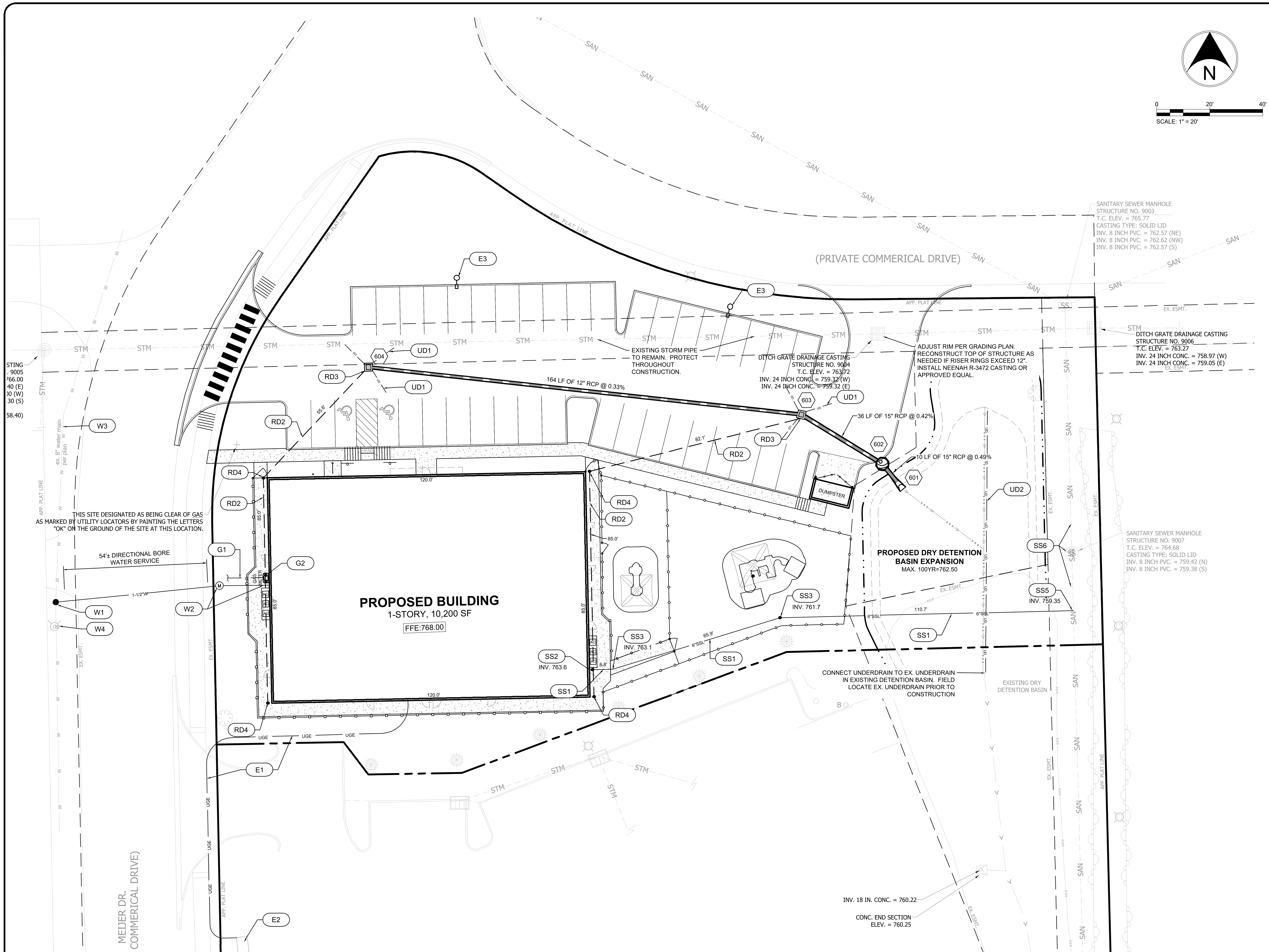

KEY NOTES: (XX)

E1	ELECTRIC - SECONDARY POWER FROM EXISTING TRANSFORMER, COORDINATE NEW SERVICE LINE CONDUIT AND CABLE SIZES WITH M.E.P. PLANS AND POWER UTILITY COMPANY.
E2	ELECTRIC - EXISTING TRANSFORMER. COORDINATE POWER DISTRIBUTION TO SITE WITH M.E.P., SITE ELECTRICAL PLAN AND POWER COMPANY.
E3	ELECTRIC - SITE LIGHTING POLE. REF. SITE LIGHTING PLAN. COORDINATE POWER DISTRIBUTION ONSITE WITH M.E.P. / SITE ELECTRICAL PLAN.
G1	GAS - GAS SERVICE LINE, COORDINATE SIZE & LOCATION WITH M.E.P. PLANS AND GAS COMPANY.
G2	GAS - GAS METER, COORD WITH M.E.P. PLANS & GAS COMPANY.
SS1	SANITARY - 6 INCH DIAMETER SDR 26 PVC LATERAL @ 2.08% MINIMUM. LATERAL INSTALLATION SHALL INCLUDE FULL DEPTH GRANULAR BACKFILL WHERE LOCATED UNDER PAVED AREAS AND SHALL HAVE TRACER WIRE INSTALLED FROM THE BUILDING CLEANOUT TO THE MAIN CONNECTION IN ACCORDANCE WITH PLAINFIELD PUBLIC WORKS SANITARY STANDARDS.
SS2	SANITARY - BUILDING CLEANOUT PER PLAINFIELD PUBLIC WORKS SANITARY STANDARDS, SEE PLAN FOR INVERTS. CLEANOUT SHALL BE LOCATED WITHIN 36 INCHES OF BUILDING FACE.
SS3	SANITARY - CLEANOUT PER PLAINFIELD PUBLIC WORKS SANITARY STANDARDS. SEE PLAN FOR INVERTS. CASTING TYPES AND COLLARS AS REQUIRED PER GRADE TYPE AND PER PLAINFIELD PUBLIC WORKS SANITARY STANDARDS.
SS4	SANITARY - LATERAL BENDS AS REQUIRED PER PLAINFIELD PUBLIC WORKS SANITARY STANDARDS. SEE PLANS FOR BEND ANGLE.
SS5	SANITARY - CONNECT LATERAL TO PROPOSED SANITARY MAIN WITH MANUFACTURED WYE PER PLAINFIELD PUBLIC WORKS SANITARY STANDARDS. CONTRACTOR SHALL COORDINATE LATERAL CONNECTION LOCATION AND INVERT WITH PLAINFIELD PUBLIC WORKS PRIOR TO CONSTRUCTION.
SS6	SANITARY - EXISTING SANITARY SEWER STRUCTURES, MAIN, AND LATERAL TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
6XX	STORM - PROPOSED STRUCTURE, REFERENCE STORM STRUCTURE TABLE (6XX)
RD1	ROOF DRAINS - BUILDING CONNECTION AND CLEANOUT. REFERENCE M.E.P. PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DOWNSPOUT. CLEANOUT TO BE LOCATED APPROX. ## FEET FROM THE BUILDING. SEE ROOF DRAIN / DOWNSPOUT DETAILS FOR FURTHER INFORMATION. ROOF DRAINS - BUILDING CONNECTION WITH DOWNSPOUT SHOW WITH BUILT IN CLEANOUT. APPROVED MANUFACTURER AND TYPE, NEENAH R-4929 WITH BRASS CLEANOUT (OR APPROVED OTHER). REFERENCE M.E.P. PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DOWNSPOUTS. SEE ROOF DRAIN / DOWNSPOUT DETAILS FOR FURTHER INFORMATION.
RD1	ROOF DRAIN - APPROXIMATELY ## LINEAR FEET OF ROOF DRAIN PIPING WITH DOWNSPOUT BOOT CONNECTION. ROOF DRAIN SHALL BE HDPE AND MATCH DOWNSPOUT DIMENSIONS (6 INCH MIN. DIAMETER).
RD2	ROOF DRAINS - 8 INCH DIAMETER HDPE N-12 ROOF DRAIN COLLECTOR PIPE AT 1.00% MINIMUM SLOPE. SEE PLANS FOR LENGTH. CONNECT TO DOWNSTREAM DRAINAGE STRUCTURE AS ILLUSTRATED.
RD3	ROOF DRAIN - CONNECTION TO STORM SEWER STRUCTURE (INVERT OF ROOF DRAIN CONNECTION SHALL BE 6 INCHES MINIMUM ABOVE INVERT OF STRUCTURE'S OUTLET PIPE).
RD4	ROOFDRAIN - ROOFDRAIN CLEANOUT ON ENDS OF COLLECTOR PIPE.
UD1	UNDERDRAIN - 10 LINEAR FEET OF 6 INCH DIAMETER PERFORATED HDPE UNDERDRAIN AT 1.00% MINIMUM SLOPE TOWARDS INLET. UNDERDRAINS TO CONNECT INTO STORM STRUCTURE AT LEAST 6 INCHES ABOVE THE OUTLET PIPE INVERT.
UD2	UNDERDRAIN - 6" PERFORATED HDPE UNDERDRAIN AT 1.0% MINIMUM SLOPE ALONG POND BOTTOM PER TOWN OF PLAINFIELD STANDARD DETAILS FOR SWALE/POND BOTTOM
W1	WATER - PROPOSED 1.5 INCH TAP, CORP STOP, VALVE & BOX ON EXISTING 12 INCH WATER MAIN. COORDINATE TAP WITH PLAINFIELD PUBLIC WORKS (WATER COMPANY).
W2	WATER - PROPOSED 1.5 INCH DIAMETER DR9 POLY PIPE FOR DOMESTIC WATER SERVICE LINE AND 1" INCH METER AND PIT PER PLAINFIELD PUBLIC WORKS STANDARD DETAILS.
W3	WATER - EXISTING WATER MAIN TO REMAIN. FIELD LOCATE EXACT LOCATION PRIOR TO CONSTRUCTION. PROTECT THROUGHOUT CONSTRUCTION.
W4	WATER - EXISTING FIRE HYDRANT TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
UX	UTILITY CROSSING, APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.
UX	CONCRETE CRADLE REQUIRED FOR UTILITY CROSSING.

NOTES:

1. UTILITY CROSSINGS UNDER EXISTING PAVEMENT SHALL BE DIRECTIONAL BORED OR JACK & BORED. OPEN CUTS SHALL BE AVOIDED.
2. ALL NEW STORM STRUCTURES WITH OPEN GRATES WITHIN PAVED AREAS SHALL HAVE CONCRETE COLLARS. REFERENCE DETAILS.
3. ALL PROPOSED END SECTIONS SHALL HAVE TOE ANCHORS AND ANIMAL GUARDS INSTALLED.
4. CONTRACTOR TO VERIFY ROOF DRAIN / DOWNSPOUT LOCATIONS PER ARCH. / M.E.P. PLANS AND ADJUST ROOFDRAIN CONNECTIONS AND HEADER / COLLECTOR PIPES ACCORDINGLY. ALL ROOF DRAINS TO BE CAPTURED AND DRAIN INTO THE PROPOSED STORM SEWER SYSTEM AND ROUTED THROUGH WATER QUALITY UNIT / DETENTION FACILITY.
5. SANITARY LATERALS SHALL MAINTAIN 4 FEET OF COVER.
6. WHERE SANITARY SEWER / LATERAL RUNS UNDER OR WITHIN 5 FEET OF HARDSCAPES (PAVEMENT SURFACES), SEWER PIPING MUST BE BACKFILLED WITH GRANULAR MATERIAL. SEE CORRESPONDING SANITARY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS.
7. TEN (10) GAUGE TRACER WIRE PLACED ON TOP OF SEWER PIPING OR LATERALS FROM THE BUILDING CLEANOUT TO TO THE DOWNSTREAM CONNECTION POINT REQUIRED FOR ENTIRE LENGTH OF SEWER PIPING / LATERALS. SEE DETAILS.
8. SEE SANITARY, STORM AND UTILITY NOTES FOR ADDITIONAL INFORMATION.
9. SEE STORM AND SANITARY SEWER STRUCTURE AND PIPE TABLES FOR SEWER STRUCTURE INFORMATION, INVERTS, RIM / CASTING ELEVATIONS, AND PIPE MATERIALS, SIZES AND LENGTHS.
10. ALL WATERLINES SHALL MAINTAIN A MINIMUM OF 54 INCHES OF COVER.
11. CONTRACTOR TO COORDINATE ALL WATERLINE CONNECTIONS, PIPE TYPE AND DIAMETERS, APPURTENANCES, ETC. WITH M.E.P. / ARCHITECTURAL PLANS, GOVERNING WATER UTILITY COMPANY, AND LOCAL FIRE DEPARTMENT (REGARDING FIRE WATERLINES AND APPURTENANCES).
12. SANITARY SEWERS AND / OR LATERALS, ALL WATERLINES, AND STORM SEWERS (INCLUDING UNDERDRAINS) SHALL MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION AND 18 INCHES MINIMUM VERTICAL SEPARATION BETWEEN EACH OTHER AS MEASURED FROM EXTERIOR PIPE WALLS.

STORM STRUCTURE DATA TABLE

STRUCTURE I.D.	RIM ELEVATION	NEENAH CASTING DESIGNATION	INFLOW INV, SIZE, (DIRECTION), [UP STR.]	OUTFLOW INV, SIZE, (DIRECTION), [DOWN STR.]	DESCRIPTION & NOTES
604	766.78	R-3472	INV:763.00 6" HDPE (SW)[]	INV:762.95 12" RCP (E)[603]	TYPE 'A' CATCH BASIN
603	765.85	R-3472	INV:762.40 12" RCP (W)[604] INV:763.00 6" HDPE (SW)[]	INV:762.30 15" RCP (SE)[602]	TYPE 'A' CATCH BASIN
602	766.00	R-1772	INV:762.15 15" RCP (NW)[603]	INV:762.05 15" RCP (SE)[601]	AQUASWIRL XC-4
601	763.94	???	INV:762.00 15" RCP (NW)[602]		15 " End Section

STORM SEWER PIPE DATA TABLE

UPSTREAM STRUCTURE I.D.	DOWNSTREAM STRUCTURE I.D.	LENGTH OF PIPE	PIPE SIZE / TYPE	SLOPE %	UPSTREAM PIPE INV.	DOWNSTREAM PIPE INV.
604	603	164 LF	12" RCP	0.33%	762.95	762.40
603	602	36 LF	15" RCP	0.42%	762.30	762.15
602	601	10 LF	15" RCP	0.49%	762.05	762.00

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

ASHTON FRITZ — STATE OF INDIANA — PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

PROJECT:

KID CITY PLAINFIELD

PROJECT LOCATION:
147 MEIJER DR.
TOWN OF PLAINFIELD, INDIANA 46168
HENDRICKS COUNTY

SECTION, TOWNSHIP, RANGE:
SE $\frac{1}{4}$, S26, T15N, R1E

CLIENT:
metaCRE
841 E. 64TH ST. STE. 201
INDIANAPOLIS, INDIANA 46220

PLAN DATE: 1/11/2024
DESIGN: AF | CHECK: AF | DRAWN: AF
PROJECT NO. 2310004
SHEET NAME: **UTILITY & DRAINAGE PLAN**
SHEET NO. **C401**

© 2024 FRITZ ENGINEERING SERVICES, LLC

PRINTED BY: Ashton Fritz
DATE: 1/11/2024 3:40 PM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2310004 - PLAINFIELD DAYCARE\03 CIVIL\PLANS\C401.DWG, LAYOUT: C401 UTILITY & DRAINAGE PLAN