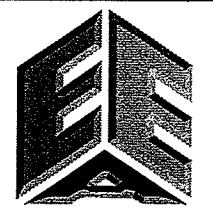


**NATURAL RESOURCE LEGEND**

Young Woodland

**NATURAL RESOURCE INVENTORY**

NATURAL RESOURCE	EXISTING	PROTECTION REQUIREMENT
WETLAND	N/A	-
FLOODPLAIN	N/A	-
YOUNG WOODLAND	0.82 Ac.	50% (0.375 Ac.)
MATURE WOODLAND	N/A	-
GROVE	N/A	-
SIGNIFICANT TREES	N/A	-
LINEAR WATER BODIES	N/A	-
NONLINEAR WATER BODIES	N/A	-



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FAX (847) 223-4564  
EMAIL: INFO@EEA-LTD.COM  
PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-003220  
EXPIRES: 04/30/2013

**RENOVATION  
SERENDIPITY CHILD CARE**  
35274 North Highway 12  
Inglede, Illinois

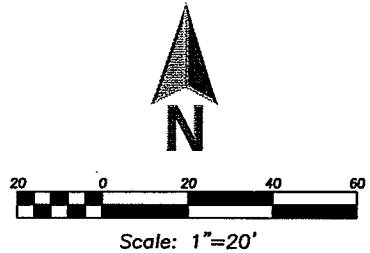
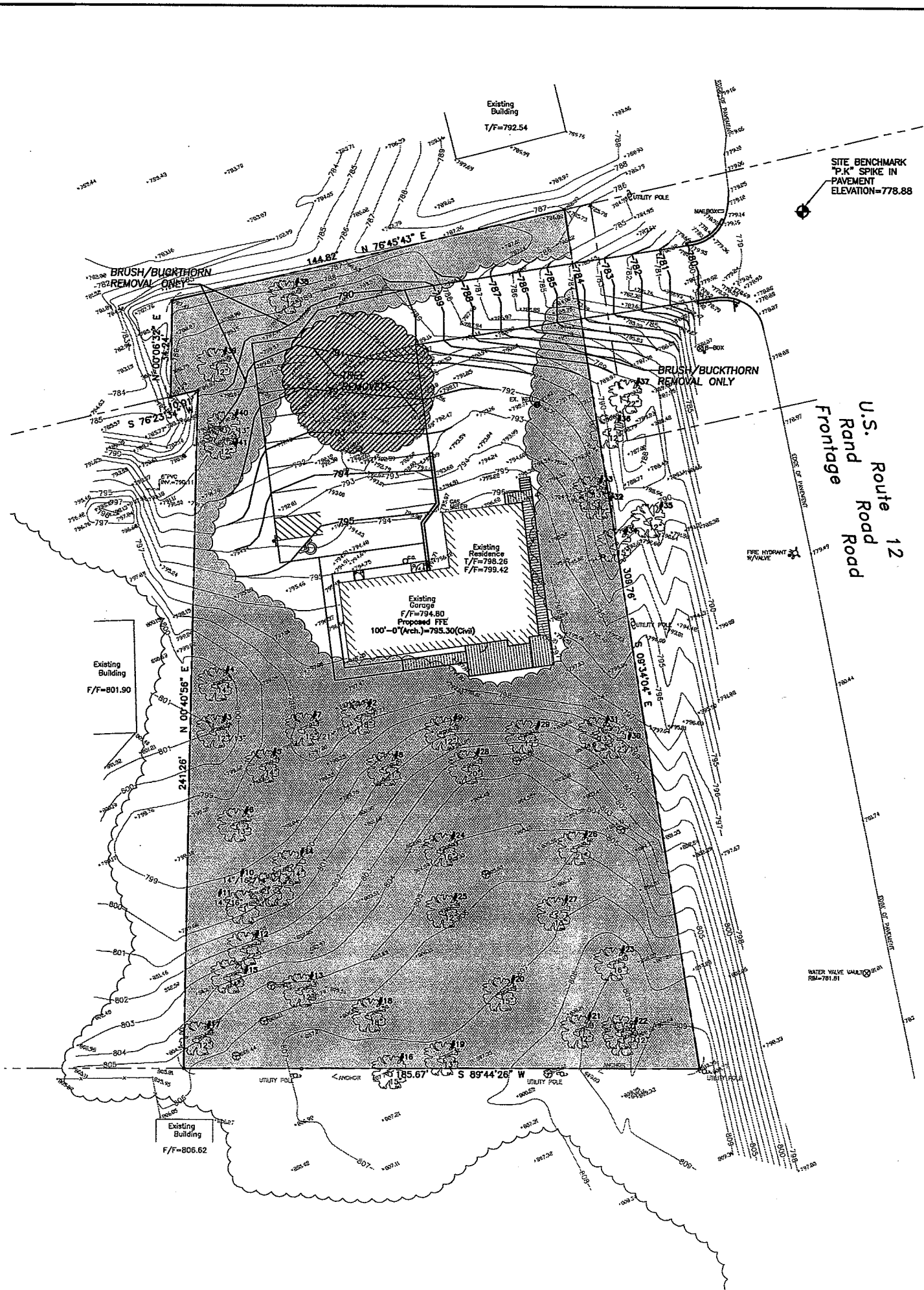
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CONSTRUCTION**  
Expiration Date: \_\_\_\_\_

No.	Date	Description
	01/04/12	LCP&D Site Plan Review

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DESIGN BY: SDC DATE: 10/10/2011  
APPROVED BY: GD PROJECT NO.: 11031.00

Sheet Title:  
**EXISTING  
CONDITIONS  
PLAN**

Sheet No.:  
**ECP-1**

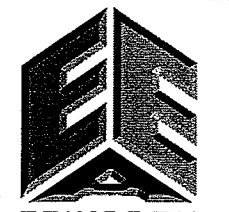


**RESOURCE PROTECTION LEGEND**

- Young Woodland
- Young Woodland (Impacted)

**RESOURCE PROTECTION INVENTORY**

NATURAL RESOURCE	EXISTING	PRESERVED	DISTURBED
WETLAND	N/A	-	-
FLOODPLAIN	N/A	-	-
YOUNG WOODLAND	0.82 Ac.	0.77 Ac.	0.05 Ac.
MATURE WOODLAND	N/A	-	-
GROVE	N/A	-	-
SIGNIFICANT TREES	N/A	-	-
LINEAR WATER BODIES	N/A	-	-
NONLINEAR WATER BODIES	N/A	-	-



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LICENSE NO. 184-003220  
EXPIRES: 04/30/2013

**RENOVATION  
SERENDIPITY CHILD CARE**  
35274 North Highway 12  
Inglede, Illinois

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CONSTRUCTION**  
Expiration Date: \_\_\_\_\_

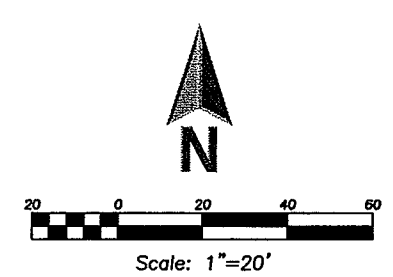
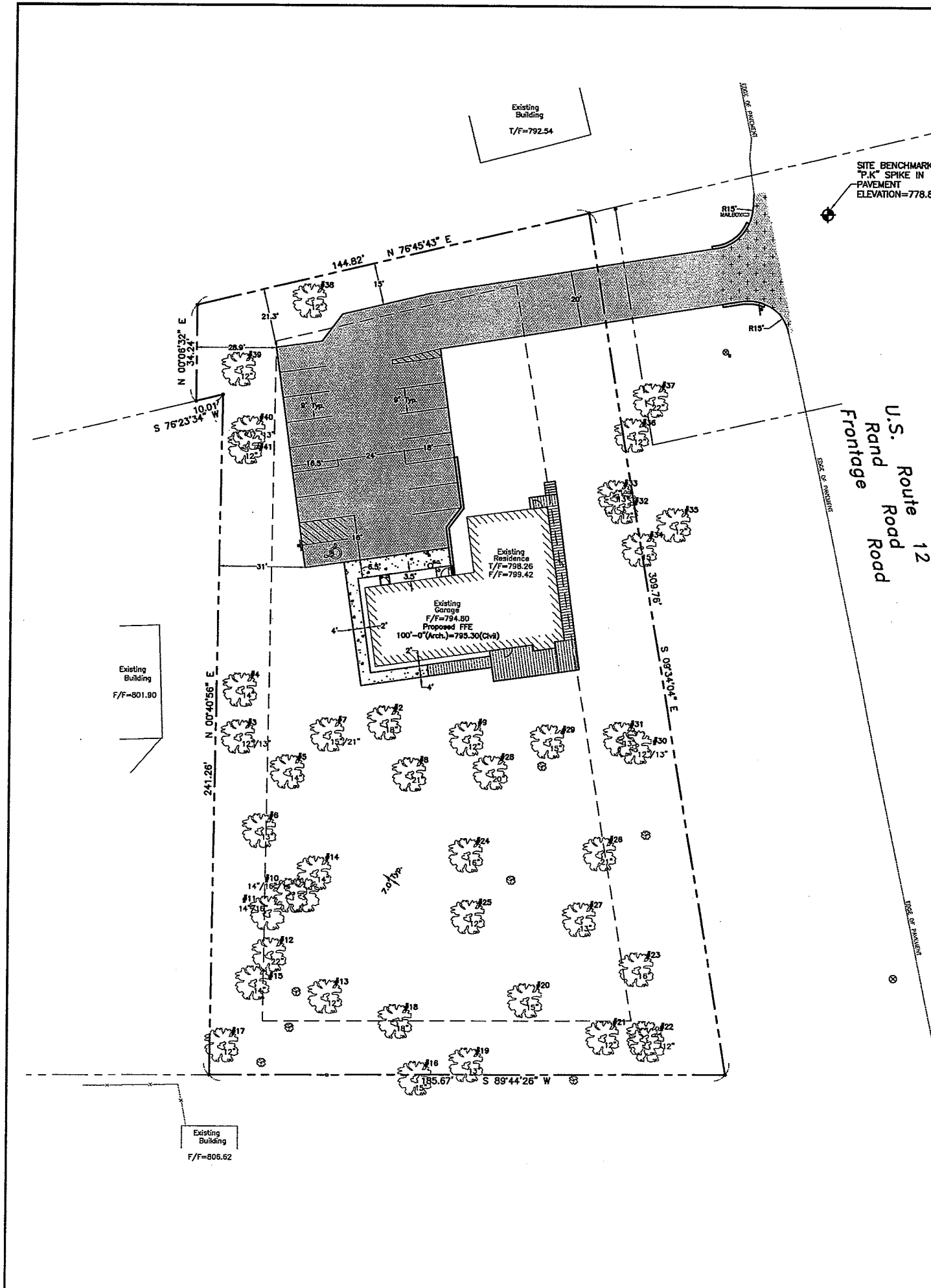
No.	Date	Description
	01/04/12	LCP&D Site Plan Review

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Design By: **SDC** Date: **10/10/2011**  
Approved By: **GD** Project No.: **11031.00**

Sheet Title:  
**NATURAL  
RESOURCE  
PLAN**

Sheet No.:  
**NRP-1**



**SITE CAPACITY CALCULATIONS**

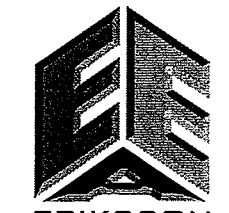
Site Area = Base Site Area  
 Gross Site Area = 1.07 Ac. (46,698 SF)

Net Site Area  
 Base Site Area = 1.07 Ac.  
 Floodplain/Wetland Areas = 0.00 Ac.  
 Net Site Area = 1.07 Ac.

Maximum Floor Area  
 Net Site Area = 1.07 Ac.  
 Maximum Floor Area Factor = 0.20  
 Maximum Floor Area = 0.21 Ac. = 9,340 SF  
 Actual Floor Area = 0.06 Ac. = 2,540 SF

Maximum Impervious Area  
 Net Site Area = 1.07 Ac.  
 Maximum Impervious Surface Ratio = 0.35  
 Maximum Impervious Surface Area = 0.375 Ac. = 16,344 SF  
 Actual Impervious Surface Area = 0.23 Ac. = 9,900 SF

Resource Protected Land Area  
 Young Woodlands Area = 0.82 Ac.  
 Young Woodlands Protection Ratio = 0.50  
 Minimum Young Woodlands Area = 0.375 Ac.  
 Actual Young Woodlands Area = 0.77 Ac.



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**RENOVATION  
SERENDIPITY CHILD CARE**  
 35274 North Highway 12  
 Ingleste, Illinois

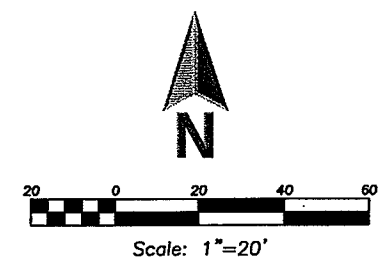
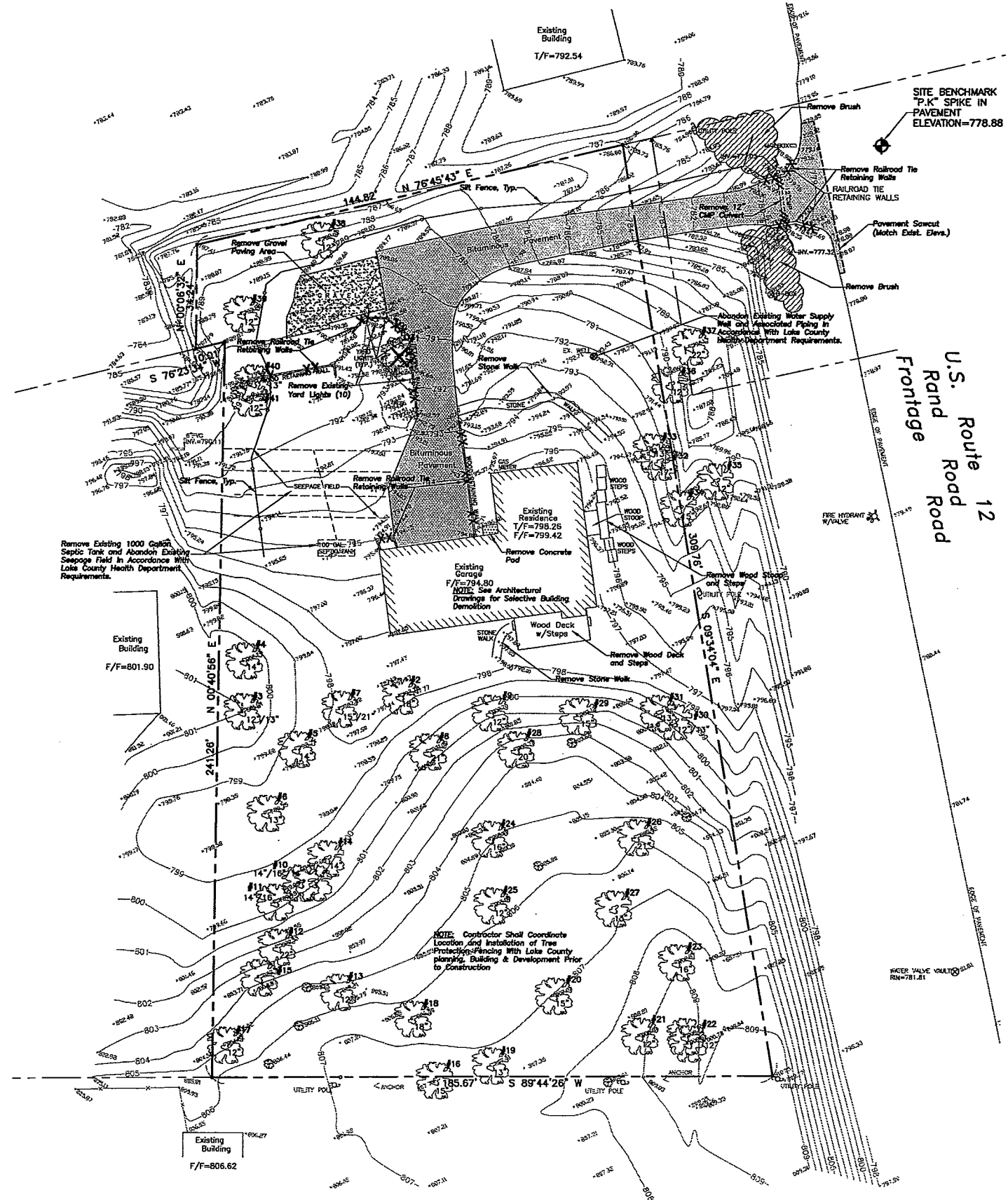
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 Design By: SDC Date: 10/10/2011  
 Approved By: GD Project No. 11031.00

Shoot Title:  
**SITE  
PLAN**

Sheet No:  
**SP-1**



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**RENOVATION  
SERENDIPITY CHILD CARE**

35274 North Highway 12  
Ingleside, Illinois

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No.	Date	Description
	01/04/12	LOP&D Site Plan Review

Sheet Title:

**SITE  
DEMOLITION  
PLAN**

Sheet No:

**C-100**

**DEMOLITION LEGEND**

- Utility Line Removal
- Bituminous Pavement Removal (Full Depth)
- Concrete Pavement Removal (Full Depth)
- Gravel Removal (Full Depth)
- Pavement Sawcut
- Retaining Wall Removal
- Structure Removal
- Tree Removal

**LEGEND**

- | EXISTING | PROPOSED |
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**DEMOLITION NOTES**

All Signs to be Removed shall be Salvaged and Stored in the Owner's Facility for Future Use as Applicable.

Contractor Shall Keep All Village Streets Free and Clear of Construction Related Dirt/Dust/Debris.

Coordinate Existing Utility Removal with Local Authorities and Utility Companies Having Jurisdiction.

Contractor Shall Coordinate Removal of Overhead Wire And Utility Poles With Authorities Having Jurisdiction And Respective Utility Providers.

The Existing Building is to Remain Operational During Construction. Therefore, the Temporary Relocation of All Necessary Utilities Serving the Existing Building Shall be Coordinated Prior to the Commencement of Construction Operations.

All Sawcutting Shall be Full Depth to Provide a Clean Edge to Match New Construction. Match Existing Elevations at Points of Connection for New and Existing Pavement, Curb, Sidewalk, etc. All Sawcut Locations Shown are Approximate and May be Field Adjusted to Accommodate Conditions, Joints, Material Type, etc. Remove Minimum Amount Necessary for Installation of Proposed Improvements.

Contractor Shall Provide and Shall be Responsible for Any Necessary Traffic Control and Safety Measures During Demolition and Construction Operations Within or Near the Public Roadway.

All Light Poles to be Removed from Private Property shall be Removed in Their Entirety, Including Base and All Appurtenances. Coordinate Abandonment of Electrical Lines With Electrical Engineer and Owner Prior to Demolition.

Perform Tree Pruning in All Locations Where Proposed Pavement and/or Utility Installation Encroach Within the Existing Drip Line of Trees to Remain. All Tranching Within the Drip Line of Existing Trees to Remain Shall be Done Rockily Away From Trunk if Roots in Excess of 1" Diameter are Exposed. Roots Must be Cut by Reputable Tree Pruning Service Prior to Any Transverse Tranching. Obtain Approval of the Architect Prior to Operations For a Variance From This Procedure.

Coordinate Tree Removal with Landscape Architect. All Trees to be Removed Shall be Removed in Their Entirety and Stumps Shall be Ground to Proposed Subgrade. Use As Much for Proposed Landscaping Where Applicable and Acceptable to Architect.

Provide Tree Protection Fencing Prior to Construction Operations. Maintain Throughout Construction.

**GENERAL NOTES**

The Location of Existing Underground Utilities, Such as Watermain, Sewers, Gas Lines, Etc., as Shown on the Plans, has been Determined From the Best Available Information and is Given For the Convenience of the Contractor. However, the Owner and the Engineer do Not Assume Responsibility in the Event that During Construction, Utilities Other Than Those Shown may be Encountered, and that the Actual Location of Those Which are Shown may be Different From the Location as Shown on the Drawings. Contact Engineer Immediately if Surface and/or Subsurface Features are Different Than Shown on the Drawings.

Contractor Shall Notify the Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.

Contractor Shall Notify the Owner, Engineer and the Village of Fox Lake, Village of Ingleside, and the Lake County Planning, Building & Development Department a Minimum of 48 Hours in Advance of Performing Any Work.

All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work as Shown Hereon Shall be Restored to Original Condition to the Satisfaction of the Owner of No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show that Damaged Areas were Not Disturbed by Construction Operations.

These Drawings Assume that the Contractor Will Utilize an Electronic Drawing File and Stake All Site Improvements Using Coordinates Tied into the Control Points. The Dimensions Indicated on the Drawings are For the Convenience of the Contractor Only.

No Person May Utilize the Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.

The Engineer is Furnishing these Drawings for Construction Purposes as a Convenience to the Owner, Architect, or Surveyor. The User of These Drawings for Any Other Construction Purpose, the User of This Media Shall Verify All Dimensions and Locations of Buildings with the Foundation Drawings and Architectural Site Plan. If Conflicts Exist the User of This Information Shall Contact the Engineer Immediately.

Contractor Shall Provide an As-built Survey Prepared by a Licensed Professional Land Surveyor in Accordance with the Authorities Having Jurisdiction, which may include All Storm and Sanitary Sewers (Structure Locations, Sizes, firm and Invert Elevations), Septic System, and Water Service and Valve and Appurtenance Locations.

The Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition, and All Addenda Thereto, Shall Govern the Earthwork and Paving Work Under This Contract Unless Noted Otherwise.

**J.U.L.I.E.**

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: J.U.L.I.E. 1 (800) 892-0123

**SURVEY PROVIDED BY:**

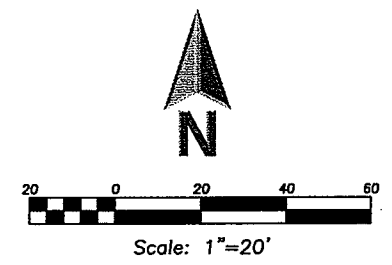
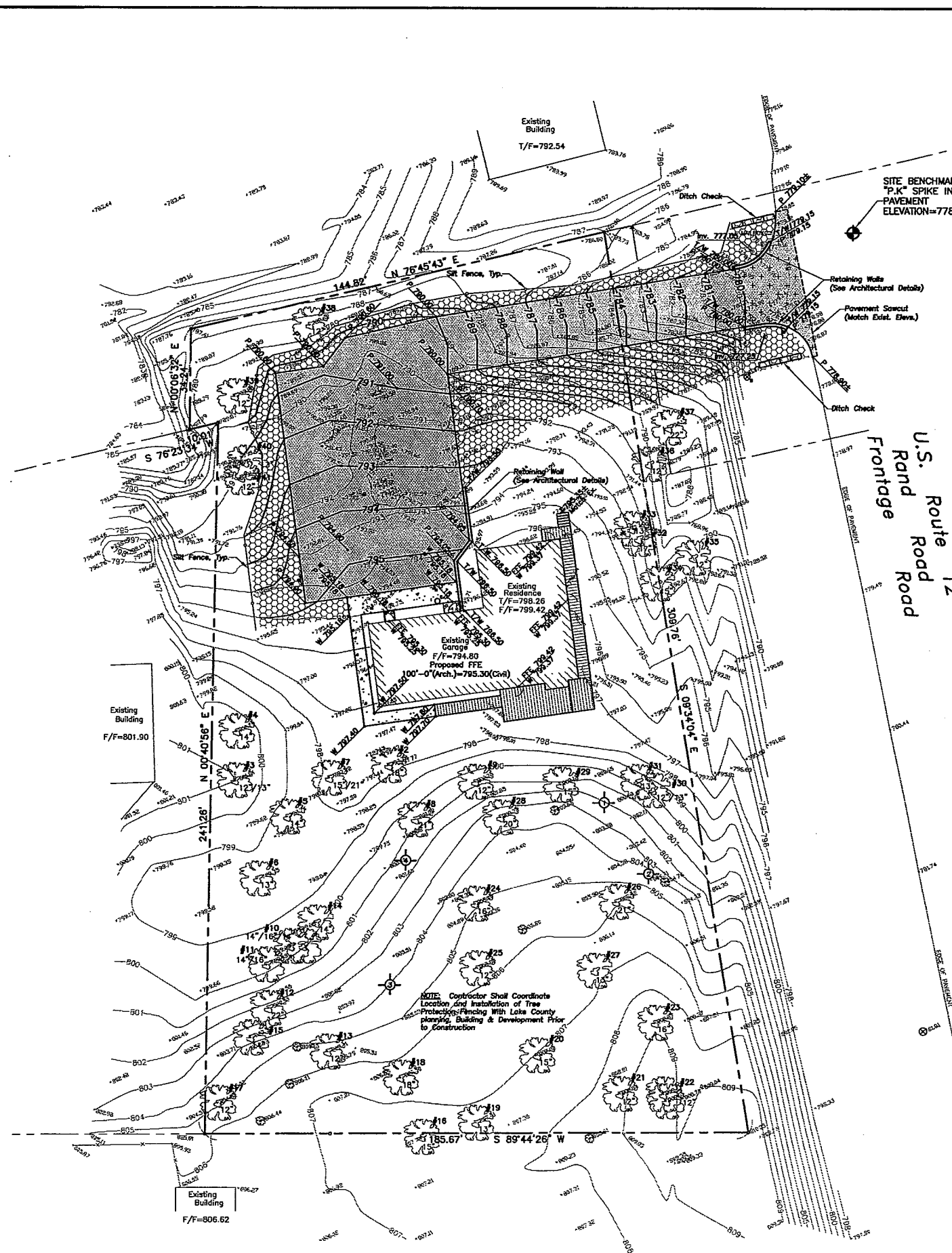
Topographical Survey Provided by RE, Allen and Associates, 31 S. Slusser Street, Graylake, IL 60030 For Serendipity Child Care Center on December 13, 2011.

**PROJECT BENCHMARKS**

**BENCHMARK:** Bench Mark Recovery Sheet Lake County, Illinois Benchmark Designation: 3-429 Out Square in Concrete Southwest Corner of bridge on Rollins Road Crossing Over Squaw Creek - 0.35 Miles West of the Intersection of Rollins Road and Wilson Road. NVD 29 Elevation = 750.92

**SITE BENCHMARK:** "P.K." Spike in East Edge of Pavement of Frontage Road Across from Driveway of Surveyed Parcel. Elevation = 778.88





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PROFESSIONAL DESIGN FIRM  
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EXPIRES: 04/30/2013

**RENOVATION  
SERENDIPITY CHILD CARE**

35274 North Highway 12  
Ingleisle, Illinois

Reserved for Seal:

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CONSTRUCTION**

Expiration Date: \_\_\_\_\_

No.	Date	Description
	01/04/12	LP&SD Site Plan Review

Design By: **SDC** Date: **10/10/2011**

Approved By: **GD** Project No.: **11031.00**

Sheet Title:  
**GRADING,  
PAVING, and  
SESC PLAN**

Sheet No.:  
**C-300**

**PAVING & SURFACE  
LEGEND**

- Asphalt Pavement Section  
1 1/2" Hot Mix Asphalt, Mix C, IL-9.5, NSD  
2 1/2" Hot Mix Asphalt, IL-19.0, NSD  
Prime Coat (0.25 gal/sq yd)  
8" Aggregate Base Course, Type B, Crushed
- Concrete Sidewalk Section  
3" Portland Cement Concrete  
6"x6" W1.4x11.4 Waxed Wire Fabric  
4" Aggregate Base Course, Type B, Crushed
- Heavy-Duty Asphalt Pavement Section  
1 1/2" Hot Mix Asphalt, Mix C, IL-9.5, NSD  
3" Hot Mix Asphalt, IL-19.0, NSD  
Prime Coat (0.25 gal/sq yd)  
12" Aggregate Base Course, Type B, Crushed
- Stormwater Overland Flow Path
- Ridge Line/High Point

**SOIL EROSION &  
SEDIMENTATION CONTROL  
LEGEND**

- Silt Fence
- Erosion Control Blanket  
North American Green OS75  
Or Approved Equal
- Erosion Control Ditch Check

**SOIL EROSION &  
SEDIMENTATION CONTROL  
NOTES**

Soil Disturbance Shall Be Conducted In Such a Manner as To Minimize Erosion. Soil Stabilization Measures Shall Consider the Time of Year, Site Conditions, and the Use of Temporary or Permanent Measures.

Soil Erosion and Sediment Control Features Shall Be Constructed Prior to the Commencement of Upland Disturbance.

Temporary Soil Stabilization Shall Be Applied to Topsoil Stockpiles and Disturbed Areas, Where Construction Activity Will Not Occur For A Period of More Than 10 Calendar Days, Within 7 Calendar Days of the End of Active Hydrologic Disturbance. The Sediment Control Measures Shall Be Maintained On A Continuing Basis Until the Site is Permanently Stabilized and All Inspections Are Complete. Permanent Stabilization Shall Be Done Within 14 Days after Completion of Final Grading of Soil.

All Temporary and Permanent Erosion Control Measures Shall Be Removed Within 30 Days After Final Site Stabilization is Achieved or After the Temporary Measures Are No Longer Needed. Trapped Sediment and Other Disturbed Soil Areas Shall Be Permanently Stabilized.

Final Site Stabilization is Defined by the EPA General Permit as Meaning That All Soil Disturbing Activities At the Site Have Been Completed, and That A Uniform Perennial Vegetative Cover With A Density of 70 Percent of the Cover For Upland Areas Not Covered by Permanent Structures Has Been Established Or Equivalent Permanent Stabilization Measures (Such As the Use of Riprap, Gabions, Or Geotextiles) Have Been Employed.

All Storm Sewer Structures That Are, Or Will Be, Functioning During Construction Shall Be Protected, Filtered, Or Otherwise Treated to Remove Sediment.

All Temporary and Permanent Sediment and Erosion Control Measures Must Be Maintained, Repaired, and Inspected in Conformance With All Applicable EPA-NPDES Phase II and Lake County DECI Requirements.

Install and Maintain Silt Fence At the Perimeter of the Construction Zone and Maintain Throughout Construction Until Vegetation Has Been Fully Established.

The Erosion Control Measures Indicated on the Drawings Are The Minimum Requirements. Additional Measures May Be Required As Directed by the Engineer or Governing Agency.

Unless Otherwise Indicated on the Drawings, Stabilize All Disturbed Ground Areas Where Slopes Exceed 8:1 or Within Swales with North American Green Blanket S75EN Erosion Control Blanket, or Approved Equal.

Report Releases of Reportable Quantities of Oil or Hazardous Materials if They Occur in Accordance with EPA NPDES Requirements.

All Concrete Washout Shall Conform to the "Temporary Concrete Washout Facility" Standards (Code 954) of the Illinois Urban Manual, Latest Edition.

**LEGEND**

- |  |                                     |  |          |
|--|-------------------------------------|--|----------|
|  | Storm Sewer                         |  | PROPOSED |
|  | Sanitary Sewer                      |  |          |
|  | Water Main                          |  |          |
|  | Gas Line                            |  |          |
|  | Overhead Wire                       |  |          |
|  | Electrical Cable (Buried)           |  |          |
|  | Telephone Line                      |  |          |
|  | Clean Out                           |  |          |
|  | Fire Hydrant                        |  |          |
|  | Valve Vault                         |  |          |
|  | Buffalo Box                         |  |          |
|  | Downspout                           |  |          |
|  | Gas Valve                           |  |          |
|  | Water Supply Well                   |  |          |
|  | Hand Hole                           |  |          |
|  | Light Pole                          |  |          |
|  | Utility Pole                        |  |          |
|  | Telephone Pedestal                  |  |          |
|  | Sign                                |  |          |
|  | Fence                               |  |          |
|  | Accessible Parking Space            |  |          |
|  | Curb Elevation                      |  |          |
|  | Outer Elevation                     |  |          |
|  | Pavement Elevation                  |  |          |
|  | Sidewalk Elevation                  |  |          |
|  | Ground Elevation                    |  |          |
|  | Top of Retaining Wall Elevation     |  |          |
|  | Slope                               |  |          |
|  | Outer Line                          |  |          |
|  | Tree >12" Diameter                  |  |          |
|  | Tree <12" Diameter                  |  |          |
|  | Tree Protection Fencing of Dig Line |  |          |
|  | Soil Boring Location                |  |          |

**GENERAL NOTES**

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The Illinois Department of Transportation Standard Specifications For Road and Bridge Construction, Latest Edition, and All Addenda Thereto, Shall Govern the Construction and Paving Work Under This Contract Unless Noted Otherwise.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility location call: J.U.L.I.E. 1 (800) 892-0123

**GRADING NOTES**

The Grading and Construction of Proposed Improvements Shall Be Done In a Manner Which Will Allow for Positive Drainage, and Not Cause Ponding of Stormwater on the Surface of Proposed Improvements.

The Fill

All Landscaped Areas Disturbed by Construction Shall Be Reseeded With 6 inches (Min.) to 12 inches (Max.) Topsoil and Hydroseeded Unless Noted Otherwise on the Landscape Drawings.

Refer to Architectural Drawings for Locations and Patterns of Exposure and Control Joints in Concrete Pavement and Sidewalks.

**INTENDED SEQUENCE OF  
MAJOR SEDIMENT AND  
EROSION CONTROL  
MEASURES**

1. Install Stabilized Construction Entrance
2. Install All Downslope and Sideslope Perimeter Controls Before Commencement of Any Ground Disturbing Activity.
3. Do Not Disturb an Area Until it is Necessary for Construction to Proceed.
4. Cover and Stabilize Disturbed Areas as Soon as Possible.
5. When Practical, Time Construction Activities to Limit Impact from Seasonal Climate Changes or Weather Events.
6. Construct Sedimentation Basins and Structures.
7. Perform Grading Operations and Installation of Site Infrastructure and Pavement.
8. Install Permanent Seeding and Plantings.
9. Remove Accumulated Sediment From Basins and Along Silt Fence.
10. Construction of Infiltration Measures Shall Take Place Following Stabilization of Upland Drainage Areas.
11. Remove Temporary Sediment and Erosion Control Measures Following Final Stabilization of All Disturbed Areas.

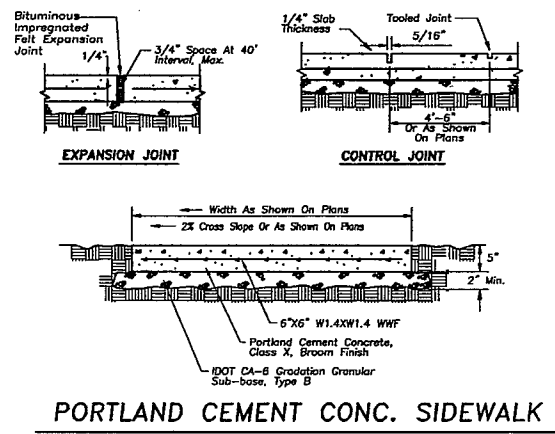
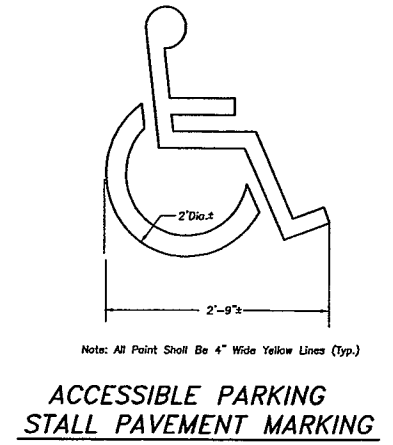
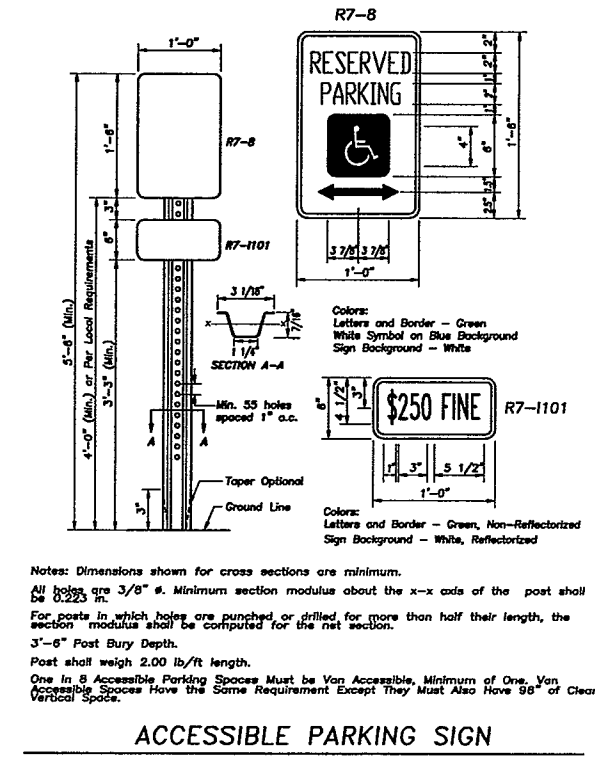
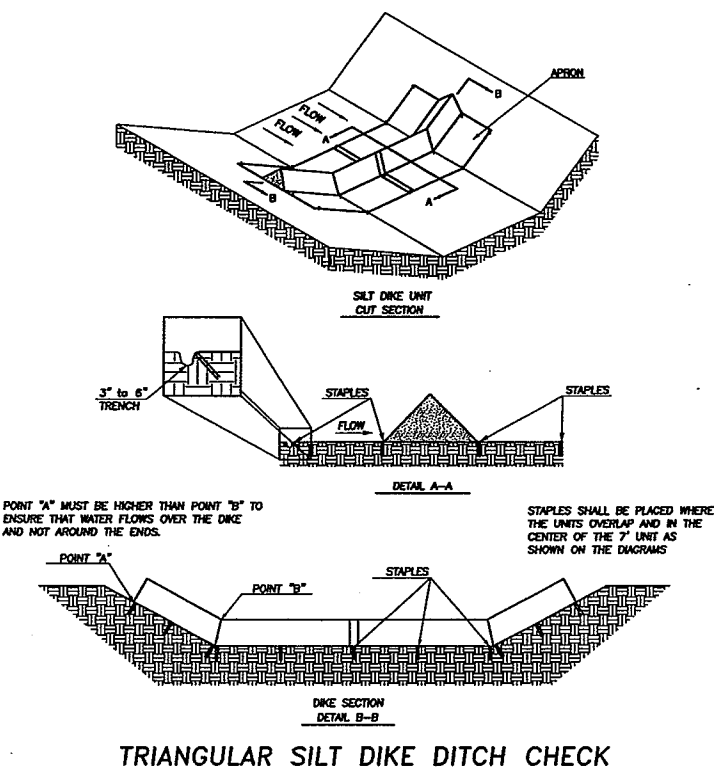
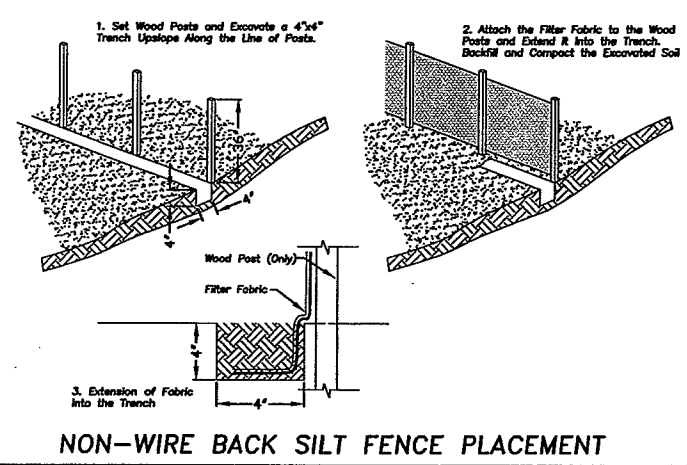
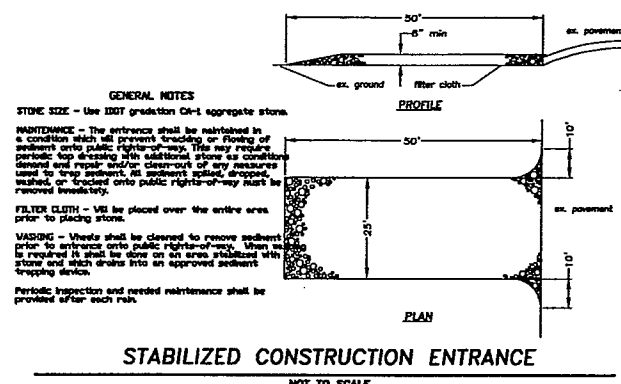
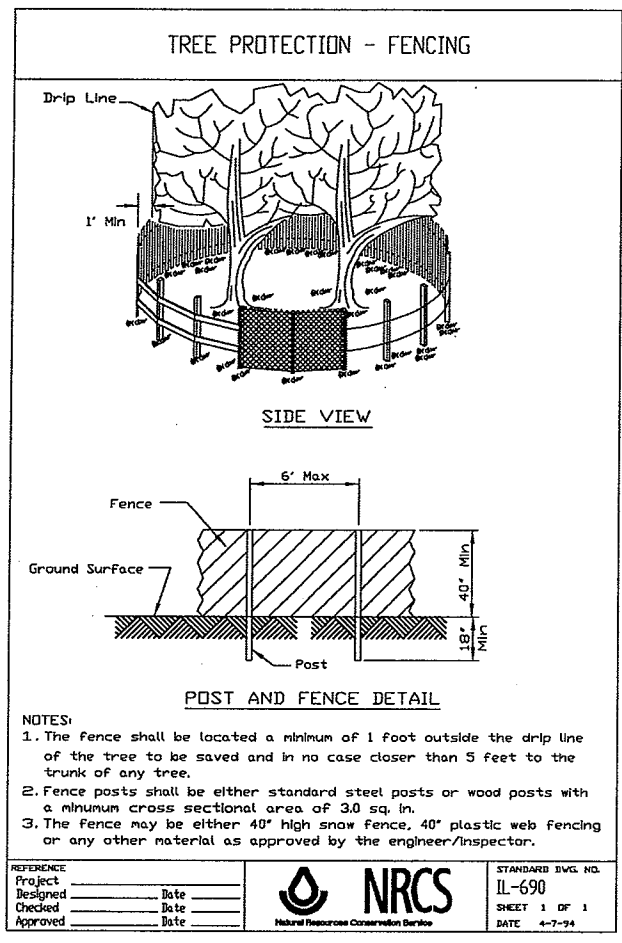
**SURVEY PROVIDED BY:**

Topographical Survey Provided by R.E. Allen and Associates, 31 S. Sasser Street, Graylake, IL 60030 For Serendipity Child Care Center on December 13, 2011.

**PROJECT BENCHMARKS**

**BENCHMARK:** Bench Mark Recovery Sheet Lake County, Illinois  
Benchmark Description: 3-4SR Cut Square in Concrete Southwest Corner of bridge on Rollins Road Crossing Over Squaw Creek - 0.35 Miles West of the Intersection of Rollins Road and Wilson Road. NVD 29 Elevation = 750.92

**SITE BENCHMARK:** "P.K." Spike in East Edge of Pavement of Frontage Road Across from Driveway of Surveyed Parcel. Elevation = 785.88



**ERIKSSON ENGINEERING ASSOCIATES, LTD.**

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PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-0032210  
EXPIRES: 04/30/2013

## RENOVATION SERENDIPITY CHILD CARE

35274 North Highway 12  
Ingleside, Illinois

Reserved for Seal:

NOT FOR  
CONSTRUCTION

Expiration Date: \_\_\_\_\_

No.	Date	Description
	01/04/12	LCP&D Site Plan Review

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Design By: **SDC** Date: **10/10/2011**

Approved By: **GD** Project No.: **11031.00**

Sheet Title:

## SITE WORK DETAILS

Sheet No:

# C-400

**LEGAL DESCRIPTION:**

THAT PART OF LOT "F" IN COUNTY CLERK'S DIVISION OF PART OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 45 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF, RECORDED JANUARY 12, 1944 AS DOCUMENT 536336, IN BOOK 28 OF PLATS, PAGES 98 AND 99 (EXCEPTING THEREFROM THAT PART DESCRIBED AS: BEGINNING AT THE NORTHEAST CORNER OF SAID LOT "F"; THENCE SOUTH 81 DEGREES 35 MINUTES WEST ALONG THE NORTHERLY LINE THEREOF, 528.5 FEET TO THE NORTHWEST CORNER OF SAID LOT "F"; THENCE SOUTH 15 DEGREES 38 MINUTES EAST ALONG THE WESTERLY LINE OF SAID LOT "F", 527.26 FEET TO THE NORTHERLY LINE OF LOT "F" IN SAID COUNTY CLERK'S DIVISION; THENCE NORTH 78 DEGREES EAST ALONG THE SAID NORTHERLY LINE OF LOT "F", 121.6 FEET; THENCE NORTH 34.1 FEET; THENCE NORTH 75 DEGREES 48 MINUTES EAST 420.9 FEET TO THE EASTERLY LINE OF SAID LOT "F" AND THENCE NORTHERLY ALONG THE SAID EASTERLY LINE OF LOT "F", 452.1 FEET TO THE PLACE OF BEGINNING AND ALSO EXCEPTING THEREFROM THAT PART DESCRIBED AS: BEGINNING AT THE SOUTHEAST CORNER OF LOT "D" IN SAID COUNTY CLERK'S DIVISION; THENCE NORTH 76 DEGREES EAST ALONG THE NORTHERLY LINE OF LOT "F" IN SAID COUNTY CLERK'S DIVISION 121.8 FEET; THENCE NORTH 34.1 FEET; THENCE NORTH 75 DEGREES 48 MINUTES EAST, 154.5 FEET TO THE NORTHWEST CORNER AND PLACE OF BEGINNING OF THIS DESCRIPTION; THENCE NORTH 75 DEGREES 48 MINUTES EAST 268.4 FEET TO THE EASTERLY LINE OF SAID LOT "F"; THENCE SOUTHERLY ALONG THE EASTERLY LINE OF SAID LOT "F" 50 FEET; THENCE SOUTH 32 DEGREES WEST 60 FEET; THENCE SOUTH 77 DEGREES 30 MINUTES WEST 234.5 FEET AND THENCE NORTH 10 DEGREES 24 MINUTES WEST 85 FEET TO THE PLACE OF BEGINNING AND ALSO EXCEPTING THEREFROM; COMMENCING AT THE NORTHEAST CORNER OF SAID LOT "F"; THENCE SOUTHEASTERLY ALONG THE EAST LINE OF SAID LOT "F" FOR A DISTANCE OF 452.1 FEET TO A POINT; THENCE SOUTH 75 DEGREES 48 MINUTES WEST FOR A DISTANCE OF 268.4 FEET TO THE NORTHWEST CORNER OF THE TRACT OF LAND DEEDED TO GEORGE WORMSLEY AND HELEN T. WORMSLEY, BY DOCUMENT 742235 FOR A POINT OF BEGINNING; THENCE CONTINUING ON THE LAST DESCRIBED COURSE FOR A DISTANCE OF 9.6 FEET TO A POINT; THENCE SOUTHEASTERLY TO A POINT ON THE SOUTHERLY LINE OF LOT "F", THE LAST DESCRIBED POINT BEING 360.0 FEET WESTERLY OF THE NORTH AND SOUTH QUARTER LINE OF SAID SECTION 15; THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT "F" TO THE SOUTHEAST CORNER OF SAID LOT "F"; THENCE NORTHERLY ALONG THE EASTERLY LINE OF SAID LOT "F" TO A POINT THAT IS 502.1 FEET SOUTHEASTERLY FROM THE NORTHEAST CORNER OF SAID LOT "F"; THENCE SOUTH 32 DEGREES 00 MINUTES WEST FOR A DISTANCE OF 60.0 FEET TO A POINT; THENCE SOUTH 77 DEGREES 30 MINUTES WEST FOR A DISTANCE OF 234.5 FEET TO A POINT; THENCE NORTH 10 DEGREES 14 MINUTES WEST FOR A DISTANCE OF 85.0 FEET TO THE POINT OF BEGINNING), IN LAKE COUNTY, ILLINOIS.

**OWNER:**

Serendipity Child Care Center  
35274 North Highway 12  
Ingleside, IL 60041  
(847) 973-9148

**SOIL BORINGS PREPARED BY:**

McHenry County Soil and Water Conservation District  
1848 South Eastwood Drive, Woodstock, IL 60098  
Bob Gaj, Certified Professional Scientist/Soil Classifier  
Lake County License No. 4035-97-4005  
(815) 338-0099

**TOPOGRAPHIC INFORMATION PROVIDED BY:**

R.E. Allen & Associates, 31 S. Slusser Street, Graylake, IL 60030, (847) 223-0914

**BENCHMARK:** Bench Mark Recovery Sheet Lake County, Illinois Benchmark Designation: 3-45R Out Square in Concrete Southwest Corner of bridge on Rollins Road Crossing Over Square Creek - 0.35 Miles West of the Intersection of Rollins Road and Wilson Road.  
NOVD 29 Elevation = 750.92

**SPK BENCHMARK:** "P.K." Spike in East Edge of Pavement of Frontage Road Across from Driveway of Surveyed Parcel.  
Elevation = 768.88

**NOTES:**

Lake County Health Department (LCHD): The Ordinances of The LCHD Relating To Individual Sewage Disposal Systems Are In Effect, Including Sections 10 and 11 of Lake County Board of Health Ordinances - Article V That Specifies Construction and Material Requirements. The Ordinances Give The LCHD The Right To Inspect The Work Under Construction To See That It is Being Performed In Accordance With The Approved Plans, Specifications, And Permit. The Contractor Shall Give The LCHD Forty-Eight (48) Hours Notice Prior To Starting Construction.

Prior to construction, fence off septic system and expansion areas. Construction traffic or materials storage of any kind shall not be permitted within septic system area.

Utility services shall not cross septic system area.

Prior to construction, the Contractor shall locate or cause to be located all existing underground utilities by contacting J.U.L.L.E. at (800) 892-0123 or a Private Underground Utility Location Company for Private Utility Services.

Clear water from footing drains, air conditioners, downspouts, or any other source shall not be discharged into or onto septic system. Provide 6" minimum cover over septic tanks.

Any filling or excavating required within the septic system area shall be completed during dry field conditions and in such a manner as to minimize compaction of the existing soils.

Final grade and seed septic system areas prior to being put into service.

Septic system is not designed for garbage disposal unit.

**DESIGN DATA:**

Soil Resource Group: A  
Soil Series: 323 Casco, 327 Fox  
Wastewater Loading Rate: 0.50 gpd/sf  
Depth to Limiting Layer: >60 inches  
Projected Daily Flow: 415 gpd

**Seepage Field:**

Type 1 System (Infiltrator Equalizer 38)  
415 gpd / 0.50 gpd/sf / 3 R. = 277 LF required

**Septic Tank:**

Size = 1.5 x 415 gpd = 623 gal. (Use TNK-815-410 by Grove Concrete & Supply, Inc.) and shall include a Lake County approved effluent filter (Zabel 24x36 or Equal)

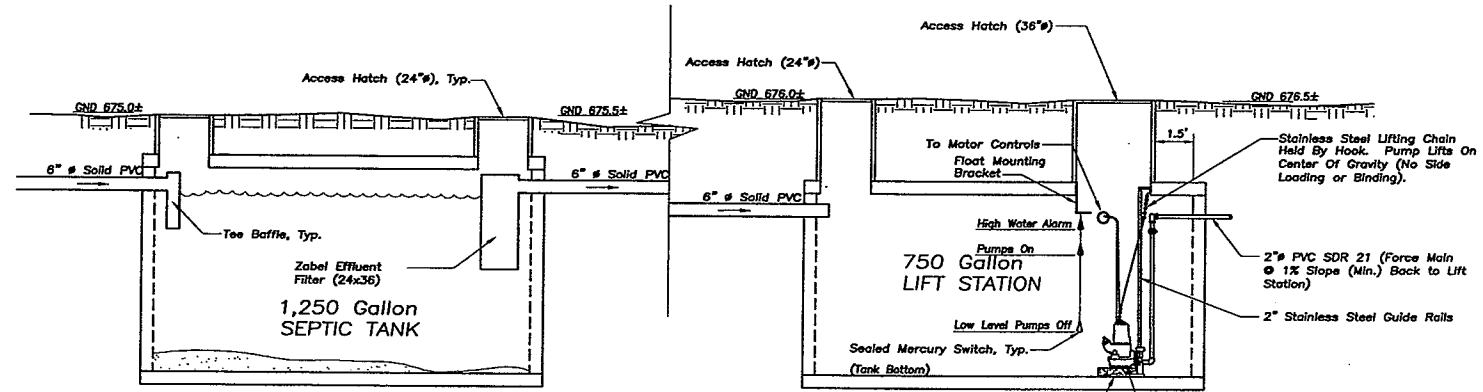
**Lift Station:**

Size = 750 gal. (750 Gallon Pump Tank by Grove Concrete & Supply, Inc.)

**Pumps:**

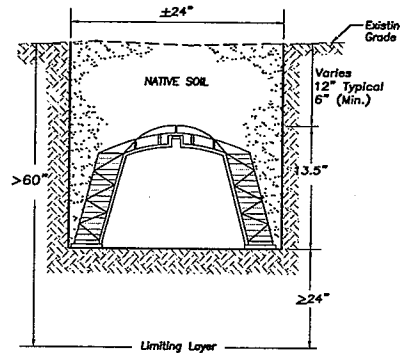
Lift Station: A Duplex system of 2 alternating submersible pumps, complete with motor controls, accessories, and high water alarm to make a fully automatic system. Each pump shall be capable of accommodating 100% of the daily flow (415 gpd), at a static head of approximately 14 feet. The force main shall be installed at a 1.0% minimum slope back to the lift station to prevent freezing. Motor controls shall control the activation of pumps alternating between the two pumps thereby exercising each pump equally. Motor control shall also include activation of other pump if one pump fails.

Control Panel: Type to be coordinated with Owner and Architect Prior to Construction

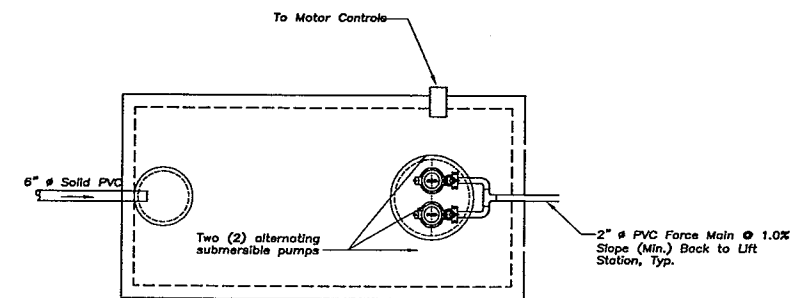


**SEPTIC TANK PROFILE**  
(Not to Scale)

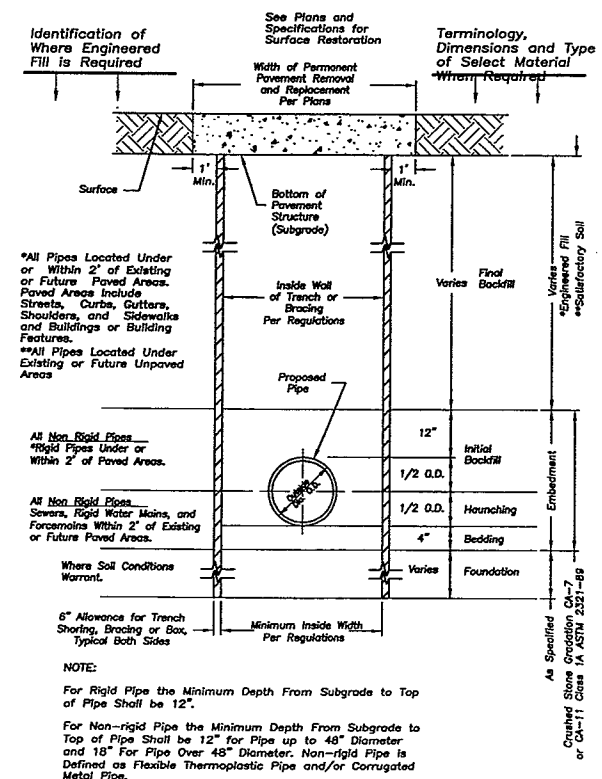
**LIFT STATION PROFILE**  
(Not to Scale)



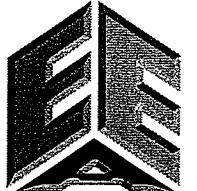
**EQUALIZER 36 SEEPAGE TRENCH CROSS SECTION**



**LIFT STATION PLAN VIEW**  
(Not to Scale)



**STANDARD SEWER AND WATER TRENCH SECTION**



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Design By: SDC Date: 10/10/2011  
Approved By: GD Project No.: 11031.00

Sheet Title:  
**SITE WORK  
DETAILS  
(ISD DESIGN)**

Sheet No.:  
**C-401**



**SITE PLAN REVIEW**

MARK	DATE	DESCRIPTION
ISSUE DATE:	01/02/12	
PROJECT NO:		
CAD DWG FILE:		
DRAWN BY:	GB	
CHECKED BY:	--	
APPROVED BY:		
SCALE:		

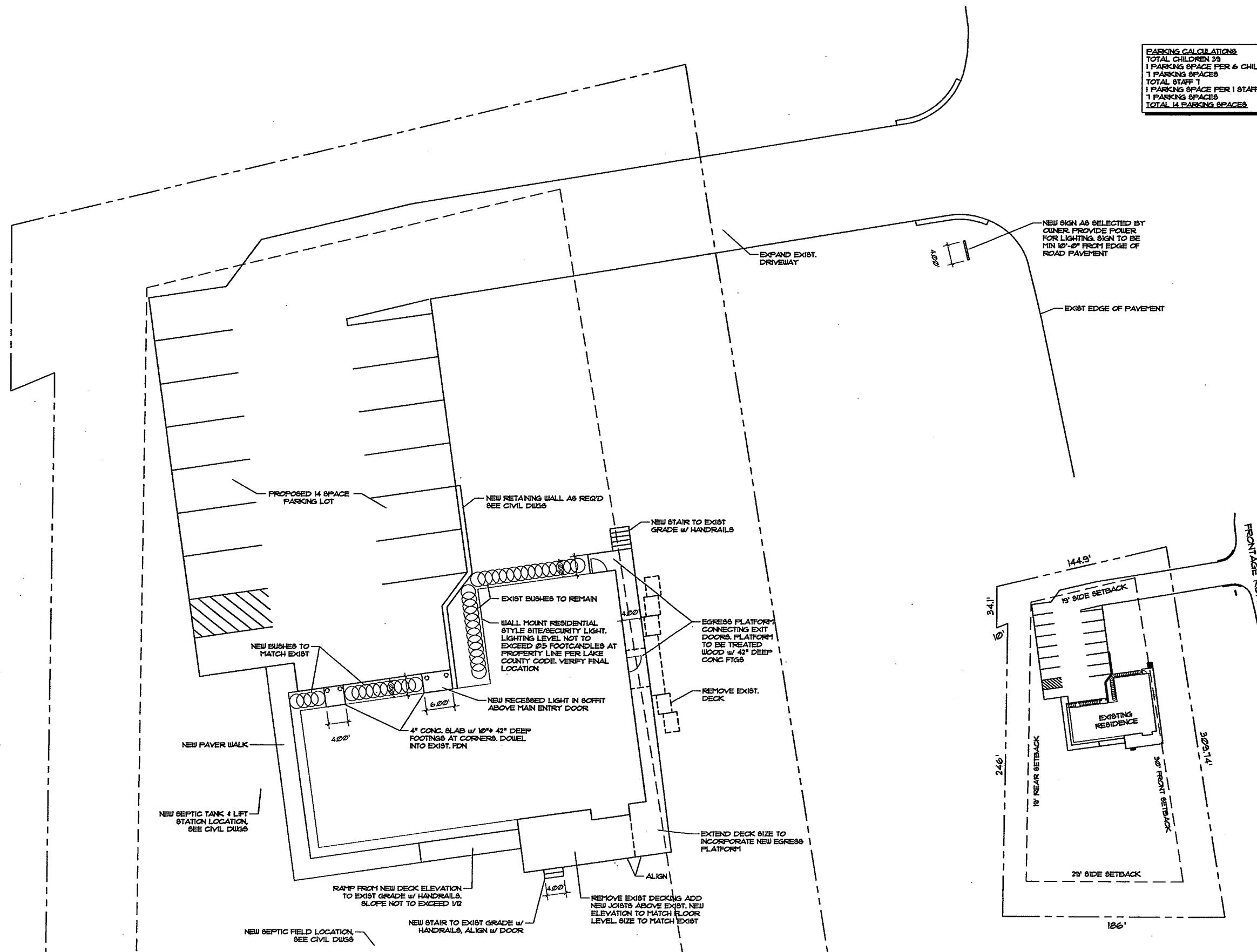
SHEET TITLE

**SITE PLAN**

SHEET NO.

**G-101**

**PARKING CALCULATIONS**  
TOTAL CHILDREN 33  
1 PARKING SPACE PER 6 CHILDREN  
TOTAL STAFF 1  
1 PARKING SPACE PER 1 STAFF  
TOTAL 14 PARKING SPACES



**A1 ENLARGED SITE PLAN**  
SCALE: 1" = 10'

**A4 SITE PLAN**  
SCALE: 1" = 40'





