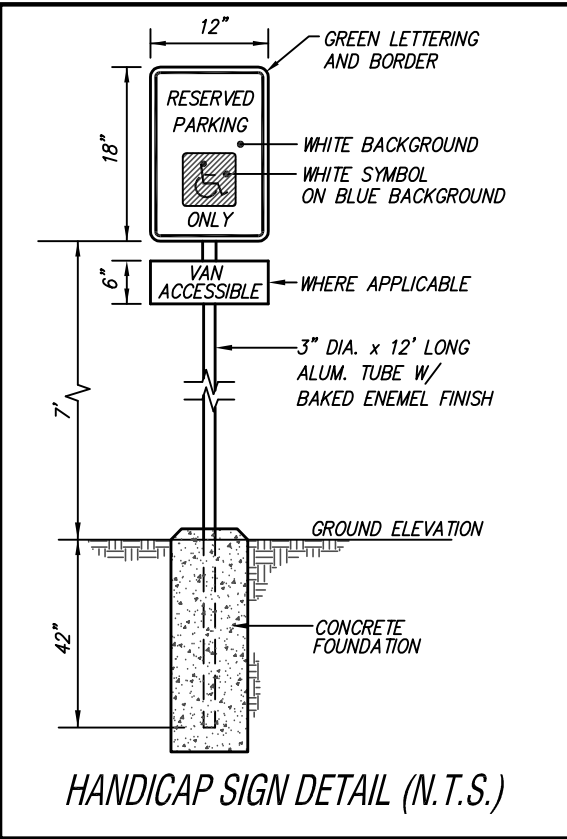


**TREE INVENTORY:**

Tree Tag #	D.B.H. in Inches	Species	Notes
1	16"	Maple - Acer rubrum	REMOVE
2	16"	Maple - Acer rubrum	SAVE
3	10"	Oak - Quercus rubra	SAVE
4	10"	Oak - Quercus rubra	SAVE
5	6"	Oak - Quercus rubra	SAVE
6	10"	Oak - Quercus rubra	SAVE
7	6"	Crab Apple - Malus	REMOVE
8	10"	Oak - Quercus rubra	SAVE
9	3"	Basswood - Tilia americana	SAVE
10	5"	Pear - Pyrus	SAVE
11	15"	Apple - Malus spp.	SAVE
12	16"	Pear - Pyrus	SAVE
13	30"	Maple - Acer rubrum	SAVE
14	30"	Maple - Acer rubrum	SAVE
15	6"	Walnut - Juglans regia	SAVE
16	24"	Maple - Acer rubrum	SAVE
17	10"	Twin Chinese Elm	SAVE
18	20"	Twin Chinese Elm	SAVE
19	20"	Twin Chinese Elm	SAVE
20	20"	Twin Box Elder	SAVE

NOTE: SEE LANDSCAPE PLAN FOR PROTECTION/PRESERVATION DETAILS

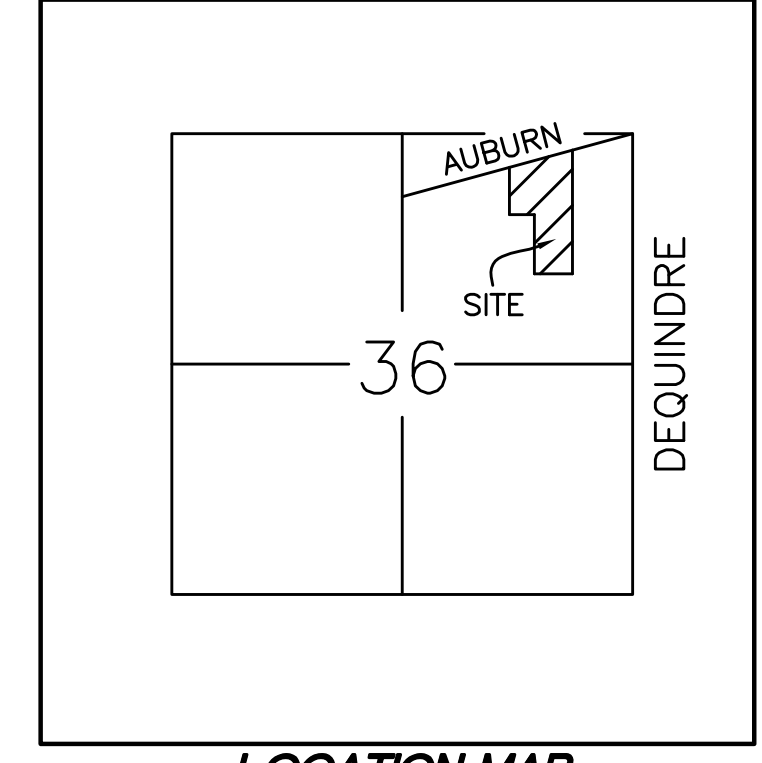


**LEGAL DESCRIPTION (BY OTHERS):**

LOTS 1766 THRU 1783 OF SUPERVISOR'S PLAT OF BROOKLANDS PARK NO. 4, PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 36, TOWN 3, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 28 OF PLATS ON PAGE 42, OAKLAND COUNTY RECORDS.

**LEGEND**

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
- PROPOSED STORM MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER
- UTILITY CROSSING (SEE DATA TABLE)
- STRUCT. TYPE 2-STRUCT. NO.
- STRUCT. NO.
- STRUCT. TYPE
- EXISTING BITUMINOUS PAVEMENT
- EXISTING BITUMINOUS PAVEMENT TO BE REMOVED
- PROPOSED STANDARD BITUMINOUS PAVEMENT/WALK
- CONCRETE PAVEMENT
- STORM SEWER STRUCTURE
- SANITARY STRUCTURE
- WATERMAIN STRUCTURE



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FAX: (313) 967-4707

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2505 W. JEFFERSON  
TRENTON, MI 48183  
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**Gethsemane Lutheran Church**

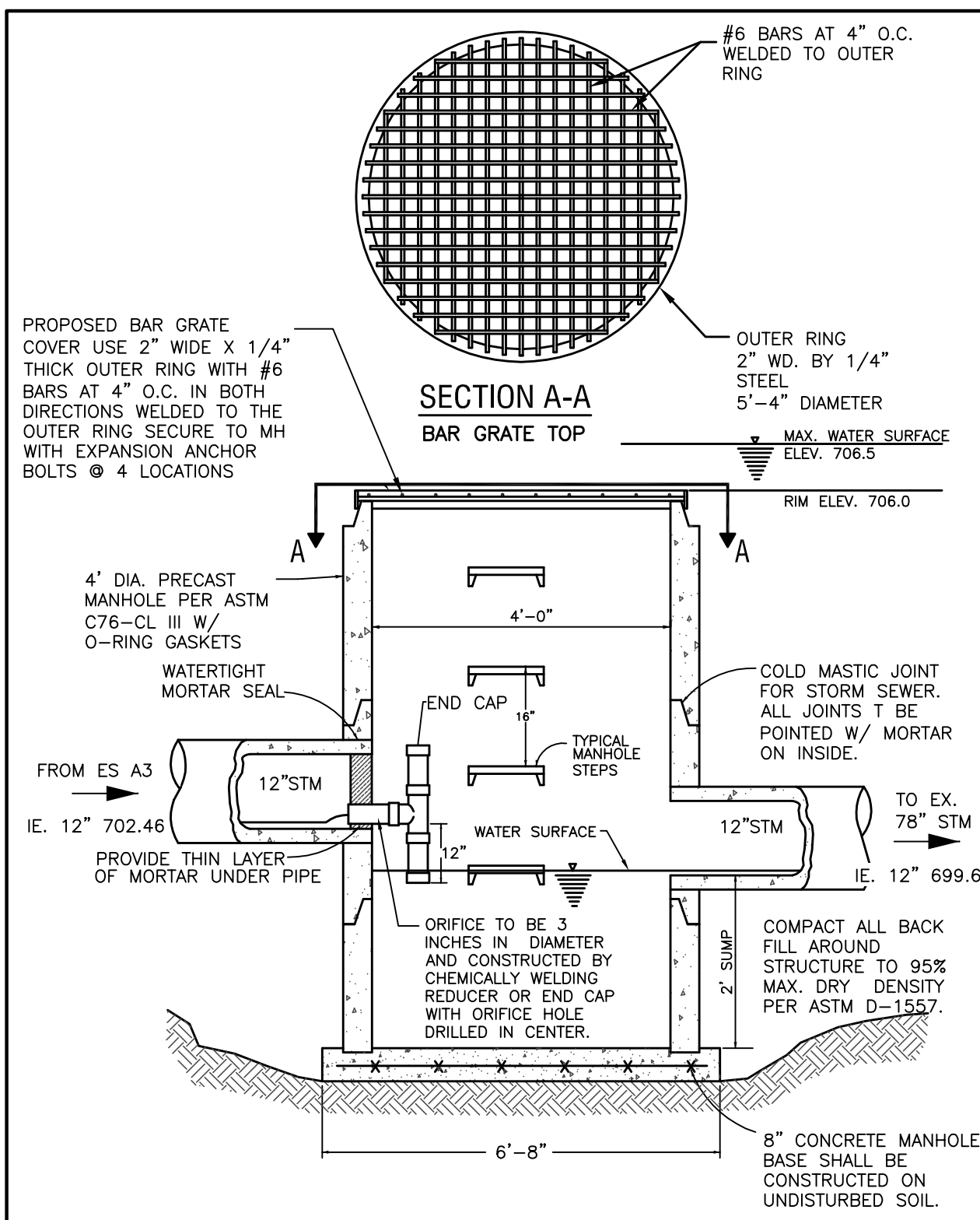
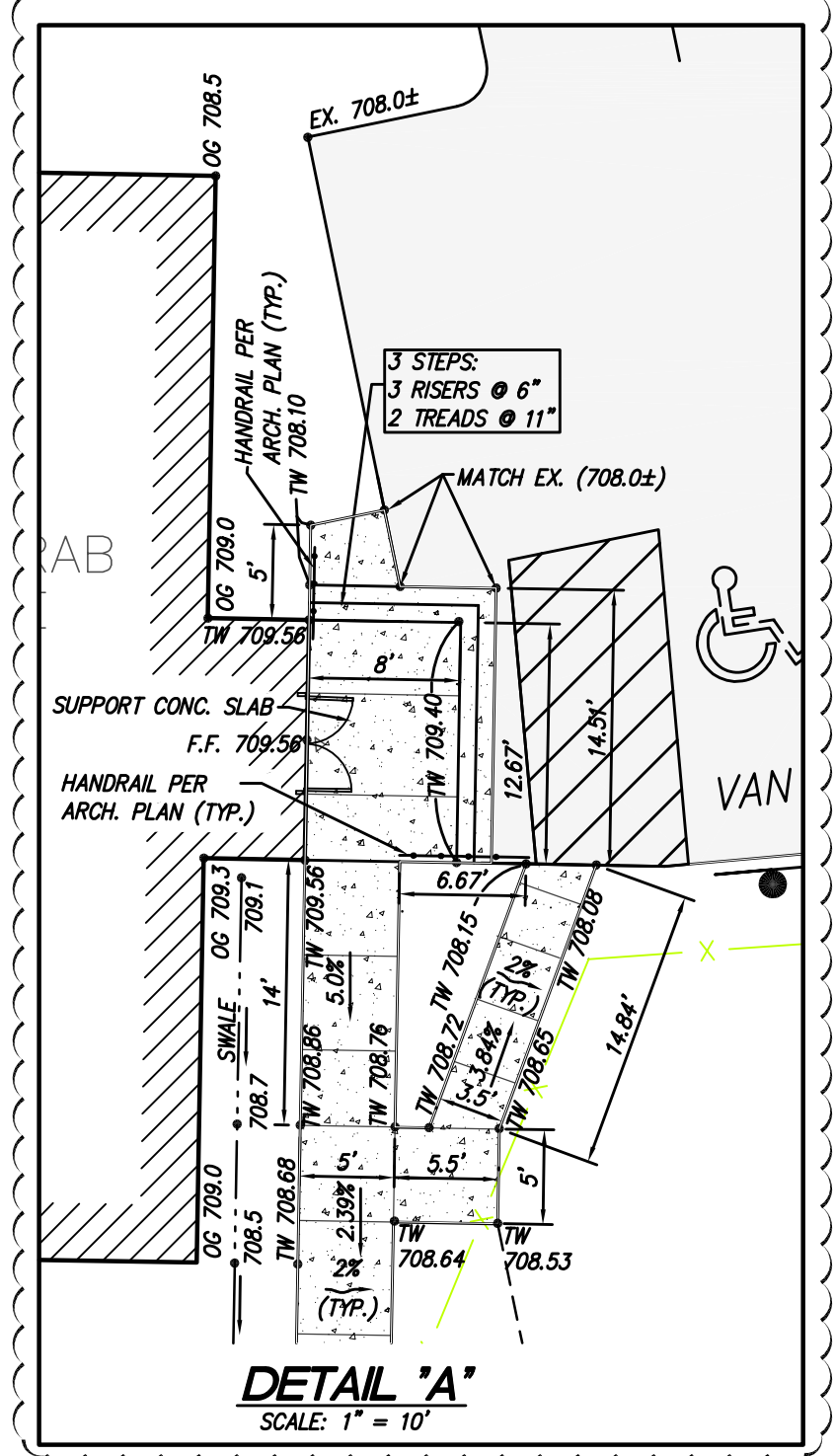
**SITE PLAN**

SECTION 36  
TOWN 3 NORTH RANGE 11 EAST  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY

NO.	DATE	REVISION
1.	07/25/06	SITE PLAN REVIEW
2.	08/11/06	SITE PLAN REVIEW
3.	11/02/06	SITE PLAN REVIEW
4.	01/15/07	SITE PLAN REVIEW
5.	03/06/07	ADA REVISIONS
6.	04/10/07	SITE PLAN REVIEW

LAST	RECORD MEASUREMENTS ADDED TO DRAWING
DRAFTR	DATE
PJK	DATE
DESIGNER	DATE
PJK	07-08-05
CHECKED	DATE
PROJECT MANAGER	BID PLAN DATE
JD	
DEPARTMENT MANAGER	APPROVAL DATE

JOB NO.	DRAWING NO.
DV05-026	DV0526SP.DWG
SCALE:	SHEET NO.
1" = 30'	C.O.1



**OVERFLOW MH A2 WITH RESTRICTOR PIPE DETAIL**  
NOT TO SCALE

**OVERFLOW MANHOLE INLET CAPACITY CALCULATION**  
(100-year storm unrestricted)

10-year Flow to basin = QIES A3) = 1.97 cfs  
Using  $Q = 0.62A^{2/3}(2.2n/s)^{1/3} \cdot 0.5$  where,  $Q = 100$ -year discharge = (275/175)(10 year flow to basin) = 3.096 CFS  
 $A =$  area of opening required at top of manhole  
 $d =$  height of water above manhole = 0.5' (overflow spillway elev=706.5; overflow manhole elev=706.0)

Required area,  $A = 3.096 / 0.62(64.4 \cdot 0.5)^{2/3} = 0.88$  SF  
 $A = 3.14 \cdot R^2$       $R = 0.53$  FT  
 $D = 1.06$  FT (Required) => Use a 4' diameter manhole.

**PIPE SIZING CALCULATION BETWEEN OMH A2 & Ex. 78" pipe (100-year storm unrestricted)**

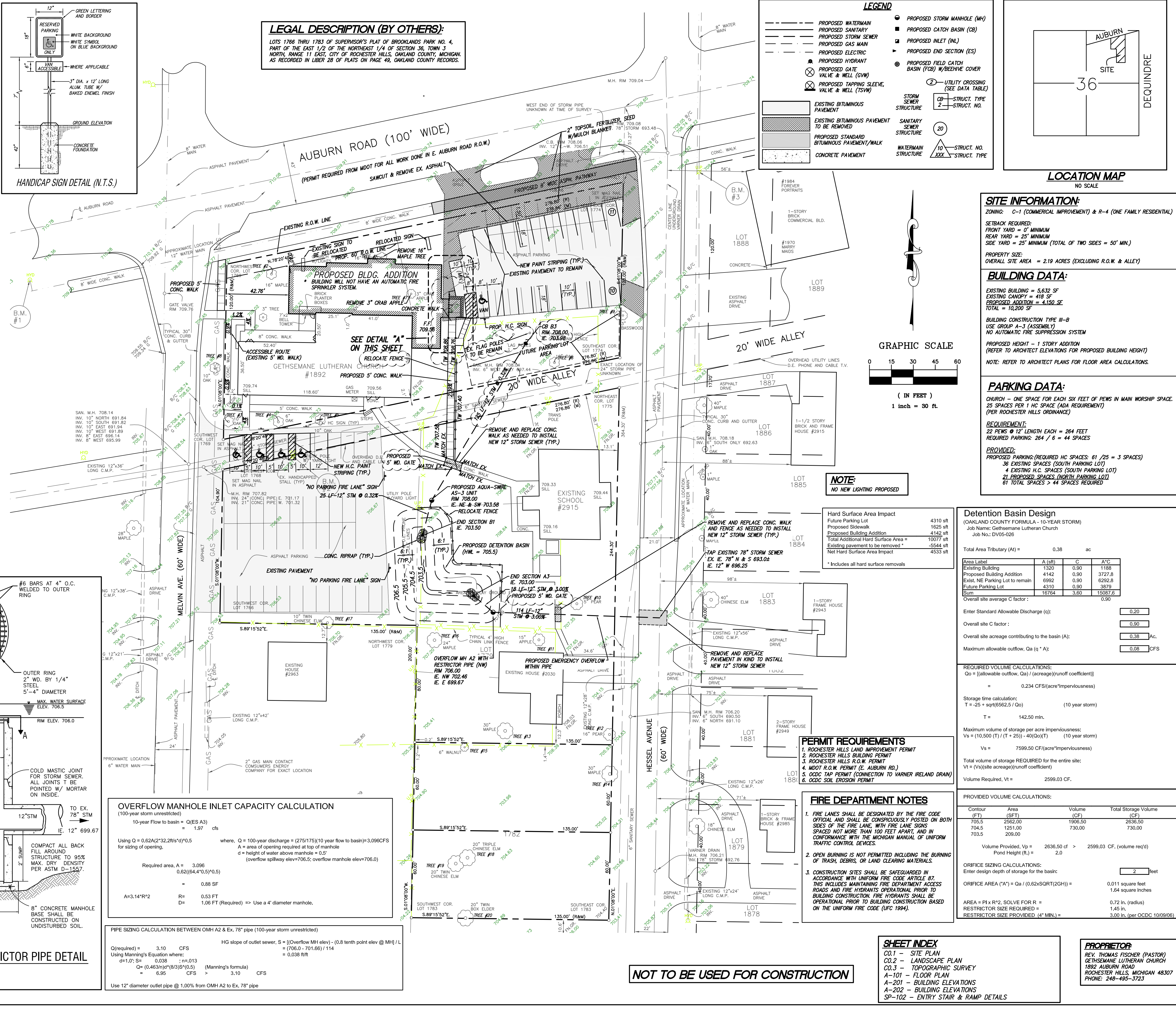
$Q_{required} = 3.10$  CFS     HG slope of outlet sewer,  $S = [(706.0 \text{ (Overflow MH elev)} - 0.8 \text{ tenth point elev @ MH}] / L = (706.0 - 701.66) / 114 = 0.038$  ft/ft  
Using Manning's Equation where:  $d = 1.0'$ ;  $n = 0.038$       $Q = (0.463n^{4/3}d^{4/3}S^{1/2}) / (Manning's formula) = 6.85$  CFS      $S = 3.10$  CFS  
Use 12" diameter outlet pipe @ 1.00% from OMH A2 to Ex. 78" pipe

**NOT TO BE USED FOR CONSTRUCTION**

**SHEET INDEX**

- CO.1 - SITE PLAN
- CO.2 - LANDSCAPE PLAN
- CO.3 - TOPOGRAPHIC SURVEY
- A-101 - FLOOR PLAN
- A-201 - BUILDING ELEVATIONS
- A-202 - BUILDING ELEVATIONS
- SP-102 - ENTRY STAIR & RAMP DETAILS

**PROPRIETOR:**  
REV. THOMAS FISCHER (PASTOR)  
GETHESEMANE LUTHERAN CHURCH  
1892 AUBURN ROAD  
ROCHESTER HILLS, MICHIGAN 48307  
PHONE: 248-495-3723

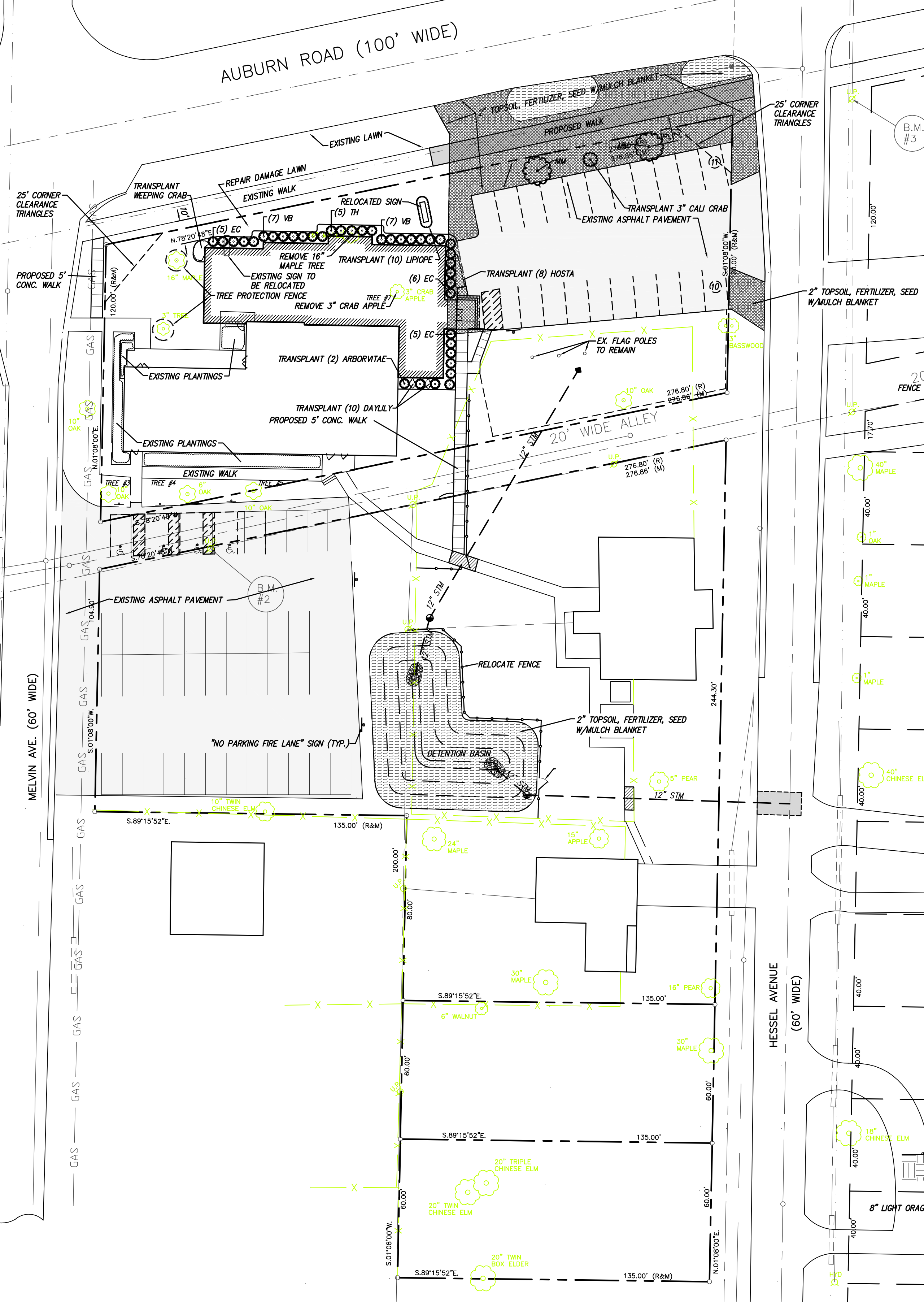
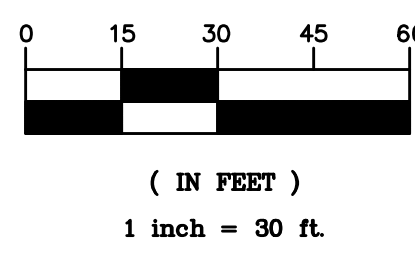




**CONSTRUCTION NOTES:**

- (2) NEW TREES PROPOSED.
- (2) EXISTING TREE TO BE REMOVED.
- TRANSPLANTS BY OWNER.
- ALL NEW LANDSCAPE AREAS TO BE IRRIGATED. IRRIGATION PLAN TO FOLLOW.
- INSTALL 4" SHREDDED HARDWOOD MULCH THROUGHOUT ALL PLANTING AREAS.

**GRAPHIC SCALE**



**LANDSCAPE PLAN**  
SCALE: 1" = 30'

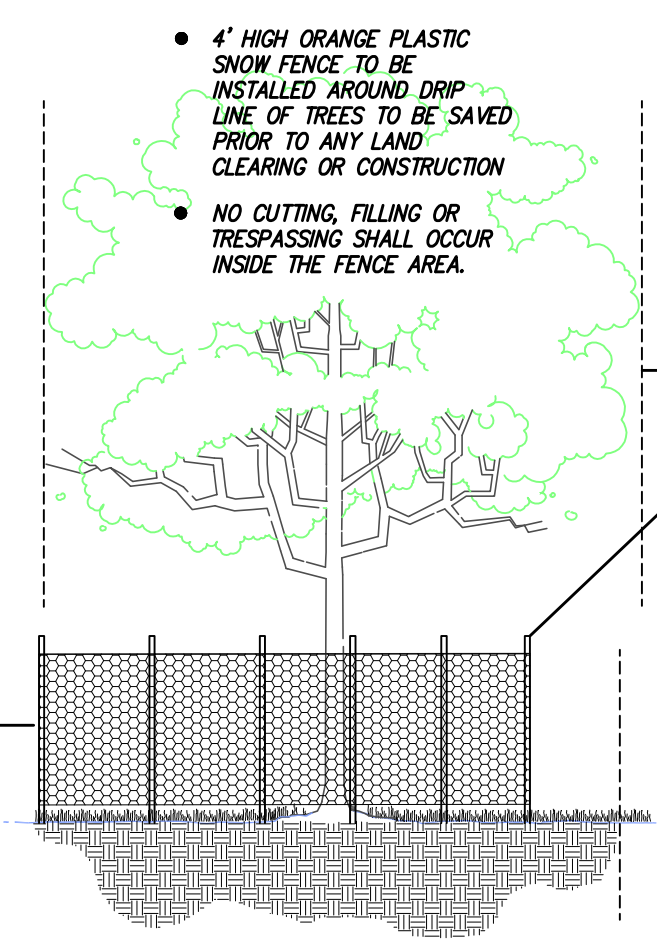
PLANTING SCHEDULE							
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	REMARKS	
EC	16 EA.	EUONYMUS A COMPACTUS	DWARF BURNINGBUSH	B + B	24-36" HT.		\$ 48.00 (16) = \$ 768.00
MM	2 EA.	MALUS SPRING SNOW	SPRING SNOW CRAB	B + B	2" CAL.		\$200.00 (2) = \$ 400.00
TH	5 EA.	THUUA O. TECHNY	MISSION ARBORVITAE	B + B	5' HT.		\$ 90.00 (5) = \$ 450.00
VB	14 EA.	VIBURNUM T. COMPACTUM	COMPACT CRANBERRY BUSH	B + B	24-36" HT.		\$ 60.00 (14) = \$ 840.00
INSTALLED PRICES TOTAL =							\$ 2,458.00

**LANDSCAPE COST ESTIMATE:**

PLANTS	\$2,458.00
TOPSOIL & SEED	\$1000.00
IRRIGATION	\$2000.00
MATERIAL & INSTALLATION TOTAL =	\$5458.00

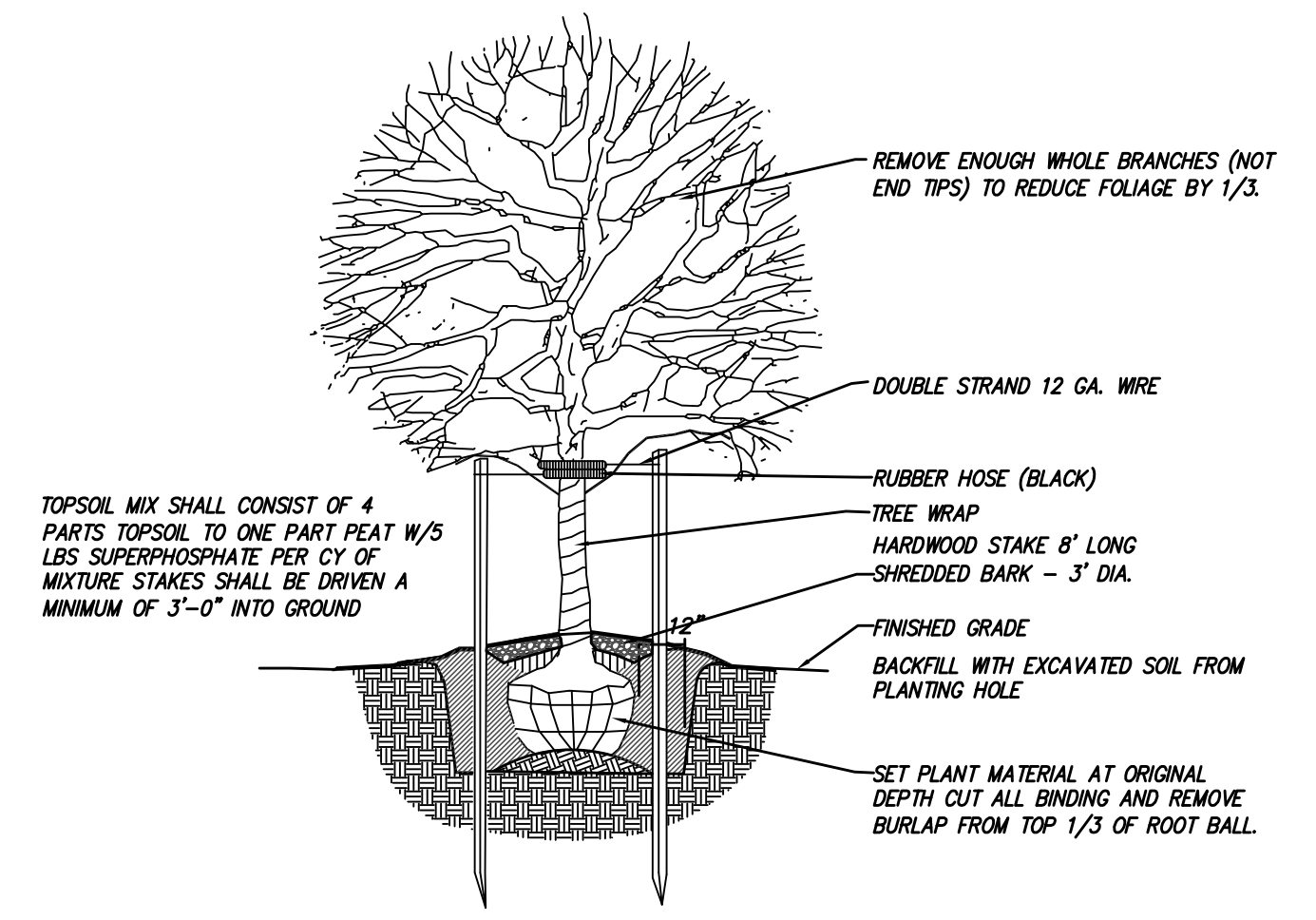
**TREE PRESERVATION GENERAL REQUIREMENTS**

- FENCING OF TREES PRIOR TO CONSTRUCTION: TREES TO BE SAVED ARE SHOWN ON THE PLAN. THE CONTRACTOR SHALL INSTALL A 4" HIGH FENCE AROUND THE TREE DRIP LINES PRIOR TO ANY LAND CLEARING OR CONSTRUCTION. SEE TREE FENCING DETAIL.
- FENCING AND PROTECTION OF TREES DURING CONSTRUCTION: CONSTRUCTION LIMIT FENCING SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD IN THE SAME LOCATIONS AND IN THE SAME CONDITION AS WAS APPROVED BY THE CITY.

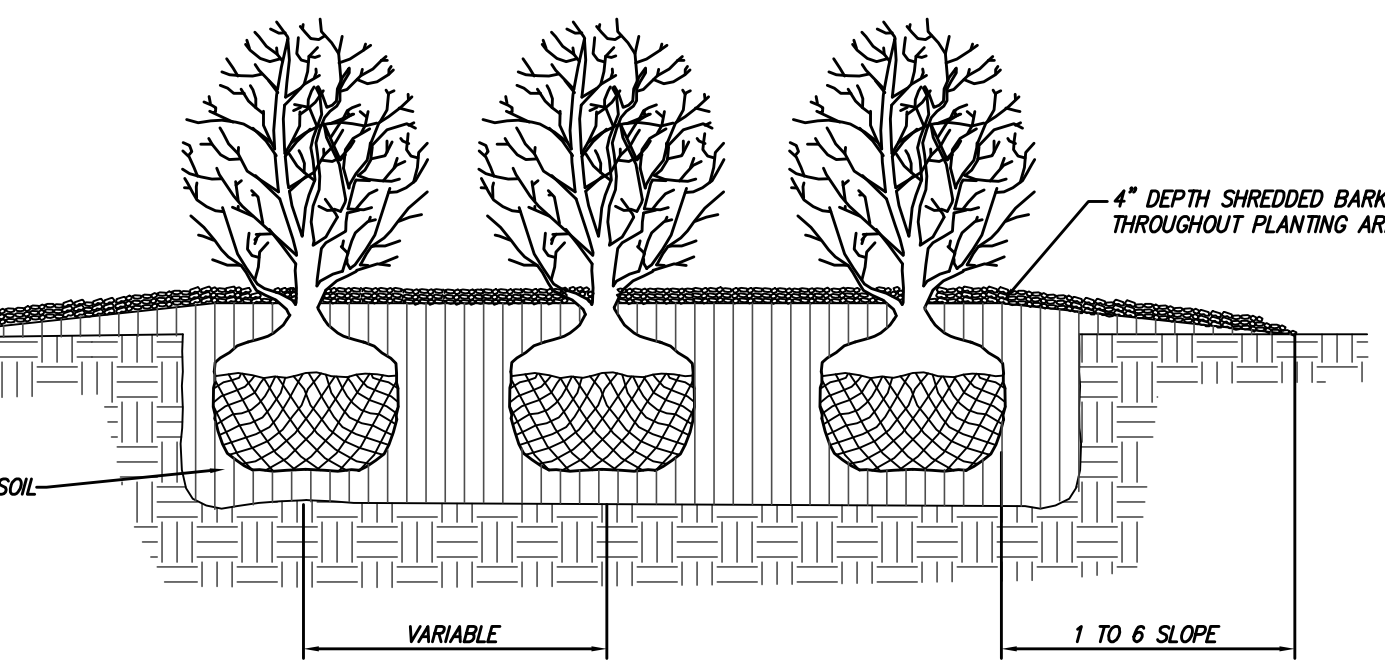


- REMOVAL OR RELOCATION OF FENCING IS NOT TO OCCUR WITHOUT APPROVAL FROM THE CITY. NO TRENCHING, CUTTING, FILLING OR STORAGE OF MATERIALS SHALL OCCUR INSIDE FENCED AREAS WITHOUT PRIOR APPROVAL.
- TREE DRIP LINE
- FENCE - ALTERNATE LOCATION 3' BACK OF PROPOSED WALK & CURBS
- PROPOSED SIDEWALK OR CURB EDGE
- STEEL POSTS EVERY 10' INSTALL POSTS 2' IN GROUND.
- FENCE AT TREE DRIP LINE
- FENCE - ALTERNATE LOCATION WHERE PROPOSED SIDEWALK OR CURB ENDOUCHES ON THE TREE DRIP LINE, FENCE TO BE SET BACK 3'.

**TYPICAL SNOWFENCE INSTALLATION**  
NO SCALE

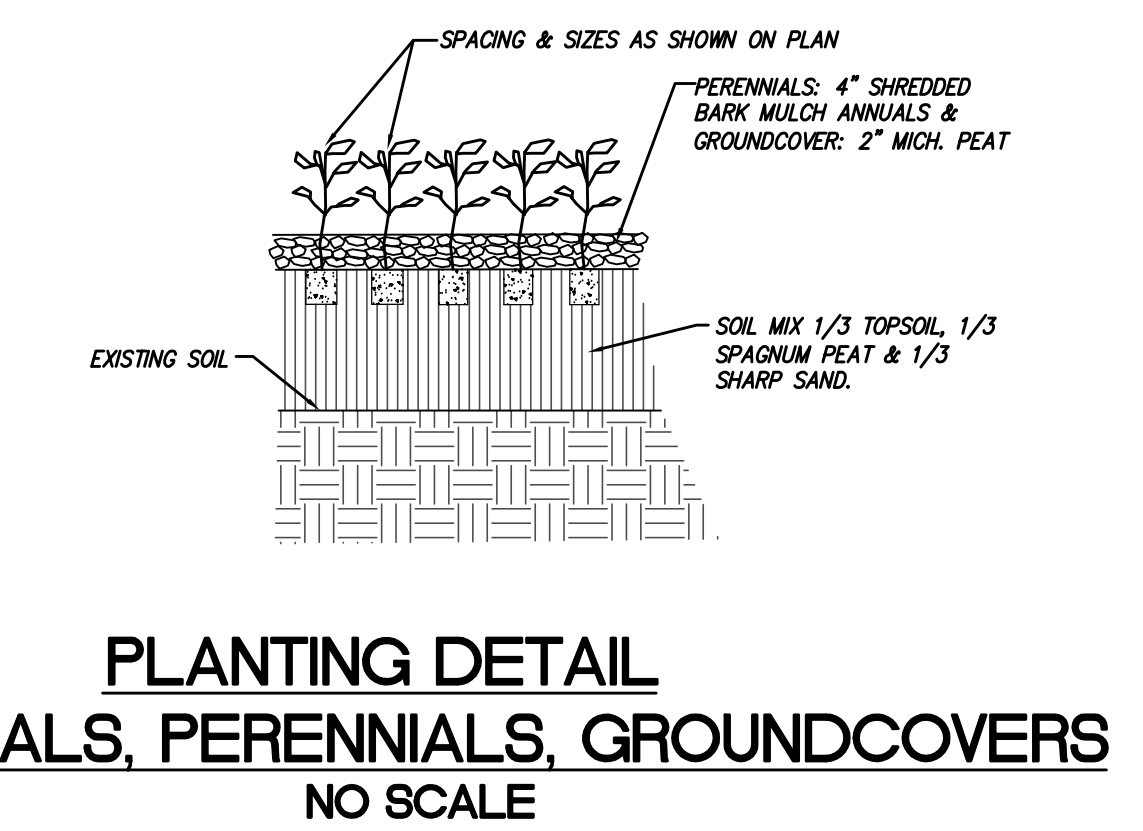


**TREE PLANTING DETAIL**  
NO SCALE



**SHRUB PLANTING DETAIL**  
NO SCALE

- LANDSCAPE NOTES:**
- PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT MUST INSPECT ALL LANDSCAPE PLANTINGS INCLUDING BUT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, BUFFER PLANTINGS AND PARKING LOT ISLANDS. THE RIGHT-OF-WAY WILL BE INSPECTED BY THE FORESTRY DIVISION TO IDENTIFY ANY PLANTINGS NEW OR EXISTING THAT POSE A HAZARD TO THE SAFE USE OF THE RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE AND POSSIBLY REPLACE ANY SUCH TREES.
  - ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF PUBLIC ROADWAY. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF A PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A PUBLIC WALKWAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10' FROM THE NEAREST UNDERGROUND UTILITY.
  - NO TREE OR SHRUB MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-A-WAY AT A DISTANCE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREE OR SHRUB MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC SIDEWALK AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION.
  - PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB IN THE PUBLIC RIGHT-A-WAY.
  - NO SUBSTITUTIONS OR CHANGES OF LOCATION OF PLANT TYPES SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.
  - THE DEVELOPER AND/OR THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT SHALL HAVE THE RIGHT, AT ANY STAGE OF THE INSTALLATION, TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.
  - REPLACEMENT TREES MAY NOT BE PLANTED WITHIN DRIP LINE OF EXISTING TREES.
  - NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPE SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.
  - TREES MUST BE AT LEAST 10' FROM UNDERGROUND UTILITIES AND 15' FROM OVERHEAD UTILITIES.
  - ALL LANDSCAPING MUST BE WARRANTED BY THE DEVELOPER/OWNER FOR A PERIOD OF 2 YEARS FROM THE DATE OF APPROVAL BY THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.
  - PRIOR TO ISSUING THE LAND IMPROVEMENT PERMIT FOR IT WILL BE NECESSARY FOR THE TREE PROTECTIVE FENCING (TPF) TO BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S LANDSCAPE ARCHITECT.
  - PRIOR TO ISSUING THE LAND IMPROVEMENT PERMIT FOR THIS DEVELOPMENT THE FOLLOW PERFORMANCE BONDS MUST BE POSTED:  
LANDSCAPE BOND - GENERAL LANDSCAPING \$5,458.00



**PLANTING DETAIL**  
ANNUALS, PERENNIALS, GROUNDCOVERS  
NO SCALE

**NOT TO BE USED FOR CONSTRUCTION**

**PROPRIETOR:**  
REV. THOMAS FISCHER (PASTOR)  
GETHSEMANE LUTHERAN CHURCH  
1892 AUBURN ROAD  
ROCHESTER HILLS, MICHIGAN 48307  
PHONE: 248-495-3723



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**Gethsemane Lutheran Church**

**LANDSCAPE PLAN**

SECTION 36  
TOWN 3 NORTH RANGE 11 EAST  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY

NO.	DATE	REVISION
1.	07/25/06	SITE PLAN REVIEW
2.	08/11/06	SITE PLAN REVIEW
3.	11/02/06	SITE PLAN REVIEW
4.	01/15/07	SITE PLAN REVIEW
5.	04/10/07	SITE PLAN REVIEW

LAST	RECORD MEASUREMENTS ADDED TO DRAWING
DRAFTER PJK	DATE
DESIGNER PJK	DATE 07-08-05
CHECKED	DATE
PROJECT MANAGER JD	BID PLAN DATE
DEPARTMENT MANAGER APPROVAL	DATE

VERIFIED SCALES	
BAR IS ONE INCH ON ORIGINAL DRAWING	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
JOB NO. DV05-026	DRAWING NO. DV0526LS.DWG
SCALE: 1" = 30'	SHEET NO. C0.2



# ARCHITECTURAL SURVEY



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## Gethsemane Lutheran Church

### TOPOGRAPHICAL SURVEY

SECTION 36  
TOWN 3 NORTH RANGE 11 EAST  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY

NO.	DATE	REVISION
1.	07/25/06	SITE PLAN REVIEW
2.	08/11/06	SITE PLAN REVIEW
3.	11/02/06	SITE PLAN REVIEW
4.	12/12/06	KING SURVEYING UPDATE
5.	04/10/07	SITE PLAN REVIEW

LAST RECORD MEASUREMENTS ADDED TO DRAWING

DRAFTER: PJK DATE: 07-08-05  
DESIGNER: PJK DATE: 07-08-05  
CHECKED: DATE: 07-08-05

PROJECT MANAGER: JD BID PLAN DATE: 07-08-05  
DEPARTMENT MANAGER: APPROVAL DATE: 07-08-05

REVISIONS ON 12-12-06 INCLUDE RESIDENTIAL HOMES, COMMERCIAL BUILDINGS AND LOT LINES EAST OF HESSEL AVENUE AND PROPERTY TIES TO THE NORTHEAST CORNER OF SECTION 36, TOWN 3 NORTH, RANGE 11 EAST.

REVISIONS ON 12-12-06 INCLUDE RESIDENTIAL HOMES, COMMERCIAL BUILDINGS AND LOT LINES EAST OF HESSEL AVENUE AND PROPERTY TIES TO THE NORTHEAST CORNER OF SECTION 36, TOWN 3 NORTH, RANGE 11 EAST.

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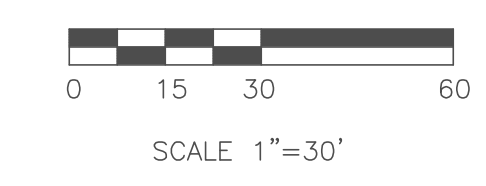
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"O" = SET IRON W/CAP #30085 UNLESS OTHERWISE NOTED

#### SITE BENCHMARKS

- BENCHMARK #1 ARROW ON HYDRANT 712.13 (U.S.G.S.)
- BENCHMARK #2 MAG NAIL IN UTILITY POLE 707.81 (U.S.G.S.)
- BENCHMARK #3 RAIL ROAD SPIKE IN UTILITY POLE 709.54 (U.S.G.S.)

UTILITIES SERVICING SITE

Electric: Detroit Edison Company  
Gas: Consumers Energy Company  
Telephone: SBC Ameritech  
Sanitary Sewer: Rochester Hills  
Water Service: Rochester Hills  
Cable TV: Comcast Cable

NOTE: Above utilities are as shown from evidence in field and from record information supplied by utilities companies and municipalities. All locations are approximate and no guarantee is given that they are complete.

Call "MISS DIG" 72 hours prior to excavation or construction. Also contact concerned utility companies and municipalities.



TOPOGRAPHIC and/or BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS A CONTRACTOR TO THE SELLER/OWNER:

KING SURVEYING, INC.  
22657 IRWIN ROAD  
ARMADA, MICHIGAN 4805  
(586) 784-4800

SPALDING DEDECKER ASSOCIATES, INC. WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN OMISSIONS RESULTING FROM SURVEY INACCURACIES.

LEGAL DESCRIPTION

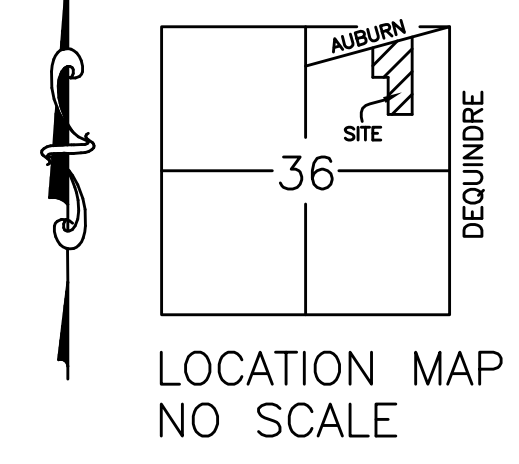
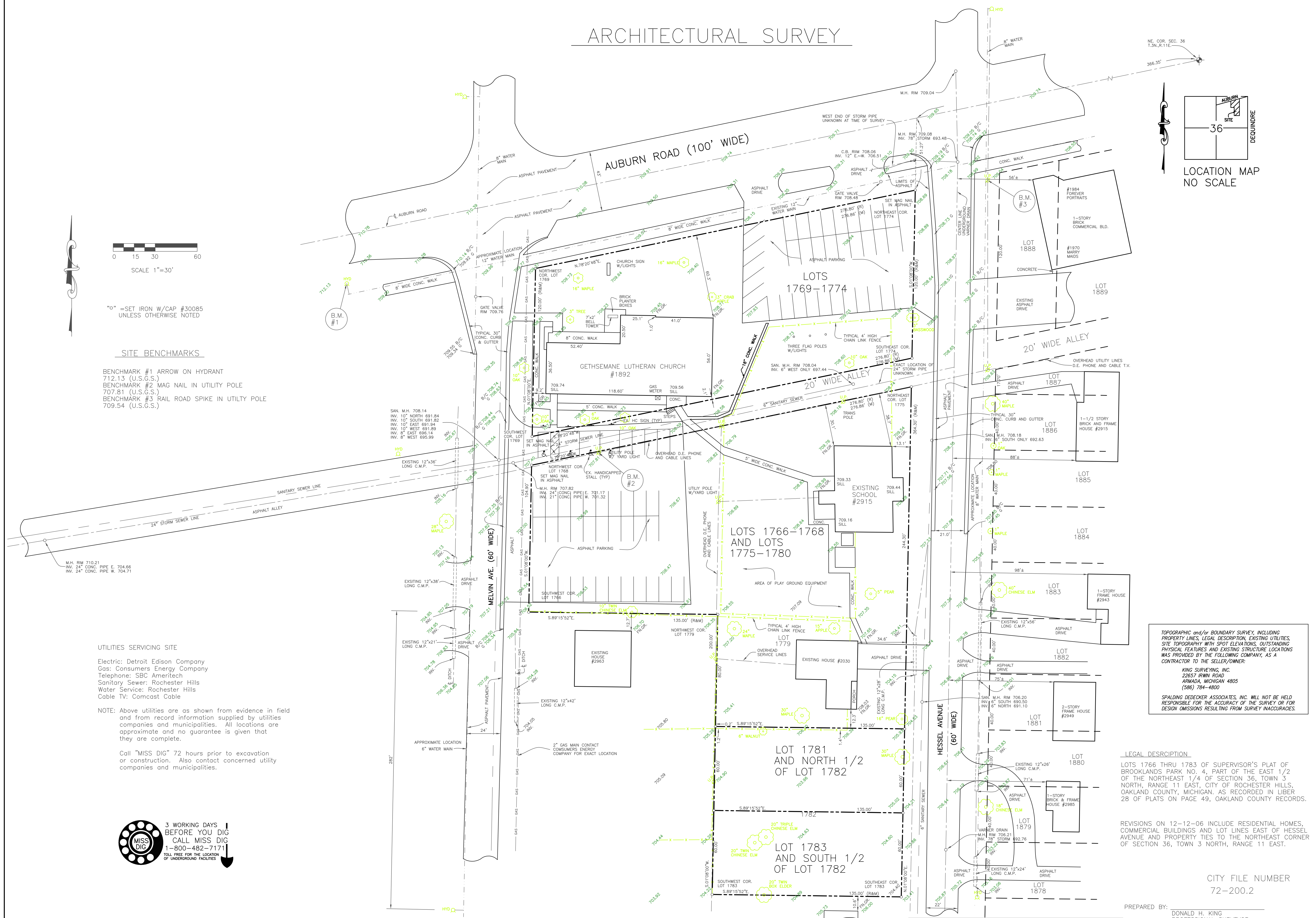
LOTS 1766 THRU 1783 OF SUPERVISOR'S PLAT OF BROOKLANDS PARK NO. 4, PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 36, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 28 OF PLATS ON PAGE 49, OAKLAND COUNTY RECORDS.

REVISIONS ON 12-12-06 INCLUDE RESIDENTIAL HOMES, COMMERCIAL BUILDINGS AND LOT LINES EAST OF HESSEL AVENUE AND PROPERTY TIES TO THE NORTHEAST CORNER OF SECTION 36, TOWN 3 NORTH, RANGE 11 EAST.

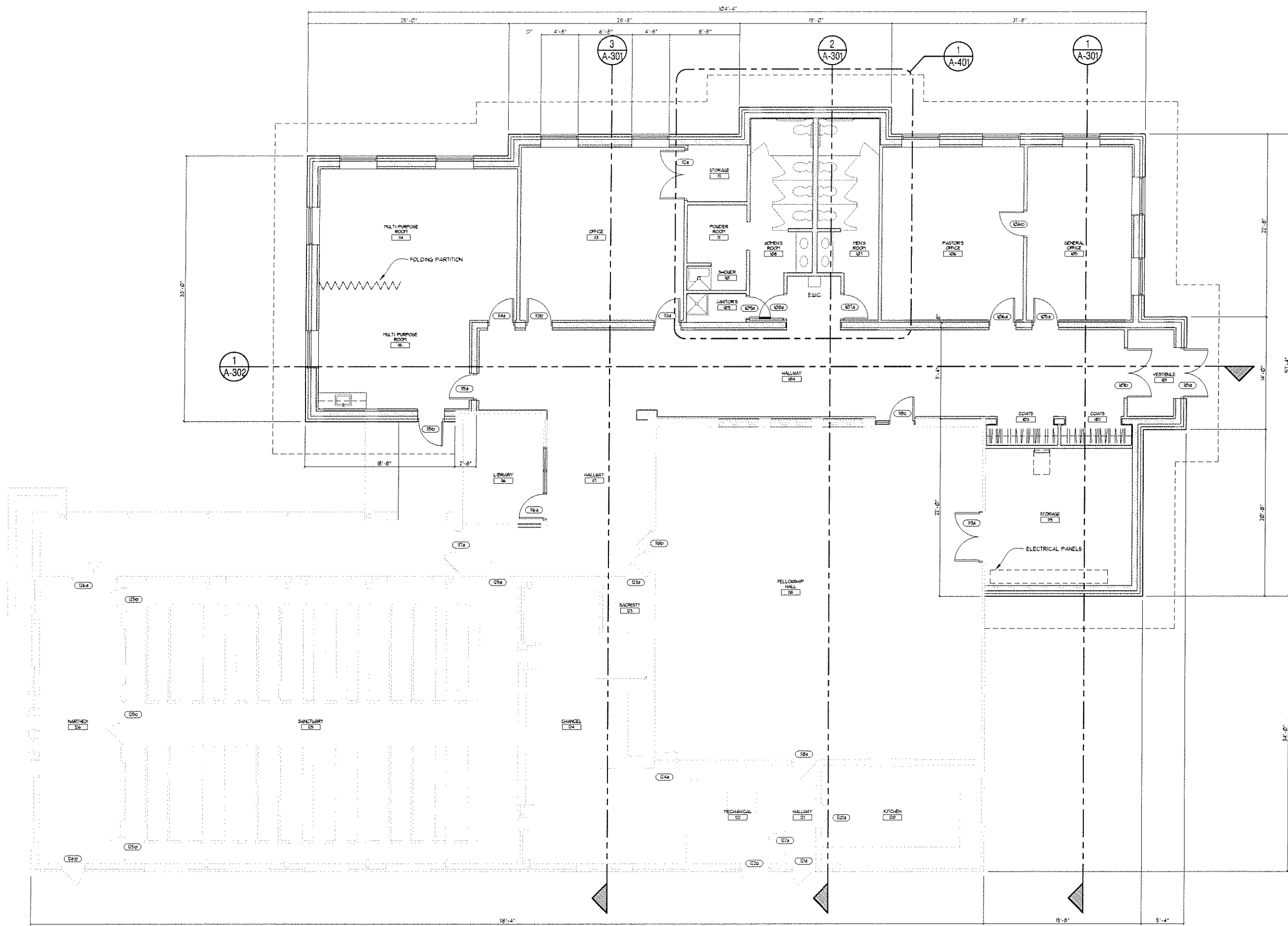
CITY FILE NUMBER  
72-200.2

PREPARED BY:  
DONALD H. KING  
PROFESSIONAL SURVEYOR  
MICHIGAN LICENSE NO. 30085

**NOT TO BE USED FOR CONSTRUCTION**







NORTH  
 1 FLOOR PLAN  
 A-101 SCALE: 3/16" = 1'-0"



DERRICK J. MROZ  
 ARCHITECTS, LLC  
 4048 EMERALD PINES DRIVE  
 COMMERCE TWP., MI 48390  
 PHONE: (248) 763-7796



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03-14-05	REVIEW
04-11-05	SITE PLAN REVIEW
01-24-06	SITE PLAN REVIEW
02-23-06	REVIEW
08-05-06	SITE PLAN REVIEW
11-02-06	SITE PLAN REVIEW
01-15-07	SITE PLAN REVIEW
03-12-07	SITE PLAN REVIEW
04-10-07	SITE PLAN REVIEW

JOB NUMBER:  
**0402**  
 CITY FILE #72-200.2  
 PROJECT TITLE:  
**GETHSEMANE  
 LUTHERAN  
 CHURCH**  
 1892 E. AUBURN RD.  
 ROCHESTER HILLS, MI  
 48307

SHEET TITLE:  
**FLOOR  
 PLAN**

SHEET NUMBER:  
**A-101**



4048 EMERALD PINES DRIVE  
COMMERCE TWP., MI 48390  
PHONE: (248) 763-7796



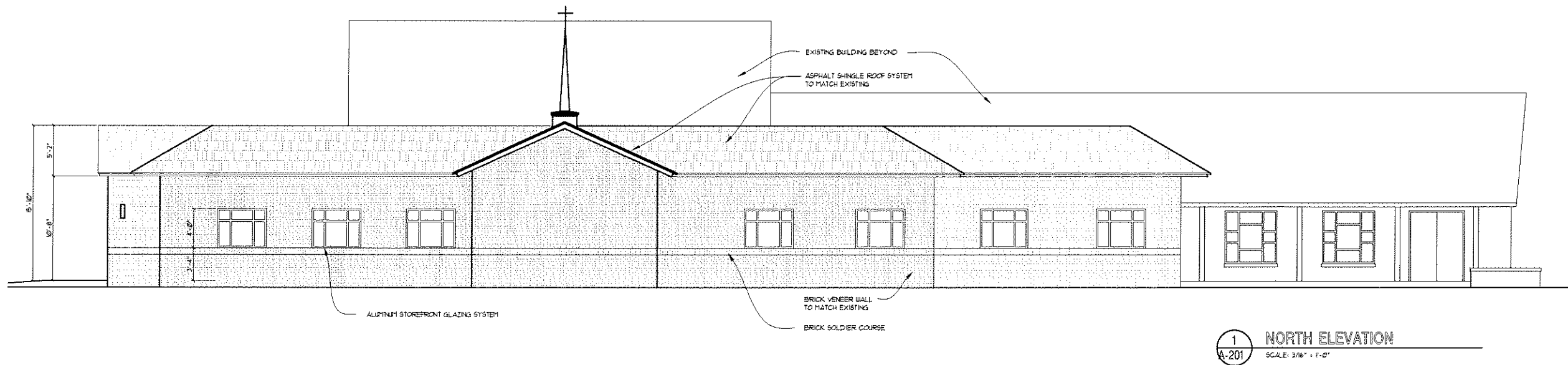
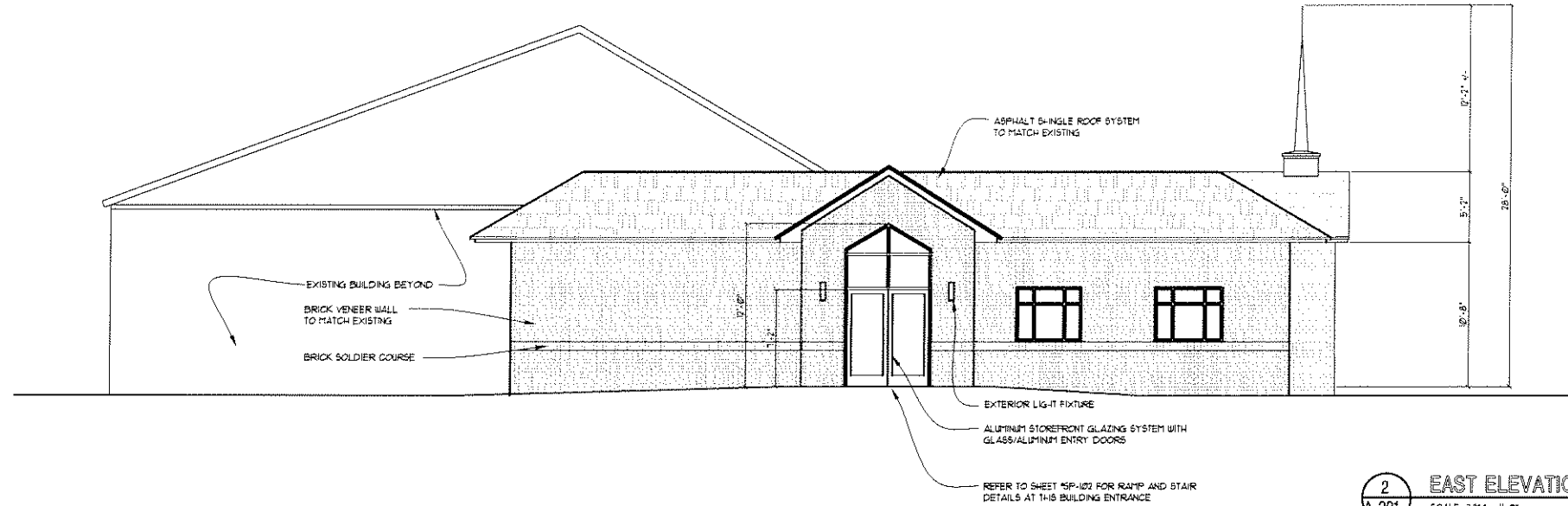
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01-15-07	SITE PLAN REVIEW
03-12-07	SITE PLAN REVIEW
04-10-07	SITE PLAN REVIEW

JOB NUMBER:  
**0402**  
CITY FILE #72-200.2  
PROJECT TITLE:  
**GETHSEMANE  
LUTHERAN  
CHURCH**  
1892 E. AUBURN RD.  
ROCHESTER HILLS, MI  
48307

SHEET TITLE:  
**BUILDING  
ELEVATIONS**

SHEET NUMBER:  
**A-201**





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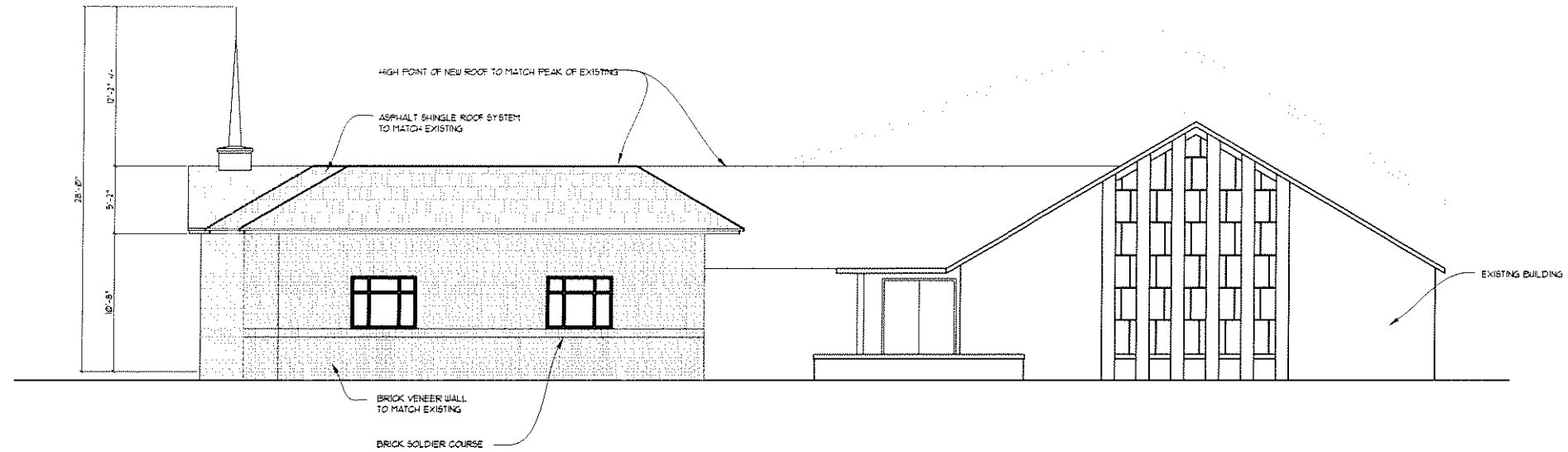
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01-24-06 SITE PLAN REVIEW  
08-06-06 SITE PLAN REVIEW  
11-02-06 SITE PLAN REVIEW  
01-15-07 SITE PLAN REVIEW  
03-12-07 SITE PLAN REVIEW  
04-10-07 SITE PLAN REVIEW

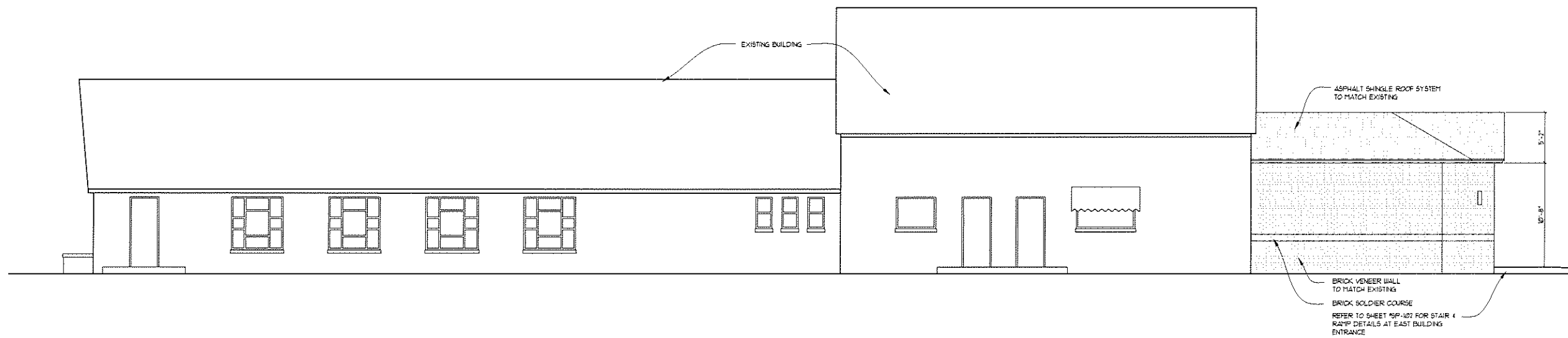
JOB NUMBER:  
**0402**  
CITY FILE #72-200.2  
PROJECT TITLE:  
**GETHSEMANE  
LUTHERAN  
CHURCH**  
1892 E. AUBURN RD.  
ROCHESTER HILLS, MI  
48307

SHEET TITLE:  
**BUILDING  
ELEVATIONS**

SHEET NUMBER:  
**A-202**



**2 WEST ELEVATION**  
SCALE: 3/16" = 1'-0"



**1 SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0"



DERRICK J. MROZ  
ARCHITECTS, LLC

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COMMERCE TWP., MI 48390  
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03-12-07 SITE PLAN REVIEW  
04-10-07 SITE PLAN REVIEW

JOB NUMBER:  
**0402**  
CITY FILE #72-200.2  
PROJECT TITLE:  
**GETHSEMANE  
LUTHERAN  
CHURCH**  
1892 E. AUBURN RD.  
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48307

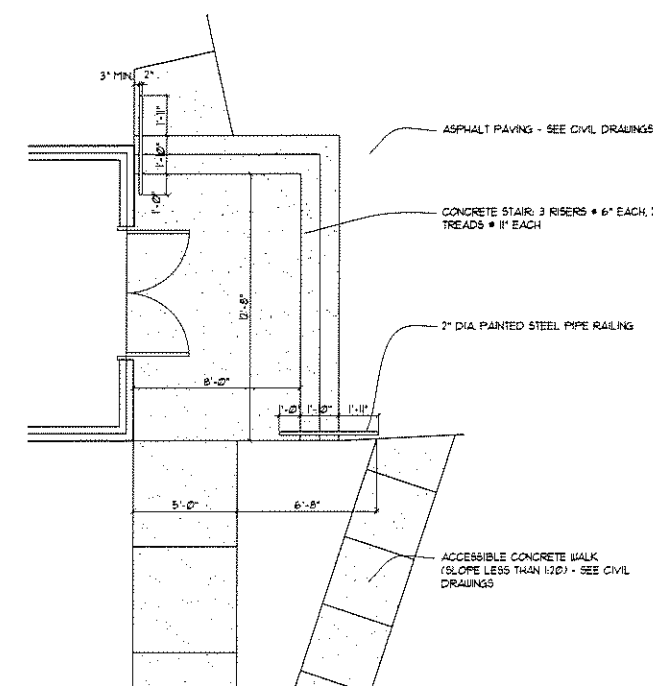
SHEET TITLE:  
**ENTRY STAIR  
& RAMP  
DETAILS**

SHEET NUMBER:  
**SP-102**



**2**  
ENLARGED EAST ELEVATION  
SCALE: 1/2" = 1'-0"

REFER TO CIVIL DRAWINGS FOR GRADES,  
ELEVATIONS AND SLOPES



**1**  
ENLARGED STAIR & PLAN  
SCALE: 1/4" = 1'-0"