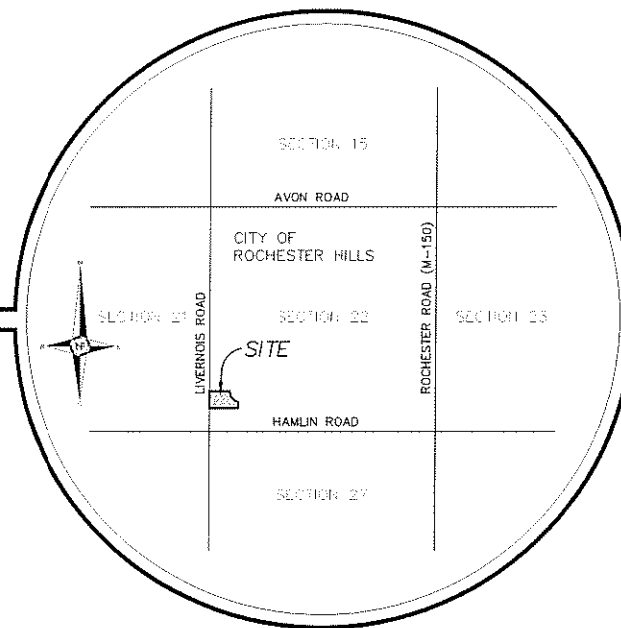
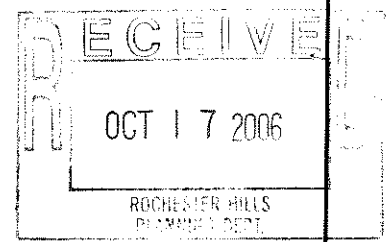


# Han-Bit Korean Christian Reformed Church

PART OF THE SOUTHWEST 1/4 OF SECTION 22,  
T3N-R11E, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN  
**PRELIMINARY SITE PLAN**



Location Map  
SCALE: 1" = 200'



**LEGAL DESCRIPTION**

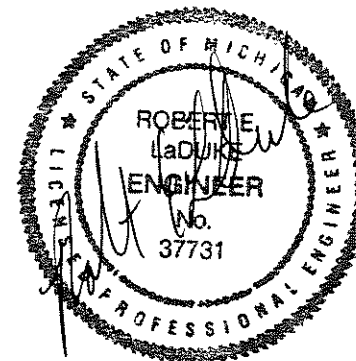
A part of the Southwest 1/4 of Section 22, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, being more particularly described as follows:

Commencing at the West 1/4 Corner of Section 22; thence S 02°31'08" E, 866.24 feet along the West line of Section 22; thence S 87°08'51" W 60.00 feet to the Southwest corner of Lot 33 of "Avon Hills Village Subdivision" as recorded in Liber 154, Pages 14 & 15, Oakland County Records, said point also being the Point of Beginning; thence the following four (4) courses along the Southerly and Westerly lines and arcs of said "Avon Hills Village Subdivision"; (1) S 87°08'51" W 470.43 feet; (2) 120.00 feet along the arc of a curve to the left (radius 350.00 feet, central angle 19°38'38", chord bears S 17°55'15" E, 119.41 feet); (3) 223.50 feet along the arc of a curve to the left (radius 245.00 feet, central angle 52°16'04", chord bears S 53°52'16" E, 215.83 feet) and (4) S 02°51'09" E 148.93 feet; thence S 87°08'51" W, 671.59 feet to a point on the Easterly line of Livernois Road (60 feet 1/2 width right-of-way); thence N 02°31'08" W, 400.00 feet along said Easterly line of Livernois Road to the Point of Beginning. Containing 5.326 acres or 231,994 square feet and subject to easements & restrictions of record.

**SHEET INDEX**

- C-1 BOUNDARY & TOPOGRAPHIC SURVEY
- C-2 TREE SURVEY
- C-3 SITE & PAVING PLAN
- C-4 UTILITY & GRADING PLAN
- C-5 DRAINAGE CALCULATIONS PLAN
- L1 TREE PRESERVATION PLAN
- L2 LANDSCAPE PLAN
- L3 LANDSCAPE NOTES AND DETAILS
- P-1 SITE LIGHTING PHOTOMETRIC VALUES

THESE DRAWINGS  
SHALL NOT BE USED  
FOR CONSTRUCTION



**CLIENT**

Han-Bit Korean Christian Reformed Church  
1849 South Livernois Road  
Rochester Hills, MI 48307

Rev. Young Ju Oh  
(248) 608-9888

Prepared By:

**NF NOWAK & FRAUS**

Consulting Engineers • Land Surveyors • Land Planners

46777 Woodward Avenue Tel. (248) 332-7931  
Pontiac, Michigan 48342 Fax. (248) 332-8257

Issue Date: June 27, 2006  
Revised Date: September 13, 2006  
Revised Date: October 16, 2006



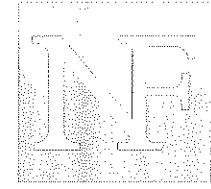






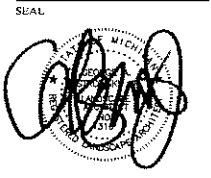






# NOWAK & FRAUS

Consulting Engineers  
Land Surveyors  
Land Planners  
1310 N. Stephenson Highway  
Royal Oak, MI 48067-1508  
Tel. (248) 399-0866  
Fax. (248) 399-0805



PROJECT  
Building Addition

CLIENT  
Han-Bit Korean Christian  
Reformed Church  
1849 South Livernois Rd.  
Rochester Hills, MI 48307  
CONTACT  
Rev. Young Ju Oh  
Tel: (248) 608-9888

PROJECT LOCATION  
Part of the Southwest 1/4  
of Section 22  
T3N-R11E,  
City of Rochester Hills,  
Oakland Co., Michigan

SHEET  
Tree Preservation Plan

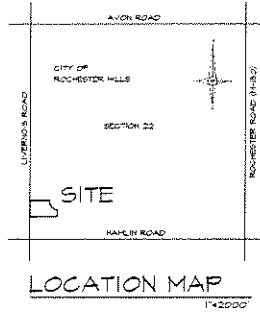


DATE	REVISION
05/10/08	REVISED PER CITY REVIEW
06/21/08	REVISED PER CITY REVIEW
06/21/08	REVISED PER CLIENT
06/26/08	REVISED PER CITY REVIEW

DRAWN BY:  
A. Goldgraber  
DESIGNED BY:  
G. Ostrowski  
APPROVED BY:  
G. Ostrowski

DATE  
07-13-05  
SCALE  
1" = 30'

NF JOB NO.  
D901  
SHEET NO.  
L1



**TREE PRESERVATION SUMMARY**

TOTAL TREES SURVEYED:	75
MINUS DEAD TREES:	0
MINUS ASH TREES:	-4
MINUS TREES OFF-SITE:	-6
TOTAL REGULATED TREES ON-SITE:	60
TOTAL REGULATED TREES SAVED:	51 (85%)
TOTAL REPLACEMENT CREDITS REQUIRED:	9
TOTAL REPLACEMENT CREDITS PROVIDED:	9

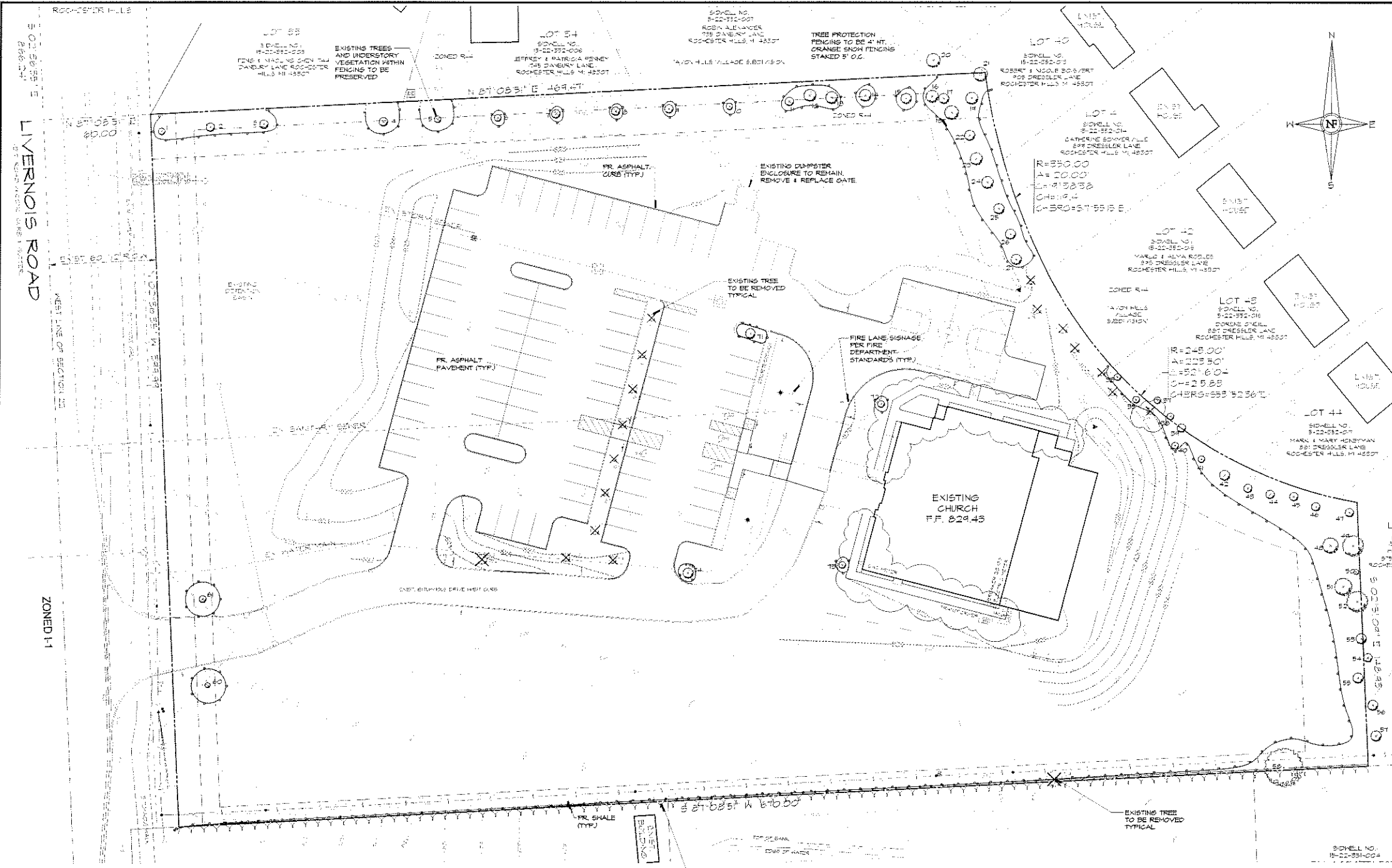
**NOTE:**  
NO DIGGING, GRADING (CUT OR FILL), TRENCHING OR ANY OTHER CONSTRUCTION OPERATION IS PERMITTED WITHIN THE DRIFLINE OF ANY TREE DESIGNATED FOR PRESERVATION.

**NOTE:**  
ALL ASH TREES ARE TO BE DISPOSED OF PER THE DIRECTIONS OF THE CITY OF ROCHESTER HILLS FORESTRY DIVISION.

**NOTE:**  
SEE SHEET L2 FOR TREE REPLACEMENT.

### PRESERVATION LEGEND

- X: TREE TO BE REMOVED
- TS: TREE TO REMAIN

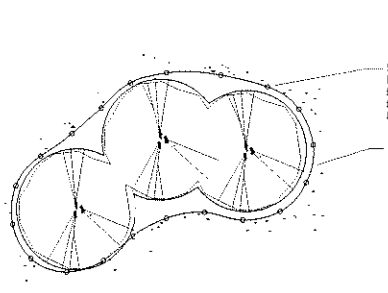


### CITY TREE PROTECTION NOTES

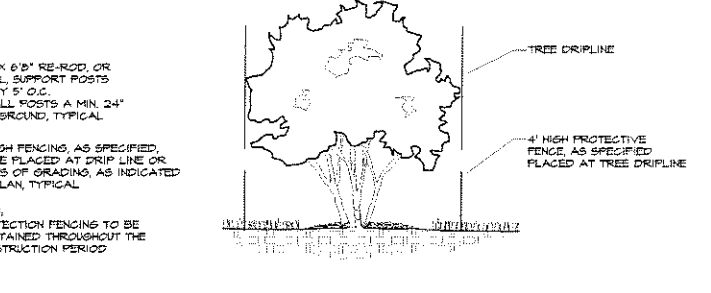
1. THE TREE PROTECTION FENCING (TPF) SHALL BE ERECTED PER THE PLANS APPROVED BY THE CITY OF ROCHESTER HILLS PLANNING DEPARTMENT. THE TPF MUST BE IN PLACE AND INSPECTED BY THE CITY LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY EARTHWORK OR CONSTRUCTION OPERATIONS. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 248-656-4660 TO SCHEDULE A TPF INSPECTION. THE TPF SHALL REMAIN IN PLACE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OR UNTIL THE CITY AUTHORIZES THE REMOVAL OR ISSUES A FINAL CERTIFICATE OF OCCUPANCY, WHICHEVER OCCURS FIRST.
2. UPON COMPLETION OF GRADINGS AND THE INSTALLATION OF THE INFRASTRUCTURE A SECOND INSPECTION OF THE TPF AND THE TREES DESIGNATED FOR PRESERVATION IS REQUIRED BY THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY ADDITIONAL CONSTRUCTION. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 248-656-4660 TO SCHEDULE THIS INSPECTION.
3. UPON COMPLETION OF ALL CONSTRUCTION AND PRIOR TO THE REMOVAL OF THE TPF THE CITY LANDSCAPE ARCHITECT MUST INSPECT ALL TREES DESIGNATED TO BE PRESERVED. THE LANDSCAPE MAINTENANCE BOARD WILL NOT BE RELEASED UNTIL THIS INSPECTION IS COMPLETE AND ALL RELATED ISSUES ARE RESOLVED. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 248-656-4660 TO SCHEDULE THIS INSPECTION.
4. A FINAL INSPECTION BY THE CITY LANDSCAPE ARCHITECT IS REQUIRED AT THE END OF THE MAINTENANCE AND MAINTENANCE PERIOD. THE LANDSCAPE MAINTENANCE BOARD WILL NOT BE RELEASED UNTIL THIS INSPECTION IS COMPLETE AND ALL RELATED ISSUES ARE RESOLVED. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 248-656-4660 TO SCHEDULE THIS INSPECTION.
5. THE TREE CONSERVATION ORDINANCE PROHIBITS ANY CONSTRUCTION OR DEVELOPMENT ACTIVITIES WITHIN THE DRIFLINE OF REGULATED TREES NOT APPROVED FOR REMOVAL, INCLUDING BUT NOT LIMITED TO LAND GRADING, TRENCHING, GRADING OR FILLING. NO PERSON SHALL PLACE ANY SOLVENTS, BUILDING MATERIAL, CONSTRUCTION EQUIPMENT, SOIL DEPOSITS, OR HAZARDOUS MATERIALS WITHIN THE DRIFLINE OF TREES DESIGNATED FOR PRESERVATION.
6. PROPOSED GRADES ARE TO MATCH THE EXISTING ELEVATIONS OUTSIDE THE LIMITS OF THE TPF. NO GRADING, EITHER CUT OR FILL, IS PERMITTED WITHIN THE DRIFLINE OF ANY TREE DESIGNATED FOR PRESERVATION.
7. DURING THE CONSTRUCTION PROCESS NO PERSON SHALL ATTACH ANY DEVICE OR WIRE/CABLE COORDS TO AN EXISTING TREE DESIGNATED FOR PRESERVATION.
8. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR WITHIN THE TPF.
9. SHALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIFLINE OF ANY TREE DESIGNATED FOR PRESERVATION. SHALES SHALL BE CONSTRUCTED SO AS NOT TO DIRECT ANY ADDITIONAL FLOW INTO THE DRIFLINE OF A TREE DESIGNATED FOR PRESERVATION.
10. IF TREE PROTECTION CANNOT BE MAINTAINED FOR A TREE THROUGHOUT ENTIRE PERIOD REQUIRED, THE REPLACEMENT MUST BE PROVIDED ON AN INCH FOR INCH BASIS PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
11. REGULATED TREES LOCATED OFF-SITE ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION OPERATIONS MUST BE PROTECTED AS DESCRIBED HEREIN.
12. THE TPF SHALL CONSIST OF A FOOT HIGH ORANGE SHOWN FENCING TO BE INSTALLED AROUND THE DRIFLINE OF ALL DESIGNATED TREES TO BE SAVED. THIS FENCING SHALL BE SUPPORTED BY 6 FOOT METAL T-BAR POSTS 3 FEET ON CENTER AND DRIVEN A MIN. OF 24" INTO GROUND. THE TPF SHALL REMAIN UPRIGHT AND SECURELY IN PLACE FOR THE REQUIRED TIME AS SPECIFIED ABOVE.

### GENERAL TREE PROTECTION NOTES

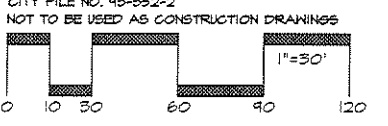
1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE TRENCHING IS COMPLETE.
2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
3. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO PLACING SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINE.
4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.
5. DURING CONSTRUCTION NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SOBEVEREED TO REMAIN.
6. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING.
7. SHALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIFLINE OF PROTECTED TREES.
8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.
9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RUSTICALLY STAKED FENCING.
10. THE PARKING OF CARS AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIFLINE OF PROTECTED TREES.
11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TRUNKS TO REMAIN.
13. THE GRADING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR INITIALLY WITH A HYDRO-AXE.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES. FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN, TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND PLANNED FOR REMOVAL BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
15. TREE PROTECTION FENCING SHALL CONSIST OF STAKED 4" HT. ORANGE PLASTIC SHOWN FENCE OR SIMILAR STURDY MATERIAL, ACCEPTABLE TO THE CITY.



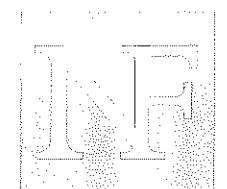
TREE PROTECTION DETAIL-PLAN



TREE PROTECTION DETAIL-SECTION

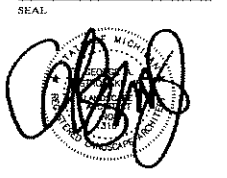


C:\Users\GOLDGRABER\Documents\930852-2.dwg, 07/13/05, 1:28:45 PM, ggoldgraber



# NOWAK & FRAUS

Consulting Engineers  
Land Surveyors  
Land Planners  
1310 N. Stephenson Highway  
Royal Oak, MI 48067-1508  
Tel: (248) 399-0886  
Fax: (248) 399-0805



PROJECT  
Building Addition

CLIENT  
Han-Bit Korean Christian  
Reformed Church  
1849 South Livernois Rd.  
Rochester Hills, MI 48307  
CONTACT:  
Rev. Young Ju Oh  
Tel: (248) 608-9888

PROJECT LOCATION  
Part of the Southwest 1/4  
of Section 22  
T3N-R11E,  
City of Rochester Hills,  
Oakland Co., Michigan

SHEET  
Landscape Plan



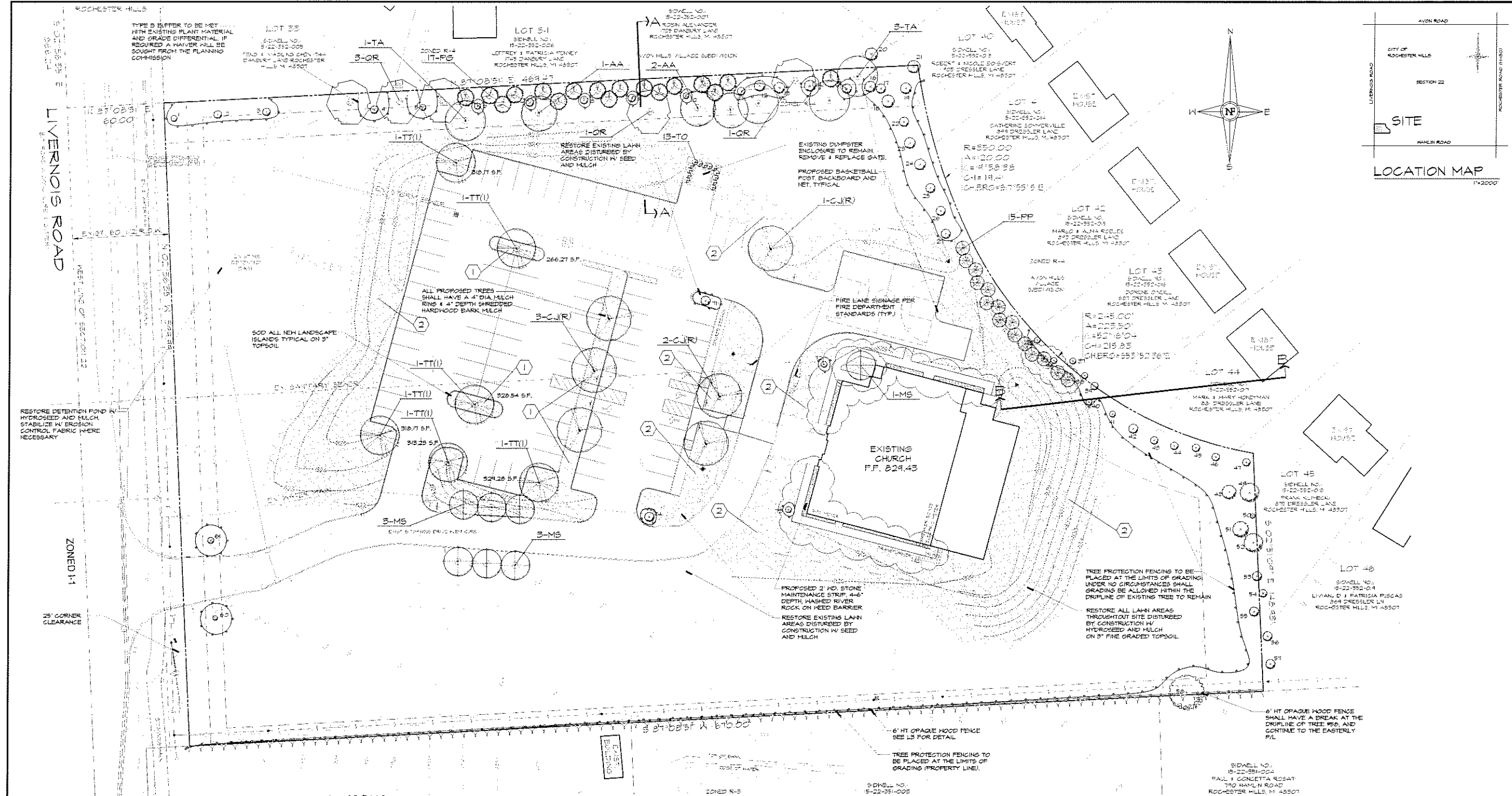
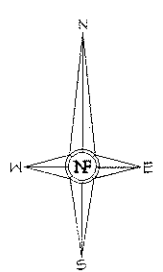
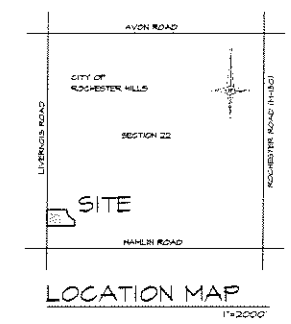
DATE: REVISION:  
CHANGES REVISION PER CITY REVIEW  
CHANGES REVISION PER CITY REVIEW  
CHANGES REVISION PER CLIENT  
CHANGES REVISION PER CITY REVIEW

NOTES:  
PRIOR TO THE ISSUANCE OF A LAND IMPROVEMENT PERMIT, ALL TREE PROTECTION FENCINGS MUST BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S LANDSCAPE ARCHITECT.

DESIGNED BY:  
G. Ostrowski  
APPROVED BY:  
G. Ostrowski

DATE:  
07-13-05  
SCALE:  
1" = 30'

N/F JOB NO.  
D901  
SHEET NO.  
L2



**LANDSCAPE REQUIREMENTS**  
EXISTING SITE ZONING: R-3, ONE FAMILY RESIDENTIAL DISTRICT  
EXISTING SITE AREA: 213,043 S.F. OR 5.31 ACRES (GROSS)

**BUFFER REQUIREMENT**  
TYPE B' BUFFER IS REQUIRED ADJACENT NORTH, EAST, AND SOUTH PROPERTY  
MINIMUM 25' WIDTH 6' HT OPAQUE SCREENWALL OR FENCE AND PLANTINGS TO MEET THE REQUIRED IVO

EXISTING AND PROPOSED SUPPLEMENTAL TREES AND ELEVATION DIFFERENTIAL SHALL BE USED TO SATISFY BUFFER REQUIREMENTS ALONG N. AND E. P/L ALONG S. P/L A 6' HT FENCE SHALL BE USED TO FULFILL BUFFER REQUIREMENTS A WAIVER WILL BE SOUGHT FOR 6' OPAQUE WALL OR FENCE ALONG NORTH BUFFER AND EAST BUFFER, AND A WAIVER FOR THE IVO PLANTINGS ALONG THE SOUTH P/L DUE TO EXISTING SETBACK OR PARKING AND BUILDING AND THE PRESENCE OF OVERHEAD UTILITY LINES

**PARKING LOT LANDSCAPE REQUIREMENTS**  
**AREA REQUIRED:**  
150 S.F. OF LANDSCAPE AREA FOR EACH 10 SPACES  
84 PKG SPACES/10 = 8.4 OR 9  
9 X 150 S.F. = 1,350 S.F. LANDSCAPE AREA REQUIRED  
AREA PROVIDED: 1,545 12 S.F.

**REQUIRED PARKING LOT TREES:**  
1 MEDIUM DECIDUOUS TREE PER 300 S.F. OF REQUIRED AREA  
OR 1 TREE PER ISLAND WHICHEVER IS GREATER.  
1,350 S.F. / 300 S.F. = 4.5 OR 5 TREES  
6 PARKING ISLANDS PROVIDED EQUALS 6 TREES REQUIRED

**TREE PRESERVATION SUMMARY**

TOTAL TREES SURVEYED:	75
MINUS DEAD TREES:	0
MINUS ASH TREES:	-4
MINUS TREES OFF-SITE:	-6
TOTAL REGULATED TREES ON-SITE:	60
TOTAL REGULATED TREES SAVED:	51 (85%)
TOTAL REPLACEMENT CREDITS REQUIRED:	9
TOTAL REPLACEMENT CREDITS PROVIDED:	9

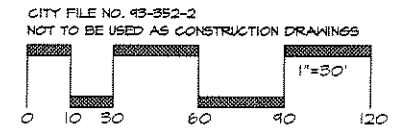
**GROUND COVER KEY**  
① TYPICAL SOD LAWN AREAS, SOHN ON 3" TOPSOIL MIN.  
② TYPICAL SEED LAWN AREAS, SOHN ON 3" TOPSOIL MIN.

**GENERAL GRADING NOTES:**  
1. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS, TYPICAL.  
2. PROVIDE POSITIVE DRAINAGE ON ALL WALKS.  
3. CONTRACTOR TO CONTACT CIVIL ENGINEER OR LANDSCAPE ARCHITECT WITH ANY DISCREPANCIES BETWEEN GRADES SHOWN AND ACTUAL GRADES ON-SITE. DO NOT MAKE ADJUSTMENTS WITHOUT THE APPROVAL OF THE CIVIL ENGINEER OR LANDSCAPE ARCHITECT.  
4. SEE CIVIL ENGINEERING DRAWINGS FOR PROPOSED GRADES FOR ALL ROADS, CURBS, BUILDINGS, UTILITIES, ETC.

**NOTES:**  
SEE SHEET L1 FOR TREE PROTECTION DETAILS AND TRANSPLANT DETAIL  
SEE SHEET L3 FOR MASTER TREE LIST, INCLUDING SIZE, QUANTITY AND TYPE

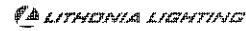
**CITY OF ROCHESTER HILLS NOTES**  
1. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT MUST INSPECT ALL LANDSCAPE PLANTINGS INCLUDING BUT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, BUFFER PLANTINGS AND PARKING LOT ISLANDS AND THE FORESTRY DIVISION MUST INSPECT ALL RIGHT-OF-WAYS 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.  
2. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A PUBLIC ROADWAY. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 8' 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, SHADER AND ELECTRICAL TREES MUST BE PLANTED AT LEAST 8' FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10' FROM THE NEAREST UNDERGROUND UTILITY.  
3. NO TREE OR SHRUB MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-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 5' FROM THEIR POINT OF INTERSECTION.  
4. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB IN THE PUBLIC RIGHT-OF-WAY.  
5. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPES SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.  
6. THE DEVELOPER AND/OR THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT SHALL HAVE THE RIGHT AT ANY STAGE OF THE INSTALLATION TO RECTIFY ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.  
7. REPLACEMENT TREES MAY NOT BE PLANTED WITHIN THE DRIP LINE OF EXISTING TREES.

**NOTES:**  
PRIOR TO THE ISSUANCE OF A LAND IMPROVEMENT PERMIT, ALL TREE PROTECTION FENCINGS MUST BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S LANDSCAPE ARCHITECT.  
PRIOR TO THE ISSUANCE OF A LAND IMPROVEMENT PERMIT FOR THIS DEVELOPMENT, A PERFORMANCE BOND MUST BE POSTED.



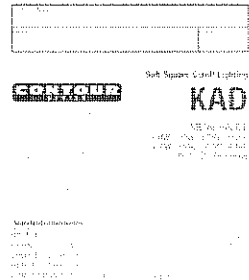






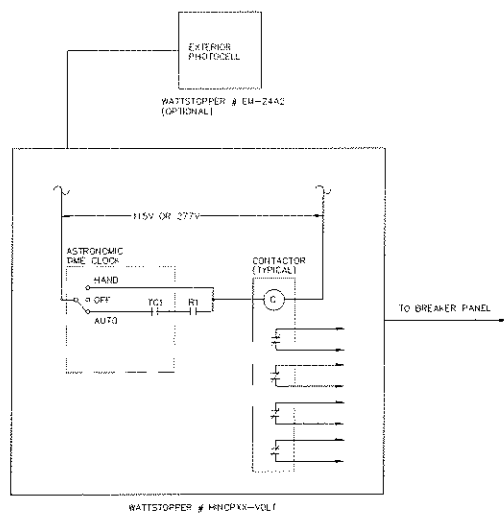
**FEATURES & SPECIFICATIONS**

20' mounting height  
 4" diameter  
 Light Fixture to be Shoebox Area Type Luminaires  
 Round Tapered Fiberglass Pole  
 Finish Grade  
 Pole to be determined by client either direct burial or set on concrete base



**Parking Lot Light Pole**

Not to Scale



NOTE:  
 2X = SPECIFY QUANTITY OF CONTACTOR POLES REQUIRED (MULTIPLES OF 4)  
 VOLT = SPECIFY 115V OR 277V  
 CONTACTOR TO SPECIFY NUMBER OF CIRCUITS REQUIRED

**EXTERIOR LIGHTING CONTROL PANEL DIAGRAM**

NO SCALE

**NOTES**

1. SEE MH COLUMN OF LUMINAIRE LOCATIONS FOR MOUNTING HEIGHTS.
  2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTORS.
  3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT GRADE SURFACE.
- THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURERS LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
- THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE COMPLIANCE.

**LUMINAIRE LOCATIONS**

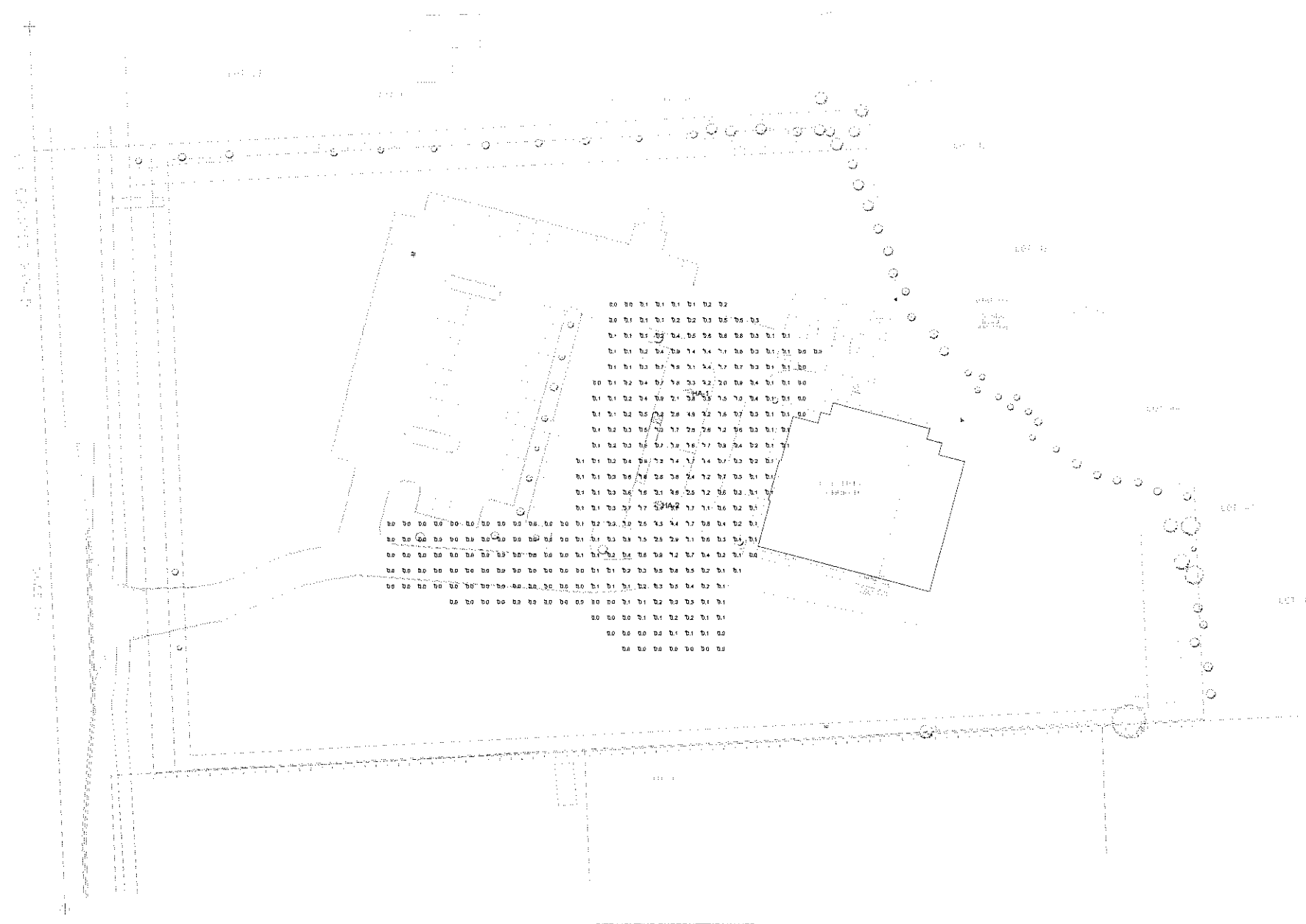
No.	Label	Location		MH	Orientation	Tilt
		X	Y			
1	HA	212.1	212.8	20.0	100.0	0.0
2	HA	185.8	140.9	20.0	100.0	0.0

**LUMINAIRE SCHEDULE**

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	HA	2	LITHONIA #KAD 230W RG (SINGLE - 20' MTD HTG)	DIE-CAST CUTOFF LUMINAIRE	ONE 250-WATT CLEAR ST-39 METAL HALIDE	B2042001IES	19500	0.72	297

**STATISTICS**

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SITE LIGHTING VALUES AT GRADE	+	0.5fc	4.8 fc	0.0 fc	N/A	N/A



**SITE LIGHTING PHOTOMETRIC VALUES**  
 Scale 1" = 4'

09/13/06 REVISED PER CITY REVIEW

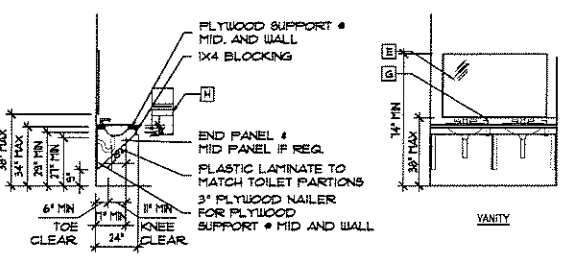
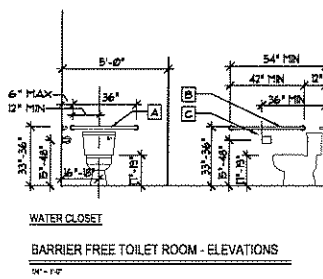
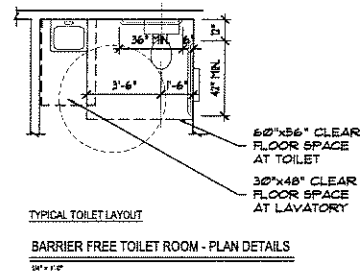
**HAN-BIT KOREAN CHRISTIAN REFORMED CHURCH**

ROCHESTER HILLS, MI  
 SITE LIGHTING PHOTOMETRIC VALUES  
 GASSER BUSH ASSOCIATES

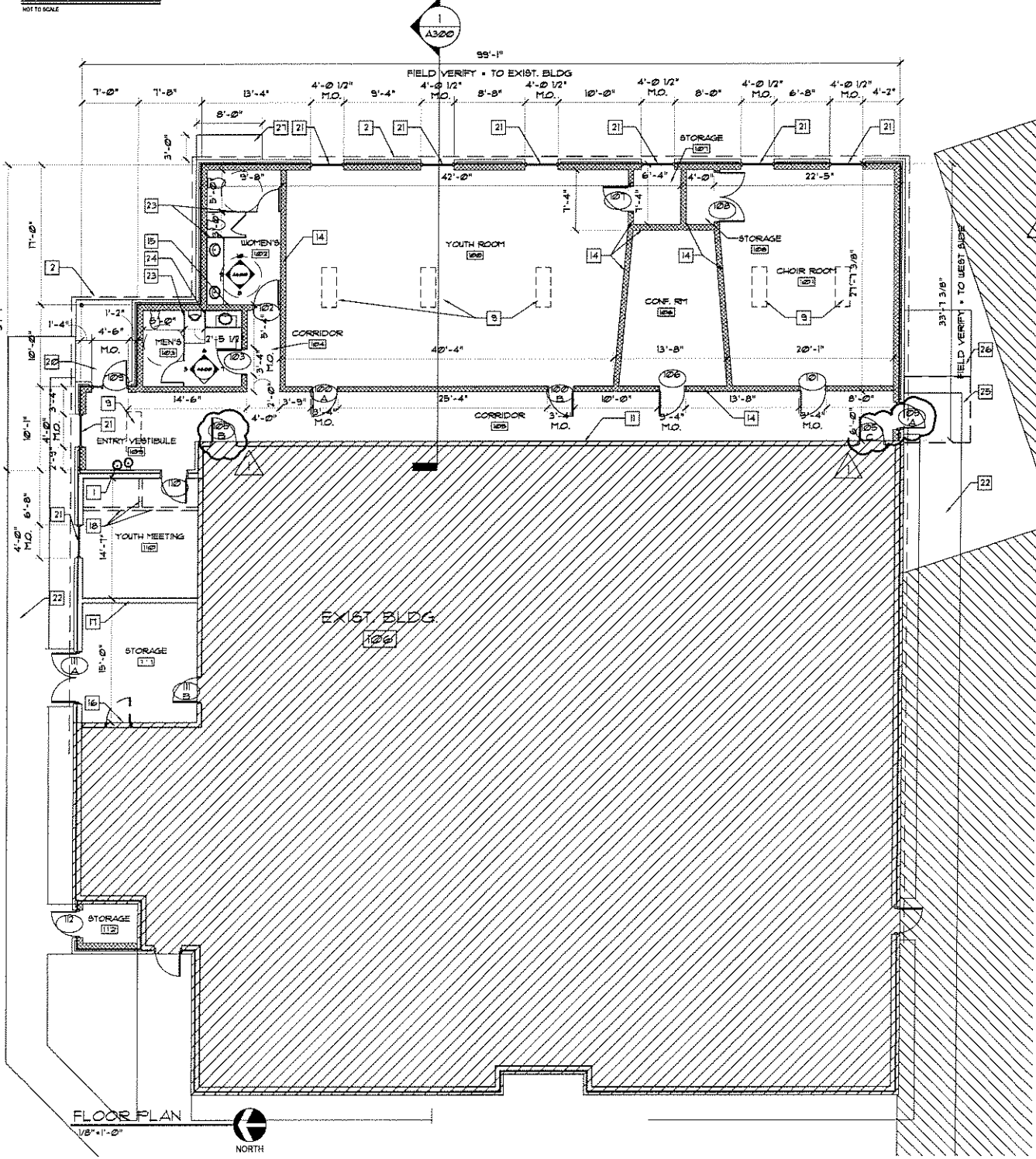
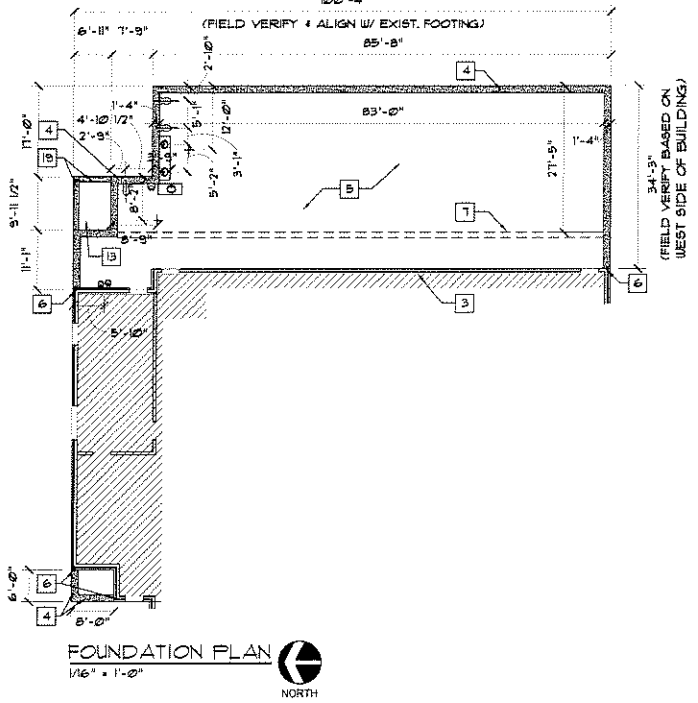
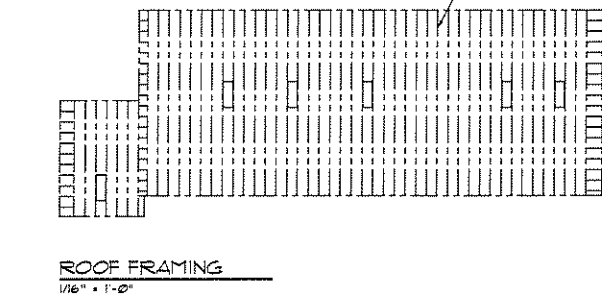
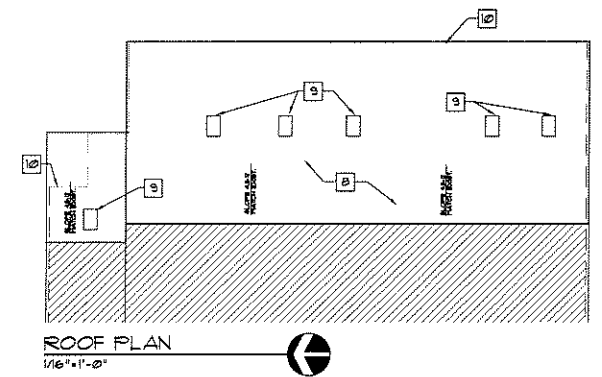
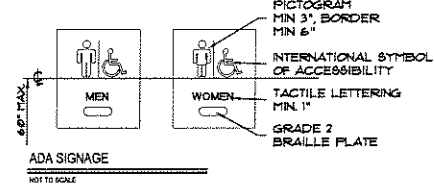
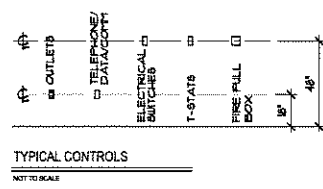
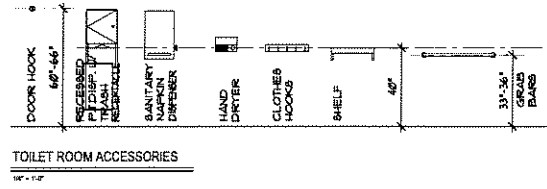
Designer  
 MM/JB  
 Date  
 JUNE 27, 2006  
 Scale  
 AS NOTED  
 Drawing No.  
 05564V2



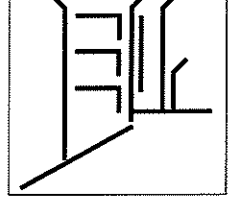




TOILET ROOM ACCESSORY SCHEDULE						
MARK	DESCRIPTION	MANUF.	MANUF. #	STYLE	COLOR	NOTES
A	GRAB BAR	BOBRICK	B-5806X36"	-	SATIN	-
B	GRAB BAR	BOBRICK	B-5806X42"	-	SATIN	-
C	TOILET TISSUE DISP.	BOBRICK	B-4188	CONTURA	ST. STL.	MULTI-ROLL, SURFACE MOUNTED
D	MIRROR	BOBRICK	B-292 2436	-	ST. STL.	24"X36" W/ SHELF
E	MIRROR	BOBRICK	B-292 6036	-	ST. STL.	60"X36"
F	SOAP DISPENSER	BOBRICK	B-4112	CONTURA	ST. STL.	SURFACE MOUNTED
G	SOAP DISPENSER	BOBRICK	B-822	CONTURA	ST. STL.	RECESSED IN VANITY
H	P.T. DISP. & RECEPT.	BOBRICK	B-4354S	CONTURA	ST. STL.	SURFACE MOUNTED
J	SAN. NAPKIN DISP.	BOBRICK	B-2710	CONTURA	ST. STL.	SURFACE MOUNTED
K	HOOK	BOBRICK	B-2116	-	SATIN	LOCATE @ DR. 1/2" EA. STALL DR.
L	TOILET PARTITIONS	BOBRICK	1541	CLASSIC	PEBBLE	FLOOR-ANCHORED
M	URINAL SCREENS	BOBRICK	1545	CLASSIC	PEBBLE	WALL-HUNG



- KEY NOTES**
- NEW DRINKING FOUNTAINS. HANS CORPORATION MODEL 1011
  - ROOF OVERHANG ABOVE
  - EXISTING TRENCH FOOTING
  - NEW 16" TRENCH FTG. # MIN. 42" DEEP. SEE SHEET A300 FOR DETAILS
  - NEW 4" CONC. SLAB - SEE SECTION 1/A300
  - FIN NEW FOUNDATION TO EXISTING FND. W/ (2) #5 RE-BAR @ 16" O.C. HORIZ. DRILLED & EPOXIED INTO EXISTING FND. 6" MIN. (TYP.)
  - 8" THICKENED SLAB
  - NEW ASPHALT SHINGLES (TO MATCH EXIST.) OVER 30 LB FELT & 5/8" PLYUD DECKING. PROVIDE MIN 24" ICE & WATER SHIELD @ EAVES
  - NEW VELUX FS 108 SKYLIGHT
  - LINE OF WALL BELOW
  - REMOVE EXIST. BRICK & SHEATHING. INSTALL NEW 5/8" GYP.
  - 16" TJs (SERIES 500) @ 24" O.C.
  - 4" SUPPORTED SLAB
  - EXTEND WALL TO UNDERSIDE OF DECKING
  - EXTEND WALL TO 6" ABOVE LAY-IN CEILING
  - REMOVE EXISTING DOOR & INFILL OPENING
  - NEW 6" HTL STUD WALL W/ R-15 BATT INSULATION & 5/8" GYP. BD. ON BOTH SIDES
  - EXISTING WALLS TO BE REMOVED
  - 12" X MIN. 42" DEEP TRENCH FTG FOR SUPPORT SLAB W/ (2) #5 MIN. 3" FROM BOT. & SIDE
  - NEW 4" CONC. SUPPORTED SLAB
  - NEW 4'-0" X 5'-0" KALNEER TRIFAB 400 STOREFRONT WINDOW W/ 48" X 18" KALNEER GLASSVENT WINDOW GLASS TO BE INSULATED
  - NEW 4" CONC. WALK W/ 6x6x14 WUF OVER 4" COMP. SAND
  - BOBRICK 1541 CLASSIC SERIES TOILET PARTITIONS - COLOR: PEBBLE
  - BOBRICK 1545 CLASSIC SERIES URINAL SCREENS - COLOR: PEBBLE
  - COND. UNITS TO BE RELOCATED & CONC PAD REMOVED
  - RELOCATED CONC. PAD & COND. UNITS
  - NEW 3'-0" X 8'-0" X 4" CONC. PAD FOR NEW COND. UNITS



architectural studios of  
**GERALD J. YURK ASSOCIATES**  
Incorporated  
ARCHITECTURE & INTERIORS  
101 Main Street, Suite 400  
Rochester, Michigan 48307  
Phone 248.656.1881  
Fax 248.656.7625  
webmaster@geraldjyurk.com

The design concepts and creative forms or systems, graphicability or literary expression on this drawing have been generated by the architect for exclusive application to this project. They are the sole property of the architect and are not to be used, duplicated, or reproduced in any form without the written permission of the architect.  
© 2004 Architectural Studios of Gerald J. Yurk Associates, Inc.

**SHEET TITLE**  
FLOOR PLAN,  
FOUNDATION PLAN,  
ROOF FRAMING,  
& ROOF PLAN

**DATE** 09.07.04  
**ISSUED FOR:** BIDS & PERMITS  
09.18.06 BULLETIN #1

**PROPOSED ADDITION FOR:**  
**HAN-BIT CHURCH ADDITION**  
1849 S. LIVERNOIS RD  
ROCHESTER HILLS, MI 48307

**DRAWN BY:** TA  
**CHECKED BY:** JPS  
**COMMISSION:** 06-009

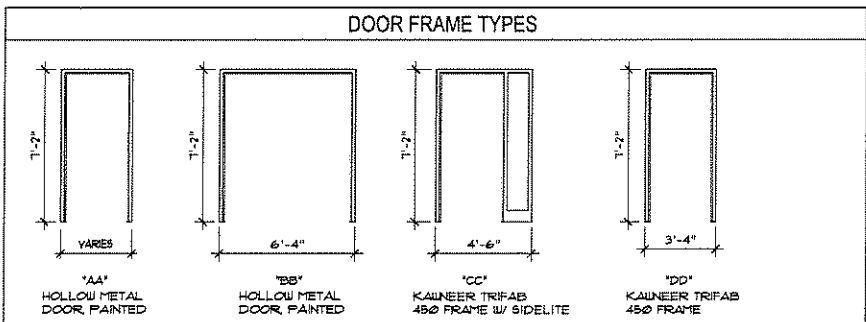
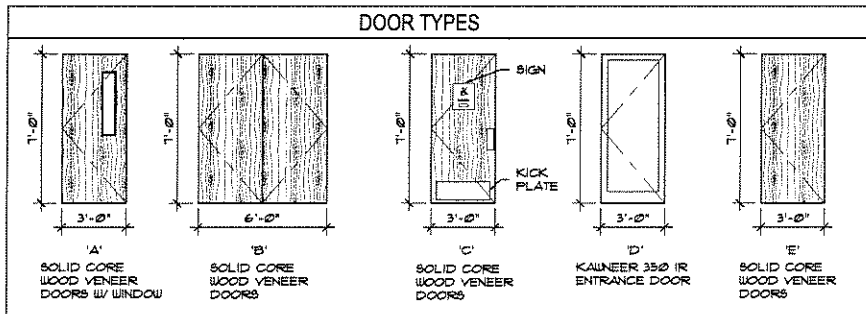
**SHEET NUMBER:** A100



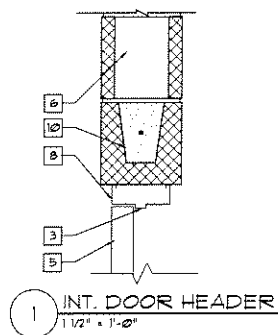
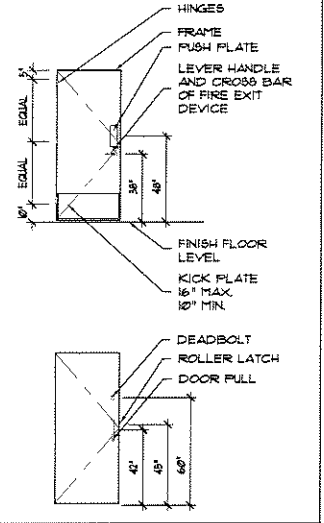




DOOR SCHEDULE											
NO.	DOOR				FRAME				LINTEL	HARDWARE	NOTES
	SIZE	THK	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB			
1	3'-0" x 7'-0"	1/2"	A	SC WD	AA	HM.	1/A600	2/A600	-	2	
2	3'-0" x 7'-0"	1/2"	A	SC WD	AA	HM.	1/A600	2/A600	-	2	
3	3'-0" x 7'-0"	1/2"	A	SC WD	AA	HM.	1/A600	2/A600	-	2	
4	3'-0" x 7'-0"	1/2"	C	SC WD	AA	HM.	1/A600	2/A600	-	10	
5	3'-0" x 7'-0"	1/2"	C	SC WD	AA	HM.	1/A600	2/A600	-	10	
6	3'-0" x 7'-0"	1/2"	D	ALUM. GLASS	DD	ALUM.	3/A600	4/A600	-	9	
7	3'-0" x 7'-0"	1/2"	E	SC WD	AA	HM.	1/A600	2/A600	30" MIN	1	
8	3'-0" x 7'-0"	1/2"	E	SC WD	AA	HM.	1/A600	2/A600	30" MIN	1	
9	3'-0" x 7'-0"	1/2"	A	SC WD	AA	HM.	1/A600	2/A600	-	2	
10	3'-0" x 7'-0"	1/2"	E	SC WD	AA	HM.	1/A600	2/A600	-	4	
11	2'-0" x 7'-0"	1/2"	B	SC WD	BB	HM.	1/A600	2/A600	-	4	
12	3'-0" x 7'-0"	1/2"	D	ALUM. GLASS	CC	ALUM.	3/A600	4/A600	-	9	
13	3'-0" x 7'-0"	1/2"	A	SC WD	AA	HM.	1/A600	2/A600	-	2	
14	2'-0" x 7'-0"	1/2"	-	-	-	-	-	-	-	3	EXIST.
15	3'-0" x 7'-0"	1/2"	E	SC WD	AA	HM.	1/A600	2/A600	-	3	
16	3'-0" x 7'-0"	1/2"	E	SC WD	AA	HM.	3/A600	4/A600	-	3	



HARDWARE SCHEDULE			
NO.	DESCRIPTION	NO.	DESCRIPTION
1	HINGES 4 1/2" x 4 1/2" - FULL MORTISE PASSAGE SET / PANIC KICKPLATE WALL STOP	9	CONTINUOUS HINGE CLOSER LOCK SET PUSH/PULL PANIC
2	HINGES 4 1/2" x 4 1/2" - FULL MORTISE CLOSER LOCK SET	10	HINGES 4 1/2" x 4 1/2" - FULL MORTISE CLOSER PUSH/PULL SET KICKPLATE WALL STOP
3	HINGES 4 1/2" x 4 1/2" - FULL MORTISE LOCK SET		
4	HINGES 4 1/2" x 4 1/2" - FULL MORTISE PASSAGE SET WALL STOP		
5	HINGES 4 1/2" x 4 1/2" - FULL MORTISE LOCK SET WALL STOP		
6	HINGES 4 1/2" x 4 1/2" - FULL MORTISE PASSAGE SET		
7	HINGES 4 1/2" x 4 1/2" - FULL MORTISE CLOSER LOCK SET - CONTINUOUS KICKPLATE		
8	HINGES 4 1/2" x 4 1/2" - FULL MORTISE PRIVACY SET WALL STOP KICKPLATE		
			SUPPLY CUT SHEETS & FINISH HARDWARE SPEC TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING/ INSTALLATION
			ALL HARDWARE TO BE YALE "PACIFIC BEACH", BRUSHED STAINLESS STEEL FINISH



ROOM FINISH SCHEDULE												
ROOM NO.	ROOM NAME	FLOOR				WALLS				CEILING	EQUIPMENT	NOTES
		FINISH	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT			
100	YOUTH ROOM	F2	B1	W1	W1	W1	W1	C1	CATH.	-	-	
101	CHOIR ROOM	F2	B1	W1	W1	W1	W1	C1	CATH.	-	-	
102	WOMEN'S	F1	B2	W1/W2/W3	W1/W2/W3	W1/W2/W3	W1/W2/W3	C2	8'-0"	-	-	
103	MEN'S	F1	B2	W1/W2/W3	W1/W2/W3	W1/W2/W3	W1/W2/W3	C1	8'-0"	-	-	
104	CORRIDOR	F4	B1	W1	W1	W1	W3	C2	10'-0"	-	-	
105	CORRIDOR	F4	B1	W1	W1	W1	W3	C2	10'-0"	-	-	
106	CONFERENCE ROOM	F2	B1	W1	W1	W1	W1	C1	CATH.	-	-	
107	STORAGE	F2	B1	W1	W1	W1	W1	C2	8'-0"	-	-	
108	STORAGE	F2	B1	W1	W1	W1	W1	C2	8'-0"	-	-	
109	VESTIBULE	F4	B1	W1	W1	W1	W1	C1	8'-0"	-	-	
110	YOUTH MEETING	F2	B1	W3	W3	W3	W3	EXIST.	EXIST.	-	-	
111	STORAGE	F3	B1	W3	W3	W3	W3	-	EXIST.	-	-	
112	STORAGE	F3	B1	W1	W1	W1	W1	C1	8'-0"	-	-	

**ROOM FINISH LEGEND**

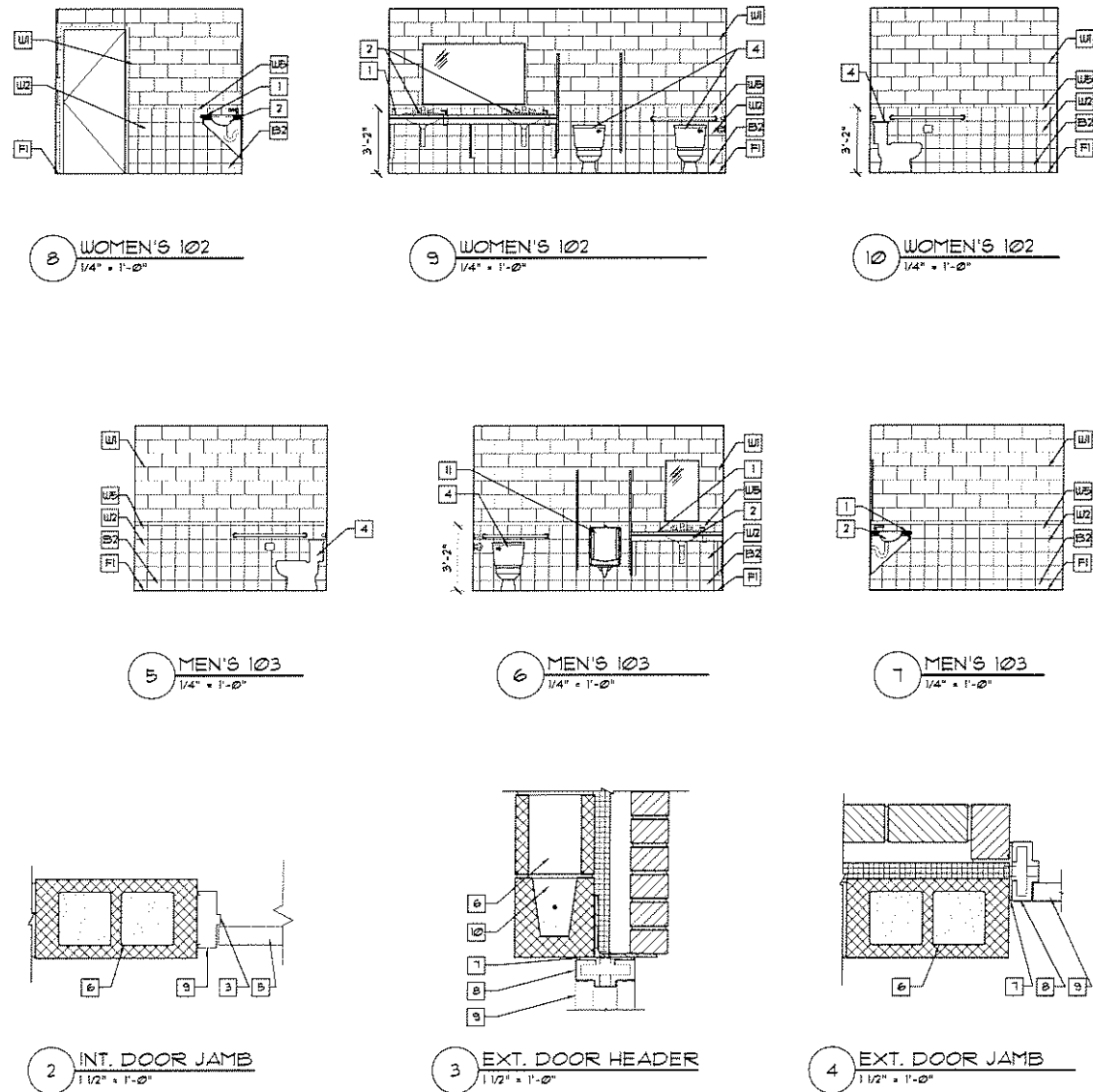
**FLOOR**  
 F1 - TILE - VIRGINIA TILE CO. "AMERICAN OLEAN", BONE HAZE UP51 8"x8"  
 F2 - CARPET - BOLIYU "LACROIX" LA133  
 F3 - SEALED CONCRETE  
 F4 - SHEET VINYL - ARMSTRONG "IMPRESSIONS COLLECTION" W/ CUSHIONSTEP, 3311 "UNIVERSAL PORCELAIN"

**BASE**  
 B1 - 4" VINYL BASE  
 B2 - "AMERICAN OLEAN"  
 COVE TILE BASE 536097

**WALLS**  
 W1 - PAINTED BLOCK  
 W2 - WAINSCOT - TILE - VIRGINIA TILE CO. "AMERICAN OLEAN" BONE HAZE UP51 8"x8"  
 W3 - PAINTED GYP. BD.  
 W4 - PAINTED BLOCK W/ MIN. 1" SOUND PANELS. SIZE & LOCATION TO BE SPECIFIED BY MANUF.  
 W5 - AMERICAN OLEAN BULLNOSE TRIM 5-4889, BONE HAZE UP51

**CEILING**  
 C1 - 5/8" GYP. BD., PTD  
 C2 - 2"x2"x1/4" CEILING GRID - USG ECLIPSE CLIMAPLUS FEDESTALS 1 PANELS TRIPLE STEP SCORING W/ CLIMAPLUS PERFORMANCE/DOWN BRAND CENTRICITEE SUSPENSION SYSTEM

\* ALL ROOM FINISHES TO MEET THE 2003 MICHIGAN BUILDING CODE FOR FLAME SPREAD AND SMOKE DEVELOPMENT. CONTRACTOR TO PROVIDE CITY WITH DOCUMENTATION AT COMPLETION OF PROJECT BEFORE FINAL CERTIFICATE OF OCCUPANCY CAN BE ISSUED.



**KEY NOTES**

- GRANITE COUNTER TOP & BACKSPASH
- UNDER COUNTER MOUNTED BASIN - TOTO MODEL L7581
- INTEGRAL DOOR STOP
- FLOOR-MOUNTED TOILET - TOTO MODEL C5T184SF
- 3/4" SOLID CORE WOOD DOOR
- 8x8x16 CMU
- PROVIDE BACKER ROD CAULK BOTH SIDES AS REQ.
- HOLLOW MET. FRAME GALV. PRIMED & PAINTED-BLACK
- KALNEER 350 SERIES SWING DOOR
- 8" PRECAST CONC. LINTEL
- URINAL - TOTO MODEL UT441

Architectural studios of  
**GERALD J. YURK ASSOCIATES**  
 Incorporated  
 ARCHITECTURE & INTERIORS  
 101 Main Street, Suite 430  
 Rochester, Michigan 48307  
 Phone 248.654.1881  
 Fax 248.656.7625  
 webmaster@geraldjyurk.com

SHEET TITLE  
**INTERIOR ELEVATIONS, ROOM FINISH & DOOR SCHEDULES, & DETAILS**

DATE: 09.07.04 ISSUED FOR: BIOS & PERMITS  
 09.18.04 BULLETIN #1

PROPOSED ADDITION FOR:  
**HAN-BIT CHURCH ADDITION**  
 1849 S. LIVERNOIS RD  
 ROCHESTER HILLS, MI 48307

DRAWN BY: TA  
 CHECKED BY: JPS  
 COMMISSION: 06-009

SHEET NUMBER: **A600**

