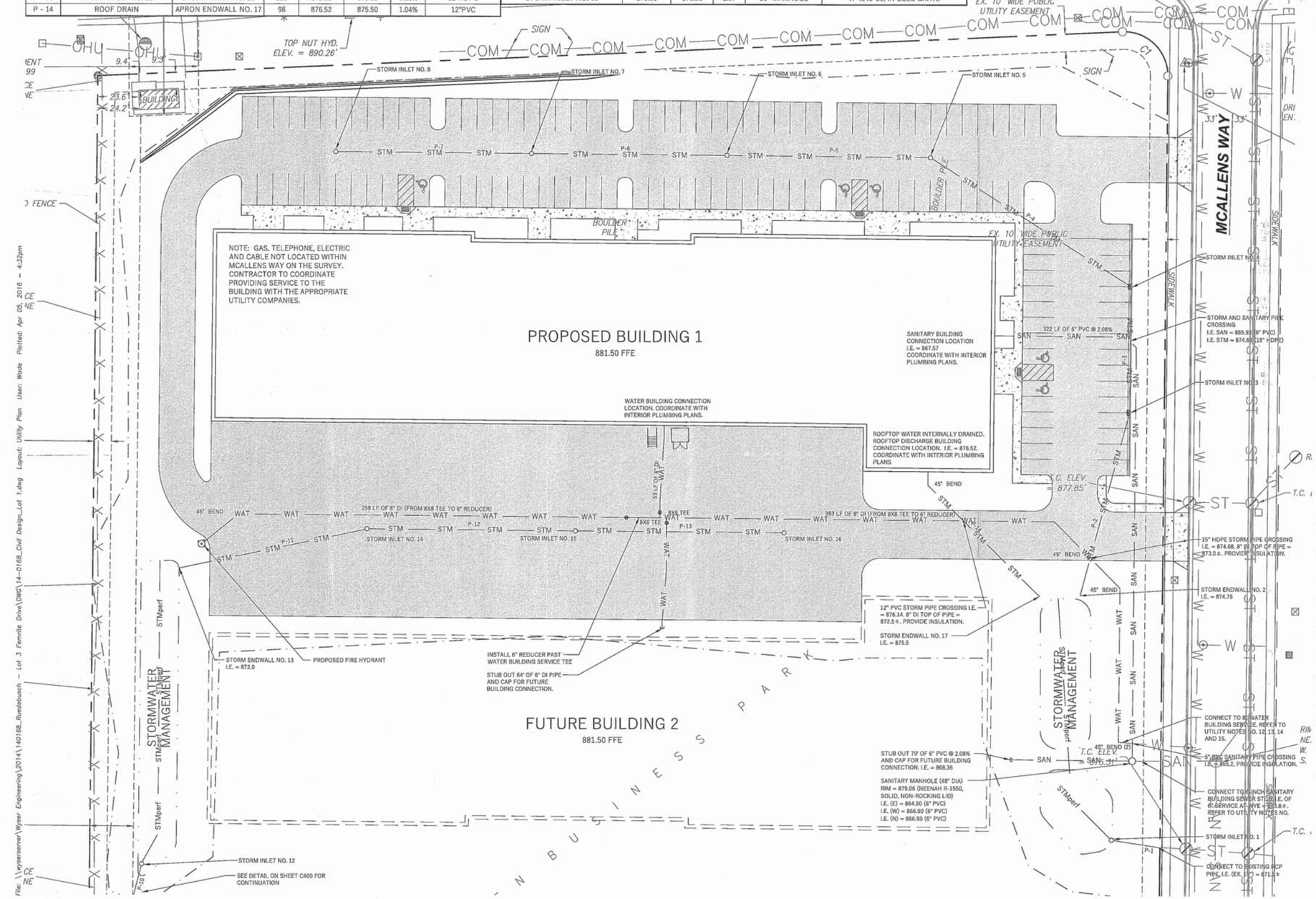
PROPOSED STORM SEWER PIPE SCHEDULE

PIPE LABEL	FROM	TO	LENGTH (FT)	INVERT ELEV. (FT)	DISCHARGE ELEV. (FT)	SLOPE (%)	PIPE SIZE & TYPE
P - 1	STORM INLET NO. 1	EX. STM PIPE	27	870.24	870.10	0.50%	15"RCP
P - 2	STORM INLET NO. 3	APRON EDNWALL NO. 2	111	875.14	874.75	0.35%	15"HDPE
P - 3	STORM INLET NO. 4	STORM INLET NO. 3	72	875.49	875.24	0.35%	15"HDPE
P - 4	STORM INLET NO. 5	STORM INLET NO. 4	137	876.43	875.74	0.50%	12"HDPE
P - 5	STORM INLET NO. 6	STORM INLET NO. 5	117	876.82	876.53	0.25%	12"HDPE
P - 6	STORM INLET NO. 7	STORM INLET NO. 6	113	877.20	876.92	0.25%	12"HDPE
P - 7	STORM INLET NO. 8	STORM INLET NO. 7	113	877.58	877.30	0.25%	12"HDPE
P - 8	STORM MANHOLE NO. 10	APRON ENDWALL NO. 9	28	866.14	866.00	0.50%	18"HDPE
P - 9	STORM MANHOLE NO. 11	STORM MANHOLE NO. 10	319	867.84	866.24	0.50%	18"HDPE
P - 10	STORM INLET NO. 12	STORM MANHOLE NO. 11	83	868.35	867.94	0.50%	18"HDPE
P - 11	STORM INLET NO. 14	APRON ENDWALL NO. 13	111	872.37	872.00	0.33%	15"HDPE
P - 12	STORM INLET NO. 15	STORM INLET NO. 14	120	873.22	872.62	0.50%	12"HDPE
P - 13	STORM INLET NO. 16	STORM INLET NO. 15	120	873.62	873.32	0.25%	12"HDPE
P - 14	ROOF DRAIN	APRON ENDWALL NO. 17	98	876.52	875.50	1.04%	12"PVC

PROPOSED STORM SEWER STRUCTURES SCHEDULE

LABEL	INVERT ELEV. (FT)	RIM ELEV. (FT)	DEPTH (FT)	STRUCTURE DESCRIPTION	GRATE
STORM INLET NO. 1	870.24	874.50	4.26	30" MANHOLE	R-4040-30, IN BELL GRATE
STORM INLET NO. 3	875.14	879.65	4.51	2'X3' BOX	R-3065, TYPE R GRATE
STORM INLET NO. 4	875.49	879.65	4.16	2'X3' BOX	R-3065, TYPE R GRATE
STORM INLET NO. 5	876.43	879.95	3.52	30" MANHOLE	R-4030-30, IN BELL GRATE
STORM INLET NO. 6	876.82	879.96	3.14	30" MANHOLE	R-4030-30, IN BELL GRATE
STORM INLET NO. 7	877.20	880.01	2.81	30" MANHOLE	R-4030-30, IN BELL GRATE
STORM INLET NO. 8	877.58	879.96	2.38	30" MANHOLE	R-4030-30, IN BELL GRATE
STORM MANHOLE NO. 10	866.14	871.00	4.86	48" MANHOLE	R-2578, TYPE C GRATE
STORM MANHOLE NO. 11	867.84	872.10	4.26	48" MANHOLE	R-2578, TYPE C GRATE
STORM INLET NO. 12	868.35	871.50	3.15	48" MANHOLE	R-2578, TYPE C GRATE
STORM INLET NO. 14	872.36	876.28	3.92	48" MANHOLE	R-2578, TYPE C GRATE
STORM INLET NO. 15	873.21	876.28	3.07	30" MANHOLE	R-4040-30, IN BELL GRATE
STORM INLET NO. 16	873.61	876.28	2.67	30" MANHOLE	R-4040-30, IN BELL GRATE



LEGEND (PROPOSED)

- PROPOSED PROPERTY BOUNDARY
- EASEMENT
- BUILDING FOOTPRINT
- 18" CURB AND GUTTER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- WAT — PROPOSED WATER MAIN
- SAN — PROPOSED SANITARY SEWER
- STM — PROPOSED STORM SEWER
- GAS — PROPOSED GAS SERVICE (DESIGN BY OTHERS)
- E — PROPOSED ELECTRIC SERVICE (DESIGN BY OTHERS)
- STORMWATER TREATMENT FACILITY

NORTH

GENERAL NOTES

1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS PROVIDED TO WYSER ENGINEERING. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

UTILITY NOTES

1. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
2. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS, AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WISDSPS, AND WDNR.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
   - EXAMINING ALL SITES CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
   - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
   - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
   - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
   - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
7. ANY SANITARY SEWER , SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. NO BLASTING IS ALLOWED WITHIN 30 FEET OF EXISTING UTILITIES.
8. ALL PRIVATE INTERCEPTOR WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6' MINIMUM BURY. PROVIDE INSULATION ABOVE PIPES WITH LESS THAN 5' OF GROUND COVER.
9. GRANULAR BACKFILL MATERIALS ARE REQUIRED IN ALL UTILITY TRENCHES UNDER SIDEWALKS AND PROPOSED PAVED AREAS (UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER). ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS.
10. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED PER CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. PRE-CONSTRUCTION MEETING WTIH THE CITY OF MADISON IS REQUIRED PRIOR TO INSTALLATION.
11. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE. REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PART VII.
12. ALL WATER MAIN AND ASSOCIATED FITTINGS SHALL MEET THE REQUIREMENTS OUTLINED WITHIN ARTICLE 702 WITHIN THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
13. DEWATERTING, IF APPLICABLE, SHALL BE CONDUCTED PER WDNR STORM WATER MANAGEMENT TECHNICAL STANDARD 1061.
14. CONNECT PIPE PER SECTION 503.3 OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. CONTACT THE CITY OF MADISON PUBLIC WORKS DEPARTMENT IN ADVANCE OF CONNECTION TO ARRANGE A PRE-CONSTRUCTION MEETING.
15. ALL NON-METALLIC BUILDING SEWER AND WATER SERVICES MUST BE ACCOMPANIED BY MEANS OF LOCATING UNDERGROUND PIPE. TRACER WIRE VALVE BOXES SHALL BE INSTALLED ON ALL LATERALS AND AS INDICATED ON THESE PLANS.
16. ALL, EXTERIOR CLEANOUTS SHALL BE PROVIDED WITH A FROST SLEEVE IN ACCORDANCE WITH SPS 382.34(5)(a)b AND SPS 384.30(2)(c).
17. ALL PRIVATE SANITARY BUILDING SEWER PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
18. ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-6.
19. ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-7.
20. ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 384.40-8 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6" OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
21. THE CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR THE CONSTRUCTION OF GAS MAINS WHEN SCHEDULING THE WORK AND SHALL NOT RESTRICT ACCESS TO THE GAS MAIN CONTRACTOR OR OTHER UTILITY COMPANIES.
22. CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTIONS WITH THE BUILDING PRIOR TO CONSTRUCTION.

DIGGERS HOTLINE
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WYSER ENGINEERING

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3402 McALLENS WAY
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McALLEN 120 BUSINESS PARK
BUILDING 1

CITY OF MADISON, DANE COUNTY, WI

Sheet Title: UTILITY PLAN

Revisions:

No.	Date:	Description:

Graphic Scale 0' 15' 30' 45'

Wyser Number 14-0168

Set Type PERMIT

Date Issued 04/05/2016

Sheet Number C300

File: \\wyserserver\Wyser Engineering\2014\14-0168_Ruedebusch - Lot 3 Femrite Drive\DWG\14-0168_Civil Design_Lot 1.dwg Layout: Utility Plan User: Wade Plotted: Apr 05, 2016 - 4:32pm