City of Shasta Lake Electric Fiber Conduit Installation
04/28/2022

1) See conduit schedule sheet for number, size, and approximate distances.
2) See existing infrastructure sheet for locations of new junction boxes
3) All conduits will start and stop with a 3' Radius sweep
4) Any above ground conduit will be Sch 80 PVC
5) Any below ground conduit will be Sch 40 PVC
6) All conduits will be glued together
7) Conduit will be a minimum of 24" below grade to top of pipe inspection by COSLE will be needed prior to backfill---(530) 275-7418---
8) Conduits will have a 4" sand bedding and 6" of sand covering them with a caution tape over that
9) A covered 10-gauge tracer wire will be run with the conduit
10) Native soil can be used for back fill in non-Easement locations
11) The Easement area from fence to cul-de-sac will need to be back filled with base. COSL will haul and dispose of excavated material not used for back fill
12) At completion of installation the contractor will proof all conduits with a Mandrel
13) Contractor sweeps up poles Sch 80 PVC
14) Exact alignment to be determined by COSLE & Contractor

Contractor to dig, sand, set conduit, tracer wire, sand, caution tape, back fill, compact, proof all conduits and leave 1250 LB pull tape in conduit when complete.

Materials contractor is responsible to supply:

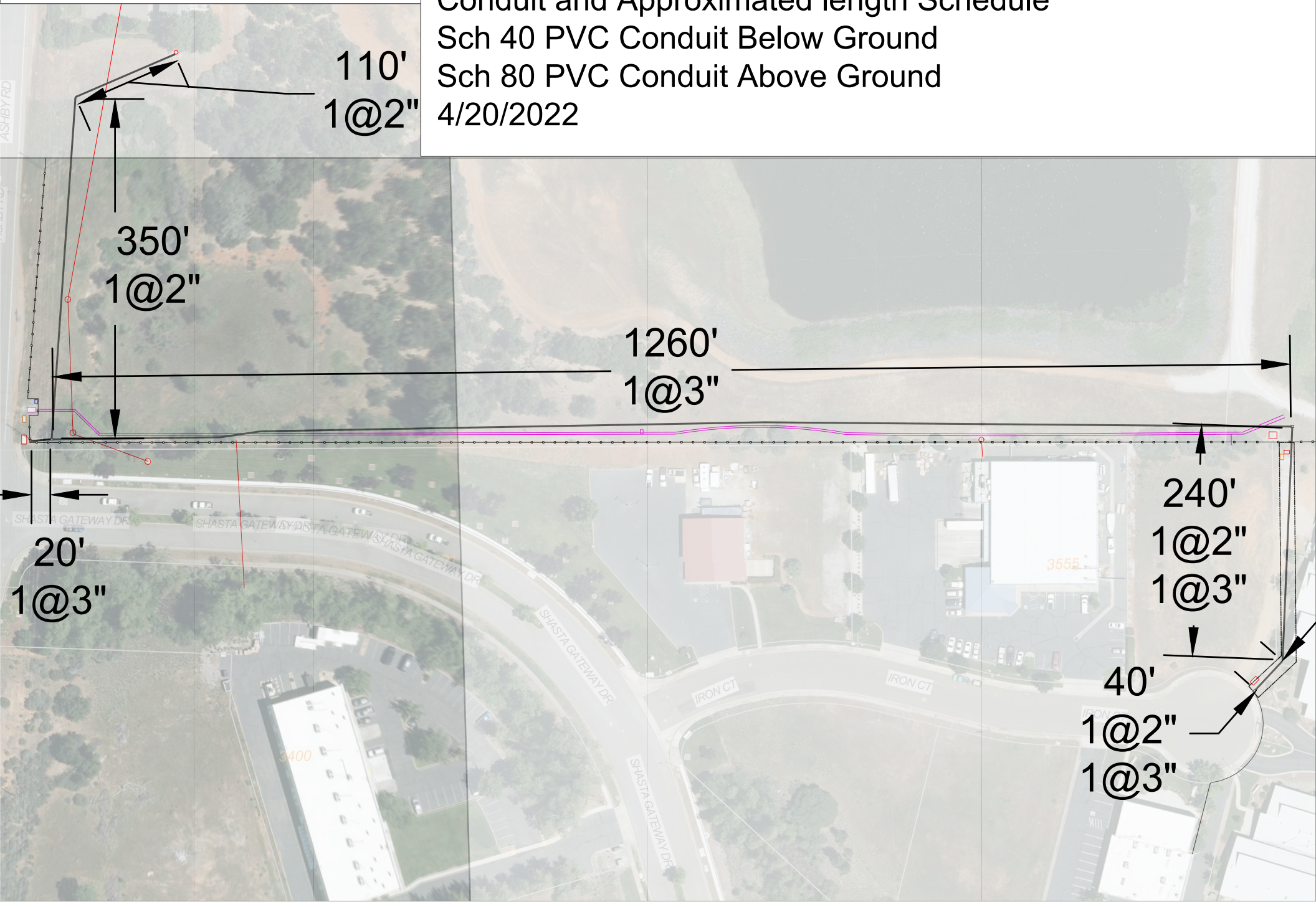
1) All conduits, sweeps and fittings.
2) 10 Gauge covered tracer wire for all conduit runs
3) Buried fiber caution tape
4) 1250LB Pull Tape
5) Sand and base

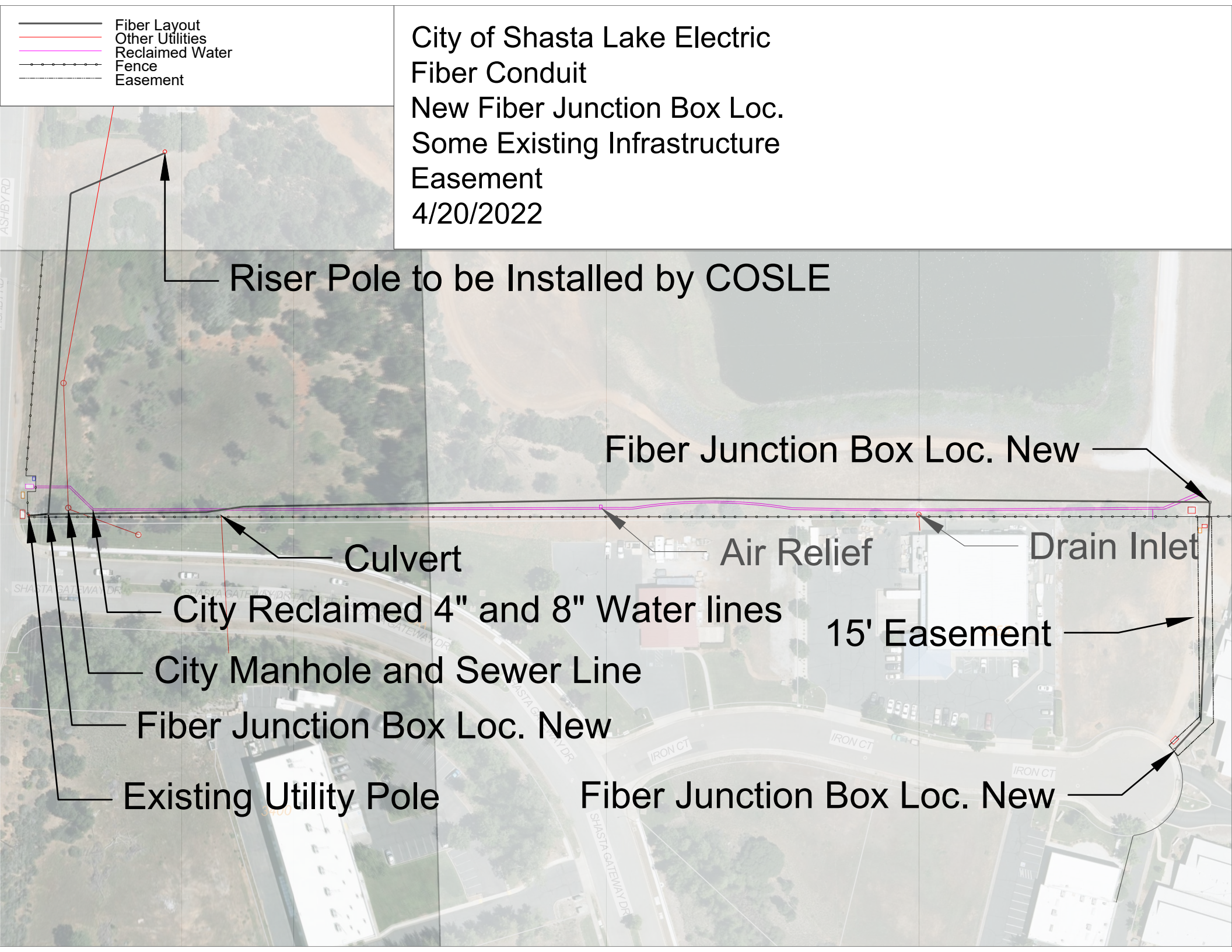
Materials COSL is responsible to supply:

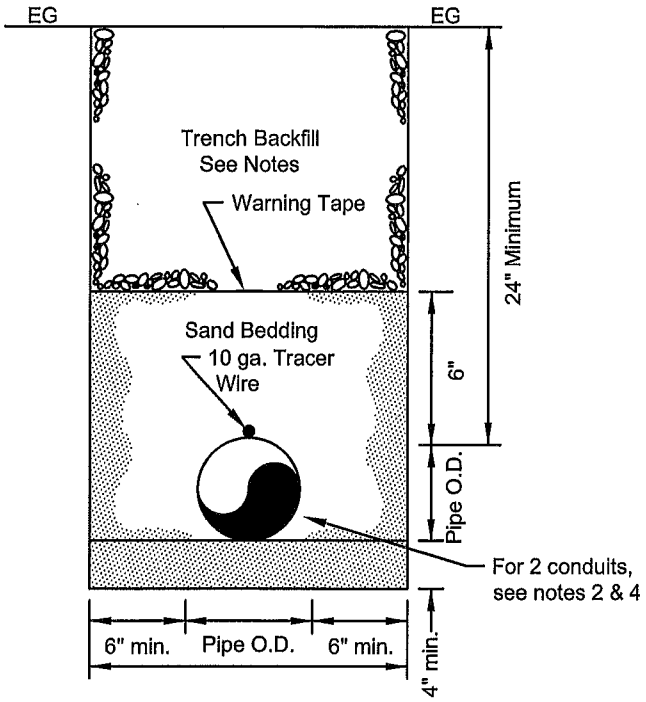
1) Fiber Junction Boxes

Fiber Layout
Other Utilities
Reclaimed Water
Fence
Easement

City of Shasta Lake Electric
Fiber Conduit
Conduit and Approximated length Schedule
Sch 40 PVC Conduit Below Ground
Sch 80 PVC Conduit Above Ground
4/20/2022




Fiber Layout
Other Utilities
Reclaimed Water
Fence
Easement
City of Shasta Lake Electric
Fiber Conduit
New Fiber Junction Box Loc.
Some Existing Infrastructure
Easement
4/20/2022
Riser Pole to be Installed by COSLE
Fiber Junction Box Loc. New
Culvert
Air Relief
Drain Inlet
City Reclaimed 4" and 8" Water lines
15' Easement
City Manhole and Sewer Line
Fiber Junction Box Loc. New
Existing Utility Pole
Fiber Junction Box Loc. New



TRENCH BACKFILL NOTES:

1. Trenches with 1 conduit can be backfilled with native backfill (above sand bedding).

2. Trenches with 2 conduits shall be backfilled with Class 2 Aggregate Base (above sand bedding) and compacted to 90%.

3. Warning Tape and Tracer Wire shall be placed in all trenches.

4. Trenches with 2 conduits, shall maintain 3 inch spacing between conduits.

REVISION	BY	APPROVED	DATE

CITY OF SHASTA LAKE
Engineering Department

TRENCH BACKFILL
FIBER OPTIC CONDUIT

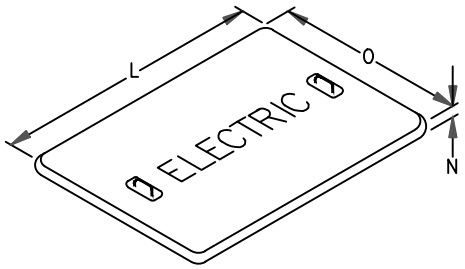
Approved:

City Engineer Date

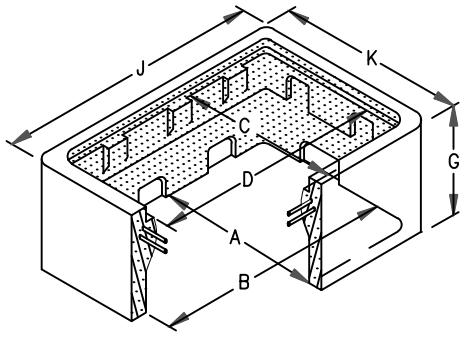
Date: 4/28/22

Scale:

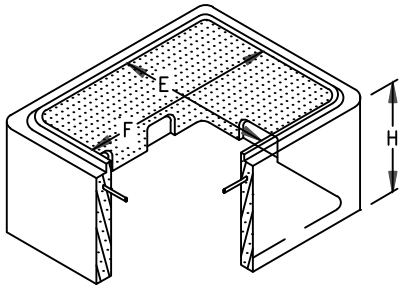
Dwg No.:



LID (See Notes 1 & 2)



PULL BOX



EXTENSION

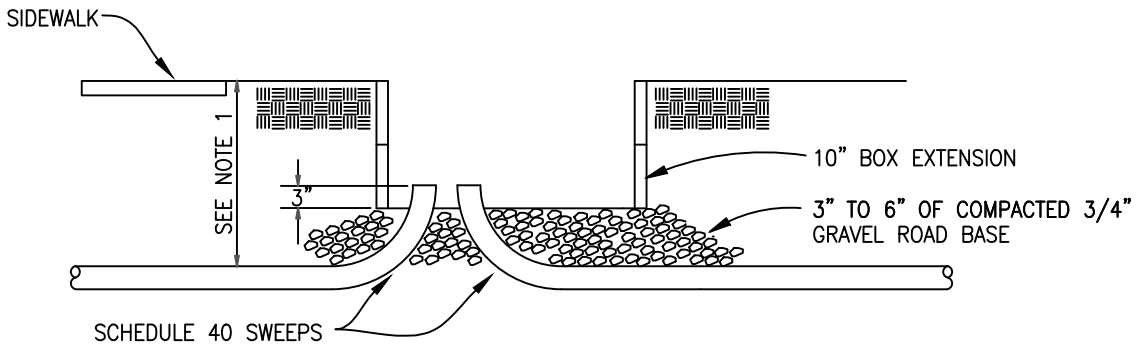
NOTES:

1. ALL LIDS AND COVERS SHALL BE FURNISHED WITH HOLD-DOWN BOLTS.
2. ALL LIDS SHALL BE NON-CONCRETE AND/OR COMPOSITE. STEEL TRAFFIC LIDS WILL BE REQUIRED WHERE CURB IS NOT INSTALLED.
3. BOXES AND LIDS SHALL BE FROM SUPPLIERS WHO'S BOXES AND LIDS MEET THE NOMINAL DIMENSIONS SHOWN BELOW.
4. PRIOR TO ACCEPTANCE OF A BOX AND LID, THE CITY OF SHASTA LAKE MUST HAVE RECEIVED A REPORT FROM AN INDEPENDANT, STATE OF CALIFORNIA, LICENSED CIVIL OR STRUCTURAL ENGINEER. THE REPORT SHALL BE STAMPED BY THE ENGINEER AND SHALL CERTIFY THAT THE BOX AND LID DESIGN MEETS THE REQUIRED SPECIFICATIONS AND STANDARDS OR TEST REPORTS SHOWING TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF NOTE 5.
5. BOXES AND LIDS SHALL MEET OR EXCEED THE DESIGN STRENGTH FOR VERTICAL LOADING OF ASTM C 857 DESIGNATION A-8 (AASHTO DESIGNATION H10-44) BASED ON 8,000 LBS. PER WHEEL, 10"x10" WHEEL LOAD AREA, AND INCREASED 30% FOR AN IMPACT FACTOR.

BOX NO.	DIMENSIONS (IN INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	O
3E	24	36	21	32.5	24	36	14	10	40	28.5	35	--	3	24

DWN. A.O.	**Concrete Electric Pull Box, Lid, and Extension**		SHEET 1 OF 1
CHCK'D P.E.			
DATE 02/25/05	SCALE NTS	CITY OF SHASTA LAKE ELECTRIC DEPARTMENT	DRAWING NUMBER SR008-1

Secondary Box Conduit Placement - Profile View



NOTES

1. APPROPRIATE EXCAVATION DEPTH SHALL BE PROVIDED SUCH THAT STANDARD 24" RADIUS 90° BENDS MAY BE INSTALLED AS SHOWN. CONDUIT BENDS SHALL NOT BE CUT OR OTHERWISE MODIFIED.
2. FOR CONDUIT SIZES SEE PLANS, SPECIFICATIONS, OR OTHER APPLICABLE CONSTRUCTION STANDARDS.
3. ALL CONDUITS SHALL BE EXTENDED A MINIMUM OF 3" AND A MAXIMUM OF 5" ABOVE THE BOTTOM OF THE BOX.
4. CUSTOMER INSTALLED.

DWN./REV. A.O. / JJC	**Conduit Placement - Secondary Box** (Profile View)	SHEET 3 OF 3
CHCK'D T.D.		
DATE 08/14/18 / SCALE NTS	CITY OF SHASTA LAKE ELECTRIC DEPARTMENT	DRAWING NUMBER SR009-3