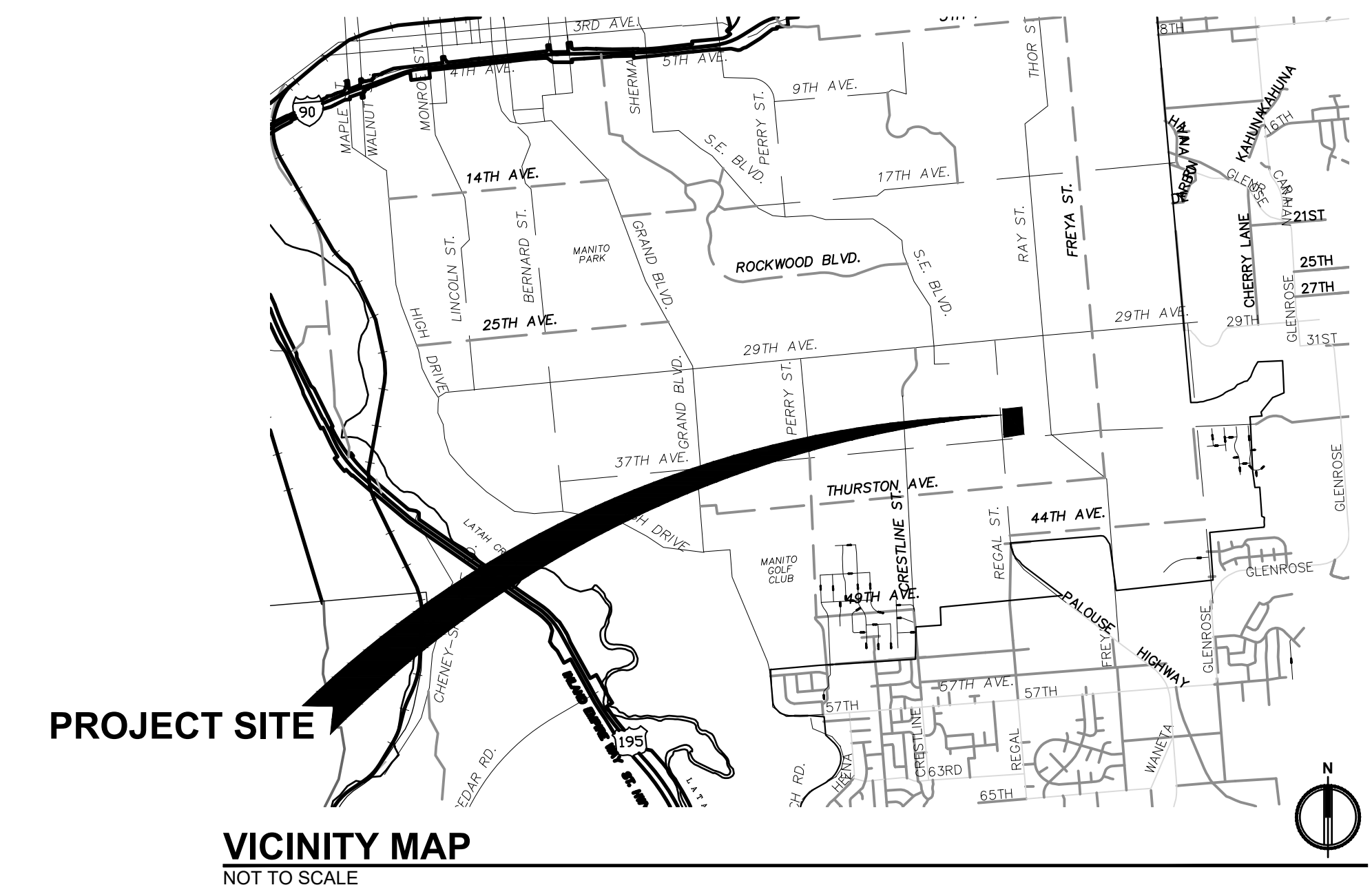
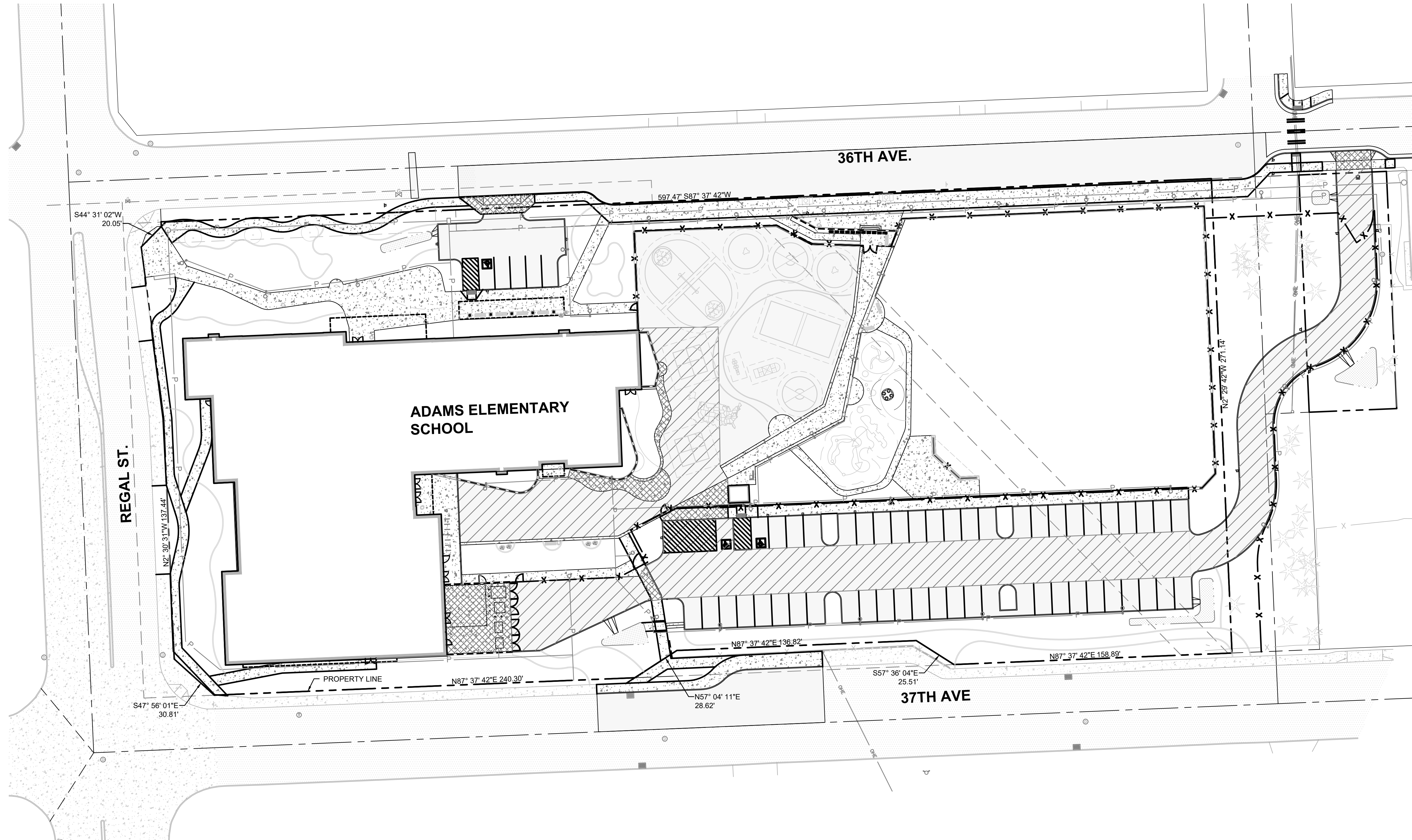


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SPOKANE, WASHINGTON



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DATE: 11/10/23

COVER & INDEX

CD
C001

OWNER

SPOKANE PUBLIC SCHOOLS
2815 EAST GARLAND AVENUE
SPOKANE, WA 99207
CONTACT: JOHN ELDER
PH: (509) 354-3772

CIVIL ENGINEER

AHBL INC
601 W MAIN AVE, SUITE 305
SPOKANE, WA 99201
CONTACT: ERICK FITZPATRICK, PE
PH: (509) 252-5019

ARCHITECT

NAC ARCHITECTURE
1203 W. RIVERSIDE AVE
SPOKANE, WA 99201
CONTACT: BROOKE HANLEY, AIA
PH: (509) 838-8240

GEOTECHNICAL ENGINEER

STRATA, INC.
10023 E. KNOX AVENUE, SUITE 200
SPOKANE, WA 99206
CONTACT: VANCE M. SMITH
PH: (509) 851-1904

PARCEL NO.

35342.0001, 35342.2901, 35342.3022

SURVEYOR

SANDIS SPOKANE LAND SURVEYORS
708 N. ARGONNE RD. STE. 5
SPOKANE VALLEY, WA 99212
CONTACT: KELLY JOHNSON, PLS
PH: (509) 408-0866

UTILITIES

WATER: CITY OF SPOKANE
SEWER: CITY OF SPOKANE
TELEPHONE: CENTURYLINK
POWER: AVISTA
GAS: AVISTA
ONE CALL: 811
REFUSE: CITY OF SPOKANE WASTE MANAGEMENT

BASIS OF BEARING

NAD 1983/11
WASHINGTON STATE PLANE NORTH PROJECTION, BASED
ON GPS OBSERVATIONS USING WSRN AND GEOID 2012A.
UNITS OF MEASUREMENT ARE US SURVEY FEET.

CONTACT TO ENGINEERS FOR BENCHMARK
INFORMATION.

VERTICAL DATUM

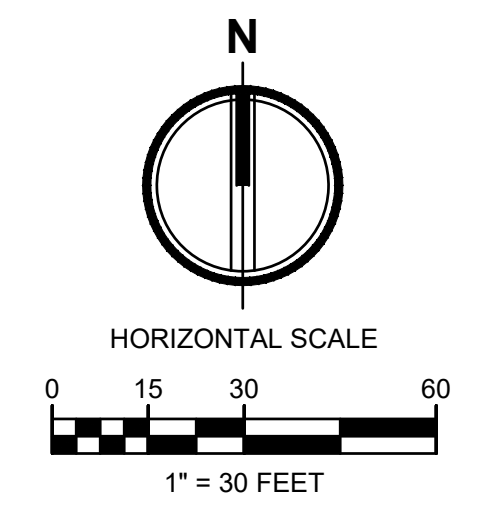
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS
OBSERVED FROM THE WASHINGTON STATE REFERENCE
NETWORK USING GNSS RTK MEASUREMENTS

SITE ADDRESS

2909 EAST 37TH AVE
SPOKANE, WA 99223

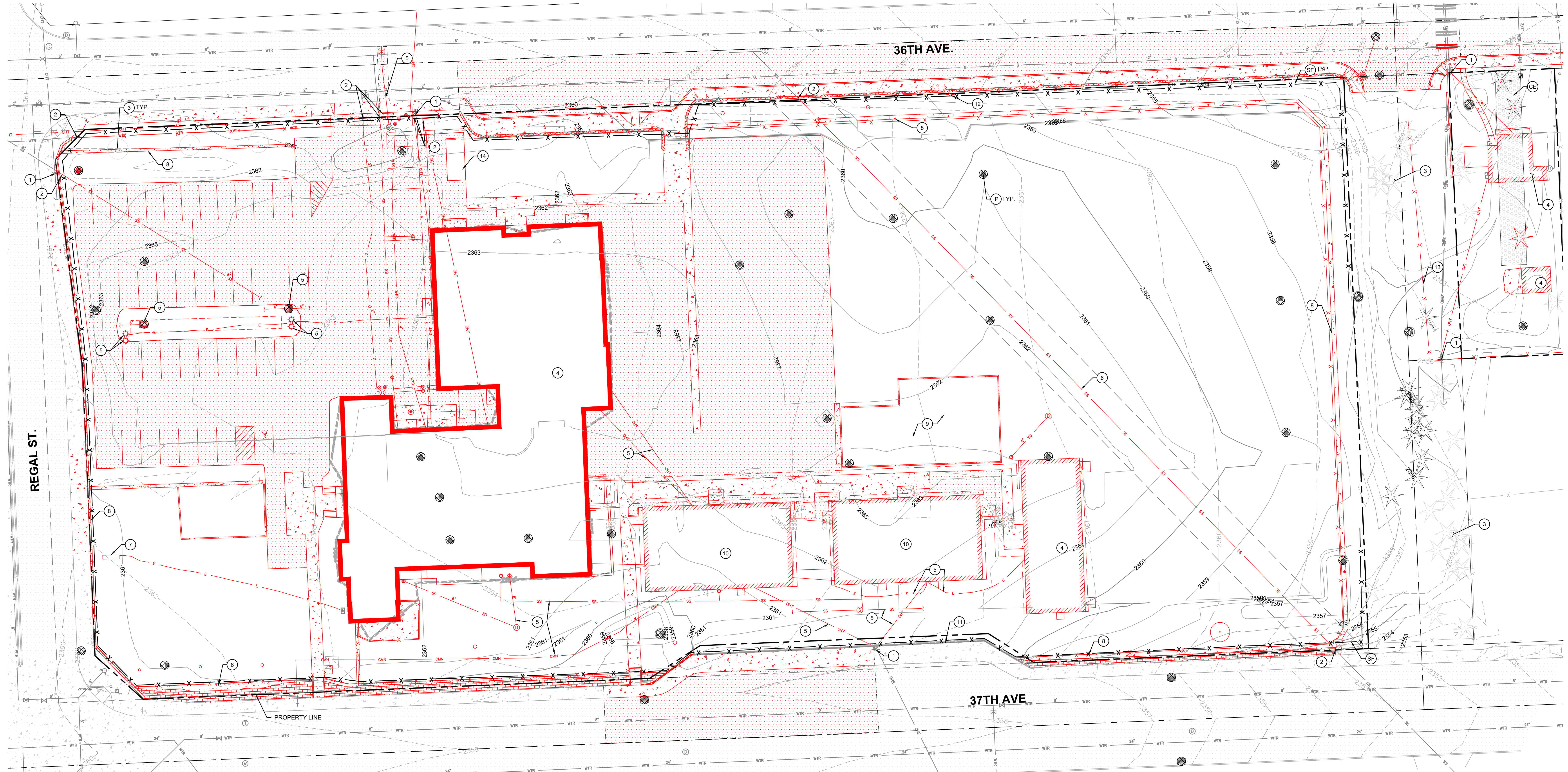
SHEET INDEX

SHEET NUMBER	SHEET TITLE
C001	COVER & INDEX
C002	GENERAL NOTES
C003	TOPOGRAPHIC SURVEY
C100	TESC & DEMOLITION PLAN
C101	TESC & DEMOLITION NOTES
C200	CIVIL SITE PLAN
C201	CIVIL FIRE SUMMARY
C202	CIVIL SITE DETAILS
C300	GRADING & DRAINAGE PLAN
C301	GRADING & DRAINAGE DETAILS
C400	UTILITY PLAN
C401	UTILITY DETAILS



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DEMOLITION NOTES

- CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE TO REVIEW SCOPE OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UTILITIES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETELY COORDINATE UTILITY DEMOLITION WITH NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ADEQUATE FIRE PROTECTION IN ACCORDANCE WITH THE FIRE MARSHAL'S REQUIREMENTS IS PROVIDED.
- DEMOLITION: IT IS THE INTENT OF THE WORK UNDER THIS CONTRACT TO INCLUDE THE DEMOLITION INDICATED BY THIS DRAWING AND AS REQUIRED FOR NEW CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY REVIEW THE SITE CONDITIONS AND TO CORRELATE THESE OBSERVATIONS WITH THE PROJECT WORK AND INCLUDE ALL NECESSARY DEMOLITION, WHETHER SHOWN OR NOT, AND INCLUDE ALL SUCH COSTS IN THE BASE BID.
- REFER TO ARCHITECTURE DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS.
- CLEARING: IT IS THE INTENT OF THE WORK UNDER THIS CONTRACT TO CONDUCT ALL CLEARING NECESSARY TO BE ABLE TO COMPLETE ALL THE WORK OF THIS PROJECT.
- CONTRACTOR SHALL LEGALLY DISPOSE OF THE OWNER'S PROPERTY. ALL DEMOLISHED AND REMOVED MATERIALS, UNLESS INDICATED OTHERWISE.
- COORDINATE POWER DEMOLITION WITH ELECTRICAL JURISDICTION AND ELECTRICAL PLANS. CONTRACTOR TO ENSURE THAT DEMOLITION OF LINES WILL NOT COMPROMISE POWER TO OTHER AREAS.
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE SWPPP AND CONSTRUCTION STORMWATER GENERAL PERMIT. THE MEASURES SHOWN ARE THE RECOMMENDED TESC METHODS. CONTRACTOR MAY IMPLEMENT THEIR OWN METHODS PROVIDED THEY MEET THE REQUIREMENTS OF THE SWPPP AND THE CSWGP.
- THE CLEARING LIMITS DEPICTED ON THESE PLANS REPRESENT THE EDGE OF CIVIL-RELATED WORK SUCH AS GRADING, UTILITY, STORM DRAINAGE, AND PAVING IMPROVEMENTS.
- CONTRACTOR SHALL COORDINATE ANY UTILITY SHUTDOWN WITH OWNER AT LEAST 1 WEEK PRIOR TO THE WORK BEING PERFORMED.
- CONTRACTOR TO NEATLY SAWCUT ALONG LINE OF EXISTING PAVEMENT THAT IS TO REMAIN BEFORE REMOVING PAVEMENT.
- TEST PIT LOCATIONS SHALL BE BACKFILLED AND COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ALL TREES TO REMAIN SHALL HAVE TREE PROTECTION FENCING INSTALLED PRIOR TO ANY SITE/DEMOLITION WORK.
- DEMOLITION WORK MAY OCCUR OUTSIDE OF PROJECT LIMITS.
- ASPHALT REMOVAL AND REPAIR TO CONFORM WITH JURISDICTION'S REGIONAL PAVEMENT CUT POLICY.
- REMOVAL OF STREET TREES REQUIRES A LICENSED, CERTIFIED ARBORIST WITH AN APPROVED TREE PERMIT. AT NO TIME SHALL EQUIPMENT BE USED TO DEMOLISH STREET TREES.
- APPURTENANCES ASSOCIATED WITH EXISTING UTILITIES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. ALL BACKFILL OF APPURTENANCES AND UTILITY TRENCHES SHOULD FOLLOW RECOMMENDATIONS OF THE GEOTECHNICAL REPORT DATED APRIL 21, 2023 BY STRATA.
- TREE GROVE SHOWN ON PLANS IS AN ESTIMATION OF SIZE AND LOCATION. CONTRACTOR TO FIELD VERIFY PRIOR TO DEMO.
- PER THE GEOTECHNICAL REPORT DATED APRIL 21, 2023 BY STRATA, UNDOCUMENTED FILL IS PRESENT ON SITE AND MUST BE REMOVED ENTIRELY. PER THE REPORT ALL FILL MUST BE PROPERLY DISCARDED AND REPLACED WITH STRUCTURAL FILL. UNDOCUMENTED FILL MAY BE USED AS STRUCTURAL FILL IF AND ONLY IF IT HAS BEEN TESTED AND PASSES ALL SPECIFICATION REQUIREMENTS.

DEMOLITION LEGEND

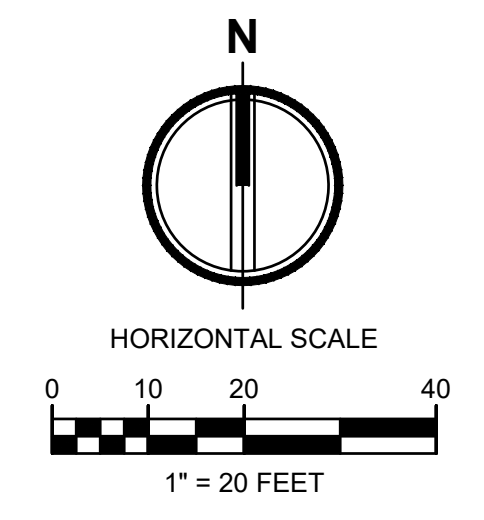
REMOVE	PROTECT
VEGETATION	VEGETATION
CONCRETE	CONCRETE
ASPHALT	ASPHALT
SAWCUT	SAWCUT
CURB	CURB

TESC LEGEND

CONSTRUCTION ENTRANCE	INLET PROTECTION
SILT FENCE	PROJECT CLEARING LIMITS

KEYNOTES

- PROTECT EXISTING UTILITIES IN PLACE.
- UTILITY TO BE REMOVED TO PROPERTY LINE AND CAPPED.
- TREES IN EXISTING GROVE IS ESTIMATED. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO DEMOLITION. SEE LANDSCAPE PLANS FOR DEMO AND PROTECTION DETAILS.
- BUILDING TO BE DEMOLISHED ENTIRELY. FOUNDATION AND ALL OTHER SUBSURFACE INFRASTRUCTURE TO BE REMOVED. UTILITIES TO BE DEMOLISHED AND CAPPED AT PROPERTY LINE.
- UTILITY TO BE REMOVED ENTIRELY
- EXISTING SEWER FORCE MAIN TO BE REMOVED WHERE FOUND; IF NO MAIN IS LOCATED THE MAIN SHOULD BE ABANDONED IN PLACE
- MONUMENT SIGN TO BE REMOVED
- WALL TO BE DEMOLISHED
- PLAYGROUND SO BE REMOVED AND SALVAGED FOR REINSTALLATION
- MOBILE CLASSROOM TO BE PROTECTED AND RELOCATED OFF SITE; CONTRACTOR TO COORDINATE WITH OWNER
- PROTECT EXISTING WALL IN PLACE
- POWER POLE TO BE REMOVED; POWER LINES TO BE RELOCATED UNDERGROUND
- EXISTING FENCE TO BE DEMOLISHED
- STORAGE CONTAINER TO BE PROTECTED AND RELOCATED OFF SITE; CONTRACTOR TO COORDINATE WITH OWNER



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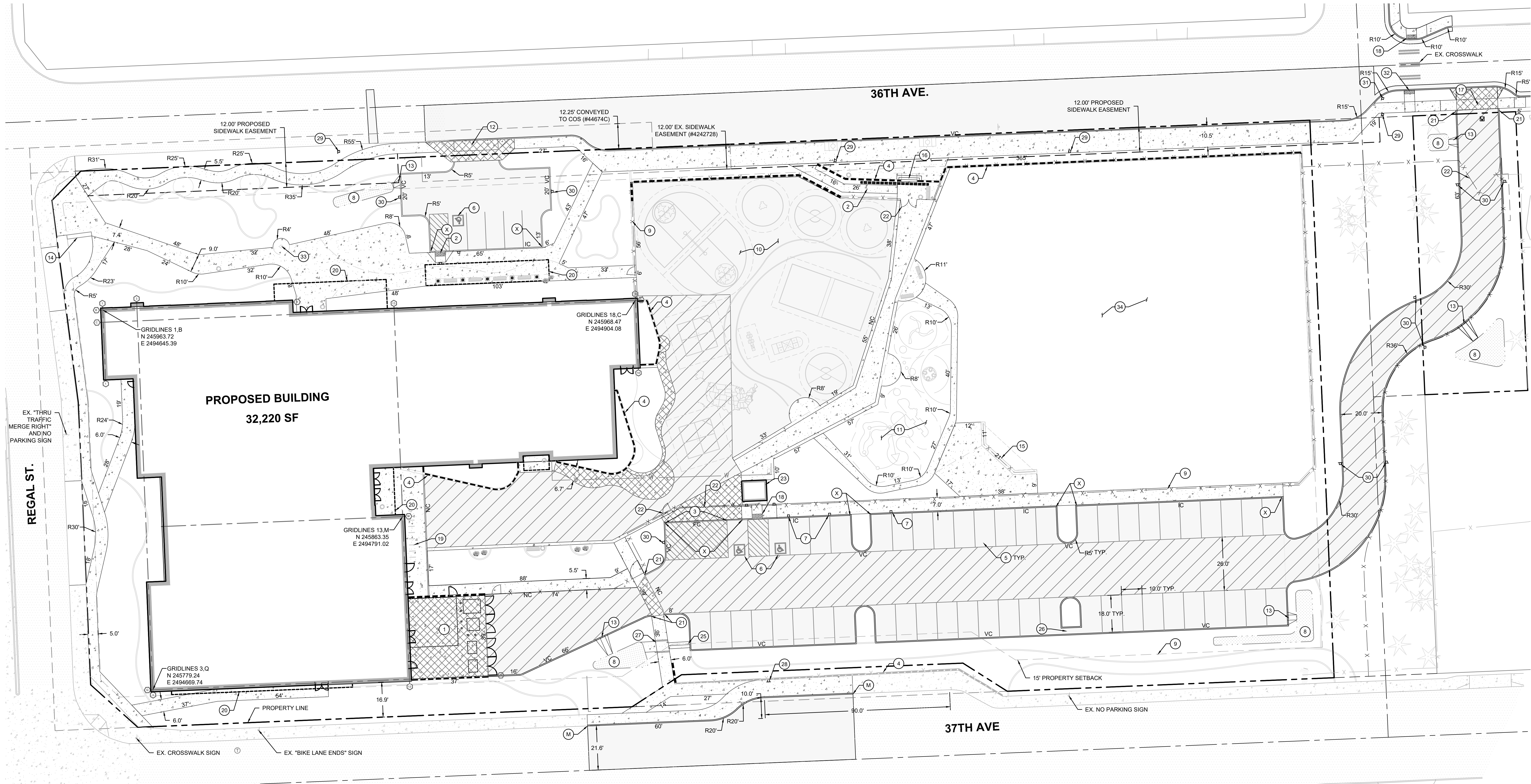
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TESC & DEMOLITION PLAN

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KEYNOTES

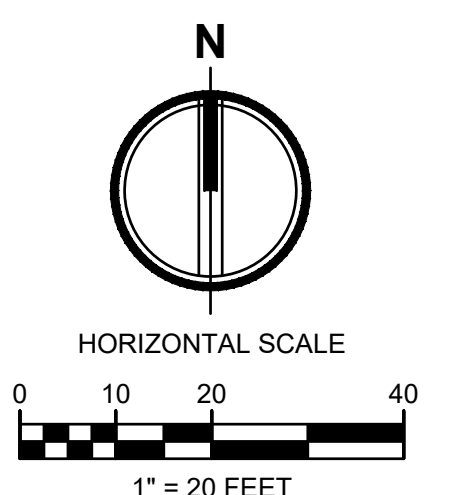
- | | |
|--|--|
| <ul style="list-style-type: none"> 1 MECHANICAL YARD; SEE ARCHITECTURAL PLAN FOR DETAILS 2 TYPE 1 CURB RAMP PER COS STD PLAN F-105 3 6" THICK RED PAVEMENT MARKING, IN WHITE PAINT, STENCIL "NO PARKING FIRE LANE" 4 SITE WALL; SEE LANDSCAPE PLAN FOR DETAILS 5 STANDARD PARKING STALL 6 VAN ACCESSIBLE BARRIER FREE PARKING STALL PER COS STD PLAN G-80A AND G-54 7 EV PARKING STATION; SEE ELECTRICAL PLANS FOR DETAILS 8 STORMWATER POND 9 CHAINLINK FENCE; SEE LANDSCAPE PLANS FOR DETAILS 10 HARD TOP PLAY AREA; SEE LANDSCAPE PLAN FOR DETAILS 11 SOFT TOP PLAY AREA; SEE LANDSCAPE PLAN FOR DETAILS 12 DRIVEWAY DROP PER COS STD PLAN F-103; W=20' 13 CURB INLET PER COS STD PLAN F-109 14 MONUMENT SIGN; SEE LANDSCAPE PLAN FOR DETAILS 15 BACKSTOP FENCING; SEE LANDSCAPE PLAN FOR DETAILS 16 (5) 7' STAIRS; SEE LANDSCAPE PLAN FOR DETAILS 17 DRIVEWAY DROP PER COS STD PLAN F-104A 18 TYPE 2 CURB RAMP PER COS STD PLAN F-105B 19 BIKE RACK; SEE LANDSCAPE PLAN FOR DETAILS | <ul style="list-style-type: none"> 20 ENTRANCE CANOPY; SEE ARCHITECTURAL AND STRUCTURAL PLAN FOR DETAILS 21 CURBNOSE DOWN 22 GATE WITH KNOX BOX; SEE LANDSCAPE PLAN FOR DETAILS 23 STORAGE SHED; SEE ARCHITECTURAL PLAN FOR DETAILS 24 SITE WALL; SEE C300 FOR VARYING HEIGHTS 25 3" CONCRETE "V" GUTTER PER COS STD PLAN F-106A 26 CUSTOM CURB AND GUTTER PASSTHROUGH 27 CURB INLET TYPE 2 PER SPOKANE COUNTY STD PLAN B-9 28 PROPOSED SIGN, "NO PARKING EXCEPT SCHOOL BUS 8AM-5PM" 29 PROPOSED SIGN, "NO PARKING LOADING ZONE" PER MUTCD R7-6 30 PROPOSED SIGN, "NO PARKING FIRE LANE" TYPE D PER IFC APPENDIX D103.6 31 PROPOSED CROSSWALK SIGN AND ARROW PER MUTCD S1-1 AND W16-79 32 TYPE 3 CURB RAMP PER COS STD PLAN F-105D 33 FLAGPOLE; SEE LANDSCAPE PLAN FOR DETAILS 34 GRASS PLAY; SEE LANDSCAPE PLANS FOR SOIL NOTES AND IRRIGATION |
|--|--|

SURFACING LEGEND

	CONCRETE SIDEWALK	VC VERTICAL CURB
	HEAVY DUTY CONCRETE	IC INTEGRAL CURB
	HMA PAVEMENT	NC NO CURB
	HEAVY DUTY HMA PAVEMENT	FC FLUSH CURB
		X CHANGE IN CURB TYPE
		M MATCH EXISTING CURB TYPE

SITE PLAN NOTES

1. REFER TO SHEET C002 FOR CIVIL STANDARD NOTES.
2. CONTACT SANDIS FOR TEMPORARY BENCH MARKS (TBM) SHOWN.
3. REFER TO LANDSCAPE AND ARCHITECTURAL PLANTING PLANS FOR ADDITIONAL HORIZONTAL CONTROL, SITE FURNISHINGS, CONCRETE SCORING, PLANTING SCHEDULE, AND RELATED DETAILS NOT SHOWN ON THIS PLAN.
4. ALL DIMENSIONS TO FACE OF CURB UNLESS NOTED OTHERWISE.
5. ALL SIGNS TO BE INSTALLED PER CITY OF SPOKANE STANDARD PLANS G-10, G-10A, & G-20A. CONTRACTOR HAS OPTION TO INSTALL SIGNS PER STANDARD PLAN G-10E.
6. ALL NEW SIDEWALKS AND CONNECTIONS TO EXISTING SIDEWALKS SHALL BE BARRIER FREE PATHWAYS (I.E. ADA COMPLIANT).
7. VERIFY LOCATION OF ALL STRIPING WITH OWNER PRIOR TO INSTALLING. ALL STRIPING SHALL BE YELLOW PAINT UNLESS NOTED OTHERWISE.
8. PAVEMENT PATCHING WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE CITY OF SPOKANE'S REGIONAL PAVEMENT CUT POLICY.
9. VERTICAL CURB SHALL BE PER COS STD PLAN F-106.
10. INTEGRAL CURB AND GUTTER SHALL BE EITHER "ADJACENT TO CURB" OR "MONOLITHIC CEMENT CONCRETE CURB AND SIDEWALK" PER WSDOT STD PLAN F-30-10-04 OR "INTEGRAL CONCRETE CURB & GUTTER" PER COS STD PLAN F-102A.
11. CURB & GUTTER SHALL BE PER COS STD PLAN F-106.
12. SEE ELECTRICAL PLANS FOR SITE LIGHTING DETAILS AND INFORMATION.
13. SITE IMPROVEMENTS SHALL COMPLY WITH RECOMMENDATIONS FROM APRIL 21, 2023 "GEOTECHNICAL EVALUATION REPORT" BY STRATA.
14. ALL SIDEWALKS, CURBS, AND DRIVEWAY APPROACHES ADJACENT TO THE PROPERTY WILL BE REVIEWED AT THE END OF THE PROJECT WHEN A CERTIFICATE OF OCCUPANCY IS REQUESTED. IF ANY ARE FOUND TO BE BROKEN, HEAVED, SUNK, OR MISSING, THEY MUST BE REPAIRED/REPLACED WHETHER THE DAMAGE WAS EXISTING OR CAUSED BY CONSTRUCTION. IF YOU WOULD LIKE A SIDEWALK INSPECTION PRIOR TO REQUESTING OCCUPANCY, PLEASE CONTACT THE CITY OF SPOKANE AT (509)825-6300 TO ARRANGE A SITE VISIT.
15. PROPOSED SIDEWALKS WITHIN THE RIGHT OF WAY OR PROPOSED SIDEWALK EASEMENT MUST ADHERE WITH COS STD PLAN F-102.
16. PATCHED PAVEMENTS TO MATCH EXISTING HMA SECTION OR HEAVY DUTY HMA SECTION, WHICHEVER IS THICKER.



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DESIGNED BY: KTM
 CHECKED BY: EMF
 DATE: 11/10/23

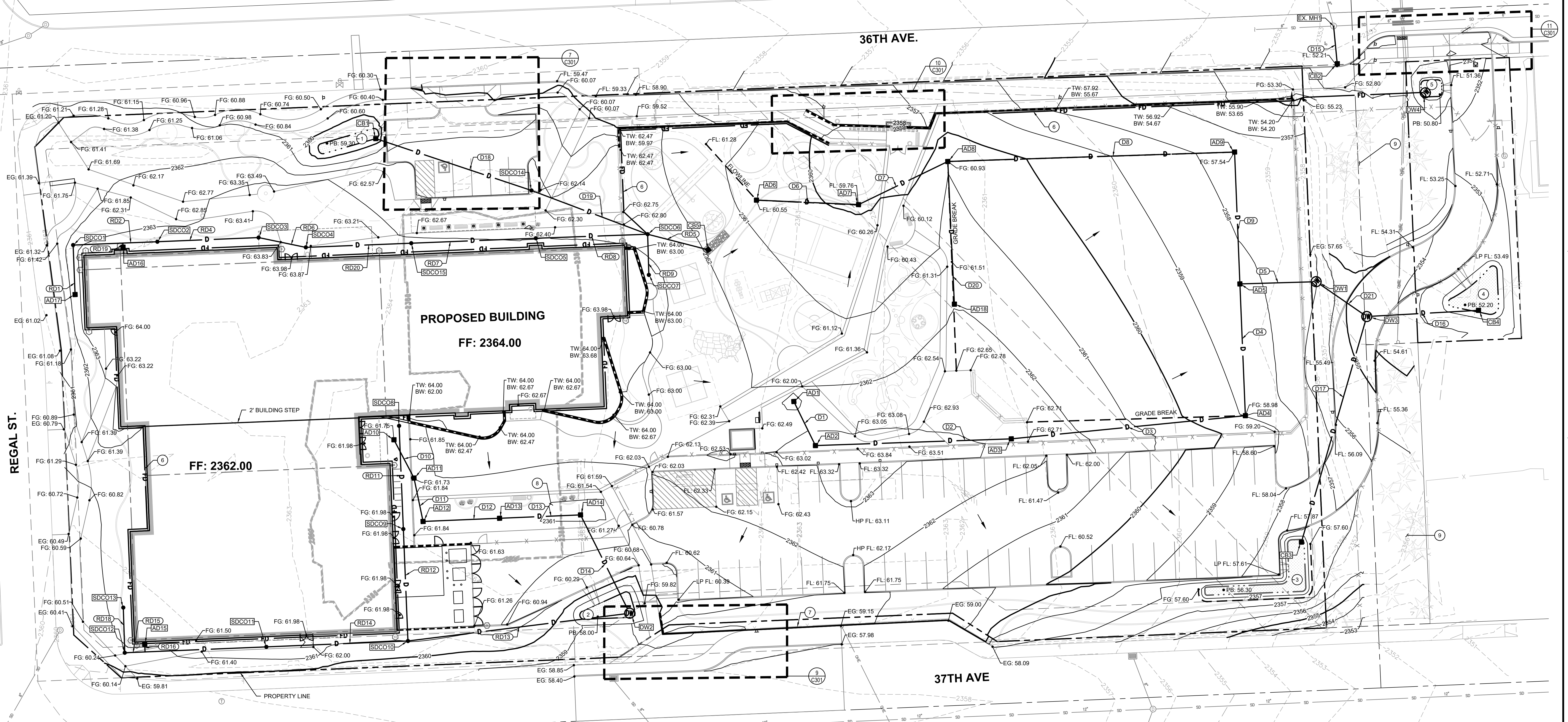
CIVIL
SITE
PLAN

CD
C200



Know what's below.
 Call before you dig.

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KEYNOTES

- 1 BIO-INFILTRATION POND #1
POND AREA: 1505F
DEPTH: 0.8'
POND ELEVATION: 2359.3'
- 2 BIO-RETENTION POND #2
POND AREA: 2205F
DEPTH: 2.0'
POND ELEVATION: 2358.0'
- 3 BIO-RETENTION POND #3
POND AREA: 3605F
DEPTH: 1.3'
POND ELEVATION: 2356.3'
- 4 BIO-RETENTION POND #4
POND AREA: 3205F
DEPTH: 1.3'
POND ELEVATION: 2352.2'
- 5 BIO-INFILTRATION POND #5
POND AREA: 785F
DEPTH: 0.8'
POND ELEVATION: 2350.80'
- 6 FOUNDATION DRAIN
- 7 EXISTING WALL TO CONNECT WITH PROPOSED CONTINUATION OF WALL. EXISTING ELEVATIONS TO BE FIELD VERIFIED BY CONTRACTOR.
- 8 6" DEPRESSION, GRADE 5:1 OFF THE EDGE OF PAVEMENT
- 9 EXISTING TREE GROVE TO NOT BE DISTURBED

SPOT GRADE KEYNOTES

- EG EXISTING GROUND ELEVATION
- FG FINISH GROUND ELEVATION
- FF FINISH FLOOR ELEVATION
- FL FLOWLINE ELEVATION
- HP HIGH POINT ELEVATION
- LP LOW POINT ELEVATION
- TW TOP WALL ELEVATION
- BW BOTTOM WALL ELEVATION

STORM DRAINAGE NOTES

1. DRYWELLS SHALL BE EITHER TYPE 1 OR TYPE 2 PER COS STD PLAN B-102C AND B-102D. DRYWELLS SHALL HAVE AN OVERFLOW GRATE AND FRAME PER COS STD PLAN B-113.
2. TYPE 1 CATCH BASINS SHALL BE PER COS STD PLAN B-101C AND SHALL HAVE A TYPE 1 FRAME AND GRATE PER COS STD PLAN TYPE 1.
3. CLEANOUTS SHALL BE THE SAME SIZE AS THE PIPING SERVED BY THE CLEANOUT. CLEANOUTS SHALL BE SPACED NO MORE THAN 100 FEET APART. WHERE THERE IS A HORIZONTAL CHANGE OF DIRECTION GREATER THAN 45°, A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION. WHERE MORE THAN ONE CHANGE OF DIRECTION GREATER THAN 45° OCCURS WITHIN 40 FEET, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVICED AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET.
4. ALL STORM SEWER PIPING SHALL BE SOLID WALL SDR35 PVC STORM SEWER PIPE UNLESS NOTED OTHERWISE.
5. COORDINATE ROOF DRAIN DOWNSPOUT CONNECTIONS WITH ARCHITECTURAL, PLUMBING, AND STRUCTURAL PLANS.
6. ALL STORM SEWER STRUCTURE RIMS, GRATES, AND LIDS SHALL BE BOLT-DOWN.
7. CATCH BASIN RIMS SHALL BE RECESSED ONE INCH BELOW ADJACENT HARDSCAPE.
8. DRYWELLS SHALL BE INSTALLED TO THE ELEVATIONS INDICATED ON THE PLANS. FINISHED TOPSOIL ADJACENT TO THE DRYWELL SHALL BE AT LEAST 2 INCHES BELOW THE DRYWELL RIM.
9. STORM SEWER PIPE TRENCHES SHALL COMPLY WITH COS STD PLAN A-1 - A-3.
10. BIO-INFILTRATION SWALES SHALL HAVE A MAXIMUM TREATMENT DESIGN DEPTH (FROM SWALE BOTTOM TO ELEVATION OF DRYWELL GRATE OR FIRST OVERFLOW/OUTFLOW MECHANISM) OF 8 INCHES, UNLESS NOTED OTHERWISE. EITHER ORGANIC MATTER CONTENT OR CATION EXCHANGE CAPACITY (CEC) TESTING SHALL BE COMPLETED IN ORDER TO SUBSTANTIATE THE TREATMENT SOIL COMPOSITION. THE TESTS SHALL BE PERFORMED ON COMPOSITE SAMPLES TAKEN FROM THE TREATMENT SOIL LAYER FROM THE CONSTRUCTED SWALE BOTTOM. A COMPOSITE SAMPLE CONSISTS OF WELL-MIXED SOIL OBTAINED FROM AT LEAST FOUR CORES, TO A DEPTH OF AT LEAST 12 INCHES, RANDOMLY DISTRIBUTED OVER THE SWALE BOTTOM TEST AREA. STOCKPILE SAMPLES FROM ON-SITE OR A MATERIAL SUPPLIER CAN BE TESTED FOR INFORMATIONAL PURPOSES TO DETERMINE INITIAL SUITABILITY AND POSSIBLE SOIL AMENDMENTS, BUT WILL NOT BE ACCEPTED IN LIEU OF IN-PLACE TESTING. A MINIMUM OF ONE TEST SHALL BE PERFORMED FOR EACH BIO-INFILTRATION SWALE 1,500 SQUARE FEET OR LESS, WITH ONE ADDITIONAL TEST FOR EACH

- ADDITIONAL FOUR CORE SAMPLES TAKEN AS DESCRIBED ABOVE. TESTING RESULTS SHALL BE SUBMITTED AS PART OF THE CONSTRUCTION CERTIFICATION SUBMITTAL REQUIRED FOR RELEASE OF SURETY POSTED ON PROJECT.
11. IF, DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RE-CONSTRUCTED AT THE COST OF THE CONTRACTOR SO THAT IT DOES COMPLY.
 12. CONCRETE APRONS ARE REQUIRED AT THE INLET INTO ANY SWALE AND SHALL EXTEND TO AT LEAST 6 INCHES ABOVE THE SWALE BOTTOM. THE INTENTION IS TO ALLOW STORMWATER RUNOFF TO ENTER THE SWALE UNOBSTRUCTED, WITHOUT BACKING UP INTO THE STREET AND GUTTER DUE TO SOIL OVERGROWTH.
 13. UNLINED BIOINFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE SWALE FLOOR, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED. EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE SWALE BOTTOMS. THE FACILITY SUBGRADE SHALL BE A MEDIUM-TO-WELL DRAINING MATERIAL, WITH A MINIMUM THICKNESS OF 48 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 IN/HR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE SWALE ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (SOD AND 6 INCHES OF TREATMENT SOIL) SHALL BE A MEDIUM-TO-WELL DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.25-0.50 IN/HR.; SILTY LOAM OR LOAMY SILTS ARE PRESUMED TO HAVE AN INFILTRATIVE RATE THAT FALLS WITHIN THIS RANGE. SCARIFY THE FINISH GRADE OF THE SWALE BOTTOM PRIOR TO HYDROSEEDING/SODDING. TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE IS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE IS ONLY REQUIRED IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED.
 14. STORM SEWER PIPES AND DRYWELLS, AS MEASURED FROM THE OUTER SIDE OF THE PIPE/STRUCTURE, SHALL BE SEPARATED AT LEAST 10 FEET HORIZONTALLY FROM WATER MAINS. CROSSINGS OF WATER MAINS AND SEWER SYSTEMS SHALL HAVE A MINIMUM 18-INCH VERTICAL SEPARATION. ANY ANTICIPATED SEPARATION LESS THAN MINIMUM STANDARDS CONTAINED HEREIN, SHALL CONFORM COS STD PLAN A-5.
 15. STORMWATER FACILITIES, INCLUDING DRYWELLS, CATCH BASINS, PIPES, INFILTRATION GALERIES, AND OTHER STORM ITEMS, MUST BE CONSTRUCTED UNDER THE SUPERVISION OF THE WASTEWATER MANAGEMENT (WWM) DIVISION. STORMWATER TREATMENT FACILITIES SHALL BE INSPECTED PRIOR TO PLACEMENT OF TOPSOIL, PLANTINGS OR GRASS. THE CONTRACTOR SHALL CONTACT WWM OFFICE AT (509)625-7905 OR (509)625-7912 IN ORDER TO ARRANGE A MUTUALLY AGREEABLE INSPECTION SCHEDULE.

GRADING NOTES

1. THE CONTRACTOR SHOULD TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORMWATER FACILITIES (E.G. LINE THE FACILITY WITH FILTER FABRIC, OVER-EXCAVATE UPON COMPLETION OF THE INFRASTRUCTURE, ETC.).
2. EXCAVATION TO COMPLY WITH MARCH 23, 2021 "GEOTECHNICAL ENGINEERING EVALUATION" BY STRATA.
3. CONTRACTOR SHALL HAVE A MINIMUM (4) TEMPORARY BENCHMARKS (TBMS) WITHIN THE PROJECT AREA WHILE PERFORMING EXCAVATION AND EMBANKMENT. TBMS SHALL HAVE ELEVATIONS NOTED ON LATHE AND BE AVAILABLE FOR INDEPENDENT GRADE VERIFICATION.

STORM PIPE TABLE

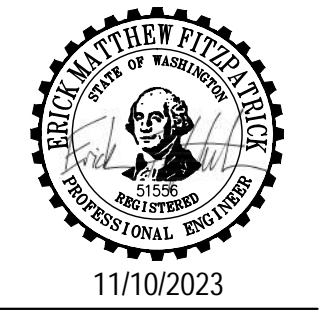
PIPE	SIZE	DEPTH	SPACING
D1	24 LF 4" PERP PIPE @ 1.00%	D21	30 LF 6" SDR35 @ 0.00%
D2	94 LF 4" PERP PIPE @ 1.00%	RD1	24 LF 6" SDR35 @ 1.26%
D3	113 LF 4" PERP PIPE @ 1.83%	RD2	17 LF 6" SDR35 @ 1.50%
D4	64 LF 6" SDR35 @ 2.66%	RD3	24 LF 6" SDR35 @ 1.50%
D5	37 LF 6" SDR35 @ 4.38%	RD4	49 LF 6" SDR35 @ 1.50%
D6	49 LF 4" SDR35 @ 1.50%	RD5	30 LF 8" SDR35 @ 0.80%
D7	48 LF 4" SDR35 @ 1.00%	RD6	23 LF 6" SDR35 @ 1.50%
D8	138 LF 4" SDR35 @ 1.32%	RD7	60 LF 6" SDR35 @ 1.06%
D9	64 LF 6" SDR35 @ 1.30%	RD8	54 LF 6" SDR35 @ 1.02%
D10	21 LF 4" SDR35 @ 1.00%	RD9	20 LF 6" SDR35 @ 24.06%
D11	21 LF 4" SDR35 @ 1.00%	RD11	50 LF 6" SDR35 @ 5.64%
D12	37 LF 4" SDR35 @ 1.00%	RD12	54 LF 6" SDR35 @ 0.59%
D13	39 LF 4" SDR35 @ 1.00%	RD13	108 LF 8" SDR35 @ 1.56%
D14	53 LF 6" SDR35 @ 2.96%	RD14	68 LF 6" SDR35 @ 2.03%
D15	18 LF 6" SDR35 @ 2.00%	RD15	10 LF 6" SDR35 @ 1.50%
D16	54 LF 8" SDR35 @ 1.80%	RD16	4 LF 4" SDR35 @ 1.87%
D17	113 LF 8" SDR35 @ 3.80%	RD17	59 LF 6" SDR35 @ 2.32%
D18	79 LF 8" SDR35 @ 1.00%	RD18	22 LF 6" SDR35 @ 1.00%
D19	60 LF 8" SDR35 @ 1.00%	RD19	2 LF 4" SDR35 @ 28.54%
D20	69 LF 8" SDR35 @ 1.00%	RD20	51 LF 6" SDR35 @ 1.20%

STORM STRUCTURE TABLE

NO.	AREA DRAIN	AREA DRAIN	TYPE 1	MANHOLE	RD POC
AD1	N: 245874.24 E: 2494986.68 RIM 2361.77 IE 2358.75 (4" SE)	N: 245875.72 E: 2494983.87 RIM 2361.77 IE 2358.50 (4" SE)	N: 246020.98 E: 2494785.10 RIM 2359.56 IE 2356.50 (6" E)	EX MH1	N: 245832.72 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD2	N: 245872.98 E: 2494997.09 RIM 2363.70 IE 2358.51 (4" NW)	N: 245872.98 E: 2494997.09 RIM 2363.70 IE 2358.51 (4" NW)	N: 246057.08 E: 2494803.54 RIM 2362.42 IE 2358.54 (4" NW)	SDCO1	N: 245896.55 E: 2494808.62 RIM 2361.03 IE 2358.60 (6" S)
AD3	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	N: 246057.08 E: 2494803.54 RIM 2362.42 IE 2358.54 (4" NW)	SDCO2	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD4	N: 245887.39 E: 2495024.36 RIM 2358.58 IE 2355.50 (6" N)	N: 245887.39 E: 2495024.36 RIM 2358.58 IE 2355.50 (6" N)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO3	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD5	N: 245890.92 E: 2495001.75 RIM 2358.22 IE 2353.81 (6" N)	N: 245890.92 E: 2495001.75 RIM 2358.22 IE 2353.81 (6" N)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO4	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD6	N: 245991.32 E: 2494986.66 RIM 2360.55 IE 2357.50 (4" E)	N: 245991.32 E: 2494986.66 RIM 2360.55 IE 2357.50 (4" E)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO5	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD7	N: 245999.15 E: 2495017.87 RIM 2359.74 IE 2356.76 (4" NE)	N: 245999.15 E: 2495017.87 RIM 2359.74 IE 2356.76 (4" NE)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO6	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD8	N: 246009.95 E: 2495060.91 RIM 2360.93 IE 2356.28 (4" SW)	N: 246009.95 E: 2495060.91 RIM 2360.93 IE 2356.28 (4" SW)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO7	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)
AD9	N: 246014.50 E: 2495199.19 RIM 2357.54 IE 2354.45 (4" W)	N: 246014.50 E: 2495199.19 RIM 2357.54 IE 2354.45 (4" W)	N: 245876.22 E: 2495091.92 RIM 2362.77 IE 2357.57 (4" E)	SDCO8	N: 245973.25 E: 2494798.40 RIM 2361.92 IE 2354.08 (6" S)

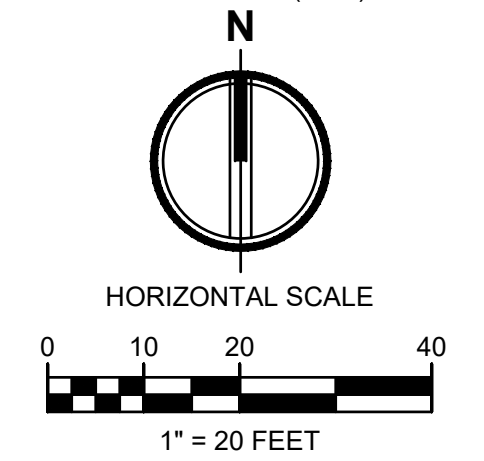
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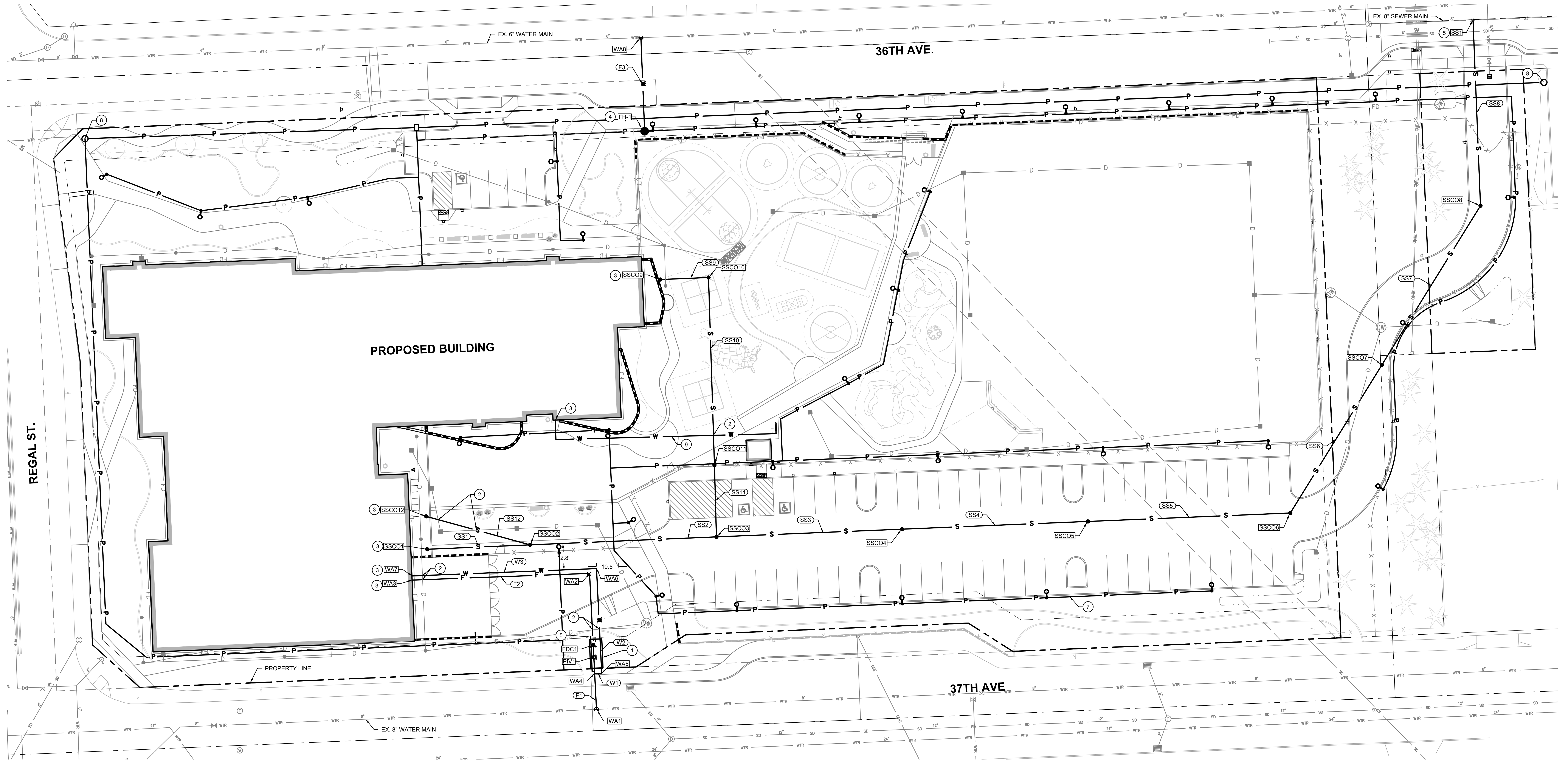
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UTILITY PLAN

CD
C400

KEYNOTES

- 1 6' X 14' WATER VAULT PER COS STD PLAN Y-117
- 2 UTILITY CROSSING PER COS STD PLAN A-5
- 3 BUILDING CONNECTION; SEE MEP PLANS FOR CONTINUATION
- 4 HYDRANT ASSEMBLY PER COS STD PLAN Y-101
- 5 IRRIGATION POC; SEE LANDSCAPE PLANS FOR CONTINUATION
- 6 SIDE SEWER CONNECTION PER COS STD PLAN Z-116
- 7 PROVIDE TRENCH, BEDDING, AND BACKFILL FOR DRY UTILITY LINES. COORDINATE TRENCH LOCATION WITH RELEVANT DISCIPLINE.
- 8 POWER POLE AND UNDERGROUND LINES TO BE COORDINATED WITH AVISTA AND RELEVANT DISCIPLINES.
- 9 1" TYPE K COPPER PIPE TO DRINKING FOUNTAIN

SANITARY SEWER NOTES

1. UNLESS SHOWN OTHERWISE ON THE PLANS, PIPE MATERIAL FOR SEWER MAIN AND SIDE SEWER SHALL BE PVC CONFORMING TO ASTM D 3034, SDR35. SIDE SEWER SHALL BE INSTALLED AT A 2.00% MINIMUM SLOPE. SIDE SEWERS WITH A SLOPE LESS THAN 2.00% SHALL BE SURVEYED TO VERIFY A MINIMUM SLOPE OF 0.60% IS MAINTAINED.
2. SANITARY SEWER CLEANOUTS SHALL BE PER COS STD PLAN Z-114A AND THE SAME SIZE AS THE PIPING SERVED BY THE CLEANOUT. CLEANOUTS SHALL BE SPACED NO MORE THAN 100 FEET APART, WHERE THERE IS A HORIZONTAL CHANGE OF DIRECTION GREATER THAN 45°, A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION, WHERE MORE THAN ONE CHANGE OF DIRECTION GREATER THAN 45° OCCURS WITHIN 40 FEET, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVICE AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET.
3. UTILITY SEPARATIONS, INCLUDING WATER AND SEWER OR STORM CROSSINGS, SHALL BE IN ACCORDANCE WITH THE COS STD PLANS A-4, A-5, A-6, & A-7.
4. THE CONTRACTOR MUST CONTACT CITY OF SPOKANE WASTEWATER MANAGEMENT DIVISION OFFICE IN ORDER TO ARRANGE A MUTUALLY AGREEABLE INSPECTION SCHEDULE. ALL FACILITIES MUST BE UNCOVERED AT THE TIME OF THE INSPECTION.

SEWER STRUCTURE TABLE

STRUCTURE #	DESCRIPTION	COORDINATES
SS1	SADDLE TAP	N: 245083.8994 E: 2495307.4176 RIM 2341.70 IE 2341.16 (6" S)
SSC01	CLEANOUT	N: 245827.8770 E: 2494801.4474 RIM 2361.89 IE 2356.50 (6" E)
SSC02	CLEANOUT	N: 245830.0150 E: 2494851.1864 RIM 2361.54 IE 2355.45 (6" W) IE 2355.45 (6" E) IE 2355.45 (6" W)
SSC03	CLEANOUT	N: 245833.8824 E: 2494941.3593 RIM 2361.60 IE 2354.00 (6" W) IE 2354.00 (6" S) IE 2354.00 (6" N)
SSC04	CLEANOUT	N: 245837.6015 E: 2495031.1768 RIM 2362.46 IE 2351.88 (6" W) IE 2351.88 (6" E)
SSC05	CLEANOUT	N: 245841.3393 E: 2495121.0992 RIM 2360.96 IE 2349.76 (6" W) IE 2349.76 (6" E)
SSC06	CLEANOUT	N: 245845.4225 E: 2495219.0141 RIM 2358.09 IE 2347.45 (6" W) IE 2347.45 (6" NE)
SSC07	CLEANOUT	N: 245817.1331 E: 2495263.3337 RIM 2345.70 IE 2345.46 (6" SW) IE 2345.46 (6" NE)
SSC08	CLEANOUT	N: 245894.0732 E: 2495311.0259 RIM 2363.19 IE 2343.30 (6" SW) IE 2343.30 (6" N)
SSC09	CLEANOUT	N: 245858.3719 E: 2494814.2372 RIM 2363.25 IE 2359.25 (6" E)
SSC10	CLEANOUT	N: 245869.6943 E: 2494940.3945 RIM 2362.75 IE 2356.36 (6" N) IE 2356.36 (6" S)
SSC11	CLEANOUT	N: 245843.7974 E: 2494800.9336 RIM 2361.86 IE 2358.50 (6" E)
SSC12	CLEANOUT	N: 245830.0150 E: 2494851.1864 RIM 2361.54 IE 2355.45 (6" W) IE 2355.45 (6" E) IE 2355.45 (6" W)

SEWER PIPE TABLE

PIPE #	DESCRIPTION
SS1	50 LF 6" SDR35 @ 2.11%
SS2	90 LF 6" SDR35 @ 1.61%
SS3	90 LF 6" SDR35 @ 2.36%
SS4	90 LF 6" SDR35 @ 2.36%
SS5	98 LF 6" SDR35 @ 2.36%
SS6	84 LF 6" SDR35 @ 2.36%
SS7	91 LF 6" SDR35 @ 2.39%
SS8	90 LF 6" SDR35 @ 2.38%
SS9	23 LF 6" SDR35 @ 5.36%
SS10	91 LF 6" SDR35 @ 2.91%
SS11	35 LF 6" SDR35 @ 3.91%
SS12	52 LF 6" SDR35 @ 5.85%

WATER STRUCTURE TABLE

STRUCTURE #	DESCRIPTION	COORDINATES
FDC1	FIRE DEPARTMENT CONNECTION	N: 245781.4641 E: 2494882.4321 RIM 2357.64 IE 2357.29 (3" CPEP E)
FH-1	HYDRANT ASSEMBLY	N: 248030.0732 E: 2494906.6097 RIM 2359.71 IE 2357.29 (6" DI CL52 N)
PIV1	POST INDICATOR VALVE	N: 245775.6801 E: 2494882.0301 RIM 2358.91
WA1	6"X8" TEE (MJ)	N: 245750.4319 E: 2494883.3114 RIM 2357.49 IE 2356.95 (6" DIP CL52 N)
WA2	6" 90° BEND	N: 245816.2171 E: 2494879.9730 RIM 2360.85 IE 2356.95 (6" DIP CL52 S) IE 2355.88 (6" DIP CL52 W)
WA3	BUILDING CONNECTION	N: 245812.9717 E: 2494794.1956 RIM 2356.43 IE 2355.88 (6" DIP CL52 E)

WATER PIPE TABLE

PIPE #	DESCRIPTION
F1	66 LF 6" DI CL52
F2	86 LF 6" DI CL52
F3	45 LF 6" DI CL52
W1	3 LF 3" HDPE
W2	51 LF 3" HDPE
W3	89 LF 3" HDPE
WA4	3" 90° BEND
WA5	3" 90° BEND
WA6	6"X8" TEE (MJ)
WA7	6" 90° BEND
WA8	6"X8" TEE (MJ)



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