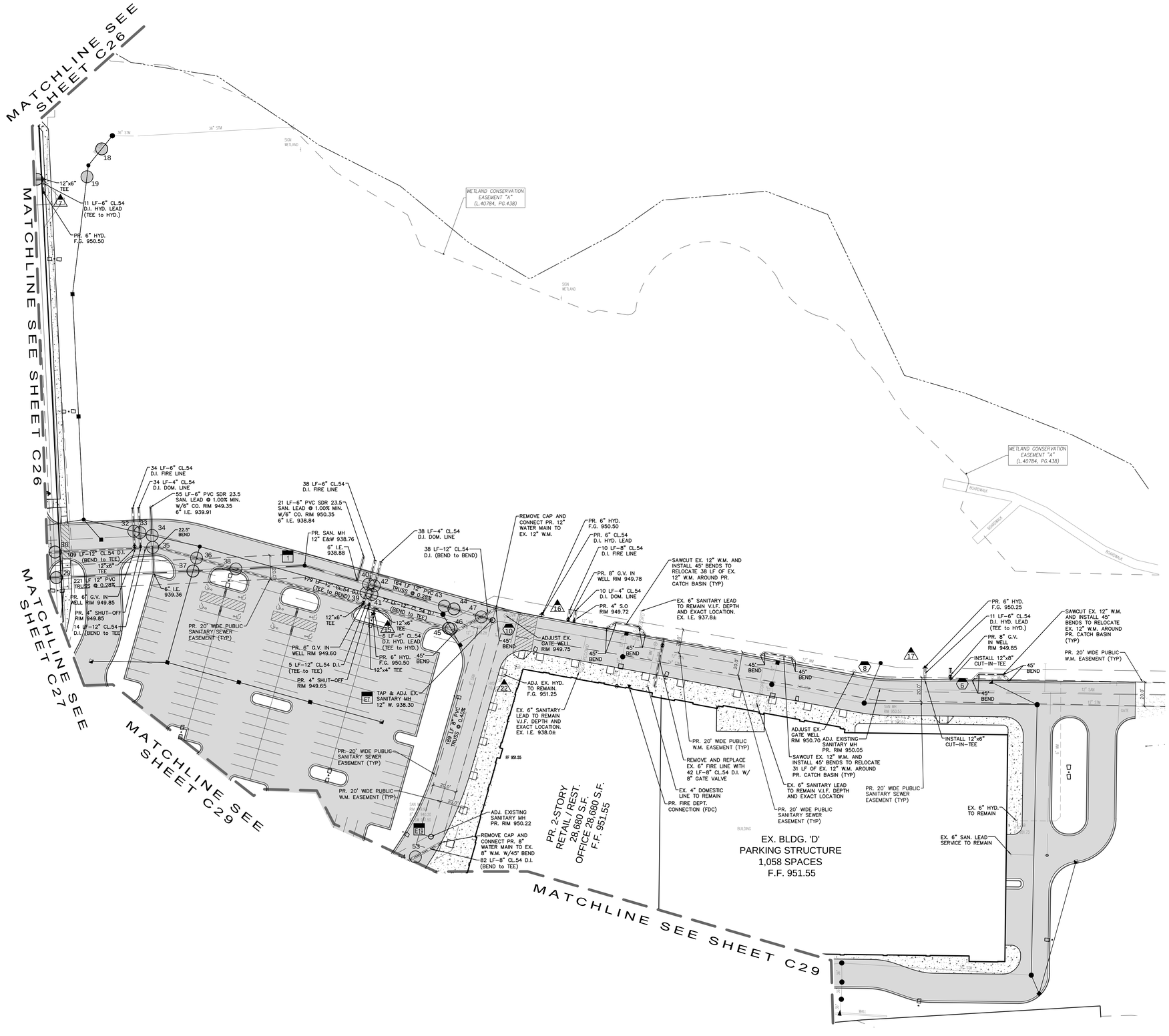

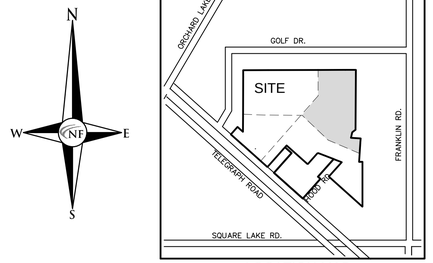

LOCATION MAP
N.T.S.

LEGEND

- EXISTING SANITARY SEWER (CLEAN-OUT, MANHOLE)
- EXISTING WATER MAIN (HYDRANT, GATE VALVE)
- EXISTING STORM SEWER (INLET, RYCB, MANHOLE, CB)
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- EXISTING OVERHEAD LINES (UTILITY POLE, GUY POLE, GUY WIRE)
- EXISTING LIGHT POLE, EXISTING SIGN
- PR. SANITARY SEWER (C.O., MANHOLE)
- PROPOSED WATER MAIN (HYDRANT, GATE VALVE)
- PROPOSED STORM SEWER (INLET, RYCB, MANHOLE, CB)
- PR. SAND BACKFILL (COMPACT TO 95% MAX. DENSITY)
- UTILITY CROSSING (A)
- PR. TOP OF CURB ELEVATION (TC 600.00)
- PROPOSED GUTTER ELEVATION (GU 600.00)
- PR. TOP OF WALK ELEVATION (TW 600.00)
- PR. TOP OF PAVEMENT ELEV. (TP 600.00)
- PROPOSED FINISH GRADE (FG 600.00)
- PROPOSED CONTOUR (600)
- PROPOSED SWALE
- PR. DRAINAGE DIRECTION
- PROPOSED INLET FILTER
- DRAINAGE AREA LIMITS
- PROPOSED SILT FENCE
- LIMITS OF SOIL DISRUPTION

ESTIMATED QUANTITIES

COMMERCIAL DEVELOPMENT ZONE

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
12" D.I. CLASS 54 WATER MAIN (PUBLIC)	491	L.F.
8" D.I. CLASS 54 WATER MAIN (PUBLIC)	10	L.F.
6" D.I. CLASS 54 WATER MAIN (PUBLIC)	31	L.F.
8" D.I. CLASS 54 WATER MAIN (PRIVATE)	52	L.F.
6" D.I. CLASS 54 WATER MAIN (PRIVATE)	72	L.F.
4" D.I. CLASS 54 WATER MAIN (PRIVATE)	82	L.F.
6" HYDRANT ASSEMBLY	5	EA.
8" GATE VALVE & WELL	1	EA.

SANITARY SEWER

DESCRIPTION	QUANTITY	UNITS
12" PVC TRUSS SEWER PIPE	385	L.F.
6" PVC SDR 23.5 SEWER PIPE	88	L.F.
4' DIA. SANITARY MANHOLE	1	EA.
TAP/CONNECTION	1	EA.

GATE VALVE SCHEDULE

- (6) 8" GATE VALVE IN WELL RIM 949.85
- (10) ADJUST EX. GATE VALVE RIM 949.75
- (8) ADJUST EX. GATE VALVE RIM 950.70

HYDRANT SCHEDULE

- (7) 6" STANDARD FIRE HYDRANT F.G. 950.50
- (22) ADJUST EX. FIRE HYDRANT F.G. 951.25
- (15) ADJUST EX. FIRE HYDRANT F.G. 949.50
- (17) 6" STANDARD FIRE HYDRANT F.G. 950.25
- (16) 6" STANDARD FIRE HYDRANT F.G. 950.50

SANITARY SCHEDULE

SEE SANITARY PROFILE SHEET C-44 FOR SANITARY SEWER STRUCTURE SCHEDULES

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

SEAL

STATE OF MICHIGAN — PATRICK J. WILLIAMS — ENGINEER NO. — LICENSED PROFESSIONAL ENGINEER

PROJECT
Village at Bloomfield

CLIENT
REDICO
One Towne Square,
Suite 1600
Southfield, MI 48076

Contact:
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Phone: (248) 784-6486

PROJECT LOCATION
Part of the W. 1/2 of Section 5, T. 2N., R. 10E., and part of the NE 1/4 of Section 6, T. 2N., R. 10E., Bloomfield Township, The City of Pontiac and Bloomfield Township (conditionally transferred to The City of Pontiac) Oakland County, Michigan

SHEET
Sanitary Sewer & Water Main Plan

Know what's below Call before you dig.

DATE	ISSUED / REVISED
05-12-17	Bids / Permits

DRAWN BY:
A. Wiseman
DESIGNED BY:
A. Wiseman
APPROVED BY:
P. Williams
DATE:
April 3, 2017
SCALE: 1" = 40'

40 20 0 20 40 60

NFE JOB NO. **A116-21**
SHEET NO. **C-28**