

**State of Michigan
Department of Environmental Quality**

Land and Water Management Division
38980 Seven Mile Rd
Livonia MI, 48152-1006
734-953-8905

File No. 05-63-0005-P

Date: February 22, 2005

PUBLIC NOTICE

J. B. Donaldson Company, Suite 100, 41850 West Eleven Mile Road, Novi, Michigan, 48375, has applied to this office for a permit under authority of Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The applicant proposes to place fill, utilities, and discharge stormwater into wetlands for the purpose of creating a medical center with associated parking and utilities. The project site is at 28455 Haggerty Rd., Novi, MI. The proposed wetland fill of approximately 578 cubic yards will cover an area of 8276 square feet or 0.19 acres. The 12 inch diameter watermain and sanitary sewer will be placed by open trenching and cross 140 linear feet of wetland, temporarily impacting 2800 square feet or 0.06 acres. A 18 inch diameter pipe will be constructed to carry the stormwater from the site near an existing wetland where it will be discharged. No mitigation is proposed. The project is located in T1N, R8E, Section 12, City of Novi, Oakland County, Michigan, in accordance with plans attached to this notice.

THIS NOTICE IS NOT A PERMIT

The proposed project may also be regulated by one or more additional parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, that are administered by the Land and Water Management Division (LWMD). The requirements of applicable parts are considered in determining if it is in the public interest to issue a permit.

When a permit application is received requesting authorization to work in wetlands of the State of Michigan, pursuant to PART 303, WETLANDS PROTECTION, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, the Act provides that the department submit copies for review to the department of public health, the city, village or township, and the county where the project is to be located, the local soil conservation district, any local watershed council organized under Part 311, and the local port commission. Additional notification is provided to certain persons as required by statute or determined by the department.

A city, village, township or county wanting to make comments on the proposed project shall furnish this office with its written comments no later than 45 days from the date of this notice. All other persons wishing to make comments shall furnish their written comments to this office within 20 days after the date of this notice. Written comments will be made part of the record and should reference the above file number. Objections must be factual, specific, and fully describe the reasons upon which any objection is founded. Unless a written request for a public hearing on this project is filed with the department within the 20-day public comment period, the department may make a decision on the permit application without a public hearing. The determination as to whether a permit will be issued or a public hearing held will be based on an evaluation of all relevant factors as defined in Section 30311 of the Part, including the public comments received and the effect of the proposed work on the public trust or interest.

cc: DNR, Natural Heritage
DNR, Wildlife-Livonia
Oakland Co. Clerk
Oakland Co. Drain Comm.
J B Donaldson Company, applicant
Brooks Williamson & Associates
Novapalex LLC

DNR, Fisheries-Livonia
Oakland Co. Health Dept.
City of Novi Clerk
Oakland Soil Conservation Dist.
History Division
Detroit Edison
✓ Arthur Cervi

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		RECEIVED FEB 16 2005 MDEQ/LWMD PERMIT CONSOLIDATION UNIT		Michigan Department of Environmental Quality (MDEQ) DEQ Geological and Land Management Division MDEQ Permit Number 05-63-0005-P Marina Operating Permit Number <i>Application Renewed</i> Fee received \$ 2-16-05	
AGENCY USE	Previous USACE Permit or File Number	Date Received			
	USACE File Number				
AGENCY USE					

• Complete all items in Sections 1 through 9 and those items in Sections 10 through 21 that apply to your proposed project.

1 PROJECT LOCATION INFORMATION

• Refer to your property's legal description for the Township, Range, and Section information, and your property tax bill for your Property Tax Identification Number(s).

Address 28455 HAGGERTY ROAD		Township Name(s) 1N.		Range(s) 8E.	Section(s) 12
City/Village CITY OF NOVI	County(ies) OAKLAND	Property Tax Identification Number(s) 22-12-400-012			
Name of Waterbody INFINITY MEDICAL	Project Name or Job Number INFINITY MEDICAL	Subdivision/Plat		Lot Number	Private Claim
Project types (check all that apply) <input checked="" type="checkbox"/> private <input type="checkbox"/> public/government <input type="checkbox"/> industrial <input checked="" type="checkbox"/> commercial <input type="checkbox"/> multi-family <input type="checkbox"/> building addition <input checked="" type="checkbox"/> new building or structure <input type="checkbox"/> building renovation or restoration <input type="checkbox"/> river restoration <input type="checkbox"/> single-family <input type="checkbox"/> other (explain)					
The proposed project is on, within, or involves (check all that apply) <input type="checkbox"/> a stream <input type="checkbox"/> a pond (less than 5 acres) <input type="checkbox"/> a Great Lake or Section 10 Waters <input type="checkbox"/> a natural river <input type="checkbox"/> a new marina <input type="checkbox"/> a river <input type="checkbox"/> a channel/canal <input type="checkbox"/> a designated high risk erosion area <input type="checkbox"/> a dam <input type="checkbox"/> a structure removal <input type="checkbox"/> a ditch or drain <input type="checkbox"/> an inland lake (5 acres or more) <input type="checkbox"/> a designated critical dune area <input checked="" type="checkbox"/> a wetland <input type="checkbox"/> a utility crossing <input type="checkbox"/> a floodway area <input type="checkbox"/> a 100-year floodplain <input type="checkbox"/> a designated environmental area <input type="checkbox"/> 500 feet of an existing waterbody					

2 DESCRIBE PROPOSED PROJECT AND ASSOCIATED ACTIVITIES, AND THE CONSTRUCTION SEQUENCE AND METHODS

• Attach separate sheets, as needed, including necessary drawings, sketches, or plans.

CONSTRUCTION OF A MEDICAL CENTER WITH ASSOCIATED PARKING LOT, LOADING AREA, AND STORM WATER MANAGEMENT

3 APPLICANT, AGENT/CONTRACTOR, AND PROPERTY OWNER INFORMATION

- The applicant can be either the property owner or the person or company that proposes to undertake the activity.
- If the applicant is a corporation, both the corporation and its owner must provide a written document authorizing the agent/contractor to act on their behalf.

Applicant (individual or corporate name) J. B. DONALDSON COMPANY			Agent/Contractor (firm name and contact person) BROOKS WILLIAMSON AND ASSOCIATES, INC.		
Mailing Address 41850 W. ELEVEN MILE ROAD, SUITE 100			Address 30366 BECK ROAD		
City NOVI	State MI	Zip Code 48375	City WIXOM	State MI	Zip Code 48393
Daytime Telephone Number with Area Code 248-344-9045			Daytime Telephone Number with Area Code 248 624-9100		
Fax 248-344-9145			Fax 248 624-3963		
Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If No, provide a letter signed by the property owner authorizing the agent/contractor to act on his or her behalf or a copy of easements or right-of-ways. If multiple owners, please attach all property owners' names, mailing addresses, and telephone numbers.)					
Property Owner's Name (If different from applicant)			Mailing Address		
Daytime Telephone Number with Area Code			City State Zip Code		

4 PROPOSED PROJECT PURPOSE, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose must include any new development or expansion of an existing land use.
- Include a description of alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative construction technologies; alternative project layout and design; alternative locations; local land use regulations and infrastructure; and pertinent environmental and resource issues.
- For utility crossings, include both alternative routes and alternative construction methods.

THE PURPOSE OF THE PROJECT IS TO CONSTRUCT A MEDICAL CENTER WITH ASSOCIATED PARKING LOT, LOADING AREA, AND STORM WATER MANAGEMENT ON PROPERTY OWNED BY THE APPLICANT

5 LOCATING YOUR PROJECT SITE

- Provide the requested information listed below that will help staff in locating your project site.
- Attach a copy of a map, such as a plat, county, or USGS topographic map, clearly showing the site location and include an arrow indicating the north direction.

Is there an access road to the project? ☐ No ☒ Yes (If Yes, type of road, check all that apply) ☐ private ☒ public ☒ improved ☐ unimproved

Name of roads at closest main intersection **HAGGERTY and 12 MILE ROAD**

Directions from main intersection **WEST OFF HAGGERTY, NORTH OF 12 MILE**

Style of house or other building on site ☒ ranch ☐ 2-story ☐ cape cod ☐ bi-level ☐ cottage/cabin ☐ pole barn ☐ none ☐ other (describe)

Color **BRICK** Color of adjacent property house and/or buildings

House number **28455** Address is visible on ☐ house ☐ garage ☒ mailbox ☐ sign ☐ other

Street name **HAGGERTY** Fire lane number Lot number

How can your site be identified if there is no visible address?

Provide directions to the project site, with distances from the best and nearest visible landmark and waterbody

SEE ATTACHED SITE LOCATION MAP AND DIRECTIONS UNDER HEADING "PROJECT LOCATION"

Does project cross boundaries of two or more political jurisdictions? (City/Township, Township/Township, County/County, etc.)

☒ No ☐ Yes (If Yes, list jurisdiction names.)

6 List all other federal, interstate, state, or local agency authorizations required for the proposed activity, including all approvals or denials received.

Agency	Type approval	Identification number	Date applied	Date approved / denied	If denied, reason for denial
CITY OF NOVI	SITE PLAN			APPROVED: 10-27-04	
MDEQ	SOIL				
	EROSION				
MDEQ	ACT 91,				
	SANITARY				

7 If a permit is issued, date activity will commence (M/D/Y)

Has any construction activity commenced or been completed in a regulated area? ☒ No ☐ Yes

If Yes, identify the portion(s) underway or completed on drawings or

attach project specifications and give completion date(s) (M/D/Y)

Proposed completion date (M/D/Y)

Were the regulated activities conducted under a MDEQ permit?

☐ No ☐ Yes

If Yes, list the MDEQ permit number

Are you aware of any unresolved violations of environmental law or litigation involving the property? ☒ No ☐ Yes (If Yes, please explain)

8 PUBLIC NOTIFICATION (Attach additional sheets if necessary)

- Complete information for all adjacent and impacted property owners and the lake association or established lake board including the contact person's name.
- If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.

Property Owner's Name

Mailing Address

City

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SEE ATTACHED LIST OF ADJACENT RIPARIAN OR IMPACTED PROPERTY OWNERS

MDEQ/LWMD
PERMIT CONSOLIDATION UNIT

Name of ☐ Established Lake Board ☐ or Lake Association

and the Contact Person's Name, telephone number, and mailing address

9 APPLICANT'S CERTIFICATION**READ CAREFULLY BEFORE SIGNING**

I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application, that it is true and accurate, and, to the best of my knowledge, is in compliance with the State Coastal Zone Management Program and the National Flood Insurance Program. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the MDEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site and the completed project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does not release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does not guarantee the issuance of a permit.

- All applicants must complete all the items in Sections 1 through 9 on pages 1 and 2 of this application.
- Complete those items in Sections 10 through 21 that apply to your project. Submit only those pages where you have provided information.
- Please list here the application page numbers being submitted and a brief description of other attachments included with your application.
- Your permit decision will be delayed if forms are incomplete or maps and/or drawings are not submitted.

JOINT PERMIT APPLICATION FORM PAGES 1, 2, 3, 4, 6

AND ATTACHED COVER LETTER, DESCRIPTIVE NARRATIVE, FIGURES, WETLAND REPORT, AND FULL SIZED PLANS

- ☐ Property Owner
☒ Agent/Contractor
☐ Corporation - Title

Printed Name **BRAD J. KASSUBA**

Signature

Brad J. Kassuba

Date **12-29-04**

10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE

- Check boxes A through N that may be applicable to your project and provide the requested information.
- If your project may affect wetlands, also complete Section 12. If your project may impact regulated *floodplains*, also complete Section 13.
- Provide an overall site plan showing existing lakes, streams, wetlands, and other water features; existing *structures*; and the location of all proposed *structures*, land change activities and *soil erosion and sedimentation control measures*. Please review sample drawings for guidance in completing site-specific drawings for your project.
- On a Great Lake use IGLD 85 ☐ surveyed ☐ converted from observed still water elevation. On inland waters, ☒ NGVD 29 ☐ local datum ☐ other

Observed water elevation (ft) _____, date of observation (M/D/Y) _____

☒ **A. PROJECTS REQUIRING FILL** (See All Sample Drawings)

- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
- Attach both plan and cross-section views to scale showing maximum and average fill dimensions.

 (Check all that apply) ☐ floodplain fill ☒ wetland fill ☐ riprap ☐ seawall, bulkhead, or revetment ☐ bridge or culvert
☐ boat launch ☐ off-shore swim area ☐ beach sanding ☐ boatwell ☐ crib dock ☐ other

 Fill dimensions (ft) length **170** width **50** maximum depth **2** Fill volume (cu yd) **578** Maximum water depth in fill area (ft) **0**
Type of clean fill ☐ pea stone ☐ sand ☐ gravel ☐ wood chips ☒ other **EARTH**Will filter fabric be used under proposed fill?
☒ No ☐ Yes (If Yes, type) _____Source of clean fill ☐ on-site, If on-site, show location on site plan ☒ commercial ☐ other, If other, attach description of location

Fill will extend _____ feet into the water from the shoreline and upland _____ feet out of the water.

☐ **B. PROJECTS REQUIRING DREDGING OR EXCAVATION** (For dredging projects, see Sample Drawing 7, for excavation, see other applicable Sample Drawings)

- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
- Attach both plan and cross-section views to scale showing maximum and average dredge or excavation dimensions.
- The applicant will be notified if sediment sampling will be required.

 (Check all that apply) ☐ floodplain excavation ☐ wetland dredge or draining ☐ seawall, bulkhead, or revetment
☐ navigation ☐ boat well ☐ boat launch ☐ other

Dredge/excavation volume (cu yd) _____ Dimensions (ft) length _____ width _____ depth _____ Method and equipment for dredging _____

Has proposed dredge material been tested for contaminants?

☐ No ☐ Yes (If Yes, attach testing results)Will dredged or excavated spoils be placed ☐ on-site ☐ off-site?
Attach a detailed disposal area site plan and location map.Has this same area been previously dredged? ☐ No ☐ Yes (If Yes, provide date and permit number, if available) (M/D/Y)If Yes, are you proposing to enlarge the previously dredged area? ☐ No ☐ YesIs long-term maintenance dredging planned? ☐ No ☐ Yes (If Yes, when and how much?)☐ **C. PROJECTS REQUIRING RIPRAP** (See Sample Drawings 2, 3, 8, 12, 14, 17, 22, and 23. Others may apply)
 Riprap waterward of the ☐ shoreline OR ☐ ordinary high water mark Dimensions (ft) length _____ width _____ depth _____ Volume (cu yd) _____

 Riprap landward of the ☐ shoreline OR ☐ ordinary high water mark Dimensions (ft) length _____ width _____ depth _____ Volume (cu yd) _____
Type of riprap ☐ field stone ☐ angular rock ☐ otherWill filter fabric be used under proposed riprap? ☐ No ☐ Yes (If Yes, type) _____☐ **D. SHORE PROTECTION PROJECTS** (See Sample Drawings 2, 3, and 17)

(check all that apply)

☐ riprap - length _____ ft. ☐ seawall/bulkhead - length _____ ft. ☐ revetment - length _____ ft. Distances of project from both property lines (ft) _____
☐ **E. DOCK - PIER - MOORING PILINGS** (See Sample Drawing 10)Type ☐ open pile ☐ filled ☐ crib Seasonal structure? ☐ No ☐ Yes

Proposed structure dimensions (ft) length _____ width _____ Dimensions of nearest adjacent structures (ft) length _____ width _____

☐ **F. BOAT WELL** (No Sample Drawing available)Type of bank stabilization ☐ wood ☐ steel ☐ concrete ☐ vinyl ☐ riprap ☐ other

Boat well dimensions (ft) length _____ width _____ depth _____ Number of boats _____

Volume of backfill behind sidewall stabilization (cu yd) _____ Distances of boat well from adjacent property lines (ft) _____

☐ **G. BOAT LAUNCH** (No Sample Drawing available) (check all that apply) ☐ new ☐ existing ☐ public ☐ private ☐ commercial ☐ replacement
 Proposed overall boat launch dimensions (ft) length _____ width _____ depth _____ Type of material ☐ concrete ☐ wood ☐ stone ☐ other

Existing overall boat launch dimensions (ft) length _____ width _____ depth _____ Boat launch dimensions (ft) below ordinary high water mark length _____ width _____ depth _____

Distances of launch from both property lines (ft) _____ Number of skid piers _____ Skid pier dimensions (ft) width _____ length _____

☐ **H. BOAT HOIST** (No Sample Drawing available)
 (Check all that apply) ☐ seasonal ☐ permanent ☐ cradle ☐ side lifter ☐ other located on ☐ seawall ☐ dock ☐ bottomlands
☐ **I. BOARDWALKS AND DECKS IN ☐ WETLANDS - OR - ☐ FLOODPLAINS** (See Sample Drawings 5 and 6)
 (Check all that apply) ☐ boardwalk ☐ deck Boardwalk or deck is on ☐ fill ☐ piling Dimensions (ft) length _____ width _____

10 Continued - PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE**J. INTAKE PIPES (See Sample Drawing 16) ☐ OUTLET PIPES (See Sample Drawing 22)**

Type <input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> pipe <input type="checkbox"/> other	If outlet pipe, discharge is to <input type="checkbox"/> wetland <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain, or river <input type="checkbox"/> Great Lake <input type="checkbox"/> other	
Dimensions of headwall OR end section (ft) length width depth	Number of pipes	Pipe diameters and invert elevations

K. MOORING AND NAVIGATION BUOYS (No Sample Drawing available)

- Provide an overall site plan showing the distances between each buoy, distances from the shore to each buoy, and depth of water at each buoy in feet.
- Provide cross-section drawing(s) showing anchoring system(s) and dimensions.

Number of buoys	Type of anchor system	Purpose of buoy <input type="checkbox"/> mooring <input type="checkbox"/> navigation
Dimensions of buoys (ft) width height		Do you own the property along the shoreline? <input type="checkbox"/> No <input type="checkbox"/> Yes (If No, you must provide an authorization letter from the property owner(s))

L. GROINS (No Sample Drawing available)

- Provide an overall site plan showing the distances (ft) of the outermost groins from the property lines, distances between groins, length and width of each groin, and the distance from the existing toe of the bluff to the lakeward end of the groins.
- If existing groins are located on adjacent properties, provide distances (ft) from closest neighboring groin to your property lines on the site plan.
- Provide cross-section views showing the length and height of each groin and the height of groin ends above the observed water level (date and time). If step down type, show the height of each section above the observed water level.

Number of groins	Type of groin <input type="checkbox"/> steel <input type="checkbox"/> wood <input type="checkbox"/> other	Will groin be placed on a foundation? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, dimensions of foundation (ft) length width height)
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M. FENCES IN WETLANDS, STREAMS, OR FLOODPLAINS (No Sample Drawing available)

- Provide an overall site plan showing the proposed fencing through wetlands, streams, or floodplains.
- Provide drawing of fence profile showing the design, dimension, post spacing, board spacing, and distance from ground to bottom of fence (if in a floodplain).

(check all that apply) <input type="checkbox"/> wetlands <input type="checkbox"/> streams <input type="checkbox"/> floodplains	Total length (ft) of fence through wetlands streams floodplains	Fence height (ft)	Fence type and material
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N. OTHER - e.g., structure removal, marine railway, low sand trap wall, breakwater, and structural foundations in wetlands or floodplains**11 EXPANSION OF AN EXISTING OR CONSTRUCTION OF A NEW LAKE OR POND (See Sample Drawings 4 and 15)**

Which best describes your proposed waterbody use (check all that apply)

☐ wildlife ☐ stormwater retention basin ☐ stormwater detention basin ☐ recreation ☐ wastewater basin ☐ other

Water source for lake/pond

☐ groundwater ☐ natural springs ☐ Inland Lake or Stream ☐ stormwater runoff ☐ pump ☐ sewageLocation of the lake/basin/pond ☐ floodplain ☐ wetland ☐ uplandWill project involve construction of a dam, dike, outlet control structure, or spillway? ☐ No ☐ Yes (If Yes, complete Section 17)**12 ACTIVITIES THAT MAY IMPACT WETLANDS**

- For information on the MDEQ's Wetland Assessment Program, please visit the GLMD website or call 517-241-8485.

(check all that apply) ☒ fill (Section 10A) ☐ dredge or excavation (Section 10B) ☐ boardwalk or deck (Section 10I)
☐ fences (Section 10M) ☐ bridges and culverts (Section 14) ☐ draining surface water ☐ other

Has a professional wetland delineation been conducted for this parcel? ☐ No ☒ Yes (If Yes, please provide a copy; if federal method was used, supply data sheets) Applicant purchased property
☐ before OR ☒ after October 1, 1980.

Is there a recorded MDEQ easement on the property? ☒ No ☐ Yes (If Yes, please provide the number)Has the MDEQ conducted a wetland assessment for this parcel? ☒ No ☐ Yes (If Yes, please provide a copy)

Describe the wetland impacts, proposed use or development, and efforts to avoid/minimize impacts. Describe the wetland alternatives and provide the type and amount of mitigation proposed if more than 1/3 acre is to be impacted.

SEE ATTACHED NARRATIVE DESCRIBING PROPOSED ACTIVITIES, ALTERNATIVES, MINIMIZATION OF IMPACTS

Is any grading or mechanized land clearing proposed? ☐ No ☒ Yes Has any of the proposed grading or mechanized land clearing been completed?
 (If Yes, please show locations on site plan) ☒ No ☐ Yes (If Yes, please label and show locations on site plan)

- Complete the wetland dredge and wetland fill dimension information for each impacted wetland area. Attach additional sheets if necessary and label the impacted wetland areas on a site plan drawn to scale. Please attach at least one typical cross-section for each wetland dredge and/or fill area. (See Sample Drawings 8 & 9)
- Also complete Section 10A for fill and Section 10B for dredge or excavation activities.
- If dredge material will be disposed of on site, please show the location on site plan in an upland area and include soil erosion and sedimentation control measures.

Wetland dredge dimensions	maximum length (ft)	maximum width (ft)	dredge area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	average depth (ft)	dredge volume(cu yd)
Wetland fill dimensions	maximum length (ft) 170	maximum width (ft) 70	fill area 0.19 <input checked="" type="checkbox"/> acres <input type="checkbox"/> sq ft	average depth (ft) 1.84	fill volume(cu yd) 578
Total wetland dredge area <input type="checkbox"/> acres <input type="checkbox"/> sq ft			Total wetland dredge volume (cu yd)		
Total wetland fill area 0.19 <input checked="" type="checkbox"/> acres <input type="checkbox"/> sq ft			Total wetland fill volume (cu yd) 578		

The proposed project will be serviced by ☒ public sewer
☐ private septic system (If septic system, show existing and new or expanded system on plans)

If septic system, has application been made to the
 County Health Department for a permit? ☐ No ☐ Yes

If Yes, has permit been issued?
☐ No ☐ Yes (If Yes, provide copy)

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16 DRAWDOWN OF AN IMPOUNDMENT

- If wetlands will be impacted, also complete Section 12.

Type of drawdown <input type="checkbox"/> over winter <input type="checkbox"/> temporary <input type="checkbox"/> one-time event <input type="checkbox"/> annual event <input type="checkbox"/> permanent (dam removal) <input type="checkbox"/> other.		
Reason for drawdown		
Has there been a previous drawdown? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, provide date (M/Y))		Previous permit number, if known
Does waterbody have established legal lake level? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not Sure		Dam ID Number, if known
Extent of vertical drawdown (ft)	Impoundment design head (ft)	Number of adjacent or impacted property owners
Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
Type of outlet discharge structure to be used <input type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid-depth	Impoundment area at normal water level (acres)	Sediment depth behind impoundment discharge structure (ft)

17 DAM, EMBANKMENT, DIKE, SPILLWAY, OR CONTROL STRUCTURE ACTIVITIES (See Sample Drawing 15)

- If wetlands will be impacted, also complete Section 12.
- Please attach site-specific conceptual plans for construction of a new dam, reconstruction of a failed dam, or enlargement of an existing dam for resource impact review. Detailed engineering plans are required once the activity has been determined to be permissible from an environmental standpoint.
- Please attach detailed engineering plans for a dam repair, dam alteration, dam abandonment, or dam removal.

Which one best describes your project? <input type="checkbox"/> new dam construction <input type="checkbox"/> reconstruction of a failed dam <input type="checkbox"/> enlargement of an existing dam <input type="checkbox"/> dam repair <input type="checkbox"/> dam alteration <input type="checkbox"/> dam abandonment <input type="checkbox"/> dam removal <input type="checkbox"/> other			
Dam ID Number If known	Type of outlet discharge structure <input type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid depth	Will proposed activities require a drawdown of the waterbody to complete the work? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, also complete Section 16)	
Riprap volume (cu yd)	Dredging/excavation volume (cu yd)	Fill volume (cu yd)	Does structure allow complete drainage of waterbody <input type="checkbox"/> No <input type="checkbox"/> Yes
Benchmark elevation (ft)	Datum used <input type="checkbox"/> Local <input type="checkbox"/> NGVD 29 <input type="checkbox"/> other	Describe benchmark and show on plans	
Have you engaged the services of a Licensed Professional Engineer? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, name, registration number, and mailing address)			
Will a water diversion during construction be required? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, describe how the stream flow will be controlled through the dam construction area during the proposed project activities)			
<ul style="list-style-type: none"> The following additional information is required for a new dam, reconstruction of a failed dam, or enlargement of an existing dam. 			
Describe the type of dam and how you will design the dam and embankment to control seepage through and underneath the dam.			
Embankment top elevation (ft)	Streambed elevation at downstream embankment toe (ft)	Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft)	
Embankment length (ft)	Embankment top width (ft)	Embankment bottom width (ft)	Embankment slopes (vertical / horizontal) Upstream / Downstream /
Proposed normal pool elevation (ft)	Impoundment flood elevation (ft)	Maximum vertical drawdown capability (ft) (attach operational procedure of the proposed structure if available)	
Have soil borings been taken at dam location? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, submit results with permit application)	Will a cold water underspill be provided? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, invert elevation ft)	Do you have flowage rights to all proposed flooded property at the design flood elevation? <input type="checkbox"/> No <input type="checkbox"/> Yes	

18 UTILITY CROSSINGS (See Sample Drawings 12 and 13)

- If side casting is required, complete Subsections 10A and 10B. If spoils will be placed in wetlands or wetlands may be impacted, complete Section 12.
- Please attach additional sheets with the requested information as needed for multiple crossings.

What method will be used to construct the crossings? <input type="checkbox"/> flume <input type="checkbox"/> plow <input checked="" type="checkbox"/> open trench <input type="checkbox"/> jack and bore <input type="checkbox"/> directional drilling			Crossing of <input type="checkbox"/> Inland Lake or Stream <input type="checkbox"/> floodplain <input type="checkbox"/> international waters <input checked="" type="checkbox"/> wetlands (also complete Section 12)		
Type	Number of wetland crossings	Number of inland lake or stream crossings	Pipe diameter (inches)	Pipe length per crossing (feet)	Distance below streambed or wetland (inches)
<input checked="" type="checkbox"/> sanitary sewer	1		12	140	72
<input type="checkbox"/> storm sewer					
<input checked="" type="checkbox"/> watermain	1		12	140	48
<input type="checkbox"/> cable					
<input type="checkbox"/> oil/gas pipeline					

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PROPOSED ACTIVITIES

The proposed project involves the construction of a medical center with associated parking area, underground stormwater detention, and stormwater discharge to wetlands. Locations of activities involving wetlands are indicated on the reduced site plan (Figures 2 & 3).

Fill Area

Placement of approximately 578 cubic yards of material within a 0.19 acre wetland area for construction of a medical building with associated parking and underground detention (Figures 5 & 6). Approximately 0.27 acre of City of Novi wetland buffer impact is also proposed.

Off-site Utility Crossing

Install 140 lineal feet of 12 inch diameter sanitary and water main through wetlands using the open trench method (Figures 7 & 8). This will involve 2800 square feet of temporary wetland impact along a 20 foot wide disturbance corridor. The utility trench will be backfilled in reverse order with sidecast soils, topsoil on top, and allowed to re-vegetate naturally from the existing seed bank. Clay plugs will be installed at the wetland boundary to prevent dewatering of wetland.

The applicant/engineer has stated that all impacts are proposed within an easement held by the City of Novi easement area or within the Haggerty Road right-of-way. In addition, the applicant/engineer states that the City has requested that these utilities be placed in this easement area.

Stormsewer Discharge to Wetlands

Undetained stormwater from the western portion of the site will be discharged via buried pipe to uplands and then sheet flow to the existing wetland located at the southwest corner of the property (Figures 8, 9, 12 & 13).

The project engineer states that this discharge does not constitute stormwater detention in wetlands because this wetland has a positive outflow to the south and to the east where it continues beneath Haggerty Road. See Figure 15 to show positive outflow.

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ALTERNATIVES AND MINIMIZATION OF IMPACTS

In the final site plan, the wetland fill is considered unavoidable due to its position within the center of the site. This site is narrow and the wetland traverses the entire property.

In our opinion this wetland is of low quality due to its isolation, the presence of invasive species, and decline of existing trees. The consultants from the City of Novi have referenced the dead and dying trees in this wetland in the attached letter dated from Tilton & Associates, Inc (Attachment B).

All soil erosion measures necessary will be employed to prevent siltation of wetland. All disturbed areas are to be promptly stabilized.

Stormwater runoff from the eastern portion of the proposed project will be detained and discharged into a roadside upland ditch. Water will enter this ditch and travel south.

Water entering the existing wetlands will be flow-through water due to a positive outlet (Figure 15).

One possible alternative is to have a road crossing the wetland. The applicant indicates this would not allow a functional relationship between the building and the parking lot located to the west.

Another alternative is to make greater use of upland forest areas at the western portion of the site. The applicant indicates that preservation of the wetland by utilizing this area is not a feasible alternative. The woodlands located in this portion of the site are regulated by The City of Novi, and the applicant believes that use of this woodland will not be approved by the City. See letter from Vilican Leman & Associates, Inc. (Attachment B).

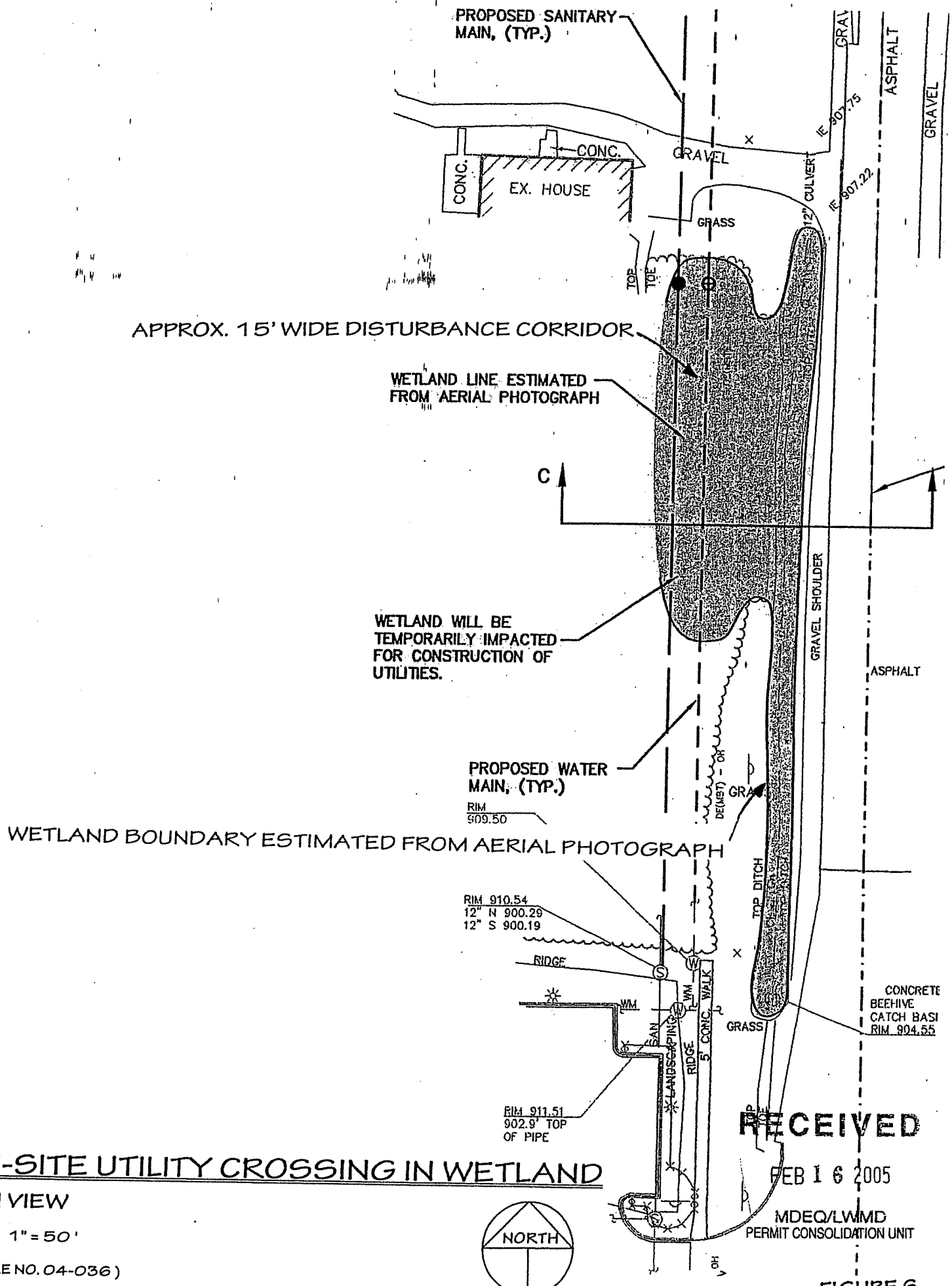
We believe the proposed medical center represents only minimal impacts. We request MDEQ review and approvals.

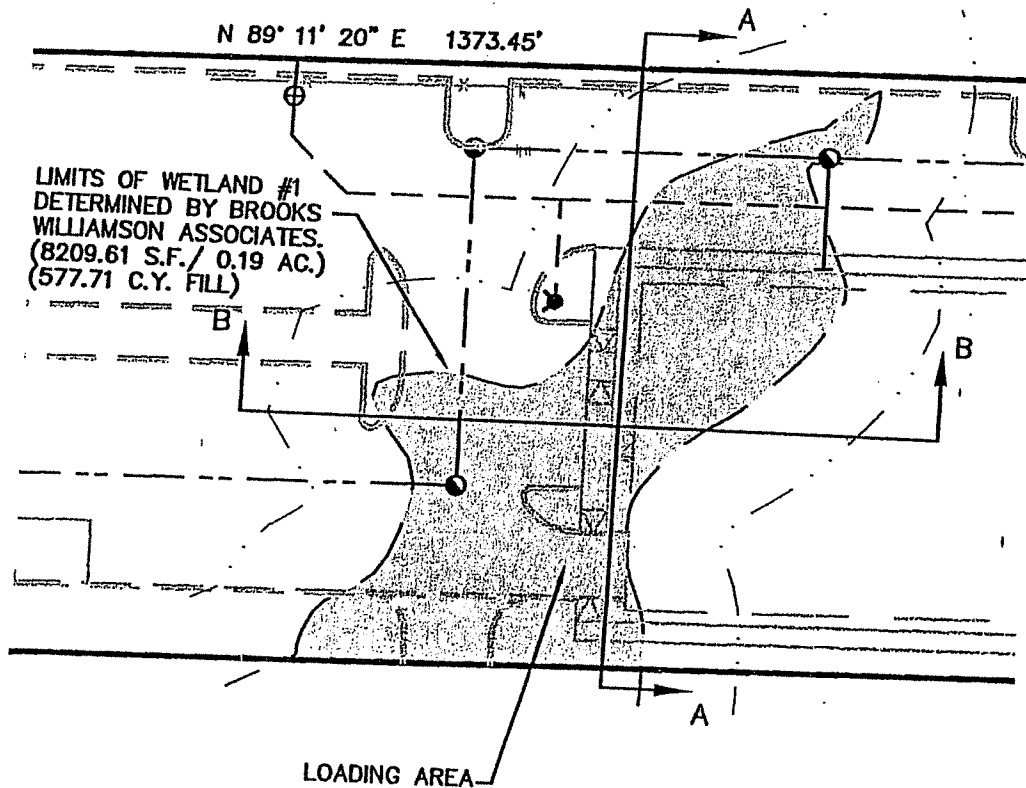
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WETLAND BOUNDARY FILL AREA



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FILL IN WETLAND

PLAN VIEW

SCALE: 1" = 50'

(BWA FILE NO. 04-036)

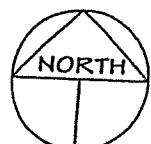
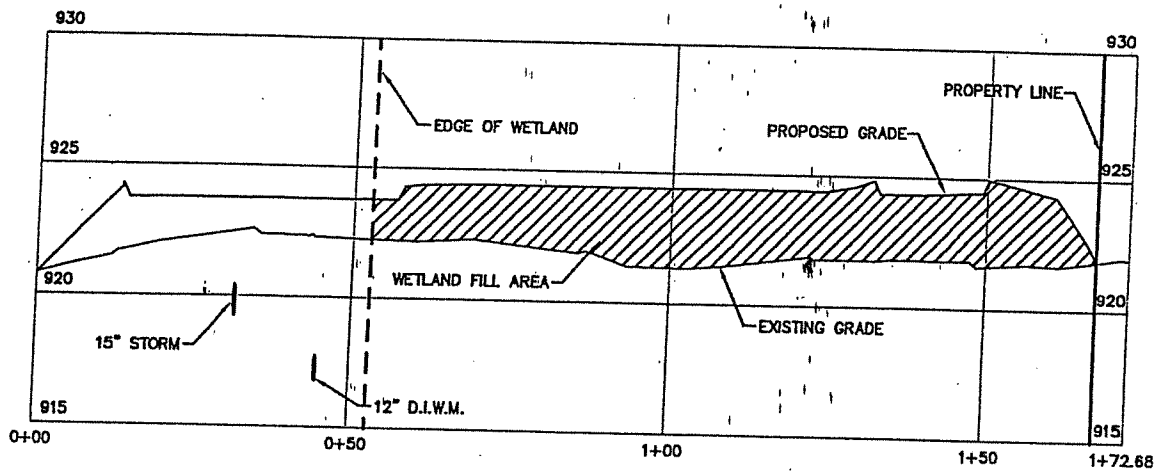
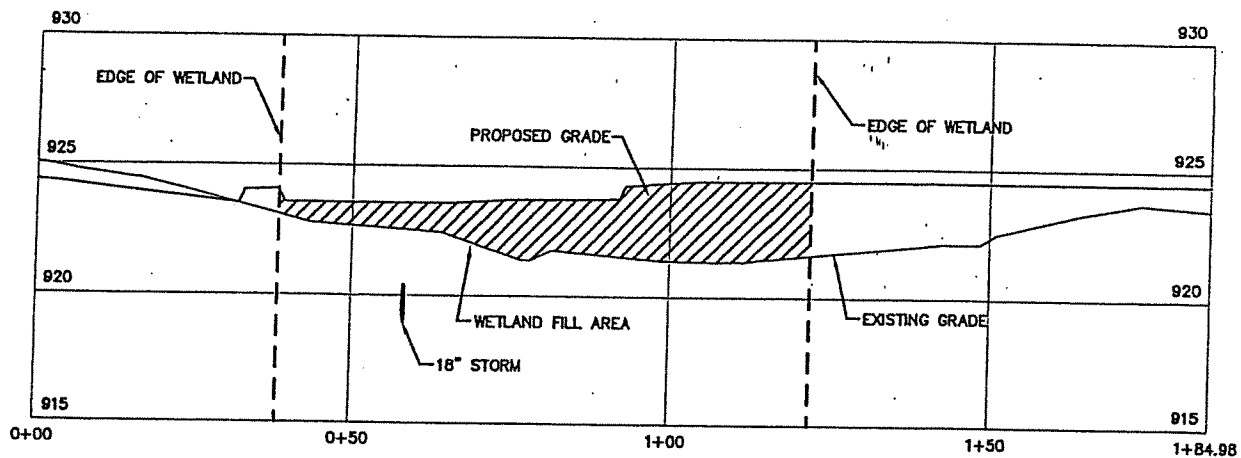


FIGURE 4



SECTION A-A



SECTION B-B

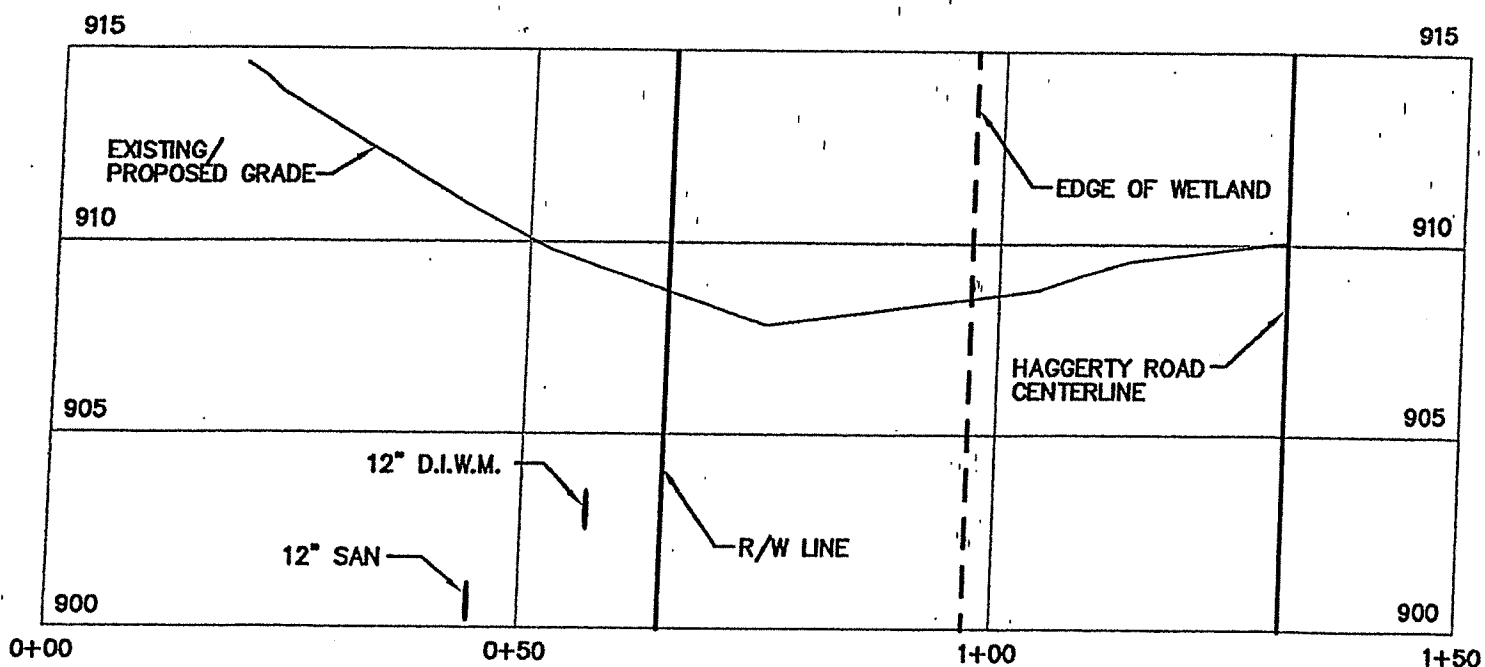
FILL IN WETLAND

ENGINEER'S CROSS-SECTION VIEWS

SCALE: HORIZ 1" = 30'
VERT 1" = 10'

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SECTION C-C

OFF-SITE UTILITY CROSSING IN WETLAND

ENGINEER'S CROSS-SECTION VIEW

SCALE: HORIZ 1" = 20'
VERT 1" = 5'

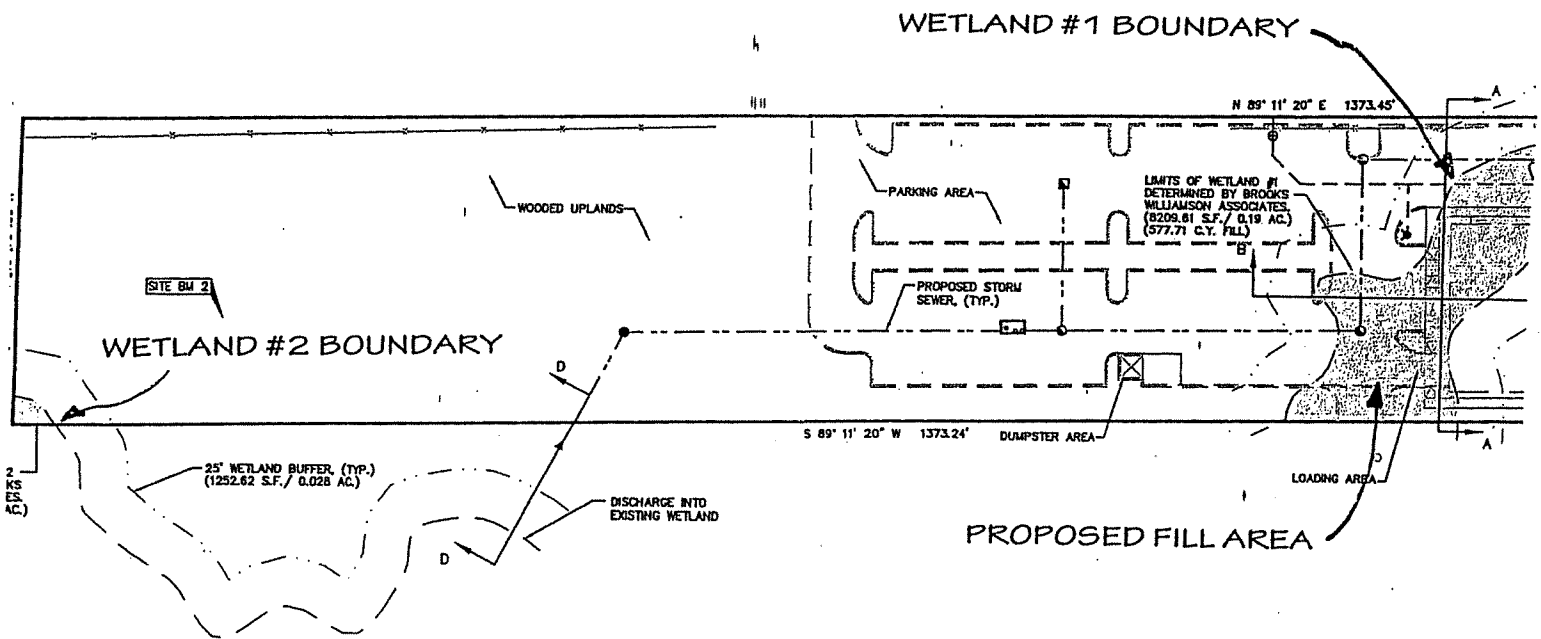
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FIGURE 7



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LOCATIONS OF WETLAND AREAS AND ACTIVITIES (WESTERN PORTION)

REDUCED SITE PLAN

SCALE: 1" = 100'

(BWA FILE NO. 04-036)

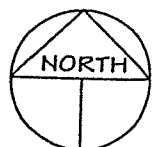
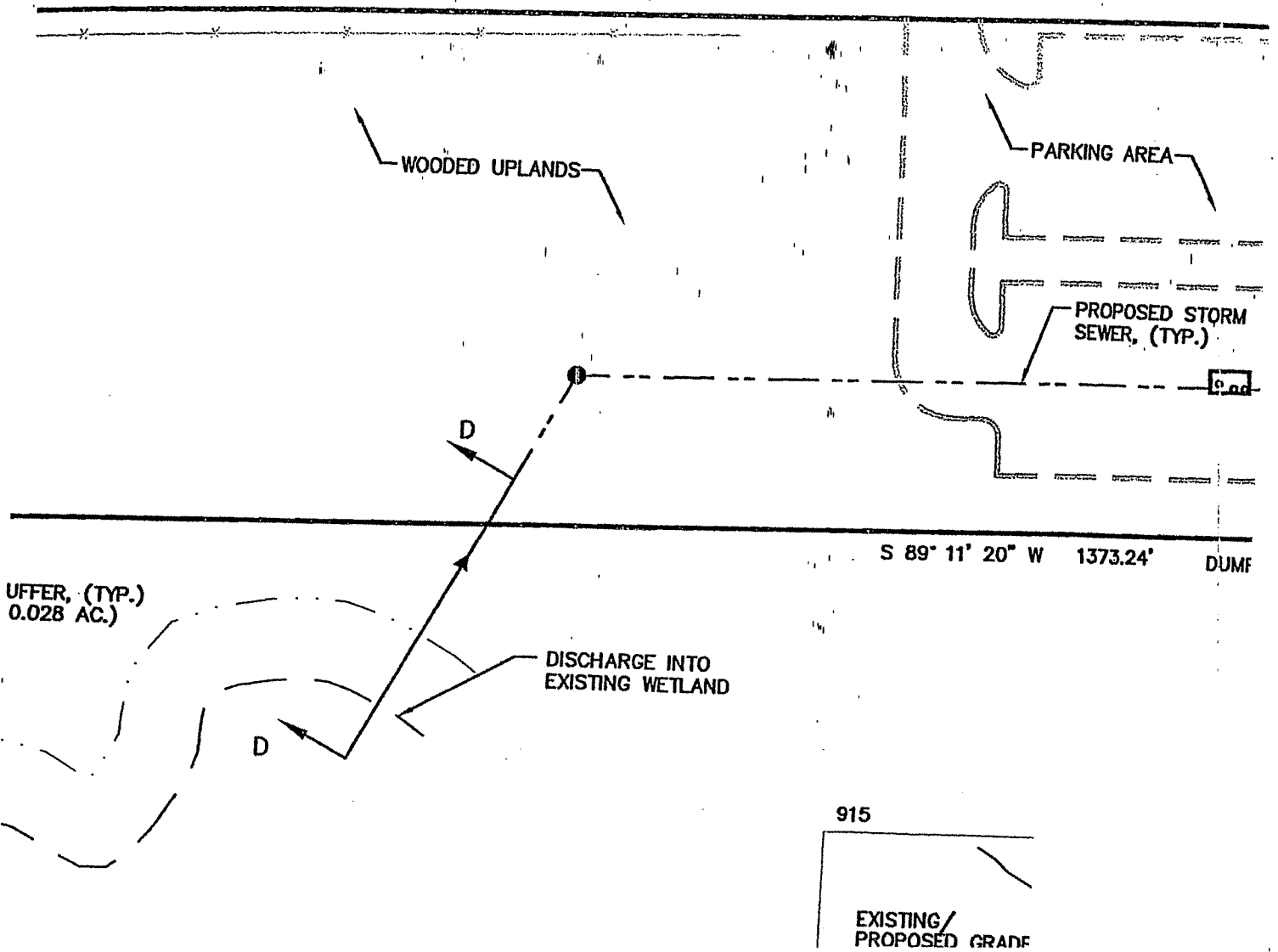


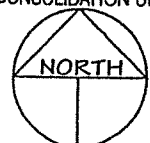
FIGURE 3



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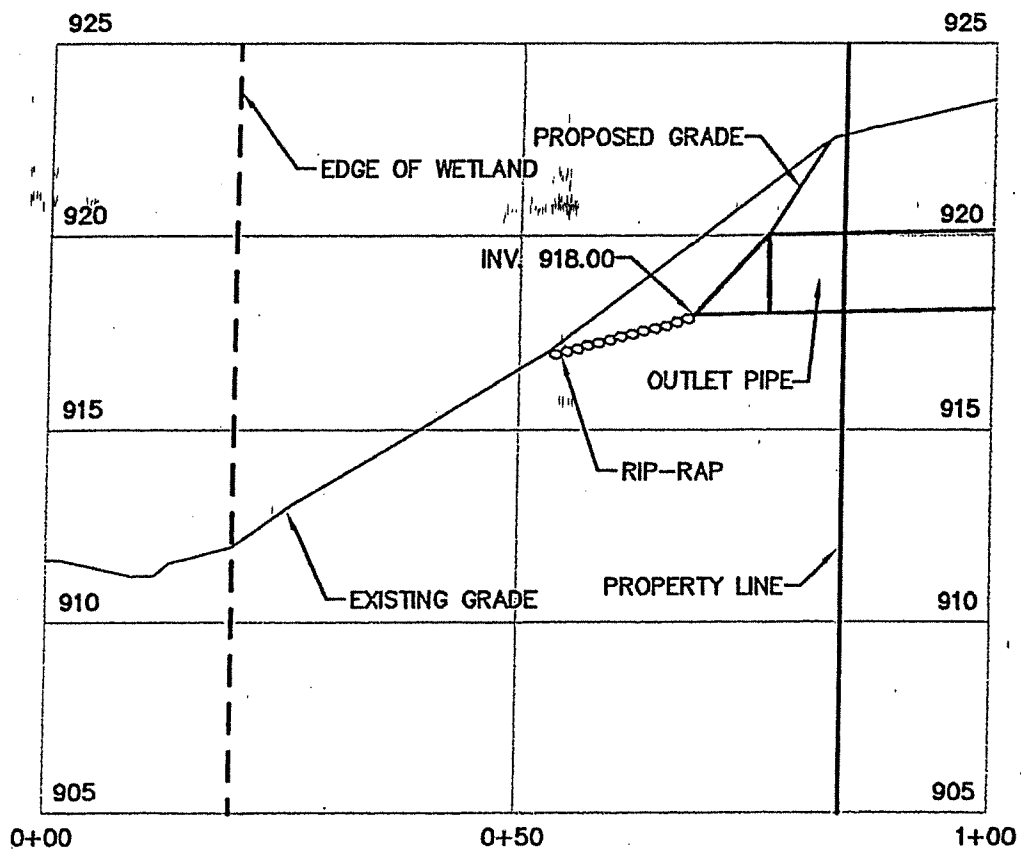
STORMWATER DISCHARGE IN WETLAND

PLAN VIEW

SCALE: 1" = 80'

(BWA FILE NO. 04-036)

FIGURE 8



STORMWATER DISCHARGE IN WETLAND
ENGINEER'S CROSS-SECTION VIEW

SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

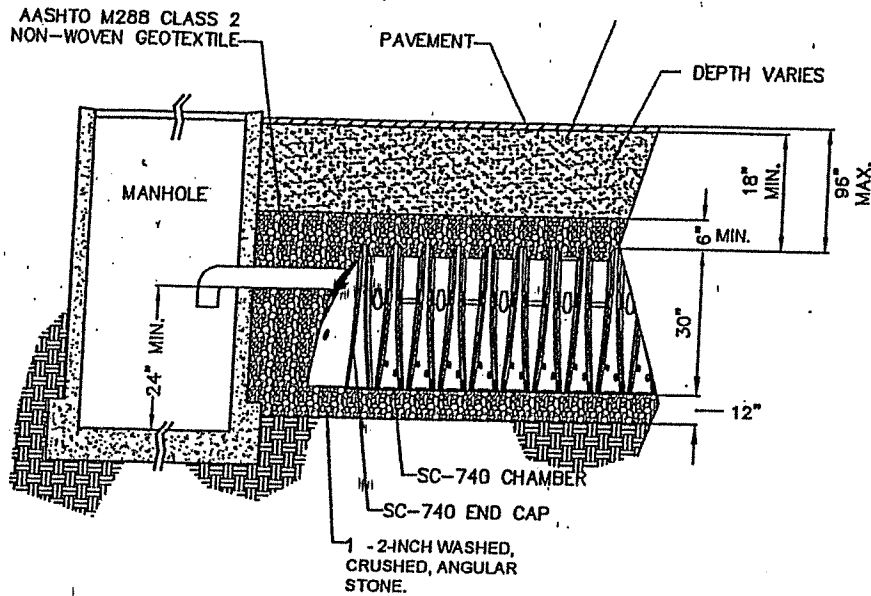
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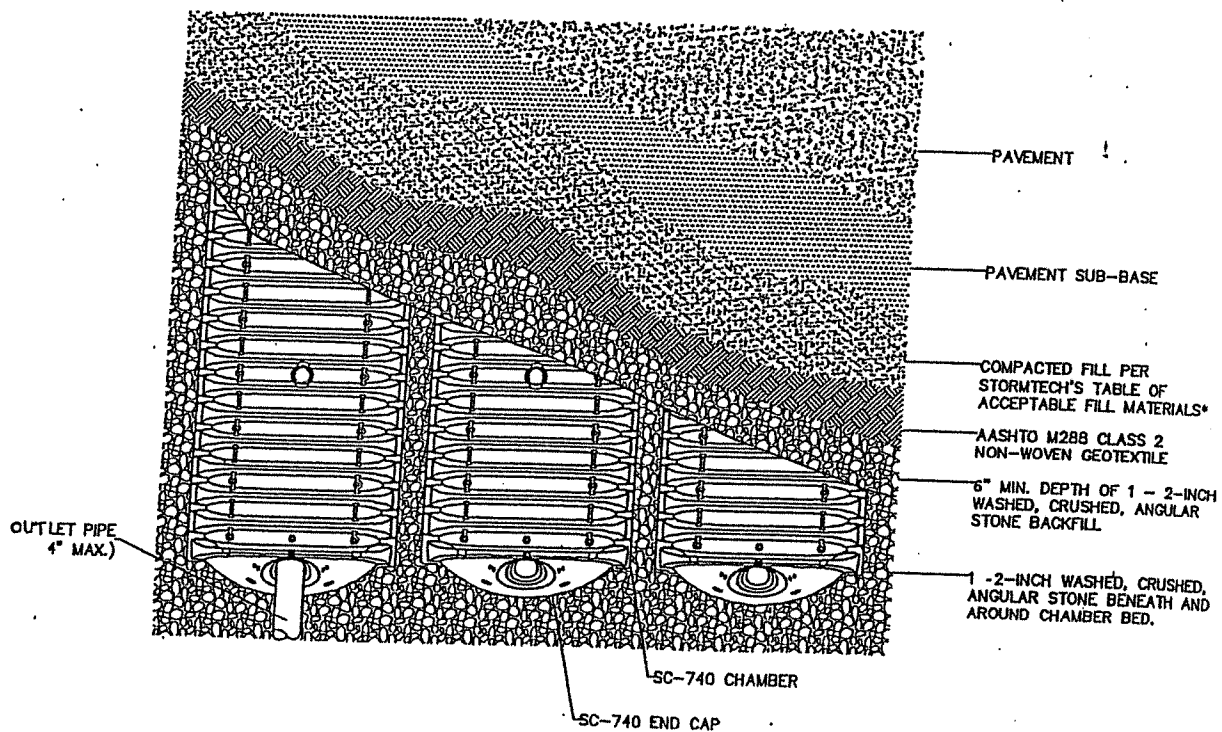
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FIGURE 9



STORMTECH SC-740 INLET/OUTLET D



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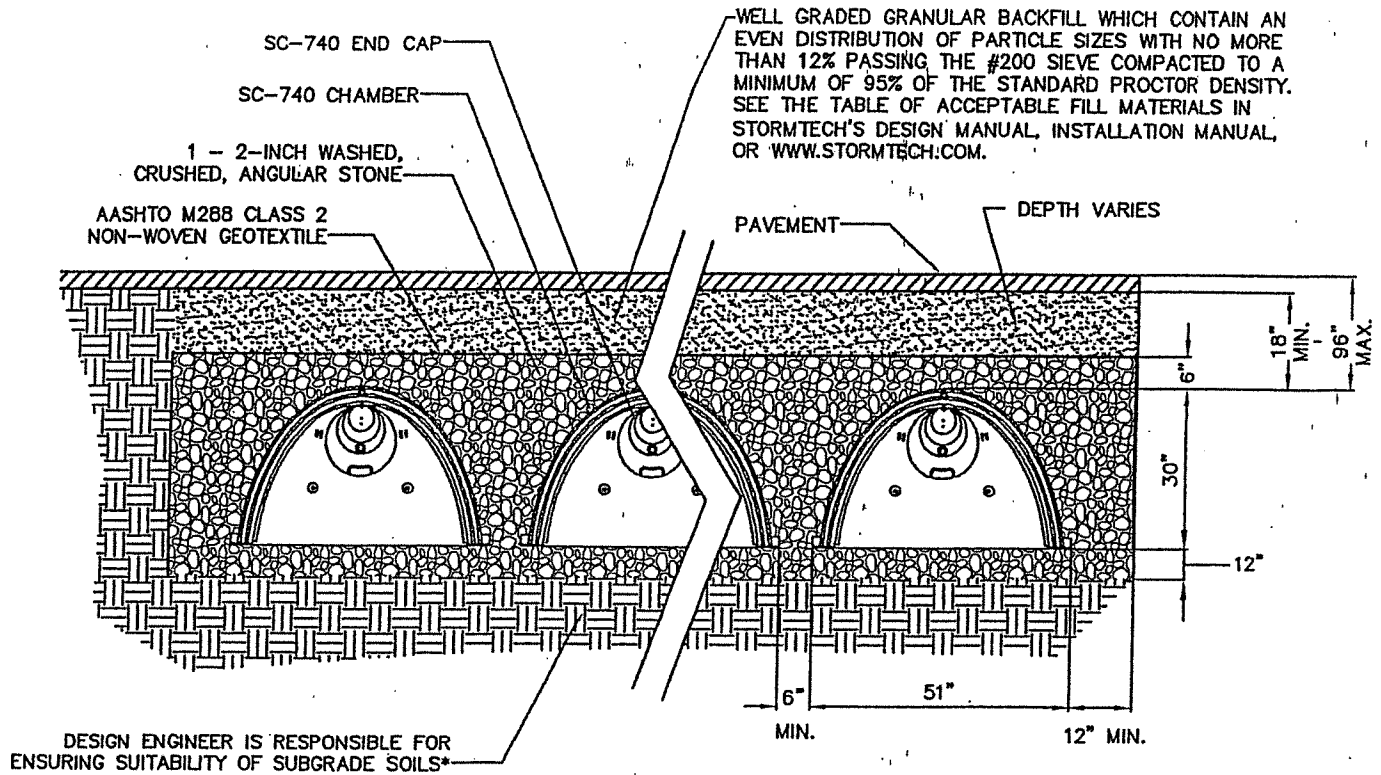
UNDERGROUND STORMWATER DETENTION

ENGINEER'S PLAN VIEW AND OUTLET DETAIL

NO SCALE

(BWA FILE NO. 04-036)

FIGURE 10



STORMTECH SC-740 CROSS SECTION

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UNDERGROUND STORMWATER DETENTION

ENGINEER'S CROSS-SECTION VIEW
NO SCALE

(BWA FILE NO. 04-036)

FIGURE 11