

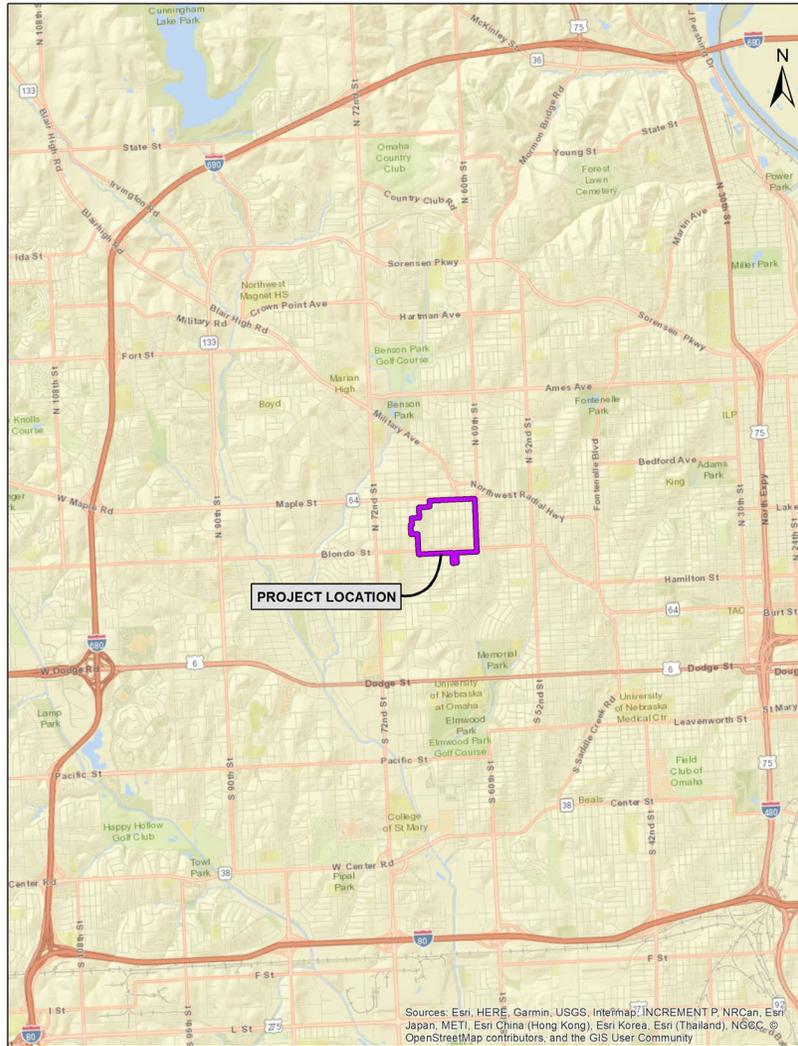
OPW 53320

PCN 210 SEWER SEPARATION

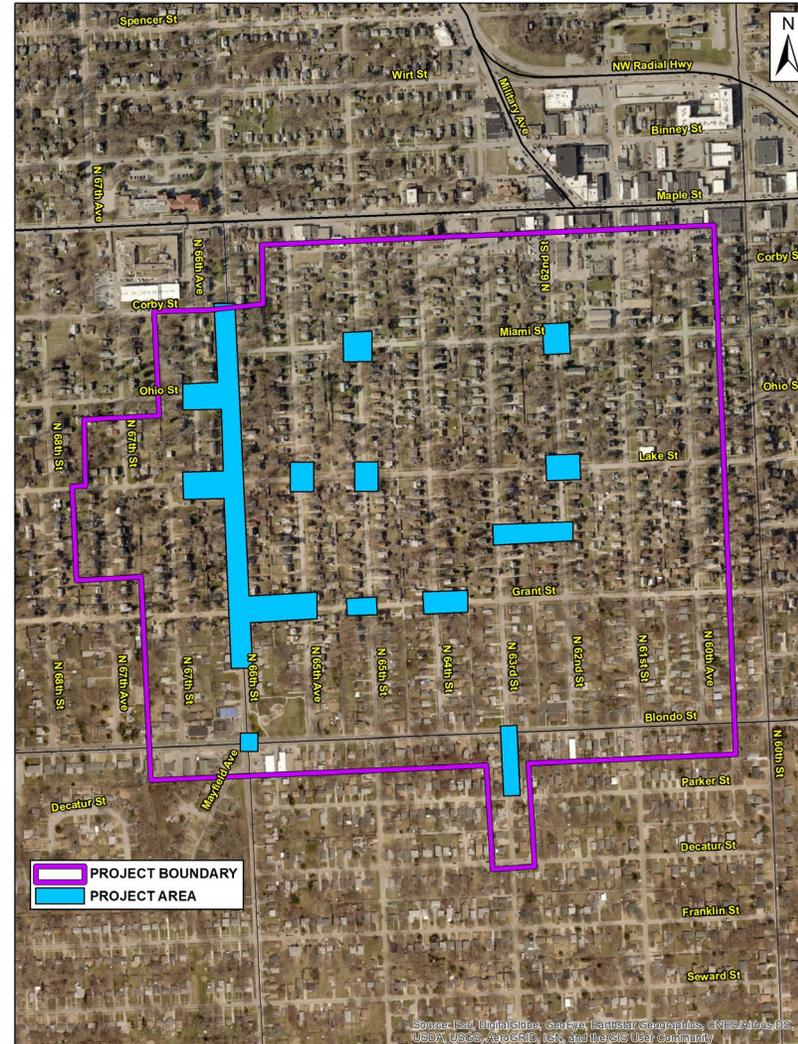
CONSTRUCTABILITY REVIEW WORKSHOP

MAY 20, 2020





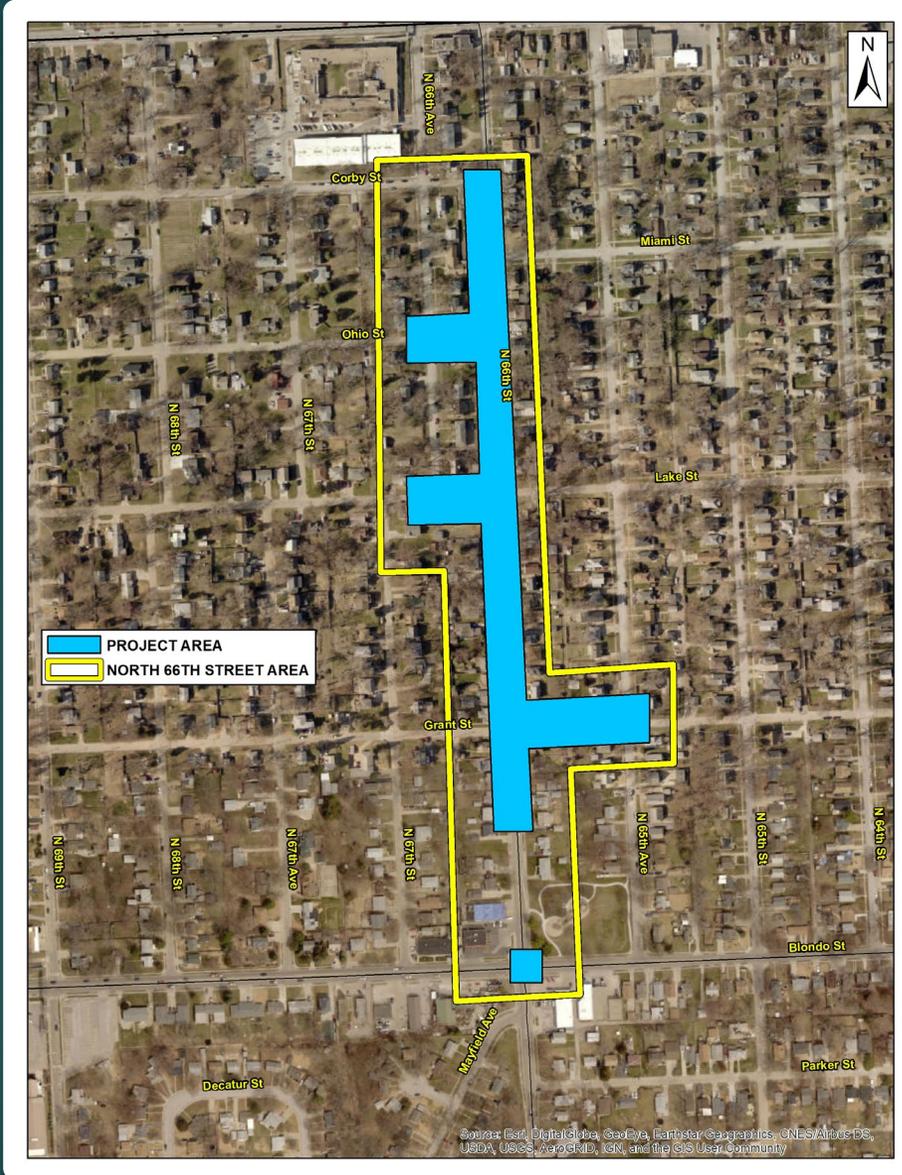
Project Location Map



Project Location

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project – N 66th Street Area





Projects – Other Areas

Scope of Project

- ▶ 3,400 Linear Feet of Storm Sewer – 12" to 42"
- ▶ 2,255 Linear Feet of Sanitary Sewer – 8" to 12"
- ▶ 27 Storm Manholes
- ▶ 70 New Storm Inlets
- ▶ 30 New Sanitary Manholes
- ▶ 40 Sanitary Sewer Transfers

Pavement Replacement

- ▶ Generally Full Width Pavement Replacement
- ▶ 14,500 Square Yards of 7" PCC
- ▶ 2,250 Square Yards of Concrete Driveway
- ▶ 13,700 Square Feet of Sidewalk

Project Schedule

- ▶ Anticipated Advertisement – Fall 2020
- ▶ Anticipated Notice to Proceed – March 2021
- ▶ Substantial Completion – November 2021
- ▶ Final Completion – June 2022

Bidding Items

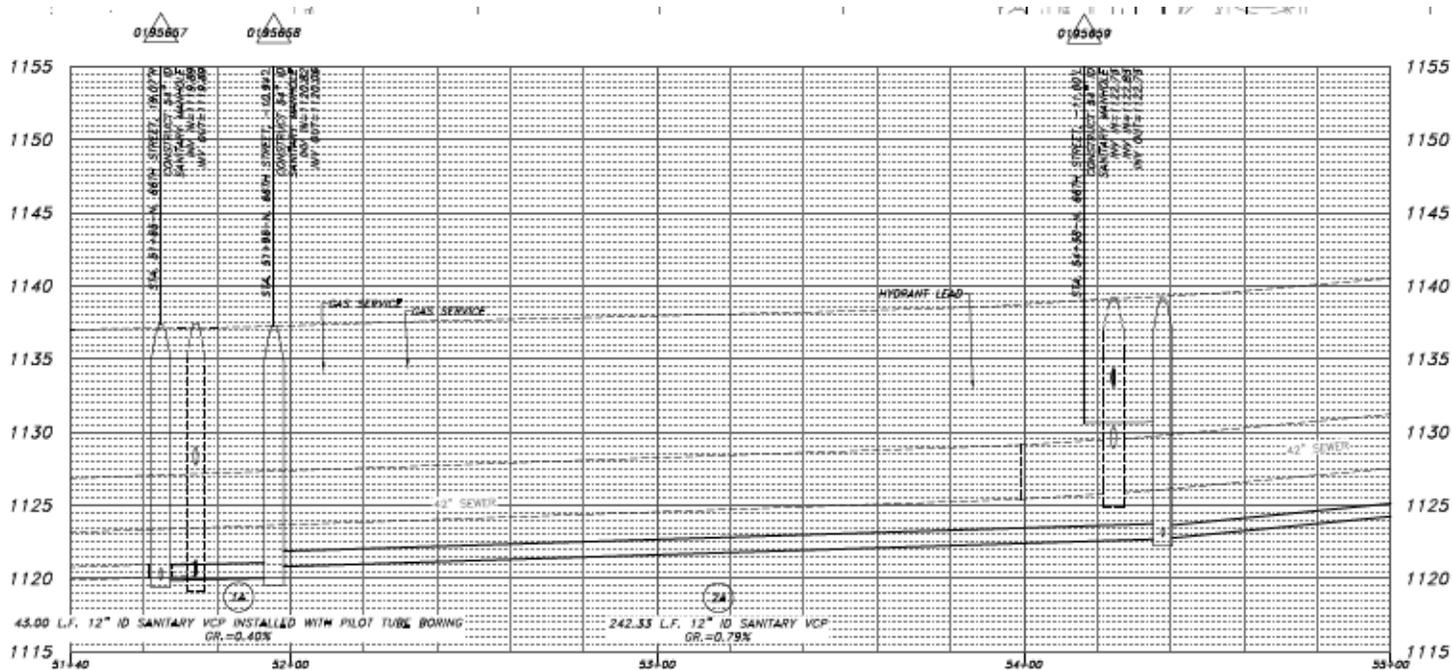
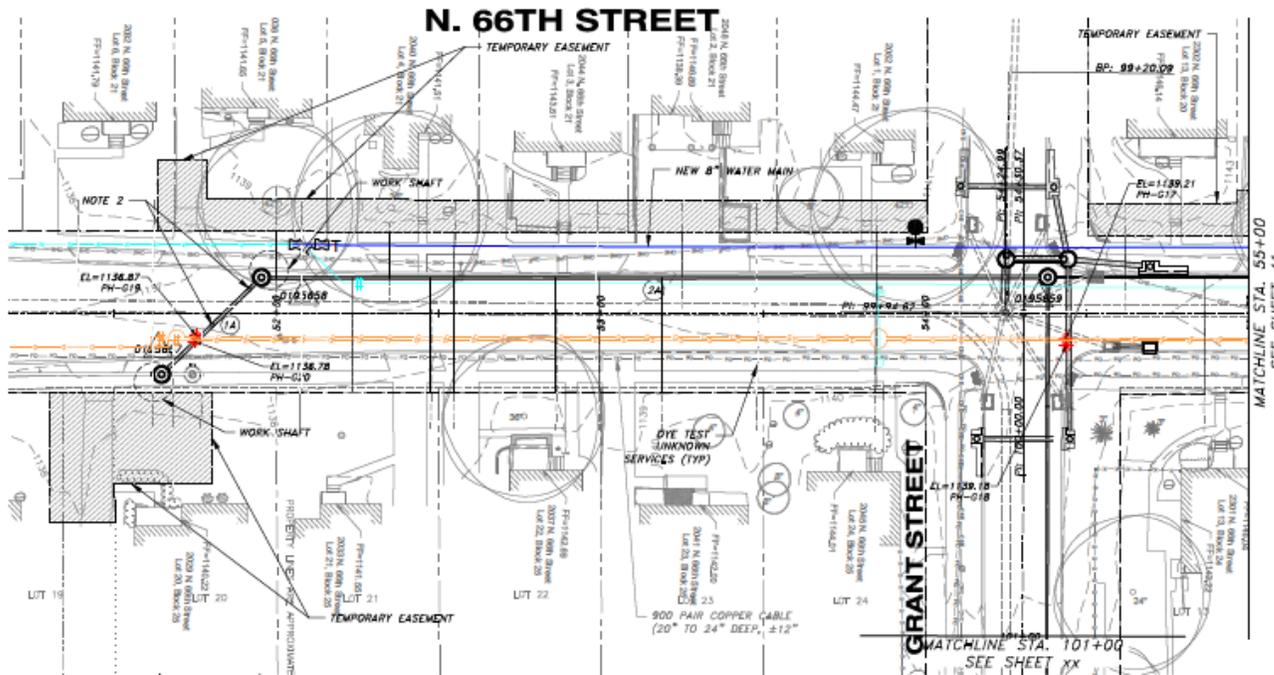
- ▶ Unit Price Items
- ▶ Some Allowances and Allowance Items
- ▶ City of Omaha Small and Emerging Business Program
- ▶ 2020 City of Omaha Specifications and Plates

Constructability – N 66th – South of Grant to Lake

- ▶ Minor Modifications to Diversion at Blondo
- ▶ Sanitary Sewer South of Grant to South of Lake – 15' to 17' Deep
- ▶ Groundwater +/- 10-12' Deep
- ▶ Pilot Tube Bore under Existing Combined – South of Grant
- ▶ Tight Space – West Half of Street
- ▶ Pilot Tube Bore under Existing Combined – at Grant
- ▶ Service Line Transfer from Combined to Existing and New Sanitary
- ▶ MUD will Relocate Water Main
- ▶ OPPD will Take Down Street Light Poles

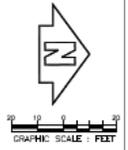
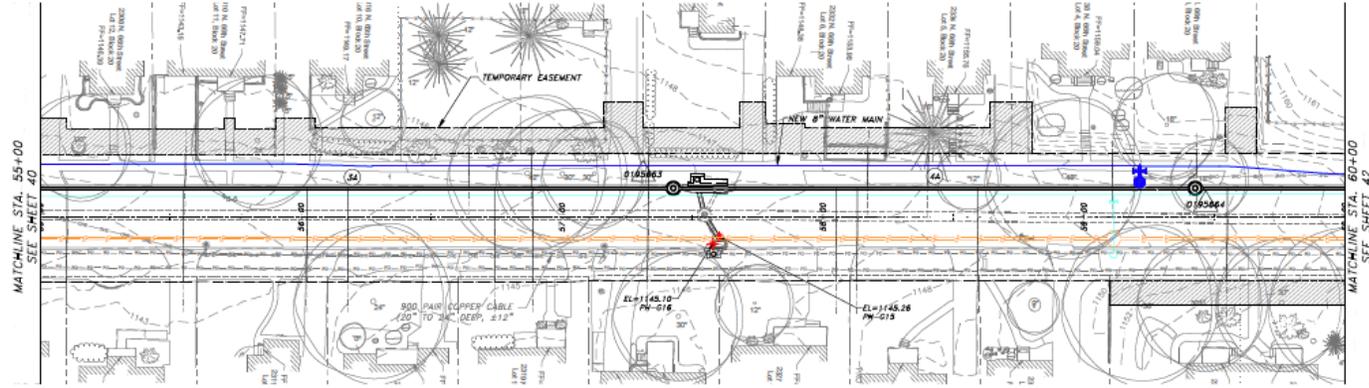
Constructability – N 66th Lake to Corby

- ▶ Storm Sewer Near West Curb Line
- ▶ MUD will Relocate Water Main
- ▶ OPPD will Take Down Street Light Poles
- ▶ Relatively Shallow – Above Groundwater



Constructability
- N 66th - South
of Grant

N. 66TH STREET



MATCHLINE STA. 55+00
SEE SHEET 40

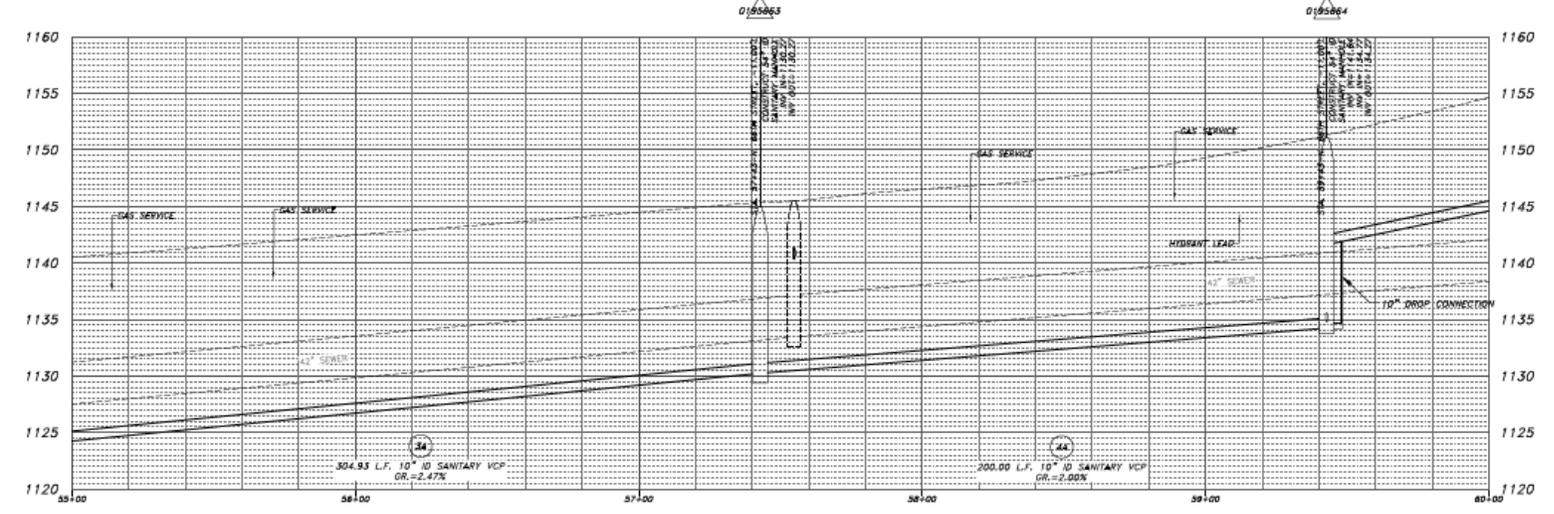
MATCHLINE STA. 60+00
SEE SHEET 42

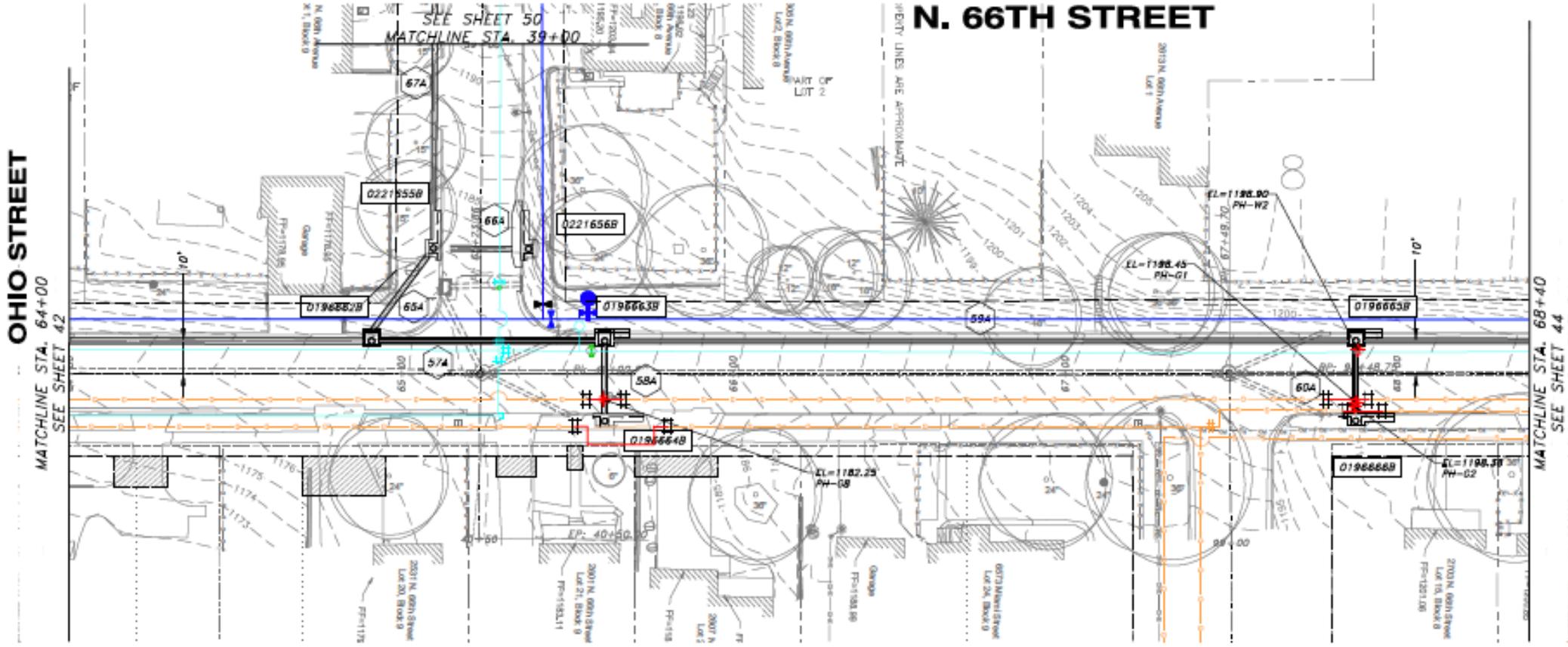
CONSTRUCT SANITARY DROP CONNECTION			
NO.	LOCATION	SIZE	REMARKS
004	0195664	10"	DROP CONNECTION

CONSTRUCT SANITARY SEWER PIPE				
NO.	LOCATION	SIZE	LENGTH	REMARKS
34	0195659 to 0195663	10	304.93	VCP
44	0195663 to 0195664	10	200.00	VCP

CONSTRUCT MANHOLE - STD. PLT. 703-03						
No.	LOCATION	SIZE	V.F.	F.L.	REMARKS	
0195663	STA. 57+42.76, -11.00' N 352368.5793, E 2736196.9515	54"	13.02	1130.27 (10° N) 1130.27 (10° S)	SANITARY MANHOLE	
0195664	STA. 59+42.76, -11.00' N 552768.3649, E 2736187.6930	54"	16.80	1141.84 (10° N) 1134.77 (10° N) 1134.27 (10° S)	SANITARY MANHOLE CONSTRUCT 10" DROP CONNECTION NORTH	

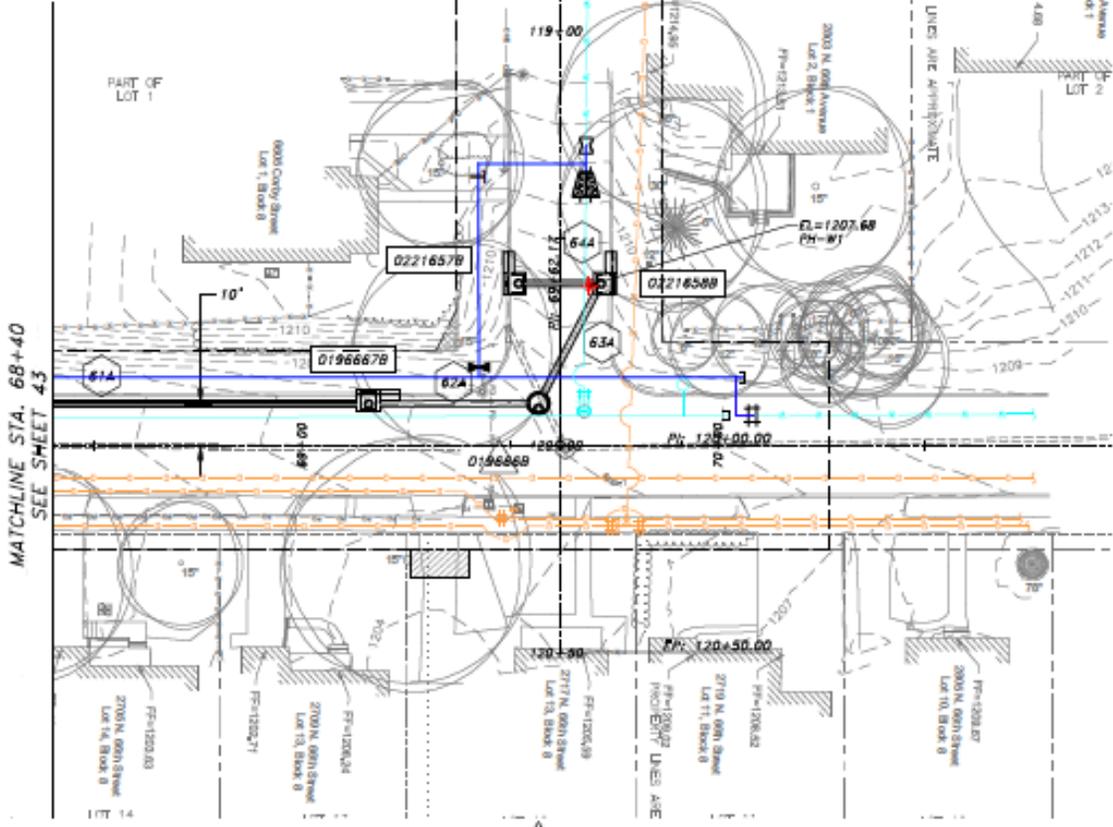
NOTES:
1. TRANSFER 18 SERVICES FROM EXISTING COMBINED SEWER TO NEW 12" SANITARY SEWER.





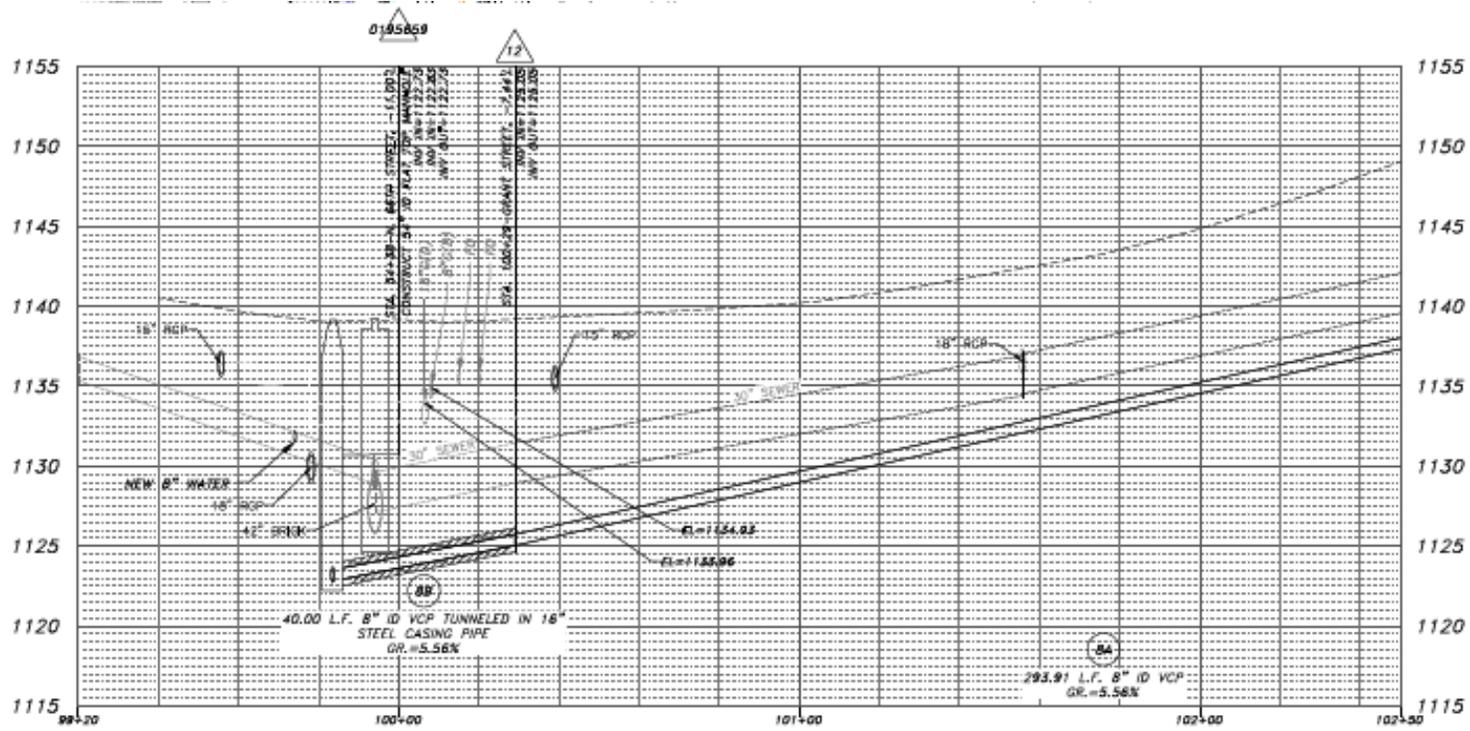
CORBY STREET

N. 66TH STREET



Constructability – Branches from N 66th

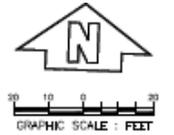
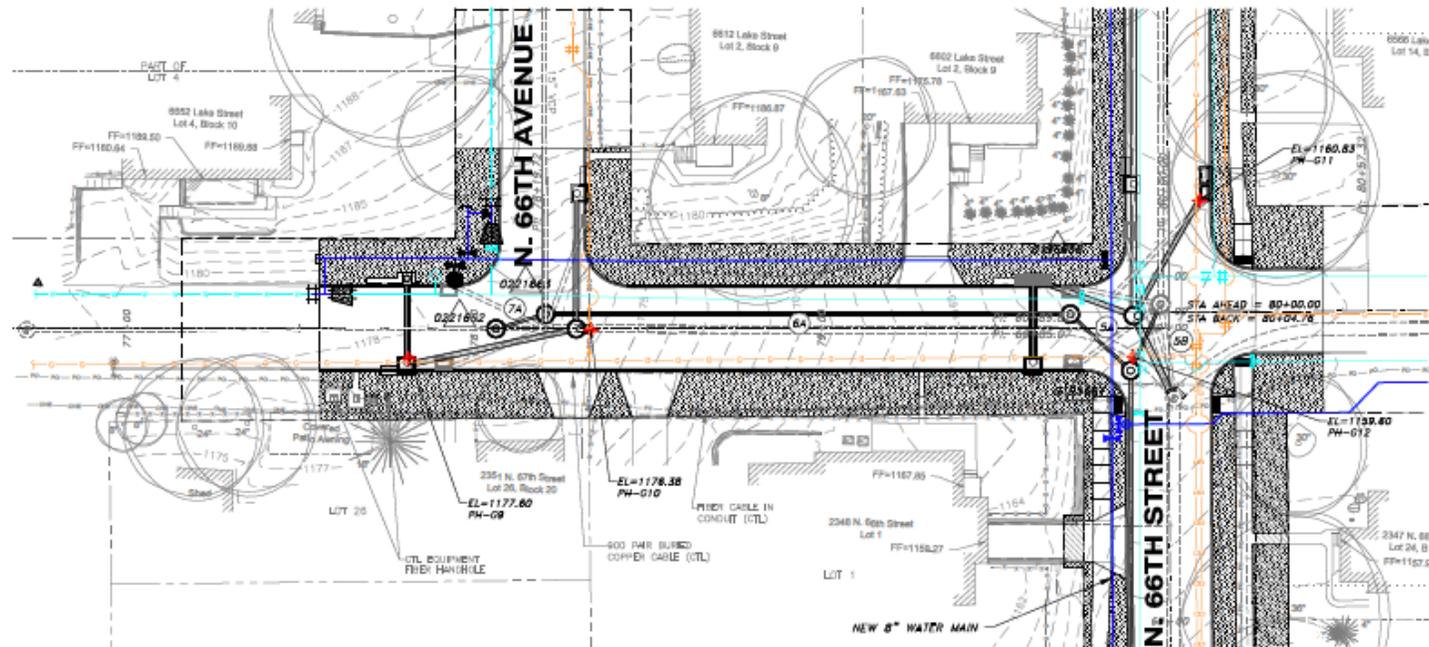
- ▶ Sanitary Sewer – Grant – N 66th to N 65th Avenue
 - ▶ One Service Transfer
 - ▶ Pilot Tube Under Existing Sewer
- ▶ Sanitary Sewer – Lake – N 66th to N 66th Avenue
 - ▶ One Service Transfer



NOTES

1. STA 99+00 TO 103+36, REMOVE SANITARY SERVICES FROM EXISTING COMBINED SEWER; RECONNECT TO 8" SANITARY PIPE

LAKE STREET



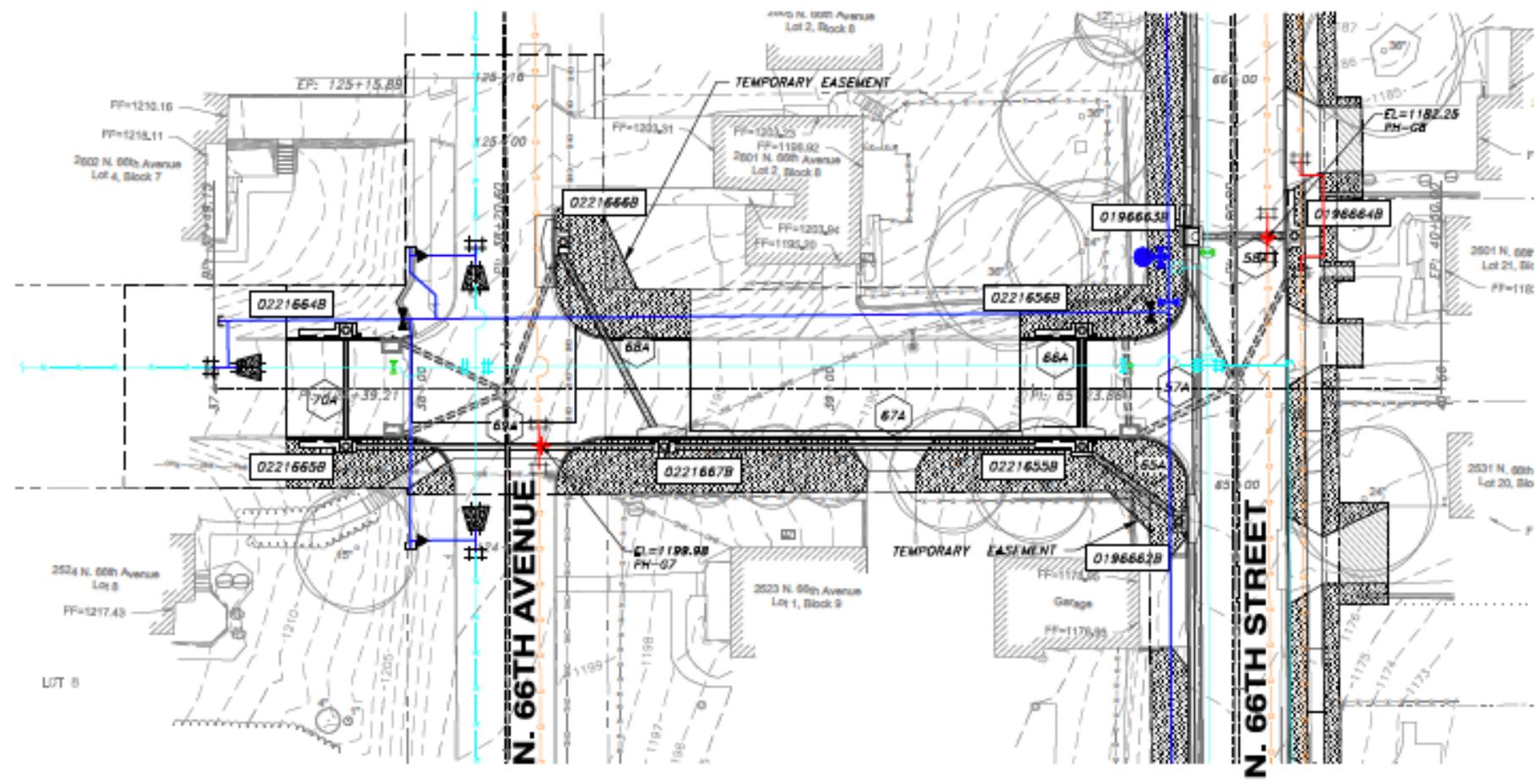
CONSTRUCT MANHOLE - STD. PLT. 703-03

No.	LOCATION	SIZE	V.F.	F.L.=	REMARKS
0221862	STA. 78+06.38, 0.24%	54"	12.48	1166.11 (8" W) 1163.32 (8" E)	SANITARY MANHOLE CONSTRUCT 15" DROP CONNECTION NORTH
0221863	STA. 78+20.65, -4.00%	54"	12.24	1163.00 (8" W) 1167.45 (15" N) 1163.00 (8" E)	SANITARY MANHOLE

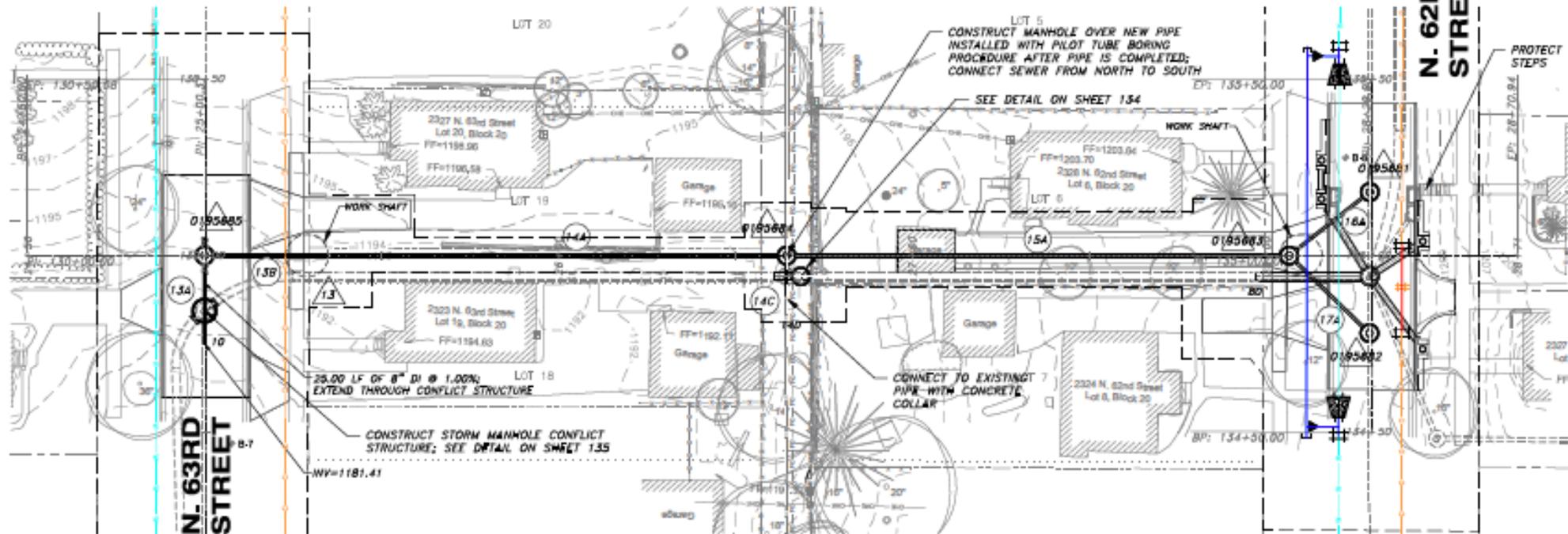
CONSTRUCT SANITARY SEWER PIPE

NO.	LOCATION	SIZE	LENGTH	REMARKS
64	0196638 to 0221863	8	151.06	VCP
7A	0221863 to 0221862	8	14.89	VCP

OHIO STREET

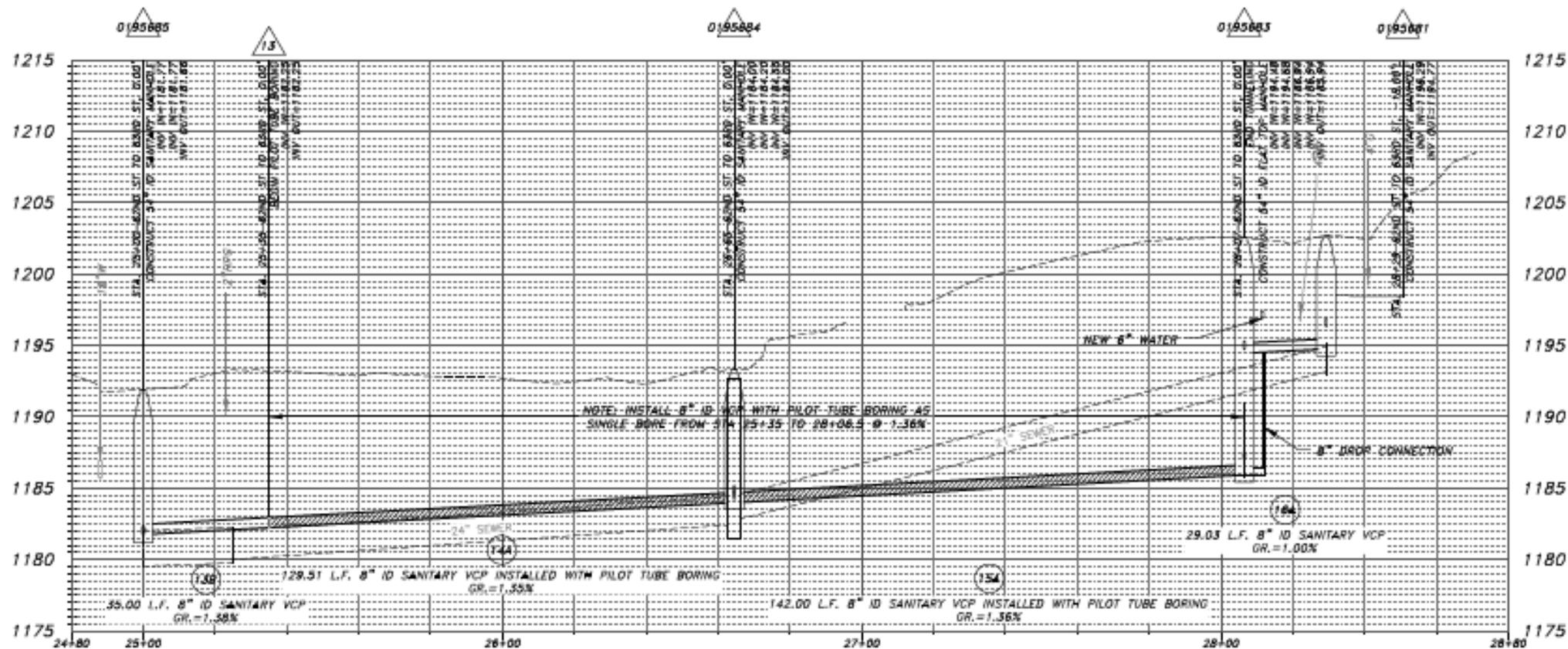


N. 62ND ST TO N. 63RD ST



NOTES:

1. PROVIDE TEMPORARY WASTEWATER PUMPING IN N. 63RD STREET AND IN ALLEY DURING TUNNELING OPERATIONS; EXTEND TUNNEL THROUGH SANITARY SEWER IN ALLEY FOR CONTINUOUS TUNNEL STA 25+35 TO 28+07; REMOVE CASING AND PIPE AT MANHOLE 14A, SHOWN IN PROFILE AS PIPE 14A AND 15A.

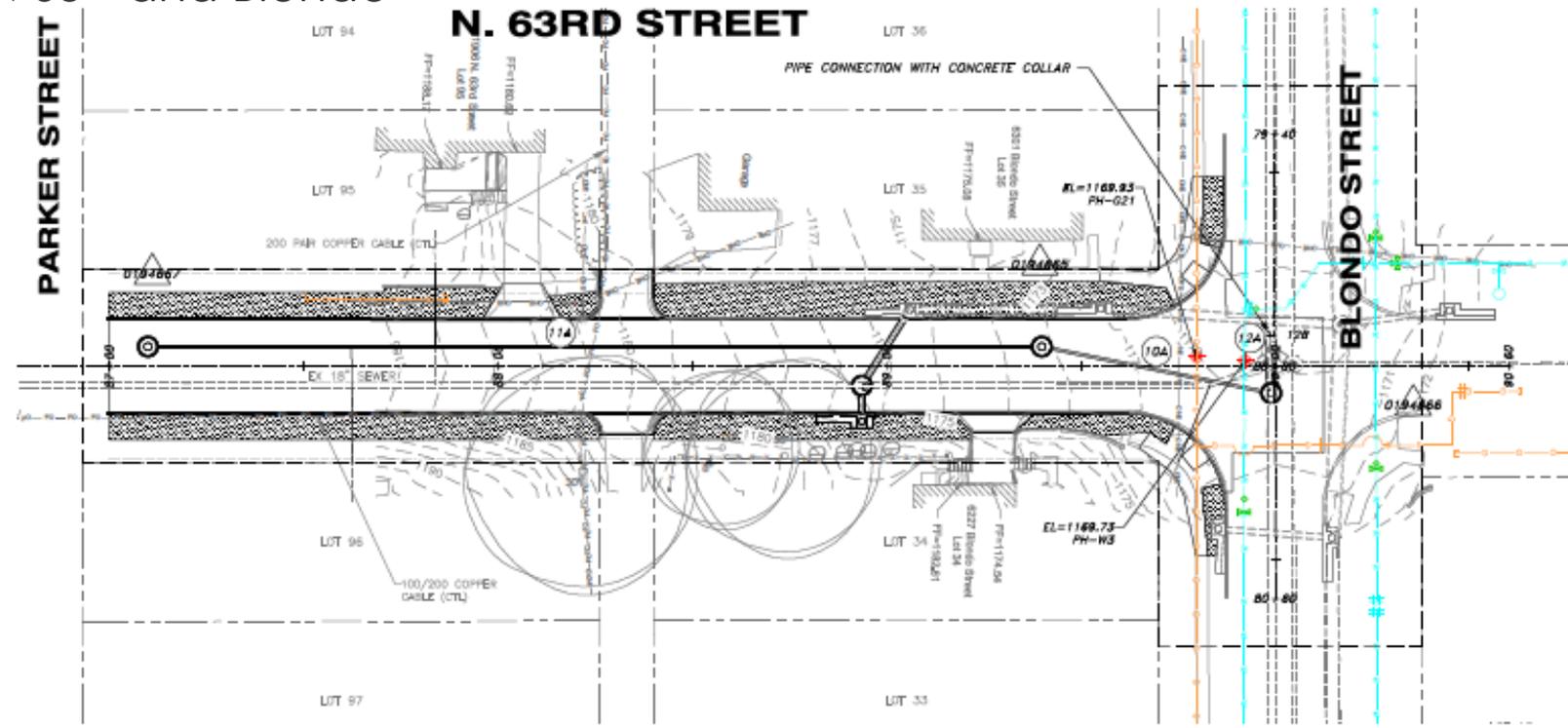


Constructability – N 62nd to N 63rd

- ▶ Single Pilot Tube Bore
- ▶ Conflict Structure Manhole on N 63rd
- ▶ Install New Sanitary Near Hole in Manhole
- ▶ Install New Storm Manhole Alley
- ▶ Reconnect 8" Sanitary Sewer to New Sanitary
- ▶ Find End of Sewers and Install Manholes
- ▶ Remove Garage
- ▶ Extensive Piping at N 62nd

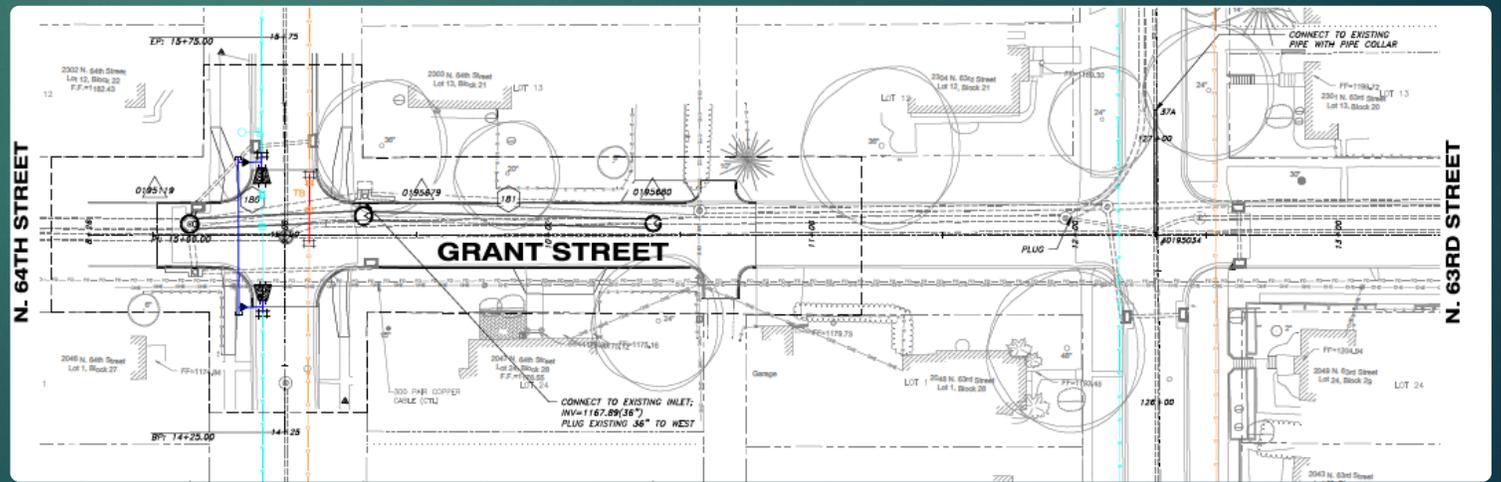
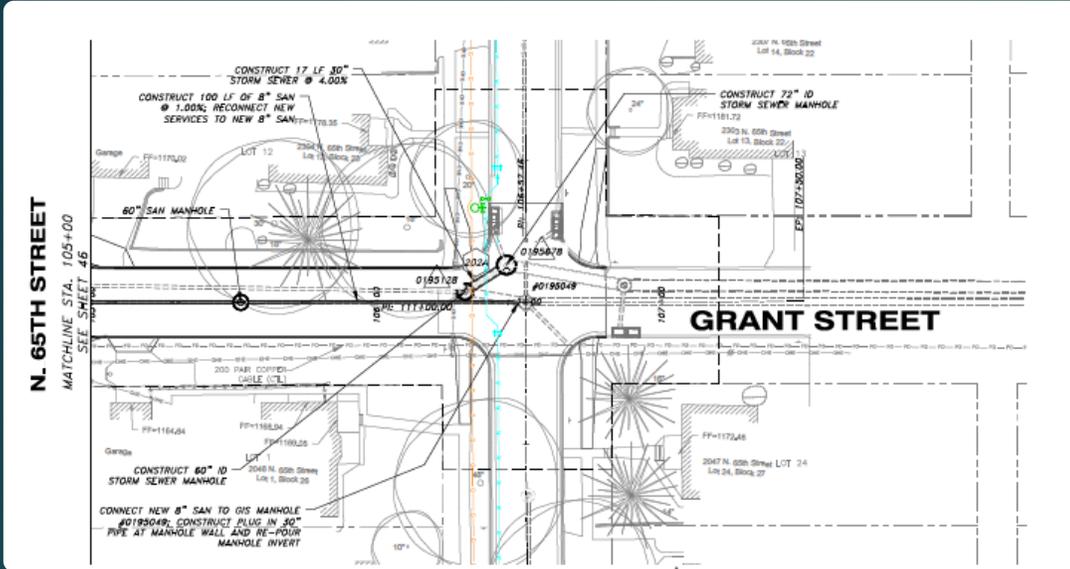
Constructability – N 63rd Street

- ▶ Sanitary Sewer in N 63rd Street
- ▶ Transfer 2 Sewers
- ▶ Small Storm Sewer Extension
- ▶ Work in Intersection N 63rd and Blondo

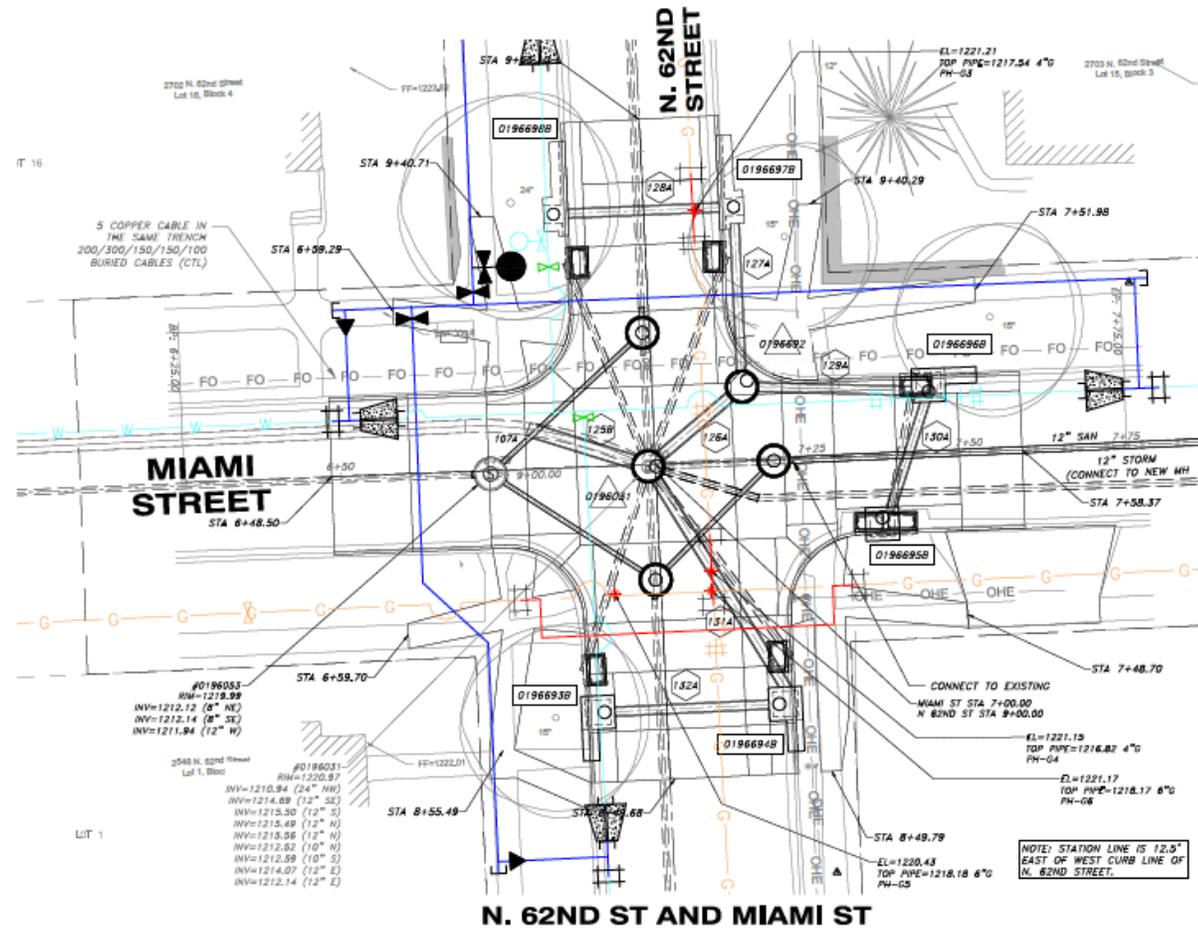


Constructability – Grant Street at N 65th and N 64th

25

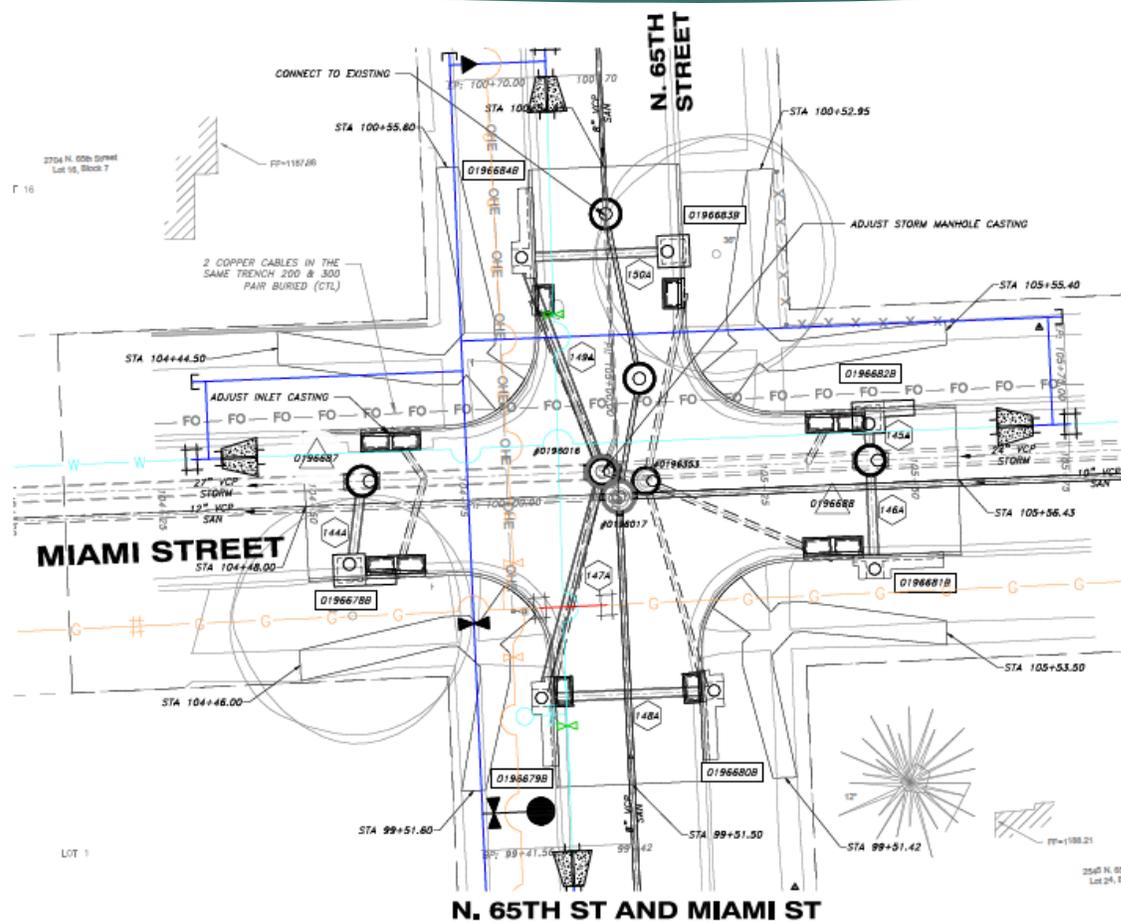


Intersection Modifications

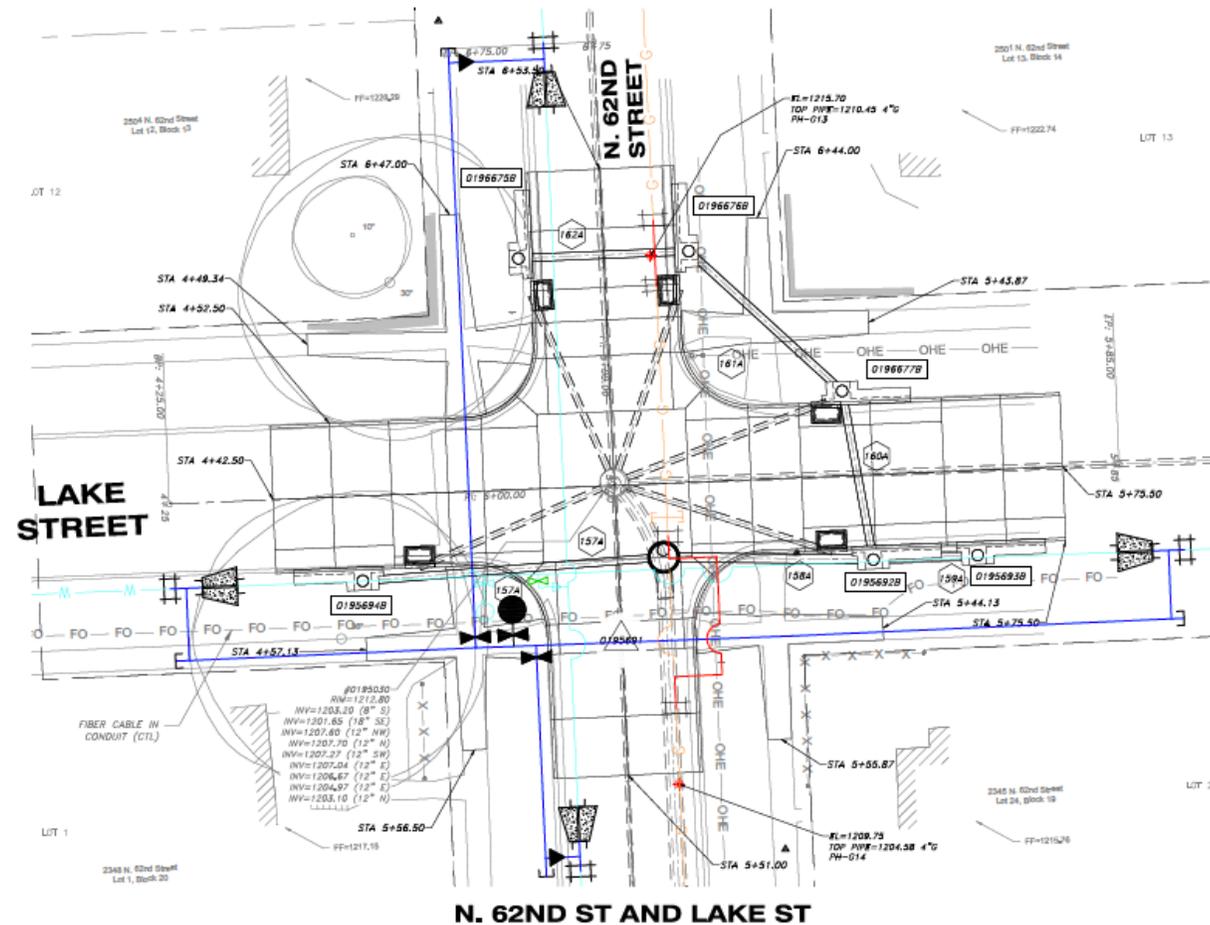


N. 62ND ST AND MIAMI ST

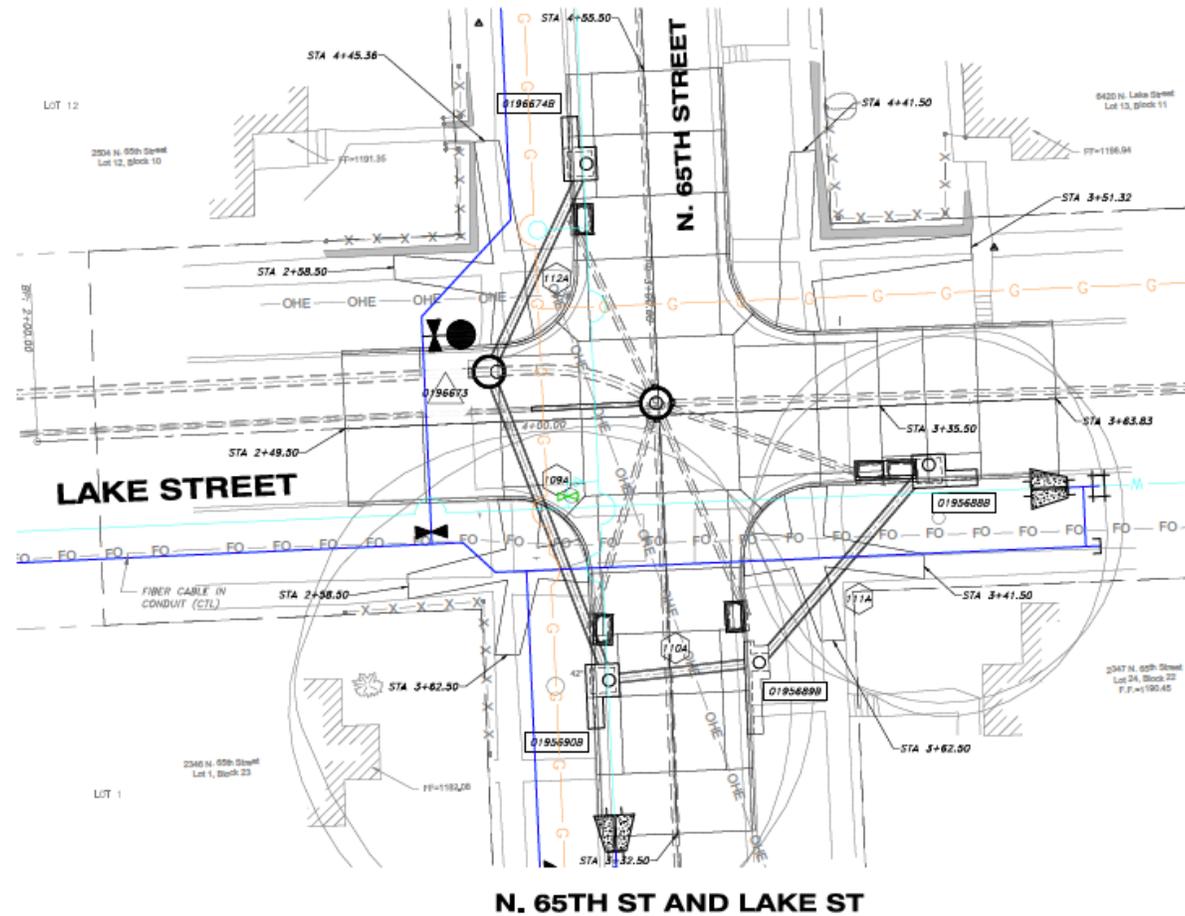
Intersection Modifications



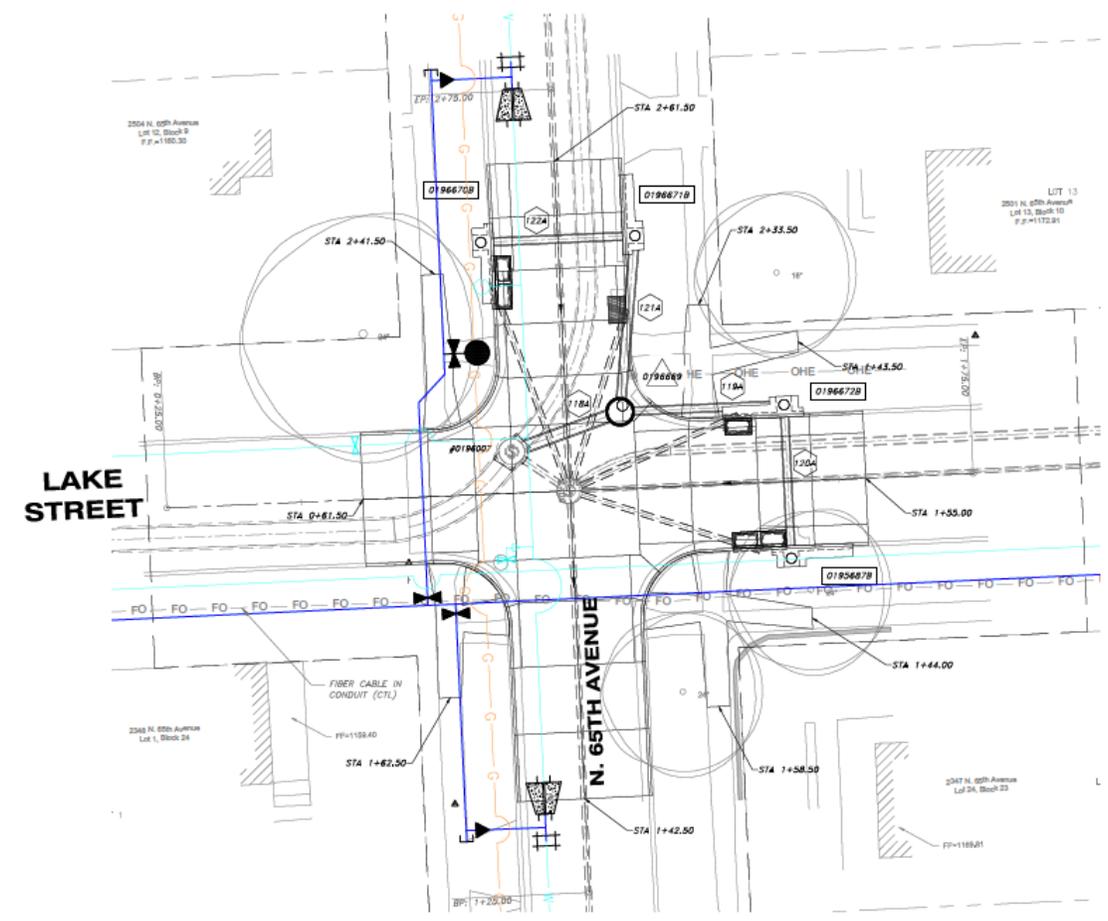
Intersection Modifications



Intersection Modifications



Intersection Modifications



N. 65TH AVE AND LAKE ST

Utility Relocation and Coordination

- ▶ MUD Gas and Water Main Relocation will start in October 2020
- ▶ Century Link Minor Relocations will start in October 2020
- ▶ OPPD Pole Relocations and Removal will occur during Construction
- ▶ Cox Relocations will occur in Conjunction with OPPD Pole Relocation
- ▶ Plans will show MUD Gas and Water Relocations

Traffic Control

- ▶ Multiple Stages for Construction
- ▶ N 66th Stages are from South to North
- ▶ Balance of Work Not Associated with N 66th Area Can Occur at Almost Any Time – with Limitation Consecutive Intersections Cannot Be Closed