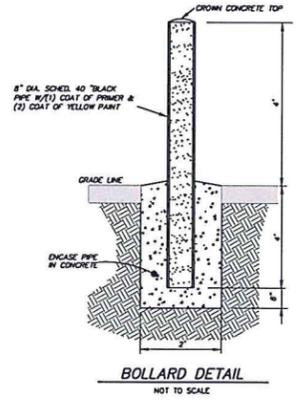
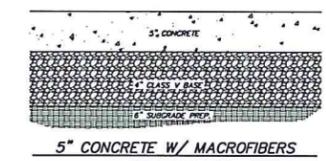
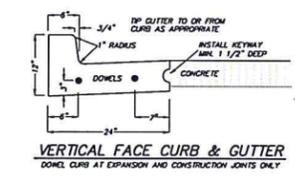
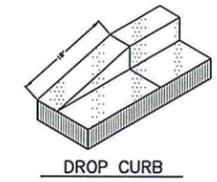


- PAVEMENT**
- P1 ON SITE EXTERIOR CONCRETE MATERIALS AND CONSTRUCTION MATERIALS SHALL CONFORM TO CITY OF BISMARCK SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. AIR CONTENT SHALL BE 5% TO 7% STRENGTH AT 28 DAYS SHALL BE 4000 PSI.
  - P2 STANDARD VERTICAL FACE CURB AND GUTTER. SEE NOTE THIS SHEET. TIP GUTTER AS APPROPRIATE.
  - P3 CITY SIDEWALK PER CITY OF BISMARCK SPECIFICATIONS - THICKEN SIDEWALK AT DRIVEWAYS TO 8" AND PROVIDE KEYWAY PER CITY SPECIFICATIONS.
  - P4 5" CONCRETE WITH MACROSYNTHETIC FIBERS AND 3" CLASS V BASE AND 6" SUBGRADE PREP. SEE DETAIL THIS SHEET. MACROSYNTHETIC FIBERS SHALL CONFORM TO ASTM 1116/C 1116M. TYPE III AND DOSAGE SHALL BE AS RECOMMENDED BY THE MANUFACTURER. SEE DETAIL THIS SHEET. JOINT SPACING SHALL NOT EXCEED EIGHT FEET.
  - P5 ISOLATION JOINTS WILL BE REQUIRED ALONG THE BUILDING, STOPS AND ALL FIXED ITEMS. LEAVE JOINT 1/2" LOW AND SEAL. ISOLATION JOINTS SHALL BE SEALED USING A ONE PART POLYURETHANE TYPE SEALANT.
  - P6 JOINT SPACING SHALL TYPICALLY BE SPACED AT 1-1/2 TIMES THE THICKNESS OF THE PAVEMENT (MEASURED IN INCHES) IN FEET (4" SWK EQUALS 6 FOOT SPACING). IN NO CASE SHALL THE JOINT SPACING EXCEED TWO TIMES THE THICKNESS.
  - P7 SUBGRADE PREPARATION UNDER AREAS TO BE PAVED SHALL BE 6" THICK AND SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS EXCEPT DENSITY SHALL BE 95% OF ASTM D 698.
  - P8 INSTALL BOLLARDS PER DETAIL THIS SHEET.

- SIGNAGE & PAVEMENT STRIPING**
- SS1 ALL NON-ADA STRIPING SHALL BE 4" WIDE NON REFLECTORIZED PAINT MEETING THE REQUIREMENTS OF AASHTO M28 APPLIED AT A RATE OF 110 SQUARE FEET PER GALLON. COLOR SHALL BE YELLOW. TYPICAL FOR ALL STRIPING UNLESS OTHERWISE NOTED.
  - SS2 ADA STRIPING FOR LANES AND SYMBOLS SHALL BE BLUE PAINT MEETING THE REQUIREMENT OF AASHTO M28 APPLIED AT A RATE OF 110 SQUARE FEET PER GALLON. PAINT FACE AND TOP OF CURB (6" WIDE) IN FRONT OF ALL HANDICAP STALLS.
  - SS3 PROVIDE AND INSTALL ADA SIGNS SECURED TO BUILDING.
  - SS4 PROVIDE AND INSTALL SIGN SECURED TO BUILDING THAT INDICATES "VAN ACCESSIBLE". SIGNS MUST INDICATE "100 FINE".



- LEGEND**
- EXISTING SANITARY SEWER
  - EXISTING WATERMAIN
  - EXISTING STORM SEWER
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING UNDERGROUND GAS
  - EXISTING UNDERGROUND CABLE TV
  - EXISTING VALVE
  - EXISTING FIRE HYDRANT
  - EXISTING FENCE
  - EXISTING CONCRETE
  - EXISTING CONTOUR
  - EXISTING GRADE
  - PROPOSED SANITARY SEWER
  - PROPOSED WATERMAIN
  - PROPOSED STORM SEWER
  - PROPOSED VALVE
  - PROPOSED FIRE HYDRANT
  - PROPOSED CONCRETE
  - PROPOSED CONTOUR
  - PROPOSED GRADE

**GENERAL LANDSCAPING NOTES FOR ALL SHEETS**

1. ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
2. PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
3. DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
4. ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OR 2" CRUSHED ROCK MULCH. LANDSCAPE FABRIC WITH A MINIMUM HEIGHT OF 4 OZ. YD. AND WHERE NECESSARY, 6" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BEDS.
5. ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
6. SOLITARY TREES DO NOT NEED TO BE EDGED AROUND, HOWEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MUTILLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
7. CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:  
FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
8. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.

**TOPSOIL NOTES**

1. TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACED FOR THE LANDSCAPE CONTRACTOR TO SPREAD AND FINISH GRADE. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.
2. TOPSOIL SHALL BE PLACED AND SEED AS SOON AS PRACTICAL TO MINIMIZE WIND AND WATER EROSION. BACKFILL BEHIND CURB AND GUTTERS AND SIDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROTECT THE IMPROVEMENTS.

**SEEDING NOTES**

1. CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.
2. FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET.
3. SEED SHALL BE DRILL SEEDING TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPREAD. AFTER SEED HAS BEEN SOIN, THE SOIL SHALL BE REPACKED IMMEDIATELY AFTER THE SEED IS APPLIED TO FIRM THE SOIL AROUND THE SEED. NO SEED SHALL BE PLACED ON DAYS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY IMBEDDED INTO THE SOIL.
4. SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SQUARE FOOT BEFORE ACCEPTANCE WILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT ADDITIONAL COMPENSATION THEREFOR, ANY SEED FOR AREAS THAT HAVE NOT GERMINATED, HAVE DIED, OR ARE DAMAGED TO THE EXTENT THAT REPLACEMENT IS REQUIRED TO CONFORM TO THE REQUIREMENTS OUTLINED ABOVE. THE CONTRACT WARRANTY PERIOD SHALL ALSO APPLY TO THIS ITEM.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EROSION SCARS OR WASHOUTS UNTIL THE DATE THAT FINAL SEED STAND IS ACCEPTED. SEE EROSION CONTROL PLAN FOR EROSION CONTROL METHODS.

**PLANT PALETTE**

SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QTY.
AM	AUTUMN BLAZE MAPLE	Acer rubrum 'Autumn Blaze'	2" Cal.	4
SS	SPRING SNOW CRABAPPLE	Malus 'Spring Snow'	1-1/2" Cal.	7
AL	ALPINE CURRANT	Ribes alpinum	2 Gallon	48
KF	KARL FOERSTER GRASS	Calamagrostis x acutiflora	2 Gallon	4
NF	NEON FLASH SPIREA	Spiraea japonica 'Neon Flash'	2 Gallon	8

**LANDSCAPING REQUIREMENTS**

REQUIRED INTERIOR LANDSCAPING:  
12 S.F. / SPACE = 730 S.F.  
3 SHRUBS / 20 SPACES = 11 SHRUBS  
1 TREE / 20 SPACES = 4 TREES

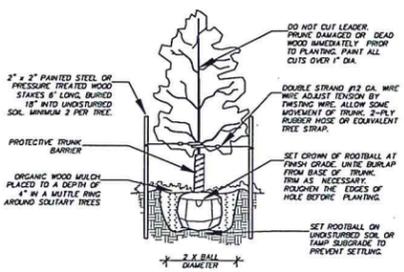
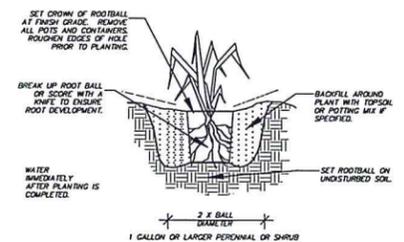
REQUIRED STREET TREES:  
3 PER 100 FEET = 7 TREES

REQUIRED PERIMETER PARKING:  
LESS THAN 100 SPACES = 4 FOOT WIDTH CONTINUOUS HEDGE

PROVIDED INTERIOR LANDSCAPING:  
852 S.F.  
12 SHRUBS  
4 TREES

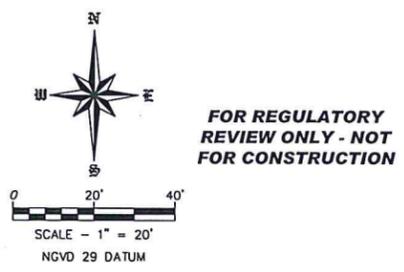
PROVIDED STREET TREES:  
7 TREES

PROVIDED PERIMETER PARKING:  
6 FOOT WIDTH CONTINUOUS HEDGE



**APPROVED BY PLANNING**  
*[Signature]*  
TITLE: *[Signature]* DATE: 4-26-18

**APPROVED BY FORESTRY**  
*[Signature]*  
TITLE: *[Signature]* DATE: 4-26-18



**FOR REGULATORY REVIEW ONLY - NOT FOR CONSTRUCTION**

**WARRANTY / DISCLAIMER**  
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**SAFETY NOTICE TO CONTRACTOR**  
In accordance with generally accepted construction practices the contractor shall be solely and completely responsible for the safety of the job site, including safety of all persons and property during performance of the work. The contractor shall apply continuously and not be limited to normal business hours.

**NOTICE TO CONTRACTOR**  
The location of existing underground utilities are shown in an approximate manner and have not been independently verified by the user or its representatives. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which may be occasioned by the Contractor's failure to locate and preserve any and all underground utilities.

**CALL BEFORE YOU DIG**  
NORTH DAKOTA  
UTILITIES UNDERGROUND LOCATION SERVICE  
1-800-795-0555

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DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

**SWENSON, HAGEN & COMPANY P.C.**  
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Surveying  
Professional Land Planning  
Civil Engineering  
Landscape & Site Design  
Construction Management

**GRADING, PAVING, & LANDSCAPE PLAN**  
LOT 3A OF LOT 3 BLOCK 3 TRILLIUM FOURTH ADDITION  
BISMARCK, NORTH DAKOTA

DRAWN BY: JR  
CHECK BY: UP  
DATE: 4-13-2018  
PROJ.#: 520-16  
COMPUTER FILE:  
P:\Bismarck\Trillium\  
Trillium 4th\  
LOT 3A OF LOT 3  
BK 3 SITE PLAN.dwg

**SHEET C3.0**