

OVER-EXCAVATION PLAN

SCALE = 1/8" = 1'-0"

- PLANS NOTES:
1. FOOTING EXCAVATION SHALL BE OVERDRED A MINIMUM OF 2'-0" FEET ON EACH SIDE.
 2. ALL OVER-EXCAVATION SHALL BE PERFORMED PER THE SOils REPORT BY AMERICAN TECHNICAL SERVICES INC - J05 40 05-5274 - DATED OCTOBER 17 2005.
 3. SEE THE FOUNDATION PLAN - SHEET 01.1 FOR BUILDING DIMENSIONS.
 4. SEE SECTION 1/82.1 - SHEET 01.1 FOR BUILDING OVER-EXCAVATION DETAIL.



HERMANSON ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEERS
1227 North Oregon Avenue, Rapid City, SD 57701
605.343.7133
www.hermansoninc.com
www.rce.com

2027 North Oregon Avenue, Rapid City, SD 57701
605.343.7133
www.hermansoninc.com
www.rce.com

ARCHITECTS, P.A.

JOB NO. 07-041

BEVERLY HEALTHCARE
Beila Vista #2198
Rapid City, South Dakota

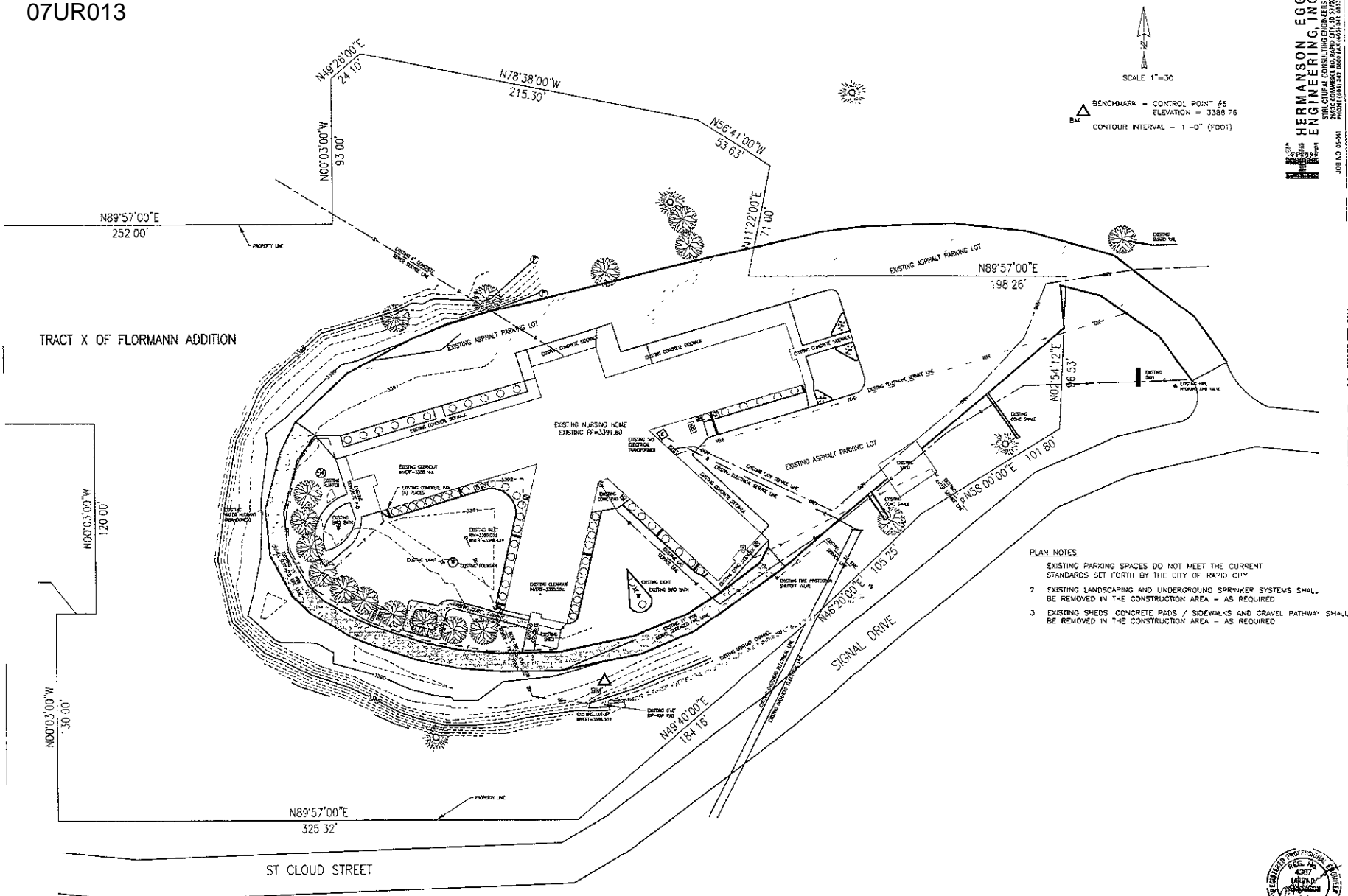
MRL JOB NO
05115

ISSUE DATE
10-08-07

REVISIONS

SHEET
CON-TENTS
OVER-EXCAVATION PLAN

SHEET
C1.3



BENCHMARK - CONTROL POINT #5
 ELEVATION = 3388.76
 CONTOUR INTERVAL - 1'-0" (FCOT)

TRACT X OF FLORMANN ADDITION

PLAN NOTES

- 1. EXISTING PARKING SPACES DO NOT MEET THE CURRENT STANDARDS SET FORTH BY THE CITY OF RAPID CITY
- 2. EXISTING LANDSCAPING AND UNDERGROUND SPRINKLER SYSTEMS SHALL BE REMOVED IN THE CONSTRUCTION AREA - AS REQUIRED
- 3. EXISTING SHEDS CONCRETE PADS / SIDEWALKS AND GRAVEL PATHWAY SHALL BE REMOVED IN THE CONSTRUCTION AREA - AS REQUIRED

HERMANSON EGGE ENGINEERING, INC.
 STRUCTURAL CONSULTING ENGINEERS
 2710 COMMERCIAL RD., RAPID CITY, SD 57701
 PHONE: (605) 342-2222 FAX: (605) 342-2222
 WWW.MEER.COM

Architects, P.A.

beverly healthcare

BEVERLY HEALTHCARE
 Belle Vista #2198
 Rapid City, South Dakota

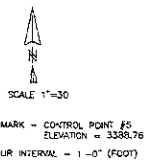
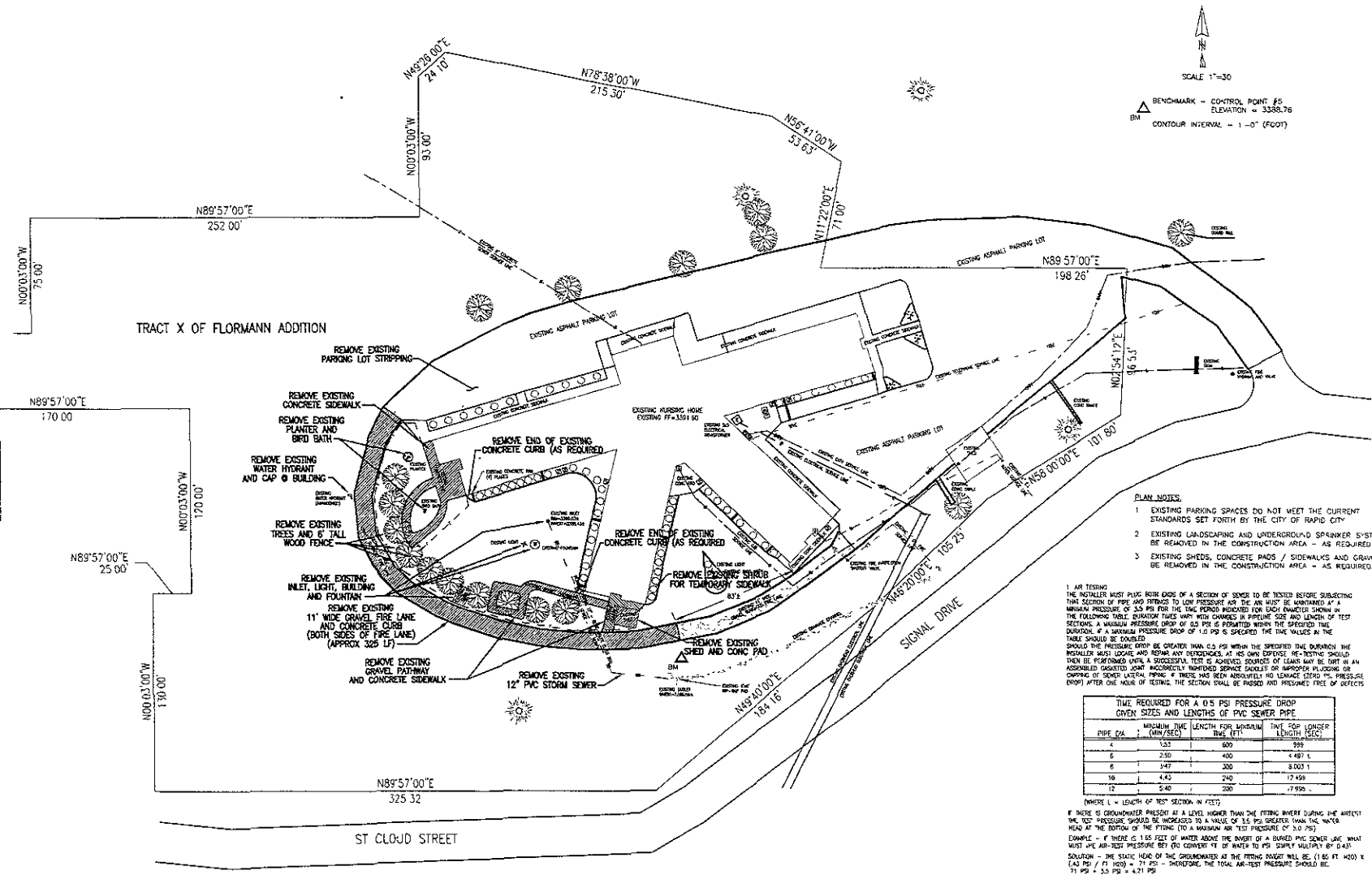
MBL JOB NO
 05115
 ISSUE DATE
 10-08-07

REVISIONS

SHEET CONTENTS
 EXISTING SITE CONDITIONS PLAN

SHEET C1.1





PLAN NOTES

- EXISTING PARKING SPACES DO NOT MEET THE CURRENT STANDARDS SET FORTH BY THE CITY OF RAPID CITY
- EXISTING LANDSCAPING AND UNDERGROUND SPRINKLER SYSTEMS SHALL BE REMOVED IN THE CONSTRUCTION AREA - AS REQUIRED
- EXISTING SHEDS, CONCRETE PADS / SIDEWALKS AND GRAVEL PATHWAY SHALL BE REMOVED IN THE CONSTRUCTION AREA - AS REQUIRED

1 AIR TESTING
THE INSTALLER MUST PUMP BOTH ENDS OF A SECTION OF SEWER TO BE TESTED BEFORE SUBJECTING THAT SECTION OF PIPE AND FITTINGS TO LOW PRESSURE AIR. THE AIR MUST BE MAINTAINED AT A MINIMUM PRESSURE OF 3.0 PSI FOR THE TIME PERIOD INDICATED FOR EACH DIAMETER SHOWN IN THE FOLLOWING TABLE. DURATION TIMES VARY WITH CHANGES IN PIPELINE SIZE AND LENGTH OF TEST SECTION. A MAXIMUM PRESSURE DROP OF 0.5 PSI IS PERMITTED WITHIN THE SPECIFIED TIME PERIOD. A MAXIMUM PRESSURE DROP OF 1.0 PSI IS SPECIFIED. THE TIME VALUES IN THE TABLE SHOULD BE DOUBLED SHOULD THE PRESSURE DROP BE GREATER THAN 0.5 PSI WITHIN THE SPECIFIED DURATION. THE INSTALLER MUST LOCATE AND REPAIR ANY PERFORANCES AT HIS OWN EXPENSE. RE-TESTING SHOULD THEN BE PERFORMED UNTIL A SUCCESSFUL TEST IS ACHIEVED. SQUARES OF LEAKS MAY BE TAHT IN AN ASSEMBLED GASKETED JOINT. INADEQUATELY TIGHTENED SERVICE SOCKETS OR IMPROPER PLUGGING OR COUPLING OF SEWER LATERAL BRANCH IF THESE HAVE BEEN ABSOLUTELY NO CHANGE IN THE PRESSURE DROP AFTER ONE HOUR OF TESTING, THE SECTION SHALL BE PASSED AND PRESUMED FREE OF DEFECTS

PIPE DIA.	MAXIMUM TIME (MIN/SEC)	LENGTH FOR MINIMUM TIME (FT)	TIME FOR LONGER LENGTH (SEC)
4	1:33	600	999
6	2:50	400	4:07 L
8	3:47	300	5:03 L
10	4:43	240	7:459
12	5:40	200	7:950

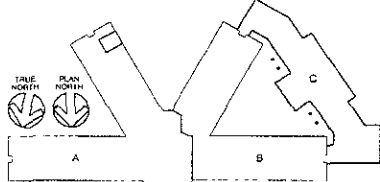
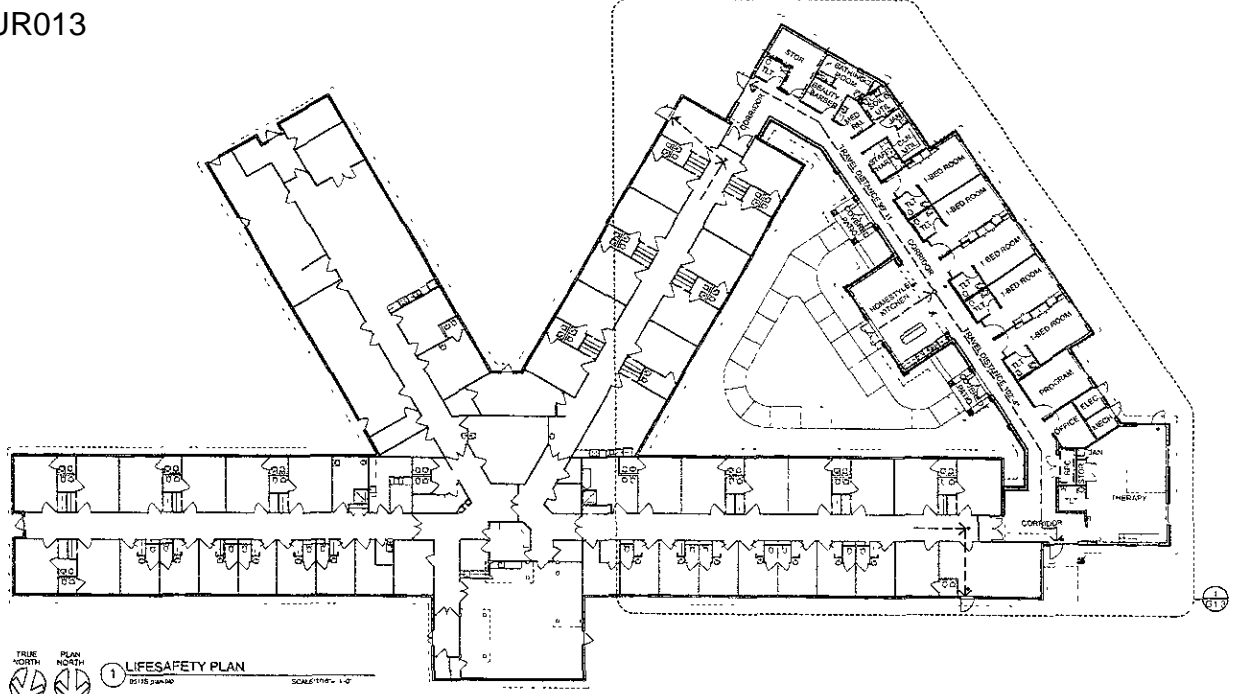
(WHERE L = LENGTH OF TEST SECTION IN FEET)
IF THERE IS GROUNDWATER PRESENT AT A LEVEL HIGHER THAN THE FITTING INVERT DURING THE AIR TEST THE TEST PRESSURE SHOULD BE INCREASED TO A VALUE OF 3.0 PSI GREATER THAN THE WATER HEAD AT THE BOTTOM OF THE FITTING (TO A MAXIMUM AIR TEST PRESSURE OF 5.0 PSI).
EXAMPLE - IF THERE IS 1.0 FEET OF WATER ABOVE THE INVERT OF A BURRED PVC SEWER LINE, WHAT MUST THE AIR-TEST PRESSURE BE? (TO COVER 1 FT OF WATER TO THE SERVICE SOCKETS BY 0.43' SOLUTION - THE STATIC HEAD OF THE GROUNDWATER AT THE FITTING INVERT WILL BE (1.00 FT x 62.4) / (2.31) = 13.5 PSI - THEREFORE, THE TOTAL AIR-TEST PRESSURE SHOULD BE 11.5 PSI + 3.5 PSI = 15.0 PSI

SINCE THIS VALUE IS LESS THAN 5.0 PSI THE INSTALLER MAY PROCEED WITH THE AIR TEST USING THIS STATIC PRESSURE. USING THIS ANALYSIS IT IS EVIDENT THAT THE MAXIMUM HEAD OF GROUNDWATER PERMITTED ABOVE THE INVERT OF A PVC SEWER PIPE AND FITTING SYSTEM FOR AN AIR TEST IS APPROXIMATELY 3.5 FEET

TYPICAL TESTING OF SEWER LINES PROCEDURE

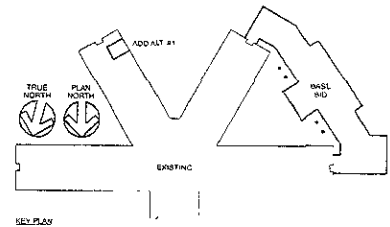


APPLICABLE CODES	International Building Code 2003 International Fire Code 2003 Uniform Plumbing Code 2003 International Mechanical Code 2009 National Electrical Code 2005 NFPA Life Safety Code 2003 ASHE A17.1-1998 South Dakota Nursing Home Regulations
PROJECT GROUP	1 - 2
EXISTING STRUCTURAL BUILDING TYPE	Type IIB Full Sprinklered
EXISTING STRUCTURE (IF BUILDING TYPE (RE) IS (L)D)	Type VA Full Sprinklered
BUILDING TYPE	Type VA Full Sprinklered (N-SPA 101 - Type 1 (1)1)
ALLOWABLE HGT	50
ALLOWABLE STORIES	1 Story
ALLOWABLE AREA	9,500 sq ft
SMOKE COMPARTMENT ALLOWABLE AREA	22,000 sq ft
ALLOWABLE AREA WITH SPRINKLER INCREASES	18,000 sq ft
AREA	Existing Building Area: 10,221 sq ft New Building Area: 6,049 sq ft TOTAL AREA: 16,270 sq ft
AREA MODIFICATION	$A_n = A_e + [A_e (10,000) + (A_e (10,000))]$ $A_n = 9,500 + 19,500 (10,000) = (9,500 + 200,000)$ $A_n = 209,500 + 19 = 209,519$ $A_n = 18,000$
Maximum Fair Travel Distance = 200' sprinklered	
Corridor Width	6'-0"
Corridor Rating	0 - Not Required - (NFPA 101 19.9.6.2.1)
SLW	Steel Deck Steel Stud - Brick Veneer Full Sprinklered
EXISTING BUILDING	Steel Deck Brick Veneer Full Sprinklered



SMOKE COMPARTMENT PLAN
 A = 11,896 SF
 B = 6,008 SF
 C = 6,340 SF

TRUE NORTH PLAN NORTH
 1 LIFESAFETY PLAN
 2018.2.26.10
 SCALE: 1/8" = 1'-0"



3903 14th Street, Rapid City, SD 57701
 605.342.1400
 #605.342.1400
 www.millerboskuslock.com

**Miller
Boskus
Lock**
Architects, PA

living centers

GOLDEN VENTURES
 Golden LivingCenter
 - Bella Vista #2188
 Rapid City, South Dakota

MBL JOB NO
8511S

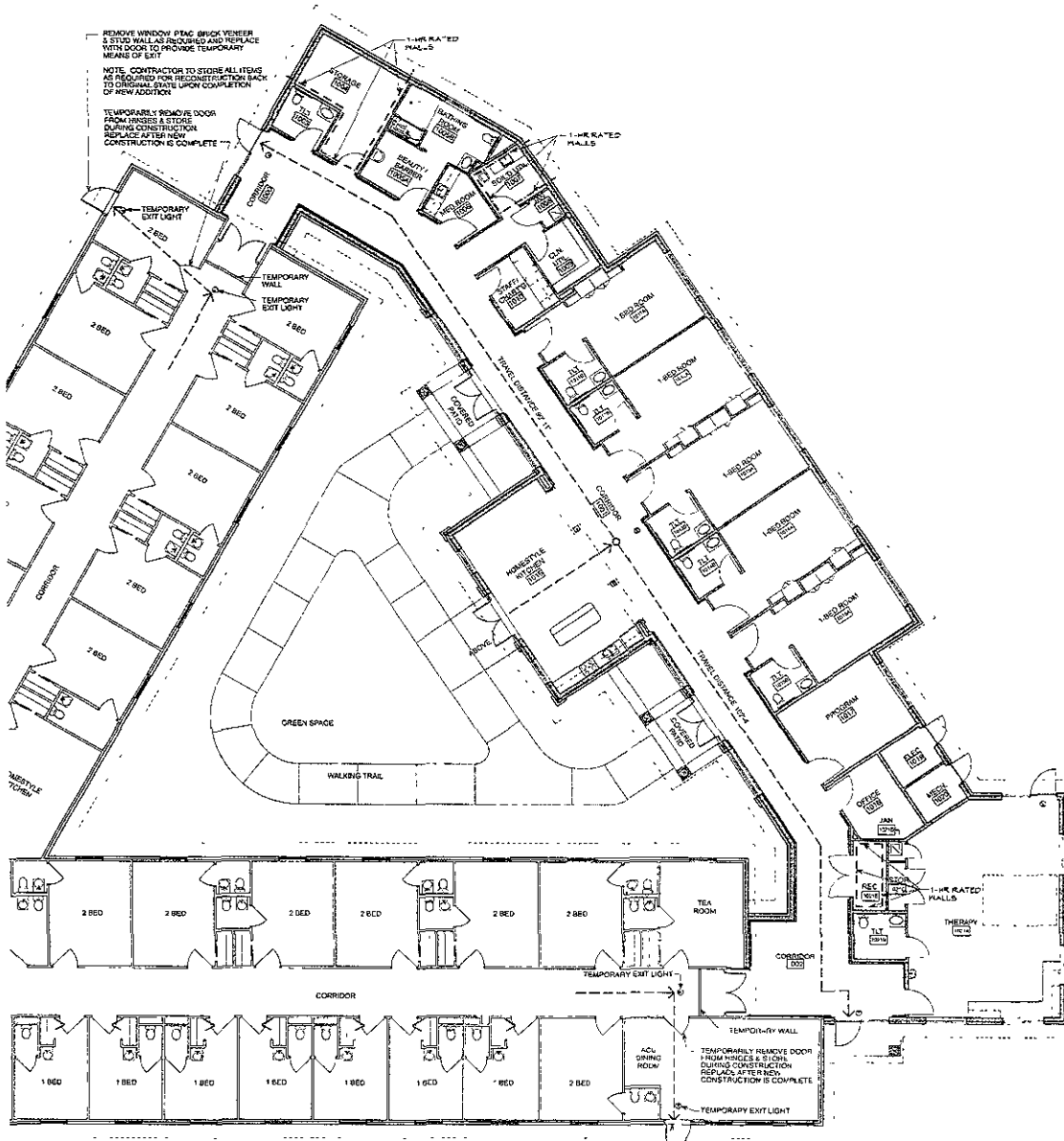
ISSUE DATE
10-08-07

REVISIONS

SHEET
CONTENTS

LIFE SAFETY
PLAN

SHEET
G1.2



REMOVE WINDOW FRAC. BRICK VENEER & STUCCO WALLS REQUIRED AND REPLACE WITH DOOR TO PROVIDE TEMPORARY MEANS OF EXIT

NOTE: CONTRACTOR TO STORE ALL ITEMS AS REQUIRED FOR RECONSTRUCTION BACK TO ORIGINAL STATE UPON COMPLETION OF NEW ADDITION

TEMPORARILY REMOVE DOOR FROM HALLS & STAIRS DURING CONSTRUCTION REPLACE AFTER NEW CONSTRUCTION IS COMPLETE

TEMPORARILY WALL

TEMPORARILY REMOVE DOOR FROM HALLS & STAIRS DURING CONSTRUCTION REPLACE AFTER NEW CONSTRUCTION IS COMPLETE

TEMPORARY EXIT LIGHT

1 ENLARGED LIFESAFETY PLAN
 20x10 200/200 SCALE 1/8" = 1'-0"

REMOVE WINDOW FRAC. BRICK VENEER & STUCCO WALLS REQUIRED AND REPLACE WITH DOOR TO PROVIDE TEMPORARY MEANS OF EXIT

NOTE: CONTRACTOR TO STORE ALL ITEMS AS REQUIRED FOR RECONSTRUCTION BACK TO ORIGINAL STATE UPON COMPLETION OF NEW ADDITION



1000 Locust Avenue, Suite 200
 PROVOID, PA 17033
 717-837-1111 FAX 717-837-1119
 WWW.MILLERBOSTUSLACK.COM
 Architects, P.A.



livingcenters

GOLDEN VENTURES
 Golden LivingCenter
 - Bella Vista #2188
 Rapid City, South Dakota

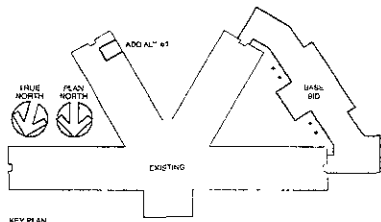
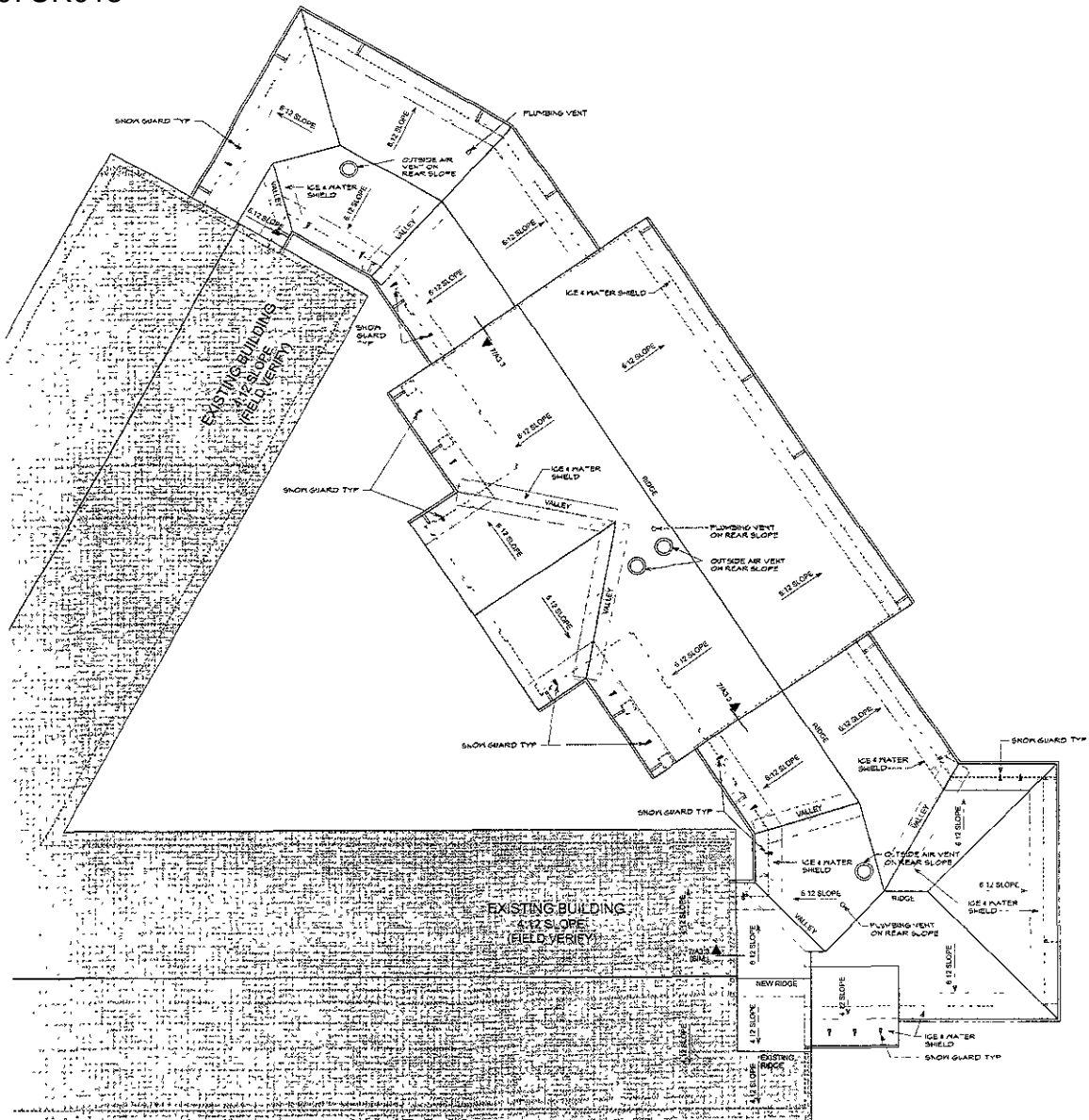
MR. JOB NO
 05115

ISSUE DATE
 10-08-07

REVISIONS

SHEET CONTENTS
 ENLARGED LIFE SAFETY PLAN

SHEET
 G1.3



ROBERT M. MILLER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF PENNSYLVANIA
 No. 77477
 EXP. 12/31/2011
 MILLER BOSKUS LOCK ARCHITECTS, PA



living centers

No. 001

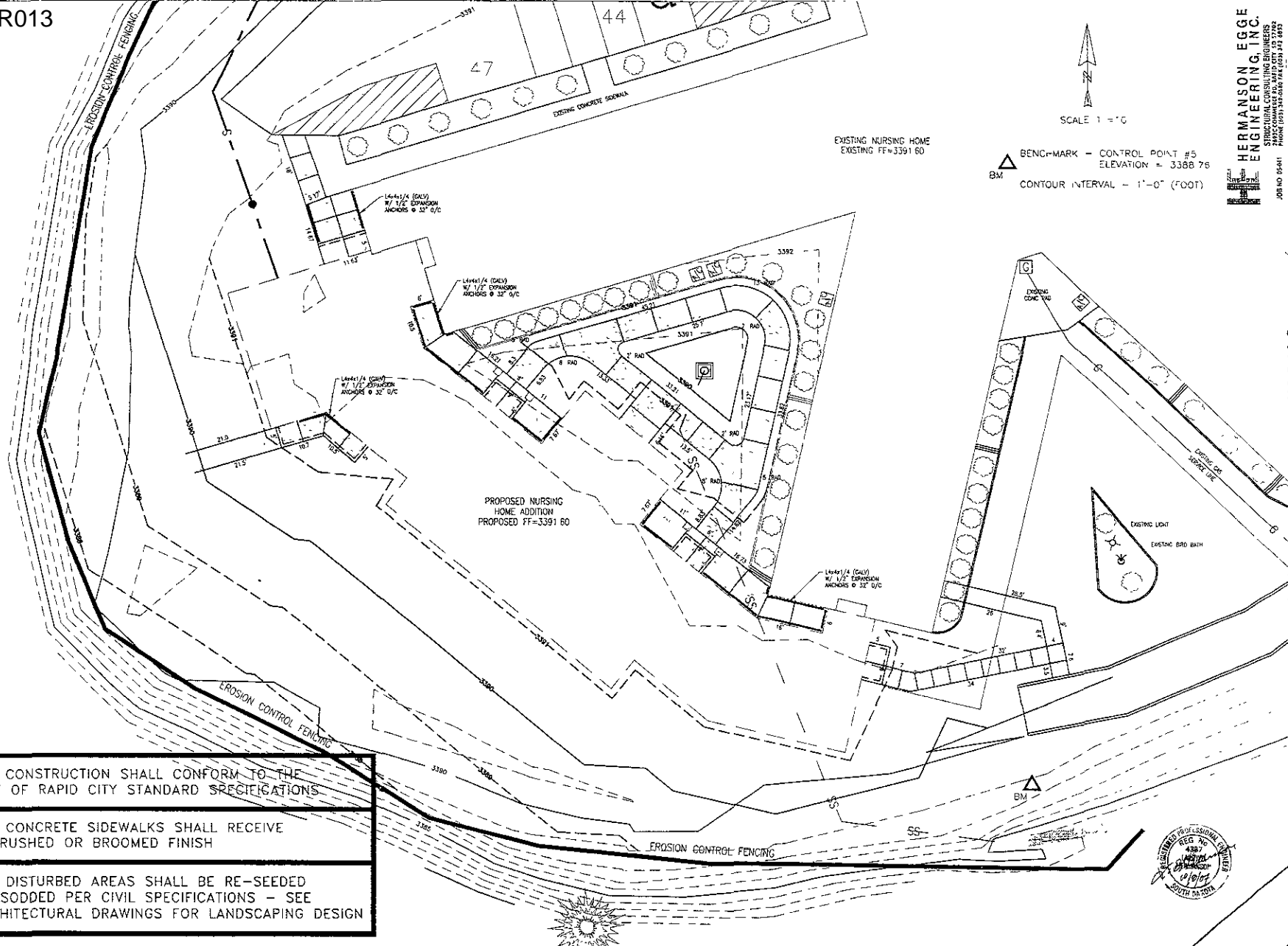
GOLDEN VENTURES
 Golden Living Center
 Bella Vista #2198
 Piquette City, South Dakota

MBL JOB NO.
 05115
 ISSUE DATE
 10-06-07

REVISIONS

SHEET CONTENTS
 ROOF PLAN

SHEET
 A7.0



ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF RAPID CITY STANDARD SPECIFICATIONS

ALL CONCRETE SIDEWALKS SHALL RECEIVE A BRUSHED OR BROOMED FINISH

ALL DISTURBED AREAS SHALL BE RE-SEEDED OR SODDED PER CIVIL SPECIFICATIONS - SEE ARCHITECTURAL DRAWINGS FOR LANDSCAPING DESIGN



SCALE 1" = 10'

△ BENCH-MARK - CONTROL POINT #5
ELEVATION = 3388.75

BM CONTOUR INTERVAL - 1'-0" (FOOT)

EXISTING NURSING HOME
EXISTING FF=3391.60

PROPOSED NURSING HOME ADDITION
PROPOSED FF=3391.60

HERMANSON EGGE ENGINEERING INC.
STRUCTURAL CONSULTING ENGINEERS
2745 COMMERCIAL ST., RAPID CITY, SD 57702
PHONE (605) 342-8866 FAX (605) 341-0875

2399 North Green Acrey Road
Rapid City, SD 57701
PHONE (605) 342-8866 FAX (605) 341-0875
www.hermansonegge.com

Architects, P.A.

beverly healthcare

BEVERLY HEALTHCARE
Bella Vista #2188
Rapid City, South Dakota

MBL JOB NO
0511S

ISSUE DATE
10-08-07

REVISIONS

SHEET ENLARGED
CONCRETE SIDEWALK/ PAD PLAN

SHEET
C1.6