BERN
STEIN
SHUR

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Rachael M Becker McEntee
207-228-7269 direct
rmcentee@bernsteinshur.com

Via electronic mail only

July 30, 2020

Mark C. Draper, Chair
Board of Environmental Protection
c/o Ruth Ann Burke
17 State House Station
Augusta, ME 04333-0017
Ruth.a.burke@maine.gov

Re: Fallbrook Commons #L-11219-TE-H-N, Appeals by Ian Houseal and Michael Denbow
Response of Appellee Fallbrook Commons Regarding Supplemental Evidence

Dear Chair Draper:

I am writing on behalf of Fallbrook Commons Development, LLC ("Fallbrook") in response to Michael Denbow's request to admit supplemental evidence in his appeal of the Department of Environmental Protection's (the "Department") approval of Fallbrook's Natural Resources Protection Act ("NRPA") permit in order #L-11219-TE-H-N. We respectfully request that the Board deny Mr. Denbow's request because he has failed to meet the applicable standards governing the admission of supplemental evidence set forth in Chapter 2, Section 24(D)(2) of the Department's Rules. Should the Board grant Mr. Denbow's request, Fallbrook respectfully requests that the Board admit the supplemental evidence included herein to rebut Mr. Denbow's allegations regarding the project's stormwater and sanitary sewer systems.

I. Standards for Admission of Supplemental Evidence on Appeal

Chapter 2, Section 24(D)(2) of the Department's Rules governs the Board's admission of supplemental evidence on appeal and provides:

> The Board may allow the record to be supplemented on appeal when it finds the evidence offered is relevant and material and that:
>
> > (a) the person seeking to supplement the record has shown due diligence in bringing the evidence to the attention of the Department at the earliest possible time; or

> (b) the evidence is newly discovered and could not, by the exercise of reasonable diligence have been discovered in time to be presented earlier in the licensing process.

II. Mr. Denbow's Requests:

Mr. Denbow requests that the Board admit the following supplemental evidence on appeal:

1. The Maine Endangered and Threatened Species Listing Handbook dated January 22, 2009 from the Maine Department of Inland Fisheries and Wildlife ("MIF&W"), and

2. Information regarding the project's sanitary sewer and stormwater design.

III. Mr. Denbow's Request Fails to Meet the Applicable Standards for Admission:

The Board should deny Mr. Denbow's request outright because: (A) the evidence is not relevant or material to the Department's approval of Fallbrook's NRPA application; and (B) to the extent Mr. Denbow sees them as relevant or material, he nonetheless failed to submit the evidence at the earliest possible time, he failed to exercise due diligence, and the evidence is not newly discovered.

A. The Offered Evidence Is Not Relevant or Material to the Department's Issuance of the NRPA Permit

Supplemental evidence must be relevant or material. *See* Ch. 2, § 24(D)(2) ("The Board may allow the record to be supplemented on appeal when it finds that the evidence offered is *relevant and material* . . . . (emphasis added)). The evidence Mr. Denbow seeks to admit fails this threshold test. The MIF&W Handbook (the "Handbook") and the allegations regarding the sanitary sewer and stormwater systems are irrelevant to Mr. Denbow's appeal regarding the Department's issuance of Fallbrook's NRPA permit. These proposed pieces of evidence could not have influenced the Department's decision because they are unrelated to the NRPA standards that the Department must consider when determining whether or not to issue a permit.

1. The Maine Endangered and Threatened Species Listing Handbook

In his appeal, Mr. Denbow alleges that Fallbrook provided the Handbook to the Portland Planning Board and to the Department. This is factually incorrect. Fallbrook did not provide the Handbook to either entity. Nonetheless, the Handbook is completely irrelevant to the applications Fallbrook submitted to these entities. The Handbook is a policy document published by MIF&W over eleven years ago that outlines policies and procedures for Maine agencies to use when recommending species to the Legislature for inclusion on Maine's Endangered and Threatened Species List. It is not an official listing of endangered or threatened species and it does not provide information specific to the processing of this specific or any other NRPA application. As a policy document

with no relation to NRPA requirements either generally or as they specifically relate to the Fallbrook application, the Handbook is not relevant or material to the appeal and should not be admitted as supplemental evidence.

2. The Alleged Stormwater and Sanitary Sewer Evidence

In his appeal, Mr. Denbow alleges facts related to the design of Fallbrook's stormwater and sewer systems. In his view, these systems will endanger the water quality of the surrounding wetlands and streams. When acting on a NRPA application, the Department must determine that the activity requiring a permit will not violate any state water quality laws.[1] The "activity" for the purposes of NRPA is the construction, fill or dredging taking place in or adjacent to certain wetlands, not the ongoing operation of certain parts of the project.[2] The evidence provided by Mr. Denbow relates to the theoretical operational failure of Fallbrook's stormwater and sewer systems *after* construction. The Maine Stormwater Law and SLODA,[3] and not NRPA, regulate the design and operation of these systems. Evidence of these systems' operation post-construction has no bearing on the impact of the development's construction activities that fall within the Department's NRPA jurisdiction. As this evidence relates to standards beyond the scope of the Department's NRPA review, it is not relevant to the appeal and should not be submitted as supplemental evidence. As discussed in more detail below, Mr. Denbow's allegations are also factually incorrect.

To the extent the Board deems either the Handbook or the stormwater and sanitary sewer evidence relevant, both categories of evidence still fail to meet the remaining standards in Chapter 2, Section 24(D)(2).

B. The Offered Evidence Was Not Brought to the Attention of the Department at the Earliest Possible Time and was not Newly Discovered

Mr. Denbow timely received the required notice of Fallbrook's NRPA application on February 8, 2020, via certified mail. This notice – which complied with all statutory requirements – contained information on the application and had instructions for how to submit comments to the Department. It also clearly informed Mr. Denbow where the application was available for review and the appropriate process for requesting a public hearing.[4]

Despite this notice and opportunity to submit comments, Mr. Denbow's appeal indicates that he did not submit comments to the Department either via the mechanism described in the notice or in

[1] *See* 38 M.R.S.A. § 480-D(5).
[2] *See* 38 M.R.S.A. § 480-C(2).
[3] Fallbrook submitted an application pursuant to SLODA and the Maine Stormwater Law to the City of Portland, which has delegated authority to review that application pursuant to 38 M.R.S.A. § 489-A.
[4] Fallbrook also held a public community meeting on February 18, 2020, attended by Mr. Denbow to discuss the separate Site Location of Development Act ("SLODA") permit currently pending at the City of Portland. **Attachment 1** includes a copy of the sign-in sheet for the February 18, 2020, public meeting indicating Mr. Denbow's attendance, as well as a copy of the certified mail receipt indicating that the notice was delivered to Mr. Denbow's address. As outlined in Section IV below, Fallbrook respectfully requests that the Board admit the supplemental evidence included herein only in the event that it grants Mr. Denbow's request.

his email correspondence with the Department as described in his appeal. Neither the Handbook nor the alleged concerns of the stormwater and sewer system design are new items that did not exist and which Mr. Denbow could not discover until after the licensing process was substantially completed. Mr. Denbow could have presented this proposed evidence to the Department at any time after he received the notice with the exercise of due diligence, particularly where Mr. Denbow had also been noticed and attended a public meeting where the project's stormwater system was discussed in response to public questions. Because Mr. Denbow did not show due diligence in bringing his proposed evidence to the attention of the Department, and the evidence is not newly discovered, the Board should deny Mr. Denbow's request to admit the proposed evidence into the record.

IV. Supplemental Evidence to Refute Mr. Denbow's Proffered Evidence

Fallbrook does not believe that Mr. Denbow's proffered evidence meets the applicable standards for admission as supplemental evidence. However, should the Board determine otherwise, it is important to note that Mr. Denbow's proffered evidence regarding the stormwater and sewer systems are also factually incorrect. In the event the Board grants Mr. Denbow's request as to this evidence, Fallbrook respectfully requests the opportunity to provide the attached supplemental evidence, that rebuts Mr. Denbow's proposed evidence.

For the sake of clarity, Fallbrook seeks to offer this evidence specifically to counter Mr. Denbow's allegations in the event the Board grants his request to submit supplemental evidence regarding the stormwater and sewer system. Should the Board reject Mr. Denbow's request, Fallbrook will withdraw its submittal of rebuttal supplemental evidence. This supplemental evidence was not included in Fallbrook's NRPA application. Fallbrook was not required to submit this evidence because it was not responsive to any issue raised by the Department as part of its review of Fallbrook's NRPA application.

Fallbrook submits this supplemental evidence specifically to refute Mr. Denbow's allegation that the failure of the proposed pumping station or sanitary sewer, or flooding of the property will result in water quality impacts to an urban impaired stream and the adjacent wetlands. This allegation represents a misunderstanding of both the design of the project's sanitary sewer system and the underlying site characteristics.

Although the Department's published and publicly available watershed maps show the project site as part of the urban impaired Fall Brook watershed, these maps do not account for the City of Portland's 2010 reconstruction of its separated storm sewer drainage system in the public streets in the vicinity of the site including Ray Street, Florida Avenue and Maine Avenue. Prior to 2010 the site's stormwater runoff was collected in a combined sewer draining toward Fall Brook. After the City separated the combined sewer in 2010, this storm sewer drainage system now collects the stormwater runoff from approximately 7.4 acres (approximately 89%) of the project site, including the tributary area on the Ray Street side of the property referenced in the appeal, from the Fall Brook watershed and directs runoff from this area through a separate storm drain system into the Presumpscot River watershed. The project's proposed drainage design directs runoff from the

site's proposed impervious areas including the building rooftop, parking areas, fire lane, and maintenance areas as well as its developed courtyards, into stormwater treatment facilities in the Presumpscot River watershed. The project's storm sewer system, therefore, does not discharge into wetlands within an urban impaired stream watershed as alleged by Mr. Denbow. In support of this description, Fallbrook has included plans provided by the City of Portland documenting the constructed storm drains as **Attachment 2** and a watershed map from the City's 2013 LOMR application to FEMA documenting the revised Fall Brook watershed boundary in the vicinity of the project site as **Attachment 3**.[5]

Finally, the proposed sanitary sewer design meets the standards of both the Department and the City of Portland. The private sanitary sewer pump station will have a force main from the pump station that runs about 475 feet and discharges to an existing on-site gravity sewer service line. This existing gravity sewer service line connects to the public sewer system in Ray Street where it is conveyed to Portland's Wastewater Treatment Plant via the City's sanitary sewer system. The sewer pump station, therefore, is within the Presumpscot River watershed, not within the Fall Brook watershed.

The pump station, in accordance with accepted engineering practices for facilities of this kind, has two pumps that are each capable of conveying the full design flow from the building, providing redundant capacity. The pump station will be connected to the site's emergency generator allowing operation in the event of a power failure. It is also equipped with alarm systems in the event of pump failure or high levels in the wet well. In the event of simultaneous failure of both pumps, the wet well provides approximately 2,400 gallons of capacity before any overland discharge could occur. The pump station is in the maintenance area of the site where it is fully accessible. Temporary emergency pumps can be installed to maintain discharge to the gravity sewer if necessary. In the event of a catastrophic and simultaneous failure of all of these measures as envisioned by Mr. Denbow, overland discharge, if it occurred, would drain to the northeast into the Presumpscot River watershed, not the Fall Brook watershed.

For the reasons above, Fallbrook asks that the Board deny Mr. Denbow's request to submit supplemental evidence. In the alternative, Fallbrook requests that the Board accept the evidence provided herein as a rebuttal to Mr. Denbow's allegations regarding the stormwater and sanitary sewer design of the project.

[5] Attachment 2 and Attachment 3 are plans provided by the City of Portland on unrelated projects; annotations in red on Page 8 of Attachment 2 and Page 2 of Attachment 3 were added by Fallbrook to indicate the location of the project.

Thank you for your time and consideration. Please do not hesitate to contact me if you have any questions.

Sincerely,

Rachael M Becker McEntee

cc: Service List

NEIGHBORHOOD MEETING SIGN-IN

18347

Proposed FALLBROOK COMMONS LICENSED NURSING CARE FACILITY
Ray Street, Portland

Date/Time of Meeting: February 18, 2020 at 6 P.M.

Location: Fallbrook Woods, 60 Merrymeeting Drive
Portland Maine 04103

Members of the Public in Attendance

	Printed Name	E-mail	Address
1.	Mike & Deb Dearborn	mdearborn@maine.rr.com	69 Florida Ave Portland ME
2.	Gene & Ellen Rowe		295 Ray St. Portland, ME.
3.	Elizabeth Huntley	ehuntley@maine.rr.com	31 Nevada Ave.
4.	George St. Clair	georges36@myfairpoint.net	36 Nevada Ave. Portland
5.	Lee Whitney	leeannin maine@gmail.com	1 Merrymeeting Dr. Portland
6.	George Barber	gabarber@yahoo	19 " " "
7.	Carol Doughty	Cndoughty@yahoo.com	54 Florida Ave
8.	Ben Doughty	bdoughty@cozyharbor.com	54 Florida Ave
9.	Donna Tozzle		8 Merrymeeting Drive - Portland, ME
10.	Mónica Garcia	Monygarcia2@yahoo.com	80 Florida Avenue
11.	Ann Acheson	finkoya@yahoo.com	2 Merrymeeting Dr. Portland
12.	PAUL & KIM COURNOYER	SETSAIL34@GMAIL.COM	24 MERRYMEETING DR PORTLAND
13.	Darrin Ramsdell	dramsdell@gmail.com	12 Penn Ave Portland
14.	David Dumont	ddumont11@hotmail.com	2 Merrymeeting DR. Portland
15.	Karen Woodberry	kwood07@hotmail.com	459 Allen Ave #26
16.	Ellen Anastos	ELLEN.ANASTOS@NEMOVES.COM	" " " #25 Portland 04103
17.	Elizabeth Stanton	foodloverrd@gmail.com	16 Merrymeeting Dr Portland 04103
18.	Joy Gallant	gallant-joy@yahoo.com	62 Florida Ave Portland ME 04103.

	Printed Name	E-Mail	Address
19.	JAMES SULLIVAN		83 Florida Ave Portland
20.	John Scholz	Johnms@gwi.net	334 Ray St Portland
21.	Beth Webster	Mom2kid@aol.com	47 Florida Ave Portland
22.	Susan Hawes		50 Florida Ave Portland
23.	Hilary Shorey	hilary.carr09@gmail.com	96 Florida Ave Portland
24.	Kimberly Sinclair	KSinC@maine.edu	333 Ray Street Portland
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Applicant and Consultant Team in Attendance:	
1. William Conway	wconway@sebagotechnics.com
2. Dan Danvers	ddanvers@sebagotechnics.com
3. Aaron Hunter	ahunter@sebagotechnics.com
4. Mike Pedhault	mpedhault@gawronturgeon.com - Architect
5. ~~George Barbe~~	~~gabarbe@yahoo.com~~
6. ~~LeeAnn Whitney~~	
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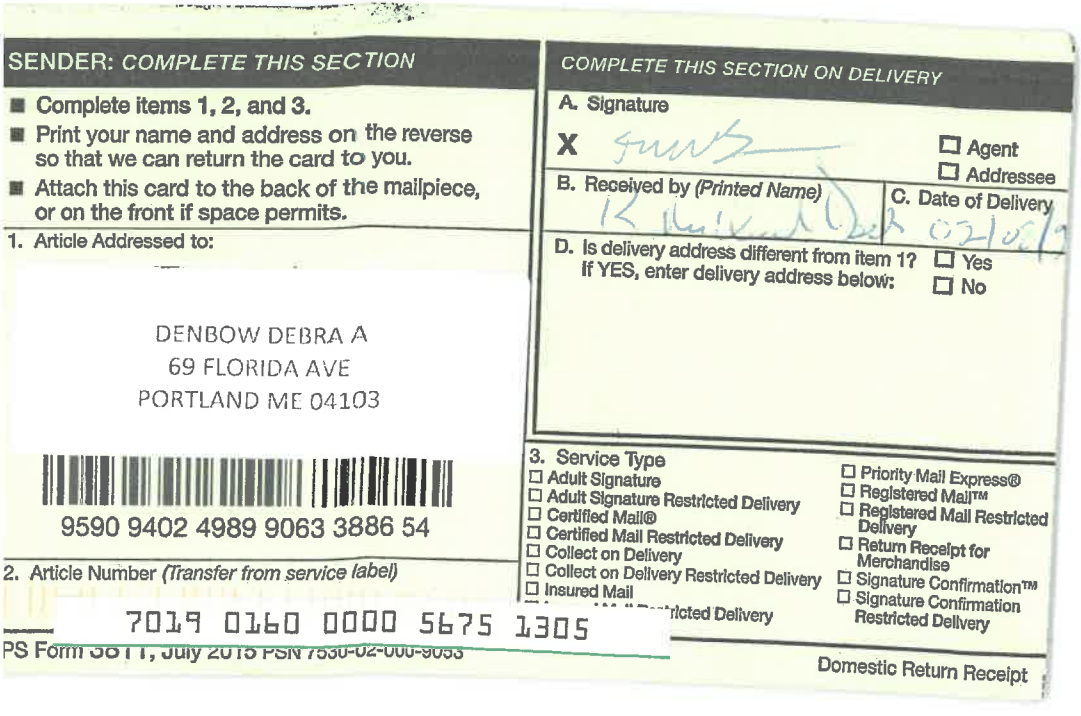


SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DENBOW DEBRA A
69 FLORIDA AVE
PORTLAND ME 04103

9590 9402 4989 9063 3886 54

2. Article Number *(Transfer from service label)*

7019 0160 0000 5675 1305

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

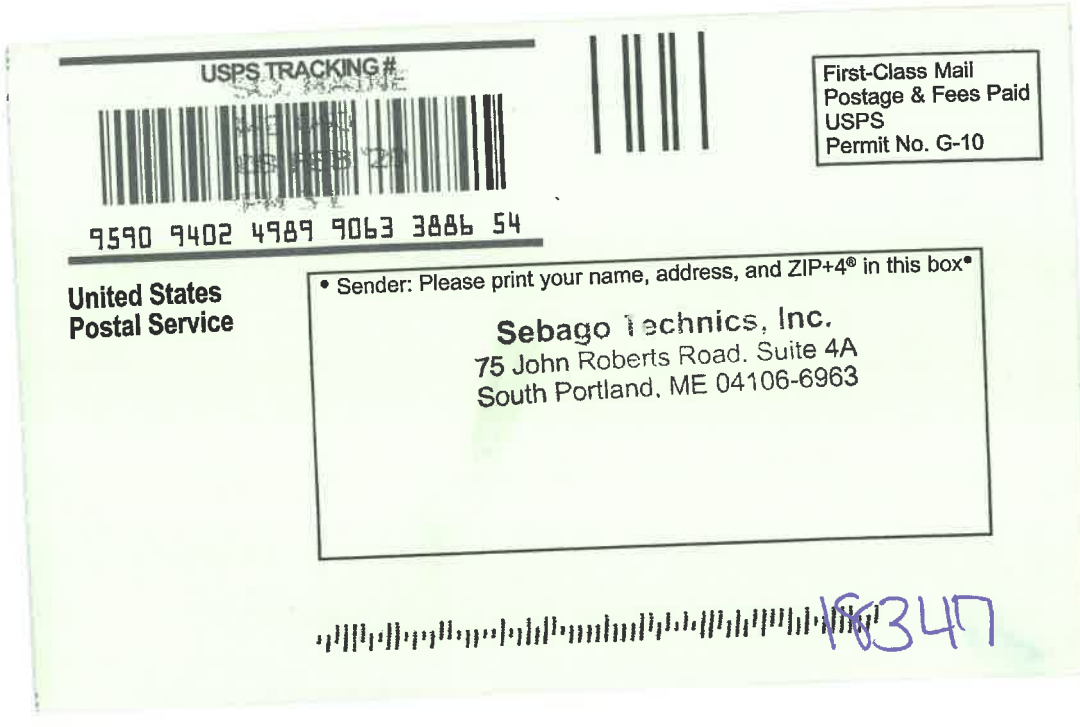
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt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First-Class Mail
Postage & Fees Paid
USPS
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United States
Postal Service
• Sender: Please print your name, address, and ZIP+4® in this box•
Sebago Technics, Inc.
75 John Roberts Road. Suite 4A
South Portland, ME 04106-6963
16347

CITY OF PORTLAND
PUBLIC SERVICES DEPARTMENT

CONTRACT DRAWINGS

RAY STREET SEWER SEPARATION PROJECT

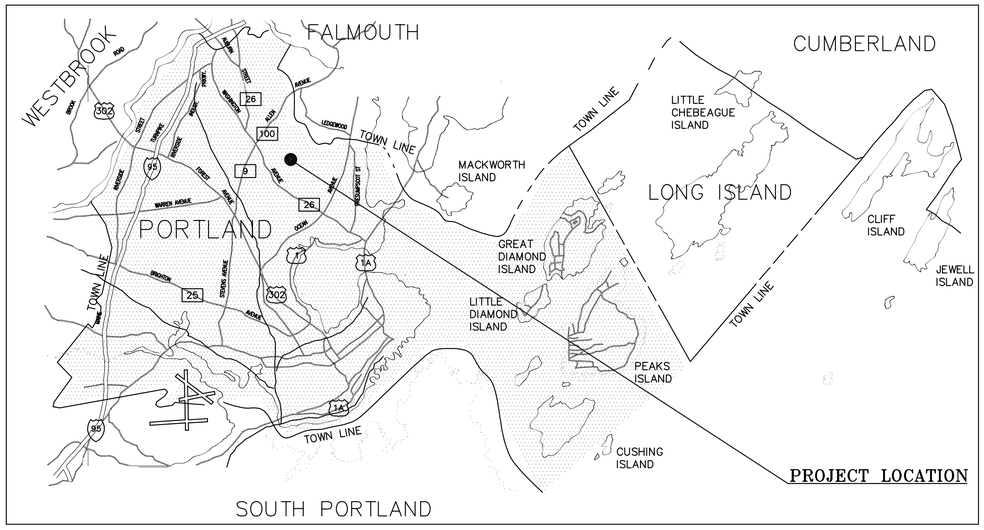
BID NUMBER: 4809

CONSTRUCTION PLANS
JANUARY 2009

YEAR APPROVED 2009

KATHERINE A. EARLEY *DATE*
CITY ENGINEER

NATHANIEL SMITH *DATE*
CITY PROJECT MANAGER



INDEX OF PLANS

STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
1/12/2009

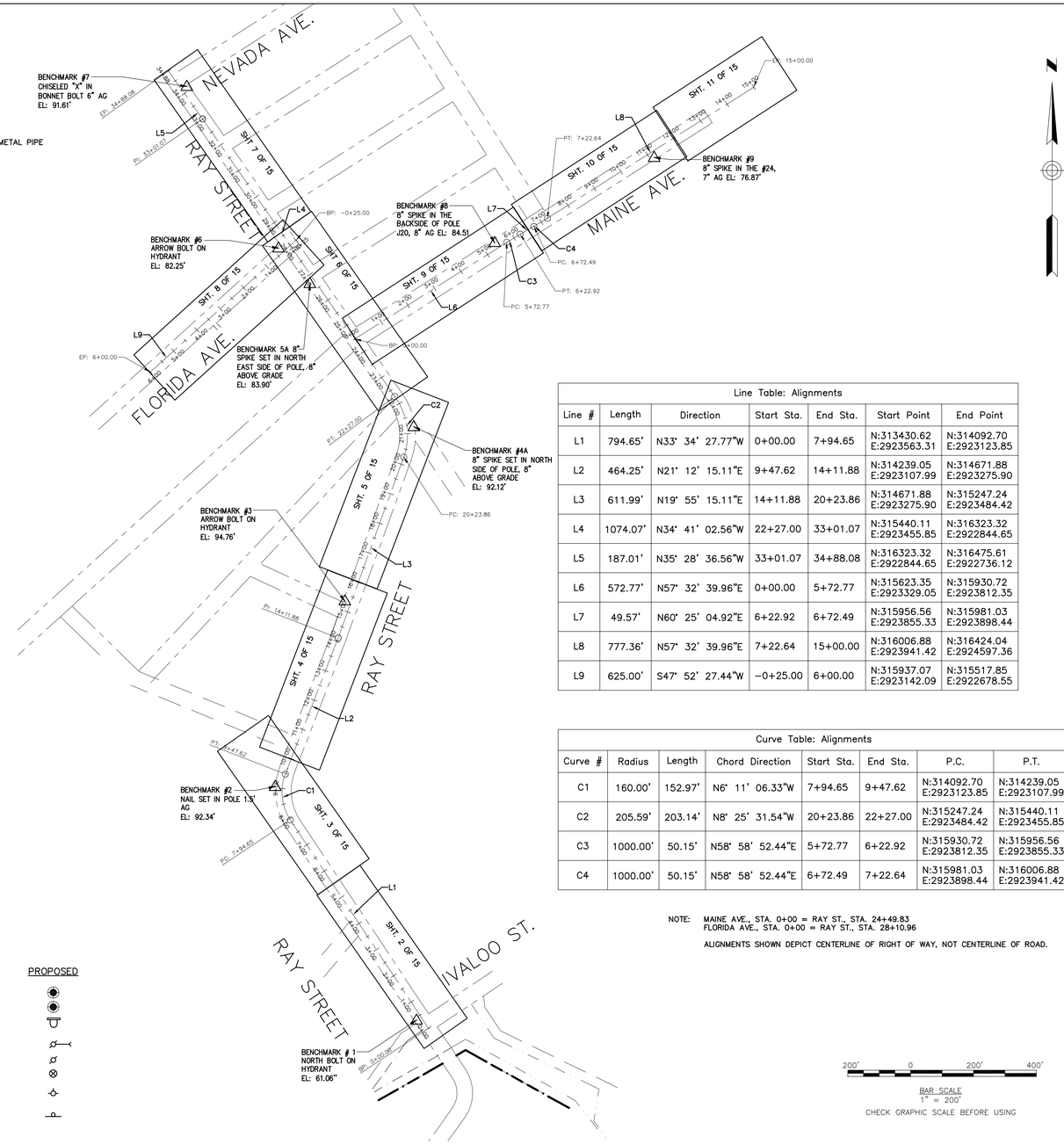
SEAL & SIGNATURE
1/12/2009

GENERAL NOTES

1. SITE AND TOPOGRAPHIC DATA PROVIDED BY SGC ENGINEERING, LLC AS A RESULT OF A FIELD SURVEY BETWEEN APRIL 23, 2006 THROUGH APRIL 18, 2007.
2. VERTICAL DATUM IS REFERENCED TO CITY DATUM WITH ONE FOOT CONTOUR INTERVALS IN THE RAY STREET/ MAINE AVE./ FLORIDA AVE. CITY DATUM IS +0.02 FT NGVD 1929. HORIZONTAL DATUM IS REFERENCED TO STATE PLANE NAD 1983 (FEET), MAINE WEST ZONE.
3. THE UTILITY LOCATIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR, CONTACT THE CITY IMMEDIATELY UPON DISCOVERING ANY CONFLICTS WITH EXISTING AND PROPOSED UTILITY LOCATIONS. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
4. CLEAN AND/OR FLUSH ALL MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
5. COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES, CITY AND DEPARTMENT. CONTACTS ARE LISTED IN SPECIFICATIONS. NOTIFY UTILITY COMPANIES WITHIN 48 HOURS OF WORK ACTIVITY ADJACENT TO THOSE UTILITIES.
6. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", TELEPHONE 888-344-7233, PRIOR TO EXCAVATION.
7. RESTORE ALL AREA DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.) UNLESS OTHERWISE NOTED ON PLANS. RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, DRIVEWAYS, AND LAWNS DAMAGED BY CONTRACTOR SHALL BE INCIDENTAL TO THE PROJECT. ALL CURB DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AND SHALL CONFORM TO CITY OF PORTLAND AND MAINE DOT SPECIFICATIONS. COST SHALL BE INCIDENTAL TO THE PROJECT.
8. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS NOT INDICATED ON THE DRAWINGS FOR REMOVAL. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE, BY A REGISTERED LAND SURVEYOR APPROVED BY THE OWNER.
9. CALCULATIONS FOR STATIONING ARE BASED ON CENTERLINE OF R.O.W. PIPE LENGTHS, PIPE SLOPE AND PIPE INVERTS ARE BASED ON CENTERLINE OF PIPE AND CENTERPOINT OF STRUCTURE.
10. EXISTING FACILITIES (I.E. TREES, POLES, LIGHT POSTS, CATCH BASINS, ETC.) SHALL BE REMOVED AND PROTECTED DURING CONSTRUCTION. OWNER RETAINS RIGHT TO KEEP ANY AND ALL REMOVED FACILITIES. CONTRACTOR TO DISPOSE OF ANY REMOVED FACILITY AT THE REQUEST OF OWNER AT CONTRACTOR'S EXPENSE.
11. ALL TREES WITHIN RIGHT OF WAY NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED DURING CONSTRUCTION.
12. ALL WORK WITHIN THE RIGHTS OF WAY OF CITY STREETS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE TRAFFIC ENGINEER AT LEAST 7 DAYS BEFORE BEGINNING CONSTRUCTION IN ANY STREET. THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE TRAFFIC ENGINEER, WHO MAY ATTACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN. WORK SHALL NOT BEGIN UNTIL THE PLAN IS APPROVED BY THE TRAFFIC ENGINEER. CITY TRAFFIC ENGINEER, JIM CARMODY, CAN BE REACHED AT 874.8894.
13. DO NOT PARK, IMPEDE ACCESS TO, OR STORE EQUIPMENT ON ADJACENT CITY OR PRIVATELY OWNED LOTS, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY CITY AND/OR LAND OWNER.
14. COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
15. RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
17. THE CONTRACTOR SHALL OBTAIN A CITY STREET OPENING PERMIT BEFORE BEGINNING CONSTRUCTION FROM DEPT. OF PUBLIC SERVICES. THE FEE FOR THIS PERMIT WILL BE WAIVED BY THE CITY. THE CONTRACTOR WILL ALSO BE REQUIRED TO HAVE A CURRENT EXCAVATOR'S LICENSE IN THE CITY. THE EXCAVATOR'S LICENSE FEE WILL NOT BE WAIVED BY THE CITY.
18. ALL WORK ASSOCIATED WITH THE PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES VI, VII, AND IX OF CHAPTER 25-STREETS, SIDEWALKS AND OTHER PUBLIC PLACES OF THE CITY OF PORTLAND CODE OF ORDINANCES.
19. ALL SEWER CONSTRUCTION IN THE PUBLIC WAY SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES II OF CHAPTER 24-SEWERS OF THE CITY OF PORTLAND CODE OF ORDINANCES.
20. THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO THE SANITARY SEWER SYSTEM, STORM SEWER SYSTEM AND ANY OTHER UTILITY INSTALLATIONS OR ALTERATIONS WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT PRIOR TO PAYMENT OF FINAL RETAINAGE.
21. PROPOSED RIM ELEVATIONS DERIVED FROM PLAN TOPOGRAPHY TO MATCH EXISTING GRADES AT PROPOSED STRUCTURE LOCATIONS. TOPOGRAPHY ON PLANS IS APPROXIMATE. CONTRACTOR SHALL ADJUST RIM GRADES TO ACTUAL FIELD GRADES, FLUSH WITH FINISH PAVEMENT.
22. UNDERDRAIN SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS, SLOPED IN ACCORDANCE WITH PROPOSED SURFACE GRADES. UNDERDRAIN SHALL CONNECT TO CATCH BASIN AT DOWN-GRADE END.
23. ALL GAS SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SERVICES AND COORDINATE WITH PROPERTY OWNERS & NORTHERN UTILITIES FOR SERVICE RELOCATIONS.
24. ALL WATER SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER SERVICES AND RELOCATE, AS REQUIRED, TO COMPLETE WORK. CONTRACTOR SHALL COORDINATE WITH CITY OF PORTLAND, PWD AND PROPERTY OWNERS IN ADVANCE OF WORK.
25. WORK IS IN CLOSE PROXIMITY TO EXISTING UTILITIES. PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION SHALL BE PERFORMED BY THE CONTRACTOR AS INCIDENTAL TO THE CONTRACT PRICE. NO SEPARATE PAVEMENT SHALL BE MADE.

ABBREVIATIONS

&	AND
A.G.	ABOVE GROUND
BIT.	BITUMINOUS
B/W	BETWEEN
CB	CATCH BASIN
CMP	CENTRAL MAINE POWER OR CORRUGATED METAL PIPE
CONC	CONCRETE
DI	DUCTILE IRON
DIA.	DIAMETER
DMH	DRAIN MANHOLE
DTL.	DETAIL
E	UNDERGROUND ELECTRICAL
EL.	ELEVATION
E.O.P.	EDGE OF PAVEMENT
EXIST.	EXISTING
FF	FINISH FLOOR
FT	FOOT/FEET
GS	GAS SERVICE
GALV	GALVANIZED
GRAN.	GRANITE
HDPE	HIGH DENSITY POLYETHYLENE
HYD	HYDRANT
INV.	INVERT
LF	LINEAR FOOT/ FEET
MAX.	MAXIMUM
MIN.	MINIMUM
MON	MONUMENT
NO.	NUMBER
NR	NO REFUSAL
N.T.S.	NOT TO SCALE
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
±	PLUS OR MINUS
PLS	PROFESSIONAL LAND SURVEYOR
PT.	POINT
PVC	POLYVINYL CHLORIDE
R.O.W.	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
REINF.	REINFORCED
REQ'D	REQUIRED
S	SLOPE
S	SEWER
SD	STORM DRAIN
SMH	SEWER MANHOLE
SCH	SCHEDULE
STA.	STATION
TYP.	TYPICAL
VER.	VERIZON/ FAIRPOINT
W	WEST
W/	WITH
WS	WATER SERVICE
WV	WATER VALVE



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L2	464.25'	N21° 12' 15.11"E	9+47.62	14+11.88	N:314239.05 E:2923107.99	N:314671.88 E:2923275.90
L3	611.99'	N19° 55' 15.11"E	14+11.88	20+23.86	N:314671.88 E:2923275.90	N:315247.24 E:2923484.42
L4	1074.07'	N34° 41' 02.56"W	22+27.00	33+01.07	N:315440.11 E:2923455.85	N:316323.32 E:2922844.65
L5	187.01'	N35° 28' 36.56"W	33+01.07	34+88.08	N:316323.32 E:2922844.65	N:316475.61 E:2922736.12
L6	572.77'	N57° 32' 39.96"E	0+00.00	5+72.77	N:315623.35 E:2923329.05	N:315930.72 E:2923812.35
L7	49.57'	N60° 25' 04.92"E	6+22.92	6+72.49	N:315956.56 E:2923855.33	N:315981.03 E:2923898.44
L8	777.36'	N57° 32' 39.96"E	7+22.64	15+00.00	N:316006.88 E:2923941.42	N:316424.04 E:2924597.36
L9	625.00'	S47° 52' 27.44"W	-0+25.00	6+00.00	N:315937.07 E:2923142.09	N:315517.85 E:2922678.55

Curve Table: Alignments							
Curve #	Radius	Length	Chord Direction	Start Sta.	End Sta.	P.C.	P.T.
C1	160.00'	152.97'	N6° 11' 06.33"W	7+94.65	9+47.62	N:314092.70 E:2923123.85	N:314239.05 E:2923107.99
C2	205.59'	203.14'	N8° 25' 31.54"W	20+23.86	22+27.00	N:315247.24 E:2923484.42	N:315440.11 E:2923455.85
C3	1000.00'	50.15'	N58° 58' 52.44"E	5+72.77	6+22.92	N:315930.72 E:2923812.35	N:315956.56 E:2923855.33
C4	1000.00'	50.15'	N58° 58' 52.44"E	6+72.49	7+22.64	N:315981.03 E:2923898.44	N:316006.88 E:2923941.42

NOTE: MAINE AVE., STA. 0+00 = RAY ST., STA. 24+49.83
FLORIDA AVE., STA. 0+00 = RAY ST., STA. 28+10.96

ALIGNMENTS SHOWN DEPICT CENTERLINE OF RIGHT OF WAY, NOT CENTERLINE OF ROAD.

200' 0 200' 400'

BAR SCALE
1" = 200'
CHECK GRAPHIC SCALE BEFORE USING

LINE TYPES

DESCRIPTION	EXISTING	DESCRIPTION	PROPOSED
CONTOUR (1' INTERVAL)	122	CONTOUR (1' INTERVAL)	122
CONTOUR (INDEX)	120	CONTOUR (INDEX)	120
SANITARY SEWER	S	SANITARY SEWER	S
STORM DRAIN	SD	STORM DRAIN	SD
UNDERDRAIN	UD	UNDERDRAIN	UD
WATER MAIN	W	WATER MAIN	W
UNDERGROUND ELECTRIC	E	UNDERGROUND ELECTRIC	E
GAS LINE	G	GAS LINE	G
OVERHEAD ELECTRIC	OE	OVERHEAD ELECTRIC	OE
PROPERTY LINE		PROPERTY LINE	
RIGHT OF WAY		RIGHT OF WAY	
EASEMENT		EASEMENT	
EDGE OF VEGETATION		EDGE OF VEGETATION	
FENCE	X X X	FENCE	X X X
CENTERLINE		CENTERLINE	
RETAINING WALL		RETAINING WALL	
STONEWALL		STONEWALL	
CURB		CURB	
EDGE OF PAVEMENT		EDGE OF PAVEMENT	
EDGE OF GRAVEL		EDGE OF GRAVEL	
GUARDRAIL		GUARDRAIL	
		EXIST. LINE TO BE DEMOLISHED	XXXXXXXXXXXXXXXXXX

SYMBOLS

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
CATCH BASIN		
UTILITY POLE W/GUY		
UTILITY POLE		
WATER GATE		
HYDRANT		
SIGN		
MAILBOX	MB	
CONIFEROUS TREE		
DECIDUOUS TREE		
IRON PIN	IPF	
MONUMENTS	MF	
BORING & NUMBER	B-X	
FULL DEPTH CONSTRUCTION		
DEMO PAVEMENT/ REPAVE		
PAVEMENT OVERLAY		
BORING/ PROBE DEPTH	P XX, NR	

NO REFUSAL
REFUSAL ELEV.

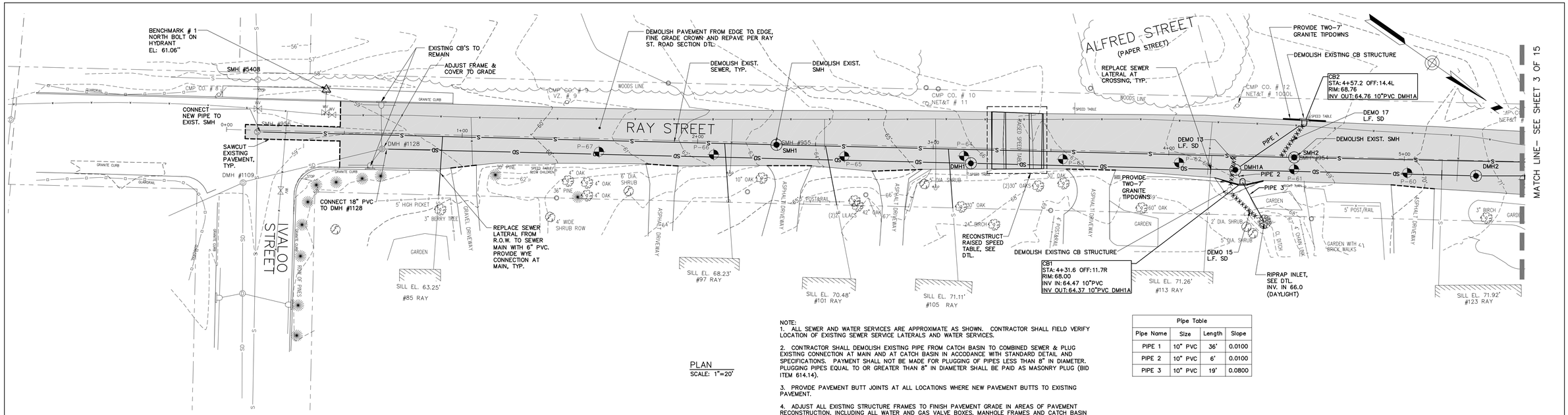
CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

OVERALL LAYOUT PLAN

STATE OF MAINE — DAVID A. SENUS 10791 — REGISTERED PROFESSIONAL ENGINEER
1/14/2009
WOODARD & CURRAN

REFERENCES:
RAYST06T
STRIP_537001.dwg

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	DAS/MAS/BSS	JAN. 12, 2009	AS NOTED	1 OF 15



PLAN
SCALE: 1"=20'

NOTE:
1. ALL SEWER AND WATER SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SEWER SERVICE LATERALS AND WATER SERVICES.

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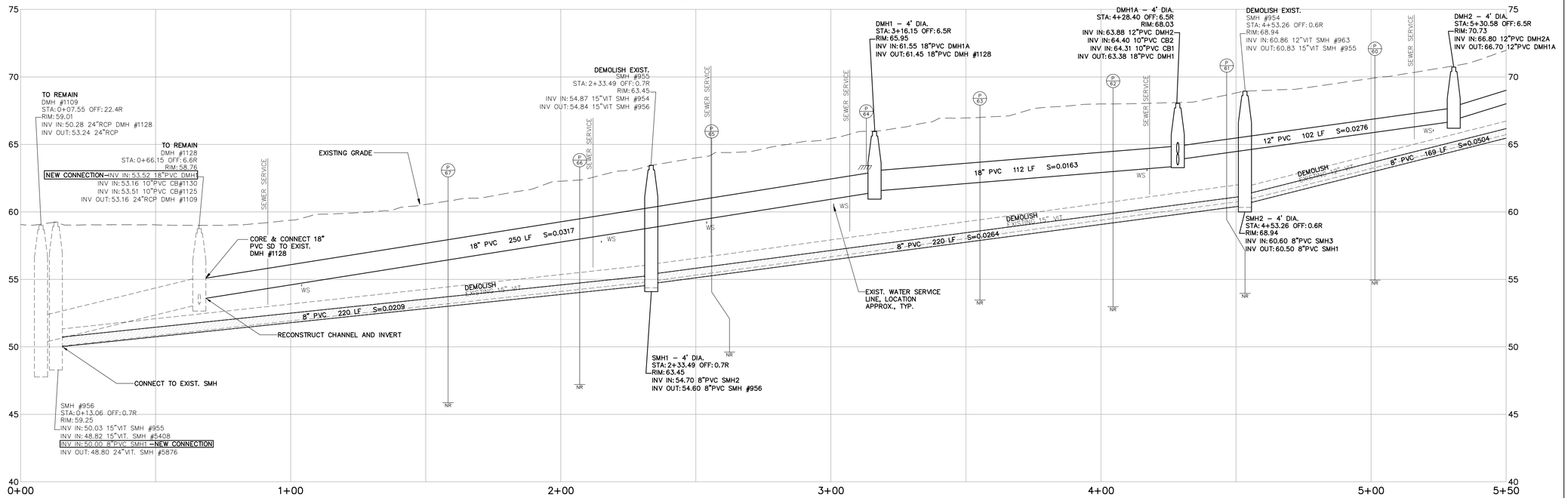
Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 1	10" PVC	36'	0.0100
PIPE 2	10" PVC	6'	0.0100
PIPE 3	10" PVC	19'	0.0800



PROFILE STA. 0+00 TO STA. 5+50

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
0+00 TO 5+50

STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
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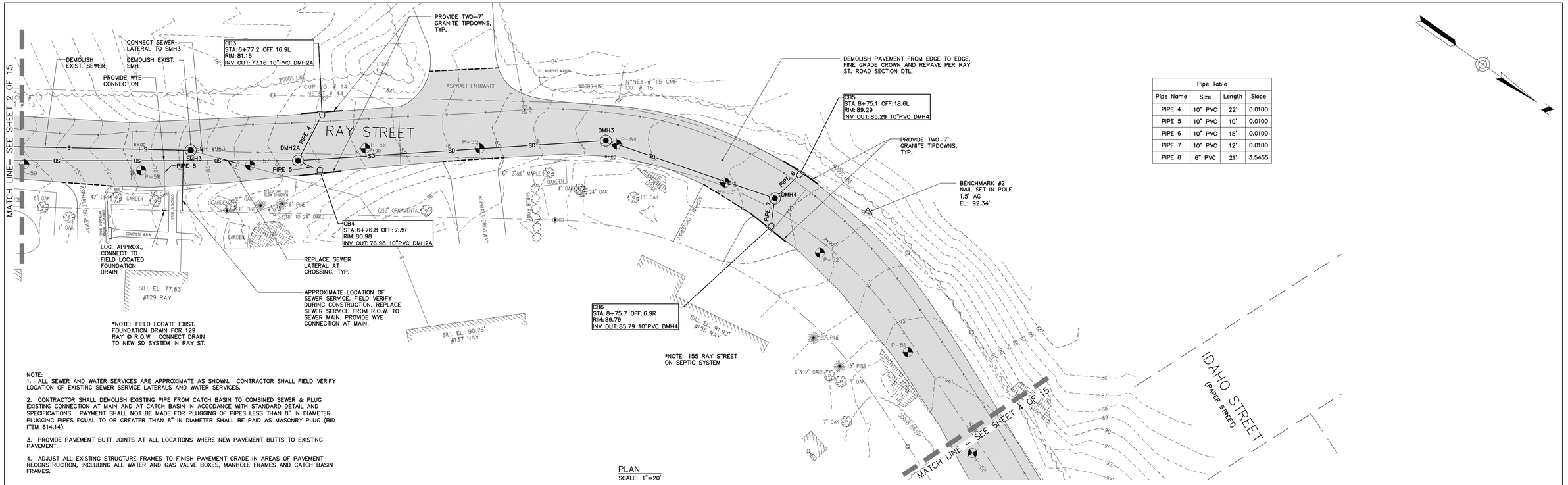
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	2 OF 15



PLAN
SCALE: 1"=20'

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 4	10" PVC	22'	0.0100
PIPE 5	10" PVC	10'	0.0100
PIPE 6	10" PVC	15'	0.0100
PIPE 7	10" PVC	12'	0.0100
PIPE 8	6" PVC	21'	3.5455

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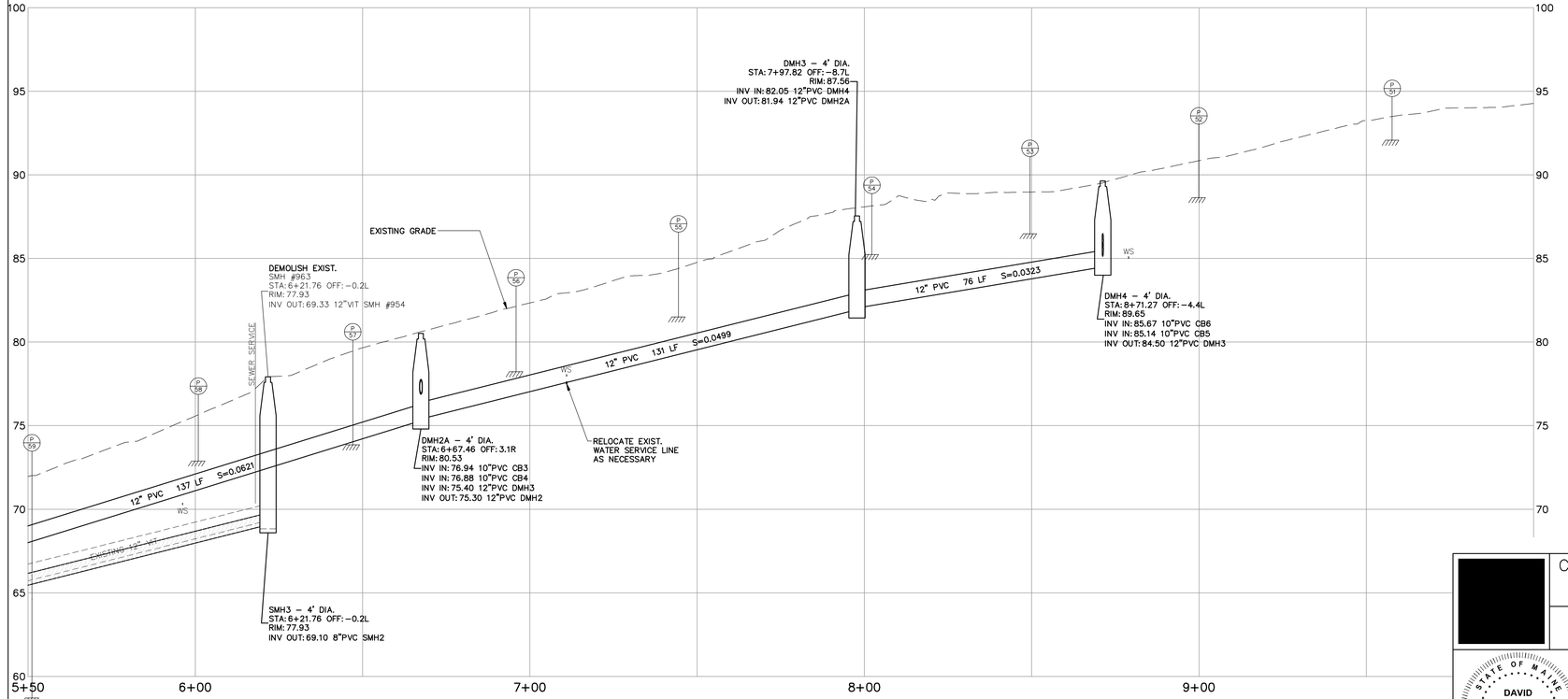

PROFILE STA. 5+50 TO STA. 10+00
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
5+50 TO 10+00

STATE OF MAINE · DAVID A. SENUS 10791 · REGISTERED PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
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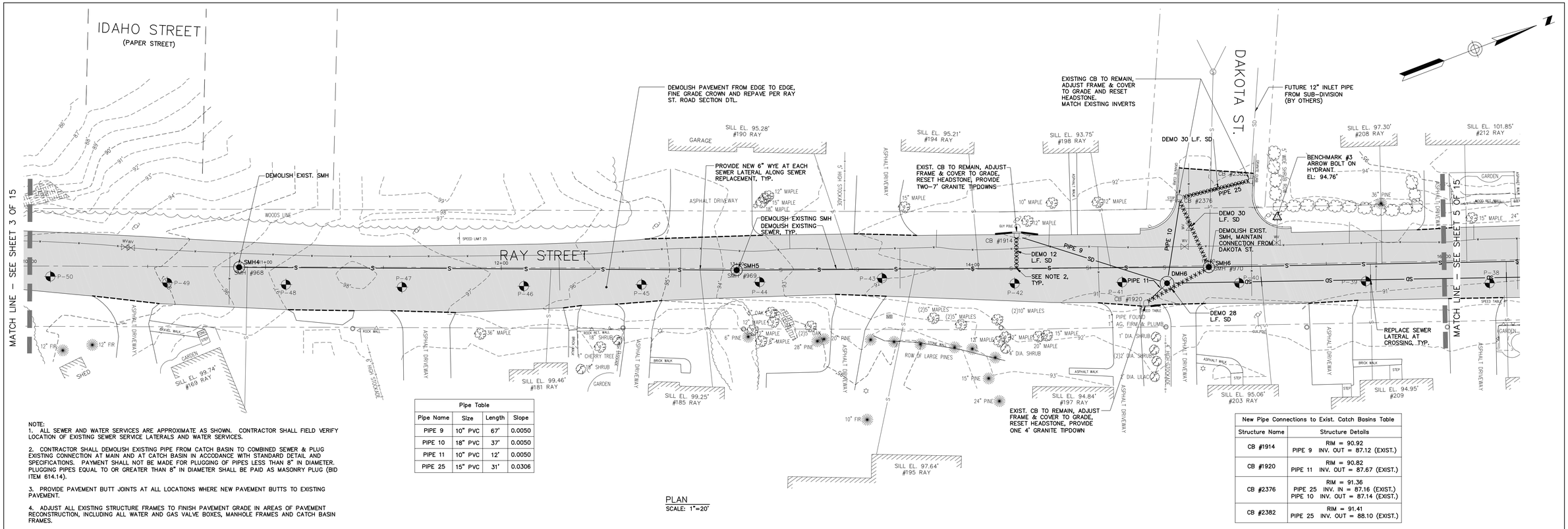
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	3 OF 15



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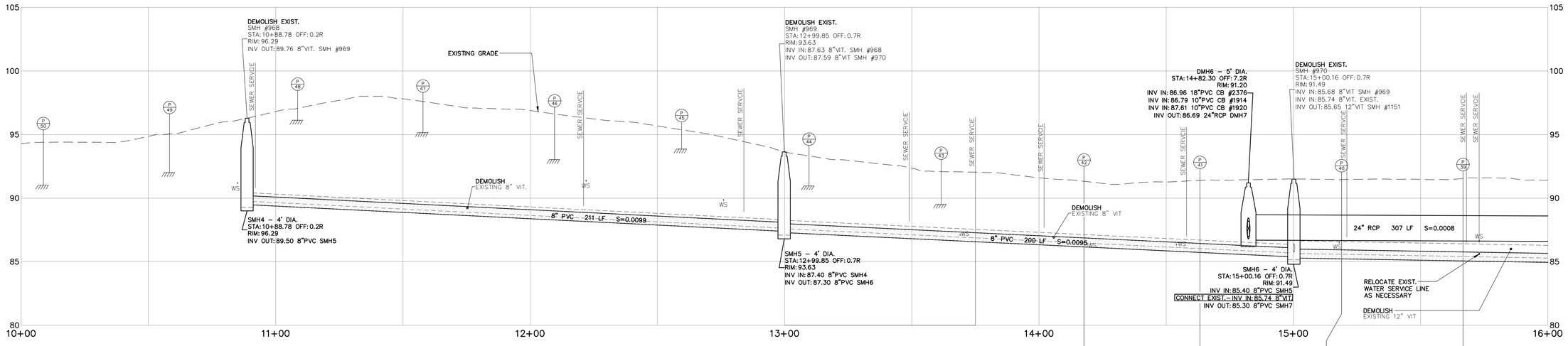
Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 9	10" PVC	67'	0.0050
PIPE 10	18" PVC	37'	0.0050
PIPE 11	10" PVC	12'	0.0050
PIPE 25	15" PVC	31'	0.0306

New Pipe Connections to Exist. Catch Basins Table	
Structure Name	Structure Details
CB #1914	RIM = 90.92 PIPE 9 INV. OUT = 87.12 (EXIST.)
CB #1920	RIM = 90.82 PIPE 11 INV. OUT = 87.67 (EXIST.)
CB #2376	RIM = 91.36 PIPE 25 INV. IN = 87.16 (EXIST.) PIPE 10 INV. OUT = 87.14 (EXIST.)
CB #2382	RIM = 91.41 PIPE 25 INV. OUT = 88.10 (EXIST.)

PLAN
SCALE: 1"=20'



PROFILE STA. 10+00 TO STA. 16+00

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
10+00 TO 16+00

STATE OF MAINE
DAVID A. SENUS
10791
PROFESSIONAL ENGINEER
REGISTERED
1/12/2009
WOODARD & CURRAN

REFERENCES:
RAYST06T
STRIP_537001.dwg

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	4 OF 15

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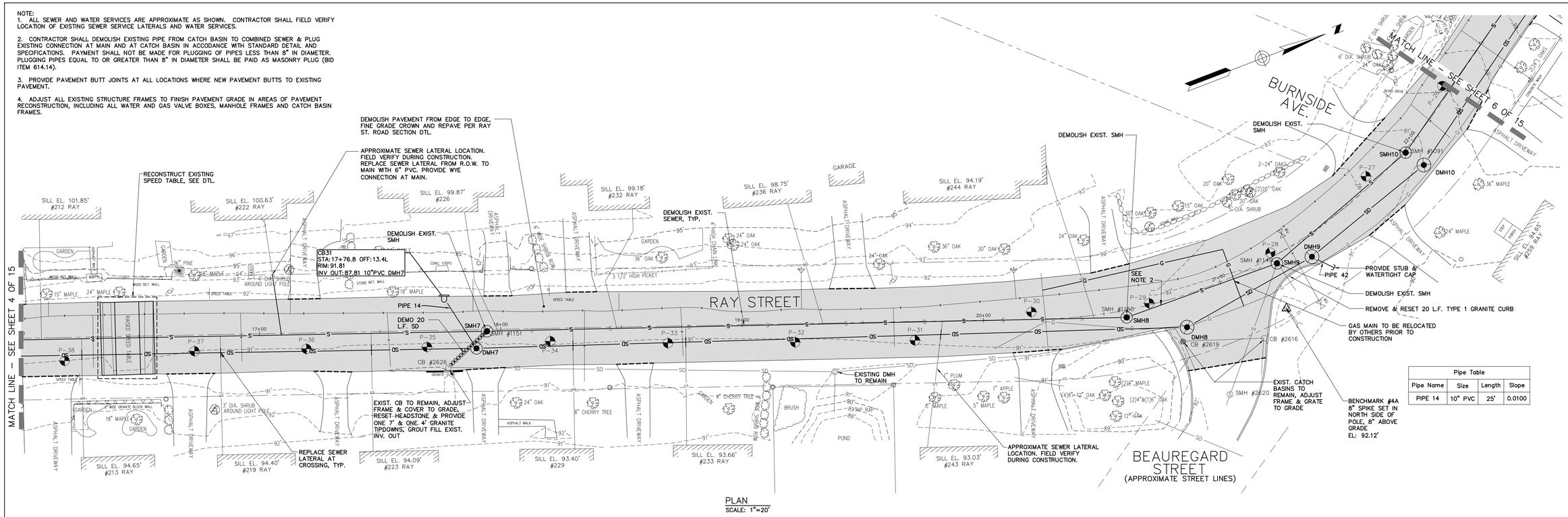
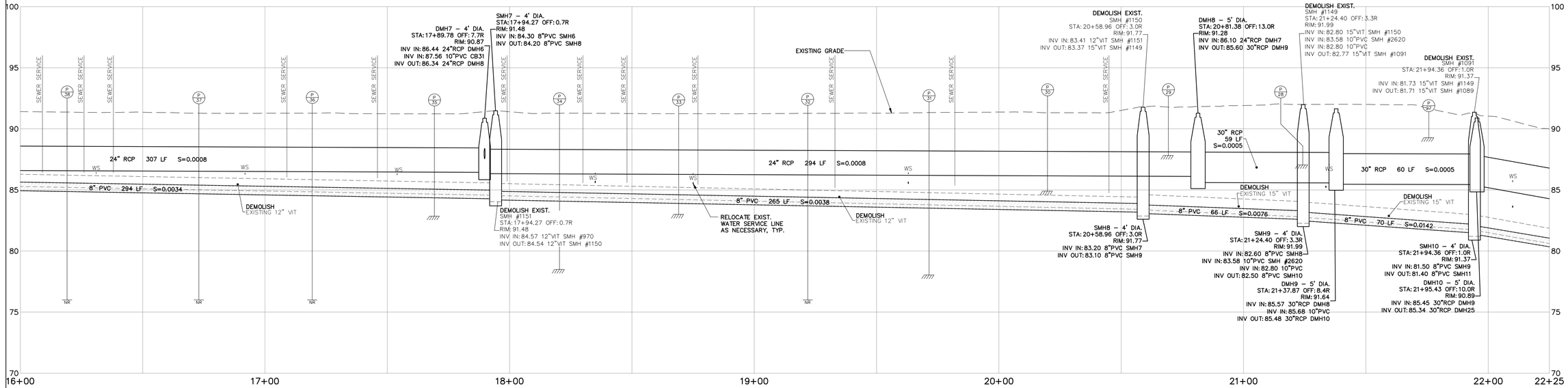


PLAN
SCALE: 1"=20'

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 14	10" PVC	25'	0.0100



PROFILE STA. 16+00 TO STA. 22+25
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

[redacted]

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
16+00 TO 22+25

STATE OF MAINE
DAVID A. SENUS
10791
PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
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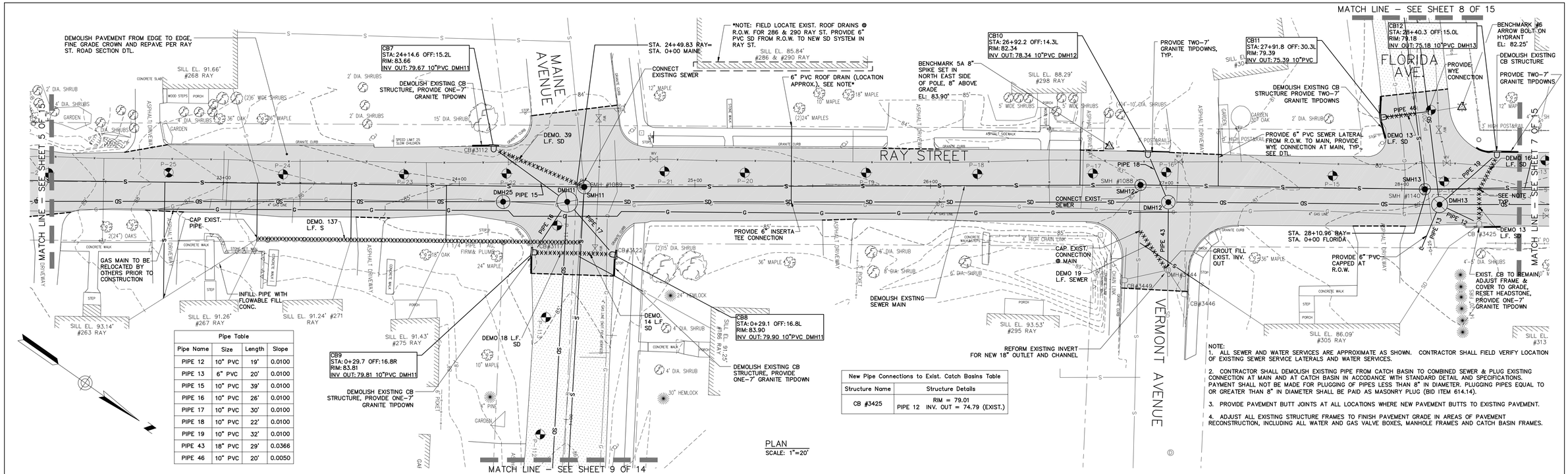
STRIP_537001.dwg

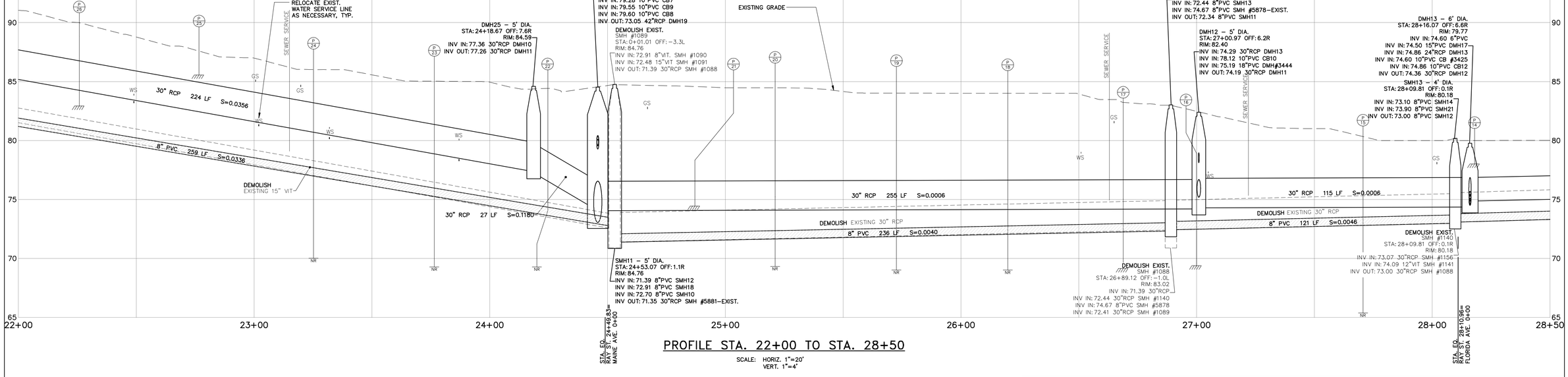
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	5 OF 15



Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 12	10" PVC	19'	0.0100
PIPE 13	6" PVC	20'	0.0100
PIPE 15	10" PVC	39'	0.0100
PIPE 16	10" PVC	26'	0.0100
PIPE 17	10" PVC	30'	0.0100
PIPE 18	10" PVC	22'	0.0100
PIPE 19	10" PVC	32'	0.0100
PIPE 43	18" PVC	29'	0.0366
PIPE 46	10" PVC	20'	0.0050

New Pipe Connections to Exist. Catch Basins Table	
Structure Name	Structure Details
CB #3425	RIM = 79.01 PIPE 12 INV. OUT = 74.79 (EXIST.)

PLAN
SCALE: 1"=20'



PROFILE STA. 22+00 TO STA. 28+50

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
22+25 TO 28+50

DAVID A. SENUS 10791 – STATE OF MAINE – REGISTERED PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
RAYST06T
STRIP_537001.dwg

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	6 OF 15

Runoff from the east "Ray Street" Side of the Fall Brooks Commons site enters the City of Portland's separated storm drain system via this ditch and inlet

Location of Fall Brook Woods and Fall Brook Commons emergency access drive and sewer service

PROVIDE RIPRAP INLET INV. ELEV. 77.19, SEE DTL.

EXIST. CB TO REMAIN, ADJUST FRAME & COVER TO GRADE, RESET HEADSTONE, PROVIDE TWO-7" GRANITE TIPDOWNS BOTH SIDES

DEMO 11 L.F. SD PIPE 31

DEMO 14 L.F. SD

PIPE 22

DEMOLISH EXISTING CB STRUCTURE

SEE NOTE 2, TYP.

PIPE 23

DEMO 14 L.F. SD

CB14
STA: 32+41.9 OFF: 15.0L
RIM: 82.55
INV OUT: 78.55 10"PVC DMH14

CB16
STA: 34+73.6 OFF: 14.2L
RIM: 97.44
INV OUT: 93.52 10"PVC DMH16

PROVIDE TWO-7" GRANITE TIPDOWNS

SAW CUT EXIST. PAVEMENT, TYP.

PIPE 26

PIPE 41

PROVIDE 10" INSERTA TEE

DEMO 14 L.F. SD

PIPE 21

PIPE 20

PIPE 24

EXIST. CATCH BASIN TO REMAIN

EXIST. CB TO REMAIN, ADJUST FRAME & COVER TO GRADE, RESET HEADSTONE, PROVIDE ONE 7" GRANITE TIPDOWN

PROVIDE APPROX. 5 L.F. 8" PVC, CONNECT TO EXIST. SEWER

DEMOLISH PAVEMENT FROM EDGE TO EDGE, FINE GRADE CROWN AND REPAVE PER RAY ST. ROAD SECTION DTL.

DEMOLISH EXISTING SEWER MAIN

DEMOLISH EXISTING CB STRUCTURE PROVIDE ONE-7" GRANITE TIPDOWN & ONE-4' SECTION GRANITE CURB

PROVIDE 6" PVC SEWER LATERAL FROM R.O.W. TO MAIN, PROVIDE WYE CONNECTION AT MAIN, TYP., SEE DTL.

REPLACE SEWER LATERAL AT CROSSING, TYP.

BENCHMARK #7
CHISELED "X" IN BONNET BOLT 6" AG EL: 91.61'

CB13
STA: 29+28.7 OFF: 30.8R
RIM: 80.17
INV OUT: 76.17 10"PVC

CB15
STA: 32+25.5 OFF: 15.4R
RIM: 82.02
INV OUT: 78.02 10"PVC DMH14

CB17
STA: 34+73.6 OFF: 13.1R
RIM: 98.33
INV OUT: 94.41 10"PVC DMH16

SEE SHEET 6 OF 15 — MATCH LINE — SEE SHEET 8 OF 15

RAY STREET

PENN AVENUE

JERSEY AVENUE

NEVADA AVENUE

SMH #1158 · SMH #1159 · SMH #1160

DMH13 · DMH14 · DMH15 · DMH16 · SMH14 · SMH15 · SMH16 · SMH17

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 20	10" PVC	24'	0.0100
PIPE 21	15" PVC	10'	0.0045
PIPE 22	15" PVC	20'	0.0052
PIPE 23	10" PVC	28'	0.0100
PIPE 24	10" PVC	12'	0.0100
PIPE 26	10" PVC	39'	0.0100
PIPE 31	12" PVC	12'	0.0546
PIPE 41	10" PVC	39'	0.0100

New Pipe/Connections to Exist. Catch Basins Table	
Structure Name	Structure Details
CB #3416	RIM = 79.98 PIPE 40 INV. IN = 75.77 (EXIST.) PIPE 21 INV. OUT = 75.70 (EXIST.)
CB #3829	RIM = 79.97 PIPE 31 INV. IN = 76.51 (EXIST.) PIPE 22 INV. OUT = 75.77 (EXIST.)

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PLAN
SCALE: 1"=20'

SMH-17 is now an existing manhole where the existing sewer serving Fall Brook Woods enters the City Sanitary Sewer System.

The proposed Fall Brook Commons service will use this existing service for its sewer discharge

Runoff from the project site enters the City's storm drain main line at DMH13

SMH14 – 4' DIA.
STA: 29+44.98 OFF: -2.9L
RIM: 80.42
EXIST.-INV IN: 74.44 8"PVC SMH #5879
INV IN: 73.97 8"PVC SMH15
INV OUT: 73.87 8"PVC SMH13

DMH13 – 4' DIA.
STA: 29+72.15 OFF: 5.7R
RIM: 80.04
-INV IN: 75.66 15"PVC CB #3829
INV IN: 75.66 15"PVC CB #3416
INV IN: 76.04 18"PVC DMH14
INV OUT: 75.54 24"RCP DMH13

DEMOLISH
SMH #1159
STA: 30+61.57 OFF: 0.2R
RIM: 81.19
INV IN: 74.70 24"VIT SMH #1160
INV OUT: 74.67 24"RCP SMH #1156

SMH15 – 4' DIA.
STA: 31+93.91 OFF: -2.6L
RIM: 82.33
INV IN: 75.57 8"PVC SMH16
INV OUT: 75.47 8"PVC SMH14

DMH14 – 4' DIA.
STA: 32+22.00 OFF: 4.2R
RIM: 82.85
INV IN: 78.30 12"PVC DMH15
INV IN: 77.90 10"PVC CB15
INV IN: 78.27 10"PVC CB14
INV OUT: 77.80 18"PVC DMH13

SMH16 – 4' DIA.
STA: 33+00.66 OFF: -2.7L
RIM: 85.04
INV IN: 77.27 8"PVC SMH17
INV OUT: 76.21 8"PVC SMH15

DMH15 – 4' DIA.
STA: 33+48.80 OFF: 3.4R
RIM: 87.82
INV IN: 83.47 12"PVC DMH16
INV OUT: 83.37 12"PVC DMH14

DMH16 – 4' DIA.
STA: 34+37.24 OFF: -0.4L
RIM: 94.46
INV IN: 93.13 10"??? CB16
INV IN: 94.03 10"??? CB17
INV OUT: 90.36 12"PVC DMH15

SMH17 – 4' DIA.
STA: 34+43.64 OFF: -13.4L
RIM: 94.30
INV OUT: 85.99 8"PVC SMH16

EXISTING GRADE

SEWER SERVICE

24" RCP 156 LF S=0.0044

DEMOLISH EXISTING 30" RCP

8" PVC 135 LF S=0.0057

18" PVC 250 LF S=0.0070

DEMOLISH EXISTING 24" RCP

8" PVC 249 LF S=0.0060

DEMOLISH EXISTING 24" VIT

8" PVC 107 LF S=0.0060

12" PVC 127 LF S=0.0400

12" PVC 89 LF S=0.0778

8" PVC 143 LF S=0.0608

DEMOLISH EXISTING 12" VIT

DEMOLISH
SMH #1156
STA: 29+44.98 OFF: 0.1R
RIM: 80.54
INV IN: 73.97 24"RCP SMH #1159
INV IN: 74.44 8"??? SMH #5879
INV OUT: 73.92 30"RCP SMH #1140

DEMOLISH
SMH #1160
STA: 33+00.83 OFF: 0.3R
RIM: 85.14
INV IN: 77.27 12"VIT SMH
INV OUT: 76.11 24"VIT SMH #1159

DEMOLISH
SMH
STA: 34+43.64 OFF: -13.4L
RIM: 94.30
INV OUT: 85.99 12"VIT SMH #1160

PROFILE STA. 28+50 TO STA. 35+00
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY STREET
PLAN AND PROFILE
28+50 TO 35+00

STATE OF MAINE · DAVID A. SENUS · 10791 · PROFESSIONAL ENGINEER · LICENSED

1/12/2009
WOODARD & CURRAN

REFERENCES:
RAYST06T
STRIP_537001.dwg

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	7 OF 15

SEE SHEET 6 OF 15

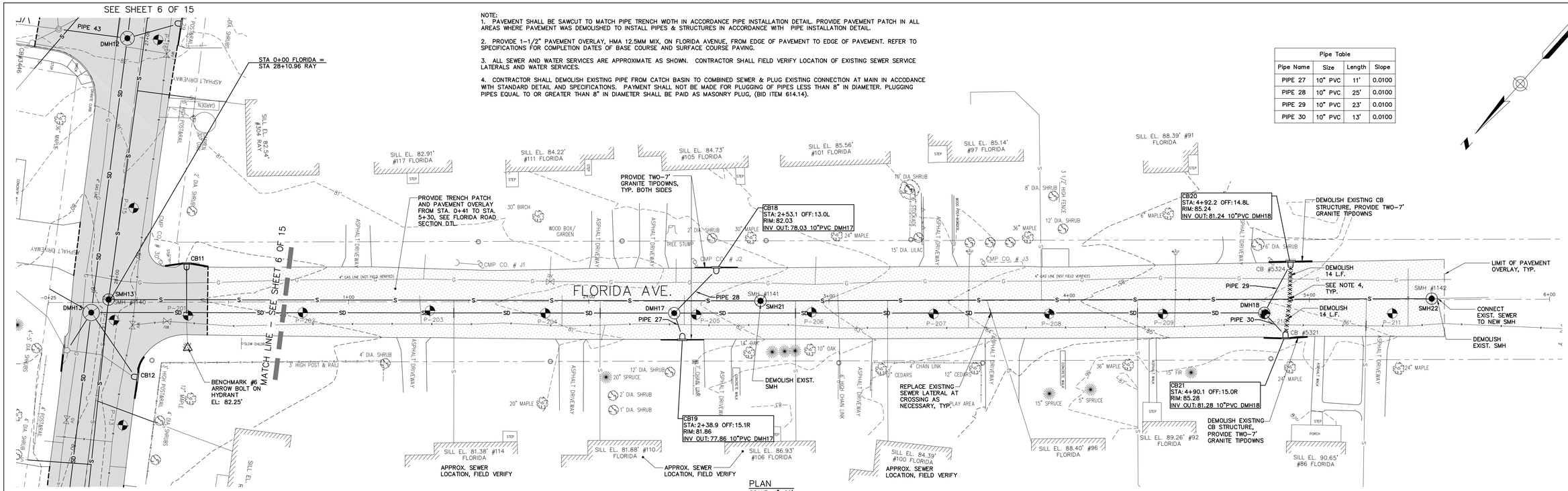
NOTE:
1. PAVEMENT SHALL BE SAWCUT TO MATCH PIPE TRENCH WIDTH IN ACCORDANCE PIPE INSTALLATION DETAIL. PROVIDE PAVEMENT PATCH IN ALL AREAS WHERE PAVEMENT WAS DEMOLISHED TO INSTALL PIPES & STRUCTURES IN ACCORDANCE WITH PIPE INSTALLATION DETAIL.

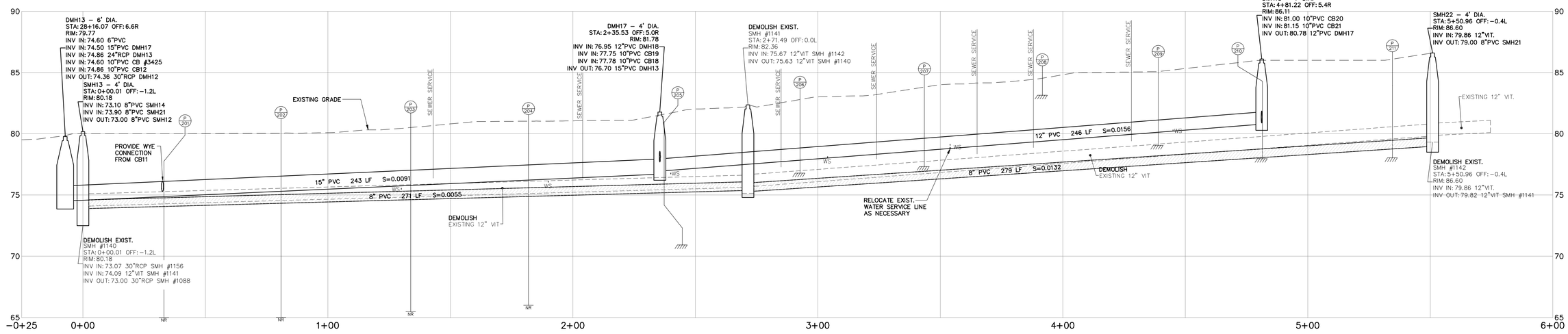
2. PROVIDE 1-1/2" PAVEMENT OVERLAY, HMA 12.5MM MIX, ON FLORIDA AVENUE, FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. REFER TO SPECIFICATIONS FOR COMPLETION DATES OF BASE COURSE AND SURFACE COURSE PAVING.

3. ALL SEWER AND WATER SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SEWER SERVICE LATERALS AND WATER SERVICES.

4. CONTRACTOR SHALL DEMOLISH EXISTING PIPE FROM CATCH BASIN TO COMBINED SEWER & PLUG EXISTING CONNECTION AT MAIN IN ACCODANCE WITH STANDARD DETAIL AND SPECIFICATIONS. PAYMENT SHALL NOT BE MADE FOR PLUGGING OF PIPES LESS THAN 8" IN DIAMETER. PLUGGING PIPES EQUAL TO OR GREATER THAN 8" IN DIAMETER SHALL BE PAID AS MASONRY PLUG, (BID ITEM 614.14).

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 27	10" PVC	11'	0.0100
PIPE 28	10" PVC	25'	0.0100
PIPE 29	10" PVC	23'	0.0100
PIPE 30	10" PVC	13'	0.0100





PROFILE STA. -0+25 TO STA. 6+00

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

FLORIDA AVENUE PLAN AND PROFILE 0+00 TO 6+00

STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
FINAL
1/12/2009
WOODARD & CURRAN

REFERENCES:
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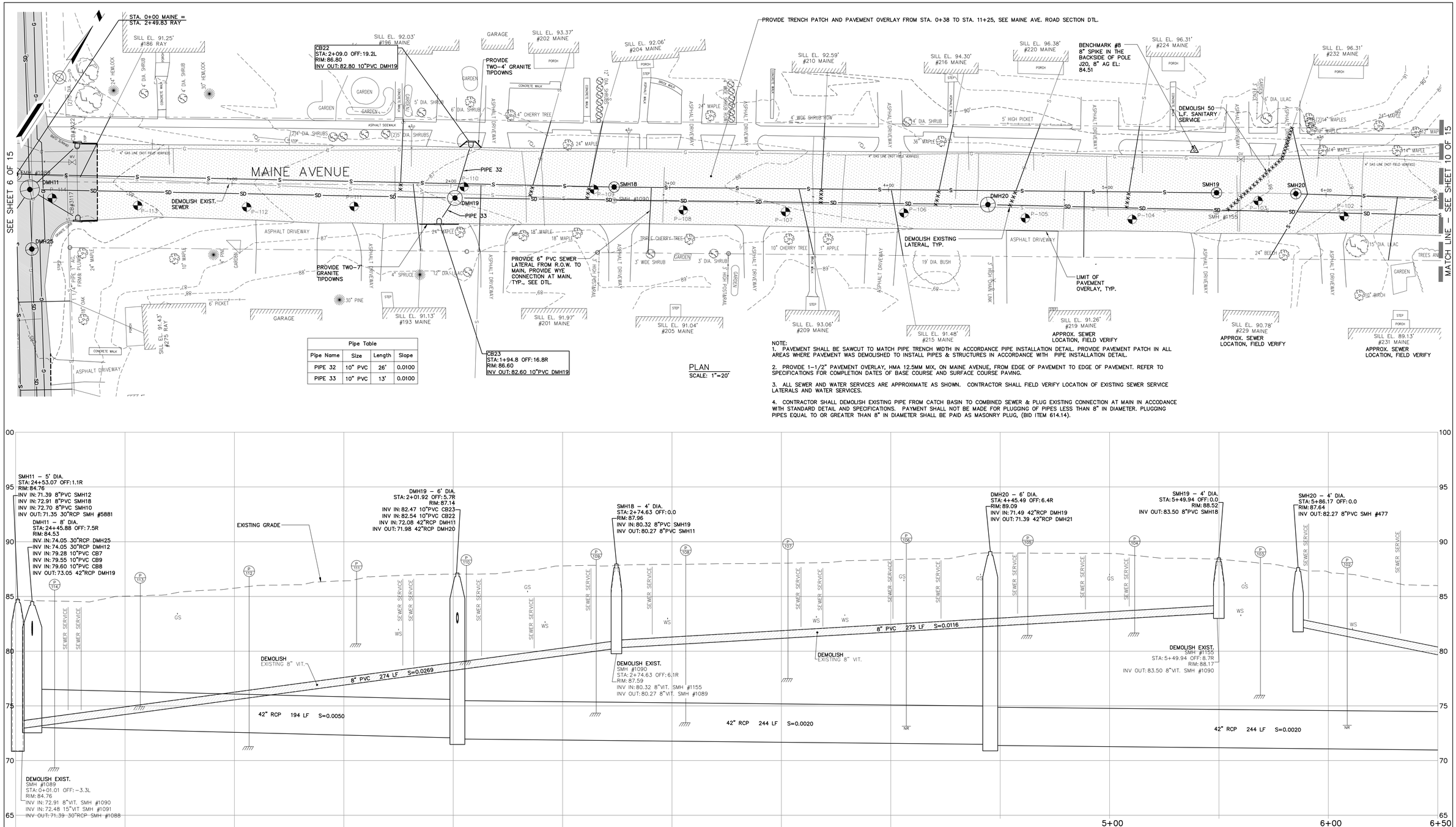

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 32	10" PVC	26'	0.0100
PIPE 33	10" PVC	13'	0.0100

PLAN
SCALE: 1"=20'

NOTE:
1. PAVEMENT SHALL BE SAWCUT TO MATCH PIPE TRENCH WIDTH IN ACCORDANCE PIPE INSTALLATION DETAIL. PROVIDE PAVEMENT PATCH IN ALL AREAS WHERE PAVEMENT WAS DEMOLISHED TO INSTALL PIPES & STRUCTURES IN ACCORDANCE WITH PIPE INSTALLATION DETAIL.

2. PROVIDE 1-1/2" PAVEMENT OVERLAY, HMA 12.5MM MIX, ON MAINE AVENUE, FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. REFER TO SPECIFICATIONS FOR COMPLETION DATES OF BASE COURSE AND SURFACE COURSE PAVING.

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STA. EQ.
RAY: STA. 24+49.83=
MAINE AVE. 0+00

PROFILE STA. 0+00 TO STA. 6+50
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

MAINE AVENUE
PLAN AND PROFILE
0+00 TO 6+50

STATE OF MAINE
DAVID A. SENUS
10791
PROFESSIONAL ENGINEER
1/12/2009
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REFERENCES:
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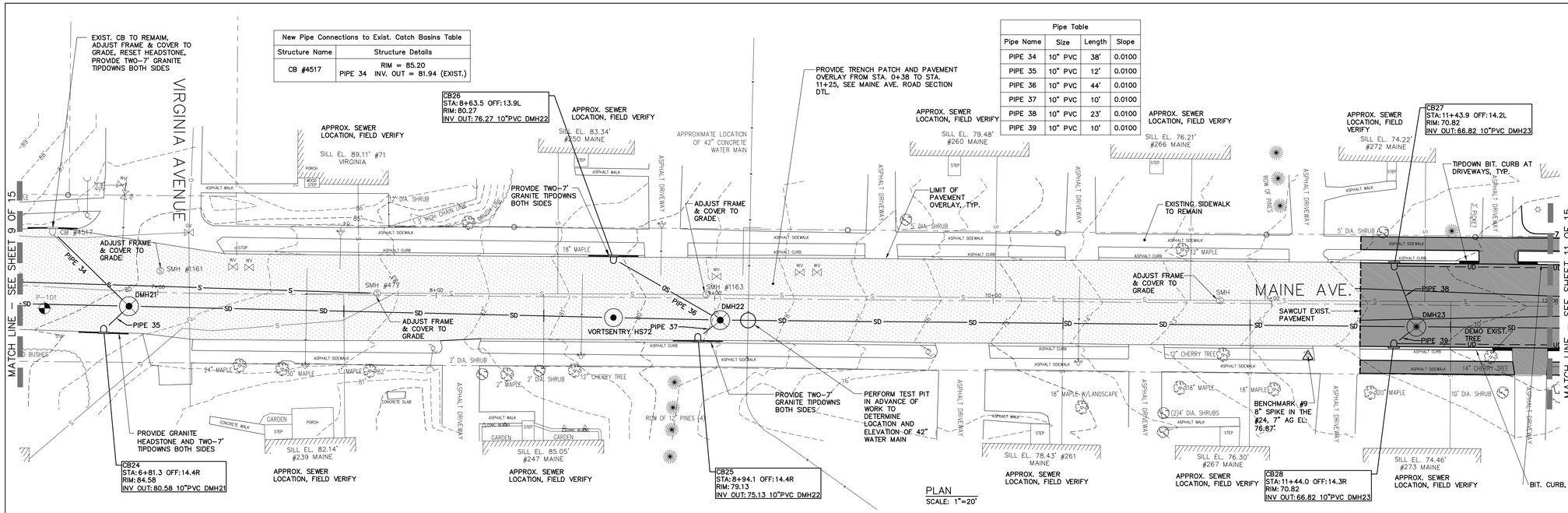
New Pipe Connections to Exist. Catch Basins Table	
Structure Name	Structure Details
CB #4517	RIM = 85.20 PIPE 34 INV. OUT = 81.94 (EXIST.)

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 34	10" PVC	38'	0.0100
PIPE 35	10" PVC	12'	0.0100
PIPE 36	10" PVC	44'	0.0100
PIPE 37	10" PVC	10'	0.0100
PIPE 38	10" PVC	23'	0.0100
PIPE 39	10" PVC	10'	0.0100



PLAN
SCALE: 1"=20'

NOTE:
1. PAVEMENT SHALL BE SAWCUT TO MATCH PIPE TRENCH WIDTH IN ACCORDANCE PIPE INSTALLATION DETAIL. PROVIDE PAVEMENT PATCH IN ALL AREAS WHERE PAVEMENT WAS DEMOLISHED TO INSTALL PIPES & STRUCTURES IN ACCORDANCE WITH PIPE INSTALLATION DETAIL.

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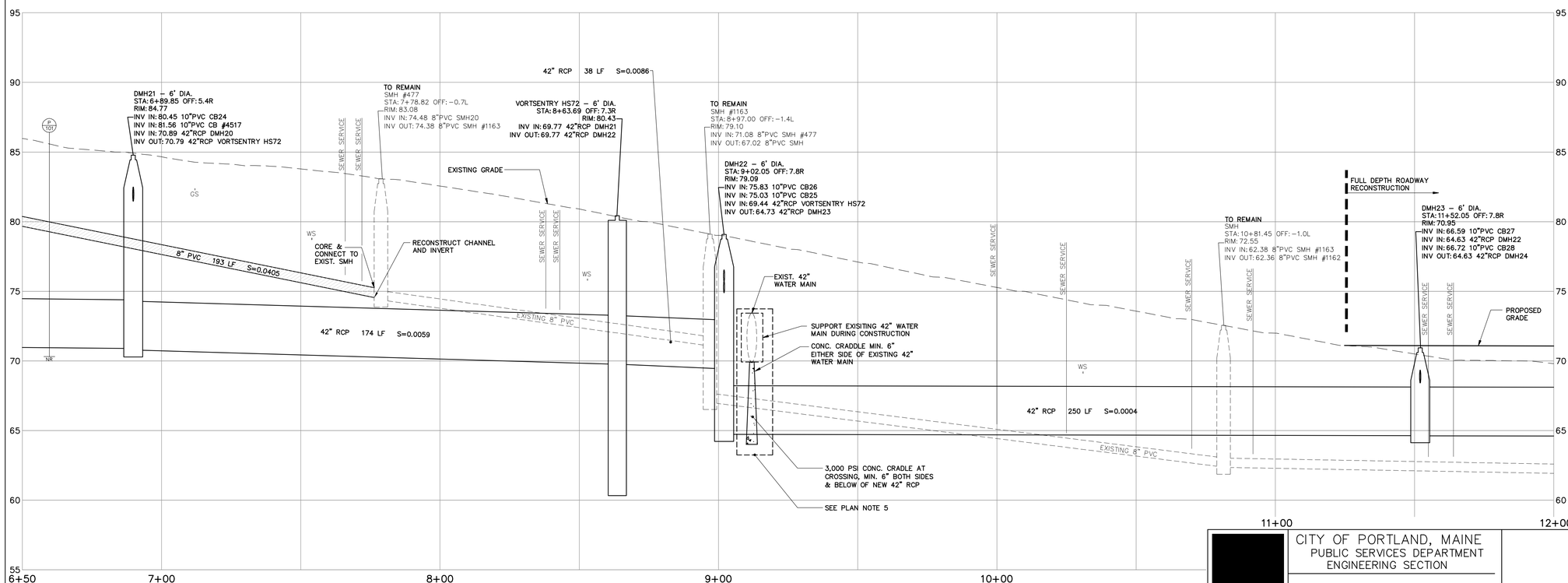
5. CONTRACTOR SHALL PREPARE A DETAILED PLAN IDENTIFYING THE CONSTRUCTION PROCEDURES TO BE UTILIZED IN PROXIMITY OF THE 42" WATER MAIN. THE PLAN SHALL ADDRESS THE MATERIALS AND PROCEDURES ASSOCIATED WITH THE INSTALLATION OF THE 42" STORM DRAIN BELOW THE EXISTING 42" WATER MAIN, INCLUDING TEST PITS, EXCAVATION, SHORING, TEMPORARY SUPPORT OF WATER MAIN, STORM DRAIN PIPE INSTALLATION, CONCRETE CRADLE CONSTRUCTION AND BACKFILL PROCEDURES. PLAN SHALL BE PREPARED, STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MAINE. PLAN SHALL BE SUBMITTED A MINIMUM OF 4 WEEKS IN ADVANCE OF ANY WORK IN PROXIMITY TO THE 42" WATER MAIN. PLAN SHALL BE SUBMITTED TO THE CITY OF PORTLAND FOR REVIEW AND APPROVAL BY THE CITY OF PORTLAND AND THE PORTLAND WATER DISTRICT.



PROFILE STA. 6+50 TO STA. 12+00

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

MAINE AVENUE
PLAN AND PROFILE
6+50 TO 12+00

STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

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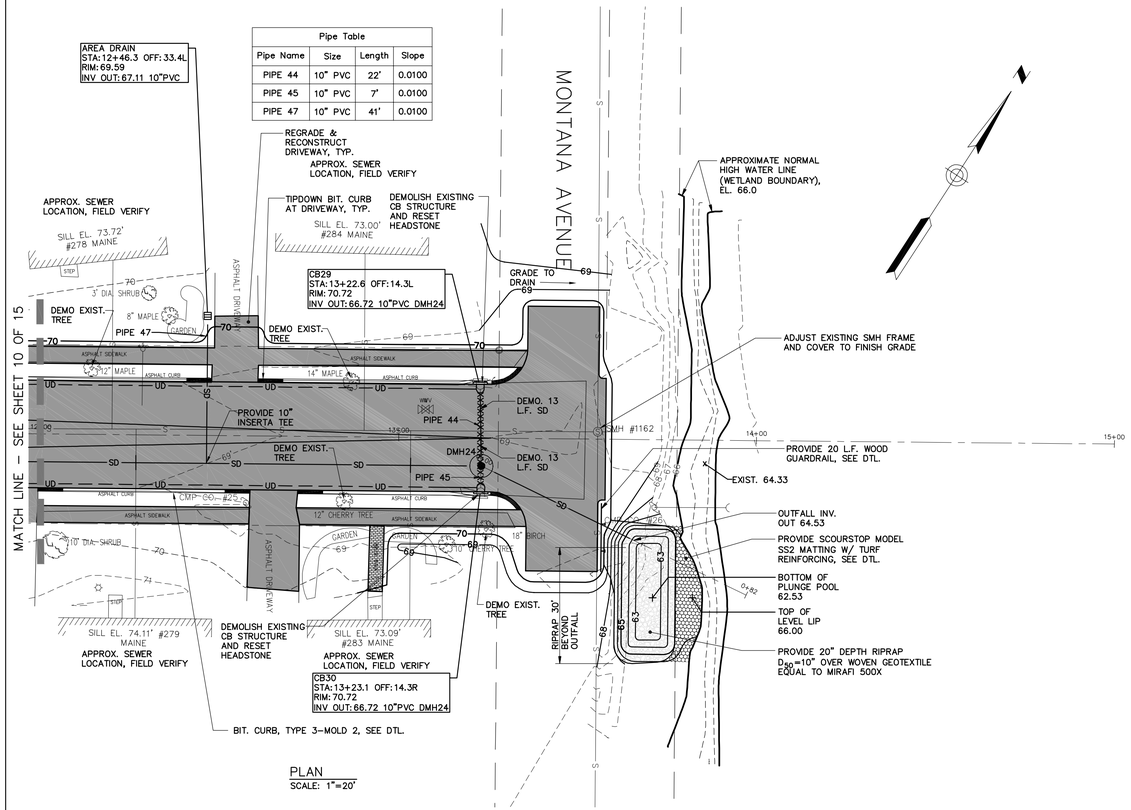

Pipe Table			
Pipe Name	Size	Length	Slope
PIPE 44	10" PVC	22'	0.0100
PIPE 45	10" PVC	7'	0.0100
PIPE 47	10" PVC	41'	0.0100

PLAN
SCALE: 1"=20'

NOTE:
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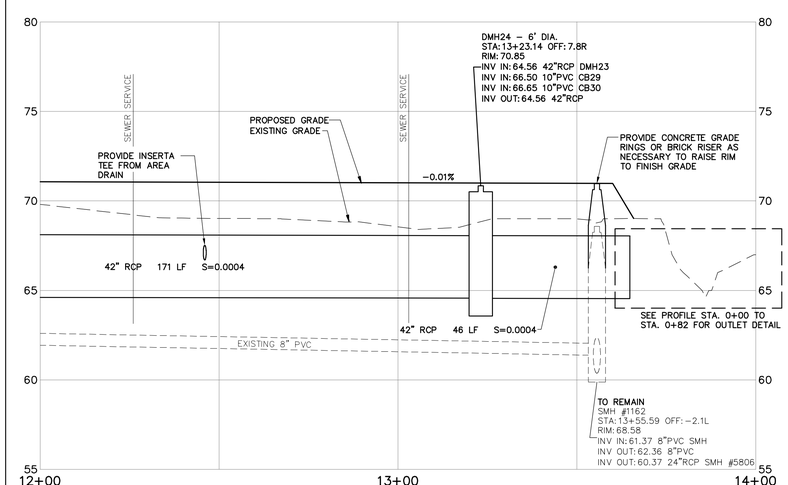
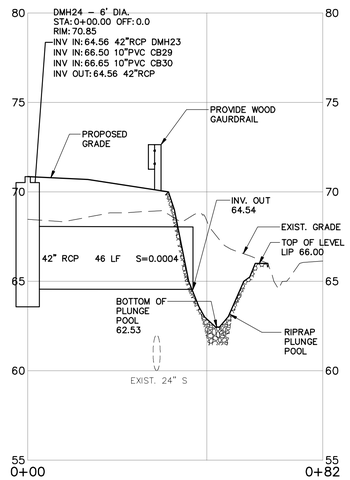


PROFILE STA. 12+00 TO STA. 14+00 (CENTERLINE OF ROADWAY)
SCALE: HORIZ. 1"=20'
VERT. 1"=4'



PROFILE STA. 0+00 TO STA. 0+82 (PIPE CENTERLINE)
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

20' 0 20' 40'
BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

MAINE AVENUE
PLAN AND PROFILE
12+00 TO END

STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
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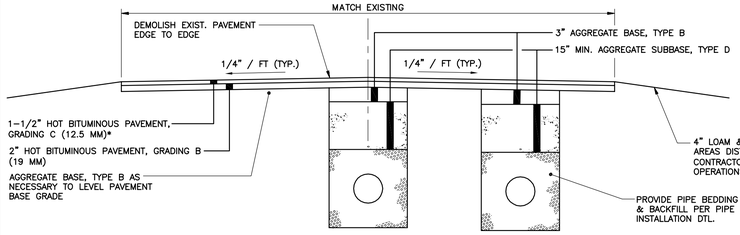
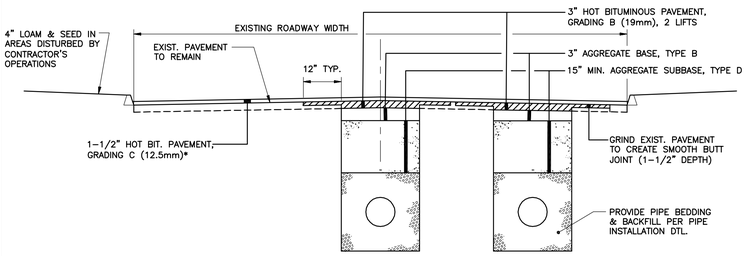


TYPICAL PAVED ROAD SECTION (RAY STREET)

N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

*1-1/2" OVERLAY, SEE SPECIFICATIONS FOR TIMEFRAME REQUIREMENTS

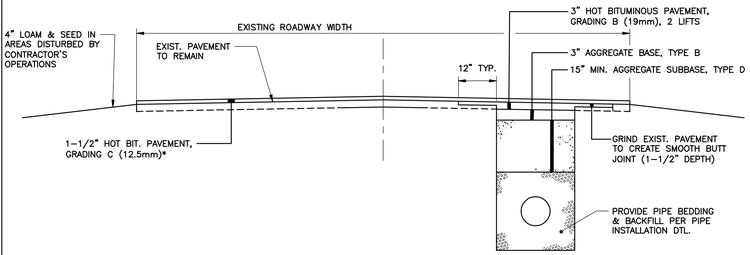


TYPICAL PAVED ROAD SECTION-MAINE AVE. (RAY ST. INTERSECTION TO STA. 11+25)

N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

*1-1/2" OVERLAY, SEE SPECIFICATIONS FOR TIMEFRAME REQUIREMENTS

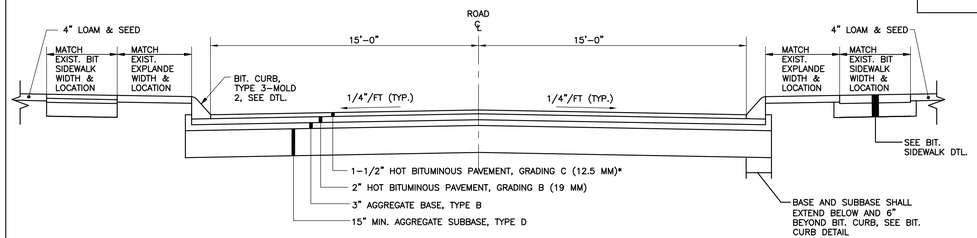


TYPICAL PAVED ROAD SECTION-FLORIDA AVE.

N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

*1-1/2" OVERLAY, SEE SPECIFICATIONS FOR TIMEFRAME REQUIREMENTS

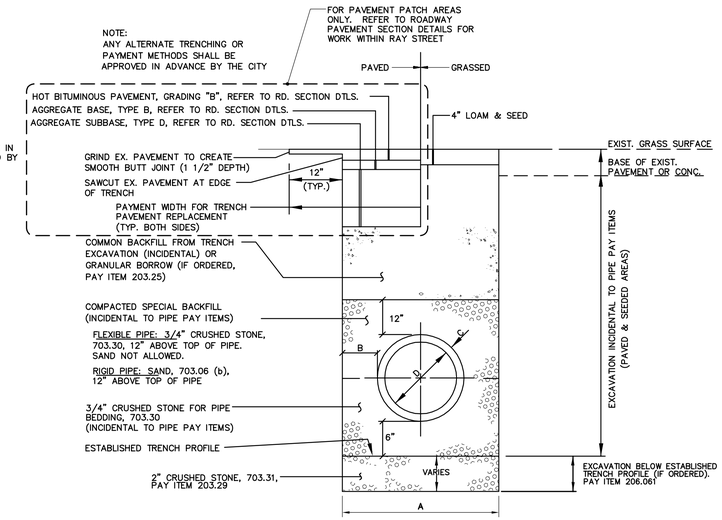


TYPICAL PAVED ROAD SECTION (MAINE AVE. 11+25-END)

N.T.S.

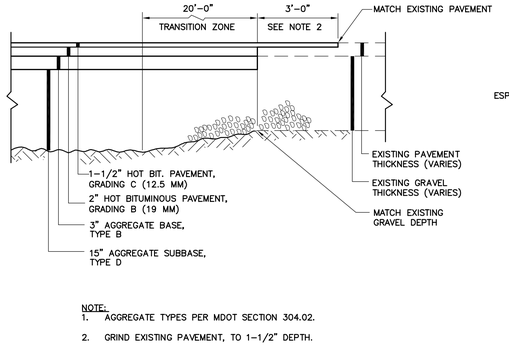
NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

*1-1/2" OVERLAY, SEE SPECIFICATIONS FOR TIMEFRAME REQUIREMENTS



PIPE INSTALLATION DETAIL

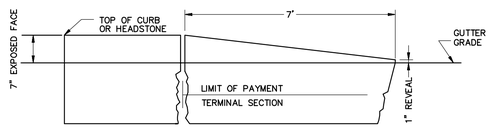
N.T.S.



NOTE:
1. AGGREGATE TYPES PER MDOT SECTION 304.02.
2. GRIND EXISTING PAVEMENT, TO 1-1/2" DEPTH.

PAVEMENT BUTT JOINT DETAIL

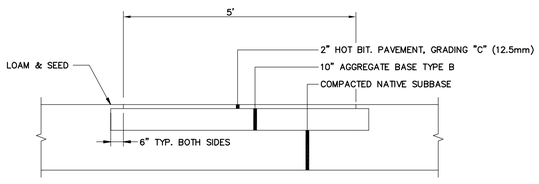
N.T.S.



TERMINAL SECTION TYPE "1"

TERMINAL CURB SECTION

N.T.S.



NOTE:

1. AGGREGATE TYPES PER MDOT SECTION 304.02

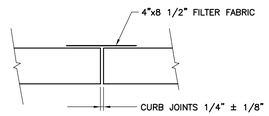
BITUMINOUS SIDEWALK DETAIL

N.T.S.

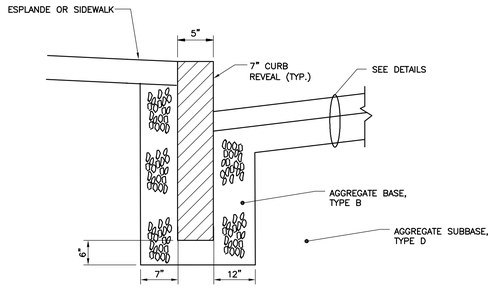
PIPE INSTALLATION DETAIL - NOTES

1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION "B" SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES "B" SHALL BE AT LEAST 9".
4. DIMENSION "A" IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER ITEMS 203.25 GRANULAR BORROW, 203.29 CRUSHED STONE, 206.061 STRUCTURAL EARTH EXCAVATION, BELOW GRADE AND 206.17 STRUCTURAL ROCK EXCAVATION. DIMENSION "A" SHALL BE BASED ON PIPE DIAMETER, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, "D" (INCHES)	MAX. TRENCH WIDTH, "A" (FEET)
6	4.0
8	4.0
10	4.0
12	4.0
15	4.0
18	5.0
21	5.0
24	5.5
27	6.0
30	6.0
36	7.0
42	8.0



PLAN



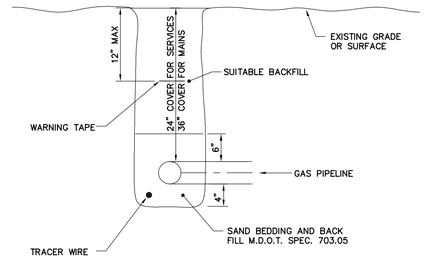
NOTE:

6" BASE SHALL BE COMPACTED TO A FIRM EVEN SURFACE PRIOR TO SETTING OF CURB.

RESET TYPE 1 GRANITE CURB

N.T.S.

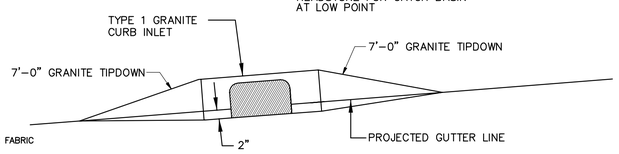
NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02



NATURAL GAS

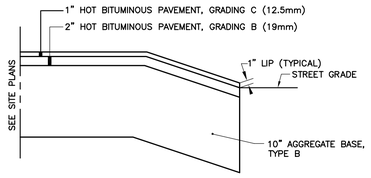
N.T.S.

NOTE: DISH 7' EITHER SIDE OF HEADSTONE FOR CATCH BASIN AT LOW POINT



TYPICAL PAVEMENT GRADING FOR CATCH BASINS

N.T.S.



TYPICAL DRIVEWAY

N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY ST./ MAINE AVE./ FLORIDA AVE. DETAILS

STATE OF MAINE
DAVID A. SENUS
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PROFESSIONAL ENGINEER
1/12/2009
WOODARD & CURRAN

REFERENCES:
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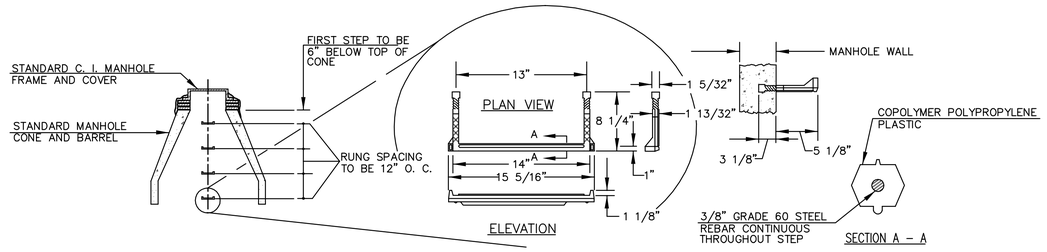
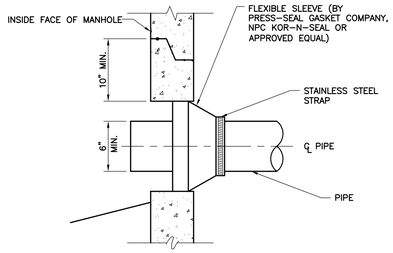


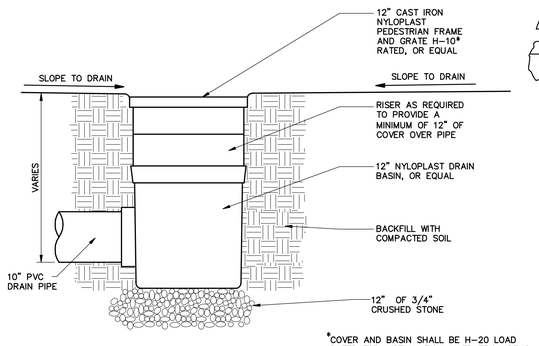
PLASTIC MANHOLE STEPS

N.T.S.



PIPE TO MANHOLE/CATCH BASIN CONNECTION DETAIL

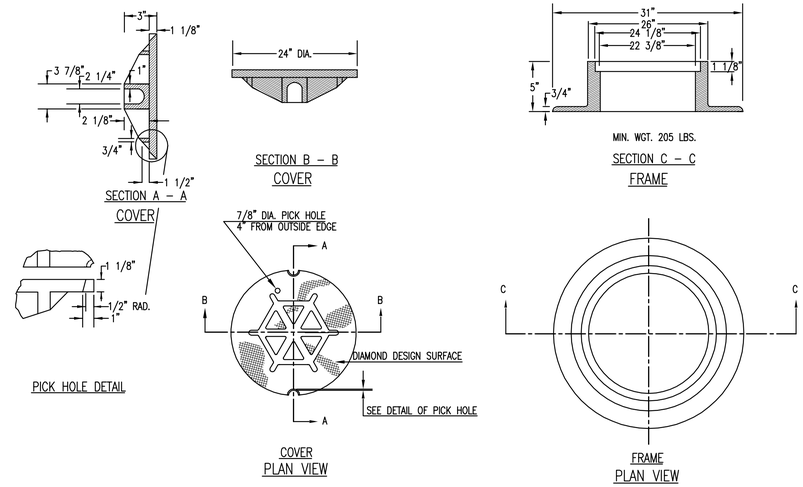
N.T.S.



AREA DRAIN DETAIL

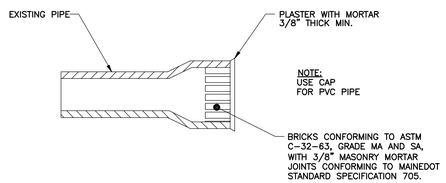
N.T.S.

*COVER AND BASIN SHALL BE H-20 LOAD RATED FOR INSTALLATION IN TRAFFIC AREAS



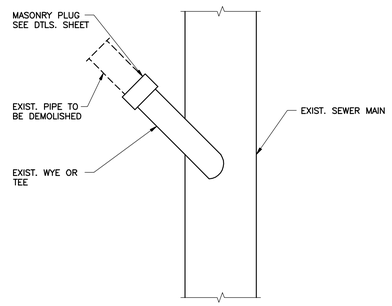
TYPE "A" CAST IRON MANHOLE COVER AND FRAME

N.T.S.



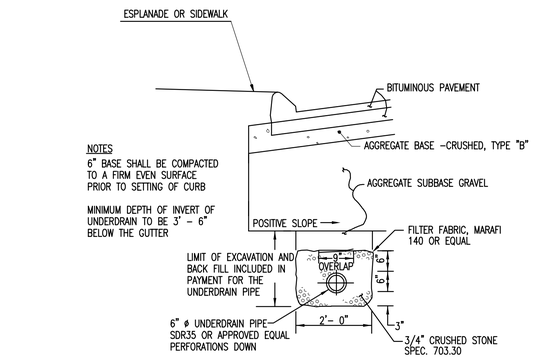
MASONRY PLUG DETAIL

N.T.S.



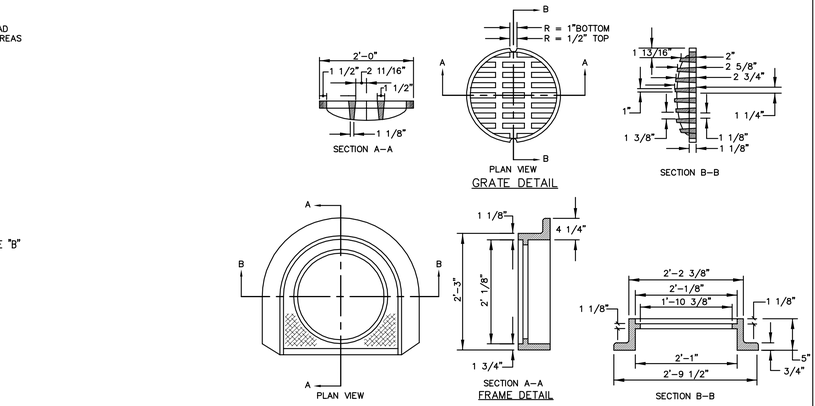
MASONRY PLUG @ MAIN

N.T.S.



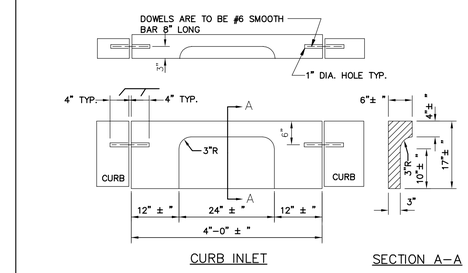
TYPE "B" UNDERDRAIN–OPTION "1"

N.T.S.



CATCH BASIN TYPE "D" – FRAME & COVER DETAIL

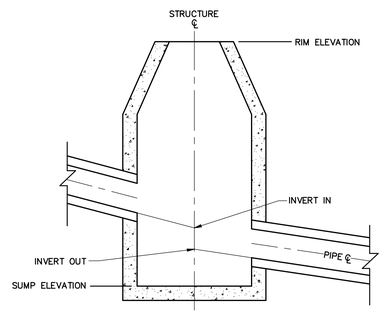
N.T.S.



CURB INLET SECTION A–A

TYPE 1 GRANITE CURB INLET

N.T.S.

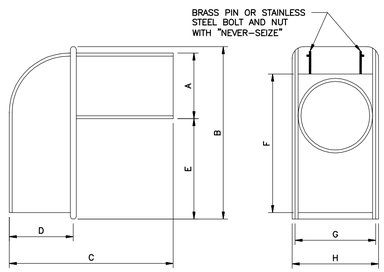


NOTE:

• INVERT ELEVATIONS & PIPE LENGTHS ARE MEASURED AT THE CENTERLINE OF THE MANHOLE, NOT THE INSIDE FACE.

MANHOLE INVERT MEASUREMENT PARAMETERS

N.T.S.



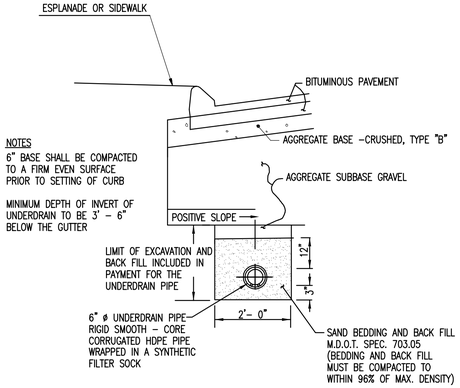
SIZE	A	B	C	D	E	F	G	H
10"	9 1/2"	16"	16 1/4"	6"	4 1/2"	14 1/8"	11 1/2"	12 3/8"

NOTE:

1. BOLT AND NUT REQUIRED WHERE HOOD WILL NOT OPEN COMPLETELY.

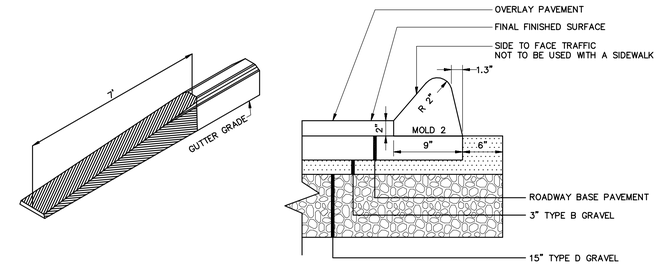
CASCO TRAP DETAIL

N.T.S.



TYPE "B" UNDERDRAIN–OPTION "2"

N.T.S.



BITUMINOUS CURB TYPE 3 – MOLD 2

N.T.S.

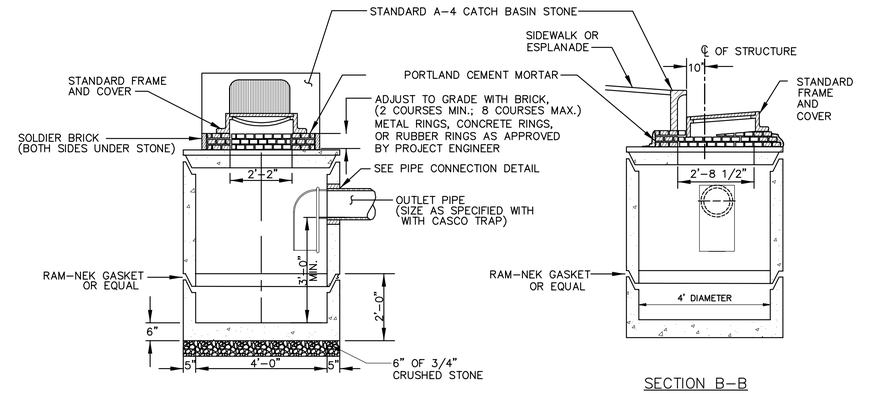
CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY ST./ MAINE AVE./ FLORIDA AVE. DETAILS

STATE OF MAINE · DAVID A. SENUS 10791 · PROFESSIONAL LICENSED ENGINEER · 1/12/2009 · WOODARD & CURRAN

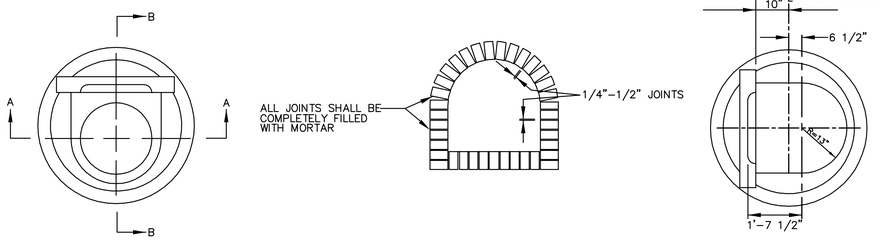
REFERENCES:
RAYST06T
STRIP_537001.dwg

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	13 OF 15



SECTION A-A

SECTION B-B



PLAN VIEW
COVER, FRAME AND STONE

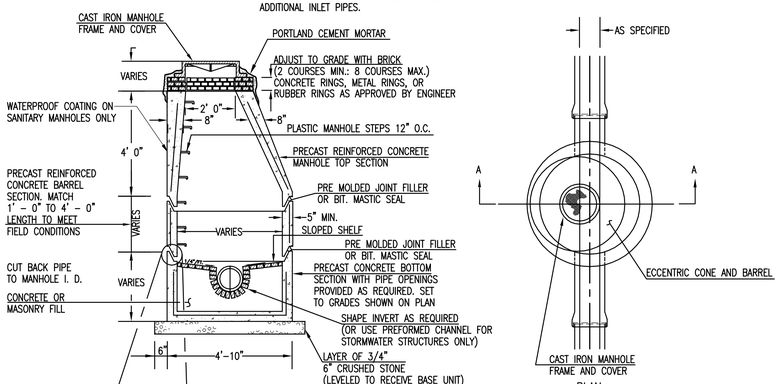
BRICK/JOINT DETAIL

PLAN VIEW
TOP SLAB

PRECAST CONCRETE CATCH BASIN

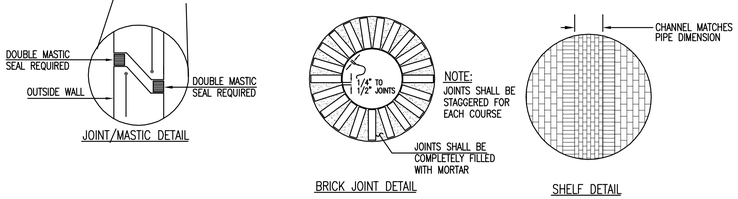
N.T.S.

NOTE:
MANHOLE CHANNELS REQUIRING CHANGE OF ALIGNMENT, TO BE BUILT ON SMOOTH RADIUS. CHANNEL TO BE SHAPED TO ACCEPT ADDITIONAL INLET PIPES.



SECTION A - A

PLAN



JOINT/MASTIC DETAIL

BRICK JOINT DETAIL

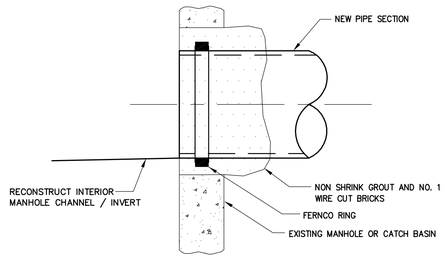
SHELF DETAIL

PRECAST CONCRETE MANHOLE

N.T.S.

GENERAL NOTES FOR MANHOLES AND CATCH BASINS

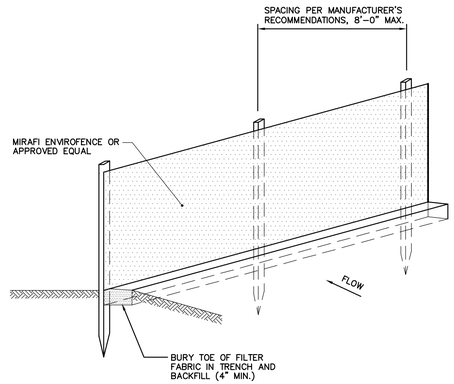
1. ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 lbs. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
2. PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478-67
3. ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTED OF BRICK MASONRY, SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY SUPPLEMENTAL SPECIFICATIONS SECTION 604.
4. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
5. MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
6. CONTRACTOR SHALL PROVIDE ANTI-FLOATATION CALCULATIONS FOR ALL MANHOLE AND CATCH BASIN STRUCTURES.
7. ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION, OFFSET, AND STRUCTURE ID PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
8. STORM MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED PICK HOLE.
9. EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
10. WHEN THE FLOW CHANGES DIRECTION IN A MANHOLE, THE CHANNEL ALIGNMENT SHALL FOLLOW A SMOOTH RADIUS. CHANNELS SHALL BE FORMED TO ACCEPT ALL INLET PIPES.
11. ON STORM DRAIN MANHOLES, THE SHELF AND CHANNEL SHALL BE FORMED BY BRICK SET IN CEMENT MORTAR OR BY FACTORY PRE-CAST CONCRETE. SUCH PRE-CAST CONCRETE SHALL BE EPOXY COATED AND THE SHELF SHALL HAVE A PERMANENT NON-SKID SURFACE.



NEW PIPE TO EXISTING STRUCTURE

NTS

NOTE: EXISTING MANHOLE OR CATCH BASIN SHALL BE CORE DRILLED FOR PIPE INSTALLATION



NOTES:

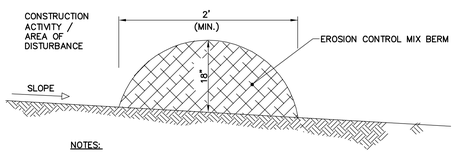
- INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS
- INSTALL SILT FENCE ACROSS SLOPES
- SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS

MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR LESS.

REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

SILTATION FENCE DETAIL

N.T.S.



NOTES:

Erosion Control Mix Berms

Erosion control mix can be manufactured on or off the project site. It must consist primarily of organic material and may include: shredded bark, stump grindings, composted bark, or acceptable manufactured products. Wood and bark chips, ground construction debris or reprocessed wood products will not be acceptable as the organic component of the mix.

Composition

Erosion control mix shall contain a well-graded mixture of particle sizes and may contain rocks less than 4" in diameter. Erosion control mix must be free of refuse, physical contaminants, and material toxic to plant growth. The mix composition shall meet the following standards:

- The organic matter content shall be between 80 and 100%, dry weight basis.
- Particle size by weight shall be 100 % passing a 6" screen and a minimum of 70%, maximum of 85%, passing a 0.75" screen.
- The organic portion needs to be fibrous and elongated.
- Large portions of silts, clays or fine sands are not acceptable in the mix.
- Soluble salts content shall be < 4.0 mmhos/cm.
- The pH should fall between 5.0 and 8.0.

EROSION CONTROL MIX BERM (CONTRACTOR OPTION)

N.T.S.

EROSION AND SEDIMENT CONTROL NOTES

Temporary Erosion Control:

Measure	Dates for use	Timing, Activity, and Location
Sedimentation Barrier	All	Before soil disturbance, install downhill of areas to be disturbed and around material stockpiles.
Up-slope Diversion	All	Before soil disturbance, install uphill of areas to be disturbed and material stockpiles.
Catch Basin Protection	All	Before soil or pavement disturbance, install ACF Environmental, Inc. High Flow Siltsack, Siltsaver Inlet Filter. or equal, installed per manufacturer's requirements.
Dust Control	All	During dry weather, apply water and calcium chloride to control dust.
Temporary Seeding	April 15 to Oct. 1	Soil stockpiles that are not covered and disturbed areas that will not be disturbed again within 14 days. If grass growth provides less than 95% soil coverage by Nov. 1, apply mulch and anchor with netting or hydraulically applied bonded fiber matrix.
Mulch	April 15 to Sept. 15	On all areas of exposed soil that are not temporarily seeded or that will not be disturbed again within 14 days, apply 70 to 90 lbs. mulch (2 bales) per 1,000 sq. ft. within the 21 day period.
Winter Mulch	Sept. 16 to Oct. 31	On all areas of exposed soil that are not temporarily seeded or that will not be disturbed again within 7 days, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. within the 7 day period. Erosion control blanket may be used as a substitute for winter mulch.
	Nov. 1 to April 14	On all areas of exposed soil that are not temporarily seeded, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. and anchor with netting at the end of each working day. Erosion control blanket may be used as a substitute for winter mulch.
Inspections	Until site is permanently stabilized	Inspect the erosion and sedimentation control measures daily, and maintain and repair as necessary.

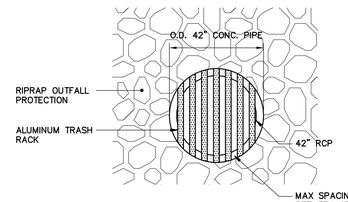
Permanent Erosion Control:

Measure	Dates for use	Timing, Activity, and Location
Pavement - Base Course	When no frost is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade.
- Final Course		Install near completion of project.
Permanent Seeding	April 15 to Sept. 15	On final grade areas, within 7 days of grade preparation, prepare topsoil, followed by seed and mulch application.
Dormant Seeding	Sept. 16 to April 15	On final grade areas, with prepared topsoil. Apply seed at double the specified rate on bare soil, and follow with an application of winter mulch.
Ground Cover, Trees, Shrubs	April 15 to Nov. 1	Install with final landscaping.
Permanent Mulch	All	Install with final landscaping.

Inspections:

Regular inspections of all erosion and sedimentation controls shall be made at least weekly and prior to and following storm events. Minimum inspections shall be made as listed in the table below.

Inspected Item	Look for
Mulched Surfaces	Thin mulch or inadequate application. Wind movement.
Seeded Surfaces	Poor seed germination. Loss of mulch. Development of rivulets.
Sediment Barrier	Sediment build-up to one half the height of the barrier. Undermining of the barrier. Supporting stakes loose, toppled, or unmarked. Breaks in barrier.
Perimeter Diversion	Discharge is to stabilized area. Erosion or breaks in barrier. Supporting stakes loose, toppled or unmarked.
Catch Basin Protection	Sediment build-up and structure blockages. Slow flow/Ponding water. Breaks in fabric or voids in barrier.
Dewatering Filter	Breaks in fabric or supporting structure. Slow flow, indicating high sediment build-up.
Construction Entrance	Sedimentation of roadways. Off-site dust complaints.



TRASH RACK NOTES:
1. DIMENSIONS & DETAILING OF TRASH RACK SHALL BE CONFIRMED & COORDINATED BY CONTRACTOR TO FIT 42" RCP. CONTRACTOR SHALL SUBMIT DESIGN OF TRASH RACK TO ENGINEER FOR REVIEW & APPROVAL PRIOR TO FABRICATION
2. ALUMINUM TYPE 6061-T6
3. WELDING PER AWS D1.2 LATEST ALUMINUM EDITION

TRASH RACK

N.T.S.

[redacted]

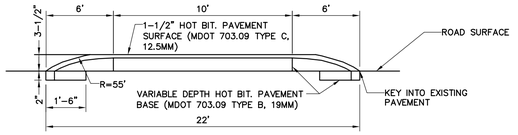
CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY ST./ MAINE AVE/ FLORIDA AVE. DETAILS

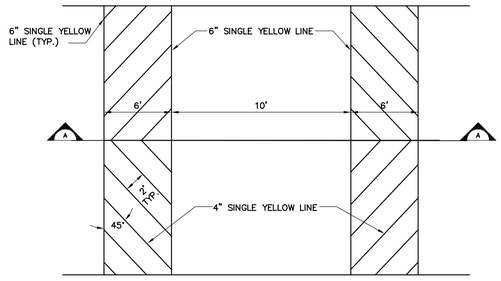
STATE OF MAINE
DAVID A. SENUS
10791
REGISTERED PROFESSIONAL ENGINEER
11/9/2009
WOODARD & CURRAN

REFERENCES:
RAYST06T
STRIP_537001.dwg

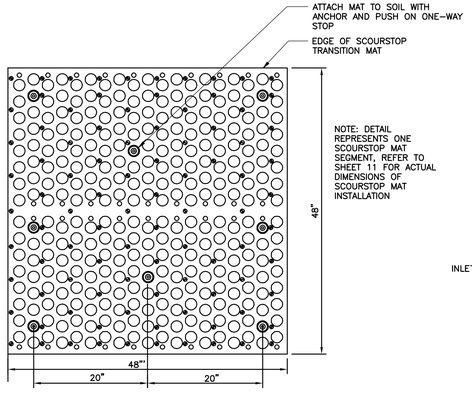
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	14 OF 15



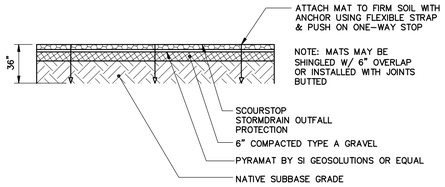
TYPICAL SECTION A–A
N.T.S.



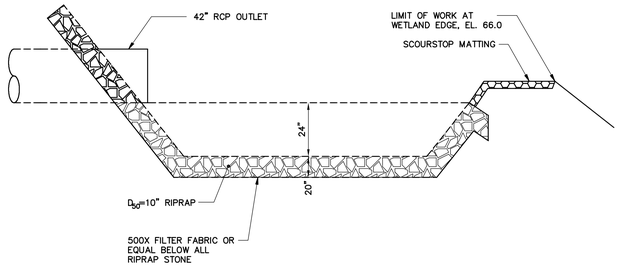
RAISED SPEED TABLE
N.T.S.



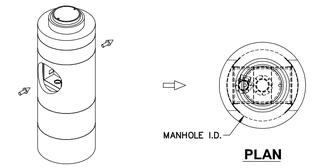
SCOURSTOP MAT SEGMENT
N.T.S.



SCOURSTOP SECTION
N.T.S.



OUTFALL RIPRAP PROTECTION DETAIL
N.T.S.

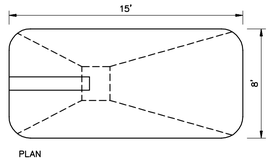


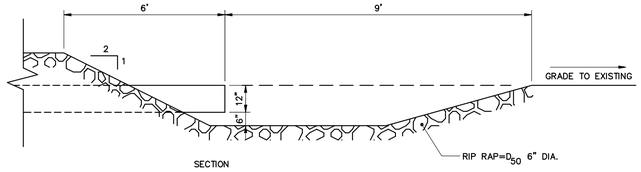
NOTES:

1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL REMOVE 80% OF A SEDIMENT GRADATION WITH AN AVERAGE PARTICLE SIZE OF 240 MICRONS AT THE DESIGNATED TREATMENT FLOW RATE OF 2.15 C.F.S..
2. SWTS REMOVAL EFFICIENCY CLAIM SHALL BE CORROBORATED BY FULL SCALE LABORATORY TEST PERFORMANCE DATA.
3. SWTS MAINTENANCE RECOMMENDATION SHALL BE SUPPORTED BY FULL SCALE WASH-OUT TESTING.
4. SWTS SHALL PROVIDE INTERNAL BYPASS OF FLOWS THAT EXCEED THE TREATMENT FLOW RATE.
5. SWTS MAXIMUM HYDRAULIC CAPACITY MAY VARY DEPENDING UPON THE INLET PIPE DIAMETER, MATERIAL AND SLOPE.
6. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION. INLET AND OUTLET PIPES MUST BE 180° FROM EACH OTHER.
7. ACCESS FRAME AND GRATE SHALL BE PROVIDED.
8. VORTSENTRY HS BY CONTECH STORMWATER SOLUTIONS; PORTLAND, OR (800) 548-4667; SCARBOROUGH, ME (877) 907-8676
9. VORTSENTRY UNIT SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL WORK WITH CONTECH STORMWATER SOLUTIONS TO DEFINE ACTUAL DIMENSIONS AND CONSTRUCTION DETAILS AND REQUIREMENTS.
10. "OR EQUAL" – CONTRACTOR MAY SUBMIT AN EQUAL PRODUCT FOR REVIEW. EQUAL PRODUCT MUST ACHIEVE STORMWATER QUALITY CRITERIA DEFINED UNDER NOTE 1 AND MUST CONFORM TO PLAN DIMENSIONS WITHOUT AFFECTING QUANTITIES OR PRICES OF OTHER PAY ITEMS.

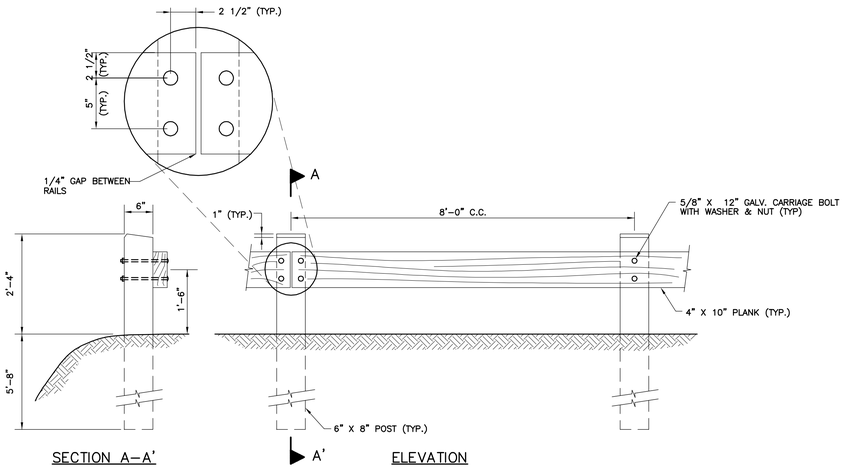
MODEL	MH DIA.	A DEPTH
HS72	6'	9.15'

STANDARD DETAIL STORMWATER TREATMENT SYSTEM VORTSENTRY
N.T.S.



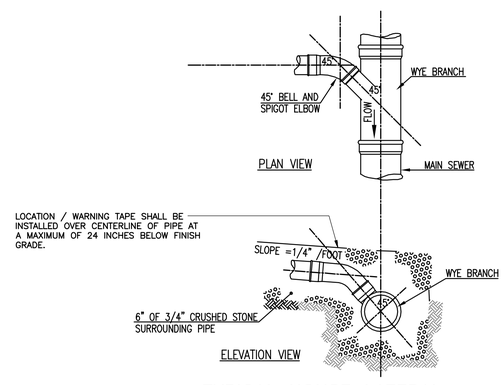


INLET RIPRAP PROTECTION
N.T.S.



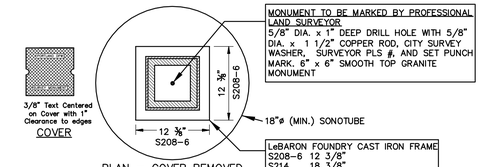
NOTES:
- ALL WOOD SHALL BE PRESSURE TREATED.
- ALL HARDWARE SHALL BE GALVANIZED.

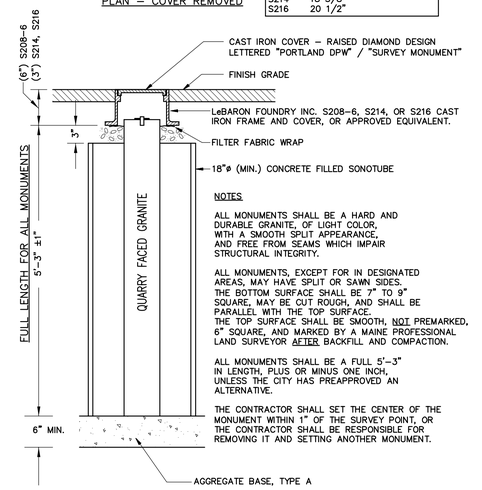
WOOD GUARDRAIL
N.T.S.



TYPICAL HOUSE LATERAL WYE CONNECTION DETAILS
N.T.S.

NOTE: FOR INSERTA TEE CONNECTIONS TO SEWER AND STORMDRAIN MAINS, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.





NOTES

ALL MONUMENTS SHALL BE A HARD AND DURABLE GRANITE, OF LIGHT COLOR, WITH A SMOOTH SPLIT APPEARANCE, AND FREE FROM SEAMS WHICH IMPAIR STRUCTURAL INTEGRITY.

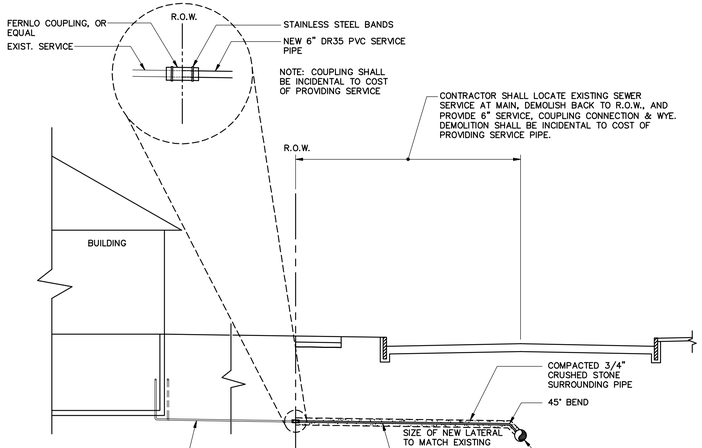
ALL MONUMENTS, EXCEPT FOR IN DESIGNATED AREAS, MAY HAVE SPLIT OR SAWN SIDES. THE BOTTOM SURFACE SHALL BE 7" TO 9" SQUARE, MAY BE CUT ROUGH, AND SHALL BE PARALLEL WITH THE TOP SURFACE. THE TOP SURFACE SHALL BE SMOOTH, NOT PREMARKED, 6" SQUARE, AND MARKED BY A MAINE PROFESSIONAL LAND SURVEYOR AFTER BACKFILL AND COMPACTION.

ALL MONUMENTS SHALL BE A FULL 5'-3" IN LENGTH, PLUS OR MINUS ONE INCH, UNLESS THE CITY HAS PREAPPROVED AN ALTERNATIVE.

THE CONTRACTOR SHALL SET THE CENTER OF THE MONUMENT WITHIN 1" OF THE SURVEY POINT, OR THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING IT AND SETTING ANOTHER MONUMENT.

GRANITE STREET MONUMENT
N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02



NOTE:
1. CONTRACTOR SHALL KEEP A COMPLETE RECORD OF WYE LOCATIONS, WHICH SHALL BE INCORPORATED INTO RECORD DRAWNGS AND PROVIDED TO CITY UPON COMPLETION OF CONTRACT.

SEWER SERVICE DETAIL
N.T.S.

[redacted]

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

RAY ST./ MAINE AVE./ FLORIDA AVE. DETAILS

STATE OF MAINE – DAVID A. SENUS 10791 – PROFESSIONAL ENGINEER – LICENSED – 1/12/2009
WOODARD & CURRAN

REFERENCES:
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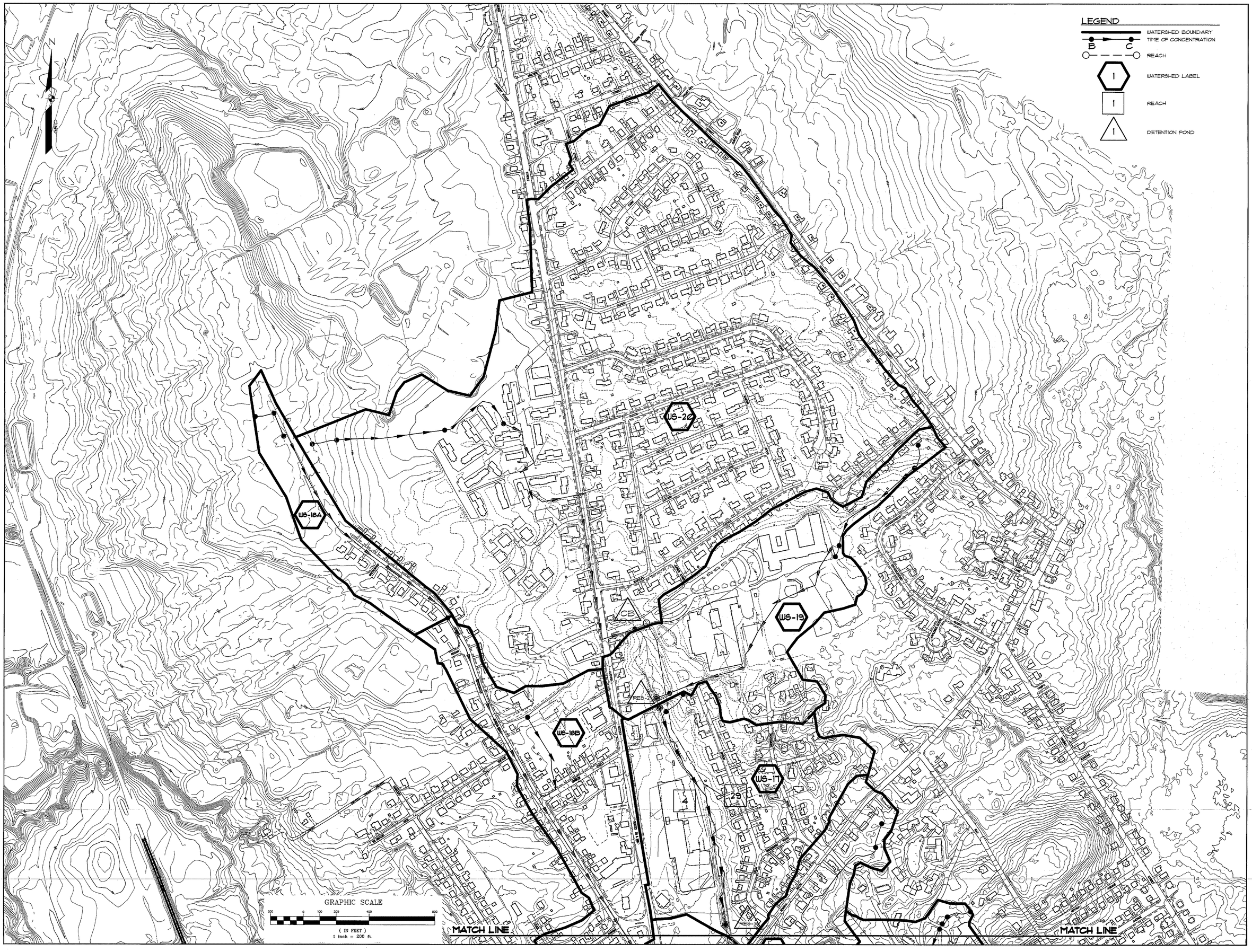
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	SHEET #
DAS	BCM	MAS/DAS/BSS	JAN. 12, 2009	AS NOTED	15 OF 15



STATE OF MAINE * DANIEL J. RILEY * No. 9897 * REGISTERED PROFESSIONAL ENGINEER

REV:	BY:	DATE:	STATUS:
C	DLR	05-10-13	REVISED PER L.D.M.R. REVIEW COMMENTS
B	DLR	9-12-12	PEER REVIEW COMMENTS
A	DLR	9-27-10	ISSUED WITH FALL BROOK FLOODPLAIN STUDY

SEBAGO TECHNICS
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75 John Roberts Road, Suite A
South Portland, ME 04106
Tel: 207-200-2100
250 Lisbon St., Suite B
Lewiston, ME 04240
Tel: 207-783-9826

WATERSHED MAPS
OF:
FALL BROOK FLOOD STUDY
PORTLAND, MAINE

FOR:
CITY OF PORTLAND
389 CONGRESS STREET
PORTLAND, MAINE

DATE	SCALE
8-13-10	1"=200'
PROJ. NO.	DWG NAME
10055	10055SWP
FIELD BOOK	DESIGN BY
886	DLR/JRH
DRAWN BY	CHECKED BY
JRH	DLR

SHEET 1 OF 3

10055SWP.dwg, TAB: WS1

STATE OF MAINE
DANIEL L. RILEY
No. 9967
PROFESSIONAL ENGINEER

REV:	BY:	DATE:	STATUS:
C	DLR	05-10-13	REVISED PER LOMR REVIEW COMMENTS
B	DLR	9-17-12	FALL BROOK LOMR
A	DLR	9-21-10	ISSUED WITH FALL BROOK FLOODPLAIN STUDY

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WATERSHED MAPS
OF:
FALL BROOK FLOOD STUDY
PORTLAND, MAINE
FOR:
CITY OF PORTLAND
389 CONGRESS STREET
PORTLAND, MAINE

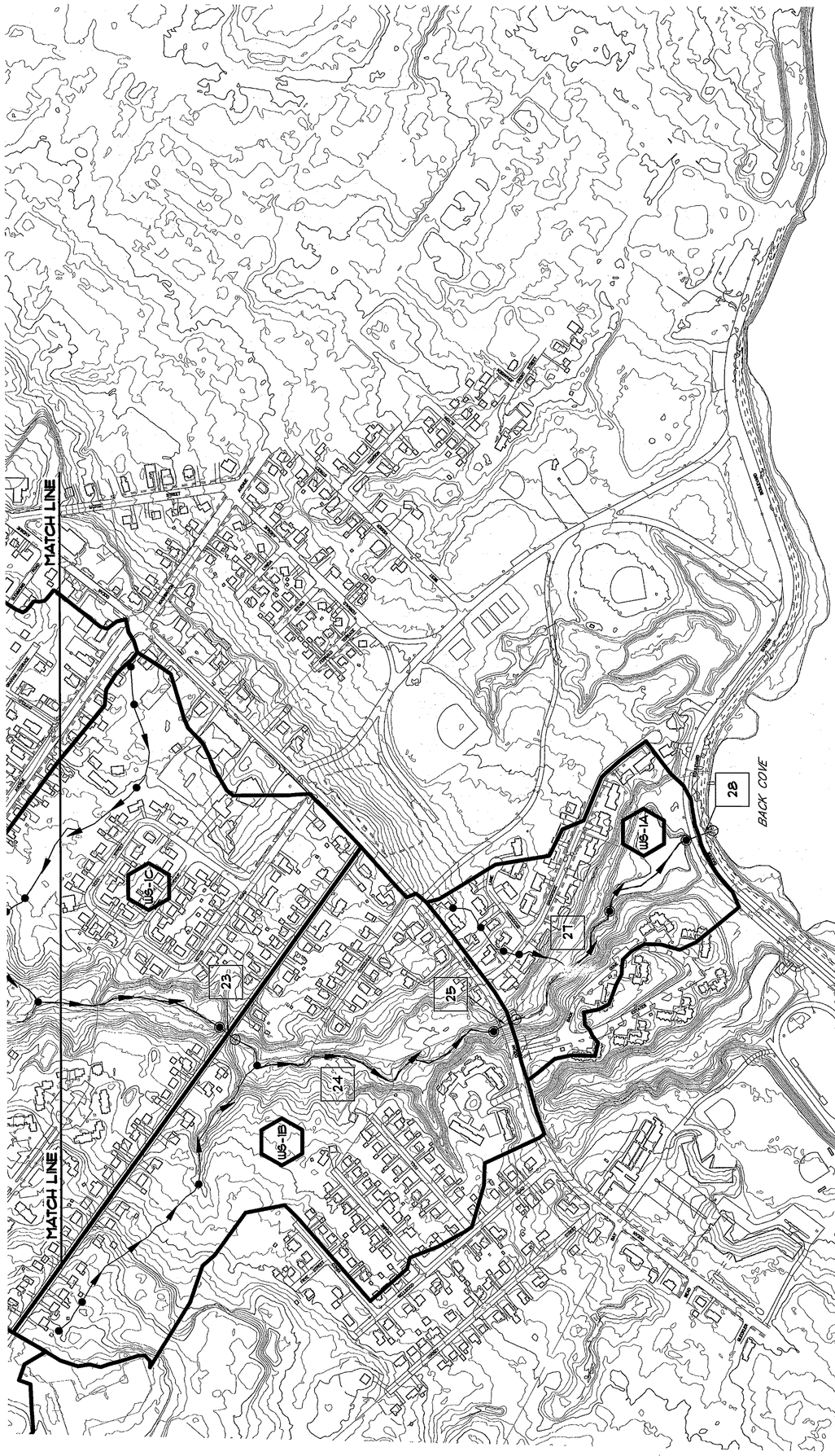
DATE	SCALE
8-13-10	1"=200'
PROJ. NO.	DWG NAME
10055	10055SWP
FIELD BOOK	DESIGN BY
886	DLR/JRH
DRAWN BY	CHECKED BY
JRH	DLR

SHEET 2 OF 3

10055SWP.dwg, TAB: WS2

LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION
- REACH
- WATERSHED LABEL
- REACH
- DETENTION POND



GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

NORTH GRID

REV.	BY:	DATE:	STATUS:
A	DLR	9-21-10	ISSUED WITH FALL BROOK FLOODPLAIN STUDY
B	DLR	9-17-12	FALL BROOK LOWR
C	DLR	06-10-13	REVISED PER LOWR REVIEW COMMENTS

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STATE OF MAINE
DANIEL L RILEY
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WATERSHED MAPS
OF:
FALL BROOK FLOOD STUDY
PORTLAND, MAINE
FOR:
CITY OF PORTLAND
389 CONGRESS STREET
PORTLAND, MAINE

DATE	8-13-10
PROJ. NO.	10065
FIELD BOOK	888
DRAWN BY	JRH
SCALE	1"=200'
DWG NAME	10055WP
DESIGN BY	DLR/JRH
CHECKED BY	DLR

SHEET 3 OF 3

10055WP.dwg, TAB: WS3

From:	Katherine Joyce
To:	Burke, Ruth A; Bertocci, Cynthia S; Bensinger, Peggy; Green, Robert L; Sirois, Alison; ihouseal@yahoo.com; mdenbow@maine.rr.com; dmaguire@sandyriver2.com; Daniel Danvers
Cc:	Rachael Becker McEntee
Subject:	Appeal of #L-11219-TE-H-N Fallbrook Commons - Applicant"s Comments on Proposed Supplemental Evidence
Date:	Thursday, July 30, 2020 4:11:00 PM
Attachments:	20200730 Ltr to BEP re Supplemental Evidence - FINAL.pdf Attachment 1 - February 18, 2020 Mtg. Sign-in Sheet & Denbow Return Reciept.PDF Attachment 2 - 2009 Ray Street Sewer Separation Project Plans.PDF Attachment 3 - Fall Brook Watershed Maps Rev C 5-10-13.PDF

Good afternoon,

On behalf of our client, Fallbrook Commons Development, LLC, we respectfully submit the attached comments from the Applicant on Appellant Denbow's Proposed Supplemental Evidence.

These comments include three pieces of Proposed Supplemental Evidence from the Applicant for the Board's consideration, the context of which is described in our comments, and which are also included in this email as separate attachments.

We appreciate your attention to this matter.

Best,

Kat

Katherine Joyce
she/her/hers pronouns
Shareholder
Energy & Environmental Practice Group Leader
207 228-7297 direct
207 774-1200 main
My Bio | LinkedIn | Twitter

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Portland, ME | Manchester, NH | Augusta, ME | bernsteinshur.com

STATE OF MAINE
BOARD OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

Mark C. Draper, Chair

Cynthia S. Bertocci
Executive Analyst

Ruth Ann Burke
Board Clerk

Sent by electronic mail only

September 8, 2020

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ddanvers@sebagotechnics.com

RE: Fallbrook Commons, Department Order #L-11219-TE-H-N
Appeals by Ian Houseal and Michael Denbow
Ruling on Proposed Supplemental Evidence

Dear Participants:

On June 4, 2020, the Department of Environmental Protection (Department) issued Department Order #L-11219-TE-H-N granting a Natural Resources Protection Act (NRPA) permit[1] to Fallbrook Commons Development, LLC for the construction of a nursing care center on Merrymeeting Drive in Portland. The Board of Environmental Protection (Board) received two timely appeals of the Department's decision:

- Ian Houseal, appeal dated June 27, 2020 received June 29, 2020; and

[1] The project is also the subject to the Site Location of Development Act and Fallbrook Common Development, LLC's application for that permit is pending with the City of Portland. The permit application under that law to the City of Portland is a separate proceeding.

- Michael Denbow, appeal dated June 28, 2020, received June 30, 2020.

Mr. Denbow's appeal contains information that is not in the Department's licensing record, which means that the information was not considered by the Department when it made its decision on the NRPA permit application. This new information, which is listed below, constitutes proposed supplemental evidence:

- Page 4, second paragraph, reference to Maine Threatened and Endangered Species Listing Handbook dated January 22, 2009; and
- Page 5, section (d) Water Quality, information pertaining to water usage, estimated sanitary sewer discharges and their potential for overflow, and treatment of (stormwater) runoff.

On July 30, 2020, Ms. McEntee, on behalf of the licensee, commented on the admissibility of Mr. Denbow's proposed supplemental evidence and offered the following three exhibits in response in the event Mr. Denbow's proposed supplemental evidence is admitted:

- Attachment 1. Copy of the sign-in sheet for the February 18, 2020 public meeting on Fallbrook Common's Site Law application pending with the City of Portland signed by Mr. Denbow and a certified mail receipt indicating service of notice to Debra Denbow at 69 Florida Avenue;
- Attachment 2. Plans provided by the City of Portland documenting the constructed storm drains; and
- Attachment 3. Watershed map documenting the revised Fall Brook watershed boundary in the vicinity of the project site.

The criteria for the Board to admit proposed supplemental evidence is found in Chapter 2 § 24(D)(2) of the Department's *Rule Concerning the Processing of Applications and Other Administrative Matters*:

> The Board may allow the record to be supplemented on appeal when it finds that the evidence offered is relevant and material and that:
>
> (a) the person seeking to supplement the record has shown due diligence in bringing the evidence to the attention of the Department at the earliest possible time; or
> (b) the evidence is newly discovered and could not, by the exercise of reasonable diligence, have been discovered in time to be presented earlier in the licensing process.

I have reviewed the proposed evidence submitted by both Mr. Denbow and the licensee, and my ruling is as follows:

- The "Maine Threatened and Endangered Species Listing Handbook" dated January 22, 2009 referred to by Mr. Denbow is admitted. It is arguably relevant to the wildlife findings in the Department's NRPA decision. Given the miscommunication that appears to have occurred between Department staff and Mr. Denbow during the processing of the application, the document could not have been provided earlier in the licensing process. Additionally, the document is a State agency publication available on-line of which the Board may take official notice.

- The information in the Water Quality section of Mr. Denbow's appeal document, page 5, section (d), , pertaining to water usage, estimated sanitary sewer discharges and their potential for overflow, and treatment of (stormwater) runoff is not admitted. Stormwater management and provisions for the disposal of sanitary wastes are not relevant to the NRPA permit. While this section will not be redacted from Mr. Denbow's appeal document, the Board will not consider it in the Board's evaluation of the appeals. The City of Portland is conducting an in-depth review of these criteria as part of its review of the Site Location of Development (Site Law) application, which is pending. The appellants are able to participate in the City's review of the project.

- Licensee's Attachment 1 pertaining to notice to Mr. Denbow is admitted. It is relevant to the issue of adequate notice that has been raised by Mr. Denbow in his appeal. As the issue was raised in the appeal, the licensee has provided the information at the earliest possible time.

- Licensee's Attachment 2 and Attachment 3 are not admitted to the record. As stated above, the NRPA permit under appeal does not address stormwater management. Stormwater management is being addressed in conjunction with the City's review of the Site Law permit application for the proposed project.

In accordance with provisions of Chapter 2, § 24(C)(4) of the Department's rules, the deadline for the filing of responses to the merits of the appeals is 20 days after the Board Chair's decision on the admissibility of all of the proposed supplemental evidence, in this case by **Monday, September 28, 2020 at 5:00 p.m.** Responses to the appeals may be filed by the licensee and any other persons who filed written comments on the application with the Department.

If you have any questions, you may contact Cynthia Bertocci, the Board's Executive Analyst, (207) 287-2452 or Peggy Bensinger, Assistant Attorney General, at (207) 626-8578.

Sincerely,

Mark C. Draper, Chair
Board of Environmental Protection

cc: Service List
Interested Persons List