

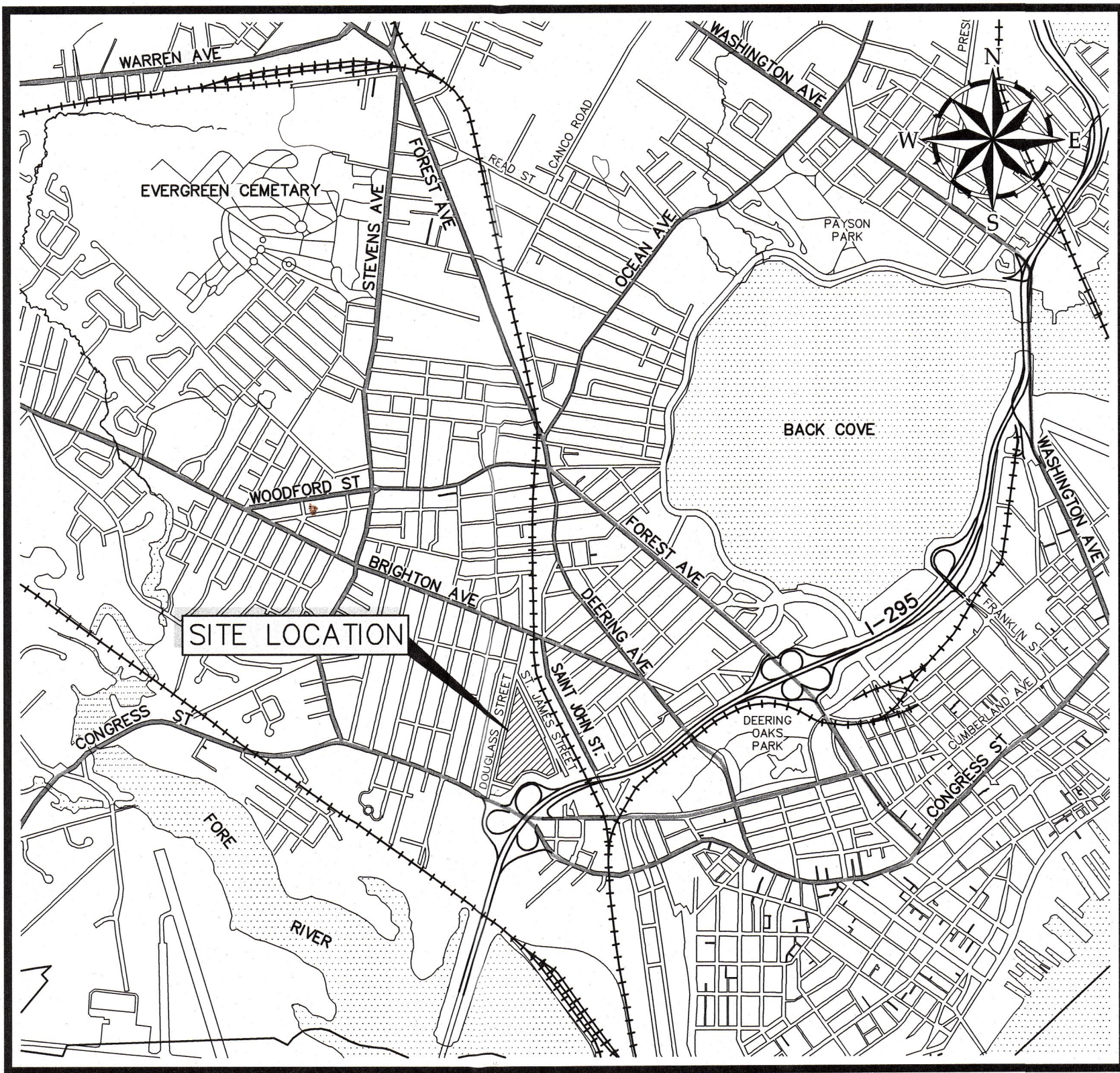
CITY OF PORTLAND PUBLIC SERVICES DEPARTMENT

CONTRACT DRAWINGS

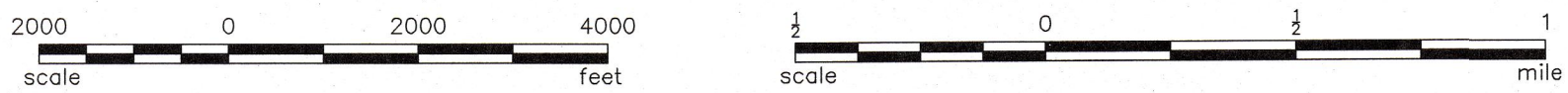
DOUGHERTY FIELD IMPROVEMENTS

YEAR
APPROVED
2010

SEPTEMBER 2010



SITE LOCATION MAP



*Dougherty field maps
re whole of field + several
plans of Skate Park
HFE 10-799 00030
me solution*

SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

INDEX OF PLANS	
COVER SHEET	
EXISTING CONDITIONS PLAN	
1 GENERAL NOTES, LEGEND, AND ABBREVIATIONS	
2 GRADING AND UTILITY PLAN	
3 SKATE PARK AREA GRADING & DRAINAGE PLAN	
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CITY OF PORTLAND
APPROVED SITE PLAN
 Subject to Dept. Conditions
 Date of Approval: 11/18/2010

Note as of 12-17-2010

- ① Subject to bl-site
- ② Subject to \$300 Ins. Fee Planning
- ③ Needs pro-con mtg.

DAVID
SENUŠ
10791
09/03/2010

REGINA S.
LEONARD
NO. 3123
STATE OF MAINE

SEAL & SIGNATURE

O:\203939 City of Portland-General Engineering Services\wp\65 Dougherty Field Phase 1\Drawings\203939.65-0000.dwg, Sep 03, 2010 - 2:58pm



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Regina S. Leonard
landscape architecture & design
29 Bridge Street
Topsham, Me 04086
Tel. 207.450.9700
Regina@rsldesign.com

PL. DU. FILE SET

D:\203939_City of Portland-General Engineering Services\p_65_Dougherty Field Phase 1\Drawings\203939.65-0001.dwg, Sep. 03, 2010 - 2:59pm

GENERAL NOTES:

- SITE AND TOPOGRAPHIC DATA PROVIDED BY CITY OF PORTLAND, MAINE, PUBLIC SERVICES DEPARTMENT, ENGINEERING SECTION, AS A RESULT OF A FIELD SURVEY CONDUCTED BETWEEN MAY AND NOVEMBER 2000. PLAN REFERENCED: DOUGHERTY FIELD, EXISTING CONDITIONS PLAN FOR FIELD IMPROVEMENTS, DOUGLASS ST./ST. JAMES ST., DATED MARCH 2006, VAULT PLAN 991/7, SHEET# 1 OF 1.
- EXISTING CONDITIONS BASE MAPPING HAS BEEN UPDATED TO REFLECT MODIFICATIONS THAT HAVE OCCURRED TO THE SITE SINCE THE SITE WAS SURVEYED IN 2000. THESE MODIFICATIONS ARE BASED ON FIELD VISITS, AERIAL PHOTOS, AND DESIGN PLANS, AND DO NOT REFLECT ALL MODIFICATIONS THAT MAY HAVE OCCURRED ON THE SITE SINCE THE TIME OF THE ORIGINAL SURVEY.
- VERTICAL DATUM IS REFERENCED TO CITY DATUM WITH ONE FOOT CONTOUR INTERVALS. CITY DATUM IS +0.02 FT NAVD 1929. HORIZONTAL DATUM IS REFERENCED TO STATE PLANE NAD 1983 (FEET), MAINE WEST ZONE.
- THE UTILITY LOCATIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
- CLEAN AND/OR FLUSH ALL NEW AND MODIFIED MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES AND APPROPRIATE CITY DEPARTMENTS. NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTACT "DIG SAFE", TELEPHONE 888-344-7233, PRIOR TO EXCAVATION.
- RESTORE ALL AREAS DISTURBED BY WORK ACTIVITIES TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.). ANY CURB DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AND SHALL CONFORM TO CITY OF PORTLAND AND MAINE DOT SPECIFICATIONS.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE CITY.
- EXISTING FACILITIES (I.E. TREES, POLES, LIGHT POSTS, CATCH BASINS, ETC.) SHALL BE REMOVED AND PROTECTED DURING CONSTRUCTION. CITY RETAINS RIGHT TO KEEP ANY AND ALL REMOVED FACILITIES.
- ALL TREES NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED DURING CONSTRUCTION.
- ALL WORK WITHIN THE RIGHT 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.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
- 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.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "RECORD" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO THE DESIGN PLANS OR EXISTING CONDITIONS PLAN BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT.
- FOR TEST PIT LOCATIONS SHOWN ON PLANS, FIELD VERIFY UTILITY ELEVATIONS PRIOR TO ORDERING CATCH BASIN & MANHOLE STRUCTURES. NOTIFY ENGINEER OF ANY CONFLICTS.
- CONTACT CITY OF PORTLAND ARBORIST AND ENGINEER PRIOR TO CUTTING ROOTS, TRIMMING BRANCHES, OR DISTURBING TREES THAT NOT HAVE BEEN NOTED FOR REMOVAL ON THE PLANS.
- PROVIDE 4-INCHES OF LOAM AND SEED IN ALL LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS.
- IF CONTRACTOR PROPOSES TO TEMPORARILY STOCKPILE ANY SURPLUS SOIL AND ROCK IN THE CITY OF PORTLAND, THE CONTRACTOR SHALL OBTAIN APPROVAL FOR EACH STOCKPILE LOCATION FROM THE ENGINEER. IF CONTRACTOR PROPOSES TO PERMANENTLY STOCKPILE ANY SURPLUS SOIL AND ROCK ON PROPERTY IN THE CITY OF PORTLAND, THE CONTRACTOR MUST OBTAIN ANY SITE PLAN PERMITS REQUIRED FROM THE CITY PLANNING AUTHORITY OR ANY FILL PERMITS REQUIRED FROM MDEP OR U.S. ARMY CORPS OF ENGINEERS. BOTH TEMPORARY AND PERMANENT STOCKPILE LOCATIONS SHALL MEET THE APPLICABLE SETBACK REQUIREMENTS IN THE CITY LAND USE CODE AND SHALL RECEIVE PROPER STABILIZATION AND EROSION & SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED SOIL EROSION & WATER POLLUTION CONTROL PLAN.

SYMBOLS

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
CATCH BASIN W/ HEADSTONE		
CATCH BASIN, FIELD INLET		
AREA DRAIN		
UTILITY POLE W/GUY		
UTILITY POLE		
LIGHT POLE		
WATER GATE		
WATER VALVE		
WATER SHUT OFF		
HYDRANT		
SIGN		
MAILBOX		
CONIFEROUS TREE		
DECIDUOUS TREE		
IRON PIN (FOUND)		
MONUMENTS (FOUND)		
BORING/PROBE & NUMBER		
MONITORING WELL		
BUILDING		
IRON PIPE/ROD FOUND		
MONUMENT FOUND		
DRILL HOLD FOUND		
SPIKE SET		
SPIKE FOUND		
PK SET (SURVEY INSTRUMENT STATION)		
PK FOUND		
BUILDING CORNER		
LEDGE OUTCROP		
TEST PIT		
ROADWAY BITUMINOUS PAVEMENT DEMOLISH AND REPAVE		

LINE TYPES

DESCRIPTION	EXISTING	PROPOSED
CONTOUR (1' INTERVAL)		
CONTOUR (INDEX)		
STORM DRAIN		
UNDERDRAIN		
CULVERT		
WATER		
FENCE		
BARRIER SILTATION		
CURB		
EDGE OF PAVEMENT		
EDGE OF GRAVEL		
SAWCUT		

ABBREVIATIONS

&	AND ABOVE GROUND
A.G.	AND ABOVE GROUND
BIT	BITUMINOUS
B/W	BETWEEN
CB	CATCH BASIN
CI	CAST IRON
CMP	CENTRAL MAINE POWER
CMP	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
G	GAS MAIN
OS	GAS SERVICE
GALV.	GALVANIZED
GRAN.	GRANITE
HDPE	HIGH DENSITY POLYETHYLENE
HYD	HYDRANT
INV.	INVERT
LF	LINEAR FEET
MAX.	MAXIMUM
MDOT	MAINE DEPARTMENT OF TRANSPORTATION
MIN.	MINIMUM
MON	MONUMENT
NET&T	NEW ENGLAND TELEPHONE & TELEGRAPH (FAIRPOINT COMMUNICATIONS)
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NR	NO REFUSAL
N.T.S.	NOT TO SCALE
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
±	PLUS OR MINUS
LLS	LICENSED LAND SURVEYOR
PROP.	PROPOSED
PT.	POINT
PVC	POLYVINYL CHLORIDE
R.O.W.	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
REINF.	REINFORCED
REQ'D	REQUIRED
S	SLOPE (FT./FT.)
S	SEWER
SD	STORM DRAIN
SMH	SEWER MANHOLE
SCH	SCHEDULE
STA.	STATION
TYP.	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VIT.	VITRIFIED CLAY
W	WEST
W	WATER
W/	WITH
W	WATERMAIN
WS	WATER SERVICE
WV	WATER VALVE

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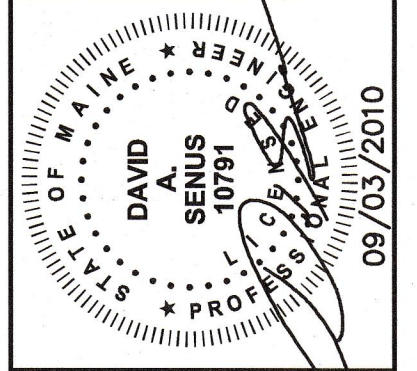


COMMITMENT & INTEGRITY DRIVE RESULTS

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N/A
DRAWING NAME:
203939.65-0001.DWG
FIELD BOOK USED:
N/A

REFERENCES:

DESIGNED BY:	doag018.dwg
DAS	file0011.dwg
DRAWN BY:	
IBC	
CHECKED BY:	
DAS	
SCALE:	AS NOTED
DATE:	09/03/10



SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

DOUGHERTY FIELD IMPROVEMENTS
GENERAL NOTES, LEGEND, AND ABBREVIATIONS

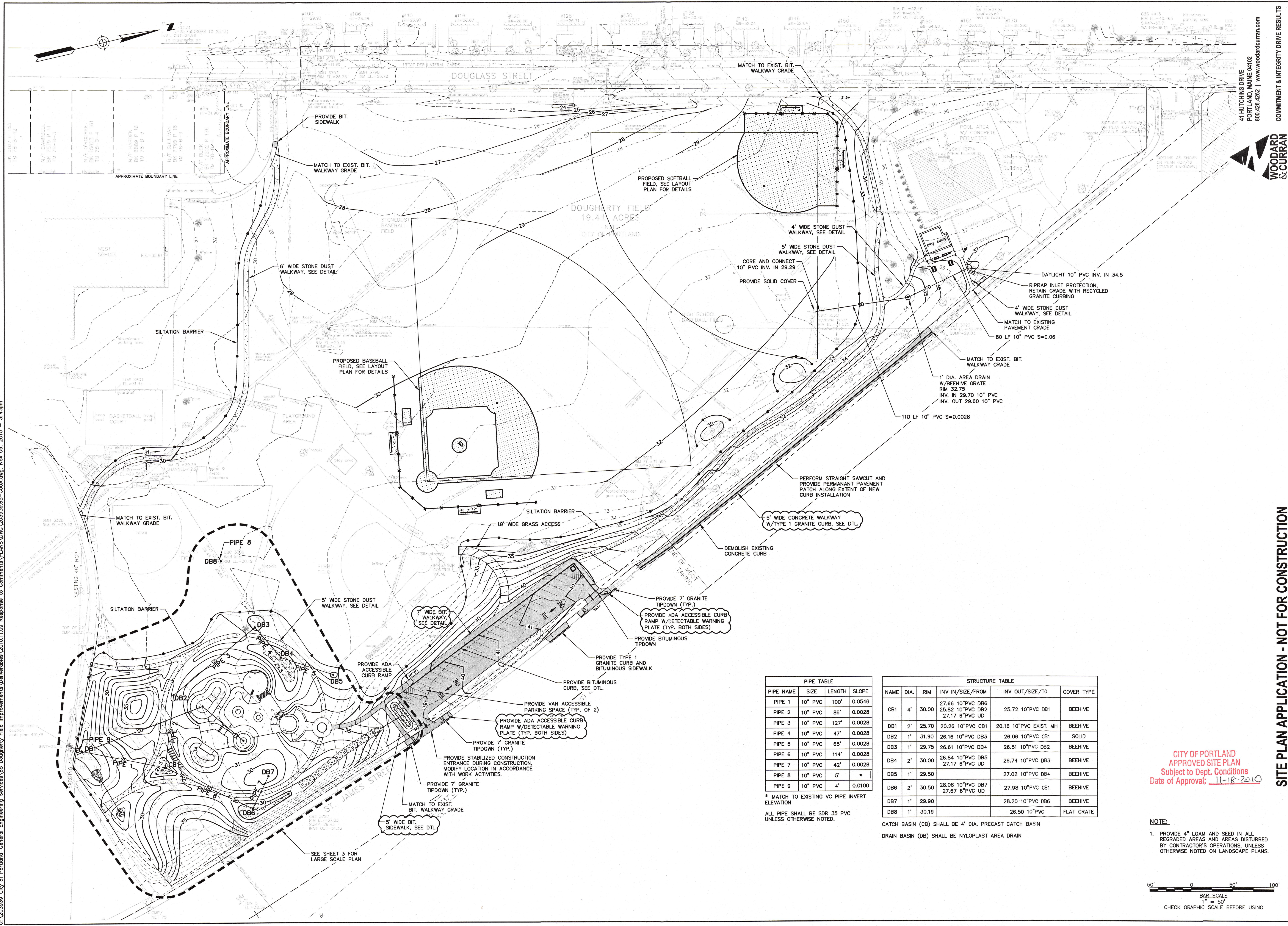
CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION



CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 11-18-2010

SHEET #
1 OF 9
PLAN NUMBER

C:\203939 City of Portland-General Engineering Services\65 Doughtery Field Improvements\Deliverables\2010.11.09 Response to Comments\PLANS\DWG\203939.65-CDDA.dwg, Nov. 09, 2010 - 3:43pm



PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 1	10" PVC	100'	0.0546
PIPE 2	10" PVC	86'	0.0028
PIPE 3	10" PVC	127'	0.0028
PIPE 4	10" PVC	47'	0.0028
PIPE 5	10" PVC	65'	0.0028
PIPE 6	10" PVC	114'	0.0028
PIPE 7	10" PVC	42'	0.0028
PIPE 8	10" PVC	5'	*
PIPE 9	10" PVC	4'	0.0100

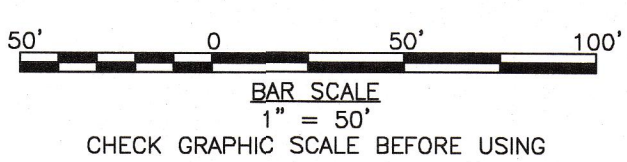
STRUCTURE TABLE

NAME	DIA.	RIM	INV IN/SIZE/FROM	INV OUT/SIZE/TO	COVER TYPE
CB1	4'	30.00	27.66 10" PVC DB6 25.82 10" PVC DB2 27.17 6" PVC UD	25.72 10" PVC DB1	BEEHIVE
DB1	2'	25.70	20.26 10" PVC CB1	20.16 10" PVC EXIST. MH	BEEHIVE
DB2	1'	31.90	26.16 10" PVC DB3	26.06 10" PVC CB1	SOLID
DB3	1'	29.75	26.61 10" PVC DB4	26.51 10" PVC DB2	BEEHIVE
DB4	2'	30.00	26.84 10" PVC DB5 27.17 6" PVC UD	26.74 10" PVC DB3	BEEHIVE
DB5	1'	29.50		27.02 10" PVC DB4	BEEHIVE
DB6	2'	30.50	28.08 10" PVC DB7 27.67 6" PVC UD	27.98 10" PVC CB1	BEEHIVE
DB7	1'	29.90		28.20 10" PVC DB6	BEEHIVE
DB8	1'	30.19		26.50 10" PVC	FLAT GRATE

* MATCH TO EXISTING VC PIPE INVERT ELEVATION
 ALL PIPE SHALL BE SDR 35 PVC UNLESS OTHERWISE NOTED.
 CATCH BASIN (CB) SHALL BE 4' DIA. PRECAST CATCH BASIN
 DRAIN BASIN (DB) SHALL BE NYLOPLAST AREA DRAIN

**CITY OF PORTLAND
 APPROVED SITE PLAN
 Subject to Dept. Conditions
 Date of Approval: 11-18-2010**

NOTE:
 1. PROVIDE 4" LOAM AND SEED IN ALL REGRADED AREAS AND AREAS DISTURBED BY CONTRACTOR'S OPERATIONS, UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS.



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SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

DOUGHTERY FIELD IMPROVEMENTS

GRADING AND UTILITY PLAN

CITY OF PORTLAND, MAINE
 PUBLIC SERVICES DEPARTMENT
 ENGINEERING SECTION

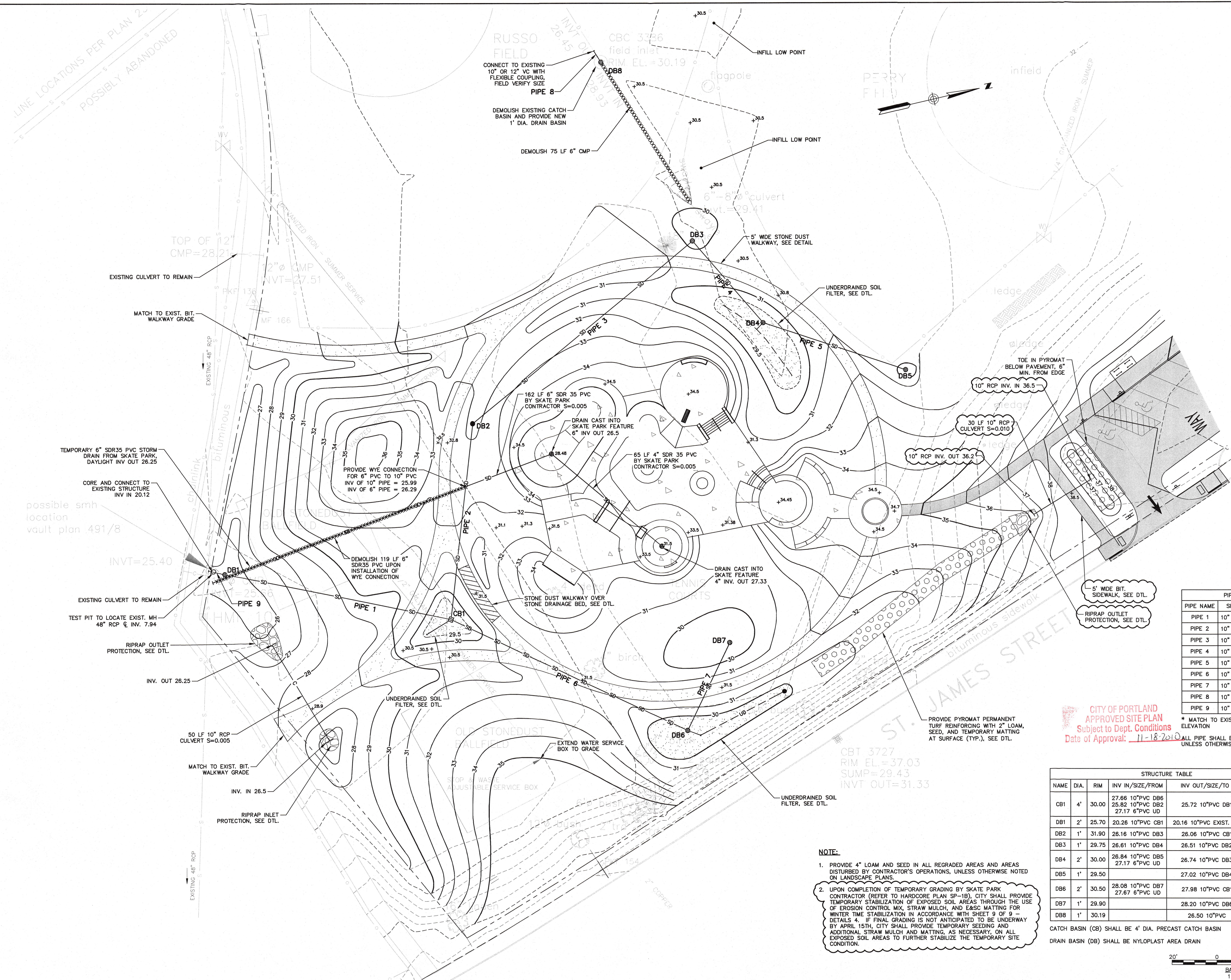
RESURGAM ENI
 CITY OF PORTLAND, MAINE

LDD PROJECT NAME: N/A
 DRAWING NAME: 203939.65-CDDA.DWG
 FIELD BOOK USED: N/A

DESIGNED BY: DAS
 DRAWN BY: ABC
 CHECKED BY: DAS
 SCALE: 1"=50'
 DATE: 11/09/10

REFERENCES:
 dougdb.dwg
 field01.dwg

SHEET # 2 OF 9
 PLAN NUMBER



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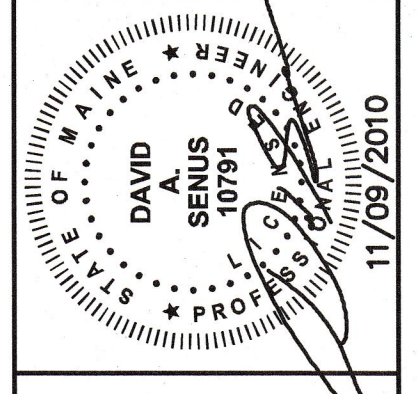
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FIELD BOOK USED:
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REFERENCES:

DESIGNED BY:	DAS
DRAWN BY:	ABC
CHECKED BY:	DAS
SCALE:	1"=50'
DATE:	11/09/2010



DOUGHERTY FIELD IMPROVEMENTS
 SKATE PARK AREA GRADING & DRAINAGE PLAN

CITY OF PORTLAND, MAINE
 PUBLIC SERVICES DEPARTMENT
 ENGINEERING SECTION



SHEET #
3 OF 9

PLAN NUMBER

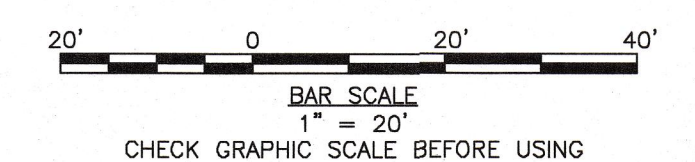
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CITY OF PORTLAND APPROVED SITE PLAN
 Subject to Dept. Conditions
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* MATCH TO EXISTING VC PIPE INVERT ELEVATION
 ALL PIPE SHALL BE SDR 35 PVC UNLESS OTHERWISE NOTED.

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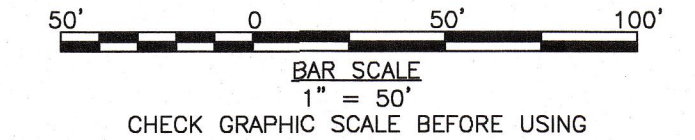
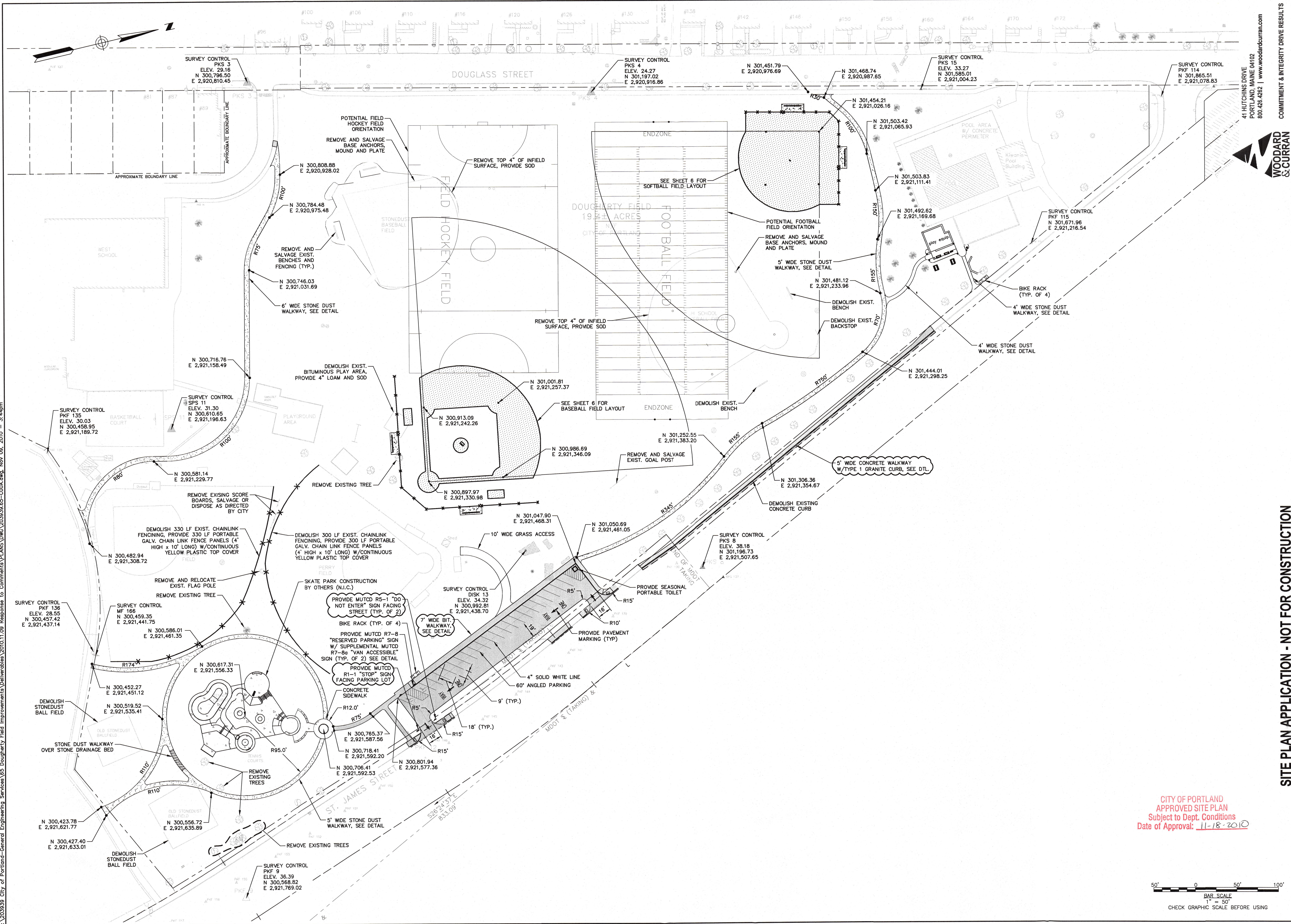
CATCH BASIN (CB) SHALL BE 4' DIA. PRECAST CATCH BASIN
 DRAIN BASIN (DB) SHALL BE NYLOPLAST AREA DRAIN



NOTE:

- PROVIDE 4" LOAM AND SEED IN ALL REGRADED AREAS AND AREAS DISTURBED BY CONTRACTOR'S OPERATIONS, UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS.
- UPON COMPLETION OF TEMPORARY GRADING BY SKATE PARK CONTRACTOR (REFER TO HARDWARE PLAN SP-18), CITY SHALL PROVIDE TEMPORARY STABILIZATION OF EXPOSED SOIL AREAS THROUGH THE USE OF EROSION CONTROL MIX, STRAW MULCH, AND EASC MATTING FOR WINTER TIME STABILIZATION IN ACCORDANCE WITH SHEET 9 OF 9 - DETAILS 4. IF FINAL GRADING IS NOT ANTICIPATED TO BE UNDERWAY BY APRIL 15TH, CITY SHALL PROVIDE TEMPORARY SEEDING AND ADDITIONAL STRAW MULCH AND MATTING, AS NECESSARY, ON ALL EXPOSED SOIL AREAS TO FURTHER STABILIZE THE TEMPORARY SITE CONDITION.

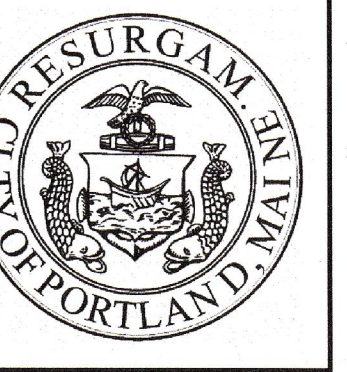
City of Portland - General Engineering Services \65 Doughtery Field Improvements\2010.11.09 Response to Comments\PLANS\DWG\203939-65-CODA.dwg, Nov 09, 2010 - 3:44pm



CITY OF PORTLAND
APPROVED SITE PLAN
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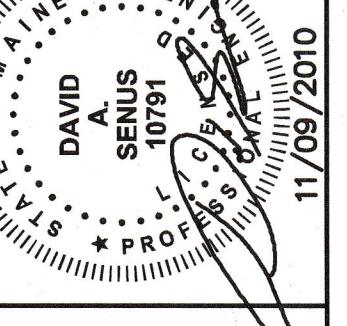
SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION



SHEET #
4 OF 9
PLAN NUMBER

DOUGHTERY FIELD
IMPROVEMENTS
LAYOUT PLAN



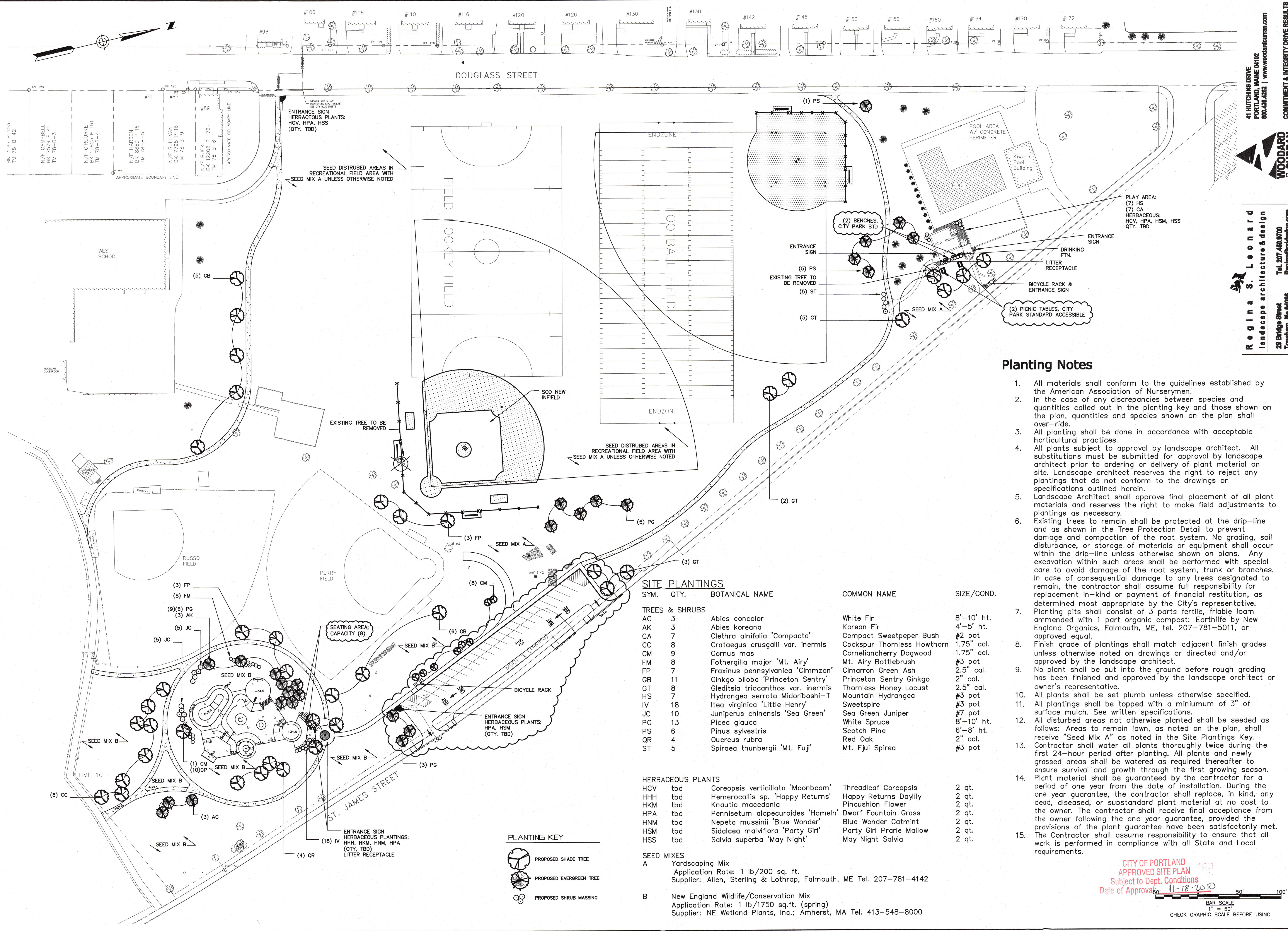
DESIGNED BY: DAS
DRAWN BY: ABC
CHECKED BY: DAS
SCALE: 1"=50'
DATE: 11/09/10

REFERENCES:
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field01.dwg

LDD PROJECT NAME: N/A
DRAWING NAME: 203939-65-CODA.DWG
FIELD BOOK USED: N/A

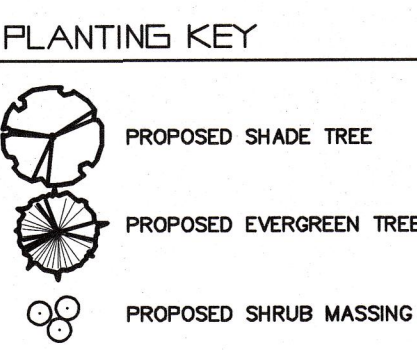
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\\Portland\Projects\203939 city of Portland-General Engineering Services\wp\65 Dougherty Field Phase 1\Drawings\203939.65-LOA.dwg, Oct. 13, 2010 - 9:07am



SITE PLANTINGS

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/COND.
TREES & SHRUBS				
AC	3	Abies concolor	White Fir	8'-10' ht.
AK	3	Abies koreana	Korean Fir	4'-5' ht.
CA	7	Clethra alnifolia 'Compacta'	Compact Sweetpeper Bush	#2 pot
CC	8	Crataegus crusgalli var. inermis	Cockspur Thornless Hawthorn	1.75" cal.
CM	9	Cornus mas	Corneliancherry Dogwood	1.75" cal.
FM	8	Fothergilla major 'Mt. Airy'	Mt. Airy Bottlebrush	#3 pot
FP	7	Fraxinus pennsylvanica 'Cimmmzan'	Cimarron Green Ash	2.5" cal.
GB	11	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	2" cal.
GT	8	Gleditsia triacanthos var. inermis	Thornless Honey Locust	2.5" cal.
HS	7	Hydrangea serrata Midoriboshi-T	Mountain Hydrangea	#3 pot
IV	18	Itea virginica 'Little Henry'	Sweetspire	#3 pot
JC	10	Juniperus chinensis 'Sea Green'	Sea Green Juniper	#7 pot
PG	13	Picea glauca	White Spruce	8'-10' ht.
PS	6	Pinus sylvestris	Scotch Pine	6'-8' ht.
QR	4	Quercus rubra	Red Oak	2" cal.
ST	5	Spiraea thunbergii 'Mt. Fuji'	Mt. Fuji Spirea	#3 pot
HERBACEOUS PLANTS				
HCV	tbd	Coreopsis verticillata 'Moonbeam'	Threadleaf Coreopsis	2 qt.
HHH	tbd	Hemerocallis sp. 'Happy Returns'	Happy Returns Daylily	2 qt.
HKM	tbd	Knautia macedonia	Pincushion Flower	2 qt.
HPA	tbd	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	2 qt.
HNM	tbd	Nepeta mussinii 'Blue Wonder'	Blue Wonder Catmint	2 qt.
HSM	tbd	Sidalcea malviflora 'Party Girl'	Party Girl Prairie Mallow	2 qt.
HSS	tbd	Salvia superba 'May Night'	May Night Salvia	2 qt.
SEED MIXES				
A	Yardscaping Mix Application Rate: 1 lb/200 sq. ft. Supplier: Allen, Sterling & Lothrop, Falmouth, ME Tel. 207-781-4142			
B	New England Wildlife/Conservation Mix Application Rate: 1 lb/1750 sq.ft. (spring) Supplier: NE Wetland Plants, Inc.; Amherst, MA Tel. 413-548-8000			



Planting Notes

- All materials shall conform to the guidelines established by the American Association of Nurserymen.
- In the case of any discrepancies between species and quantities called out in the planting key and those shown on the plan, quantities and species shown on the plan shall over-ride.
- All planting shall be done in accordance with acceptable horticultural practices.
- All plants subject to approval by landscape architect. All substitutions must be submitted for approval by landscape architect prior to ordering or delivery of plant material on site. Landscape architect reserves the right to reject any plantings that do not conform to the drawings or specifications outlined herein.
- Landscape Architect shall approve final placement of all plant materials and reserves the right to make field adjustments to plantings as necessary.
- Existing trees to remain shall be protected at the drip-line and as shown in the Tree Protection Detail to prevent damage and compaction of the root system. No grading, soil disturbance, or storage of materials or equipment shall occur within the drip-line unless otherwise shown on plans. Any excavation within such areas shall be performed with special care to avoid damage of the root system, trunk or branches. In case of consequential damage to any trees designated to remain, the contractor shall assume full responsibility for replacement in-kind or payment of financial restitution, as determined most appropriate by the City's representative.
- Planting pits shall consist of 3 parts fertile, friable loam amended with 1 part organic compost: Earthlife by New England Organics, Falmouth, ME, tel. 207-781-5011, or approved equal.
- Finish grade of plantings shall match adjacent finish grades unless otherwise noted on drawings or directed and/or approved by the landscape architect.
- No plant shall be put into the ground before rough grading has been finished and approved by the landscape architect or owner's representative.
- All plants shall be set plumb unless otherwise specified.
- All plantings shall be topped with a minimum of 3" of surface mulch. See written specifications.
- All disturbed areas not otherwise planted shall be seeded as follows: Areas to remain lawn, as noted on the plan, shall receive "Seed Mix A" as noted in the Site Plantings Key. Contractor shall water all plants thoroughly twice during the first 24-hour period after planting. All plants and newly grassed areas shall be watered as required thereafter to ensure survival and growth through the first growing season. Plant material shall be guaranteed by the contractor for a period of one year from the date of installation. During the one year guarantee, the contractor shall replace, in kind, any dead, diseased, or substandard plant material at no cost to the owner. The contractor shall receive final acceptance from the owner following the one year guarantee, provided the provisions of the plant guarantee have been satisfactorily met.
- The Contractor shall assume responsibility to ensure that all work is performed in compliance with all State and Local requirements.

CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 11-18-2010

1" = 50'
50' 0" 50' 0" 50' 0"

BAR SCALE
CHECK GRAPHIC SCALE BEFORE USING

41 HUTCHINS DRIVE
PORTLAND, MAINE 04102
800.426.6262 | www.woodardcurran.com

WOODARD & CURRAN

Regina S. Leonard
landscape architecture & design
Tel. 207.450.9700
Regina@rsdesign.com

29 Bridge Street
Topsham, Me 04088

COMMITMENT & INTEGRITY DRIVE RESULTS

DESIGNED BY: RSL
DRAWN BY: RSL
CHECKED BY: RSL
SCALE: 1"=50'
DATE: 10/12/10

REFERENCES:
dough015.dwg
field011.dwg

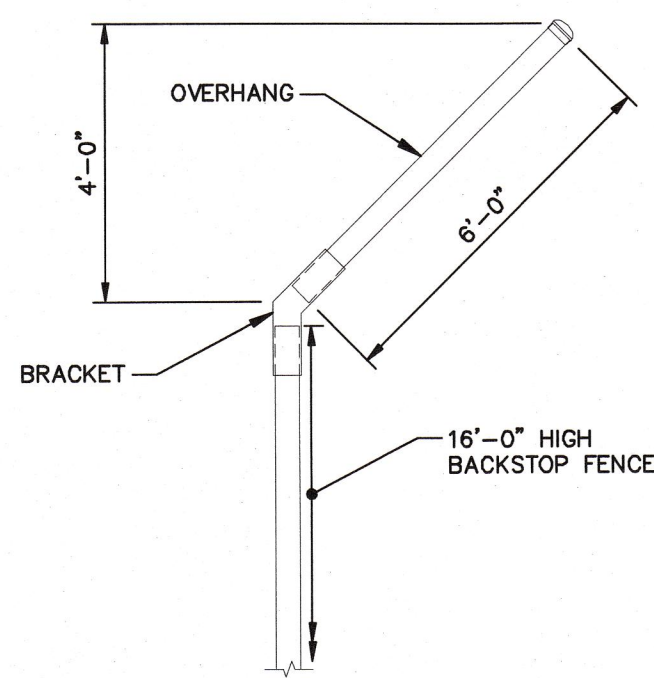
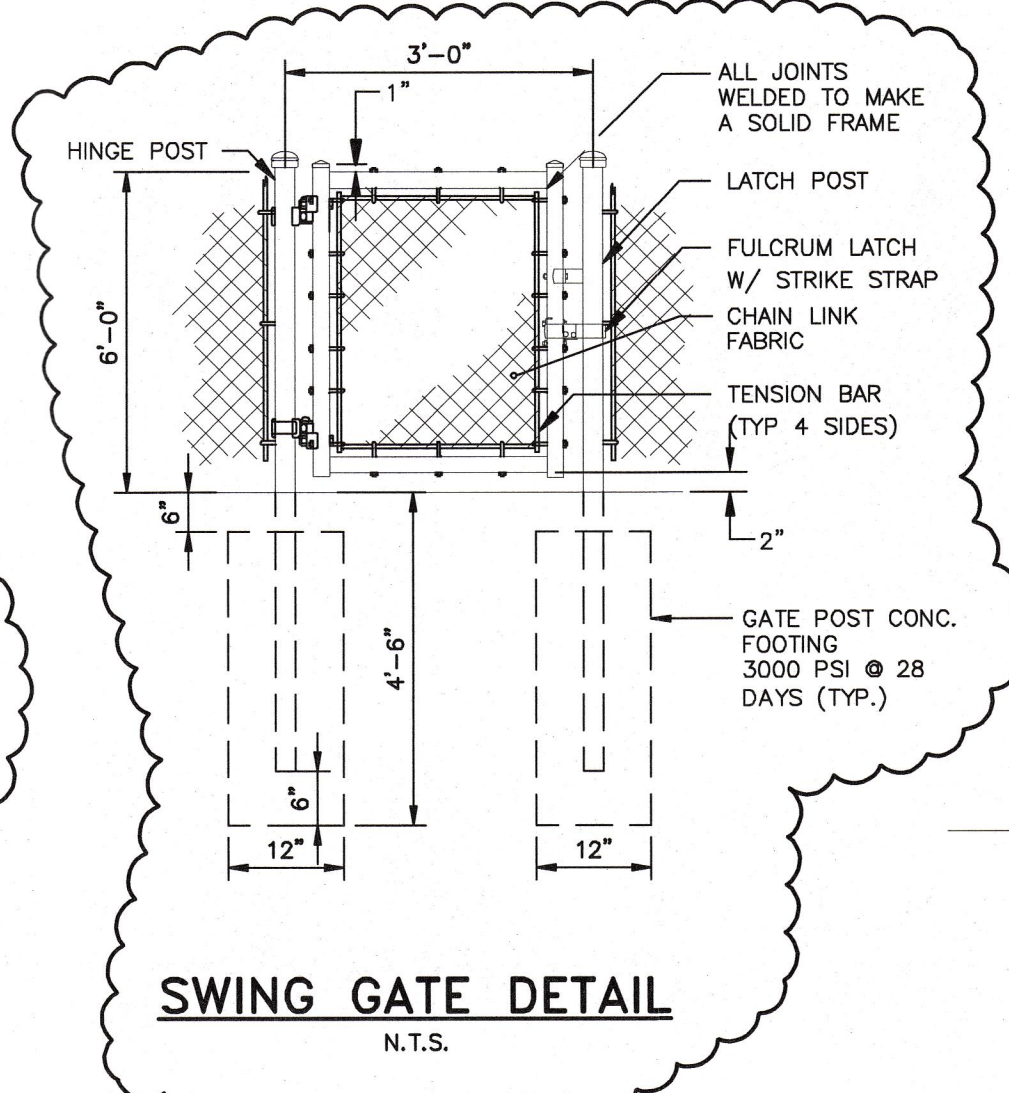
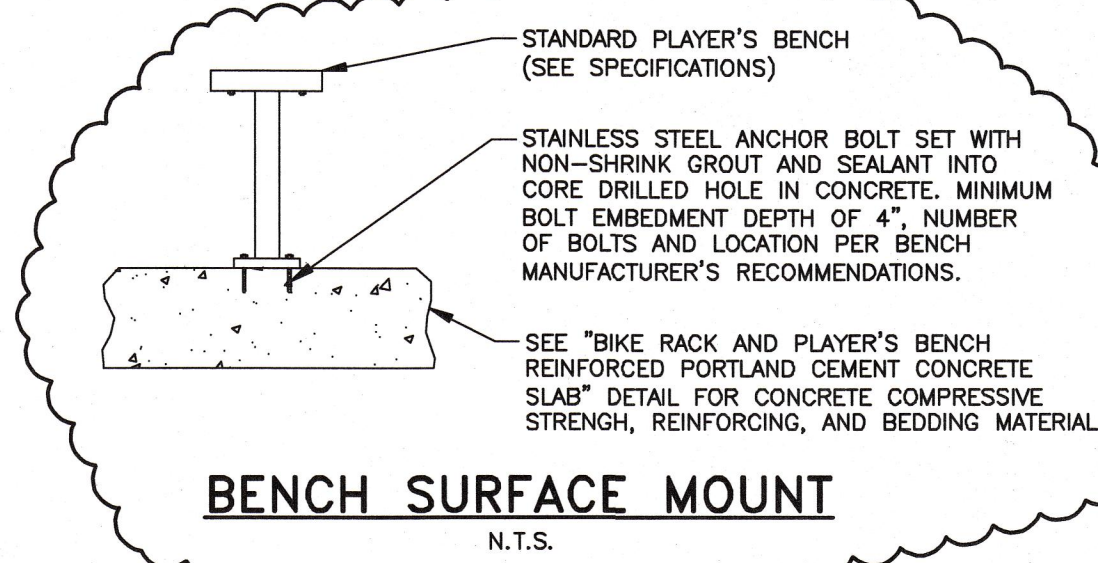
DOUGHERTY FIELD IMPROVEMENTS
LANDSCAPE PLAN

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

YILDIZ RESURGAM ENL M
CITY OF PORTLAND, MAINE

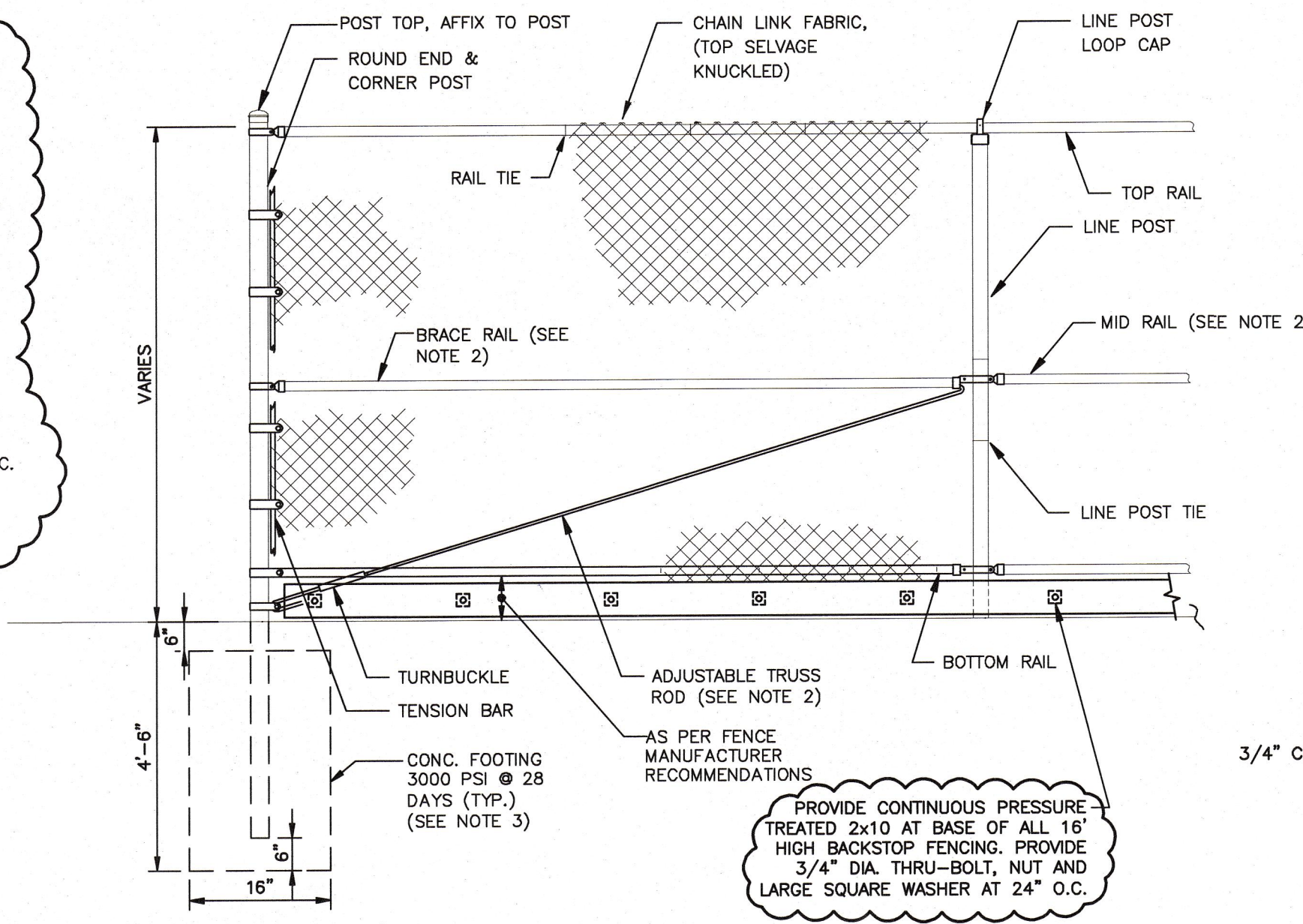
SHEET # 5 OF 9
PLAN NUMBER

LDD PROJECT NAME: N/A
DRAWING NAME: 203939.65-LOA.DWG
FIELD BOOK USED: N/A



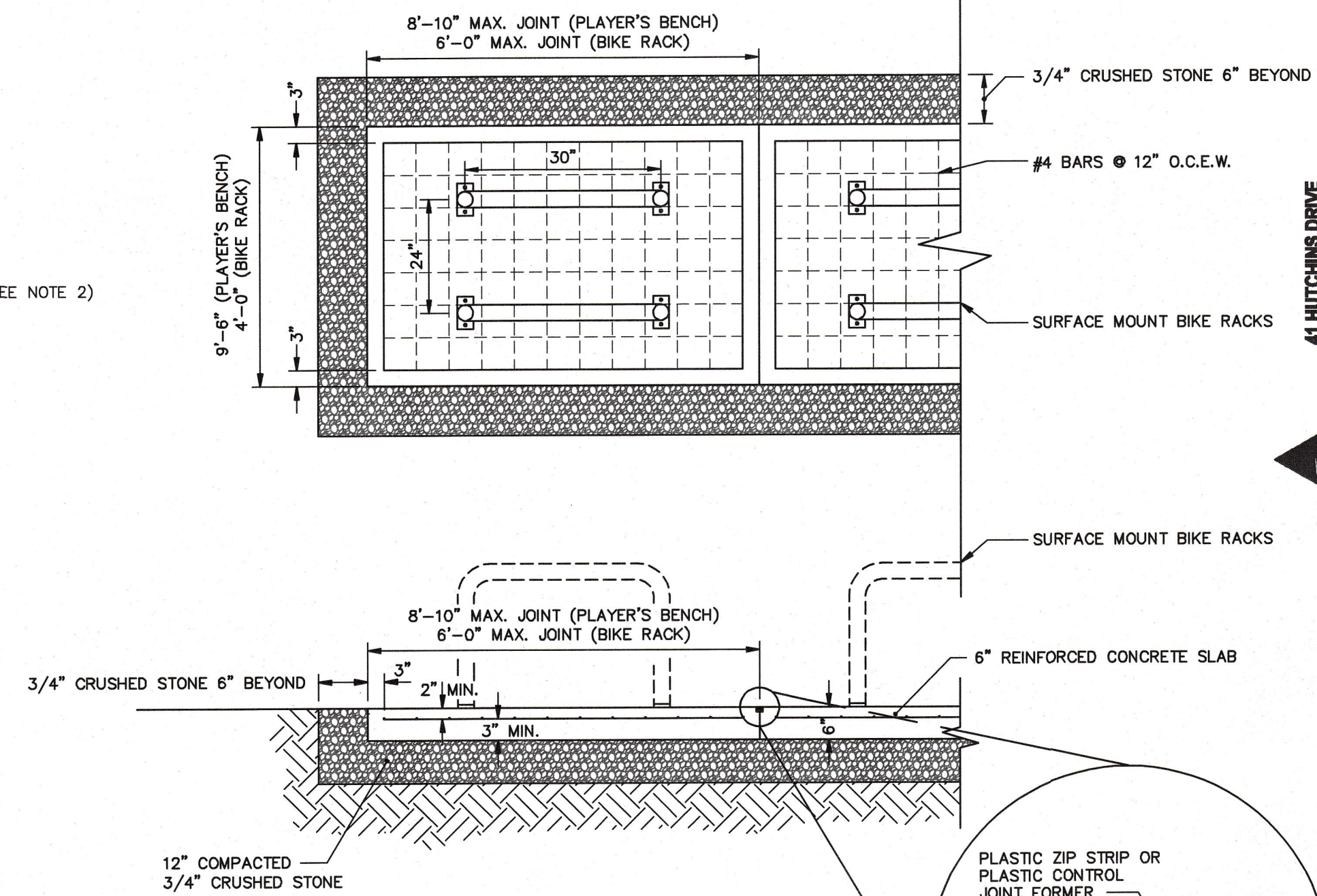
- NOTE:**
- BRACKET SHALL BE DESIGNED BY FENCE MANUFACTURER TO ADEQUATELY SUPPORT LOAD OF OVERHANG FENCE. ADDITIONAL BRACING OR BRACKETS SHALL BE PROVIDED AS RECOMMENDED BY FENCE MANUFACTURER.
 - SEAL OR CAP OVERHANG POSTS AND ENSURE BRACKET IS WATERTIGHT TO PREVENT WATER FROM ENTERING AND FREEZING IN POST ASSEMBLY.

BACKSTOP OVERHANG DETAIL
N.T.S.



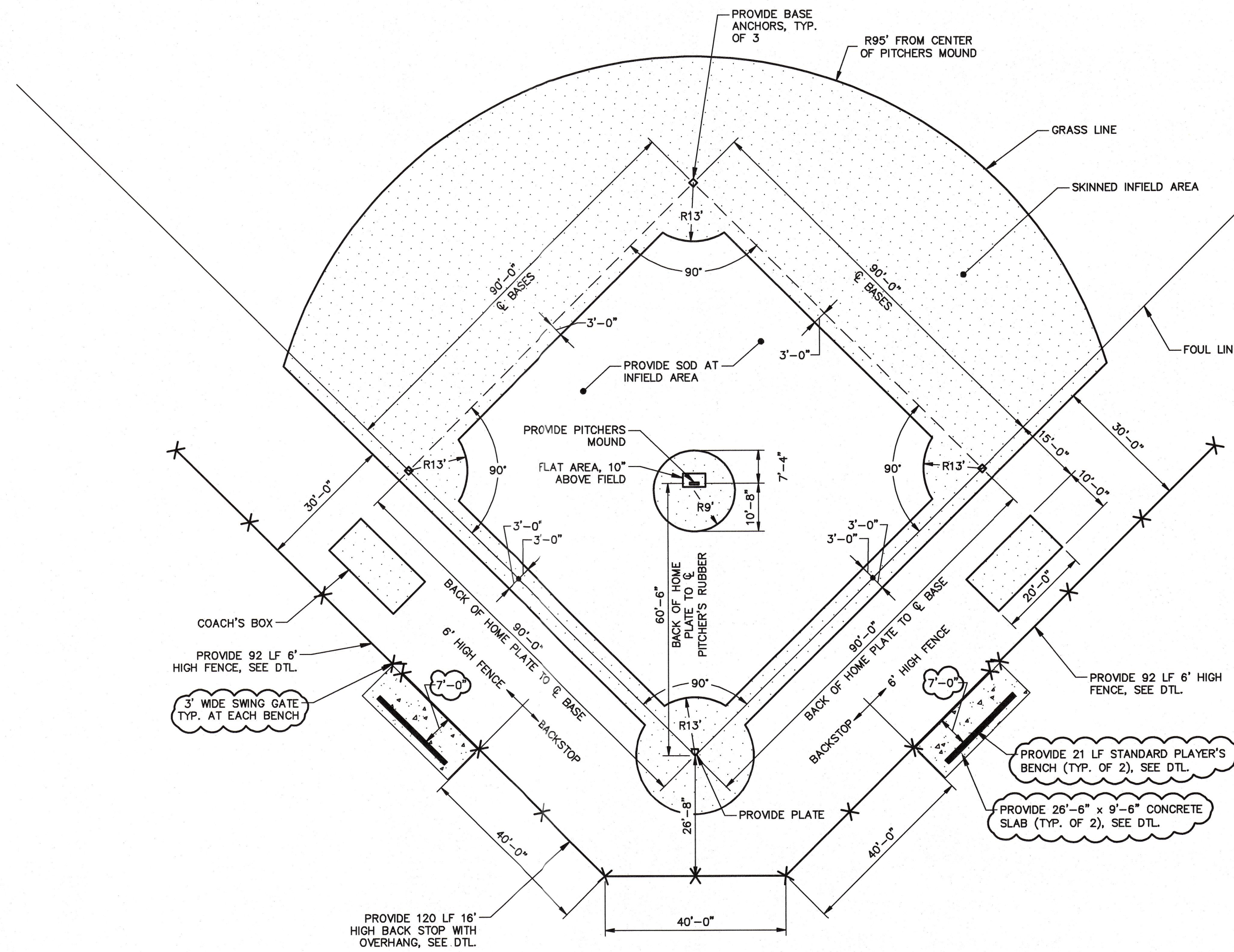
- NOTES:**
- ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH BLACK POLYVINYL COATING, SEE PROJECT SPECIFICATIONS.
 - PROVIDE BRACE RAIL, ADJUSTABLE TRUSS ROD, AND BOTTOM RAIL ON ALL END AND CORNER FENCE SECTIONS. PROVIDE TOP, MID, AND BOTTOM RAIL ON ALL 16' HIGH FENCE SECTIONS. PROVIDE TOP AND BOTTOM RAIL ON ALL 6' HIGH FENCE SECTIONS.
 - PROVIDE CONCRETE FOOTINGS FOR ALL 16' HIGH FENCE POSTS. PROVIDE CONCRETE FOOTINGS AT END AND CORNER POSTS (CHANGE IN DIRECTION) FOR ALL 6' HIGH FENCE SECTIONS.
 - SEE SITE LAYOUT PLANS FOR ALL FENCE HEIGHTS.
 - CONCRETE FOOTINGS SHALL BE POURED WITH VERTICAL SIDEWALLS.
 - LINE POST TIES AND RAIL TIES SHALL BE OF SUFFICIENT LENGTH TO ALLOW EACH END OF TIE TO BE KNUCKLED BACK AND TWISTED TWICE AROUND ITSELF.

CHAIN LINK FENCE
N.T.S.

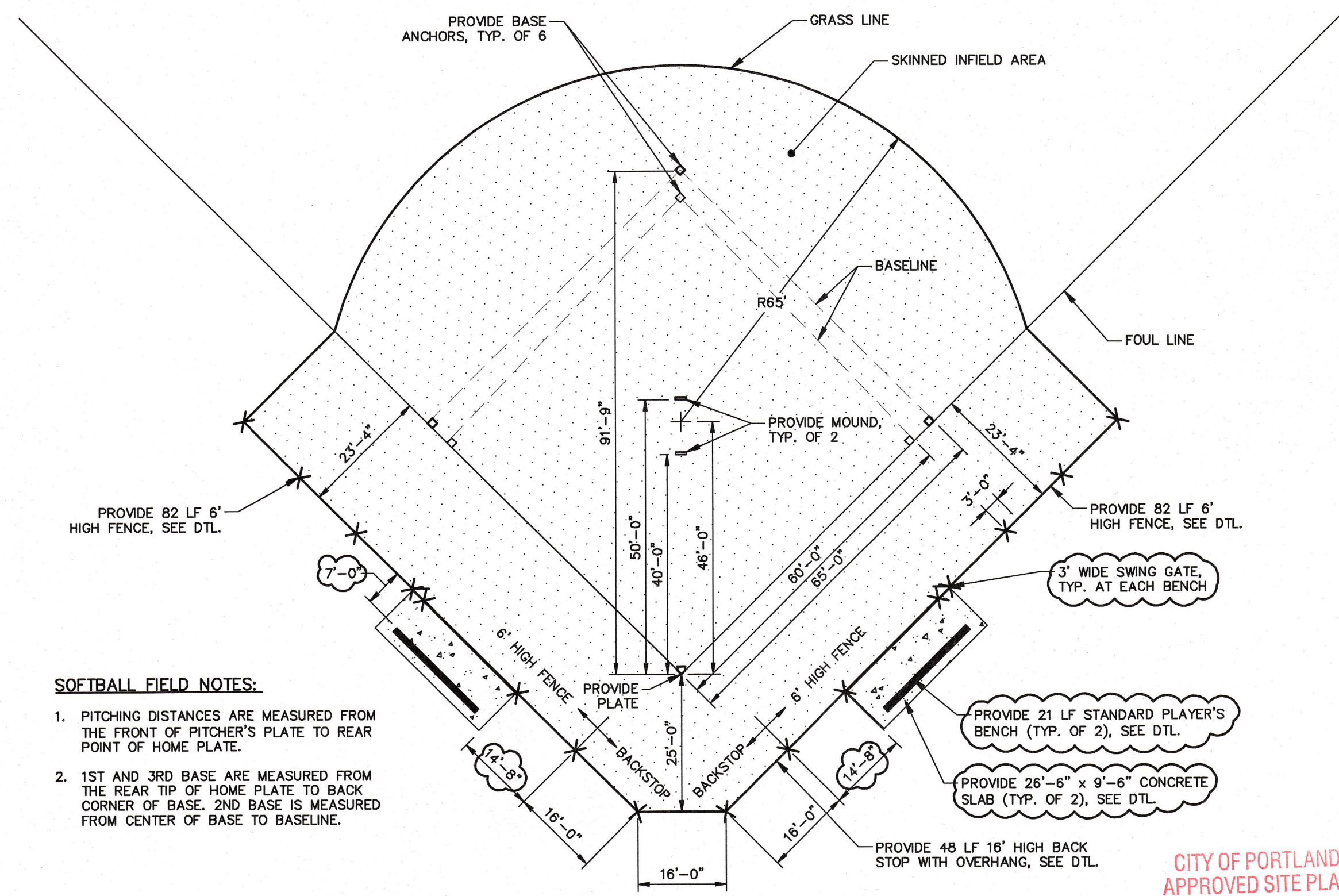


- NOTES:**
- CONCRETE SHALL BE MIN. 4,000 PSI 28-DAY COMPRESSIVE STRENGTH PORTLAND CEMENT CONCRETE, 5% AIR ENTRAINMENT.
 - CONCRETE SURFACE SHALL BE BROOM FINISH.
 - CONTROL JOINTS SHALL BE CONSTRUCTED WITH A ZIP STRIP PLACED TRANSVERSELY AT 6' MAX SPAN.

BIKE RACK AND PLAYER'S BENCH REINFORCED PORTLAND CEMENT CONCRETE SLAB
N.T.S.



BASEBALL FIELD LAYOUT PLAN
SCALE: 1" = 20'



- SOFTBALL FIELD NOTES:**
- PITCHING DISTANCES ARE MEASURED FROM THE FRONT OF PITCHER'S PLATE TO REAR POINT OF HOME PLATE.
 - 1ST AND 3RD BASE ARE MEASURED FROM THE REAR TIP OF HOME PLATE TO BACK CORNER OF BASE. 2ND BASE IS MEASURED FROM CENTER OF BASE TO BASELINE.

SOFTBALL FIELD LAYOUT PLAN
SCALE: 1" = 20'

CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 11-18-2010

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COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME: N/A
DRAWING NAME: 203939.65-DOOA.DWG
FIELD BOOK USED: N/A

REFERENCES:
DESIGNED BY: DAS
DRAWN BY: ABC
CHECKED BY: DAS
SCALE: 1"=50'
DATE: 10/12/10

SEAL:
DAVID BENUS
REGISTERED PROFESSIONAL ENGINEER
NO. 10001
EXPIRES 10/12/2010

SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

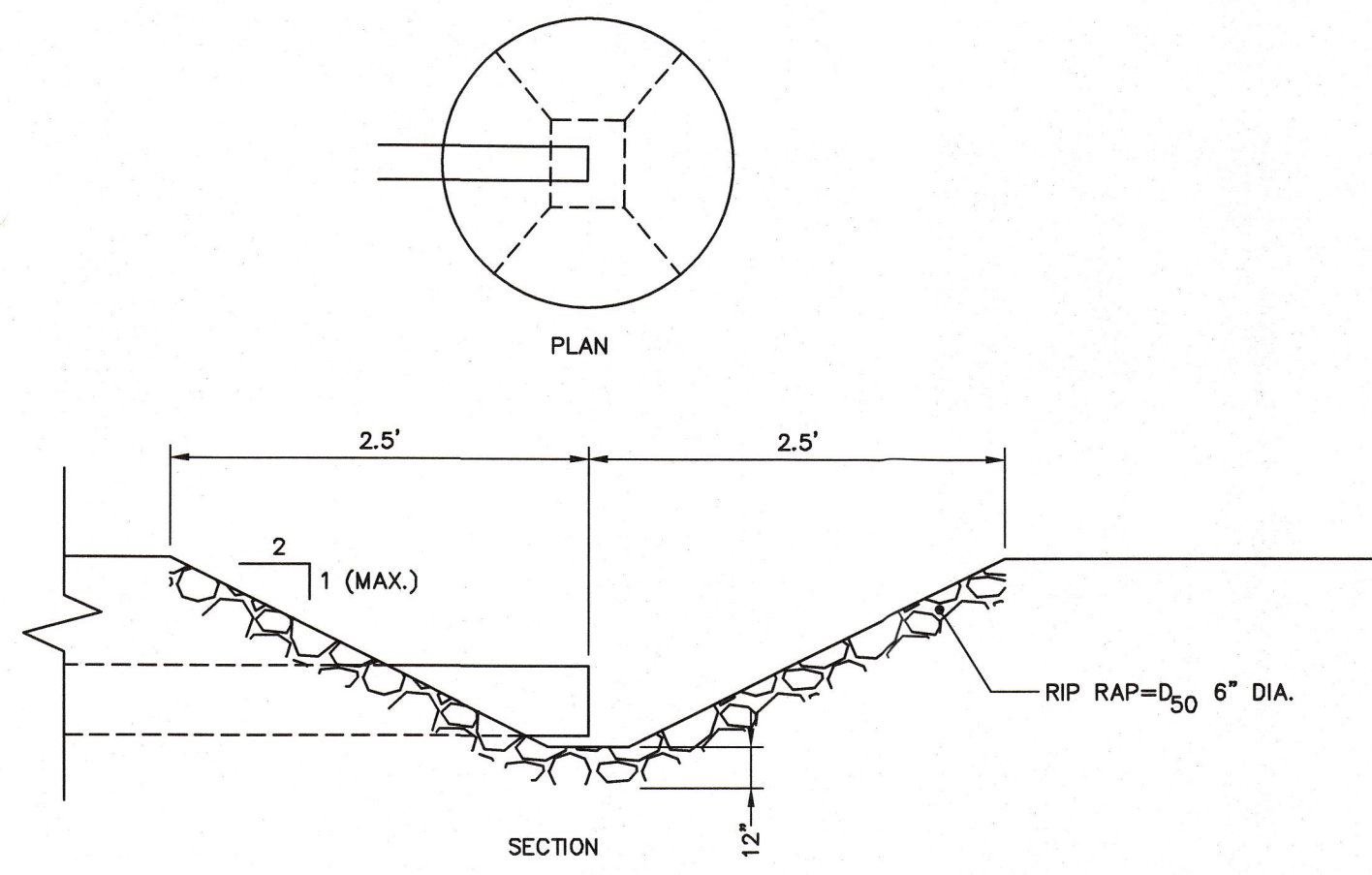
DOUGHERTY FIELD IMPROVEMENTS

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

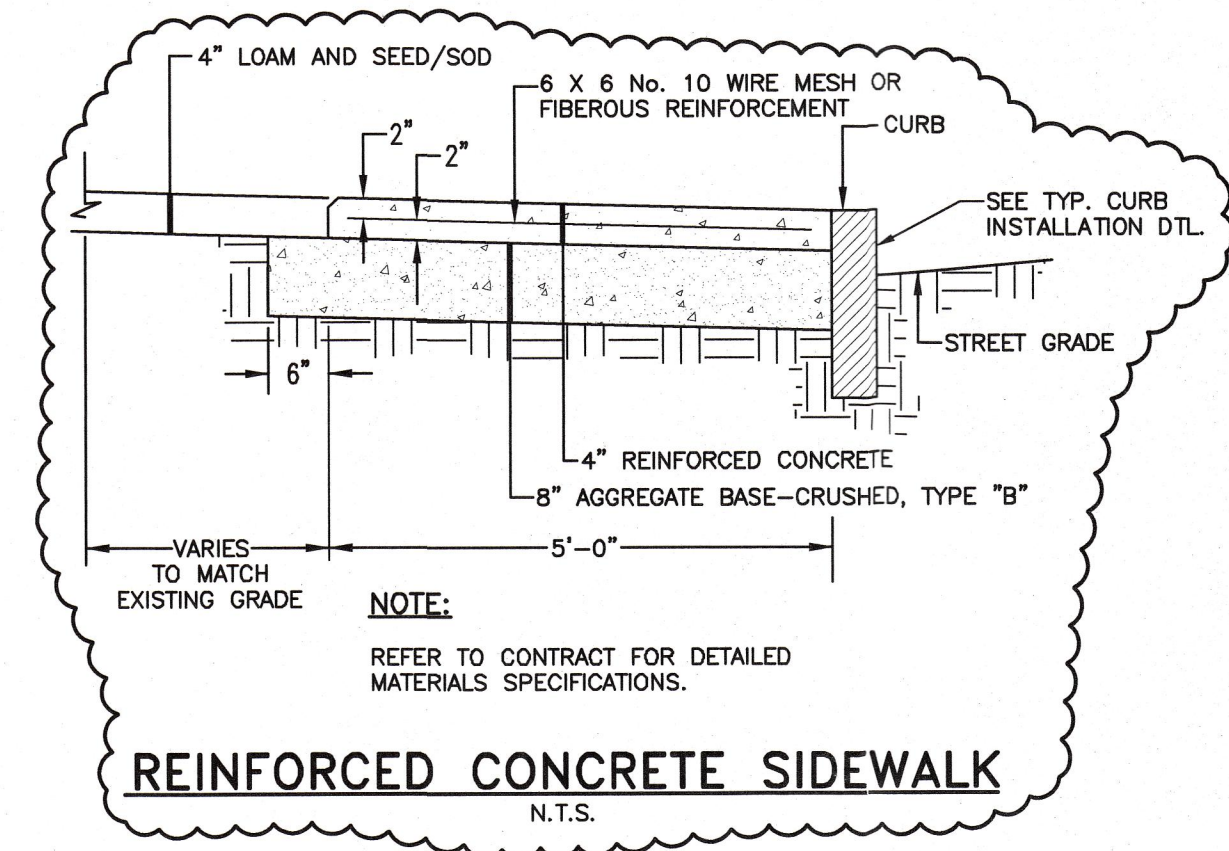
SHEET # 6 OF 9
PLAN NUMBER

DETAILS - 1

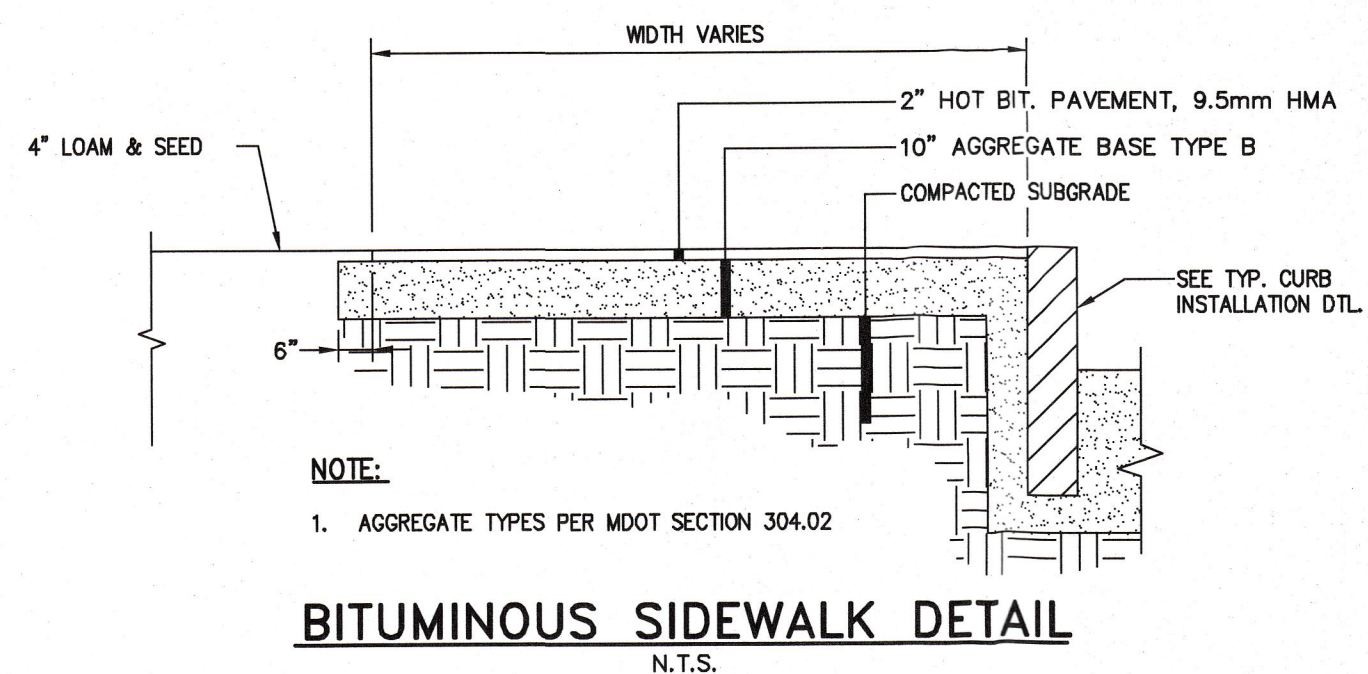
\\Portland\Projects\203939. City of Portland-General Engineering Services\wp\65 Dougherty Field Phase 1\Drawings\203939.65-DOOA.dwg, Oct 13, 2010 - 9:22am



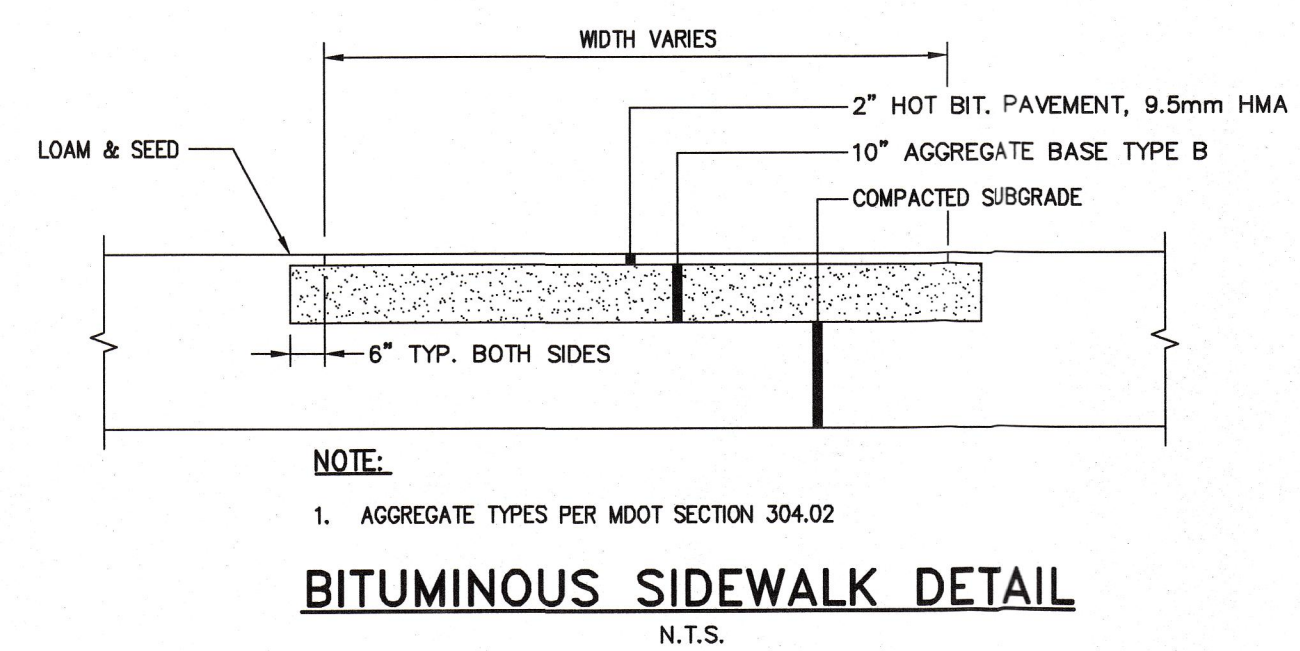
INLET RIPRAP PROTECTION
N.T.S.



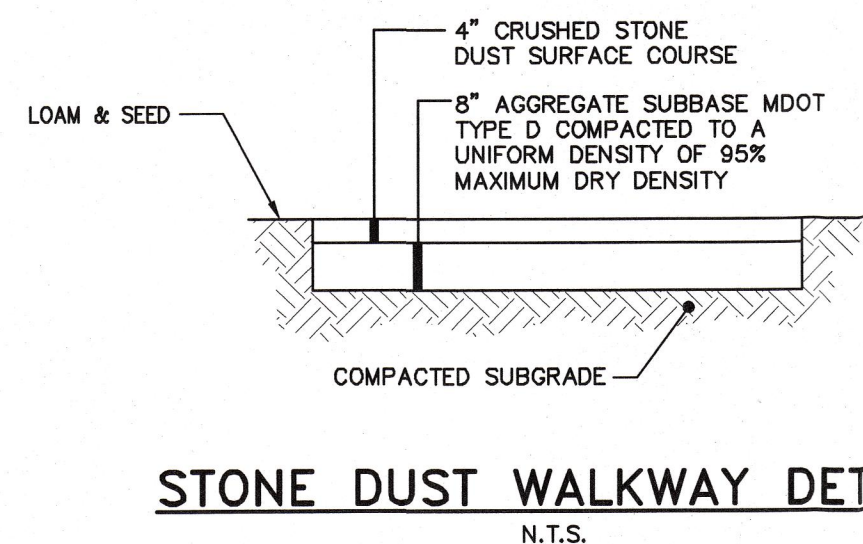
REINFORCED CONCRETE SIDEWALK
N.T.S.



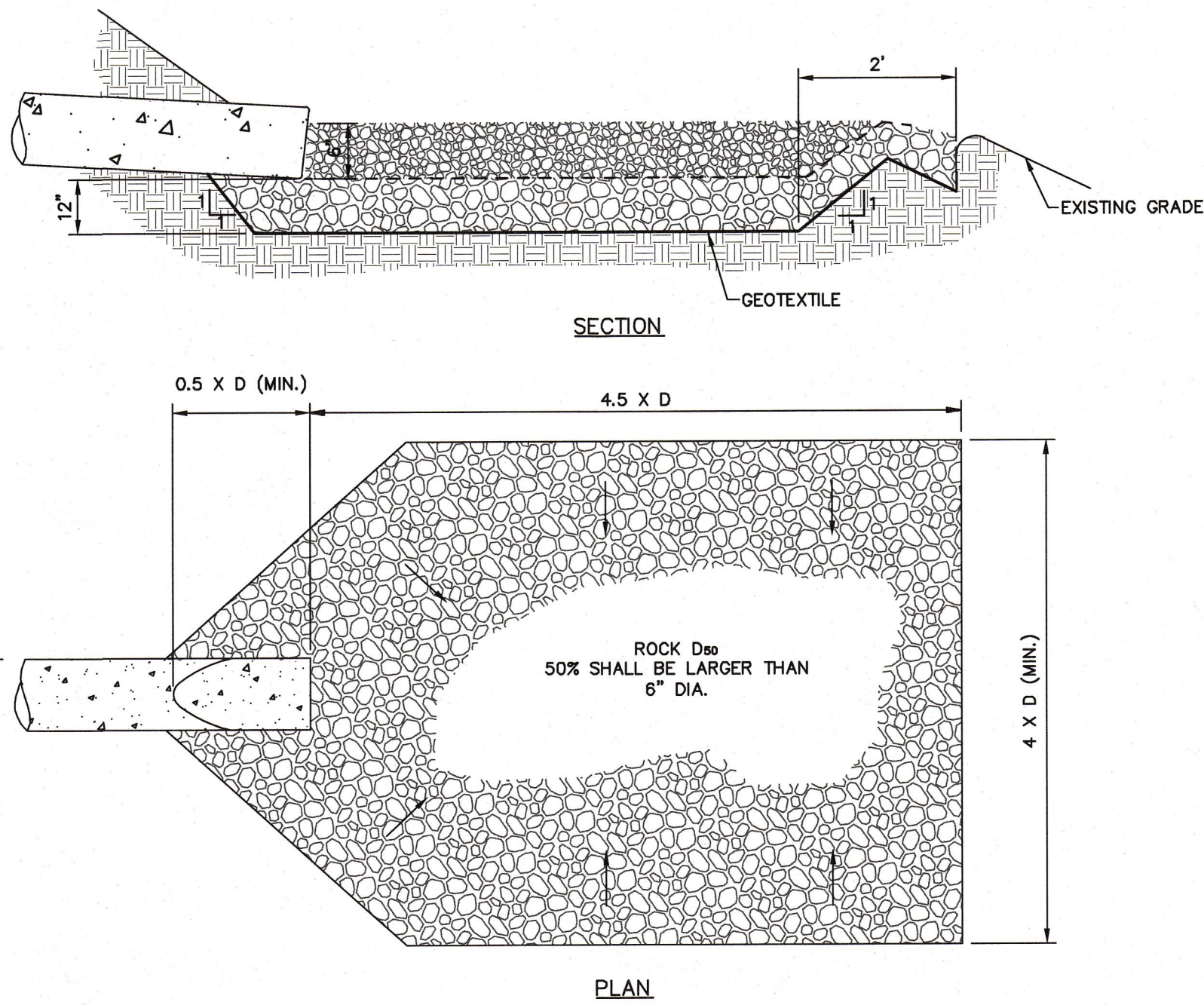
BITUMINOUS SIDEWALK DETAIL
N.T.S.



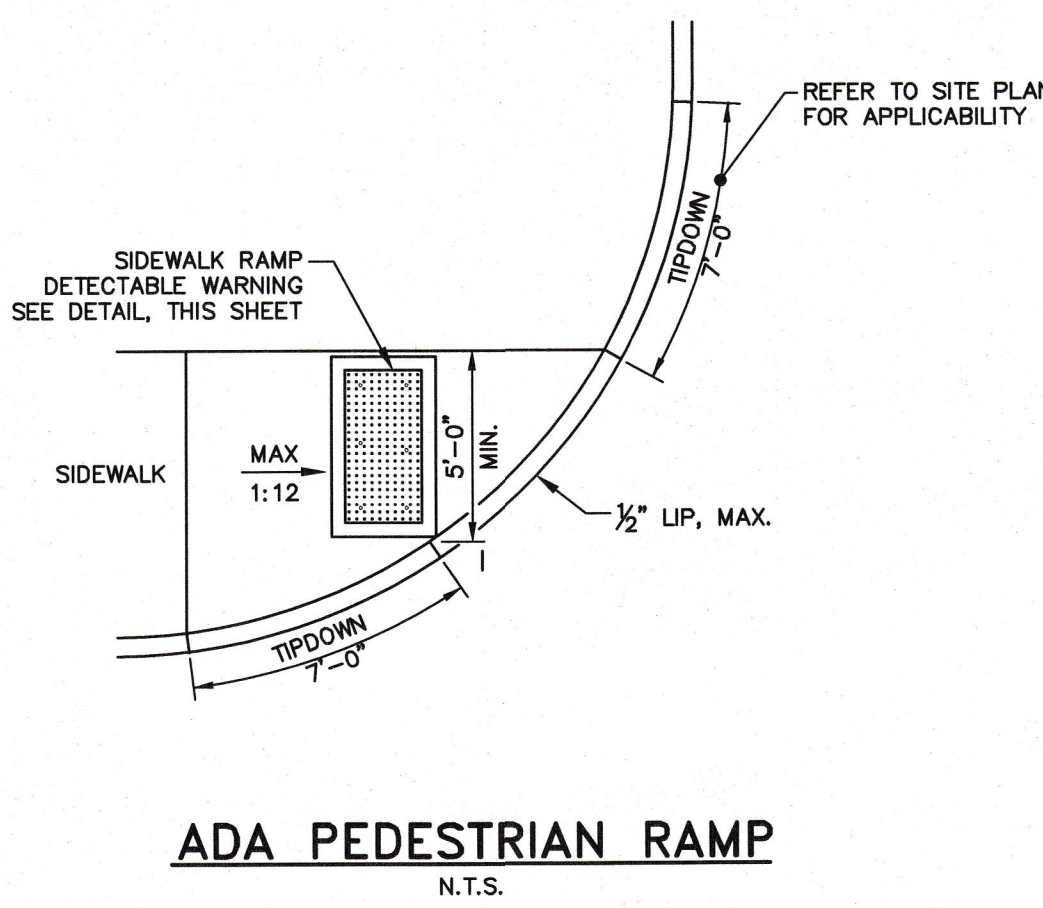
BITUMINOUS SIDEWALK DETAIL
N.T.S.



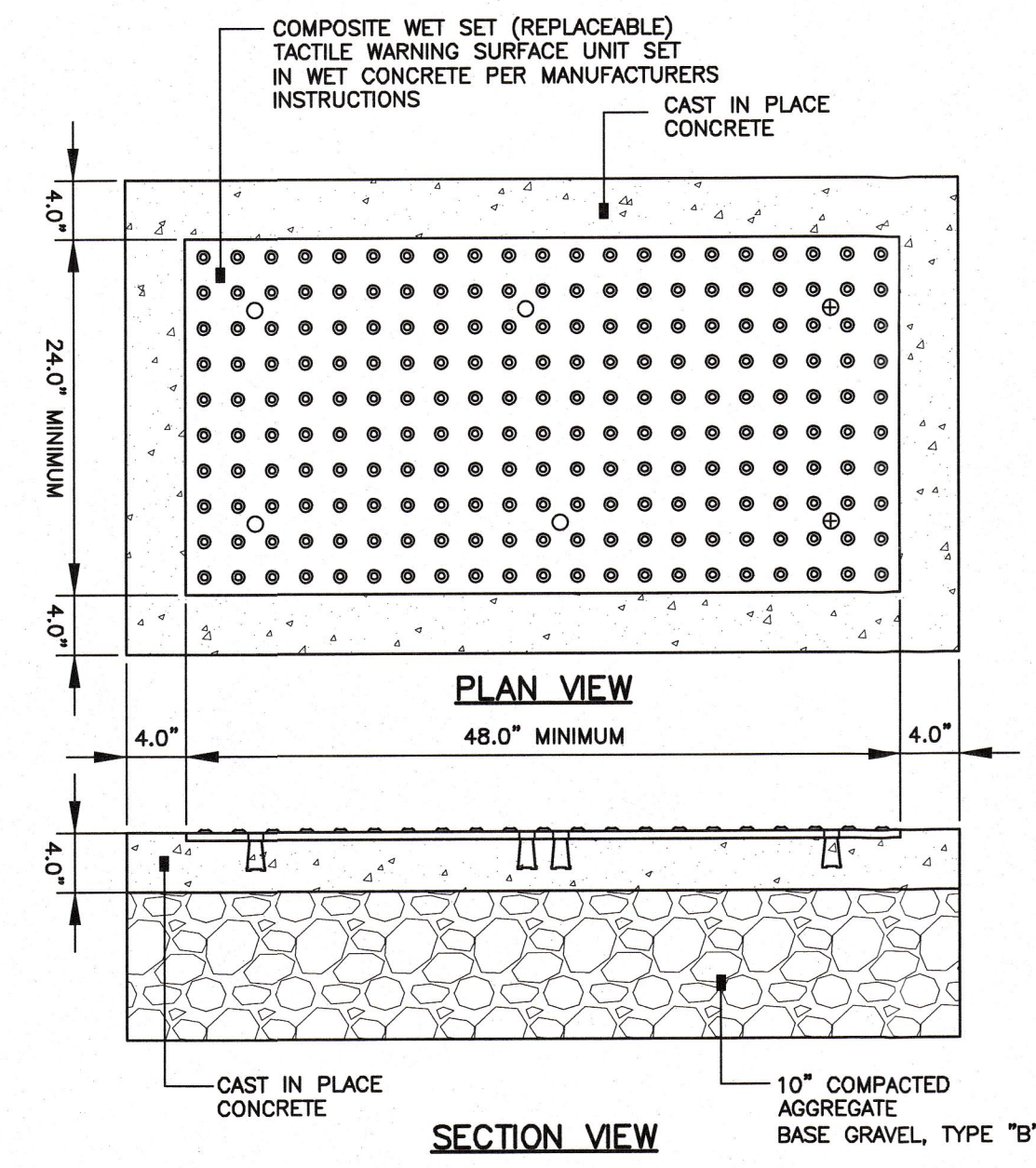
STONE DUST WALKWAY DETAIL
N.T.S.



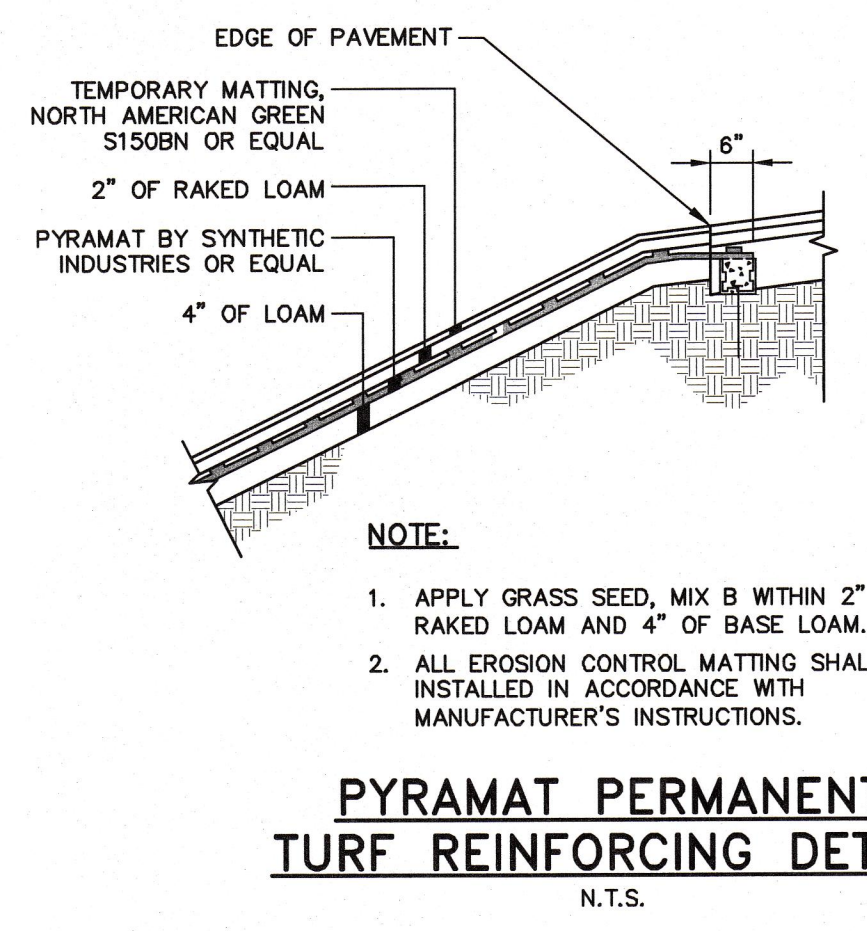
RIPRAP OUTLET
N.T.S.



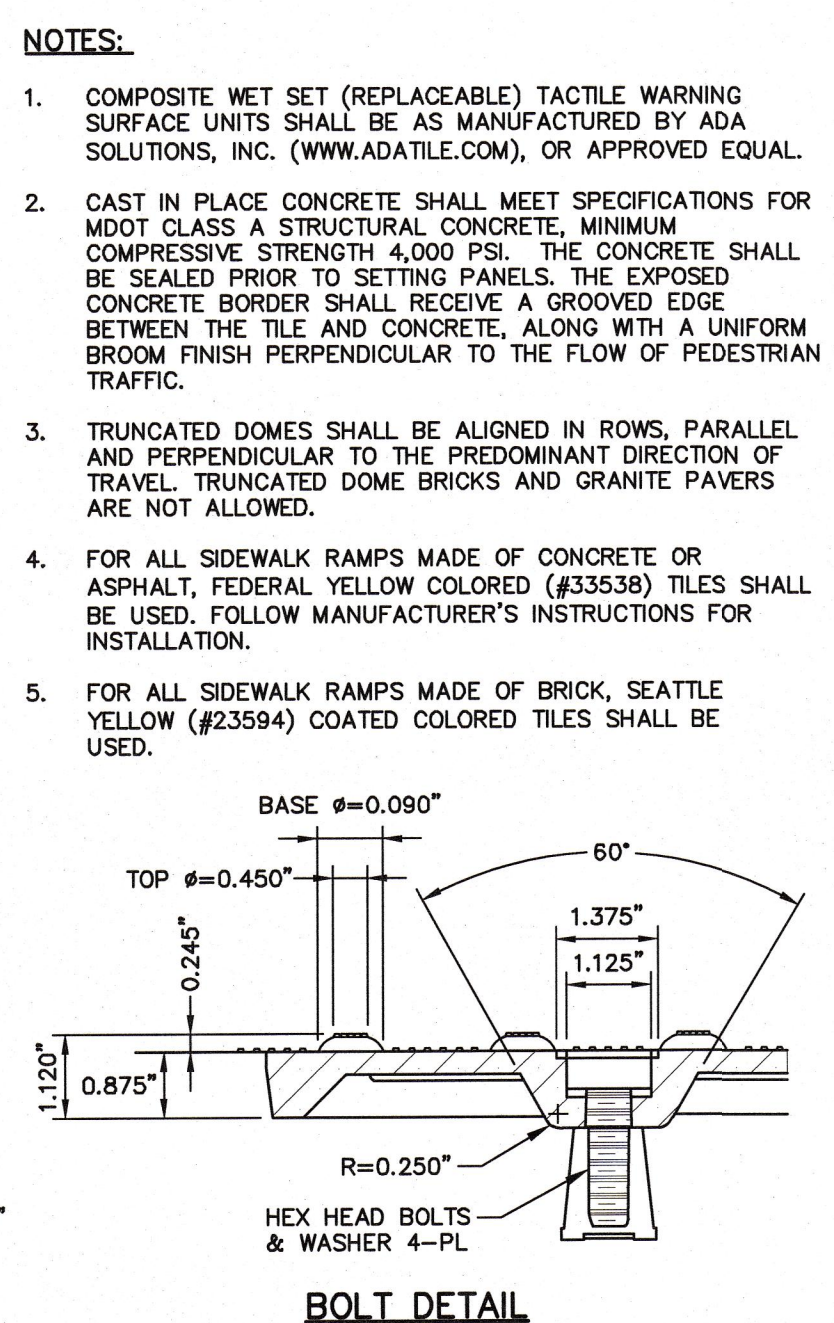
ADA PEDESTRIAN RAMP
N.T.S.



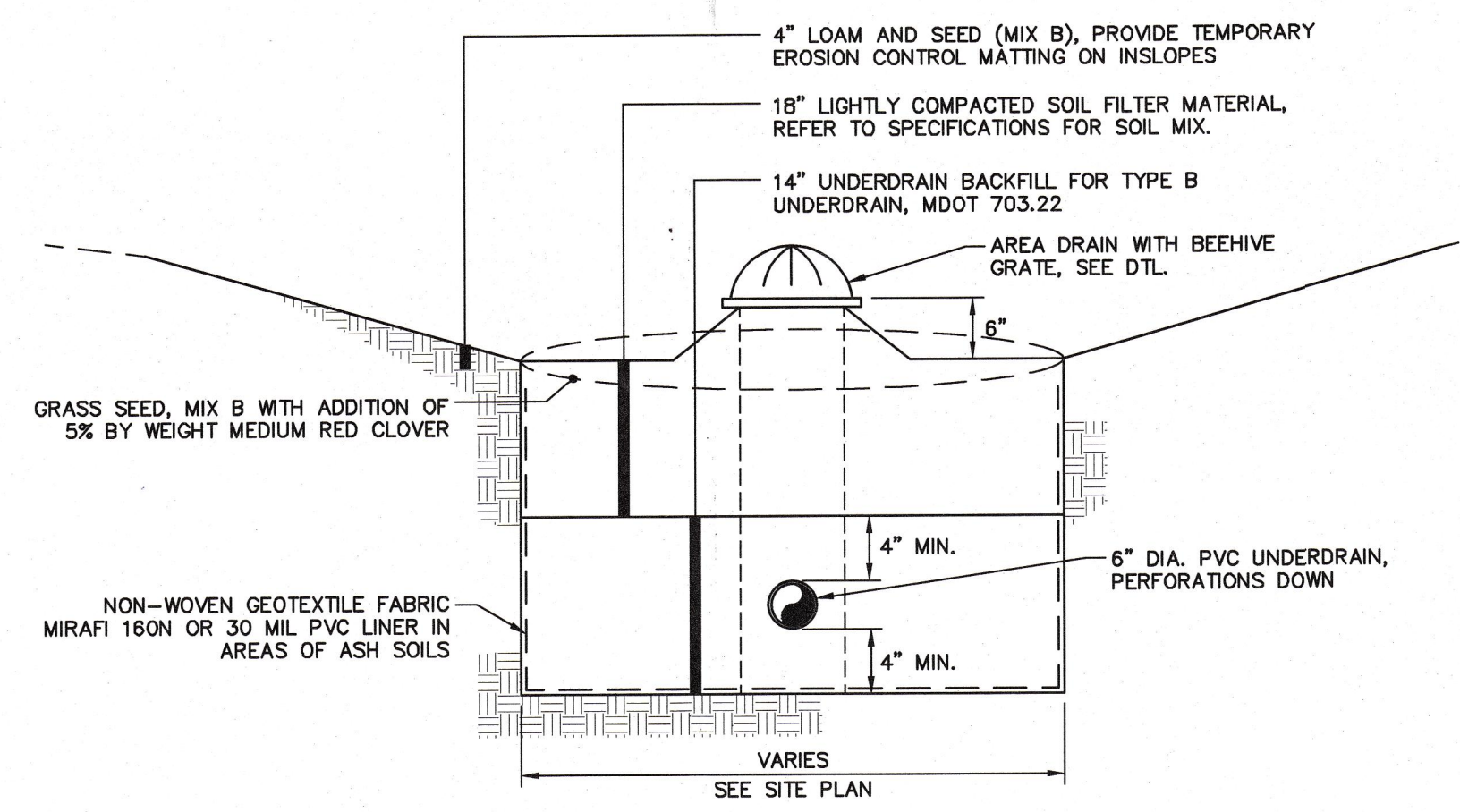
SIDEWALK RAMP DETECTABLE WARNING
N.T.S.



PYRAMAT PERMANENT TURF REINFORCING DETAIL
N.T.S.



BOLT DETAIL



TYPICAL UNDERDRAIN SOIL FILTER DETAIL
N.T.S.

LOAM NOTES:

THE CONTRACTOR SHALL SUBMIT LOAM TESTING RESULTS IN CONFORMANCE WITH SECTION 615, MAINE DOT STANDARD SPECIFICATIONS.

SOIL FILTER NOTES:

THE SOIL FILTER MEDIA MUST NOT BE INSTALLED UNTIL THE ENTIRE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURES UNLESS THE RUNOFF IS DIVERTED AROUND THE FILTER. THE AREA THAT DRAINS TO THE SOIL FILTER SHALL BE KEPT STABLE, AVOIDING EROSION AND DEPOSITION OF SEDIMENTS INTO THE STORMWATER MANAGEMENT SYSTEM. ABSOLUTELY NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN SUFFICIENTLY STABILIZED.

ADDITIONAL SURFACE LOAM MAY BE UTILIZED TO PROMOTE GRASS SEED GERMINATION. LOAM SHALL CONSIST OF NO MORE THAN 1/4 DEPTH OF NATIVE SANDY LOAM LIGHTLY RAKED INTO THE SOIL FILTER SURFACE.

SUBMITTALS:

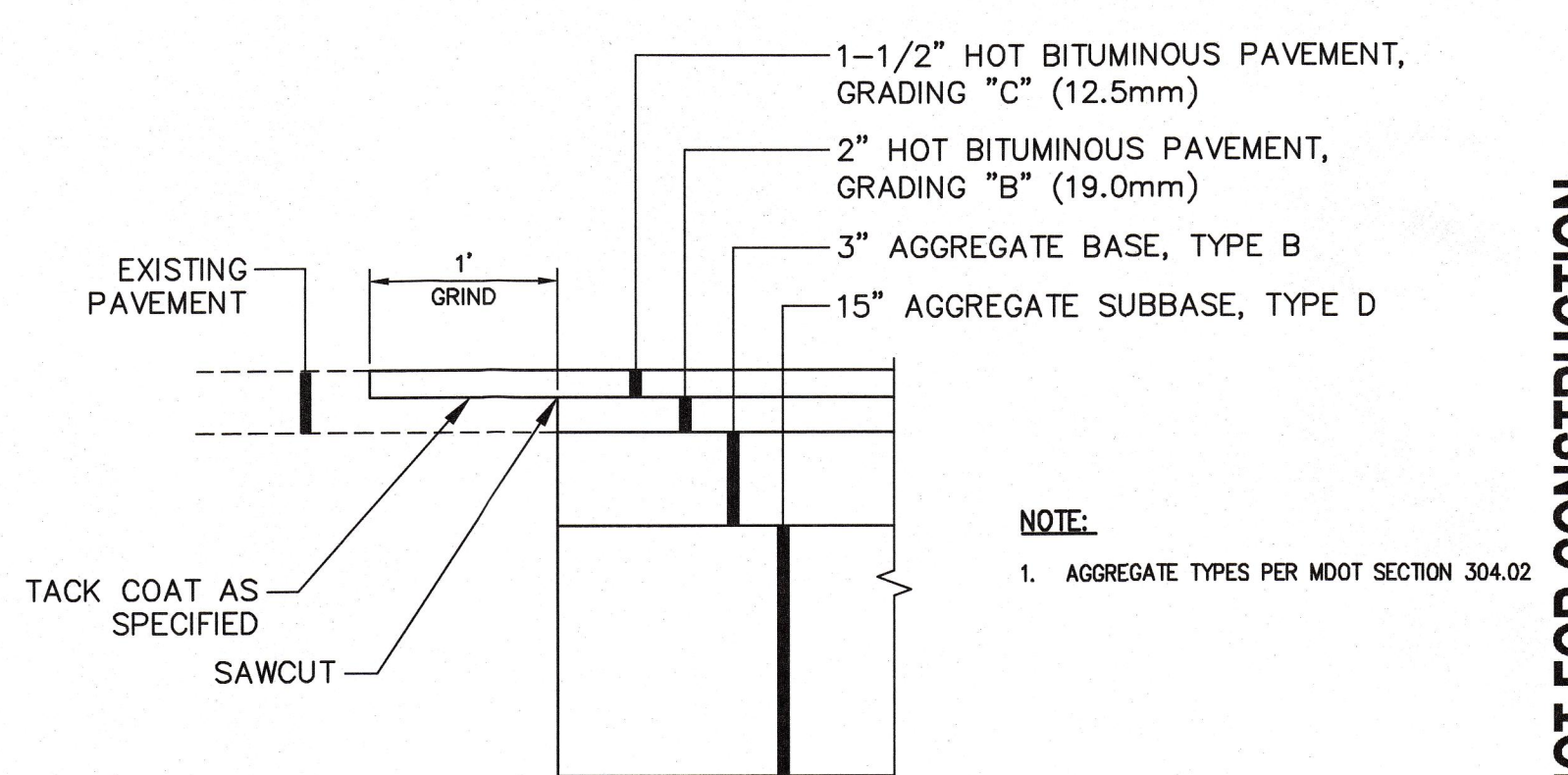
THE FOLLOWING MATERIAL SHALL BE SUBMITTED:

- SOIL FILTER MEDIA
- LOAMY SAND

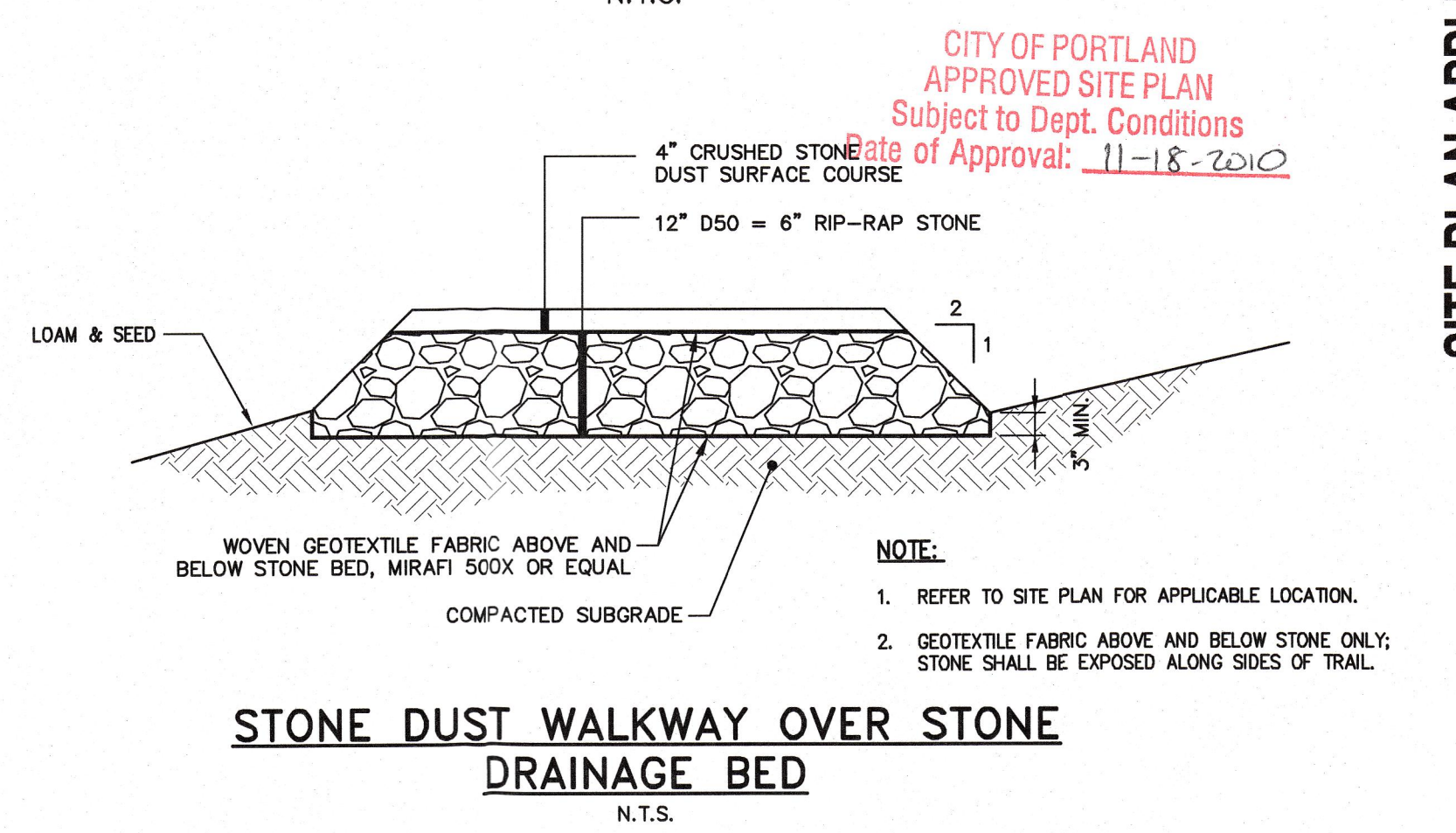
SUBMIT 5 LBS. SAMPLE OF EACH TYPE OF MATERIAL IN AIR TIGHT CONTAINER TO PROJECT ENGINEER.

CONTRACTOR SHALL PERFORM A SIEVE ANALYSIS IN CONFORMANCE WITH ASTM C136 - STANDARD TEST METHOD FOR SIEVE ANALYSIS AND ASTM C117 - STANDARD TEST METHOD FOR MATERIALS FINER THAN 75µM ON EACH TYPE OF MATERIAL AND SUBMIT RESULTS TO PROJECT ENGINEER.

CONTRACTOR SHALL PERFORM A SOIL TEXTURAL ANALYSIS FOR LOAMY SAND IN CONFORMANCE WITH ASTM D422 - STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS OF SOILS AND SUBMIT RESULTS TO PROJECT ENGINEER.



PARKING LOT PAVEMENT CONSTRUCTION DETAIL
N.T.S.



STONE DUST WALKWAY OVER STONE DRAINAGE BED
N.T.S.

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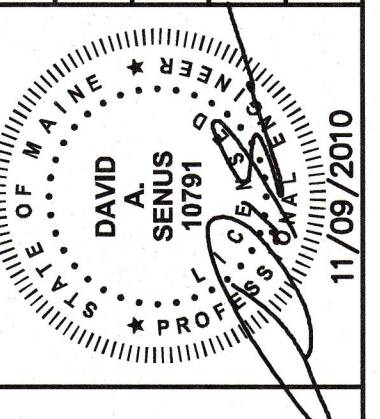


COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME: N/A
DRAWING NAME: 203939.65-000A.DWG
FIELD BOOK USED: N/A

REFERENCES:

DESIGNED BY: D.A.S.
DRAWN BY: J.B.C.
CHECKED BY: D.A.S.
SCALE: 1"=50'
DATE: 11/09/10

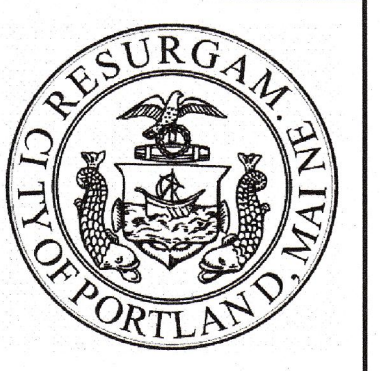


SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

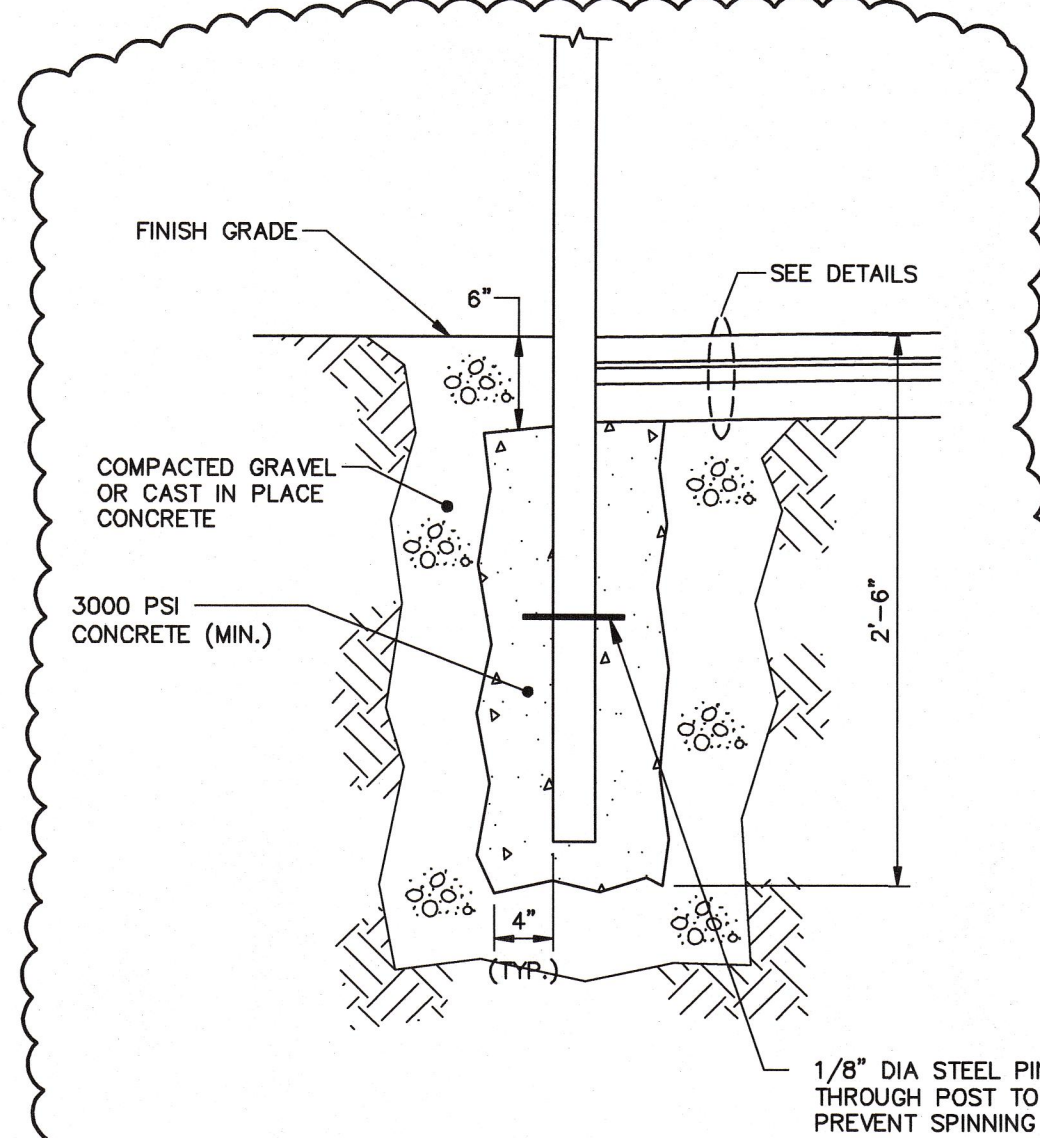
DOUGHERTY FIELD IMPROVEMENTS

DETAILS - 2

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION

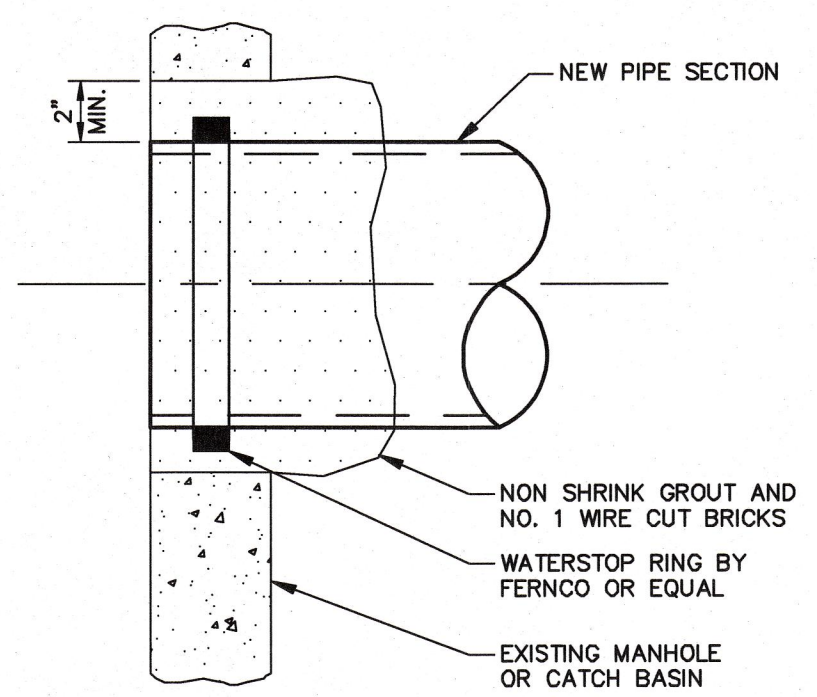


SHEET # 7 OF 9
PLAN NUMBER



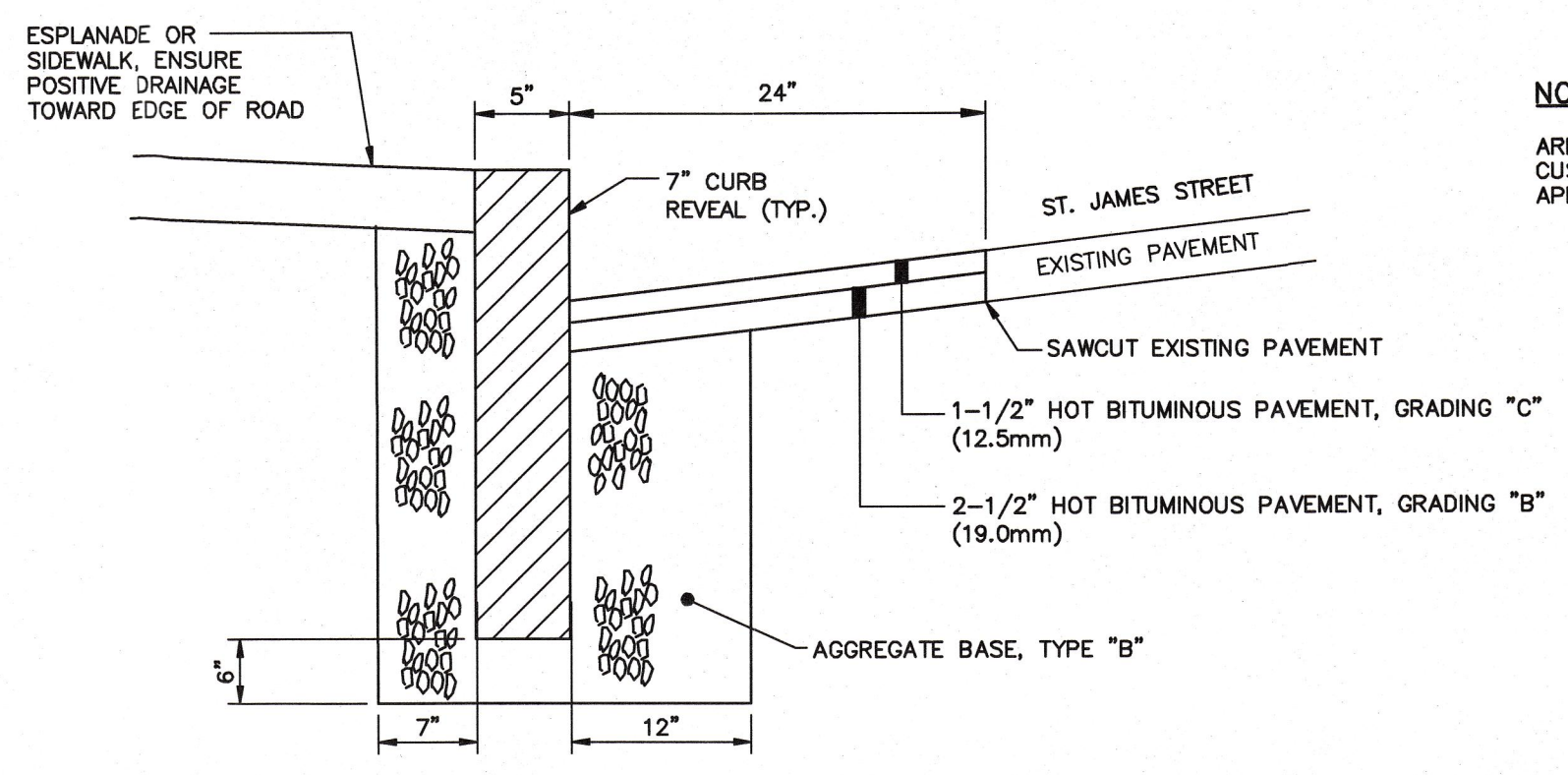
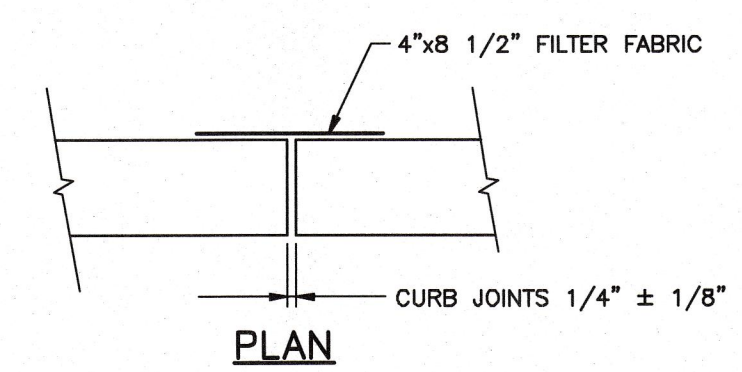
POST SPECIFICATION			
TYPE	HEIGHT ABOVE FIN. GRADE	POST DIAMETER	POST MATERIAL
STREET SIGNAGE	7'-0"	2 3/8" (O.D.)	GALV. STEEL

TYPICAL SIGN POST DETAIL
N.T.S.



NEW PIPE TO EXISTING STRUCTURE
N.T.S.

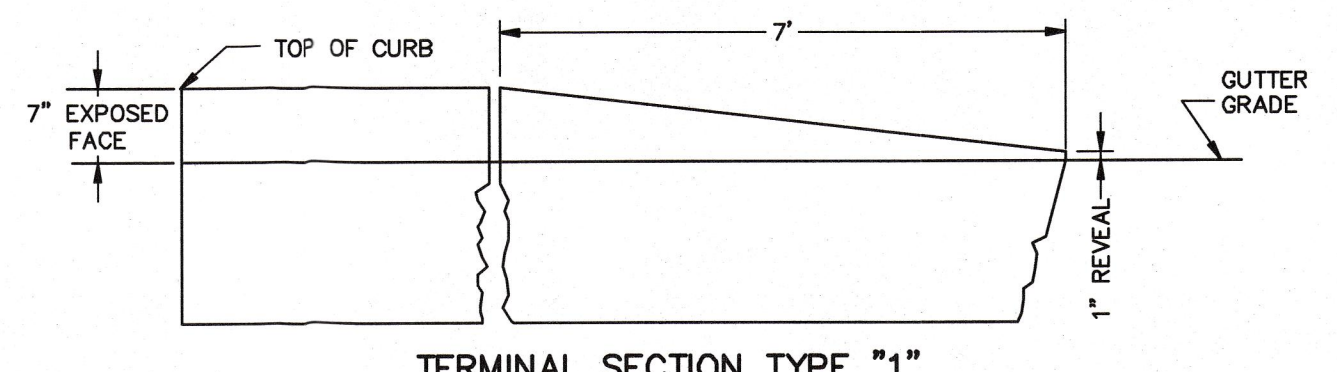
NOTE: EXISTING MANHOLE OR CATCH BASIN SHALL BE CORE DRILLED FOR PIPE INSTALLATION



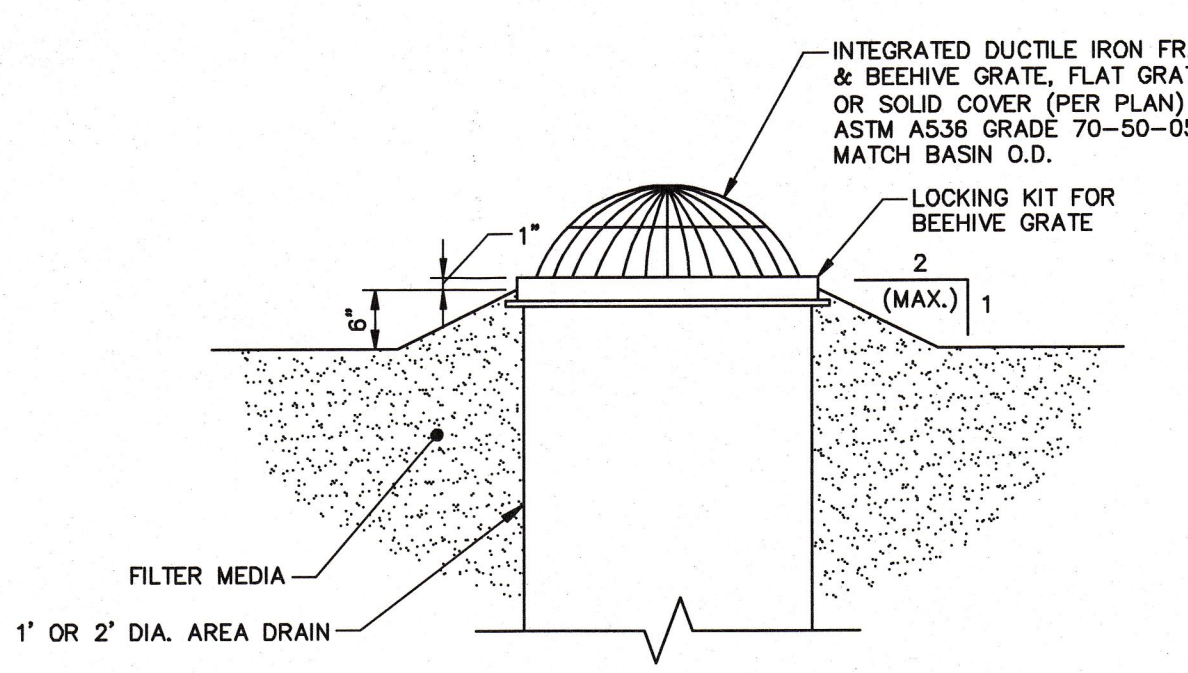
TYPICAL TYPE 1 GRANITE CURB INSTALLATION
N.T.S.

NOTE: AGGREGATE TYPES PER MDT SECTION 304.02

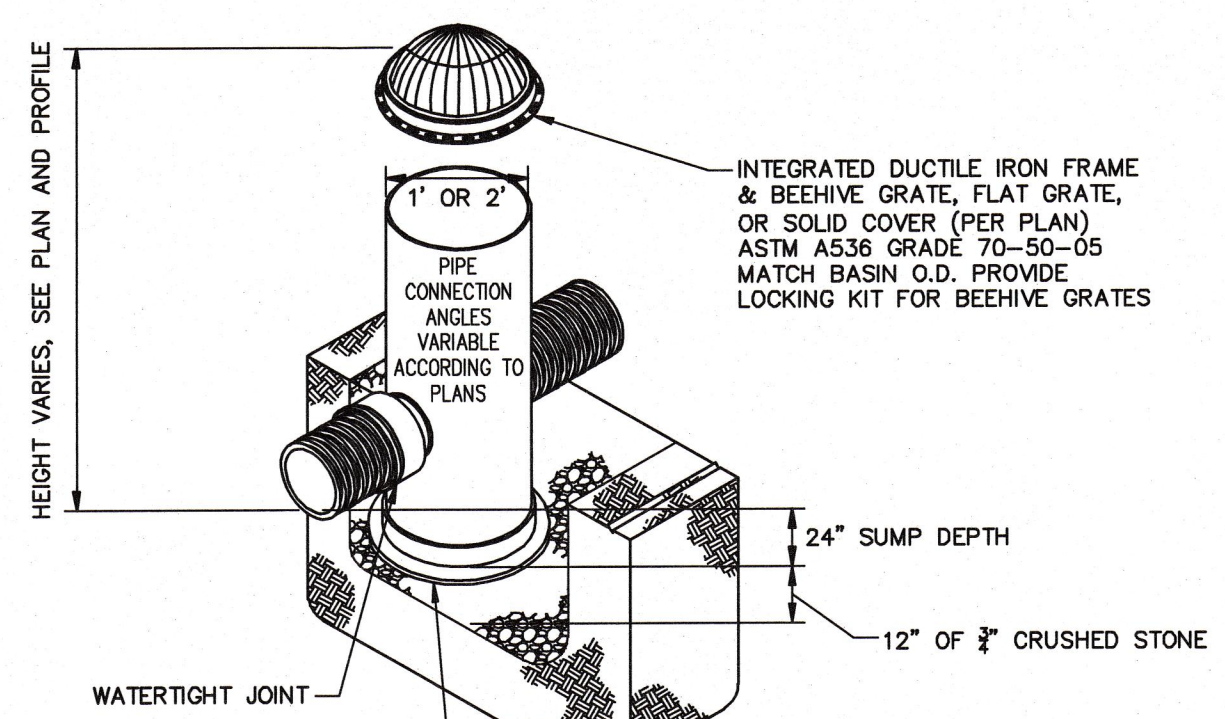
CURB TYPE 1 ON CURVES			
TYPE	RADIUS OF CURVE	LENGTH	STONE IS CUT OR CAST
1	0' TO 60' INCL.	4' MIN.	ARC TO FIT CURVE
	OVER 60' TO 160'	4' TO 6'	STRAIGHT PIECES



TERMINAL CURB SECTION
N.T.S.

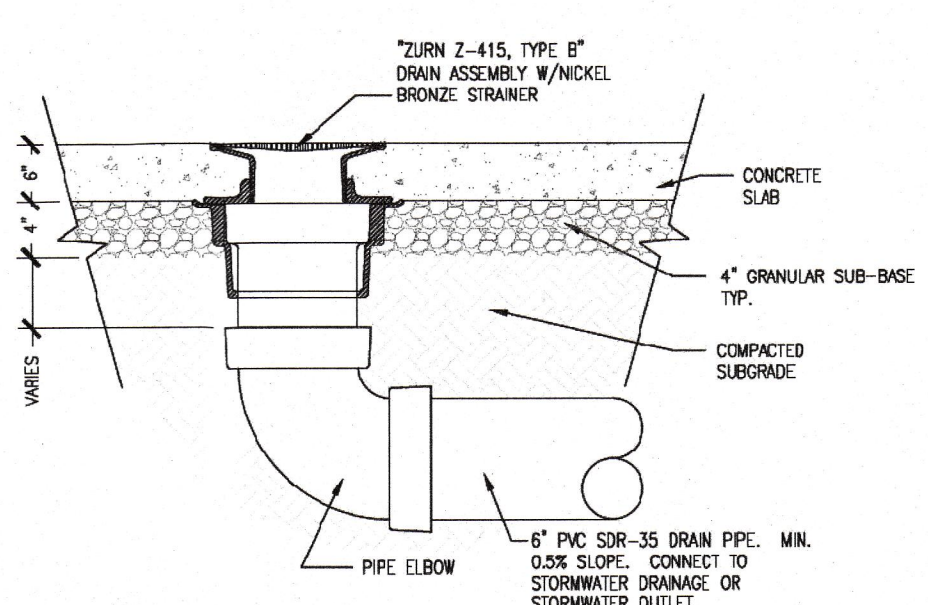


AREA DRAIN GRADING DETAIL
N.T.S.

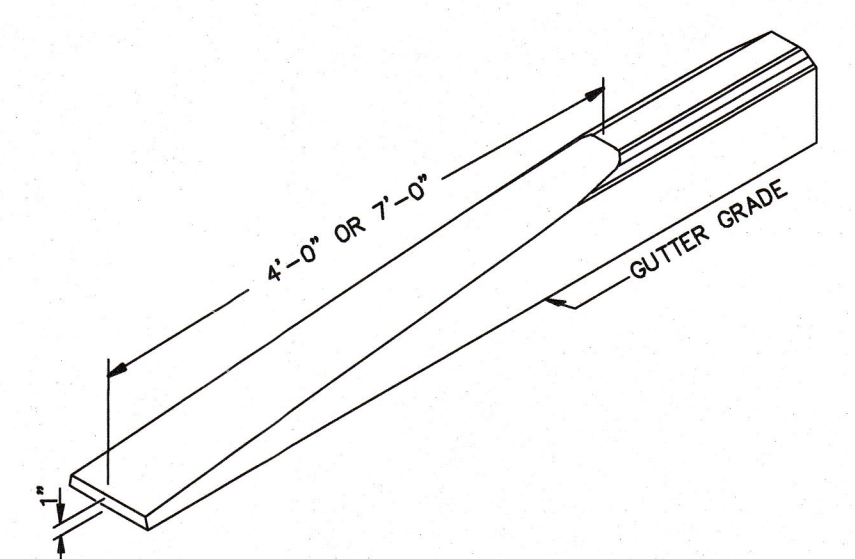


NOTES:
AREA DRAIN TO BE NYLOPLAST CUSTOM DRAIN BASIN OR APPROVED EQUAL.
PROVIDE ANTI-FLOATATION CONCRETE FOOTING SIZED AND ANCHORED PER SUBMITTAL CALCULATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS

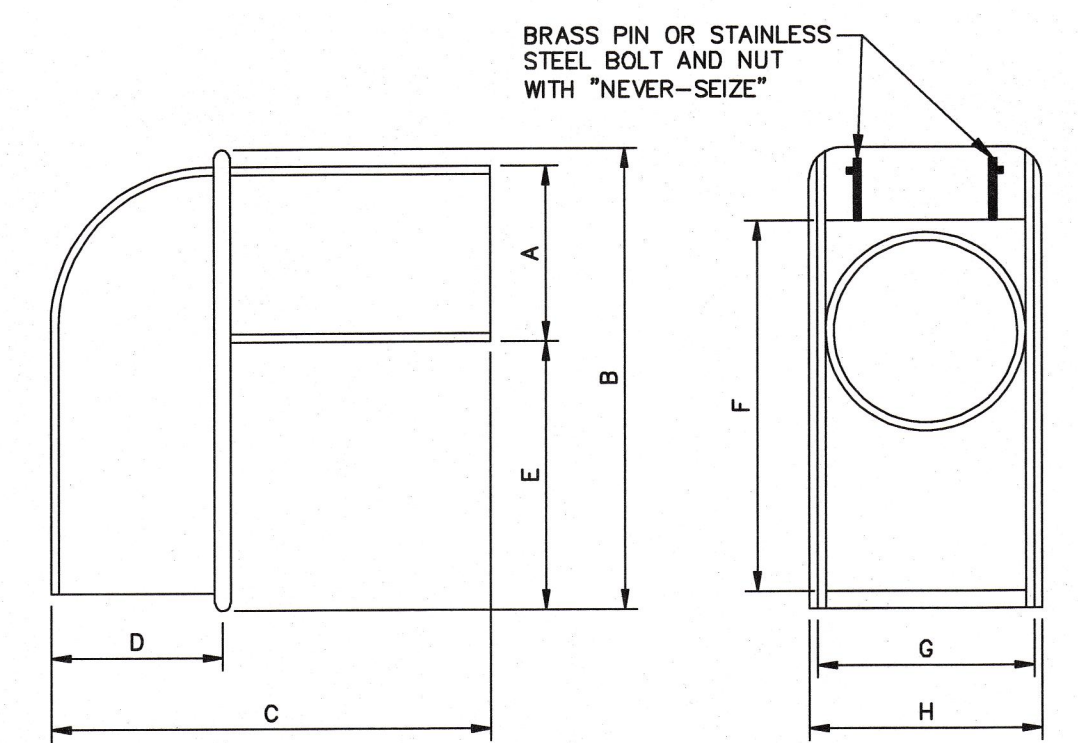
AREA DRAIN
N.T.S.



SKATE PARK FLOOR DRAIN
N.T.S.



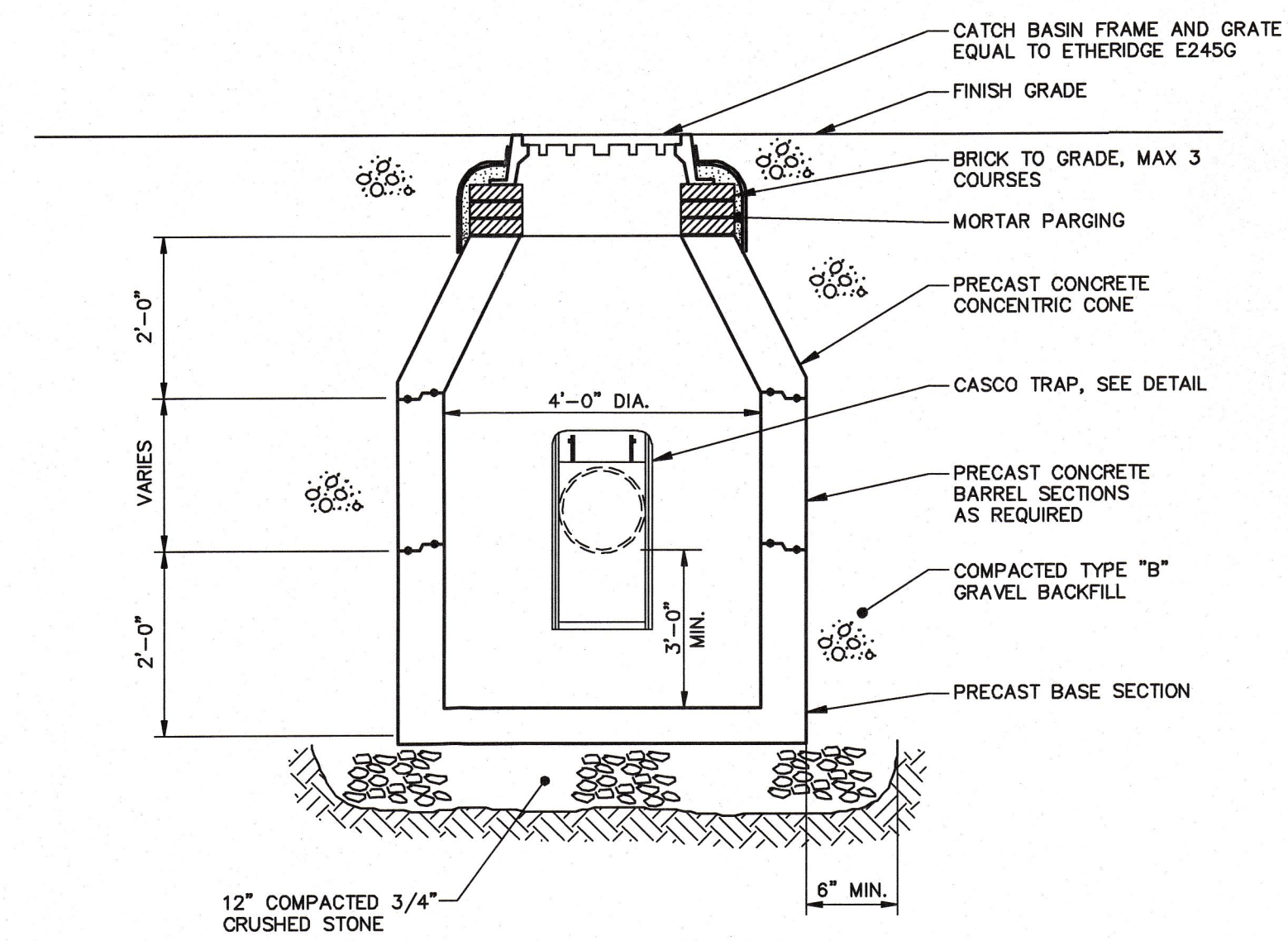
TYPE 3 BITUMINOUS CURB
N.T.S.



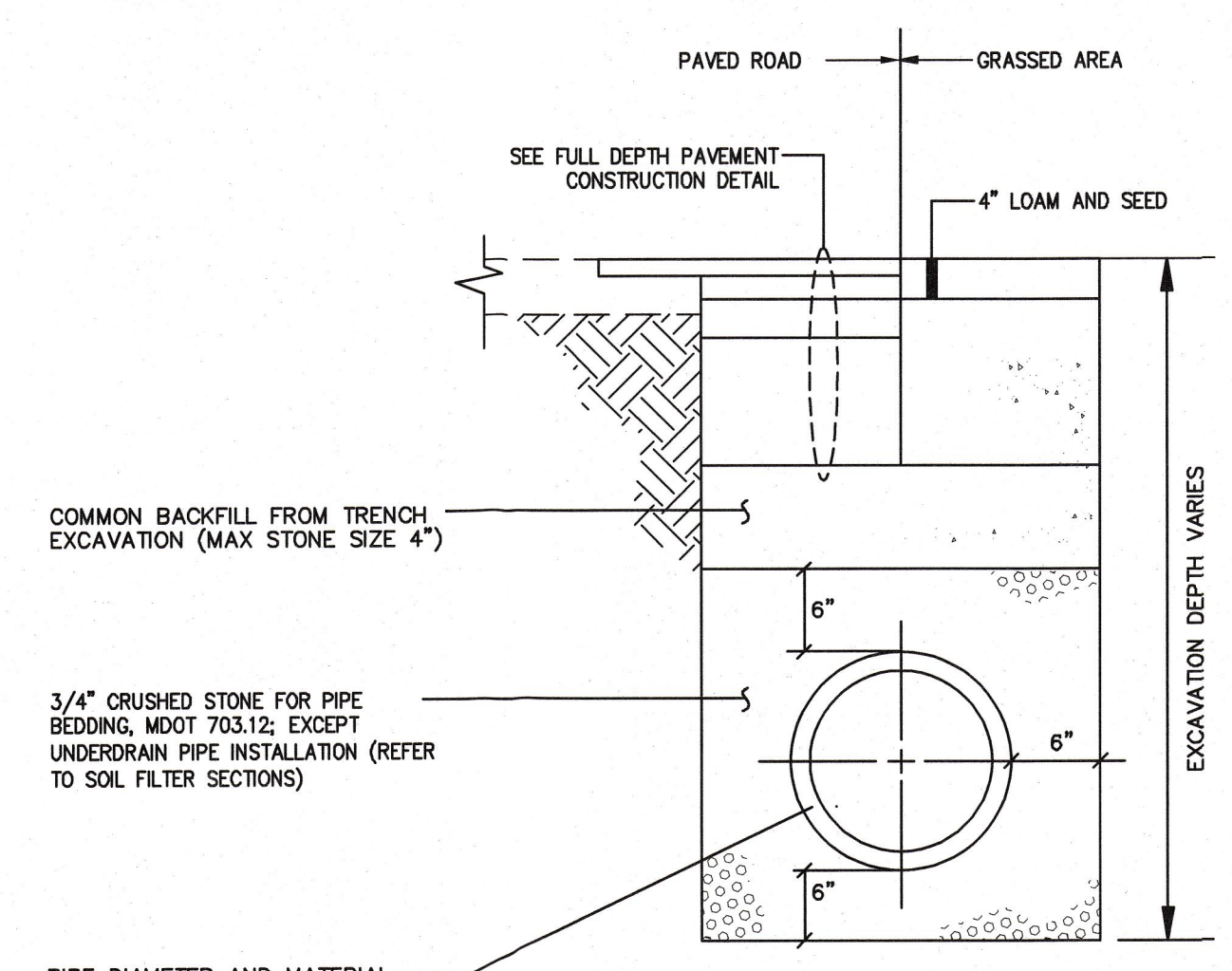
SIZE	A	B	C	D	E	F	G	H
10"	9 1/2"	16"	16 1/4"	6"	4 1/2"	14 1/8"	11 1/2"	12 3/8"

- NOTE:
- CASCO TRAP SHALL BE CAST IRON CASCO TRAP BY ETHERIDGE FOUNDRY OR APPROVED EQUAL.
 - BOLT AND NUT REQUIRED WHERE HOOD WILL NOT OPEN COMPLETELY.
 - CASCO TRAP SHALL BE INSTALLED ON ALL CATCH BASIN OUTLET PIPES, INCIDENTAL TO COST OF CATCH BASIN

CASCO TRAP DETAIL
N.T.S.



TYPICAL CATCH BASIN
N.T.S.



PIPE INSTALLATION DETAIL
N.T.S.

NOTE: NON SOIL FILTER AREAS ONLY

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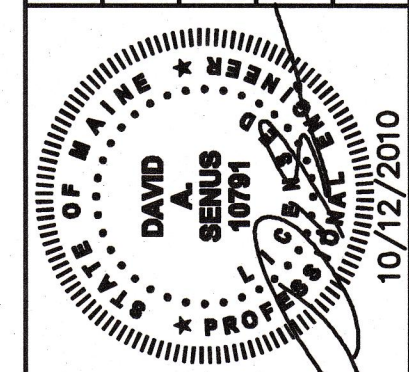


COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME: N/A
DRAWING NAME: 203939.65-D00A.DWG
FIELD BOOK USED: N/A

REFERENCES:
ASCE 11.10.1
ASCE 11.10.2

DESIGNED BY: DAS
DRAWN BY: LBC
CHECKED BY: DAS
SCALE: 1"=50'
DATE: 10/12/10



SITE PLAN APPLICATION - NOT FOR CONSTRUCTION

DOUGHERTY FIELD IMPROVEMENTS

DETAILS - 3

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION



SHEET # 8 OF 9
PLAN NUMBER

CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 11-18-2010

EROSION AND SEDIMENT CONTROL NOTES

Temporary Erosion Control

Contractor shall prepare and submit a soil erosion and water pollution control plan to engineer in accordance with Section 656.

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 around material stockpiles.
Catch Basin Protection	ALL	Before soil or pavement disturbance, install ACF Environmental, Inc. High Flow Siltsock, Siltsover 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 85% soil coverage by Nov. 1, apply mulch and anchor with erosion control blanket.
Mulch	April 15 to Sept. 15	On all areas of exposed soil prior to rain events apply 100-150 lbs (2.5 bales) per 1,000 sq. ft. by mechanical blower.
Winter Mulch	Sept. 16 to Oct. 31	On all areas of exposed soil prior to precipitation apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. by mechanical blower. Erosion control blanket may be used as a substitute for winter mulch.
	Nov. 1 to April 14	On all areas of exposed soil, 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 - Final Course	When no frost is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade. 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 rivelets.
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.

DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

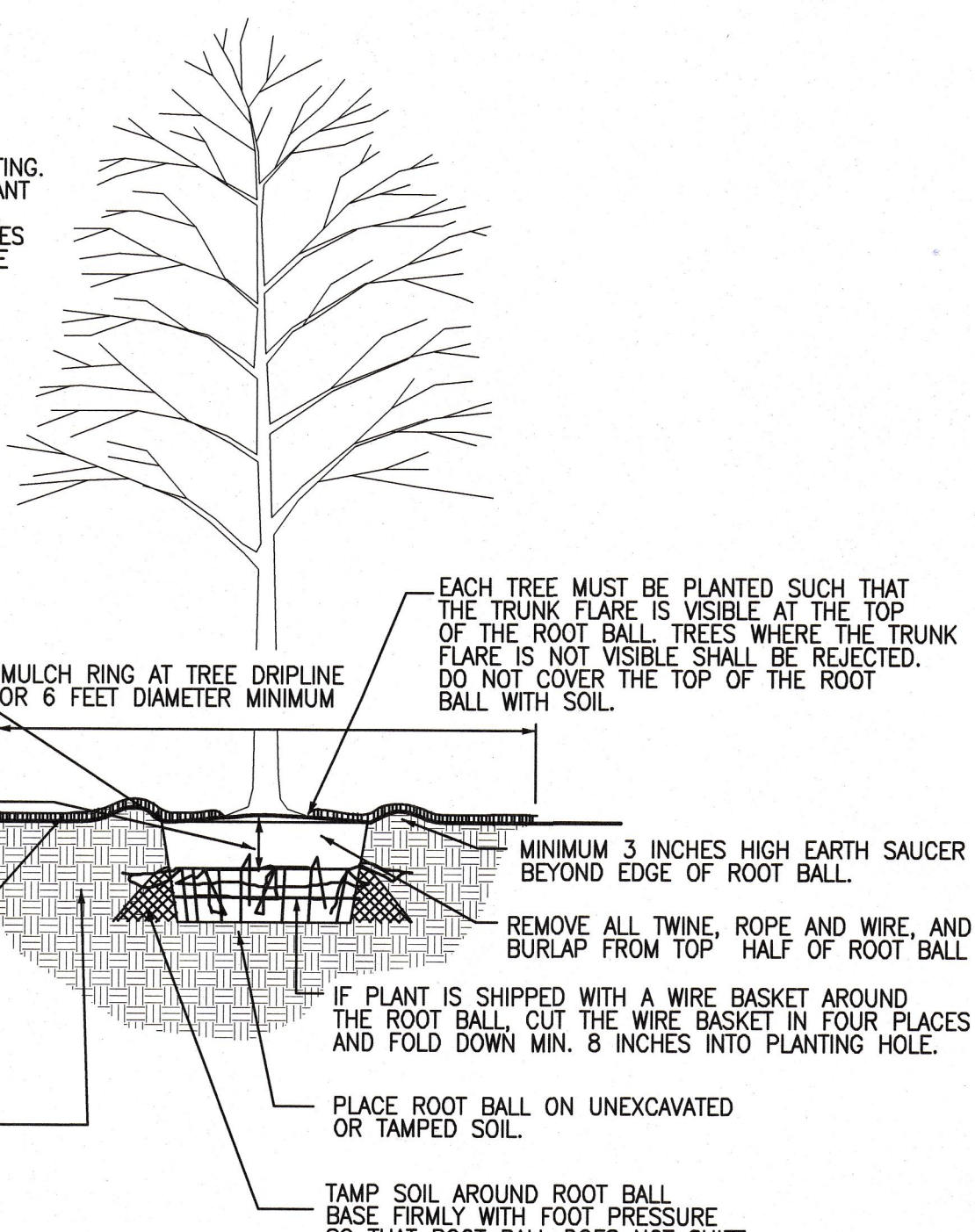
WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 INCHES HIGHER IN SLOWLY DRAINING SOILS.

MINIMUM 8 INCHES BARE ROOTBALL MEASURED FROM TRUNK CROWN

3 INCHES MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

NOTE: FOR DIMENSIONS OF PLANTING AREAS, TYPES OF SOIL AMENDMENTS, OR SOIL REPLACEMENT, SEE LANDSCAPE NOTES AND/OR SPECS.



TREE PLANTING DETAIL

N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES

TEMPORARY EROSION CONTROL MEASURES MAY INCLUDE THE USE OF STABILIZED CONSTRUCTION ENTRANCES, HYDRAULIC MULCH, HAY AND STRAW MULCH, EROSION CONTROL BLANKET, TURF REINFORCED MATTING, RIPRAP AND TEMPORARY SEEDING. TEMPORARY SEDIMENT CONTROL MEASURES INCLUDE THE USE OF SILT FENCE, EROSION CONTROL MIX BERMS, PLUNGE POOLS, CHECK DAMS, SEDIMENT TRAPS, CATCHBASIN SEDIMENT COLLECTION BAGS AND GEOTEXTILE FILTER BAGS. PERMANENT MEASURES INCLUDE THE USE OF RIPRAP AT EXPOSED STORMDRAIN AND CULVERT INLETS AND OUTLETS, ARMORED SWALES AND SLOPES AND PERMANENT VEGETATION.

GENERAL

- THE PROJECT SHALL CONFORM WITH THE STANDARDS OF THE MAINE CONSTRUCTION GENERAL PERMIT, IF APPLICABLE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPS HANDBOOK PUBLISHED BY THE MAINE DEP UNLESS OTHERWISE NOTED IN THESE PLANS. [HTTP://WWW.MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPS/](http://www.maine.gov/dep/blwq/docstand/escbmps/)
- ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE, DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND/OR MUNICIPAL OFFICIALS SHALL BE INSTALLED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLANDS AS A RESULT OF THIS PROJECT.
- THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE SITE WHENEVER POSSIBLE WHILE ALLOWING PROPER SITE DEVELOPMENT.
- CONSTRUCTION STAGING SHALL BE CONDUCTED IN A WAY TO MINIMIZE THE POTENTIAL FOR STORMWATER RUN-ON TO DISTURBED AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERSONNEL. DESCRIPTIONS OF PERMANENT STABILIZATION FOR VARIOUS COVER TYPES FOLLOWS:
 - FOR SEEDDED AREAS, PERMANENT STABILIZATION MEANS THAT 90% OF THE DISTURBED AREA IS COVERED WITH REASONABLY THICK UNIFORM STAND OF PERMANENT GRASS SPECIES, FREE FROM SIZABLE THIN OR BARE SPOTS.
 - FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THAT COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE OFF.
 - FOR MULCHED AREAS, PERMANENT STABILIZATION MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL.
 - FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF A WELL-GRADED GRAVEL OR APPROVED GEOTEXTILE. STONE MUST BE SIZED APPROPRIATELY AND IN ACCORDANCE WITH SECTION E-6 OF THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL.
 - FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE ASPHALT BINDER COURSE.
 - FOR OPEN CHANNELS, LEVEL SPREADERS, ENGINEERED BUFFERS OR OTHER DESIGNED STORMWATER CONVEYANCE STRUCTURE, PERMANENT STABILIZATION MEANS THE CHANNELIZED AREA(S) IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH APPROVED RIPRAP, OR WITH OTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE SHALL BE NO EVIDENCE OF SLUMPING, UNDERCUTTING OR DOWNCUTTING OF THE DESIGNED CHANNEL.
- IF THE AREA WILL REMAIN UNWORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, AND WILL NOT BE BUILT ON, THEN IMMEDIATELY PROVIDE PERMANENT STABILIZATION USING VEGETATION THROUGH PLANTING, SEEDING, SOD OR THROUGH THE USE OF PERMANENT MULCH OR RIPRAP. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS. AMEND AREAS OF DISTURBED, OVERLY-COMPACTED SUBSOIL WITH TOPSOIL OR COMPOST AND LIGHTLY TILL 2-3" OF SOIL AMENDMENTS INTO THE TOP 8" OF SOIL.

- PERMANENT SEEDING SPECIFICATION: IT IS RECOMMENDED THAT PERMANENT SEEDING BE COMPLETED BETWEEN APRIL 1 AND AUGUST 15 OF EACH YEAR. LATE SEASON SEEDING MAY BE DONE BETWEEN AUGUST 15 AND SEPTEMBER 15. AREAS NOT SEED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEED WITH AROOSTOCK WINTER RYE OR MULCHED AT SPECIFIED RATES. SEE WINTER SEEDING AND MULCHING SPECIFICATIONS FOR STABILIZATION AFTER NOVEMBER 1.

- APPLY TOPSOIL TO A DEPTH OF 4 INCHES. IN COMPACTED AREAS TILL 2-3" OF COMPOST INTO UPPER 8" OF DISTURBED SOIL AND THEN APPLY 4 INCHES OF TOPSOIL.
- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TESTS, APPLY GROUND LIMESTONE AT A RATE OF 43 LBS PER 1000 SQUARE FEET AND GRANULAR, COMMERCIAL-GRADE FERTILIZER 10-10-10 AT A RATE OF 18 LBS PER 1000 SQUARE FEET.
- UNIFORMLY APPLY SEED MIXTURE AT THE RECOMMENDED SEEDING RATES AND DATES. APPLY HAY OR STRAW MULCH AT A RATE OF 2.5 BALES PER 1000 SQUARE FEET AND ANCHOR AS NECESSARY.
- THE SEED MIXTURE FOR LAWN AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:
 - 10% CREEPING RED FESCUE
 - 25% KENTUCKY BLUEGRASS
 - 60% PERENNIAL RYE GRASS
 - 5% ANNUAL RYEGRASS
- THE SEED MIXTURE FOR NON-LAWN AREAS WITH LOW-MAINTENANCE SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:
 - 50% CREEPING RED FESCUE
 - 25% TALL FESCUE
 - 10% ANNUAL RYEGRASS
 - 10% WHITE CLOVER
 - 5% RED TOP

- PROTECT ALL SEEDDED AREAS WITH MULCH OR EROSION CONTROL BLANKET IN AREAS OF SHEET OR CONCENTRATED FLOWS. MULCH ALL AREAS SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH REGARDLESS OF THE APPLICATION RATE. SCHEDULE SEEDING OR SOODING TO AVOID FAILURE DUE TO SUMMER DROUGHT AND FALL FROST. NEWLY SEEDDED AREAS SHOULD BE PROTECTED FROM VEHICLE TRAFFIC, PEDESTRIAN TRAFFIC AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE OR SURFACE EROSION IS EVIDENT.

- DITCH LININGS AND RIPRAP INLET AND OUTLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS OF COMPLETING THE GRADING OF THAT SECTION OF DITCH OR INSTALLATION OF THE CULVERT.

- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL PERMANENT SLOPES STEEPER THAN 3:1, IN THE BASE OF DITCHES AND ANY DISTURBED AREAS WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE (WETLANDS AND WATER RESOURCES). EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150B OR APPROVED EQUAL. EROSION CONTROL BLANKET SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURE UPON STABILIZATION OF PROJECT AREA & COST SHALL BE INCIDENTAL TO CONTRACT.

WINTER CONDITIONS

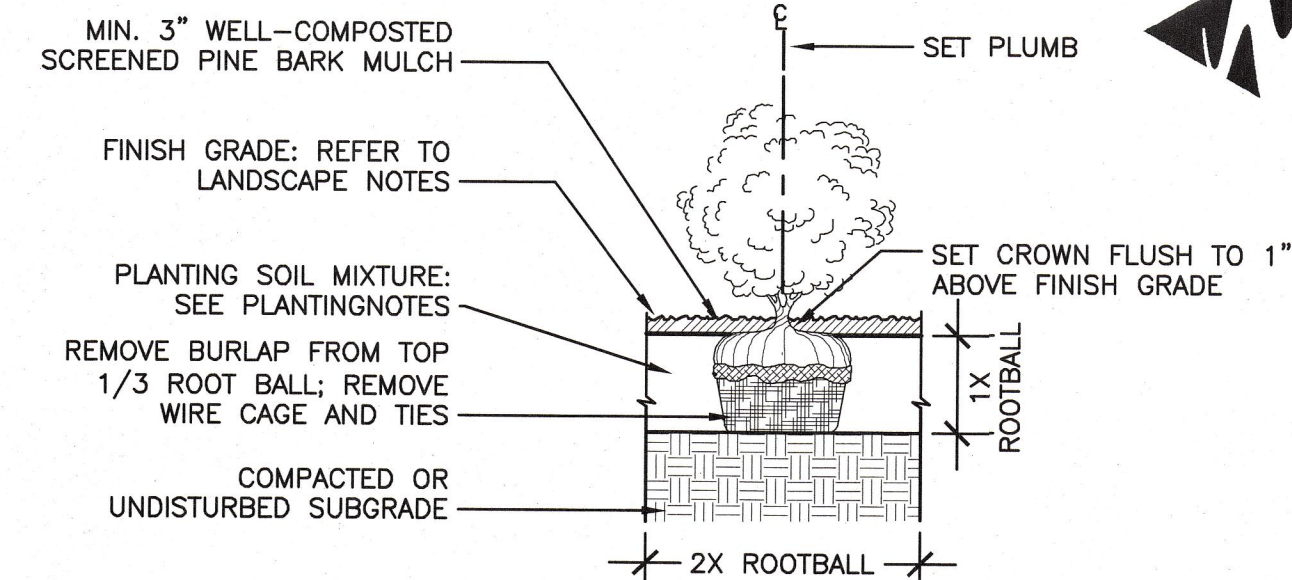
- WINTER CONSTRUCTION IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 1. IF AREAS WITHIN THE CONSTRUCTION AREA ARE NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES OUTLINED ABOVE BY NOVEMBER 15 THEN THE SITE MUST BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES THAT ARE SPECIFIC TO WINTER CONDITIONS.

GOOD HOUSEKEEPING AND POLLUTION PREVENTION

- SPILL PREVENTION CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER RUNOFF AND APPROPRIATE SPILL PREVENTION, CONTAINMENT AND RESPONSE PLANNING AND IMPLEMENTATION.
- DURING CONSTRUCTION, PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUND OR SURFACE WATERS MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO INFILTRATION AREAS. AN "INFILTRATION AREA" IS ANY ARE OF THE SITE THAT BY DESIGN, OR AS A RESULT OF SOIL AND TOPOGRAPHY, ACCUMULATES RUNOFF THAT INFILTRATES IN THE SOIL. DIKES, BERMS, SUMPS AND OTHER FORMS OF TEMPORARY SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
- LOCATE ALL MATERIAL STOCKPILES WITH CONSIDERATION FOR STORMWATER DRAINAGE PATTERNS AND INFRASTRUCTURE.
- TAKE ALL REASONABLE MEASURES TO MINIMIZE DUST RESULTING FROM THE PROJECT. OIL MAY NOT BE USED FOR DUST CONTROL.
- LOCATE ALL LITTER, CONSTRUCTION DEBRIS AND CONSTRUCTION CHEMICALS WITH CONSIDERATION FOR STORMWATER DRAINAGE PATTERNS AND INFRASTRUCTURE.
- TRENCH OR FOUNDATION DE-WATERING MUST BE SPREAD THROUGH SUFFICIENT NATURAL BUFFERS THAT HAVE CAPACITY TO INFILTRATE THE PUMPED WATER OR SHOULD BE PUMPED TO DESIGNED CONSTRUCTION DEWATERING DEVICES AS DESCRIBED IN THE MAINE EROSION AND SEDIMENT CONTROL BMPS HANDBOOK.
- SEDIMENTS AND SOIL MATERIALS SHOULD BE SWEEP FROM PAVED SURFACES AT THE END OF EACH WORKDAY OR PRIOR TO RAIN EVENTS, WHENEVER POSSIBLE.

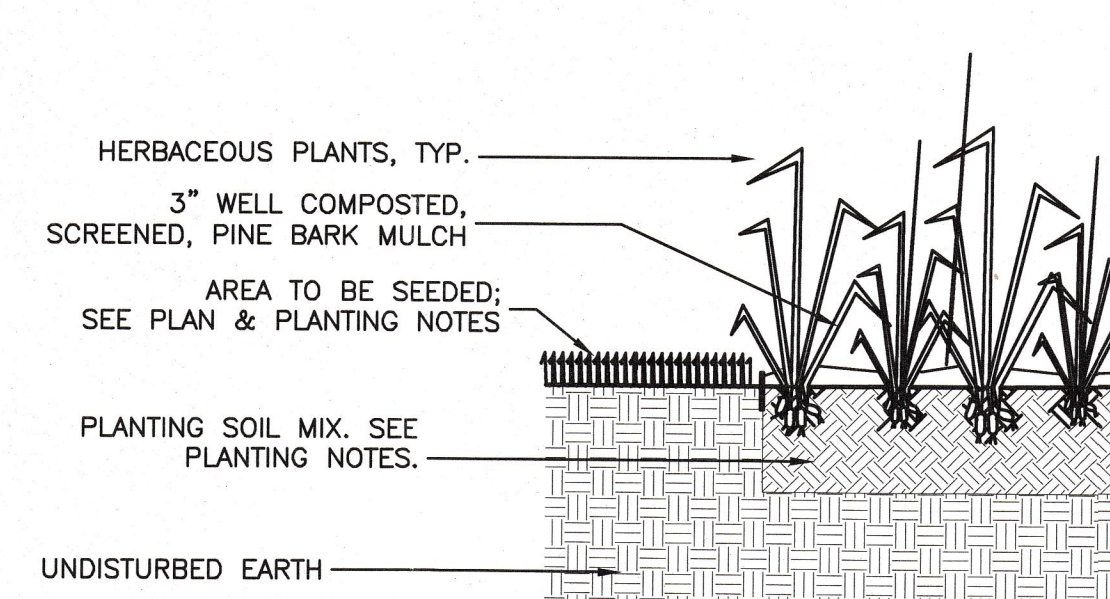
INSPECTION AND MAINTENANCE

- A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROLS, INCLUDING THE STANDARDS IN THE MAINE CONSTRUCTION GENERAL PERMIT, THE MAINE EROSION AND SEDIMENT CONTROL BMPS HANDBOOK AND ANY MUNICIPAL REQUIREMENTS MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF ADDITIONAL BMPS OR MODIFICATIONS TO BMPS ARE NECESSARY, THE MODIFICATIONS MUST BE IMPLEMENTED WITH 7 CALENDAR DAYS OR PRIOR TO ANY PRECIPITATION EVENT. ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
- AN INSPECTION, DATE, AND MAJOR OBSERVATIONS RELATING TO THE OPERATION OF EROSION AND SEDIMENT CONTROL BMPS, MATERIAL STORAGE AREAS, AND VEHICLE ACCESS POINTS TO THE CONSTRUCTION AREA. THE INSPECTION LOG SHOULD BE DELIVERED TO THE PROPERTY OWNER OR RESPONSIBLE CONTRACTING ENTITY UPON COMPLETION OF THE PROJECT.



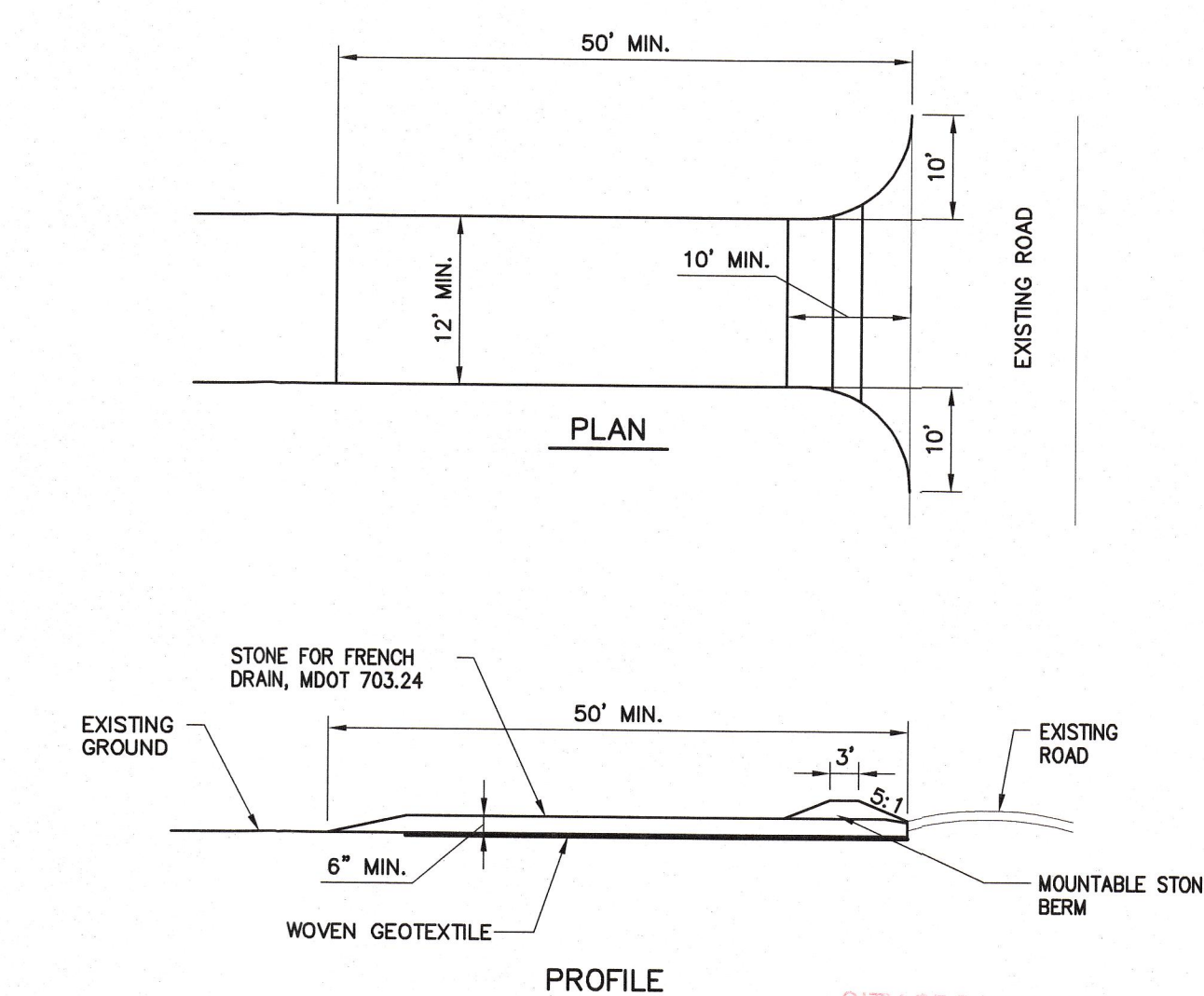
SHRUB PLANTING DETAIL

N.T.S.



HERBACEOUS PLANTING DETAIL

N.T.S.



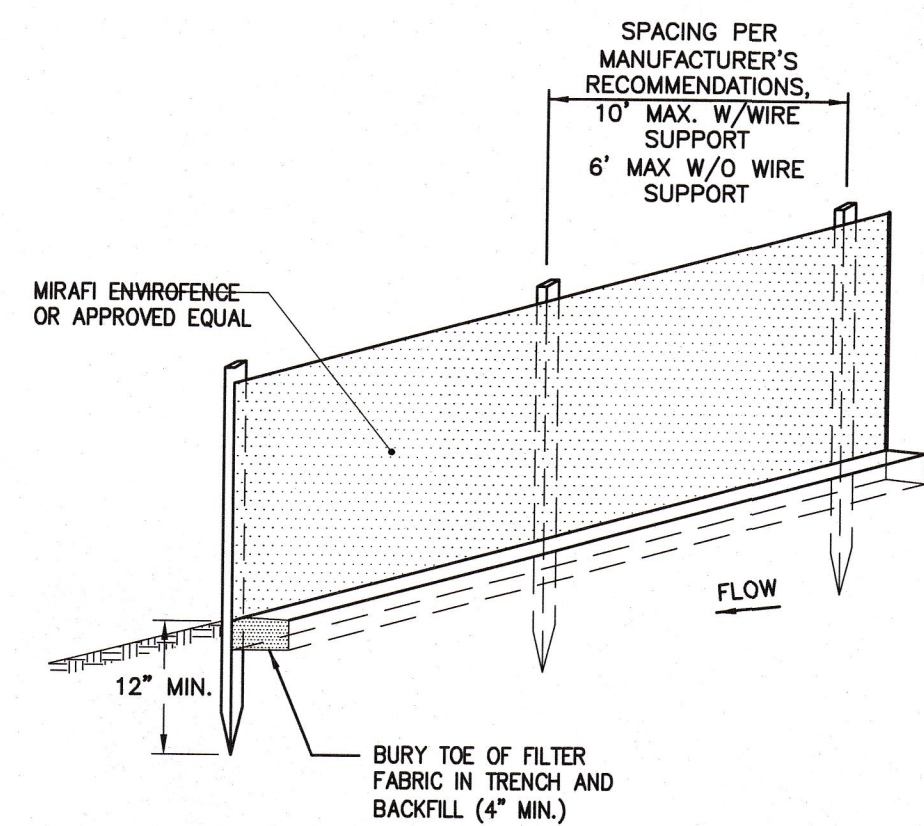
STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.

- NOTES:**
- CONSTRUCTION ENTRANCES MAY BE RELOCATED AS PER APPROVED SITE PLAN CONSTRUCTION PROGRESS.
 - WHEEL WASH PITS MAY ALSO BE USED, IF APPROVED.
- MAINTENANCE:** INSPECT FOR EFFECTIVE REMOVAL OF SOIL FROM VEHICLES PRIOR TO LEAVING THE SITE. SWEEP ANY SOIL FROM ADJACENT ROADWAYS.
- REMOVAL:** AT LEAST ONE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL AREAS OF THE SITE ARE STABILIZED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



NOTES:

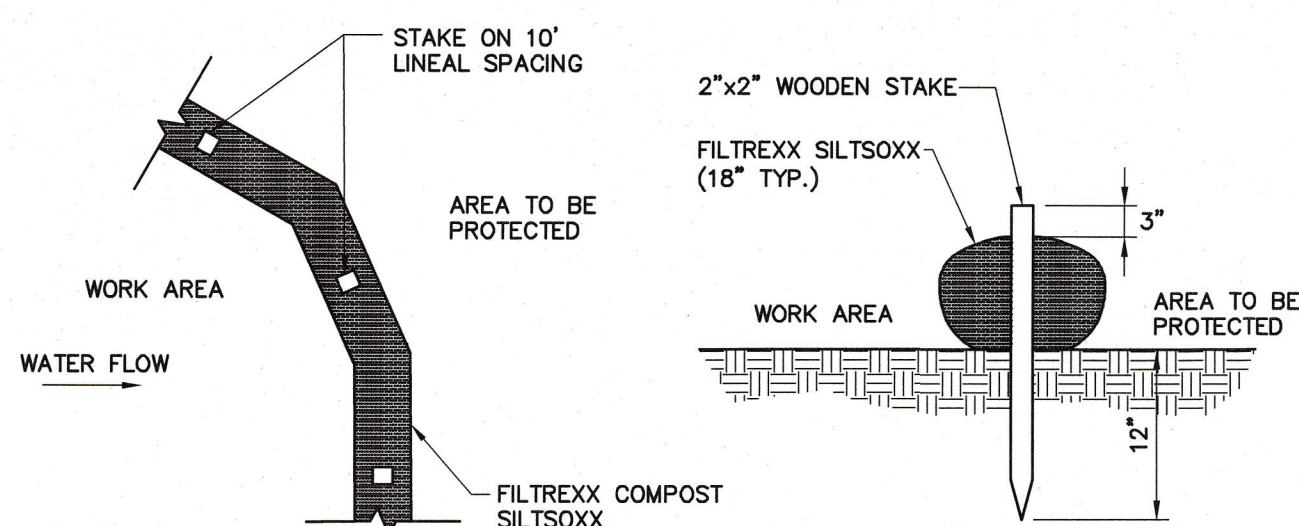
- INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS
- INSTALL SILT FENCE ACROSS SLOPES
- SILT FENCE SHALL NOT BE USED IN DRAINAGEWAYS

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.

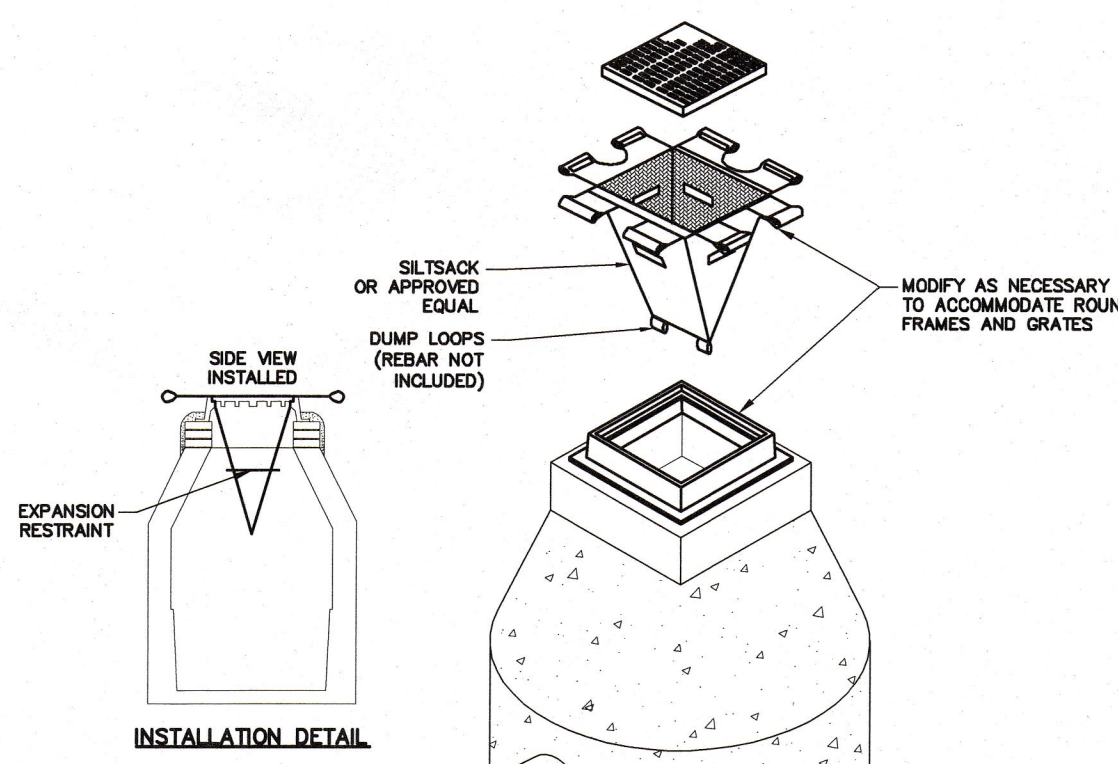
SEDIMENT BARRIER - SILTATION FENCE DETAIL

N.T.S.



SEDIMENT BARRIER - SILTSOXX

N.T.S.



CATCH BASIN INLET SEDIMENT CONTROL

N.T.S.

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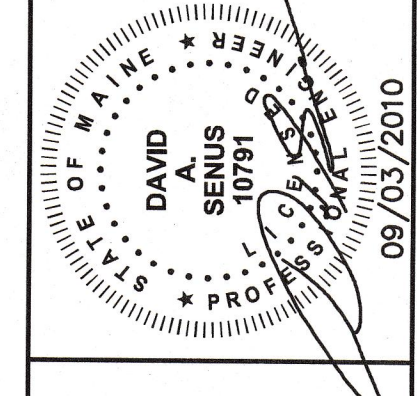


COMMITMENT & INTEGRITY DRIVE RESULTS

LDD PROJECT NAME:
N/A
DRAWING NAME:
203939.65-DOOA.DWG
FIELD BOOK USED:
N/A

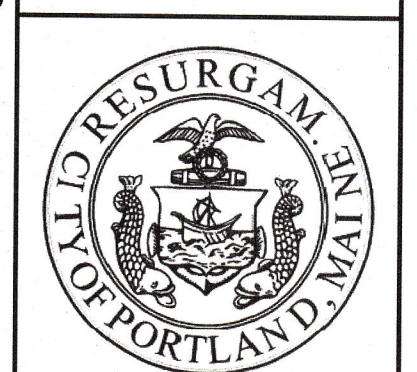
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DOUGHERTY FIELD IMPROVEMENTS

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING SECTION



SHEET #
9 OF 9
PLAN NUMBER

DETAILS - 4

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