### City of Portland **Development Review Application** Planning Division Transmittal form

**Application Number:** 

10-79900030

**Application Date:** 

9/03/10

Circulated 9.8.10

**Revision 1:** 

10.12.2010

Circulated 10.13.2010

**Project Name:** 

DOUGHERTY FLD. IMPROV.

Address:

91 Douglass St

CBL: 066 - A-002-001

**Project Description:** 

Dougherty Field Improvements Phase 1; Douglass/St. James Street;

City Of Portland, Applicant.

Zoning:

ROS

Other Reviews Required:

**Review Type:** 

LEVEL II subject to rec'ing add'l information that confirms (has been

re'cd 9.22.2010)

**Applicant:** 

Troy Moon, DPS 55 Portland Street

Portland Me 04101

Applicant:

Woodard & Curran, David Senus

41 Hutchins Drive Portland Me 04101

### **Distribution List:**

Planner	Jean Fraser	<sup>'</sup> □Parking	John Peverada
ZoningAdministrator	Marge Schmuckal	Design Review	Alex Jaegerman
Traffic	Tom Errico	Corporation Counsel	Danielle West-Chuhta
Stormwater	Dan Goyette	Sanitary Sewer	John Emerson
Fire Department	Keith Gautreau	Inspections	Tammy Munson
City Arborist	Jeff Tarling	Historic Preservation	Deb Andrews
☐ Engineering	David Margolis-	Outside Agency	
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		DRC Coordinator	Phil DiPierro

ect the law of law of the skale of skale of the skale of Project has been fine-tuned in conjunction with DPS and Rec & Arts and these plans reflect their updates as well as responses to our comments. This is an Administrative Review.

Comments (as final as poss) by: October 20th, 2010 please.



Strengthening a Remarkable (11), Building a Community for Life

n was positional matter on

Planning & Urban Development Department Penny St. Louis Littell, Director

Planning Division
Alexander Jaegerman, Director

November 19, 2010

Ethan Owens Recreation and Facilities Management City of Portland 134 Congress Street Portland ME 04101

**Project Name:** 

Dougherty Field Improvements Phase 1

City of Portland, Applicant.

Project ID:

10-79900030

CBL: 066-A-002-001

**Project Address:** 

Douglas Street/ St. James Street

Planner:

Jean Fraser

Dear Ethan:

On November 18, 2010, the Portland Planning Authority approved a Level II site plan for the Dougherty Field Improvements Phase 1, comprising realignment and rehabilitation of existing baseball and softball fields; parking lot redevelopment; path and sidewalk installation; playground installation; landscaping improvements; and interim and final stabilization of the Skate Park perimeter area.

The Dougherty Field Improvements Phase 1 are detailed in the approved plans as submitted by the applicant and prepared by Woodard & Curran: *Grading and Utility Plan* Sheet 2 11/09/2010; *Skate Park Area Grading and Drainage Plan* Sheet 3 11/09/2010; *Layout Plan* Sheet 4 11/09/2010; *Landscape Plan* Sheet 5 10/12/2010; *Details* – 1 Sheet 6 10/12/2010; *Details* – 2 Sheet 7 11/09/2010 and *Details* – 3 Sheet 8 10/12/2010.

The proposals described above are approved with the following conditions:

That the applicant shall file a Stormwater Permit by Rule and Notice of Intent to Comply with the Maine Construction General Permit to the MaineDEP for disturbance of over an acre prior to any work commencing on site; and

ii. That if the final grading in the vicinity of the SkatePark associated with the Dougherty Field Improvements Phase 1 is not commenced by April 15, 2010, then all exposed soil areas shall be treated with temporary seeding and additional straw mulch and matting, as necessary to stabilize the area around the SkatePark; and

iii. That a final placement and density of the proposed trees and planting (as shown on Landscape Plan Sheet 5 of 9) in the vicinity of the SkatePark shall be agreed with the City Arborist "in-the-field" once the SkatePark is constructed, and

389 Congress Street · Portland, Maine 04101-3509 · Ph (207) 874-8721 or 874-8719 · Fx 756-8258 · TTY 874-8936

i. That

iv. That if any new lighting or buildings are proposed, an amended site plan shall be submitted for review and approval by the Planning Authority prior to the issuance of any applicable city permits, and separate permits are required for any new signage.

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  work has commenced within one (1) year of the approval. Requests to extend
  approvals must be received before the one (1) year expiration date.
- 4. <u>Final Plan Meeting Conditions of Approval:</u> Seven (7) final sets of plans must be submitted to and approved by the Planning Division and Public Services Department prior to the release of a building permit, street opening permit or certificate of occupancy for site plans. If you need to make any modifications to the approved plans, you must submit a revised site plan application for staff review and approval.
- 5. <u>Inspection Fee:</u> An Inspection Fee of \$300 is required for the site inspections conducted by the Planning Division.
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The Development Review Coordinator must be notified five (5) working days prior to the date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. All site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions, please contact Jean Fraser at (207) 874-8728.

Sincerely,

Alexander Jaegerman 33

Planning Division Director

### **Electronic Distribution:**

Penny St. Louis Littell, Director of Planning and Urban Development Alexander Jaegerman, Planning Division Director Barbara Barhydt, Development Review Services Manager Jean Fraser, Planner Philip DiPierro, Development Review Coordinator Marge Schmuckal, Zoning Administrator Tammy Munson, Inspections Division Director Gayle Guertin, Inspections Division Lannie Dobson, Inspections Division Michael Bobinsky, Public Services Director Katherine Earley, Public Services Bill Clark, Public Services David Margolis-Pineo, Deputy City Engineer Greg Vining, Public Services John Low, Public Services Jane Ward, Public Services Keith Gautreau, Fire Jeff Tarling, City Arborist Tom Errico, TY Lin Dan Goyette, Woodard & Curran Assessor's Office Approval Letter File

Hard Copy: Project File

Devid Senus, Woodard & Curran

### Jean Fraser - Re: Dougherty Field

From:

**Ethan Owens** 

To:

Barbara Barhydt; Sally Deluca

Date:

9/8/2011 10:08 AM Subject: Re: Dougherty Field

CC:

Eric Labelle; Jean Fraser; Thomas Errico

Hi Jean and Barbra.

Thank you for the offer to assist in the parking lot review but upon further reflection. I think we will just go on as the plan is currently drawn. We have so much on our plates and I know the construction company does too so I don't want to hold things up. After the completion of this phase, maybe we will enlarge it further in some other phases. But thanks again.

Have a great day,

**Ethan Owens** Certified Playground Safety Inspector Athletic Facilities, Playground & Courts Manager Recreation Department ~ City of Portland 134 Congress St Portland, Maine 04103 ~ USA 207-756-8275/Fax 207-756-8279 eowens@portlandmaine.gov

>>> Barbara Barhydt 9/8/2011 8:59 AM >>>

Jean gave me an update on your project yesterday. I understand that revisions to the parking lot are being considered. The proposed changes appear to be more than a minor adjustment. We are willing to consider those changes, but we do need to have a revised plan so it can be reviewed for safety, circulation and landscaping by the traffic engineer, DPS and Planning. We are willing to schedule a meeting to discuss the options, prior to revising the plans, if you would like. Just let us know.

Thank you.

Barbara

Barbara Barhydt Development Review Services Manager Planning Division 389 Congress Street 4th Floor Portland, ME 04101 (207) 874-8699 Fax: (207) 756-8256 bab@portlandmaine.gov

### Jean Fraser - Re: Dougherty Field Alterations

From: Jean Fraser
To: Owens, Ethan

**Date:** 9/7/2011 12:19 PM

**Subject:** Re: Dougherty Field Alterations

CC: Deluca, Sally; Labelle, Eric

#### Ethan

The proposed <u>changes to the parking lot - (2) below</u> are not "small" - they are quite substantial and cannot be dealt with by e-mails. Please do not proceed with any changes to the approved plans until you have submitted another (revised) plan and it has received formal approval.

We need a detailed plan (prepared by an engineer and to scale) that shows the revised parking layout, that it meets the city's technical standards (section 1- its on the city's website), indicates how the drainage will be revised, and shows the locations of trees and how they will protected if within a paved area. It should also show how pedestrians will be protected from cars ie there may need to be a guardrail alongside the sidewalk -- and there are other questions that must be clarified to ensure this meets safety and other site plan requirements (including re trees).

I don't believe that parallel parking along the side of the drive aisle will be allowed as it is not safe-but angled parking may work here (because its one way) and give more additional parking. If angled parking can fit here then islands at the ends/between the parking spaces could be introduced for some trees. You need to arrange for someone to do a scaled detailed drawing and get it sent to me by pdf.

Otherwise it may be best to leave the plan as is and add in the trees in the esplanade- I understand there is considerable street parking in this area.

Jeff has sent the following comments on 9.2.2011 before he left for vacation-- he would also review any plan of the revised parking lot (along with the traffic engineer who reviews site plans):

Hi Jean -

Wanted to weigh in on the Dougherty Field parking lot discussion, we have talked about a few options recently 'in-the-field' between Public Services Construction, Ethan Owens from Recreation, Eric Labelle and myself about parking lot adjustment.

My preference would be to have street-trees along the parking lot between the street and parking area. Ideal spacing would be roughly 45'. This would continue the existing tree line that starts at Douglas Street to the Skatepark. These trees would help screen the industrial / commercial use across the street to the existing residential homes on Douglas Street.

While I do see the value in the added parking spaces for this busy site, street-trees should be included in this plan. Currently I do not have a copy of the original landscape plan, so I would refer to the landscape plan as approved or to add street trees into any changes.

Thanks, I am on vacation until the 12th -

Jeff Tarling

I am wondering if we need to get everyone in the same room on this to resolve a final solution as public safety and a park amenity is at issue- to include me, you and others from your department - plus Eric Labelle, Jeff Tarling, Phil diPierro, the Traffic Engineer Reviewer and others ... I am happy to do what I can to get this resolved quickly.

Please call if you want to discuss

thanks Jean

874 8728

PS Your (1) is OK and I will send a separate e-mail re that.

>>> Ethan Owens 9/7/2011 11:36 AM >>> Hi Jean,

Here is a break down of some small changes at the Dougherty Field project.

- 1) The 10' wide grass path from the parking lot down to the fields will just eliminated and the same smooth contour or slope all the way across will be applied. It looks better and functions better for maintenance. I don't want to encourage anyone to drive down there either. The sloped bank makes a very nice perch for families to sit and watch the games so I don't want to break that up.
- 2) The parking issue is a monster here, the need for parking is a large one. There is other parking lots planned in later phases but by eliminating a 8 foot strip of "never going to grow' grass and extend the asphalt to the edge of the new sidewalk we can add 8 to 10 more spaces. We will also add two maybe three new trees in that space one on each end and maybe one in the middle.

Have a great day,

Ethan Owens
Certified Playground Safety Inspector
Athletic Facilities, Playground & Courts Manager
Recreation Department ~ City of Portland
134 Congress St
Portland, Maine 04103 ~ USA
207-756-8275/Fax 207-756-8279
eowens@portlandmaine.gov

### Jean Fraser - Re: Dougherty Fields- 10 ft grass access walkway

From: To:

Ethan Owens Jean Fraser

Date:

8/31/2011 2:18 PM

Subject: Re: Dougherty Fields- 10 ft grass access walkway

CC:

Eric Labelle; Gordon Greenlaw; Jeff Tarling; Philip DiPierro; Sally ...

### I see Jean.

1) No - the grass path down from the parking lot was a mistake form the beginning. But it kept showing up on the new and then the new and then the new drawings. From a maintenance, construction and functionality point of view it is useless. To keep the same taper and slope all across that plane from the parking lot down to the fields, will provide a pleasant seating area, easy grass growing and maintaining location with less contours to scalp and after talking with Jeff yesterday - a nice platform to install a few shade tress. 2) The main problem I see with the spit of grass between the parking lot and the sidewalk is maintenance and wasted parking space. Jeff and I designed a simple system for that edge after talking with Gordie and I will send that to you and Phil shortly. Basically you would have a the parking lot go right to the sidewalk with several protective tree wells installed.

After walking the site with my dept folks this afternoon, we are in agreement so I will get the proper paperwork to you.

Have a great day,

**Ethan Owens** Certified Playground Safety Inspector Athletic Facilities, Playground & Courts Manager Recreation Department ~ City of Portland 134 Congress St Portland, Maine 04103 ~ USA 207-756-8275/Fax 207-756-8279 eowens@portlandmaine.gov

>>> Jean Fraser 8/31/2011 10:48 AM >>> Ethan

I was not referring to this area; I was referring to the sketch attached in an e-mail to Molly Casto dated 8.23.2011 regarding a curved walkway that goes out from the parking lot towards the ball fields- in that e-mail you stated: ""Nor do we want that 10' road from the parking lot. It was never suppose to be there and..."

David Senus confirmed this morning that this walkway was requested by you during the design development to allow maintenance for the ball fields- he will call you re that.

So I think there are 2 revisions to the plan that need to be clarified and documented:

- 1. the curved grassed walkway
- 2. area between parking lot and sidewalk that you have been discussing with Jeff

Thanks Jean

>>> Ethan Owens 8/30/2011 10:33 PM >>>

Jean, it has been just conversation to this point as I mentioned on the voicemail. But as the manger of this project and the public services construction crew working for us on this, we are not happy with that detail between the parking lot and sidewalk. Jeff Tarling and I have been discussing a change of the 9' swath of grass that would never live or grow and just extend the parking lot to the sidewalk. Also adding tree wells along the edge of the parking lot. Once we have made a decision I will get in touch with you just like I did about the path surface change. I didnt want to be premature with this.

Have a great day,

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>>> Jean Fraser 08/30/11 15:30 PM >>> Ethan

It has been brought to my attention that you do not want to implement a feature shown on the approved site plans (shown on 3 plans within the approved plan set, marked as "10 ' wide grass access" leading from the parking lot on St James towards the baseball diamonds).

This would be considered a "di minimus" change to the approved site plan and just be documented with an e-mail from me confirming the Planning authority approval. It would be good if someone could send a sketch of the final grading for the record or in case there is an objection from the public (several members of the public viewed these site plans).

We are happy to send that e-mail, but I just want to clarify- it was my understanding that this "walkway" (flatter width of grass with a more gentle slope) would create areas for easier viewing of the baseball diamonds (by sitting on the grass on the slope) and make it more accessible for people pushing baby buggies/pushchairs coming from the parking lot to watch a game. It seems to be quite purposeful in design. However, I understand you may feel this benefit is outweighed by the future mowing issues or the re-grading bringing it too near the baseball.

Please confirm or send a sketch of the revised grading and I will confirm re the site plan di minimus approval.

### Jean Fraser - Re: Dougherty Fields- 10 ft grass access walkway

From:

Jean Fraser

To:

Owens, Ethan

Date:

8/31/2011 10:48 AM

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CC:

DiPierro, Philip; Greenlaw, Gordon; Labelle, Eric; Tarling, Jeff

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Please confirm or send a sketch of the revised grading and I will confirm re the site plan di minimus approval.

thanks Jean

Jean Fraser, Planner City of Portland 874 8728

### Molly Casto - Structure

From:

Ethan Owens

To:

Eric Labelle; Gordon Greenlaw

Date:

8/23/2011 11:15 AM

Subject:

Structure

Attachments: IMG 1058.JPG; IMG 1059.JPG; For PS 1.png

### Guys,

I do not want that structure over the survey mark. Nor do we want that 10' road down from the parking lot. It was never suppose to be there and I was told instead of changing the drawings it would be an infield decision.

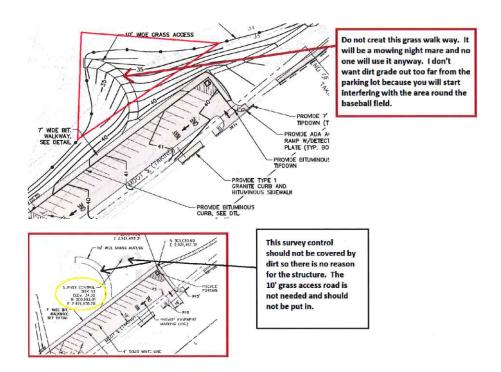
The way the dirt from the enlarged parking lot is now - it actually pretty good. Maybe a little more and a smooth out but it doesn't need to be graded back anymore. The end line now is good enough. It will make a good hill to sit on, will drain well and won't encroach out to the baseball field area too much. Please see the drawings.

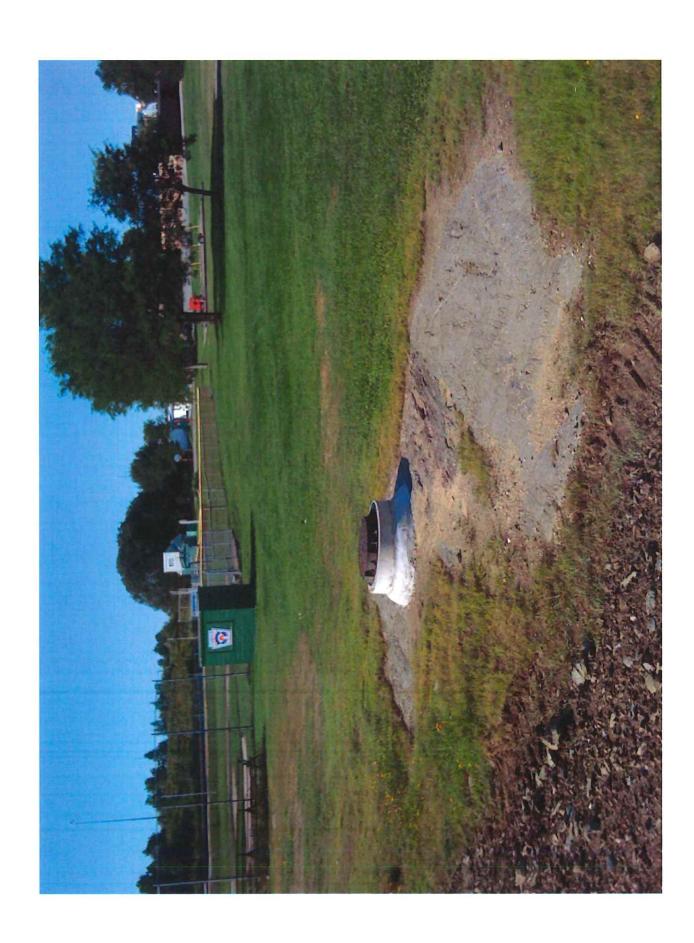
Gordie - please give me shout first thing Monday when your back and we can go over these things.

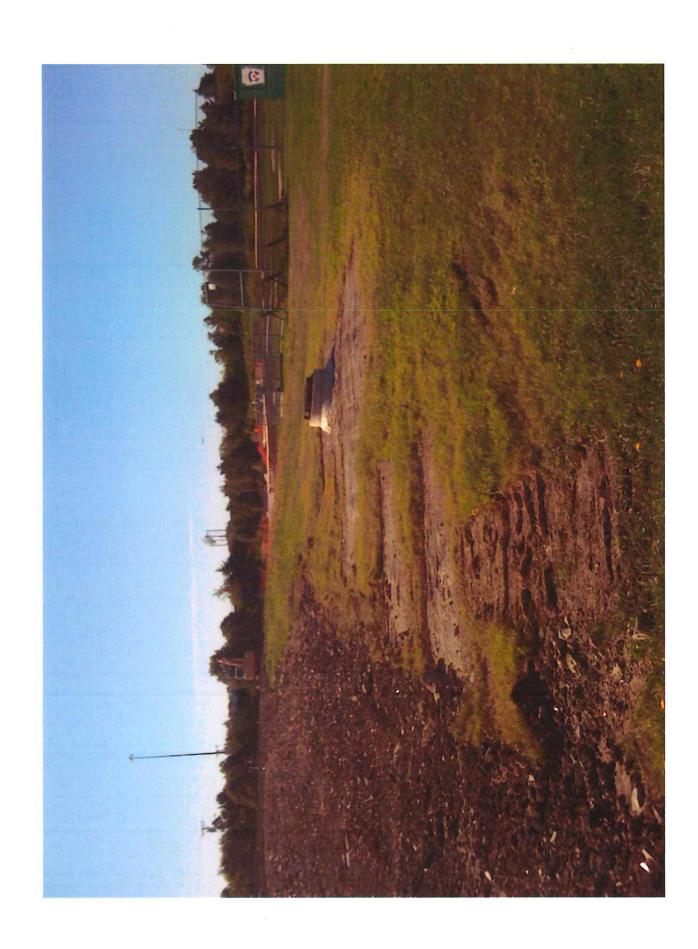
The roughing out of the baseball field is going well so far and we have trucks of materials coming over from Ocean Ave.

Have a great day,

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### Jean Fraser - Dougherty Fields approval & Inspection fee

From:

Jean Fraser

To:

Barhydt, Barbara; DiPierro, Philip

Date:

12/16/2010 11:56 AM

Subject:

Dougherty Fields approval & Inspection fee

Attachments:

APP LTR Dougherty Field Imp. Phase 1 #10-79900030.pdf

Barbara and Phil

I recall that the Skate Board park did not have a precon meeting and there have been issues.

So I am being a bit cautious re this other part of the project, especially as it affects the ROW and covers a large part of the fields in terms of impacts.

We had requested a \$300 Inspection Fee for Planning Inspections in the approval letter (copy attached) but it does not say when that needs to be paid. NO PG.

Anyway, I suggest that I circulate the Stamped Approved Plans to all as usual but add a note on them saying that start on site is subject to BP, payment of Inspection Fee and completion of precon meeting so all are alerted to status.

DPS will be doing the work in the spring; apparently they have funding.

OK???

Jean

- this not urgent as understood work to start Spring 2011.

19 Absessors
19 Anspections
19 Annua file
11 17 Seff Tarling
11 x 17. File

associative fre



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Planning & Urban Development Department Penny St. Louis Littell, Director

Planning Division
Alexander Jaegerman, Director

November 19, 2010

Ethan Owens
Recreation and Facilities Management
City of Portland
134 Congress Street
Portland ME 04101

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City of Portland, Applicant.

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CBL: 066-A-002-001

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Planner:

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If there are any questions, please contact Jean Fraser at (207) 874-8728.

Sincerely,

Alexander Jaegerman
Alexander Jaegerman
33

Planning Division Director

### **Electronic Distribution:**

Penny St. Louis Littell, Director of Planning and Urban Development Alexander Jaegerman, Planning Division Director Barbara Barhydt, Development Review Services Manager Jean Fraser, Planner Philip DiPierro, Development Review Coordinator Marge Schmuckal, Zoning Administrator Tammy Munson, Inspections Division Director Gayle Guertin, Inspections Division Lannie Dobson, Inspections Division Michael Bobinsky, Public Services Director Katherine Earley, Public Services Bill Clark, Public Services David Margolis-Pineo, Deputy City Engineer Greg Vining, Public Services John Low, Public Services Jane Ward, Public Services Keith Gautreau, Fire Jeff Tarling, City Arborist Tom Errico, TY Lin Dan Goyette, Woodard & Curran Assessor's Office Approval Letter File

Hard Copy: Project File

David Senus, Woodard & Curran

### **Jean Fraser - Plans re Dougherty Fields Improvements**

From:

Jean Fraser

To:

DSenus@woodardcurran.com

Date:

11/24/2010 12:38 PM

Subject:

Plans re Dougherty Fields Improvements

CC:

Owens, Ethan

### David,

The approval letter should have included Sheet #9 (9/3/2010) but because it was not in the October submission I missed it out. We don't always reference each plan in the approval letter and I will include that for "stamping" when I circulate the approved plan sets. Its important because it is referred to in the note on sheet 3.

Although the approval letter mentions 7 sets of plans, please send 5 scaled paper sets of the final plans (ie 5 plan sets with sheets 1-9 included, each being the final approved version plus sheet 9)- also could you send me Sheets 1, 5, 6, 8, and 9 by pdf, same latest (as approved) revisions.

These will be stamped and circulated to the 3 Inspectors, planning file, and one goes to archives and assessors, etc.

thank you Jean

# City Project

### MINOR SITE PLAN DEVELOPMENT REVIEW

Final review and sign off Phase 1 (Excl Steate Park - ithous separate approval)

PROJECT: Doughery fields [MPS Application #: HTE 10-79900030

Date of completion: NOO 17, 2010

Review item	Status	Who signed off on this
Evidence of Right, Title & Interest	Deeds and Stamped Survey.	**Constitutional
MDEP/MP etc issues	reeds Stormanter PBR.	
Additional info provided as requested:	distribance total miproved eidewalks intes/materials) widths.	rec'd 11-9-10
Access and parking layout (including contributions)	Extensive improvements to pkg area incl. dramage + ped access.	Tom Errio emais + Devlew 11-17
Bicycle parking	A sets of butto rocks incorporated - no stone Ros	J-
Stormwater Management	an ok; At Palmer reviewed+	AP 11-18-10
Other engineering issues	DPS has signed off since plans now reused to dispersion	David M-P ments 11-09-10.
Zoning	OK	MS11-16-10.
Fire Department	OK	11-16-10
Building materials etc	N/R - no buildings	
Landscape	OK - Rev. by self Tarinia	11-4-10
Two trees/lot; two foundation plantings per lot	N/R.	
Lighting	Enty Project	
Letter of financial capability	Erty Project	
Capacity letter water	NOT Relevant	
Capacity letter sewer	Not relevant	
Sidewalk/Curbing	new sechou of concrete Endewark underded to ful gaps	
Dumpster location and enclosure/waste collection	none shown.	
Other issues	link to Skate Park area service franche franche franche area is uncle	e for
	that area is uncle	ideal.

### Jean Fraser - RE: Final check re Dougherty Fields

From:

Al Palmer <APalmer@gorrillpalmer.com>

To:

Jean Fraser < JF@portlandmaine.gov>

Date:

11/17/2010 5:56 PM

Subject: RE: Final check re Dougherty Fields

I don't see the need for any special conditions of approval.

Thanks,

Al

**From:** Jean Fraser [mailto:JF@portlandmaine.gov] **Sent:** Wednesday, November 17, 2010 4:53 PM

To: Al Palmer

Subject: Final check re Dougherty Fields

Αl

On Nov 15th I sent you the final revisions on this project; I am not sure it warrants a full paper set being sent but the cover letter (which you saw last week) addresses your 11.3.2010 comments.

I just wanted to check (approval letter going out tomorrow-ish) whether you felt there needed to be any conditions of approval included ...

thanks Jean

### Jean Fraser - RE: Dougherty Field Site Plan Comments / Response Letter

From:

Al Palmer <APalmer@gorrillpalmer.com>

To:

Jean Fraser <JF@portlandmaine.gov>, David Margolis-Pineo <DMP@portlandma...

Date:

11/9/2010 2:55 PM

Subject: RE: Doughe

RE: Dougherty Field Site Plan Comments / Response Letter

CC:

Barbara Barhydt <BAB@portlandmaine.gov>, Michael Farmer <Mfarmer@portlan...

The response relative to the running slope of the walkway and it's width is acceptable to us.

Thanks,

Al Palmer

**From:** Jean Fraser [mailto:JF@portlandmaine.gov] **Sent:** Tuesday, November 09, 2010 1:41 PM

To: Al Palmer; David Margolis-Pineo; Marge Schmuckal; Thomas.Errico@tylin.com

Cc: Barbara Barhydt; Michael Farmer

Subject: Fwd: Dougherty Field Site Plan Comments / Response Letter

### To all reviewers:

Tomorrow is the final review on this; I have agreed with David Senus that he will send the "final" revised plans after I get final comments from David Margolis-Pineo and Marge Schmuckal.

In the meantime I am forwarding David Senus' letter where he responds to Al Palmer's comments about the grade where the trail goes up to the play equipment- I would like to discuss this at tomorrow's Dev Rev (where we will have a scaled plan of the other revisions for reference if needed.

Al- pl let me know if you are convinced.....

thanks Jean

>>> "David Senus" <dsenus@woodardcurran.com> 11/9/2010 12:58 PM >>>

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Per our discussion, attached is a comment / response letter addressing the latest comments received from Site Plan review of the Dougherty Field Improvements Project. I will send one full size set of updated plans with Dan Goyette for tomorrow's meeting. I will only send plans that have new info. We have put REV clouds around all new/updated info, and we've explained each plan edit in the attached letter.

Please don't hesitate to call if you have any questions.

Thanks, Dave Senus

David Senus, PE, Project Manager Woodard & Curran, Inc. 41 Hutchins Drive Portland, ME 04102 Phone: (800) 426-4262 x3241

Fax: (207) 774-6635

Woodard & Curran www.woodardcurran.com Commitment & Integrity Drive Results 41 Hutchins Drive Portland, Maine 04102 www.woodardcurran.com T 800.426.4262 T 207.774.2112 F 207.774.6635



November 9, 2010

Jean Fraser, Planner City of Portland Planning Office 389 Congress Street Portland, ME 04101

Re: Dougherty Field Improvements Level II Site Plan Application Response to Comments

Dear Jean:

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## COMMITMENT & INTEGRITY DRIVE RESULTS

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r. Markershare



### Additional review comment relayed to Design Team

Comment: The plans called for a 5' wide sidewalk along the edge of the St. James Street parking lot. Angled-in vehicle parking may overlap this sidewalk by a couple feet, reducing the passable sidewalk area to only 3' in width. Suggest widening sidewalk to 7' to account for vehicle overhang.

Response: Plans have been updated to include a 7' wide sidewalk in this area, see Sheets 2 and 4.

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With regard to the concern over pathway width, we feel that the proposed 4' wide path is appropriate for these connections. It differentiates these connections from the interior main pathway, which is designed at 5' wide. The intent is to provide a visible entry path to the playground that blends well with the surrounding landscape and that has a "spur trail" look, as compared with the main pathway.

We look forward to working with you and receiving Site Plan approval for the Dougherty Field Improvement project. Please feel free to call at anytime if you have any questions or comments.

Sincerely,

WOODARD & CURRAN INC.

David Senus, PE Project Manager

DAS/ 203939.65

Enclosures - Dougherty Field Improvements Site Plan Application Drawings, Sheets 2, 3, 4 and 7

Ethan Owens, Sally Deluca, Troy Moon; City of Portland CC:



### Zoning Administrator Marge Schmuckal

See Zoning Assessment

November 10, 2010

This project is located within the ROS or Recreational Open Space Zone. That zone permits municipal parks, public open spaces, picnic areas, playgrounds and play lots, along with outdoor ball fields and public athletic fields. The proposed uses are meeting the listed permitted uses of the ROS.

There are no new structures that I have seen on the proposal. There are no specific setbacks for the above listed uses.

All the zoning requirements of the ROS zone are being met.

### Jean Fraser - Re: Dougherty Field Site Plan Comments / Response Letter

From:

Jean Fraser

To:

Senus, David

Date:

11/10/2010 5:05 PM

Subject:

Re: Dougherty Field Site Plan Comments / Response Letter

### David,

At the Development Review discussion this AM we considered the comments in your letter re the path and that is acceptable; we did not look at every detail so I suggest you send the letter formally with another 2 sets of scaled plans so I can formally complete the review and hopefully issue the approval letter.

I personally (as a mother) do not understand (since a pine tree is being taken as part of the regrading anyway) why the path near the play area could not follow the contours and be gentler so that people with strollers and babies in arms (elderly!) do not have to negotiate that steep slope when they want to stroll from the play area around the inner walkway. Also anyone who wants to get from that end of St James to the inner walkway would have to use that path and it seems an unnecessary danger for folks, particularly in the colder months. But this is not a formal comment just an personal aside.

I am not in on Friday but the plans can be left for me then. The offices are closed tomorrow.

Jean

>>> "David Senus" <dsenus@woodardcurran.com> 11/9/2010 12:58 PM >>>

### Hello Jean:

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Please don't hesitate to call if you have any questions.

Thanks, Dave Senus

David Senus, PE, Project Manager Woodard & Curran, Inc. 41 Hutchins Drive Portland, ME 04102 Phone: (800) 426-4262 x3241

Fax: (207) 774-6635

Woodard & Curran www.woodardcurran.com Commitment & Integrity Drive Results ----Original Message----

From: Jean Fraser [mailto:JF@portlandmaine.gov] Sent: Wednesday, October 27, 2010 3:39 PM

To: David Senus

Cc: Regina S. Leonard; Tom Errico (TY Lin); Dan Goyette

Subject: Re: Dougherty Field Comment - Sidewalk on south edge of parking

lot

David,

It seems to me there would be a desire line at this point and best to address it .... I think a widened access drive with a striped "sidewalk" into the park might be adequate but will let Tom comment on that re safety.

Tom- what do you think? I suggest you discuss the issues and constraints etc with David and bring it back to Dev Rev next week with a recommendation.

Also this is a good opportunity for me to mention that if any new sections of sidewalk are proposed to be asphalt, the waiver from concrete material needs to be determined by the City Council. Also, as per our usual protocol, I will be writing a comprehensive review letter next week that will confirm the final comments on all issues; it will include Tom Errico's request for a STOP sign to be added for movements exiting the parking lot and truncated domes to be installed on each sidewalk ramp at each driveway to the parking lot.

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>>> "David Senus" <dsenus@woodardcurran.com> 10/27/2010 2:13 PM >>>

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From:

"David Senus" <dsenus@woodardcurran.com>

To:

"Jean Fraser" < JF@portlandmaine.gov>

CC:

"Sally Deluca" <SLD@portlandmaine.gov>, "Ethan Owens" <EOWENS@portlandma...

Date:

11/9/2010 12:57 PM

Subject:

Dougherty Field Site Plan Comments / Response Letter Attachments: 2010.11.09 Planning Comments Response, Ltr.pdf

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David Senus, PE Project Manager

DAS/ 203939.65

Enclosures – Dougherty Field Improvements Site Plan Application Drawings, Sheets 2, 3, 4 and 7

cc: Ethan Owens, Sally Deluca, Troy Moon; City of Portland

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DAS/ 203939.65

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cc: Ethan Owens, Sally Deluca, Troy Moon; City of Portland

#### Jean Fraser - RE: Dougherty Field Comment - Sidewalk on south edge of parking lot

**From:** Thomas Errico < Thomas. Errico @tylin.com>

To: Jean Fraser <JF@portlandmaine.gov>, David Senus <dsenus@woodardcurran.com>

**Date:** 10/28/2010 8:38 AM

Subject: RE: Dougherty Field Comment - Sidewalk on south edge of parking lot

CC: "Regina S. Leonard" <regina@rsldesign.com>, Dan Goyette <DGoyette@woodar...

Jean/David – I also believe that there will be a desire path from the St. James Street sidewalk to areas of Dougherty Field near the skateboard park. I'm not supportive of a painted sidewalk in the parking lot.

I'd be glad to chat with you if you want to discuss options.

Thomas A. Errico, PE
Senior Associate
Traffic Engineering Director
TY-LININTERNATIONAL
12 Northbrook Drive
Falmouth, ME 04105
207.347.4354 direct
207.400.0719 mobile

207.400.0719 mobile 207.781.4753 fax thomas.errico@tylin.com Visit us online at www.tylin.com

"One Vision, One Company"
Please consider the environment before printing.

From: Jean Fraser [mailto:JF@portlandmaine.gov] Sent: Wednesday, October 27, 2010 3:39 PM

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Dan Goyette passed along the comment regarding a lack of sidewalk at the south edge of the parking lot area connecting St. James street to the parking lot sidewalk. The parking lot is designed with a reverse crown (center drainage) and stormwater will flow across this proposed sidewalk location. To provide a raised sidewalk in this area, we would need to install a catch basin with piping to an outfall beyond the sidewalk or a sidewalk culvert (see attached photo), which has some winter maintenance concerns. Ledge is high in this area, and therefore I am concerned about a catch basin and piping at this location. The other option is to offset the sidewalk to the south from the parking lot, and install a culvert below the sidewalk. And then there is yet another option for an 'at-grade' sidewalk delineated by pavement markings. This would cross the drainage point for the parking lot. Should I discuss the topic & options directly with Tom Errico?

Thanks Dave Senus

David Senus, PE, Project Manager Woodard & Curran, Inc. 41 Hutchins Drive Portland, ME 04102 Phone: (800) 426-4262 x3241

Fax: (207) 774-6635

Woodard & Curran www.woodardcurran.com Commitment & Integrity Drive Results

#### Jean Fraser - Doughty Field

From:

Thomas Errico < Thomas. Errico @tylin.com>

To:

Jean Fraser <JF@portlandmaine.gov>

Date:

10/21/2010 11:33 AM

Subject: Doughty Field

CC:

Katherine Earley <KAS@portlandmaine.gov>, David Margolis-Pineo <DMP@port...

Jean – I have reviewed the revised plan set transmitted on October 12, 2010 by Woodard & Curran and find the plans to be acceptable with the following comments.

- A STOP sign should be added for movements exiting the parking lot.
- Truncated domes shall be installed on each sidewalk ramp at each driveway to the parking lot.

If you have any questions, please contact me.

Best regards,

Thomas A. Errico, PE Senior Associate

Traffic Engineering Director **FYLIN**INTERNATIONAL

12 Northbrook Drive Falmouth, ME 04105 207.347.4354 direct 207.400.0719 mobile 207.781.4753 fax

thomas.errico@tylin.com Visit us online at www.tylin.com

"One Vision, One Company"
Please consider the environment before printing.

Tom ok-add ui side walk link

Chanto JP's question of chanto JP's question of a parking on res. side-enforcements

#### **Jean Fraser - Doherty Field Revisions**

From:

Michael Farmer

To:

Fraser, Jean

Date:

10/20/2010 2:08 PM

Subject:

**Doherty Field Revisions** 

CC:

Bobinsky, Michael; Earley, Katherine; Margolis-Pineo, David; Moon, Troy

#### Jean:

The City Sidewalk Materials Policy Map for District 3 calls for concrete sidewalks on St. James Street (and Douglass Street). Whereas the current plans for this project indicate that hot mix asphalt sidewalk construction is proposed along St. James Street, the plans would have to be changed to conform to the Sidewalk Materials Policy.

Michael Farmer, Project Engineer Dept. of Public Services 55 Portland Street Portland, ME 04101 phone: 207-874-8845

fax: 207-874-8852

#### Jean Fraser - Dougherty Field Improvements

**From:** Al Palmer < APalmer@gorrillpalmer.com>

To: Jean Fraser <JF@portlandmaine.gov>, David Margolis-Pineo <DMP@portlandma...

**Date:** 11/3/2010 8:22 AM

Subject: Dougherty Field Improvements

CC: William Haskell < WHaskell@gorrillpalmer.com>

#### Hi Jean,

Our office has received the Planning Packet for Application Number 10-79900033, Dougherty Field Phase 1, and offer the following preliminary comments relative to the review of the storm water provisions of the Minor Site Plan Application:

- While no storm water calculations were provided, it is noted that the only increase in non-vegetated surface is associated with stone dust walkway. Therefore, no significant increase in impervious surfaces will result from the project, and we would not anticipate that any increase in storm water runoff would occur.
- The 4' wide walkway from the main trail to the "play equip" area near the pool appears to be graded in excess of a 8% running slope. Could this walkway be flattened to less than 5% to provide improved access?
- There is minimal proposed grading in the outfield areas of the baseball and softball field. It was unclear
  to our office if this area would be seeded or sodded based on Sheet 4? Based on Sheet 5, it would be
  seeded. Would sod be appropriate given the intensity of use of these fields?

Please contact us with any questions.

Thanks,

Al Palmer Senior Vice President Gorrill-Palmer Consulting Engineers, Inc. 15 Shaker Road PO Box 1237 Gray, ME 04039 (207) 657-6910 (207) 415-5903 mobile (207) 657-6912 fax www. gorrillpalmer.com

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COMMITMENT & INTEGRITY DRIVE RESULTS

41 Hutchins Drive
Portland, Maine 041 2
www:woodardcurrar\_com

T 800.426.4262 T 207.774.2112 F 207.774.6635

×3241

October 12, 2010

RECEIVED

OCT 12 2010

City of Portland Planning Division

Jean Fraser, Planner City of Portland Planning Office 389 Congress Street Portland, ME 04101

Dear Jean:

Re:

Thank you for coordinating Site Plan review of the Dougherty Field Improvements project. Woodard & Curran received comments from the City of Portland Planning Division via email from Jean Fraser to Dave Senus dated September 20, 2010. The purpose of this letter is to address these written comments, and to provide additional information to help facilitate the review of the Site Plan application.

Dougherty Field Improvements Level II Site Plan Application Response to Comments

Comments from Jean Fraser, City of Portland, Planning Division, email dated September 20, 2010

1. Info needed: At the meeting on 9.8.2010 Barbara asked for the actual figure for the area to be disturbed in order to confirm whether or not this needs to go to the Planning Board. Could you please send us that figure?

The following square footage numbers were previously sent by email dated September 21, 2010;

New trail system: 36,000 sq ft (trail = 16,000 sq ft; grading = 20,000 sq ft) New parking lot: 10,750 sq ft (existing lot = 7,900 sq ft; expansion of 2,850 sq ft)

New play area at Kiwanis: 1,400 sq ft New sidewalk along St. James: 2,000 sq ft Skate park footprint: 8,200 sq ft

Area of re-grading around Skate Park: 50,000 sq ft

Total disturbance for park improvements: 108,350 sq ft\* or 2.5 acres

\*Ball field work considered revitalization of existing fields - existing softball field & baseball field reoriented to maximize field space; leveling of any low spots in outfields.

2. Maintenance route: DPS are looking for a maintenance route between the site and the street for maintenance of catch basins and landscape at least. I think the view will be that the path between the parking lot and the Skate Park needs to be widened enough to take those vehicles (and maybe needs to be constructed differently too) so it would read as a pedestrian path but be a route for maintenance.

Woodard & Curran has discussed the maintenance route with the Recreation Department (Ethan Owens and Sally Deluca) and the Department of Public Service (John Emerson and Mike Bobinsky). Recreation and DPS indicated the preferred maintenance access route would be the existing bituminous sidewalk located on adjacent Maine Department of Transportation property (via West School). Recreation anticipates that maintenance of the skate park surface can be performed with hand tools (blowers, power washers, and power broom) or light truck





- mounted equipment (compressors). DPS anticipates storm drain maintenance on and around the skate park will be infrequently needed and can be performed using hand tools and light weight vehicles (tractors or light weight trucks). Routine maintenance will be performed during dry conditions only. No separate maintenance road was determined to be needed.
- Revisions to plans: You mentioned you need to change Sheet 2 to be consistent with what
  was updated regarding the Skate Park. If you have any revisions to the Sheets 1-9 it would be
  helpful to have them by the end of Tuesday so I can circulate them on Wednesday morning at
  our regular meeting.

The enclosed copies of Sheet 2 have been updated to reflect Site Plan Approval of the Skate Park. Additionally, the following sheets and revisions have been enclosed for review:

Sheet 2 & 4 – Revisions to St. James Street off-street parking including adding 'Do Not Enter' signs; adding 'Reserved Parking' signs; adding 'One Way' lettering and arrow pavement markings; and adjusting parking spaces to meet City Standards.

Sheet 3 – Revisions to Skate Park drainage to reflect Skate Park Site Plan Approval.

Sheet 5 – Revisions to Landscaping Plan including adjustments to St. James Street parking lot and labeling of bench and picnic table locations.

Sheet 6 – Revisions to the fencing layout details for the baseball and softball field including increasing player's bench from 15' to 21' long; providing concrete pad beneath all player benches; revision to field fences; and providing continuous pressure treated wood along base of all backstops.

Sheet 7 – Revisions to standard details to include pyromat permanent turf reinforcing detail per Skate Park Site Plan Approval.

Sheet 8 - Revisions to standard details to include traffic sign installation detail.

4. Sidewalk: You mentioned you were looking at the issue of the sidewalk and internal path being parallel and wondered if both were needed. I will be discussing this with reviewers, but bear in mind that usually site plan applicants are requested (per the ordinance) to provide sidewalks along the frontage of their sites and I sense that removal of any sidewalk would not be supported. Regarding the location and number of internal paths, I guess that may relate more to desire lines (e.g. to from ball field viewing areas) and what the public had said they wanted.

Currently St. James Street has two sections of existing bituminous sidewalk which terminate approximately 450 feet apart and a worn grass pathway connecting these two sections of sidewalk has developed. The site plan proposes to provide 450 linear feet of sidewalk to provide connectivity between the two sidewalk dead ends. Per discussions with the Recreation Department and DPS, the applicant proposes to provide the St. James Street sidewalk in addition to the internal stone dust paths as shown on the plans.

Per the City of Portland's Sidewalk Materials Policy, St. James Street sidewalk replacement material is specified to be concrete. The applicant is requesting a wavier to construct a bituminous sidewalk along St. James Street, which would match the material of the existing sidewalks on the street.



5. Info to include: The plans should show all of the structures intended including permanent fencing, toilets and other amenities (e.g. benches).

Enclosed are revised Sheets 4 and 5 identifying the location of all fencing, benches, picnic tables and waste receptacles. A temporary seasonal portable toilet is shown in the St. James Street parking lot on Sheet 4. Permanent restroom facilities will be constructed between the basketball courts and the little league fields as part of Phase 5 of the Dougherty Field Master Plan. Phase 5 is currently not been funded, therefore, permanent restroom facilities are not proposed at this time.

#### Additional Comments for Dougherty Field Improvements Site Plan Application

Dougherty Field Improvements Site Plan Application was originally submitted in conjunction with the Skate Park Site Plan Application. The applicant was listed as Ethan Owens, City of Portland, for both projects. The Skate Park has received Site Plan Approval. The applicant for the remaining Dougherty Field Improvement project should be changed to:

Troy Moon, City of Portland 55 Portland Street Portland, Maine 04101 Work #: 207.874.8467

Fax #: 207.874.8816

E-mail: THM@portlandmaine.gov

We look forward to working with you and receiving Site Plan approval for the Dougherty Field Improvement project. Please feel free to call at anytime if you have any questions or comments.

No. 10791

Sincerely,

WOODARD & CURRAN INC.

David Senus, PE Project Manager

DAS/MDL 203939.65

CC:

Enclosures – Dougherty Field Improvements Site Plan Application Drawings, Sheets 2-8 (7 copies full size, 1 copy 11"x17")

Ethan Owens, Sally Deluca, Troy Moon; City of Portland

From:

"David Senus" <dsenus@woodardcurran.com>

To:

"Jean Fraser" <JF@portlandmaine.gov>

CC:

"Barbara Barhydt" <BAB@portlandmaine.gov>, "Ethan Owens" <EOWENS@portlan...

Date:

9/21/2010 6:19 PM

Subject:

RE: Dougherty Field Site Plan

#### Hi Jean:

Per our phone call earlier today, the critical path item was the skate park approval, which has been granted. We thank you & the rest of the review team for the quick turn around of comments and approval.

With regard to the rest of the park improvements, we request the opportunity for Regina and I to meet with DPS & Recreation to review the items listed in your email, to evaluate the costs associated with the improvements against available funding, and to refine our design plans as necessary. I don't foresee significant changes from what has been submitted to date, but we would like the opportunity to revisit the design plans one last time prior to final review. I envision we can get any edits / final plans to you in around 2 or 3 weeks (time to estimate costs, meet, and draft any final edits).

In the meantime, I can answer question #1 regarding disturbance associated with the park improvements:

>New trail system: 36,000 sq ft (trail = 16,000 sq ft; grading = 20,000 sq ft)

>New parking lot: 10,750 sq ft (existing lot = 7,900 sq ft; expansion of 2,850 sq ft)

>New play area at Kiwanis: 1,400 sq ft >New sidewalk along St. James: 2,000 sq ft

>Skate park footprint: 8,200 sq ft

>Area of regrading around skate park: 50,000 sq ft

Total disturbance for park improvements: 108,350 sq ft\* or 2.5 acres

\*Ball field work considered revitalization of existing fields - existing softball field & baseball field reoriented to maximize field space; leveling of any low spots in outfields.

Based on this total area of disturbance, I believe this project falls under a Level II Site Plan review. Being over 1 acre of disturbance, we will submit a Stormwater PBR & Notice of Intent to Comply with the Maine Construction General Permit to DEP in advance of work. The current skate park project is much less than 1 acre so this is not a requirement for Hardcore's work.

I will be in touch to let you know what if any changes we anticipate and when we will submit final plans.

Please don't hesitate to call if you have any questions.

Thanks, Dave Senus David Senus, PE, Project Manager Woodard & Curran, Inc. 41 Hutchins Drive Portland, ME 04102 Phone: (800) 426-4262 x3241 Fax: (207) 774-6635

Woodard & Curran www.woodardcurran.com Commitment & Integrity Drive Results

-----Original Message-----From: Jean Fraser [mailto:JF@portlandmaine.gov] Sent: Monday, September 20, 2010 2:15 PM To: David Senus Subject: Dougherty Fields Site Plan

David.

As you know the Skatepark site plan has been approved.

So I am writing to recap on where things stand regarding the Dougherty Fields Site Plan application which was logged on Sept 3, 2010 and at this stage is being considered a Level II application. There are a few issues:

- 1. Info needed: At the meeting on 9.8.2010 Barbara asked for the actual figure for the area to be disturbed in order to confirm whether or not this needs to go to the Planning Board. Could you please send us that figure.
- 2. Maintenance route: DPS are looking for a maintenance route between the site and the street for maintenance of catchbasins and landscape at least. I think the view will be (we are discussing this on Wed AM) that the path between the parking lot and the Skatepark needs to be widened enough to take those vehicles (and maybe needs to be constructed differently too) so it would read as a pedestrian path but be a route for maintenance. Probably needs further discussion- there is already a wide "access" there.
- 3. Revisions to plans: You mentioned you need to change Sheet 2 to be consistent with what was updated re the Skatepark and if you have any revisions to the Sheets 1-9 it would be helpful to have them (7 copies) by the end of tomorrow so I can circulate (maybe discuss) them on Wed AM at our regular Dev Rev meeting.
- 4. Sidewalk: You mentioned you were looking at the issue of the sidewalk and internal path being parallel and wondered if both were needed. I will be discussing this with reviewers, but bear in mind that usually site plan applicants are requested (per the ordinance) to provide sidewalks along the frontage of their sites and I sense that removal of any sidewalk would not be supported. Re the location and

number of internal paths, I guess that may relate more to desire lines (eg to from ball field viewing areas) and what the public had said they wanted....

5. Info to include: The plans should show all of the structures intended including permanent fencing, toilets and other amenities (eg benches).

I will get back to you after our meeting on Wednesday to let you know if any other review issues have come up (final comments on the submitted plans are due on Wed).

thank you Jean

Jean Fraser, Planner City of Portland 874 8728

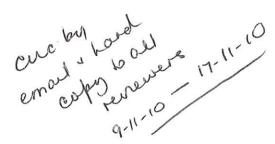
## COMMITMENT & INTEGRITY DRIVE RESULTS

41 Hutchins Drive Portland, Maine 04102 www.woodardcurran.com T 800.426.4262 T 207.774.2112 F 207.774.6635



November 9, 2010

Jean Fraser, Planner City of Portland Planning Office 389 Congress Street Portland, ME 04101



Re: Dougherty Field Improvements Level II Site Plan Application Response to Comments

Dear Jean:

Thank you for coordinating Site Plan review of the Dougherty Field Improvements project. Woodard & Curran received comments from the City of Portland Planning Division via email from Jean Fraser to Dave Senus dated October 27, 2010, along with additional comments relayed by way of our attendance at weekly development review meetings. The purpose of this letter is to address these comments, and to provide any additional information necessary to help facilitate the review and approval of the Site Plan application.

#### Comments in email from Jean Fraser, City of Portland Planning Division; dated October 27, 2010

 Comment: Suggest providing sidewalk connection at south end of St James parking lot, between St. James Street and parking lot sidewalk; apparent desire line.

**Response:** A walkway will be constructed offset from the south end of the St. James Street parking lot with a culvert to pass drainage below the proposed walkway, providing a connection from St. James Street to the park path. See Sheets 2, 3 and 4.

2. **Comment:** Proposed sidewalk at "missing" section of sidewalk, west edge of St. James Street (approximately 400'); material change from asphalt to concrete.

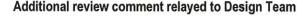
**Response:** Per the City of Portland's Sidewalk Materials Policy, St. James Street sidewalk material shall be concrete. The applicant and design team initially requested a waiver to provide asphalt sidewalk to match the existing material at each end; however, this waiver request would require City Council approval (per email). The applicant and design team are not opposed to the use of concrete for this sidewalk surface, and therefore have updated the material of this sidewalk to concrete, see Sheets 2, 4 and 7.

3. Comment: STOP sign to be added for movements exiting the parking lot.

Response: Stop sign added at exit of parking lot, see Sheet 4.

 Comment: Truncated domes to be installed on each sidewalk ramp at each driveway to the parking lot.

**Response:** City Standard truncated domes were included on the ADA Pedestrian Ramp detail (Sheet 7). To further clarify the plans, specific call outs were added to Sheet 2.





• Comment: The plans called for a 5' wide sidewalk along the edge of the St. James Street parking lot. Angled-in vehicle parking may overlap this sidewalk by a couple feet, reducing the passable sidewalk area to only 3' in width. Suggest widening sidewalk to 7' to account for vehicle overhang.

Response: Plans have been updated to include a 7' wide sidewalk in this area, see Sheets 2 and 4.

Comment: The plans include two 4' wide stone dust paths connecting the main trail & St.
James Street sidewalk to the playground area near Kiwanis Pool. The path connecting the
main trail to the playground area is graded at 8%. Recommend reducing slope to 5% and
widening both paths to 5'.

Response: The design intent of these pathways is to blend in with existing topography to the maximum extent practical while limiting impact to the adjacent, existing trees. We feel that an 8% grade on a non-hardened, internal park path provides an acceptable means of egress to the playground area, especially considering that this is one of two proposed connections to the playground area. Modifying this connection to a 5% grade would impact adjacent, existing trees and would create an unnatural, raised pathway, which goes against the design intent. The design meets the guidelines set forth under the U.S. Architectural and Transportation Barriers Compliance Board's Draft Final Accessibility Guidelines for Outdoor Developed Areas, Section 1017.7.1 – Running Slope. In addition, the second proposed connection from St. James Street provides egress with slopes of less than 5% from the parking lot to the playground.

With regard to the concern over pathway width, we feel that the proposed 4' wide path is appropriate for these connections. It differentiates these connections from the interior main pathway, which is designed at 5' wide. The intent is to provide a visible entry path to the playground that blends well with the surrounding landscape and that has a "spur trail" look, as compared with the main pathway.

We look forward to working with you and receiving Site Plan approval for the Dougherty Field Improvement project. Please feel free to call at anytime if you have any questions or comments.

Sincerely,

WOODARD & CURRAN INC.

David Senus, PE Project Manager

DAS/ 203939.65

Enclosures – Dougherty Field Improvements Site Plan Application Drawings, Sheets 2, 3, 4 and 7

cc: Ethan Owens, Sally Deluca, Troy Moon; City of Portland



# Development Feview Application PORTLAND, MAINE

Planning and Urban Development Department Planning Division and Planning Board

PROJECT NA	ME: Dougherty Field Improveme	ents	
PROPOSED D	DEVELOPMENT ADDRESS:		
Between D	Oouglass Street and St. James Stree	et	
PROJECT DE	SCRIPTION:		
softball fields;	ts to Dougherty Field include realign parking lot redevelopment; sidewall and playground installation.		abilitation of existing baseball and
CHART/BLOC	CK/LOT: 066-A-002, 078-B-007, 079-B-001, 080-L-001 FORMATION:		ELIMINARY PLAN
APPLICANT Name:	Ethan Owens, City of Portland	PROPERTY Name:	Y OWNER  City of Portland
Address:	134 Congress Street	Address:	389 Congress Street
	Portland, Maine		Portland, Maine
Zip Code:	04101	Zip Code:	04101
Work #:	207.874.8936	Work #:	
Cell #:		Cell #:	
Fax #:	207.756.8279	Fax #:	
Home:		Home:	
E-mail:	eowens@portlandmaine.gov	E-mail:	
BILLING ADD Name: Address:	DRESS		
Zip:	-	*It should b	e noted that application fees are not
Work #:		applicable l	because Dougherty Field is a City of
Cell #:		Portland pr	oject.
Fax #:			
Home:			
F-mail·			

~As applicable, please include additional contact information on the next page~

	RESENTATIVE	ENGINEE	
Name:	David Senus, Woodard & Curran	Name:	David Senus, Woodara & Curran
Address:	41 Hutchins Drive	Address:	41 Hutchins Drive
068	Portland, Maine		Portland, Maine
Zip Code:	04101	Zip Code:	04101
Work #:	207.774.2112	Work #:	207.774.2112
Cell #:		Cell #:	
Fax #:	207.774.6635	Fax #:	207.774.6635
Home:		Home:	
E-mail:	dsenus@woodardcurran.com	E-mail:	dsenus@woodardcurran.com
LANDSCAPE Name:	E ARCHITECT Regina S. Leonard	CONSUL <sup>*</sup> Name:	<u>FANT</u>
Address:	29 Bridge Street	Address:	
	Topsham, Maine		8
Zip Code:	04086	Zip Code	:
Work #:	207.450.9700	Work #:	8
Cell #:		Cell #:	
Fax #:	800.606.4306	Fax #:	
Home:		Home:	
E-mail:	regina@rsldesign.com	E-mail:	
SURVEYOR Name: Address:		ATTORNI Name: Address:	
Zip Code:	ii .	Zip Code	:
Work #:		Work #:	
Cell #:	1	Cell #:	
Fax #:		Fax #:	
Home:		Home:	
F-mail:		E-mail:	

### **PROJECT DATA**

The following information is required where applicable, in order complete the application

Total Site Area				846,064	sq. ft.
Proposed Total Disturbed	Area of the S	ite		578,800*	sq. ft.
			*	Most of area for realign	ment of ball fields
(If the proposed disturband	e is greater th	an one acre, then the applic			
Permit (MCGP) with DEP ar	nd a Stormwat	er Management Permit, Cha	pter 50	0, with the City of Portla	ınd)
9					
IMPERVIOUS SURFAC	E AREA				
Proposed Total Paved Are	ea			12,840	sq. ft.
Existing Total Impervious				32,330	sq. ft.
Proposed Total Imperviou				35,305	sq. ft.
Proposed Impervious Net				2,975	sq. ft.
BUILDING AREA	9-				
Existing Building Footpring	t			N/A	sq. ft.
Proposed Building Footpri				N/A	sq. ft.
Proposed Building Footpr				N/A	sq. ft.
·	1000	=		N/A	sq. ft. sq. ft.
Existing Total Building Flo				N/A	sq. ft. sq. ft.
Proposed Total Building Floor		980		N/A	sq. ft. sq. ft.
Proposed Building Floor A	trea net Chan	ige		NO	
New Building					(yes or no)
ZONING				500	
Existing				ROS	
Proposed, if applicable				ROS	
LAND USE					
Existing				RECREATIONAL	
Proposed				RECREATIONAL	
RESIDENTIAL, IF APP	LICABLE				
Proposed Number of Affo		g Units		N/A	
Proposed Number of Res				N/A	
Existing Number of Resid				N/A	
Proposed Number of Res				N/A	<del> </del>
Subdivision, Proposed Nu				N/A	<del></del>
PARKING SPACES					
Existing Number of Parking	na Spaces			Undefined	
Proposed Number of Parl				24	
Number of Handicapped		26		2	
Proposed Total Parking S		23		24	
					<del></del> 8
BICYCLE PARKING S				0	
Existing Number of Bicyc				0	
Proposed Number of Bicy		paces		16	<del></del> j
Total Bicycle Parking Spa	ices			16	<del></del> )
				**********	<b>.</b>
ESTIMATED COST OF	- PROJECT			\$240,000 (Skate Park	
		za saura		\$375,000 (All other im	
	wing with a Y	es/No response on all th		y to the proposed dev	velopment
Institutional _	NO	Design Review	NO_		
Parking Lot _	YES	Flood Plain Review	NO		
Manufacturing _	NO	Historic Preservation	NO	_	
Office _	NO	Housing Replacement	NO	_	
Residential _	NO	14-403 Street Review	NO	_	
Retail/Business	NO	Shoreland	NO		
Warehouse	NO	Site Location	NO		
Single Family Dwelling	NO	Stormwater Quality	NO		
2 Family Dwelling	NO	Traffic Movement	NO		
Multi-Family Dwelling	NO	Zoning Variance	NO	(or date)	
B-3 Ped Activity Review	NO	Historic Dist./Landmark	NO		
Change of Use	NO	Off Site Parking	NO		
_					

#### APPLICATION FEES:

Check all reviews that apply. Payment may be made in cash or check to the City of Port and.

Level II Development*  Less than 10,000 sq. ft. (\$400.00)  After-the-fact Review (\$1,000.00 plus applicable application fee)	Plan Amendments  Planning Staff Review (\$250)  Planning Board Review (\$500)
*It should be noted that application fees are not applicable because Dougherty Field is a City of Portland project.	Subdivision  Subdivision (\$500) + amount of lots(\$25/lot)  + (applicable + Major site plan fee)
Level III Development  Under 50,000 sq. ft. (\$500)  50,000 - 100,000 sq. ft. (\$1,000)  Parking Lots over 100 spaces (\$1,000)  100,000 - 200,000 sq. ft. (\$2,000)  200,000 - 300,000 sq. ft. (\$3,000)  Over 300,000 sq. ft. (\$5,000)  Parking lots over 100 spaces (\$1,000)  After-the-fact Review (\$1,000 plus applicable application fee)	Other Reviews Site Location of Development (\$3,000) (except for residential projects which shall be \$200 per lot) Traffic Movement (\$1,000) Stormwater Quality (\$250) Section 14-403 Review (\$400 + \$25/lot) Other

## LEVEL II AND LEVEL III REVIEW APPLICATION SUBMISSION Submissions shall include seven (7) packets with folded plans containing the following

Seven (7) full size site plans that must be folded.

- 2. Seven (7) copies of all written materials as follows, unless otherwise noted:
  - a. Application form that is completed and signed.
  - b. Cover letter stating the nature of the project.
  - c. All Written Submittals (Sec. 14-525 2. (c), Including evidence of right, title and interest.
- 5. A stamped standard boundary survey prepared by a registered land surveyor at a scale not less than one
- 6. Plans and maps based upon the boundary survey and containing the information found in the attached
- 7. Copy of the checklist completed for the proposal listing the material contained in the submitted application.
- 8. One (1) set of plans reduced to 11 x 17.

Refer to the application checklist (page 7) for a detailed list of submittal requirements.

Portland's development review process and requirements are outlined in the Land Use Code (Chapter 14), which includes the Subdivision Ordinance (Section 14-491) and the Site Plan Ordinance (Section 14-521). Portland's Land Use Code is on the City's web site: www.portlandmaine.gov Copies of the ordinances may be purchased through the Planning Division.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. agree to conform to all applicable laws of this Jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Planning Authority and Code Enforcement's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

This application is for a Site Plan review only. A Performance Guarantee, Inspection Fee, Building Permit Application and associated fees will be required prior to construction.

Signature of Applicant:	Date:	
Ingh	9/3/2011	. 1
, .	1, 7 - 010	

#### City of Portland Planning Division

389 Congress Street Portland, Maine 04101 (207) 874-8719 www.portlandmaine.gov

#### Office Hours:

Unless noted, office hours are Monday thru Friday 8:00 a.m. – 4:30 p.m.

#### General Submittal Requirements – Level II and Level III Site Plan

Preliminary Plan Phase (if elected by applicant)						
Applicant Checklist	Planner Checklist	Number of Copies	Submittal Requirement			
✓		7	Completed application form			
N/A		1	Application fees			
$\checkmark$		7	Written description of project			
✓		7	Evidence of right, title and interest.			
✓		7	Copies of required State and/or Federal permits.			
✓		7	Written assessment of zoning.			
✓		7	Written description of existing and proposed easements or other burdens.			
N/A		7	Written requests for waivers from individual site plan and/or technical standards, where applicable.			
N/A		7	Traffic analysis (may be preliminary, in nature, during the preliminary plan phase).			
$\checkmark$		7	Written summary of significant natural features located on the site.			
✓		7	Written summary of project's consistency with related city master plans.			

Final Plan Phase (including items listed above if no preliminary plan review)						
Applicant Checklist	Planner Checklist	Number of Copies	Submittal Requirement			
✓		1	Evidence of financial and technical capacity.			
N/A		.1	Evidence of utilities' capacity to serve the development.			
N/A		1	Written summary of fire safety (referencing NFPA fire code and Section 3 of the City of Portland Technical Manual).			
✓		1	Construction management plan.			
N/A		1	Traffic Plan (if development will (1) generate 100 or more PCE or (2) generate 25 or more PCE and is located on an arterial, within 1/2 mile of a high crash location, and/or within ¼ mile of an intersection identified in a previous traffic study as a failing intersection).			
✓		1	Stormwater management plan.			
✓		1	Written summary of solid waste generation and proposed management of solid waste.			
✓		1	Written assessment of conformity with applicable design standards.			
N/A		1	Manufacturer's verification that HVAC and manufacturing equipment meets applicable state and federal emissions requirements.			

### Site Plans and Boundary Survey Requirements – Level II and Level III Site Plan

		Preliminary	Plan Phase (if elected by applicant)
Applicant	Planner	Number of	Submittal Requirement
Checklist	Checklist	Copies	:«
✓		7	Boundary Survey meeting the requirements of Section 13 of the City
,	_	7	of Portland Technical Manual.  Preliminary Site Plan Including the following:
✓		,	(*information provided may be preliminary in nature during the
			preliminary plan phase):
1		■ Existin	g and proposed structures with distance from property line (including
		250 Ann 198 - 7 - 2 - 4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	on of proposed piers, docks or wharves if in Shoreland Zone).
<b>✓</b>		I	on of adjacent streets and intersections and approximate location of
ä			ures on abutting properties
<b>√</b>		■ Propos	sed site access and circulation.
$\checkmark$		■ Propos	sed grading and contours.
✓	П	I	on and dimension of existing and proposed paved areas including all
	_		g areas and vehicle, bicycle and pedestrian access ways.
$\checkmark$		10	inary landscape plan including existing vegetation to be preserved,
,			sed site landscaping and street trees.
✓			g and proposed utilities (preliminary layout).
✓			inary infrastructure improvements (e.g curb and sidewalk
			vements, roadway intersection modifications, utility connections,
,	_		t infrastructure, roadway improvements). inary stormwater management and erosion control plan.
<b>v</b>			
N/A			ng significant natural features located on the site (including wetlands,
			, watercourses, floodplains, significant wildlife habitats and fisheries or important natural features listed in Section 14-526 (b) 1. of the Land
		Use Co	
N/A			sed alterations to and protection measures for significant natural
	Ш		es located on the site (including wetlands, ponds, watercourses,
		floodp	lains, significant wildlife habitats and fisheries or other important
			al features listed in Section 14-526 (b)1. of the Land Use Code).
✓		<ul><li>Existin</li></ul>	ng and proposed easements or public or private rights of way.
			Final Plan Phase
✓		7	Final Site Plan Including the following
✓		C - A-C - C - C - C - C - C - C - C - C	ng and proposed structures on the site with distance from property line
			ding location of proposed piers, docks or wharves if in Shoreland Zone).
<b>√</b>		1	on of adjacent streets and intersections and approximate location of
_			ures on abutting properties. sed site access and circulation.
•	$\sqcup$		
<b>√</b>			sed grading and contours.
✓		A Company of the Comp	ion and dimension of existing and proposed paved areas including all
		1.000	ng areas and vehicle, bicycle and pedestrian access ways. Proposed curb must be shown.
N/A		0.000,000,000	sed loading and servicing areas, including applicable turning templates
IV/A		10 march 10	livery vehicles

N/A		<ul> <li>Proposed snow storage areas or snow removal plan.</li> </ul>
<b>√</b>		Proposed trash and recycling facilities.
✓		<ul> <li>Landscape plan including existing vegetation to be preserved, proposed site landscaping and street trees.</li> </ul>
$\checkmark$		<ul> <li>Existing and proposed utilities.</li> </ul>
✓		<ul> <li>Location and details of proposed infrastructure improvements (e.g curb and sidewalk improvements, roadway intersection modifications, utility connections, public transit infrastructure, roadway improvements).</li> </ul>
N/A		<ul> <li>Proposed septic system, if not connecting to municipal sewer. (Portland Waste Water Application included in this application)</li> </ul>
N/A		<ul> <li>Proposed finish floor elevation (FFE).</li> </ul>
N/A		<ul><li>Exterior building elevation(s) (showing all 4 sides).</li></ul>
$\checkmark$		<ul> <li>Proposed stormwater management and erosion controls.</li> </ul>
N/A		Exterior lighting plan, including street lighting improvements
✓		Proposed signage.
N/A	Ξ,	Identification of existing significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b)1. of the Land Use Code). Wetlands must be delineated.
N/A		Proposed alterations to and protection measures for of existing significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b)1. of the Land Use Code).
$\checkmark$		<ul> <li>Total area and limits of proposed land disturbance.</li> </ul>
$\checkmark$		Soil type and location of test pits and borings.
N/A		Details of proposed pier rehabilitation (Shoreland areas only).
N/A		Proposed snow storage areas or method of snow removal.
$\checkmark$		<ul> <li>Existing and proposed easements or public or private rights of way.</li> </ul>

## Written Statement for Dougherty Field Improvements Site Plan Application

### City of Portland

#### Written description of project:

Dougherty Field Improvements includes realignment of existing high school baseball and softball fields; providing new backstop fencing for high school baseball and softball fields; removal of existing outfield fencing from two little league fields and providing removable outfield fencing; removal and redevelopment of existing St. James Street parking lot; providing new bituminous sidewalks throughout park; providing new landscaping; and constructing new concrete skate park.

#### Evidence of right, title and interest:

See Appendix A for property deeds.

#### Copies of required state and/or federal permits:

See Appendix B for Stormwater Permit By Rule (to be filed)

#### Written assessment of zoning:

- 1. Property is located in ROS Zone (Recreation Open Space)
- 2. Parcel Acreage: 19.4 Acres
- 3. Regulations:

§14-157 Space & Bulk Requirements	Required	Provided
(a) Minimum Front Yard	25 Feet	N/A - no proposed buildings
(b) Minimum Rear Yard	25 Feet	N/A – no proposed buildings
(c) Minimum Side Yard	12 Feet	N/A – no proposed buildings
(d) Minimum Lot Size	2 Acres	19.4 Acres
(e) Maximum Building Height	45 Feet	N/A – no proposed buildings
(f) Maximum Coverage of Lot	25%	10%
(g) Maximum Floor Area Ration	0.5	N/A – no proposed buildings

#### Written description of existing and proposed easements or other burdens:

No proposed easements. Refer to deeds and boundary survey contained in Appendix A for existing easements.

## Written requests for waivers from individual site plan and/or technical standards, where applicable: Not Applicable

#### Traffic analysis:

Not Applicable – no changes to existing traffic pattern

#### Written summary of significant natural features located on the site:

Not Applicable – no natural features on site. Existing developed park land.

#### Written summary of project's consistency with related city master plans:

The proposed Dougherty Field improvements are based on the Dougherty Field Master Plan approved by the City Council. This project implements elements of Phases 1, 2 and 3 of the Master Plan. The proposed improvements breakdown into the following phases of the Master Plan:

- Phase 1: Sports field realignment and revitalization, walking path improvements and landscape improvements.
- Phase 2: St James Street parking lot redevelopment, new bituminous sidewalk and landscape improvements.
- Phase 3: New playground equipment, walking paths and landscape improvements.

The skate park was integrated into the Douglerty Field Master Plan but not included in the construction phasing. A Request for Proposal was issued by the City, and the final design, permitting and construction of the skate park will be completed by Hardcore Shoterete Skateparks, Inc.

#### Evidence of financial and technical capacity:

Funding has been allocated by the City of Portland for the proposed Dougherty Field Improvement project. The funding approved for design, permitting and construction of Phase 1 of the Dougherty Field Master Plan is \$376,663. The funding approved for design, permitting and construction of Phase 2 and elements of Phase 3 is \$109,006. The City Council allocated \$75,000 in capital funds for the skate park. These funds, in addition to the money fundraised by the Skate Park Committee, totals \$240,000 for the skate park design, permitting and construction.

Woodard & Curran and Regina S. Leonard Landscape Architecture have the technical expertise and capacity to appropriately serve the City of Portland during the Dougherty Field Improvement project design and permitting process. We have attached an overall profile of the firm as well as an overview of our Civil Engineering services in addition to a resume and qualifications for Regina S. Leonard Landscape Architecture, see Appendix C.

#### Evidence of utilities capacity to serve the development:

Not Applicable - no proposed buildings

#### Written summary of fire safety:

Not Applicable - no proposed buildings

#### Construction Management Plan:

Construction for the Dougherty Field Improvements will be completed by three separate crews; Hardcore Shotcrete Skateparks, Inc; City or Portland Construction Company crew; and Contractors selected through the public bid process.

Hardcore Shotcrete Skateparks, Inc anticipates starting and completing construction of the skate park in fall 2010.

City of Portland Construction Company crews anticipate starting and completing realignment of the existing baseball and softball fields, redevelopment of the St James Street parking lot, and installation of new sidewalks and landscaping in the spring and summer of 2011 (portions of work potentially as early as Fall 2010).

Bid documents will be developed for ball fields fencing and playground equipment and will be publicly bid in spring of 2011. The winning contractors are anticipated to start and complete construction in the spring and summer of 2011.

#### Traffic Plan:

Not Applicable – no changes to existing traffic pattern

#### Stormwater Management Plan:

See Appendix D for Stormwater Management Plan

#### Written summary of solid waste generation and proposed management of solid waste:

Construction Debris: During construction, any soils excavated will be reused on site as part of the grading and site improvements around the skate park. Refer to recommendations for soils management contained in the letter from the City of Portland to Maine DEP dated January 9, 2001 and report by Peterson-Rabasca dated January 2, 2001 (Appendix E).

Materials demolished and removed from the site will be recycled to the greatest extent possible. The materials to be recycled include, but are not limited to fencing, concrete and asphalt. Any remaining construction debris will be brought to the Riverside Transfer Station.

Municipal Waste: The proposed improvements to the baseball and softball field will not increase the amount of daily solid waste generated at the site. Any existing waste receptacles removed during construction will be returned upon completion. Two new waste receptacles are proposed on site, one adjacent to the new skate park and one adjacent to the new playground (see Landscape Plan). Maintenance of the proposed waste receptacles will become part of the regular maintenance of Dougherty Field by the City's park crews.

#### Written assessment of conformity with applicable design standards:

Dougherty Field Improvements have been designed in conformance with the City of Portland's Technical Manual and Land Use Code.

Manufacturer's verification that HVAC and manufacturing equipment meets applicable state and federal emissions requirements:

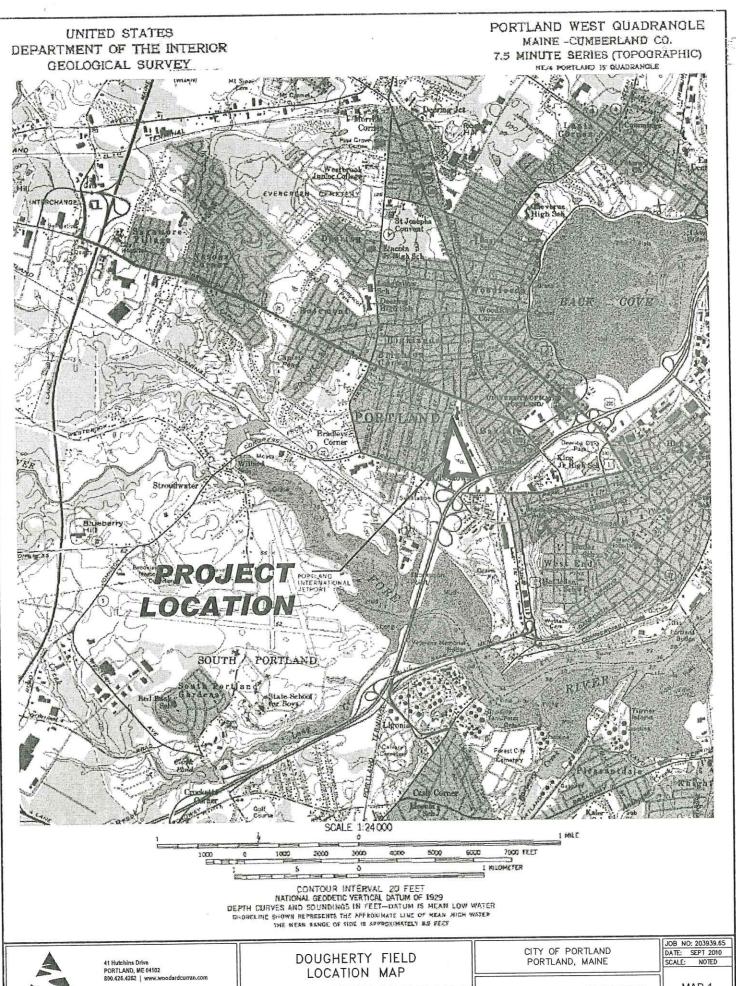
Not Applicable – no proposed buildings

. Name of Applicant: Ethan (		ICATION FORM PLEASE TY on Owens,		5. Name of Agent:		Da	David Senus, P.E.		
	Athletic	Athletics Facility Manager		(if ap			roject Manager		
		Portland					/oodard & Curran		
2. Applicant's		ngress Stre		6. Agen		ATT STREET, CANSESSEED, CO. T.	41 Hutchins Drive Portland, Maine 04101		
Mailing Address:		d, Maine 0	4101		ng Address: t's Daytime		7.774.2112		
3. Applicant's Daytime Phone #:	207.874			Phon	e#:				
I. Applicant's Fax #: (if available)	207.756.8279			and	it's Fax # email address:	A Section	207.774.6635		
D. Location of Project: (Road, Street, Rt.#)	Between Douglass Street and St. James Street			10. Tow	m;	Po	Portland		
				11. Con	inty:	Cu	umberland		
12. Is this PBR for rene	wal of a	n individuz	al stormwater perm	it? If yes	s, skip to Block 2	27 and sig	gnature page.	☐ Yes ☑ No	
13. Type of Direct	☐ Lake	e not most a	at risk	14. A	mount of Develo	ped	☑ Total # of 3.2 ac		
Watershed:		e most at ris		CHECK TOTAL	rea:		OR		
(Check all that apply)			sk, severely bloomin				☐ Total # of	_square feet	
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		shwater wet stal wetland					☐ Total # of	_square feet	
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	Salah Dali Asar	1	THE RESERVE OF THE PARTY OF THE	tu naut o	f a larger projec	.49	☐ Yes		
16. Creating a common development or sale?		1	17. Is this activ	ity part o	i a larger projec		☑ No		
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18. Name of waterbody (ies) to v disturbed area drains, or na		ne of		19. If site drains to an Impaired Waterbody (C),		N/A			
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#### CERTIFICATIONS / SIGNATURES

herein and I affirm that my	water PBR and have attached the required PBR submissions. I have read the requirements y project satisfies the applicable stormwater management standards. I authorize staff of State ng jurisdiction over this activity, to access the project site for the purpose of determining
Signed:	Date:
Notice of Intent to Comply with Maine Construction General Permit	With this Stormwater PBR notification form and my signature below, I am filing notice of my intent to carry out work which meets the requirements of the Maine Construction General Permit. I have read and will comply with all of the MCGP standards. In addition, I will file a Notice of Termination (NOT) within 20 days of project completion.  If this form is not being signed by the landowner or lessee of the property, attach
	documentation showing authorization to sign.  SignedDate:

TO BE SUBMITTED
PRIOR TO CONSTRUCTION

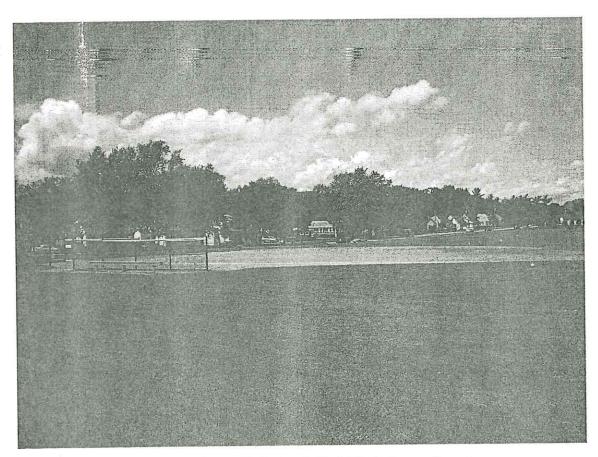




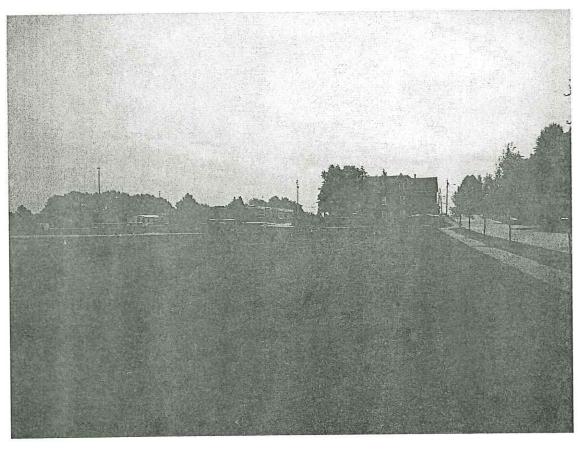
COMMITMENT & INTEGRITY DRIVE RESULTS

DESIGNED BY: N/A CHECKED BY: DAS DRAWN BY: MDL Field Location Map.dwg DOUGHERTY FIELD IMPROVEMENTS

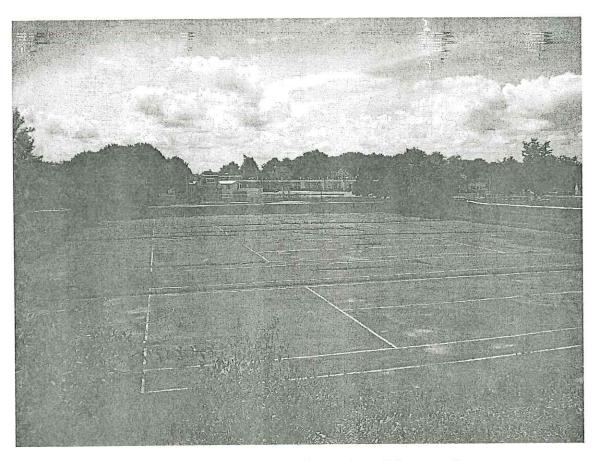
MAP-1



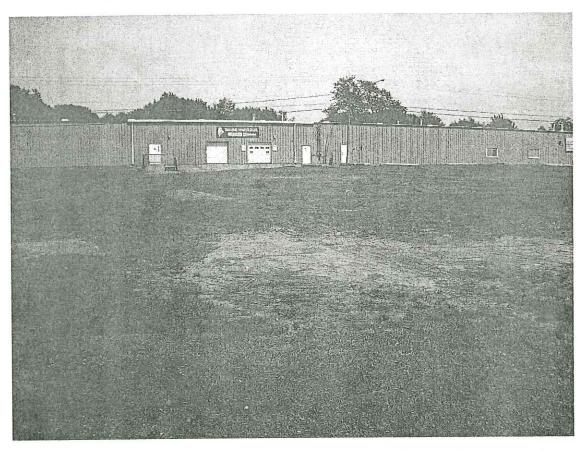
Doughtery Field Photo: Existing ball fields to be realigned



Dougherty Field Photo: Existing ball fields along Douglass Street

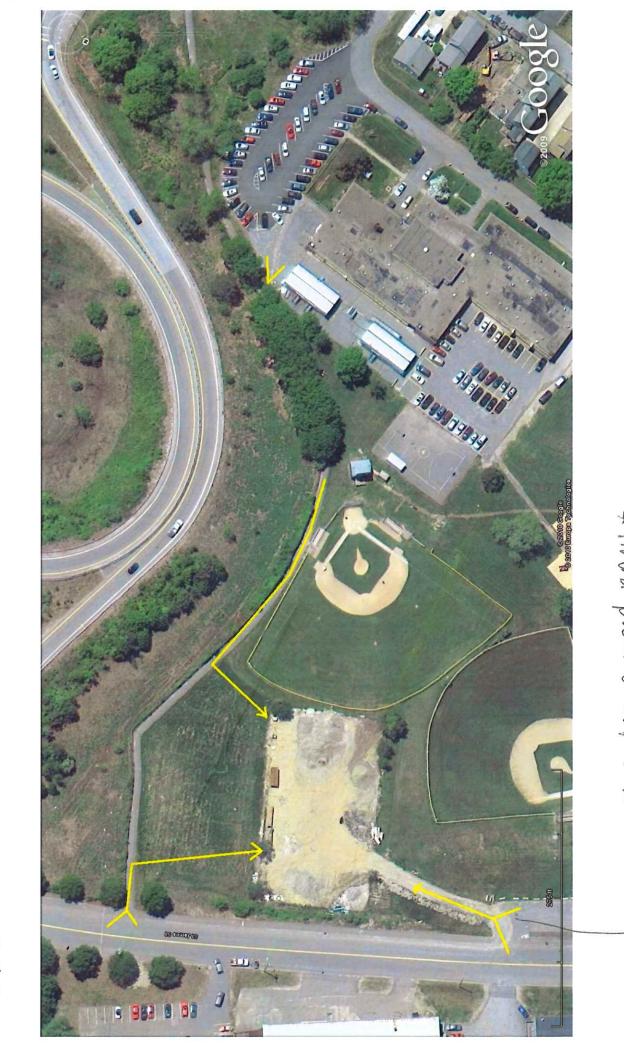


Dougherty Field Photo: Proposed location of skate park



Dougherty Field Photo: St. James Steet parking lot (to the right)

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comments on Donghary Rild lungs will seek the nain, access new part at this is caken to be wide enough of futur main, access agreed this being used now +



41 Hutchins Drie Portland, Main 94102 www.woodard gran.com T 800.426.4262 T 207.774.2112 F 207.774.6635



Date September 3, 2010

Jean Fraser, Planner City of Portland Planning Office 389 Congress Street Portland, ME 04101

Re:

Dougherty Field Improvements Level II Site Plan Application

Dear Jean:

On behalf of the City of Portland, we submit seven (7) copies of the Level II Site Plan Application for the Dougherty Field Improvements project, with supporting documentation, to be used in Planning Staff review.

These documents were prepared in accordance with Chapter 14, Land Use Code or Ordinances of the City of Portland, Maine and meet the applicable sections of the City of Portland Technical Manual adopted May 11, 2010.

The proposed project involves improvements to Dougherty Field including realignment and revitalization of existing ball fields; new backstop and removable fencing for the ball fields; new stone dust walking paths throughout the park; redevelopment of the St. James Street parking lot; new playground equipment; and landscape improvements. The project also includes the construction of a new skate park in the location of the existing tennis courts by Hardcore Shotcrete Skateparks, Inc. Construction of the skate park by Hardcore is anticipated to begin and be completed in the fall of 2010. Construction of all other improvements is anticipated to begin in the fall or spring and be completed in the spring and summer of 2011.

We look forward to working with your office on this project. Please do not hesitate to contact Woodard & Curran if you have any questions or comments.

SENUS

Sincerely,

WOODARD & CURRAN INC.

David Senus, PE Project Manager

DAS/MDL 20393.65

Enclosure(s)

cc:

Ethan Owens, Sally Deluca, Troy Moon; City of Portland

THINITING THE PARTY OF THE PART

RE EIVE

7 2010

Carrier Portland Planting Division

#### CITY OF PORTLAND, GRANTEE

J. Hopkins Saith

1815 - 84

to City of Portland .arranty

Beginning at a stake on the southerly side of a street sixty (60) feet wide defined and agreed upon in partition of the Smith and Brown farm so-called, of which plan and report of Commissioners is recorded in Cumberland County Registry of Deeds in Book 958, Page 83, said street extending westerly from St James Street to Douglass Street and said stake being at the westerly corner of a lot of land of Portland Gas Company on the southerly side of said street; thence westerly by said street about seven-hundred seven (707) feet to a point within one-hundred six and five-tenths (106.5) feet of Douglass Street and to the northeasterly corner of land St. John Smith and J. B. Brown conveyed to George L. Hodgdon July 6, 1865; thence southerly by said Hodgdon lot and by land, said Smith and Brown conveyed to G. W. Burnham, June 17, 1865, a total distance of about one-hundred and forty-one and five-tenths (141.5) feet; thence easterly by rear of lots fronting on Congress Street as now or formerly shown by an old fence line indicating what was formerly known as the division line between the City of Portland and the City of Dearing about seven-hundred twelve (712) feet to a stone monument at the southwesterly corner of a lot of land owned by the Portland Gass Light Company on the southerly side of said street above mentioned, said monument being located by a right angle to said street from the stake at the point of beginning of this description and a distance of about ninety-five (95) feet from said stake; thence northeasterly about ninety-five (95) feet to the point of beginning.

Being lot "L" as shown on said plan and the 6th parcel conveyed by deed of Henry St. John Smith, et als, to J. Hopkins Smith dated September 11, 1916, and recorded in said Registry of Deeds in Book 975, Page 407.

Together with all my right title and interest in and to said street sixty (60) feet wide.

March 27, 1946

J. Sopkins Smith

March 27, 1946

April 8, 1946

#### CITY OF PORTLAND, GRANTEE

Helen S. Beyer

1667-158

To

Marranty

City of Portland

One-half in common and undivided in the following described

real estate situated in said City of Portland, namely:
Lots I and J on a "plan of property in Portland, Maine belonging to the J. B. Brown & Sons Corporation and the Heirs of St. John Smith" incorporated in the Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 958, at Pages 83 to 99, together with all my rights, title and interest in and to any land covered by proposed streets delineated on said plan and which lie within the boundaries of the lots above named, and which lie between Lots C and K and Lots C and D on said plan.

Also all the right, title and interest of the Grantor in and to the land marked Douglass Street between Congress Street and Brighton Ave, so-called, as delineated on a plan of property in Portland Maine belonging to the J. B. Brown & Sons Corporation and the Heirs of St. John Smith, said plan being a part of Partition Proceedings recorded in the Cumberland County Registry of Deeds, Book 958, Pages 83 to 99. This conveyance of land marked Douglass Street is made upon the express condition that such land hereby conveyed shall be used only as a public street, as delineated on the aforesaid plan.

> Helan S. Beyer Widow

November 29, 1941

Rovember 29, 1941

January 23, 1942

J. B. Brown & Sons

1573 - 98

Warranty

City of Portland

A certain lot or parcel of land situated northerly of Congress Street and easterly of Douglass Street, in said City of Portland, and bounded and described as follows:

Beginning at a point in the northerly side line of a proposed Street running easterly from Douglass Street to the Right of Way of the Portland Gas Light Company as shown on a plan of property of J. B. Brown & Sons and the heirs of St. John Smith, recorded in the Cumberland County Registry of Deeds in Book 958 at Pages 83 to 99, (said northerly side line of intersecting the easterly side line of said Douglass Street two hundred seventy-one and thirty-two hundredths (271.32) feet northerly along said easterly side line from the northerly side line of Congress Street aforesaid), which point is one hundred (100) feet easterly along said northerly side line of said proposed street from the easterly side line of Douglass Street aforesaid; thence running northeasterly parallel with said easterly side line of said Douglass Street seven hundred and six (706) feet, more or less, to the point of intersection with the westerly side line of another proposed street, shown on said plan, which said second proposed street runs from said Douglass Street southerly to the first mentioned proposed street; thence southerly along the said westerly side line of said second proposed street 2 distance of nine hundred eighty (980) feet, more or less, to the point of intersection with the northerly side line of said first proposed street; thence easterly along said northerly side line of said first proposed street to the point of beginning, being a triangular lot of land shown on said plan and marked "C to J. B. Brown & Sons" on said plan, containing two hundred twenty-two thousand, eight hundred fifty-seven (222,857) square feet, more or less, and being the lot now used by said City of Portland, in part as a dump.

> J. B. Brown & Sons By Harold Lee Berry and Phillip G. Clifford

February 20, 1939

February 20, 1939

March 15, 1939

## CITY OF PORTLAND, GRANTEE

Nancy Smith Saltonstell (formerly Nancy Smith) of Boston 1667-157

Warranty

To

City of Portland

One-quarter in common and undivided in the following

described real estate situated in said City of Portland, namely:

Lots I and J on a "plan of property in Portland, Maine belonging to the J. B. Brown & Sons, Corporation and the Heirs of St. John Smith, incorporated in the Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 958, at Pages 83 to 99, together with all my right and interest in and to any land covered by proposed streets delineated on said plan and which lie within the boundaries of the lots above named, and which lie between Lots C and K and Lots C and D on said plan.

Reference is made to deed of William Andros Barron, Jr., Trustee to Mancy Smith and Henry St. John Smith, Jr. dated August 31, 1936, record-

ed in said Registry in Book 1508, Page 83.

Also all the right, title and interest of the Grantor in and to the land marked Douglass Street between Congress Street and Brighton Ave, so-called, as delineated on a "plan of property in Portland Maine belonging to the J. B. Brown & Sons Corporation and the Heirs of St. John Smith, said plan being a part of Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 958 at Pages 83 to 99. This conveyance of land marked Douglass Street is made upon the express condition that such land hereby conveyed shall be used only as a public street, as delineated on the aforesaid plan.

Nancy Smith Saltonstall
Leverett Saltonstall Jr.

January 5, 1942

January 5, 1942

January 28, 1942

#### CITT OF PORTLAND, GRANTEE

Constance W. Smith, of Groton, Mass., Guardian of Henry St. John Smith, Jr., of Cape Elizabeth

1663-425 Guardian's Deed

to

City of Portland

One-quarter in common and undivided in the following described real estate situated in said City of Portland, namely: Lots I and J on a "plan of property in Portland, Me. belonging to the J. B. Brown & Sons, Corp. and the Heirs of St. John Smith" incorporated in the Partition Proceedings recorded in the Comberland County Registry of Deeds in Book 958, at Pages 83 to 99, together with all right, title and interest of said Henry St. John Smith, Jr, in and to any land covered by proposed streets delineated on said plan and which lie within the boundaries of the lots above named, and which lie between Lots C and K and Lots C and D on said plan.

Reference is made to deed of William Andros Barron, Jr., Trustee to Nancy Smith and Henry St. John Smith, Jr., dated Aug. 31, 1936,

recorded in said Registry in Book 1508, Page 83.

Also all the right, title and interest of said Henry St. John Smith, Jr. in and to the land, marked Douglass St. between Congress St. and Brighton Ave., so-called, as delineated on a "plan of property in Portland, Me. belonging to the J. B. Brown & Sons Corp. and the Heirs of St. John Smith," said plan being a part of Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 953 at Pages 83 to 99.

This conveyance of land marked Douglass St. is made upon the express condition that such land hereby conveyed shall be used only as a

public street, as delineated on the aforesaid plan.

Constance W. Smith, Guardian.

January 26, 1942 January 26, 1942 January 28, 1942

## CITY OF PORTLAND, GRANTEE

J. B. Brown & Sons

1659-6

To

Warrenty

City of Portland

\$ 2,100.00

Lots B. D. and E all being marked "To J.B.Brown & Sons" on a "plan of property in Portland, Waine belonging to the J. B. Brown & Sons and Heirs of St. John Smith" incorporated in Partition Proceedings recorded in Cumberland County Registry of Deeds in Book 958 at Pages 83 to 99, together with all the Grantors right, title and interest in and to any land covered by proposed streets delineated on said plan and which lie within the boundaries of the lots above enumerated, and which lie between lots C and K and lots C and D on said plan.

J. B. Brown & Sons by Harold Lee Berry, Pres. Philip G. Clifford, Treas.

November 4, 1941

November 4, 1941

November 7, 1941

#### CITY OF FORTLAND, GRANTED

Landon F. Marvin Executor of the Will of St. John Smith 1913 - 154

Executors

To

City of Portland

Beginning at a stake on the southerly side of a street sixty (60) feet wide defined and agreed upon in partition of the Smith and Brown farm so-called, of which plan and report of Commissioners is recorded in Cumberland County Registry of Deeds in Book 958, Page 83, said street extending westerly from St. James Street to Douglass Street and said stake being at the westerly corner of a lot of land of Portland Gas Company on the southerly side of said street; thence westerly by said street about seven-hundred seven (707) feet to a point within one-hundred six and five-tenths (106.5) feet of Douglass Street and to the northeasterly corner of land St. John Smith and J. B. Brown conveyed to George L. Hodgdon July 6, 1865; thence southerly by said Hodgdon lot and by Land, said Smith and Brown conveyed to G. W. Burnham, June 17, 1865, a total distance of about one-hundred and forty-one and five-tenths (141.5) feet; thence easterly by rear of lots fronting on Congress Street as now or formerly shown by an old fence line indicating what was formerly known as the division line between the City of Portland and the City of Deering about seven-hundred twelve (712) feet to a stone monument at the southwesterly corner of a lot of land owned by the Portland Cas Light Company on the southerly side of said street above mentioned, said monument being located by a right angle to said street from the stake at the point of beginning of this description and a distance of about ninety-five (95) feet from said stake; thence northeasterly about ninety-five (95) feet to the point of beginning.

Being lot "L" as shown on said plan and the 6th parcel conveyed by deed of Henry St. John Smith, et als, to J. Hopkins Smith dated September 11, 1916, and recorded in said Registry of Deeds in Book 975, Page 407.

Together with all my right title and interest in and to said street sixty (60) feet wide.

March 21, 1946

March 21, 1946

April 8, 1946

Langdon P. Marvin Executor of the Will of St. John Smith

## CITY OF PORTLAND, GRANTEE

St. John Smith of New York and James Hopkins Smith (formerly known as James Hopkins Smith, Jr) of Falmouth 1667 - 159

Marranty

To

City of Portland

The following described real estate situated in said

Portland, namely:

Lot K on a plan of property in Portland Maine belonging to the J. B. Brown & Sons Corporation and the Heirs of St. John Smith incorporated in the Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 958, at Pages 83 to 99, together with all our right, title and interest in and to any land covered by proposed streets delineated on said plan and which lie within the boundaries of the lot above named, and which lie between Lots C and K and Lots C and D on said plan.

Said Grantors are devisess under the last will and testament

of James Hopkins Smith, late of said Falmouth, deceased.

Also all the right title and interest of the Grantors in and to the lend marked Douglass Street between Congress Street and Brighton Avenue so-called, as delineated on amplan of property in Portland, Maine belonging to the J. B. Brown & Sons Corporation and the Heirs of St. John Smith, said plan being a part of Partition Proceedings recorded in the Cumberland County Registry of Deeds in Book 958 at Pages 83 to 99.

This conveyance of land marked Douglass Street is made upon the express condition that such land hereby conveyed shall be used only as a

public street, as delineated on the aforesaid plan.

St. John Smith

James Ropkins Smith

November 29, 1941

November 29, 1941

January 28, 1942

## Barbara Barhydt - Re: Agenda for Tuesday 9/14 DPS Development Review - Dougherty Field - Bike Racks

From:

Bruce Hyman

To:

Barbara Barhydt; Katherine Earley; Tom Errico

Date:

Tuesday, September 14, 2010 10:35 AM

Subject:

Re: Agenda for Tuesday 9/14 DPS Development Review - Dougherty Field - Bike Racks

Attachments:

Bike Rack Placement Guidelines\_Aug20-10.pdf

I did take a quick look at the Dougherty Field project. The Tech Stds aren't specific enough on several types of bike rack installations and configurations. I've started to work up a graphic that is much more specific (that we'll probably want a 'real' drafter to draw when completed). I've been seeing a bunch of racks installed in the public ROW w/o the correct clearances from the street, walls and from each other when multiple racks are installed.

Now, for Dougherty field, the spacing between the racks is not sufficient to meet good guidelines, but I think the Tech Stds are vague in this respect. Meeting the spacing requirements below would require the concrete pad to be enlarged slightly.

For the types of racks being specified (inverted U-rack) the clearances should be:

- for racks placed side by side, the min. distance should be 2'6"; recommended is 3' (to allow for bikes to be parked next to each other)
- for racks placed end to end, the min. distance on center from the racks should be 6'; 8' recommended (this allows bikes to be parked end to end without getting tangled up in each other) - the Dougherty plan shown meets the 6' min.

If both of the concrete pads/slabs specified was 5'x6' instead of 4'x6' and the spacing between racks increased slightly, it would be a better installation.

I've attached my fledgling graphic that illustrates the min. and desired spacings between different types of racks. I should add a detail for the type of installation envisioned at Dougherty.

Bruce

**Bruce Hyman, AICP** 

Bicycle & Pedestrian Program Coordinator

City of Portland 55 Portland Street Portland, Maine 04101 (207) 874-8833 office (207) 400-9243 cell

bhyman@portlandmaine.gov www.portlandmaine.gov www.healthyportland.org

>>> Katherine Earley 9/14/2010 9:40 AM >>> Got it - you have far more vital work to do in that time span today I'm sure! ;-))

>>> Bruce Hyman 9/14/2010 9:13 AM >>>

Other than Bayside TDM funds I don't see much that I might add value to or adds value to me.

From:

"David Senus" <dsenus@woodardcurran.com>

To:

"Jean Fraser" < JF@portlandmaine.gov>

CC:

"Barbara Barhydt" <BAB@portlandmaine.gov>, "Ethan Owens"

<EOWENS@portlandmaine.gov>, "Troy Moon" <THM@portlandmaine.gov>, "Sally

 $Deluca "<\!\!SLD@portlandmaine.gov\!\!>$ 

Date:

9/9/2010 4:15 PM

Subject:

RE: Dougherty Fields Site plan application

Thanks Jean.

As you mentioned, the Skate Park is and should continue to be under Ethan's name as applicant.

You can identify Troy Moon with DPS as the applicant for the full park improvements submission.

Troy Moon, Environmental Programs Manager City of Portland DPS 55 Portland Street Portland, Maine 04101

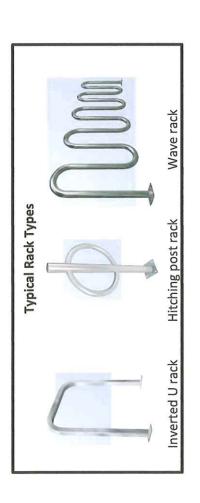
207-874-8467 (office) 207-874-8816 (fax)

THM@portlandmaine.gov

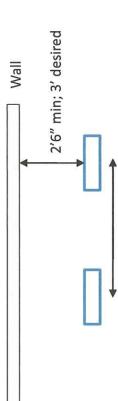
With regard to review comments, yes, that is me.

Thanks, Dave

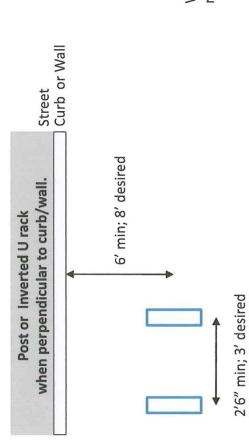
Walling of Song



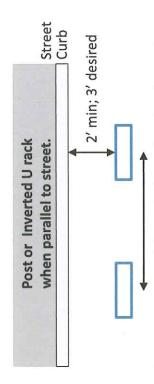
Post or Inverted U rack when parallel to wall.



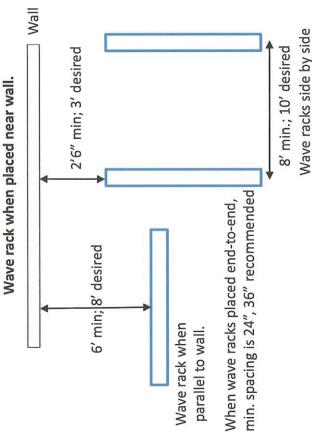
6' min. on center; 8' desired when placed end to end



on center when side-by-side



6' min. on center; 8' desired when placed end to end



**Bicycle Rack Placement Guidelines** 

# Appendix A Property Deeds

41 Hutchins Drive 'Portland, Maine 04102-www.woodardcurran.com

T 800.426.4262 T 207.774.4112 F 207.774.6635

## **MEMORANDUM**



TO: Jean Fraser, Planner FROM: David Senus, P.E.

DATE: September 3, 2010

RE: Stormwater Analysis for Dougherty Field Improvement Project in Portland, Maine

Woodard & Curran has analyzed the stormwater drainage of the Dougherty Field Improvements project, located in Portland, Maine, as part of the Level II Site Plan Application submission to the City of Portland. The following memo summarizes the existing drainage, proposed drainage infrastructure, and the results of our stormwater modeling. A HydroCAD model and Post-development Stormwater Plan of the site is attached.

The property is located between Douglass Street and St. James Street. Approximately 15-acres of the site is currently used as athletic fields with relatively flat slopes. The proposed realignment of the existing softball and baseball fields will not greatly affect the existing grading and drainage patterns, therefore these areas were not included in the stormwater analysis.

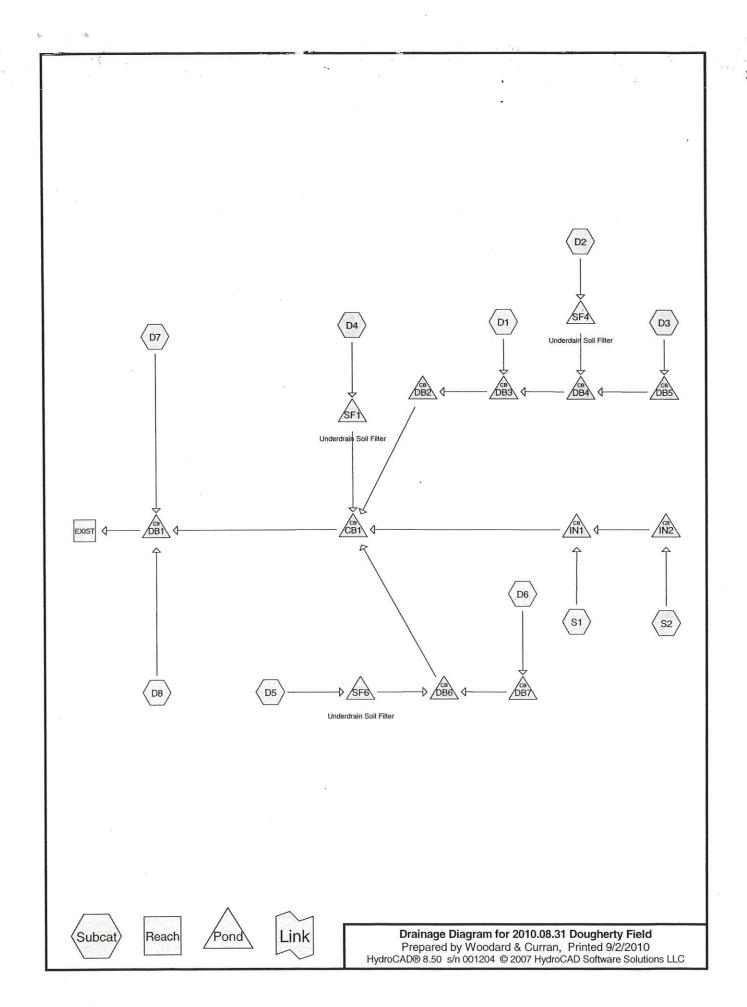
Overall, the project proposes a net increase in impervious area of approximately 3,000 sq ft. This considers the proposed trail network (stone dust & paved), skate park and expanded parking lot area, offset by the removal of the tennis court area. This small overall increase in impervious area spread across the 15 acre park site does not present a concern for a significant increase in runoff as a result of the project. We prepared a post development stormwater model to evaluate the flow that will enter the Edwards Street Sewer Interceptor, and not as a means of comparing pre and post conditions, an exercise which would require a broader and more detailed stormwater model which we felt to be unnecessary given the minor overall change to impervious area across the park.

The stormwater analysis focused on the area surrounding and including the new concrete skate park and redeveloped parking lot along St. James Street. The existing drainage infrastructure in this area consists of two 12-inch culverts, which discharge onto the adjacent Maine Department of Transportation (MDOT) property, and a field inlet, which connects to the Edwards Street Combined Sewer Interceptor.

The proposed drainage infrastructure includes seven area drains and one catch basin located at low spots surrounding the skate park. The area drains and catch basin are interconnected with 10-inch diameter SDR-35 pipe, the City of Portland's standard minimum pipe size for stormwater infrastructure. The proposed drainage infrastructure will tie into an existing buried manhole located along the property line between Dougherty Field and the MDOT property. The existing manhole is part of the Edwards Street Interceptor, which flows into the Old Almshouse Sewer. During high flow events, the overflow in the Edwards Street Interceptor and Old Almshouse Sewer discharges into Back Cove by way of the Preble Street Outfall (CSO 017). Initial discussions with John Emerson, City of Portland Wastewater Facilities Coordinator, indicated that the Edwards Street sewer interceptor had capacity to accept the project's drainage.

The proposed drainage improvements also include three small underdrain soil filters surrounding drain basins DB4, DB6 and catch basin CB1. These proposed soil filters will provide stormwater quality treatment and detain small volumes of runoff during storm events.

The site can be divided into eight subcatchment areas surrounding the skate park, each draining to a proposed drainage structure, and two small subcatchment areas within the skate park. The percentage of impervious surface area in each subcatchment ranges from 2.31% to 38.82%, excluding the two subcatchments within the skate park, which are 100% impervious. Impervious surfaces within the



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## Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Goup	Numbers
0.000	HSG A	
0.000	HSG B	· · · · · · · · · · · · · · · · · · ·
2.297	HSG C	D1, D2, D3, D4, D5, D6, D7, D8
0.000	HSG D	
0.478	Other	D1, D2, D3, D4, D5, D6, D7, D8, S1, S2
2.775		TOTAL AREA

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Type III 24-hr 2-Year Storm Rainfall=3.00"

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Pond DB5:

Peak Elev=27.27' Inflow=0.16 cfs 0.012 af

10.0" x 65.0' Culvert Outflow=0.16 cfs 0.012 af

Pond DB6:

Peak Elev=28.64' Inflow=0.92 cfs 0.062 af

10.0" x 114.0' Culvert Outflow=0.92 cfs 0.062 af

Pond DB7:

Peak Elev=28.60' Inflow=0.37 cfs 0.025 af

10.0" x 42.0' Culvert Outflow=0.37 cfs 0.025 af

Pond IN1:

Peak Elev=27.15' Inflow=0.05 cfs 0.003 af

6.0" x 100.0' Culvert Outflow=0.05 cfs 0.003 af

Pond IN2:

Peak Elev=30.09' Inflow=0.02 cfs 0.001 af

6.0" x 65.0' Culvert Outflow=0.02 cfs 0.001 af

Pond SF1: Underdrain Soil Filter

Peak Elev=30.02' Storage=161 cf Inflow=0.21 cfs 0.014 af

Primary=0.01 cfs 0.008 af Secondary=0.03 cfs 0.000 af Outflow=0.04 cfs 0.008 af

Pond SF4: Underdain Soil Filter

Peak Elev=30.06' Storage=221 cf Inflow=0.43 cfs 0.037 af

Primary=0.03 cfs 0.019 af Secondary=0.29 cfs 0.008 af Outflow=0.33 cfs 0.027 af

Pond SF6: Underdrain Soil Filter

Peak Elev=30.59' Storage=599 cf Inflow=0.78 cfs 0.047 af

Primary=0.03 cfs 0.016 af Secondary=0.54 cfs 0.021 af Outflow=0.56 cfs 0.037 af

Total Runoff Area = 2.775 ac Runoff Volume = 0.245 af Average Runoff Depth = 1.06" 82.77% Pervious = 2.297 ac 17.23% Impervious = 0.478 ac

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## **Summary for Subcatchment D2:**

Runoff

=

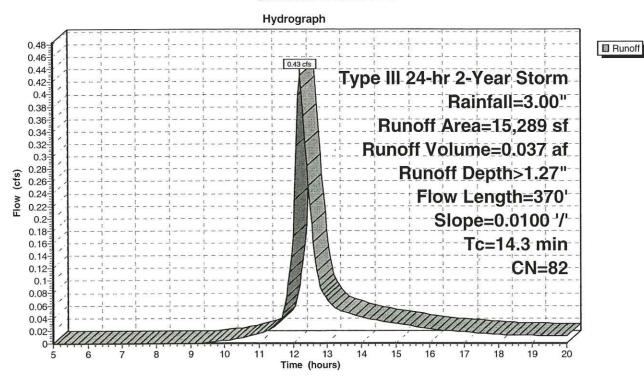
0.43 cfs @ 12.21 hrs, Volume=

0.037 af, Depth> 1.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-Year Storm Rainfall=3.00"

	Aı	rea (sf)	CN D	escription				
9,894 74 >75% Grass cover, Good, HSG C								
5,395 98 Paved parking & roofs								
	15,289 82 Weighted Average							
		9,894	P	ervious Ar	ea			
		5,395	· Ir	npervious	Area			
	Tc	Length	Slope	Velocity	Capacity	Description		
700	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Decompact		
	6.4	40	0.0100	0.10		Sheet Flow, A to B		
						Grass: Short n= 0.150 P2= 3.00"		
	7.9	330	0.0100	0.70		Shallow Concentrated Flow, B to C		
_						Short Grass Pasture Kv= 7.0 fps		
	14.3	370	Total					

#### Subcatchment D2:



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## **Summary for Subcatchment D4:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

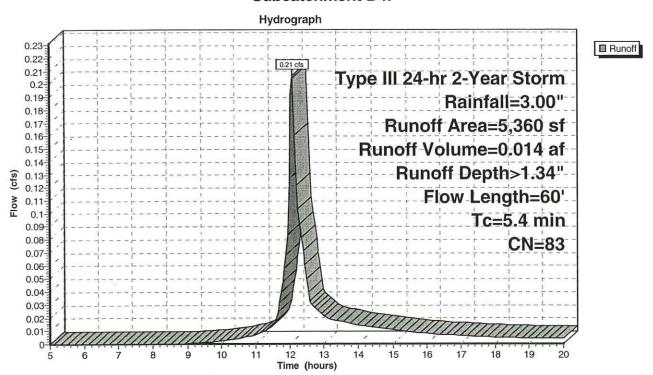
0.21 cfs @ 12.09 hrs, Volume=

0.014 af, Depth> 1.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-Year Storm Rainfall=3.00"

Aı	rea (sf)	CN [									
	3,279	74 >	75% Gras	s cover, Go	ood, HSG C						
 	2,081	98 F	Paved park	ing & roofs							
	5,360	83 \	Neighted A								
	3,279	F	Pervious Ar	ea							
	2,081	ı	mpervious	Area							
		01			5						
Tc	Length	Slope		Capacity	Description						
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
3.0	33	0.0450	0.18	£8	Sheet Flow, A to B						
					Grass: Short n= 0.150	P2= 3.00"					
2.4	27	0.0550	0.19		Sheet Flow, B to C						
					Grass: Short n= 0.150	P2= 3.00"					
5.4	60	Total				•					

#### Subcatchment D4:



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## **Summary for Subcatchment D6:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

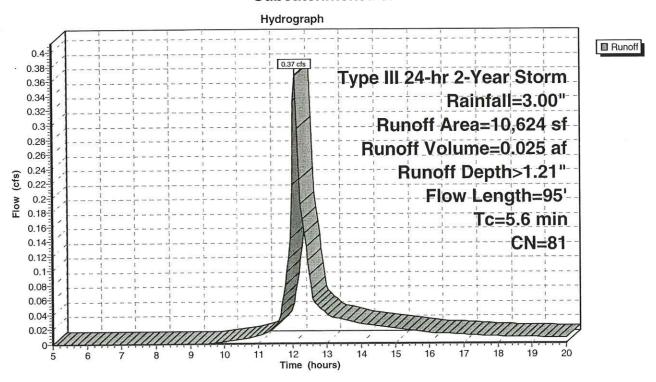
0.37 cfs @ 12.09 hrs, Volume=

0.025 af, Depth> 1.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-Year Storm Rainfall=3.00"

	Αı	rea (sf)	CN D	N Description							
		7,320	74 >	>75% Grass cover, Good, HSG C							
		3,304		Paved parking & roofs							
		10,624									
		7,320		Pervious Ar							
		3,304	-	mpervious							
	Tc	Length	Slope	Velocity	Capacity	Description					
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		_				
_	0.7	45	0.0200	1.14		Sheet Flow, A to B					
						Smooth surfaces n= 0.011 P2= 3.00"					
	4.9	50	0.0300	0.17		Sheet Flow, B to C					
		5.5				Grass: Short n= 0.150 P2= 3.00"	_				
-	5.6	95	Total								

#### Subcatchment D6:



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## **Summary for Subcatchment D8:**

Runoff

0.24 cfs @ 12.20 hrs, Volume=

0.021 af, Depth> 0.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-Year Storm Rainfall=3.00"

A	rea (sf)	CN D	escription		
	12,240	74 >	75% Grass	s cover, Go	ood, HSG C
	490	98 P	aved park	ing & roofs	
	12,730	75 W	eighted A	verage	
	12,240		ervious Ar		
	490	In	npervious	Area	
_		01	17-1	0	Description
Tc	Length	Slope	Velocity	Capacity	Description
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)	
7.7	50	0.0100	0.11		Sheet Flow, A to B
0.0	<b>F</b> 0	0.0000	0.05		Grass: Short n= 0.150 P2= 3.00"
3.3	50	0.0800	0.25		Sheet Flow, B to C Grass: Short n= 0.150 P2= 3.00"
1.2	100	0.0400	1.40		Shallow Concentrated Flow, C to D
1.2	100	0.0400	1.40		Short Grass Pasture Kv= 7.0 fps
0.2	50	0.0050	3.36	1.83	Circular Channel (pipe), D to E
0.2	30	0.0000	0.00	1.00	Diam= 10.0" Area= 0.5 sf Perim= 2.6' r= 0.21'
					n= 0.011 Concrete pipe, straight & clean
0.8	40	0.0147	0.85		Shallow Concentrated Flow, E to F
0.0		, <del></del>			Short Grass Pasture Kv= 7.0 fps
13.2	290	Total			T

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## **Summary for Subcatchment S1:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

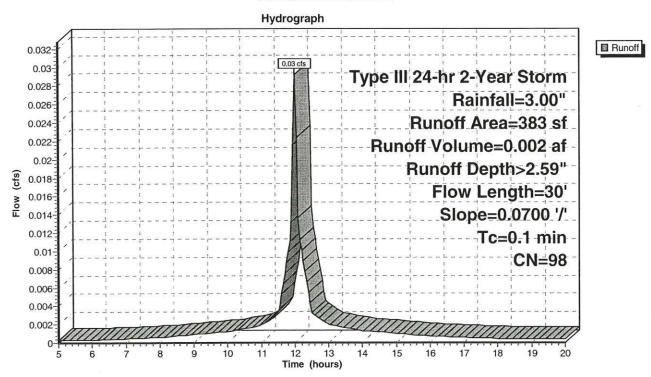
0.03 cfs @ 12.00 hrs, Volume=

0.002 af, Depth> 2.59"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-Year Storm Rainfall=3.00"

	Α	rea (sf)	CN	Description			
		383	98	Paved park	ing & roofs		
-		383		Impervious			
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description	
-	0.1	30	0.0700	5.37		Shallow Concentrated Flow, A to B Paved Kv= 20.3 fps	

#### Subcatchment S1:



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## **Summary for Reach EXIST:**

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 0.95" for 2-Year Storm event

Inflow

2.59 cfs @ 12.12 hrs, Volume=

0.220 af

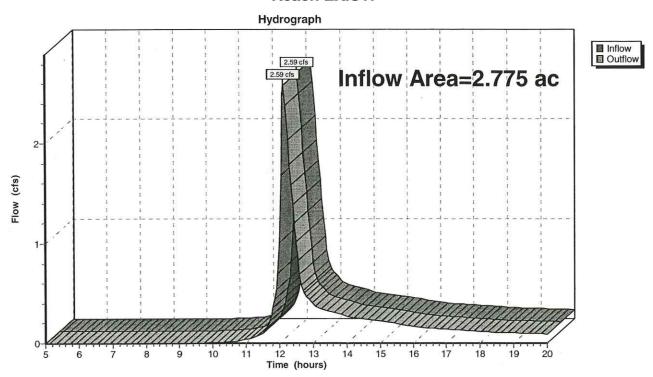
Outflow

2.59 cfs @ 12.12 hrs, Volume=

0.220 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

#### **Reach EXIST:**



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## **Summary for Pond DB1:**

[57] Hint: Peaked at 22.11' (Flood elevation advised)

[79] Warning: Submerged Pond CB1 Primary device # 1 OUTLET by 1.76'

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 0.95" for 2-Year Storm event

Inflow

2.59 cfs @ 12.12 hrs, Volume=

0.220 af

Outflow

2.59 cfs @ 12.12 hrs, Volume=

0.220 af, Atten= 0%, Lag= 0.0 min

Primary

2.59 cfs @ 12.12 hrs, Volume=

0.220 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 22.11' @ 12.12 hrs

Device Routing

Invert Outlet Devices

Primary

20.16

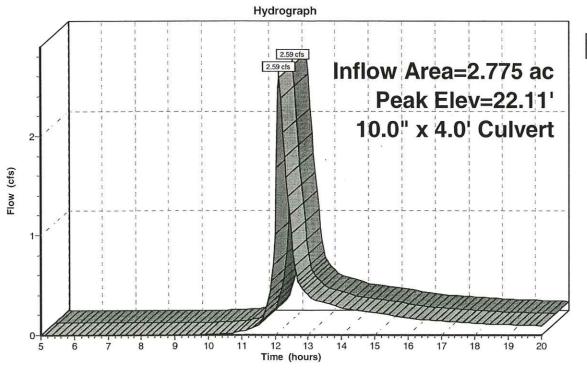
**10.0" x 4.0' long Culvert** CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 20.12' S= 0.0100 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=2.49 cfs @ 12.12 hrs HW=22.01' (Free Discharge) -1=Culvert (Inlet Controls 2.49 cfs @ 4.56 fps)

#### Pond DB1:





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## **Summary for Pond DB3:**

[81] Warning: Exceeded Pond DB4 by 0.09' @ 12.15 hrs

Inflow Area =

1.312 ac, 12.09% Impervious, Inflow Depth > 0.90" for 2-Year Storm event

Inflow

1.18 cfs @ 12.17 hrs, Volume=

0.098 af 0.098 af, Atten= 0%, Lag= 0.0 min

Outflow

1.18 cfs @ 12.17 hrs, Volume=

Primary

1.18 cfs @ 12.17 hrs, Volume=

0.098 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 27.29' @ 12.17 hrs

Flood Elev= 29.75'

Device Routing Invert Outlet Devices

Primary #1

26.51

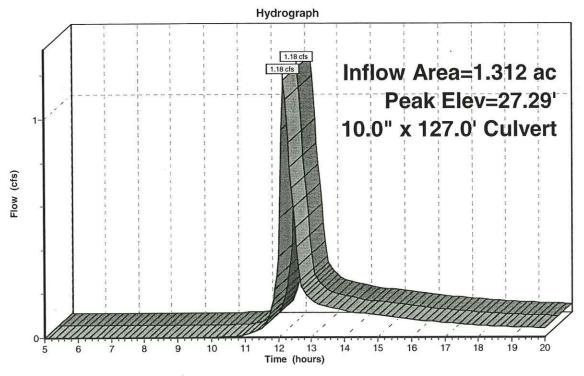
10.0" x 127.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 26.15' S= 0.0028 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

**Primary OutFlow** Max=1.15 cfs @ 12.17 hrs HW=27.28' (Free Discharge) -1=Culvert (Barrel Controls 1.15 cfs @ 2.87 fps)

#### Pond DB3:





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## **Summary for Pond DB5:**

Inflow Area =

0.141 ac, 11.23% Impervious, Inflow Depth > 0.98" for 2-Year Storm event

Inflow =

0.16 cfs @ 12.12 hrs, Volume=

0.012 af 0.012 af, Atten= 0%, Lag= 0.0 min

Outflow Primary 0.16 cfs @ 12.12 hrs, Volume= 0.16 cfs @ 12.12 hrs, Volume=

0.012 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 27.27' @ 12.12 hrs

Flood Elev= 29.50'

Device Routing #1 Primary

Invert Outlet Devices

27.02'

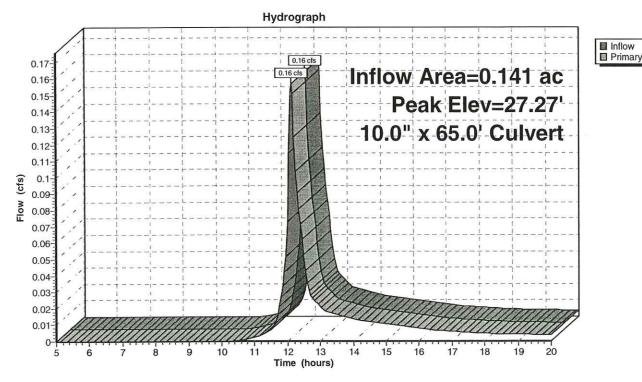
10.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 26.84' S= 0.0028 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.15 cfs @ 12.12 hrs HW=27.27' (Free Discharge) 1=Culvert (Barrel Controls 0.15 cfs @ 1.68 fps)

#### Pond DB5:



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## **Summary for Pond DB7:**

Inflow Area =

0.244 ac, 31.10% Impervious, Inflow Depth > 1.21" for 2-Year Storm event

Inflow

0.37 cfs @ 12.09 hrs, Volume=

0.025 af

Outflow

0.37 cfs @ 12.09 hrs, Volume=

0.025 af, Atten= 0%, Lag= 0.0 min

Primary

0.37 cfs @ 12.09 hrs, Volume=

0.025 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 28.60' @ 12.09 hrs

Flood Elev= 29.90'

Device Routing Invert Outlet Devices

#1 Primary 28.20

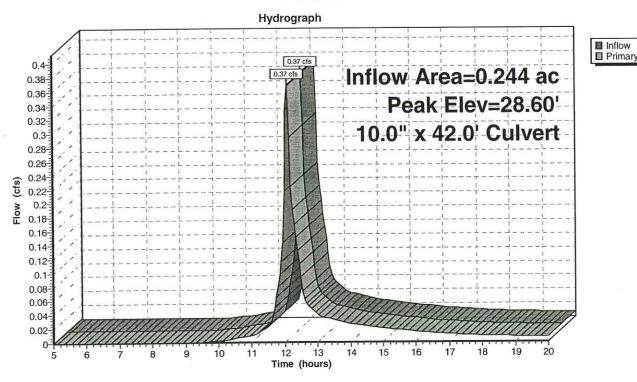
10.0" x 42.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 28.08' S= 0.0029 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.36 cfs @ 12.09 hrs HW=28.59' (Free Discharge) -1=Culvert (Barrel Controls 0.36 cfs @ 2.07 fps)

#### Pond DB7:



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## **Summary for Pond IN2:**

[82] Warning: Early inflow requires earlier time span

Inflow Area =

0.006 ac,100.00% Impervious, Inflow Depth > 2.59" for 2-Year Storm event

Inflow

0.02 cfs @ 12.00 hrs, Volume=

0.001 af

Outflow

0.02 cfs @ 12.00 hrs, Volume=

0.001 af, Atten= 0%, Lag= 0.0 min

Primary

Device

#1

0.02 cfs @ 12.00 hrs, Volume=

0.001 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 30.09' @ 12.00 hrs

Routing

Primary

Flood Elev= 31.50'

30.00

Invert Outlet Devices

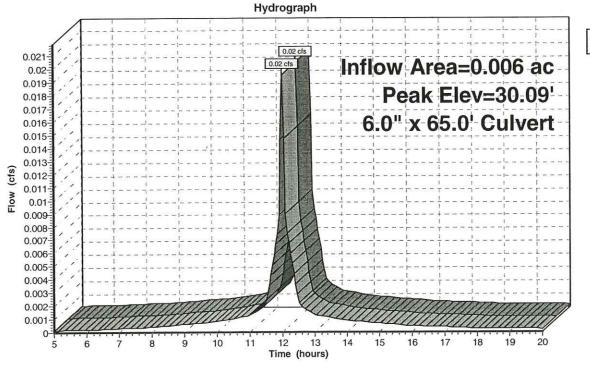
6.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 27.00' S= 0.0462 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.02 cfs @ 12.00 hrs HW=30.09' (Free Discharge) -1=Culvert (Inlet Controls 0.02 cfs @ 0.81 fps)

#### Pond IN2:

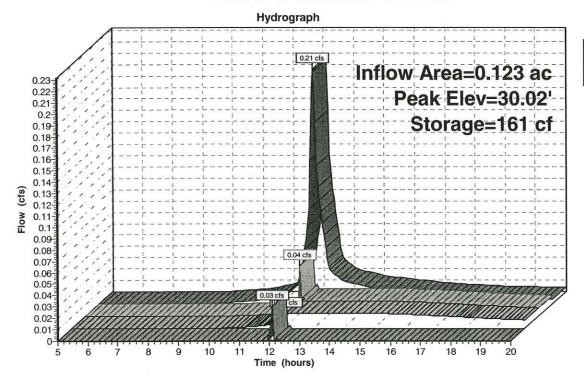




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## Pond SF1: Underdrain Soil Filter





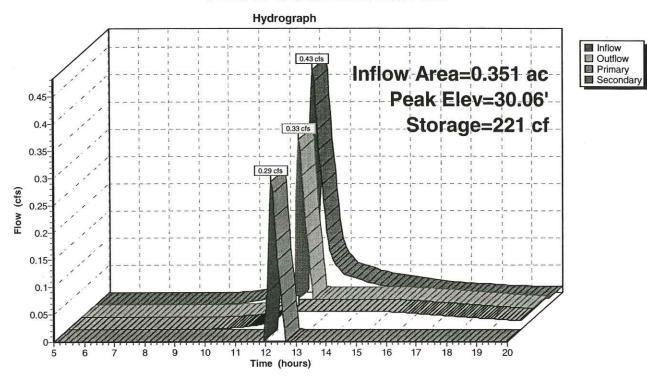
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#### Pond SF4: Underdain Soil Filter

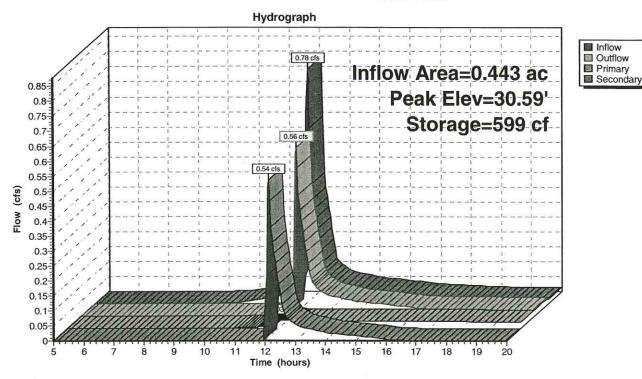


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## Pond SF6: Underdrain Soil Filter



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Type III 24-hr 10-Year Storm Rainfall=4.70"

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Pond DB5:

Peak Elev=27.41' Inflow=0.36 cfs 0.026 af

10.0" x 65.0' Culvert Outflow=0.36 cfs 0.026 af

Pond DB6:

Peak Elev=29.65' Inflow=2.20 cfs 0.138 af

10.0" x 114.0' Culvert Outflow=2.20 cfs 0.138 af

Pond DB7:

Peak Elev=28.81' Inflow=0.77 cfs 0.052 af

10.0" x 42.0' Culvert Outflow=0.77 cfs 0.052 af

Pond IN1:

Peak Elev=27.19' Inflow=0.08 cfs 0.005 af

6.0" x 100.0' Culvert Outflow=0.08 cfs 0.005 af

Pond IN2:

Peak Elev=30.11' Inflow=0.03 cfs 0.002 af

6.0" x 65.0' Culvert Outflow=0.03 cfs 0.002 af

Pond SF1: Underdrain Soil Filter

Peak Elev=30.05' Storage=161 cf Inflow=0.41 cfs 0.028 af

Primary=0.01 cfs 0.010 af Secondary=0.47 cfs 0.023 af Outflow=0.49 cfs 0.033 af

Pond SF4: Underdain Soil Filter

Peak Elev=30.13' Storage=221 cf Inflow=0.89 cfs 0.077 af

Primary=0.03 cfs 0.025 af Secondary=0.91 cfs 0.064 af Outflow=0.95 cfs 0.088 af

Pond SF6: Underdrain Soil Filter

Peak Elev=30.67' Storage=703 cf Inflow=1.60 cfs 0.097 af

Primary=0.03 cfs 0.019 af Secondary=1.41 cfs 0.068 af Outflow=1.44 cfs 0.086 af

Total Runoff Area = 2.775 ac Runoff Volume = 0.535 af Average Runoff Depth = 2.31" 17.23% Impervious = 0.478 ac 82.77% Pervious = 2.297 ac

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## **Summary for Subcatchment D2:**

Runoff

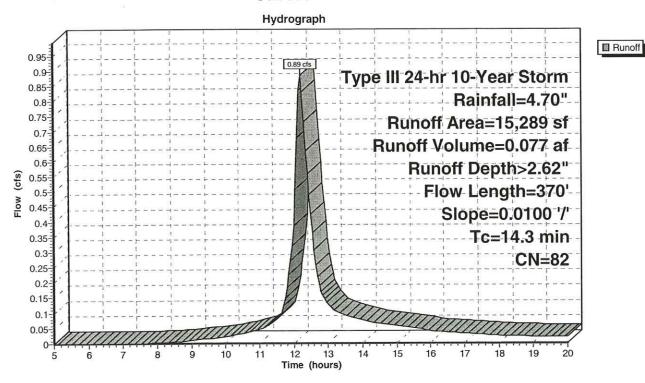
0.89 cfs @ 12.20 hrs, Volume=

0.077 af, Depth> 2.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-Year Storm Rainfall=4.70"

	Aı	rea (sf)	CN I	Description		4				
9,894 74 >75% Grass cover, Good, HSG C										
5,395 98 Paved parking & roofs										
15,289 82 Weighted Average										
9,894 Pervious Area										
		5,395	j	mpervious	Area					
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description				
-	6.4	40	0.0100	0.10		Sheet Flow, A to B				
	7.9	330	0.0100	0.70		Grass: Short n= 0.150 P2= 3.00"  Shallow Concentrated Flow, B to C  Short Grass Pasture Kv= 7.0 fps	9			
-	14.3	370	Total							

#### Subcatchment D2:



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## **Summary for Subcatchment D4:**

[49] Hint: Tc<2dt may require smaller dt

Runoff =

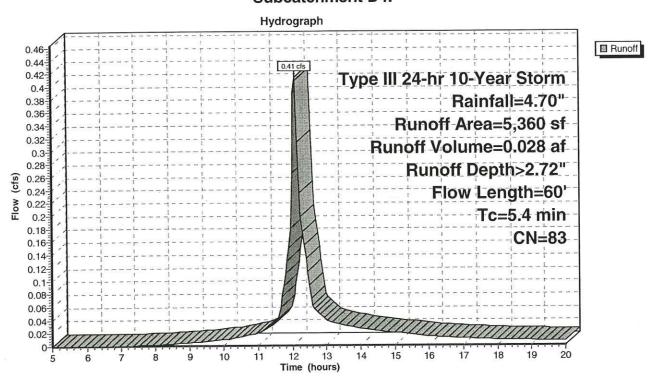
0.41 cfs @ 12.08 hrs, Volume=

0.028 af, Depth> 2.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-Year Storm Rainfall=4.70"

	Ar	rea (sf)	CN I	Description							
-		3,279	74 >	75% Gras	s cover, Go	ood, HSG C					
		2,081	98 I	Paved park	ing & roofs						
-		5,360	83 \	Weighted Average							
		3,279		Pervious Ar							
		2,081		mpervious	Area						
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description					
-	3.0	33	0.0450	0.18		Sheet Flow, A to B					
	2.4	27	0.0550	0.19		Grass: Short n= 0.150 Sheet Flow, B to C Grass: Short n= 0.150					
-	5.4	60	Total								

#### **Subcatchment D4:**



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## **Summary for Subcatchment D6:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

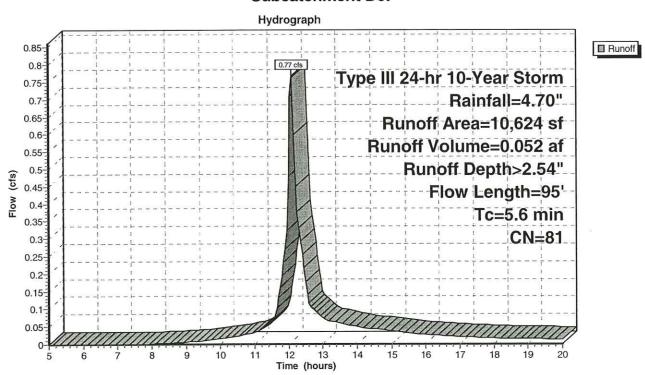
0.77 cfs @ 12.09 hrs, Volume=

0.052 af, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-Year Storm Rainfall=4.70"

	Aı	Area (sf) CN Description								
		7,320	74 >	75% Gras	s cover, Go	ood, HSG C				
		3,304 98 Paved parking & roofs								
10,624 81 Weighted Average										
		7,320	F	Pervious Ar	ea					
		3,304	I	mpervious	Area					
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
	0.7	45	0.0200	1.14		Sheet Flow, A to B				
	4.9	50	0.0300	0.17		Smooth surfaces n= 0.011 P2= 3.00"  Sheet Flow, B to C  Grass: Short n= 0.150 P2= 3.00"				
	5.6	95	Total							

#### Subcatchment D6:



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## **Summary for Subcatchment D8:**

Runoff

=

0.59 cfs @ 12.19 hrs, Volume=

0.050 af, Depth> 2.04"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-Year Storm Rainfall=4.70"

	Α	rea (sf)	CN [	Description		
		12,240	74 >	75% Gras	s cover, Go	ood, HSG C
		490	98 F	Paved park	ing & roofs	
		12,730		Veighted A		
		12,240		Pervious Ar		
		490	ı	mpervious	Area	
	Tc (min)	Length (feet)		Velocity (ft/sec)	Capacity (cfs)	Description
	7.7	50	0.0100	0.11		Sheet Flow, A to B
						Grass: Short n= 0.150 P2= 3.00"
	3.3	50	0.0800	0.25		Sheet Flow, B to C
	4.0	400	0.0400	1 40		Grass: Short n= 0.150 P2= 3.00"
	1.2	100	0.0400	1.40		Shallow Concentrated Flow, C to D
	0.2	50	0.0050	3.36	1.83	Short Grass Pasture Kv= 7.0 fps Circular Channel (pipe), D to E
	0.2	30	0.0000	0.00	1.00	Diam= 10.0" Area= 0.5 sf Perim= 2.6' r= 0.21'
						n= 0.011 Concrete pipe, straight & clean
	0.8	40	0.0147	0.85		Shallow Concentrated Flow, E to F
						Short Grass Pasture Kv= 7.0 fps
115	13.2	290	) Total			

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#### \*

**Summary for Subcatchment S1:** 

[49] Hint: Tc<2dt may require smaller dt

Runoff

0.0

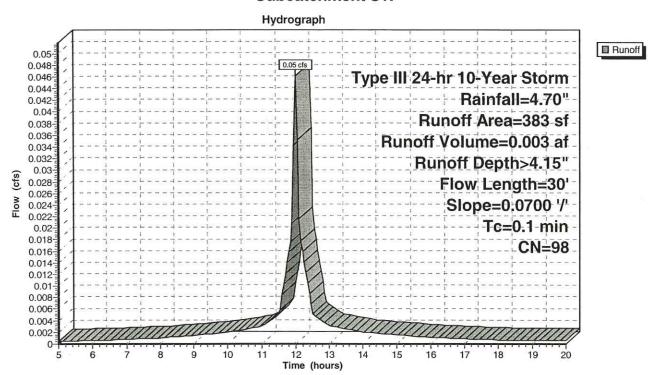
0.05 cfs @ 12.00 hrs, Volume=

0.003 af, Depth> 4.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-Year Storm Rainfall=4.70"

	Α	rea (sf)	CN	Description			
383 98 Paved parking & roof							
383 Impervious Area							
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description	
	0.1	30	0.0700	5.37		Shallow Concentrated Flow, A to B	

#### **Subcatchment S1:**



## **Summary for Reach EXIST:**

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 2.34" for 10-Year Storm event

Inflow

6.57 cfs @ 12.11 hrs, Volume=

0.541 af

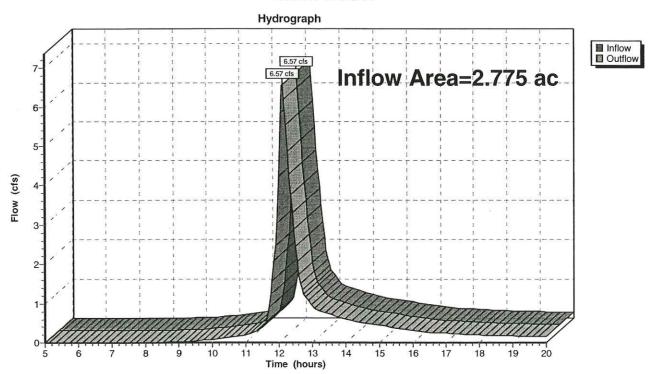
Outflow

6.57 cfs @ 12.11 hrs, Volume=

0.541 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

#### Reach EXIST:



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#### **Summary for Pond DB1:**

[57] Hint: Peaked at 30.62' (Flood elevation advised)

[79] Warning: Submerged Pond CB1 Primary device # 1 INLET by 4.86'

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 2.34" for 10-Year Storm event

Inflow =

6.57 cfs @ 12.11 hrs, Volume=

0.541 af

Outflow :

6.57 cfs @ 12.11 hrs, Volume=

0.541 af, Atten= 0%, Lag= 0.0 min

Primary =

6.57 cfs @ 12.11 hrs, Volume=

0.541 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 30.62' @ 12.11 hrs

Device Routing

Invert Outlet Devices

#1 Primary

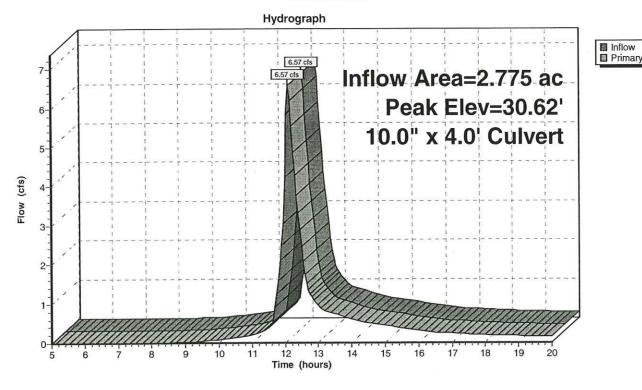
20.16' **10.0" x 4.0' long Culvert** CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 20.12' S= 0.0100 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

a @ 12.11 bro UW\_20.41 (Froe Discharge

Primary OutFlow Max=6.50 cfs @ 12.11 hrs HW=30.41' (Free Discharge) 1=Culvert (Inlet Controls 6.50 cfs @ 11.92 fps)

#### Pond DB1:



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## **Summary for Pond DB3:**

[81] Warning: Exceeded Pond DB4 by 1.68' @ 12.15 hrs

Inflow Area =

1.312 ac, 12.09% Impervious, Inflow Depth > 2.32" for 10-Year Storm event

Inflow

3.00 cfs @ 12.17 hrs, Volume=

0.254 af

Outflow

3.00 cfs @ 12.17 hrs, Volume=

0.254 af, Atten= 0%, Lag= 0.0 min

Primary

0.254 af

3.00 cfs @ 12.17 hrs, Volume=

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 29.28' @ 12.17 hrs

Primary

Flood Elev= 29.75'

Routing Device

#1

Invert Outlet Devices

26.51'

**10.0" x 127.0' long Culvert** CPP, projecting, no headwall, Ke= 0.900

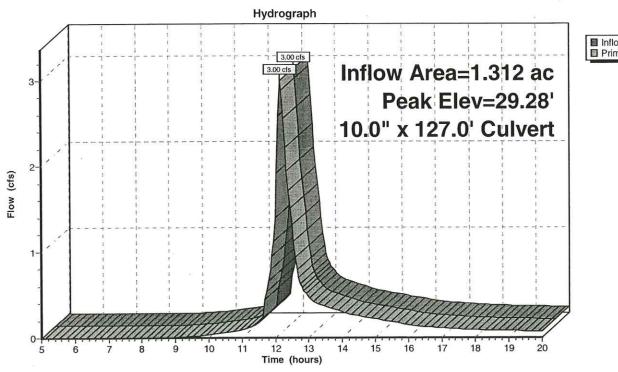
Outlet Invert= 26.15' S= 0.0028 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=2.95 cfs @ 12.17 hrs HW=29.21' (Free Discharge)

-1=Culvert (Barrel Controls 2.95 cfs @ 5.40 fps)

#### Pond DB3:





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## **Summary for Pond DB5:**

Inflow Area =

0.141 ac, 11.23% Impervious, Inflow Depth > 2.20" for 10-Year Storm event

Inflow

0.36 cfs @ 12.12 hrs, Volume=

0.026 af

Outflow

0.36 cfs @ 12.12 hrs, Volume=

0.026 af, Atten= 0%, Lag= 0.0 min

Primary

0.36 cfs @ 12.12 hrs, Volume=

0.026 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 27.41' @ 12.12 hrs

Primary

Flood Elev= 29.50'

Device Routing

#1

Invert **Outlet Devices** 

27.02

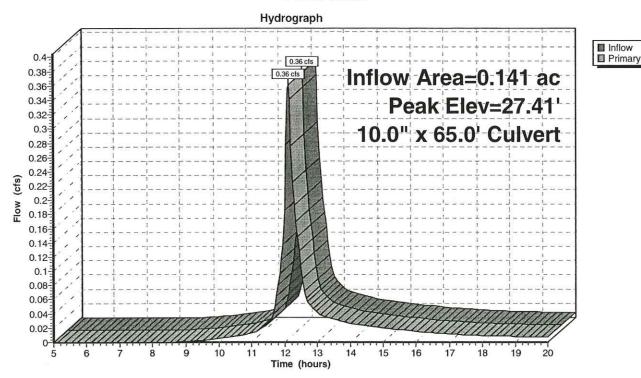
10.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 26.84' S= 0.0028 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.35 cfs @ 12.12 hrs HW=27.41' (Free Discharge) 1=Culvert (Barrel Controls 0.35 cfs @ 2.09 fps)

#### Pond DB5:



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## **Summary for Pond DB7:**

Inflow Area =

0.244 ac, 31.10% Impervious, Inflow Depth > 2.54" for 10-Year Storm event

Inflow

0.77 cfs @ 12.09 hrs, Volume=

0.052 af

Outflow

0.77 cfs @ 12.09 hrs, Volume=

0.052 af, Atten= 0%, Lag= 0.0 min

Primary

0.77 cfs @ 12.09 hrs, Volume=

0.052 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 28.81' @ 12.09 hrs

Flood Elev= 29.90'

Device Routing Invert **Outlet Devices** 

#1 Primary 28.20

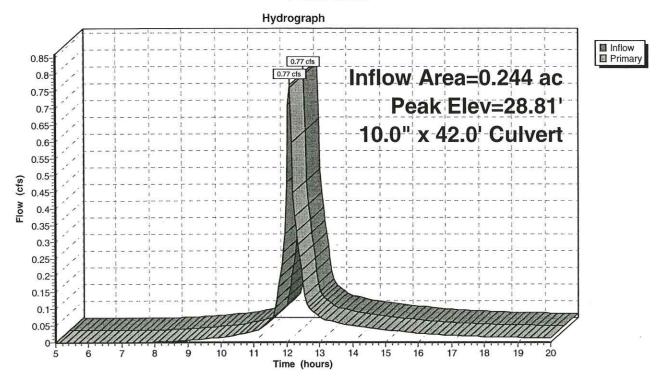
10.0" x 42.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 28.08' S= 0.0029 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=28.80' (Free Discharge) 1=Culvert (Barrel Controls 0.75 cfs @ 2.48 fps)

#### Pond DB7:



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## **Summary for Pond IN2:**

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.006 ac,100.00% Impervious, Inflow Depth > 4.15" for 10-Year Storm event

Inflow = 0.03 cfs @ 12.00 hrs, Volume= 0.002 af

Outflow = 0.03 cfs @ 12.00 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min

Primary = 0.03 cfs @ 12.00 hrs, Volume= 0.002 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

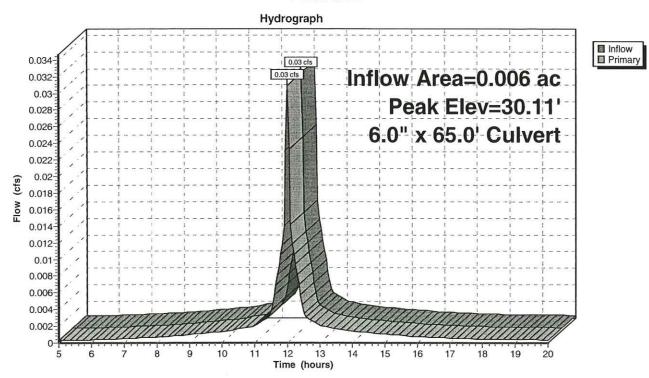
Peak Elev= 30.11' @ 12.00 hrs

Flood Elev= 31.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	30.00'	6.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 27.00' S= 0.0462 '/' Cc= 0.900 n= 0.010 PVC smooth interior

Primary OutFlow Max=0.03 cfs @ 12.00 hrs HW=30.11' (Free Discharge)
1=Culvert (Inlet Controls 0.03 cfs @ 0.91 fps)

#### Pond IN2:



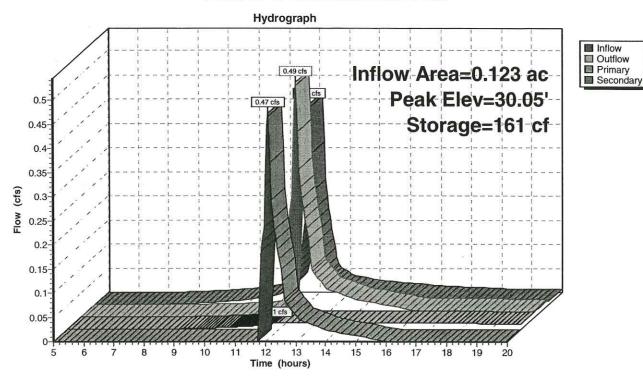
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#### Pond SF1: Underdrain Soil Filter



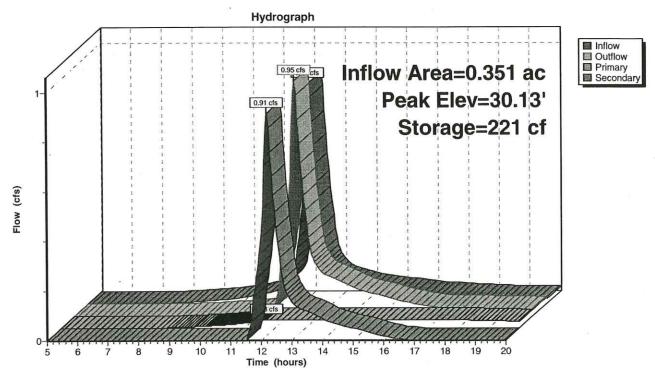
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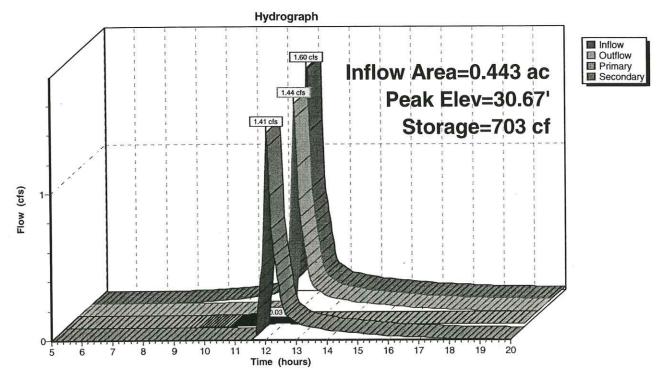
## Pond SF4: Underdain Soil Filter



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## Pond SF6: Underdrain Soil Filter



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Type III 24-hr 25-Year Storm: Rainfall=5.50"

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Pond DB5:

Peak Elev=27.47' Inflow=0.46 cfs 0.033 af

10.0" x 65.0' Culvert Outflow=0.46 cfs 0.033 af

Pond DB6:

Peak Elev=30.31' Inflow=2.76 cfs 0.176 af 10.0" x 114.0' Culvert Outflow=2.76 cfs 0.176 af

Pond DB7:

Peak Elev=28.91' Inflow=0.97 cfs 0.065 af 10.0" x 42.0' Culvert Outflow=0.97 cfs 0.065 af

Pond IN1:

Peak Elev=27.20' Inflow=0.09 cfs 0.006 af 6.0" x 100.0' Culvert Outflow=0.09 cfs 0.006 af

Pond IN2:

Peak Elev=30.12' Inflow=0.04 cfs 0.002 af 6.0" x 65.0' Culvert Outflow=0.04 cfs 0.002 af

Pond SF1: Underdrain Soil Filter

Peak Elev=30.05' Storage=161 cf Inflow=0.51 cfs 0.035 af Primary=0.01 cfs 0.011 af Secondary=0.49 cfs 0.016 af Outflow=0.50 cfs 0.027 af

Pond SF4: Underdain Soil Filter

Peak Elev=30.14' Storage=221 cf Inflow=1.11 cfs 0.097 af

Primary=0.03 cfs 0.027 af Secondary=1.05 cfs 0.056 af Outflow=1.09 cfs 0.083 af

Pond SF6: Underdrain Soil Filter

Peak Elev=30.70' Storage=741 cf Inflow=2.00 cfs 0.122 af

Primary=0.03 cfs 0.020 af Secondary=1.78 cfs 0.091 af Outflow=1.82 cfs 0.111 af

Total Runoff Area = 2.775 ac Runoff Volume = 0.684 af Average Runoff Depth = 2.96" 82.77% Pervious = 2.297 ac 17.23% Impervious = 0.478 ac

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## **Summary for Subcatchment D2:**

Runoff

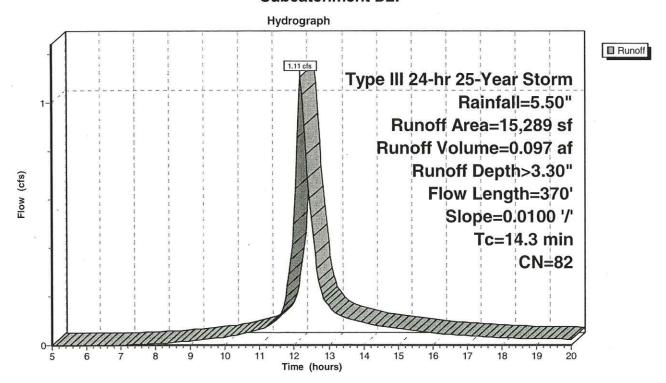
1.11 cfs @ 12.20 hrs, Volume=

0.097 af, Depth> 3.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-Year Storm Rainfall=5.50"

	A	rea (sf)	CN D	escription			
		9,894	74 >	75% Grass	s cover, Go	ood, HSG C	
		5,395	98 F	aved park	ing & roofs		
38-		15,289	82 V	Veighted A	verage		
		9,894	F	Pervious Ar	ea		
		5,395	li	mpervious	Area		
			_	500	5		
	Tc	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	6.4	40	0.0100	0.10		Sheet Flow, A to B	
						Grass: Short n= 0.150 P2= 3.00"	
	7.9	330	0.0100	0.70		Shallow Concentrated Flow, B to C	
						Short Grass Pasture Kv= 7.0 fps	
-	14.3	370	Total				

#### Subcatchment D2:



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## **Summary for Subcatchment D4:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

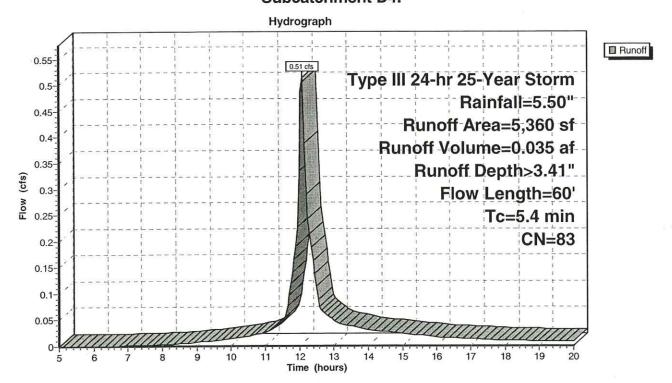
0.51 cfs @ 12.08 hrs, Volume=

0.035 af, Depth> 3.41"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-Year Storm Rainfall=5.50"

	A	rea (sf)	CN E	Description					
		3,279	74 >	75% Gras	s cover, Go	ood, HSG C			
		2,081	98 F	Paved park	ing & roofs	16°			
		5,360	83 V	Veighted A	verage				
		3,279	F	Pervious Ar	ea				
		2,081	l:	mpervious	Area				
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		.* 	,
	3.0	33	0.0450	0.18		Sheet Flow, A to B			
						Grass: Short n= 0.150	P2=3.00"		
	2.4	27	0.0550	0.19		Sheet Flow, B to C			
_						Grass: Short n= 0.150	P2= 3.00"		
-	5.4	60	Total						

#### Subcatchment D4:



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## **Summary for Subcatchment D6:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

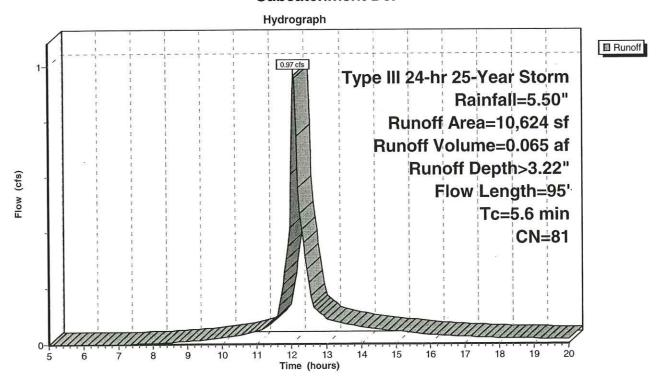
0.97 cfs @ 12.09 hrs, Volume=

0.065 af, Depth> 3.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-Year Storm Rainfall=5.50"

	Aı	rea (sf)	CN [	Description		¥
-		7,320	74 >	75% Grass	s cover, Go	ood, HSG C
		3,304	98 F	Paved park	ng & roofs	
		10,624	81 \	<b>Neighted A</b>	verage	
		7,320	F	Pervious Ar	ea	
		3,304	Į	mpervious	Area	
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description
-	0.7	45	0.0200	1.14		Sheet Flow, A to B
	4.9	50	0.0300	0.17		Smooth surfaces n= 0.011 P2= 3.00"  Sheet Flow, B to C  Grass: Short n= 0.150 P2= 3.00"
	5.6	95	Total	•		

#### Subcatchment D6:



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## **Summary for Subcatchment D8:**

Runoff

=

0.77 cfs @ 12.19 hrs, Volume=

0.065 af, Depth> 2.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-Year Storm Rainfall=5.50"

	Α	rea (sf)	CN D	escription		
•		12,240	74 >	75% Grass	s cover, Go	ood, HSG C
		490			ing & roofs	
		12,730		Veighted A	_	
		12,240 490		ervious Ar npervious	7.75.175.0	
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	7.7	50	0.0100	0.11		Sheet Flow, A to B
						Grass: Short n= 0.150 P2= 3.00"
	3.3	50	0.0800	0.25		Sheet Flow, B to C
						Grass: Short n= 0.150 P2= 3.00"
	1.2	100	0.0400	1.40		Shallow Concentrated Flow, C to D
	121.12					Short Grass Pasture Kv= 7.0 fps
	0.2	50	0.0050	3.36	1.83	
						Diam= 10.0" Area= 0.5 sf Perim= 2.6' r= 0.21'
			0 0 1 1 =			n= 0.011 Concrete pipe, straight & clean
	8.0	40	0.0147	0.85		Shallow Concentrated Flow, E to F
_						Short Grass Pasture Kv= 7.0 fps
	13.2	290	Total			

## **Summary for Subcatchment S1:**

[49] Hint: Tc<2dt may require smaller dt

Runoff

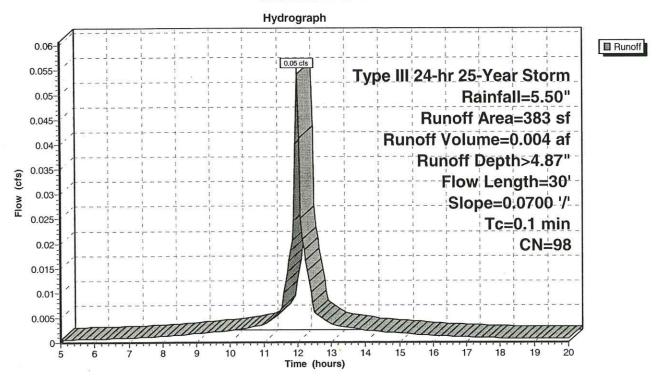
0.05 cfs @ 12.00 hrs, Volume=

0.004 af, Depth> 4.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-Year Storm Rainfall=5.50"

	Aı	rea (sf)	CN E	Description			
		383	98 F	aved park	ing & roofs	8	
_	0.67	383	lı	mpervious	Area		
							•
	Tc	Length	Slope		Capacity	Description	
-	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
-	0.1	30	0.0700	5.37		Shallow Concentrated Flow, A to B	
						Payed Ky-20.3 fns	

#### Subcatchment S1:



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## **Summary for Reach EXIST:**

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 2.82" for 25-Year Storm event

Inflow

8.18 cfs @ 12.11 hrs, Volume=

0.651 af

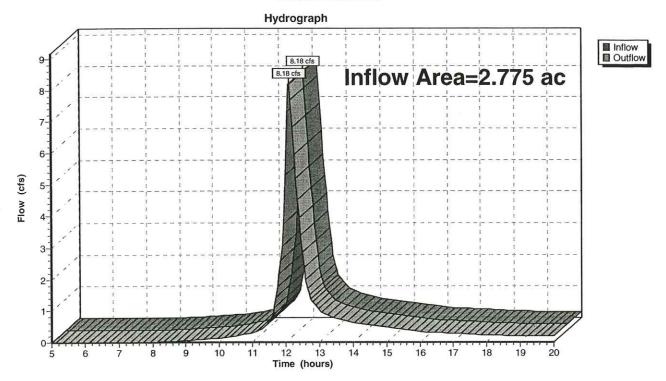
Outflow

8.18 cfs @ 12.11 hrs, Volume=

0.651 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

#### **Reach EXIST:**



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## **Summary for Pond DB1:**

[57] Hint: Peaked at 36.15' (Flood elevation advised)

[81] Warning: Exceeded Pond CB1 by 0.37' @ 12.10 hrs

Inflow Area =

2.775 ac, 17.23% Impervious, Inflow Depth > 2.82" for 25-Year Storm event

Inflow

8.18 cfs @ 12.11 hrs, Volume=

0.651 af

Outflow

8.18 cfs @ 12.11 hrs, Volume=

0.651 af, Atten= 0%, Lag= 0.0 min

Primary

Device

8.18 cfs @ 12.11 hrs, Volume=

0.651 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 36.15' @ 12.11 hrs

Invert Outlet Devices

Routing #1 Primary

20.16

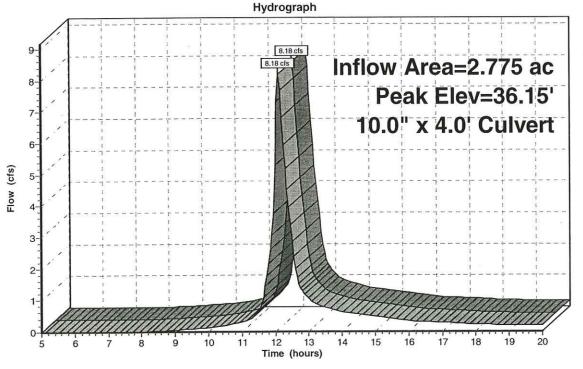
10.0" x 4.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 20.12' S= 0.0100 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=8.11 cfs @ 12.11 hrs HW=35.86' (Free Discharge) -1=Culvert (Inlet Controls 8.11 cfs @ 14.86 fps)

#### Pond DB1:





2010.08.31 Dougherty Field

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## **Summary for Pond DB3:**

[58] Hint: Peaked 0.85' above defined flood level

[81] Warning: Exceeded Pond DB4 by 2.86' @ 12.15 hrs

Inflow Area =

1.312 ac, 12.09% Impervious, Inflow Depth > 2.72" for 25-Year Storm event

Inflow

3.76 cfs @ 12.16 hrs, Volume=

0.298 af

Outflow

3.76 cfs @ 12.16 hrs, Volume=

0.298 af, Atten= 0%, Lag= 0.0 min

Primary =

3.76 cfs @ 12.16 hrs, Volume=

0.298 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 30.60' @ 12.16 hrs

Flood Elev= 29.75'

Device Routing

Invert Outlet Devices

#1 Primary

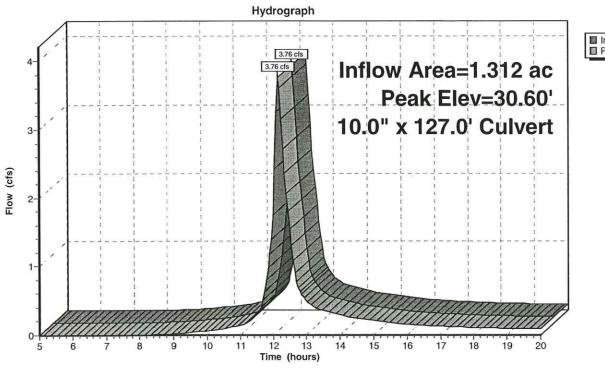
26.51' **10.0" x 127.0' long Culvert** CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 26.15' S= 0.0028 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=3.70 cfs @ 12.16 hrs HW=30.49' (Free Discharge) 1=Culvert (Barrel Controls 3.70 cfs @ 6.78 fps)

#### Pond DB3:





## 2010.08.3 ₱ Dougherty Field

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## **Summary for Pond DB5:**

Inflow Area =

0.141 ac, 11.23% Impervious, Inflow Depth > 2.84" for 25-Year Storm event

Inflow

0.46 cfs @ 12.12 hrs, Volume=

0.033 af

Outflow

0.46 cfs @ 12.12 hrs, Volume=

0.033 af, Atten= 0%, Lag= 0.0 min

Primary

0.46 cfs @ 12.12 hrs, Volume=

0.033 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 27.47' @ 12.12 hrs

Flood Elev= 29.50'

Device Routing

Invert Outlet Devices

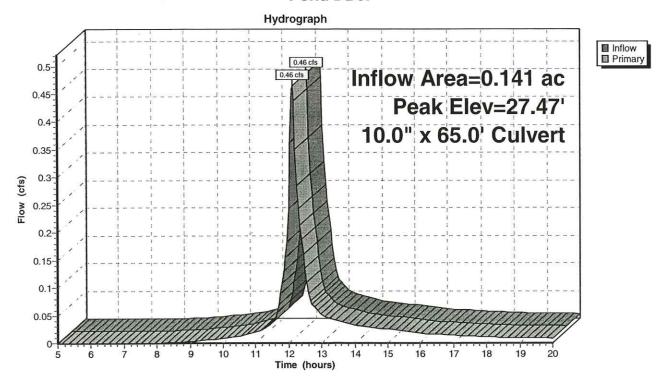
#1 Primary 27.02

10.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 26.84' S= 0.0028 '/' Cc= 0.900 n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.45 cfs @ 12.12 hrs HW=27.46' (Free Discharge) 1=Culvert (Barrel Controls 0.45 cfs @ 2.22 fps)

#### Pond DB5:



## 2010.08.31 Dougherty Field

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## **Summary for Pond DB7:**

Inflow Area =

0.244 ac, 31.10% Impervious, Inflow Depth > 3.22" for 25-Year Storm event

Inflow =

0.97 cfs @ 12.09 hrs, Volume=

0.065 af 0.065 af, Atten= 0%, Lag= 0.0 min

Outflow

0.97 cfs @ 12.09 hrs, Volume=

0.005 al, Alleli= 076

Primary :

0.97 cfs @ 12.09 hrs, Volume=

0.065 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 28.91' @ 12.09 hrs

Flood Elev= 29.90'

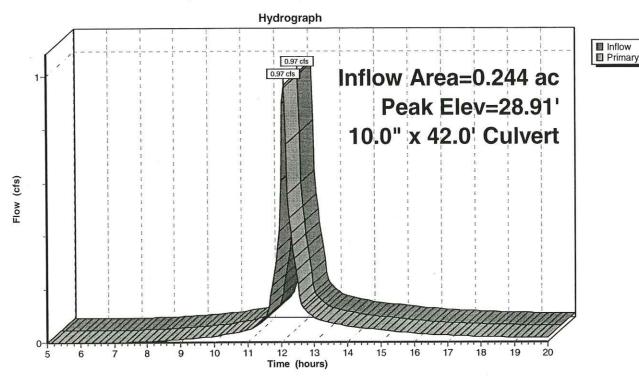
Device Routing Invert Outlet Devices

#1 Primary

28.20' Invert CPP, projecting, no headwall, Ke= 0.900
Outlet Invert= 28.08' S= 0.0029 '/' Cc= 0.900
n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=28.89' (Free Discharge) 1=Culvert (Barrel Controls 0.94 cfs @ 2.62 fps)

#### Pond DB7:



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## **Summary for Pond IN2:**

[82] Warning: Early inflow requires earlier time span

Inflow Area =

0.006 ac,100.00% Impervious, Inflow Depth > 4.87" for 25-Year Storm event

Inflow

0.04 cfs @ 12.00 hrs, Volume=

0.002 af 0.002 af, Atten= 0%, Lag= 0.0 min

Outflow

0.04 cfs @ 12.00 hrs, Volume=

Primary

0.04 cfs @ 12.00 hrs, Volume=

0.002 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 30.12' @ 12.00 hrs

Flood Elev= 31.50'

Routing Device #1 Primary

**Outlet Devices** Invert

30.001

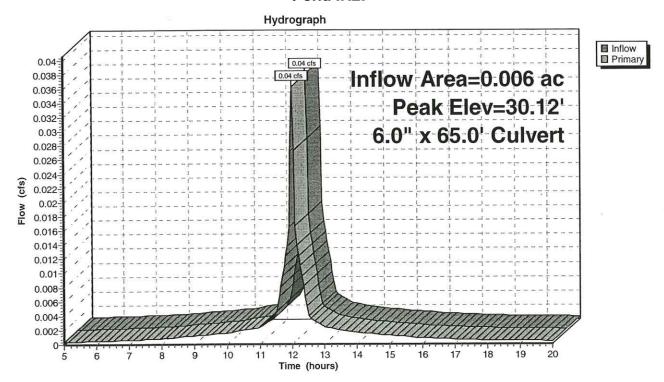
6.0" x 65.0' long Culvert CPP, projecting, no headwall, Ke= 0.900

Outlet Invert= 27.00' S= 0.0462 '/' Cc= 0.900

n= 0.010 PVC, smooth interior

Primary OutFlow Max=0.04 cfs @ 12.00 hrs HW=30.12' (Free Discharge) -1=Culvert (Inlet Controls 0.04 cfs @ 0.95 fps)

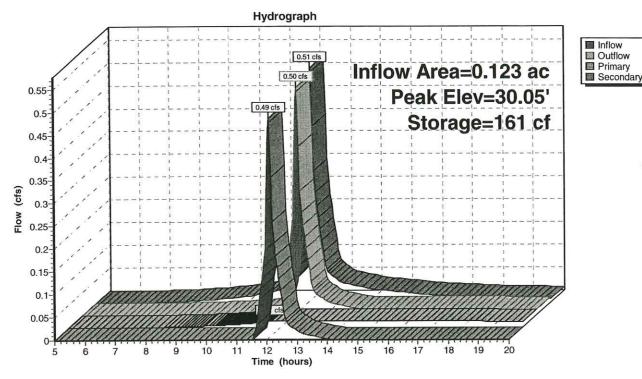
#### Pond IN2:



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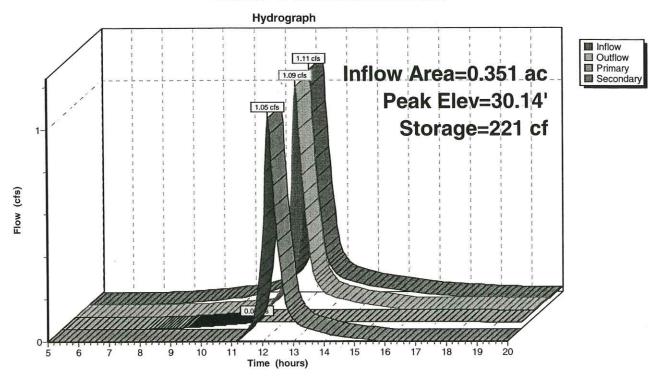
## Pond SF1: Underdrain Soil Filter



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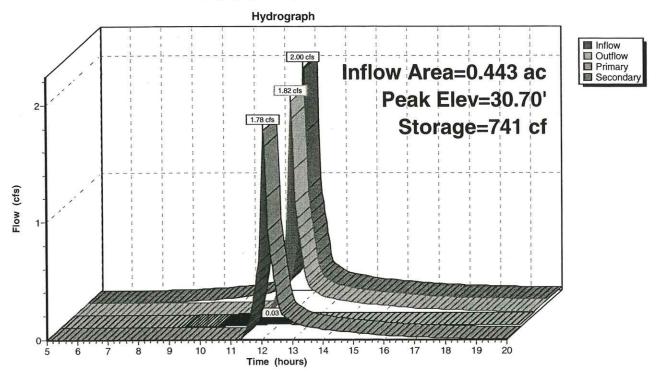
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## Pond SF4: Underdain Soil Filter



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## Pond SF6: Underdrain Soil Filter



## Appendix E

Communications with DEP & Soils Report from Peterson Rabasca



# CITY OF PORTLAND Parks & Recreation Department

Nancy A. Geer Recreation Administrator

Carol McClure Operations Manager

Donn Mathews Parks Coordinator

Jeff Tarling City Arborist

Christopher DiMatteo Landscape Architect

James E. Kelley Principal Financial Officer

Cemetery Coordinator 797-4597

John Wone Athletic Facilities Coordinator

Sally DeLuca Program Coordinator

Marie Davis Sweatt Aquatics Supervisor 874-8456

Keith Hansen Adult & Senior Program Coordinator

Gina L. Ripley Safety Coordinator

David Venditti Portland Ice Arena 774-8553

Riverside Municipal Golf Course 797-3524

Dan Brown P.D.D. Coordinator

Reiche Community Center 874-8873

Riverton Community Center 874-8455

Cummings Community Center 874-8870

Peaks Island Community Center 766-2970 January 9, 2001

Mr. Randy McMullin
Maine Department of Environmental Protection
312 Canco Road
Portland, ME 04103

RE: Dougherty Field - Master Plan

5

Dear Mr. McMullin:

Please review the enclosed project summary of the proposed improvements at Dougherty Field. This summary, prepared by our consultant Peterson-Rabasca Geoengineers, is being forwarded in response to our December 14, 2000 meeting.

The proposed improvements are being planned in direct response to the deteriorating condition of these facilities and the growing demand for athletic facilities. Local residents and area athletic program leaders participated in the planning process for the reconstruction of this facility and endorse the proposed improvements.

The subsurface investigations conducted on this site show that the existing conditions are not appreciably different from other park properties in the City of Portland, and our Department is prepared to utilize appropriate construction methods in handling any exposed ash materials.

If you have any questions please feel free to contact me at 874-8793 or by email at sch@ci.portland.me.us.

Sincerely

Stephan C. Howick

Enc.

CC.

Gloria Thomas, Portland Parks and Recreation Christopher DiMatteo, Portland Parks and Recreation

## **Proposed Master Plan Improvements:**

The proposed master planning will re-arrange and re-orient the athletic fields and tennis courts into a more efficient use. The proposed structural changes will be to improve the site runoff drainage by raising the site grade on the east side of the site next to St James Street by 2 to 4 feet, and slightly lowering the grade along Douglas Street by 1 to 1.5 feet. The desired final slope across the site will be about 2 percent.

The proposed layout of the new fields and courts is shown on Figure 3. Final grades are not shown on this plan. The tennis courts will be moved from the southern end of the site to the northern end, just south of the existing pool. The pool will remain as is, however a small wading pool will be added to the east side between St. James street and the existing pool.

The majority of the work will involve reconstruction and re-grading of the athletic fields. The typical turf section will consist of 6-inches of topsoil, 6-inches of drainage sand, and a series of new underdrains. The underdrain spacing has not been selected at this time, however they are expected to be 2 to 4 feet below the final grade.

#### 2.0 HISTORICAL SITE USE AND SUBSURFACE CONDITIONS

#### Historical Site Use:

As part of our investigation we obtained topographic plans from the late 1800s, and 1950s, as well as aerial photographs taken in 1953 and 1964. Based on this historical data and additional information from an investigation by Sebago Techniques related to the West Elementary School, and information summarized by the Parks and Recreation Department in their Project Scope dated August 11, 2000, the site history is summarized as follows:

- 1. The earliest data available indicates that in 1876 the site contained no buildings and a 1882 map shows the Smith and Brown farm occupied the site. Topographic contours of the site were obtained from the City of Portland survey archives for conditions in the late 1890s. Comparing these contours with the existing contours shows an apparent low swale running from Douglas Street in a southeasterly direction toward what is now the I-295 off ramp for Congress Street Westbound. The center of the swale appears to be in the approximate location of the two sewer lines running across the site. The plan also shows that the ground surface on the eastern and northern portions of the site was higher than the present elevation by 12 to 14 feet.
- 2. In the early 1900s (1909 to 1914), the site was occupied by the SB Densmore and Melvin Hamblet brick manufacturers. Based on anecdotal information, we understand that the brick company excavated the site clay and used it to manufacture bricks. Specific details as to the extent of the excavation made by the brick company are not available. It is evident that the brick company excavated soils to at least the current grade. Evidence from the aerial photographs (as discussed in Item 5 below) indicates that the excavation extended below the existing grades
- 3. The site was used as a municipal landfill from the 1920s through the 1940s. There was no information available as to the nature of the waste disposed at the site except that noted in a Sebago

James Street. Borings where ash was encountered are noted or Figure 2 along with the depth below ground surface to the top of ash. We tested six of the ash samples for total lead concentrations with the following results:

Sample Number	Total Lead Concentration (mg/kg)
B13, S2	373
B7, S7	79
B1, S2	544
B22, S2	1910
B12, S2	1600
B2, S2	227

The total lead analyses were conducted by Maine Environmental Laboratory and are included in Appendix A. The results are indicated on Figure 2 along with the depth of the sample. As shown on the figure, the results show a substantial variation in the total lead concentration.

<u>Subsurface Conditions in Existing Tennis Court Area</u>: Two borings were drilled within the footprint of the existing tennis courts, B-19 and B-20. These borings encountered approximately 2.5 inches of asphalt pavement underlain by 0.7 to 0.9 feet of brown silty sand fill (base soils). At boring B20, a 0.2 foot thick layer of black ash fill was encountered. Beneath the base fill and ash, a gray silty clay fill was encountered to depths of about 5-feet. The clay was medium stiff based on N-values ranging from 13 to 22 blows per foot. At approximately 5-feet, the borings encountered a gray and brown silty sand with clay layers and trace silt and fine gravel. This zone appeared to be native soils. These native soils were loose to medium dense based on N-values ranging from 4 to 20 blows per foot. Groundwater was encountered at about 4.0 to 5.0 feet bgs.

<u>Subsurface Conditions in Proposed Tennis Court Area Adjacent to Pool</u>: Borings B-6 and B-8 were drilled within the general area of the proposed tennis court, south of the existing pool. The borings encountered approximately 0.5 to 0.6 inches of topsoil. Boring B-6 encountered 1.5 feet of stiff silty clay fill overlying 3-feet of clean sand fill, and 1.3 feet of brown silty sand, that appeared to be native soil. An auger refusal was encountered at 8.9 feet bgs. Boring B-8 encountered 3.5 feet of stiff silty clay fill, changing to a gray soft silty clay at about 5-feet. This gray clay extended to about 8 to 10 feet, where it transitioned to a gray fine silty sand with increasing density. An auger refusal was encountered at 13.4 feet in Boring B-8. Groundwater was encountered at about 6.0 to 8.0 feet bgs at this location.

<u>Subsurface Conditions in the Vicinity of the Proposed Wading Pool</u>: Borings B-7 was drilled in the vicinity of the pool, and encountered 0.5 feet of topsoil, 1.5 feet of fine to coarse silty sand, overlying 2.0 feet of loose gray sandy fill soil (native), with a substantial ash content, 4-feet of soft silty clay soil with numerous sand layers grading to a gray silty gravelly sand at 9.5 feet bgs. Refusal was encountered at 11.5 feet bgs. The groundwater was encountered at 5.0 feet bgs.

