# Camille Allen Child Care Center at New Grace Apostolic, 2898 Packard Road Special Exception Use Site Plan

#### **Cover Sheet**

Applicant: Camille Allen, 505 Elder Street, Ypsilanti, MI 48197, cjustine@umich.edu

Owner: Avery Dumas, 4734 Lohr Road, Ann Arbor, MI 48108, elderaverydumas@newgrace.org

#### Required Statement:

- 1. Submitted Application(s) This is a site plan for special exception use. A special exception use petition is also submitted. No other plans, petitions or permits are associated with this application.
- Development Program The proposed child care center will care for 60 children ages 6 weeks to 12 years old in the administrative area of New Grace Apostolic Temple on Weekdays between 7 am and 6 pm.
- 3. Community Analysis
  - a. The proposed child care center will not have an impact on public schools.
  - b. It is a compatible and complimentary with the existing church and the surrounding neighborhood.
  - c. It will have no impact on natural features on or surrounding the site.
  - d. The traffic impact is based on (the size of the child care space in **square feet**), (the **maximum number of children licensed** by the State), and (**the number of caregivers required** by the State for the licensed number of children).

#### **Comparison Chart**

	Existing/Required	Proposed
Zoning District	R1C Single-Family Dwelling	R1C no change
Lot Area	7,200 SF required/301,870 SF existing	301,870 SF no change
Building Area	30,000 SF	30,000 SF no change
Front Setback	25 ft. required/existing	25 ft. no change
Side Setback	5 ft. required/54.5 ft existing	54.5 ft. no change
Rear Setback	30 ft. required/255 ft. existing	255 ft. no change
Building Height	30 ft. required/28 ft. existing	28 ft. no change
Vehicle Parking	98 spaces required/99 existing	99 existing no change
Bicycle Parking	6 spaces required/12 existing	12 spaces existing no change
Childcare Center # Licensed Children	60 Children	60 children

Childcare Center # Required Caregivers	15 Caregivers	15 Caregivers
Childcare Center Area (in SF) within Church Building	10,625 SF	10,625 SF no change

Existing Conditions Plan – See attached

Dimensional Layout Plan – See attached

Transportation Analysis – See above

## LEGAL DESCRIPTION - PARCEL 12-10-103-043

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER OF SECTION 10, T3S, RGE, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN DESCRIBED AS:

COMMENCING AT THE CENTER OF SECTION 10, T3S, R6E, PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN;

THENCE N 89° 58' 30" E, 665.90 FT. ALONG THE E-W 1/4 LINE OF SAID SECTION TO THE SOUTHWEST CORNER OF BRADFORD HOMES SUBDIVISION AS RECORDED IN LIBER 15 OF PLATS, PAGES 13 AND 14, WASHTENAW COUNTY

THENCE N 01° 34' 40" E, 627.27 FT. ALONG THE EAST LINE OF THE W 1/2 OF THE W 1/2 OF THE NE 1/4 OF SAID SECTION 10 TO THE NORTHWEST CORNER OF SAID SUBDIVISION;

THENCE CONTINUING ALONG SAID EAST LINE, N 01° 34' 40" E, 660.00 FT.; THENCE N 89° 58' 30" E, 175.18 FT. ALONG THE NORTH LINE OF THE SOUTH 5 ACRES OF THE WEST 20 RODS OF THE FOLLOWING PARCEL; THE NE 1/4 OF SAID SECTION 10 EXCEPT THE W 1/2 OF THE W 1/2 OF SAID NE 1/4, ALSO EXCEPT THE SOUTH 38 RODS;

THENCE N 01° 34' 40" E, 845.35 FT. TO THE CENTERLINE OF THE PITTSFIELD-ANN ARBOR DRAIN AND THE POINT OF BEGINNING.

THENCE CONTINUING ALONG SAID LINE, N 01° 34' 40" E, 477.80 FT.; THENCE N 89° 49' 50" E, 165.15 FT. ALONG THE SOUTHERLY LINE OF PACKARD ROAD;

THENCE S 01° 33' 50" W, 425.08 FT.;

THENCE S 71° 15' 40" W, 165.48 FT. ALONG THE CENTERLINE OF SAID PITTSFIELD-ANN ARBOR DRAIN TO THE POINT OF BEGINNING.

BEING A PART OF THE NE 1/4 OF SAID SECTION 10, CONTAINING 1.61 ACRES OF LAND MORE OR LESS, AND BEING SUBJECT TO EASEMENTS OF RECORD.

> N 1/4 COR., SEC. 10, T3S, R6E

#### LEGAL DESCRIPTION - PARCEL 12-10-103-044

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER OF SECTION 10, T3S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 10, T3S, R6E,

WASHTENAW COUNTY, MICHIGAN; THENCE N 89° 49' 50" E, 666.77 FT. ALONG THE NORTH LINE OF SAID

THENCE S 01° 34' 40" W, 83.04 FT. TO A POINT ON THE SOUTHERLY RIGHT OF WAY OF PACKARD ROAD, SAID POINT BEING THE POINT OF BEGINNING:

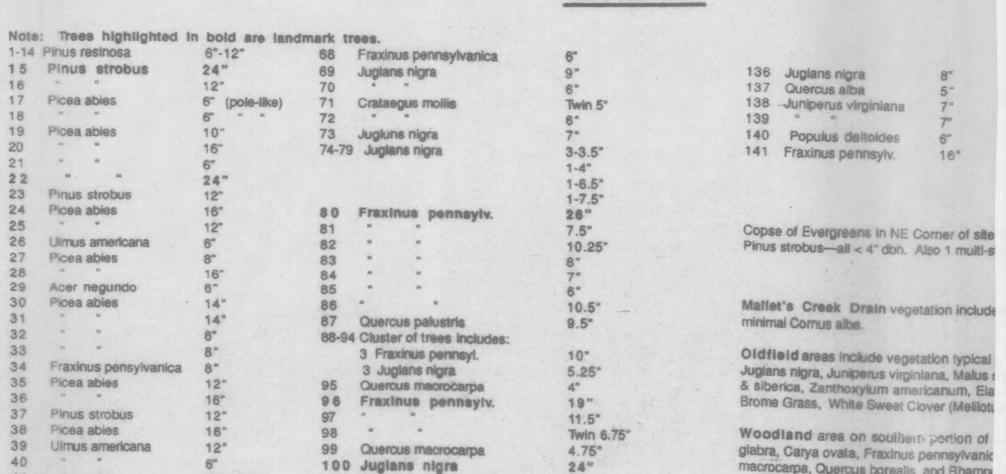
THENCE N 89° 49' 50" E, 175.07 FT. ALONG THE SOUTHERLY RIGHT OF WAY OF PACKARD ROAD;

THENCE S 01° 34' 40" W, 1323.18 FT.; THENCE S 89° 58' 30" W, 175.06 FT.;

THENCE N 01° 34' 40" E., 1322.74 FT. TO THE POINT OF BEGINNING.

GONTAINING 5.32 ACRES OF LAND, MORE OR LESS, SUBJECT TO A 132.00 FT. WIDE EASEMENT FOR DRAIN PURPOSES AND SUBJECT TO EASEMENTS OF RECORD, IF ANY.

## TREE SURVEY



16"

24"

12"-24"

8"-10"

Lg. Muttistem

7.25"

7.5"

101 Quercus macrocarpa

102 Fraxinus pennsylv.

103 Fraxinus pennsylv. 104-111 Cluster of trees includes:

112 Ulmus americana

117 " "

119 Acer negundo

113-115 3 Ulmus americana

116 Rhamnus cathartica

118 Fraxinus americana

8 Populus dettoides

#### **ADMINISTRATIVE** AMENDMENT TO SITE PLAN

I hereby certify that this site plan has been administratively amended by the Building, Fire, Planning, Public Services, and Solid Waste Departments on February 24, 2000, and is in compliance with Chapter 57 of the Ordinance Code of the City of Ann Arbor, Michigan.

> Karen Popek Hart, AICP Planning Director

architects, inc

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ann arbor, mi 48104

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fax: 734,741,0414

0

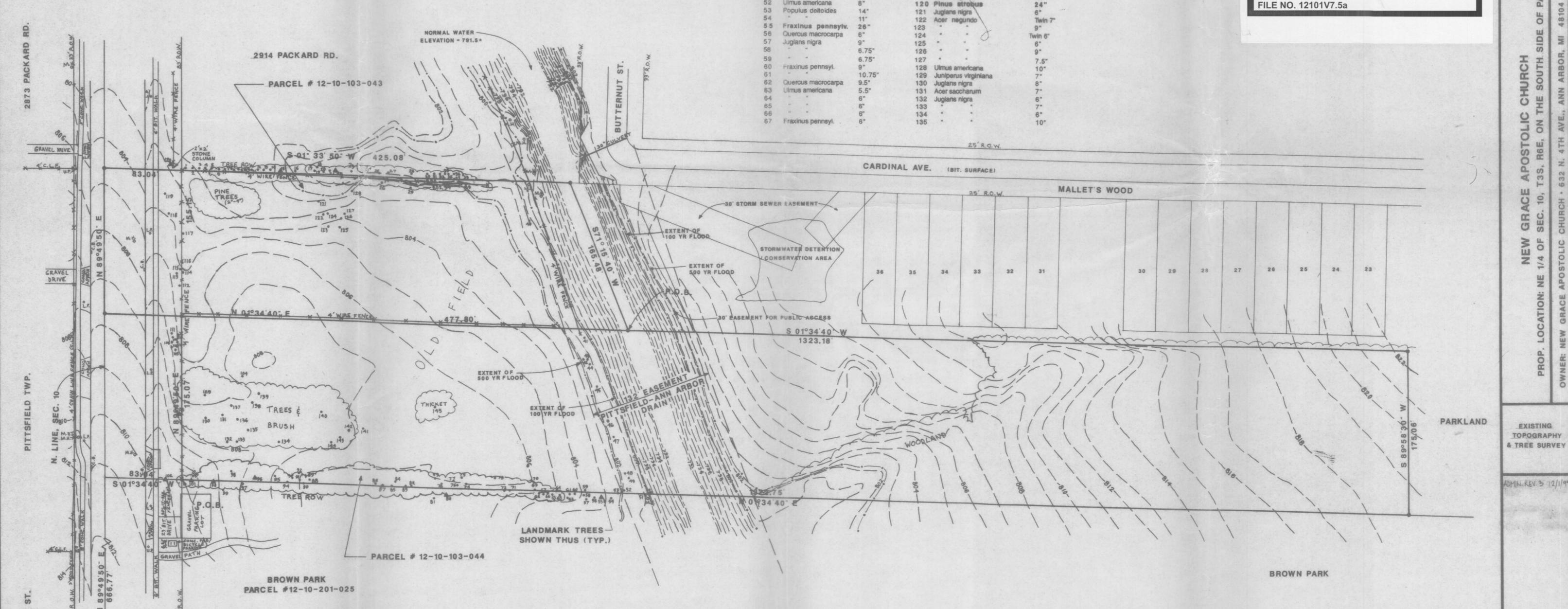
OFFICIAL COPY

NEW GRACE APOSTOLIC CHURCH

2898 PACKARD ROAD

FILE NO. 12101V7.5a

macrocarpa, Quercus borealis, and Rhamni



42 " "

43 " "

45 " "

46 " "

47 " "

49 " "

50 Populus deltoides

52 Ulmus americana

6.5"

6.75"

Twin 5"

SCALE: 1' = 50'

Um.

EXISTING TOPOGRAPHY



LEGEND

0-B

PROP. BITUMINOUS SURFACE

PROP. CONCRETE SURFACE

PROP. PARKING LOT LIGHT

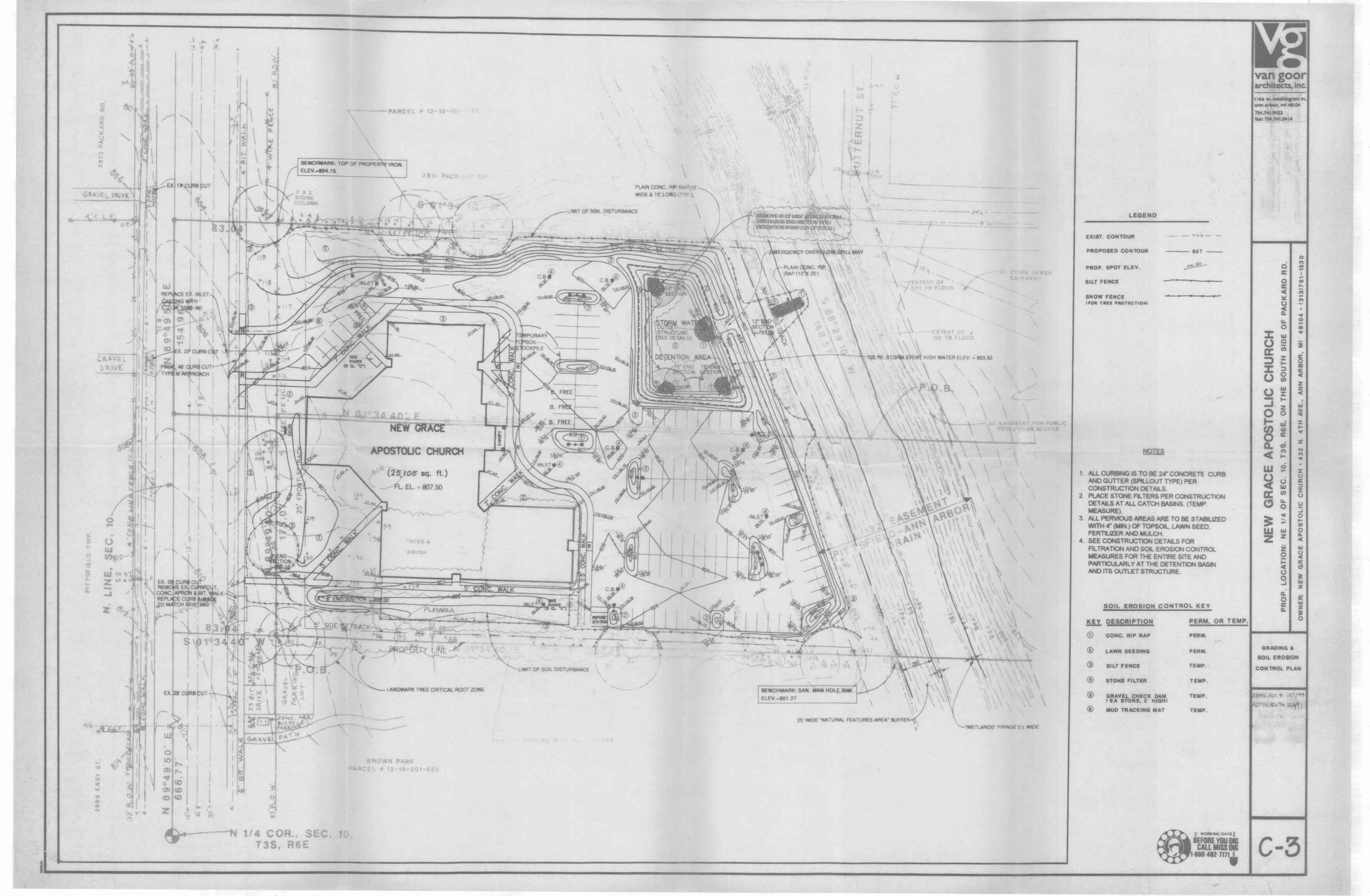
PROPERTY LINE-5' SIDE SETBACK ---STORM WATER 78.00 DETENTION AREA 10 9 9' X 14'=90' (SMALL CARS) B. FREE NEW GRACE APOSTOLIC CHURCH (25,105 sq. ft.) \$ 1079.1 TO REAR PROPERTY LINE 8 9 9 X 18'=72'. 67.33 10 0 9' X 18'=90' PROP. 30' PEDESTRIAN EASEMENT (PUBLIC) 5' SIDE SETBACK 14' 11' 8 @ 9' X 16'=72' 11' 7 @ 9' X 16'=63' PROPERTY LINE

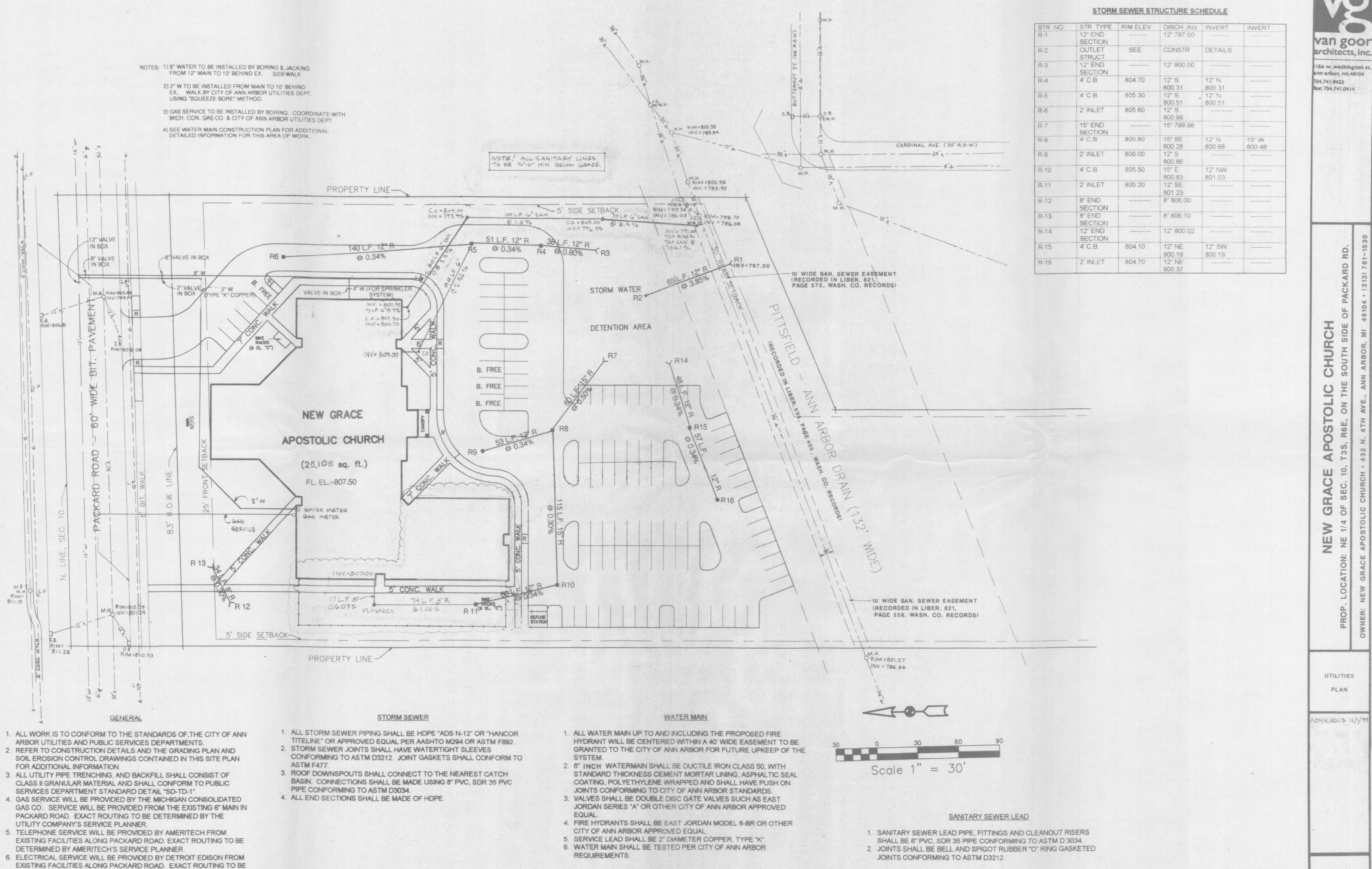
 $\frac{30}{\text{Scale 1"}} = \frac{30}{30}$ 

C-2

DIMENSIONAL

ADMIN, REV. 3 141/99





DETERMINED BY DETROIT EDISON'S SERVICE PLANNER.

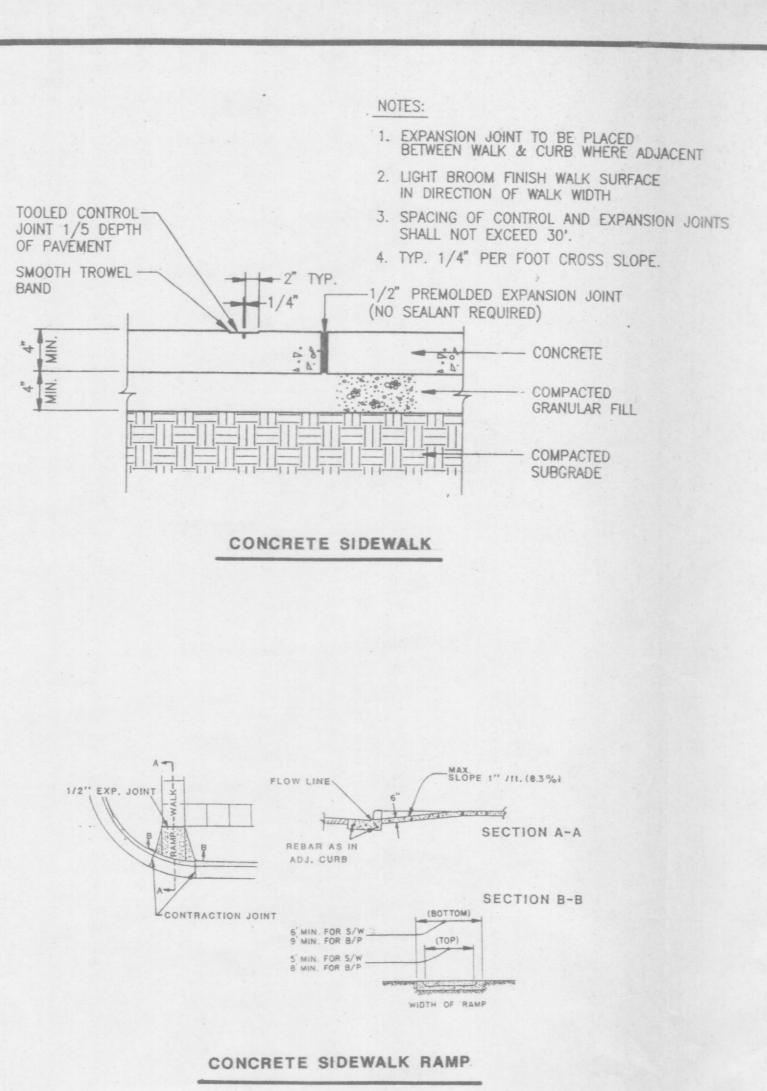
OLIC. GRACE OF SEC. 10 R

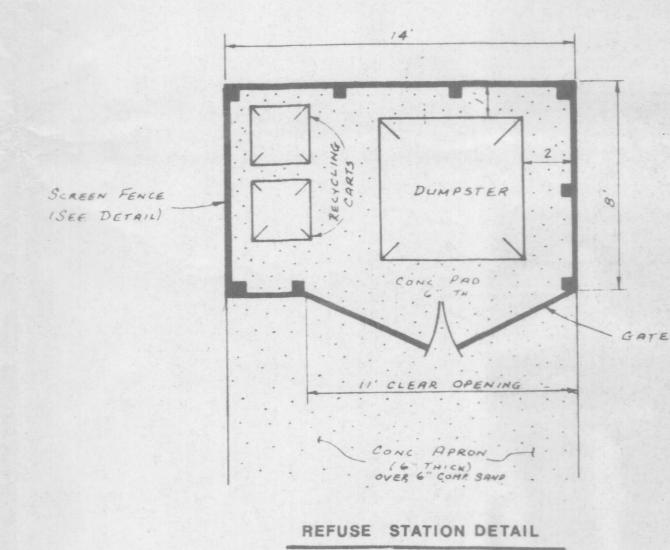
UTILITIES PLAN

DMIN, REV. 3 12/1/

3 WORKING DAYS

1-800-482-7171\_1





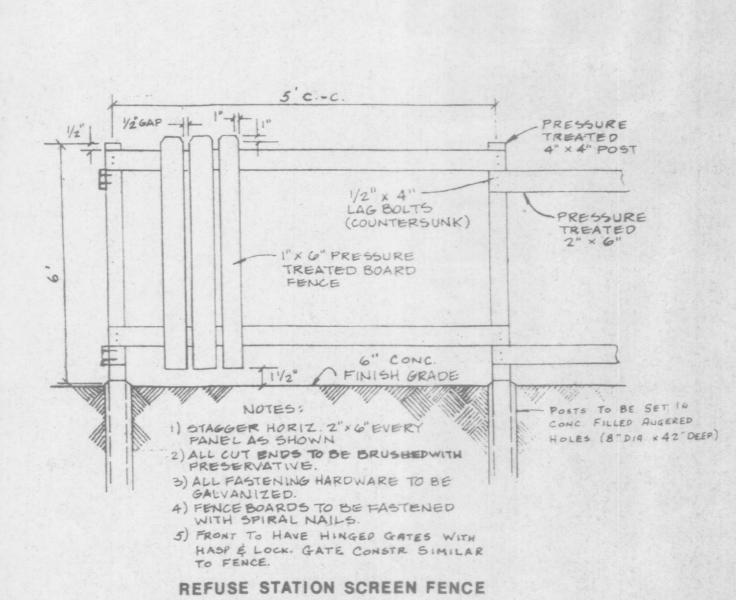
PLAN

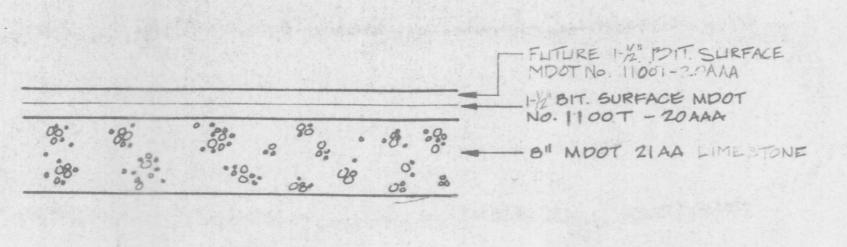
STANDARD 48" HIGH SNOW FENCE

-STANDARD STEEL OR WOODEN FENCE POST

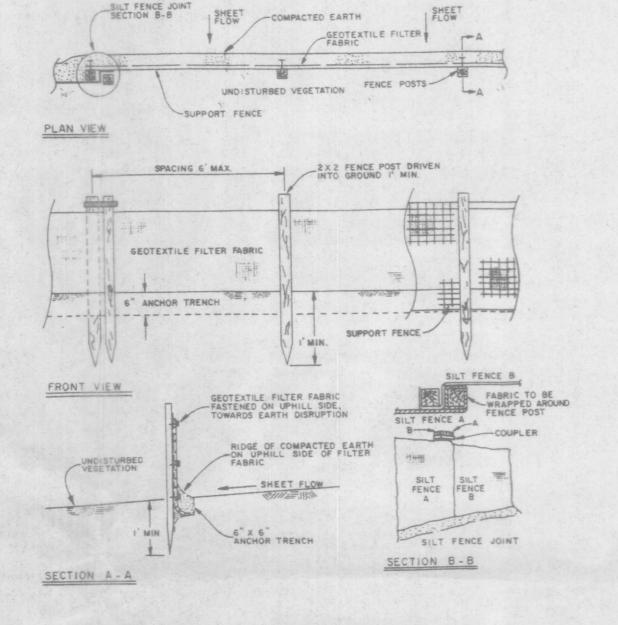
ELEVATION

SNOW FENCE TREE PROTECTION

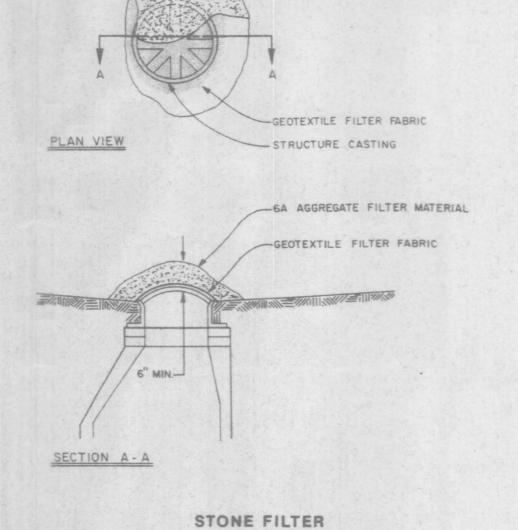




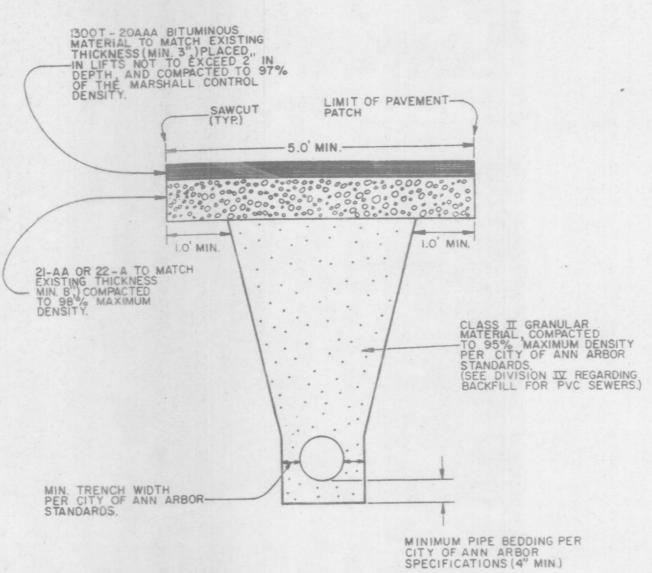
## BITUMINOUS PAVEMENT SECTION



SILT FENCE



-6A AGGREGATE FILTER MATERIAL

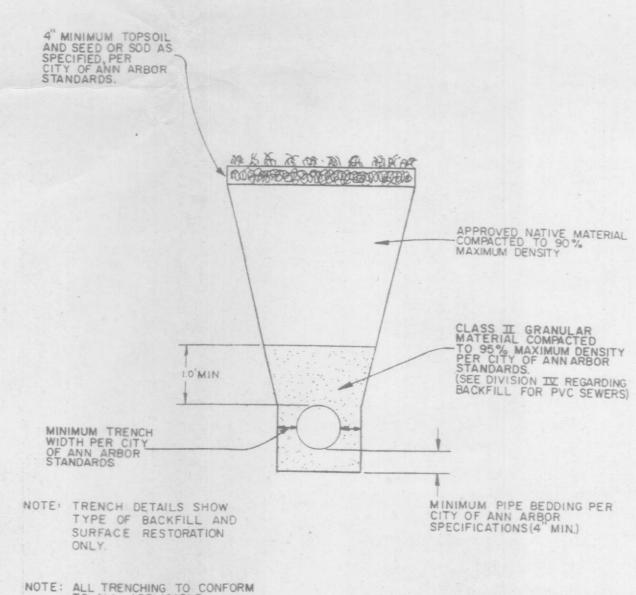


NOTE: DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS

NOTE: TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.

NOTE: ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.

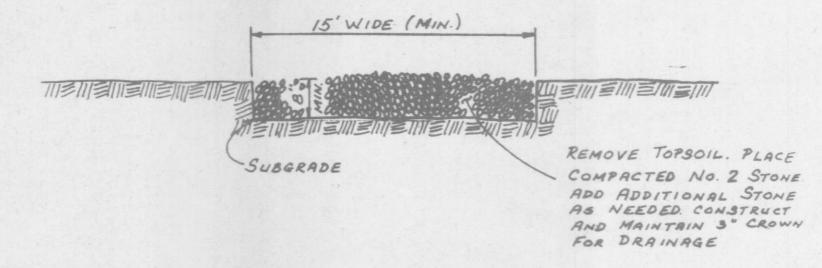
UTILITY TRENCH - TYPE 1



NOTE: ALL TRENCHING TO CONFORM TO ALL APPLICABLE MI.O.S.H.A. STANDARDS.

NOTE: DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.

## UTILITY TRENCH - TYPE V



MUD TRACKING MAT

CHURCH STOLIC APO GRACE OF SEC. 10. W

van goor

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CONSTRUCTION DETAILS

ADMIN, REV. 3 12/1/9

CONTRACTION JOINTS - #4 RE-BAR 3/4" EXP. JT.

ASPHALT PAVEMENT

DRIVE APPROACH - TYPE M

-3/4"EXP. JT.

SPILLOUT CONCRETE CURB & GUTTER

FIRE HYDRANT ASSEMBLY

I) CARRY TO WITHIN 8' TO 10' OF GROUND ELEVATION.

2) MIN. 2" x 2" CEDAR OR TREATED WOOD MARKER, MARKED (SANITARY-RED, STORM-WHITE), SET VERTICALLY.

3) CAP WITH SOLVENT WELDED CAP OR PLUG.

2' DIA. STORM INLET

-CASTING AS SPECIFIED

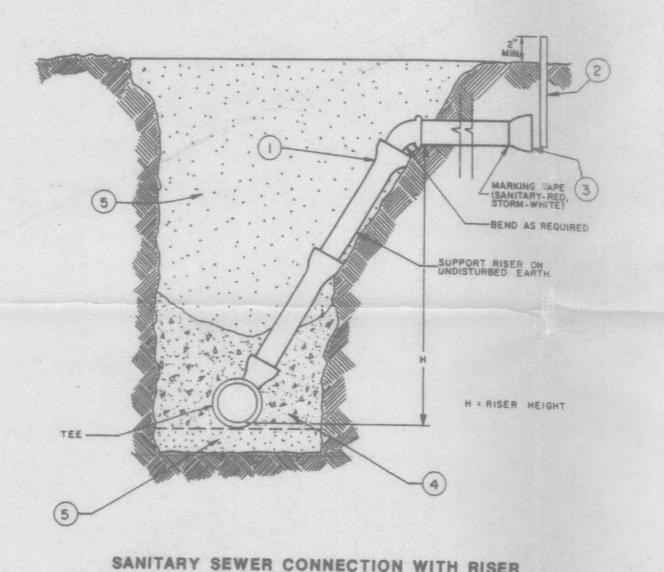
FOR ADJUSTING CASTING TO

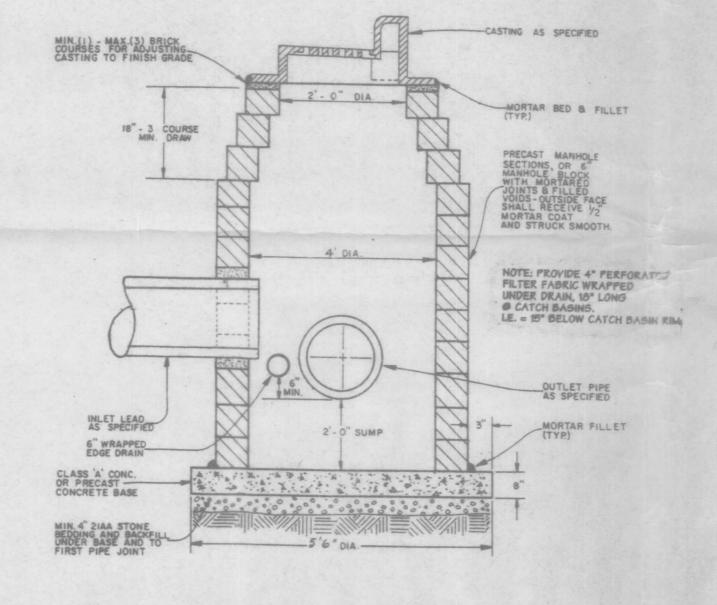
MORTAR BED AND FILLET (TYP)

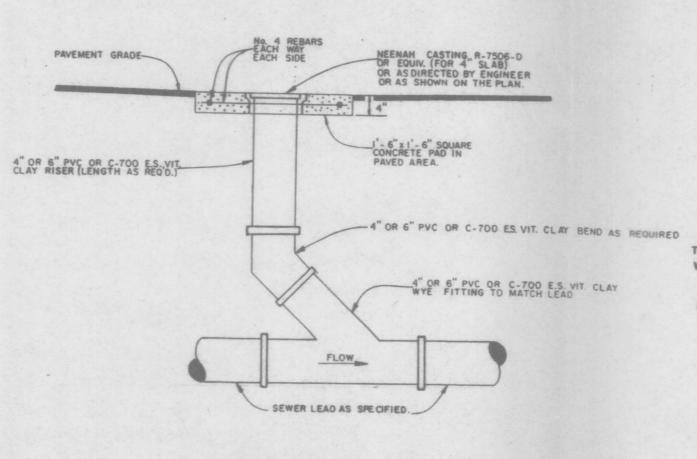
MIN.(1) MAX.(3) BRICK COURSES

6" CONC. MH BLOCK WITH MORTARED JOINTS AND FILLED VOIDS. OUTSIDE FACE SHALL RECEIVE 1/2" MORTAR COAT, AND STRUCK SMOOTH

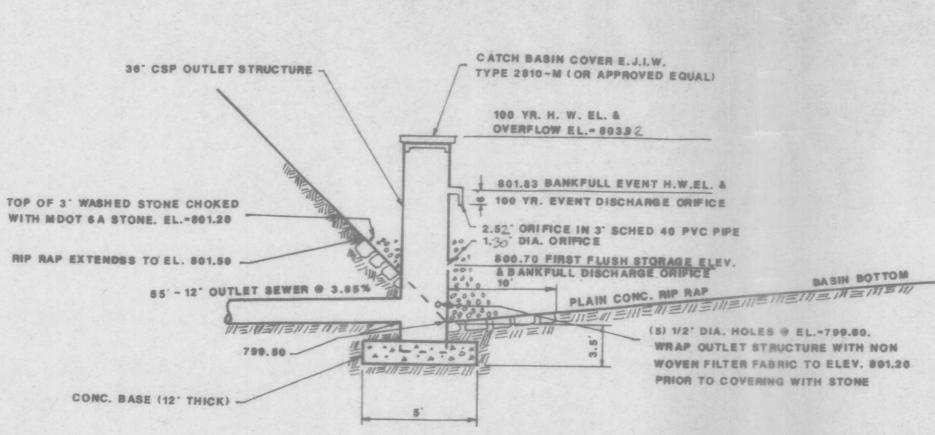
MORTAR FILLET (TYP)







SANITARY SEWER LEAD CLEANOUT



4 DIA. CATCH BASIN

DETENTION BASIN OUTLET STRUCTURE (M.T.S.)

**REVISED 12/03/98** 

## **DETENTION ANALYSIS**

The Proposed Detention Facility will be built on the property it is to serve and will be located immediately north of the Pittsfield-Ann Arbor Drain. Discharge from the Detention Basin will be to this Drain. The lowest point in the Detention Basin will be at elevation 799.50 which is the 100 year storm event elevation in the Drain per the 1992 FEMA Study of the Drain. Therefore, all runoff storage is above the design storm flood elevation of the Drain. All proposed site improvements will be outside of the 100 year flood plain as established by the FEMA study.

Design of this facility must conform to the requirements of the City of Ann Arbor and the Washtenaw County Drain Commissioner's Office. This analysis evaluates facility requirements according to both of these agencies with the design conforming to the more stringent requirement.

Elements Common to City & County Criteria

1. Site area tributary to the basin, including the basin itself = 2.663 acres.

Composite runoff coefficient

Buildings & pavements: 1.765 ac. @ 0.90 = 1.589 (A x C) Detention basin & green areas: 0.898 ac. @ 0.20 = 0.180 (A x C)  $\Sigma A = 2.663$  acres,  $\Sigma A \times C = 1.769$ ,  $C_{AVE} = 0.664$ 

800.00 802.00 10,095 804.00 23,021

Design Per City of Ann Arbor Standards Developed Runoff = 2.663 ac. x 43,560 s. ft./ac. x (4.3"/12"/ft) x 0.664 = 27,600 cu. ft. Undeveloped Runoff = 2.663 ac.  $\times 43,560$  s. ft./ac.  $\times (3.1^{2}/12^{2}/ft) \times 0.20 = 5,993$  cu. ft. Detention Volume Required = 27,600 cu. ft. - 5,993 cu. ft. = 21,607 cu. ft. (at elev. = 803.76)

1. Allowable Discharge @ 0.15 cfs/acre = 0.15 x 2.663 = 0.400 cfs . Discharge Orifice Sizing: Discharge design is governed by rules of The Washtenaw County Drain Commissioner as

facility discharge is directly to the Pittsfield-Ann Arbor Drain, a County Drain under the jurisdiction of the Drain Commissioner's Office. The maximum rate of discharge is equal under both jurisdictions. Only the configuration of the discharge facilities would

Design Per Washtenaw County Drain Commissioner's Standards 1. Area Summary:

a. Total Area = 2.663 acres
b. Composite Runoff Coefficient = 0.664 c.  $\sum (A \times C) = 2.663 \times 0.664 = 1.769$ 

Basin Sizing: a.  $Q_s$  = allowable outflow = 0.15 cfs/ac. x 2.663 = 0.400 cfs

b.  $Q_o = Q_S / \Sigma (A \times C) = 0.400 \text{ cfs} / 1.769 = 0.226$ c.  $T = -25 + (10,312.5/Q_o)^{0.5} = -25 + (10,312.5/0.226)^{0.5} = 188.61 \text{ min.}$ d.  $V_s = ((16,500 \text{ T}) / (T + 25)) - (40 \text{ x } Q_0 \text{ x } T)$  $= [(16,500 \times 188.61) / (188.61 + 25)] - (40 \times 0.226 \times 188.61)$ 

(= 14,568.9 - 1,705.0 = 12,863.9 cu. ft./ac. impervious surface)e.  $V_1 = V_S \times \sum A \times C = 12,863.9 \times 1.769 = 22,756.2 \text{ cu. ft. (at elev.} = 803.94)$ Since the Detention Volume Requirement is greater under the Drain Commissioner's

criteria the design storage volume will be 22,756.2 eu. ft. at a peak storage elevation of 9803.94. 3. Outlet Design:

The outlet design must accommodate three conditions: The "first flush" (0.5" rainfall over the drainage area) The "bankfull event" (1.5 yr. Storm event) The "100 year storm event"

a. First Flush:  $V = 0.5^{\circ} \times 2.663$  ac.  $\times 0.664$  (coefficient)  $\times 1/12$  in./ft.  $\times 43,560$  s.ft./ac. V = 3,209 cu. ft.

"First Flush" storage will be contained below the lowest outlet orifice and will infiltrate into the basin bottom and will also dewater through several small holes at the bottom of the outlet structure. These holes will be protected from clogging by non-woven filter fabric and gravel. The elevation corresponding to the top of the "first flush" condition is 800.70.

 $V = 5,160 \times 2.663$  ac.  $\times 0.664 = 9,124$  cu. ft. (at elev. = 801.83) This volume must be detained for between 24 and 40 hours. Select 32 hours as the design parameter. Volume to be discharged over 32 hours = "bankfull" - "first flush" (=9,124-3,209=5,915 cu. ft.)

Set the discharge orifice at the boundary between the two events = 800.70 elevation Average discharge = 5,915 cu. ft. / 32 hrs x 3600 sec./hr. = 0.051 cfs Peak discharge = 2 x Avg. Discharge = 2 x 0.051 cfs = 0.102 cfs Orifice Sizing (A): Q = 0.62 x A (2 x g x h)<sup>0.5</sup> Where h = bankfull elev. - first flush elev.

= 801.83 - 800.70 = 1.13 ft. $Q = 0.102 \text{ cfs} = 0.62 \times A \times (2 \times 32.2 \times 1.13 \text{ ft.})^{0.3}$  $0.102 = 0.62 \times A \times 8.531$ A = 0.0193 s. ft. = 2.78 s. in.r = 0.94 in.Dia. =  $2 \times r = 2 \times 0.94 = 1.88$  inches. (At elevation = 800.70)

----c. 100 Year Event Discharge: For discharge through lowest orifice at peak storage elevation: h = peak eley. - first flush elevation

h = 803.94 - 800.70 = 3.24 feet.  $Q = 0.62 \times A \times (2 \times 32.2 \times h)^{0.5}$  $= 0.62 \times 0.0193 \times (64.4 \times 3.24)^{0.5}$ = 0.173 cfs

For Main Orifice discharge: Q = Max. Discharge - discharge through lowest orifice

Set main discharge orifice at upper limit of bankfull event (elev. = 801.83) Where h = peak storage elev. - bankfull storage elev. = 803.94 - 801.83 = 2.11 feet  $Q = 0.227 \text{ cfs} = 0.62 \text{ x A x } (2 \text{ x } 32.2 \text{ x h})^{0.5}$  $0.227 \text{ ofs} = 0.62 \times A \times (64.4 \times 2.11)^{0.5}$ 

Set emergency overflow at 0.75 feet above 100 year peak storage elevation.

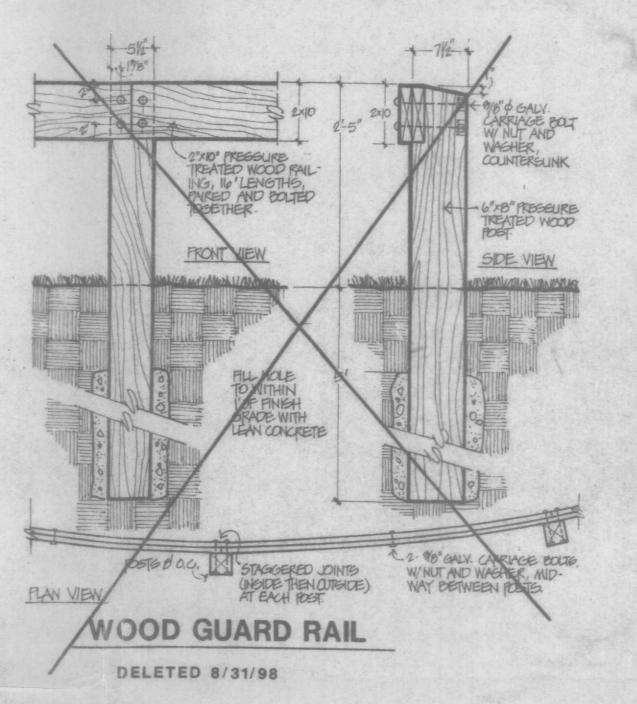
A = 0.031 s. ft. = 4.52 s. in.  $A = 4.52 \text{ s. in.} = \pi r^2, r = 1.29 \text{ in.}$ Dia. =  $2 \times r = 2 \times 1.29$  in. = 2.58 inches. (At elevation = 801.83) d. Emergency Overflow:

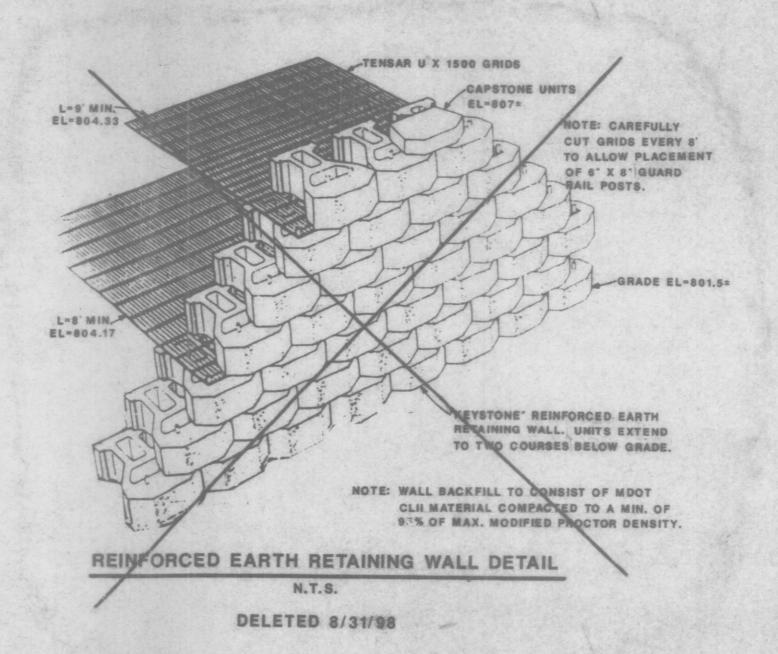
E. O. El. = 803.94 + 0.75 = 804.69 ft. Detention Volume increased to 22,756 cu. ft. (129 cu. ft. increase)

High Water Elevation is at 803.92. Emergency Spillway Elevation is at 804.00.

 Discharge Orifice sizes as follows: "First Flush" (5) 0.50" Dia. holes (At elevation = 799.90) "Bankfull" (1) 1.30" Dia. hole (At elevation = 800.70) "100 Year Event" (1) 2.52" Dia. hole (At elevation = 801.83)
Remove 43 cu. ft. (min.) at each storm discharge end section into Detention Pond (129 cu. ft. total). See sheet C-3.

(SEE LANDSCAPE PLAN FOR SEED SPECIFICATIONS.) 3" (MIN.) TOPSOIL - RAKED (FROM STOCKPILE) SUBGRADE TO BE CLEARED OF STONES LARGER THAN 2". SEEDING





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fax: 734.741.0414

CONSTRUCTION DETAILS

DMIN, REV. 3 12/1/9 ADMIN REV 30 2/6/99

PLANTING MIXTURE .

EVERGREEN TREE PLANTING

SHRUB PLANTING DETAIL

LANDSCAPE REQUIREMENTS REQUIRED PROPOSED (1) R.O.W. Screening 251 18 a. Landscape Buffer 4 trees b. 1 Tree/30 l.f., 120 l.f. 95 L.F. 4 trees @ 4' O.C.=30 24 42 shrubs c Hedge to screen Vehic. Use Area (2) Interior Landscape a. Vehicular Use Area, 41,462 s.f. 48,051 S.F. 2,073 s.f. 2,403 S.F. 3,435 s.f. 3.768 S.F <del>9</del> 10 d. Trees/250 s.f. 1@9" dbh (#69) e. existing trees within 15' of Vehic. Use Area Conflicting Land Use Buffers (1) Land Use Buffer Strip 19 trees 19 trees east (2) 1 Tree/20' of land abutting 25 trees See Application for Modification east-357' ÷ 4=90 90 shrubs (3) Continuous screening west-470': 4=118 See Application for Modification APPROVED Materials Standards 50% evergreen, east (2) Hedging or screening See Application for Modification \* Chapter 57, Attachment C Street Tree Escrow \$1.30/ lineal foot of street frontage, 330.03 l.f. \$429.00 \* Vehicular Use Area Area A 7,134 s.f. 7,358 S.F. +1.000 s.f. 15,220 S.F. 3.480 s.f. 9,763 S.F. D 19,848 s.f. 15,710 S.F. TOTAL 41,462 s.f. 48,051 S.F.

#### GENERAL NOTES:

1. No tree shall be planted less than 2 1/2 feet from sidewalk pavement.

#### GENERAL SPECIFICATIONS

- 1. Contractor must contact MISS DIG prior to beginning planting; 1-800-482-7171.
- 2. The work shall consist of providing all necessary materials, labor, equipment, tools, and supervision required for the completion as shown on the drawings.
- 3. The plant material shall conform to type stated on the plant list. Sizes shall be the minimum stated on the plant list or larger. All measurements shall be in accordance with the latest edition of the "A.A.N Standards for Nursery Stock".
- 4. The plant material shall be nursery grown and inspected by the owner's representative before planting. The owner's representative reserves the right to reject any plant material at any time.
- 5. Plants designated "B&B" shall be balled and burlapped with firm balls of earth.
- 6. The contractor is responsible for planting the materials at the correct grades and spacing. The plants shall be oriented as to give the best appearance.
- 7. When the plant has been properly set, the pit shall be backfilled with a topsoil mixture, gradually filling, patting and settling with water.
- 8. All plant materials shall be pruned and injuries repaired. The amount of pruning shall be limited to the removal of dead or injured twigs, and to compensate for the loss of roots from transplanting. Cuts should be flush, leaving no stubs.
- 9. The contractor agrees to guarantee all plant materials for the period of one year. At that time, the owner's representative reserves the right for a final inspection. Plant material with 25% die-back, as determined by the owner's representative, shall be replaced. This guarantee includes the furnishing of new plants, labor and materials. These new plants shall also be guaranteed for the period of one year.
- 10. Topsoil shall be friable, fertile topsoil of clay loam character containing at least 5% (but not more than 20% by wieght) of organic matter with a PH range from 6.0 to 7.0. Soil shall be free of clay lumps, coarse sand, plant roots, sticks and other debris.
- 11. Apply Preen pre-emergent herbicide to all shrub and ground cover planting beds. Beds shall be mulched with a fine shredded bark to a depth of 3". Place mulch to uniform depth and rake to neat,
- 2. Seed Mix A shall be applied at a rate of 150 lbs./ acre. Seed mix shall consist of the following types and proportions: AOUILA KENTUCKY BLUE GRASS PARK KENTUCKY BLUE GRASS RUBY CREEPING RED FESCUE SCALDIS HARD FESCUE PERENNIAL RYE GRASS WEED CONTENT SHALL NOT EXCEED 1%.

Seed Mix B shall be applied at a rate of 3 lbs. / acre IN DETENTION AREA ONLY.

Seed mix shall consist of the following types and proportions BIG BLUESTEM LITTLE BLUESTEM SAND DROPSEED SWITCHGRASS CANADA WILD RYE INDIANGRASS WEED CONTENT SHALL NOT EXCEED 1%.

3. Asuming construction is undertaken at the beginning of the construction season, all restoration of natural features, seeding, and planting of trees and shrubs shall be done ideally within two time periods: April 15 to June 1, and 1 September to 15 October.

Any deviation from these specified time frames will be at the express approval of the Owner's Representative.

14. GUARANTEE: Contractor will furnish in duplicate a written guarantee to the owner (for a period of one year from the date of acceptance) guaranteeing the continued growth of an even, dense lawn of permanent grasses. Seeded natural areas are to be guaranteed in same manner. If at any time within the guarantee period, it is necessary to re-seed any area to a uniform a coverage of permanent grasses, the contactor will bear all costs thereof.

Maintenance: The contractor shall be responsible for the care, and watering of plant material until the contract is complete and accepted by Owner or Landscape Architect. The contractor shall furnish the owner a written guarantee for replacement of dead or partially dead plant material, for a period of one year from acceptance. Industry standards shall apply.

All diseased, damaged, or dead plant material shall be replaced by the end of the following growing season (in perpetuity).

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CHURCH OSTOLIC R6E, ON TH

LANDSCAPE PLAN

ADMIN REV. 3 12/1/