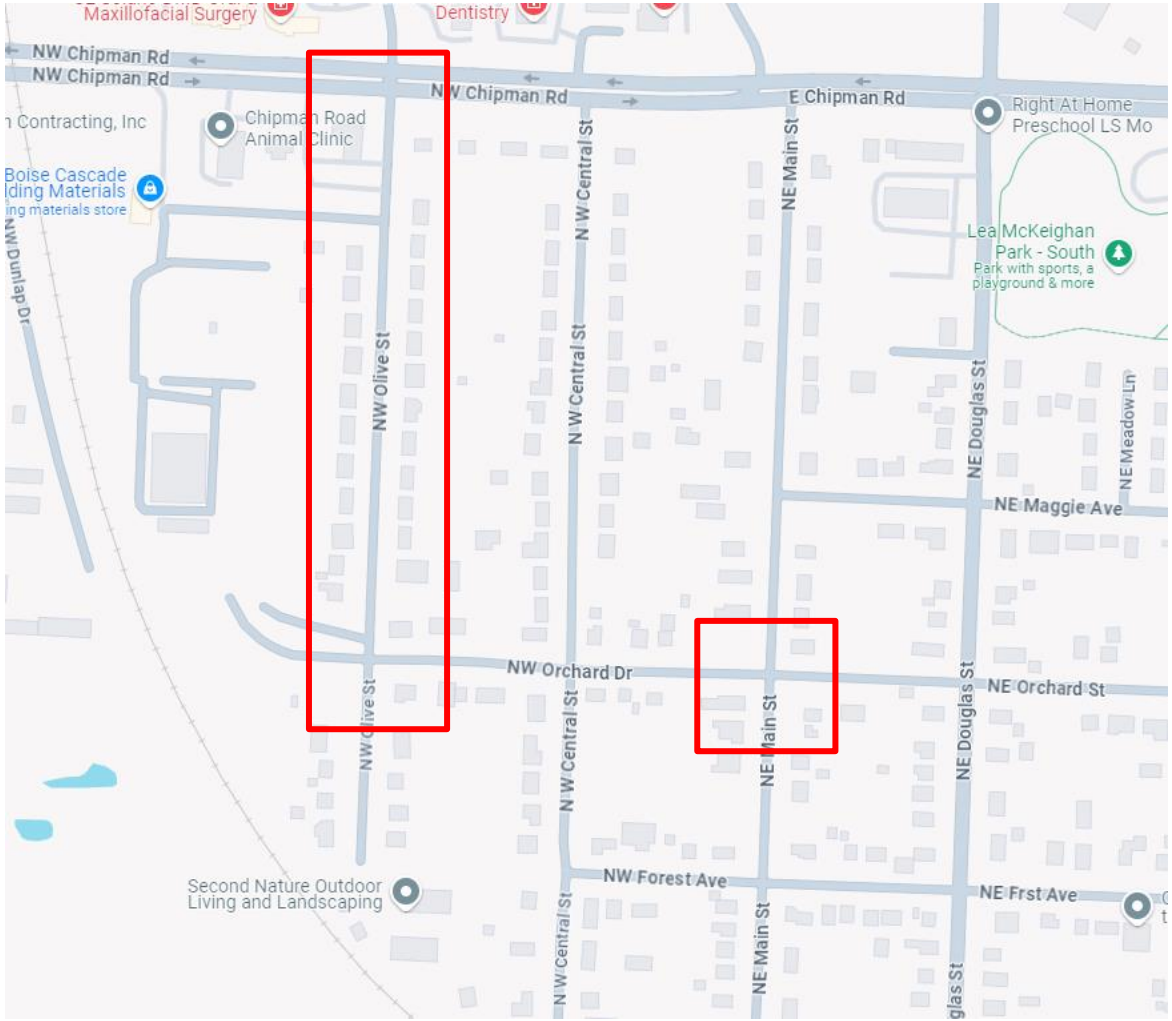
Olive Street/Orchard Road Improvements - Streamline Design

LOCATION


Maxillofacial Surgery
Dentistry
NW Chipman Rd
NW Chipman Rd
NW Chipman Rd
E Chipman Rd
Right At Home Preschool LS Mo
Contracting, Inc
Chipman Road Animal Clinic
Boise Cascade lding Materials
ng materials store
NW Dunlap Dr
NW Olive St
N W Central St
NE Main St
Lea McKeighan Park - South
Park with sports, a playground & more
NE Douglas St
NE Meadow Ln
NE Maggie Ave
NW Orchard Dr
NE Orchard St
NW Olive St
N W Central St
NE Main St
NE Douglas St
Second Nature Outdoor Living and Landscaping
NW Forest Ave
NE Frst Ave
N W Central St
NE Main St

Olive Street/Orchard Road Improvements

City Plans: here

Evergy Plans: here

Relocation of conduit along Olive St to avoid new storm sewer improvements, with one new crossing that will require extra depth. Vaults will need to be adjusted along this project corridor to match the final grade. Coordinate those adjustments with the city's contractor. There are also poles that will be replaced, Google Fiber will need to transfer to those poles once placed.

There is one location where Google FIber will need to adjust vaults and conduit, the vaults at the corner of Main and Orchard will need to be shifted with the conduit adjusted to the new vault locations. The conduit extending south from that intersection will need to be lowered in place, due to the fiber hierarchy. This lowering in place needs to be coordinated with the city's contractor to ensure the extract location, depth, and restoration is covered sufficiently.

The contractor is responsible to ensure that municipality requirements are met, such as flowable fill and restoration.

Relocation of Conduit:

Bore

(A-B): 310 Ft. AF Suburban Conditions.

Place Conduit

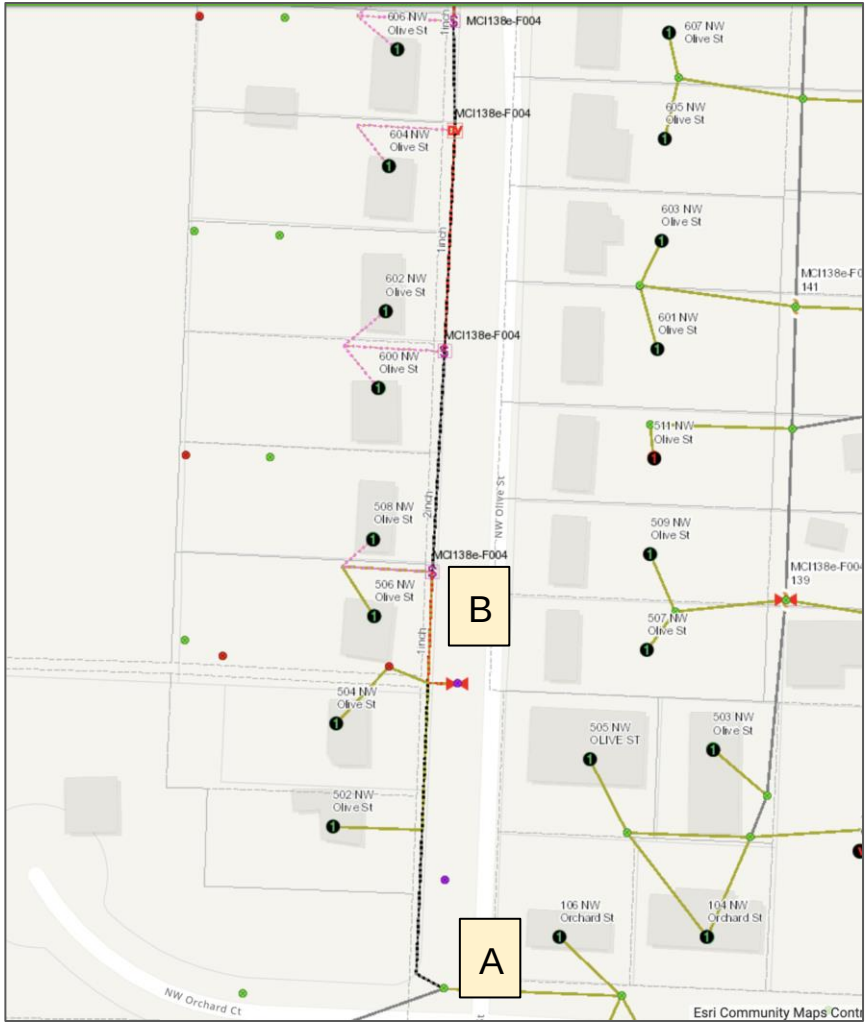
(A-B): Install 2” conduit from A to B at a minimum depth of 4’ below grade at an offset of 10.5’ behind the road.

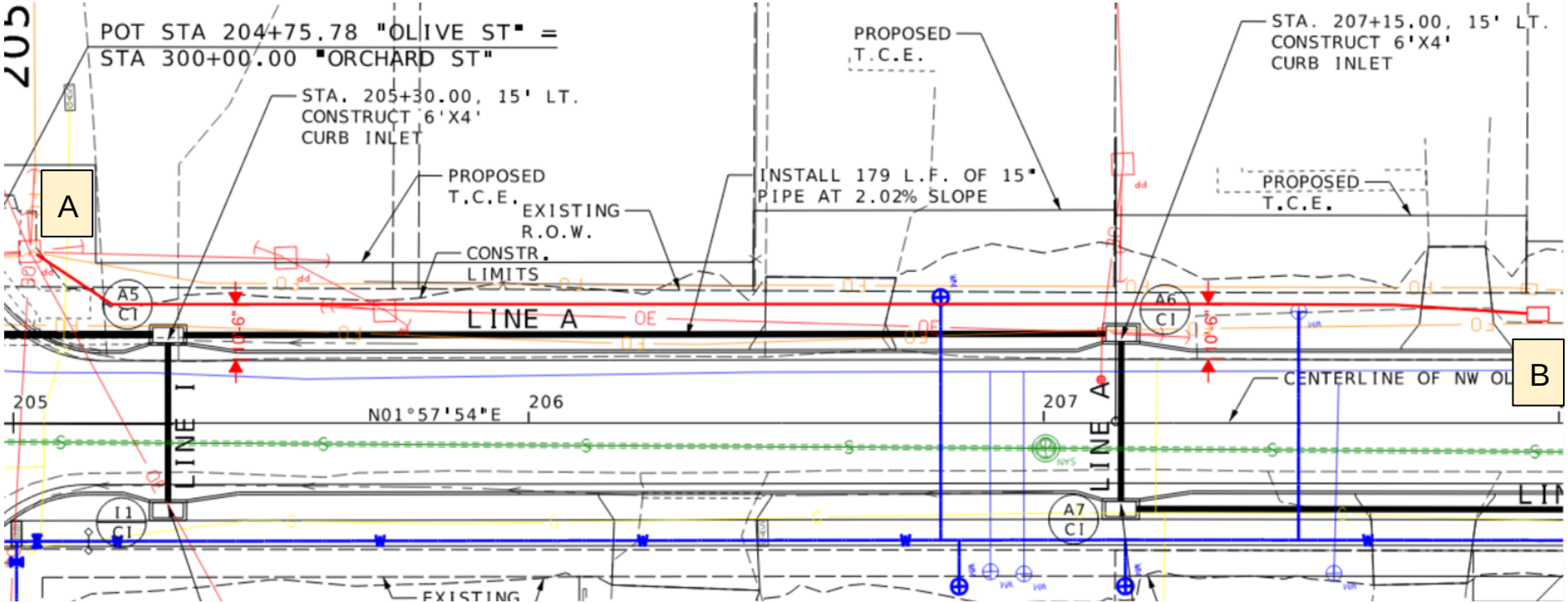
Vaults/Structures

A: Existing pole to remain.
B: Existing Small Vault to remain.

Span Distances

(A-B): ~ 310 linear Ft.




POT STA 204+75.78 "OLIVE ST" =
STA 300+00.00 "ORCHARD ST"
STA. 205+30.00, 15' LT.
CONSTRUCT 6'X4'
CURB INLET
PROPOSED
T.C.E.
EXISTING
R.O.W.
CONSTR.
LIMITS
INSTALL 179 L.F. OF 15"
PIPE AT 2.02% SLOPE
PROPOSED
T.C.E.
STA. 207+15.00, 15' LT.
CONSTRUCT 6'X4'
CURB INLET
PROPOSED
T.C.E.
A
B
A5
C1
A6
C1
LINE A
10.6%
10.6%
CENTERLINE OF NW OL
205
206
N01°57'54"E
207
LINE I
LINE A
I1
C1
A7
C1
EXISTING

Relocation of Conduit:

Bore

(C-E): 382 Ft. AF Suburban Conditions.

Place Conduit

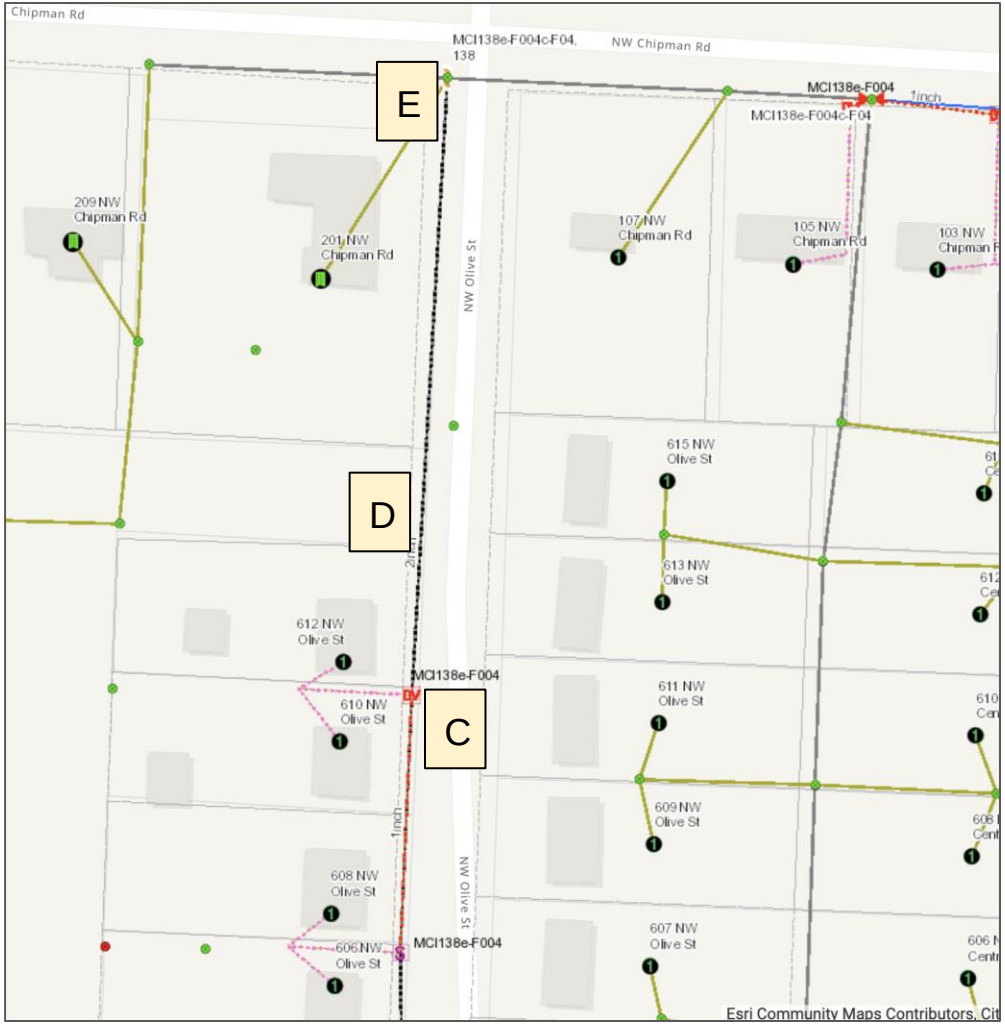
(C-E): Install 2" conduit from C to E at a minimum depth of 4' below grade at an offset of 11.0' behind the road between C and D, from D to E, follow the existing alignment of Google Fiber which is around 5' to 6' behind the road. At D There is a proposed storm sewer that will require a depth of 7' below grade. See slide 7.

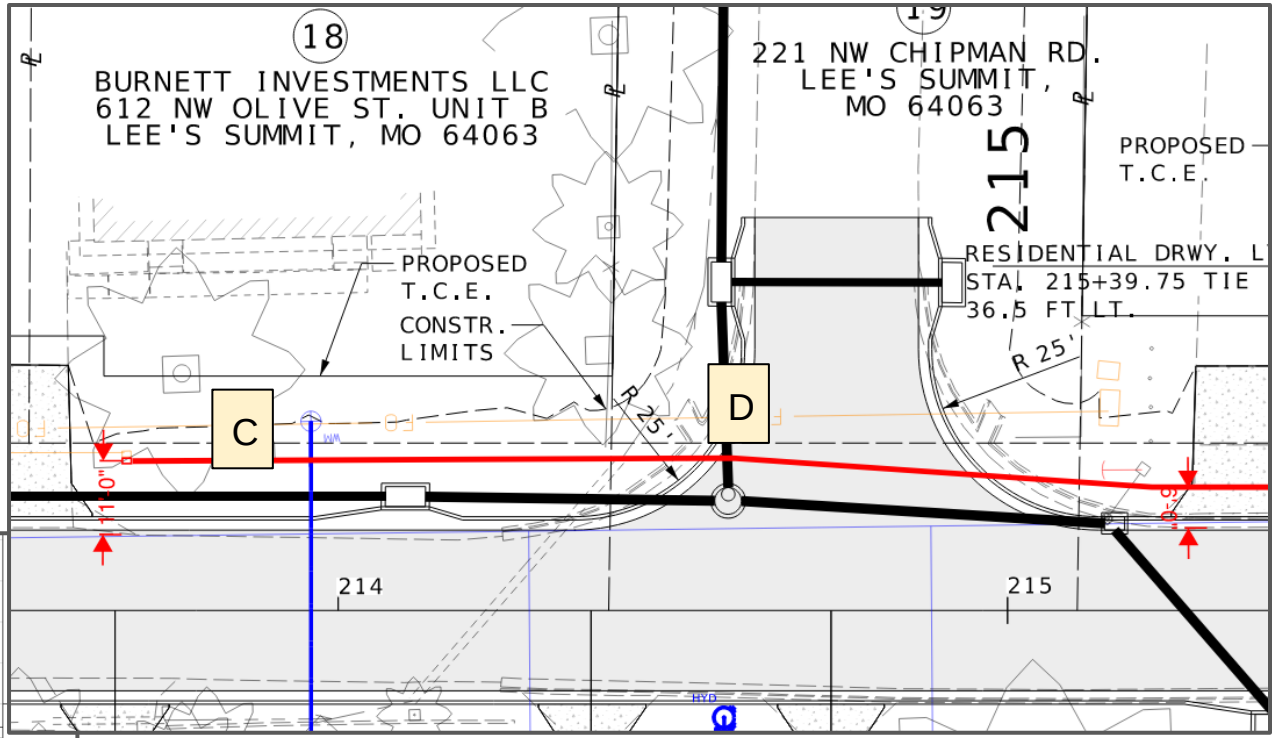
Vaults/Structures

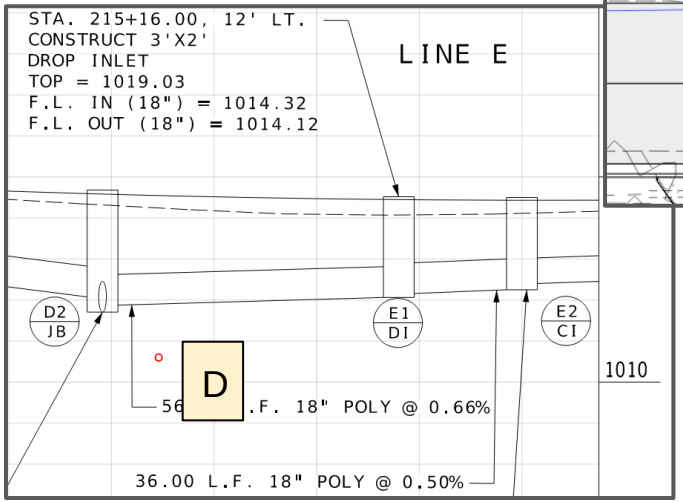
C: Existing drop vault to remain.
E: Existing pole with riser to remain.

Span Distances

(C-D): ~ 89 linear Ft.
(D-E): ~ 293 linear Ft.




18
BURNETT INVESTMENTS LLC
612 NW OLIVE ST. UNIT B
LEE'S SUMMIT, MO 64063
19
221 NW CHIPMAN RD.
LEE'S SUMMIT,
MO 64063
215
PROPOSED
T.C.E.
PROPOSED
T.C.E.
CONSTR.
LIMITS
RESIDENTIAL DRWY. L
STA. 215+39.75 TIE
36.5 FT LT.
R 25'
R 25'
C
D
11.0"
214
215


STA. 215+16.00, 12' LT.
CONSTRUCT 3'X2'
DROP INLET
TOP = 1019.03
F.L. IN (18") = 1014.32
F.L. OUT (18") = 1014.12
LINE E
D2
JB
E1
D1
E2
C1
D
1010
.F. 18" POLY @ 0.66%
36.00 L.F. 18" POLY @ 0.50%

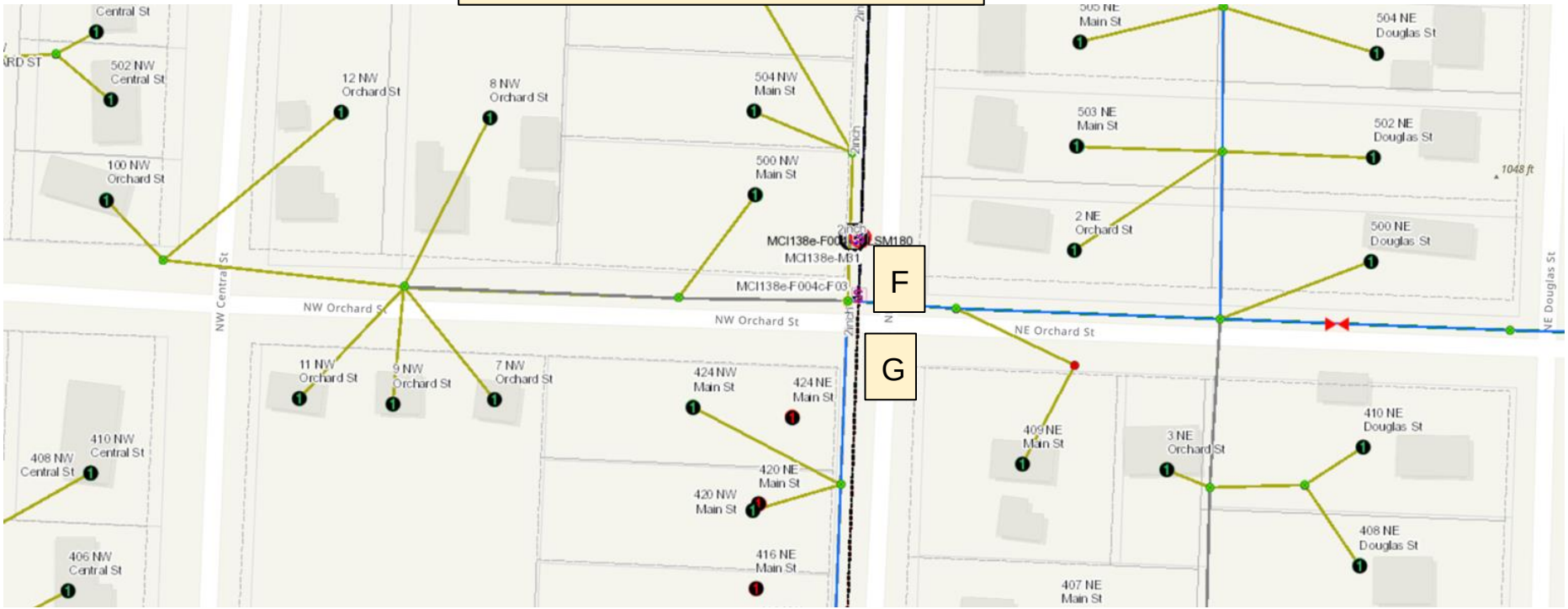
Relocation of Vaults and Conduit:

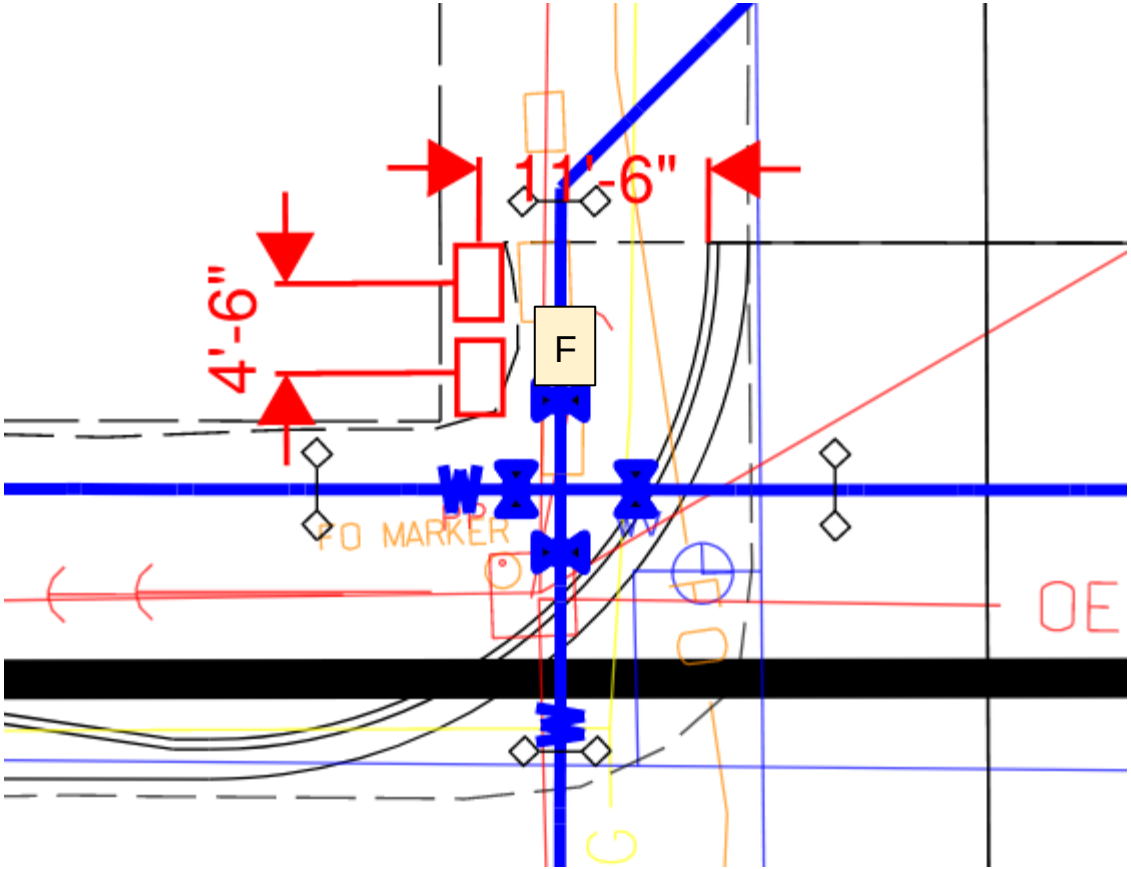
Vaults/Structures

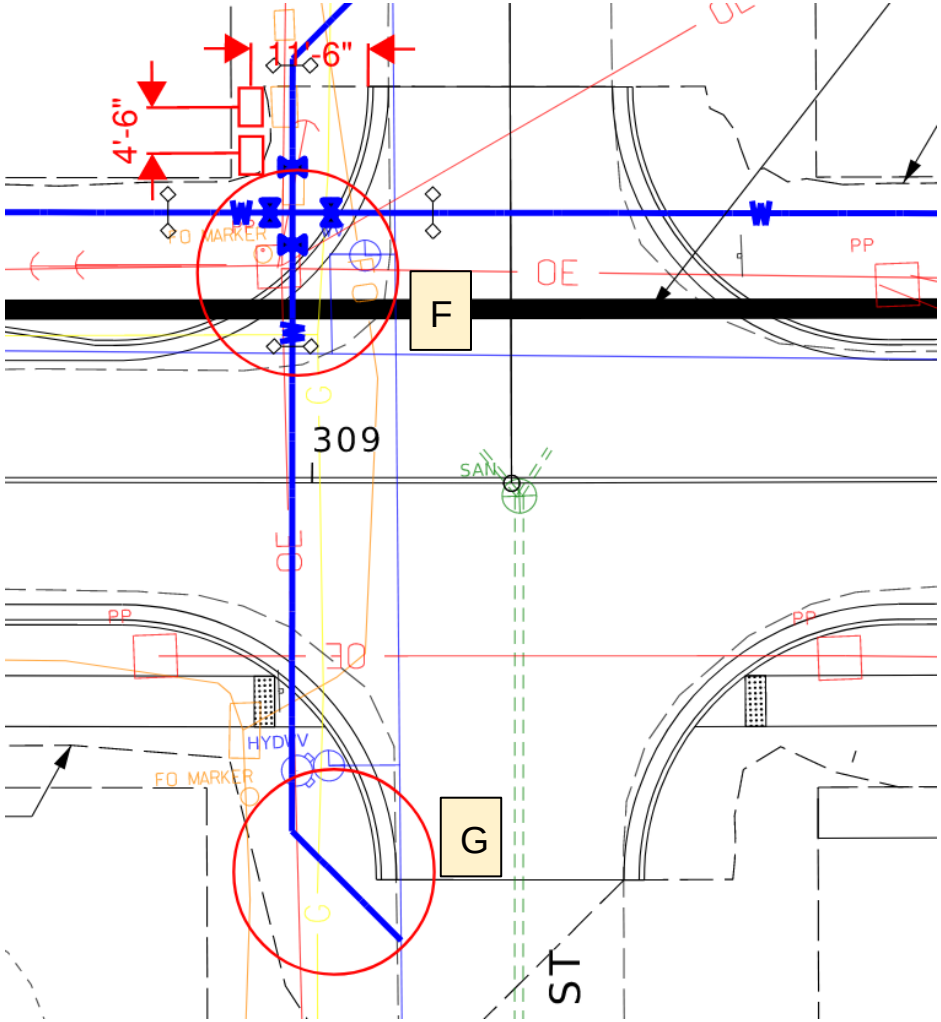
F: Existing vaults to be relocated 11.5’ behind the back of curb and clustered a bit closer together with the southern vault moving to be 4.5’ from the vault to the north.

Place Conduit

F and G: Conduit at this location is about 3' below grade. The conduit will need to be lowered in place to avoid the water main and storm sewer work. Recommended depth is 6' below grade. This work should take place directly before the city's work to limit the restoration needed with the manual lower in place.



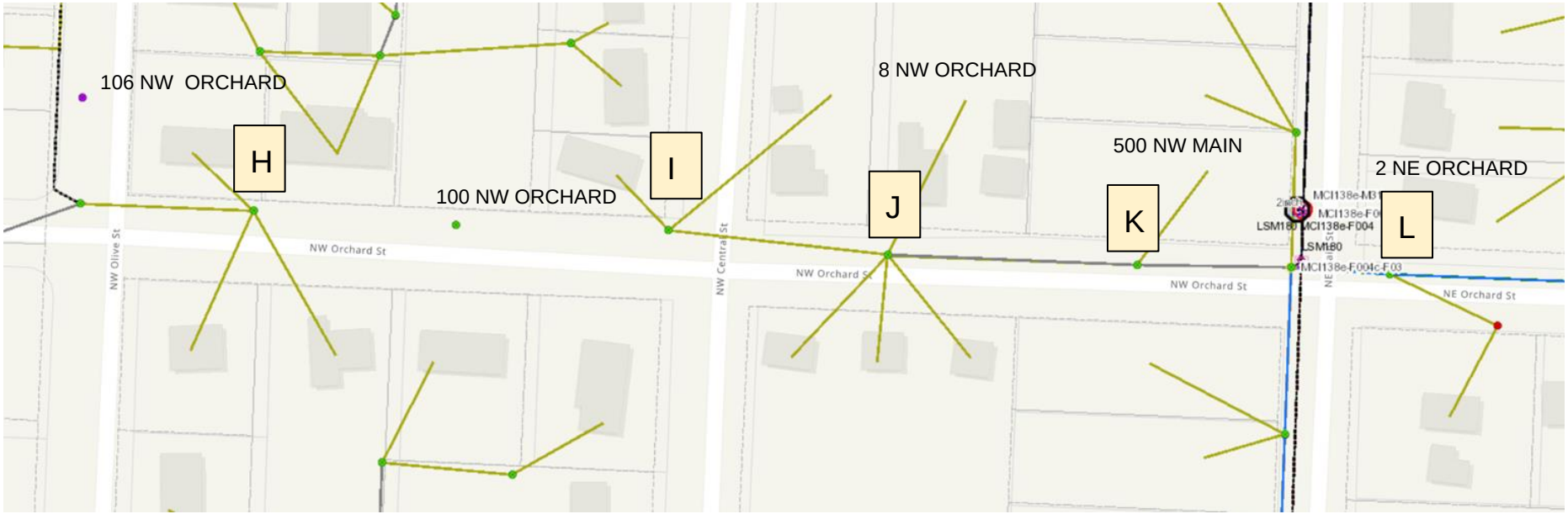

11'-6"
4'-6"
F
W
W
TO MARKER
OE


11'-6"
4'-6"
F
G
309
OE
PP
SAN
HYDWV
FO MARKER
ST

Relocation of Poles:

Vaults/Structures

H, I, J, K, L: Existing poles all to be removed and replaced with a pole nearby. Remove Google Fiber equipment and fiber and transfer to the new pole.



Fiber Placement:

Span Distances

(E-C): ~ 382 linear Ft.
(E-P): ~ 265 linear Ft.
(C-M): ~ 160 linear Ft.

Vaults/Structures

E: Existing pole with riser to remain.
C: Existing drop vault to remain.
M: Existing small vault to remain.
P: Existing pole to remain.

Splices/Equipment

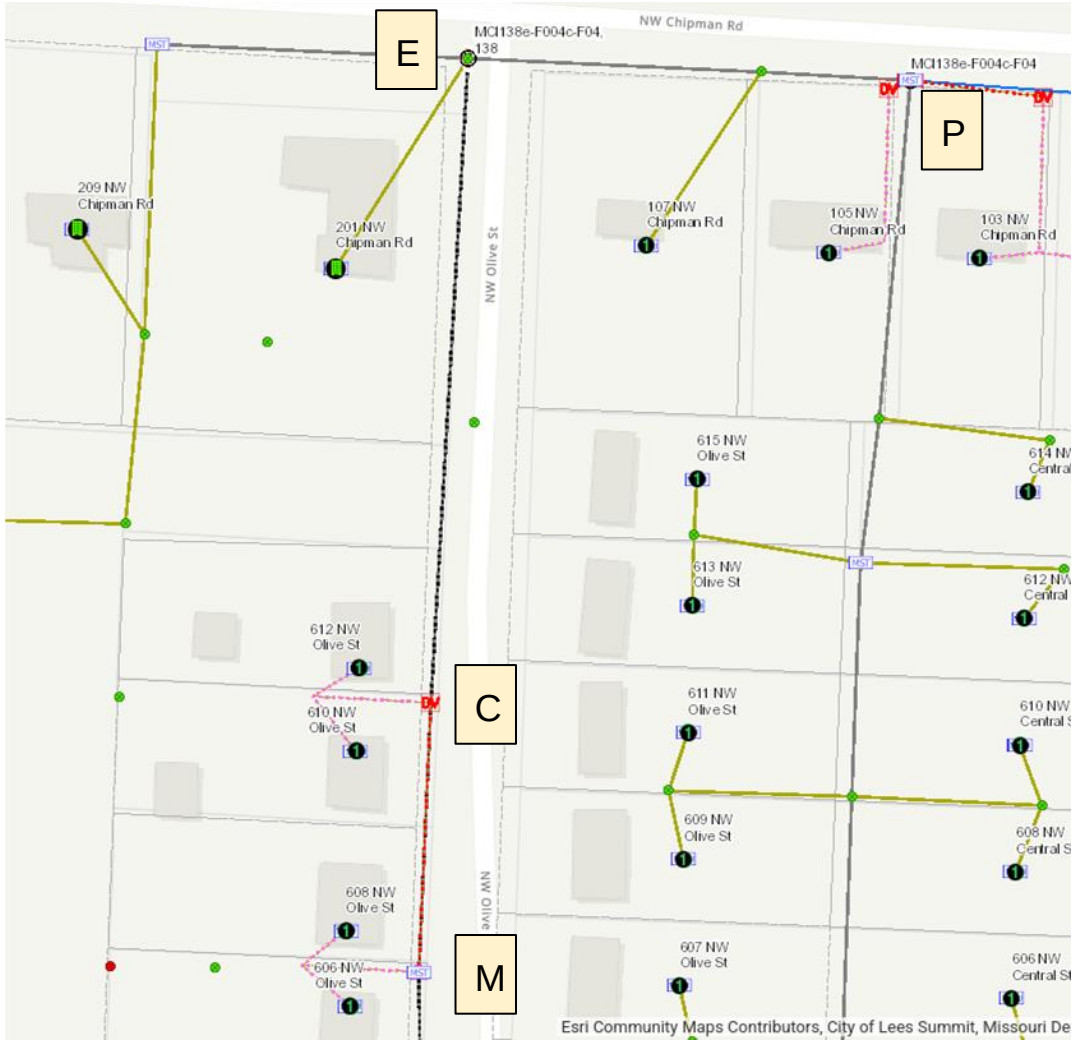
P: Existing aerial AF splice MCI138e-F004c-F04 to remain.
M: MST MCI138e-F004c-F04,137

Fiber

MST: ~ 807 linear Ft., 8-port 1000ft Cable Stub MST MCI138e-F004c-F04,137

Place new 8-port 1000ft Cable Stub MST at M. Place MST tail from M to P, following existing conduit from M to C, new conduit from C to E, and existing aerial route from E to P.

Drops: Replace any active drops originating at this MST



Fiber Placement:

Span Distances

(E-C): ~ 382 linear Ft.
(E-P): ~ 265 linear Ft.
(C-N): ~ 400 linear Ft.
(N-B): ~ 158 linear Ft.

Vaults/Structures

E: Existing pole with riser to remain.
C: Existing drop vault to remain.
N: Existing small vault to remain.
B: Existing small vault to remain.
P: Existing pole to remain.

Splices/Equipment

P: Existing aerial AF splice MCI138e-F004c-F04 to remain.
N: MST MCI138e-F004c-F04,136
B: MST MCI138e-F004c-F04,135

Fiber

MST: ~ 1047 linear Ft., 1500ft Cable Stub 8-port MST MCI138e-F004c-F04,136

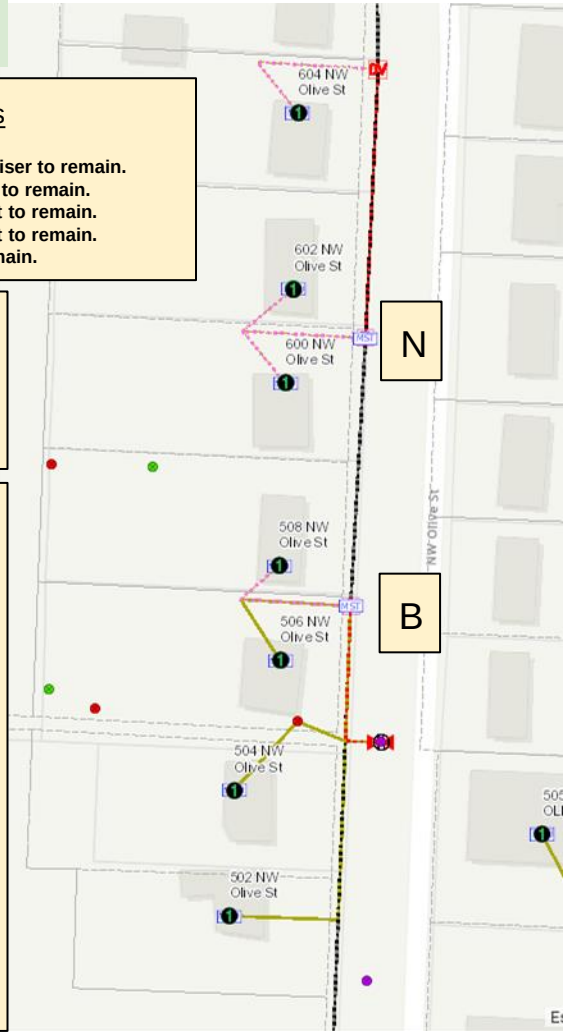
Place new 8-port 1500ft Cable Stub MST at N. Place MST tail from N to P, following existing conduit from N to C, new conduit from C to E, and existing aerial route from E to P.

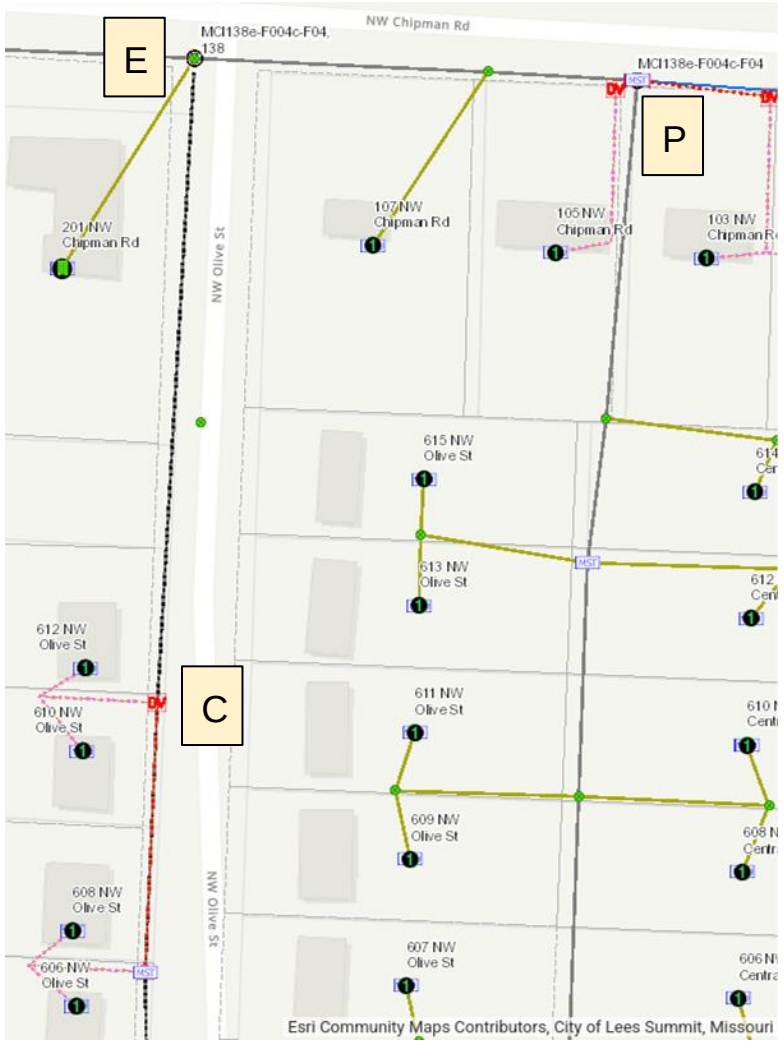
Drops: Replace any active drops originating at this MST

MST: ~ 1205 linear Ft., 1500ft Cable Stub 8-port MST MCI138e-F004c-F04,135

Place new 8-port 1500ft Cable Stub MST at B. Place MST tail from B to P, following existing conduit from B to C, new conduit from C to E, and existing aerial route from E to P.

Drops: Replace any active drops originating at this MST





Fiber Placement:

Span Distances

(E-C): ~ 382 linear Ft.
(E-P): ~ 265 linear Ft.
(C-B): ~ 558 linear Ft.
(B-A): ~ 310 linear Ft.
(A-O): ~ 365 linear Ft.

Vaults/Structures

E: Existing pole with riser to remain.
C: Existing drop vault to remain.
B: Existing small vault to remain.
A: Existing pole with riser to remain.
O: Existing pole to remain.
P: Existing pole to remain.

Splices/Equipment

P: Existing aerial AF splice MCI138e-F004c-F04 to remain.
A: MST MCI138e-F004c-F04,134
O: MST MCI138e-F004c-F04,133

Fiber

MST: ~ 1515 linear Ft., 2000ft Cable Stub 8-port MST MCI138e-F004c-F04,134

Place new 8-port 2000ft Cable Stub MST at A. Place MST tail from A to P, following new conduit from A to B, existing conduit from B to C, new conduit from C to E, and existing aerial route from E to P.

Drops: Replace any active drops originating at this MST

MST: ~ 1880 linear Ft., 2000ft Cable Stub 8-port MST MCI138e-F004c-F04,133

Place new 8-port 2000ft Cable Stub MST at O. Place MST tail from O to P, following existing aerial route from O to A, new conduit from A to B, existing conduit from B to C, new conduit from C to E, and existing aerial route from E to P.

Drops: Replace any active drops originating at this MST