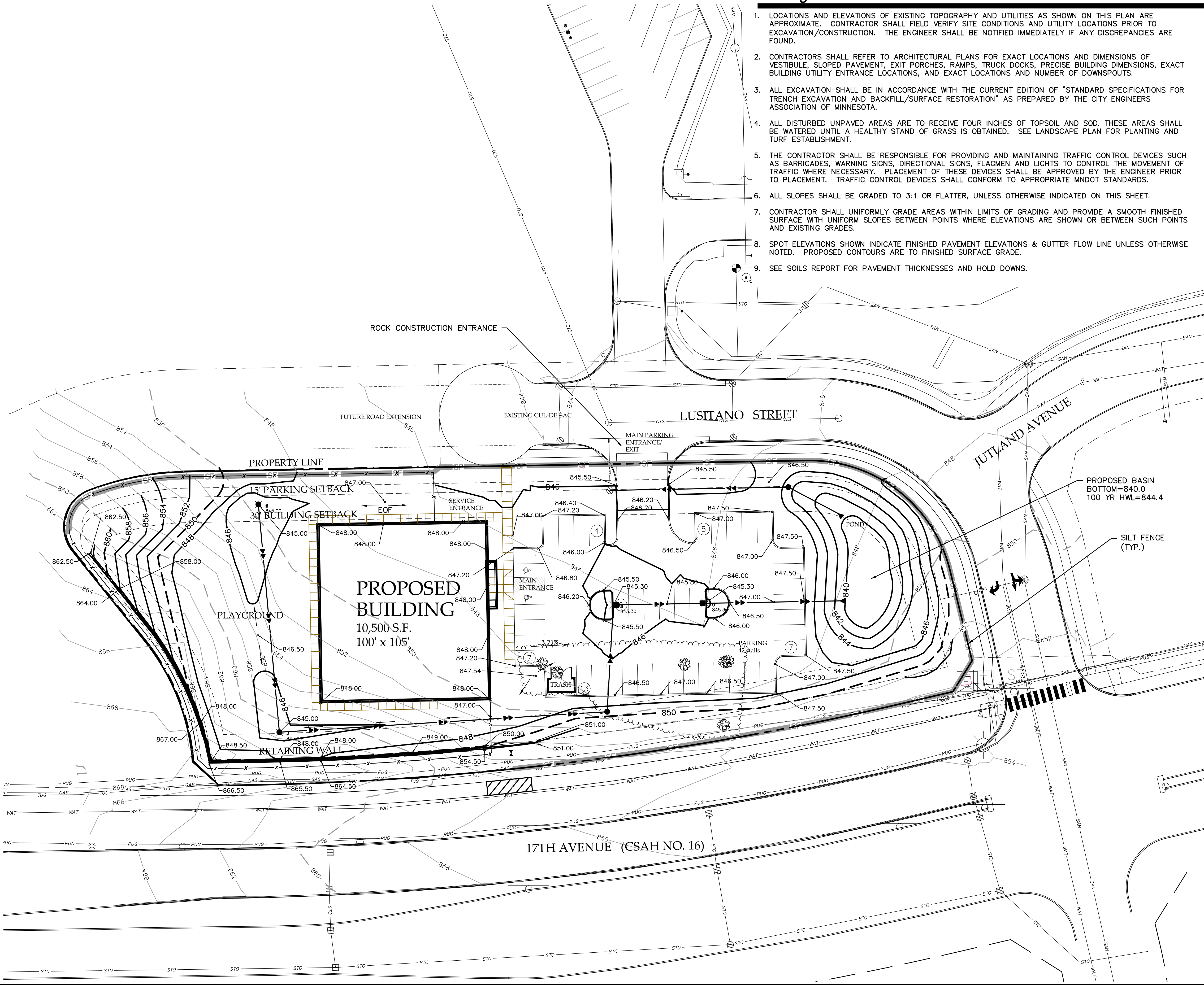




Grading Notes

1. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. CONTRACTORS SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVEMENT, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT LOCATIONS AND NUMBER OF DOWNSPOUTS.
3. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
4. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SOD. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. SEE LANDSCAPE PLAN FOR PLANTING AND TURF ESTABLISHMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
6. ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS SHEET.
7. CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
8. SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
9. SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.
10. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXISTS AFTER THE SITE GRADING AND UTILITY CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING AGENCIES.
11. CONTRACTOR SHALL PROVIDED A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
12. ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
13. PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A PROOF ROLL, AT MINIMUM, WILL BE REQUIRED ON THE SUBGRADE. PROOF ROLLING SHALL BE ACCOMPLISHED BY MAKING MINIMUM OF 2 COMPLETE PASSES WITH FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, IN EACH OF 2 PERPENDICULAR DIRECTIONS WHILE UNDER SUPERVISION AND DIRECTION OF THE INDEPENDENT TESTING LABORATORY. AREAS OF FAILURE SHALL BE EXCAVATED AND RECOMPACTED AS SPECIFIED HEREIN.
14. EMBANKMENT MATERIAL PLACED BENEATH BUILDINGS AND STREET OR PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD AS OUTLINED IN MNDOT 2105.3F1 AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
15. EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREETS OR PARKING AREA, SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3F2.
16. ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.
17. AN ISA CERTIFIED ARBORIST MUST BE HIRED TO COMPLETE PRUNING ON ANY PRESERVED TREES. PRUNING OF ANY OAK TREES MUST BE DONE BEFORE APRIL 1ST, OR SEAL THE WOUND/PRUNED AREA QUICKLY (WITHIN 15 MINUTES) WITH ONE COAT OF SHELLAC (PREFERABLY) OR A WATER-BASED PAINT.
18. AN ONSITE MEETING MUST TAKE PLACE WITH CITY NATURAL RESOURCES STAFF BEFORE TREE REMOVAL BEGINS. TREES BEING PRESERVED/REMOVED MUST BE CLEARLY MARKED BEFOREHAND.
19. TREE PROTECTION FENCING MUST BE IN PLACE AND INSPECTED BEFORE ANY GRADING WORK BEGINS
20. SOIL COMPACTION FOR ALL NON-STRUCTURAL LANDSCAPED AREAS (INCLUDING ISLANDS) SHALL BE BETWEEN 75%-80% OF STANDARD PROCTOR OR NOT EXCEED 300 PSI FOR A MINIMUM OF THE TOP 18" OF SOIL. COMPACTION SAMPLES ARE TO BE TAKEN AFTER FINAL GRADING OF THE SITE IS COMPLETE. THEY ARE TO BE SUBMITTED AND APPROVED BY THE CITY OF SHAKOPEE'S NATURAL DEPT. BEFORE INSTALLATION OF LANDSCAPING BEGINS. SAMPLES SHALL BE RANDOMLY TAKEN WITH EVEN MORE COVERAGE OF ALL LANDSCAPED AREAS.

A. SOILS NOT MEETING THIS REQUIREMENT ARE REQUIRED TO BE SUBSOILED TO RELIEVE COMPACTION.

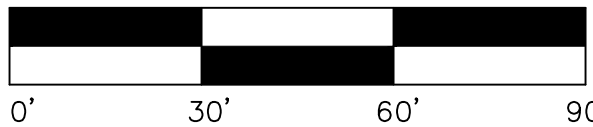
Erosion Control Notes

1. SILT FENCE WILL BE INSTALLED AROUND SITE IN ALL FILL AREAS AND LOCATIONS WHERE STORM WATER RUNOFF MAY LEAVE THE SITE, PRIOR TO ANY EXCAVATION/CONSTRUCTION ACTIVITIES.
2. ROCK CONSTRUCTION ENTRANCE WILL BE INSTALLED AT ALL CONSTRUCTION ENTRANCES.
3. SILTATION AND EROSION CONTROL: THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL THE EROSION AND SILTATION INCLUDING BUT NOT LIMITED CATCH BASIN INSERTS, ROCK CONSTRUCTION ENTRANCES, EROSION CONTROL BLANKET, AND SILT FENCE. CONTROL SHALL COMMENCE WITH GRADING AND CONTINUE THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR'S RESPONSIBILITY INCLUDES ALL IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER MAY DIRECT THE CONTRACTOR'S METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITION OF SILT OR MUD ON NEW OR EXISTING PAVEMENT OR IN EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AFFECTED AREAS SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER, ALL AT THE EXPENSE OF THE CONTRACTOR. ALL TEMPORARY EROSION CONTROL SHALL BE REMOVED BY THE CONTRACTOR AFTER THE TURF IS ESTABLISHED.
4. CONTRACTOR SHALL INSTALL TEMPORARY INLET PROTECTION (WMCO OR EQUIVALENT) AROUND ALL CATCH BASIN GRATE INLETS, AFFECTED BY THIS CONSTRUCTION.
5. ALL DISTURBED AREAS SHALL HAVE TEMPORARY PROTECTION OR PERMANENT COVER OVER EXPOSED SOIL AREAS IF NOT BEING ACTIVELY GRADED WITHIN SEVEN (7) DAYS. SEE THE SWPPP FOR MORE INFORMATION.
6. PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS. STREET SWEEPING SHALL BE COMPLETED DAILY.

Legend

EXISTING	PROPOSED	
		PROPERTY LINE
		INDEX CONTOUR
		INTERVAL CONTOUR
		CURB AND GUTTER
		SILT FENCE
		STORM SEWER
		WATER MAIN
		SANITARY SEWER
		RETAINING WALL
		SPOT ELEVATION
		FLOW DIRECTION
		TOP AND BOTTOM OF RETAINING WALL
		EROSION BLANKET

Call 48 Hours before digging:
811 or call811.com
Common Ground Alliance



Latest Revision Date: 06/20/17

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Date: 06/20/17 Sheet: 3 OF 8



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I hereby certify that this plan 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.

Ryan M. Bluhm
Date: 06/20/17 License No. 41257

Revisions:

06-20-17 Permit Set
:
:
:

Designed: RMB
Checked: RMB
Drawn: JAR
Record Drawing by/date:

Prepared for:

Ladybug Child Care Center
306 Lake Hazeltine Drive
Chaska, Minnesota

**Ladybug
Daycare**

Shakopee, Minnesota

**Preliminary Grading,
Drainage & Erosion
Control**