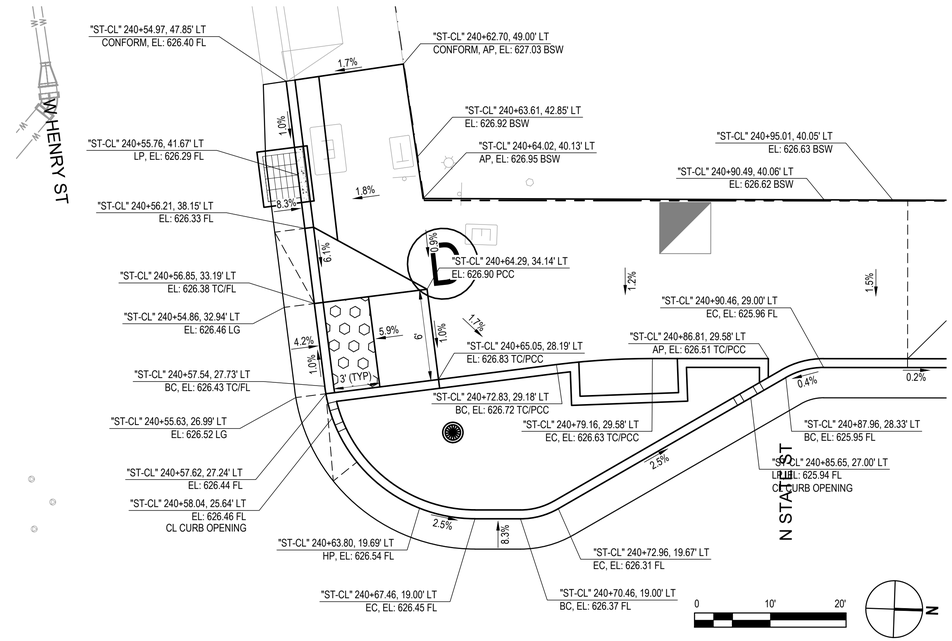


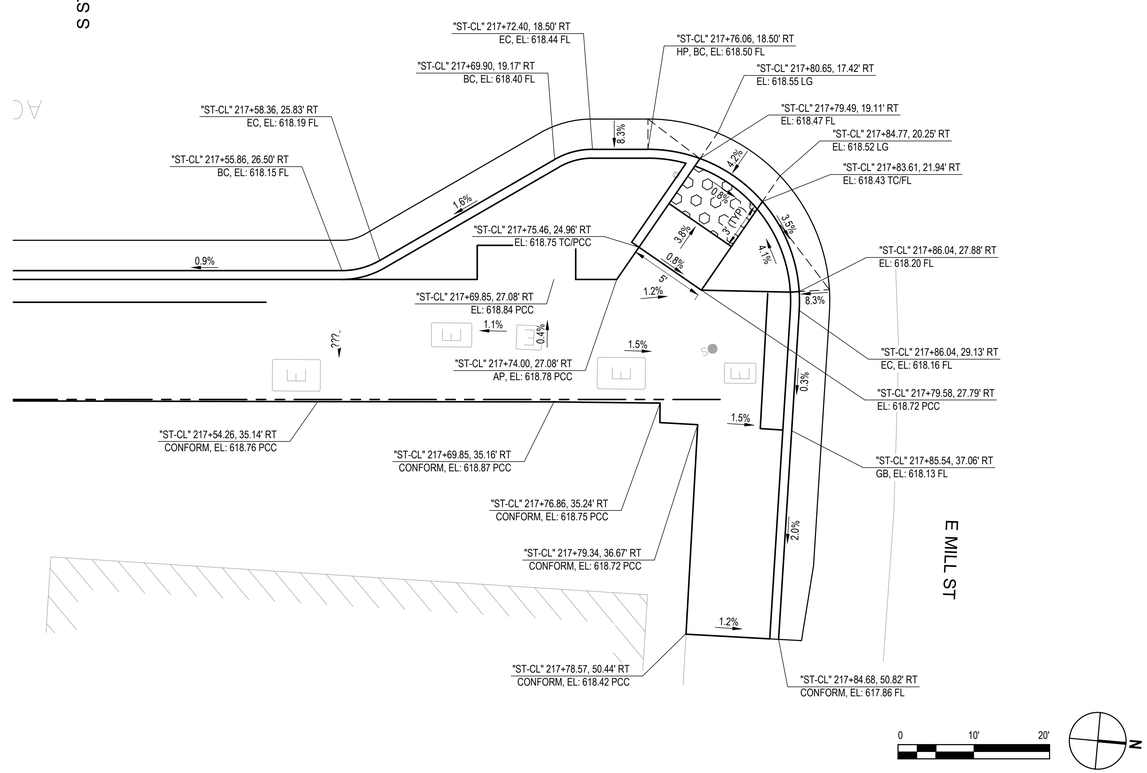
3 SW CORNER OF S STATE STREET AND W MILL STREET

SCALE: 1" = 5'-0"



5 NW CORNER OF N STATE STREET AND W HENRY STREET

SCALE: 1" = 5'-0"



4 SE CORNER OF S STATE STREET AND E MILL STREET

SCALE: 1" = 5'-0"

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REGISTERED PROFESSIONAL ENGINEER
N. SCHMACHTENBERG
No. C26192
Exp. 9/30/23
CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CURB RAMPS CONSTRUCTION DETAILS - 10

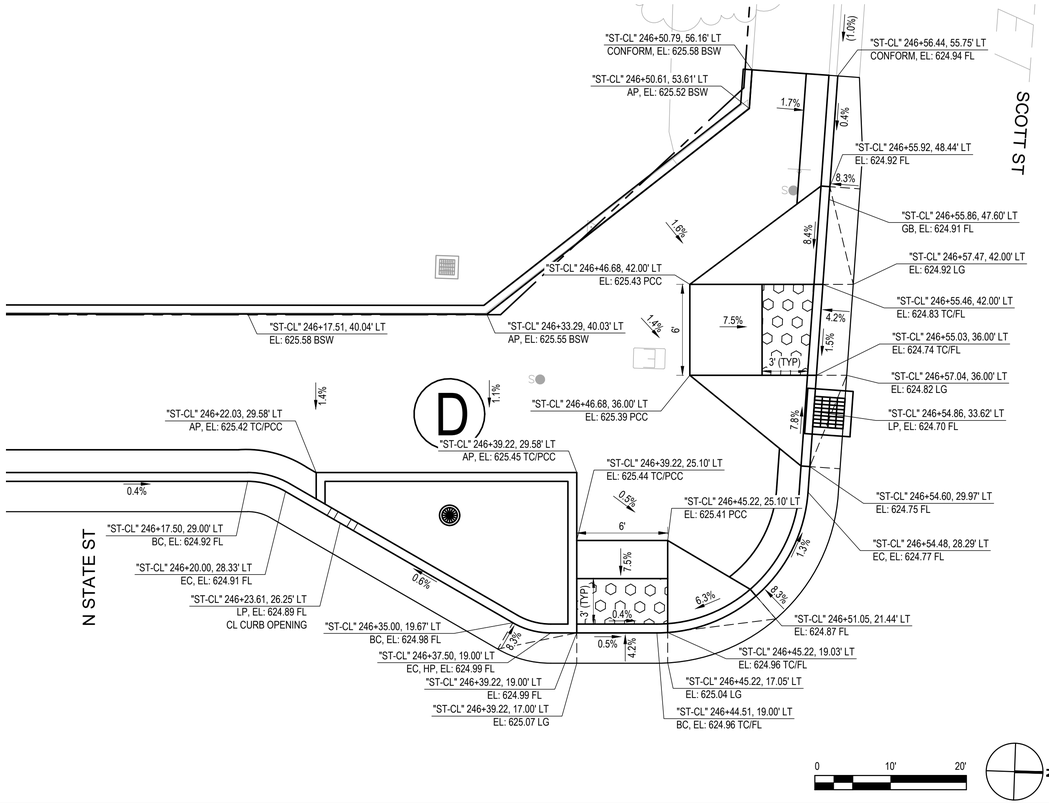
PROJ NO: 11225278

DRWN: RB CHKD: JS

C-410

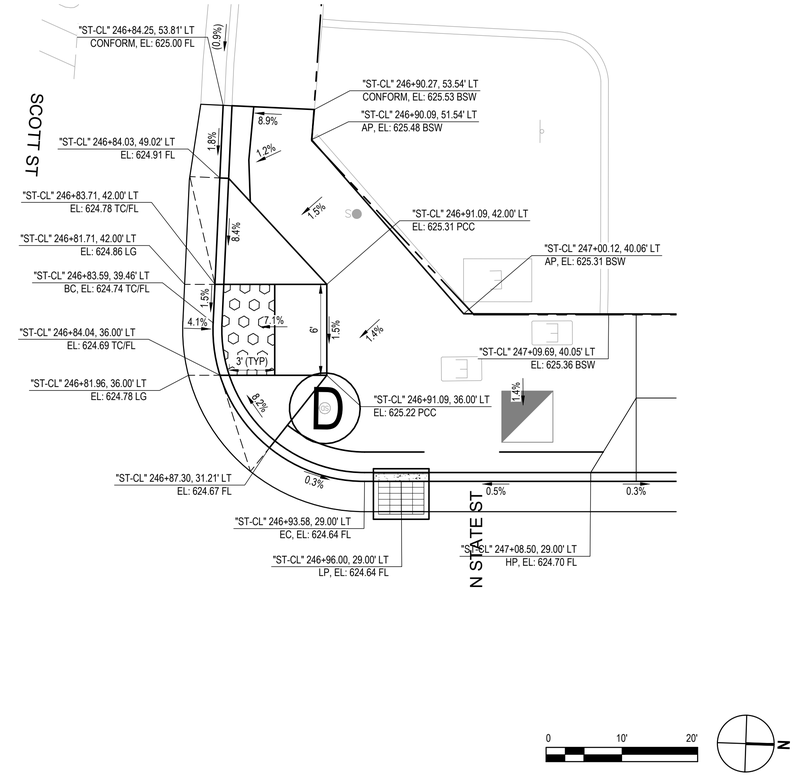
SHEET 54 OF 107

2023-02-22 8:30 PM RBELTRAN
N:\US\SANTA ROSA\PROJECTS\561\11225278\DIGITAL_DESIGN\ACAD 2020\SHEETS\11225278-GHD-0000-DWG-CI-DET-0409 THRU 0412.DWG



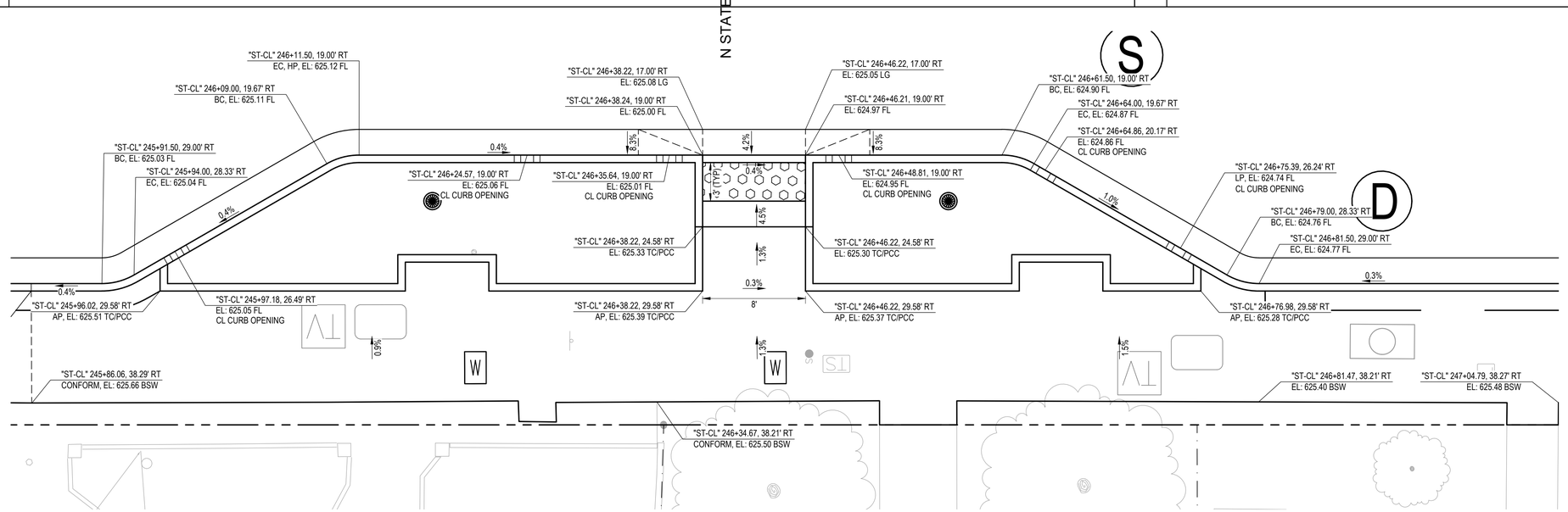
6 SW CORNER OF N STATE STREET AND SCOTT STREET

SCALE: 1" = 5'-0"



7 NW CORNER OF N STATE STREET AND SCOTT STREET

SCALE: 1" = 10'-0"



8 EAST SIDE OF N STATE STREET AND SCOTT STREET

SCALE: 1" = 5'-0"

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CURB RAMPS CONSTRUCTION DETAILS - 11

PROJ NO: 11225278

DRWN: RB CHKD: JS

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SHEET 55 OF 107

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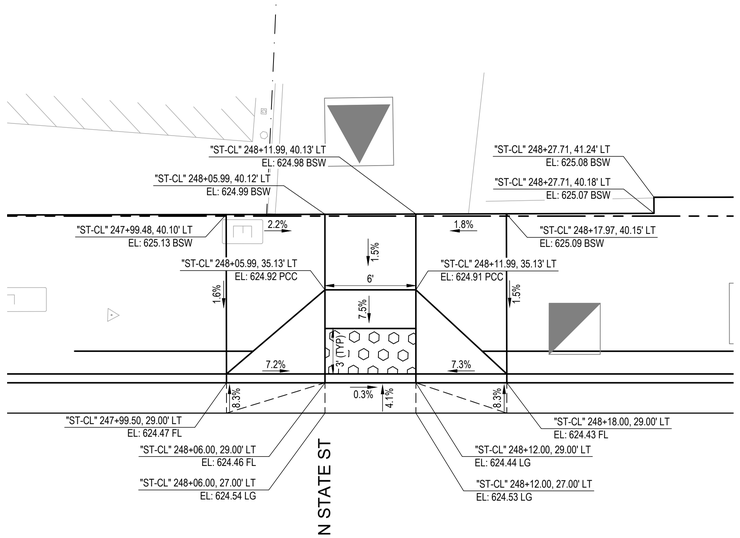
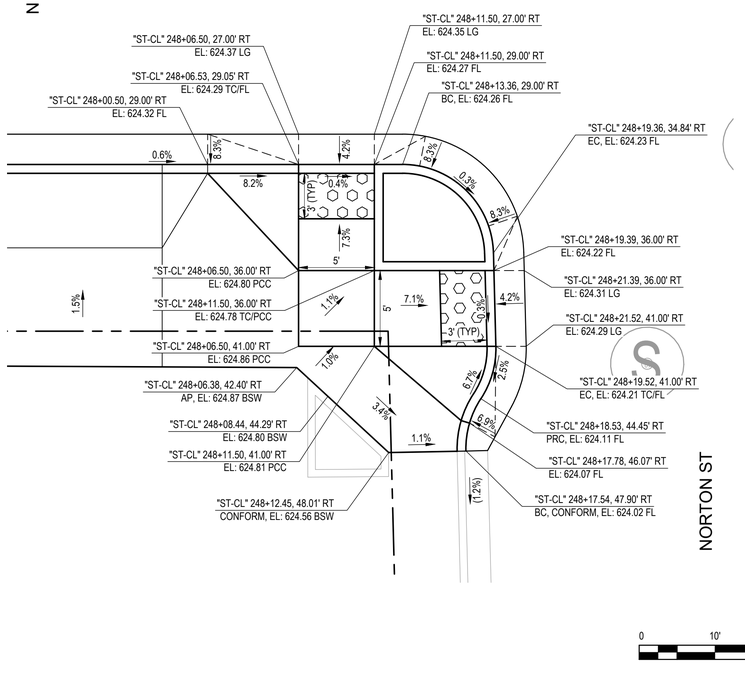
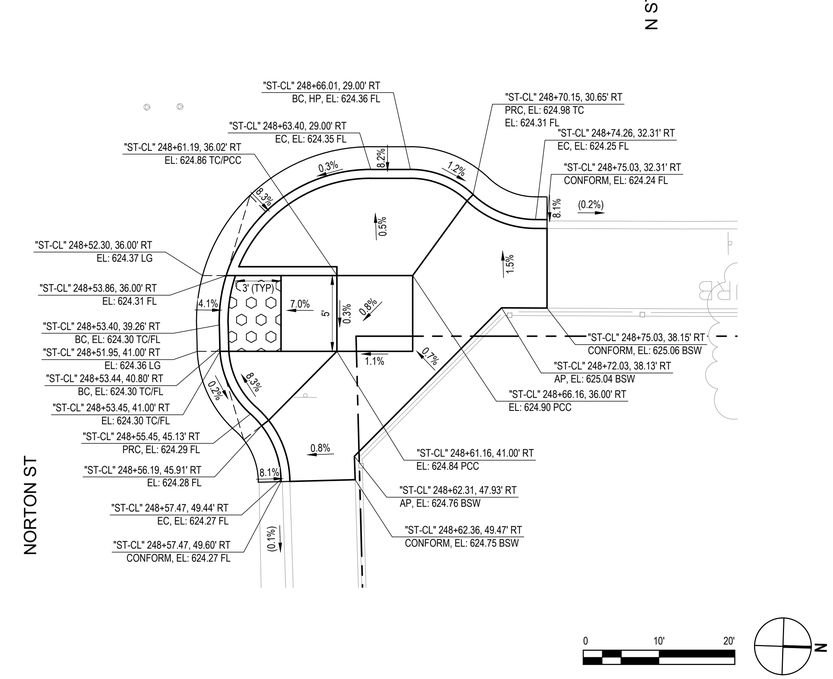


9 **WEST SIDE OF N STATE STREET AND NORTON STREET** SCALE: 1" = 5'-0"



10 **SE CORNER OF N STATE STREET AND NORTON STREET** SCALE: 1" = 5'-0"



11 **NE CORNER OF N STATE STREET AND NORTON STREET** SCALE: 1" = 5'-0"

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CURB RAMPS CONSTRUCTION DETAILS- 12

PROJ NO: 11225278
DRWN: RB CHKD: JS

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SHEET 56 OF 107

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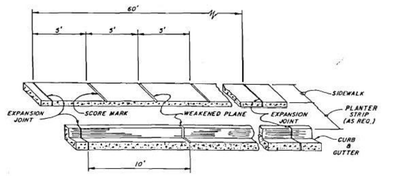


NOTES (See STD. DRG. NO.102)

1. Weakened Plane - 1/8" Wide x 1" Deep in sidewalk, 1/8" Wide x 1-1/2" Deep in curb and gutter. (10' on center)
2. Expansion Joints - Material to be 1/2" thick premolded joint filler, full thickness of concrete. Approved mechanical joints may be used in walls in lieu of expansion joints. Expansion joints shall be placed in the sidewalk at the same location as those in the curb and gutter, when the sidewalk is adjacent to the curb and gutter, unless otherwise directed by the Engineer. Distance between joints 60 feet. Expansion joints shall be installed in the curb & gutter at all curb returns, and also at all driveways
3. Score Marks - In sidewalk 5' on center. In sidewalk 6' or more in width, longitudinal score marks along center of walk. In areas with existing sidewalk, score marks to match existing; or shall meet the approval of the City Engineer.
4. Class "B" concrete shall be used.
5. Relative compaction for aggregate base material 90%
6. Weakened Plane shall be made at both sides of vaults and catch basins from back of curb to back of sidewalk.

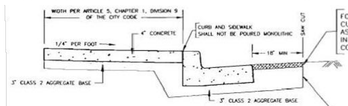
CITY OF UKIAH

SCORE MARK DETAILS FOR SIDEWALK, CURB, CURB & GUTTER

Scale: NONE | Drawn By: ML | Approved By: | Drawing No. 101
Date: 8-13-99 | Revised: 8-19-99

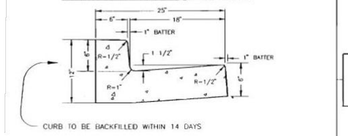
101 SCORE MARK DETAILS FOR SIDEWALK CURB, CURB & GUTTER NTS

SIDEWALK AND CURB AND GUTTER SECTION



FOR REPAIR OR REPLACEMENT OF CURB AND GUTTER, SAW CUT EXISTING ASPHALT MIN. 18" FROM LIP OF GUTTER IN ORDER TO ALLOW FOR ADEQUATE COMPACTION OF AGGREGATE BASE.

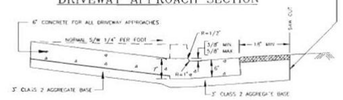
CURB AND GUTTER SECTION



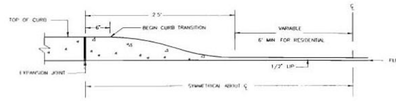
CURB TO BE BACKFILLED WITHIN 14 DAYS

PAVEMENT: TYPE B- 1/2 MEDIUM ASPHALT CONCRETE. THICKNESS = THE EXISTING AC SECTION PLUS 2" OR 3" WHICHEVER IS GREATER. BASE ROCK: CLASS 2 AGGREGATE BASE. THICKNESS TO MATCH EXISTING OR 6" WHICHEVER IS GREATER.

DRIVEWAY APPROACH SECTION



DRIVEWAY APPROACH ELEVATION



NOTES:

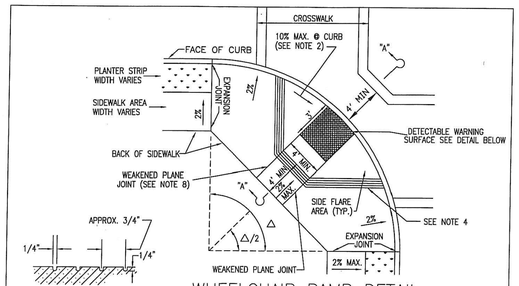
- EXPANSION JOINTS AT EACH SIDE OF DRIVEWAY APPROACH. SEE STD. DRWG. NO. 101.
- USE CLASS B CONCRETE (5 SACK MIX) MINIMUM.
- CURB AND GUTTER SHALL NOT BE POURED MONOLITHIC WITH SIDEWALK.
- FOR DRIVEWAY APPROACH OR CURB AND GUTTER CONSTRUCTION ADJACENT TO STREET AREAS WITH EXISTING ASPHALT, CONTRACTOR SHALL SAW CUT EXISTING A.C. 18" FROM LIP OF GUTTER.
- DRIVEWAY APPROACH AND GUTTER SECTION MAY BE POURED MONOLITHIC.
- AGGREGATE BASE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.

CITY OF UKIAH

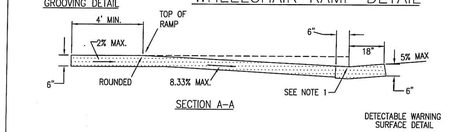
SIDEWALK, CURB AND GUTTER, AND DRIVEWAY APPROACH DETAILS

SCALE: NONE | DRAWN BY: PJA | APPROVED: | 2/25/99
DATE: 1/96 | REVISED: LJW | Drawing No. 102

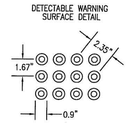
102 SIDEWALK, CURB AND GUTTER AND DRIVEWAY APPROACH NTS



WHEELCHAIR RAMP DETAIL



SECTION A-A



NOTES

1. THE TRANSITION FROM RAMPS TO GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. SLOPE OF SIDE FLARE SHALL BE 1:10 (10%) MAXIMUM.
3. RAMP AND SIDE FLARE AREA SHALL BE CONSTRUCTED WITH A HEAVY BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
4. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" O.C.
5. DETECTABLE WARNING SURFACE SHALL CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE GRID PATTERN. SEE DETECTABLE WARNING SURFACE DETAIL.
6. BACK OF RAMP SHALL BE 4' WIDE WITH MAXIMUM 2% SLOPE. MINIMUM RAMP WIDTH SHALL BE 4'.
7. MINIMUM FACE OF CURB RADIUS SHALL BE 15'.
8. WEAKENED PLANE JOINTS: 1/8" WIDE X 1-1/2" DEEP.
9. REFER TO STANDARD DRAWING 102 FOR APPLICABLE SIDEWALK, CURB AND GUTTER DETAILS.

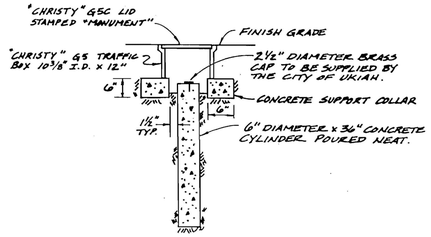
1. BASE DIA. OF .09".
2. TOP DIA. OF 50-60% OF BASE DIA.
3. HEIGHT OF 0.2".
4. CENTER TO CENTER SPACING OF 1.67"- 2.35".
5. VISUAL CONTRAST OF LIGHT ON DARK OR DARK ON LIGHT W/ ADJACENT WALKING SURFACE.
6. THE EDGE OF DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.

CITY OF UKIAH

WHEELCHAIR RAMP DETAIL

SCALE: NONE | APPROVED BY: | DATE APPROVED: 2/4/09 | DRAWING NO. 111

111 ADA RAMP NOT TO SCALE

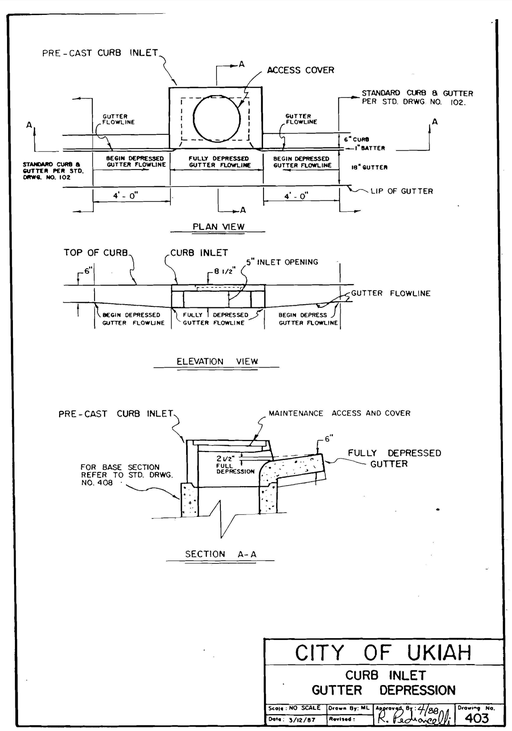


CITY OF UKIAH

STREET MONUMENT DETAIL

Scale: NONE | Drawn By: M.G. | Approved By: | Drawing No. 140
Date: 8/96 | Revised:

140 STREET MONUMENT NOT TO SCALE

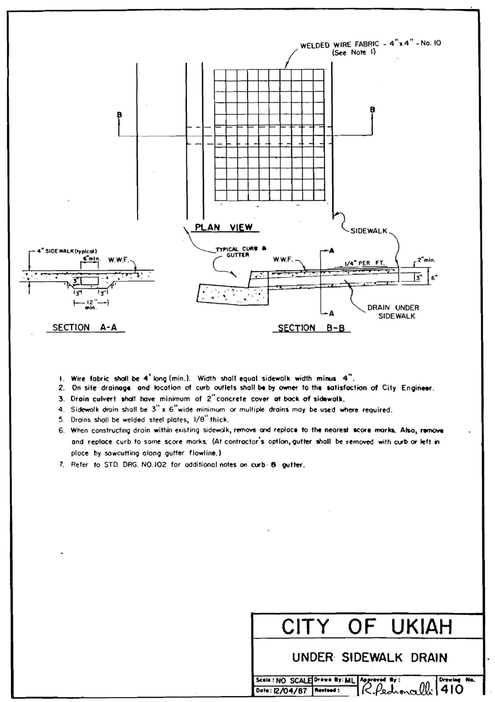


CITY OF UKIAH

CURB INLET GUTTER DEPRESSION

Scale: NO SCALE | Drawn By: ML | Approved By: R. Pachnowski | Drawing No. 403
Date: 3/12/87 | Revised:

403 CURB INLET GUTTER DEPRESSION NOT TO SCALE



1. Wire fabric shall be 4' long (min.). Width shall equal sidewalk width minus 4".
2. On site drainage and location of curb outlets shall be by owner to the satisfaction of City Engineer.
3. Drain culvert shall have minimum of 2" concrete cover at back of sidewalk.
4. Sidewalk drain shall be 3" x 6" wide minimum or multiple drains may be used where required.
5. Drains shall be welded steel plates, 1/8" thick.
6. When constructing drain within existing sidewalk, remove and replace to the nearest score marks. Also, remove and replace curb to same score marks. (At contractor's option, gutter shall be removed with curb or left in place by sawcutting along gutter flowline.)
7. Refer to STD. DRG. NO.102 for additional notes on curb & gutter.

CITY OF UKIAH

UNDER SIDEWALK DRAIN

Scale: NO SCALE | Drawn By: ML | Approved By: R. Pachnowski | Drawing No. 410
Date: 12/04/87 | Revised:

410 UNDER SIDEWALK DRAIN NOT TO SCALE

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CIVIL DETAILS -1

PROJ NO: 11225278
DRWN: RB | CHKD: JS

C-501

SHEET 57 OF 107

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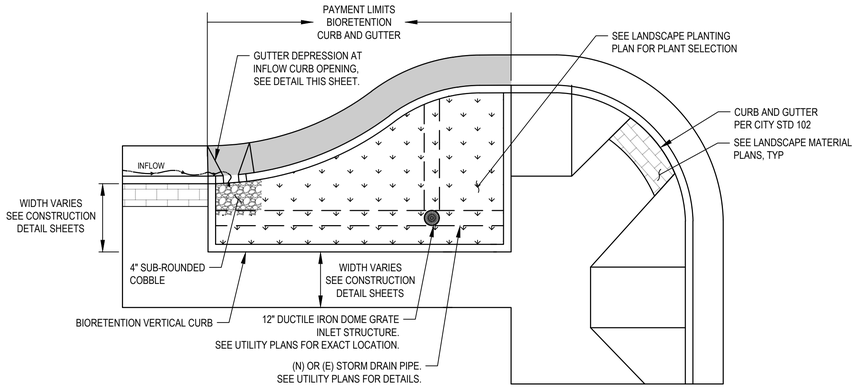
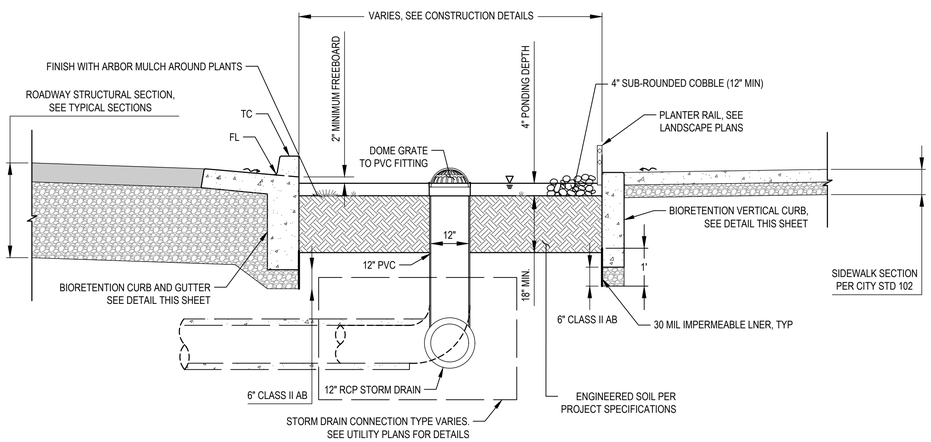


PLAN

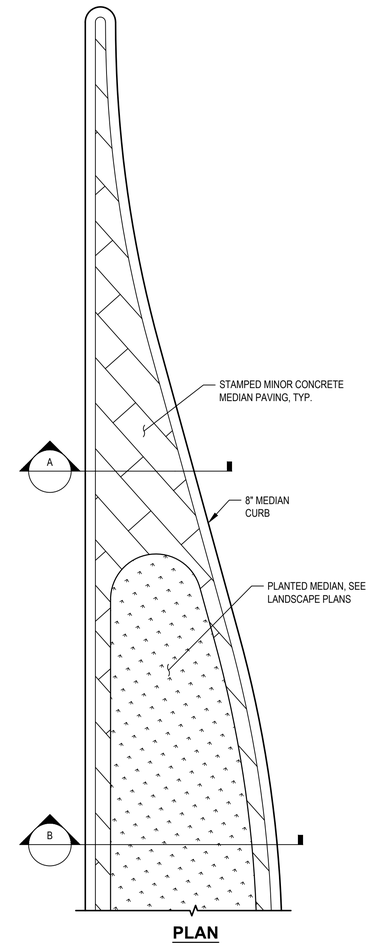


NOTES:

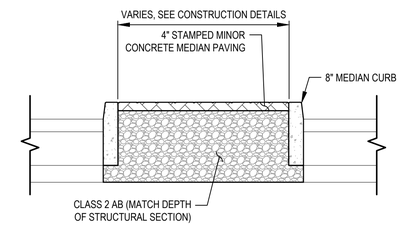
1. POUR TOP OF BIORETENTION VERTICAL CURB FLUSH WITH ADJACENT SIDEWALK. SEE CONSTRUCTION DETAILS FOR GRADING INFORMATION.
2. LOCATION OF DOME GRATE COVER VARIES, TO CONFIRM LOCATION SEE UTILITY SHEETS.
3. SEE DETAIL 5 SHEET U-505 FOR CONNECTING TO NEW STORM DRAIN.
4. SEE DETAIL 6 SHEET U-505 FOR CONNECTING TO EXISTING STORM DRAIN.

TYPICAL SECTION

1 TYPICAL BIORETENTION WITH OVERFLOW STRUCTURE NOT TO SCALE

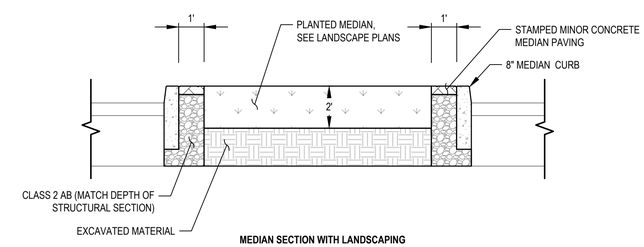


PLAN



MEDIAN SECTION WITH STAMPED CONCRETE

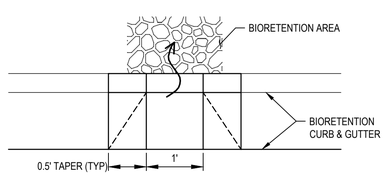
CROSS SECTION A



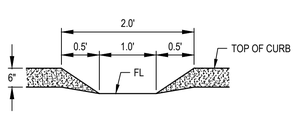
MEDIAN SECTION WITH LANDSCAPING

CROSS SECTION B

6 MEDIAN ISLAND DETAIL NOT TO SCALE

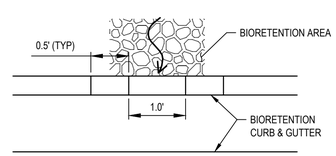


PLAN



ELEVATION

2 TYPICAL INFLOW CURB OPENING NOT TO SCALE



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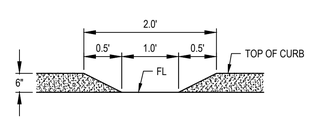
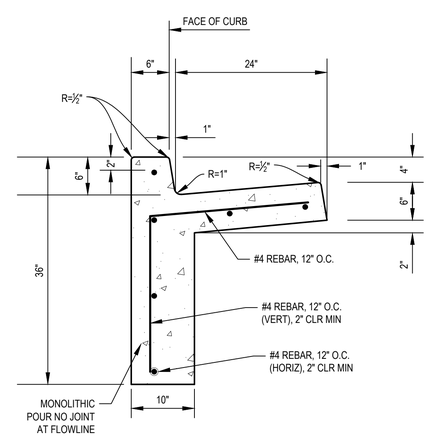
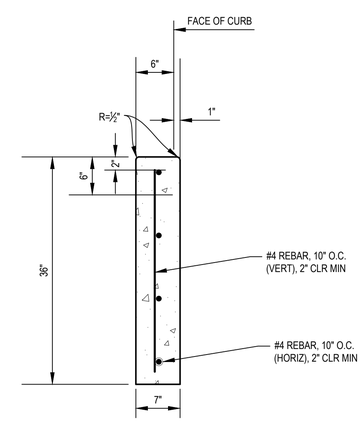


ELEVATION

3 TYPICAL OVERFLOW CURB OPENING NOT TO SCALE



4 BIORETENTION CURB AND GUTTER NOT TO SCALE



5 BIORETENTION VERTICAL CURB NOT TO SCALE

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CIVIL DETAILS - 2

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-502

SHEET 58 OF 107

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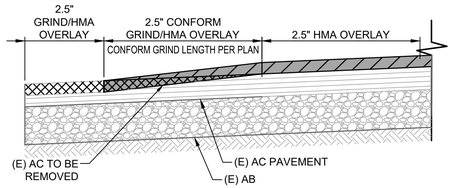
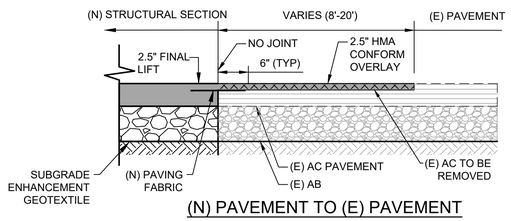
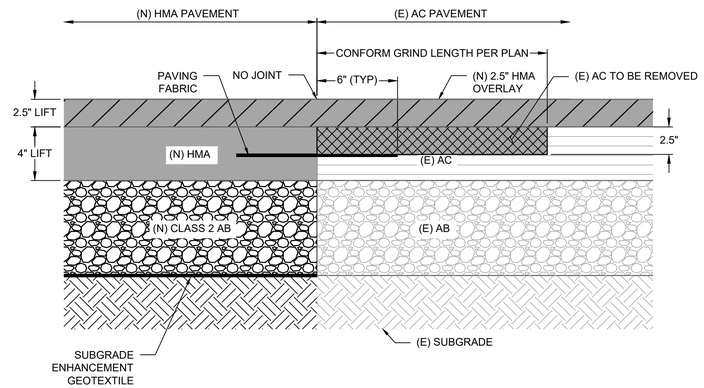


(N) OVERLAY TO (E) PAVEMENT

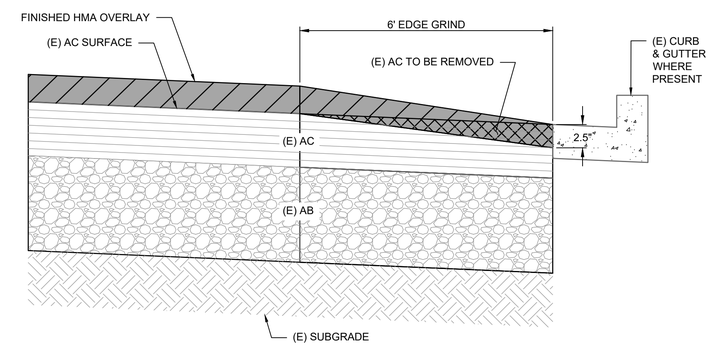


(N) PAVEMENT TO (E) PAVEMENT

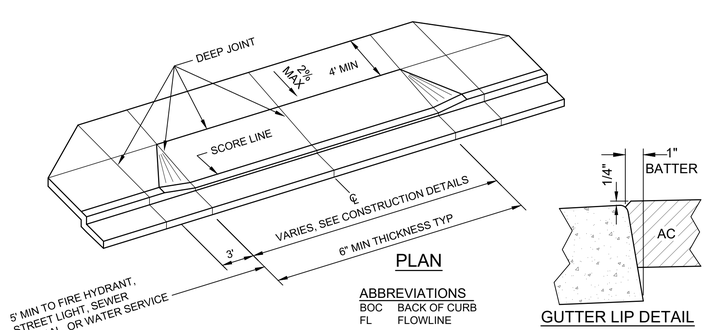
1 **TYPICAL CONFORM GRIND** NOT TO SCALE



2 **HMA PAVEMENT / HMA OVERLAY CONFORM** NOT TO SCALE



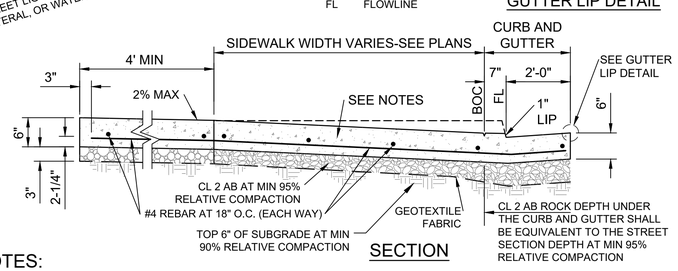
3 **EDGE GRIND** NOT TO SCALE



PLAN

ABBREVIATIONS
BOC BACK OF CURB
FL FLOWLINE

GUTTER LIP DETAIL

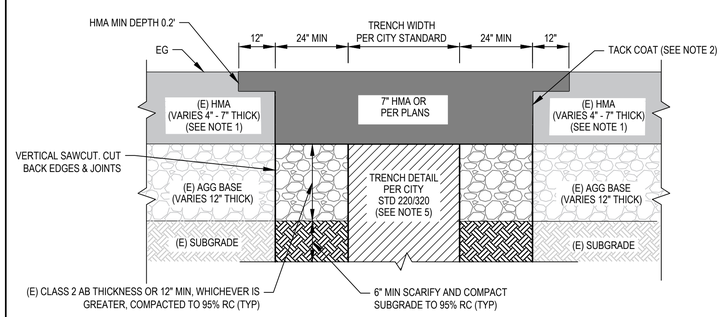


SECTION

NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS. CEMENT CONTENT SHALL BE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, SAWCUT AND REPLACE EXISTING PAVEMENT A MINIMUM OF 18" BEYOND LIP OF GUTTER.
3. SCORE LINES SHALL BE 1/4" DEEP.
4. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
5. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES, STREET LIGHTS, AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
8. ANY UTILITY BOX OR LID WITHIN 5 FEET OF THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.

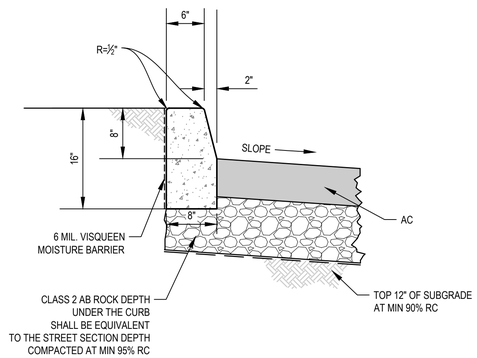
4 **DRIVEWAY APPROACH** NOT TO SCALE



NOTES:

1. FOR UTILITY TRENCHES WITHIN ROADWAY RECONSTRUCTION LIMITS, HMA AND AB DEPTHS SHALL MATCH THE PROPOSED STRUCTURAL SECTION SHOWN IN PLANS.
2. TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED PRIOR TO PLACING HMA.
3. REMOVE ADDITIONAL PAVEMENT TO A PAINTED LINE STRIPE, A LIP OF GUTTER, A CURB, AN HMA SURFACE COURSE, AN (E) PAVEMENT PATCH, OR AN EDGE OF PAVEMENT, IF SUCH FEATURE IS WITHIN 3 FEET OF FINAL SAWCUT.
4. ALL MATERIALS, WORKMANSHIP, TESTING, AND INSPECTONS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND PROJECT-SPECIFIC SPECIAL PROVISIONS.
5. REFER TO STD DETAIL 220/U-501 FOR SEWER MAIN TRENCH. REFER TO STD DETAIL 320/U-503 FOR WATER MAIN TRENCH.
6. MAIN TRENCHES REQUIRING RESTORATION INCLUDE BUT NOT LIMITED TO THOSE SHOWN IN THIS DETAIL.

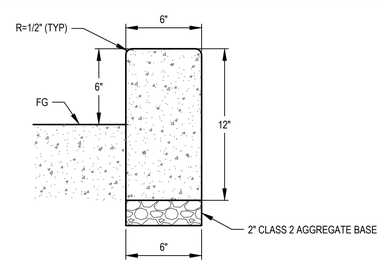
5 **PERMANENT ROADWAY TRENCH RESTORATION DETAIL** NOT TO SCALE



NOTES:

1. SUBDRAINS MAY BE REQUIRED IN LANDSCAPE MEDIANS.
2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS. CEMENT CONTENT SHALL BE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

6 **MEDIAN CURB DETAIL** NOT TO SCALE



NOTES:

FOR INSTALLATION ADJACENT TO CONCRETE SIDEWALK OR RAMP ONLY, NOT ADJACENT TO ASPHALT ROADWAY

7 **6" VERTICAL CURB DETAIL** NOT TO SCALE

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

CIVIL DETAILS - 3

PROJ NO: 11225278
DRWN: RB CHKD: JS

C-503

SHEET 59 OF 107

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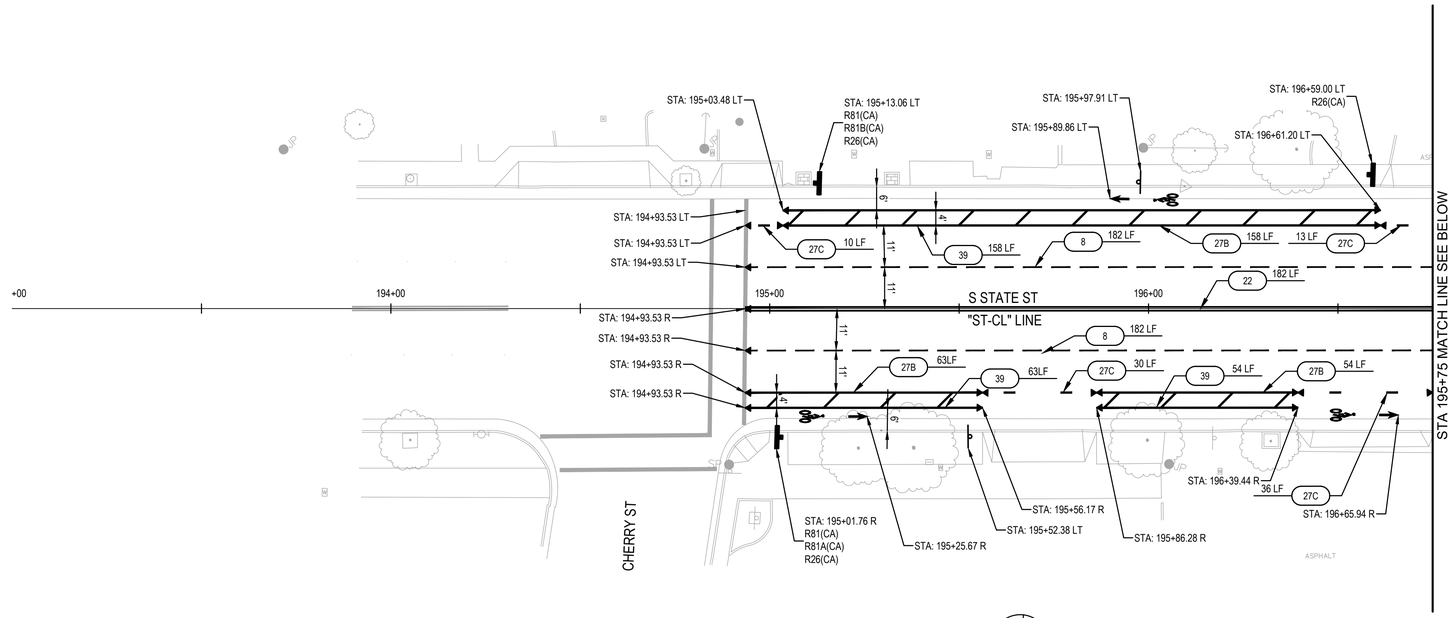
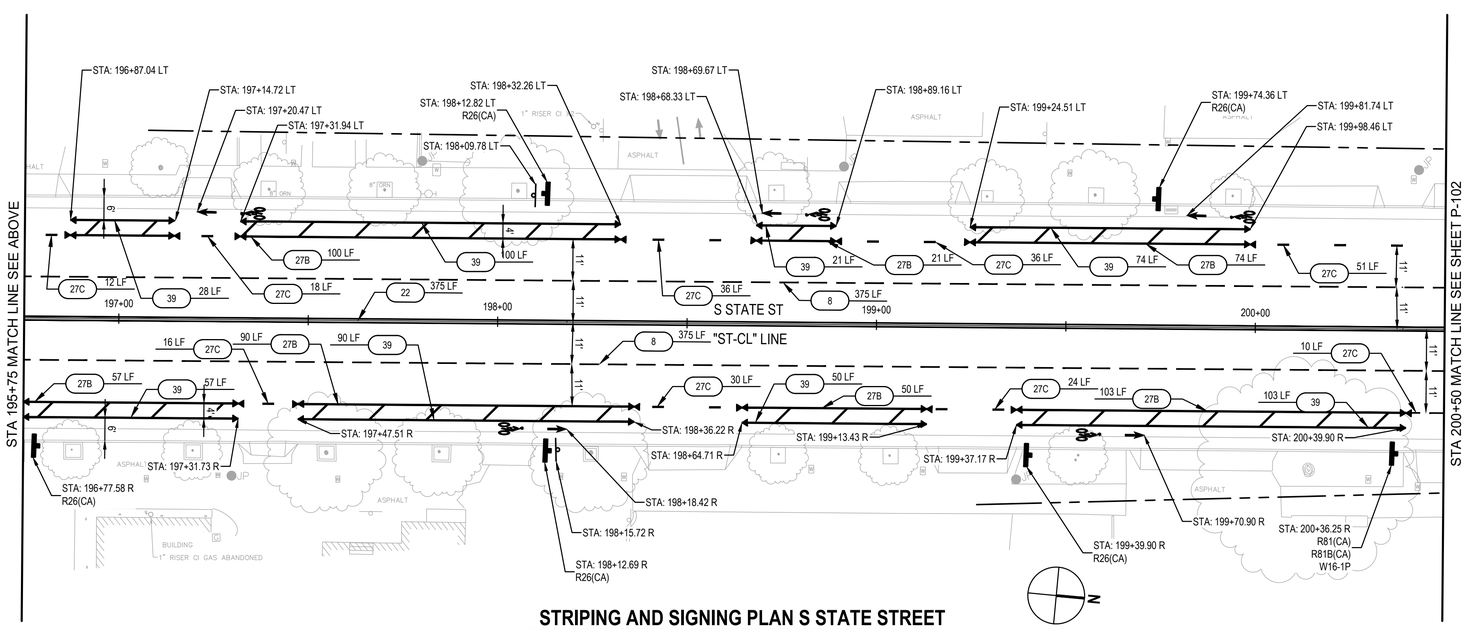


STRIPING AND SIGNING PLAN S STATE STREET

SCALE: 1" = 20'



STRIPING AND SIGNING PLAN S STATE STREET

SCALE: 1" = 20'

SHEET GENERAL NOTES

1. ALL STRIPING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CALTRANS STANDARD PLANS (CSP) AND CITY OF UKIAH STANDARDS.
2. ALL LEGENDS, CROSSWALKS, AND MARKINGS SHALL BE THERMOPLASTIC.
3. PAVEMENT MARKERS ARE TO BE REMOVED AND DISPOSED OF PRIOR TO COLD PLANING ASPHALT CONCRETE PAVEMENT.
4. ALL PAVEMENT THAT IS TO BE GROUND WILL HAVE STRIPING REPLACED AS SHOWN.
5. CONTRACTOR SHALL INVENTORY ALL PAINTED CURBS BEFORE EXISTING CURBS ARE DEMOLISHED. ALL GREEN, WHITE, RED, AND YELLOW CURB TO BE REMOVED IN THE STUDY AREA SHOULD BE REINSTALLED.
6. CONTRACTOR TO IDENTIFY ALL EXISTING FLAGPOLE SLEEVE LOCATIONS.

SHEET LEGEND

- TYPE I 10'-0" ARROW PER CSP A24A
- TYPE IV(L) ARROW PER CSP A24A
- TYPE VII(R) ARROW PER CSP A24A
- TYPE III(B) ARROW PER CSP A24B
- TYPE VI ARROW PER CSP A24A
- XX LF — PROVIDE STRIPING PER DETAILS A20A TO A20D OF CSP
- GREEN BIKE LANE DELINEATOR (COLOR E-F BIKE LANE GREEN) (METHYL METHACRYLATE)
- LIMIT OF STRIPING PATTERN
- CHANGE IN STRIPING PATTERN
- PARKING TEES, PER DETAIL (1 / P-501)
- EXISTING ROADSIDE SIGN TO BE REMOVED
- ROADSIDE SIGN - ONE POST, DETAIL (2 / P-501)
- SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. A24C
- BIKE LANE SYMBOL AND ARROW PER CALTRANS STD. A24C AND A24A
- 2' BUFFER, PER DETAIL (3 / P-501)

SHEET KEYNOTES

1. INSTALL 12" WHITE THERMOPLASTIC BASIC CROSSWALK PER CSP A24F
2. INSTALL CONTINENTAL CROSSWALK PER CSP A24F. 11' WIDE BARS @ 4' GAP
3. INSTALL 12" WHITE LIMIT LINE PER CSP A24E

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN S STATE ST STA. 193+00 - STA. 200+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-101

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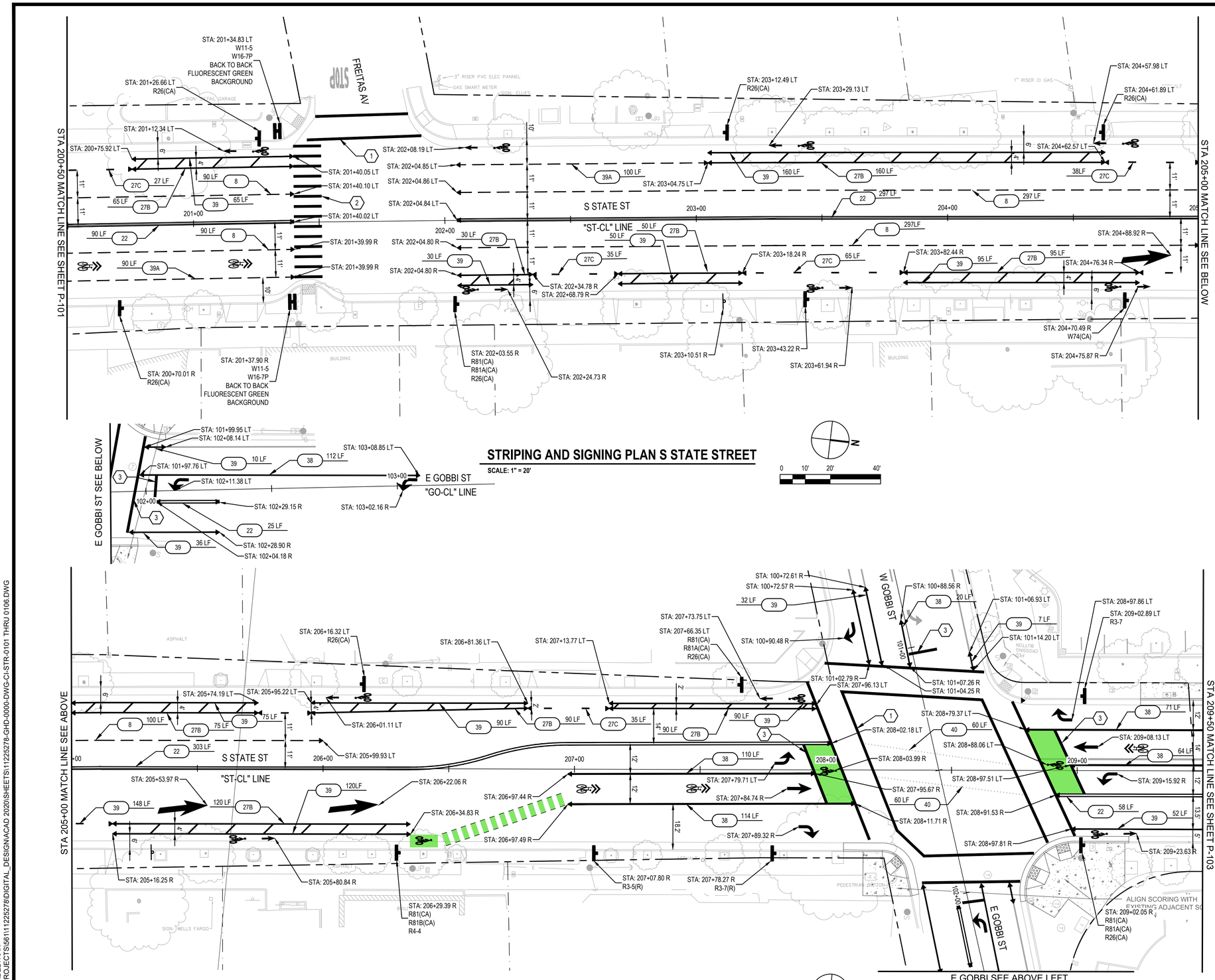

STRIPING AND SIGNING PLAN S STATE STREET

SCALE: 1" = 20'

STRIPING AND SIGNING PLAN S STATE STREET

SCALE: 1" = 20'

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN S STATE ST STA. 200+50 - STA. 209+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-102

SHEET 61 OF 107

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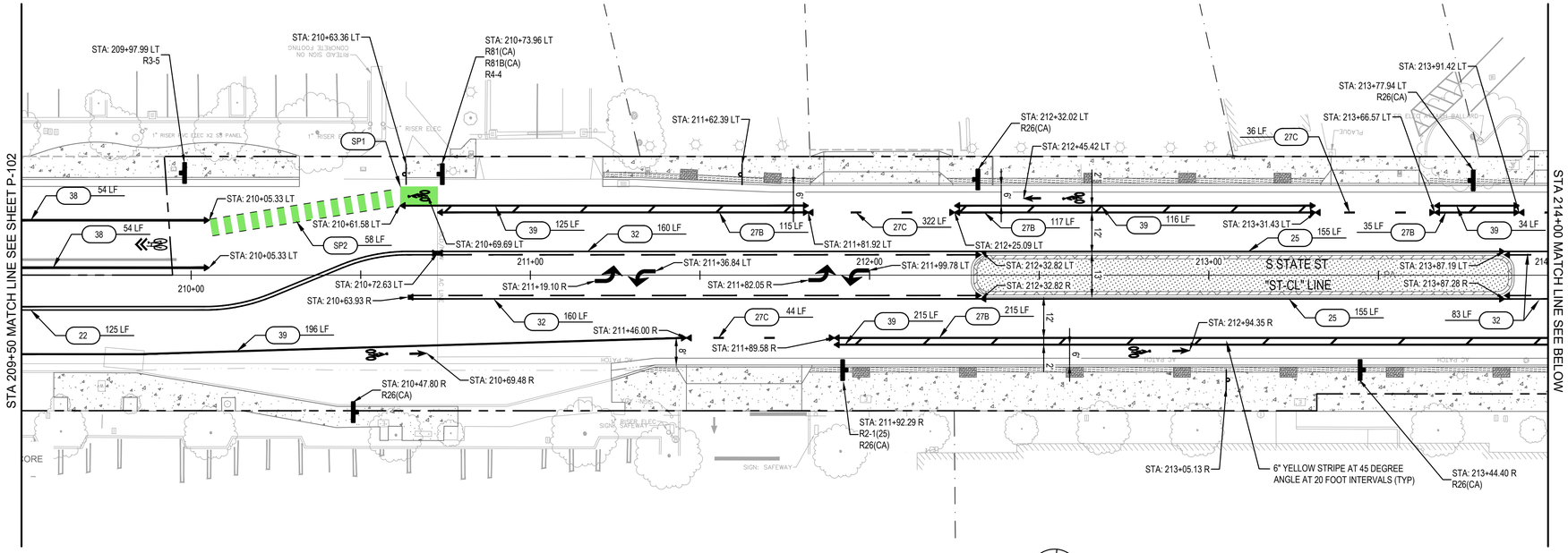
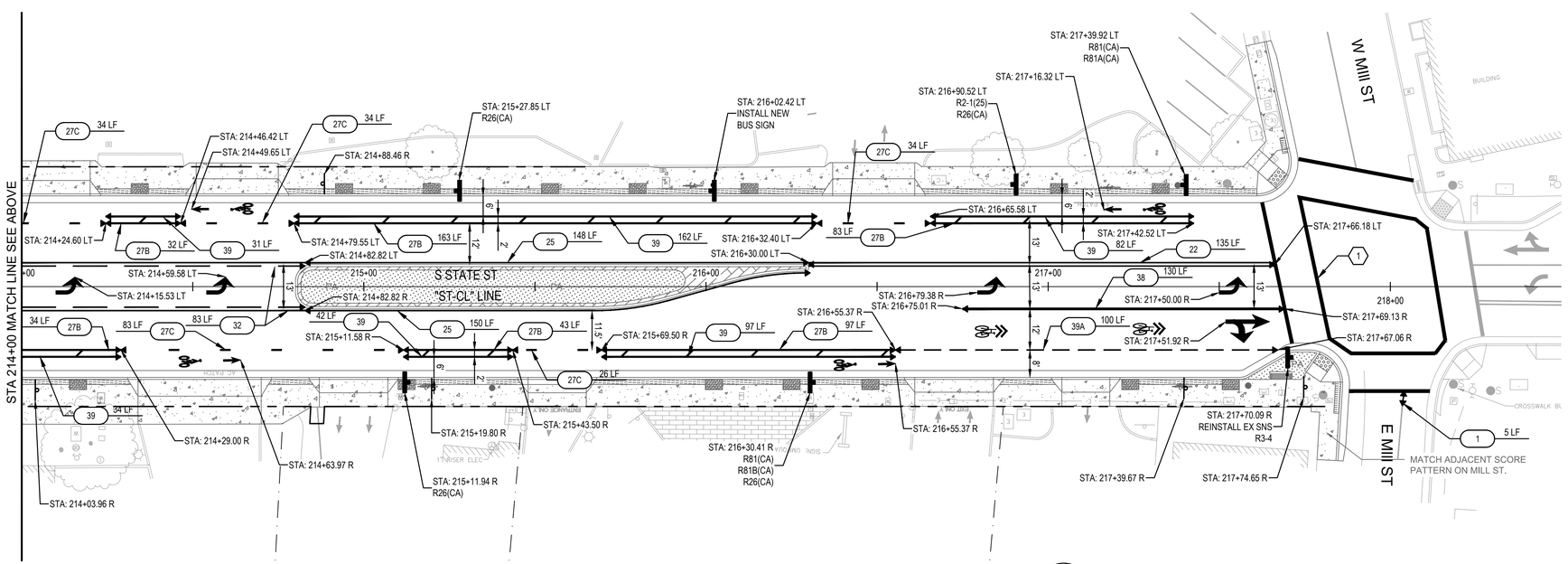


STRIPING AND SIGNING PLAN S STATE STREET

SCALE: 1" = 20'



STRIPING AND SIGNING PLAN S STATE STREET

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- CHANGE IN STRIPING PATTERN
- PARKING TEES, PER DETAIL 1/P-501
- EXISTING ROADSIDE SIGN TO BE REMOVED
- ROADSIDE SIGN - ONE POST, DETAIL 2/P-501
- SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. A24C
- BIKE LANE SYMBOL AND ARROW PER CALTRANS STD. A24C AND A24A
- 2' BUFFER, PER DETAIL 3/P-501

SHEET KEYNOTES

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN S STATE ST STA. 209+50 - STA. 218+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-103

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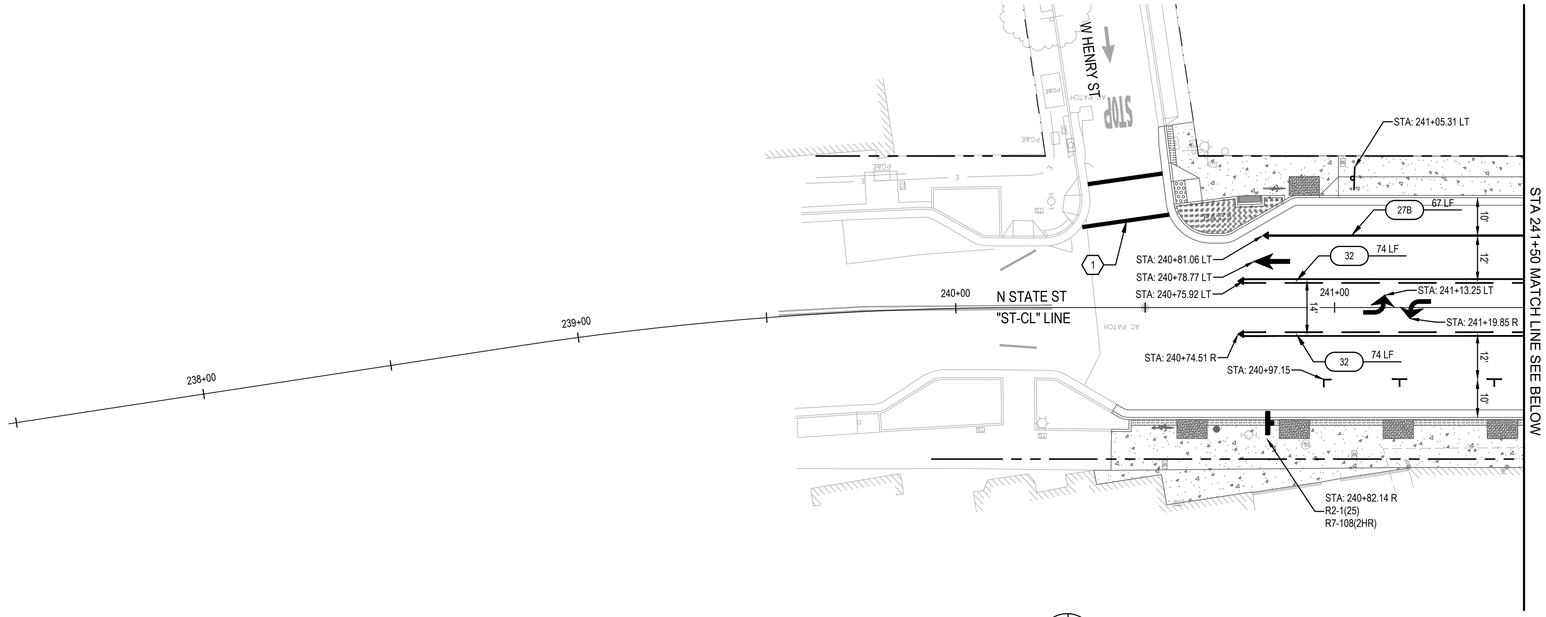
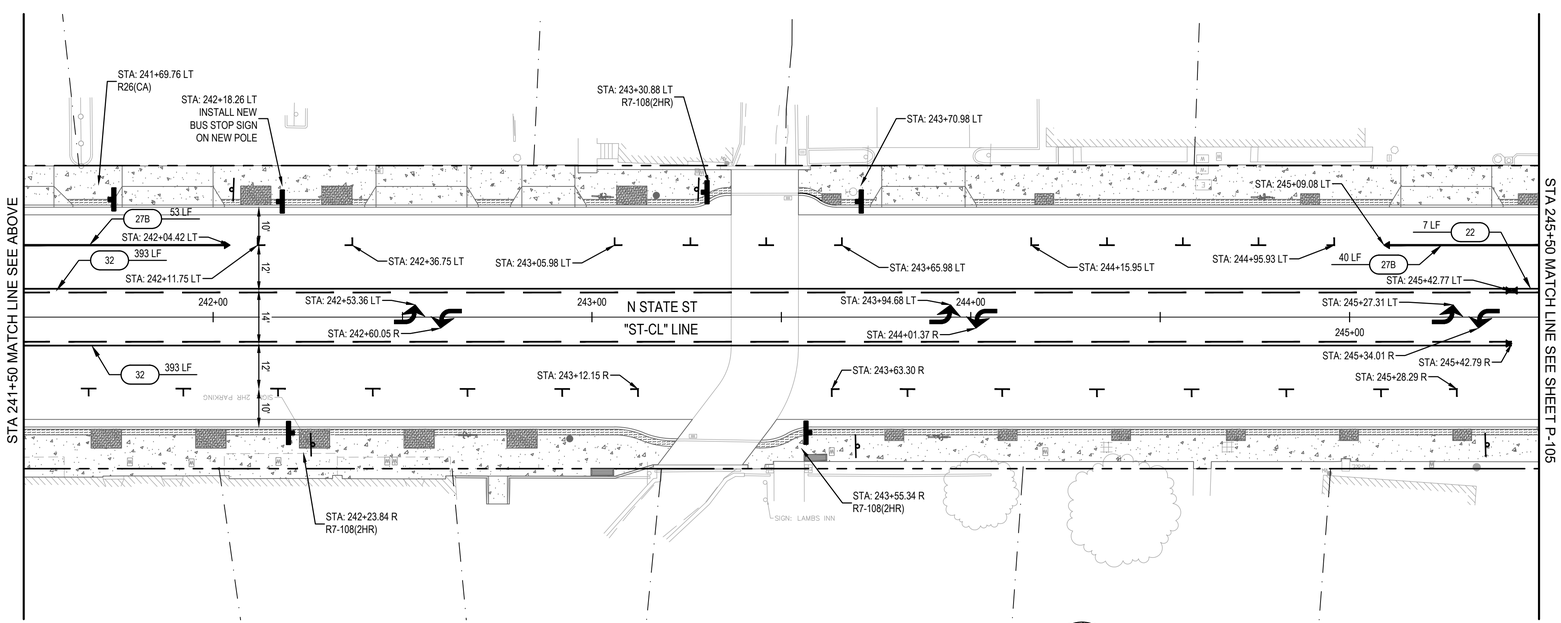


STRIPING AND SIGNING PLAN N STATE STREET

SCALE: 1" = 20'



STRIPING AND SIGNING PLAN N STATE STREET

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- 2' BUFFER, PER DETAIL (3 / P-501)

SHEET KEYNOTES

1. INSTALL 12" WHITE THERMOPLASTIC BASIC CROSSWALK PER CSP A24F
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3. INSTALL 12" WHITE LIMIT LINE PER CSP A24E

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN N STATE ST STA. 237+50 - STA. 245+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-104

SHEET 63 OF 107

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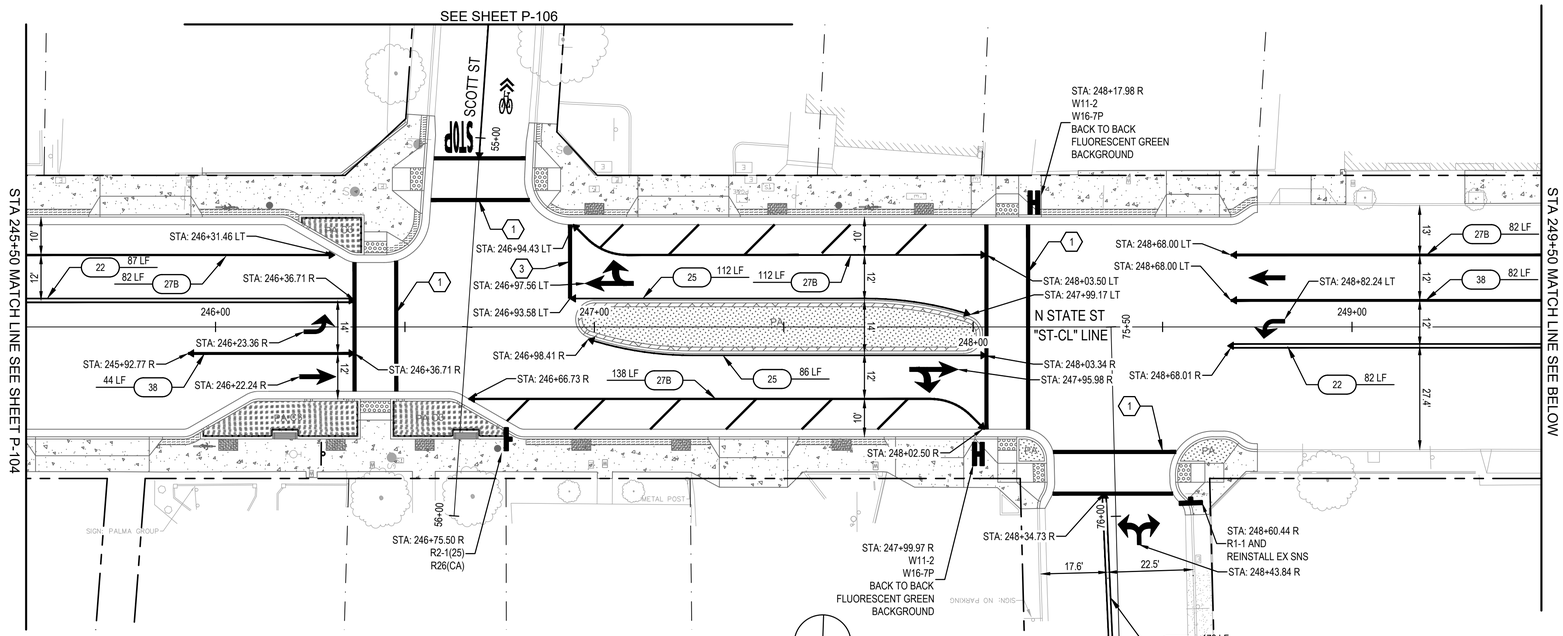
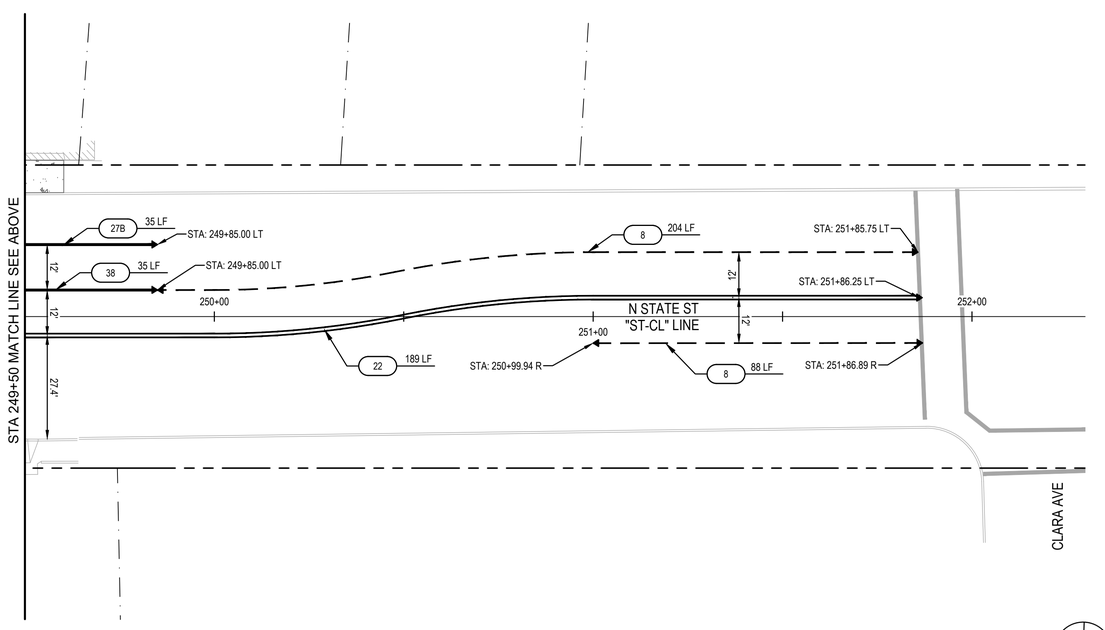


STRIPING AND SIGNING PLAN N STATE STREET

SCALE: 1" = 20'



STRIPING AND SIGNING PLAN N STATE STREET

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3. PAVEMENT MARKERS ARE TO BE REMOVED AND DISPOSED OF PRIOR TO COLD PLANING ASPHALT CONCRETE PAVEMENT.
4. ALL PAVEMENT THAT IS TO BE GROUND WILL HAVE STRIPING REPLACED AS SHOWN.
5. CONTRACTOR SHALL INVENTORY ALL PAINTED CURBS BEFORE EXISTING CURBS ARE DEMOLISHED. ALL GREEN, WHITE, RED, AND YELLOW CURB TO BE REMOVED IN THE STUDY AREA SHOULD BE REINSTALLED.
6. CONTRACTOR TO IDENTIFY ALL EXISTING FLAGPOLE SLEEVE LOCATIONS.

SHEET LEGEND

- TYPE I 10'-0" ARROW PER CSP A24A
- TYPE IV(L) ARROW PER CSP A24A
- TYPE VII(R) ARROW PER CSP A24A
- TYPE III(B) ARROW PER CSP A24B
- TYPE VI ARROW PER CSP A24A
- XX LF — PROVIDE STRIPING PER DETAILS A20A TO A20D OF CSP
- GREEN BIKE LANE DELINEATOR (COLOR E-F BIKE LANE GREEN) (METHYL METHACRYLATE)
- LIMIT OF STRIPING PATTERN
- CHANGE IN STRIPING PATTERN
- PARKING TEES, PER DETAIL (1 / P-501)
- EXISTING ROADSIDE SIGN TO BE REMOVED
- ROADSIDE SIGN - ONE POST, DETAIL (2 / P-501)
- SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. A24C
- BIKE LANE SYMBOL AND ARROW PER CALTRANS STD. A24C AND A24A
- 2' BUFFER, PER DETAIL (3 / P-501)

SHEET KEYNOTES

1. INSTALL 12" WHITE THERMOPLASTIC BASIC CROSSWALK PER CSP A24F
2. INSTALL CONTINENTAL CROSSWALK PER CSP A24F. 11' WIDE BARS @ 4' GAP
3. INSTALL 12" WHITE LIMIT LINE PER CSP A24E

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REGISTERED PROFESSIONAL ENGINEER — NATHAN J. SCHMAUS — No. C061952 — Exp. 9/30/23 — CIVIL — STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTION	ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN N STATE ST STA. 245+50 - STA. 253+50

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-105

SHEET 64 OF 107

2023-02-22 6:03 PM RBELTRAN
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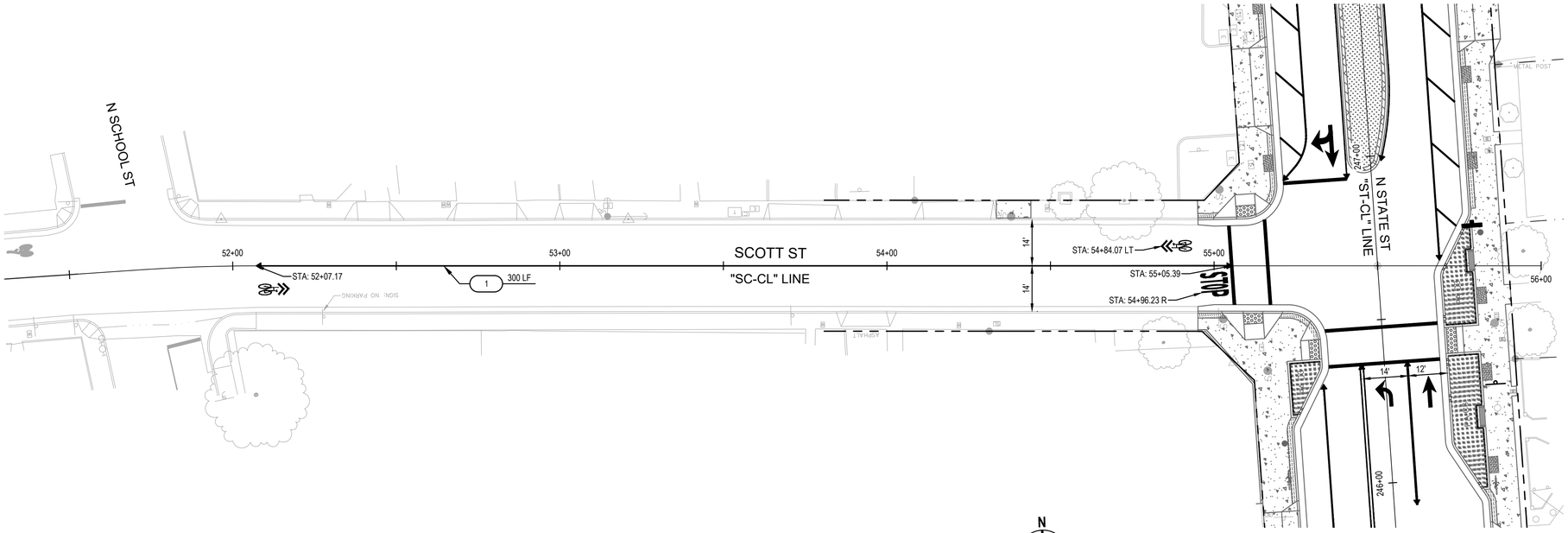

STRIPING AND SIGNING PLAN SCOTT STREET

SCALE: 1" = 20'

N

0 10' 20' 40'

SHEET GENERAL NOTES

1. ALL STRIPING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CALTRANS STANDARD PLANS (CSP) AND CITY OF UKIAH STANDARDS.
2. ALL LEGENDS, CROSSWALKS, AND MARKINGS SHALL BE THERMOPLASTIC.
3. PAVEMENT MARKERS ARE TO BE REMOVED AND DISPOSED OF PRIOR TO COLD PLANING ASPHALT CONCRETE PAVEMENT.
4. ALL PAVEMENT THAT IS TO BE GROUND WILL HAVE STRIPING REPLACED AS SHOWN.
5. CONTRACTOR SHALL INVENTORY ALL PAINTED CURBS BEFORE EXISTING CURBS ARE DEMOLISHED. ALL GREEN, WHITE, RED, AND YELLOW CURB TO BE REMOVED IN THE STUDY AREA SHOULD BE REINSTALLED.
6. CONTRACTOR TO IDENTIFY ALL EXISTING FLAGPOLE SLEEVE LOCATIONS.

SHEET LEGEND

- TYPE I 10'-0" ARROW PER CSP A24A
- TYPE IV(L) ARROW PER CSP A24A
- TYPE VII(R) ARROW PER CSP A24A
- TYPE III(B) ARROW PER CSP A24B
- TYPE VI ARROW PER CSP A24A
- XX LF — PROVIDE STRIPING PER DETAILS A20A TO A20D OF CSP
- GREEN BIKE LANE DELINEATOR (COLOR E-F BIKE LANE GREEN) (METHYL METHACRYLATE)
- LIMIT OF STRIPING PATTERN
- CHANGE IN STRIPING PATTERN
- PARKING TEES, PER DETAIL (1 / P-501)
- EXISTING ROADSIDE SIGN TO BE REMOVED
- ROADSIDE SIGN - ONE POST, DETAIL (2 / P-501)
- SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. A24C
- BIKE LANE SYMBOL AND ARROW PER CALTRANS STD. A24C AND A24A
- 2' BUFFER, PER DETAIL (3 / P-501)

SHEET KEYNOTES

1. INSTALL 12" WHITE THERMOPLASTIC BASIC CROSSWALK PER CSP A24F
2. INSTALL CONTINENTAL CROSSWALK PER CSP A24F. 11' WIDE BARS @ 4' GAP
3. INSTALL 12" WHITE LIMIT LINE PER CSP A24E

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN SCOTT ST STA. 51+30 - STA. 55+50

PROJ NO: 11225278

DRWN: RB CHKD: JS

P-106

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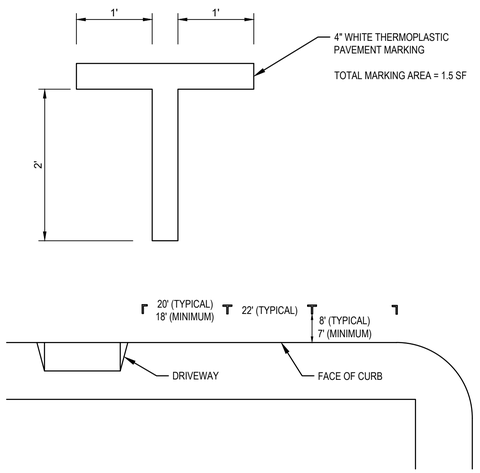
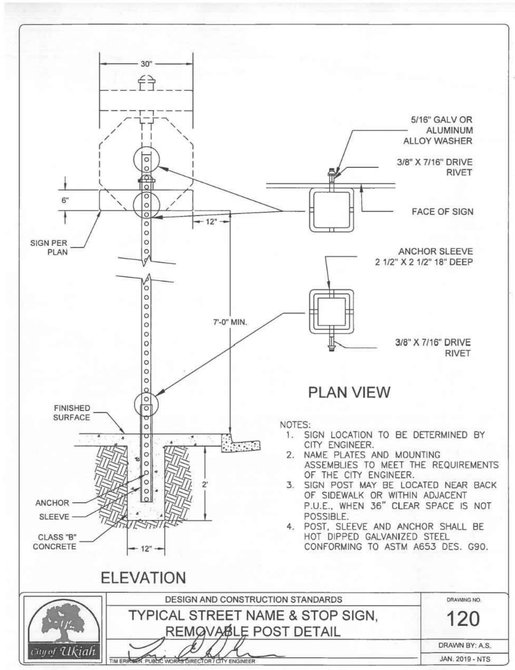
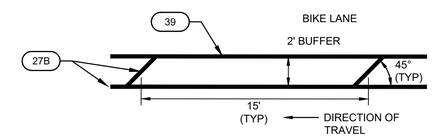


1 PARKING TEE DETAIL
NO SCALE



2 TYPICAL ROADSIDE SIGN INSTALLATION
NO SCALE



3 2' BUFFER DETAIL
NO SCALE

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

STRIPING AND SIGNING PLAN DETAILS

PROJ NO: 11225278
DRWN: RB CHKD: JS

P-501

SHEET 66 OF 107

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GENERAL NOTES:

1. ALL PULL BOXES SHALL BE No.5 UNLESS NOTED ON PLAN.
2. POLES, PULL BOXES AND DETECTOR POSITIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
3. LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
4. THE WORK ON THESE PLANS SHALL BE PERFORMED IN CONFORMANCE WITH THE LATEST EDITIONS OF THE CALTRANS STANDARD PLANS, STANDARD SPECIFICATIONS, SIGN SPECIFICATION SHEETS, CITY CONSTRUCTION STANDARDS, AND THE CALIFORNIA MUTCD.
5. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
6. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH ALL UTILITY COMPANIES PRIOR TO START OF WORK.
7. PULL BOXES FOR SIGNAL STANDARDS SHALL BE LOCATED WITHIN FIVE FEET OF THE STANDARD.
8. ALL SIGNALS SHALL HAVE 12-INCH LED INDICATIONS, WITH TUNNEL VISORS AND BACKPLATES.
9. CONTRACTOR SHALL FURNISH AND INSTALL FOUNDATIONS AND ALL ANCILLARY HARDWARE (INCLUDING BOLTS, NUTS, MOUNTINGS, ETC.) FOR A COMPLETE SIGNAL INSTALLATION PER THESE PLANS.
10. RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY OF UKIAH AT THE CLOSE OF THE PROJECT.
11. CONTRACTOR SHALL DELIVER ALL SALVAGED SIGNAL EQUIPMENT TO THE CITY OF UKIAH PUBLIC WORKS CORPORATION YARD AT 1320 AIRPORT ROAD. CONTACT (707) 463-6296 TO ARRANGE DELIVERY.
12. CONTRACTOR SHALL PAINT ALL POLE, SIGNAL HOUSINGS, VISORS AND BACK PLATES.

PROJECT NOTES:

1 RS EXISTING CONTROLLER CABINET AND EQUIPMENT COMPLETE. DISCONNECT ALL CABLES AND PULL BACK TO HOME RUN PULL BOX.

2 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. COORDINATE DETECTION ZONES WITH ENGINEER.

3 AB EXISTING DETECTOR LOOPS.

4 INSTALL TYPE "A" DETECTOR.

5 ALL EXISTING PEDESTRIAN SIGNALS SHALL BE REPLACED. ALL PEDESTRIAN SIGNALS SHALL BE LED WITH COUNTDOWN HAND-MAN INDICATIONS.

6 ALL EXISTING PEDESTRIAN PUSH BUTTONS SHALL BE REPLACED. ALL PEDESTRIAN PUSH BUTTONS SHALL BE POLARA NAVIGATOR, OR APPROVED EQUAL.

7 EQUIPMENT TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

8 FURNISH AND INSTALL NEW TYPE III-AF SERVICE EQUIPMENT ENCLOSURE.

9 FURNISH AND INSTALL NEW 2070E CONTROLLER WITH 2033 SOFTWARE PROGRAM, NEW SIDE-MOUNTED BATTERY BACKUP SYSTEM, AND 332L CABINET. PULL ALL EXISTING CABLES TO NEW CABINET AND CONNECT PER INTENDED OPERATION.

STANDARD NOTES:

DH DETECTOR HANDHOLE

CB INSTALL CONDUIT INTO EXISTING PULL BOX

AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS

FA FOUNDATION TO BE ABANDONED

RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR

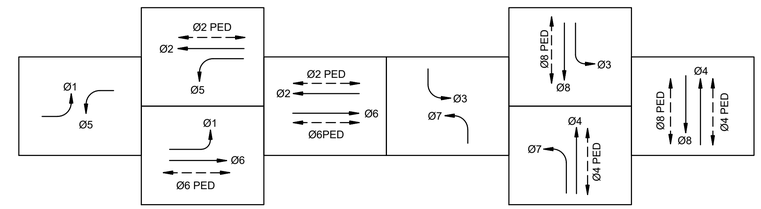
RS REMOVE AND SALVAGE EQUIPMENT

ABBREVIATIONS:

(E)	EXISTING
PED	PEDESTRIAN SIGNAL HEAD
PPB	PEDESTRIAN PUSH BUTTON
R/W	RIGHT OF WAY

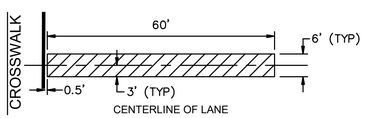
N

0 10' 20' 40'



STEADY DEMAND SEQUENCE

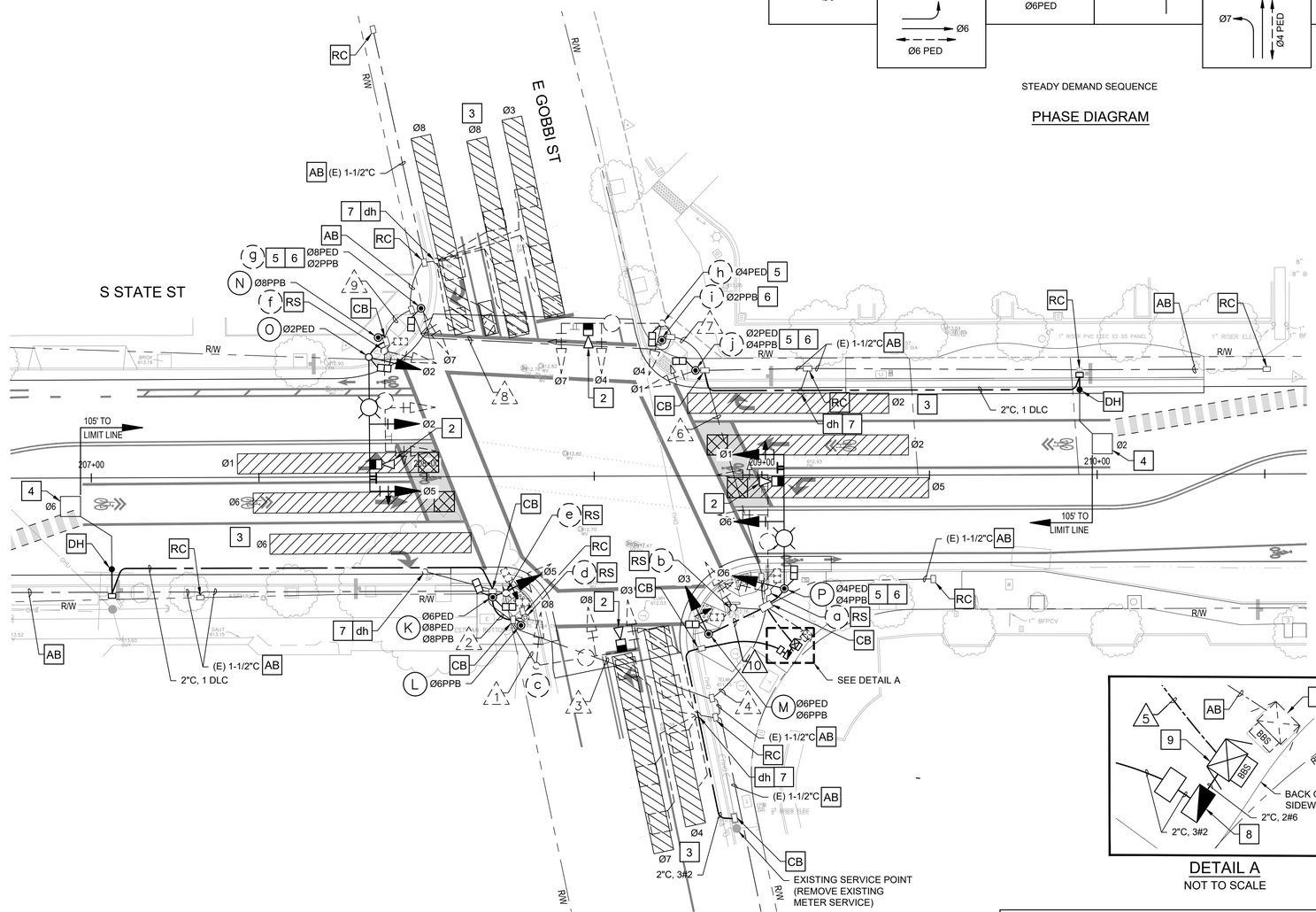
PHASE DIAGRAM



VIDEO DETECTION ZONE
(LIMIT LINE DETECTION)

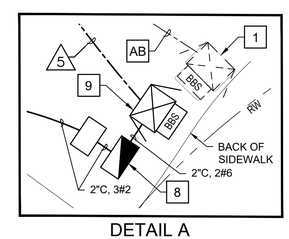
LEGEND:

NEW		EXISTING
	SIGNAL EQUIPMENT	
	STREET LIGHT	
	ROAD SIGN	
	STREET NAME SIGN	
	CONTROLLER ASSEMBLY	
	PEDESTRIAN HEAD	
	SERVICE ENCLOSURE	
	POLE AND PEDESTRIAN PUSH BUTTON	
	PULL BOX	
DH	DETECTOR HANDHOLE	dh
	TYPE "A" DETECTOR LOOP	
	TYPE "D" DETECTOR LOOP	
	VIDEO DETECTION ZONE CAMERA	
	VIDEO VEHICLE DETECTION ZONE	
	VIDEO BYCYCLE DETECTION ZONE	
	TRAFFIC SIGNAL CONDUIT	



TRAFFIC SIGNAL - IMPROVEMENT PLAN

SCALE: 1" = 20'



DETAIL A
NOT TO SCALE

NOTE: LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

TRAFFIC SIGNAL MODIFICATION PLAN
STATE STREET AT GOBBI STREET

PROJ NO: 11225278

DRWN: RB CHKD: JS

T-101

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CONDUCTOR SCHEDULE

AWG OR CABLE	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
#14	ø1 SIGNALS					6	3										
	ø2 SIGNALS					3	3	3	3	3							
	ø3 SIGNALS	3		3	3	3					3						
	ø4 SIGNALS					3	3	3									
	ø5 SIGNALS		3	3	3	6	3	3	3	3							
	ø6 SIGNALS					3											
	ø7 SIGNALS					3	3	3	3								
	ø8 SIGNALS	3		3	3	3											
	ø2 PED					2	2	2	2								
	ø4 PED					4	2	2									
	ø6 PED		2	2	2	2					2						
	ø8 PED		2	2	2	4	2	2	2								
	ø2 PPB					1	1	1	1								
	ø4 PPB					2	1										
	ø6 PPB	1		1	1	1					1						
	ø8 PPB		1	1	1	2	1	1	1								
	PPB COMMON	1	1	1	1	2	1	1	1		1						
	SPARES			3	3	6	3	3	3								
	TOTAL #14 CONDUCTORS	10	9	19	19	56	28	24	19	6	7						
	VIDEO DETECTION CAMERA	1		1		4	2	2	1	1							
#8	SAFETY LIGHTING	2		2	2	–	2	2	2	2							
	SIGNAL NEUTRAL	1	1	1	1	2	1	1	1	1	1						
	TOTAL #8 CONDUCTORS	3	1	3	3	2	3	3	3	3	1						
DLC	ø1 DETECTORS			~~1~~	~~1~~	~~1~~											
	ø2 DETECTORS					~~2~~ 1	~~2~~ 1										
	ø3 DETECTORS					~~1~~	~~1~~	~~1~~									
	ø4 DETECTORS				~~1~~	~~1~~											
	ø5 DETECTORS					~~1~~											
	ø6 DETECTORS			~~2~~	~~2~~	~~2~~											
	ø7 DETECTORS				~~1~~	~~1~~											
	ø8 DETECTORS					~~2~~ 1	~~2~~ 1	~~2~~ 1									
	TOTAL			~~3~~	~~5~~	~~11~~ 2	~~5~~ 2	~~3~~ 1									
CONDUIT SIZE		2	1-1/2	2-1/2	2-1/2	3	3	2	3	2	2						

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED
~~3~~ CONDUCTORS AND/OR CABLES TO BE REMOVED (TYPICAL)

EQUIPMENT AND POLE SCHEDULE

NO.	STANDARD TYPE	STANDARD SIG. MA (FEET)	STANDARD LUM. MA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED. SIGNAL MOUNTING	PPB Ø	LUMINAIRE WATTAGE (HPS)	SPECIAL REQUIREMENTS
a	24-3-80	35	15	MAT MAS	SV-1-T	SP-1-T	4	250 W	RS POLE AND EQUIPMENT FA FOUNDATION
b	1A	–	–	–	TV-1-T	SP-1-T	6	–	RS POLE AND EQUIPMENT FA FOUNDATION
c	19-4-80	30	15	MAT MAS	SV-1-T	–	–	250 W	
d	PPB	–	–	–	–	–	6	–	RS POLE AND EQUIPMENT FA FOUNDATION
e	1A	–	–	–	TV-1-T	SP-2-T	8	–	RS POLE AND EQUIPMENT FA FOUNDATION
f	19-4-80	30	15	MAT MAS	SV-1-T	SP-1-T	8	250 W	RS POLE/MAST ARM AND EQUIPMENT FA FOUNDATION
g	1A	–	–	–	TV-1-T	SP-2-T	2	–	
h	19-3-80	30	15	MAT MAS	SV-1-T	SP-1-T	2	250 W	
i	PPB	–	–	–	–	–	2	–	
j	1A	–	–	–	TV-1-T	SP-1-T	4	–	
K	1A	–	–	–	TV-1-T	SP-2-T	8	–	
L	PPB	–	–	–	–	–	6	–	
M	1A	–	–	–	TV-1-T	SP-1-T	6	–	
N	PPB	–	–	–	–	–	8	–	
O	26-4-100	40	15	MAT MAS	SV-1-T	SP-1-T	–	250 W	INSTALL SNS AND MOUNTING ON SIGNAL MAST ARM
P	26-3-100	40	15	MAT MAS	SV-1-T	SP-1-T	4	250 W	INSTALL SNS AND MOUNTING ON SIGNAL MAST ARM. INSTALL M4-5, G26-2 (CA), AND M6-1 ON SIGNAL POLE.

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED

NOTE: LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

TRAFFIC SIGNAL SCHEDULE TABLES
STATE STREET AT GOBBI STREET

PROJ NO: 11225278
DRWN: RB CHKD: JS

T-102

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GENERAL NOTES:

1. ALL PULL BOXES SHALL BE No.5 UNLESS NOTED ON PLAN.
2. POLES, PULL BOXES AND DETECTOR POSITIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
3. LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
4. THE WORK ON THESE PLANS SHALL BE PERFORMED IN CONFORMANCE WITH THE LATEST EDITIONS OF THE CALTRANS STANDARD PLANS, STANDARD SPECIFICATIONS, SIGN SPECIFICATION SHEETS, CITY CONSTRUCTION STANDARDS, AND THE CALIFORNIA MUTCD.
5. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
6. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH ALL UTILITY COMPANIES PRIOR TO START OF WORK.
7. PULL BOXES FOR SIGNAL STANDARDS SHALL BE LOCATED WITHIN FIVE FEET OF THE STANDARD.
8. ALL SIGNALS SHALL HAVE 12-INCH LED INDICATIONS, WITH TUNNEL VISORS AND BACKPLATES.
9. CONTRACTOR SHALL FURNISH AND INSTALL FOUNDATIONS AND ALL ANCILLARY HARDWARE (INCLUDING BOLTS, NUTS, MOUNTINGS, ETC.) FOR A COMPLETE SIGNAL INSTALLATION PER THESE PLANS.
10. RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY OF UKIAH AT THE CLOSE OF THE PROJECT.
11. CONTRACTOR SHALL DELIVER ALL SALVAGED SIGNAL EQUIPMENT TO THE CITY OF UKIAH PUBLIC WORKS CORPORATION YARD AT 1320 AIRPORT ROAD. CONTACT (707) 463-6296 TO ARRANGE DELIVERY.
12. CONTRACTOR SHALL PAINT ALL POLE, SIGNAL HOUSINGS, VISORS AND BACK PLATES.

PROJECT NOTES:

1. PROGRAM NEW VIDEO DETECTION ZONE AND ACTIVATE EXISTING CAMERA.
2. RL EXISTING PEDESTRIAN PUSH BUTTONS. ALL PEDESTRIAN PUSH BUTTONS SHALL BE POLARA NAVIGATOR, OR APPROVED EQUAL.
3. RS EXISTING CONTROLLER CABINET AND EQUIPMENT COMPLETE. DISCONNECT ALL CABLES AND PULL BACK TO HOME RUN PULL BOX.
4. FURNISH AND INSTALL NEW 2070E CONTROLLER WITH 2033 SOFTWARE PROGRAM, NEW SIDE-MOUNTED BATTERY BACKUP SYSTEM, AND 332L CABINET. PULL ALL EXISTING CABLES TO NEW CABINET AND CONNECT PER INTENDED OPERATION.
5. FURNISH AND INSTALL NEW TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.

STANDARD NOTES:

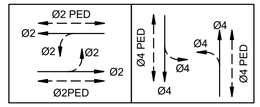
- DH DETECTOR HANDHOLE
- CB INSTALL CONDUIT INTO EXISTING PULL BOX
- RS REMOVE AND SALVAGE EQUIPMENT

LEGEND:

NEW		EXISTING
	SIGNAL EQUIPMENT	
	STREET LIGHT	
	ROAD SIGN	
	STREET NAME SIGN	
	CONTROLLER ASSEMBLY	
	PEDESTRIAN HEAD	
	SERVICE ENCLOSURE	
	POLE AND PEDESTRIAN PUSH BUTTON	
	PULL BOX	
DH	DETECTOR HANDHOLE	dh
	TYPE "A" DETECTOR LOOP	
	TYPE "D" DETECTOR LOOP	
	VIDEO DETECTION ZONE CAMERA	
	VIDEO VEHICLE DETECTION ZONE	
	VIDEO BYCYCLE DETECTION ZONE	
	TRAFFIC SIGNAL CONDUIT	

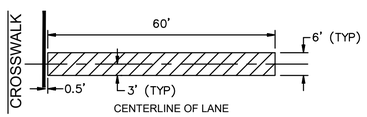
ABBREVIATIONS:

BBS	BATTERY BACKUP SYSTEM
PED	PEDESTRIAN SIGNAL HEAD
PPB	PEDESTRIAN PUSH BUTTON

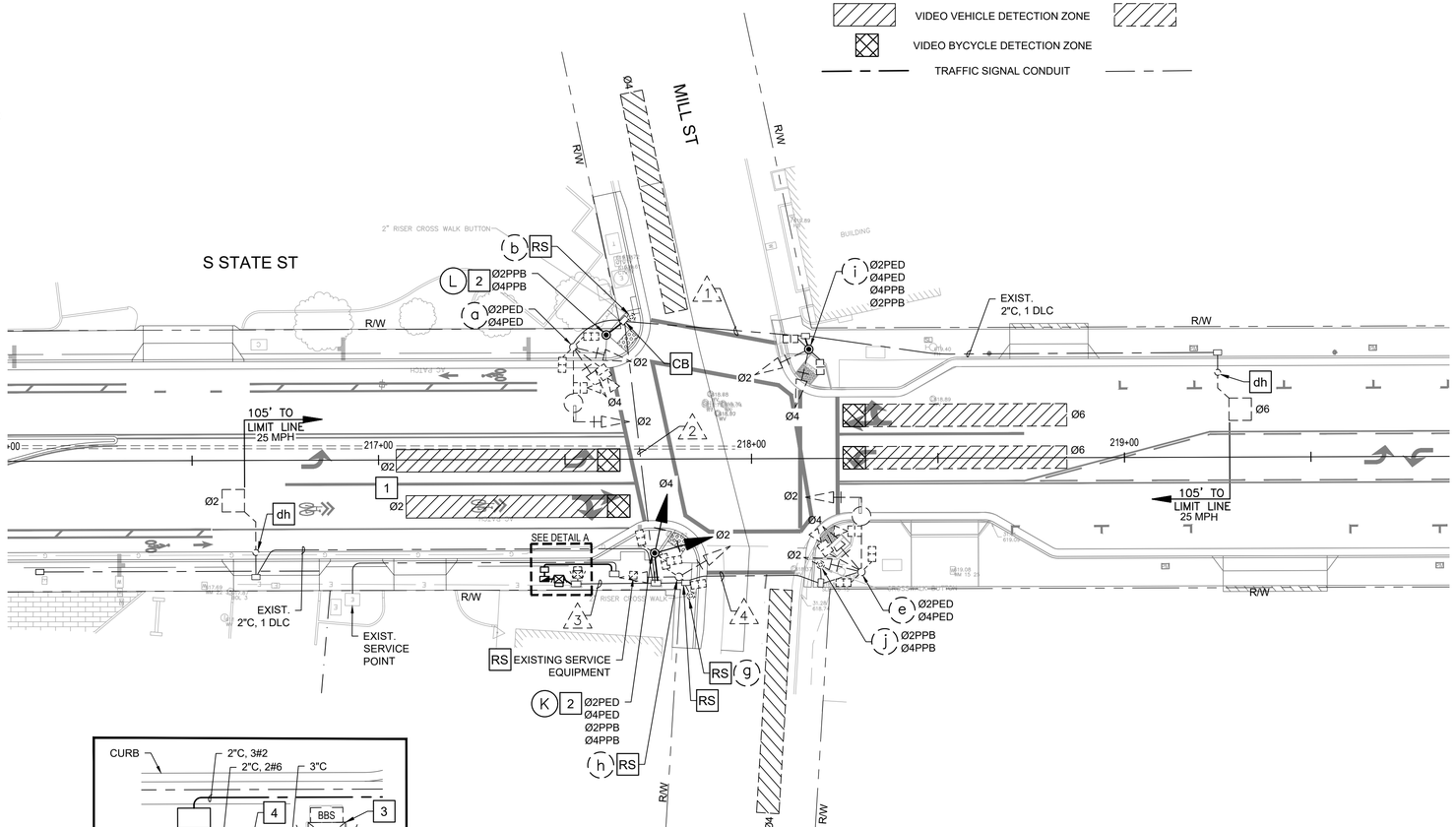


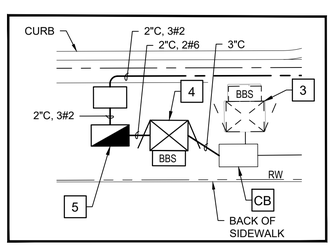
STEADY DEMAND SEQUENCE

PHASE DIAGRAM



VIDEO DETECTION ZONE
(LIMIT LINE DETECTION)





DETAIL A
NOT TO SCALE

TRAFFIC SIGNAL - IMPROVEMENT PLAN

SCALE: 1" = 20'

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

NOTE: LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

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No. C26192
Exp. 9/30/23
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STATE OF CALIFORNIA

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0 1"

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

TRAFFIC SIGNAL MODIFICATION PLAN
S STATE STREET AT MILL STREET

PROJ NO: 11225278
DRWN: RB CHKD: JS

T-103

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CONDUCTOR SCHEDULE

AWG OR CABLE	CIRCUIT	RUNS 1	RUNS 2	RUNS 3	RUNS 4
#14	ø2 SIGNALS	3	3	6	3
	ø4 SIGNALS	3	3	6	3
	ø2 PED	2	2	4	2
	ø4 PED	2	2	4	2
	ø2 PPB	3	3	6	3
	ø4 PPB	3	3	6	3
	12 V NEUTRAL	1	1	2	1
	SPARES	3	3	3	3
	TOTAL #14 CONDUCTORS	20	20	37	20
#10	LUMINAIRES		2		2
	120 V NEUTRAL	1	1	2	1
	TOTAL #10 CONDUCTORS	1	3	2	3
#8	SIGNAL SERVICE			3	
	VIDEO DETECTION CAMERA		2	4	2
SIC	INTERCONNECT			2	
DLC	ø2 DETECTORS	~~2~~	~~2~~	~~2~~ 1	
	ø4 DETECTORS		~~1~~	~~2~~	~~1~~
	ø6 DETECTORS	1	1	1	
	TOTAL	~~2~~ 1	~~3~~ 1	~~4~~ 2	~~1~~
CONDUIT SIZE		2"	2-1/2"	3"	2"

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED
~~3~~ CONDUCTORS AND/OR CABLES TO BE REMOVED (TYPICAL)

EQUIPMENT AND POLE SCHEDULE

NO.	STANDARD TYPE	STANDARD SIG. MA (FEET)	STANDARD LUM. MA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED. SIGNAL MOUNTING	PPB Ø	LUMINAIRE WATTAGE (HPS)	SPECIAL REQUIREMENTS *
a	XVII-A	20	12	MAT	SV-1 SV-1	SP02	4	200 W	RL EXISTING ø4 PEDESTRIAN PUSH BUTTON TO POLE L
b	PPB POST	–	–	–	–	–	2	–	RS POLE FA FOUNDATION RL EXISTING ø2 PEDESTRIAN PUSH BUTTON TO POLE L
e	XVII-A	20	12	MAT	SV-1 SV-1	–	–	200 W	
g	PPB POST	–	–	–	–	–	2	–	RS POLE FA FOUNDATION RL EXISTING ø2 PEDESTRIAN PUSH BUTTON TO POLE K
h	1-A	–	–	–	TV-2-T	SV-1 SV-1	2	–	RL EXISTING ø4 PEDESTRIAN PUSH BUTTON AND PEDESTRIAN SIGNAL HEADS TO POLE K RS POLE AND EQUIPMENT FA FOUNDATION
i	1-A	–	–	–	TV-2-T	SP-2-T	2 4	–	
j	PPB POST	–	–	–	–	–	2 4	–	
K	1-A	–	–	–	TV-2-T	SV-1 SV-1	2 4	–	RL EXISTING ø4 PEDESTRIAN PUSH BUTTON AND PEDESTRIAN SIGNAL HEADS TO POLE h RL EXISTING ø2 PEDESTRIAN PUSH BUTTON FROM POLE g
L	PPB POST	–	–	–	–	–	4	–	RL EXISTING ø2 AND ø4 PEDESTRIAN PUSH BUTTONS FROM POLE a AND POLE b

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

TRAFFIC SIGNAL SCHEDULE TABLES
S STATE STREET AT MILL STREET

PROJ NO: 11225278
DRWN: RB CHKD: JS

T-104

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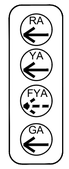
GENERAL NOTES:

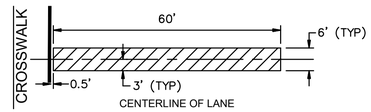
1. ALL PULL BOXES SHALL BE No.5 UNLESS NOTED ON PLAN.
2. POLES, PULL BOXES AND DETECTOR POSITIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
3. LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
4. THE WORK ON THESE PLANS SHALL BE PERFORMED IN CONFORMANCE WITH THE LATEST EDITIONS OF THE CALTRANS STANDARD PLANS, STANDARD SPECIFICATIONS, SIGN SPECIFICATION SHEETS, CITY CONSTRUCTION STANDARDS, AND THE CALIFORNIA MUTCD.
5. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
6. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH ALL UTILITY COMPANIES PRIOR TO START OF WORK.
7. PULL BOXES FOR SIGNAL STANDARDS SHALL BE LOCATED WITHIN FIVE FEET OF THE STANDARD.
8. ALL SIGNALS SHALL HAVE 12-INCH LED INDICATIONS, WITH TUNNEL VISORS AND BACKPLATES.
9. CONTRACTOR SHALL FURNISH AND INSTALL FOUNDATIONS AND ALL ANCILLARY HARDWARE (INCLUDING BOLTS, NUTS, MOUNTINGS, ETC.) FOR A COMPLETE SIGNAL INSTALLATION PER THESE PLANS.
10. RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY OF UKIAH AT THE CLOSE OF THE PROJECT.
11. CONTRACTOR SHALL DELIVER ALL SALVAGED SIGNAL EQUIPMENT TO THE CITY OF UKIAH PUBLIC WORKS CORPORATION YARD AT 1320 AIRPORT ROAD. CONTACT (707) 463-6296 TO ARRANGE DELIVERY.
12. CONTRACTOR SHALL PAINT ALL POLE, SIGNAL HOUSINGS, VISORS AND BACK PLATES.



4-SECTION

DETAIL A

R10-12(MOD)



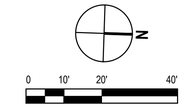
VIDEO DETECTION ZONE
(LIMIT LINE DETECTION)

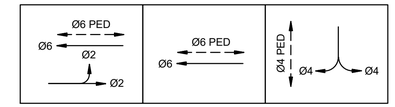
LEGEND:

NEW		EXISTING
	SIGNAL EQUIPMENT	
	STREET LIGHT	
	ROAD SIGN	
	STREET NAME SIGN	
	CONTROLLER ASSEMBLY	
	PEDESTRIAN HEAD	
	SERVICE ENCLOSURE	
	POLE AND PEDESTRIAN PUSH BUTTON	
	PULL BOX	
DH	DETECTOR HANDHOLE	dh
	TYPE "A" DETECTOR LOOP	
	TYPE "D" DETECTOR LOOP	
	VIDEO DETECTION ZONE CAMERA	
	VIDEO VEHICLE DETECTION ZONE	
	VIDEO BYCYCLE DETECTION ZONE	
	TRAFFIC SIGNAL CONDUIT	

ABBREVIATIONS:

BBS	BATTERY BACKUP SYSTEM
PED	PEDESTRIAN SIGNAL HEAD
PPB	PEDESTRIAN PUSH BUTTON
RA	RED ARROW
YA	YELLOW ARROW
FYA	FLASHING YELLOW ARROW
GA	GREEN ARROW



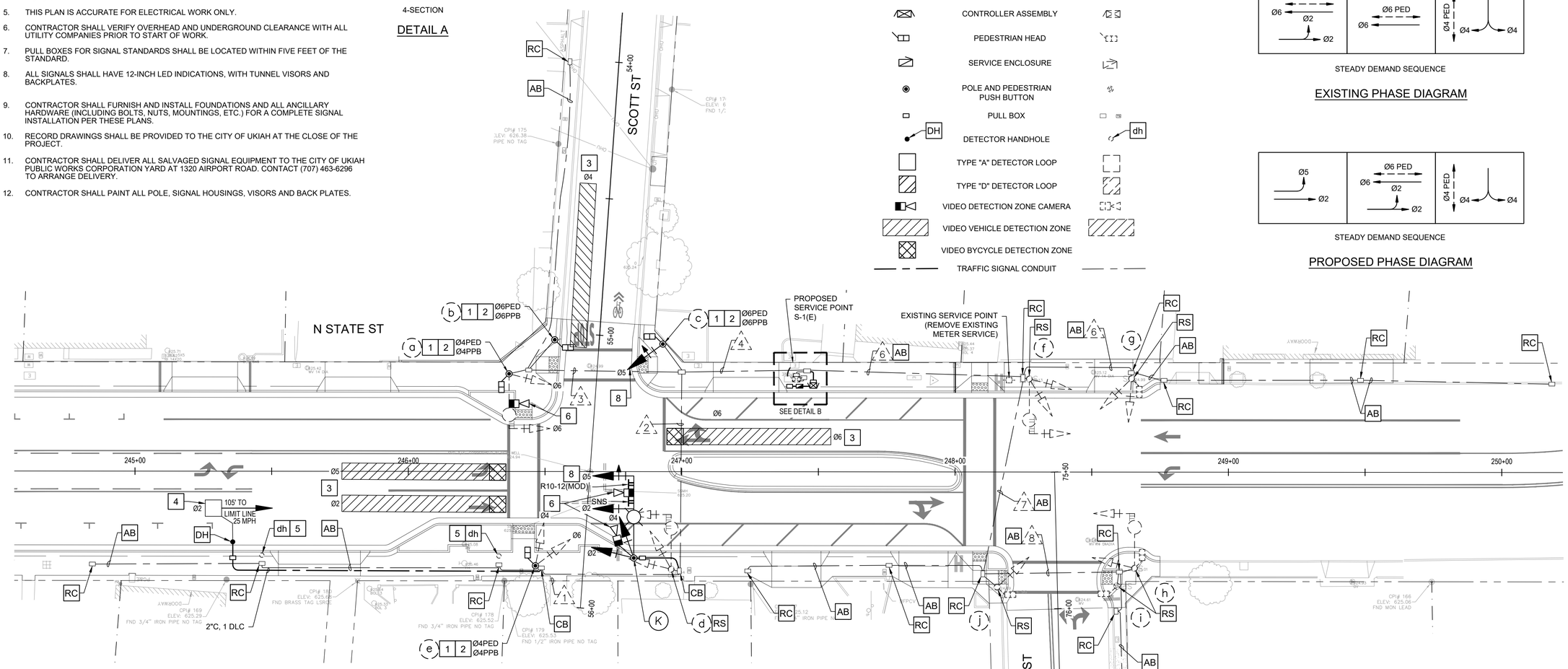


STEADY DEMAND SEQUENCE

EXISTING PHASE DIAGRAM

STEADY DEMAND SEQUENCE

PROPOSED PHASE DIAGRAM

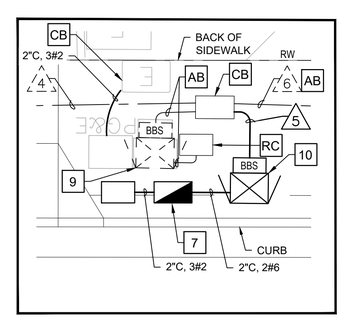


PROJECT NOTES:

1. ALL EXISTING PEDESTRIAN SIGNALS SHALL BE REPLACED. ALL PEDESTRIAN SIGNALS SHALL BE LED WITH COUNTDOWN HAND-MAN INDICATIONS.
2. ALL EXISTING PEDESTRIAN PUSH BUTTONS SHALL BE REPLACED. ALL PEDESTRIAN PUSH BUTTONS SHALL BE POLARA NAVIGATOR, OR APPROVED EQUAL.
3. AB EXISTING DETECTOR LOOPS.
4. INSTALL TYPE "A" DETECTOR.
5. EQUIPMENT TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
6. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SIGNAL POLE OR MAST ARM. COORDINATE DETECTION ZONES WITH ENGINEER.
7. FURNISH AND INSTALL NEW TYPE III-AF SERVICE EQUIPMENT ENCLOSURE.
8. FURNISH AND INSTALL 4-SECTION SIGNAL HEAD. SEE DETAIL A THIS SHEET.
9. REMOVE AND SALVAGE EXISTING CONTROLLER CABINET AND EQUIPMENT COMPLETE. DISCONNECT ALL CABLES AND PULL BACK TO HOME RUN PULL BOX.
10. FURNISH AND INSTALL NEW 2070E CONTROLLER WITH 2033 SOFTWARE PROGRAM, NEW SIDE-MOUNTED BATTERY BACKUP SYSTEM, AND 332L CABINET. PULL ALL EXISTING CABLES TO NEW CABINET AND CONNECT PER INTENDED OPERATION.

STANDARD NOTES:

- DH DETECTOR HANDHOLE
- CB INSTALL CONDUIT INTO EXISTING PULL BOX
- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
- FA FOUNDATION TO BE ABANDONED
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
- RS REMOVE AND SALVAGE EQUIPMENT



DETAIL B
NOT TO SCALE

TRAFFIC SIGNAL - IMPROVEMENT PLAN
SCALE: 1" = 20'

NOTE: LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

TRAFFIC SIGNAL MODIFICATION PLAN
N STATE STREET AT SCOTT STREET

PROJ NO: 11225278
DRWN: RB CHKD: JS

T-105

SHEET 71 OF 107

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CONDUCTOR SCHEDULE

AWG OR CABLE	CIRCUIT	RUNS 1	2	3	4	5	6*	7*	8*	9*
#14	ø1 SIGNALS									
	ø2 SIGNALS		3		3	3	~~6~~	~~6~~	~~3~~	~~3~~
	ø4 SIGNALS	3	3		3	3				
	ø5 SIGNALS		3		3	3				
	ø6 SIGNALS	3	3	3	6	9	~~3~~	~~3~~		
	ø8 SIGNALS					3	~~3~~			~~3~~
	ø2 PED					2	~~2~~	~~2~~	~~2~~	
	ø4 PED	2	2	2	4	4				
	ø6 PED			2	2	2				
	ø8 PED					4	~~4~~	~~2~~	~~2~~	~~2~~
	ø2 PPB					1	~~1~~	~~1~~	~~1~~	
	ø4 PPB	1	1	1	2	2				
	ø6 PPB			1	1	1				
	ø8 PPB					2	~~2~~	~~1~~	~~1~~	~~1~~
	PPB COMMON	1	1	1	1	1	~~1~~	~~1~~	~~1~~	~~1~~
	SPARES	3	3	3	3	3	~~3~~	~~3~~	~~3~~	~~3~~
	TOTAL #14 CONDUCTORS	13	20	13	28	49	~~25~~	~~19~~	~~13~~	~~13~~
#10	SIGNAL COMMON	1	1	1	1	1	~~1~~	~~1~~	~~1~~	~~1~~
	TOTAL #10 CONDUCTORS	1	1	1	1	1	~~1~~	~~1~~	~~1~~	~~1~~
#8	LUMINAIRES		2	2	2		~~2~~	~~2~~	~~2~~	
	GFCI GROUND									
	SIGNAL SERVICE					~~2~~	~~2~~			
	TOTAL #8 CONDUCTORS		2	2	2	~~2~~	~~4~~	~~2~~	~~2~~	
	VIDEO DETECTION CAMERA		2	1	3	3				
DLC	ø1 DETECTORS									
	ø2 DETECTORS	~~2~~ 1	~~2~~ 1		~~2~~ 1	~~4~~ 1	~~2~~	~~2~~		
	ø4 DETECTORS			~~1~~	~~1~~	~~1~~				
	ø5 DETECTORS									
	ø6 DETECTORS				2	4	~~2~~			~~2~~
	ø8 DETECTORS					1	~~1~~	~~1~~	~~1~~	
	TOTAL	~~2~~ 1	~~2~~ 1	~~1~~	~~5~~ 1	~~10~~ 1	~~5~~	~~3~~	~~1~~	
CONDUIT SIZE		2"	2"	2"	2-1/2"	3-1/2"	3"	2"	2"	2"

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED
~~3~~ CONDUCTORS AND/OR CABLES TO BE REMOVED (TYPICAL)
* ABANDON CONDUIT

EQUIPMENT AND POLE SCHEDULE

NO.	STANDARD TYPE	STANDARD SIG. MA (FEET)	STANDARD LUM. MA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED. SIGNAL MOUNTING	PPB Ø	LUMINAIRE WATTAGE (HPS)	SPECIAL REQUIREMENTS *
a	XVII A	20	12	MAS	SV-1	SP-1	4	200 W	
b	1-A (7')	–	–	–	–	TP-1	6	–	
c	1-A	–	–	–	TV-1	SP-1-T	6	–	
d	XVII A	20	12	MAT	SV-1 SV-1	–	–	200 W	RS POLE AND EQUIPMENT FA FOUNDATION
e	1-A	–	–	–	TV-2-T	SP-1	4	–	
f	XVII A	20	12	MAT	SV-1 SV-1	–	–	200 W	RS POLE AND EQUIPMENT FA FOUNDATION
g	1-A	–	–	–	TV-2-T	SP-1	4	–	RS POLE AND EQUIPMENT FA FOUNDATION
h	XVII A	20	12	MAS	SV-1	SP-1	4	200 W	RS POLE AND EQUIPMENT FA FOUNDATION
i	1-A (7')	–	–	–	–	TP-1	6	–	RS POLE AND EQUIPMENT FA FOUNDATION
j	1-A	–	–	–	TV-1	SP-1	6	–	RS POLE AND EQUIPMENT FA FOUNDATION
K	19-4-100	30	12	MAS MAS	SV-2-T	–	–	200 W	INSTALL SNS AND MOUNTING ON SIGNAL MAST ARM

NOTE:

XXX LIGHT TEXT INDICATES EXISTING
XXX BOLD TEXT INDICATES PROPOSED

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TRAFFIC SIGNAL SCHEDULE TABLES
N STATE STREET AT SCOTT STREET

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ABBREVIATIONS

(D)	DEMOLISH
(E)	EXISTING
(F)	FUTURE
(N)	NEW
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BFG	BELOW FINISH GRADE
CATV	CABLE TELEVISION
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
EF	EXHAUST FAN
EGU	ENGINE GENERATOR UNIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FU	FUSE
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
HID	HIGH INTENSITY DISCHARGE
HOA	"HAND-OFF-AUTO" SWITCH
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION & AIR-CONDITIONING
IG	ISOLATED GROUND
JB	JUNCTION BOX
KAIC	KILO-AMPS INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT-AMP
KW	KILOWATT
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LPS	LOW PRESSURE SODIUM
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MV	MEDIUM VOLTAGE
N	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
P	POLE
PA	PUBLIC ADDRESS
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PB	PULL BOX, ELECTRICAL
RECPT	RECEPTACLE, OUTLET
RGS	RIGID GALVANIZED STEEL (CONDUIT)
RVSS	REDUCED VOLTAGE SOFT START
RTU	REMOTE TERMINAL UNIT
TBD	TO BE DETERMINED
TV	TELEVISION MONITOR (SET)
TVSS	TRANS. VOLT. SURGE SUPPRESSOR
UF	UNDER FLOOR
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMP
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WPI	WEATHERPROOF IN USE
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS LEGEND

LIGHTING

- LIGHTING FIXTURE, RECESSED
- RECESSED DOWN LIGHT FIXTURE
- RECESSED DIRECTIONAL FIXTURE (ARROW INDICATES AIMING)
- LIGHTING FIXTURE, SURFACE MOUNTED
- SURFACE, PENDANT OR OTHER FIXTURE
- LARGE DIAMETER PENDANT, DEPICTING APPROXIMATE DIAMETER
- LIGHTING FIXTURE, WALL MOUNTED
- WALL-MOUNTED HID, INCANDESCENT, OR COMPACT FLUORESCENT FIXTURE
- LIGHTING FIXTURE, PENDANT OR CABLE HUNG
- LIGHT TRACK AND TRACK-MOUNTED FIXTURES
- BATH FAN WITH INTEGRAL LIGHT
- EXIT SIGN, SINGLE FACE WITH DIRECTIONAL ARROWS AS INDICATED
- EXIT SIGN, DOUBLE FACE WITH DIRECTIONAL ARROWS AS INDICATED
- LL — EXIT SIGN, LOW LEVEL
- COMBINATION EXIT/EMERGENCY LIGHT FIXTURE MOUNTING HEIGHT: +8'-0" AFF, UON
- EMERGENCY FIXTURE MOUNTING HEIGHT: +8'-0" AFF, UON
- DENOTES FIXTURE CONNECTED TO EMERGENCY CIRCUIT
- ADJUSTABLE SPOT OR FLOOD (ARROW INDICATES AIMING)
- OUTDOOR SITE LIGHT, POLE MOUNTED LUMINAIRE ARROW INDICATES AIMING DIRECTION, IF APPLICABLE
- BOLLARD OR POST-TOP FIXTURE

SWITCHING

- $ — LIGHT SWITCH, SPST - MOUNTING HEIGHT: +44" AFF, UON
- $2 — LIGHT SWITCH, DPST - MOUNTING HEIGHT: +44" AFF, UON
- $3 — LIGHT SWITCH, 3-WAY - MOUNTING HEIGHT: +44" AFF, UON
- $aL — DENOTES SWITCH; LOW VOLTAGE SWITCH, MOMENTARY CONTACT, 3-POS., CENTER-OFF, MOUNTING HEIGHT: +44" AFF, UON
- $T — TIMER SWITCH - MOUNTING HEIGHT: +44" AFF, UON
- 1a — DENOTES SWITCH; DENOTES CIRCUIT; CIRCUIT AND SWITCH DESIGNATION FOR LIGHTING FIXTURE
- 6R5 — DENOTES RELAY; DENOTES CIRCUIT; CIRCUIT AND RELAY DESIGNATION FOR LIGHTING FIXTURES (SEE CORRESPONDING LIGHTING CONTROL PANEL RELAY SCHEDULE)
- D1 — DIMMER SWITCH - MOUNTING HEIGHT: +44" AFF, UON
- PP1 — OCCUPANCY SENSOR POWER PACK, 1-CIRCUIT, MOUNTED ABOVE CEILING
- PP2 — OCCUPANCY SENSOR POWER PACK, 2-CIRCUIT MOUNTED ABOVE CEILING
- CS1 — OCCUPANCY SENSOR, CEILING MOUNTED, LINE VOLTAGE
- CS2 — OCCUPANCY SENSOR, CEILING MOUNTED, LOW VOLTAGE
- W1 — OCCUPANCY SENSOR, WALL MOUNTED, LINE VOLTAGE, 1-CIRCUIT MOUNTING HEIGHT: +44" AFF, UON
- W2 — OCCUPANCY SENSOR, WALL MOUNTED, LINE VOLTAGE, 2-CIRCUIT MOUNTING HEIGHT: +44" AFF, UON
- PC — PHOTO CONTROL SWITCH - MOUNT ON BUILDING EXTERIOR
- TC — TIME CLOCK FOR LIGHTING CONTROL

POWER

- +48" — DENOTES HEIGHT IN INCHES AFF (INTERIOR) AFG (EXTERIOR); DUPLEX RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE, MOUNTING HEIGHT: +18" AFF UON
- $ — DUPLEX RECEPTACLE - SPLIT WIRED, SWITCHED
- DUPLEX RECEPTACLE - EMERGENCY POWER
- C — DUPLEX RECEPTACLE - CEILING MOUNTED
- FLOOR RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE, FLUSH TYPE UON
- DOUBLE DUPLEX RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE, MOUNTING HEIGHT: +18" AFF UON
- SINGLE RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE, MOUNTING HEIGHT: +18" AFF UON
- OR — SPECIAL PURPOSE RECEPTACLE AS DESIGNATED SEE 'SPECIAL SYMBOLS' ON EACH SHEET
- DUAL SERVICE RECESSED FLOOR BOX WITH DUPLEX AND DATA RECEPTACLES
- J OR J — JUNCTION BOX, CODE SIZED UON
- FLOOR JUNCTION BOX
- DISCONNECT SWITCH - FUSED WHERE APPLICABLE
- MOTOR STARTER, COMBINATION WITH DISCONNECT SWITCH
- MOTOR STARTER OR CONTROLLER
- M — MOTOR CONNECTION
- CEILING EXHAUST FAN
- WH OR WH — WATER HEATER
- P — POWER POLE: P=POWER, T=TELEPHONE, D=DATA, C=COMBINATION
- TEST PORT
- OR — GROUND ROD
- GUY WIRE AND ANCHOR
- T — THERMOSTAT (SEE MECHANICAL DRAWINGS) COORDINATE MOUNTING HEIGHT
- BT — BYPASS TIMER OR TIME SWITCH
- PUSHBUTTON
- LC — LIGHTING CONTACTOR

COMMUNICATION

- CCTV CAMERA, CEILING MOUNT
- I — INTERCOM CALL IN SWITCH - MOUNTING HEIGHT: +44" AFF, UON
- TELEPHONE OUTLET FOR WALL MOUNTED TELEPHONE MOUNTING HEIGHT: +44" AFF UON
- DATA OUTLET - MOUNTING HEIGHT: +18" AFF UON
- 21 — DENOTES # OF TELEPHONE JACKS; TELEPHONE/DATA OUTLET, FLUSH TYPE UON MOUNTING HEIGHT: +18" AFF UON; DENOTES # OF DATA JACKS
- 1 2 — SURFACE RACEWAY WITH POWER AND TELEPHONE/DATA RECEPTACLES AS INDICATED
- TV — CATV OUTLET - MOUNTING HEIGHT: +96" AFF UON
- AV1 — AUDIO/VIDEO OUTLET - MOUNTING HEIGHT: +18" AFF UON
- C — CLOCK WITH BUZZER - MOUNTING HEIGHT: SEE PLANS
- B — BELL, STANDARD 6" - MOUNTING HEIGHT: SEE PLANS PA SYSTEM
- S — SPEAKER - WALL MOUNTED
- S — PA SYSTEM SPEAKER - CEILING MOUNTED
- S — PA SYSTEM HORN - MOUNTING HEIGHT: SEE PLANS

EQUIPMENT

- MAIN SWITCHBOARD
- DISTRIBUTION PANEL BOARD
- COMBINATION METER/MAIN SERVICE PANEL
- OR — BRANCH CIRCUIT PANEL BOARD, SURFACE OR FLUSH MOUNTED
- OR — LIGHTING CONTROL PANEL
- OR — SIGNAL TERMINAL CABINET OR CONTROL PANEL SURFACE OR FLUSH MOUNTED
- SIGNAL TERMINAL BACKBOARD
- N30 — CONCRETE UNDERGROUND HAND HOLE (NUMBER DENOTES CHRISTY SIZE)
- T OR Δ — TRANSFORMER

CONDUIT

- CONDUIT INSTALLED ABOVE GRADE
- CONDUIT INSTALLED UNDERGROUND OR UNDER SLAB
- CONDUIT STUB-OUT WITH CAP
- FLEXIBLE CONDUIT WHIP TO LIGHT FIXTURE OR EQUIPMENT
- L1-4 — INDICATES CIRCUIT BREAKER I.D.; INDICATES BRANCH PANEL
- CONDUIT HOME RUN TO DESIGNATED PANEL, TERMINAL, OR CONTROL CABINET EXAMPLES:
  - L1-6,8 — COMMA INDICATES MULTIPLE SINGLE POLE CIRCUITS
  - L1-10/12 — SLASH INDICATES MULTI-POLE CIRCUIT

NOTE FOR CONDUIT: THE TIC MARKS INDICATE THE QUANTITY OF #12 AWG WIRES OR, IF INDICATED, THE QUANTITY OF OTHER SIZE WIRE OR CABLES.

SEE THE SINGLE LINE DIAGRAM FOR FEEDER SIZES.
EXAMPLES:
- = (3) #12
- #10 = (2) #10
- F1 = (1) TYPE F1 CABLE. SEE CABLE SCHEDULE.

OBJECT LINES

- NEW OBJECTS (HEAVY CONTINUOUS LINES, UNDERGROUND CONDUIT HEAVY DASHED LINES)
- EXISTING OBJECTS TO REMAIN. MAY INCLUDE NEW CIRCUITING ETC. (FINE CONTINUOUS LINES, UNDERGROUND CONDUIT FINE DASHED LINES)
- EXISTING OBJECTS TO BE DEMOLISHED (EXTRA FINE DASHED LINES, SCREENED)

ANNOTATION

- 1 — KEYNOTE
- 10 — RACEWAY, FEEDER OR CIRCUIT DESIGNATION (SEE SCHEDULE)
- A / 180 — DENOTES TYPE; DENOTES WATTS; LIGHTING FIXTURE TYPE DESIGNATION (SEE SCHEDULE)
- 1 / E-501 — DETAIL NUMBER; DETAIL INDICATOR; SHEET NUMBER ON WHICH DETAIL APPEARS
- A / E-301 — SECTION LETTER; SECTION INDICATOR; SHEET NUMBER ON WHICH SECTION APPEARS
- WH / 1 — MECHANICAL EQUIPMENT DESIGNATION (SEE SCHEDULE)

GENERAL ELECTRICAL NOTES

1. COORDINATE WITH CITY OF UKIAH ELECTRIC DEPARTMENT ON ALL ELECTRICAL IMPROVEMENTS.
2. PRIOR TO COMMENCING WORK ON EXISTING SYSTEMS OR WHERE EXISTING SYSTEMS REQUIRE SHUT DOWNS, COORDINATE WITH OWNERS REPRESENTATIVE. WHERE DISCONNECTING, MODIFYING OR WORKING ON EXISTING EQUIPMENT OR SYSTEMS, PROVIDE A WRITTEN METHOD OF PROCEDURE OUTLINING DATES, TIMES, DURATION AND DESCRIPTION OF PROPOSED WORK FOR APPROVAL PRIOR TO COMMENCING WORK . WORK ON EXISTING EQUIPMENT SHALL NOT COMMENCE UNTIL WRITTEN AUTHORIZATION IS GIVEN BY THE OWNERS REPRESENTATIVE.

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

GENERAL ELECTRICAL

PROJ NO: 11225278
DRWN: JJVL CHKD: RPG

E-001

SHEET 73 OF 107

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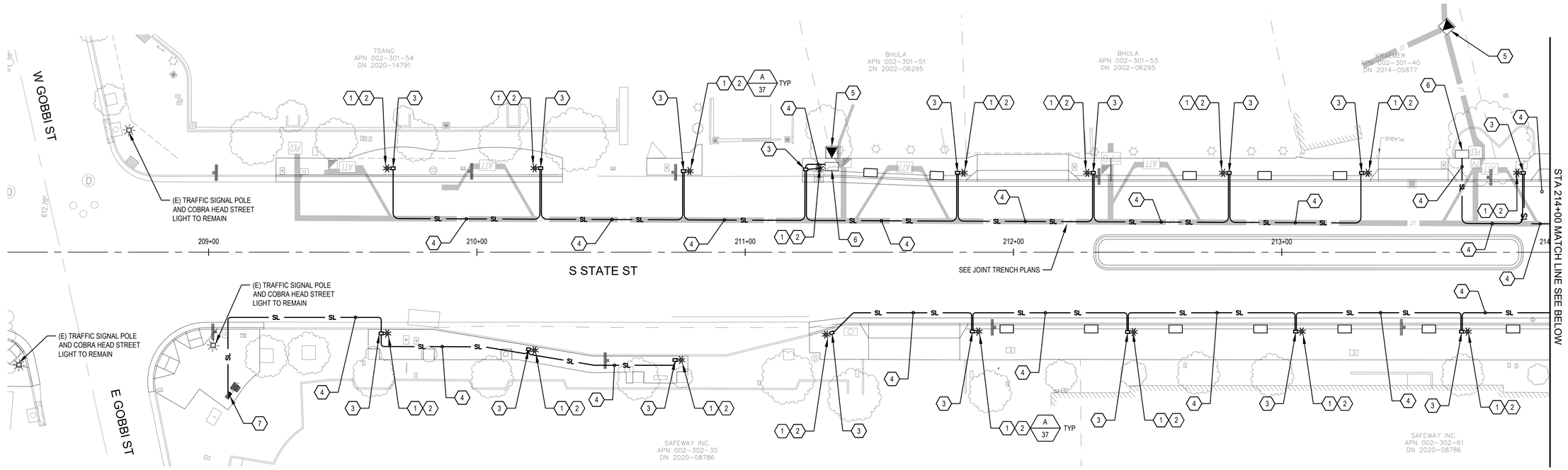

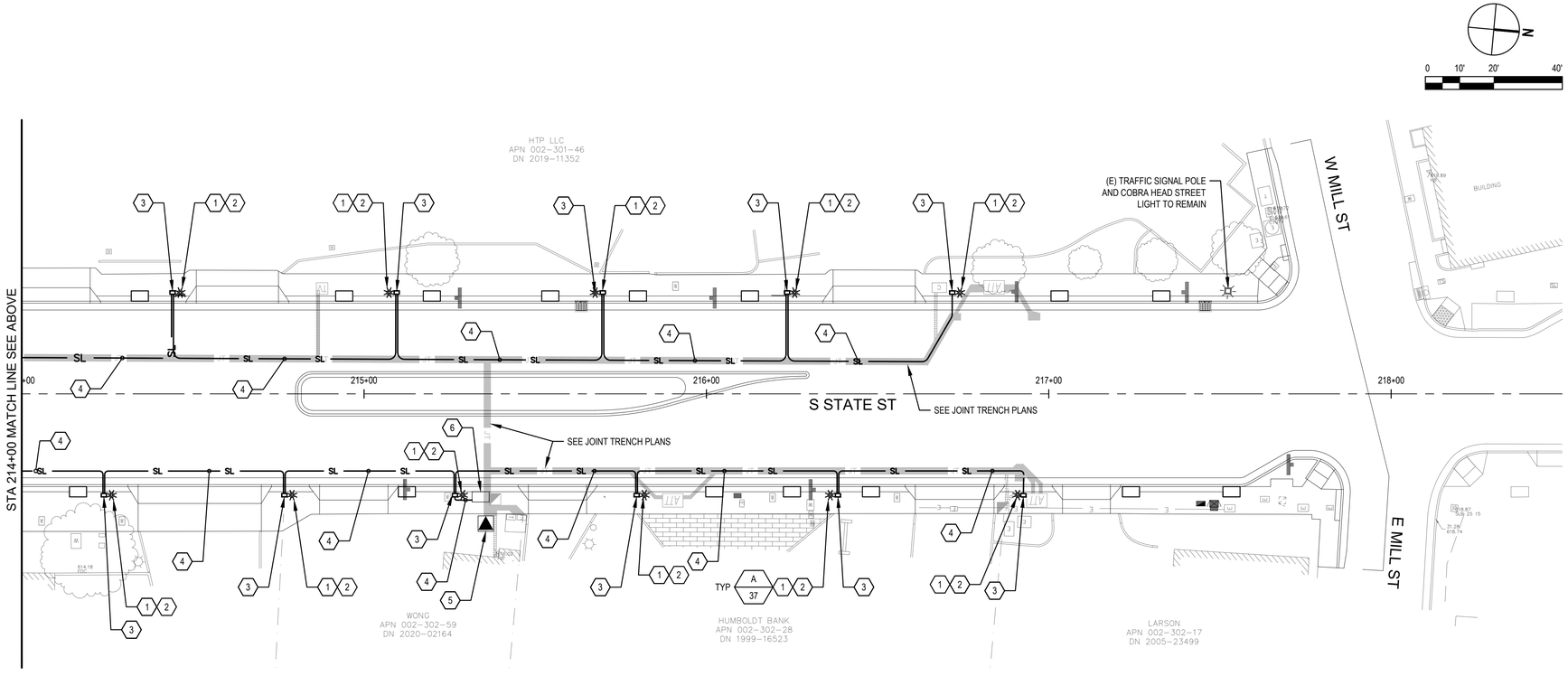

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SHEET GENERAL NOTES

1. COORDINATE ALL WORK AND SCHEDULE ALL POWER SHUTDOWNS W/ CITY OF UKIAH ELECTRICAL DEPARTMENT.
2. SEE STREET LIGHT WIRING DIAGRAM ON DETAIL 2/E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.
3. SEE SINGLE LINE DIAGRAM ON SHEET E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.

SHEET KEYNOTES

1. PROVIDE FIXTURE, PHOTOCELL, POLE, CONCRETE POLE BASE, AND PULLBOX AS INDICATED.
2. PROVIDE TYPICAL STREET LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON E-601.
3. PROVIDE STREET LIGHTING SYSTEM PULLBOX. INTERCEPT AND CONNECT TO STREET LIGHTING CONDUIT.
4. PROVIDE 2 INCH TYPE 3 CONDUIT PER CALTRANS. SEE TYPICAL ELECTRICAL TRENCH DETAIL 1/E-501.
5. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SERVICE POINT.
6. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SECONDARY BOX.
7. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT EXISTING SERVICE POINT.

SHEET SPECIAL SYMBOL

—SL—	STREET LIGHT
	STREET LIGHT
	(E) COBRA HEAD LIGHT

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ELECTRICAL PLAN
S STATE ST STA. 209+50 - STA. 218+50

PROJ NO: 11225278

DRWN: JJVL CHKD: RPG

E-101

SHEET 74 OF 107

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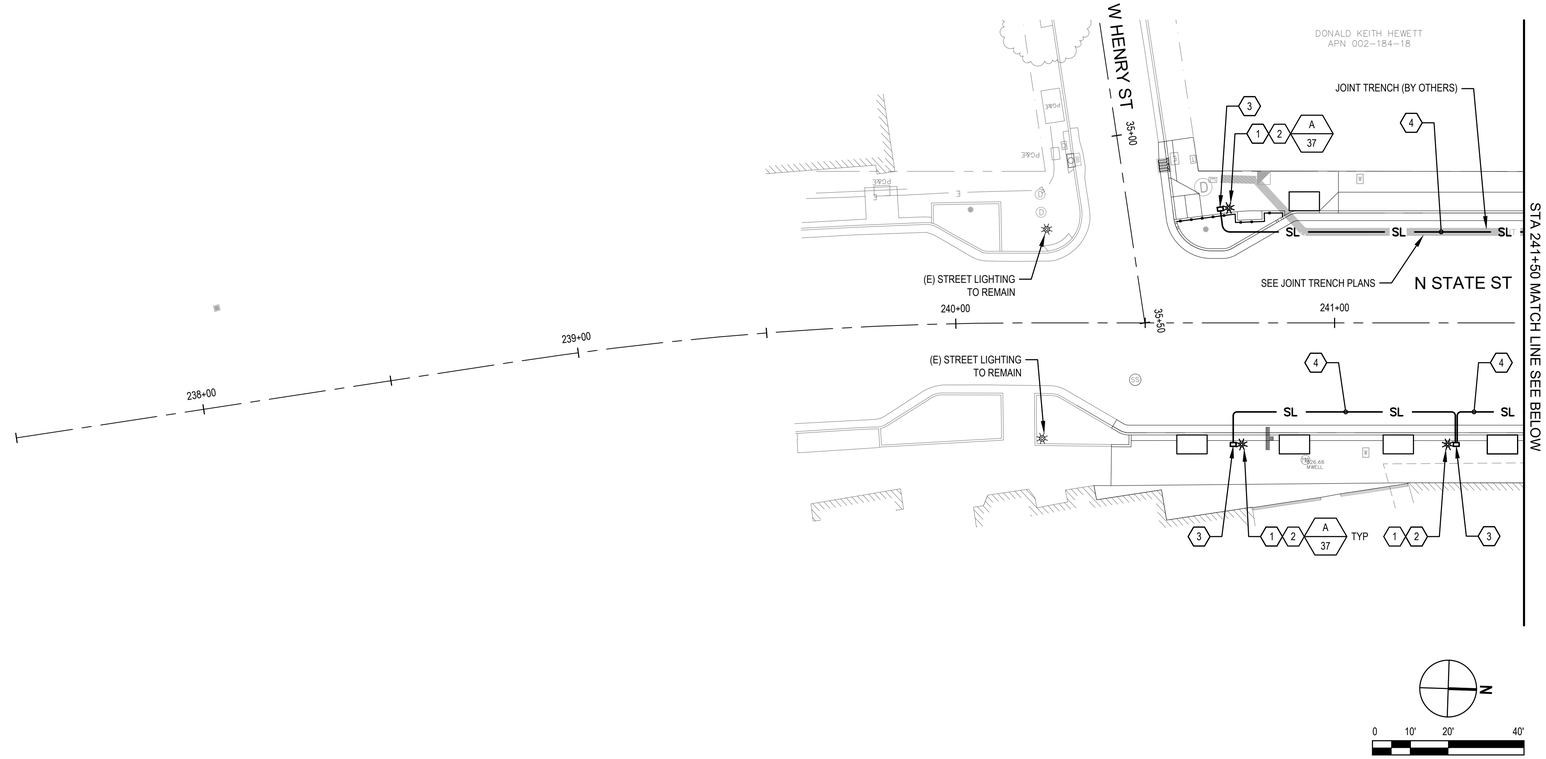

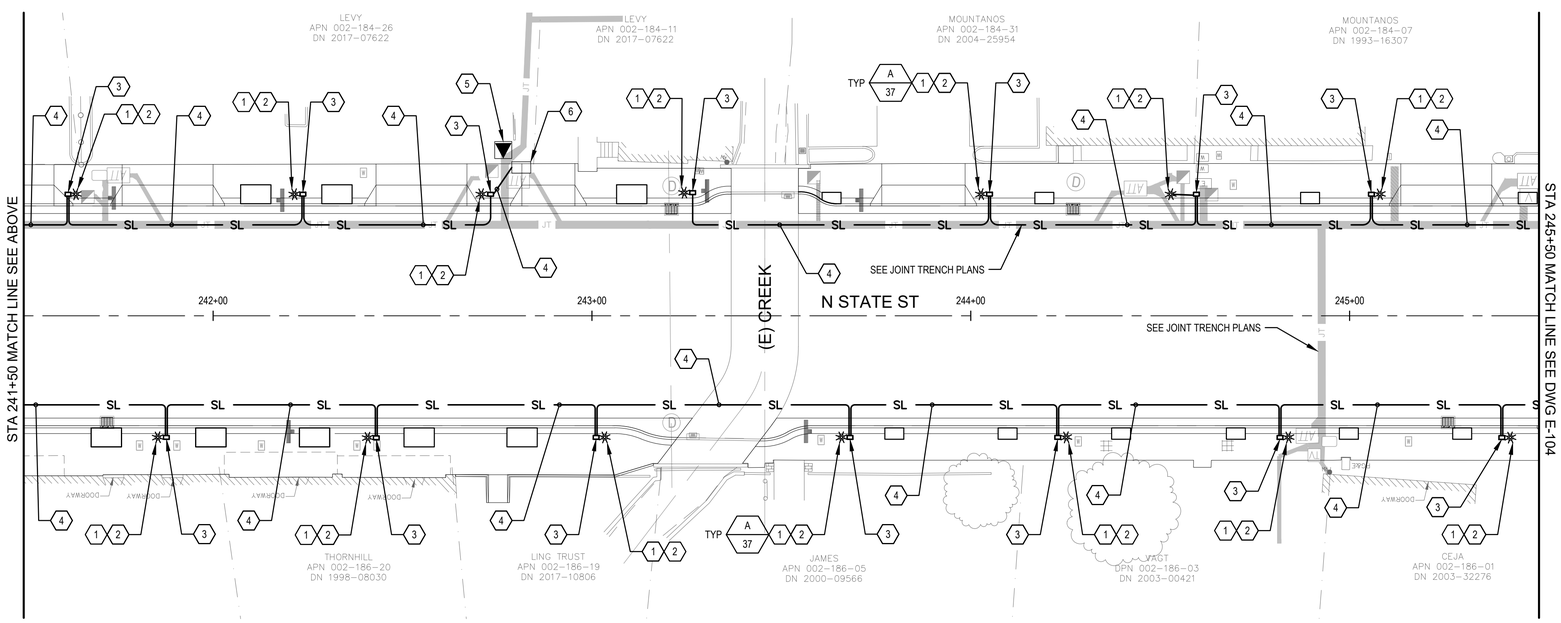

SHEET GENERAL NOTES

1. COORDINATE ALL WORK AND SCHEDULE ALL POWER SHUTDOWNS W/ CITY OF UKIAH ELECTRICAL DEPARTMENT.
2. SEE STREET LIGHT WIRING DIAGRAM ON DETAIL 2/E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.
3. SEE SINGLE LINE DIAGRAM ON SHEET E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.

SHEET KEYNOTES

1. PROVIDE FIXTURE, PHOTOCELL, POLE, CONCRETE POLE BASE, AND PULLBOX AS INDICATED.
2. PROVIDE TYPICAL STREET LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON E-601.
3. PROVIDE STREET LIGHTING SYSTEM PULLBOX. INTERCEPT AND CONNECT TO STREET LIGHTING CONDUIT.
4. PROVIDE 2 INCH TYPE 3 CONDUIT PER CALTRANS. SEE TYPICAL ELECTRICAL TRENCH DETAIL 1/E-501.
5. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SERVICE POINT.
6. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SECONDARY BOX.
7. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT EXISTING SERVICE POINT.

SHEET SPECIAL SYMBOL

—SL—	STREET LIGHT
	STREET LIGHT
	(E) COBRA HEAD LIGHT

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ELECTRICAL PLAN
N STATE ST STA. 237+50 - STA. 245+50

PROJ NO: 11225278

DRWN: JJVL CHKD: RPG

E-102

SHEET 75 OF 107

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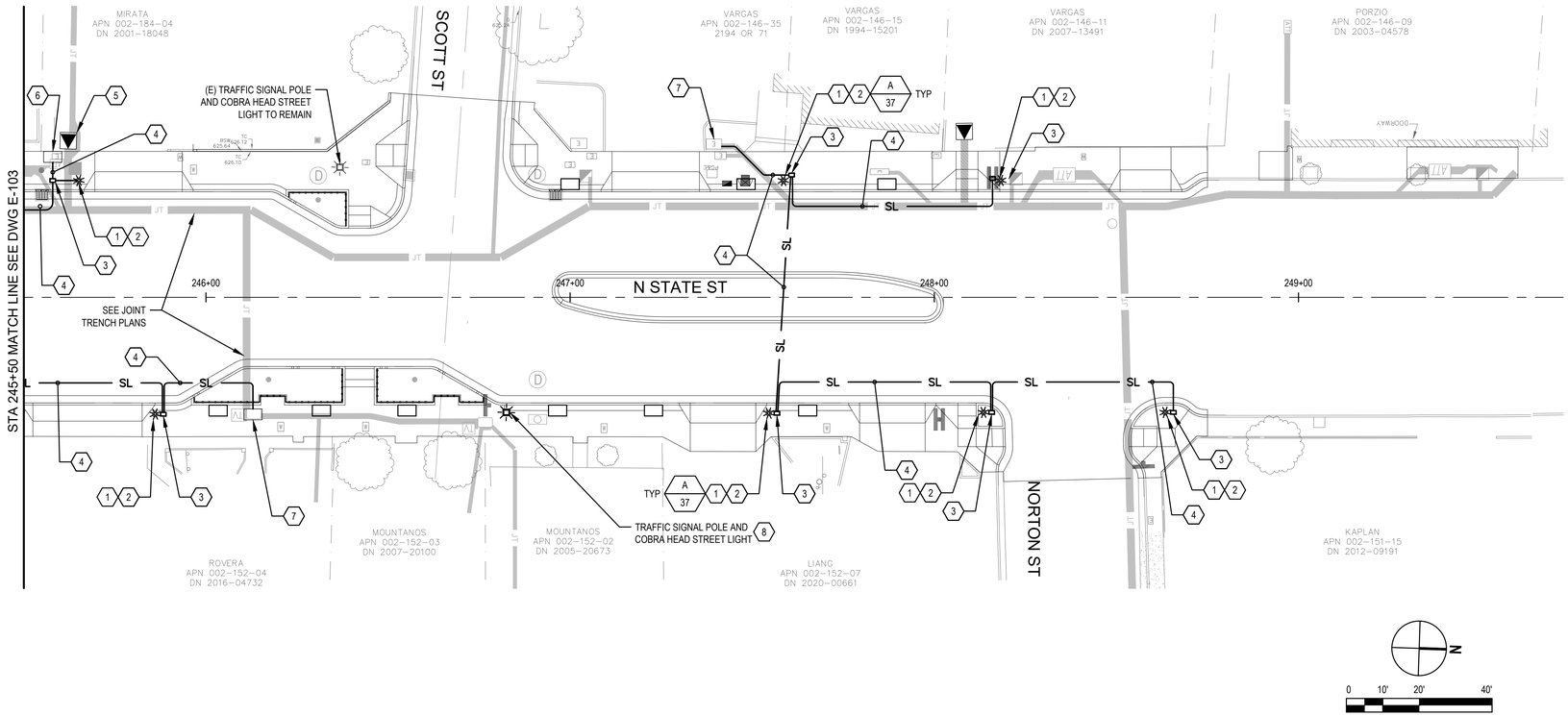

SHEET GENERAL NOTES

1. COORDINATE ALL WORK AND SCHEDULE ALL POWER SHUTDOWNS W/ CITY OF UKIAH ELECTRICAL DEPARTMENT.
2. SEE STREET LIGHT WIRING DIAGRAM ON DETAIL 2/E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.
3. SEE SINGLE LINE DIAGRAM ON SHEET E-601 FOR EQUIPMENT RATINGS AND SIZES, CONDUIT AND CABLE SIZES.

SHEET KEYNOTES

1. PROVIDE FIXTURE, PHOTOCELL, POLE, CONCRETE POLE BASE, AND PULLBOX AS INDICATED.
2. PROVIDE TYPICAL STREET LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON E-601.
3. PROVIDE STREET LIGHTING SYSTEM PULLBOX. INTERCEPT AND CONNECT TO STREET LIGHTING CONDUIT.
4. PROVIDE 2 INCH TYPE 3 CONDUIT PER CALTRANS. SEE TYPICAL ELECTRICAL TRENCH DETAIL 1/E-501.
5. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SERVICE POINT.
6. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT SECONDARY BOX.
7. COORDINATE CONNECTION TO CITY OF UKIAH ELECTRIC DEPARTMENT EXISTING SERVICE POINT.
8. PROVIDE LIGHT FIXTURE. SEE TRAFFIC SIGNAL EQUIPMENT AND POLE SCHEDULE ON T-106.

SHEET SPECIAL SYMBOL

—SL—	STREET LIGHT
☼	STREET LIGHT
⊡	COBRA HEAD LIGHT

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CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ELECTRICAL PLAN
N STATE ST STA. 245+50 - STA. 253+50

PROJ NO: 11225278

DRWN: JJVL CHKD: RPG

E-103

SHEET 76 OF 107

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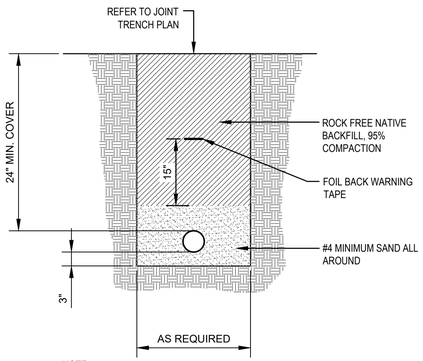
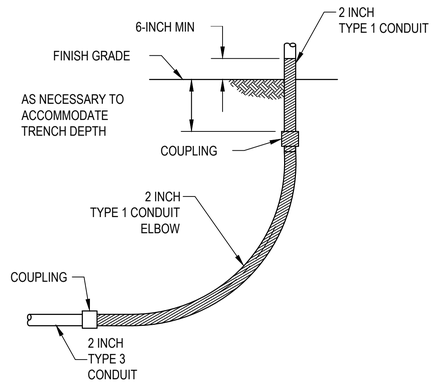


NOTE:

1. MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12" WHEN CROSSING UTILITIES. ROUTE CONDUIT EITHER ABOVE OR BELOW OTHER UTILITIES AS NECESSARY TO ACHIEVE THIS SEPARATION WHILE MAINTAINING THE MINIMUM BACKFILL COVERAGE.

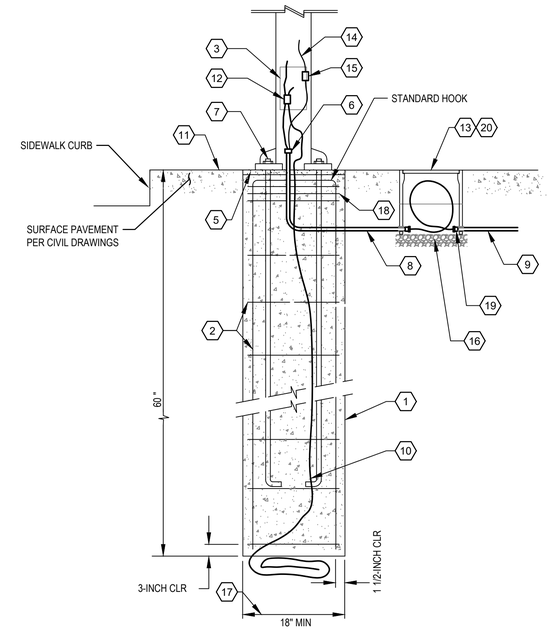
1 TYPICAL STREET LIGHT TRENCH

NO SCALE



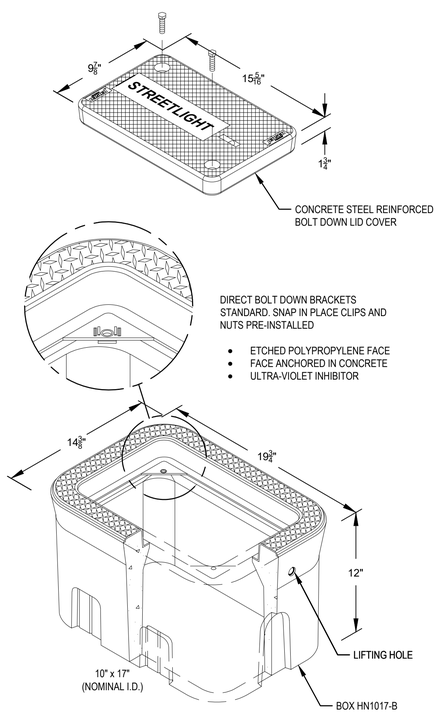
2 TYPICAL CONDUIT STUB-UP

NO SCALE



3 TYPICAL CONCRETE POLE BASE

NO SCALE



4 TYPICAL STREET LIGHT PULL BOX - HN1017

NO SCALE

DETAIL KEYNOTES

1. POURED IN PLACE ROUND CONCRETE SUPPORT BASE.
2. 4- NO. 6 VERTICAL BARS WITH NO. 3 TIES @ 8-INCH O.C. SEE NOTE 18.
3. ACCESS HAND-HOLE.
4. NOT USED.
5. GROUT IN ALL AROUND BETWEEN BOTTOM OF POLE BASE FOLLOWING POLE ERECTION AND FINAL LEVELING.
6. STUB CONDUIT UP INTO POLE BASE WIRING CAVITY. (IF TYPE 1 CONDUIT TERMINATE WITH GROUNDING BUSHING.)
7. PROVIDE SUPPORT AND LEVELING NUTS ON TOP AND BOTTOM OF POLE BASE MOUNTING PLATE. MOUNTING PLATE AND MOUNTING BOLTS SHALL BE PER MANUFACTURERS BOLT PATTERN, LENGTH SHALL BE PER MANUFACTURERS SPECIFICATIONS. WITH 2'-0" MIN. EMBEDMENT INTO CONCRETE POLE BASE.
8. TYPICAL TYPE 3 CONDUIT, 3/4-INCH MIN, WITH CONDUCTORS AS INDICATED ON DRAWINGS.
9. TYPICAL INCOMING EXTERIOR BRANCH CIRCUIT CONDUIT AND WIRING FROM U.G. CONDUITS. CONDUIT SHALL ENTER BOX AT 90-DEGREES
10. (1) #12 AWG BARE COPPER GROUND. COIL 30-INCH AT BOTTOM OF FOUNDATION.
11. TOP OF SIDEWALK AS INDICATED ON THE RESPECTIVE AREA SITE PLAN. SEE CIVIL DRAWINGS FOR SIDEWALK DETAILS.
12. BOLTED TYPE WIRE GROUND CONNECTOR.
13. REINFORCED, PRECAST GRADE MOUNTED STREET LIGHT PULL BOX, JENSEN H1017 OR EQUAL. PROVIDE WITH OPEN BOTTOM. ALL SPLICES SHALL BE MADE IN THE PULL BOX AND SHALL BE WATERPROOF, CAST TYPE.
14. WIRING TO LIGHT FIXTURE. CONNECT COMPLETE.
15. WATERPROOF IN-LINE FUSES.
16. COMPACTED AGGREGATE BASE FLOOR ON UNDISTURBED EARTH.
17. WHERE THERE ARE EXISTING POLE MOUNTED FIXTURES ON THE JOB SITE, MODIFY DIAMETER OF POLE BASE TO MATCH EXISTING. MINIMUM DIAMETER SHALL BE 18-INCH.
18. LATERAL REINFORCEMENT SHALL BE DISTRIBUTED WITHIN 5-INCHES OF THE TOP OF THE COLUMN AND SHALL CONSIST OF 2-NO. 4 OR 3-NO. 3 BARS. (PER ACI318 - 7.10.5.6)
19. PROVIDE BELL-END ON ALL CONDUITS. GROUT AND SEAL CONDUIT ENTRY INTO PULL BOX.
20. LABEL COVER WITH "STREETLIGHT" OR SIMILAR.

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ISSUE

CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

ELECTRICAL DETAILS - 1

PROJ NO: 11225278
DRWN: JJVL CHKD: RPG

E-501

SHEET 77 OF 107

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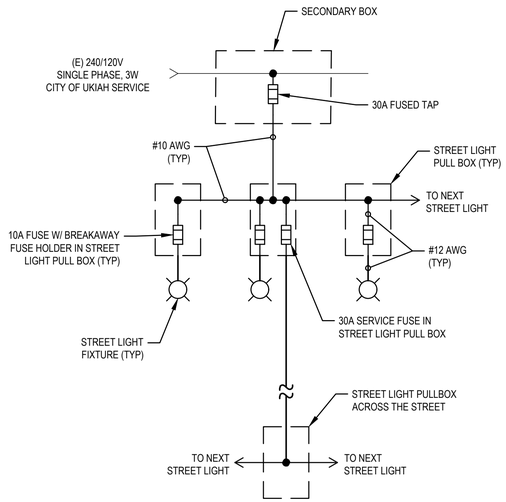


STREET LIGHT FEED IS ALWAYS:

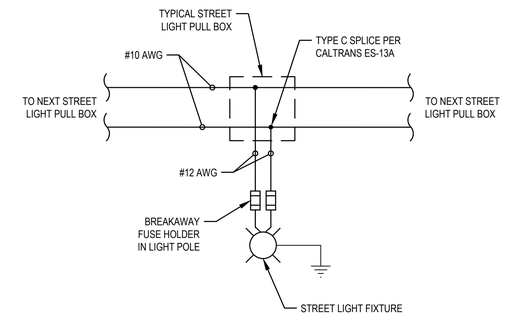
1. FROM TRANSFORMER OR SECONDARY BOX - PROVIDED BY THE CITY OF UKIAH ELECTRICAL DEPARTMENT.
2. FUSED.

STREET LIGHT PULL BOX:

1. INDIVIDUAL STREET LIGHT ARE FUSED IN ADJACENT STREET LIGHT PULL BOX.
2. STREET LIGHT CROSSING ARE FUSED.
3. STREET LIGHT FEED IS CONTINUOUS FUSE TO LUMINAIRE.

1 SINGLE LINE DIAGRAM - STANDARD STREET LIGHT

SCALE: NOT TO SCALE



NOTES:

1. STREET LIGHT WIRING IN 2" CONDUIT, UON.

2 STREET LIGHT WIRING DIAGRAM

SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	MOUNTING	LAMP TYPE	COLOR TEMP	WATTAGE
A	PHILIPS LUMEC	DMS50-35W32LED3K-T-LE2S-UNV-DMG-SMA-PHXL-RC-BKTX	DOMUS 50	15' POLE MOUNTED	LED	3000 K	37

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REGISTERED PROFESSIONAL ENGINEER
RYAN P. GUSTAFSON
No. E 93587
Exp. 12/31/17
ELECTRICAL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

SINGLE LINE DIAGRAM & SCHEDULE

PROJ NO: 11225278

DRWN: JJVL CHKD: RPG

E-601

SHEET 78 OF 107

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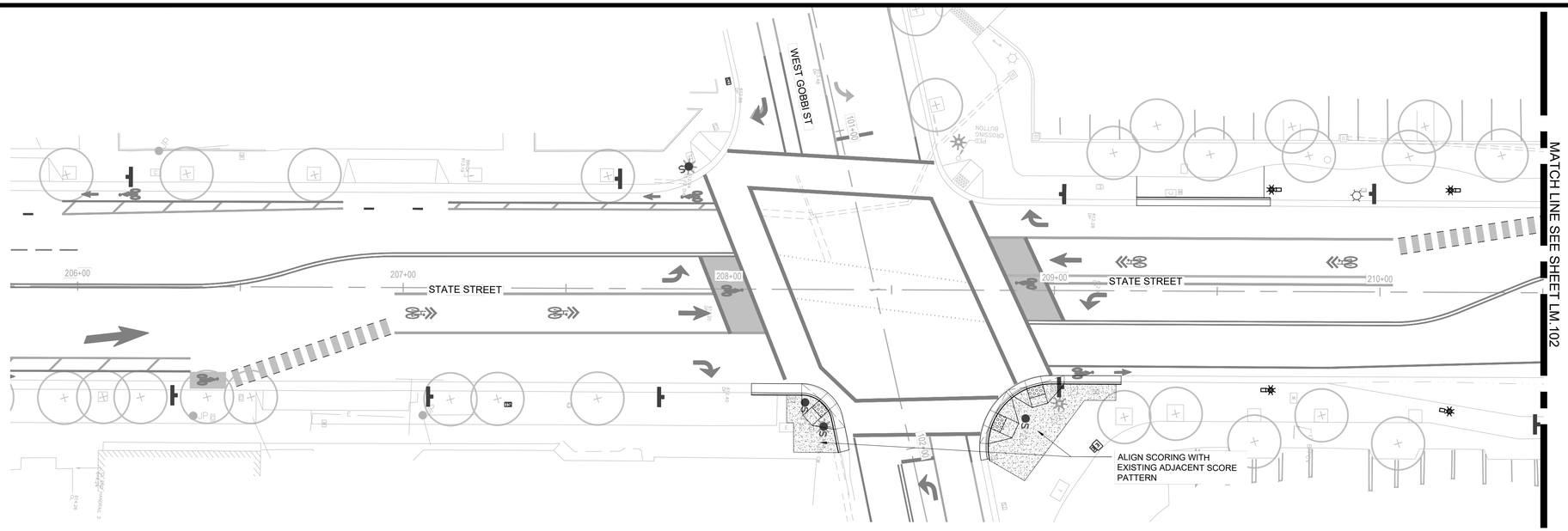

LANDSCAPE LAYOUT NOTES

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4. REFOR TO CIVIL GRADING PLANS FOR GRADING INFORMATION.
5. LIGHT FIXTURES SHOWN FOR REFERENCE. REFER TO CIVIL HORIZONTAL CONTROL PLANS FOR FIXTURE LOCATIONS. REFER TO ELECTRICAL LIGHTING PLANS FOR CIRCUITRY AND COMPLETE FIXTURE SPECIFICATIONS.
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SYMBOLS AND ABBREVIATIONS			
OC	ON CENTER	AB	AGGREGATE BASE
SCD	SEE CIVIL DRAWINGS	EQ	EQUAL
SED	SEE ELECTRICAL DRAWINGS	PA	PLANTING AREA
(E)	EXISTING	TYP	TYPICAL
(N)	NEW	CIP	CAST IN PLACE

LANDSCAPE LAYOUT LEGEND

SYMBOL	TYPE	DETAIL
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	BIKE RACK, SURFACE MOUNT	2 / LM.501
	BENCH, SURFACE MOUNT	3 / LM.501
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PROJ NO: 11225278
DRWN: CHKD:
GOBBI STREET
LM.101
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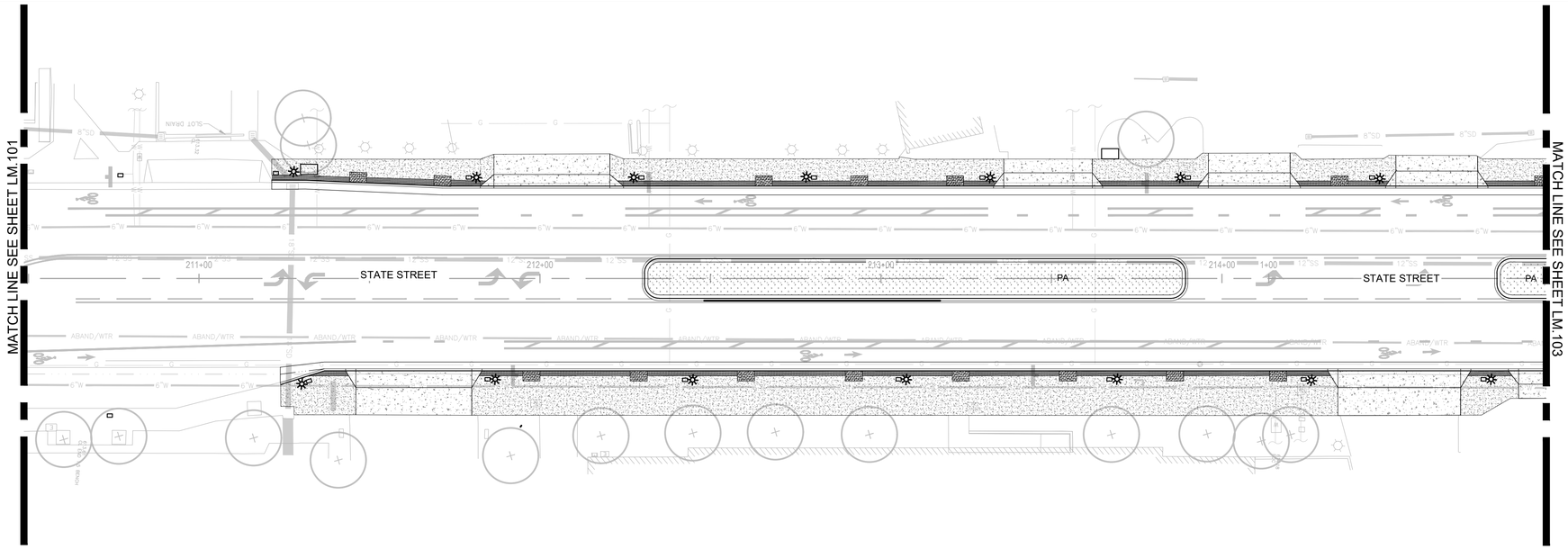

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PROJ NO: 11225278
DRWN: CHKD:
UKIAH GATEWAY
LM.102
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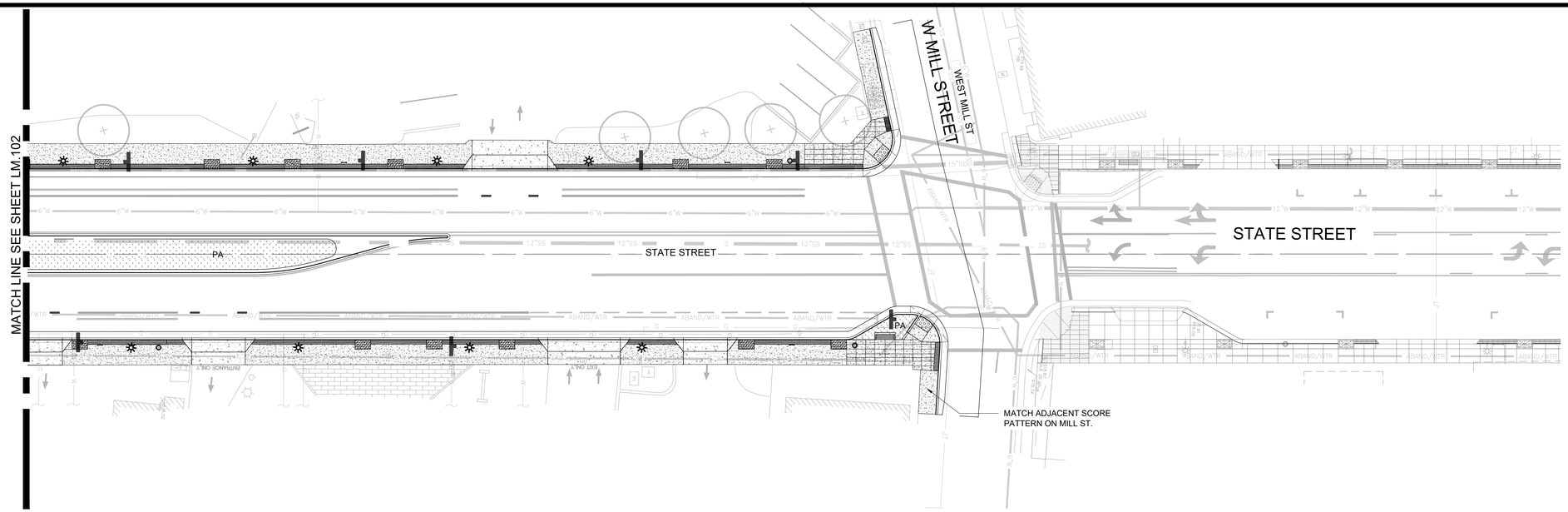

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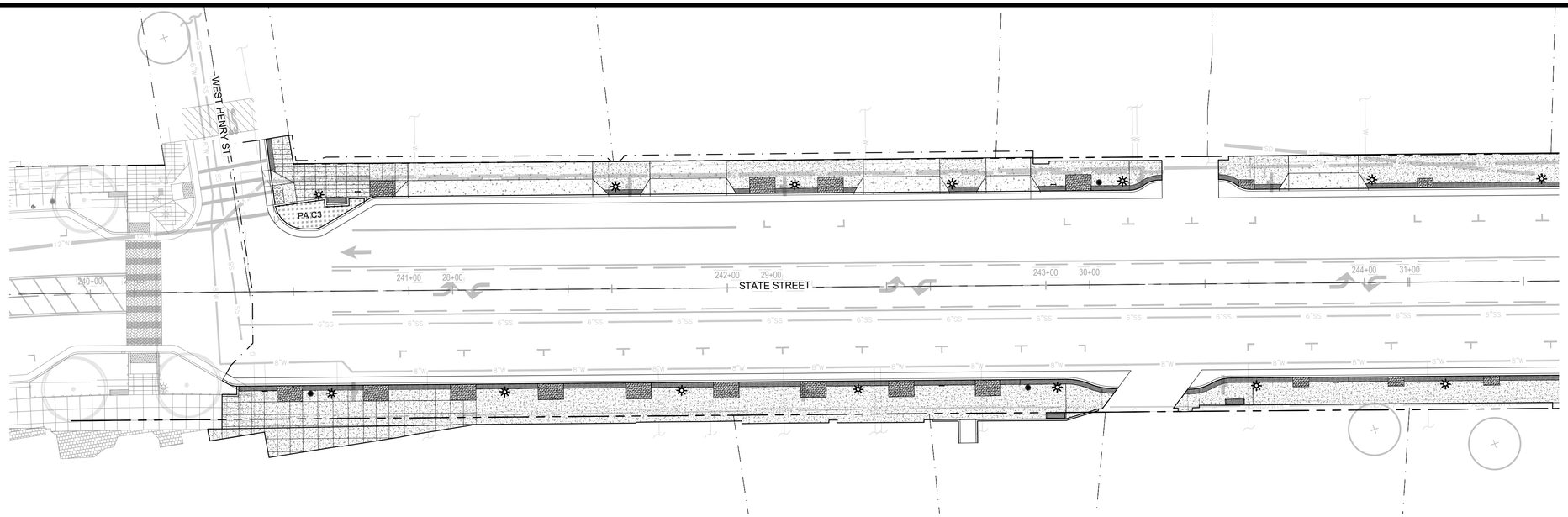

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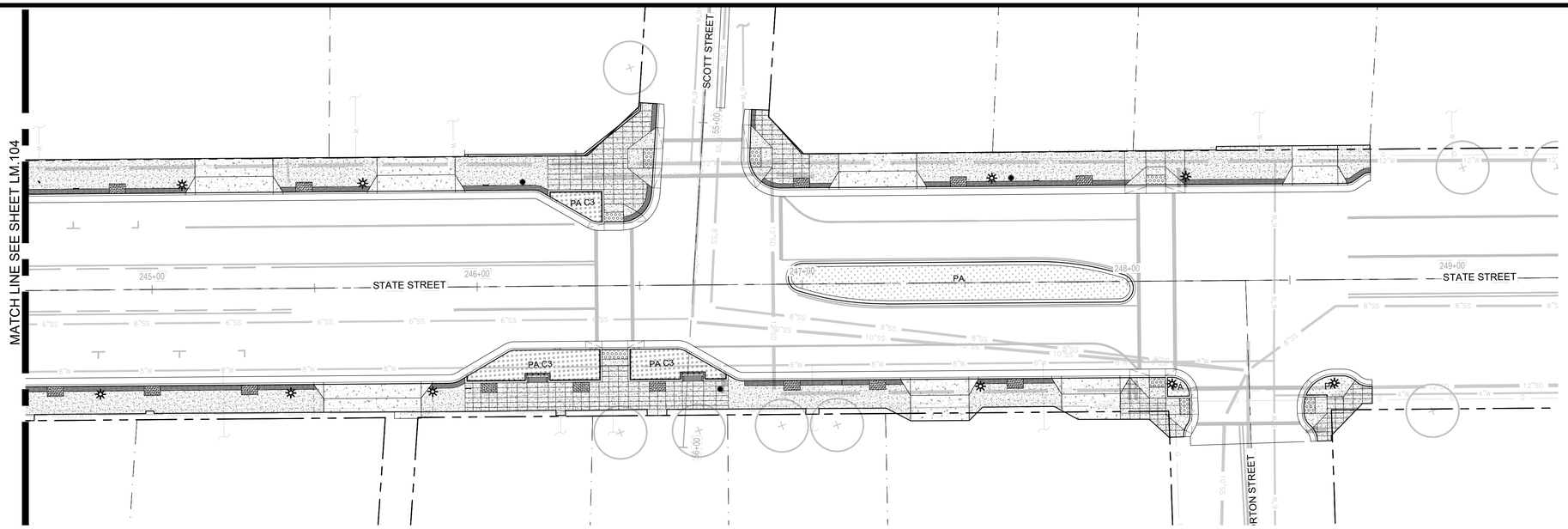
DRWN: CHKD:
W HENRY STREET
LM.104
SHEET OF

2023-02-22 11:15 AM YHU
\\WRTDESIGN.COM\SF-LDRIVE\80008333.02 UKIAH DOWNTOWN STREETSCAPE PHASE 2\4-DOCUMENTS\4-95% CD\SHEETS\LM.104 W HENRY STREET.DWG



LANDSCAPE LAYOUT NOTES

1. ALL LAYOUT WORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF ANY EXCAVATION.
2. ALL DIMENSIONS ON THE DRAWINGS ARE IN FEET AND INCHES.
3. REFER TO CIVIL HORIZONTAL CONTROL PLANS FOR CURB, GUTTER, SIDWALK CURB-RAMP AND DRIVEWAY DIMENSIONING INFORMATION, AND FOR TREE LOCATION STATION POINTS.
4. REFOR TO CIVIL GRADING PLANS FOR GRADING INFORMATION.
5. LIGHT FIXTURES SHOWN FOR REFERENCE. REFER TO CIVIL HORIZONTAL CONTROL PLANS FOR FIXTURE LOCATIONS. REFER TO ELECTRICAL LIGHTING PLANS FOR CIRCUITRY AND COMPLETE FIXTURE SPECIFICATIONS.
6. UNLESS SHOWN OTHERWISE THE FOLLOWING SHALL GOVERN THE ALIGNMENT OF PAVEMENT, HARDSCAPE AND SCORELINES: EDGES OF PAVING AND SCORING ARE PARALLEL OR PERPENDICULAR TO THE STRAIGHT LINE. FURNISHING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO PAVING AND OTHER BUILT WORK. PAVEMENT AND HARDSCAPE WORK ARE TO BE PARALLEL OR PERPENDICULAR TO THE FACE OF BUILDING. EDGES OF PAVING AND SCORELINES SHALL ALIGN TO THE FACES OR CENTERLINES OF BUILDINGS, COLUMNS AND EXISTING HARDSCAPE ELEMENTS INDICATED TO REMAIN.
7. SCORELINES, EDGES OF PAVEMENT, CHANGES IN PAVEMENT COLOR AND TEXTURE, AND HARDSCAPE ELEMENTS SHALL ALIGN AS INDICATED.
8. INSTALL SCORE MARKS AT AN EVEN SPACING AS SHOWN IN THE PLAN. ADJUST 4'-0" X 4'-0" +/- GRID TO PROVIDE EVEN SPACING BETWEEN TREE WELLS AND TO ALIGN WITH EDGES OF PAVEMENT, AS SHOWN ON PLAN.
9. INSTALL EXPANSION JOINTS WITH SEALANT AT ALL BUILDING WALLS, EDGE OF STRUCTURE, COLUMNS, ETC. LOCATE EXPANSION JOINTS IN SIDEWALK AT INTERVAL CLOSEST TO 20 FEET BUT NO MORE THAN 30 FEET APART. PLACE EXPANSION JOINTS AT THOSE INTERVALS IN LIEU OF SCORE LINES SHOWN ON PLAN.
10. ELIMINATE SCORE LINES THAT WOULD OCCUR TWO INCHES OR LESS FROM AN EXISTING WALL OR THE LIMIT OF WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATIONS OF ALL UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL NOTIFY UTILITY SERVICES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON THIS PROJECT.
12. CONTRACTOR SHALL REPAIR AT HIS/HER OWN EXPENSE ANY DAMAGE, WHETHER INSIDE OR OUTSIDE OF THE LIMIT OF WORK LINE, TO UTILITY SYSTEMS, SURFACE PAVEMENTS, FIXTURES OR STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED TO BE REMOVED OR RELOCATED AS PART OF THE PROJECT CONSTRUCTION.
13. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE WHILE WORKING IN THE VICINITY OF ACTIVE UTILITY AND DRAINAGE STRUCTURES. IN THE EVENT THAT ANY EXISTING STRUCTURES OR UTILITIES ARE DAMAGED AND THE SERVICES DISRUPTED, THE LINES SHALL BE IMMEDIATELY REPAIRED AND THE SERVICES RESTORED AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

SYMBOLS AND ABBREVIATIONS			
OC	ON CENTER	AB	AGGREGATE BASE
SCD	SEE CIVIL DRAWINGS	EQ	EQUAL
SED	SEE ELECTRICAL DRAWINGS	PA	PLANTING AREA
(E)	EXISTING	TYP	TYPICAL
(N)	NEW	CIP	CAST IN PLACE

LANDSCAPE LAYOUT LEGEND

SYMBOL	TYPE	DETAIL
●	TRASH RECEPTACLE, SURFACE MOUNT	
	BIKE RACK, SURFACE MOUNT	2 / LM.501
	BENCH, SURFACE MOUNT	3 / LM.501
✲	PEDESTRIAN-LEVEL STREET LIGHT TYPE	SED
	CIP VEHICULAR CONCRETE PAVING WITH MEDIUM BROOM FINISH, SCORE JOINT PER DETAIL	SCD 6 / LM.501
	CIP PEDESTRIAN CONCRETE PAVING WITH MEDIUM BROOM FINISH, SCORE JOINT PER DETAIL	SCD 5 & 6 / LM.501
	CIP PEDESTRIAN CONCRETE PAVING WITH MEDIUM BROOM FINISH FINISH, 1.5'X3' SCORE JOINT GRID PER DETAIL	SCD 5 & 6 / LM.501
	BRICK BAND, TYP.	4 & 5 / LM.501
	THERMOPLASTIC DECORATIVE TREATMENT AT CROSSWALKS	SCD
	TREE PIT WITH DECOMPOSED GRANITE MULCH 3'X5' OR 5'X8' PER PLAN	6 / LP.501
	PLANTER RAIL	1 / LM.501
● JP	EXISTING UTILITY POLE, SCD	
	EXISTING SPECIALTY PAVING TO REMAIN AND BE PROTECTED	
	EXISTING TREE TO REMAIN AND BE PROTECTED	
PA	PLANTING AREA	
PA C3	BIORETENTION PLANTING AREA	SCD

0 20' 40'
SCALE: 1" = 20'

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CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

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PROJ NO: 11225278
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NORTON ST
LM.105
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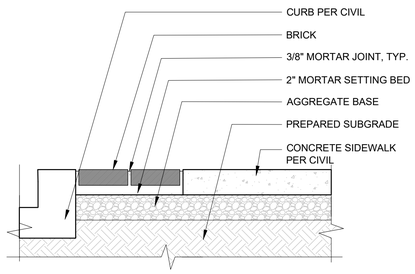
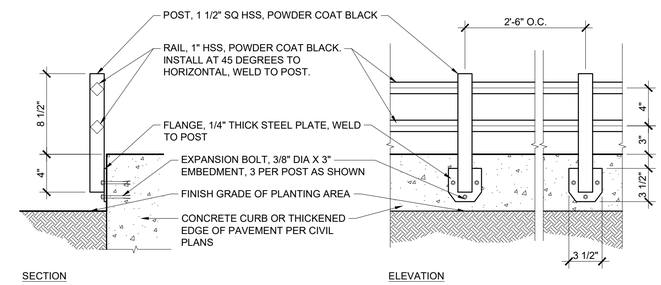


4 BRICK BAND

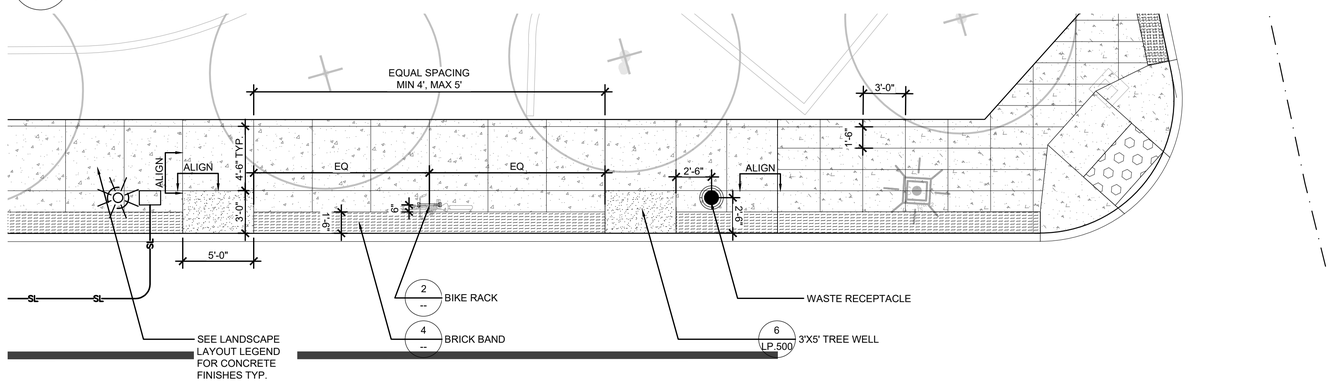
SCALE: 1" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS PER SPECIFICATIONS SHOWING ELEVATION OF EACH FENCE



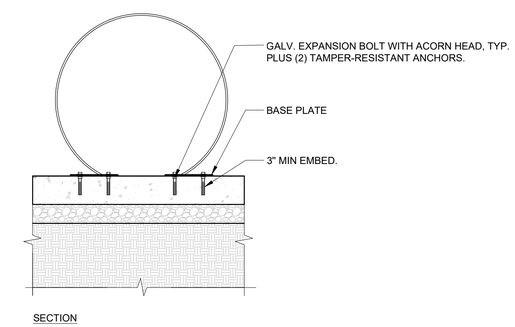
1 PLANTER RAIL AT BIOSWALE

SCALE: 1 1/2" = 1'-0"



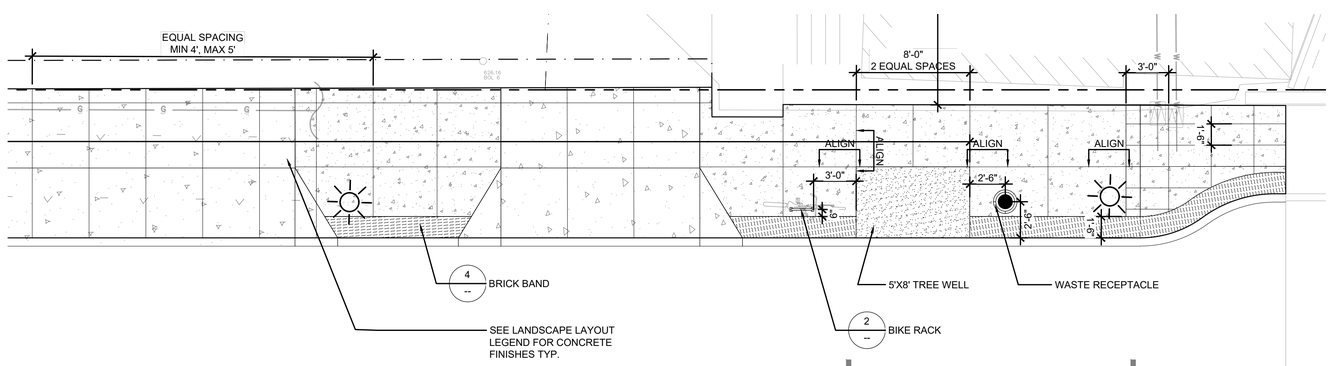
5 TYPICAL CORNER HARDSCAPE LAYOUT

SCALE: 3/16"=1'-0"



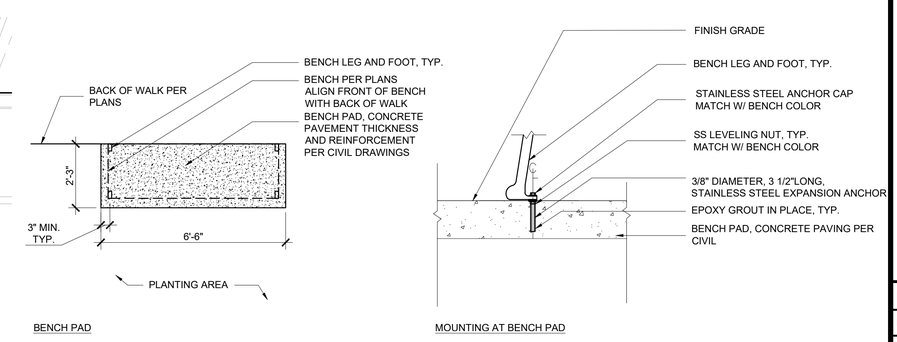
2 BIKE RACK

SCALE: 3/4" = 1'-0"



6 TYPICAL INTERIOR HARDSCAPE LAYOUT

SCALE: 3/16"=1'-0"



NOTE:
COORDINATE EXACT MOUNTING WITH MANUFACTURER

3 BENCH PAD

SCALE: 1 1/2" = 1'-0"

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ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

PROJ NO: 11225278
DRWN: CHKD:

MATERIALS DETAILS
LM.501

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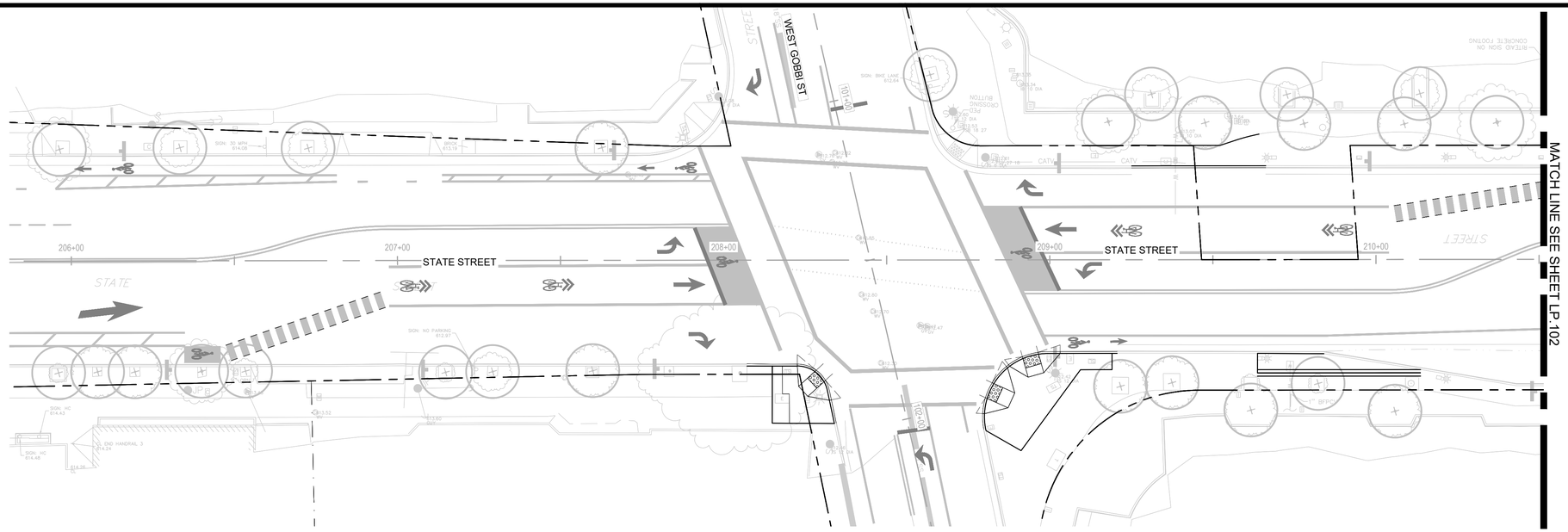

PLANTING NOTES

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3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.

4. SEE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS, EXECUTION, MAINTENANCE, AND ADDITIONAL INFO.

5. SEE DETAILS AND SPECIFICATIONS FOR PLANTING STAKING METHOD AND PLANTING SOIL REQUIREMENTS.

6. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR SHALL CONTACT ENGINEER FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN CONTRACTOR'S LIABILITY FOR MATERIALS RELOCATION.

7. GROUNDCOVERS SHALL BE SPACED PER DETAILS. SHRUBS, PERENNIALS AND GRASSES SHALL BE SPACED PER PLAN OR PER DETAIL AS REQUIRED.

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9. ALL WORK TO BE PERFORMED BY LICENSED (C27) CONTRACTORS AND EXPERIENCED WORKERS.

10. SEE PLANTING LEGEND, SPECS AND BID ALTERNATE NOTES FOR BID ALTERNATE PLANT MATERIAL AREAS.

11. SEE LANDSCAPE LAYOUT PLANS FOR GRAVEL VS. WOOD MULCH AREAS.

12. SEE CIVIL DRAWINGS FOR RAIN GARDEN AREAS.

13. FOR MULCH TYPE REFER TO LANDSCAPE LAYOUT PLANS.

PLANTING LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	WUCOLS RATING
ACE RUB	ACER RUBRUM 'OCTOBER GLOW' OCTOBER GLOW RED MAPLE	M
CER CAN	CERCIS CANADENSIS EASTERN REDBUD	M
KOE PAN	KOELREUTERIA PANICULATA GOLDEN RAIN TREE	M
PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE	L
PLA ACE	PLATANUS X ACERIFOLIA LONDON PLANE TREE	M
QUE WIS	QUERCUS WISLIZANII INTERIOR LIVE OAK	VL
ROB AMB	ROBINIA X AMBIGUA 'PURPLE ROBE' PURPLE ROBE LOCUST	L
ULM PAR	ULMUS PARVIFOLIA 'DRAKE' DRAKE CHINESE ELM	L
	EXISTING TREE TO REMAIN AND BE PROTECTED, SEE SPECIFICATIONS FOR TREE PROTECTION	

SHRUB AND GROUNDCOVER CONTAINER PLANTS AND MATERIALS

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	ACHILLEA MILLEFOLIUM 'MOONSHINE' MOONSHINE YARROW	1 GAL	L	PER PLAN
	ACHILLEA MILLEFOLIUM 'PAPRIKA' PAPRIKA YARROW	1 GAL	L	
	CALAMAGROSTIS X ACUTIFLORA 'OVERDAM' OVERDAM FEATHER REED GRASS	1 GAL	M	
	CALANDRINIA SPECTABILIS ROCK PURSLANE	1 GAL	L	
	CAREX DIVULSA BERKELEY SEDGE	1 GAL	M	
	CEANOTHUS MARITIMUS 'VALLEY VIOLET' VALLEY VIOLET CALIFORNIA LILAC	1 GAL	L	
	EPILOBIUM CANUM 'EVERETT'S CHOICE' EVERETT'S CHOICE CALIFORNIA FUCHSIA	1 GAL	L	
	ERIGERON KARVINSKIANUS 'PROFUSION' PROFUSION SANTA BARBARA DAISY	1 GAL	L	
	HEMEROCALLIS X 'MONOLD' STARBURST DOUBLE GOLD EVERGREEN DAYLILY	1 GAL	M	
	IRIS DOUGLASIANA DOUGLAS IRIS	1 GAL	L	
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL	L	
	LAVANDULA PENDUNCULATA 'GHOSTLY PRINCESS' GHOSTLY PRINCESS SPANISH LAVENDER			
	LOMANDRA LONGIFOLIA 'BREEZE' BREEZE MAT RUSH	1 GAL	L	
	SANTOLINA CHAMAECYPARISSUS LAVENDER COTTON	1 GAL	L	
	STACHYS BYZANTINA LAMB'S EARS	1 GAL	L	

0 20' 40'
SCALE: 1" = 20'

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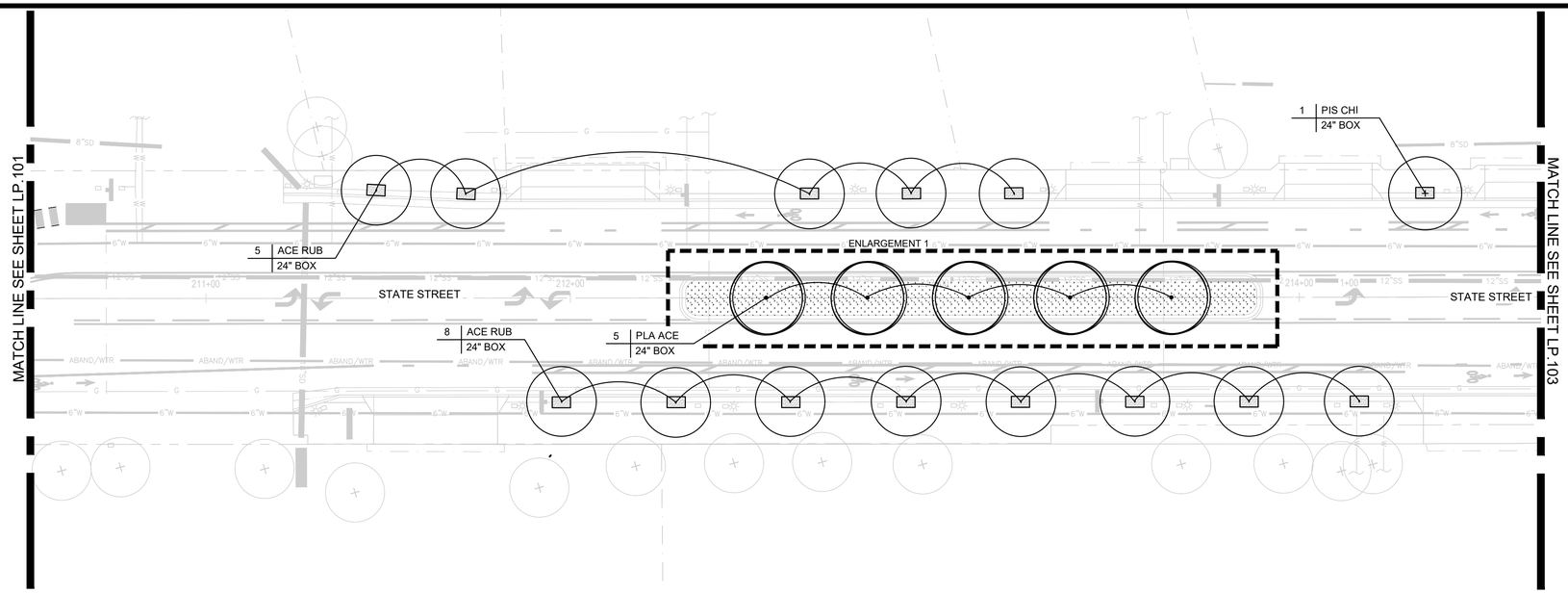

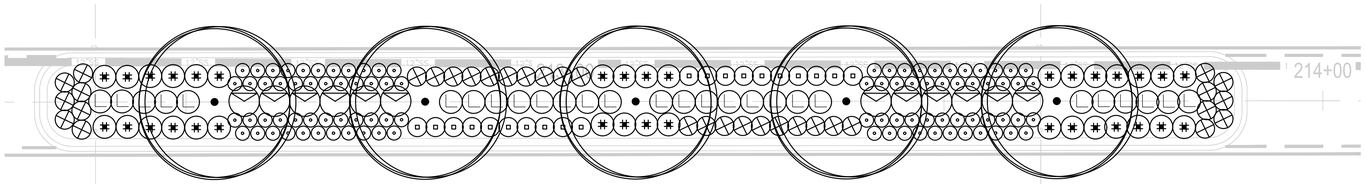

1 ENLARGEMENT 1

SCALE: 1" = 10'-0"

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PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE	L
PLA ACE	PLATANUS X ACERIFOLIA LONDON PLANE TREE	M
QUE WIS	QUERCUS WISLIZANII INTERIOR LIVE OAK	VL
ROB AMB	ROBINIA X AMBIGUA 'PURPLE ROBE' PURPLE ROBE LOCUST	L
ULM PAR	ULMUS PARVIFOLIA 'DRAKE' DRAKE CHINESE ELM	L
	EXISTING TREE TO REMAIN AND BE PROTECTED, SEE SPECIFICATIONS FOR TREE PROTECTION	

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	ERIGERON KARVINSKIANUS 'PROFUSION' PROFUSION SANTA BARBARA DAISY	1 GAL	L	
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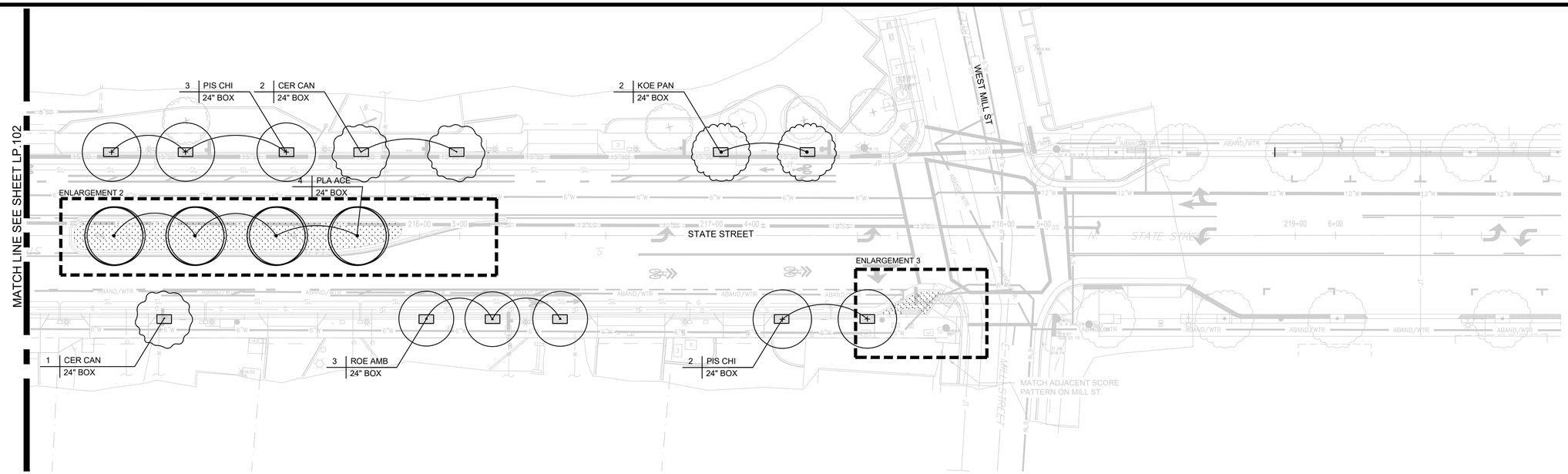
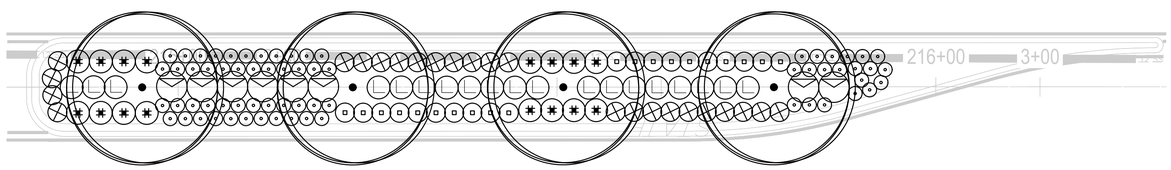
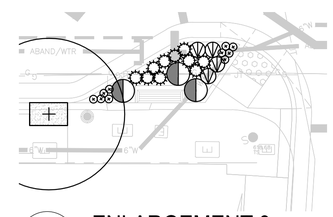




2 ENLARGEMENT 2

SCALE: 1" = 10'-0"



3 ENLARGEMENT 3

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12. SEE CIVIL DRAWINGS FOR RAIN GARDEN AREAS.

13. FOR MULCH TYPE REFER TO LANDSCAPE LAYOUT PLANS.

PLANTING LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	WUCOLS RATING
ACE RUB	ACER RUBRUM 'OCTOBER GLOW' OCTOBER GLOW RED MAPLE	M
CER CAN	CERCIS CANADENSIS EASTERN REDBUD	M
KOE PAN	KOELREUTERIA PANICULATA GOLDEN RAIN TREE	M
PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE	L
PLA ACE	PLATANUS X ACERIFOLIA LONDON PLANE TREE	M
QUE WIS	QUERCUS WISLIZANII INTERIOR LIVE OAK	VL
ROB AMB	ROBINIA X AMBIGUA 'PURPLE ROBE' PURPLE ROBE LOCUST	L
ULM PAR	ULMUS PARVIFOLIA 'DRAKE' DRAKE CHINESE ELM	L
	EXISTING TREE TO REMAIN AND BE PROTECTED, SEE SPECIFICATIONS FOR TREE PROTECTION	

SHRUB AND GROUNDCOVER CONTAINER PLANTS AND MATERIALS

SYMBOL	BOTANICAL NAME COMMON NAME	SIZE	WUCOLS RATING	SPACING
	ACHILLEA MILLEFOLIUM 'MOONSHINE' MOONSHINE YARROW	1 GAL	L	PER PLAN
	ACHILLEA MILLEFOLIUM 'PAPRIKA' PAPRIKA YARROW	1 GAL	L	
	CALAMAGROSTIS X ACUTIFLORA 'OVERDAM' OVERDAM FEATHER REED GRASS	1 GAL	M	
	CALANDRINIA SPECTABILIS ROCK PURSLANE	1 GAL	L	
	CAREX DIVULSA BERKELEY SEDGE	1 GAL	M	
	CEANOTHUS MARITIMUS 'VALLEY VIOLET' VALLEY VIOLET CALIFORNIA LILAC	1 GAL	L	
	EPILOBIUM CANUM 'EVERETT'S CHOICE' EVERETT'S CHOICE CALIFORNIA FUCHSIA	1 GAL	L	
	ERIGERON KARVINSKIANUS 'PROFUSION' PROFUSION SANTA BARBARA DAISY	1 GAL	L	
	HEMEROCALLIS X 'MONOLD' STARBURST DOUBLE GOLD EVERGREEN DAYLILY	1 GAL	M	
	IRIS DOUGLASIANA DOUGLAS IRIS	1 GAL	L	
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL	L	
	LAVANDULA PENDUNCULATA 'GHOSTLY PRINCESS' GHOSTLY PRINCESS SPANISH LAVENDER			
	LOMANDRA LONGIFOLIA 'BREEZE' BREEZE MAT RUSH	1 GAL	L	
	SANTOLINA CHAMAECYPARISSUS LAVENDER COTTON	1 GAL	L	
	STACHYS BYZANTINA LAMB'S EARS	1 GAL	L	

0 20' 40'
SCALE: 1" = 20'

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W www.ghd.com

REGISTERED PROFESSIONAL ENGINEER
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No. C28192
Exp. 9/30/23
CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

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MARK	DATE	DESCRIPTION
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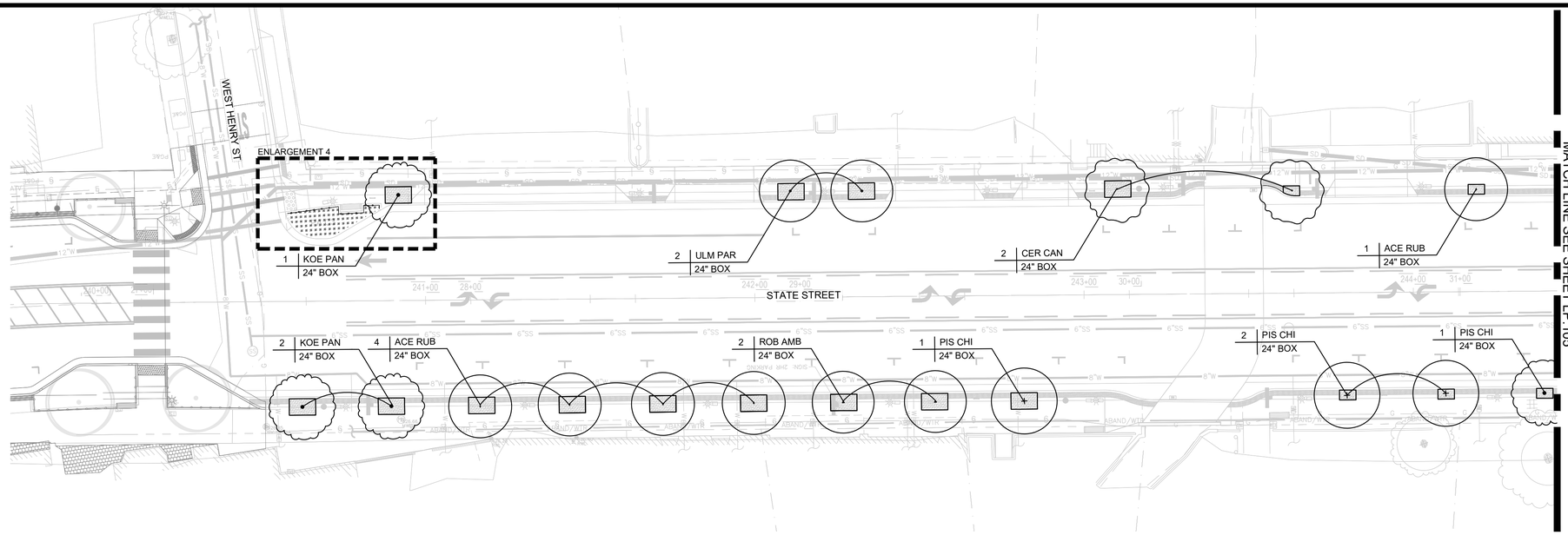
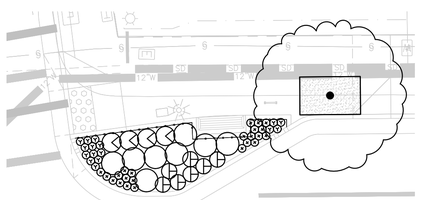
CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

PROJ NO: 11225278
DRWN: CHKD:
MILL STREET
LP.103
SHEET OF

2023-02-22 11:29 AM YHU
\\WRTDESIGN.COM\SF-LDRIVE\800008333.02 UKIAH DOWNTOWN STREETSCAPE PHASE 2\4-DOCUMENTS\4-95% CD\SHEETS\LP-103 MILL STREET.DWG





4 ENLARGEMENT 4

SCALE: 1" = 10'-0"

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PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE	L
PLA ACE	PLATANUS X ACERIFOLIA LONDON PLANE TREE	M
QUE WIS	QUERCUS WISLIZANII INTERIOR LIVE OAK	VL
ROB AMB	ROBINIA X AMBIGUA 'PURPLE ROBE' PURPLE ROBE LOCUST	L
ULM PAR	ULMUS PARVIFOLIA 'DRAKE' DRAKE CHINESE ELM	L
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	STACHYS BYZANTINA LAMB'S EARS	1 GAL	L	

0 20' 40'
SCALE: 1" = 20'

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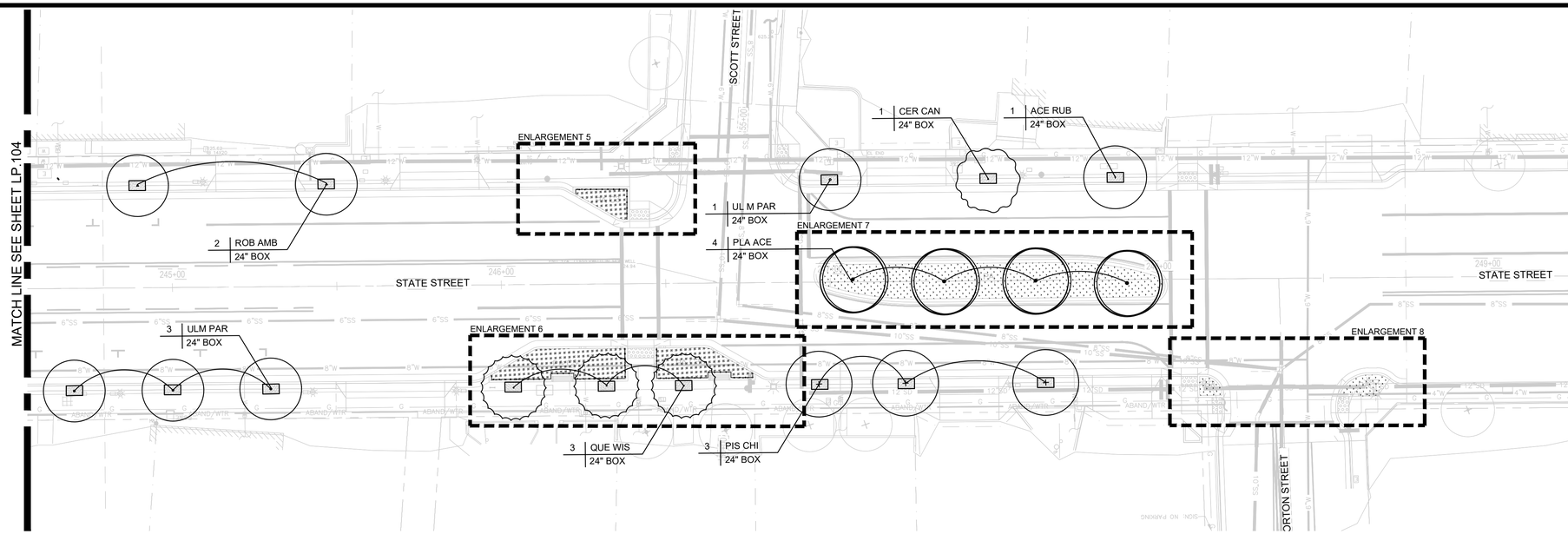
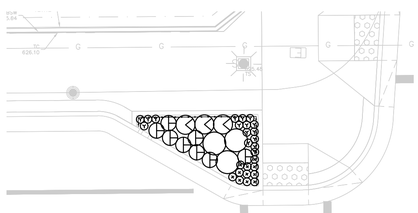
CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

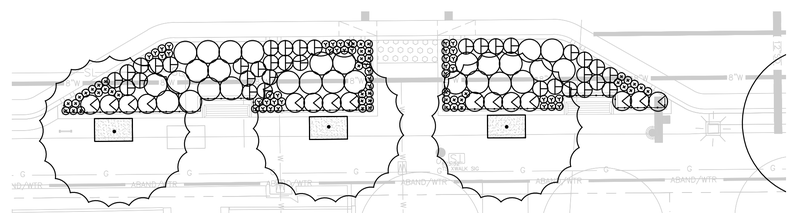
PROJ NO: 11225278
DRWN: CHKD:
W HENRY STREET
LP.104
SHEET OF

2023-02-22 11:32 AM YHU
\\WRTDESIGN.COM\SF-LDRIVE\80008333.02 UKIAH DOWNTOWN STREETSCAPE PHASE 2\4-DOCUMENTS\4-95% CD\SHEETS\LP.104 W HENRY STREET.DWG





5 ENLARGEMENT 5
SCALE: 1" = 10'-0"



6 ENLARGEMENT 6
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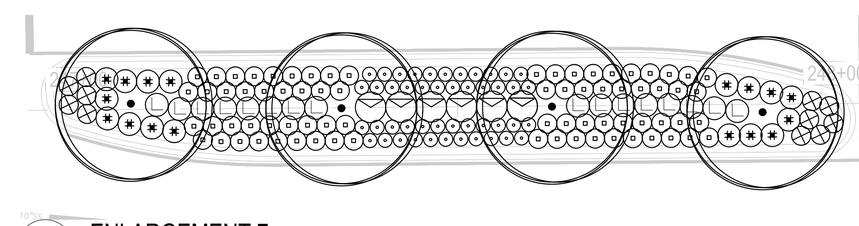

7 ENLARGEMENT 7
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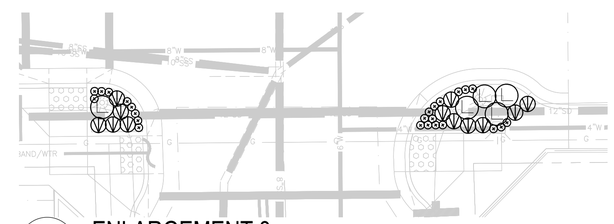

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SCALE: 1" = 20'

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND
ROAD DIET PROJECT - PHASE II

PROJ NO: 11225278
DRWN: CHKD:

NORTON STREET

LP.105

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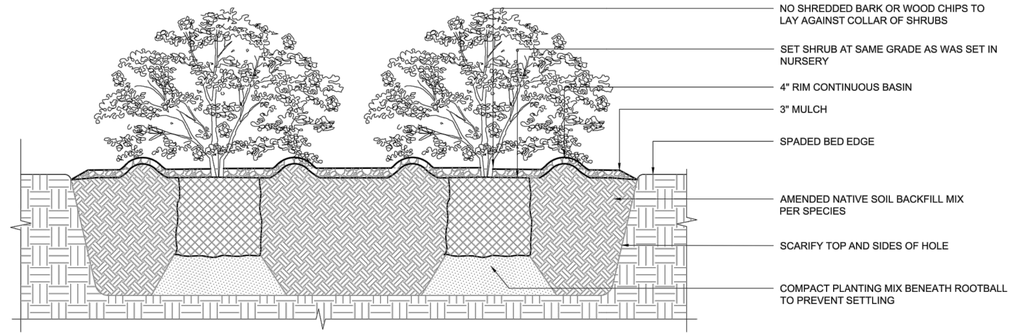
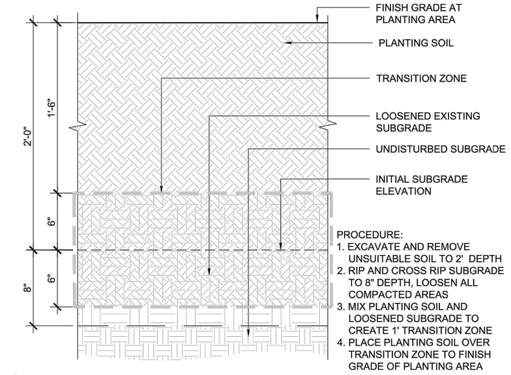


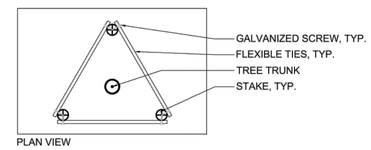
4 SHRUB PLANTING

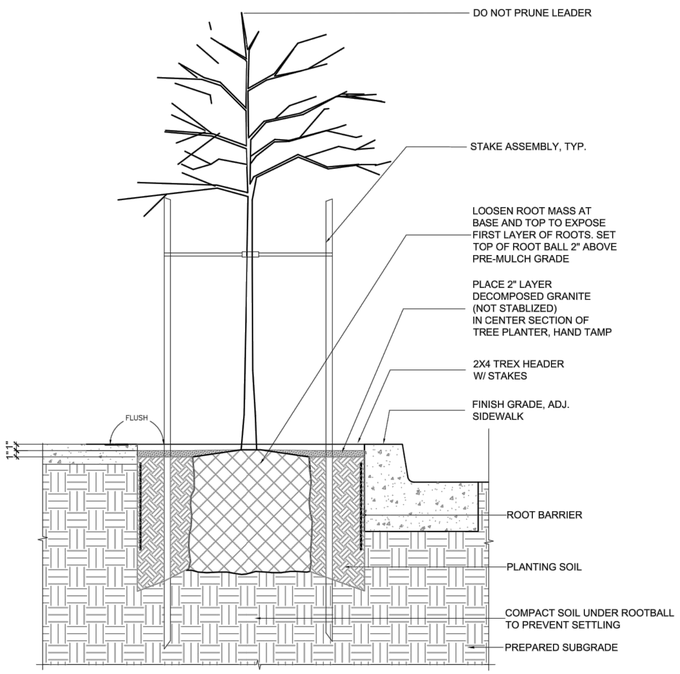
SCALE: 1" = 1'-0"



1 PLANTING SOIL PREP

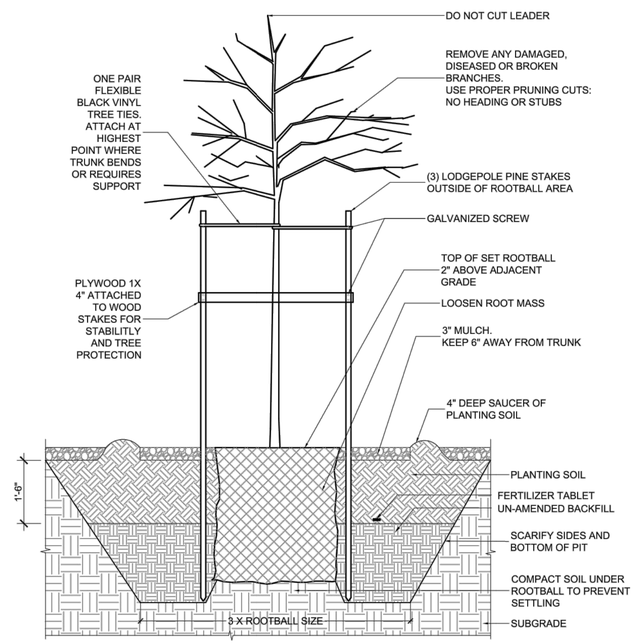
SCALE: 1 1/2" = 1'-0"





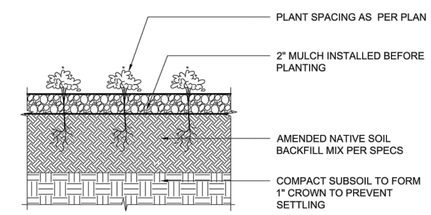
6 TREE PLANTING IN TREE WELL OR LINEAR TRENCH

SCALE: 1" = 1'-0"



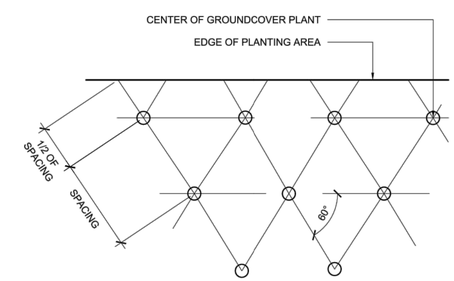
5 TREE PLANTING

SCALE: 1" = 1'-0"



2 GROUNDCOVER PLANTING

SCALE: 3/4" = 1'-0"



NOTE:

1. REFER TO PLANTING LIST FOR SIZE AND SPACING.
2. LOCATE FIRST ROW OF GROUNDCOVER ADJACENT TO PAVING.

3 GROUNDCOVER SPACING

SCALE: 1" = 1'-0"

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PROJ NO: 11225278
DRWN: CHKD:

PLANTING DETAILS
LP.501

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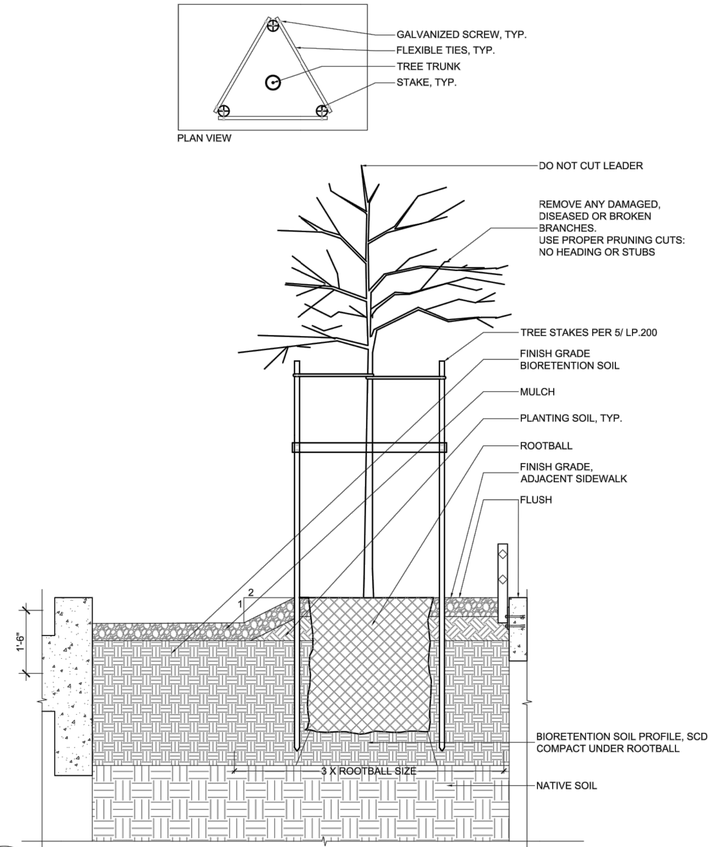

1 TREE PLANTING AT BIORETENTION PLANTING AREAS

SCALE: 1" = 1'-0"

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100% DESIGN PLANS
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

PROJ NO: 11225278

DRWN: CHKD:

PLANTING DETAILS
LP.502

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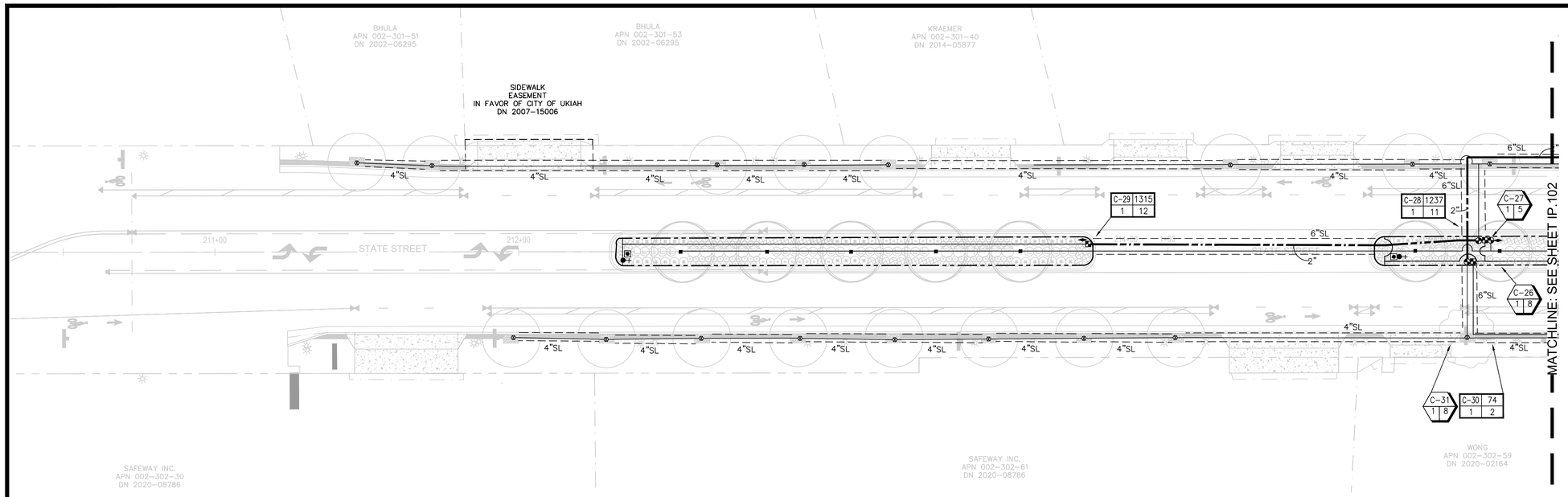
\\WRTDESIGN.COM\SF-LDRIVE\60006333.02 UKIAH DOWNTOWN STREETSCAPE PHASE 2\4-DOCUMENTS\4-95% CD\SHEETS\LP.502 PLANTING DETAILS.DWG



NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
2. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITH SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
3. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

0.75"	0-6 GPM
1"	7-12 GPM
1.25"	13-20 GPM
1.5"	21-32 GPM

5. SIZING OF LATERAL PIPE FOR DRIPLINE (12" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

0.75	0-500 FT
1"	501-1100 FT
1.25"	1101-2000 FT

0 20' 40'
SCALE: 1" = 20'

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CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

IRRIGATION PLAN

PROJ NO:	11225278
DRWN:	CHKD:

UKIAH GATEWAY

IP.101

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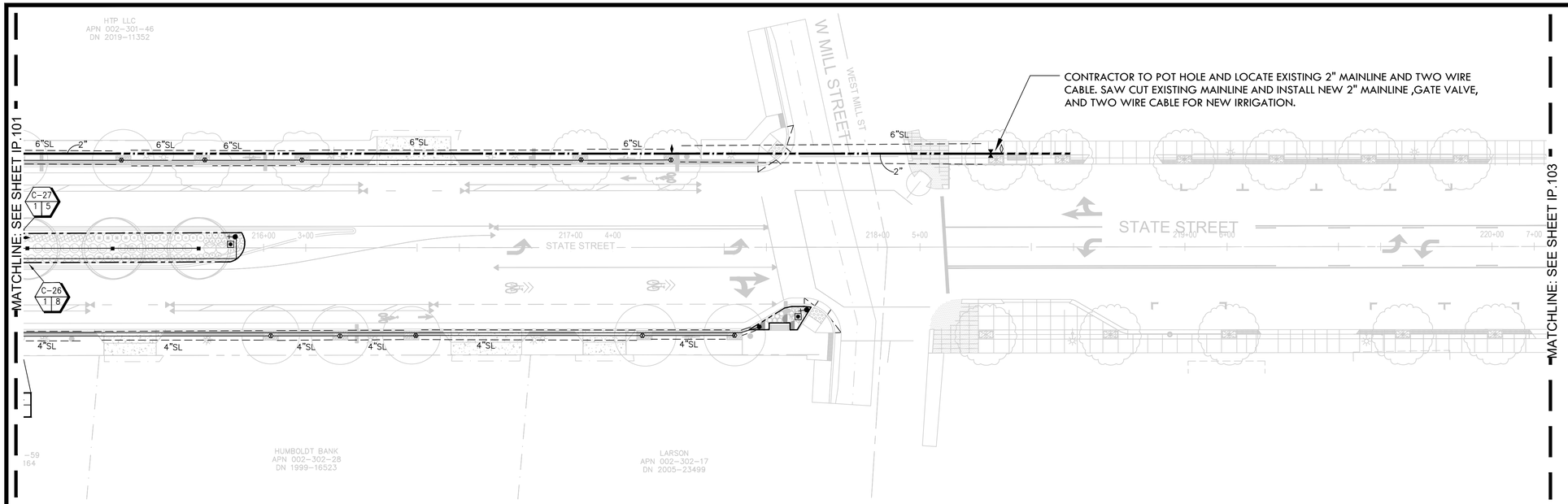

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REGISTERED PROFESSIONAL ENGINEER
RANDALL W. CROMWELL
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CIVIL
STATE OF CALIFORNIA

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DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

IRRIGATION PLAN

PROJ NO: 11225278
DRWN: CHKD:
MILLS STREET
IP.102
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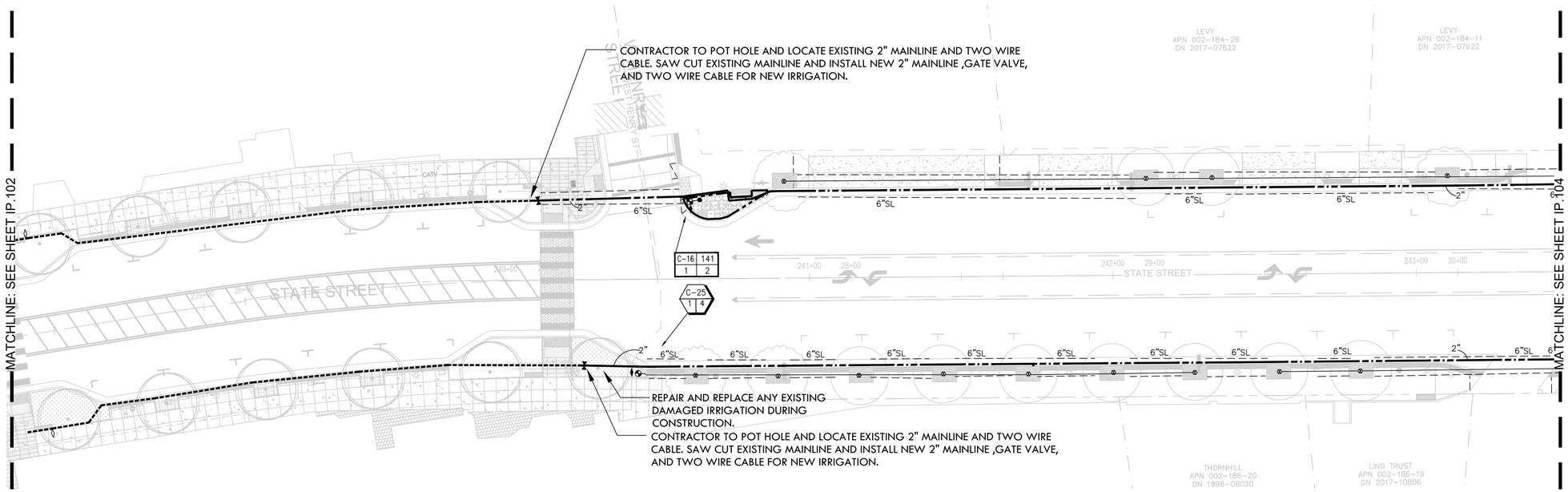

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IRRIGATION PLAN

PROJ NO: 11225278
DRWN: CHKD:

W. HENRY STREET

IP.103

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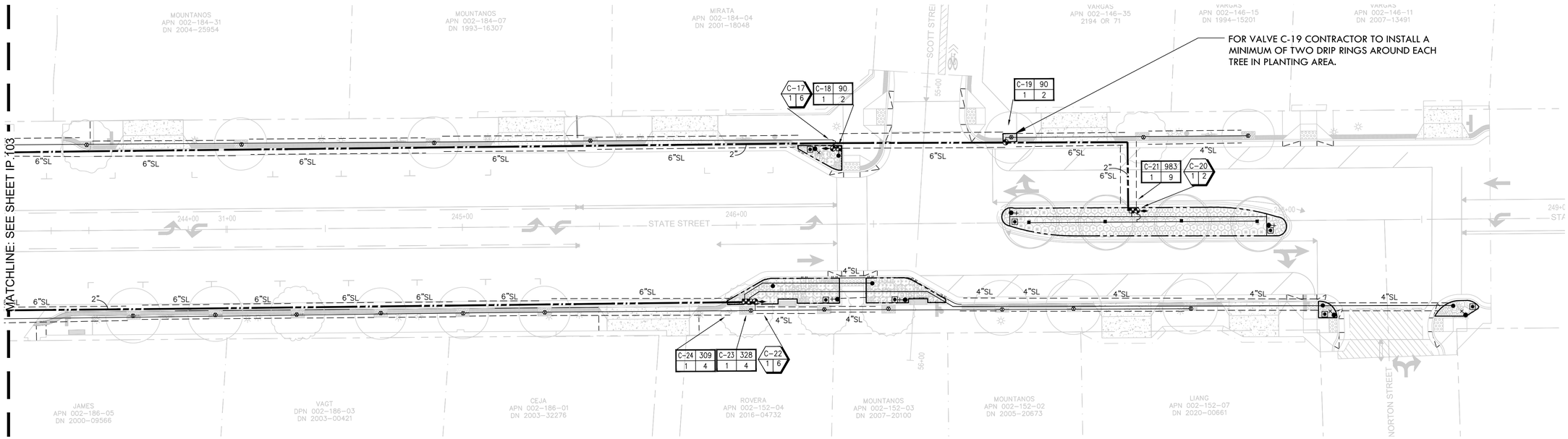

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IRRIGATION PLAN

PROJ NO: 11225278
DRWN: CHKD:
NORTON STREET
IP.104
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IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.
3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.
6. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS.
7. INSTALL 2-WIRE CABLE ALONG THE MAIN LINE. CONTACT CONTROLLER REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING.
8. INSTALL 2-WIRE CABLE WITHIN 1.25" CONDUIT WITH LONG SWEEPS IN AND OUT OF EACH VALVE BOX. SEAL ALL CONDUIT OPENINGS WITH WATERPROOF FOAM.
9. INSTALL A 14"X19" GREY ELECTRICAL PULL BOX EVERY 200' AND AT EVERY CHANGE IN DIRECTION. ONLY SPLICE TWO WIRE CABLE AT THREE WAY WIRE CONNECTIONS.
10. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. SIZE #14AWG WIRE WITH A JACKETED 2-CONDUCTOR. PREFERRED WIRE MAKE AND MODEL IS TW-CAB-14. ALL SPLICING SHALL BE MADE WITH 3-M DBR/Y-6 OR WATERPROOF SPLICE KIT.
11. DECODER GROUNDING SHALL BE PROVIDED EVERY 600 FEET, AT THE CONTROLLER AND AT THE LAST DECODER OR AT THE END OF THE 2 WIRE PATH., (ANY SPUR OVER 50 FEET AND AT THE ENDS OF COMMUNICATION WIRE PATHS). GROUND WITH A 5/8" X 8' COPPER CLAD GROUNDING ROD. #6 COPPER WIRE TO SURGE DEVICE/DECODER. INCLUDE A SURGE ARRESTOR AT EACH GROUNDING LOCATION. A SPLIT BOLT CONNECTION TO BE USED TO CONNECT THE SURGE DEVICE TO THE GROUND WIRE WITH A DBR/Y-6 WATERPROOF CONNECTOR.
12. SPLICING OF JACKETED 2-WIRE IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 24" LONG COIL OF WIRE AT EACH SPLICE AND A 24" LONG EXPANSION LOOP IN ALL PULL BOXES.
13. INSTALL BLACK PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.
14. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.
15. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).
16. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.
17. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
18. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
19. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.
20. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
21. IRRIGATION DEMAND: REFER TO PLANS.
22. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.
23. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.
24. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.
25. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
26. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
27. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.
29. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

WATER CALCULATION:

WATER USE ESTIMATION

WATER TYPE	POTABLE
SITE ETO=	40.9

REGULAR LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/ YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE
1	SHRUBS AND GROUNDCOVER	LOW	0.3	DRIP	0.81	0.370	3,959	1,466	37,182	0.11	49.71	31%
2	BIORETENTION	MOD	0.5	DRIP	0.81	0.617	739	456	11,568	0.04	15.46	6%
3	TREES	LOW	0.3	BUBBLER	0.81	0.370	7,900	2,926	74,196	0.23	99.19	63%
					TOTALS		12,598	4,848	122,946	0.38	164.37	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME											
3					1							0%
					TOTALS							0%

MAWA	GALLONS/YR	143,757
	ACRE FEET/YR	0.44
	HCF/YR	192.19

ETWU	GALLONS/YR	122,946
	ACRE FEET/YR	0.38
	HCF/YR	164.37

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
81.0%	0.31	YES

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION
0.55= ET ADJUSTMENT FACTOR
LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION
PF = PLANT FACTOR FOR HYDROZONES
HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

ETAF Calculations

REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	4,848
TOTAL AREA	12,598
AVG. ETAF	38.49%

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
	DB-30-PC-CV	TORO BUBBLER, MIN. 2 PER TREE. REFER TO BUBBLER DETAIL FOR QUANTITY OF BUBBLERS PER TREE SIZE.	0.5	30	TRICKLE
	570Z-4P-PRX-COM/ SB-180-PC2	TORO POP-UP STREAM BUBBLER (TREES IN DG) 2 PER TREE	0.46	30	STREAM
	T-YD-500-34	TORO DRIPLINE AIR RELIEF VALVE			
	WLT-0500-T	NDS SCH 40 BALL VALVE OR APPROVED EQUAL			
	570-DRIP-IND	TORO POP-UP DRIPLINE INDICATOR WITH SIDE INLET.			
	P-220-26 SERIES	TORO REMOTE CONTROL VALVE			
	DZK-700-MF	TORO REMOTE CONTROL VALVE WITH A PRESSURE REGULATOR (40 PSI) AND A 1" FILTER			
	33 DNP	RAIN BIRD QUICK COUPLING VALVE			
	-	EXISTING RAIN BIRD QUICK COUPLING VALVE			
	LGT-XX-SS	LEEMCO STAINLESS STEEL GATE VALVE (LINE SIZE)			
	--	EXISTING RAIN MASTER EAGLE PLUS CONTROLLER IN A STAINLESS STEEL PEDESTAL ENCLOSURE			
	TW-D-1	RAIN MASTER SINGLE STATION DECODER (1 PER VALVE)			
	TW-D-2	RAIN MASTER TWO STATION DECODER (USE WHEN MORE THAN 1 OR MORE VALVE IS CLUSTERED TOGETHER)			
	NOT SHOWN ON PLANS	ROUTE RAIN MASTER TWO WIRE CABLE TO ALL REMOTE CONTROL VALVES. SIZE #14AWG WIRE WITH A JACKETED 2-CONDUCTOR. PREFERRED WIRE MAKE AND MODEL IS TW-CAB-14. ALL SPLICING SHALL BE MADE WITH 3-M DBR/Y-6 WATERPROOF SPLICE KITS OR APPROVED EQUAL. INSTALL 2 WIRE CABLE WITHIN 1.25" SCH 40 ELECTRICAL CONDUIT. PULL BOXES SHALL BE LOCATED EVERY 200' NO SPLICES ARE ALLOWED BETWEEN VALVES. REFER TO DETAIL FOR INSTALLATION INSTRUCTIONS.			

CONTROLLER AND STATION NUMBER
FLOW (GPM)
REMOTE CONTROL VALVE SIZE (IN INCHES)
ASSOCIATED REMOTE CONTROL VALVE

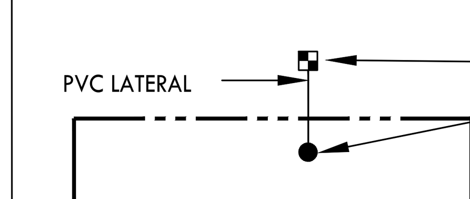
CONTROLLER AND STATION NUMBER
AREA (SQ. FT.)
FLOW (GPM)
REMOTE CONTROL VALVE SIZE (IN INCHES)
ASSOCIATED REMOTE CONTROL VALVE

MAIN LINE: 1.5" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.

LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.

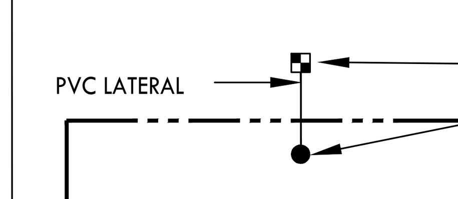
DRIPLINE LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.

SLEEVING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.



DRIPLINE REMOTE CONTROL VALVE

DRIP ZONE: TORO DL2000 SERIES DRIPLINE WITH TRI-LOC FITTINGS, PART #RGP-212. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 12" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0-10 GPM, 1.25": 11-20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.



DRIPLINE REMOTE CONTROL VALVE

APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY WHEN DRIP ZONE IS LESS THAN 3 GPM AND NO PVC SUPPLY/EXHUST HEADERS ARE NEEDED. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION.

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND
ROAD DIET PROJECT - PHASE II

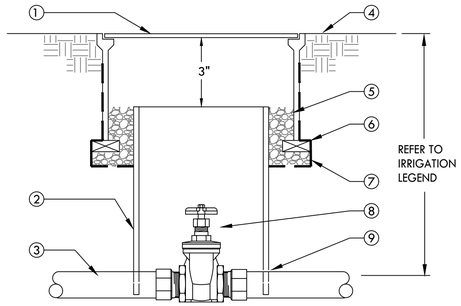
IRRIGATION LEGEND AND NOTES

PROJ NO: 11225278
DRWN: CHKD:

IP.500

SHEET X OF 99

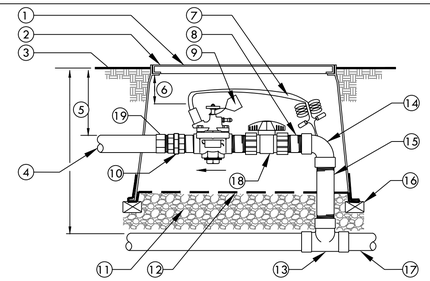
2023-02-21 2:17 PM DMUNGER
S:\2022\22-019 UKIAH STREETSCAPE PHASE 2\CAD\2-22-23\IP-105-IP-107 IRRIGATION L N D.DWG



1. 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
2. 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
3. PVC MAIN LINE.
4. FINISH GRADE.
5. PEA GRAVEL OR 3/4" DRAIN ROCK - 4" DEEP (NO SOIL IN VALVE BOX).
6. BRICK-2 TOTAL.
7. 19 GAUGE 1/2" SQUARE WIRE MESH. WRAP UP SIDES OF BOX.
8. GATE VALVE WITH X-TOP HANDLE.
9. MALE ADAPTER. REFER TO LEGEND FOR FITTING TYPE.

1 GATE VALVE

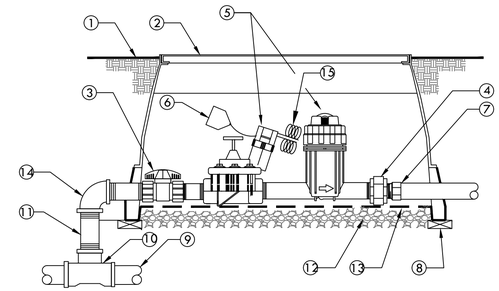
SCALE: NONE



1. REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS).
2. USE A NDS PRO SERIES 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES. FOR 1.5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" ROUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES. GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX- NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. FINISH GRADE.
4. PVC LATERAL LINE.
5. REFER TO IRRIGATION SPECS.
6. 3" [75mm] MIN, 6" [150mm] MAX.
7. VALVE CONTROL WIRE- PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
8. SCHEDULE 80 PVC NIPPLE (3 TOTAL).
9. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
10. SCHEDULE 80 PVC THREADED UNION.
11. PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
13. SCHEDULE 40 OR 80 PVC TEE. REFER TO LEGEND FOR TYPE.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. SCHEDULE 80 PVC NIPPLE- LENGTH AS REQUIRED.
16. BRICK-1 EACH CORNER.
17. PVC MAIN LINE.
18. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
19. SCHEDULE 40 MALE ADAPTER

2 REMOTE CONTROL VALVE

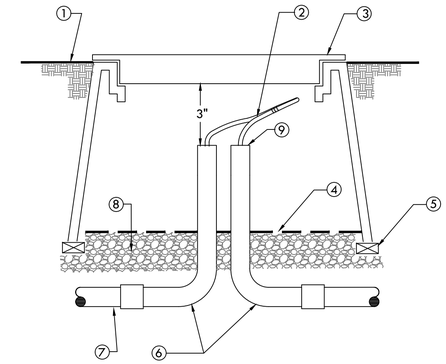
SCALE: NONE



1. FINISH GRADE.
2. RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX- NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
4. SCHEDULE 80 PVC THREADED UNION.
5. REMOTE CONTROL VALVE DRIP ZONE KIT. (SHALL INCLUDE VALVE, FILTER AND A 40 PSI PRESSURE REDUCING VALVE)
6. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
7. SCHEDULE 40 MALE ADAPTER
8. BRICK-1 EACH CORNER.
9. PVC MAIN LINE.
10. SCHEDULE 40 OR 80 PVC TEE. REFER TO LEGEND FOR TYPE.
11. SCHEDULE 80 PVC NIPPLE-(4-TOTAL) LENGTH AS REQUIRED.
12. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
13. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. VALVE CONTROL WIRE- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.

3 REMOTE CONTROL VALVE (DRIPZONE)

SCALE: NONE



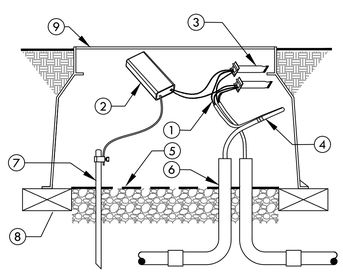
1. FINISH GRADE
2. 24" LOOP OF TWO WIRE CABLE.
3. GREY RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. HEAT BRAND "PB" INTO LID.
4. 18 GAUGE 1/2" [13mm] SQUARE STAINLESS STEEL WIRE MESH.
5. BRICK-ONE ON EACH CORNER
6. SCHEDULE 40 PVC SWEEP ELLS
6. SCHEDULE 40 U.L. LISTED PVC CONDUIT
7. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
8. SEAL ALL CONDUIT OPENINGS WITH WATERPROOF FOAM.

4 IRRIGATION TWO WIRE PULL BOX

SCALE: NONE

NOTE:

TWO WIRE DECODER SYSTEMS MUST BE PROPERLY GROUNDED IN ORDER TO PROTECT AGAINST LIGHTNING SURGES. THE COMMUNICATION CABLE MUST BE GROUNDED NO FURTHER THAN 600' FROM ANY DECODER. THE SURGE DEVICE MUST BE A RAIN MASTER TW-LA-1. THE MINIMUM DISTANCE BETWEEN THE SURGE ARRESTOR AND THE GROUND ROD SHOULD BE 3' (91.4CM). RAIN MASTER RECOMMENDS A SPLIT BOLT CONNECTION TO BE USED TO CONNECT THE SURGE DEVICE TO THE GROUND WIRE WITH A 3M DBR/Y-6 WATERPROOF CONNECTOR. INSTALL EACH GROUND R0D 4 - 8' FROM LIGHTNING ARRESTOR. DO NOT INSTALL WITHIN 8' FROM ANOTHER DECODER.



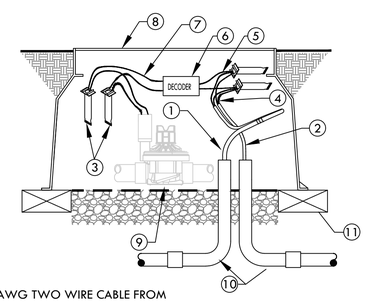
1. 2-WIRE PATH JACKETED/ TWISTED FROM CONTROLLER. ALLOW A 24" SLACK PER DECODER
2. RAIN MASTER LIGHTNING ARRESTOR (MODEL TW-LA-1). 1 EVERY 600' FROM STARTING FROM CONTROLLER.
3. 3M DBR/Y-6 OR APPROVED EQUAL WATERPROOF SPLICE KIT (4 TOTAL)
4. 2-WIRE PATH JACKETED/ TWISTED TO NEXT DECODER
5. 18 GAUGE 1/2" [13mm] SQUARE STAINLESS STEEL WIRE MESH.
6. 1.25" CONDUIT FOR 2 WIRE CABLE WITH LONG SWEEPS IN AND OUT OF EACH VALVE BOX. SEAL ALL CONDUIT OPENINGS WITH WATERPROOF FOAM.
7. INSTALL 5/8" DIAMETER COPPER GROUND ROD OF 8' LENGTH.
8. BRICK-ONE ON EACH CORNER
9. GREY RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. HEAT BRAND "GR" INTO LID.

5 LIGHTNING ARRESTOR

SCALE: NONE

NOTE:

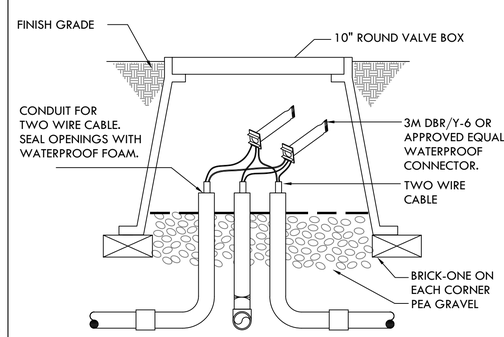
1. ALL DECODERS SHALL HAVE A VALVE NUMBER ADDRESSED AT CONTROLLER PRIOR TO INSTALLATION.
2. USE U.F. SAFETY CABLE STRIPPER BY KING INNOVATION (MODEL NUMBER 46200) FOR ALL TWO-WIRE SPLICE CONNECTIONS.



1. #14AWG TWO WIRE CABLE FROM CONTROLLER. REFER TO IRRIGATION NOTES FOR MODEL NUMBER OF WIRE. ALLOW A 24" SLACK PER DECODER. USE ELECTRICAL TAPE TO HOLD SLACK CABLES TOGETHER.
2. TWO WIRE CABLE TO NEXT DECODER
3. 3M DBR/Y-6 OR APPROVED EQUAL WATERPROOF SPLICE KIT (4 TOTAL)
4. A MAXIMUM OF 4" OF WIRE SHALL BE STRIPPED FROM TWO WIRE CABLE WHEN SPLICING AT DECODERS.
5. CONNECT CORRECT DECODER WIRES TO TWO WIRE CABLES.
6. DECODER
7. CONNECT CORRECT DECODER WIRES TO VALVE SOLENOID WIRES
8. VALVE BOX. REFER TO REMOTE CONTROL VALVE DETAIL FOR INSTALLATION INSTRUCTIONS.
9. REMOTE CONTROL VALVE. REFER TO REMOTE CONTROL VALVE DETAIL FOR INSTALLATION INSTRUCTIONS.
10. 1.25" CONDUIT FOR 2 WIRE CABLE WITH LONG SWEEPS IN AND OUT OF EACH VALVE BOX. SEAL ALL CONDUIT OPENINGS WITH WATERPROFF FOAM.
11. BRICK-ONE ON EACH CORNER

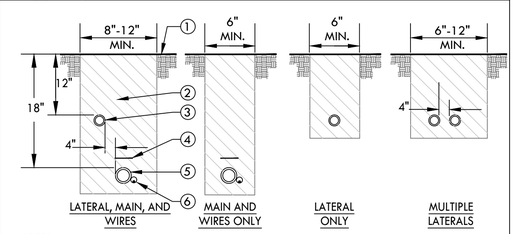
6 DECODER WIRING IN CONDUIT

SCALE: NONE



7 2-WIRE SPLICE BOX AT MAIN LINE TEE OR 3 WAY WIRE BRANCH

SCALE: NONE



NOTES:

1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.
2. REUSE SALVAGED EXCAVATED FILL AND COMPACT TO ORIGINAL DENSITY IN LANDSCAPE AREAS. ALL OTHER AREAS SHALL BE AT 95% COMPACTION. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS (ANYTHING LARGER THAN 2"), CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS.
3. WHEN 12" POP-UP SPRINKLER HEADS ARE USED, INCREASE THE DEPTH OF LATERAL TO 18" AT THE SPRINKLER LOCATION ONLY.

1. FINISH GRADE.
2. CLEAN BACKFILL MATERIAL.
3. LATERAL LINE.
4.
5. MAIN LINE.
6. TWO WIRE CABLE IN CONDUIT

8 TRENCHING

SCALE: NONE

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MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

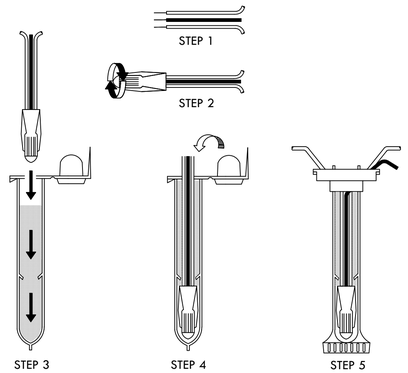
IRRIGATION DETAILS

PROJ NO: 11225278
DRWN: CHKD:

IP.501

SHEET X OF 99

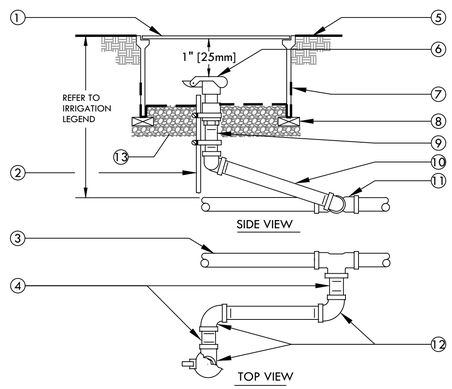
2023-02-21 2:17 PM DMUNGER
S:\2022\22-019 UKIAH STREETSCAPE PHASE 2\CAD\2-22-23\IP-105-IP-107 IRRIGATION L,N,D.DWG



NOTE:
MAXIMUM # OF WIRES PER CONNECTOR:
- 3-#14 GAUGE
- 2-#12 GAUGE

INSTRUCTIONS:
1. STRIP WIRES APPROXIMATELY 1/2" FROM ENDS TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT THE BOTTOM OF THE TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY THAT IT IS SECURED.

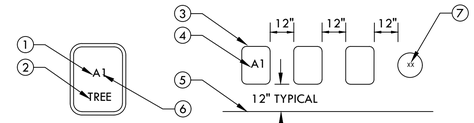
1 WEATHERPROOF WIRE SPLICE ASSEMBLY
SCALE: NONE



1. 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
2. 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
3. PVC MAIN LINE.
4. 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
5. FINISH GRADE.
6. QUICK COUPLING VALVE.
7. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
8. BRICK - 2 TOTAL.
9. SCHEDULE 80 PVC THREADED NIPPLE.
10. 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
11. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
12. SCHEDULE 80 PVC THREADED 90° ELL.
13. PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).

NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

2 QUICK COUPLING VALVE
SCALE: NONE



VALVE IDENTIFICATION

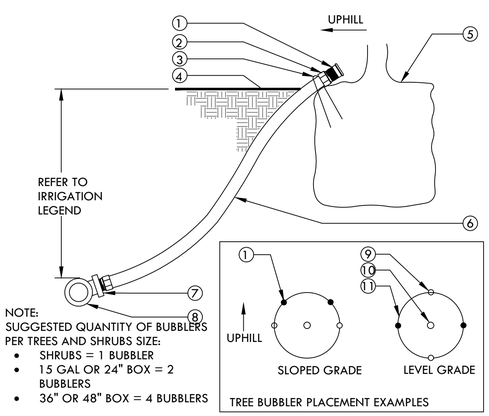
TOP VIEW OF BOXES

1. CONTROLLER ID.
2. ALL TREE VALVES TO HAVE TREE BRANDED INTO LID.
3. RECTANGULAR VALVE BOX.
4. HEAT BRAND VALVE TYPE PER TABLE OR CONTROLLER ID AND STATION NUMBER INTO LID.
5. EDGE OF LAWN, WALK, FENCE, CURB, ETC.
6. STATION NUMBER.
7. ROUND VALVE BOX FOR QCV AND GATE VALVE. HEAT BRAND VALVE TYPE INTO INTO LID PER TABLE.

ITEMS TO BRAND:	BRAND CODE
GATE VALVE	GV
PRESSURE REDUCER	PRV
MASTER VALVE	MV
FLOW SENSOR	FS
HYDROMETER	HM
MAIN LINE AIR RELIEF	ARV
REMOTE CONTROL VALVE	A___
QUICK COUPLER	QC
SPLICE BOX	SB
PULL BOX	PB
LIGHTNING ARRESTOR	LA
GROUND ROD	GR

INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

3 VALVE BOX INSTALLATION
SCALE: NONE

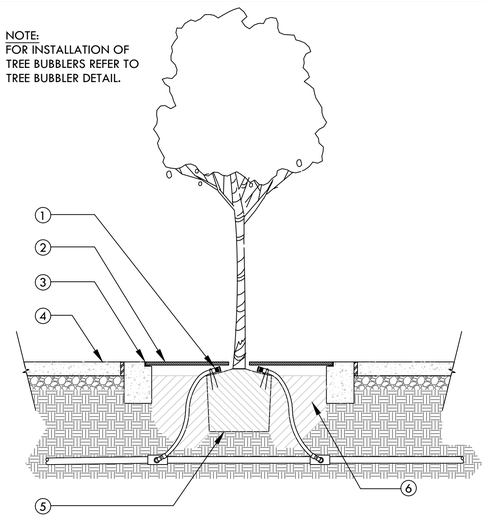


NOTE:
SUGGESTED QUANTITY OF BUBBLERS PER TREES AND SHRUBS SIZE:
- SHRUBS = 1 BUBBLER
- 15 GAL OR 24" BOX = 2 BUBBLERS
- 36" OR 48" BOX = 4 BUBBLERS

1. BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).
2. 1/2" SCH. 40 MALE ADAPTER.
3. 6" STAPLE.
4. FINISH GRADE.
5. TREE OR SHRUB ROOTBALL.
6. 1/2" IPS FLEXIBLE PVC.
7. PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.
8. PVC LATERAL LINE.
9. TREE STAKES.
10. TREE OR SHRUB.
11. EDGE OF ROOTBALL (TYPICAL).

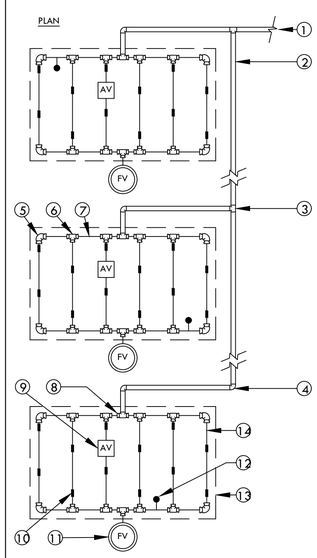
4 TREE AND SHRUB BUBBLER
SCALE: NONE

NOTE:
FOR INSTALLATION OF TREE BUBBLERS REFER TO TREE BUBBLER DETAIL.



1. BUBBLER
2. TREE GRATE
3. TREE GRATE FRAME
4. CITY SIDEWALK
5. ROOT BALL
6. BACK FILL MIX

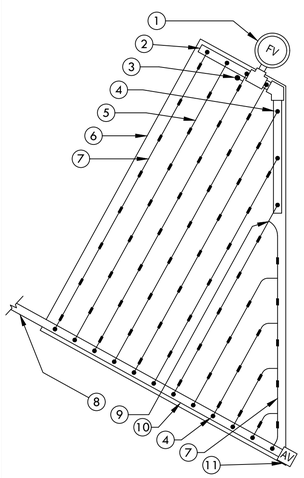
5 TREE BUBBLER WITHIN TREE GRATE
SCALE: NONE



1. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. PVC TEE (SxSxS).
4. PVC ELL (SxS).
5. TORO TRI-LOC ELL (TL-E).
6. TORO TRI-LOC TEE (TL-T).
7. BLANK 5/8" [16mm] POLY TUBING AT SUPPLY AND FLUSH END OF EACH ISLAND.
8. REFER TO DRIPLINE TO PVC CONNECTION DETAIL.
9. AIR/VACUUM RELIEF VALVE PLUMBED TO TUBING AT HIGH POINT.
10. DRIPLINE LATERAL.
11. MANUAL FLUSH VALVE PLUMBED TO TUBING AT LOW POINT.
12. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
13. ISLAND PERIMETER.
14. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.

NOTE:
1. THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

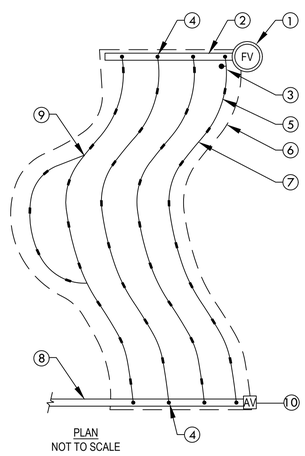
6 TORO DL 2000 ISLAND LAYOUT
SCALE: NONE



1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
4. MANIFOLD-TO-ELBOW CONNECTION.
5. DRIPLINE LATERAL.
6. AREA PERIMETER.
7. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
8. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
9. TORO TRI-LOC TEE (TL-T)
10. PVC SUPPLY MANIFOLD.
11. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

7 TORO DL2000 TRIANGULAR LAYOUT
SCALE: NONE



1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
4. MANIFOLD-TO-ELBOW CONNECTION.
5. DRIPLINE LATERAL.
6. AREA PERIMETER.
7. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
8. PVC SUPPLY LINE/HEADER FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
9. TORO TRI-LOC TEE (TL-T)
10. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

8 TORO DL2000 ODD CURVE LAYOUT
SCALE: NONE

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www.rmainc@mac.com

REGISTERED PROFESSIONAL ENGINEER
RUSSELL W. SCHMALZ
No. C87192
Exp. 9/30/23
CIVIL
STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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100% DESIGN PLANS
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION

ISSUE

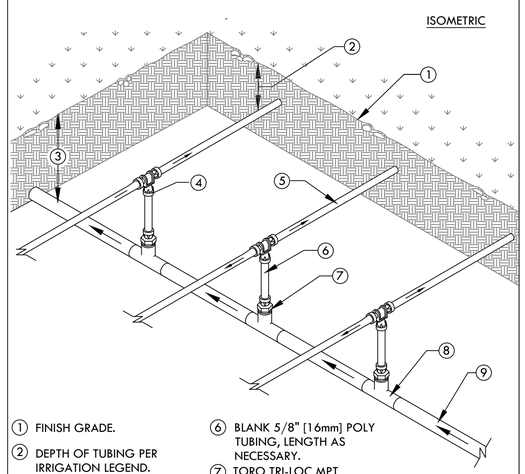
CITY OF UKIAH DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

IRRIGATION DETAILS

PROJ NO: 11225278
DRWN:
CHKD:

IP.502
SHEET X OF 99

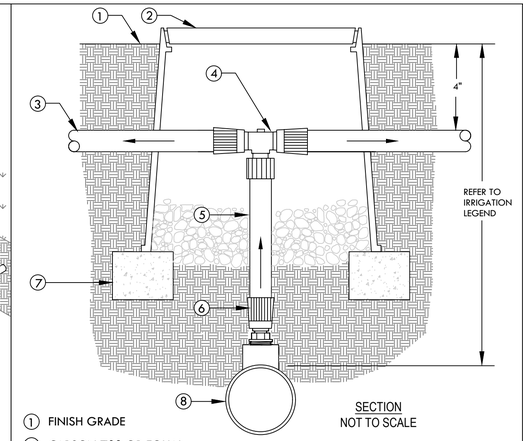
2023-02-21 2:17 PM DMUNGER
S:\2022\22-019 UKIAH STREETSCAPE PHASE 2\CAD\22-22-23\IP-105-IP-107 IRRIGATION L,N,D.DWG



1. FINISH GRADE.
2. DEPTH OF TUBING PER IRRIGATION LEGEND.
3. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND
4. TORO TRI-LOC TEE (TL-T)
5. DRIPLINE TUBING.
6. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
7. TORO TRI-LOC MPT ADAPTER (TL-M50)
8. PVC TEE (SxSxT) WITH 1/2" [13mm] FPT OUTLET.
9. PVC LATERAL LINE FROM REMOTE CONTROL VALVE.

NOTE:
THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.

1 TORO DL 2000 CENTER FEED MANIFOLD
SCALE: NONE

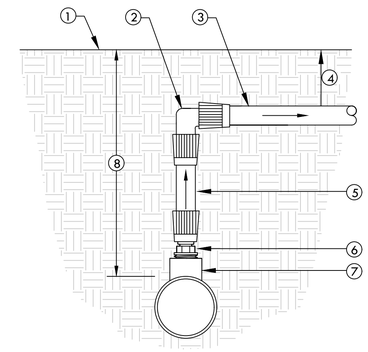


SECTION
NOT TO SCALE

1. FINISH GRADE
2. CARSON 708 OR EQUAL. COLOR: BLACK. USE PURPLE FOR RECYCLED WATER SYSTEMS.
3. DRIPLINE TUBING
4. TORO TRI-LOC TEE
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. BRICK (1 OF 2)
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. PVC LATERAL LINE SUPPLY. MINIMUM SIZE TO BE 1" UNLESS SIZED DIFFERENTLY ON DRAWINGS. USE SCH 40 PVC 1"x1"x1/2" TEE OR 90° ELBOW.

NOTE:
USE ONLY WHEN THE TOTAL LENGTH OF DRIP LINE SERVICED FROM THIS PVC CONNECTION IS LESS THAN 300 FT.

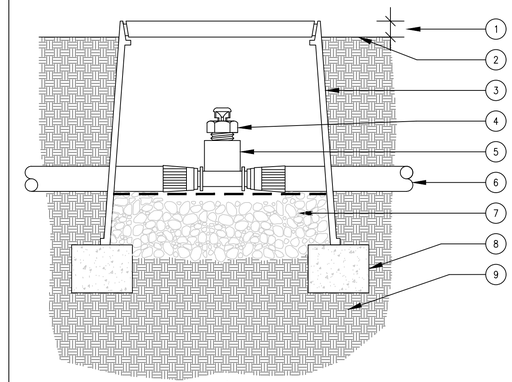
2 DRIPLINE TO PVC CONNECTION-SINGLE SOURCE DRIP AREAS ONLY
SCALE: NONE



SECTION/ELEVATION
NOT TO SCALE

1. FINISH GRADE
2. TORO TRI-LOC ELBOW (TL-E)
3. DRIPLINE TUBING
4. DEPTH OF TUBING PER IRRIGATION LEGEND.
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND

3 DRIPLINE MANIFOLD TO ELBOW CONNECTION
SCALE: NONE

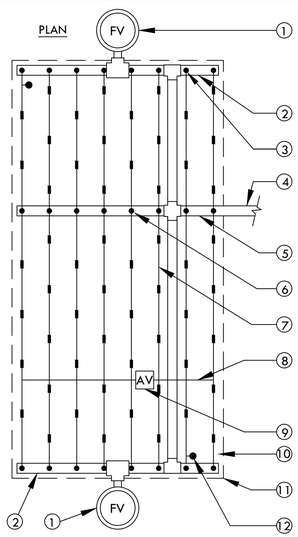


SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE.
LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. TORO TRI-LOC TEE X 1/2" FPT ADAPTER (TL-T-F50)
6. TORO DL2000 TUBING/ AIR-RELIEF LATERAL.
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

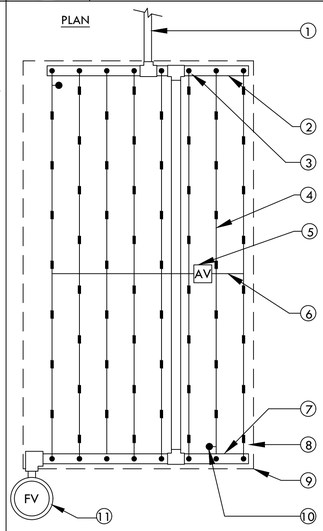
4 AIR VACUUM RELIEF VALVE IN DRIPLINE
SCALE: NONE



1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
5. PVC SUPPLY MANIFOLD. EXTEND TO END OF ZONE/EXHAUST HEADER.
6. MANIFOLD-TO-TEE CONNECTION.
7. DRIPLINE LATERAL.
8. AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM.
9. AIR/VACUUM RELIEF PLUMBED TO BLANK 5/8" POLY TUBING AT EACH HIGH POINT.
10. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
11. AREA PERIMETER.
12. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

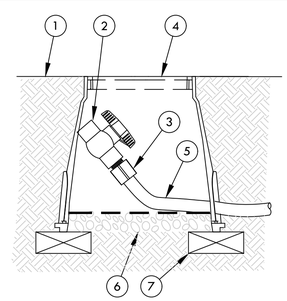
5 TORO DL 2000 CENTER FEED LAYOUT
SCALE: NONE



1. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. DRIPLINE LATERAL.
5. AIR/VACUUM RELIEF VALVE PLUMBED TO BLANK 5/8" TUBING AT EACH HIGH POINT.
6. AIR/VACUUM RELIEF LATERAL, BLANK 5/8" POLY TUBING CENTERED ON MOUND OR BERM.
7. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
8. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
9. AREA PERIMETER.
10. DRIP OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONES.
11. AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

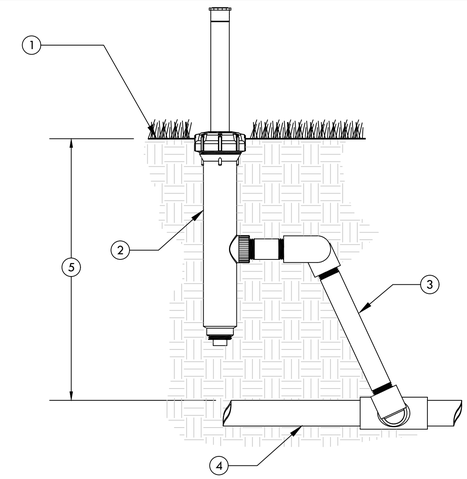
6 TORO DL 2000 END FEED LAYOUT
SCALE: NONE



NOTE:
ALLOW A 12" MINIMUM OF PVC HOSE IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1. FINISH GRADE
2. 1/2" SCH 40 THREADED BALL VALVE.
3. 1/2" SCH 40 MALE ADAPTER.
4. 6" ROUND PLASTIC VALVE BOX.
5. 1" IPS PVC HOSE FROM EXHAUST HEADER OR BLANK DRIP TUBING.
6. PEA GRAVEL SUMP (6" DEEP).
7. BRICK (1 OF 2)

7 DRIPLINE-FLUSH POINT
SCALE: NONE



1. FINISH GRADE.
2. 570 POP-UP DRIP OPERATION INDICATOR ASSEMBLY (TORO MODEL 570-DRIP-IND) INSTALLED AT FURTHEST POINT DOWNSTREAM OF ZONE VALVE.
3. PVC OR SWING PIPE SWING JOINT ASSEMBLY.
4. PVC DRIP ZONE FOOTER.
5. DEPTH OF PVC LINE PER SPECIFICATIONS.

NOTE: TEFLON TAPE ALL THREADED JOINTS

8 570 POP-UP DRIP OPERATION INDICATOR
SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER
TYMON W. SCHMALZ
No. C87192
Exp. 9/30/23
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STATE OF CALIFORNIA

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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100% DESIGN PLANS
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION

ISSUE

CITY OF UKIAH
DOWNTOWN STREETSCAPE AND ROAD DIET PROJECT - PHASE II

IRRIGATION DETAILS

PROJ NO: 11225278
DRWN: CHKD:

IP.503
SHEET X OF 99

2023-02-21 2:17 PM DMUNGER
S:\2022\22-019 UKIAH STREETSCAPE PHASE 2\CAD\2-22-23\IP-105-IP-107 IRRIGATION L,N,D.DWG

STATE ST - UG PROJECT

NORTON TO HENRY & MILL TO GOBBI

CONSTRUCTION RESPONSIBILITIES

A. CONTRACTOR TO FURNISH AND/OR INSTALL:

1. All trenching, backfill and compaction per City Specifications, AT&T requirement and Comcast Specifications. Construction work shall be done according to applicable rules and regulations.
2. Clean sand shall be used to backfill to a minimum of 3 in. above conduit(s) when a single layer of conduit is placed. Slurry cement per Caltrans Specification 19.3.02E shall be used when more than one conduit layer is present or conduits are placed in spacers.
3. All conduit, see Conduit Table A. Including all stubs for future.
4. Remove and replace existing asphalt concrete and sidewalk as required to install conduits and related equipment.
5. Prove and install pull line (Mule Tape - 2500 lbs., ¾" polyester) in all conduit (electric, phone and cable).
6. Exact grade and location for all equipment:
   a. Primary Vault (installation only) 504 vault with 6" riser and cover Specification # 317 2530
   b. Padmount transformer box pad (installation only) Specification 922 5402 & 317 2425 (4)
   c. Primary Pedestal enclosure box pad (installation only) Specification # 922 5405 & 317 2431
   d. Grounding per Electrical Construction Standard 314 1007 at each primary vault, primary junction box and grounding per Electrical Construction Standard 314 1008 at each transformer pad, primary pedestal enclosure, primary riser and each location otherwise noted on plans.
   e. Secondary electric boxes (installation only) Specification #
   f. Bumper posts per City of Ukiah Specification 326 1503.
7. Excavation, backfill and compaction for primary vaults, including installation of 12" to 18" of drain rock below vault. (Hydro hammer is not to be used around substructures) City of Ukiah to inspect each primary junction box upon project backfill completion. Box to be set level and flush with adjacent paving.
8. CATV SERVICE VAULTS - shall be N30, N36 & B48 (w/ 10" extension) per Comcast Specifications. Service box shall be Oldcastle Precast and marked CABLE TV. The cover shall be a reinforced concrete lid. Conduit entry and service box placement shall meet Comcast Specifications. Exact grade and location for all CATV equipment shall be met.
9. AT&T SERVICE BOXES - shall be Jensen Precast K243630AT with H-20 traffic rated non-skid covers or approved equal. Exact grade and location for all AT&T equipment shall be met.
10. Signage along State Street indicating that all businesses are open at each end of the project and all intersections. Signage must be approved by the City of Ukiah Electric Utility Department.

B. CITY OF UKIAH TO SUPPLY THE FOLLOWING MATERIALS AND SERVICES:

1. Conductor, terminations, equipment and labor necessary to convert the existing overhead system to an underground system.
2. Answer questions regarding the drawing, specifications and locations of all electrical substructures.
3. Inspection of all electrical substructures prior to backfill.
4. Primary vault(s) (material only).
5. Padmount transformer box pad(s) (material only).
6. Primary pedestal enclosure box pad(s) (material only).
7. Secondary services boxes (material only).

CONSTRUCTION NOTES:

a. Electrical substructures including conduit and grounding shall be inspected by the UEUD for proper installation prior to backfill of any excavation. You may call the UEUD at (707) 467-5775 to schedule inspection. The Contractor shall notify the UEUD 48 hours in advance of any inspection to be performed outside the normal workday (Monday through Thursday)

b. Contractor to be responsible for condition of all substructures (for example, trench settlement, damaged substructures, etc.) until one year after the date of completion of project.

c. Contractor shall do no excavating until all utility agencies have been given the opportunity to mark their facilities in the field.

d. Contractor shall pothole all underground utilities locations to determine exact depth prior to trenching.

e. All landscape shall be returned to its original condition, or better; including repairs of all water lines that were removed due to construction.

f. All road closures must be approved by the City of Ukiah 72 hours in advance.

g. Existing utilities are shown in approximate locations based on available records. Service laterals are not indicated. However it is the Contractor's responsibility to determine actual vertical and horizontal alignments of any and all utilities in the vicinity of the work area prior to any work being performed and shall adjust the depth of the new utilities to clear as directed by the Engineer. The City of Ukiah and the Engineer assume no responsibility for underground obstructions that may be encountered.

h. Any damages to City or other utilities caused by project operations shall be the contractor's responsibility. Contractor must repair all disturbed or damaged conduit regardless if the conduit appears abandoned.

i. Caution shall be exercised when digging within the dripline of any tree. Roots larger than 2 inches shall not be cut without permission from the Engineer. In the event that a tree root larger than 2 inches needs to be removed, the root pruning shall be performed by a City approved licensed arborist only. Contact the City Public Works Department for a list of approved arborists.

j. Contractor shall protect and preserve City survey monuments. If not possible contractor shall coordinate 10 days in advance with City of Ukiah for referencing of existing monuments prior to work in the area. If monument(s) are disturbed contractor shall reconstruct per City Standards.

k. Contractor shall notify all customers within the construction zone of proposed work schedule at the start of project.

l. Contractor shall notify all customers 48 hours in advance of any construction or disruption of traffic flow impacting the property and any driveway closures.

m. Contractor shall remove and replace sidewalk and concrete planter strips to the nearest transverse score mark on both sides as required by the Engineer for conduit installations.

n. All trenches shall be backfilled and compacted per City Specifications.

o. Trench depth and location may have to be adjusted in the field to avoid existing facilities.

p. All conduit shall be proved with the appropriate size mandrel to match conduit size and must be acceptable to the UEUD. Conduit shall be free of dirt, rocks or other obstructions which could prevent, hinder or harm the installation of electric cable.

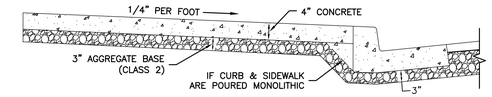
q. Mule Tape shall be installed in all conduits (electric, phone & cable). The open end of all conduits must be protected in a manner that prohibits dirt or debris from entering.

r. Maximum deflection of a 20' section of conduit shall be 5" unless pre-made bends are used.

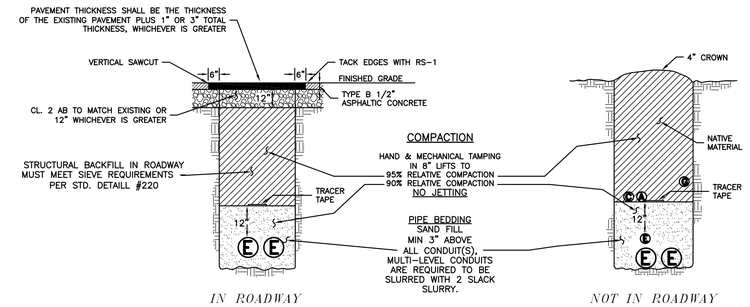
s. Standard interlocking conduit spacers that provide a separation of 2" (min) between conduit shall be used, where specified. Spacers shall be spaced 5' apart (max.) or where conduit transitions are made. Provisions must be made ahead of time to keep conduit from floating during slurry pour.

t. The ends of all stub conduits shall be securely capped. All trenching of electrical conduit shall have tracer tape installed above electrical conduit.

u. The City of Ukiah Electric Utility Department will assist the contractor with the installation of all conduit into any energized equipment (vaults, pads or boxes). Customer service outage time should be held to a minimum and shall not exceed one working day. All outages shall be coordinated with the City of Ukiah Electric Department.



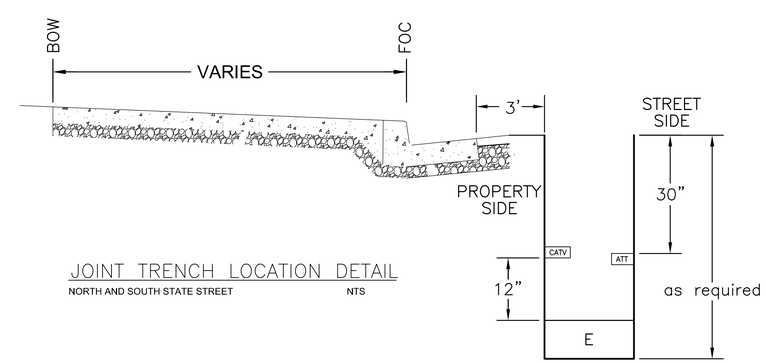
CURB & SIDEWALK SECTION



TRENCH DETAILS

TRENCH SPECIFICATION

1) CONFORM TO THESE SPECIFICATIONS AND REQUIREMENTS OF THE CITY ENGINEER.
2) COMPACTION: CONFORM TO SECTION 19-5, "COMPACTION" OF CALTRANS STANDARD SPECIFICATIONS, THESE PLANS, AND REQUIREMENTS OF THE CITY ENGINEER. CONTRACTOR TO PROVIDE INDEPENDENT MATERIALS AND COMPACTION TESTING.
3) AGGREGATE SUBBASE: CLASS 3. CONFORM TO SECTION 25, "AGGREGATE SUBBASES", OF CALTRANS STANDARD SPECIFICATIONS. SUBJECT TO CITY ENGINEER'S INSPECTION AND APPROVAL, REUSE EXITING SURFACING AND AGGREGATE BASE. CRUSH A.C. PAVEMENT FOR REUSE AS REQUIRED. IF EXISTING MATERIAL IS INSUFFICIENT IN QUALITY OR QUANTITY USE CLASS 2 AGGREGATE SUBBASE.
4) AGGREGATE BASE: CLASS 2, CONFORM TO SECTION 26, "AGGREGATE BASES", OF CALTRANS STANDARD SPECIFICATIONS.
5) ASPHALT CONCRETE: TYPE B. CONFORM TO SECTION 39, "ASPHALT CONCRETE", OF CALTRANS STANDARD SPECIFICATIONS.
6) FOG SEAL COAT: CONFORM TO SECTION 37, "BITUMINOUS SEALS", OF CALTRANS STANDARD SPECIFICATIONS.
7) CONCRETE: CLASS B. CONFORM TO SECTION 90, "PORTLAND CEMENT CONCRETE", OF CALTRANS STANDARD SPECIFICATIONS.
8) TRAFFIC STRIPES: CONFORM TO SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF CALTRANS STANDARD SPECIFICATIONS.
9) ANY SIDEWALK REMOVAL AND REPLACEMENT SHALL BE DONE TO SCORE LINES.
10) TRENCH WIDTH TO BE 24" IN THE STREET AND 12" FOR RESIDENTIAL SERVICE UNLESS OTHERWISE SPECIFIED. DEPTH TO VARY DEPENDING ON CONDUIT SIZE AND CLEARANCE.
11) TWELVE INCHES OF SEPARATION MUST BE KEPT BETWEEN ELECTRIC AND ALL OTHER UTILITIES.



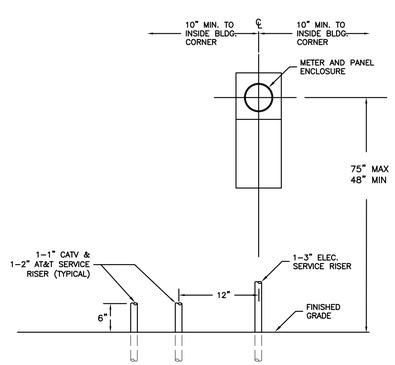
JOINT TRENCH LOCATION DETAIL

NORTH AND SOUTH STATE STREET NTS

CONDUIT TABLE A

		Size	Electric	Cable TV	Phone
Conduit in Trench[1]	Minimum Radius 90° Elbows	1"	18"	18"	-
		2"	24"	24"	60"
		3"	36"	24"	-
		4"	36"	-	60"
		6"	48"	-	-
	Conduit Type	All	PVC 40[2]	PVC 40	PVC 40
	Fittings Type	All	TC-3 Long Line Couplings		
	Standards	All	NEMA TC-2 651 UL 514B	UL	
	Color	All	Gray	White	Gray or White
	Marking	All		"CATV" Every 5'	
Streetlight Boring Conduit[3]	Conduit Type	1"	HDPE Smoothwall Sch 40	N/A	N/A
	Standards	All	NEMA TC 7 ANSI D1248	N/A	N/A
	Color	All	Gray	N/A	N/A

1. Conduits shall be joined using a medium body, clear, electrical conduit PVC solvent cement approved by the UEUD.
2. Risers locations to be schedule 80 elbows and conduit. Conduit shall be stubbed 6" above ground level and mounted per spec 311 2007.
3. Conduit shall be installed by horizontal directional drilling (boring). Conduit shall be equipped with SILICORE® inner lining or approved equivalent system for ease of installing conductor. Conduit shall be continuous - couplings or joints are not permitted except couplings may be used immediately adjacent to streetlight foundations, junction boxes and /or power sources for connection of a schedule 40 elbow to the HDPE conduit. Couplings shall be of the compression type.



BUILDING SERVICE RISER DETAIL

FROM SECONDARY, CATV & AT&T BOXES NTS

0 1/2" 1"
0' 10' 20'

WARNING
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No.	REVISIONS	DATE	DSG. BY	BY	CKD	APPD
1	REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023	2-13-2023	AMS	AMS		

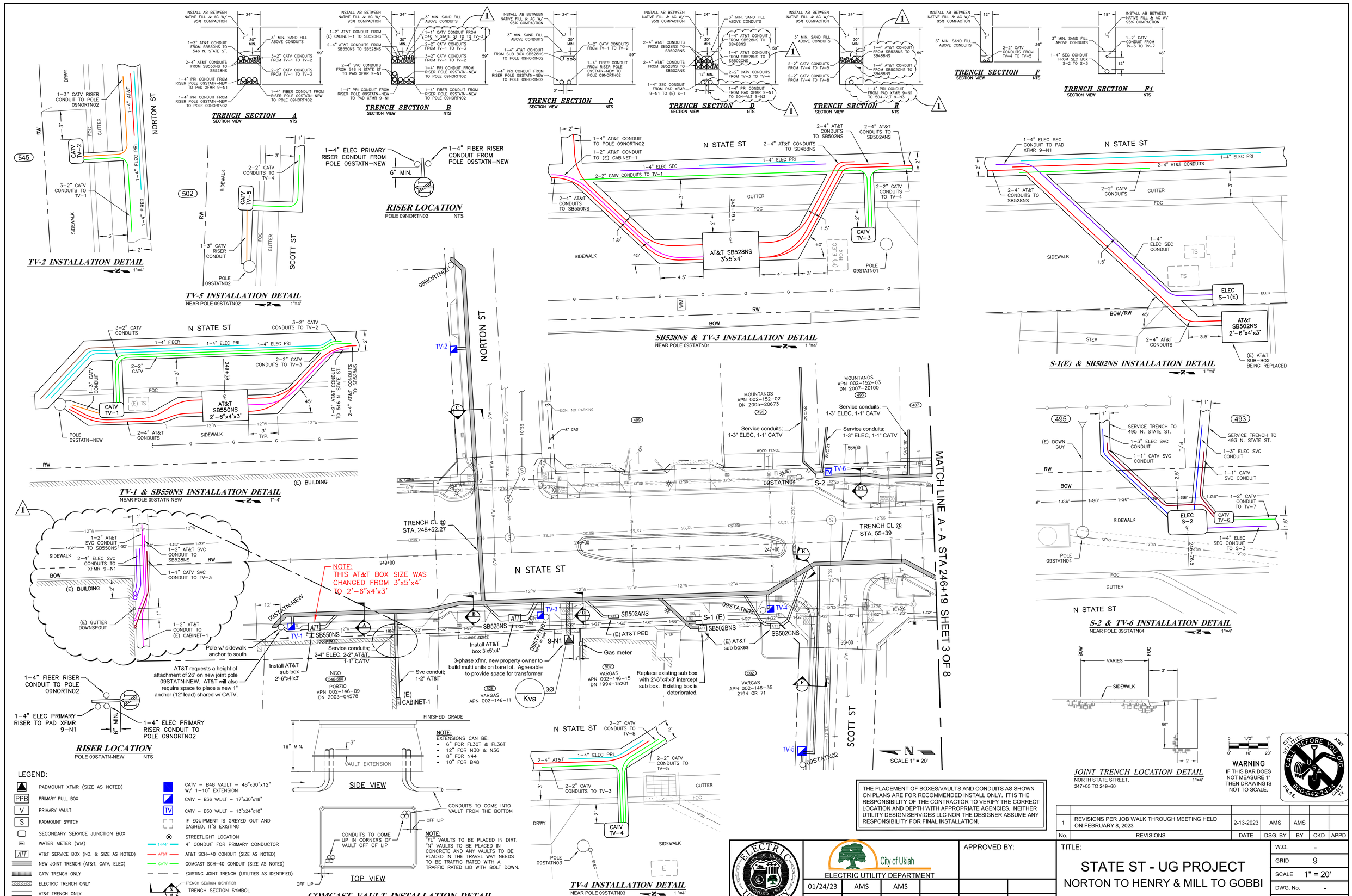
City Of Ukiah
ELECTRIC UTILITY DEPARTMENT

DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

APPROVED BY:

TITLE:
STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI

W.O.	-
GRID	9 & 14
SCALE	1" = 20'
DWG. No.	-
SHEET	1 of 8


TRENCH SECTION A
TRENCH SECTION B
TRENCH SECTION C
TRENCH SECTION D
TRENCH SECTION E
TRENCH SECTION F
TRENCH SECTION F1
SECTION VIEW
TV-2 INSTALLATION DETAIL
TV-5 INSTALLATION DETAIL
NEAR POLE 09STATN02
RISER LOCATION
POLE 09NORTN02
SB528NS & TV-3 INSTALLATION DETAIL
NEAR POLE 09STATN01
S-1(E) & SB502NS INSTALLATION DETAIL
TV-1 & SB550NS INSTALLATION DETAIL
NEAR POLE 09STATN-NEW
S-2 & TV-6 INSTALLATION DETAIL
NEAR POLE 09STATN04
RISER LOCATION
POLE 09STATN-NEW
COMCAST VAULT INSTALLATION DETAIL
TV-4 INSTALLATION DETAIL
NEAR POLE 09STATN03
JOINT TRENCH LOCATION DETAIL
NORTH STATE STREET,
247+05 TO 249+60
N STATE ST
NORTON ST
SCOTT ST
MATCH LINE A - A STA 246+19 SHEET 3 OF 8
SCALE 1" = 20'
NOTE:
THIS AT&T BOX SIZE WAS CHANGED FROM 3'x5'x4' TO 2'-6"x4'x3'
LEGEND:
PADMOUNT XFMR (SIZE AS NOTED)
PRIMARY PULL BOX
PRIMARY VAULT
PADMOUNT SWITCH
SECONDARY SERVICE JUNCTION BOX
WATER METER (WM)
AT&T SERVICE BOX (NO. & SIZE AS NOTED)
NEW JOINT TRENCH (AT&T, CATV, ELEC)
CATV TRENCH ONLY
ELECTRIC TRENCH ONLY
AT&T TRENCH ONLY
CATV – B48 VAULT – 48"x30"x12" W/ 1–10" EXTENSION
CATV – B36 VAULT – 17"x30"x18"
CATV – B30 VAULT – 13"x24"x18"
IF EQUIPMENT IS GREYED OUT AND DASHED, IT'S EXISTING
STREETLIGHT LOCATION
4" CONDUIT FOR PRIMARY CONDUCTOR
AT&T SCH-40 CONDUIT (SIZE AS NOTED)
COMCAST SCH-40 CONDUIT (SIZE AS NOTED)
EXISTING JOINT TRENCH (UTILITIES AS IDENTIFIED)
TRENCH SECTION IDENTIFIER
TRENCH SECTION SYMBOL
SHEET NUMBER
THE PLACEMENT OF BOXES/VAULTS AND CONDUITS AS SHOWN ON PLANS ARE FOR RECOMMENDED INSTALL ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CORRECT LOCATION AND DEPTH WITH APPROPRIATE AGENCIES. NEITHER UTILITY DESIGN SERVICES LLC NOR THE DESIGNER ASSUME ANY RESPONSIBILITY FOR FINAL INSTALLATION.
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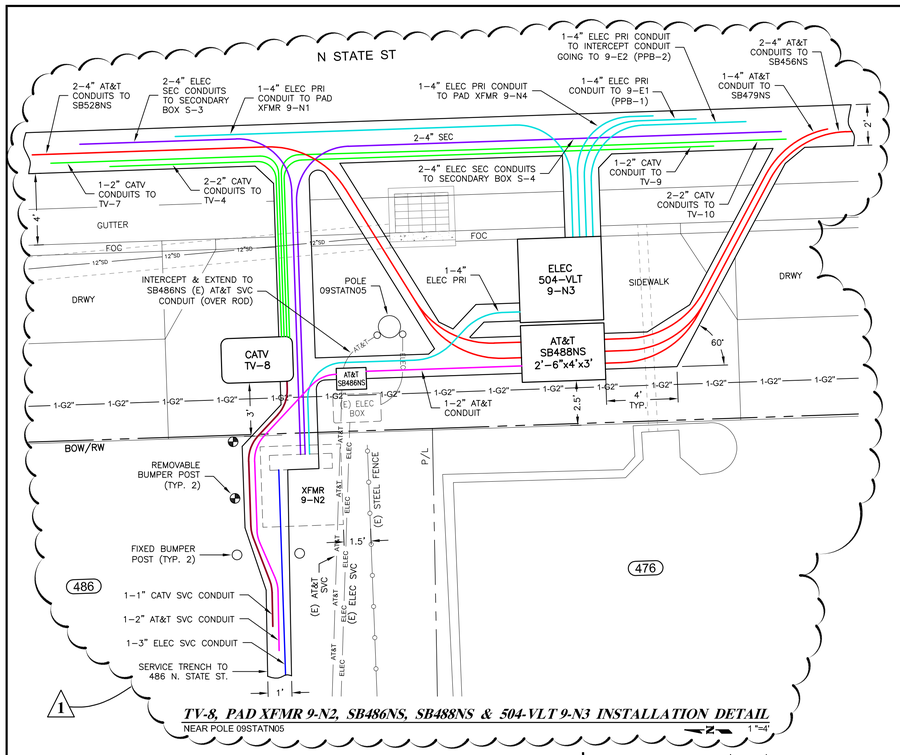
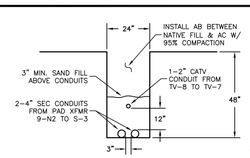
CALL BEFORE YOU DIG
800-642-2444
ELECTRIC UTILITY
City of Ukiah
ELECTRIC UTILITY DEPARTMENT
APPROVED BY:
01/24/23 AMS AMS
DATE DESIGNED DRAWN CHECKED AS BUILT
1 REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023 2-13-2023 AMS AMS
No. REVISIONS DATE DSG. BY BY CKD APPD
TITLE:
STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI
W.O. -
GRID 9
SCALE 1" = 20'
DWG. No. -
SHEET 2 of 8



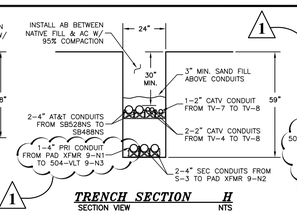
TV-8, PAD XFMR 9-N2, SB486NS, SB488NS & 504-VLT 9-N3 INSTALLATION DETAIL

NEAR POLE 09STATN05 — 1 "=4'



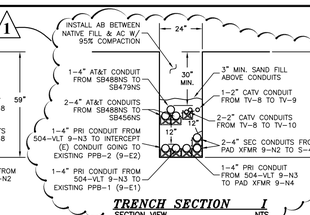
TRENCH SECTION G

SECTION VIEW — NTS



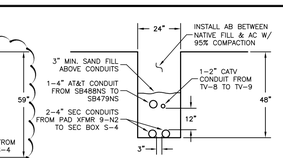
TRENCH SECTION H

SECTION VIEW — NTS



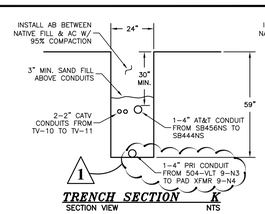
TRENCH SECTION I

SECTION VIEW — NTS



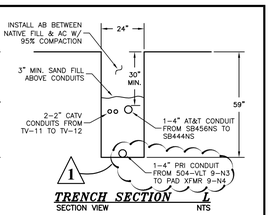
TRENCH SECTION J

SECTION VIEW — NTS



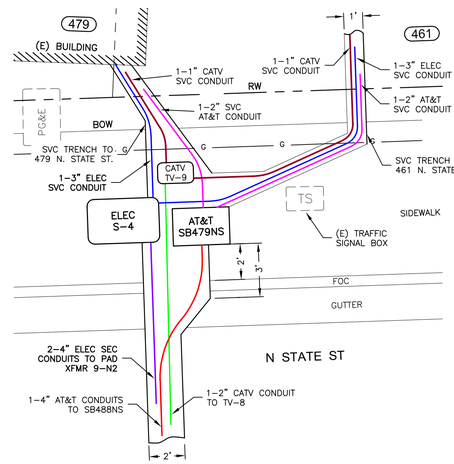
TRENCH SECTION K

SECTION VIEW — NTS



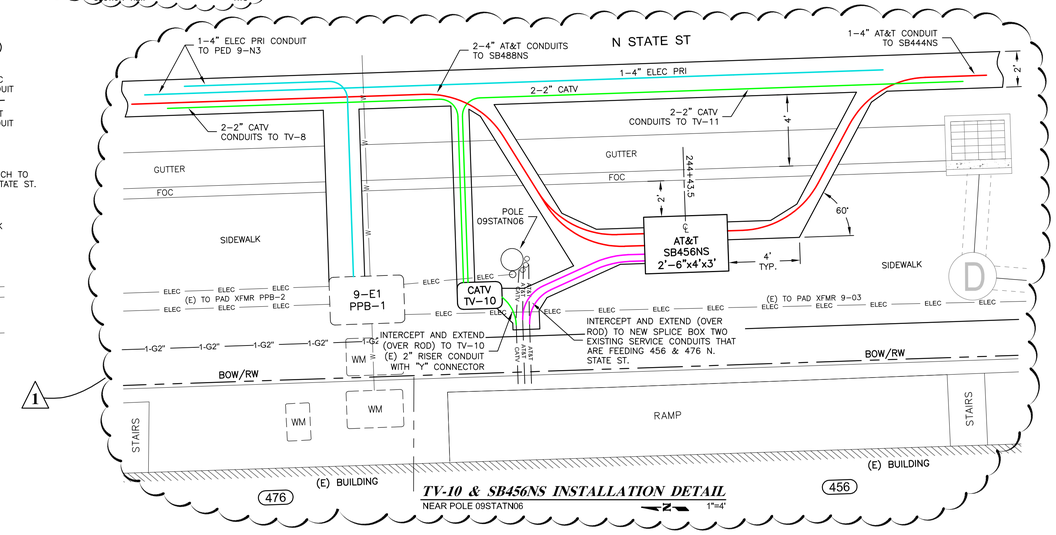
TRENCH SECTION L

SECTION VIEW — NTS



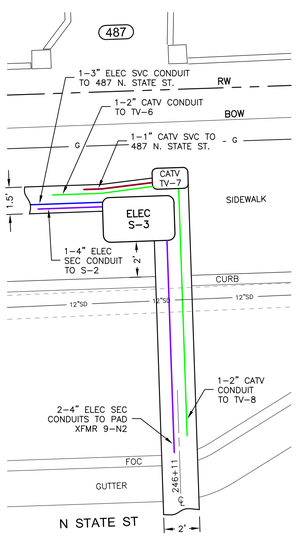
TV-9, S-4 & SB479NS INSTALLATION DETAIL

1 "=4'



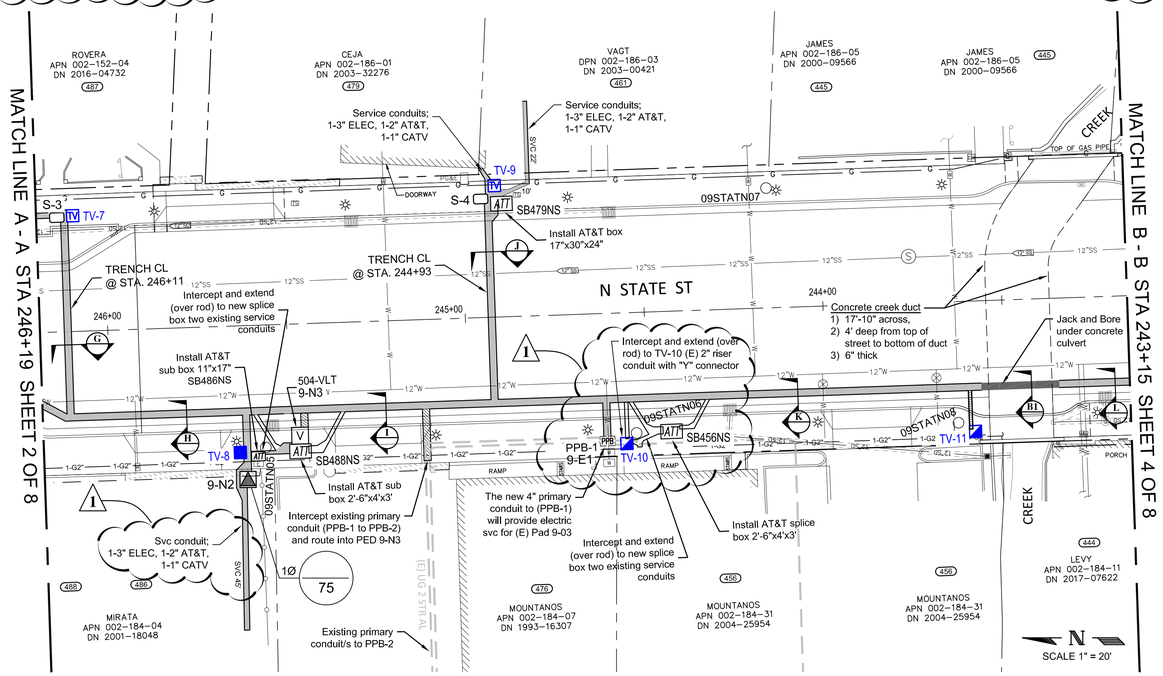
TV-10 & SB456NS INSTALLATION DETAIL

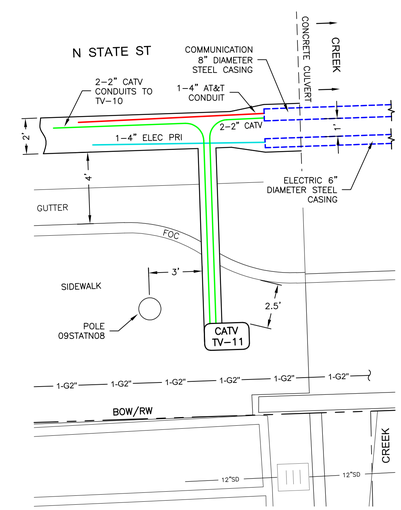
NEAR POLE 09STATN06 — 1 "=4'



S-3 & TV-7 INSTALLATION DETAIL

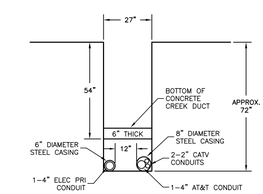
1 "=4'





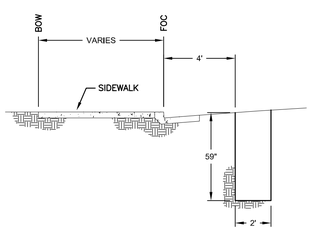
TV-11 INSTALLATION DETAIL

NEAR POLE 09STATN08 — 1 "=4'



TRENCH SECTION B1

SECTION VIEW — NTS



JOINT TRENCH LOCATION DETAIL

NORTH STATE STREET, 240+91.5 TO 246+12.7 — 1"=4'

LEGEND:

- PADMOUNT XFMR (SIZE AS NOTED)
- PPB — PRIMARY PULL BOX
- V — PRIMARY VAULT
- S — PADMOUNT SWITCH
- SECONDARY SERVICE JUNCTION BOX
- WM — WATER METER (WM)
- ATT — AT&T SERVICE BOX (NO. & SIZE AS NOTED)
- NEW JOINT TRENCH (AT&T, CATV, ELEC)
- CATV TRENCH ONLY
- ELECTRIC TRENCH ONLY
- AT&T TRENCH ONLY
- CATV – B48 VAULT – 48"x30"x12" W/ 1-10" EXTENSION
- CATV – B36 VAULT – 17"x30"x18"
- TV — CATV – B30 VAULT – 13"x24"x18"
- IF EQUIPMENT IS GREYED OUT AND DASHED, IT'S EXISTING
- STREETLIGHT LOCATION
- 1-P4" — 4" CONDUIT FOR PRIMARY CONDUCTOR
- AT&T — AT&T SCH-40 CONDUIT (SIZE AS NOTED)
- CATV — COMCAST SCH-40 CONDUIT (SIZE AS NOTED)
- EXISTING JOINT TRENCH (UTILITIES AS IDENTIFIED)
- X — TRENCH SECTION IDENTIFIER; # — SHEET NUMBER: TRENCH SECTION SYMBOL

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0 1/2" 1" / 0' 10' 20'

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No.	REVISIONS	DATE	DSG. BY	BY	CKD	APPD
1	REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023	2-13-2023	AMS	AMS		

City of Ukiah — ELECTRIC UTILITY DEPARTMENT

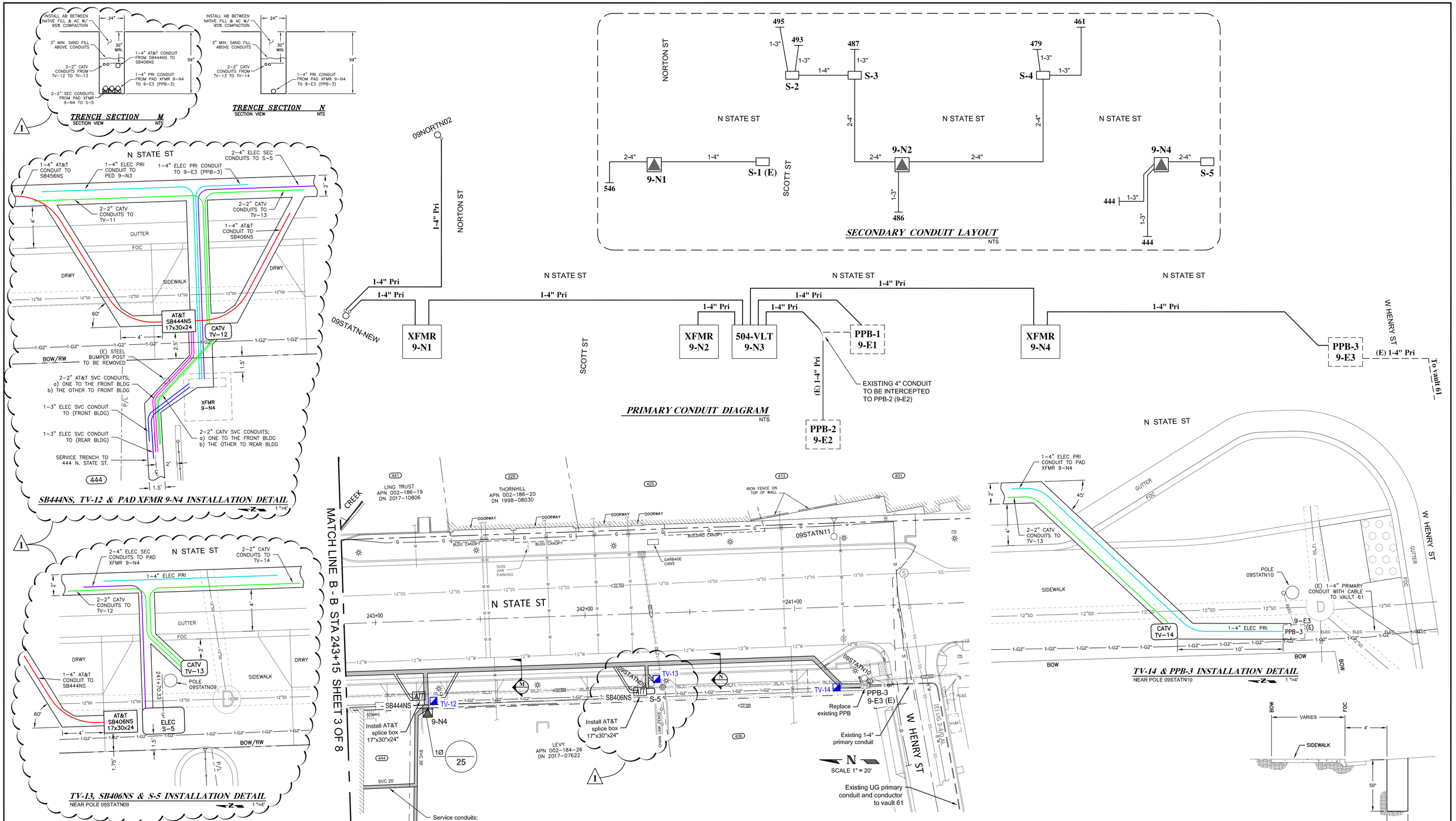
DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

APPROVED BY:

TITLE:

STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI

W.O.	-
GRID	9
SCALE	1" = 20'
DWG. No.	-
SHEET	3 of 8



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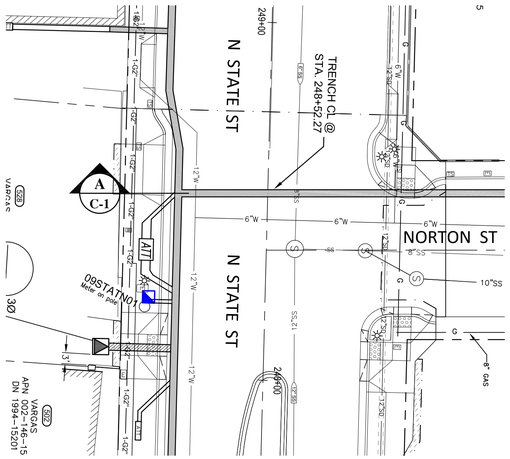
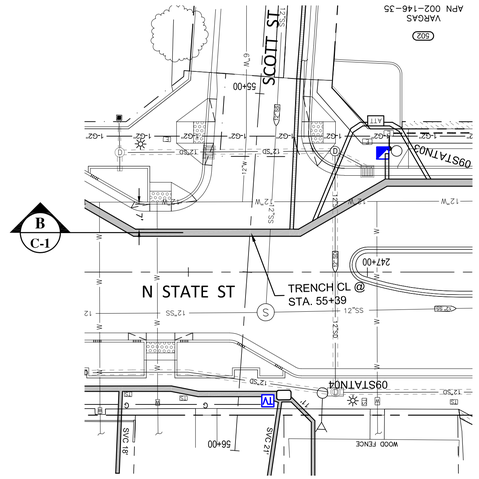


A C-1 **STATE STREET UTILITY PLAN - STA 248+52.27**
Scale: 1"=20'



B C-1 **STATE STREET UTILITY PLAN - STA 55+22.74**
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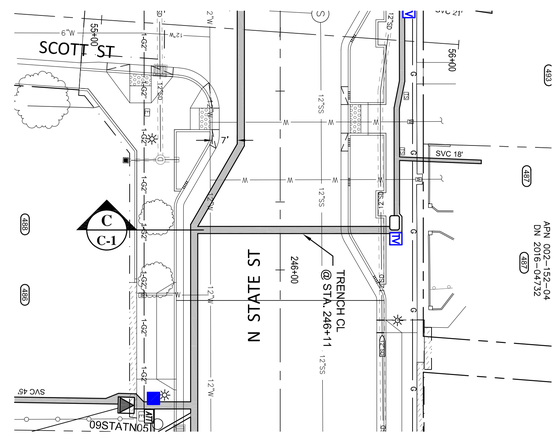
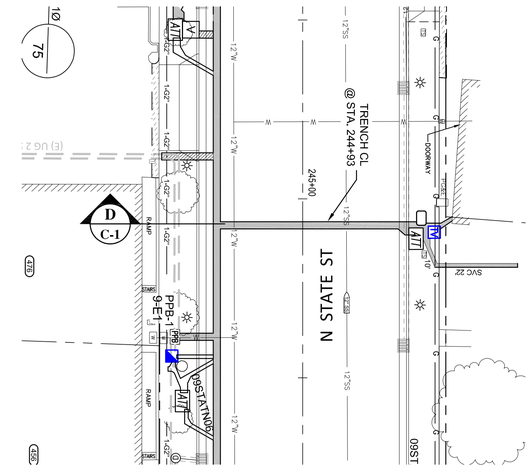


C C-1 **STATE STREET UTILITY PLAN - STA 246+11**
Scale: 1"=20'



D C-1 **STATE STREET UTILITY PLAN - STA 244+93**
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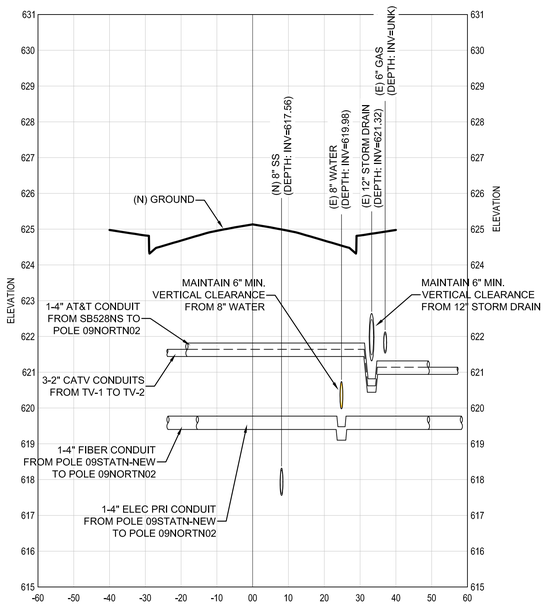
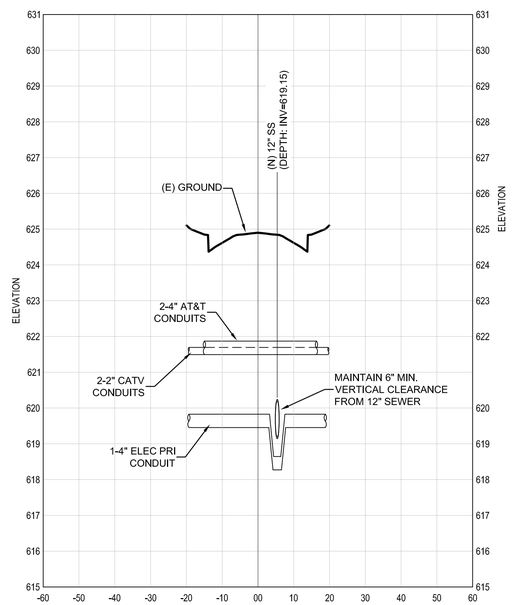
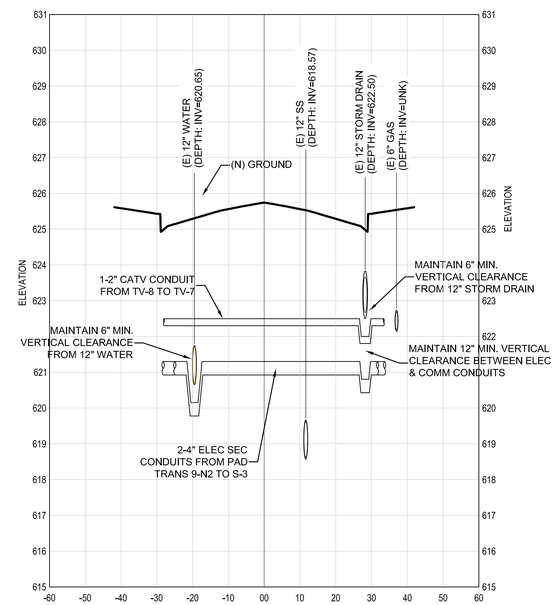


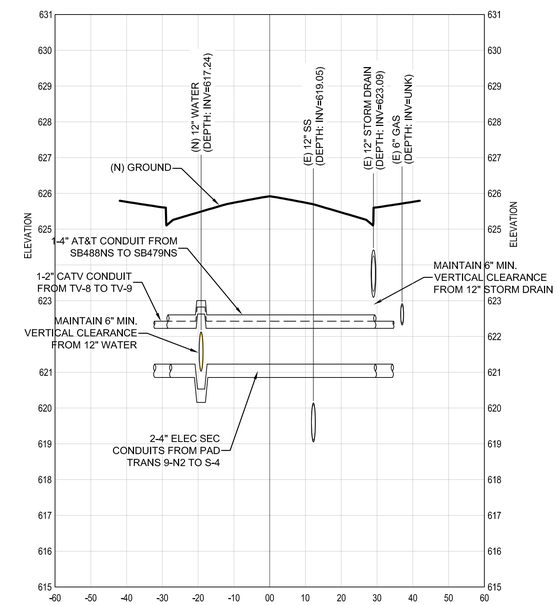
A C-1 **STATE STREET UTILITY SECTION**
Horizontal Scale: 1"=20, Vertical Scale: 1"=2'



B C-1 **STATE STREET UTILITY SECTION**
Horizontal Scale: 1"=20, Vertical Scale: 1"=2'



C C-1 **STATE STREET UTILITY SECTION**
Horizontal Scale: 1"=20, Vertical Scale: 1"=2'



D C-1 **STATE STREET UTILITY SECTION**
Horizontal Scale: 1"=20, Vertical Scale: 1"=2'

***TYPICAL FOR ALL PROFILE VIEWS

0' 10' 20' 40' HORIZONTAL SCALE

0' 2' 4' VERTICAL SCALE

0 1/2" 1" 0' 10' 20'

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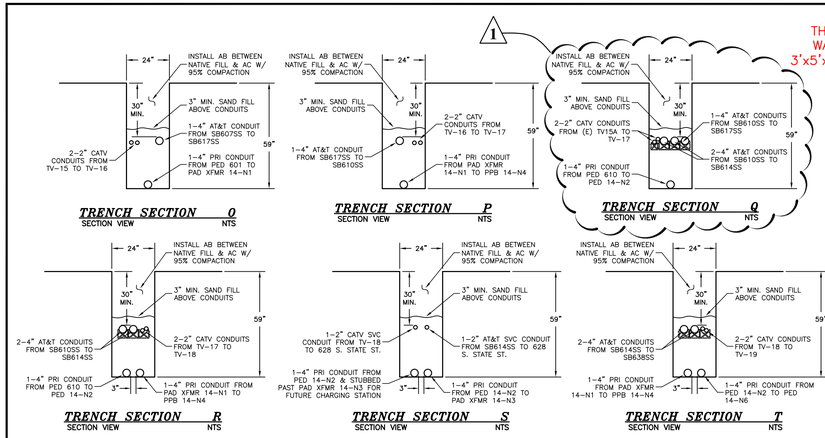
City of Ukiah
ELECTRIC UTILITY DEPARTMENT

DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

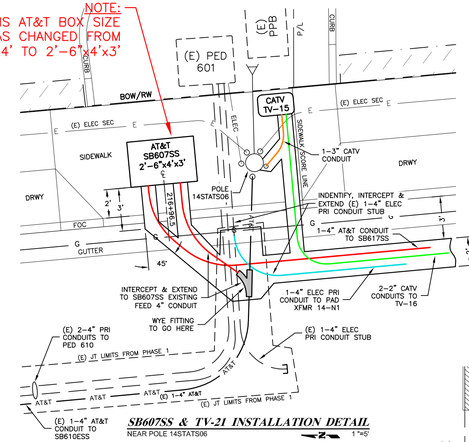
APPROVED BY:

TITLE:
STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI

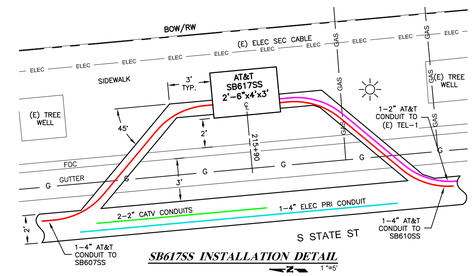
W.O.	-
GRID	9
SCALE	1" = 20'
DWG. No.	-
SHEET	5 of 8



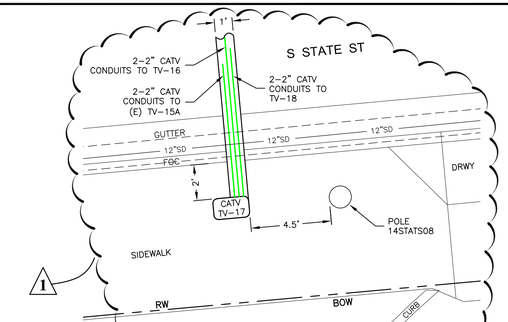
NOTE: THIS AT&T BOX SIZE WAS CHANGED FROM 3'x5'x4' TO 2'-6"x4'x3'



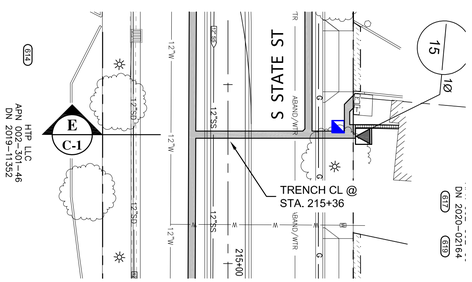
SB607SS & TV-21 INSTALLATION DETAIL
NEAR POLE 14STATS06 1"=5'



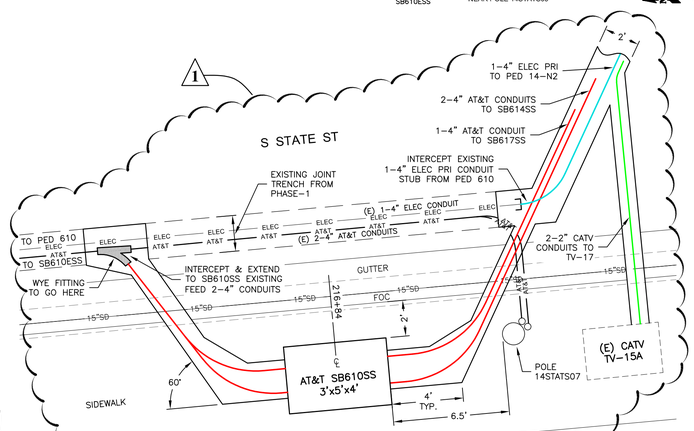
SB617SS INSTALLATION DETAIL
1"=5'



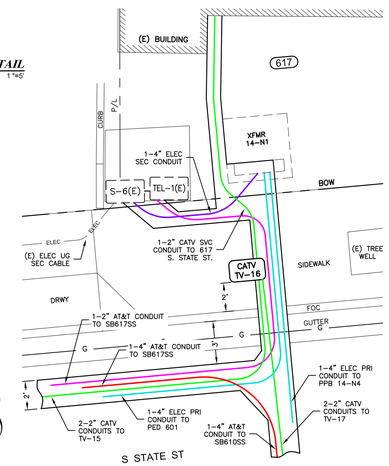
TV-17 INSTALLATION DETAIL
NEAR POLE 14STATS08 1"=4'



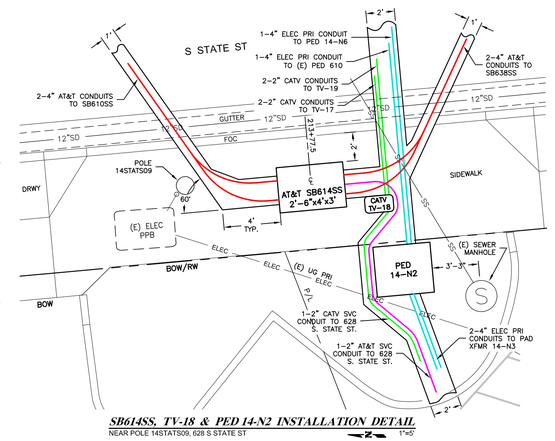
STATE STREET UTILITY PLAN - STA 215+36
Scale: 1"=20'



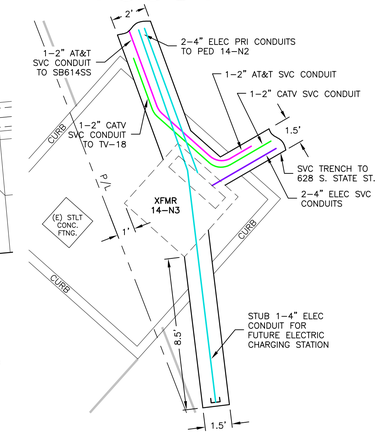
SB610SS INSTALLATION DETAIL
NEAR POLE 14STATS07 1"=4'



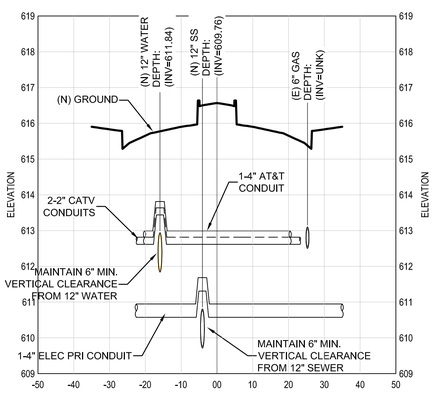
TV-16 & PAD XFMR 14-N1 INSTALLATION DETAIL
1"=5'



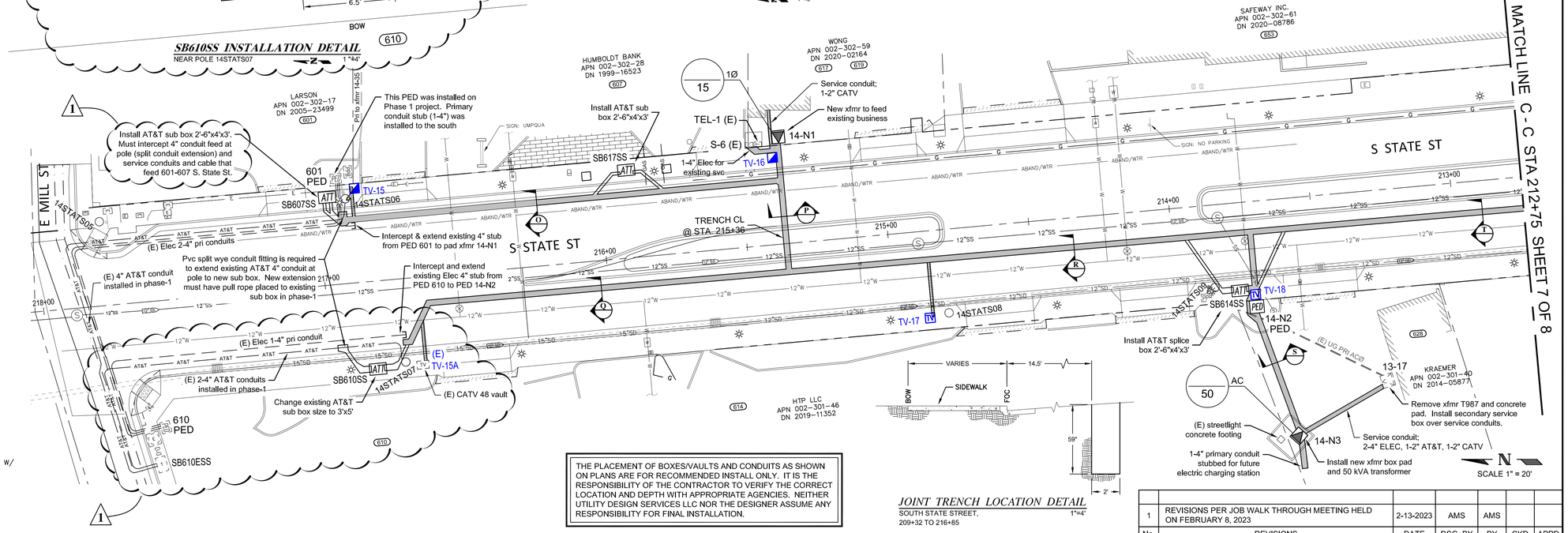
SB614SS, TV-18 & PED 14-N2 INSTALLATION DETAIL
NEAR POLE 14STATS09, 628 S STATE ST 1"=5'



PAD XFMR 14-N3 INSTALLATION DETAIL
628 S STATE ST 1"=4'



STATE STREET UTILITY SECTION
Horizontal Scale: 1"=20, Vertical Scale: 1"=2'



JOINT TRENCH LOCATION DETAIL
SOUTH STATE STREET, 209+32 TO 216+85 1"=4'

THE PLACEMENT OF BOXES/VAULTS AND CONDUITS AS SHOWN ON PLANS ARE FOR RECOMMENDED INSTALL ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CORRECT LOCATION AND DEPTH WITH APPROPRIATE AGENCIES. NEITHER UTILITY DESIGN SERVICES LLC NOR THE DESIGNER ASSUME ANY RESPONSIBILITY FOR FINAL INSTALLATION.

LEGEND:

- PADMOUNT XFMR (SIZE AS NOTED)
- PRIMARY PULL BOX
- PRIMARY VAULT
- PADMOUNT SWITCH
- SECONDARY SERVICE JUNCTION BOX
- WATER METER (WM)
- AT&T SERVICE BOX (NO. & SIZE AS NOTED)
- NEW JOINT TRENCH (AT&T, CATV, ELEC)
- CATV TRENCH ONLY
- ELECTRIC TRENCH ONLY
- AT&T TRENCH ONLY
- CATV – B48 VAULT – 48"x30"x12" W/ 1-10" EXTENSION
- CATV – B36 VAULT – 17"x30"x18"
- CATV – B30 VAULT – 13"x24"x18"
- IF EQUIPMENT IS GREYED OUT AND DASHED, IT'S EXISTING
- STREETLIGHT LOCATION
- 1-P4" 4" CONDUIT FOR PRIMARY CONDUCTOR
- AT&T SCH-40 CONDUIT (SIZE AS NOTED)
- CATV COMCAST SCH-40 CONDUIT (SIZE AS NOTED)
- EXISTING JOINT TRENCH (UTILITIES AS IDENTIFIED)
- TRENCH SECTION IDENTIFIER / SHEET NUMBER — TRENCH SECTION SYMBOL

***TYPICAL FOR THE PROFILE VIEW

HORIZONTAL SCALE 0' 10' 20' 40'

VERTICAL SCALE 0' 2' 4'

0 1/2" 1" / 0' 10' 20'

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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ELECTRIC UTILITY — CITY OF UKIAH — FOUNDED 1876

City of Ukiah
ELECTRIC UTILITY DEPARTMENT

DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

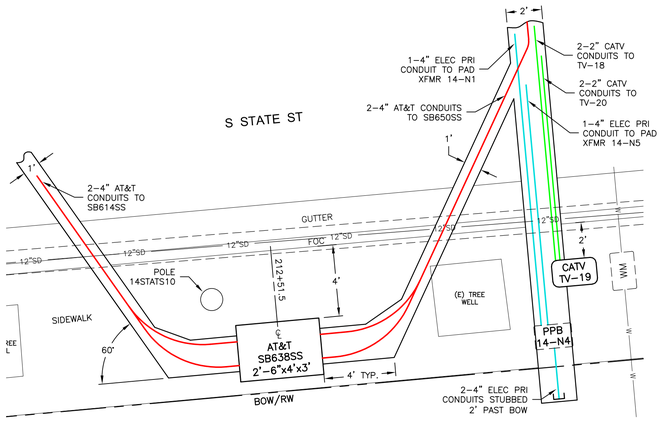
APPROVED BY:

No.	REVISIONS	DATE	DSG. BY	BY	CKD	APPD
1	REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023	2-13-2023	AMS	AMS		

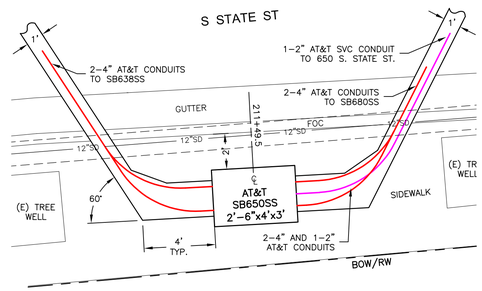
TITLE:

STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI

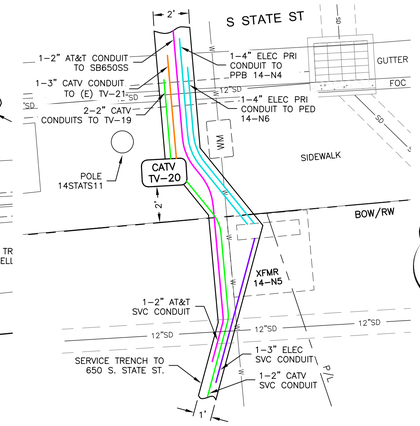
W.O.	-
GRID	14
SCALE	1" = 20'
DWG. No.	-
SHEET	6 of 8



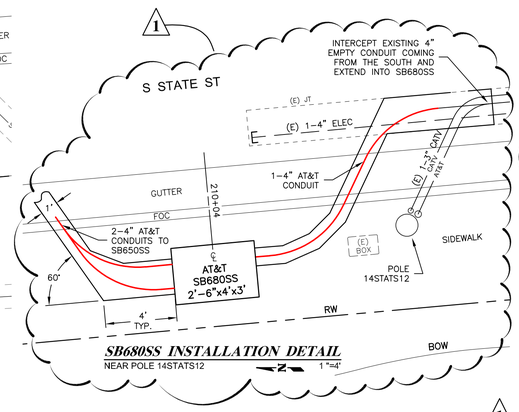
SB638SS, TV-19 & PPB 14-N4 INSTALLATION DETAIL
NEAR POLE 14STATS10 1"=4'



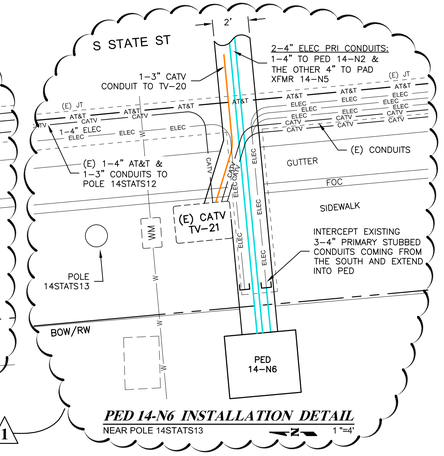
SB650SS INSTALLATION DETAIL
NORTH OF POLE 14STATS11 1"=4'



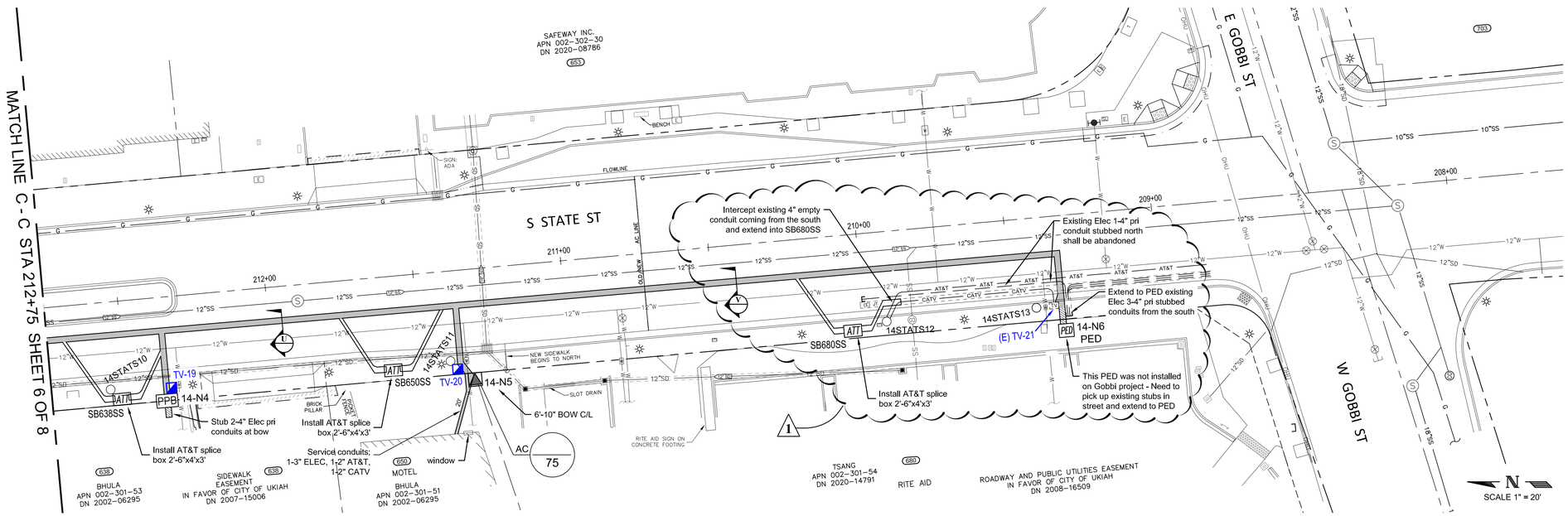
TV-20 & PAD XFMR 14-N5 INSTALLATION DETAIL
NEAR POLE 14STATS11 1"=4'

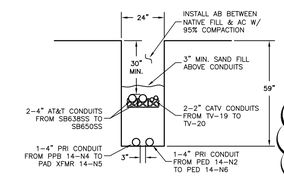


SB680SS INSTALLATION DETAIL
NEAR POLE 14STATS12 1"=4'

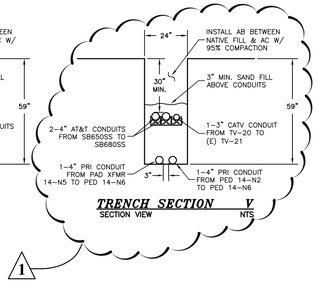


PED 14-N6 INSTALLATION DETAIL
NEAR POLE 14STATS13 1"=4'

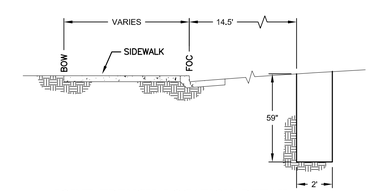




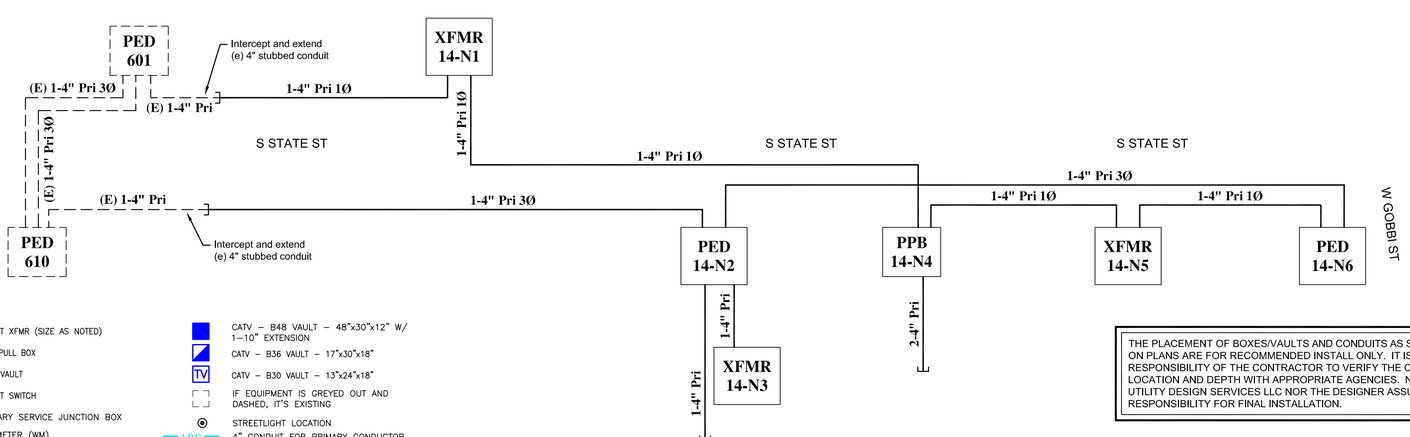
TRENCH SECTION U
SECTION VIEW NTS



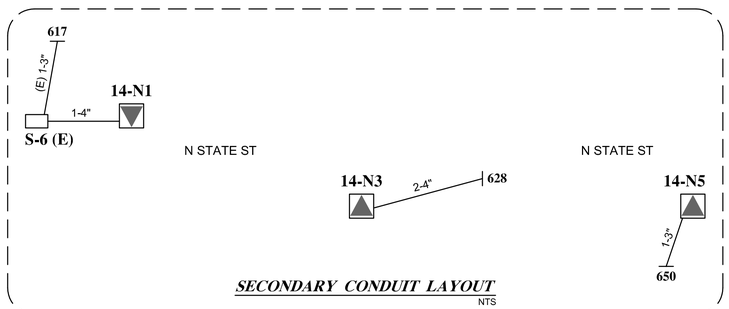
TRENCH SECTION V
SECTION VIEW NTS



JOINT TRENCH LOCATION DETAIL
SOUTH STATE STREET, 209+32 TO 216+85 1"=4'



PRIMARY CONDUIT DIAGRAM
NTS



SECONDARY CONDUIT LAYOUT
NTS

0 1/2" 1"
0' 10' 20'

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

LEGEND:

- PADMOUNT XFMR (SIZE AS NOTED)
- PPB — PRIMARY PULL BOX
- V — PRIMARY VAULT
- S — PADMOUNT SWITCH
- SECONDARY SERVICE JUNCTION BOX
- WM — WATER METER (WM)
- ATT — AT&T SERVICE BOX (NO. & SIZE AS NOTED)
- NEW JOINT TRENCH (AT&T, CATV, ELEC)
- CATV TRENCH ONLY
- ELECTRIC TRENCH ONLY
- AT&T TRENCH ONLY
- CATV – B48 VAULT – 48"x30"x12" W/ 1-10" EXTENSION
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- STREETLIGHT LOCATION
- 1-P4" — 4" CONDUIT FOR PRIMARY CONDUCTOR
- AT&T — AT&T SCH-40 CONDUIT (SIZE AS NOTED)
- CATV — COMCAST SCH-40 CONDUIT (SIZE AS NOTED)
- EXISTING JOINT TRENCH (UTILITIES AS IDENTIFIED)
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No.	REVISIONS	DATE	DSG. BY	BY	CKD	APPD
1	REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023	2-13-2023	AMS	AMS		

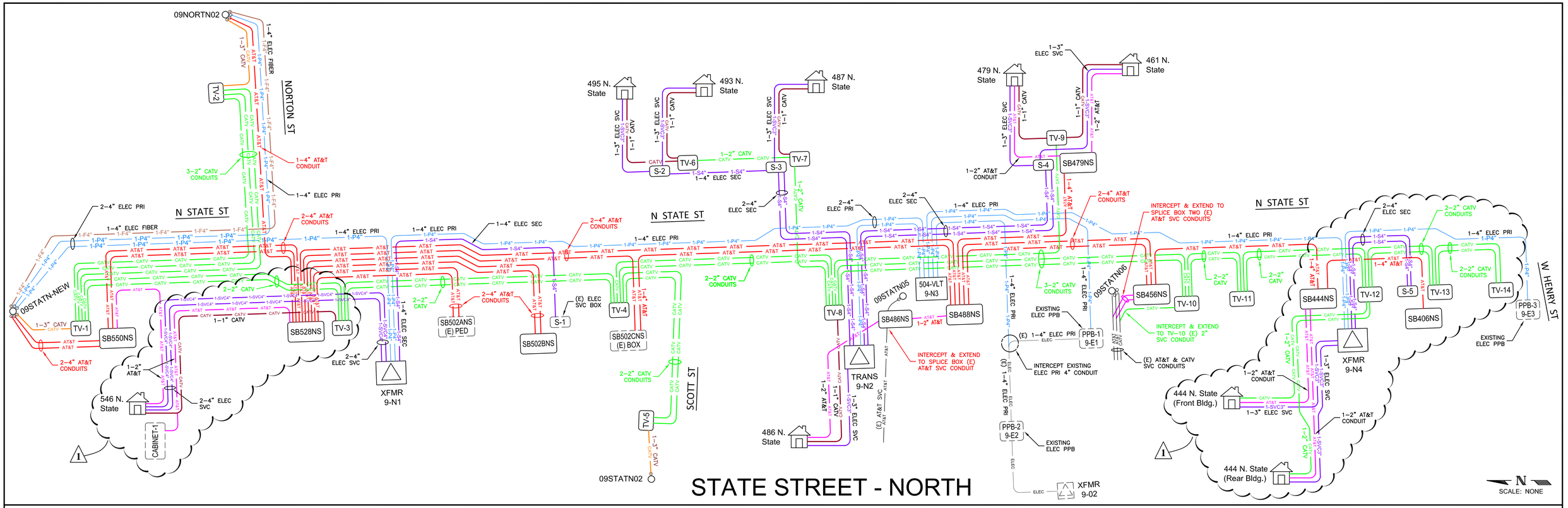
City of Ukiah
ELECTRIC UTILITY DEPARTMENT

DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

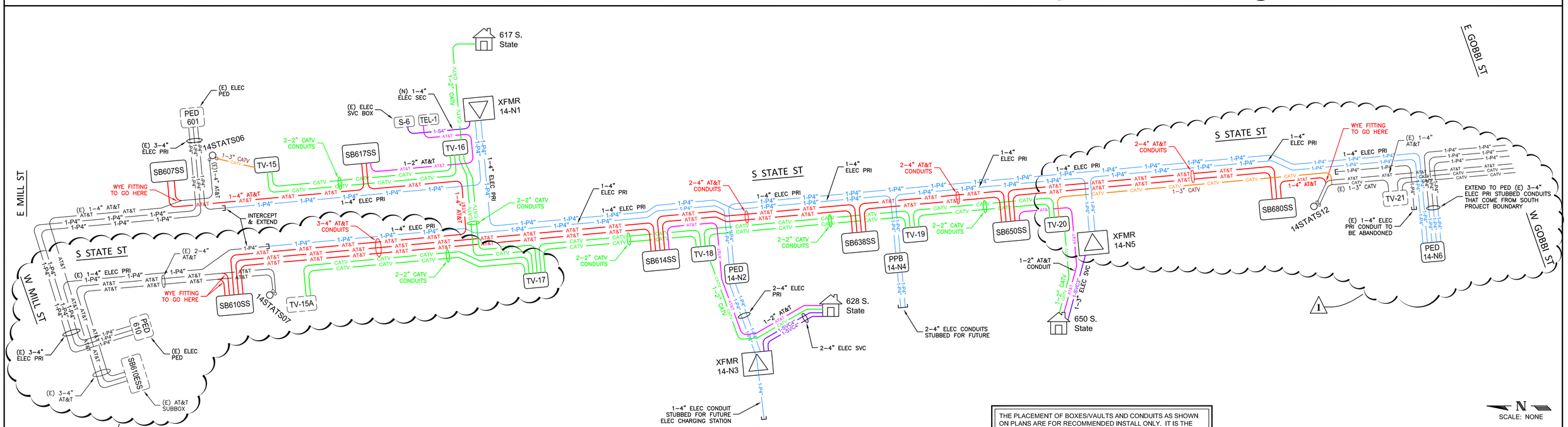
APPROVED BY:

TITLE:
STATE ST - UG PROJECT
NORTON TO HENRY & MILL TO GOBBI

W.O.	-
GRID	14
SCALE	1" = 20'
DWG. No.	-
SHEET	7 of 8



STATE STREET - NORTH



STATE STREET - SOUTH

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1	REVISIONS PER JOB WALK THROUGH MEETING HELD ON FEBRUARY 8, 2023	2-13-2023	AMS	AMS		

0 1/2" 1" 0' 10' 20'

WARNING
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City of Ukiah
ELECTRIC UTILITY DEPARTMENT

DATE	DESIGNED	DRAWN	CHECKED	AS BUILT
01/24/23	AMS	AMS		

APPROVED BY:

TITLE:

STATE ST - UG PROJECT
CONDUIT LAYOUT

W.O.	-
GRID	9 & 14
SCALE	AS SHOWN
DWG. No.	-
SHEET	8 of 8