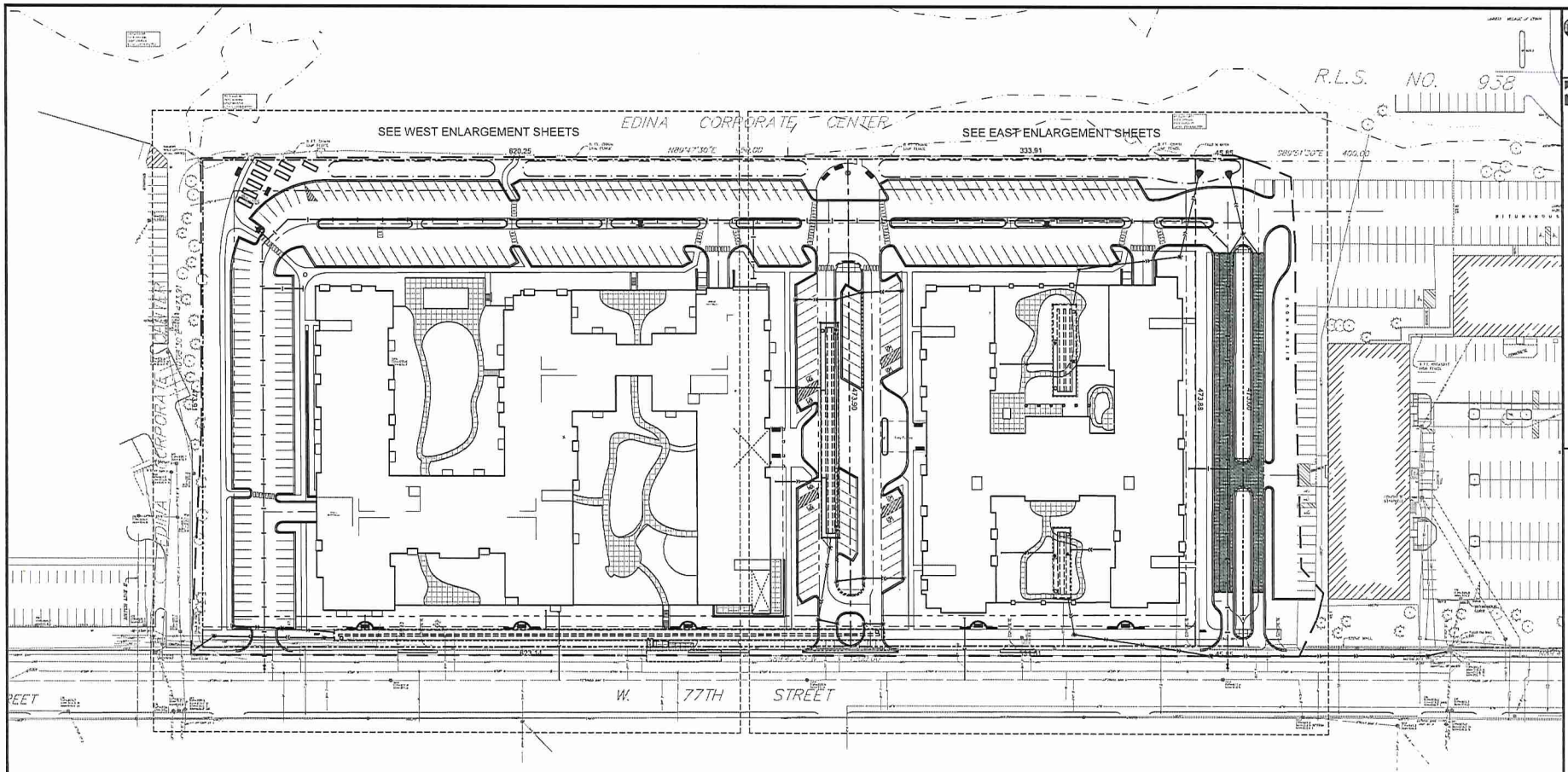


GENERAL UTILITY NOTES:

1. SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
3. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
4. UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION" AND "SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CSAM), AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
5. CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.
6. ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) UNLESS OTHERWISE NOTED.
7. ALL SANITARY SEWER SHALL BE SDR 26 POLYVINYL CHLORIDE (PVC) UNLESS OTHERWISE NOTED.
8. ALL STORM SEWER PIPE SHALL BE HDPE UNLESS OTHERWISE NOTED.
9. PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
10. UTILITIES ON THE PLAN ARE SHOWN TO WITHIN 5' OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
11. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET, ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.15 FEET PER DETAILS. RIM ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SUMPED ELEVATIONS.
12. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
13. HYDRANT TYPE, VALVE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRANT EXTENSIONS ARE INCIDENTAL.
14. A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN, UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL.
15. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES, UNLESS OTHERWISE NOTED.
16. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
17. CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE-DRILLED.
18. COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
19. COORDINATE INSTALLATION AND SCHEDULING OF THE INSTALLATION OF UTILITIES WITH ADJACENT CONTRACTORS AND CITY STAFF.
20. ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL PAVEMENT CONNECTIONS SHALL BE SAWCUT. ALL TRAFFIC CONTROLS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES. NO ROAD CLOSURES SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
21. ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLIED WITH. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
22. CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
23. CONTRACTOR SHALL COORDINATE CONNECTION OF IRRIGATION SERVICE TO UTILITIES. COORDINATE THE INSTALLATION OF IRRIGATION SLEEVES NECESSARY AS TO NOT IMPACT INSTALLATION OF UTILITIES.
24. CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON COMPLETION OF WORK.
25. ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT, APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, OR OTHER STRUCTURES.
26. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MN RULES, CHAPTER 4714, SECTION 1920.E.

CITY OF EDINA UTILITY NOTES:

1. RESERVED FOR CITY SPECIFIC UTILITY NOTES.

UTILITY LEGEND:

- CATCH BASIN
- MANHOLE
- GATE VALVE AND VALVE BOX
- PROPOSED FIRE HYDRANT
- WATER MAIN
- SANITARY SEWER
- STORM SEWER
- FES AND RIP RAP

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(651) 454-0002 LOCAL
(800) 252-1166 TOLL FREE

1" = 40'-0"
20'-0" 0 40'-0"

CivilSite GROUP
4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSite@civilsite.com
612-476-6003

KW hom wilson architects

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew R. Fewell

DATE 7/19/18 LICENSE NO. 44767

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
05/01/18	CITY SUBMITTAL
7/19/18	CITY RESUBMITTAL

REVISION SUMMARY

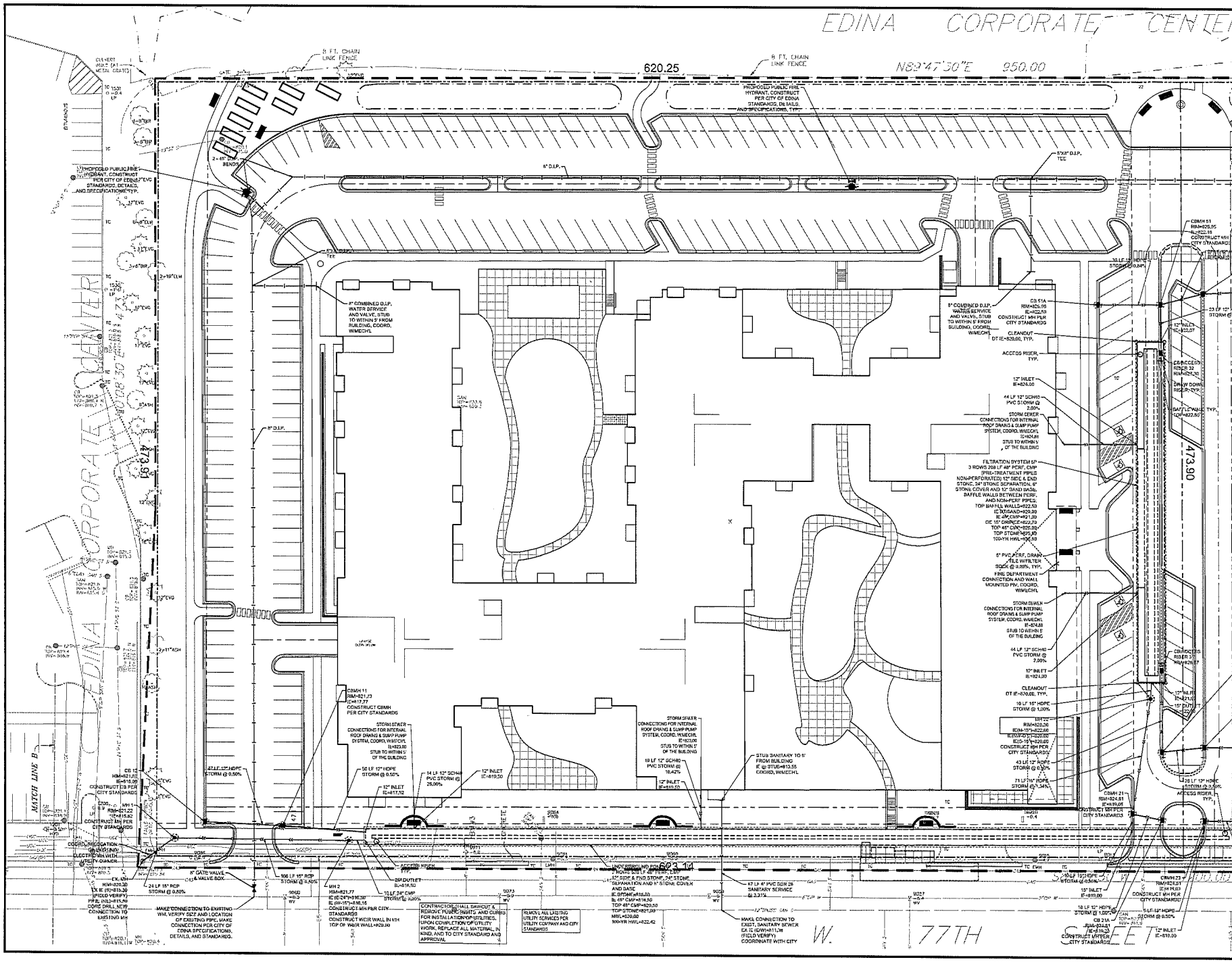
DATE	DESCRIPTION

PROJECT NUMBER: 17721

UTILITY PLAN

C4.0

© COPYRIGHT 2017 BY CIVILSITE GROUP INC.



CivilSite GROUP

4931 W. 35TH ST, SUITE 200
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-584-6082

KW kaas wilson architects

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

PROJECT

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew N. Fiecke

DATE 7/17/18 LICENSE NO. 44767

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
2018	CITY SUBMITTAL
2018	CITY RESUBMITTAL

REVISION SUMMARY

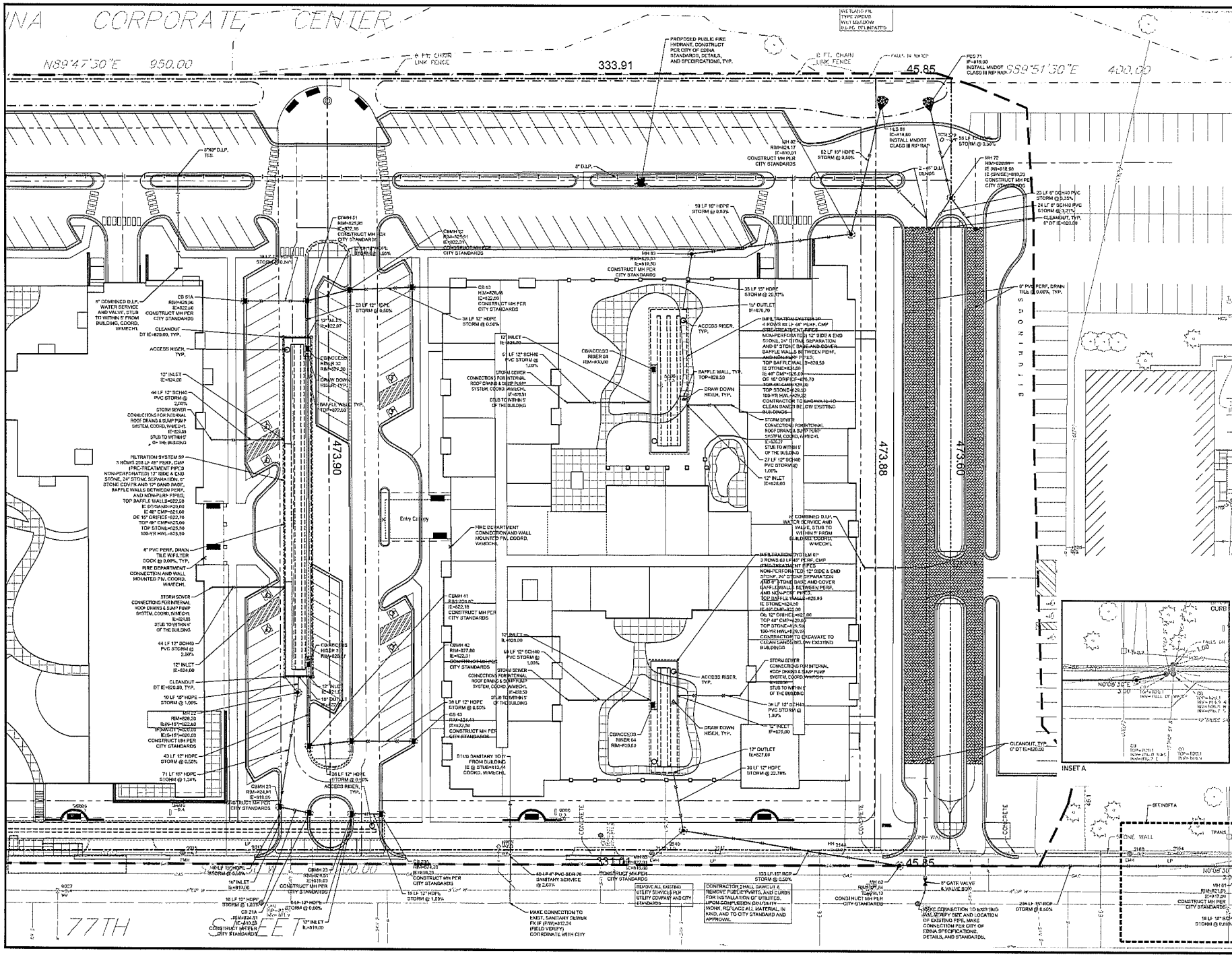
DATE	DESCRIPTION

PROJECT NUMBER 17231

UTILITY PLAN
WEST SECTION

C4.1

© 2018 CIVILSITE GROUP, INC. ALL RIGHTS RESERVED



CivilSite GROUP

4931 W. 35th St., Suite 200
St. Louis Park, MN 55416
(612) 238-9483

KW Kim Wilson Architects

SIENNA ON THE PARK

4500 & 4650 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

PROJECT

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew K. Pawlak

DATE 7/19/18 LICENSE NO. 46263

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
7/19/18	CITY SUBMITTAL

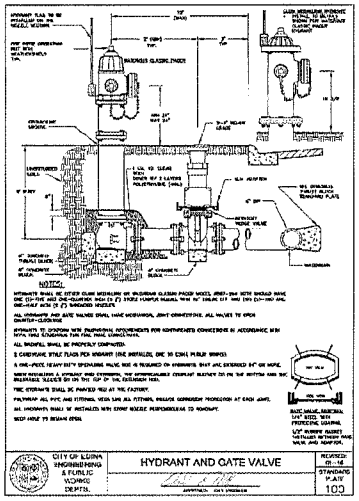
REVISION SUMMARY

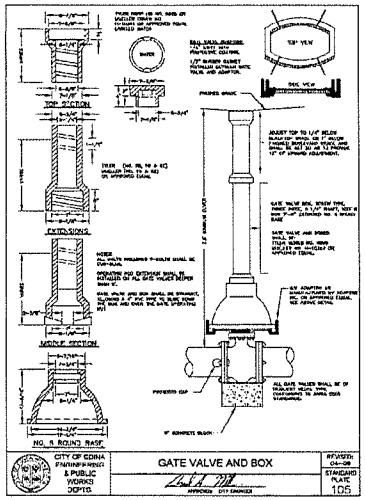
DATE	DESCRIPTION

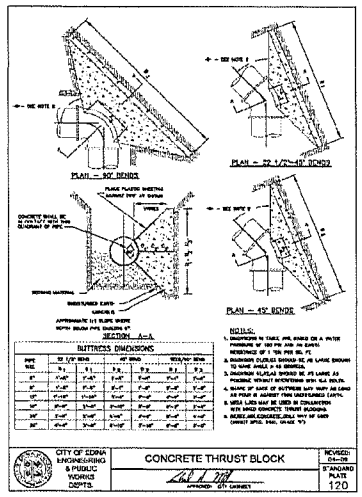
PROJECT NUMBER 1670

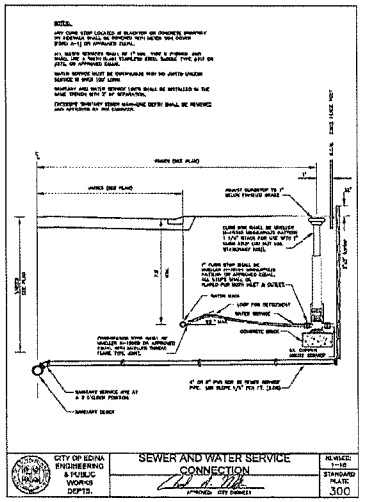
UTILITY PLAN
EAST SECTION

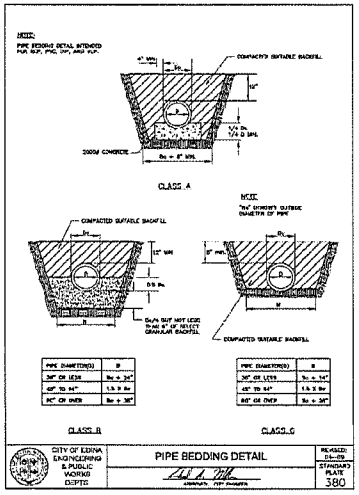
C4.2

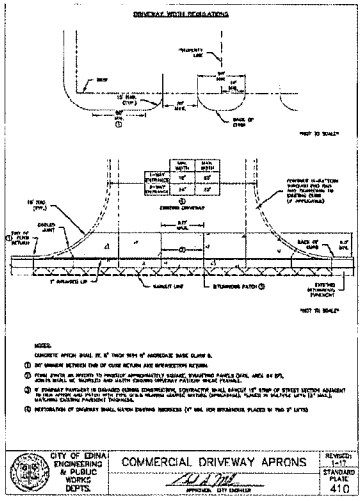


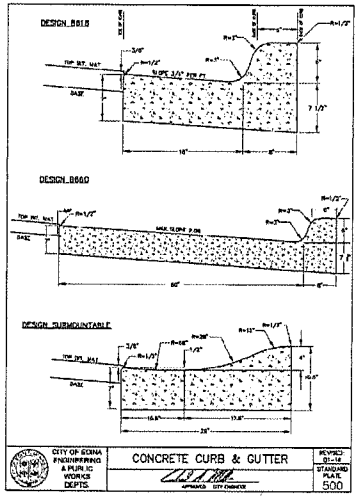


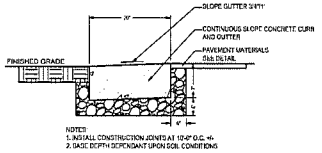




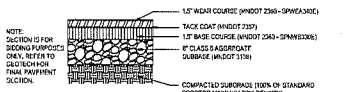




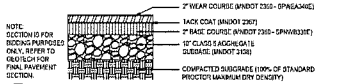




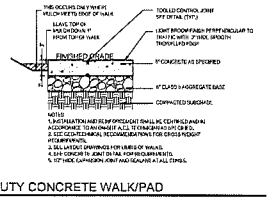
1 RIBBON CURB
NTS



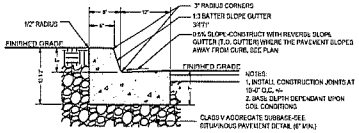
2 LIGHT DUTY BITUMINOUS PAVEMENT
NTS



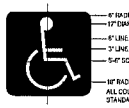
3 HEAVY DUTY BITUMINOUS PAVEMENT
NTS



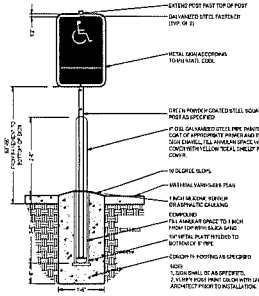
5 LIGHT DUTY CONCRETE WALK/PAD
NTS



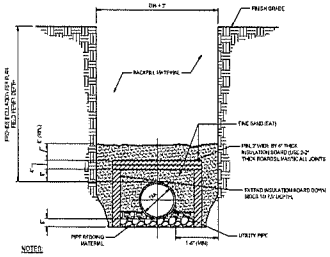
4 B-612 CONCRETE CURB AND GUTTER
NTS



6 ACCESSIBLE PARKING PAVEMENT MARKING
NTS



7 ACCESSIBLE SIGN AND POST
NTS



NOTES:
1. INSULATION BOARD TO BE CLOSED CELL EXTRUDED POLYSTYRENE FOAM MEETING ASTM STA. TYPE VI, 40PSI COMPRESSING STRENGTH (ASTM D1621) 0.1% MAX. WATER ABSORPTION (ASTM C272).
2. BACKFILL MATERIAL AROUND INSULATION MUST BE FINE SAND FREE FROM ROOT, ORGANIC MATERIAL OR OTHER RUBBISHOUS MATERIALS.
2. OVERLAP ALL INSULATION BOARD JOINTS.

8 UTILITY PIPE INSULATION DETAIL
NTS

CivilSite GROUP
4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSite Group.com
612-615-0060

KLW Klaas Wilson Architects

PROJECT
SIENNA ON THE PARK
4600 & 4650 77TH ST W, EDINA, MN 55435
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew N. Fewin
DATE 7/13/18 LICENSE NO. 46267

ISSUE/SUBMITTAL SUMMARY

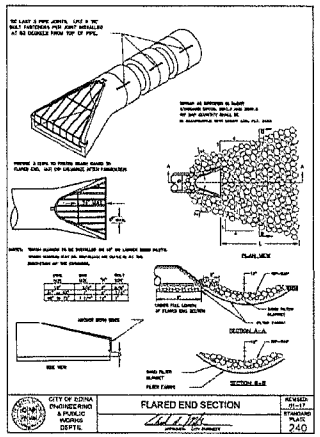
DATE	DESCRIPTION
07/13/18	CITY SUBMITTAL

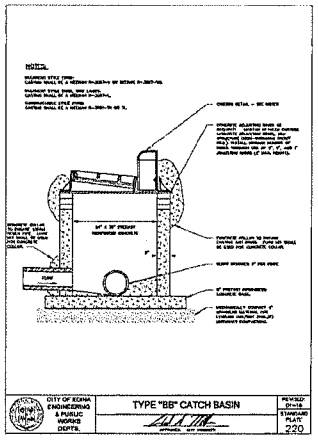
REVISION SUMMARY

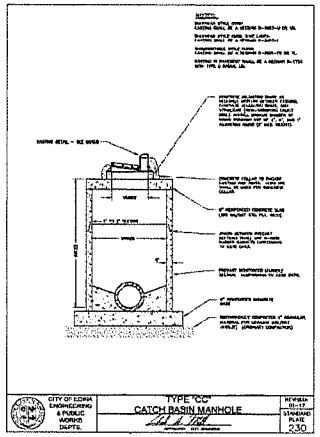
DATE	DESCRIPTION

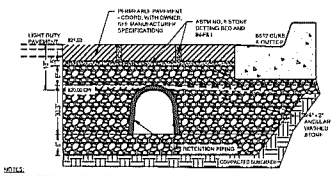
CIVIL DETAILS

C5.0



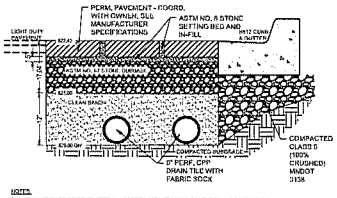






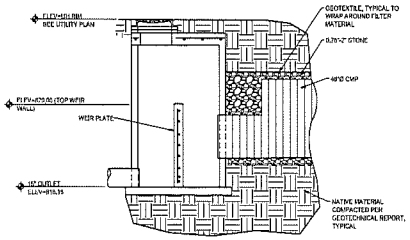
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. A SUBGRADE CONSISTING OF GRADED AGGREGATE MAY BE REQUIRED WHEN SUBGRADE CONDITIONS ARE POOR.

1 PERMEABLE PAVEMENT - #1 (1P)
NTS

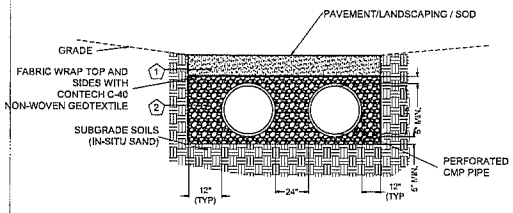


NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. A SUBGRADE CONSISTING OF GRADED AGGREGATE MAY BE REQUIRED WHEN SUBGRADE CONDITIONS ARE POOR.

2 PERMEABLE PAVEMENT - #2
NTS



3 OUTLET STRUCTURE - MH 2 (4P)
NTS



SECTION DETAIL
NTS

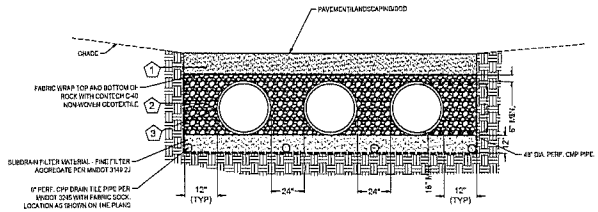
KEY
1. TOPSOIL
2. FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE (NON LIMESTONE MATERIAL THAT CONTAINS LESS THAN 5% DELETERIOUS MATERIALS), INSTALL TO MIN. 95% STANDARD DENSITY PER AASHTO T99.

CONSTRUCTION SEQUENCING

1. INSTALL SILT FENCE AND/OR OR OTHER APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING THE PRACTICE DURING CONSTRUCTION.
2. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMPS MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS.
3. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES.
4. INSTALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, PHONE, FIBER OPTIC, ETC) PRIOR TO SETTING FINAL GRADE OF BIORETENTION DEVICE.
5. PERFORM ALL OTHER SITE IMPROVEMENTS.
6. SEED AND MULCH ALL AREAS AFTER DISTURBANCE.
7. CONSTRUCT RETENTION DEVICE UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA.
8. IMPLEMENT TEMPORARY AND PERMENATE EROSION CONTROL PRACTICES.
9. PLANT AND MULCH SITE.
10. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.

GENERAL NOTES
1. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION.
2. GRADING OF RETENTION DEVICES SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTHMOVING EQUIPMENT TO PREVENT COMPACTION OF UNDERLYING SOILS.
3. ALL SUB MATERIALS BELOW THE SPECIFIED RETENTION DEPTH (ELEVATION) SHALL BE UNDISTURBED, UNLESS OTHERWISE NOTED.

4 UNDERGROUND RETENTION SYSTEM (4P)
NTS



TYP. SECTION DETAIL
NTS

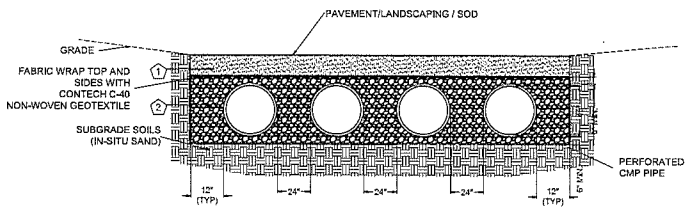
KEY
1. TOPSOIL
2. FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE (NON LIMESTONE MATERIAL THAT CONTAINS LESS THAN 5% DELETERIOUS MATERIALS), INSTALL TO MIN. 95% STANDARD DENSITY PER AASHTO T99.

CONSTRUCTION SEQUENCING

1. INSTALL SILT FENCE AND/OR OR OTHER APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING THE PRACTICE DURING CONSTRUCTION.
2. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMPS MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS.
3. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES.
4. INSTALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, PHONE, FIBER OPTIC, ETC) PRIOR TO SETTING FINAL GRADE OF BIORETENTION DEVICE.
5. PERFORM ALL OTHER SITE IMPROVEMENTS.
6. SEED AND MULCH ALL AREAS AFTER DISTURBANCE.
7. CONSTRUCT RETENTION DEVICE UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA.
8. IMPLEMENT TEMPORARY AND PERMENATE EROSION CONTROL PRACTICES.
9. PLANT AND MULCH SITE.
10. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.

GENERAL NOTES
1. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION.
2. GRADING OF RETENTION DEVICES SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTHMOVING EQUIPMENT TO PREVENT COMPACTION OF UNDERLYING SOILS.
3. ALL SUB MATERIALS BELOW THE SPECIFIED RETENTION DEPTH (ELEVATION) SHALL BE UNDISTURBED, UNLESS OTHERWISE NOTED.

5 UNDERGROUND FILTRATION SYSTEM (5P)
NTS



SECTION DETAIL
NTS

KEY
1. TOPSOIL
2. FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE (NON LIMESTONE MATERIAL THAT CONTAINS LESS THAN 5% DELETERIOUS MATERIALS), INSTALL TO MIN. 95% STANDARD DENSITY PER AASHTO T99.

CONSTRUCTION SEQUENCING

1. INSTALL SILT FENCE AND/OR OR OTHER APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING THE PRACTICE DURING CONSTRUCTION.
2. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMPS MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS.
3. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES.
4. INSTALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, PHONE, FIBER OPTIC, ETC) PRIOR TO SETTING FINAL GRADE OF BIORETENTION DEVICE.
5. PERFORM ALL OTHER SITE IMPROVEMENTS.
6. SEED AND MULCH ALL AREAS AFTER DISTURBANCE.
7. CONSTRUCT RETENTION DEVICE UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA.
8. IMPLEMENT TEMPORARY AND PERMENATE EROSION CONTROL PRACTICES.
9. PLANT AND MULCH SITE.
10. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.

GENERAL NOTES
1. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION.
2. GRADING OF RETENTION DEVICES SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTHMOVING EQUIPMENT TO PREVENT COMPACTION OF UNDERLYING SOILS.
3. ALL SUB MATERIALS BELOW THE SPECIFIED RETENTION DEPTH (ELEVATION) SHALL BE UNDISTURBED, UNLESS OTHERWISE NOTED.

6 UNDERGROUND INFILTRATION SYSTEM (3P & 6P)
NTS

CivilSite GROUP
4931 W. 35th ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSite@msn.com
612-615-0460

PROJECT
SIENNA ON THE PARK
4600 & 4660 77TH ST W, EDINA, MN 55435
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew R. Pavek
DATE 7/19/18 LICENSE NO. 46761

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
	CONTRACTOR SUBMITTAL
	CITY REQUIREMENTS

REVISION SUMMARY

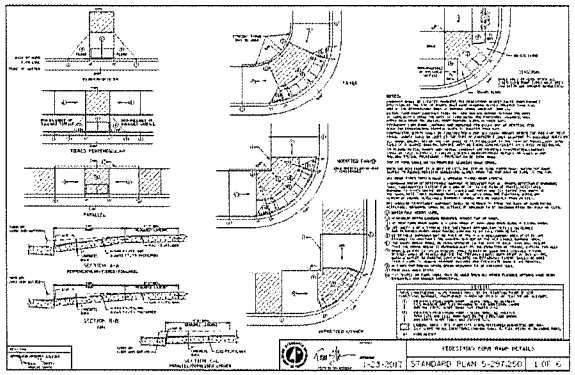
DATE	DESCRIPTION

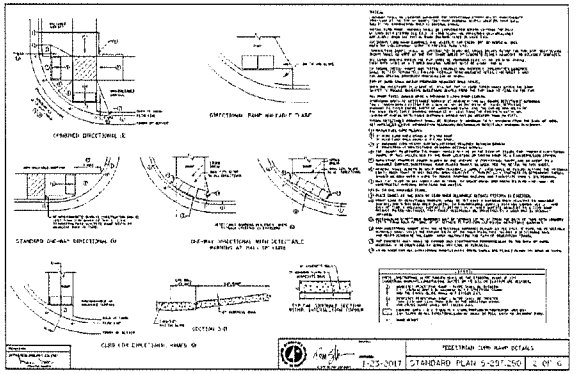
PROJECT NUMBER: 17077

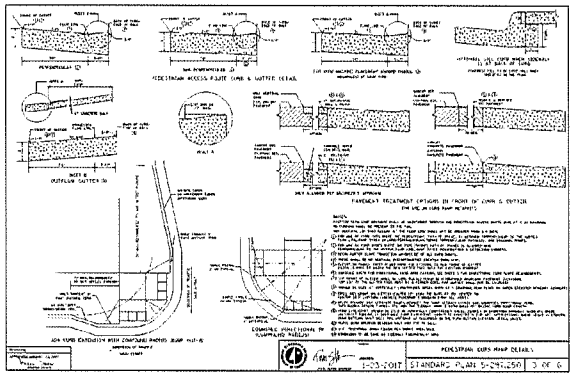
CIVIL DETAILS

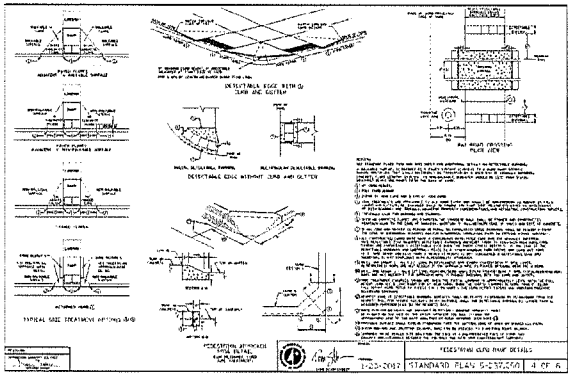
C5.1

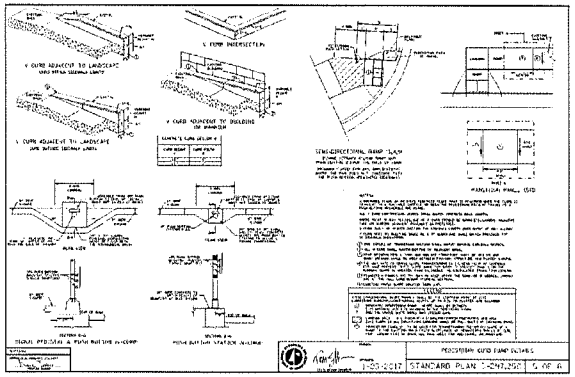
©COPYRIGHT 2017 CSG, INC. ALL RIGHTS RESERVED

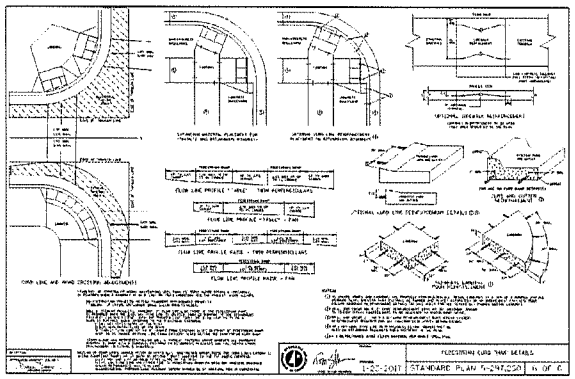












CivilSite GROUP
4101 W. 24TH ST., SUITE 201
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-616-0602

KWA kaun wilson architects

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2149 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MATTHEW R. POWER

DATE 7/10/18 LICENSE NO. 46063

ISSUE/SUBMITTAL SUMMARY

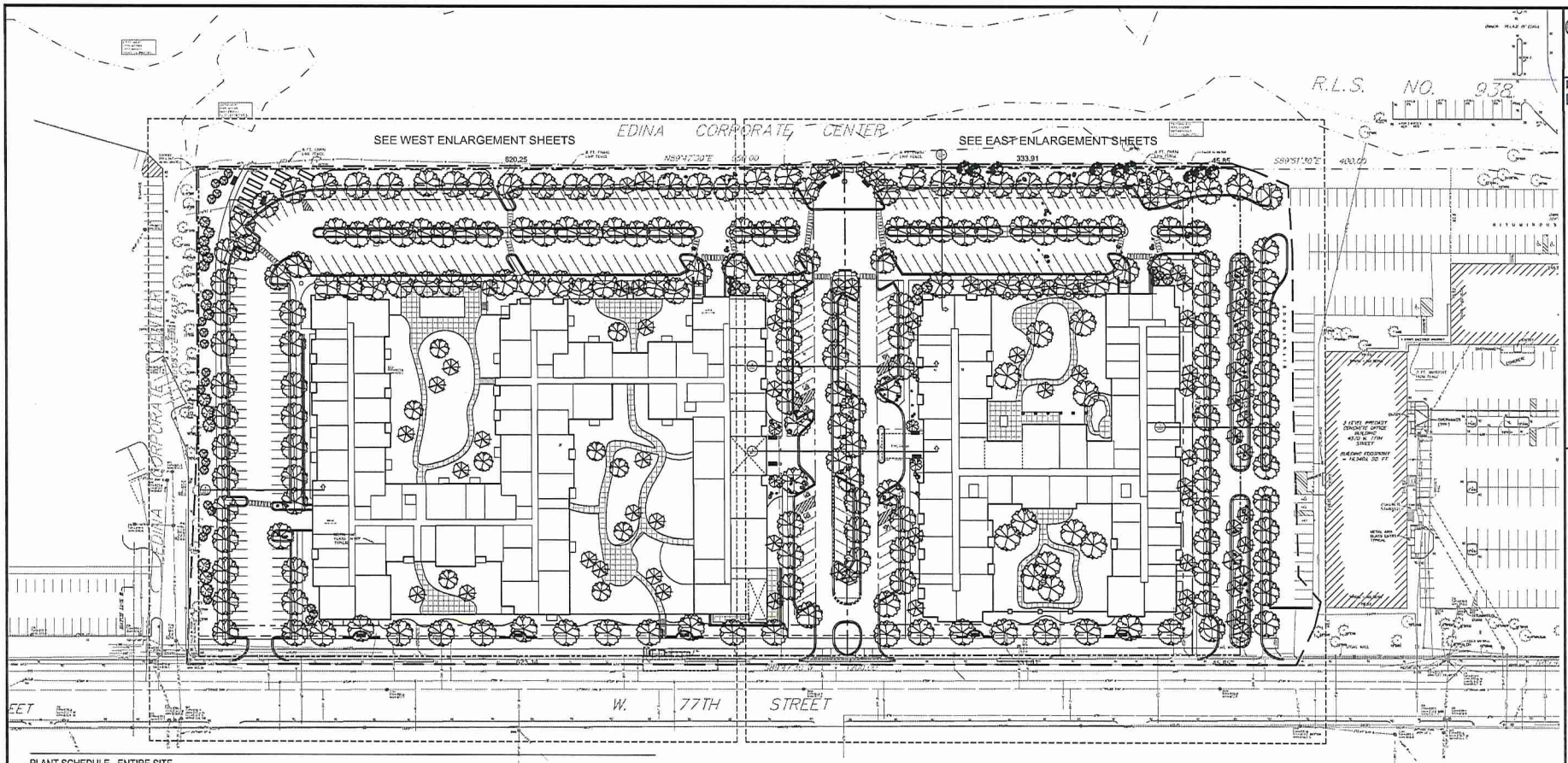
DATE	DESCRIPTION
6/01/18	CITY SUBMITTAL
7/10/18	CITY RESUBMITTAL

REVISION SUMMARY

DATE	DESCRIPTION

CIVIL DETAILS

C5.2



PLANT SCHEDULE - ENTIRE SITE

SYM	QUANT.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	POLL FRIENDLY	NATIVE	COMMENTS
		DECIDUOUS TREES						
ADM	67	AUTUMN BLAZE MAPLE	Acer x freemani 'Jeffersred'	3" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
GHL	56	SKYLINE HONEYLOCUST	Gleditsia triacanthos 'Skyline'	3" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
BB	7	BLUE BEECH	Carpinus caroliniana	3" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
KCT	5	Kentucky Coffeetree	Gymnocladus dioicus	3" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
SWO	5	SWAMP WHITE OAK	Quercus bicolor	4.5" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
BO	7	BUR OAK	Quercus macrocarpa	3" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
RB	13	RIVER BIRCH	Betula nigra	3.0" CAL.	B&B		X	STRAIGHT LEADER, FULL FORM
HB	24	HACKBERRY	Celtis occidentalis				X	
BVL	25	Bickelward Linden	Tilia americana 'Bickelward'				X	
		ORNAMENTAL TREES						
PHC	6	PRAIRIFIRE FLOWERING CRAB	Malus 'Prairefire'	2" CAL.	B&B	X		STRAIGHT LEADER, FULL FORM
SSC	18	SPRING SNOW FLOWERING CRAB	Malus 'Spring Snow'	2" CAL.	B&B	X		STRAIGHT LEADER, FULL FORM
RBC	8	RED BARON FLOWERING CRAB	Malus 'Red Baron'	2" CAL.	B&B	X		STRAIGHT LEADER, FULL FORM
THT	6	THORNLESS HAWTHORN	Crataegus crus-galli 'Inermis'	2" CAL.	B&B	X	X	STRAIGHT LEADER, FULL FORM
IDL	12	IVORY SILK TREE LILAC (TREE FORM)	Syringa reticulata 'Ivory Silk (tree form)'	2" CAL.	B&B	X	X	STRAIGHT LEADER, FULL FORM
MMT	5	Merrill Magnolia tree	Magnolia x loebneri 'Merrill'			X	X	
AMP	9	Amur Maple	Acer ginnala				X	
		EVERGREEN TREES						
BHS	11	BLACK HILLS SPRUCE	Picea glauca 'Densata'	10' HT.	B&B		X	(4.2" CAL.)
WS	17	WHITE SPRUCE	Picea glauca	8' HT.	B&B		X	(2.5" CAL.)
WP	29	WHITE PINE	Pinus strobus	8' HT.	B&B		X	(3.2" CAL.)
EWC	4	EASTERN REDCEDAR	Juniperus virginiana	6' HT.	B&B		X	(3.2" CAL.)
		SHRUBS - CONIFEROUS & EVERGREEN						
AGW	33	ARTHUR GLOW WINTERBERRY	Ilex verticillata 'Arthurglow'	36" HT.	CONT.	X	X	OR #5 CONT, IF LARGER
JDW	13	JIM DANDY WINTERBERRY	Ilex verticillata 'Jim Dandy'	36" HT.	CONT.		X	OR #5 CONT, IF LARGER
AH	21	ANNABELLE HYDRANGEA	Hydrangea arborescens 'Annabelle'	36" HT.	CONT.	X		OR #5 CONT, IF LARGER
CDB	71	FIRE BALL EUONYMUS	Euonymus alatus 'Fire Ball'	24" HT.	CONT.			OR #5 CONT, IF LARGER
ARD	64	ARCTIC FIRE DOGWOOD	Cornus sericea 'Farrow'	24" HT.	CONT.		X	OR #5 CONT, IF LARGER
FGA	33	EMERALD GRITTY HAIR CONIFER	Thuja occidentalis 'Smaragd'	24" HT.	CONT.			OR #5 CONT, IF LARGER
PSW	40	PAVEMENT SNOW FOXTAIL	Rosa 'Snow Pavement'	24" HT.	CONT.	X		OR #5 CONT, IF LARGER
NY	30	NOVA YEW	Taxus cuspidata 'Nova'	24" HT.	CONT.			OR #5 CONT, IF LARGER
DKL	16	DWARF KOREAN LILAC	Syringa meyeri 'Palibin'	24" HT.	CONT.	X	X	OR #5 CONT, IF LARGER
RGD	18	RED GNOME DOGWOOD	Cornus alba 'Bloomzam'	24" HT.	CONT.	X	X	OR #5 CONT, IF LARGER
		PERENNIALS, GRASSES, GROUND COVERS & VINES						
DBDC	29	MAMMOTH DARK BRONZE DAISY CHRYSANTHEMUM	Chrysanthemum 'Dark Bronze Daisy'	#1	CONT.	X		
AJD	33	AUTUMN JOY SEDUM	Sedum 'Autumn Joy'	#1	CONT.	X	X	
CS	52	CARADONNA SALVIA	Salvia x sylvestris 'Caradonna'	#1	CONT.	X		
KFG	71	KARL FOERSTER GRASS	Calamagrostis x acutiflora 'Karl Foerster'	#1	CONT.			
BHSS	254	BLUE HEAVEN LITTLE BLUE STEM	Schizachyrium scoparium 'Blue Heaven'	#1	CONT.		X	
SSD	81	STELLA SUPREME DAYLILY	Hemerocallis 'Stella Supreme'			X		
PUD	66	PARDON ME DAYLILY	Hemerocallis 'Pardon Me'	#1	CONT.	X		
GRB	249	GOLDSTURM RUDBECKIA	Rudbeckia fulgida 'Goldsturm'	#1	CONT.	X	X	
PME	117	PIXIE MEADOWKNITE ECHINACEA	Echinacea 'Pixie Meadowkniht'	#1	CONT.	X	X	
LTC	103	LITTLE TITCH CATMINT	Nepeta racemosa 'Little Titch'	#1	CONT.	X		

LANDSCAPE NOTES:

1. WHERE SHOWN, SHRUB BEDS SHALL BE MULCHED WITH 4" DEPTH (MINIMUM AFTER INSTALLATION AND/OR TOP DRESSING OPERATIONS) OF SHREDDED CYPRESS MULCH.
2. ALL TREES SHALL BE MULCHED WITH SHREDDED CYPRESS MULCH TO OUTER EDGE OF SAUCER OR TO EDGE OF PLANTING BED, IF APPLICABLE. ALL MULCH SHALL BE KEPT WITHIN A MINIMUM OF 2" FROM TREE TRUNK.
3. IF SHOWN ON PLAN, RANDOM SIZED LIMESTONE BOULDERS COLOR AND SIZE TO COMPLIMENT NEW LANDSCAPING. OWNER TO APPROVE BOULDER SAMPLES PRIOR TO INSTALLATION.
4. PLANT MATERIALS SHALL CONFORM WITH THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE OF HARDY STOCK, FREE FROM DISEASE, DAMAGE AND DISFIGURATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PLUMPNESS OF PLANT MATERIAL FOR DURATION OF ACCEPTANCE PERIOD.
5. UPON DISCOVERY OF A DISCREPANCY BETWEEN THE QUANTITY OF PLANTS SHOWN ON THE SCHEDULE AND THE QUANTITY SHOWN ON THE PLAN, THE PLAN SHALL GOVERN.
6. CONDITION OF VEGETATION SHALL BE MONITORED BY THE LANDSCAPE ARCHITECT THROUGHOUT THE DURATION OF THE CONTRACT. LANDSCAPE MATERIALS PART OF THE CONTRACT SHALL BE WARRANTED FOR ONE (1) FULL GROWING SEASON FROM SUBSTANTIAL COMPLETION DATE.
7. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL RECEIVE 4" LAYER LOAM AND SOD AS SPECIFIED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
8. COORDINATE LOCATION OF VEGETATION WITH UNDERGROUND AND OVERHEAD UTILITIES, LIGHTING FIXTURES, DOORS AND WINDOWS. CONTRACTOR SHALL STAKE IN THE FIELD FINAL LOCATION OF TREES AND SHRUBS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
9. ALL PLANT MATERIALS SHALL BE WATERED AND MAINTAINED UNTIL ACCEPTANCE.
10. REPAIR AT NO COST TO OWNER ALL DAMAGE RESULTING FROM LANDSCAPE CONTRACTOR'S ACTIVITIES.
11. SWEEP AND MAINTAIN ALL PAVED SURFACES FREE OF DEBRIS GENERATED FROM LANDSCAPE CONTRACTOR'S ACTIVITIES.
12. REPAIR AT NO COST TO THE OWNER IRRIGATION SYSTEM DAMAGED FROM LANDSCAPE CONSTRUCTION ACTIVITIES.
13. PROVIDE SITE WIDE IRRIGATION SYSTEM DESIGN AND INSTALLATION. SYSTEM SHALL BE FULLY PROGRAMMABLE AND CAPABLE OF ALTERNATE DATE WATERING. THE SYSTEM SHALL PROVIDE HEAD TO HEAD OR DRIP COVERAGE AND BE CAPABLE OF DELIVERING ONE INCH OF PRECIPITATION PER WEEK. SYSTEM SHALL EXTEND INTO THE PUBLIC RIGHT-OF-WAY TO THE EDGE OF PAVEMENT/BACK OF CURB.
14. CONTRACTOR SHALL SECURE APPROVAL OF PROPOSED IRRIGATION SYSTEM INCLUDING PRICING FROM OWNER, PRIOR TO INSTALLATION.

TREE PRESERVATION CALCULATIONS:

	NUMBER	CAL. INCHES
SIGNIFICANT TREES	102	1389
TOTAL ON-SITE	124	1691

	NUMBER	CAL. INCHES
TOTAL SIGNIFICANT TREES REMOVED	102	1389
TOTAL REPLACEMENT TREES	102	255

LANDSCAPE CALCULATIONS:

PROPOSED LANDSCAPE:
1 TREE/ 40 LINEAR FEET OF SITE PER
2,948.0 LF / 40 = 74

LANDSCAPE SHEETS L1.0-L1.3 LEGEND

- SEED TYPE 1 - MNDOT 34-262 WET PRAIRIE, PER MNDOT SEEDING MANUAL SPECIFICATIONS (2014)
- SEED TYPE 2 - MNDOT 35-221 DRY PRAIRIE GENERAL, PER MNDOT SEEDING MANUAL SPECIFICATIONS (2014)
- 1" DIA. DECORATIVE ROCK MAINTENANCE STRIP OVER FILTER FABRIC, SAMPLES REQUIRED, PROVIDE EDGING AS SHOWN ON PLAN
- 1" DIA. DECORATIVE ROCK MULCH, SAMPLES REQUIRED PROVIDE EDGING AS SHOWN ON PLAN
- SHREDDED CYPRESS MULCH, SAMPLES REQUIRED PROVIDE EDGING AS SHOWN ON PLAN
- SOD
- PROPOSED CANOPY & EVERGREEN TREE SYMBOLS - SEE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
- PROPOSED DECIDUOUS AND EVERGREEN SHRUB SYMBOLS - SEE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
- PROPOSED PERENNIAL PLANT SYMBOLS - SEE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
- DECORATIVE BOULDERS, 18-30" DIA.

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(651) 454-0002 LOCAL

1" = 20'-0"

CivilSite GROUP
4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-278-6060

KWA hart wilson architects

PROJECT
SIENNA ON THE PARK
4600 & 4660 77TH ST W, EDINA, MN 55435
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

TIMOTHY L. GRANT
DATE 7/13/18 LICENSE NO. 19871

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
07/13/18	CITY SUBMITTAL

REVISION SUMMARY

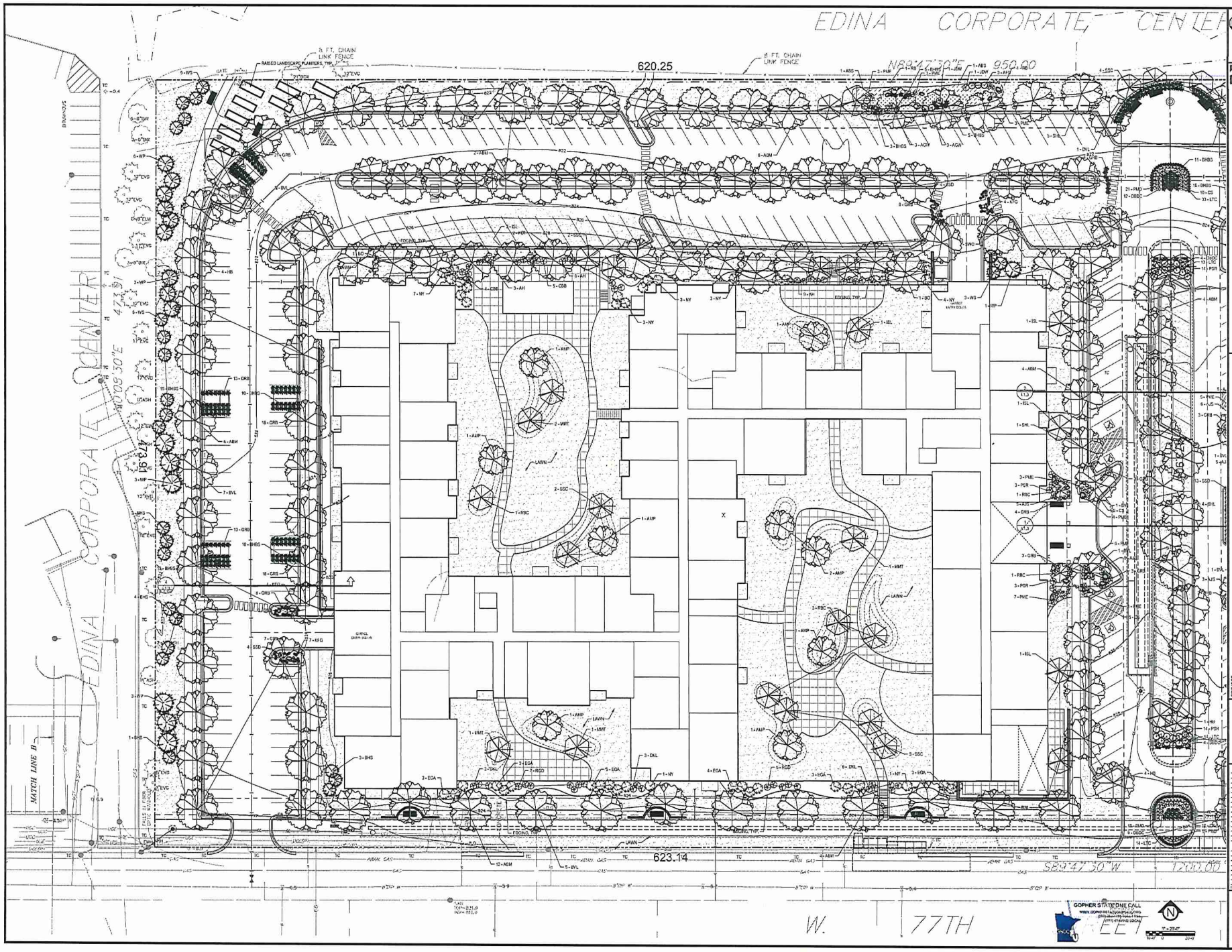
DATE	DESCRIPTION

PROJECT MANAGER 17171

LANDSCAPE PLAN

L1.0

© Copyright 2017 CSG, KWA, Hart Wilson



CivilSite GROUP

4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSite@mtgi.com
612-615-0060

KW hoyt wilson architects

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

ROBERT L. BRYDAT

DATE 7/15/08 LICENSE NO. 25471

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
4/04/08	CITY SUBMITTAL
7/15/08	CITY RESUBMITTAL

REVISION SUMMARY

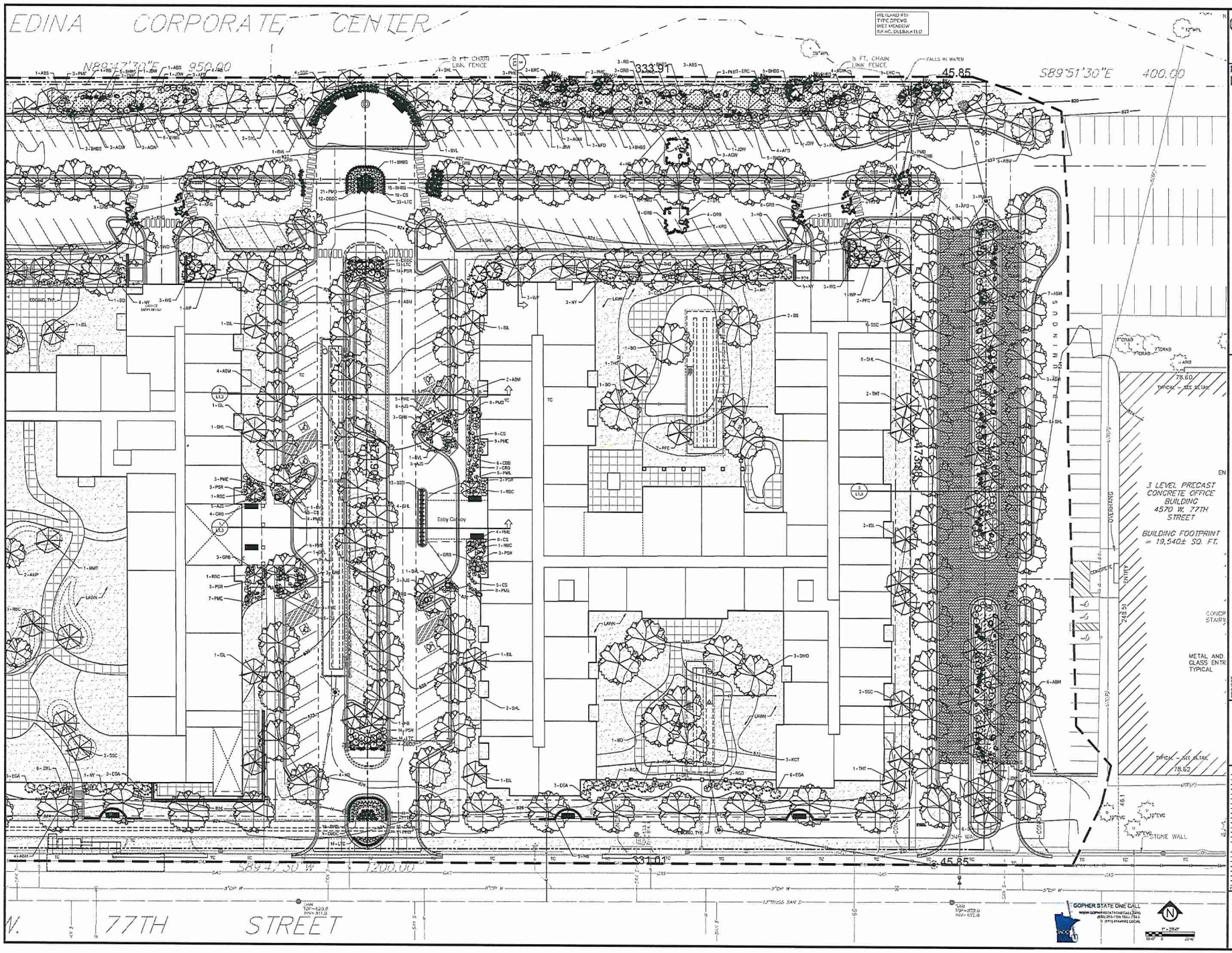
DATE	DESCRIPTION

PROJECT NUMBER: 1277

LANDSCAPE PLAN
WEST SECTION

L1.1

© CIVILSITE GROUP, KW HOYT WILSON ARCHITECTS



CivilSite GROUP
4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-615-0060

KWA kaas wilson architects

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Hobart L. Binder

DATE 7/10/18 LICENSE NO. 25871

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
4/27/18	CITY SUBMITTAL
7/10/18	CITY RESUBMITTAL

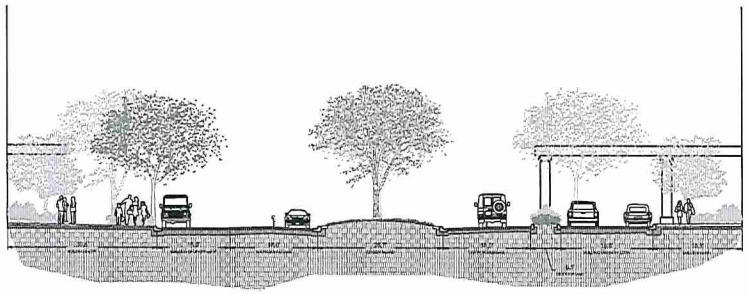
REVISION SUMMARY

DATE	DESCRIPTION

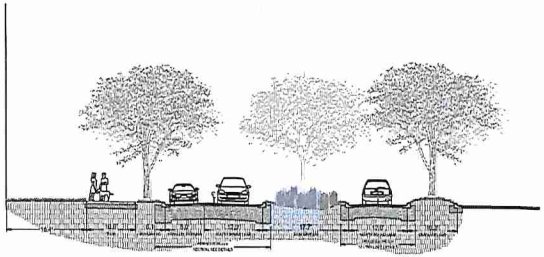
PROJECT NUMBER: 5079

LANDSCAPE PLAN
EAST SECTION

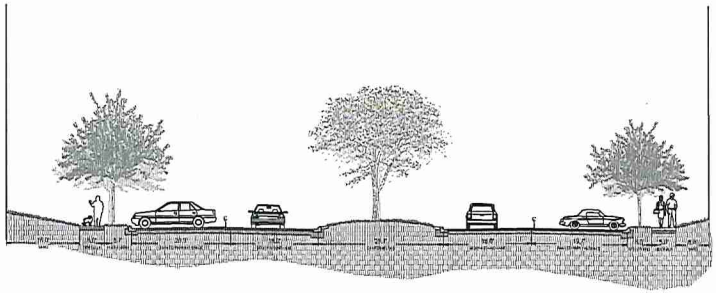
L1.2



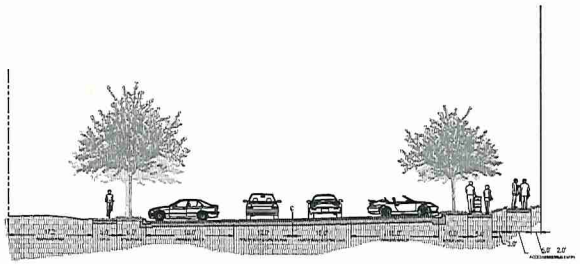
1 MAIN ENTRANCE SECTION



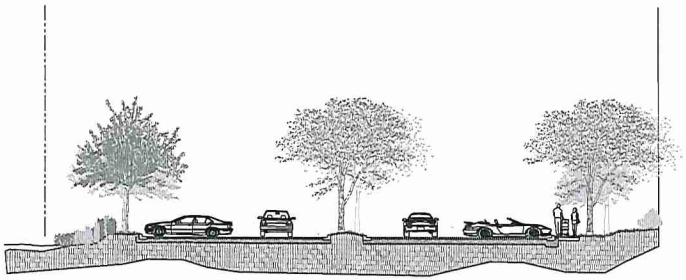
3 WEST END SECTION



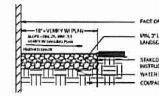
2 NORTH END SECTION



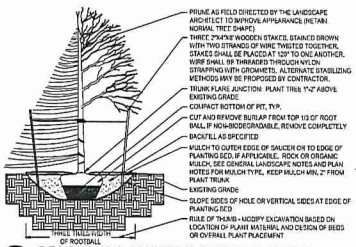
4 EAST END SECTION



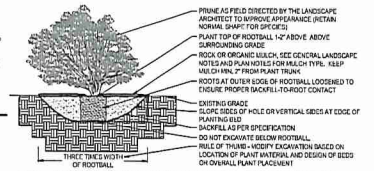
5 NORTH SIDE BOULEVARD SECTION



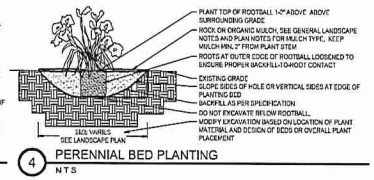
1 AGGREGATE MAINTANENCE STRIP
NTS



2 DECIDUOUS & CONIFEROUS TREE PLANTING
NTS



3 DECIDUOUS & CONIFEROUS SHRUB PLANTING
NTS



4 PERENNIAL BED PLANTING
NTS

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(651) 454-0102 TOLL FREE
(651) 454-0002 LOCAL

CivilSite GROUP
4151 W. 35TH ST., SUITE 264
ST. LOUIS PARK, MN 55416
Civil@CivilSite.com
612-616-4069

KW wilson architecture

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Robert L. Grover

DATE 7/19/18 LICENSE NO. 75971

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
05/09/18	CITY SUBMITTAL
07/19/18	CITY RESUBMITTAL

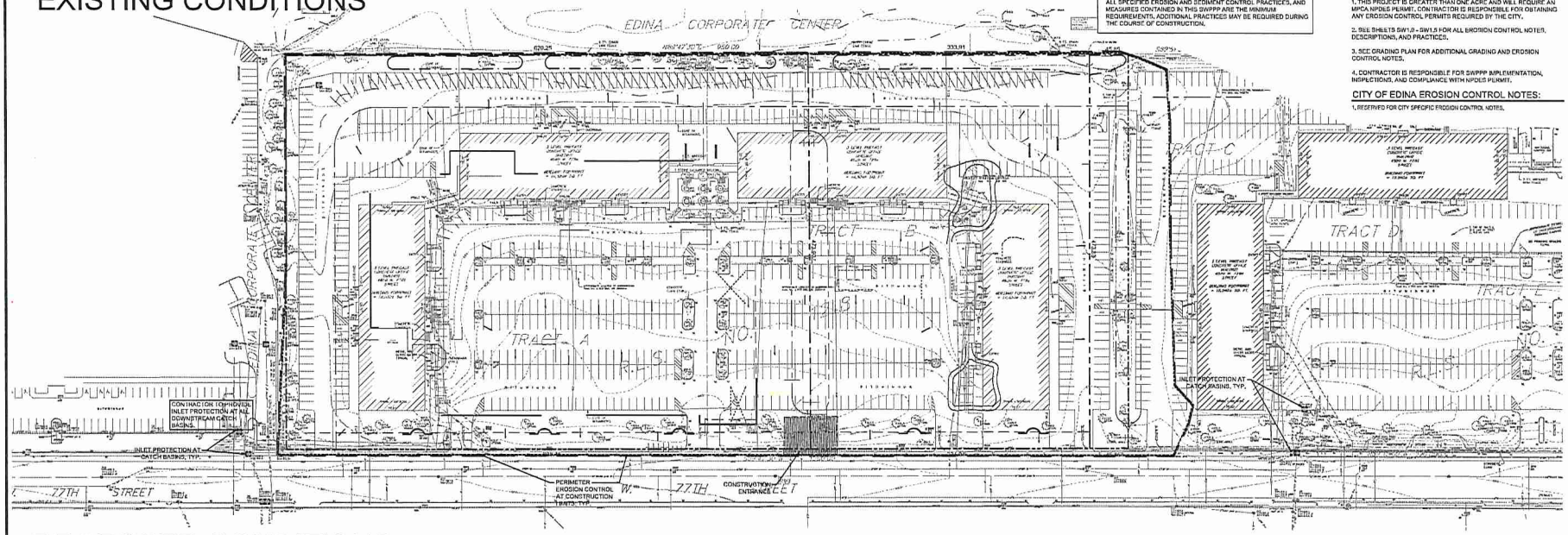
REVISION SUMMARY

DATE	DESCRIPTION

LANDSCAPE PLAN NOTES & DETAILS

L1.3

EXISTING CONDITIONS



ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

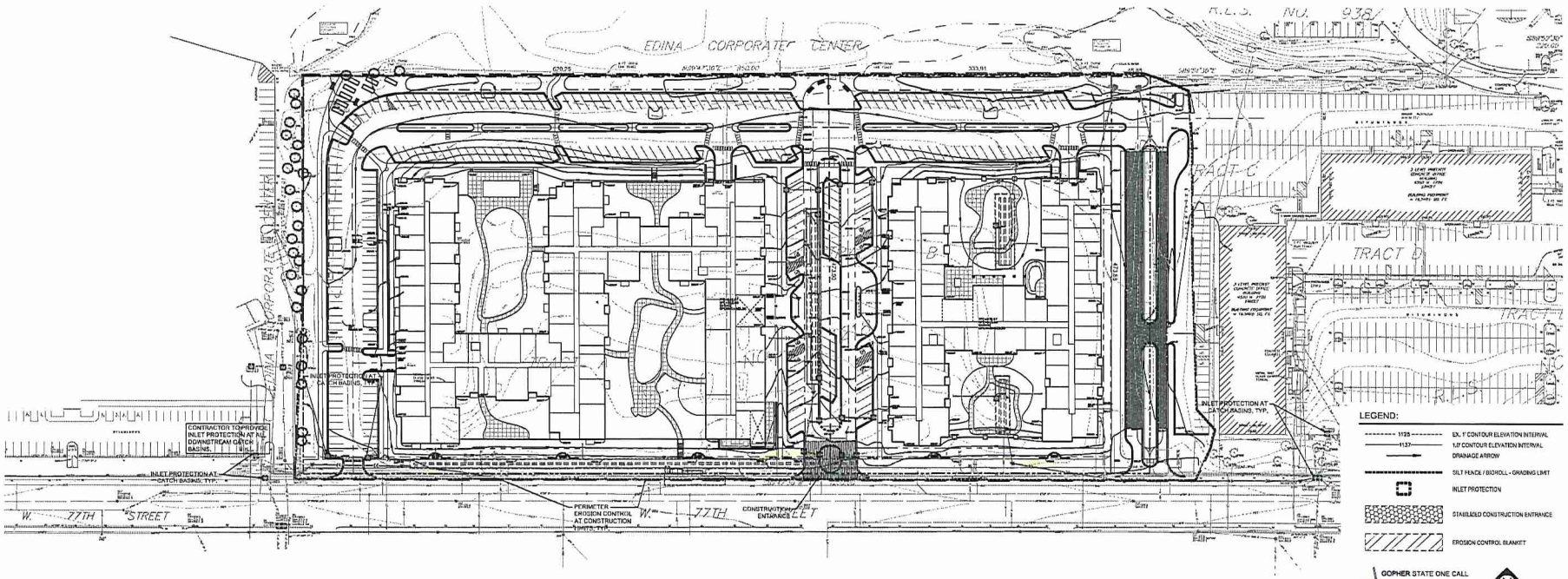
SWPPP NOTES:

1. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN MPCA NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL PERMITS REQUIRED BY THE CITY.
2. SEE SHEETS SW1.0 - SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS, AND PRACTICES.
3. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.
4. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

CITY OF EDINA EROSION CONTROL NOTES:

1. RECEIVED FOR CITY SPECIFIC EROSION CONTROL NOTES.

PROPOSED CONDITIONS



LEGEND:

- 1125 — EX. 1' CONTOUR ELEVATION INTERVAL
- 1137 — 1.0' CONTOUR ELEVATION INTERVAL
- DRAINAGE ARROW
- SILT FENCE / BIOROLL - GRADING LIMIT
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(800) 252-1166 TOLL FREE
(612) 454-0002 LOCAL

1" = 50'-0"

CivilSite GROUP
4931 W. 35TH ST, SUITE 200
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-615-0060

KW hoar wilson architects

PROJECT

SIENNA ON THE PARK

4600 & 4660 77TH ST W, EDINA, MN 55435

CHASE REAL ESTATE, INC.

2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew R. Finken

DATE 7/13/18 LICENSE NO. 44763

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
6/29/18	CITY SUBMITTAL
7/13/18	CITY RESUBMITTAL

REVISION SUMMARY

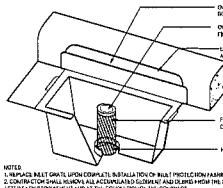
DATE	DESCRIPTION

PROJECT NUMBER: 17215

SWPPP - EXISTING & PROPOSED CONDITIONS

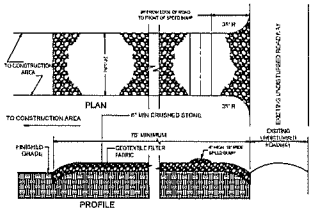
SW1.0

© COPYRIGHT 2017 CSG, LLC



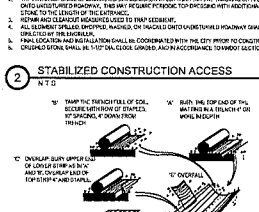
NOTES:
1. REPLACE INLET GRATE UPON COMPLETE INSTALLATION OF INLET PROTECTION FABRIC.
2. CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE DRAINAGE SYSTEM AFTER EACH STORM EVENT AND AT THE COMPLETION OF THE CONTRACT.
3. PER PERMITS APPLY VALLEY STANDARD PLATE LIFTONE.

1 CURB INLET FILTER
NTS

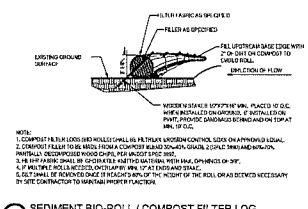


NOTES:
1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND UNSURFACED ROADWAY.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO UNSURFACED ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE.
3. REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, PUSHED OR ORIGINATING ONTO UNSURFACED ROADWAY SHALL BE REMOVED AS OFTEN AS MAY BE REQUIRED TO KEEP THE ROADWAY CLEAN.
5. FINAL LOCATION AND INSTALLATION SHALL BE COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION ACTIVITIES.
6. CRUSHED STONE SHALL BE 1-1/2" DIA. CLOSE GRADED, AND IN ACCORDANCE TO MNDOT SECTION 2118.

2 STABILIZED CONSTRUCTION ACCESS
NTS

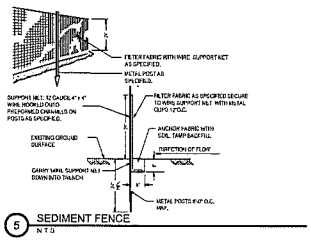


3 EROSION BLANKET
NTS



NOTE:
1. COMPOST FILTER LOGS SHALL BE FILTERLOX EROSION CONTROL SOCK OR APPROVED EQUAL.
2. COMPOST FILLER TO BE MADE FROM A COMPOST BLEND 30%-40% GRADE, 2 GRADE SHREDDED BARK, PARTIALLY DECOMPOSED WOOD CHIPS, PER MNDOT SPEC 3882.
3. FILTER FABRIC SHALL BE EROSION STOP, NETTED MATERIAL WITH MAX. OPENINGS OF 3/8".
4. IF MULTIPLE ROLLS NECESSARY, OVERLAP BY MIN. 12" AT ENDS AND SEAL.
5. LOGS SHALL BE REINFORCED ONCE THE HEIGHT OF THE HEIGHT OF THE ROLL OR ARE DEEMED NECESSARY BY SITE CONTRACTOR TO MAINTAIN PROPER FUNCTION.

4 SEDIMENT BIO-ROLL / COMPOST FILTER LOG
NTS



5 SEDIMENT FENCE
NTS

GENERAL SWPPP REQUIREMENTS AND NOTES:

THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH A CONSTRUCTION ACTIVITY THAT DISTURBS SITE SOIL OR HAS IMPLEMENTS A POLLUTANT CONTROL MEASURE IDENTIFIED IN THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST COMPLY WITH THE REQUIREMENTS OF THE MN GENERAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (DATED AUGUST 1, 2013 WITH EXPIRATION DATE OF AUGUST 31, 2018 OR THE MOST RECENT VERSION) AND ANY LOCAL GOVERNING AGENCY PERMIT JURISDICTION CONCERNING EROSION AND SEDIMENTATION CONTROL.

PART III STORMWATER DISCHARGE DESIGN REQUIREMENTS

SWPPP (PART III.A)

THE NATURE OF THIS PROJECT HAS BE CONSIDERED WITH WHAT IS REFLECTED IN THE SET OF CONSTRUCTION PLANS AND SPECIFICATIONS. SEE THE SWPPP PLAN SHEETS AND SWPPP NARRATIVE ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATES FOR ADDITIONAL SITE SPECIFIC SWPPP INFORMATION, THE PLANS SHOW LOCATIONS AND TYPES OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMPS. STANDARD DETAILS ARE ATTACHED TO THIS SWPPP DOCUMENT.

THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:
1. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE.
2. INSTALL PERIMETER SILT FENCE AROUND SITE.
3. INSTALL CHANGE CONSTRUCTION FLOWING AROUND AND INSTALL TEMPORARY AREAS.
4. CLEAR AND GRUB FOR TEMPORARY SEDIMENT BASIN / POND BASIN.
5. CONSTRUCT TEMPORARY SEDIMENT BASIN / POND (PART III.B).
6. CLEAR AND GRUB REMAINDER OF SITE.
7. STRIP AND STOCKPILE TOPSOIL.
8. ROUGH GRADING OF SITE.
9. STABILIZE DISTURBED AREAS AND STOCKPILES.
10. INSTALL SANITARY SEWER, WATER MAIN, STORM SEWER AND SERVICES.
11. INSTALL SILT FENCE / INLET PROTECTION AROUND SITE.
12. INSTALL DIRECT SECTION.
13. INSTALL CURB AND GUTTER.
14. DEFINE BUILD DIRECTIFIS.
15. FINAL GRADE BUILDING PADS, INSTALL SEED AND MULCH.
16. REMOVE ACCUMULATED SEDIMENT FROM BASIN / POND.
17. FINAL GRADE, PREP BASIN FOR SEED AND DISCHARGE COMPACT SOILS IN INFILTRATION AREAS (PART III.C).
18. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SUBLANDSCAPING, REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.

RECORDS RETENTION (PART III.E):

THE SWPPP (OPTIONAL OR EDITED) INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PLANNER WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER THE FIELD OFFICE OR BINDER ON SITE VEHICLE DURING NORMAL WORKING HOURS.

ALL OWNERS MUST KEEP THE SWPPP ALONG WITH THE FOLLOWING ADDITIONAL RECORDS, ON FILE FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOT AS OUTLINED IN PART E.C. THESE DOCS NOT INCLUDE ANY RECORDS AFTER SUBMITTAL OF THE NOT.

1. THE FINAL SWPPP.
2. ANY OTHER STORMWATER RELATED REPORTS REQUIRED FOR THE PROJECT;
3. RECORDS OF ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION (SEE PART III.E. INSPECTIONS AND MAINTENANCE);
4. ALL PERMANENT OPERATIONAL AND MAINTENANCE AGREEMENTS THAT HAVE BEEN IMPLEMENTED, INCLUDING ALL RIGHT OF WAY, CONTRACTS, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE; AND
5. ALL REQUIRED CALCULATIONS REQUIRED FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS.

SWPPP IMPLEMENTATION RESPONSIBILITIES:

1. THE OWNER AND CONTRACTOR SHALL PERMITTED (SEE IDENTIFIED BY THE NPDES PERMIT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTOR'S SUBCONTRACTORS.
3. CONTRACTOR SHALL PROVIDE A WRITTEN ASSESSMENT OF THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL MAPS TO CONTRACTOR ALL INSTALLATION AND MAINTENANCE OF BMPS AND IMPLEMENTATION OF THE SWPPP.
4. CONTRACTOR SHALL PROVIDE PERSONNEL MEETING THE TRAINING REQUIREMENTS OF THE NPDES PERMIT TO CONDUCT INSPECTIONS AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ON-SITE INSPECTION WITHIN 24 HOURS UPON REQUEST BY NPCA. CONTRACTOR SHALL PROVIDE TRAINING DOCUMENTATION FOR THESE INDIVIDUALS REQUIRED BY THE NPDES PERMIT. THIS TRAINING DOCUMENTATION SHALL BE RECORDED IN NOT IN THE SWPPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED. DOCUMENTATION SHALL INCLUDE:
   4.1. NAMES OF THE PERSONNEL ASSOCIATED WITH THE PROJECT THAT ARE REQUIRED TO BE TRAINED PER PART B.2.1 OF THE PERMIT;
   4.2. DATES OF TRAINING AND NAMES OF INSTRUCTOR AND EACH PERSON TRAINED;
   4.3. CONTENT OF TRAINING COURSE OR WORKSHOP INCLUDING THE NUMBER OF HOURS OF TRAINING.
5. FOLLOWING FINAL STABILIZATION AND THE TERMINATION OF COVERAGE FOR THE NPDES PERMIT, THE OWNER IS REQUIRED TO MAINTAIN LONG TERM INFILTRATION AND MAINTENANCE OF A MINOR THE PERMANENT STORMWATER MANAGEMENT SYSTEMS.

PART IV, CONSTRUCTION ACTIVITY REQUIREMENTS

CONSTRUCTION ACTIVITY FIELD REQUIREMENTS:

1. ALL FIELD REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT AND CONSTRUCTION POLLUTION PREVENTION PLAN (CPPP).
2. THE CONTRACTOR MUST IMPLEMENT THE SWPPP AND PROVIDE SUPERVISION, DIRECTION AND ELECTRONIC MANAGEMENT.
3. THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES APPLIED TO PREVENT ADDITIONAL EROSION OR DISTURBANCE DURING CONSTRUCTION ACTIVITIES. PREVENTION OF SEDIMENT TRANSPORT OFF SITE, ETC. WHENEVER THE FOLLOWING STORMWATER POLLUTION PREVENTION CONSTRUCTION ACTIVITY FIELD REQUIREMENTS SHALL BE FURNISHED BY THE CONTRACTOR.

EROSION PREVENTION (PART IV.B):

THE CONTRACTOR IS RESPONSIBLE FOR PLANNING FOR AND IMPLEMENTING APPROPRIATE CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES THAT MINIMIZE EROSION, SO THAT THE INSPECTION AND MAINTENANCE REQUIREMENTS OF PART IV.E. ARE COMPLIED WITH. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED (E.G. WITH FENCE, BARRICADE, CONES, OR FLAGGING) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS.

ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT NOT LATER THAN THE NEXT WORK DAY WHEN EARTH DISTURBING ACTIVITIES ARE CEASE, FOR AT LEAST 14 DAYS. TEMPORARY STOCKPILES (WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS) (E.G. CLEAN AGGREGATE STOCKPILES, EXCAVATION EXCAVATION STOCKPILES, SAND USED FOR BEDDING) AND THE CONSTRUCTED BASIN COMPONENTS OF HIGH DENSITY PARKING LOTS AND GARAGE SURFACES ARE EXAMPLE FROM THIS REQUIREMENT BUT MUST COMPLY WITH PART IV.C.

SOILS WITHIN 200 FEET OF A PUBLIC WATER WAS DESIGNATED BY THE MINNESOTA DNR MUST BE STABILIZED WITHIN 24 HOURS DURING PERIOD OF NON-WORKING TIMES.

THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER.

STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES MUST BE COMPLETED WITHIN 14 DAYS AFTER CONNECTING TO A SURFACE WATER AND CONSTRUCTION IN THAT PORTION OF THE DITCH WAS TEMPORARILY OR PERMANENTLY CEASED.

TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.

PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.

SEED NOTES (PART III.A.4.A):

ALL SEED MIXES AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MNDOT SEEDING MANUAL.

GENERAL RECOMMENDATIONS:
MAINTAIN FULLY BEFORE SEEDING THE SOIL SHALL BE TILLED TO A MINIMUM DEPTH OF 3 INCHES.

TEMPORARY EROSION CONTROL SEEDING, MULCHING & BLANKET.

SEED
- TEMPORARY SEED SHALL BE MNDOT SEED MIX 21-112 (NURSE MIX) AT 120 LB PER ACRE (2.75 LBS PER 1000 SQ FT) AND SHALL BE APPLIED AT A SEEDING RATE OF 100 LB/ACRE.

MULCH
- IMMEDIATELY AFTER SEEDING WITHIN 24 HOURS, MNDOT TYPE 1 MULCH SHOULD BE APPLIED TO PROTECT AND ENHANCE SEED GERMINATION. MULCH SHALL BE APPLIED AT 90% COVERAGE (2 TONS PER ACRE OF GRAIN MULCH).

SLOPES
- 3:1 (HORIZONTAL) OR FLATTER MUST SHALL BE COVERED WITH MULCH
- SLOPES STEEPER THAN 3:1 OR DITCH SECTIONS SHALL BE COVERED WITH EROSION CONTROL BLANKET.
- SEE PLAN FOR WHERE DETAILED DITCH AND BASIN FLOWS, EROSION CONTROL TREATMENTS.

SEDIMENT CONTROL. (PART IV.C):

SEDIMENT CONTROL PRACTICES MUST MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS.
A. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS THAT ARE DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK CHECK DAMS, BIO ROLLS, SEDIMENT CONTROL PRACTICES) DO NOT APPROPRIATE FOR SITE CONDITIONS.
B. IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR PERMANENT BMPS MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO REFLECT THESE ADDITIONAL PRACTICES AS REQUIRED IN PART III.A.4. THROUGH C.
C. IN ORDER TO MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES, THERE SHALL BE NO UNBROKEN SLOPES LENGTH OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER.

SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED IN ACCORDANCE WITH PART IV.D.

THE TIMING OF THE INSTALLATION OF SEDIMENT CONTROL PRACTICES MAY BE ADJUSTED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES. ANY SUCH ALTERNATE ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED. HOWEVER, SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVENT. THE ACTIVITY IS NOT COMPLETE.

ALL STORMWATER INLETS MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SURFACES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A CITY CONCERNING EFFECTIVE DISCHARGE WITHOUT HAVE BEEN IDENTIFIED AND THE PERMITEE HAS RECEIVED WRITTEN CORRESPONDENCE FROM THE JURISDICTIONAL AUTHORITY (E.G. CITY COUNCIL/TOWNSHIP BOARD/CITY ENGINEER) EVIDENCING THE NEED FOR REMOVAL. THE WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP OR AVAILABLE WITHIN 72 HOURS UPON REQUEST. ANY DAMAGED INLET PROTECTION MUST BE REPAIRED OR REPLACED IN A TIMELY MANNER. THE SPECIFIC INLET PROTECTION CAN BE REMOVED TO ALLEVIATE THE IMMEDIATE SAFETY CONCERN, HOWEVER, EFFORTS TO OBTAIN WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP AND AVAILABLE WITHIN 72 HOURS UPON REQUEST. PERMANENTLY REMOVING INLET PROTECTION BASED ON A SPECIFIC SAFETY CONCERN MUST STILL BE DOCUMENTED FROM THE JURISDICTIONAL AUTHORITY WITHIN 30 DAYS OF REMOVAL.

TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER SILT FENCE, SEDIMENT CONTROLS, AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER.

A STABILIZED TRACKING PAD OF SEDIMENT FROM THE CONSTRUCTION SITE, OR PAVED STREETS WITHIN THE SITE, MUST BE VACATED BY BMPS SUCH AS STONE PADS, CONCRETE OR STEEL WASHRACKS, OR EQUIVALENT SYSTEMS. DIRECT DIVERTING MUST BE USED IF SUCH BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED OUTSIDE THE PROJECT (SEE PART IV.E.A.D.).

THE PERIMETER MUST INCLUDE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. VEGETATION IS NOT REQUIREMENTS THE FUNCTION OF THE SPECIFIC AREA OF THE SITE DICTATES THAT IT IS COMPACTED. METHODS FOR REDUCING COMPACTION INCLUDE THE USE OF TRACKED EQUIPMENT, AND DIVERTING OFF AREAS TO BE LEFT UNCOMPACTED. METHODS TO PRESERVE TOPSOIL INCLUDE STRIPPING AND STOCKPILING TOPSOIL PRIOR TO GRADING OR EXCAVATION OPERATIONS.

THE PERIMETER MUST INSTALL TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN PART III.B OF THIS PERMIT.

DEWATERING AND BASIN DRAINING (PART IV.D):

DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) RELATED TO THE CONSTRUCTION ACTIVITY THAT MAY HAVE TURBIDIT OR SEDIMENT LADEN DISCHARGE WATER MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE WHENEVER POSSIBLE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMPS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER, DOWNSTREAM LANDOWNERS OR WETLANDS. THE CONTRACTOR MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIPRAP, SANDBAGS, PLASTIC SPREADING OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES. ADEQUATE SEDIMENTATION CONTROL MEASURES ARE REQUIRED FOR DISCHARGE WATER THAT CONTAINS DISPERSED SOILS.

FILTER BACKWASH WATER MUST BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATED INTO THE SITE IN A MANNER THAT EQUAL SOIL CHARGE, HYDRAULIC DISCHARGE OF THE BACKWASH WATER TO SANITARY SEWER IS ALLOWED WITH PERMISSION OF THE SANITARY SEWER AUTHORITY.

INSPECTIONS AND MAINTENANCE (PART IV.E):

THE CONTRACTOR IS RESPONSIBLE AT ALL TIMES FOR THE MAINTENANCE AND PROPER OPERATION OF EROSION AND SEDIMENT CONTROL FACILITIES. THE CONTRACTOR SHALL AT A MINIMUM INSPECT, MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL FACILITIES AND SOIL STABILIZATION MEASURES ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER AND WITHIN 7 DAYS AFTER THAT. CONTINUE INSPECTION ACTIVITIES UNTIL LAND DISTURBING ACTIVITY HAS CEASED. THE MAN THE THE CONTRACTOR SHALL PERFORM THE RESPONSIBILITIES AT LEAST WHEN ANY WORK TAKES CONVERSED ESTABLISHED. INSPECTIONS MUST INCLUDE STABILIZED AREAS, EROSION PREVENTION MEASURES, DITCHES, BMPS AND INFILTRATION AREAS.

BASED ON INSPECTION RESULTS THE CONTRACTOR MAY MODIFY THE SWPPP IN ORDER TO PREVENT POLLUTANTS FROM LEAVING THE SITE VIA STORM WATER RUNOFF. THIS MODIFICATION MUST BE MADE WITHIN 7 CALENDAR DAYS OF THE INSPECTION UNLESS OTHERWISE REQUIRED BY THE TERMS OF THE PERMIT, LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS.

INSPECTION REPORTS MUST BE RECORDED WITHIN 24 HOURS IN WRITING AND KEPT ON FILE. BY THE CONTRACTOR AS AN INTEGRAL PART OF THE SWPPP ON SITE AND THE NOT FOR AT LEAST 3 YEARS FROM THE DATE OF COMPLETION OF THIS PROJECT.

ALL PERMITTEE CONTROL DEVICES MUST BE REPAIRED, REPLACED ON SUPPLY AS ALLE WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR THE REPAIRS AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

REMOVE ALL DEBRIS AND SEDIMENT DEPOSITED ON SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS, AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED TOPSOIL. THIS REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS.

SEE ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATES FOR SITE SPECIFIC INSPECTIONS AND MAINTENANCE REQUIREMENTS.

POLLUTION PREVENTION MANAGEMENT (PART IV.F):

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE SITE.

SOLID WASTE: COLLECTED DEBRIS, ASPHALT AND CONCRETE RUBBLE, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MINNESOTA POLLUTION CONTROL AGENCY (MPCA) DISPOSAL REQUIREMENTS.

HAZARDOUS MATERIALS: OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTEWATER PROPERLY DISPOSED OF. NO WASHING DISCHARGES ARE ALLOWED ON SITE.

CONCRETE WASHOUT: ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUID TO ENTER THE GROUND IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS ON AREAS. EQUIPMENT SHOULD BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. CONCRETE WASHOUT MAY ALSO OCCUR OFF SITE ACCORDING TO THE APPROPRIATE REGULATIONS.

FUELING OPERATION PLAN: ALL FUELING SHALL TAKE PLACE AT THE DESIGNATED FUELING LOCATION AND ACCORDING TO BEST PRACTICES FOR SITE FUELING OPERATIONS AS TO MINIMIZE THE POTENTIAL FOR SPILLS.

SPILL PREVENTION PLAN: ALL SPILLS SHALL BE IMMEDIATELY CLEANED UP AND PROPERLY DISPOSED OF. THE SITE SUPERINTENDENT, WHO IS RESPONSIBLE FOR DAY-TO-DAY ON-SITE CONSTRUCTION OPERATIONS WILL BE THE SPILL PREVENTION COORDINATOR AND WILL BE RESPONSIBLE FOR APPLICATION CLEAN UP PROCEDURES. POSTING CLEAN UP RECOMMENDATIONS, AND ENSURING PROPER CLEAN UP TRAINING OF APPROPRIATE PERSONNEL.

SANITARY AND SEPTIC WASTE: SANITARY OR SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION. FOR THE USE OF THE CONTRACTOR'S EMPLOYEES. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS WILL COLLECT SANITARY WASTE FROM PORTABLE UNITS.

FINAL STABILIZATION (PART IV.G):

THE CONTRACTOR MUST ENSURE FINAL STABILIZATION OF THE SITE ACCORDING TO THE CONDITIONS IN THE NPDES GENERAL PERMIT PART B. SECTION G. THE CONTRACTOR MUST SUBMIT A NOTICE OF TERMINATION (N.O.T.) WITHIN 30 DAYS AFTER FINAL STABILIZATION IS COMPLETE OR WITHIN 7 DAYS AFTER DECLARING THE SITE OR PORTION OF THE SITE THAT HAS NOT MADE FINAL STABILIZATION / INSTALLATION / REMOVAL OF NOT ON SITE AND EXISTS PROVIDING TRAINING.
1. COPY OF THE NOTICE OF TERMINATION FOR THE NOT ON THE OWNER, THE ORIGINAL OWNER OWNER MUST PROVIDE A SWPPP TO THE NEW OWNER THAT SPECIFICALLY ADDRESSES THE REMAINING CONSTRUCTION ACTIVITY. SEE THE SWPPP PLAN SHEETS AND SWPPP NARRATIVE, ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATES AND SWPPP PLAN SHEETS FOR FINAL STABILIZATION REQUIRED.

TRAINING (PART III.A.2)

DESIGN ENGINEER: MATTHEW R. PAVEK P.E.
TRAINING COURSE: DESIGN OF SWPPP
TRAINING ENTITY: UNIVERSITY OF MINNESOTA
INSTRUCTOR: JOHN O'HARNAN
DATES OF TRAINING COURSE: 5/15/2011 - 5/16/2011
TOTAL TRAINING HOURS: 12
RE-CERTIFICATION: 3/16/2017 (8 HOURS), EXP. 03/31/2020

OWNER INFORMATION

OWNER
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W
BURNSVILLE, MN 55337
CONTACT:
JOE MCCLIMAN
952-890-6660

AREAS AND QUANTITIES (PART III.A.4.B&C):

SITE AREA CALCULATIONS

	EXISTING		PROPOSED LOT 1		PROPOSED LOT 2		LOT 2 ROW DEDICATION	
BUILDING COVERAGE	78,110 SF	16.5%	80,587 SF	27.6%	49,625 SF	30.5%	0 SF	0.0%
ALL PAVEMENTS	285,874 SF	60.3%	85,190 SF	30.3%	48,720 SF	29.9%	7,600 SF	40.0%
ALL NON-PAVEMENT	309,950 SF	73.2%	124,045 SF	42.4%	64,421 SF	39.6%	11,506 SF	60.0%
TOTAL SITE AREA	473,834 SF	100.0%	294,422 SF	100.0%	162,766 SF	100.0%	19,106 SF	100.0%
IMPERVIOUS SURFACE								
EXISTING CONDITION	362,984 SF	76.6%						
PROPOSED

ATTACHMENT A: SITE SPECIFIC SWPPP DOCUMENT

PROJECT NAME: PENTAGON
PROJECT LOCATION (BRIEFLY DESCRIBE WHERE CONSTRUCTION ACTIVITY OCCURS, INCLUDE ADDRESS IF AVAILABLE.)
ADDRESS: 4600 & 4660 W 77TH ST
CITY OR TOWNSHIP: EDINA
STATE: MN
ZIP CODE: 55435
LATITUDE/LOCATION OF APPROXIMATE CENTROID OF PROJECT: 44.862832 N -93.341934 E
METHOD OF LAT/LONG COLLECTION (CIRCLE ONE): GPS (INLINE TOOL) USGS TOPOGRAPHIC
ALL CITIES WHERE CONSTRUCTION WILL OCCUR: EDINA
ALL COUNTIES WHERE CONSTRUCTION WILL OCCUR: HENNEPIN
ALL TOWNSHIPS WHERE CONSTRUCTION WILL OCCUR: N/A

PROJECT SIZE (NUMBER OF ACRES TO BE DISTURBED): 10.9 AC

PROJECT TYPE (CIRCLE ONE): RESIDENTIAL COMMERCIAL/INDUSTRIAL ROAD CONSTRUCTION
RESIDENTIAL & RD CONSTRUCTION OTHER (DESCRIBE): XXXXX

CUMULATIVE IMPERVIOUS SURFACE (TO THE NEAREST TENTH ACRE)
EXISTING AREA OF IMPERVIOUS SURFACE: 4.4 AC
POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE: 6.3 AC
TOTAL NEW AREA OF IMPERVIOUS SURFACE: 6.3 AC

RECEIVING WATERS

WATER BODY ID	NAME OF WATER BODY	WATER BODY TYPE	SPECIAL WATER? (Y/N)	IMPAIRED WATER (Y/N)
27-0623-00	EDINA	LAKE	N	Y
07020312-518	NINEMILE	CREEK	N	Y
.	.	.	.	.
.	.	.	.	.

DATES OF CONSTRUCTION
CONSTRUCTION START DATE: 06/2018
ESTIMATED COMPLETION DATE: 12/2019

GENERAL CONSTRUCTION PROJECT INFORMATION
DESCRIBE THE CONSTRUCTION ACTIVITY (WHAT WILL BE BUILT, GENERAL TIMELINE, ETC). ASSUMED 18 MONTH CONSTRUCTION PERIOD OF TWO MULTI-FAMILY APARTMENT BUILDINGS AND OTHER SITE, GRADING, UTILITY, AND LANDSCAPING IMPROVEMENTS.
DESCRIBE SOIL TYPES FOUND AT THE PROJECT: MOSTLY A-B TYPE SOILS WITH SOME LAYERS OF PEAT AND DEEP D-TYPE SOILS.

SITE LOCATION MAP - ATTACH MAPS (U.S. GEOLOGIC SURVEY 7.5 MINUTE QUADRANGLE; NATIONAL WETLAND INVENTORY MAPS OR EQUIVALENT) SHOWING THE LOCATION AND TYPE OF ALL RECEIVING WATERS, INCLUDING WETLANDS, DRAINAGE DITCHES, STORMWATER PONDS, OR BASINS, ETC. THAT WILL RECEIVE RUNOFF FROM THE PROJECT. USE ARROWS SHOWING THE DIRECTION OF FLOW AND DISTANCE TO THE WATER BODY.

GENERAL SITE INFORMATION (B.A)
1. DESCRIBE THE LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS). INCLUDE THE TIMING FOR INSTALLATION AND PROCEDURES USED TO ESTABLISH ADDITIONAL TEMPORARY BMPS AS NECESSARY. (B.A.A.)
THE PROJECT IS PROTECTED BY TWO (W) MAIN BMPS, SILT FENCE AND INLET PROTECTION DEVICES. THE SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE AND MONITORED AS NECESSARY. INLET PROTECTION DEVICES WILL BE INSTALLED IN ALL CATCH BASINS ON THE SITE AND ANY OFF SITE THAT WILL RECEIVE STORMWATER RUNOFF FROM THIS SITE. AS THE PROJECT PROGRESSES ADDITIONAL BMPS SUCH AS EROSION CONTROL BLANKET MAY BE UTILIZED.
2. ATTACH TO THIS SWPPP A TABLE WITH THE ANTICIPATED QUANTITIES FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS (B.A.A.B) SEE PAGE SW1.3
3. ATTACH TO THIS SWPPP A SITE MAP THAT INCLUDES THE FOLLOWING FEATURES (B.A.3.A-F)
EXIST AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED WITHIN THE PROJECT LIMITS.

LOCATIONS OF IMPERVIOUS SURFACES AND SOIL TYPES.
- EXISTING AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED WITHIN PROJECT LIMITS.
- LOCATION OF AREAS NOT TO BE DISTURBED.
- LOCATION OF AREAS OF PHASED CONSTRUCTION.
- ALL SURFACE WATERS AND EXISTING WETLANDS WITHIN ONE MILE FROM THE PROJECT BOUNDARIES THAT WILL RECEIVE STORMWATER RUNOFF FROM THE SITE (EXHIBITABLE ON MAPS SUCH AS USGS 7.5 MINUTE QUADRANGLE MAPS OR EQUIVALENT, WNI/NWI SURFACE WATERS RECEIVING RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY WILL NOT FIT ON THE PLAN SHEET, THEY MUST BE IDENTIFIED WITH AN ARROW, INDICATING BOTH DIRECTION AND DISTANCE TO THE SURFACE WATER.
- METHODS TO BE USED FOR FINAL STABILIZATION OF ALL EXPOSED SOIL AREA

4. WILL STORMWATER MITIGATION MEASURES BE REQUIRED AS THE RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL, OR OTHER REQUIRED LOCAL, STATE OR FEDERAL REVIEW OF THE PROJECT? NO
IF YES, DESCRIBE HOW THESE MEASURES WERE ADDRESSED IN THE SWPPP. (B.A.4)
N/A
5. IS THE PROJECT LOCATED IN A KARST AREA SUCH THAT ADDITIONAL MEASURES WOULD BE NECESSARY OF PROJECT DRINKING WATER SUPPLY MANAGEMENT AREAS AS DESCRIBED IN MINN. R. CHAPTERS 7050 AND 7060? NO
IF YES, DESCRIBE THE ADDITIONAL MEASURES TO BE USED. (B.A.7)
N/A
6. DOES THE SITE DISCHARGE TO A CALCEREOUS FEN LISTED IN MINN. R. 7050.0180, SUBP. 6 B? NO
IF YES, A LETTER OF APPROVAL FROM THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES MUST BE OBTAINED PRIOR TO APPLICATION FOR THIS PERMIT. (PART I.B.8 AND PART III.A.8)
7. DOES THE SITE DISCHARGE TO A WATER THAT IS LISTED AS IMPAIRED FOR THE FOLLOWING POLLUTANTS OR STRESSORS: PHOSPHORUS, TURBIDITY, DISSOLVED OXYGEN OR BIOTIC IMPAIRMENT? USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: WWW.PCA.STATE.MN.US/WATER/STORMWATER/STORMWATER-C.HTML
N/A
IF NO, SKIP TO TRAINING
DOES THE IMPAIRED WATER HAVE AN APPROVED TOTAL MAXIMUM DAILY LOADS (TMDL) WITH AN APPROVED WASTE LOAD ALLOCATION FOR CONSTRUCTION ACTIVITY? NO
IF YES
A. LIST THE RECEIVING WATER, THE AREAS OF THE SITE DISCHARGING TO IT, AND THE POLLUTANT(S) IDENTIFIED IN THE TMDL.
B. LIST THE BMPS AND ANY OTHER SPECIFIC CONSTRUCTION STORMWATER RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN THE TMDL.
IF THE SITE HAS A DISCHARGE POINT WITHIN ONE MILE OF THE IMPAIRED WATER AND THE WATER FLOWS TO THE IMPAIRED WATER BUT NO SPECIFIC BMPS FOR CONSTRUCTION ARE IDENTIFIED IN THE TMDL, THE ADDITIONAL BMPS IN APPENDIX A (C.1, C.2, C.3 & C.4-INFOUT STREAMS) MUST BE ADDED TO THE SWPPP AND IMPLEMENTED. (B.A.7). THE ADDITIONAL BMPS ONLY APPLY TO THOSE PORTIONS OF THE PROJECT THAT DRAIN TO ONE OF THE IDENTIFIED DISCHARGE POINTS.
N/A
8. IDENTIFY ADJACENT PUBLIC WATERS WHERE THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES (DNR) HAS DECLARED "WORK IN WATER RESTRICTIONS" DURING FISH SPAWNING TIMEFRAMES
N/A

SELECTION OF A PERMANENT STORMWATER MANAGEMENT SYSTEM (B.D.)
1. WILL THE PROJECT CREATE A NEW CUMULATIVE IMPERVIOUS SURFACE GREATER THAN OR EQUAL TO ONE ACRE? YES
IF YES, A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE CUMULATIVE NEW IMPERVIOUS SURFACES MUST BE RETAINED ON SITE (SEE PART III.D OF THE PERMIT) THROUGH INFILTRATION UNLESS PROHIBITED DUE TO ONE OF THE REASONS IN PART III.D.1.J. IF INFILTRATION IS PROHIBITED IDENTIFY OTHER METHOD OF OTHER VOLUME REDUCTION (E.G., FILTRATION SYSTEM, WET SEDIMENTATION BASIN, REGIONAL PONDING OR EQUIVALENT METHOD
2. DESCRIBE WHICH METHOD WILL BE USED TO TREAT RUNOFF FROM THE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT (III.D)
- WET SEDIMENTATION BASIN
- INFILTRATION/FILTRATION
- REGIONAL PONDS
- COMBINATION OF PRACTICES

INCLUDE ALL CALCULATIONS AND DESIGN INFORMATION FOR THE METHOD SELECTED. SEE PART III.D OF THE PERMIT FOR SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH METHOD.

INFILTRATION / FILTRATION / REGIONAL PONDING

CALCULATIONS ARE WITHIN THE SITE STORMWATER MANAGEMENT REPORT AND PART OF THIS SWPPP AS ATTACHMENT D.
3. IF IT IS NOT FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME, DESCRIBE WHY. THIS CAN INCLUDE PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALLATION OF ANY PERMANENT STORMWATER MANAGEMENT PRACTICES. DESCRIBE WHAT OTHER TREATMENT, SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, WILL BE IMPLEMENTED TO TREAT RUNOFF PRIOR TO DISCHARGE TO SURFACE WATERS. (III.D)
IT IS FEASIBLE TO MEET REQUIREMENT FOR WATER QUALITY VOLUME.
4. FOR PROJECTS THAT DISCHARGE TO TROUT STREAMS, INCLUDING TRIBUTARIES TO TROUT STREAMS, IDENTIFY METHOD OF INCORPORATING TEMPERATURE CONTROLS INTO THE PERMANENT STORMWATER MANAGEMENT SYSTEM.
N/A

EROSION PREVENTION PRACTICES (IV.B)
DESCRIBE THE TYPES OF TEMPORARY EROSION PREVENTION BMPS EXPECTED TO BE IMPLEMENTED ON THIS SITE DURING CONSTRUCTION:
1. DESCRIBE CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES TO MINIMIZE EROSION. DELINEATE AREAS NOT TO BE DISTURBED (E.G., WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) BEFORE WORK BEGINS.
SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE.
2. DESCRIBE METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES (E.G., MULCHES, HYDRAULIC TACKIFIERS, EROSION BLANKETS, ETC.):
TEMPORARY EROSION PROTECTION WILL BE SEED AND MULCH AND EROSION BLANKETS WHERE REQUIRED, WITH PERMANENT COVER BEING EITHER SOD OR LANDSCAPE FEATURES.
3. DESCRIBE METHODS OF DISSIPATING VELOCITY ALONG STORMWATER CONVEYANCE CHANNELS AND AT CHANNEL OUTLETS (E.G., CHECK DAMS, SEDIMENT TRAPS, RIP RAP, ETC.):
SOD WILL BE UTILIZED ALONG CHANNELS AND RIP RAP AT CHANNEL.
4. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE INVERTED PERIMETERS (NOTE THAT MULCH, HYDRAULIC SOIL TACKIFIERS, HYDROMULCHES, ETC. ARE NOT ACCEPTABLE SOIL STABILIZATION METHODS FOR ANY PART OF A DRAINAGE DITCH OR SWALE.)
FINAL STABILIZATION OF SWALES WILL BE SOD
5. DESCRIBE METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS (E.G., RIP RAP, SPLASH PADS, GABIONS, ETC.)
RIP RAP WILL BE UTILIZED AT PIPE OUTLETS
6. DESCRIBE METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE DISCHARGE, UNLESS INFEASIBLE (E.G., DIRECT STORMWATER FLOW TO VEGETATED AREAS):
DISCONNECTED IMPERVIOUS AREA AND INFILTRATION AREAS WILL BE UTILIZED
7. FOR DRAINAGE OR DIVERSION DITCHES, DESCRIBE PRACTICES TO STABILIZE THE NORMAL WETTED PERIMETER WITHIN 200 LINEAL FEET OF THE PROPERTY EDGE OR POINT OF DISCHARGE TO SURFACE WATER. THE LAST 200 LINEAL FEET MUST BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO SURFACE WATERS AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED FOR ALL DISCHARGES TO SPECIAL, IMPAIRED OR "WORK IN WATER RESTRICTIONS", ALL OTHER REMAINING PORTIONS OF THE TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER, PROPERTY EDGE AND CONSTRUCTION IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.
N/A, NO DITCHES ON SITE.
8. DESCRIBE ADDITIONAL EROSION PREVENTION MEASURES THAT WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION (E.G., CONSTRUCTION PHASING, MINIMIZING SOIL DISTURBANCE, VEGETATIVE BUFFERS, HORIZONTAL SLOPE GRADING, SLOPE DRAINWATER/RAINING, ETC.)
OTHER EROSION CONTROL PRACTICES INCLUDE BUT ARE NOT LIMITED TO: MINIMIZING SITE EXPOSURE WHEN POSSIBLE.
9. IF APPLICABLE, INCLUDE ADDITIONAL REQUIREMENTS IN APPENDIX A PART C.3 REGARDING MAINTAINING A 50-FOOT BUFFER ZONE OR INSTALLING REDUNDANT BMPS FOR PORTIONS OF THE SITE THAT DRAIN TO SPECIAL WATERS).
N/A
10. IF APPLICABLE, DESCRIBE ADDITIONAL EROSION PREVENTION BMPS TO BE IMPLEMENTED AT THE SITE TO PROTECT PLANNED INFILTRATION AREAS
MINIMIZE SITE EXPOSURE IN AREAS ADJACENT TO INFILTRATION AREAS.

SEDIMENT CONTROL PRACTICES (IV.C)
DESCRIBE THE METHODS OR SEDIMENT CONTROL BMPS TO BE IMPLEMENTED AT THIS SITE DURING CONSTRUCTION TO MINIMIZE SEDIMENT IMPACTS TO SURFACE WATERS INCLUDING CURB AND GUTTER SYSTEMS
1. DESCRIBE METHODS TO BE USED FOR DOWN GRADIENT PERIMETER CONTROL:
SILT FENCE WILL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE SITE
2. DESCRIBE METHODS TO BE USED TO CONTAIN SOIL STOCKPILES:
SEED AND MULCH AS WELL AS EROSION CONTROL BLANKETS WILL BE UTILIZED AS NECESSARY
3. DESCRIBE METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION:
SEE INLET PROTECTION DETAILS
4. DESCRIBE METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES:
THE PROJECT WILL UTILIZE A ROCK CONSTRUCTION ENTRANCE.
5. DESCRIBE METHODS, IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO FINAL STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA:
SILT FENCE TO BE INSTALLED IMMEDIATELY AFTER GRADING TO PROTECT INFILTRATION AREAS.
6. DESCRIBE METHODS TO BE USED TO MINIMIZE SOIL COMPACTION AND PRESERVE TOP SOIL (UNLESS INFEASIBLE) AT THIS SITE.
LIGHT TRACKED EQUIPMENT WILL BE USED. TOPSOIL WILL BE STRIPPED AND STOCKPILED
7. DESCRIBE PLANS TO PRESERVE A 50-FOOT NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE AND A SURFACE WATER OR PLANS FOR REDUNDANT SEDIMENT CONTROLS IF A BUFFER IS INFEASIBLE:
DOUBLE ROW OF SILT FENCE WILL BE INSTALLED ALONG WETLAND. PROJECT WILL NOT DISTURB WITHIN 200 FEET OF WETLAND.
8. DESCRIBE PLANS FOR USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) SEE PART IV.C.10 OF THE PERMIT:
N/A
9. IS THE PROJECT REQUIRED TO INSTALL A TEMPORARY SEDIMENT BASIN DUE TO 10 OR MORE ACRES DRAINING TO A COMMON LOCATION OR 5 ACRES OR MORE IF THE SITE IS WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER?
NO
IF YES, DESCRIBE (ON ATTACH PLANS) SHOWING HOW THE BASIN WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH PART III.C OF THE PERMIT.
N/A

DEWATERING AND BASIN DRAINING (IV.D)
1. WILL THE PROJECT INCLUDE DEWATERING OR BASIN DRAINING? NO
IF YES, DESCRIBE MEASURES TO BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER AND METHOD TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS (SEE PART IV.D OF THE PERMIT)
N/A
2. WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER? NO
IF YES, DESCRIBE HOW FILTER BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED (SEE PART III.D.3. OF THE PERMIT)
N/A

ADDITIONAL BMPS FOR SPECIAL WATERS AND DISCHARGES TO WETLANDS (APPENDIX A, PARTS C AND D)
1. SPECIAL WATERS. DOES YOUR PROJECT DISCHARGE TO SPECIAL WATERS? NO
2. IF PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMWATER MANAGEMENT PRACTICES, THEN OTHER TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS IS REQUIRED PRIOR TO DISCHARGE TO SURFACE WATERS, DESCRIBE WHAT OTHER TREATMENT WILL BE PROVIDED.
N/A
3. DESCRIBE EROSION AND SEDIMENT CONTROLS FOR EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE TO A SPECIAL WATERS. AND TEMPORARY SEDIMENT BASINS FOR AREAS THAT DRAIN FIVE OR MORE ACRES DISTURBED AT ONE TIME.
N/A
4. DESCRIBE THE UNDISTURBED BUFFER ZONE TO BE USED (NOT LESS THAN 100 LINEAR FEET FROM THE SPECIAL WATER).
N/A
5. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PRE AND POST PROJECT RUNOFF RATE AND VOLUME FROM THE 1, AND 2-YEAR 24-HOUR PRECIPITATION EVENTS REMAINS THE SAME.
N/A
6. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL MINIMIZE ANY INCREASE IN THE TEMPERATURE OF TROUT STREAM RECEIVING WATERS RESULTING IN THE 1, AND 2-YEAR 24-HOUR PRECIPITATION EVENTS.
N/A
7. WETLANDS. DOES YOUR PROJECT DISCHARGE STORMWATER WITH THE POTENTIAL FOR SIGNIFICANT ADVERSE IMPACTS TO A WETLAND (E.G., CONVERSION OF A NATURAL WETLAND TO A STORMWATER POND)? YES OR NO
IF YES, DESCRIBE THE WETLAND MITIGATION SEQUENCE THAT WILL BE FOLLOWED IN ACCORDANCE WITH PART D OF APPENDIX A.
N/A

INSPECTIONS AND MAINTENANCE (IV.E)
DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE:
- ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS, AND WITHIN (7) DAYS AFTER THAT

INSPECTIONS MUST INCLUDE STABILIZED AREAS, EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND INFILTRATION AREAS.
INSPECTOR WILL FOLLOW REQUIREMENTS SPECIFIED ABOVE AND FILL OUT "ATTACHMENT B - CONSTRUCTION STORMWATER INSPECTION CHECKLIST"
1. Describe practices for storage of building products with a potential to leach pollutants to minimize exposure to stormwater:
ALL BUILDING PRODUCTS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZE EXPOSURE
2. Describe practices for storage of pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials:
ALL LANDSCAPE THEATMENT CHEMICALS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZE EXPOSURE
3. Describe practices for storage and disposal of hazardous materials or toxic waste (e.g., oil, fuel, hydraulic fluids, paint solvents, petroleum-based products, wood preservative, additives, curing compounds, and acids) according to Minn. R. ch. 7045, including restricted access and secondary containment:
ALL HAZARDOUS WASTE WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING TO LOCAL AND STATE LAWS.
4. Describe collection, storage and disposal of solid waste in compliance with Minn. R. ch. 7035:
ALL CONSTRUCTION DEBRIS AND SOLID WASTE WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING TO LOCAL AND STATE LAWS
5. Describe management of portable toilets to prevent tipping and disposal of sanitary wastes in accordance with Minn. R. ch. 7080:
SANITARY AND SEPTIC SERVICES WILL BE PROVIDED TO WORKERS WITH PORTABLE FACILITIES MAINTAINED AS NEEDED BY THE PROVIDER.
6. Describe spill prevention and response for fueling and equipment or vehicle maintenance:
EMPLOYEES WILL BE TRAINED IN TECHNIQUES DESIGNED TO MINIMIZE SPILLS. VEHICLES AND EQUIPMENT SHALL BE CHECKED FOR LEAKS.
7. Describe containment and disposal of vehicle and equipment wash water and prohibiting engine degreasing on the site:
ALL CONSTRUCTION VEHICLES SHALL BE WASHED OFF SITE
8. Describe storage and disposal of concrete and other washout wastes so that wastes do not contact the ground:
ALL CONCRETE WASHOUT SHALL OCCUR OFF SITE.

FINAL STABILIZATION (IV.G)
1. DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS:
FINAL STABILIZATION WILL BE ACCOMPLISHED WITH PAVEMENT, SOD AND LANDSCAPE MATERIALS.
2. DESCRIBE PROCEDURES FOR COMPLETING FINAL STABILIZATION AND TERMINATING PERMIT COVERAGE (SEE PART IV.G.1-5):
UPON STABILIZATION DESCRIBED ABOVE, THE CONTRACTOR AND OWNER SHALL MUTUALLY TRANSFER THE NPDES PERMIT TO THE NEXT OWNER WITH DOCUMENTS DESCRIBING THE NATURE OF TERMINATION PROCEDURE.

DOCUMENTATION OF INFEASIBILITY: (IF APPLICABLE)

CivilSite GROUP
4931 W. 35TH ST, SUITE 200
ST. LOUIS PARK, MN 55416
CivilSiteGroup.com
612-823-6062

KW wallwilson architects

PROJECT
SIENNA ON THE PARK
4600 & 4660 77TH ST W, EDINA, MN 55435
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew R. Pavek
DATE 7/10/18 LICENSE NO. 44763

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
06/29/18	SITE PLAN REVIEW
07/10/18	CITY RESUBMITTAL

REVISION SUMMARY

DATE	DESCRIPTION

PROJECT NUMBER # 17121

SWPPP - ATTACHMENTS

SW1.2

© CIVILSITE GROUP, INC. DO NOT COPY

ATTACHMENT B: SWPPP INSPECTION FORM

NOTE: THIS INSPECTION REPORT DOES NOT ADDRESS ALL ASPECTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) CONSTRUCTION STORMWATER PERMIT ISSUED ON AUGUST 1, 2013. THE COMPLETION OF THIS CHECKLIST DOES NOT GUARANTEE THAT ALL PERMIT REQUIREMENTS ARE IN COMPLIANCE. IT IS THE RESPONSIBILITY OF THE PERMITTEE(S) TO READ AND UNDERSTAND THE PERMIT REQUIREMENTS.

FACILITY INFORMATION
SITE NAME:
FACILITY ADDRESS: PERMIT NUMBER:
CITY: STATE: ZIP CODE:

INSPECTION INFORMATION
INSPECTOR NAME: _____ PHONE NUMBER: _____
DATE (MM/DD/YYYY): _____ TIME: _____ AM / PM
IS THE INSPECTOR CERTIFIED IN SEDIMENT AND EROSION CONTROL AND IS IT DOCUMENTED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)? YES OR NO
IS THIS INSPECTION ROUTINE OR IN RESPONSE TO A STORM EVENT: YES OR NO
RAINFALL AMOUNT (IF APPLICABLE)
IS THE SITE WITHIN ONE AERIAL MILE OF A SPECIAL OR IMPAIRED WATER? YES OR NO
IF YES, FOLLOW APPENDIX A AND OTHER APPLICABLE PERMIT REQUIREMENTS

NOTE: IF NA IS SELECTED AT ANY TIME, SPECIFY WHY IN THE COMMENT AREA FOR THAT SECTION.

EROSION CONTROL REQUIREMENT (PART IV.B)

	Y	N	N/A
1. SOIL STABILIZATION WHERE NO CONSTRUCTION ACTIVITY FOR 14 DAYS? (7 DAYS WHEN AP APPLICABLE)	☐	☐	☐
2. HAS THE NEED TO DISTURB STEEP SLOPES BEEN MINIMIZED?	☐	☐	☐
3. ALL DITCHES STABILIZED (INC. BACK FROM POINT OF DISCHARGE WITHIN 24 HOURS) (NOT BLOCK)	☐	☐	☐
4. ARE TEMPORARY FOR DIVERSION BLOCKAGES?	☐	☐	☐
5. ARE APPROPRIATE BMPS INSTALLED TO PROTECT THE INLET/OUTLETS?	☐	☐	☐
6. DO PIPE OUTLETS HAVE ENERGY DISSIPATION?	☐	☐	☐

COMMENTS:

SEDIMENT CONTROL REQUIREMENT (PART IV.C)

	Y	N	N/A
1. PERIMETER CONTROL INSTALLED ON ALL DOWN GRADIENT PERIMETERS?	☐	☐	☐
2. PERIMETER CONTROL TRENCHED IN WHERE APPROPRIATE?	☐	☐	☐
3. SEDIMENT BASIN MAINTAINED AROUND ALL SURFACE WATERS?	☐	☐	☐
3.1. IF NO, HAVE REDUNDANT SEDIMENT CONTROLS BEEN INSTALLED?	☐	☐	☐
4. INLET PROTECTION ON ALL CATCH BASINS AND CULVERT INLETS?	☐	☐	☐
5. VEHICLE TRACKING BMPS MAINTAINED TO PROTECT ROADWAYS? (ALL BMPS PAVED)	☐	☐	☐
6. ALL TRACKED SEDIMENT REMOVED WITHIN 24 HOURS?	☐	☐	☐
7. ARE ALL INFILTRATION AREAS STAKED AND MARKED TO AVOID COMPACTION?	☐	☐	☐
8. ARE ALL INFILTRATION AREAS PROTECTED WITH A PRETREATMENT DEVICE?	☐	☐	☐
9. DO ALL STOCKPILES HAVE PERIMETER CONTROLS?	☐	☐	☐

COMMENTS:

MAINTENANCE-EROSION AND SEDIMENT CONTROL BMPS (PART IV.C)

	Y	N	N/A
1. ARE ALL PREVIOUSLY STABILIZED AREAS MAINTAINING 70% GROUND COVER?	☐	☐	☐
2. ANY DITCH EROSION OBSERVED?	☐	☐	☐
3. PERIMETER CONTROL—HAS SEDIMENT REACHED 1/2 THE HEIGHT OF THE DEVICE?	☐	☐	☐
4. ARE INLET PROTECTION DEVICES MAINTAINED AND FUNCTIONING PROPERLY?	☐	☐	☐

COMMENTS:

OTHER

	Y	N	N/A
1. ARE ALL MATERIALS THAT CAN LEACH POLLUTANTS UNDER COVER?	☐	☐	☐
2. HAS ANY SOIL BEEN TRACKED ONTO PAVED AREAS?	☐	☐	☐
3. DOES CONCRETE WASH WATER FLOW INTO A CONTAINED AREA?	☐	☐	☐
4. ARE ALL SOLID WASTES BEING PROPERLY DISPOSED OF?	☐	☐	☐
5. IS THE CONCRETE TO MAINTAIN AREA COMPLETELY CURBED?	☐	☐	☐
6. IS THE CONCRETE WASHOUT AREA MARKED WITH SIGN?	☐	☐	☐

	Y	N	N/A
7. WERE ANY DISCHARGES SEEN DURING THIS INSPECTION, SEDIMENT, WATER, OR OTHERWISE?	☐	☐	☐

7.1. IF YES, STATE THE EXACT LOCATION OF ALL POINTS OF DISCHARGE, PHOTOGRAPH THE DISCHARGE AND DESCRIBE THE DISCHARGE (COLOR, ODOR, FOAM, OIL SHEEN, ETC). HOW WILL IT BE REMOVED? HOW DID THE DISCHARGE HAPPEN? HOW MUCH WAS DISCHARGED? HOW WILL IT BE STOPPED, AND HOW LONG WILL IT TAKE TO STOP? IS THE DISCHARGE GOING INTO AN ADJACENT SITE? WAS THE DISCHARGE A SEDIMENT DELTA? IF YES, WILL THE DELTA BE RECOVERED WITHIN 7 DAYS?

8. WILL A PERMANENT STORMWATER MANAGEMENT SYSTEM BE UTILIZED IN THIS PROJECT AS REQUIRED AND IN ACCORDANCE WITH PART III.D OF THE PERMIT? DESCRIBE.

	Y	N	N/A
9. IS ANY DEWATERING OCCURRING ON SITE?	☐	☐	☐

9.1. IF YES, WHAT TYPE IS BEING USED? HOW MUCH WATER IS BEING DEWATERED? IS THE WATER CLEAR? WHERE IS THE WATER BEING DISCHARGED TO?

	Y	N	N/A
10. IS A COPY OF THE SWPPP LOCATED ON THE CONSTRUCTION SITE?	☐	☐	☐
11. HAS THE SWPPP BEEN FOLLOWED AND IMPLEMENTED ON SITE?	☐	☐	☐
12. IS A SEDIMENTATION BASIN REQUIRED FOR THIS PROJECT AS SPECIFIED IN THE PERMIT?	☐	☐	☐
12.1. IF YES, ARE THEY MAINTAINED AS SPECIFIED IN THE PERMIT?	☐	☐	☐
13. IS THE TOPSOIL ON THIS PROJECT BEING PRESERVED?	☐	☐	☐

13.1. IF YES, EXPLAIN HOW THE TOPSOIL IS BEING PRESERVED. IF NO, EXPLAIN WHY IT WAS INFEASIBLE.

	Y	N	N/A
14. ARE ALL INFILTRATION SYSTEMS MARKED TO AVOID COMPACTION?	☐	☐	☐
14.1. DO ALL INFILTRATION AREAS HAVE PRETREATMENT DEVICES?	☐	☐	☐

15. DESCRIPTION OF AREAS OF NON-COMPLIANCE NOTED DURING THE INSPECTION, RECORDED CORRECTIVE ACTIONS, AND RECOMMENDED UNTIL OF COMPLETION OF CORRECTIVE ACTIONS.

16. PROPOSED AMENDMENTS TO THE SWPPP:

17. POTENTIAL AREAS OF FUTURE CONCERN:

18. ADDITIONAL COMMENTS

DISCLOSURES:

- AFTER DISCOVERY, THE PERMIT REQUIRES MANY OF THE DEFICIENCIES THAT MAY BE FOUND IN THIS CHECKLIST BE CORRECTED WITHIN A SPECIFIED PERIOD OF TIME. SEE PERMIT FOR MORE DETAILS.
- THIS INSPECTION CHECKLIST IS AN OPTION FOR SMALL CONSTRUCTION SITES. LARGE CONSTRUCTION SITES AND LINEAR PROJECTS REQUIRE MORE EXTENSIVE/MORE LOCATION SPECIFIC INSPECTION REQUIREMENTS.
- THE PERMITTEE(S) SHARE RESPONSIBILITY FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS AS WELL AS EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT ACCORDING TO PART II.B.4., OR THE PROJECT HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MPCA.

ATTACHMENT C: MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEM

ATTACHMENT C - COMBINED
FACILITY MANAGEMENT SCHEDULE

1. ALL STORMWATER RETENTION, DETENTION AND TREATMENT BASINS MUST BE INSPECTED AT LEAST ONCE A YEAR TO DETERMINE THAT BASIN RETENTION AND TREATMENT CHARACTERISTICS ARE ADEQUATE. A STORAGE TREATMENT BASIN WILL BE CONSIDERED INADEQUATE IF SEDIMENT HAS DECREASED THE INFT STORAGE VOLUME BY 10 PERCENT OR DRY STORAGE VOLUME BY 25 PERCENT OF ITS ORIGINAL DESIGN VOLUME. BASED ON THIS INSPECTION, IF A STORMWATER BASIN REQUIRES SEDIMENT CLEANOUT, THE BASIN WILL BE RESTORED TO ITS ORIGINAL DESIGN CONTOURS AND VEGETATED STATE WITHIN ONE YEAR OF THE INSPECTION DATE.
2. ALL CATCH CHAMBERS, SUMP CATCH BASINS, SUMP MANHOLES, OUTLET STRUCTURES, CULVERTS, OUTFALL STRUCTURES AND OTHER STORMWATER FACILITIES FOR WHICH MAINTENANCE REQUIREMENTS ARE NOT OTHERWISE SPECIFIED HEREIN MUST BE INSPECTED IN THE SPRING, SUMMER AND FALL OF EACH YEAR. WITHIN 30 DAYS OF THE INSPECTION DATE, ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED SUCH THAT EACH STORMWATER FACILITY OPERATES AS DESIGNED AND PERMITTED. CONTRIBUTING DRAINAGE AREAS MUST BE KEPT CLEAR OF LITTER AND VEGETATIVE DEBRIS, INFLOW PIPES AND OVERFLOW SPILLWAYS KEPT CLEAR, INLET AREAS KEPT CLEAN, AND UNDESIRABLE VEGETATION REMOVED. EROSION IMPAIRING THE FUNCTION OR INTEGRITY OF THE FACILITIES, IF ANY, WILL BE CORRECTED, AND ANY STRUCTURAL DAMAGE IMPAIRING OR THREATENING TO IMPAIR THE FUNCTION OF THE FACILITIES MUST BE REPAIRED.
1. VOLUME CONTROL FACILITIES AND CONTRIBUTING DRAINAGE AREAS MUST BE INSPECTED EVERY THREE MONTHS DURING THE OPERATIONAL PERIOD (BETWEEN SPRING SNOWMELT AND FIRST SUBSTANTIAL SNOWFALL) AND MONITORED AFTER RAINFALL EVENTS OF 1 INCH OR MORE TO ENSURE THAT THE CONTRIBUTING DRAINAGE AREA IS CLEAR OF LITTER AND DEBRIS, INFLOW PIPES AND OVERFLOW SPILLWAYS ARE CLEAR, INLET AREAS ARE CLEAN, UNDESIRABLE VEGETATION IS REMOVED AND THERE IS NO EROSION IMPAIRING OR THREATENING TO IMPAIR THE FUNCTION OF A FACILITY. IF SEDIMENT HAS ACCUMULATED IN A INFILTRATION FEATURE, WITHIN 30 DAYS OF INSPECTION DEPOSITED SEDIMENTS MUST BE REMOVED, THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS MUST BE RESTORED, AND ANY SURFACE DISTURBANCE MUST BE STABILIZED. INSPECTION MUST ENSURE THAT SEDIMENT TRAPS AND FOREBAYS ARE TRAPPING SEDIMENT AND THAT MORE THAN 50 PERCENT OF THE STORAGE VOLUME REMAINS, THE CONTRIBUTING DRAINAGE AREA IS STABLE (I.E., NO EROSION IS OBSERVED), AND INLETS AND OUTLETS/OVERFLOW SPILLWAYS ARE IN GOOD CONDITION WITH NO EROSION. MAINTENANCE TECHNIQUES MUST MUST PROTECT THE INFILTRATION CAPACITY OF THE PRACTICE BY LIMITING SOIL COMPACTION TO THE GREATEST EXTENT POSSIBLE (E.G., BY USING LOW-IMPACT EARTH-MOVING EQUIPMENT).
4. UNDERGROUND STORAGE CHAMBERS MUST BE INSPECTED AT LEAST ONCE A YEAR TO ENSURE THAT ADEQUATE STORAGE CAPACITY REMAINS. CAPACITY WILL BE CONSIDERED INADEQUATE IF SEDIMENT HAS DECREASED THE STORAGE VOLUME BY 10 PERCENT OF ITS ORIGINAL DESIGN VOLUME. ACCUMULATED DEBRIS AND SEDIMENT WILL BE REMOVED, AND INLET AND OUTLET STRUCTURES WILL BE CLEARED OF ANY FLOW IMPEDIMENTS.

CivilSite GROUP
4931 W. 35TH ST, SUITE 204
ST. LOUIS PARK, MN 55416
CivilSite@Gmail.com
612-615-6060

KOLB WILSON ARCHITECTS

PROJECT
SIENNA ON THE PARK
4600 & 4650 77TH ST W, EDINA, MN 55435
CHASE REAL ESTATE, INC.
2140 COUNTY RD. 42 W, BURNSVILLE, MN 55337

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Matthew R. Flaven
DATE 7/17/18 LICENSE NO. 44700

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
10/19/17	CITY SUBMITTAL
7/17/18	CITY RESUBMITTAL

REVISION SUMMARY

DATE	DESCRIPTION

PROJECT NUMBER 17-120

SWPPP - ATTACHMENTS

SW1.3

© COPYRIGHT 2017 CIVILSITE GROUP