9920 WAYZATA BOULEVARD

St. Louis Park, Minnesota

WSB & Associates, Inc. Project No. 018843-000
Issue Date.. SEPTEMBER 07, 2021 PUD SUBMITTAL

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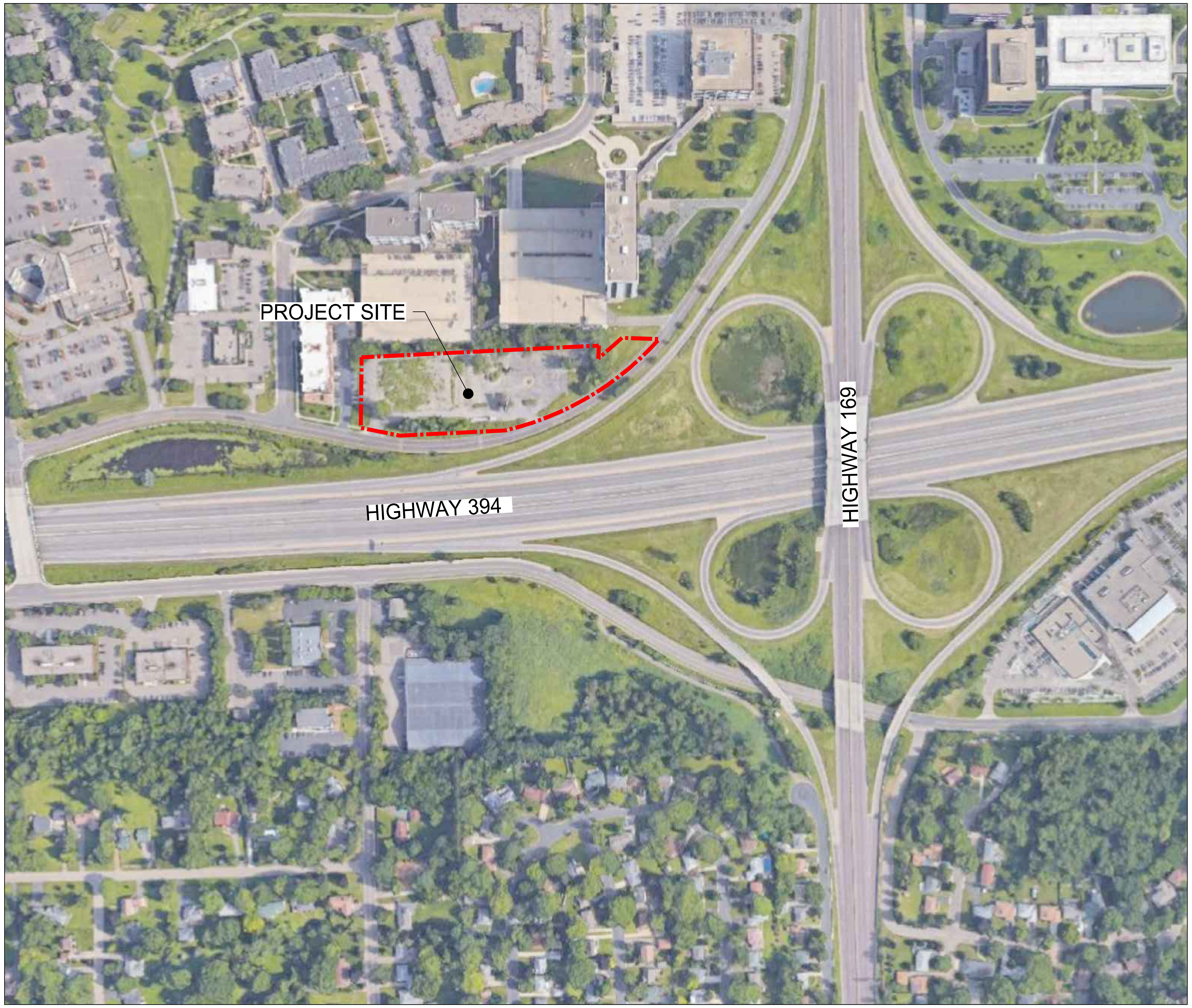

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PROJECT LOCATION MAP
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UTILITY INFORMATION

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND REQUIREMENTS OF THE DETAILED SPECIFICATIONS.
2. OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PAY ALL PERMIT AND OTHER ASSOCIATED FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES.
3. EXISTING SITE INFORMATION WAS TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY COMPLETED BY GRONBERG & ASSOCIATES, INC., MINNESOTA, DATED JANUARY 3, 2017. ACTUAL FIELD CONDITIONS MAY VARY. VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE OWNER AND ARCHITECT OF ANY DISCREPANCIES AFFECTING THE SCOPE OF THIS CONTRACT. PROTECT ALL PROPERTY CORNERS. RELOCATE BENCHMARKS AS NECESSARY WITH NEW BENCHMARK LOCATIONS WITHIN A TOLERANCE OF 0.010 VERTICAL FEET.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS. ALL SURFACE FEATURES THAT CONFLICT WITH PROPOSED CONDITIONS SHALL BE REMOVED OR RELOCATED WHETHER OR NOT SHOWN ON SURVEY OR SPECIFICALLY CALLED OUT. THIS INCLUDES BUT IS NOT LIMITED TO CLEARING AND GRUBBING.
5. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARKING AUTHORITY PRIOR TO CONSTRUCTION.

GOVERNING SPECIFICATIONS (2017 SPECIFICATIONS)

THE CITY OF ST. LOUIS PARK SHALL GOVERN ANY WORK IN THE RIGHT-OF-WAY.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

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COVER SHEET

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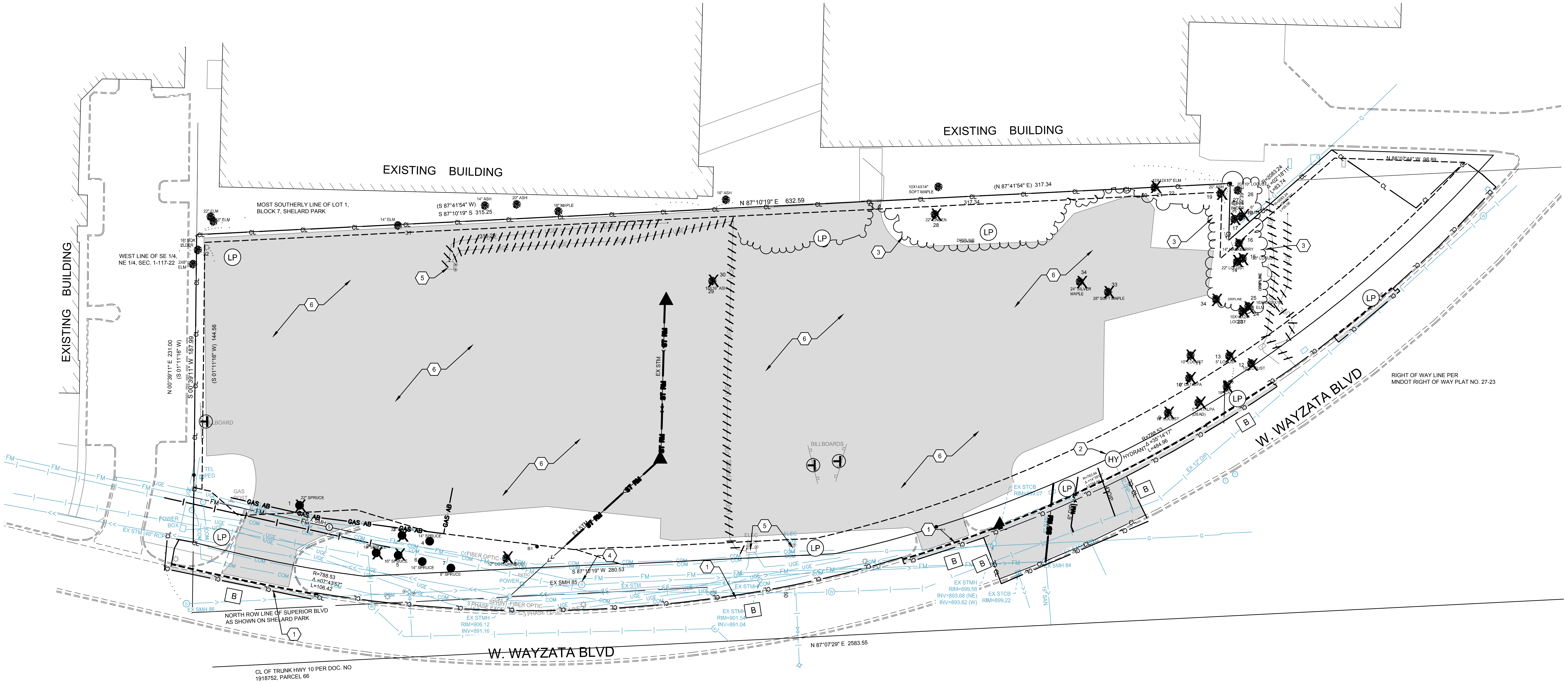


TREE INVENTORY LIST

ALL SIZES ARE IN INCHES AT D.B.H
X = TO BE REMOVED

TREE #	SIZE	TYPE	CONDITION
1 X	22	SPRUCE	SIGNIFICANT
2 X	22	SPRUCE	SIGNIFICANT
3 X	14	SPRUCE	SIGNIFICANT
5 X	16	SPRUCE	SIGNIFICANT
8 X	12	COTTONWOOD	SIGNIFICANT
9 X	18	LOCUST	SIGNIFICANT
10 X	8	CATALPA	SIGNIFICANT
11 X	10	LOCUST	SIGNIFICANT
12 X	10	LOCUST	SIGNIFICANT
13 X	5	LOCUST	SIGNIFICANT
14 X	22	LOCUST	SIGNIFICANT
15 X	20	LOCUST	SIGNIFICANT
16 X	14	HACKBERRY	SIGNIFICANT
17 X	8	BOXELDER	COMMON

TREE #	SIZE	TYPE	CONDITION
18 X	6	LOCUST	SIGNIFICANT
19 X	20	ASH	COMMON
20 X	12	ELM	COMMON
21 X	12	ELM	COMMON
22 X	10	ELM	COMMON
23 X	10	LOCUST	SIGNIFICANT
24 X	10	LOCUST	SIGNIFICANT
25 X	24	LOCUST	SIGNIFICANT
26 X	20	LOCUST	SIGNIFICANT
27 X	10	LOCUST	SIGNIFICANT
28 X	22	LINDEN	SIGNIFICANT
29 X	16	ASH	COMMON
30 X	18	ASH	COMMON
31 X	14	ELM	COMMON
32 X	18	BOXELDER	COMMON

NOTE: TREES 4, 6 & 7 HAVE BEEN REMOVED FROM THIS LIST AND ARE TO BE PRESERVED SEE LANDSCAPE PLANS FOR ADDITIONAL DETAIL.

LEGEND

SIGNIFICANT - AN TREE AT LEAST 5 CALIPER INCHES (DECIDUOUS) OR 6 CALIPER INCHES (CONIFEROUS) OR GREATER IN EXCELLENT CONDITION, OR ANY TREE THE CITY HAS A STRONG DESIRE TO PRESERVE. THIS INCLUDES ASPEN, COTTONWOOD, OR SILVER MAPLE AT LEAST 12 CALIPER INCHES DBH IN HEALTHY CONDITION.

COMMON - ANY OF THE FOLLOWING TREES: WILLOW, SIBERIAN ELM, BOX ELDER, BLACK LOCUST OR ASPEN, COTTONWOOD, OR SILVER MAPLE UNDER 12 CALIPER INCHES OR OTHER FAST GROWING DECIDUOUS TREES NOT LISTED AS AN SIGNIFICANT TREE INCLUDING TREES IN POOR PHYSICAL CONDITION.

SUMMARY

ABOUT HALF OF ALL TREES CURRENTLY GROWING ON THE SITE ARE COMMON TREES. THESE TREES CARRY LOW VALUE IN EFFORTS FOR PRESERVATION AND ARE BETTER TO BE REMOVED AND NEW HARDWOOD TREES BE PLANTED AS PART OF THE ZONING REQUIREMENTS.

THERE ARE TWO "EXCEPTIONAL" TREES ON THE SITE BUT ARE SMALLER IN SIZE NOT MAKING THEM "SIGNIFICANT" TREES. BOTH OF THESE TREES ARE LOCATED IN PROPOSED PARKING AREAS. THESE CATALPA TREE IS NOT NATIVE TO THE SITE AND HAVE BEEN PLANTED AS PART OF THE PREVIOUS SITE DEVELOPMENT PROJECT. THE HACKBERRY TREE POTENTIALLY IS A VOLUNTEER GROWING IN A LARGER WOODED GROVE OF TREES.

THERE "SIGNIFICANT" TREES WHICH ARE LOCATED ON SITE. MANY OF THEM ARE WITHIN PROPOSED PARKING AREAS OR IN THE PROPOSED FIRE LANE AND TRASH ACCESS LANE. MANY OF THESE TREES HAVE BEEN PLANTED AS PART OF PREVIOUS SITE DEVELOPMENT PARKING LOT REQUIREMENTS. SOME OF THE OTHER TREES ARE GROWING IN A GROVES OF OTHER LOW VALUE COMMON TREES AND HAVE A POOR OVERALL STRUCTURE AND VALUE TO THE SITE. AGAIN, MOST OF THESE TREES WOULD BE BETTER TO BE REMOVED AND REPLACED WITH HIGHER QUALITY HARDWOOD TREES MEETING CURRENT ZONING REQUIREMENTS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS. ALL SURFACE FEATURES THAT CONFLICT WITH PROPOSED CONDITIONS SHALL BE REMOVED OR RELOCATED WHETHER OR NOT SHOWN ON SURVEY OR SPECIFICALLY CALLED OUT. THIS INCLUDES BUT IS NOT LIMITED TO CLEARING AND GRUBBING.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION (SEE GRADING AND DRAINAGE PLAN).
3. MAINTAIN FIRE ACCESS WITHIN 150 FEET OF EXTERIOR AREAS OF ALL BUILDINGS DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL REFER TO THE MUTCD FOR TRAFFIC CONTROL REQUIREMENTS. THE CONTRACTOR MAY BE REQUIRED TO PHASE CONSTRUCTION TO MINIMIZE DISRUPTION TO TRAFFIC AND MAINTAIN SITE SAFETY. CONSTRUCTION OPERATIONS SHALL BE PERFORMED IN A WAY TO MINIMIZE THE DISRUPTION TO THE NORMAL FLOW OF TRAFFIC ON ALL STREETS, ALLEYS, AND PUBLIC BUILDING ACCESS.
5. THE CONTRACTOR SHALL OBTAIN AND CONFORM TO ALL PERTINENT CITY, COUNTY AND STATE DETAILS, SPECIFICATIONS, PERMITS, AND COORDINATE INSPECTIONS AS REQUIRED BY THE GOVERNING BODY DURING THE ENTIRE PROJECT DURATION
6. CONTACT PUBLIC AND PRIVATE UTILITY OWNERS A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND TOPOGRAPHIC FEATURES NOT SCHEDULED FOR REMOVAL. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIRING DAMAGE TO EXISTING UTILITIES, RELOCATING, WORKING AROUND, OR PROTECTING EXISTING UTILITIES OR OTHER APPURTENANCES.
7. COORDINATE WITH PRIVATE UTILITY COMPANIES (ELECTRIC, GAS, COMMUNICATIONS) FOR TERMINATION REMOVAL AND OR RELOCATION OF EXISTING SERVICES THROUGHOUT SITE AND REPLACEMENT WITH NEW SERVICES FOR THE PROPOSED DEVELOPMENT.
8. REMOVE TOPSOIL WITHIN LIMITS OF CONSTRUCTION. STOCKPILE ON-SITE FOR USE IN AREAS NOT SCHEDULED FOR BUILDING, PAVEMENT, OR SIDEWALK.
9. A DIAMOND EDGE SAWBLADE SHALL BE USED FOR CUTTING ALL PAVEMENT MARKED FOR REMOVAL.
10. SAWCUT EXISTING PAVEMENT WHICH ABUTS ALL NEW PAVEMENTS TO PROVIDE A STRAIGHT VERTICAL EDGE.
11. PROTECT BY WHATEVER MEANS REQUIRED ALL FENCES, SIGNS, STRUCTURES, DRIVES, SIDEWALKS, STREETS, BUSHES, TREES, ETC. WHICH ARE NOT DESIGNATED FOR REMOVAL, OR OUTSIDE THE LIMITS OF CONSTRUCTION.
12. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE INCURRED DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, DAMAGE CAUSED BY SUBCONTRACTORS TO THE GENERAL CONTRACTOR. REPAIRS SHALL EQUAL OR EXCEED THE QUALITY OF EXISTING CONDITIONS.
13. CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL ITEMS NECESSARY TO ACCOMMODATE THE PROPOSED IMPROVEMENTS WHETHER SPECIFICALLY CALLED OUT BY NOTE OR NOT.
14. THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT AND OTHER IMPROVEMENTS. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH ST. LOUIS PARK PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION.
15. ALL DEBRIS AND REFUSE RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND DISPOSED OF PROPERLY AT THE CONTRACTOR'S EXPENSE.
16. CONTRACTOR SHALL KEEP EXISTING SANITARY SEWER FORCE MAIN IN SERVICE UNTIL NEW FORCE MAIN IS INSTALLED.

KEYNOTES

⟨1⟩ COORDINATE REMOVAL OF BITUMINOUS PAVING WITH CONSTRUCTION SCHEDULE.

⟨2⟩ REMOVE EXISTING HYDRANT. INSTALL NEW HYDRANT IN ACCORDANCE WITH SHEET CU101.

⟨3⟩ REMOVE ALL TREES AND VEGETATION WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR TO FIELD VERIFY.

⟨4⟩ ADJUST EXISTING SANITARY SEWER CASTING. SEE SHEET CU501.

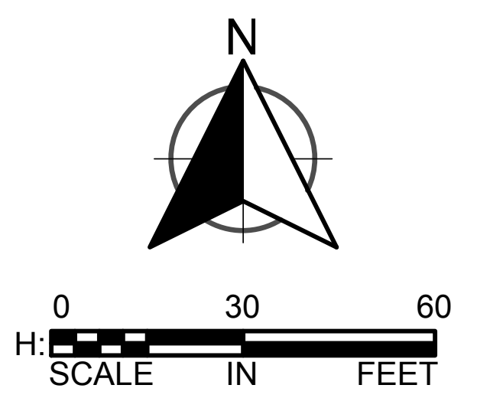
⟨6⟩ PROVIDED SURVEY DOES NOT INCLUDE EXISTING PAVEMENT AND CURB THAT STILL EXISTS THROUGHOUT SITE AND MUST BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXTENT OF REQUIRED REMOVALS PRIOR TO BID.

LEGEND (EXISTING)

1019	EXISTING CONTOURS
—I—I—	EXISTING WATERMAIN
Ⓦ	EXISTING WATER MANHOLE
⌖	EXISTING HYDRANT
—>—>—	EXISTING SANITARY SEWER
Ⓢ	EXISTING SANITARY SEWER MANHOLE
FM	EXISTING SANITARY SEWER FORCE MAIN
—≫—	EXISTING STORM SEWER
ST ▨	EXISTING STORM SEWER MANHOLE/CATCH BASIN
UGT	EXISTING UNDERGROUND TELEPHONE
Ⓣ	EXISTING TELEPHONE MANHOLE
UGE	EXISTING UNDERGROUND ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
GAS	EXISTING UNDERGROUND GAS
✱ ●	EXISTING TREES

REMOVAL LEGEND

▨	REMOVE ALL PAVEMENT, CURBING AND CONCRETE WALK
CL	CONSTRUCTION LIMITS
B	SAW CUT BITUMINOUS PAVEMENT (FULL DEPTH)
GAS AB	ABANDON GAS SUPPLY LINE
//////////	REMOVE UTILITY
SS RM	REMOVE SANITARY SEWER
ST RM	REMOVE STORM SEWER
WM RM	REMOVE WATERMAIN
- - - - -	REMOVE CURB & GUTTER
SS	REMOVE SANITARY STRUCTURE
HY	REMOVE HYDRANT, VALVE AND LEAD
LP	REMOVE LIGHT POLE
▲	REMOVE DRAINAGE STRUCTURE
X	REMOVE TREE



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REMOVALS PLAN

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TITLE

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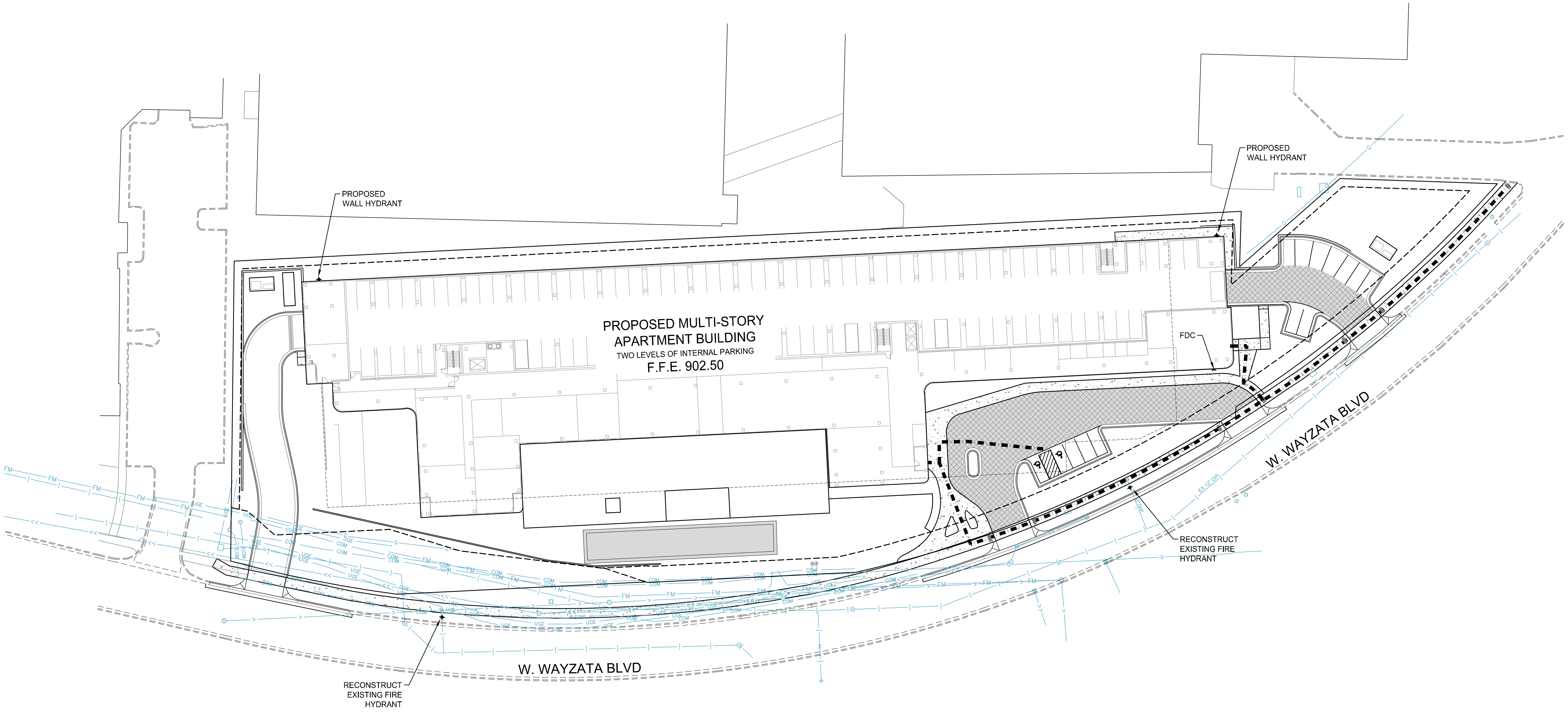
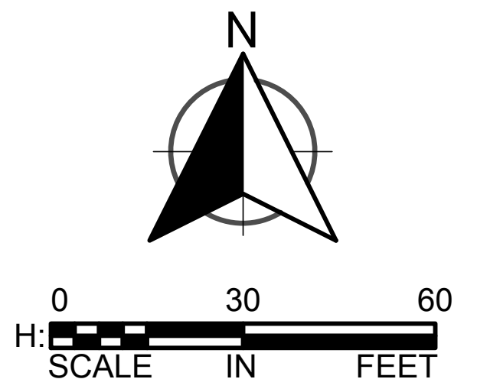
LEGEND

▨	ASPHALT PAVEMENT (HEAVY DUTY)
●	ADA LANDING
■ ■ ■	ADA ROUTE





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FIRE PLAN

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TITLE

C0.02

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KEYNOTES

① B624 CURB AND GUTTER. (SEE DETAIL 3 & 4/C0.05)
② B618 CURB AND GUTTER. (SEE DETAIL 3/C0.05)
③ ASPHALT PAVEMENT, LIGHT DUTY. (SEE DETAIL 8/C0.05)
④ CONCRETE PAVEMENT. (SEE DETAIL 7/C0.05)
⑤ CONCRETE SIDEWALK. (SEE DETAILS 2/C0.05)
⑥ PAINTED PARKING STRIPE, 4" WIDE, WHITE; TYPICAL.
⑦ THICKENED BITUMINOUS EDGE. (SEE DETAIL 1/C0.05)
⑧ ACCESSIBLE PARKING STALL(S) (SEE DETAILS 3/C0.06)
⑨ COMMERCIAL DRIVE APRON. (SEE DETAIL 1/C0.04)
⑩ BICYCLE RACK(S) (SEE DETAIL 1/C0.06)
⑪ RETAINING WALL (DESIGN AND DETAIL BY OTHERS).
⑫ GENERATOR PAD. (SEE ARCHITECTURAL PLANS)
⑬ ELECTRICAL TRANSFORMER PAD. (SEE ARCHITECTURAL PLANS)
⑭ ASPHALT PAVEMENT (HEAVY DUTY). (SEE DETAIL 9/C0.05)
⑮ MULTI LANE ROAD REPAIR. (SEE DETAIL 6/C0.04)
⑯ TRENCH DRAIN.
⑰ R-TANK STORMWATER RETENTION FACILITY.

DIMENSIONAL PARKING STANDARDS

STANDARD PARKING STALL DIMENSION - 8.5FT x 18FT
COMPACT PARKING STALL DIMENSION - 8FT X 15FT
ACCESSIBLE PARKING STALL DIMENSION - 8FT x 18FT
MINIMUM DRIVE ISLE WIDTH (TWO WAY) - 24 FT

PARKING SUMMARY

SEE ARCHITECTURAL SITE PLAN

SITE PLAN NOTES

1. SEE SHEET C0.00 FOR CIVIL GENERAL NOTES.
2. SEE SHEET C0.01 FOR EXISTING CONDITIONS & DEMOLITION PLAN.
3. SEE ARCHITECTURAL PLAN AND LANDSCAPE PLANS FOR ADDITIONAL SITE PLAN FEATURES.
4. PATCH EXISTING STREET PAVEMENTS TO MATCH EXISTING STRUCTURAL SECTION WHEN INSTALLING CURB AND DRIVEWAYS.
5. THE CONTRACTOR SHALL CONSTRUCT ALL PAVEMENTS TO CONFORM WITH THE CORRECT LINES AND FINISHED GRADES AS INDICATED ON THE PLANS AND TO MATCH EXISTING PAVEMENT GRADES AT TIE-IN POINTS. NO PONDING OF WATER WILL BE ALLOWED.
6. SAW ALL CONCRETE CONSTRUCTION JOINTS, CLEAN THEM OF DEBRIS, BLOW THEM DRY AND IMMEDIATELY SEAL WITH JOINT SEALANT.
7. DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT AND EXTERIOR FINISH FACE OF STRUCTURES UNLESS OTHERWISE NOTED.

LEGEND

▨	ASPHALT PAVEMENT (HEAVY DUTY)
▭	ASPHALT PAVEMENT (LIGHT DUTY)
▭	CONCRETE WALK
▨	CONCRETE PAVEMENT
⑪	PARKING COUNT
—I—	EXISTING WATER MAIN
⊗	EXISTING WATER MANHOLE
✧	EXISTING HYDRANT
—>—	EXISTING SANITARY SEWER
Ⓢ	EXISTING SANITARY SEWER MANHOLE
—FM—	EXISTING SANITARY SEWER FORCE MAIN
—>>—	EXISTING STORM SEWER
⊙ ▨	EXISTING STORM SEWER MANHOLE/CATCH BASIN
—UGT—	EXISTING UNDERGROUND TELEPHONE
Ⓣ	EXISTING TELEPHONE MANHOLE
—UGE—	EXISTING UNDERGROUND ELECTRIC
—OHE—	EXISTING OVERHEAD ELECTRIC
—GAS—	EXISTING UNDERGROUND GAS
●	EXISTING TREES
- - - -	UTILITY EASEMENT LINE
—·—·—	BUILDING SETBACK LINE

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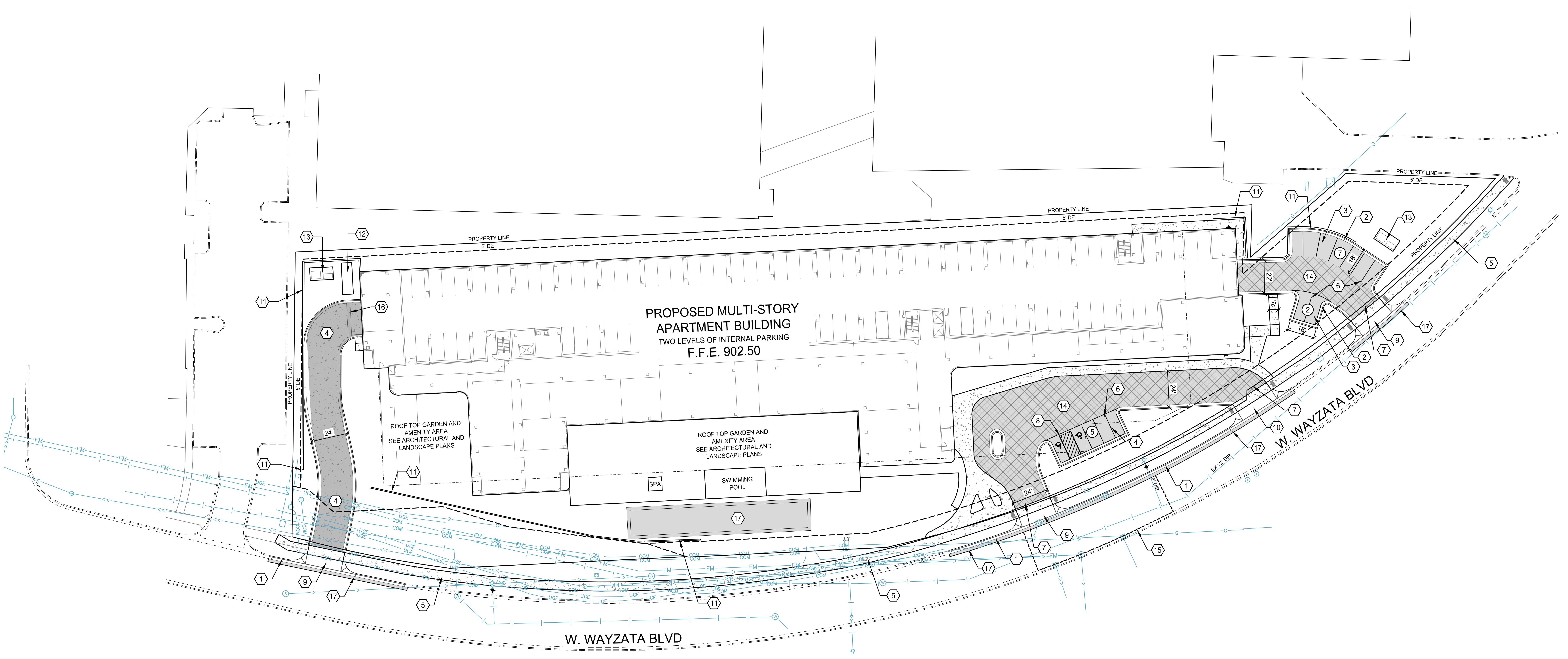

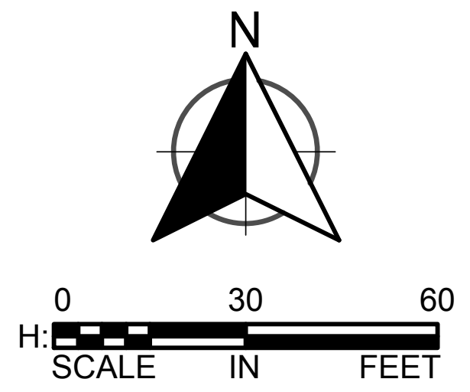

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SITE PLAN

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TABULATION OF PROJECT AREAS	
TOTAL PROJECT AREA (BOUNDARY)	3.108 ACRES
IMPERVIOUS BEFORE DEVELOPMENT	2.300 ACRES
IMPERVIOUS AFTER DEVELOPMENT	2.258 ACRES
TOTAL DISTURBED AREA	3.509 ACRES
DEVELOPABLE AREA	3.108 ACRES

EARTHWORK	
UNADJUSTED CUT	2,010 CY
UNADJUSTED FILL	11,915 CY
NET FILL	9,905 CY

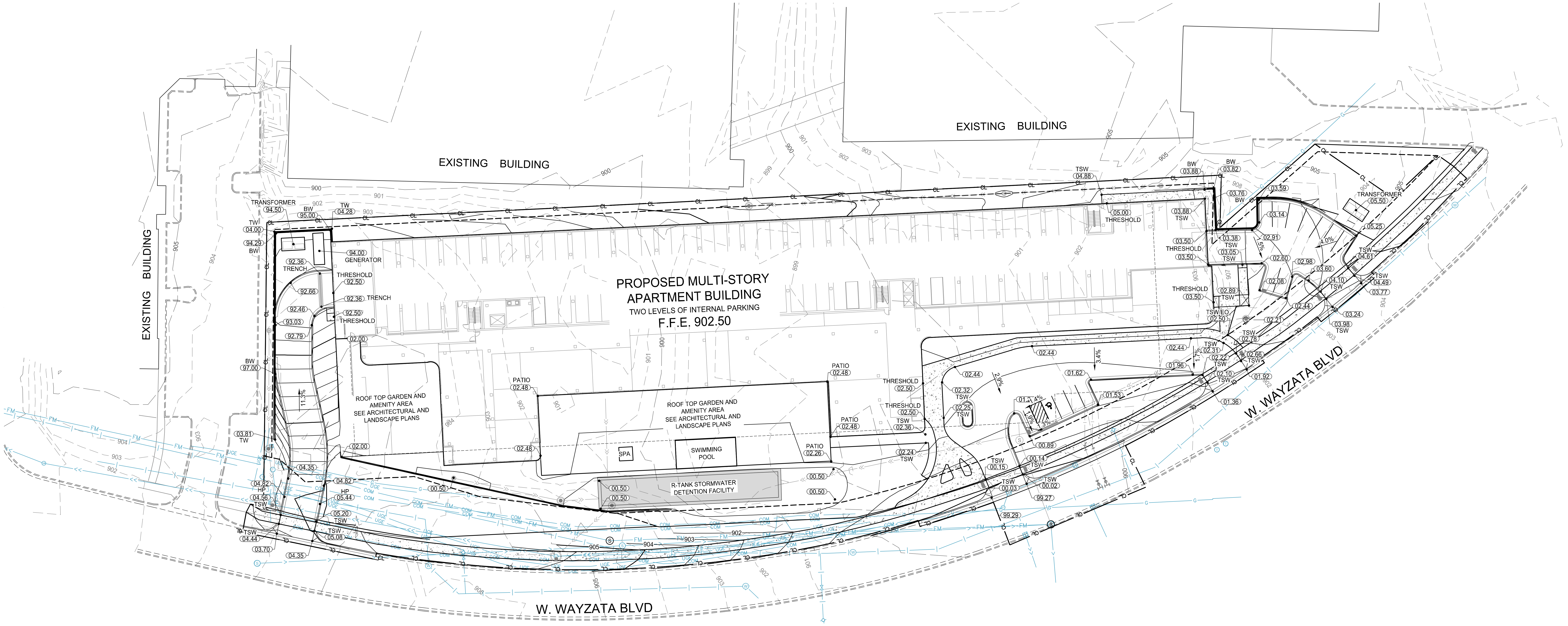
THIS IS AN ENGINEER'S ESTIMATE AND DOES NOT INCLUDE HOLD DOWNS, ANY REQUIRED SOILS CORRECTIONS. CONTRACTOR RESPONSIBLE FOR VERIFYING ACTUAL REQUIRED EARTHWORK FOR SITE.

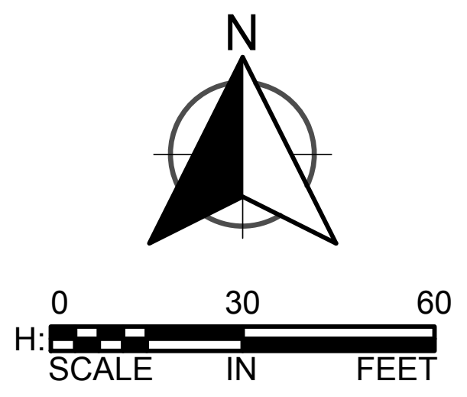
SITE GRADING NOTES

1. SEE SHEET C0.00 FOR CIVIL GENERAL NOTES.
2. RELOCATE BENCHMARKS AS NECESSARY WITH NEW BENCHMARK LOCATIONS WITHIN A TOLERANCE OF 0.010 VERTICAL FEET.
3. BUILDING FLOOR ELEVATIONS (FFE) AS INDICATED ON THESE DRAWINGS CORRESPOND TO ELEVATION 100'-0" ON ALL OTHER DISCIPLINE SHEETS (ARCHITECTURAL, STRUCTURAL, ETC).
4. THE PROPOSED GRADES SHOWN ON THE GRADING PLAN ARE FINISHED GRADES. SPOT ELEVATIONS ALONG CURB LINES REPRESENT THE FLOW LINE ELEVATION OF THE CURB UNLESS OTHERWISE NOTED.
5. SPOT ELEVATIONS SHOWN AT CATCH BASINS ON THIS PLAN DO NOT REFLECT 2" CASTING SUMP AND ACTUAL RIM ELEVATIONS. SEE SHEETS UTILITY PLANS FOR ACTUAL RIM ELEVATIONS.
6. GRADING ACTIVITY WHICH BLOCKS TRAFFIC OF ANY STREET, ALLEY, OR DRIVE IS SUBJECT TO APPROVAL BY THE CITY OF ST. LOUIS PARK.
7. CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER AND OWNER IF CONTAMINANTS ARE FOUND IN THE EXISTING SOILS.
8. SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 2.0% AND LONGITUDINAL SLOPES SHALL NOT EXCEED 5.0% UNLESS SPECIFICALLY NOTED HEREIN.
9. IN AREAS WHERE NEW FILL IS TO BE PLACED ON SLOPING GROUND, BENCHING THE SURFACE SHALL BE COMPLETED PRIOR TO PLACING THE FILL. BENCHING SHALL BE COMPLETED WHERE SLOPES ARE STEEPER THAN 4:1 (HORIZONTAL:VERTICAL). REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
10. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO POND IN EXCAVATION AREAS, AND MAINTAIN ALL EXISTING DRAINAGE PATTERNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL OSHA REGULATIONS IN THE EXECUTION OF WORK UNDER THIS CONTRACT.
12. THE OWNER WILL APPLY FOR A CITY OF ST. LOUIS PARK GRADING PERMIT. THE CONTRACTOR SHALL CHECK WITH THE OWNER FOR CITY APPROVAL OF THE CITY OF ST. LOUIS PARK GRADING PERMIT BEFORE STARTING WORK. THE INSPECTOR AND THE CITY OF ST. LOUIS PARK SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS BEFORE START OF CONSTRUCTION. NO WORK MAY BEGIN UNTIL THE PERMIT HAS BEEN RECEIVED AND THE CONTRACTOR MUST COMPLY WITH THE TERMS OF THE PERMIT.
13. ALL NON-PAVED AREAS SHALL RECEIVE A FOUR-INCH (4") LAYER OF TOPSOIL. REFER TO LANDSCAPE PLANS FOR AREAS TO RECEIVE PERMANENT SEED/SOD, TREES, SHRUBS, ETC.
14. THE CONTRACTOR SHALL ADJUST TO GRADE ALL MANHOLE STRUCTURES AND APPURTENANCES THAT FALL WITHIN THE LIMITS OF THIS CONTRACT. THE CONTRACTOR SHALL KEEP ALL SAID EXISTING UTILITIES AND THEIR APPURTENANCES FREE OF DEBRIS AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
15. ALL GRADES WITHIN THE LANDSCAPED AREA SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE NOTED.

LEGEND

— CL —	CONSTRUCTION LIMITS
1019	PROPOSED CONTOURS
1019	EXISTING CONTOURS
XX.XX	PROPOSED SPOT ELEVATION
XX.XX	EXISTING SPOT ELEVATION (MEET & MATCH EXISTING)
— · — · —	GRADE BREAK
▬ ▬ ▬	TIP OUT CURB & GUTTER
—|—|—	EXISTING WATER MAIN
—|—|—	PROPOSED WATER MAIN AND SERVICES
⌖	EXISTING HYDRANT
⌖	PROPOSED HYDRANT
—>—>—	EXISTING SANITARY SEWER PIPE
—>—>—	PROPOSED SANITARY SEWER PIPE
Ⓢ	EXISTING SANITARY SEWER MANHOLE
Ⓢ	PROPOSED SANITARY SEWER MANHOLE
—»—	EXISTING STORM SEWER PIPE
—»—	PROPOSED STORM SEWER PIPE
—RD »—RD »—RD »—	ROOF DRAINS LEADERS
ST ▨	EXISTING STORM SEWER STRUCTURES
◉ ◉ ○	PROPOSED STORM SEWER STRUCTURES
☐	PROPOSED STREET LIGHT
— · · — · · —	EXISTING/PROPOSED UTILITY EASEMENT LINE
X-X ◐	SOIL BORING
EO	EMERGENCY OVERFLOW
TW	GROUND ELEV. AT TOP OF WALL
BW	GROUND ELEV. AT BOTTOM OF WALL
TSW	TOP OF SIDEWALK





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GRADING PLAN

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EROSION CONTROL NOTES

1. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCLUDED WITH THIS PROJECT. FAILURE TO IMPLEMENT THE CONTROLS AND PRACTICES OUTLINED WOULD RESULT IN VIOLATION OF THE ENVIRONMENTAL POLICY ACT AND CLEAN WATER ACT AND IS GROUNDS FOR PENALTIES.
2. ESTABLISH EROSION AND SEDIMENT CONTROL MEASURES AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING THE ENTIRE LENGTH OF CONSTRUCTION. AREAS WHICH ARE SUBJECT TO SEVERE EROSION AND OFF-SITE AREAS WHICH ARE ESPECIALLY VULNERABLE TO DAMAGE FROM EROSION AND/OR SEDIMENTATION ARE TO BE IDENTIFIED AND RECEIVE ADDITIONAL EROSION CONTROL AND SEDIMENT MEASURES AS DIRECTED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE.
3. LOCATIONS OF STABILIZED CONSTRUCTION ENTRANCES INDICATED ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION AND SIZE OF ENTRANCES TO ACCOMMODATE CONSTRUCTION VEHICLES AND ACTIVITIES.
4. COORDINATE ALL LAND DISTURBING ACTIVITIES AND CONDUCT SO AS TO MINIMIZE THE SIZE OF THE AREA TO BE EXPOSED AT ANY ONE TIME AND MINIMIZE THE TIME OF EXPOSURE. MASS CLEARING AND GRADING OF THE ENTIRE SITE SHOULD BE AVOIDED. COORDINATE ALL LAND DISTURBING ACTIVITIES SO AS TO MINIMIZE OFF-SITE SEDIMENTATION DAMAGE. RESTABILIZE DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETED.
5. PERIODICALLY CLEAN OUT AND DISPOSE OF ALL SEDIMENT ONCE THE STORAGE CAPACITY OF THE DRAINAGE FEATURE OR STRUCTURE RECEIVING THE SEDIMENT IS REDUCED BY ONE-HALF. CLEAN OUT AND DISPOSE OF ALL SEDIMENT AT THE COMPLETION OF THE PROJECT. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ANY SEDIMENT OR DEBRIS SHALL BE REMOVED WITHIN 24 HOURS, OR AS OFTEN AS NEEDED TO ENSURE PUBLIC SAFETY.
6. INLET PROTECTION WILL BE INSTALLED AT ALL CATCH BASINS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE APPROPRIATE EROSION CONTROL DEVICES FOR STOCKPILE AREAS, INLETS, AND DITCHES MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION MUST BE COMPLETED WITHIN 24 HOURS OF CONNECTING TO SURFACE WATER.
7. REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AND VERIFY THE CLEANING OUT OF ALL STORM DRAINAGE STRUCTURES, INCLUDING FLUMES, PIPES, AND DITCHES ONCE FINAL STABILIZATION HAS OCCURRED.
8. PIPE OUTLETS NEED TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF GOING ONLINE.
9. WHERE GROUND WATER EXISTS, CONTRACTOR MUST SUBMIT A DEWATERING TREATMENT PLAN TO THE ENGINEER FOR APPROVAL. THE PLAN MUST INCLUDE A DEWATERING SYSTEM PRIOR TO DISCHARGING INTO RECEIVING WATER. IF DEWATERING IS REQUIRED THROUGH DISCHARGING INTO THE CITY OF ROCHESTER'S STORM SEWER SYSTEM, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS OR APPROVALS. THE DEWATERING PLAN MUST ENSURE THAT THE DISCHARGE WATER IS FREE OF SEDIMENT AND TURBID WATER.
10. ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE ADDED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE PERIMETER CONTROL DAY - TO - DAY AT DISTURBED, UNSTABILIZED AREAS WHERE EROSION OR SEDIMENTATION COULD BE A PROBLEM. THE ENGINEER SHALL DIRECT THE CONTRACTOR AS TO WHERE PLACEMENT OF PERIMETER CONTROL WILL BE REQUIRED.
12. THE CONTRACTOR MUST COMPLY WITH ALL NOISE AND DUST CONTROL ORDINANCES OF THE CITY OF ST. LOUIS PARK.
13. THE LANDSCAPE PLAN SHALL GOVERN PERMANENT EROSION OR SEDIMENT CONTROL PROVISION
14. IF CONCRETE WASH WATER IS NOT HAULED IMMEDIATELY OFF-SITE DURING CONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY AND PROVIDE A LOCATION OF A CONCRETE WASHOUT FACILITY THROUGH AN APPROVED SWPPP AMENDMENT.

TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS

ITEM	SCHEDULE
SILT FENCE, PERIMETER CONTROLS	PRIOR TO CONSTRUCTION AND IMMEDIATELY AS DICTATED
INLET PROTECTION	PER STANDARD DETAILS
RAPID STABILIZATION METHOD #2 (SPRING - FALL)	MNDOT TYPE 3884, HYDROMULCH AT 750 LBS PER ACRE WITHIN 7 DAYS OF CEASING WORK
RAPID STABILIZATION METHOD #2 (WINTER)	MNDOT TYPE 3882, TYPE 3 MULCH AT 1.50 TONS PER ACRE, DISC ANCHORED IN PLACE
EROSION CONTROL CATEGORY 20 (2018 VS 2020 MnDot SPEC)	WITHIN 7 DAYS OF CEASING WORK
EROSION & SEDIMENT CONTROL MAINTENANCE	WEEKLY INSPECTION & AFTER EACH RAIN EVENT-CORRECTIVE WORK AS NECESSARY

ALSO SEE INSPECTION AND MAINTENANCE REQUIREMENTS CONTAINED IN GENERAL PROVISIONS OF SWPPP.

LEGEND

⬡	GEOTEXTILE DROP INLET PROTECTION. (12 EACH) (SEE DETAIL 3/C0.10)
▨	ROCK CONSTRUCTION EXIT. (2 EA) (SEE DETAIL 4/C0.10)
➡	FLOW ARROW
—SF—	SILT FENCE. (1,875 LF) (SEE DETAIL 1 & 2/C0.10)
—CL—	CONSTRUCTION LIMITS
—I—I—	EXISTING WATER MAIN
—I—I—	PROPOSED WATER MAIN AND SERVICES
⌖	EXISTING HYDRANT
●	PROPOSED HYDRANT
—>—>—	EXISTING SANITARY SEWER PIPE
—>—>—	PROPOSED SANITARY SEWER PIPE
Ⓢ	EXISTING SANITARY SEWER MANHOLE
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◐ ◧ ○	PROPOSED STORM SEWER STRUCTURES
□	PROPOSED STREET LIGHT
— · · — · · —	EXISTING/PROPOSED UTILITY EASEMENT LINE
X-X ◕	SOIL BORING

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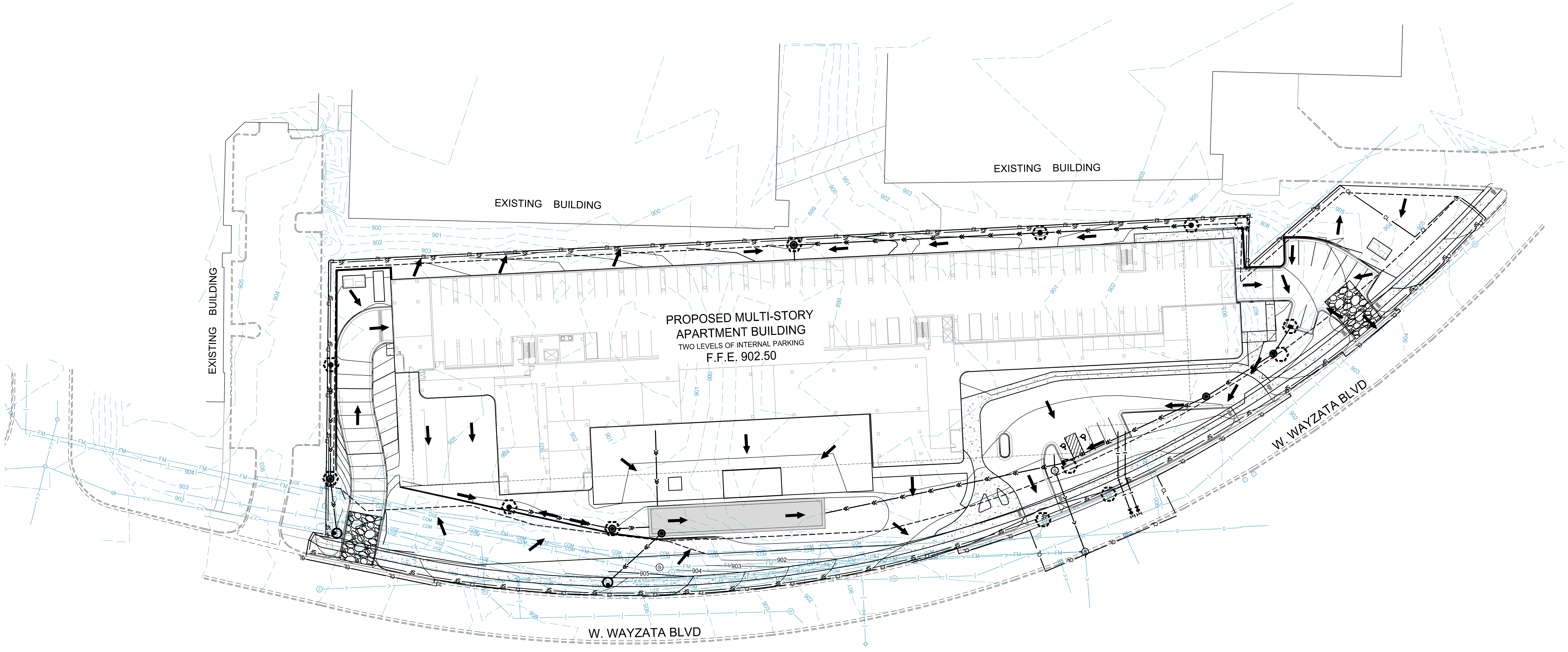

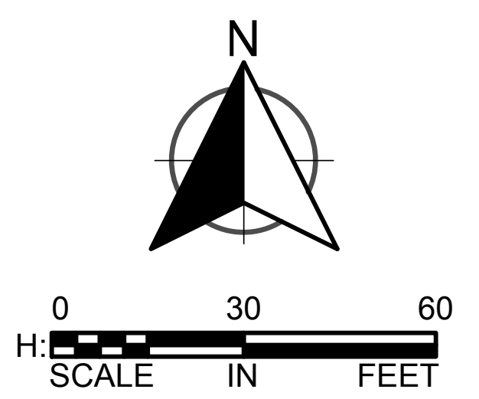

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EROSION CONTROL

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT NAME: 9920 WAYZATA BLVD
PROJECT NUMBER: WSB 018843-000
PROJECT LOCATION: STREET: WAYZATA BLVD, CITY: ST. LOUIS PARK, COUNTY: HENNEPIN
STATE: MINNESOTA, ZIP: 55426, LATITUDE/LONGITUDE: 44.9740/ -93.4044

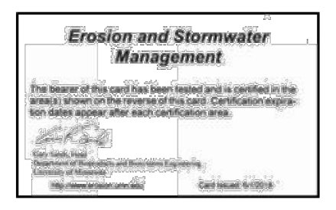
THE PLANNED SCOPE OF THE PROJECT INCLUDES:
THE PROJECT INVOLVES DEMOLITION, GRADING, UNDERGROUND UTILITIES AND CONSTRUCTION OF A MULTI-FAMILY RESIDENTIAL FACILITY WITH ASSOCIATED INFRASTRUCTURE LOCATED IN WAYZATA, MINNESOTA.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE ENGINEER)	
CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
TEMPORARY SEDIMENT CONTROL BMPS	OCTOBER 2021
DEMOLITION & REMOVALS	OCTOBER 2021 - NOVEMBER 2021
GRADING & UTILITY WORK	OCTOBER 2021 - JUNE 2022
BUILDING CONSTRUCTION	NOVEMBER 2021 - OCTOBER 2022
CURB & PAVEMENT	SEPTEMBER 2022
FINAL STABILIZATION / LANDSCAPING	OCTOBER 2022

PROJECT PERSONNEL AND TRAINING

SWPPP DEVELOPER:
WSB (MICHAEL RASK)
3701 40TH AVENUE NORTHWEST, SUITE 100
ROCHESTER, MN 55901
507.218.3386/MRASK@WSBENG.COM


UNIVERSITY OF MINNESOTA
Michael Rask
Construction Site Management (May 31 2021)
Design of Construction SWPPP (May 31 2021)


Erosion and Stormwater Management
The bearer of this card has been tested and is certified in the area(s) shown on the reverse of this card. Certification expiration dates appear after each certification area.

CONTRACTOR TO PROVIDE CERTIFICATION OF EROSION CONTROL OFFICER AND ANY OTHER CREW MEMBERS WHO WILL WORK ON THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

CHAIN OF RESPONSIBILITY

SLP PARK VENTURES LLC AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NPDES CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

NAME	COMPANY	TITLE	PHONE

CONTRACTOR TO COMPLETE

AGENCY CONTACTS

ORGANIZATION	CONTACT NAME	PHONE
MPCA (EMERGENCY) 24 HOUR	STATE DUTY OFFICER	1-800-422-0798
MPCA	BRIAN GREEN	507-206-2610
DNR	N/A	N/A
ACOE	N/A	N/A
BASSETT CREEK WMO	LAURA JESTER	952-270-1990

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, PROJECT MANUAL, MNDOT SPEC BOOK, OR ON FILE WITH THE PROJECT OWNER.

DESCRIPTION	LOCATION
TEMPORARY/PERMANENT EROSION CONTROL MEASURES	SHEET NO. C0.08
DIRECTION OF FLOW	SHEET NO. C0.08
CONSTRUCTION NOTES & STANDARD PLATES	SHEET NO. C0.10
DRAINAGE PLAN & CONSTRUCTION PLAN	SHEET NO. C0.07
BMP TABULATION	SHEET NO. C0.08
STORMWATER CALCULATIONS	HYDRAULIC REPORT. AVAILABLE UPON REQUEST

RECEIVING WATERS

A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MPCA SEARCH ENGINE ON 01/06/2021. BASED ON THIS REVIEW, THE FOLLOWING SPECIAL/IMPAIRED WATERS (WITH CONSTRUCTION RELATED IMPAIRMENTS) ARE LOCATED WITHIN ONE MILE OF, AND DOWNSTREAM OF, ANY PROJECT DISCHARGE POINTS. PARTS 23.9 & 23.10 OF THE NPDES PERMIT APPLY.

WATERBODY	IMPAIRMENT(S)
BASSETT CREEK	FECAL COLIFORM, CHLORIDE, FISH BIOASSESSMENTS

AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

IN ADDITION TO THE LIST OF SPECIAL AND IMPAIRED WATERS, THERE IS A MAP OF KNOWN NATURAL RESOURCES ON THE LAST PAGE OF THE SWPPP NARRATIVE. AREAS OF ENVIRONMENTAL SENSITIVITY ARE ALSO CALLED OUT ON THE PLAN SHEETS.

SOIL TYPES

A PROJECT WIDE GEOTECHNICAL REPORT WAS COMPLETED DURING THE DESIGN PHASE. FILL MATERIALS IS PREDOMINATING ALONG MOST OF THE SITE AND IS UNDERLAIN BY SILTS, SANDS AND CLAYS. ADDITIONAL SOIL INFORMATION CAN BE FOUND IN THE GEOTECHNICAL REPORT, LOCATED WITHIN THE PROJECT SPECIFICATIONS. SOIL CLASSIFICATIONS FOR HIGHLY ERODIBLE LAND (HEL), POTENTIALLY HIGHLY ERODIBLE LAND (PHEL), AND NOT HIGHLY ERODIBLE LAND (NHEL) SOILS CAN BE FOUND ON *FIGURE 1. SWPPP RESOURCE MAP.*

NATIVE TOPSOIL WILL BE STRIPPED; IF MATERIAL NEEDS TO BE STOCKPILED, APPROPRIATE ACTION WILL TAKE PLACE TO ENSURE THE STOCKPILES HAVE ALL PROPER BMPS IN PLACE ACCORDING TO THIS SWPPP AND THE NPDES PERMIT.

ENVIRONMENTAL REVIEW

NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT.

WETLANDS: THERE ARE NO WETLAND IMPACTS PROPOSED WITH THIS PROJECT.

DRINKING WATER/WELLS: ACCORDING TO THE MDH, THE PROJECT IS LOCATED WITH A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) WITH MODERATE VULNERABILITY; WITHIN THE SAINT LOUIS PARK NW WELLHEAD PROTECTION AREA; AND WITHIN AN EMERGENCY RESPONSE AREA. OR NEAR ANY WELLHEAD PROTECTION AREAS.

CONTAMINATED PROPERTIES: THE MPCA'S "WHAT'S IN MY NEIGHBORHOOD" DATABASE (PCA-GIS02.PCA.STATE.MN.US/WIMN2/INDEX.HTML) WAS REVIEWED ON 01/06/2021. THE RESULTS OF THIS REVIEW SHOW TWO KNOWN LOCATIONS CONTAINING HAZARDOUS WASTE ADJACENT TO THE PROJECT LOCATION. METROPOINT- CUSHMAN WAKEFIELD (44.97443, -93.40230) HAS BEEN IDENTIFIED AS AN INACTIVE HAZARDOUS WASTE SITE (ID #: MND985761501). IN ADDITION, GENOA A QOL CO LLC - ST LOUIS PARK (44.97444, -93.40615) HAS BEEN IDENTIFIED AS AN ACTIVE HAZARDOUS WASTE SITE (ID #: MNS000194811). REFER TO MNDOT SPEC 1717.1.A. FOR POTENTIAL INDICATORS OF CONTAMINATED MATERIALS AND REGULATED WASTE. IF CONTAMINATED MATERIAL, CONTAMINATED WATER, AND/OR REGULATED MATERIALS ARE FOUND, CREWS ARE TO STOP WORK IMMEDIATELY FOR FURTHER INVESTIGATION/TESTING.

FLOOD CONTINGENCY PLAN: PROJECT ACTIVITIES ARE NOT LOCATED WITHIN THE 100-YEAR FLOODPLAIN OR FLOODWAY; HOWEVER, THE PROJECT ENGINEER (AT THEIR DISCRETION) MAY REQUIRE A PREVENTATIVE FLOOD CONTINGENCY PLAN FOR SPECIFIC PROJECT ACTIVITIES AND AREAS IF SEASONAL PRECIPITATION POSSES A POTENTIAL RISK OF FLOODING WORK AREAS WITHIN THE PROJECT LIMITS. THIS PLAN SHALL BE SUBMITTED BY THE OPERATOR TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED WORK AND/OR DURING ACTIVE WORK WITHIN THE AREA OF POTENTIAL RISK OF FLOODING. NO WORK CAN COMMENCE IN THE AREA UNTIL WRITTEN APPROVAL HAS BEEN GRANTED BY THE PROJECT ENGINEER.

LAND FEATURE CHANGES

TOTAL AREA TO BE DISTURBED = 3.51 ACRES
IMPERVIOUS AREA: PRE-CONSTRUCTION = 2.30 ACRES/POST-CONSTRUCTION = 2.26 ACRES
NET INCREASE OF IMPERVIOUS AREA = -0.04 ACRES

LONG TERM MAINTENANCE AND OPERATION:
THE NPDES PERMANENT WATER QUALITY VOLUME (PART 15.1) FROM THE NET NEW IMPERVIOUS SURFACES OF THE PROJECT IS NOT TRIGGERED FOR THIS PROJECT AS A NET REDUCTION IN IMPERVIOUS SURFACE IS PROPOSED; HOWEVER, PERMANENT STORMWATER MANAGEMENT WILL BE ADDRESSED USING AN UNDERGROUND STORMWATER STORAGE FACILITY. HYDROLOGIC AND WATER QUALITY MODELING DATA IS AVAILABLE UPON REQUEST.

STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
EXPOSED AREAS	IMMEDIATELY AND NO LATER THAN 7 DAYS OF BEING UNWORKED	1, 4, 5
LAST 200 LINEAL FEET OF DRAINAGE DITCH/SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER/PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
STOCKPILES	7 DAYS	1

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE MULCHED OR BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
5. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES, AND BLANKETS.

SITE INSPECTION AND MAINTENANCE

THE EROSION CONTROL OFFICER IS TO INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE AT VARIOUS MILE INTERVALS ALONG THE ALIGNMENT. INSPECT ALL TEMPORARY AND PERMANENT PROJECT BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF-SITE SEDIMENT ACCUMULATION. ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE SWPPP. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

A. DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS;
B. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
C. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); INCLUDING DOCUMENTATION/PHOTOS OF IMPLEMENTED BMPS INTENDED TO CORRECT A PROBLEM BUT FAILED.
D. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS;
E. DOCUMENTATION OF CHANGES MADE TO THE SWPPP.

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
C. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. STABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY.
D. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN ONE (1) CALENDAR DAY OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
E. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOT HAS BEEN SUBMITTED TO THE MPCA.

CONSTRUCTION ACTIVITY REQUIREMENTS: EROSION/SEDIMENT CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

1. AMEND THE SWPPP AND DOCUMENT ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR STAGING/STOCKPILE MANAGEMENT AREAS, CONCRETE MANAGEMENT, FUGITIVE DUST CONTROL PLAN, SPILL CONTAINMENT PLAN, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, ANY ADDITIONAL PLANS LISTED IN THE PROJECT SPECIFICATIONS, AND AS REQUIRED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR THE PROJECT ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
3. THERE IS NO CONSTRUCTION PHASING OR STAGING DEFINED BY THE OWNER FOR THIS PROJECT. THE SCHEDULE FOR INSTALLING TEMPORARY BMPS SHALL BE INCORPORATED INTO THE OPERATOR'S WEEKLY SCHEDULE FOR EACH CONSTRUCTION STAGE AND PRESENTED TO THE OWNER'S REPRESENTATIVE.
4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED AND WETLANDS (EVEN AREAS THAT ARE PERMITTED FOR CONSTRUCTION) PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS, OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.
6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
7. DIRECT DISCHARGE FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.
8. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100-FOOT INTERVALS.
9. ALL STOCKPILES MUST HAVE PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE.
10. STEEP SLOPES MAY BE TEMPORARILY CREATED DURING GRADING OPERATIONS. STABILIZATION OF STEEP SLOPES (3:1 OR GREATER) SHALL BE PROPERLY CAT-TRACKED AND STABILIZED PER THE EROSION CONTROL PLAN. LONG SLOPES CAN BE BROKEN UP WITH SEDIMENT CONTROL LOGS IF EROSION IS EVIDENT.
11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
12. ALL STORM DRAIN INLETS, THAT RECEIVE PROJECT STORMWATER, MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED AND THE PERMITTEE(S) HAS RECEIVED WRITTEN CORRESPONDENCE FROM THE JURISDICTIONAL AUTHORITY VERIFYING THE NEED FOR REMOVAL. WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP.
13. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (30% OR GREATER).
14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS/TRAPS TO THE DESIGN CAPACITY AFTER COMPLETING ALL UP-GRADIENT LAND DISTURBING ACTIVITY. USE A SKIMMER DEVICE FOR BASIN DRAINING.
15. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
16. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER FOR APPROVAL 7 DAYS PRIOR TO UNDERTAKING THESE ACTIVITIES. DEWATERING PLAN MUST INCLUDE BMP'S TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS TO DOWNSTREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE ANY SPECIFIC CHEMICAL TREATMENTS (FLOC, POLYMERS, ETC.) THAT WILL BE USED. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY PERMIT NECESSARY FOR THESE ACTIVITIES; THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE SWPPP.

TEMPORARY & PERMANENT EROSION CONTROL BMPS

SEED MIX: SEED MIX SHALL BE USED IN CONSTRUCTION AND REVEGETATION PROJECTS IN ORDER TO ENHANCE SOIL NUTRIENT AVAILABILITY AND BIOLOGICAL SOIL STRUCTURE, ENCOURAGE NATIVE PLAN SUCCESSION, REDUCE EROSION, AND DISCOURAGE INVASIVE PLANT SPECIES. INOCULATION OF SOILS WITH MYCORRHIZAL FUNGI OR THE PRESENCE OF PRE-EXISTING SOIL MICROBES IS ESSENTIAL FOR THE STABILIZATION OF ADVERSE SOILS, ESTABLISHMENT OF NATIVE GRASSES, AND THE EXCLUSION OF NON-NATIVE "ANNUALS" AND NOXIOUS WEEDS.

EROSION CONTROL BLANKET: EROSION CONTROL BLANKETS (ECBS) ARE A SOIL STABILIZATION (EROSION CONTROL) BMP, INTENDED TO PROTECT DISTURBED SOIL SURFACES FROM RAINDROP IMPACT EROSION. ECBS ARE CARPET-LIKE MATS, INSTALLED OVER AND ANCHORED TO THE PROPERLY PREPARED SOIL SURFACES. PROPERLY SELECTED AND INSTALLED, ECBS CAN MIMIC THE BENEFICIAL EFFECTS OF VEGETATIVE COVER THEREBY REDUCING EROSION RATES BY OVER 90%. ECBS ALSO PROTECT SEEDS AND PROVIDE A BENEFICIAL ENVIRONMENT FOR VEGETATION TO BECOME ESTABLISHED. CONTRACTOR SHALL VERIFY DURING REGULAR INSPECTIONS THAT NO GULLIES, RILLS, OR SCOUR HOLES HAVE FORMED UNDER EROSION CONTROL BLANKETS AND MATS AND CORRECT ALL ERODED AREAS WITHIN 7 or 14 DAYS. ALL REPAIRS MUST BE COMPLETED WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

STRAW MULCHING: DISTURBED SOIL AREAS SHALL BE PROTECTED WITH STRAW MULCH. MULCHING IS THE APPLICATION OF A PROTECTIVE LAYER OF STRAW OR OTHER SUITABLE MATERIAL TO THE SOIL SURFACE. STRAW MULCH SHALL BE USED IN CONJUNCTION WITH SEEDING AND HYDRO-SEEDING FOR ESTABLISHMENT OF VEGETATION. STRAW MULCH MUST BE SECURED TO THE GROUND USING DISKING OR AN OVERSPRAY OF AN HECP. MULCHING IS COMMONLY USED AS A TEMPORARY MEASURE TO PROTECT BARE OR DISTURBED SOIL AREAS THAT HAVE NOT BEEN SEEDED, UNTIL NATIVE VEGETATION RE-GROWS. CERTIFIED WEED-FREE MULCH MUST BE USED WHEN USING NATIVE SEED MIXES OR WHEN WORKING NEAR ENVIRONMENTALLY SENSITIVE AREAS.

HYDRAULIC MATRICES: HYDRAULIC MATRICES ARE EROSION CONTROL PRODUCTS THAT ARE USED TO STABILIZE EXPOSED SOILS. THESE MATRICES ARE APPLIED IN A SLURRY, PRODUCED BY MIXING FIBER, WATER AND A BINDING AGENT TOGETHER IN A MECHANICAL HYDRO-SEEDER. WOOD FIBER IS WIDELY USED BUT OTHER FIBERS CAN INCLUDE PAPER, STRAW, COIR, CORN, ETC. THE EFFECTIVENESS OF THESE HYDRAULIC MATRICES ARE DEPENDENT ON:

- PROPER SOIL PREPARATION
- APPLICATION RATES (DEPENDENT ON THE MANUFACTURERS RECOMMENDATIONS)
- THE TYPE OF FIBERS USED
- THE TYPE OF BOND AGENT(S) ADDED

THESE HYDRAULIC MATRICES ARE CLASSIFIED IN THE MNDOT SPEC BOOK AND APPROVED PRODUCTS LIST, DEPENDING ON THE PRODUCT CHARACTERISTICS, STRENGTH, AND LONGGEVITY. HYDRAULIC MATRICES USED INCLUDE: ORGANIC FIBER MATRIX, HYDRAULIC MULCH MATRIX, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, AND FIBER REINFORCED MATRIX.

SOD TYPE LAWN: SOD IS A PERMANENT EROSION PREVENTION BMP THAT PROVIDES INSTANTANEOUS SOIL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SOD AS OUTLINED IN THE PROJECT SPECIFICATIONS.

ENERGY DISSIPATER: AN ENERGY DISSIPATER IS A STRUCTURE DESIGNED TO CONTROL EROSION AT THE OUTLET OF A CHANNEL OR CONDUIT.

RAPID STABILIZATION METHOD #2: THIS METHOD SHALL CONSIST OF TYPE 3 MULCH (1.5 TON PER ACRE) OR 3884 TYPE STABILIZED FIBER MATRIX (750 LBS PER ACRE) BE SPREAD IN AREAS THAT HAVE BEEN UNWORKED FOR 7 DAYS. THIS METHOD SHALL BE USED ON SLOPES LESS THAN 3:1.

TEMPORARY & PERMANENT SEDIMENT CONTROL BMPS

SEDIMENT CONTROL LOGS: SEDIMENT CONTROL LOGS ARE MANUFACTURED FROM STRAW, WOOD EXCELSIOR, COCONUT FIBERS, AND/OR OTHER MATERIALS THAT ARE BOUND WITH POLYPROPYLENE OR BIODEGRADABLE NETTING INTO TIGHT TUBULAR ROLLS. FIBER ROLLS CONTROL THREE TYPES OF EROSIONAL PROCESSES; EROSION CONTROL, RUN OFF CONTROL, AND SEDIMENT CONTROL. SEDIMENT CONTROL LOGS CAN BE USED FOR THE FOLLOWING:

- SLOPE INTERRUPTERS TO REDUCE EROSION ON NEWLY CONSTRUCTED SLOPES
- TEMPORARY DITCH CHECKS TO REDUCE RUNOFF VELOCITIES IN DRAINAGE CHANNELS
- SEDIMENT CONTROL BARRIERS FOR SMALL DISTURBED SOIL AREAS SUCH AS STOCKPILES, DISCRETE SLOPES, OR INDIVIDUAL LOTS

MACHINE SLICED SILT FENCE: A SILT FENCE IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC ENTRENCHED INTO THE SOIL AND ATTACHED TO SUPPORTING POSTS. SILT FENCE IS INTENDED TO BE INSTALLED WHERE SEDIMENT-LADEN WATER CAN POND, THUS ALLOWING THE SEDIMENT TO FALL OUT OF SUSPENSION AND SEPARATE FROM THE RUNOFF. SILT FENCE INSTALLED WITH A TRENCHER OR BY SLICING IS THE MOST EFFECTIVE INSTALLATION METHOD TO ENSURE AGAINST COMMON SILT FENCE FAILURES. THE BMP WILL BE CLEANED OUT OR REPLACED WHEN THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE FENCE.

STABILIZED CONSTRUCTION EXIT: TEMPORARY CONSTRUCTION EXITS ARE CONSTRUCTED AT THE EGRESS POINT FROM THE CONSTRUCTION AREA ONTO A PAVED ROAD. A STABILIZED CONSTRUCTION EXIT IS A TRACKING CONTROL BMP INTENDED TO PREVENT TRACKING OF SOIL FROM THE CONSTRUCTION SITE BY EQUIPMENT AND VEHICLES. THE EXITS ARE CONSTRUCTED OF LARGE ANGULAR ROCK, STEEL RIBS (RUMBLE STRIPS), OR TRACK PADS INTENDED TO KNOCK THE MUD OFF THE TIRES BEFORE TRAVELING ONTO THE ROADWAY.

DUST CONTROL: OPERATOR WILL COMPLY WITH STATE RULE 7011.0150 ON DUST PREVENTION REQUIREMENTS. DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

POLLUTION PREVENTION MANAGEMENT

POTENTIAL SOURCES OF POLLUTANTS FROM CONSTRUCTION ACTIVITIES INCLUDE, BUT NOT LIMITED TO:

1. SEDIMENT AND FUGITIVE DUST GENERATED FROM CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, REMOVALS/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT CUTTING, STREET CONSTRUCTION.
2. BASIC/ACIDIC PH LEVELS FROM CURB AND GUTTER, MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAY APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRY PAVEMENT CUTTING, MASONRY WASHOUT/CLEANOUT.
3. EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING.
4. HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING.

OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE NPDES-CSW PERMIT, PART 12.1. STORAGE AND DISPOSAL OF CONSTRUCTION AND HAZARDOUS WASTES MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

A. POSITION AND STAKE DOWN ALL PORTABLE TOILETS SO THEY CANNOT BE TIPPED OR KNOCKED OVER. SUPPLY ADEQUATE SECONDARY CONTAINMENT.
B. SECONDARY CONTAINMENT IS NEEDED AROUND ALL STATIONARY EQUIPMENT (GENERATORS, PUMPS, LIGHT PLANTS, ETC.) PROVIDE CONTAINMENT FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE.
C. NO ENGINE DEGREASING IS ALLOWED ON SITE.
D. VEHICLE AND EQUIPMENT WASHING TO OCCUR IN DESIGNATED AREA AS DETERMINED BY THE CONTRACTOR SUBMITTAL OF A MANAGEMENT PLAN FOR THESE ACTIVITIES.
E. PROPERLY CLEAN UP AND REPORT ALL SPILLS AS REQUIRED BY THE MPCA AND MNDOT SPECIFICATIONS.
F. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.
G. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.
   STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
H. SLURRY FROM CONCRETE OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF.
I. A SIGN MUST BE INSTALLED ADJACENT TO EACH CONCRETE WASHOUT FACILITY.
J. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.
K. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

FINAL STABILIZATION

FINAL STABILIZATION IS ACHIEVED WHEN NPDES CGP PARTS 13.1-13.7 (AS APPLICABLE) ARE COMPLETED PRIOR TO SUBMISSION OF THE NOTICE OF TERMINATION (NOT) TO MPCA.

1. ALL AREAS MUST BE STABILIZED WITH A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%.
2. ALL TEMPORARY SEDIMENT CONTROL BMP MEASURES MUST BE REMOVED PRIOR TO SUBMITTING PERMIT NOT.

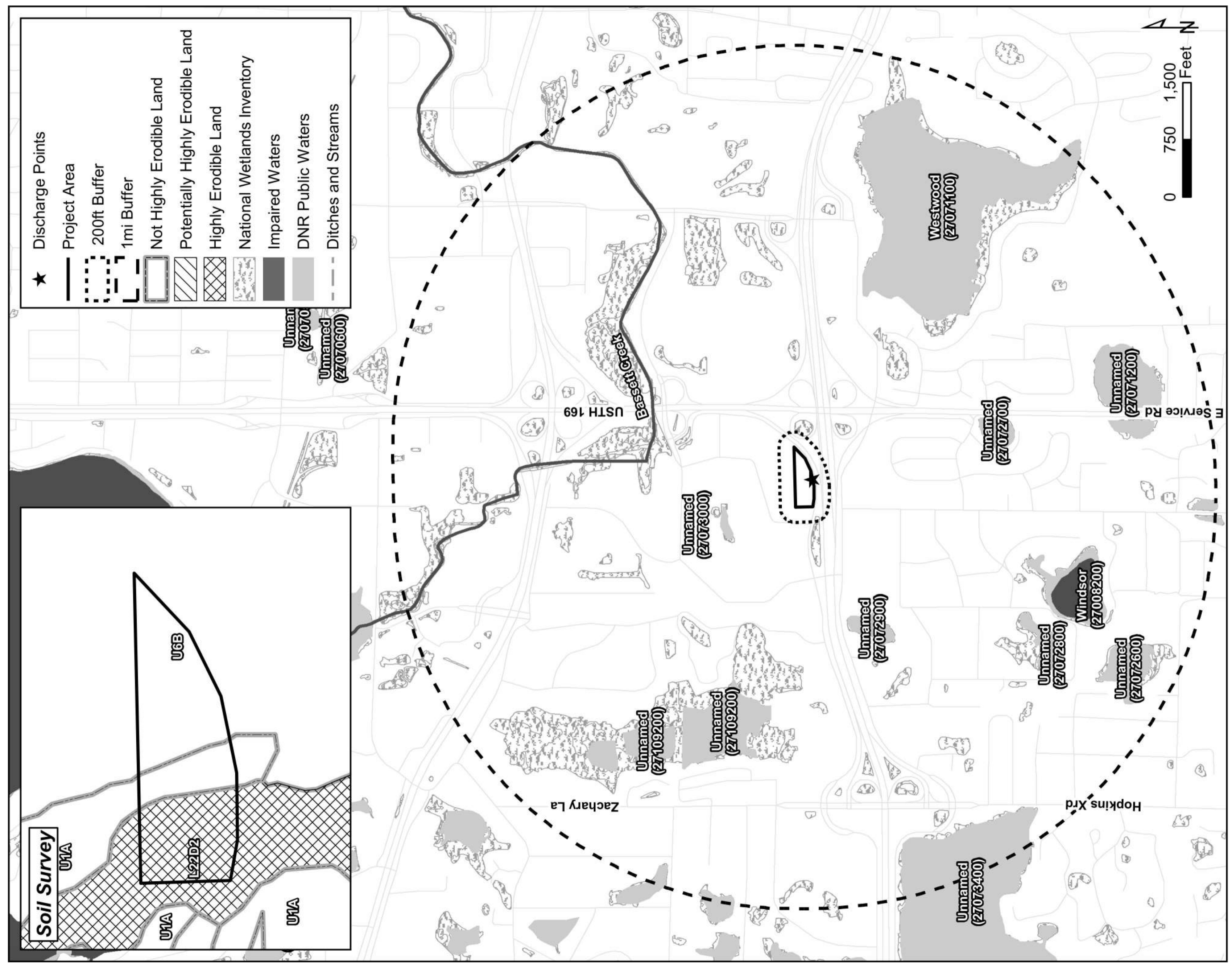


Figure 1. SWPPP Resource Map

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PUD APPLICATION
-
SEP 07 2021

ORIGINAL ISSUE:

REVISIONS:

No.	Description	Date

018843-000
WSB PROJECT NUMBER

PJM
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SWPPP

9920 Wayzata Blvd

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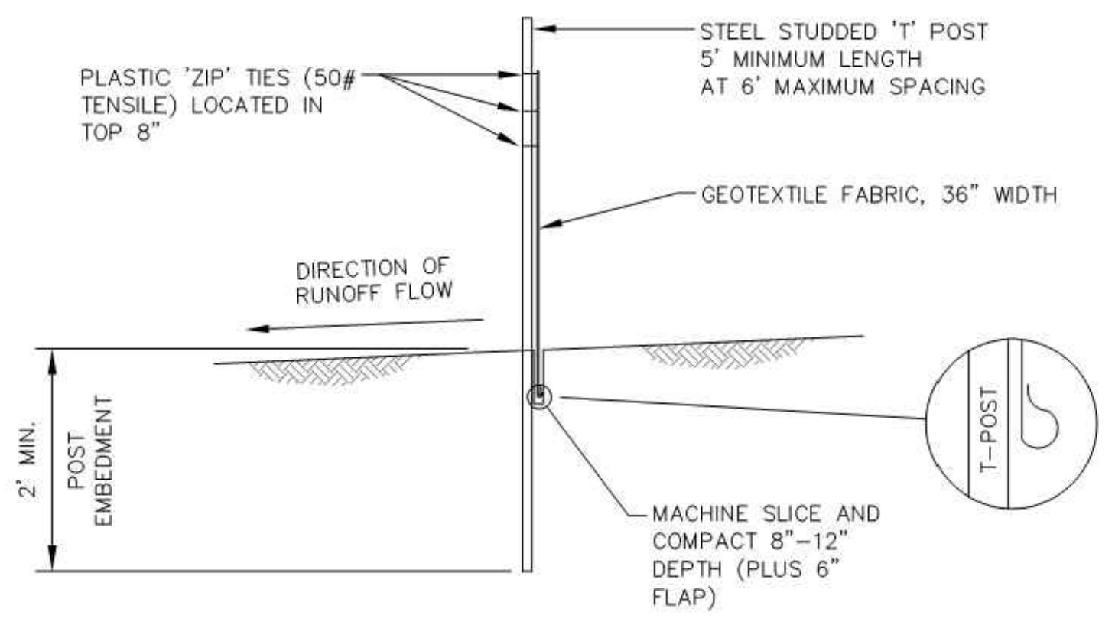

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		PUBLISH DATE	PLATE NO.
St. Louis Park MINNESOTA	SILT FENCE MACHINE SLICED	10/26/18	EC-1

SILT FENCE MACHINE SLICED

1
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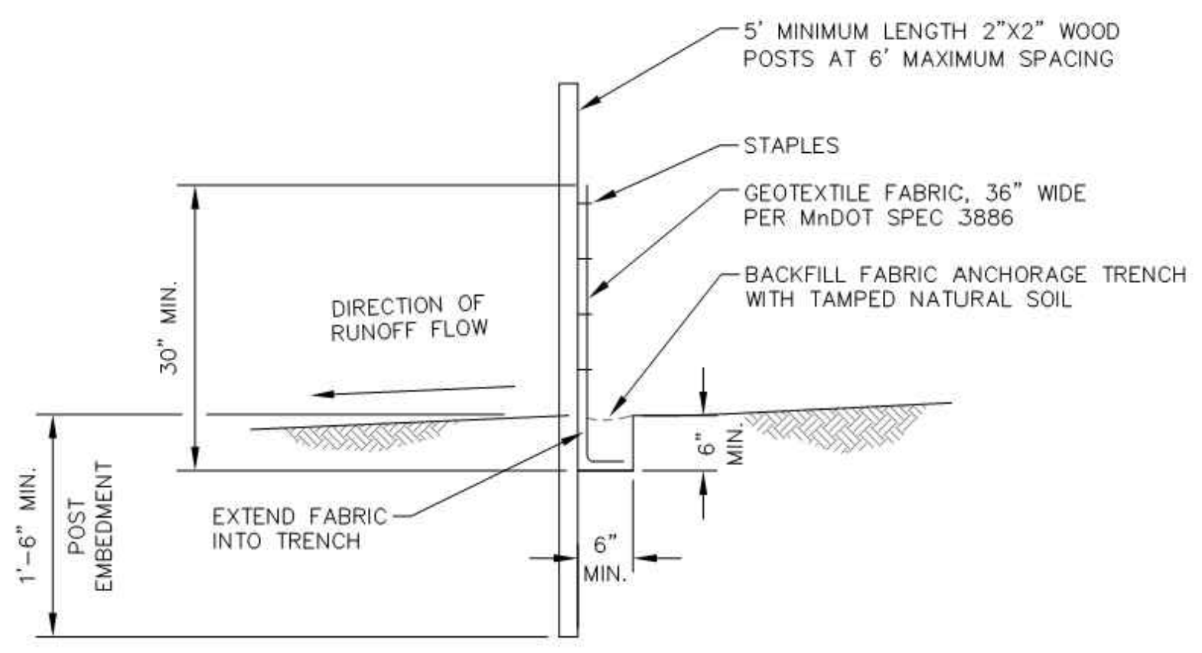

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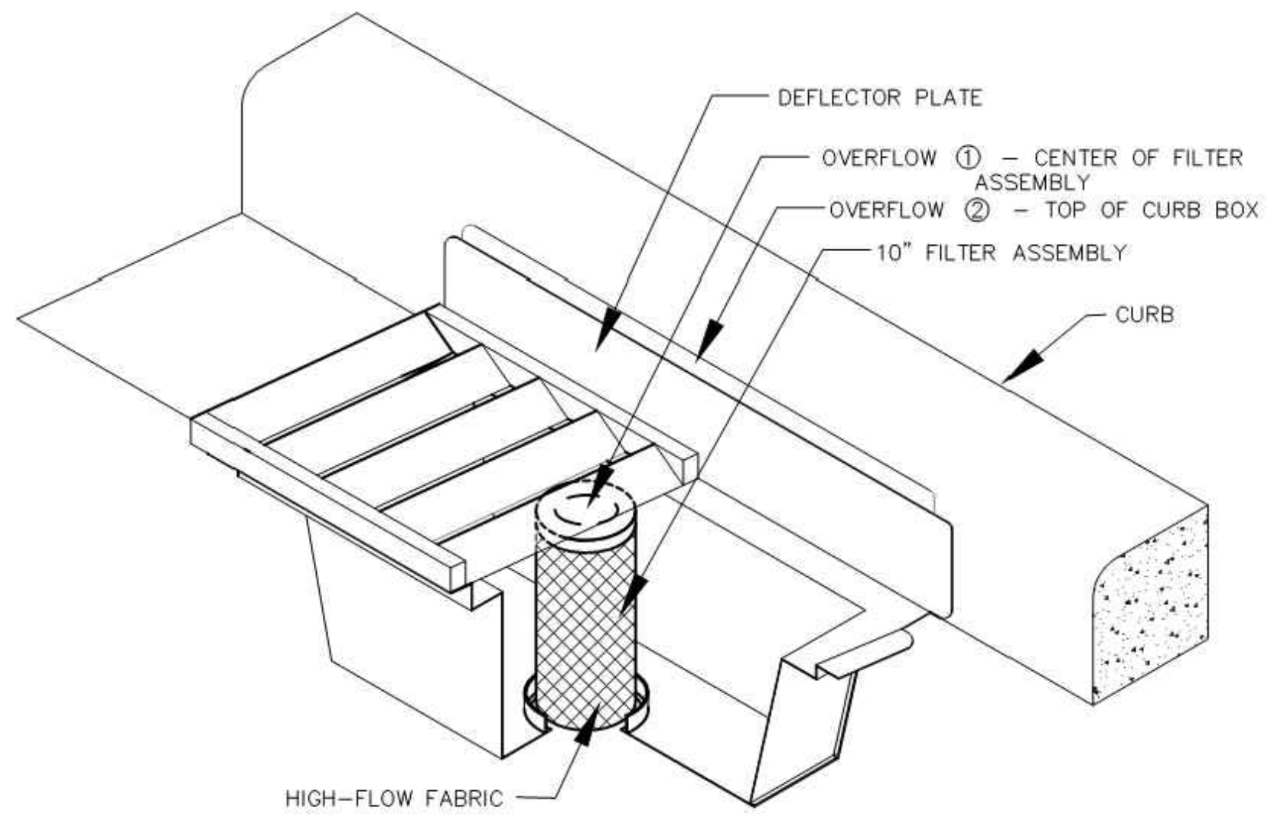
		PUBLISH DATE	PLATE NO.
St. Louis Park MINNESOTA	SILT FENCE PREASSEMBLED	10/26/18	EC-2

SILT FENCE PREASSEMLED

2
C0.10 SCALE: NOT TO SCALE



NOTES:

1. AS PART OF SWPPP REQUIREMENTS, THE CONTRACTOR SHALL INSPECT ALL INLET PROTECTION AT DEFINED INTERVALS, AS WELL AS AFTER QUALIFYING RAIN EVENTS. INLET PROTECTION SHALL BE MAINTAINED PER MANUFACTURES INSTRUCTIONS AND IN ACCORDANCE WITH ALL SWPPP REQUIREMENTS AND/OR AT THE DIRECTION OF THE ENGINEER.
2. INLET PROTECTION DEVICE MUST BE SPECIFIC FOR CURB TYPE AND FIT PROPERLY. THIS WILL ENSURE WATER AND SEDIMENT DO NOT BYPASS THE DEVICE.
3. AN ATTACHED BACKSTOP IS REQUIRED FOR INLET PROTECTION. ROCK LOGS OR OTHER DEVICES ARE NOT ALLOWED.
4. ALL LABOR, MATERIALS, AND EQUIPMENT TO FURNISH, INSTALL, MAINTAIN, REMOVE DEBRIS AND REMOVE DEVICE SHALL BE PAID PER EACH UNIT.

		PUBLISH DATE	PLATE NO.
St. Louis Park MINNESOTA	CATCH BASIN METAL INLET PROTECTION	3/18/20	EC-6

CATCH BASIN METAL INLET PROTECTION

3
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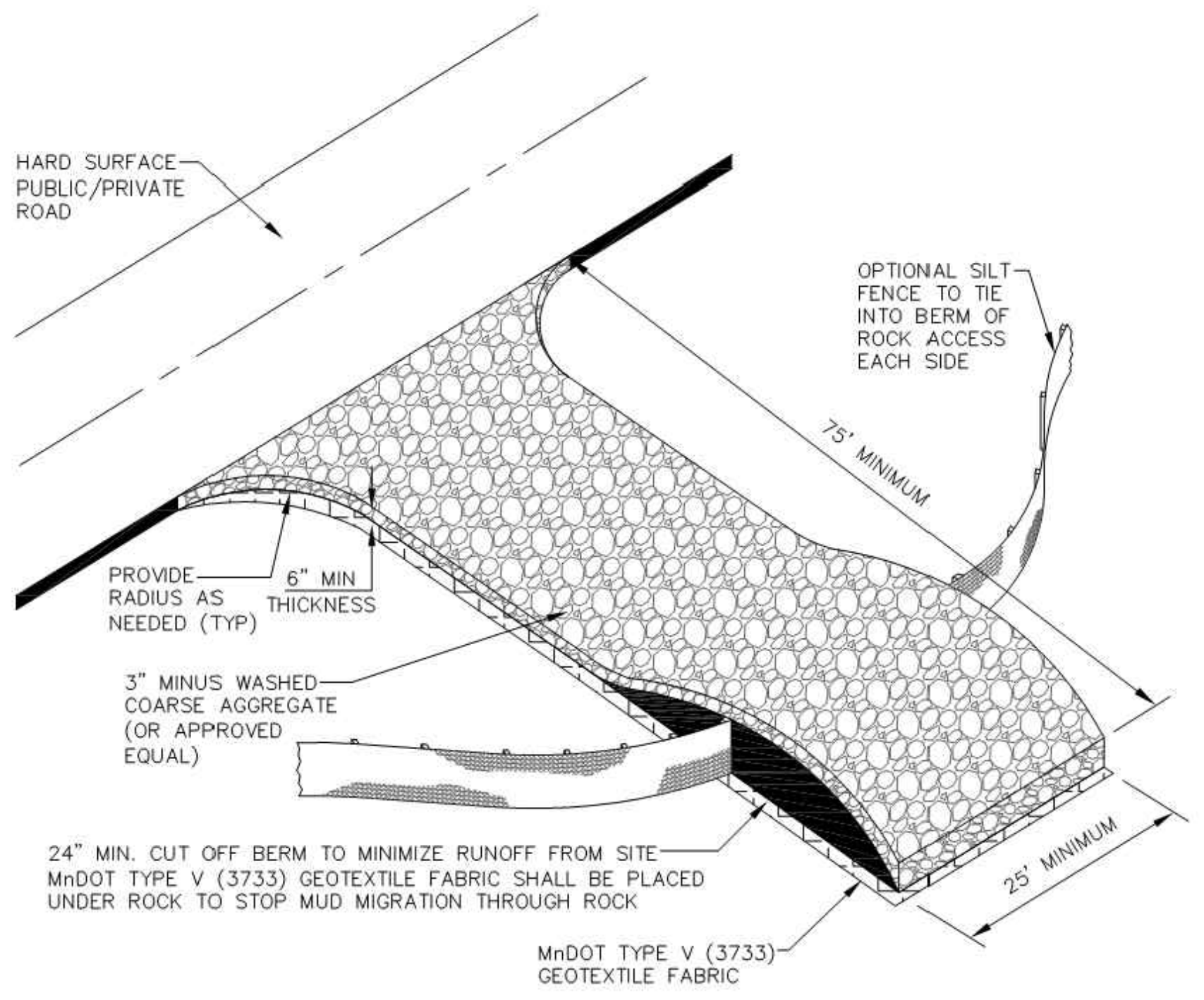

		PUBLISH DATE	PLATE NO.
St. Louis Park MINNESOTA	CONSTRUCTION ENTRANCE	10/26/18	EC-5

CONSTRUCTION ENTRANCE

4
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UTILITY PLAN DETAIL NOTES

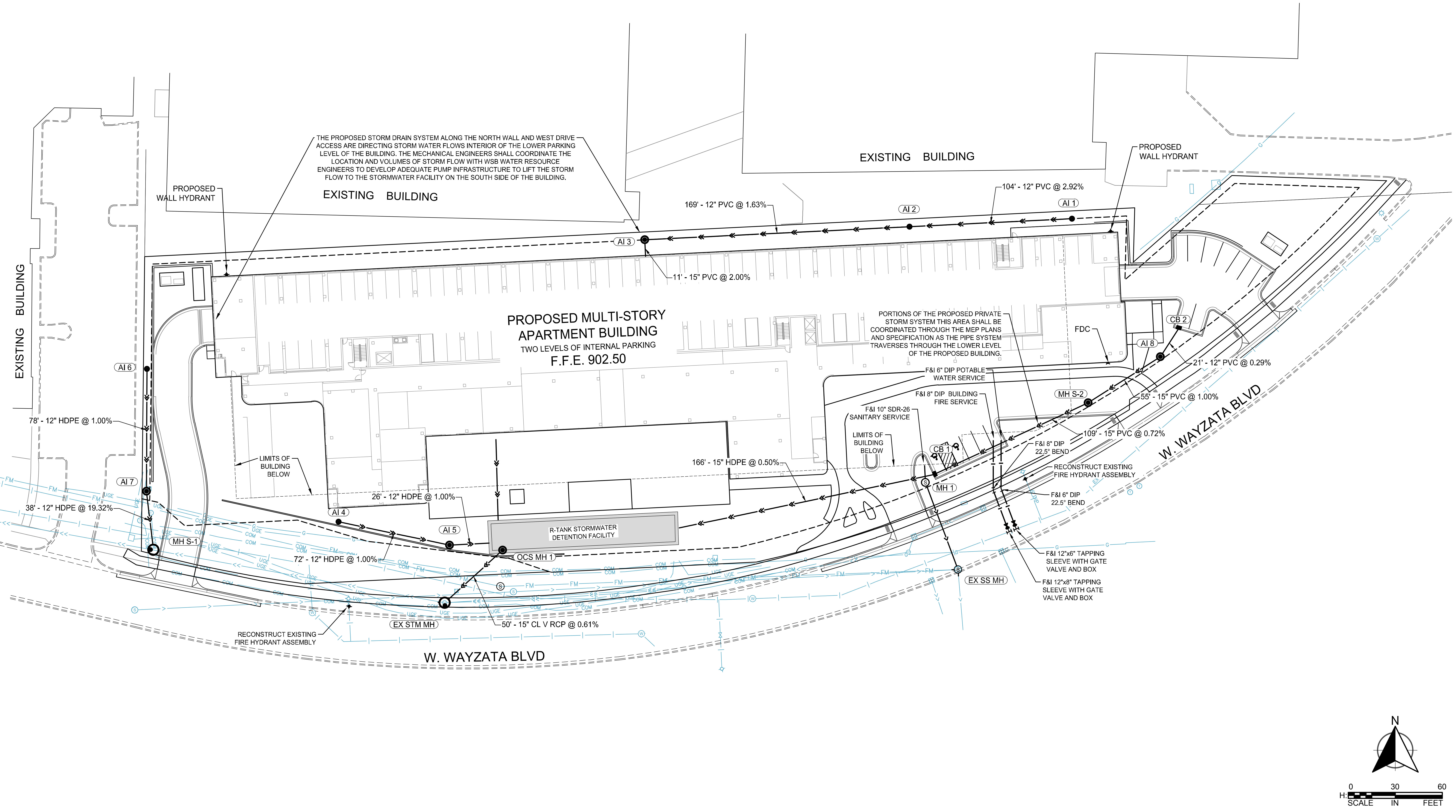
1. CONTRACTOR SHALL INSTALL THE SANITARY SEWER MANHOLES & SERVICES PER CITY DETAILS. (SEE DETAILS 1, 2, 3, & 4/C0.14)
2. CONTRACTOR SHALL DISCONNECT EXISTING SANITARY SERVICES PER CITY DETAIL. (SEE DETAIL 5/C0.14)
3. CONTRACTOR SHALL RECONSTRUCT THE EXISTING SANITARY SEWER MANHOLE PER CITY DETAIL. (SEE DETAIL 4/C0.14)
4. CONTRACTOR SHALL INSTALL THE WATERMAIN, HYDRANT, GATE VALVES, FITTINGS, INSULATION & WATER SERVICES PER CITY DETAILS. (SEE DETAIL 6, 7, 8/C0.14 & 1/C0.15)
5. CONTRACTOR SHALL INSTALL THE TAPPING SLEEVE AND VALVE PER CITY DETAIL. (SEE DETAIL 2/C0.16)
6. CONTRACTOR SHALL INSTALL THE THRUST BLOCKING PER CITY DETAIL. (SEE DETAIL 4/C0.16)
7. CONTRACTOR SHALL DISCONNECT EXISTING WATER SERVICES PER CITY DETAIL.(SEE DETAIL 2/C0.15)
8. CONTRACTOR SHALL INSTALL THE STORM SEWER STRUCTURES PER CITY DETAILS. (SEE DETAILS 3, 4, 5 & 6/C0.15, 2/C0.15, 3/C0.15, 4/C0.15).
9. R-TANK UNDERGROUND STORAGE SYSTEM. (SEE DETAIL SHEET C0.13)
10. PIPE BEDDING SEE DETAILS. (1/C0.16 & 2/C0.16)
11. REFER TO SHEET C0.07 FOR PROPOSED AND EXISTING GRADES

UTILITY NOTES

1. ALL UTILITIES WILL BE CONSTRUCTED PER CURRENT CITY OF ST. LOUIS PARK SPECIFICATIONS.
2. CONTRACTOR SHALL REFER TO MECHANICAL FOR CONTINUATION OF UTILITY SERVICES. ALL SERVICES SHALL BE VERIFIED PRIOR TO CONSTRUCTION
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DESIGN AND INSTALLATION OF PRIVATE UTILITIES WITH THE PRIVATE UTILITY COMPANIES (NATURAL GAS, ELECTRIC, CABLE TV, FIBER, ETC).
4. COORDINATE INSPECTION AND TESTING FOR ALL UNDERGROUND UTILITIES WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES. COMPLY WITH ALL LOCAL REQUIREMENTS. CONDUCT ALL TESTS TO THE SATISFACTION OF THE LOCAL AUTHORITIES.
5. COORDINATES ARE TO END OF PIPE, CENTER OF APPURTENANCE, OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
6. ALL UTILITIES AND CONDUITS SHALL TERMINATE 5' OUTSIDE THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
7. ALL EXISTING UTILITIES AND SERVICE LINES SHALL BE KEPT IN SERVICE AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT, UNLESS OTHERWISE AUTHORIZED BY THE CITY OF ST. LOUIS PARK.
8. REPORT ANY DISCREPANCIES TO THE ENGINEER. RECONNECT ALL SERVICES NOT MARKED FOR REMOVAL OR AS DIRECTED BY THE OWNER.
9. INSTALL ALL WATER MAINS AND APPURTENANCES IN ACCORDANCE WITH CITY OF ST. LOUIS PARK STANDARDS, AWWA AMERICAN WATERWORKS ASSOCIATION, MINNESOTA DNR AND THE NATIONAL FIRE PREVENTION ASSOCIATION (NFPA) STANDARDS.
10. PROVIDE ANY ADDITIONAL BENDS WITH THRUST BLOCKS AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS. PROVIDE A VERTICAL TIE-DOWN BLOCK FOR ANY VERTICAL BEND DOWN AND PROVIDE A CRADLE FOR ANY VERTICAL BEND UP. PROVIDE MECHANICAL DIP JOINT BENDS AS NEEDED.
11. MINIMUM 18" VERTICAL DISTANCE BETWEEN PIPE CROSSINGS. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM OR SANITARY SEWER PIPING, ADJUST THE WATER LINE DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.
12. CONDUCT A PRESSURE TEST ON ALL WATER MAIN, SANITARY FORCEMAIN AND FIRE PROTECTION LINES TO THE SATISFACTION OF THE LOCAL APPROVAL AUTHORITY AND THE OWNER'S INSURANCE CARRIER.
13. PROVIDE ALL WATER AND FIRE LINES WITH A MINIMUM DEPTH OF COVER OF 7.5 FEET.
14. HYDRANTS PLACED WHERE THE GROUNDWATER TABLE IS ABOVE THE DRAIN HOLE OUTLET SHALL HAVE THE DRAIN HOLE PLUGGED AND BE EQUIPPED WITH A TAG STATING THE NEED FOR PUMPING AFTER USE.
15. ALL POTABLE WATER PIPES, FITTINGS AND FIXTURES SHALL MEET THE 'REDUCTION OF LEAD IN DRINKING WATER ACT' WHICH ESTABLISHES A MAXIMUM LEAD CONTENT OF 0.25 PERCENT BY WEIGHTED AVERAGE OF THE WETTED SURFACES. HYDRANTS AND WATER DISTRIBUTION GATE VALVES 2 INCHES IN DIAMETER OR GREATER ARE EXEMPT.
16. THE CONTRACTOR SHALL ADJUST TO GRADE ALL WATER AND GAS VALVE BOXES AND MANHOLES THAT FALL WITHIN THE LIMITS OF THIS CONTRACT. THE CONTRACTOR SHALL KEEP ALL SAID WATER, GAS AND EXISTING SEWERS AND THEIR APPURTENANCES FREE OF DEBRIS AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
17. A #11 AWG TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC PIPES, THE WIRE SHALL BE TAPED TO THE PIPE EVERY 20 FEET, AND SHALL BE CONTINUOUS AND ACCESSIBLE ABOVEGROUND AT ALL VALVES AND BUILDING RISERS.
18. 10-FOOT HORIZONTAL SEPARATION REQUIRED BETWEEN SEWER LINES AND/OR STRUCTURES AND POTABLE WATER LINES. 18-INCH VERTICAL SEPARATION IS REQUIRED AT ALL WATERMAIN CROSSINGS OF STORM OR SANITARY SEWER.
19. CONTRACTOR SHALL IDENTIFY, FIELD VERIFY AND COORDINATE ALL EXISTING AND PROPOSED UTILITY CROSSINGS IN THE FIELD. REPORT CONFLICTS REQUIRING REDESIGN TO THE ENGINEER OF RECORD.

LEGEND

—|—|—	EXISTING WATER MAIN
—|—|—	PROPOSED WATER MAIN AND SERVICES
○	EXISTING HYDRANT
●	PROPOSED HYDRANT
—>—>—	EXISTING SANITARY SEWER PIPE
—>—>—	PROPOSED SANITARY SEWER PIPE
Ⓢ	EXISTING SANITARY SEWER MANHOLE
Ⓢ	PROPOSED SANITARY SEWER MANHOLE
—»—	EXISTING STORM SEWER PIPE
—»—	PROPOSED STORM SEWER PIPE
—RD »—RD »—RD »—	ROOF DRAINS LEADERS
ST ▨	EXISTING STORM SEWER STRUCTURES
● ● ○	PROPOSED STORM SEWER STRUCTURES
— UGT —	EXISTING UNDERGROUND TELEPHONE
Ⓣ	EXISTING TELEPHONE MANHOLE
— UGE —	EXISTING UNDERGROUND ELECTRIC
— OHE —	EXISTING OVERHEAD ELECTRIC
— GAS —	EXISTING UNDERGROUND GAS
— GAS —	PROPOSED UNDERGROUND GAS
—F/O—	EXISTING UNDERGROUND COMMUNICATIONS
—F/O—	PROPOSED UNDERGROUND COMMUNICATIONS
▭	PROPOSED STREET LIGHT
— · · — · · —	EXISTING/PROPOSED UTILITY EASEMENT LINE
X-X ◕	SOIL BORING



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