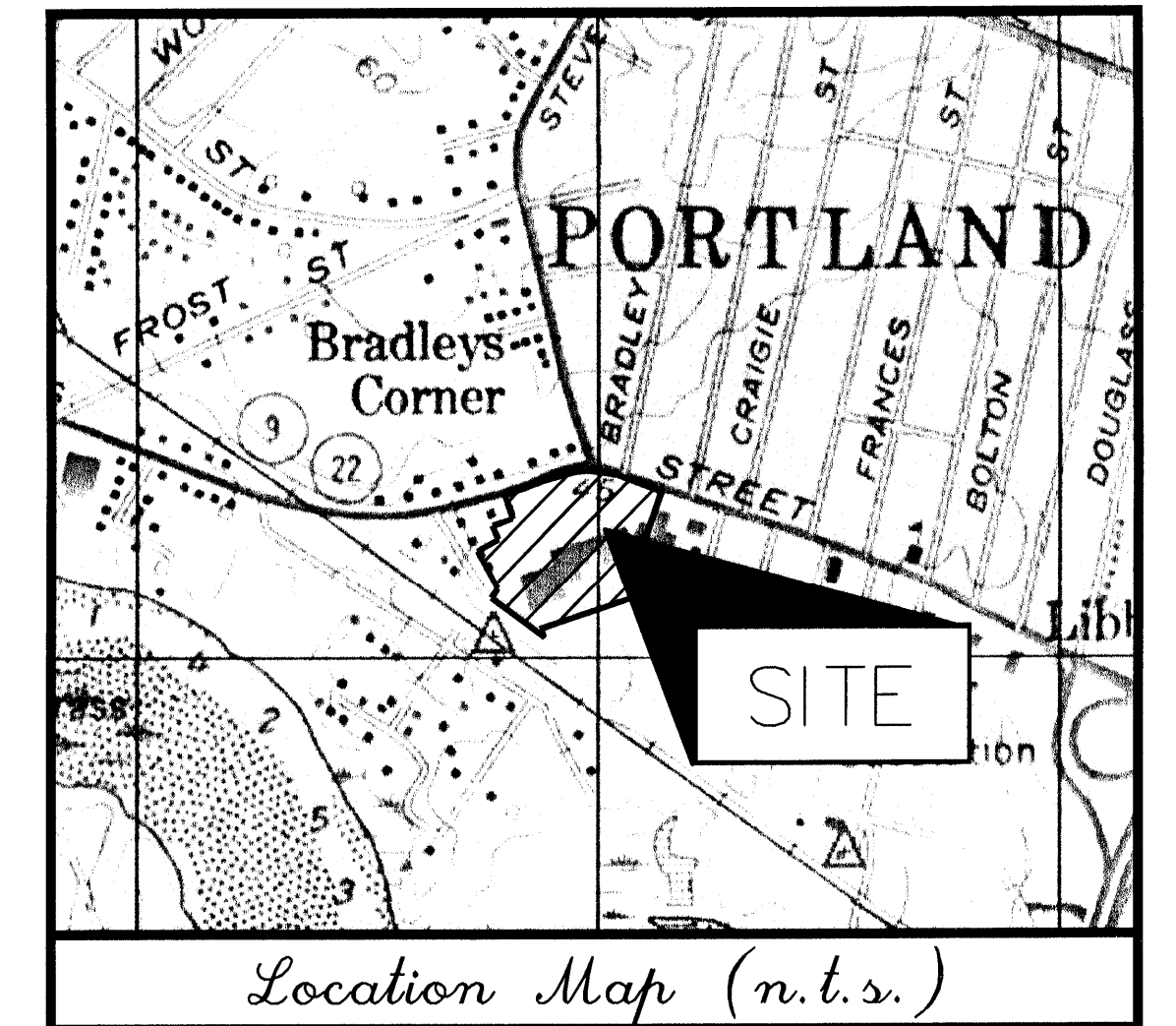


PROPOSED RESTAURANT

1412 CONGRESS STREET
PORTLAND, ME
SITE PLANS

August 13, 2008



Owner: Tim Hortons (New England), Inc.
74 Nooseneck Hill Rd.
W. Greenwich, RI 02817

Prepared By:  **APPLEDORE**
ENGINEERING
177 Corporate Drive
Portsmouth, New Hampshire 03801

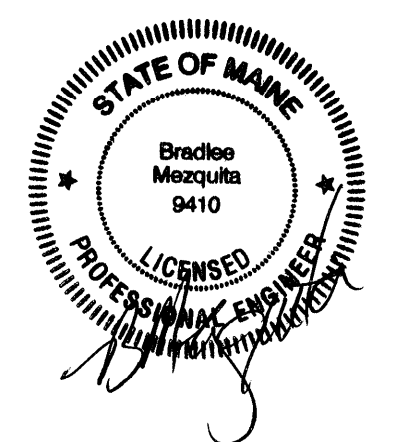
Survey Consultant: **Doucet Survey**
102 Kent Place
Newmarket, New Hampshire 03857

Geotechnical Consultant: **JGI Eastern, Inc.**
201 Hammer Mill Road
Rocky Hill, Connecticut 06067

INDEX

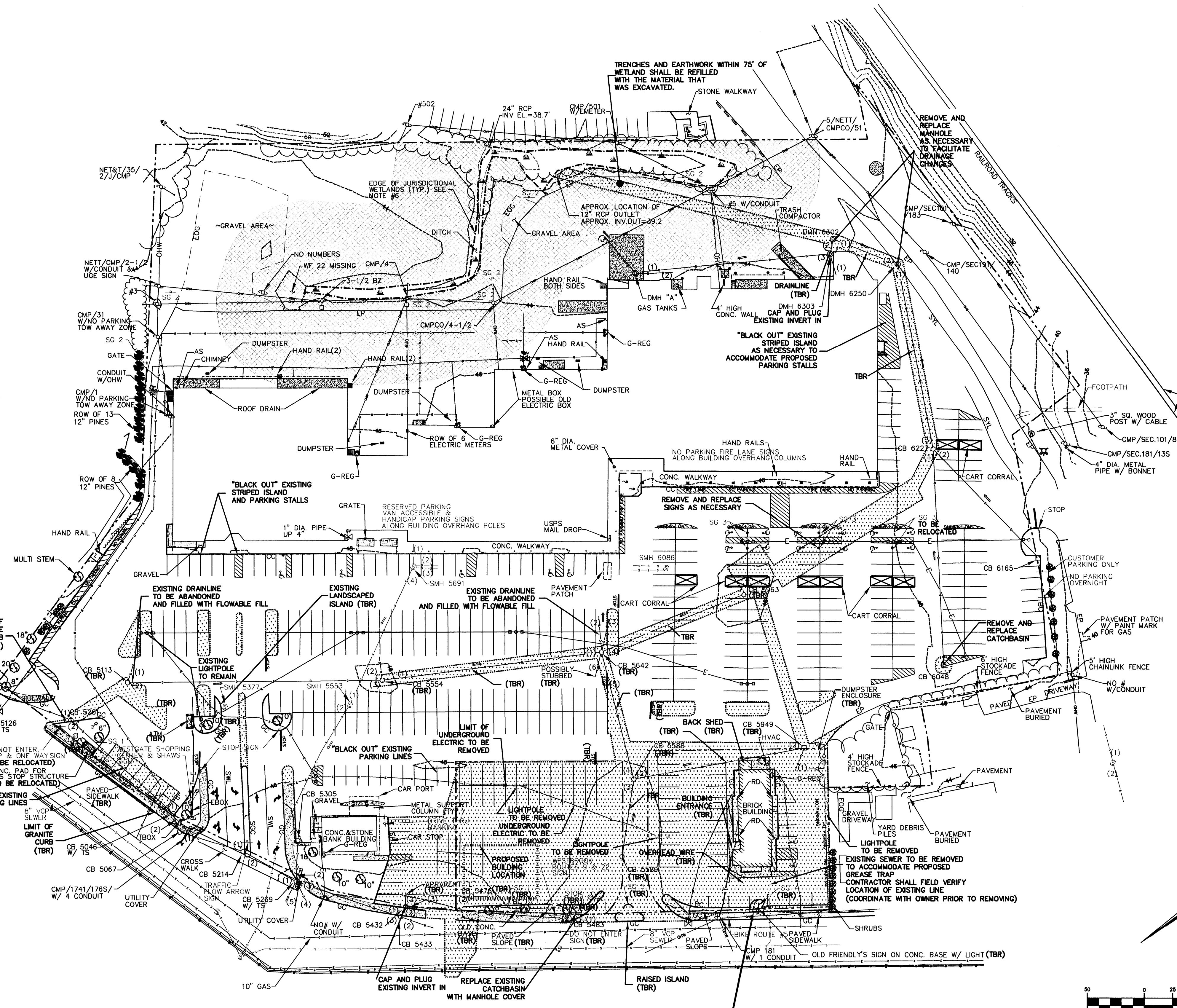
Existing Conditions Plan
Existing Conditions Plan
Overall Demolition Plan
Overall Site Plan
Site Plan
Grading, Drainage, & Erosion Control Plan
Utilities Plan
Landscape Plan
Erosion Control Notes Sheet
Erosion Control Details Sheet
Details Sheet
Details Sheet
Details Sheet

<u>SHEET NO.</u>	<u>LAST REVISED</u>
3 of 4	06/03/08
4 of 4	06/03/08
C-2	08/13/08
C-3A	08/13/08
C-3	08/13/08
C-4	08/13/08
C-5	08/13/08
C-6	08/13/08
C-7	08/13/08
C-8	08/13/08
C-9	08/13/08
C-10	08/13/08
C-11	08/13/08



DEMOLITION NOTES:

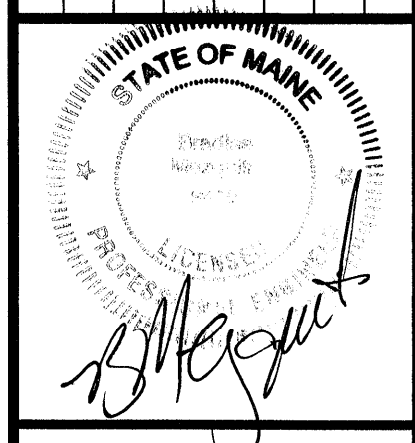
1. THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATION IS NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
2. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
3. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
4. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
6. SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK EXCEPT WHERE NOTED TO BE FILLED WITH FLOWABLE FILL. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
11. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, CATCH BASINS, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, RAMP, WALLS, BOLLARDS, RAILROAD TRACKS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING.
13. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTLAND AND MEDOT.
14. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
15. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, HE SHALL EMPLOY A LICENSED SURVEYOR TO REPLACE IT.
16. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS AFTER EACH RAIN OF 0.50 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.
17. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES, TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
18. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
19. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
20. SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
21. CONTRACTOR SHALL COORDINATE WITH THE CITY OF PORTLAND PLANNING DEPARTMENT TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING ANY WORK.



LEGEND

- | | |
|--|--|
| | PROPERTY LINE |
| | EDGE OF WETLAND |
| | AREA WITH 75' OF WETLAND |
| | EXISTING TREE LINE |
| | EXISTING FENCE |
| | EXISTING DRAINAGE |
| | EXISTING ELECTRIC/TELEPHONE/CABLE |
| | EXISTING OVERHEAD WIRE |
| | EXISTING WATER |
| | EXISTING SEWER |
| | EXISTING GAS |
| | EXISTING CONTOUR |
| | EXISTING 10' CONTOUR |
| | SAWCUT LIMIT |
| | LIMIT OF DEMOLITION |
| | PROPOSED BUILDING LOCATION |
| | EXISTING CONCRETE/BITUMINOUS SIDEWALK |
| | EXISTING SIGN |
| | EXISTING BOLLARD |
| | EXISTING TREE |
| | DECIDUOUS TREE |
| | UTILITY POLE & GUY WIRE |
| | LIGHT POLE (ONE ARM) |
| | LIGHT POLE (TWO ARMS) |
| | LIGHT POLE (FOUR ARMS) |
| | FIRE HYDRANT |
| | GAS GATE VALVE |
| | WATER GATE VALVE |
| | WATER SHUTOFF VALVE |
| | CATCH BASIN |
| | DRAIN MANHOLE |
| | ELECTRIC MANHOLE |
| | TELEPHONE MANHOLE |
| | WATER MANHOLE |
| | EXISTING SEWER MANHOLE |
| | EXISTING DRAIN MANHOLE |
| | SQUARE MANHOLE |
| | LANDSCAPED AREA |
| | ACCESSIBLE PARKING SPACE |
| | TRAFFIC FLOW DIRECTION ARROW |
| | DRAINAGE PIPE INDICATOR |
| | CHAINLINK FENCE |
| | OVERHANG |
| | VERTICAL BITUMINOUS CURB |
| | VERTICAL CONCRETE CURB |
| | VERTICAL GRANITE CURB |
| | CONCRETE |
| | RETAINING |
| | TYPICAL |
| | FINISH FLOOR IDENTIFIER |
| | EDGE OF PAVEMENT |
| | SINGLE WHITE LINE |
| | SINGLE YELLOW LINE |
| | TO BE REMOVED |
| | PAVEMENT/SIDEWALKS TO BE RECLAIMED/REMOVED |
| | SIDEWALK TO BE REPLACED/REMOVED |
| | AREA WITHIN 75' OF WETLAND |

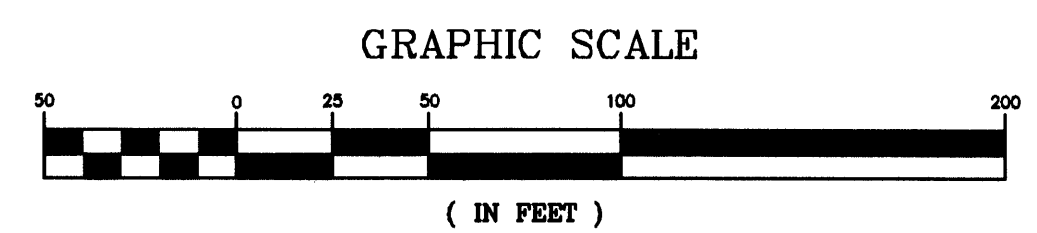
No.	Description	Date



DATE: AUGUST 13, 2008
SCALE: AS SHOWN
DESIGNED BY: GY/BLM
DRAWN BY: SAM/KAM
APPROVED BY: BLM
PROJECT NO.: 2256
FILE NO.: 2256-SITE-REST

**PROPOSED RESTAURANT
CONGRESS STREET
PORTLAND, MAINE**

**APPLEDORE
ENGINEERING**
177 CORPORATE DRIVE
PORTSMOUTH, NEW HAMPSHIRE 03801
(603) 433-8818
ae@appledoreeng.com



RESTAURANT SITE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL EXISTING STRUCTURES, PAVEMENT ETC WITHIN RESTAURANT OUTPARCEL (COORDINATE WITH LANDLORD SITE CONTRACTOR)

OVERALL DEMOLITION PLAN

SITE NOTES:

1. STRIPE PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, HANDICAP SYMBOLS, PAINTED ISLANDS, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES (ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING WHITE TRAFFIC PAINT, CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING YELLOW TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F").
2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
3. SEE DETAILS FOR PARKING STALL MARKINGS, HANDICAP SYMBOLS, SIGNS AND SIGN POSTS.
4. CENTERLINES SHALL BE FOUR (4) INCH WIDE YELLOW LINES. STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE.
5. PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
6. THE CONTRACTOR SHALL EMPLOY A LICENSED ENGINEER/SURVEYOR TO DETERMINE ALL LINES AND GRADES. DESIGN ENGINEER TO PROVIDE COORDINATES FOR EDGE OF PAVEMENT, PC'S & PTS.
7. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAWCUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND/OR CITY CODES & SPECIFICATIONS.
9. WORK WITHIN CONGRESS STREET SHALL BE COORDINATED WITH CITY OF PORTLAND AND THE MEDOT.
10. CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (DWG FILE) ON DISK TO THE OWNER AND ARCHITECT UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
11. COORDINATE ALL CONSTRUCTION ADJACENT TO THE LIMIT OF WORK WITH THE BANK/RESTAURANT CONTRACTOR.
12. ALL WORK SHALL CONFORM TO THE CITY OF PORTLAND DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS.
13. CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED. COORDINATE WITH BUILDING CONTRACTOR.
14. ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW.
15. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PARKING AND LAIN LINE CONFIGURATION SHALL BE "BLACKED OUT"

PARKING REQUIREMENTS

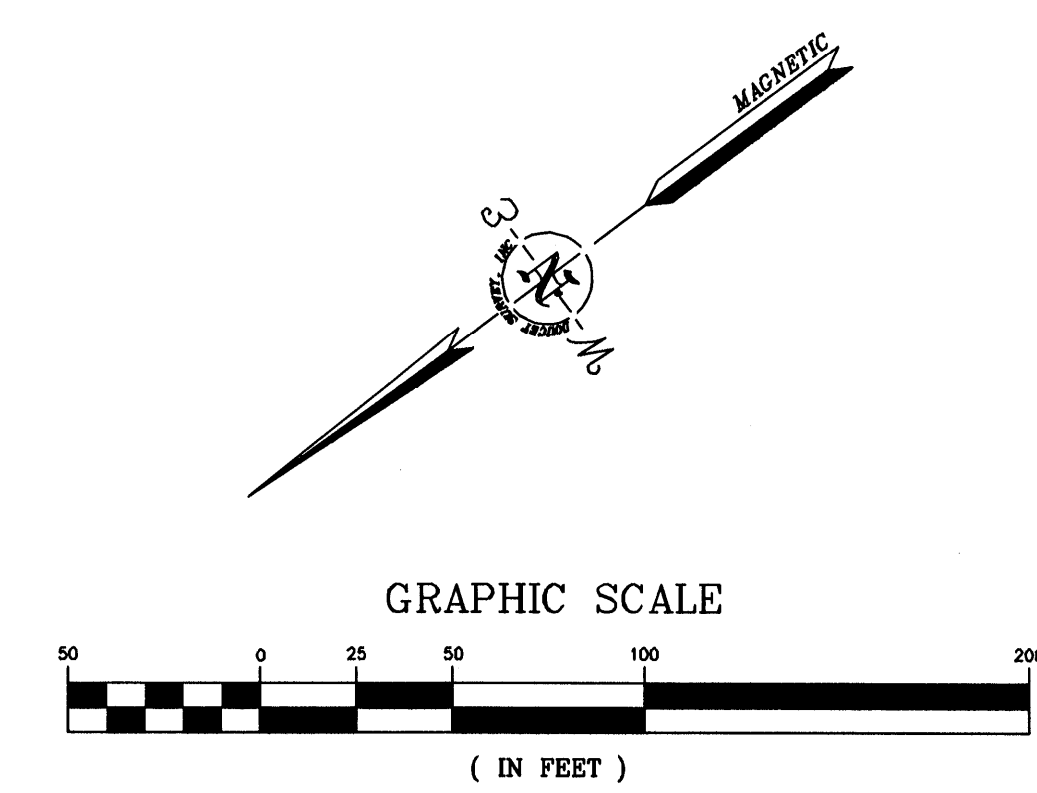
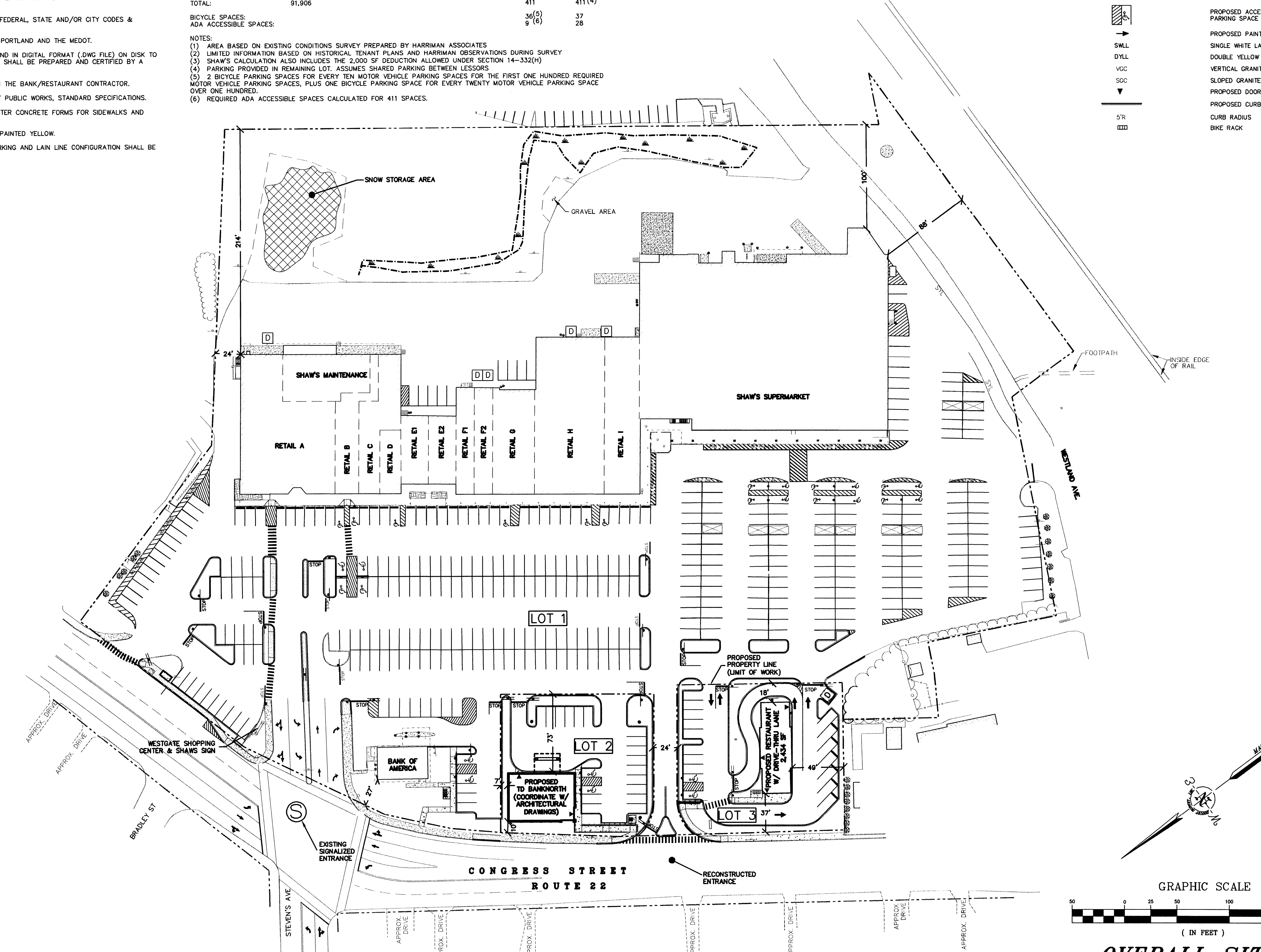
TENANTS:	FLOOR AREA (1)	BULK STORAGE: (2)	AREA COUNTED TOWARD PARKING	PARKING REQUIREMENT:	REQUIRED: (3)	PROVIDED:
SHAW'S	38,949	3,600	35,349	1/200 SF	167	
SHAW'S MAINTENANCE	3,772	1,500	2,272	1/334 SF	7	
OTHER RETAIL						
RETAIL A	9,370	1,700	7,670	1/200 SF	38	
RETAIL B	2,912		2,912	1/200 SF	15	
RETAIL C	2,922		2,922	1/200 SF	15	
RETAIL D	1,349		1,349	1/200 SF	7	
RETAIL E1	1,670		1,670	1/200 SF	9	
RETAIL E2	1,582		1,582	1/200 SF	8	
RETAIL F1	1,837		1,837	1/200 SF	9	
RETAIL F2	1,837		1,837	1/200 SF	9	
RETAIL G	4,008		4,008	1/200 SF	20	
RETAIL H	9,903	500	9,403	1/200 SF	47	
RETAIL I	4,921		4,921	1/200 SF	25	
BANK OF AMERICA	1,440		1,440	1/200 SF	7	
PROPOSED RESTAURANT	2,434		1,914	1/150 SF	13	375
PROPOSED TO BANKNORTH	3,000		3,000	1/200 SF	15	17
TOTAL:	91,906				411	411 (4)
BICYCLE SPACES:					36 (5)	37
ADA ACCESSIBLE SPACES:					9 (6)	28

NOTES:

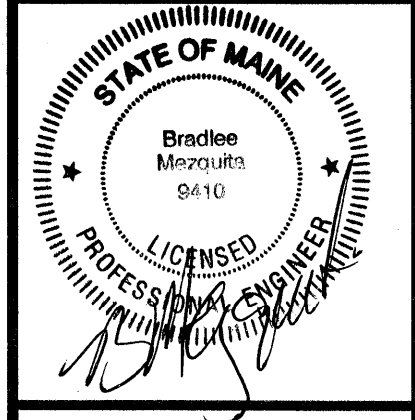
- (1) AREA BASED ON EXISTING CONDITIONS SURVEY PREPARED BY HARRIMAN ASSOCIATES
- (2) LIMITED INFORMATION BASED ON HISTORICAL TENANT PLANS AND HARRIMAN OBSERVATIONS DURING SURVEY
- (3) SHAW'S CALCULATION ALSO INCLUDES THE 2,000 SF DEDUCTION ALLOWED UNDER SECTION 14-332(H)
- (4) PARKING PROVIDED IN REMAINING LOT. ASSUMES SHARED PARKING BETWEEN LESSORS
- (5) 2 BICYCLE PARKING SPACES FOR EVERY TEN MOTOR VEHICLE PARKING SPACES FOR THE FIRST ONE HUNDRED REQUIRED MOTOR VEHICLE PARKING SPACES, PLUS ONE BICYCLE PARKING SPACE FOR EVERY TWENTY MOTOR VEHICLE PARKING SPACE OVER ONE HUNDRED.
- (6) REQUIRED ADA ACCESSIBLE SPACES CALCULATED FOR 411 SPACES.

LEGEND

- PROPERTY LINE
- EXISTING CONCRETE/BITUMINOUS SIDEWALK
- PROPOSED CONCRETE SIDEWALK
- PROPOSED BITUMINOUS SIDEWALK
- PROPOSED CONCRETE PAD
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED LIGHT POLE BASE
- PROPOSED BOLLARD
- PROPOSED ACCESSIBLE PARKING SPACE
- PROPOSED PAINTED ARROWS
- SINGLE WHITE LANE LINE
- DOUBLE YELLOW LANE LINE
- VERTICAL GRANITE CURB
- SLOPED GRANITE CURB
- PROPOSED DOOR LOCATION
- PROPOSED CURB
- CURB RADIUS
- BIKE RACK



No.	Description	Revised Per	Comments	Date
1.		BLM		8/13/08
2.		BLM		7/25/08



DATE: JULY 7, 2008
 SCALE: AS SHOWN
 DESIGNED BY: GY/BLM
 DRAWN BY: SAM/KAM
 APPROVED BY: BLM
 PROJECT NO.: 2256
 FILE NO.: 2256-SITE-REST

**PROPOSED RESTAURANT
 CONGRESS STREET
 PORTLAND, MAINE**

APPLEDORE ENGINEERING
 177 CORPORATE DRIVE
 PORTSMOUTH, NEW HAMPSHIRE 03801
 (603) 433-8818
 aei@appledoreeng.com

OVERALL SITE PLAN

UTILITY NOTES:

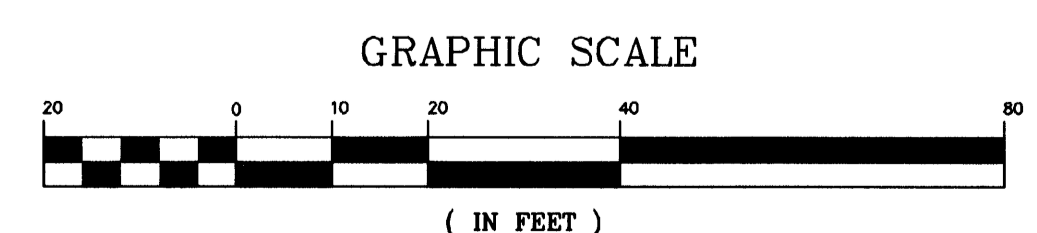
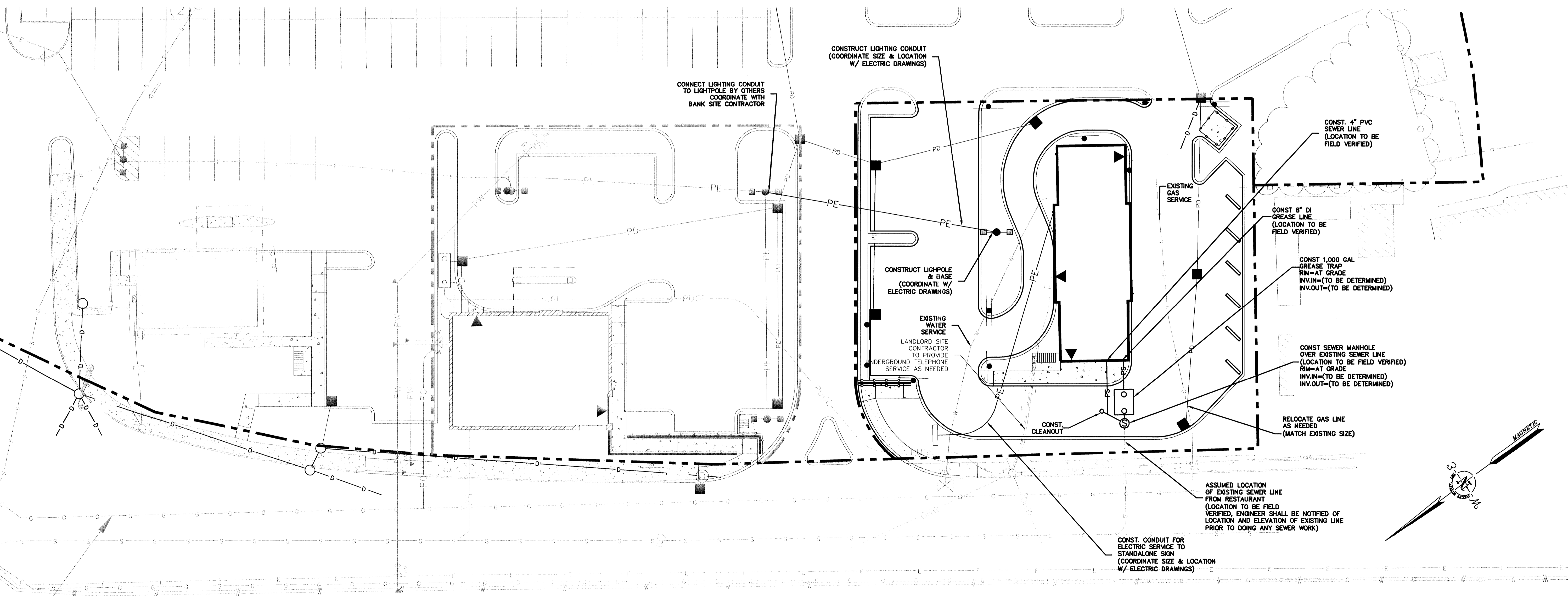
1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
 WATER - PORTLAND WATER DISTRICT - JAMIE PASCHAL (207) 774-5961 EX.3051
 SEWER - CITY OF PORTLAND DEPARTMENT OF PUBLIC SERVICES - TODD MERKLE (207) 874-8493
 ELECTRIC - CENTRAL MAINE POWER COMPANY - PAUL DUPERRÉ (207) 828-2882
 GAS - NORTHERN UTILITIES - LINDA MURRAY (877) 427-4748
 TELEPHONE - FAIRPOINT COMMUNICATIONS - JOHN CAPRIO (207) 797-1842
3. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
4. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
5. ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
6. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS, OVERALL SITE CONTRACTOR AND THE UTILITY COMPANIES.
7. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
9. A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
10. ALL SEWER PIPE WITH LESS THAN 4' OF COVER SHALL BE INSULATED.
11. SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.

LIGHTING NOTES:

1. CONTRACTOR TO COORDINATE WITH ELECTRICAL SITE LIGHTING PHOTOMETRICS DRAWINGS FOR LIGHTING FIXTURES, CONDUIT SIZE, LOCATION AND CIRCUITRY PLAN.
2. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS, CONCRETE BASES, WIRING AND INSTALLATION OF ALL LIGHT FIXTURES AND WARRANTEE LABOR.
3. THE CONTRACTOR SHALL PROVIDE INSURANCE AGAINST DAMAGE AND THEFT OF THE FIXTURES UNTIL SUBSTANTIAL COMPLETION INSTALLING THE FIXTURE AND WIRING THE FIXTURES TO THE SITE ELECTRICAL JUNCTION BOX LOCATED ON THE FRONT WALL OF THE BUILDING.

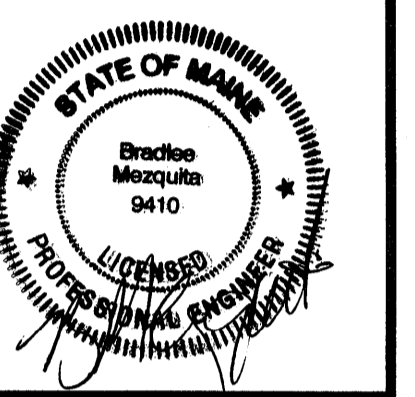
LEGEND

	PROPERTY LINE
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	EXISTING ELECTRIC/TELEPHONE/CABLE
	EXISTING OVERHEAD WIRE
	PROPOSED UNDERGROUND ELECTRIC/TELEPHONE/CABLE
	PROPOSED LIGHTING CONDUIT
	EXISTING WATER
	PROPOSED WATER
	EXISTING SEWER
	PROPOSED SEWER
	EXISTING GAS
	PROPOSED GAS
	EXISTING CONCRETE/BITUMINOUS SIDEWALK
	PROPOSED CONCRETE SIDEWALK
	PROPOSED BITUMINOUS SIDEWALK
	PROPOSED CONCRETE PAD
	EXISTING LIGHT
	PROPOSED LIGHT POLE
	PROPOSED GATE VALVE
	PROPOSED THRUST BLOCK
	PROPOSED HYDRANT



UTILITIES PLAN

No.	Description	Appd	Date



DATE: AUGUST 13, 2008
 SCALE: AS SHOWN
 DESIGNED BY: GY/BLM
 DRAWN BY: SAM/KAM
 APPROVED BY: BLM
 PROJECT NO.: 2256
 FILE NO.: 2256-SITE-REST

PROPOSED RESTAURANT
CONGRESS STREET
PORTLAND, MAINE

APPLEDORE ENGINEERING
 177 CORPORATE DRIVE
 PORTSMOUTH, NEW HAMPSHIRE 03801
 (603) 433-8818
 aei@applecoreeng.com

LANDSCAPE NOTES:

PLANTING NOTES:

1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL PLANTS SHALL BE NURSERY GROWN.
2. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER PLANTING.
3. PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST REVISION.
4. ALL PLANTS MUST BE MOVED WITH THE ROOT SYSTEMS AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN BEFORE PLANTING. ALL PLANTS SHALL BE FRESHLY DUG. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEEL-ED-IN BY SETTING IN THE GROUND, AND COVERING THE BALLS WITH SOIL AND THEN WATERING. DURING TRANSPORT, ALL PLANT MATERIALS SHALL BE WRAPPED WITH WIND PROOF COVERING.
5. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
6. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS SHOWN ON THE DRAWINGS, THE GREATER NUMBER SHALL APPLY.
7. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATION.
8. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
9. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.

10. THREE (3) INCH BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN THE DETAILS. WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED.

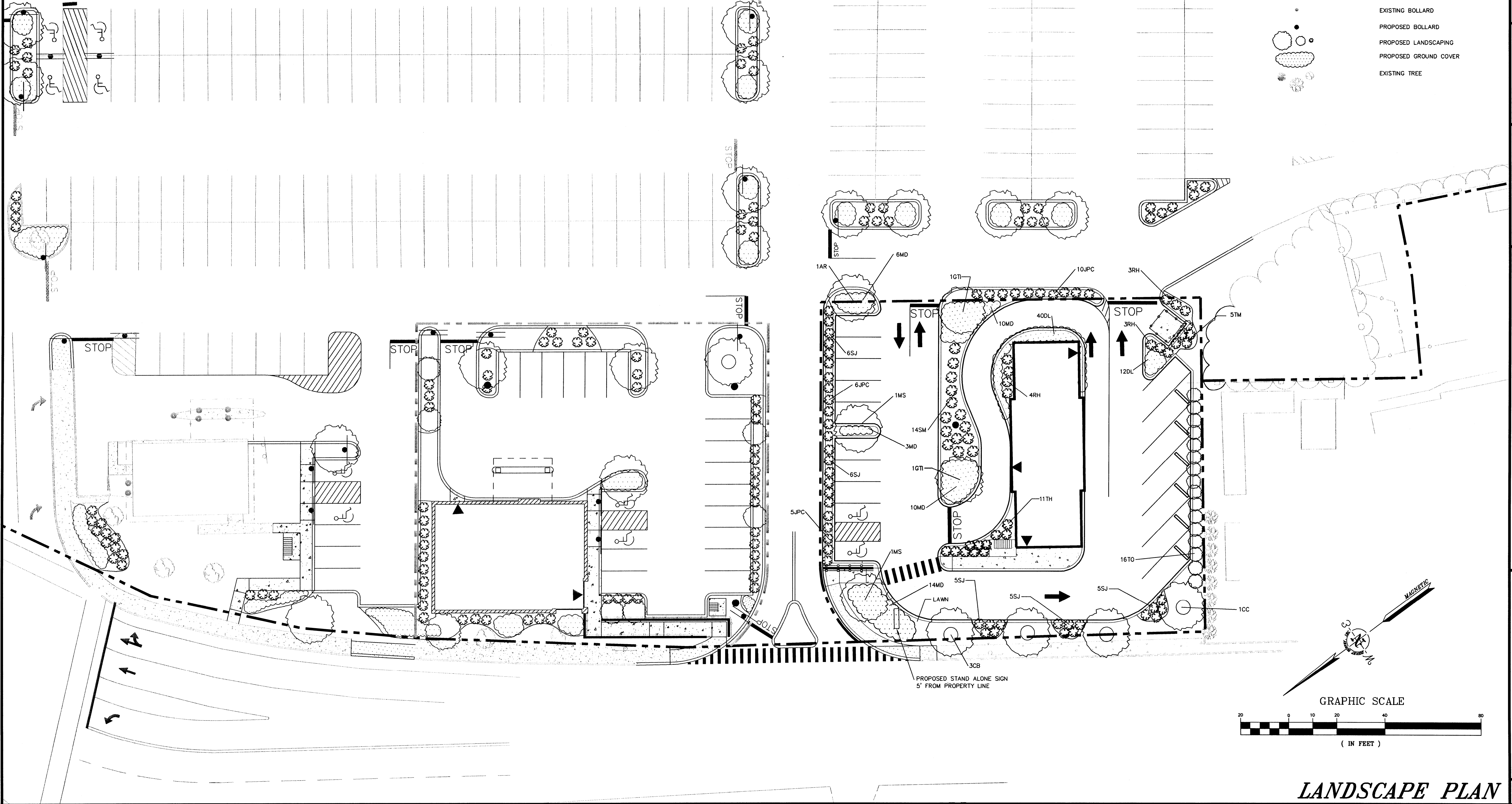
11. SEE PLANTING DETAILS FOR WEED BARRIER INFORMATION.
12. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
13. TREE STAKES SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR.
14. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH NOVEMBER 15TH. NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.
15. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO THE TOP OF CURB ELEVATION. REMOVE ALL CONSTRUCTION DEBRIS BEFORE PLACING TOPSOIL.
16. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES.
17. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON.
18. EXISTING TREES SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE REPLACED BY A 2 1/2-3" CALIPER SHADE TREE AS DIRECTED BY THE LANDSCAPE ARCHITECT. WHEN AN AREA OF EXISTING TREES IS SHOWN TO BE SAVED, AND AN AREA OF SUCH TREES HAS BEEN REMOVED, A 2 1/2-3" CALIPER SHADE TREE SHALL BE REPLACED FOR EACH 500 SF OF AREA DISTURBED.
19. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF (1) YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
21. PRE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DETAILS.

PLANTING SCHEDULE:

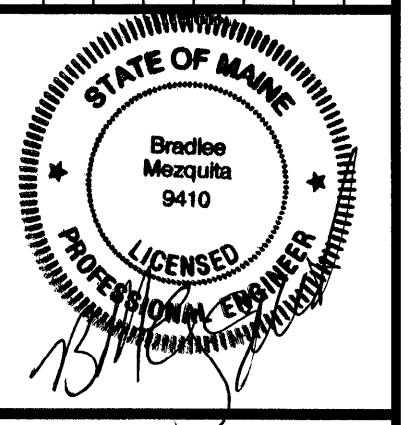
TREES:	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2 - 3" CALIPER	B & B
CC	CORYLUS COLLURNA	TURKISH FILBERT	2 1/2 - 3" CALIPER	B & B
GTI	GLEDITSIA TRICANTHOS 'SKYLINE'	SKYLINE HONEYLOCUST	2 1/2 - 3" CALIPER	B & B
MS	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	2 - 2 1/2" CALIPER	B & B
CB	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAM	2 - 2 1/2" CALIPER	B & B
AC	AMALANCHIER CANADENSIS	SHADOWLAW SERVICE BERRY	7 - 8' HT	B & B (CLUMP)
TO	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6 - 7' HT	B & B
SHRUBS:	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SM	SYRINGA MEYERI 'PALIBIN'	DWARF KOREAN LILAC	2 1/2 - 3' HT	CONTAINER
RH	RHODODENDRON HAAGA	HAAGA RHODODENDRON	2 1/2 - 3' HT	CONTAINER
RPJM	RHODODENDRON 'PJM'	PJM RHODODENDRON	2 - 2 1/2" HT	CONTAINER
TM	TAXUS MEDIA 'TAUNTON'	TAUNTON YEW	2 - 2 1/2" HT	CONTAINER
TH	TAXUS MEDIA 'HICKSI'	HICKS UPRIGHT YEW	3 - 3 1/2" HT	CONTAINER
JPC	JUNIPERUS CHINENSIS PFITZERIANA 'COMPACTA'	COMPACT PFITZER JUNIPER	18 - 24" SPREAD	CONTAINER
SJ	SPIREA JAPONICA 'MAGIC CARPET'	MAGIC CARPET SPIREA	18 - 24" HT	CONTAINER
GROUNDCOVER & PERENNIALS:	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
MD	MICROBITA DECUSSATA	RUSSIAN CYPRESS	#3	CONTAINER
PV	PANICUM VIRGATUM SHENANDOAH	SHENANDOAH SWITCH GRASS	#2	CONTAINER
DL	HEMEROCALLIS 'STELLA DORO'	STELLA DORO DAYLILY	#1	CONTAINER

LEGEND

[Symbol]	PROPERTY LINE
[Symbol]	EDGE OF WETLAND
[Symbol]	EXISTING TREE LINE
[Symbol]	PROPOSED TREE LINE
[Symbol]	EXISTING STONE WALL
[Symbol]	EXISTING FENCE
[Symbol]	PROPOSED FENCE
[Symbol]	EXISTING CONCRETE/BITUMINOUS SIDEWALK
[Symbol]	PROPOSED CONCRETE SIDEWALK
[Symbol]	PROPOSED BITUMINOUS SIDEWALK
[Symbol]	PROPOSED CONCRETE PAD
[Symbol]	EXISTING SIGN
[Symbol]	PROPOSED SIGN
[Symbol]	PROPOSED LIGHT POLE BASE
[Symbol]	EXISTING BOLLARD
[Symbol]	PROPOSED BOLLARD
[Symbol]	PROPOSED LANDSCAPING
[Symbol]	PROPOSED GROUND COVER
[Symbol]	EXISTING TREE



No.	Description	Appd	Date



DATE: AUGUST 13, 2008
 SCALE: AS SHOWN
 DESIGNED BY: GY/BLM
 DRAWN BY: SAM/KAM
 APPROVED BY: BLM
 PROJECT NO.: 2256
 FILE NO.: 2256-SITE-REST

**PROPOSED RESTAURANT
 CONGRESS STREET
 PORTLAND, MAINE**

**APPLEDORE
 ENGINEERING**
 177 CORPORATE DRIVE
 PORTSMOUTH, NEW HAMPSHIRE 03801
 (603) 433-8818
 aei@appledoreeng.com

LANDSCAPE PLAN

PROJECT NAME AND LOCATION
WESTGATE SHOPPING PLAZA
CONGRESS ST
PORTLAND, ME 04102

LATITUDE: 43°-39'-31"N
LONGITUDE: 70°-17'-53"W

DESCRIPTION
THE PROJECT CONSISTS OF REDEVELOPING AN EXISTING RESTAURANT WITH ASSOCIATED, UTILITY LANDSCAPE AND PARKING IMPROVEMENTS. THE WORK IS ANTICIPATED TO START IN JUNE, 2008, AND BE COMPLETED BY NOVEMBER, 2008.

DISTURBED AREA
THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 20.44 ACRES.

SOIL CHARACTERISTICS
BASED ON THE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, THE SOILS CONSIST OF W6 AND D6B SOILS THAT ARE POORLY DRAINED AND MODERATELY WELL DRAINED, RESPECTIVELY.

SEQUENCE OF MAJOR ACTIVITIES

1. CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
 - NEW CONSTRUCTION
 - DEVELOPMENT OF BORROW PIT AREAS
 - DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE
 - CONTROL OF DUST
2. ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPs PRIOR TO DIRECTING RUNOFF TO THEM.
3. CLEAR AND DISPOSE OF DEBRIS.
4. CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
5. GRADE AND GRAVEL ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE SEEDING IMMEDIATELY AFTER THEIR CONSTRUCTION.
6. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDING AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
7. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERM, DRAINS, DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
8. FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
9. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
10. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
11. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

NOTE: THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.

NAME OF RECEIVING WATERS

THE MAJORITY OF STORM WATER RUNOFF WILL CONVEY TO THE EXISTING ON-SITE CLOSED DRAINAGE SYSTEM WHICH EXISTS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE SEEDING IMMEDIATELY AFTER THEIR CONSTRUCTION.

EROSION AND SEDIMENT CONTROLS AND TEMPORARY STABILIZATION PRACTICES

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN SEVEN (7) CALENDAR DAYS.

STABILIZATION MEASURES TO BE USED INCLUDE:
A. TEMPORARY SEEDING.
B. MULCHING.
C. STONE RIP RAP.

DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH HAYBALE BARRIERS AND SILT FENCES. ALL STORM DRAIN INLETS SHALL BE PROVIDED WITH BARRIER FILTERS. ALL CATCHBASINS WILL BE COVERED WITH A GEOTEXTILE FABRIC PRIOR TO THE BASE PAVEMENT COURSE BEING PLACED. STONE RIPRAP SHALL BE PROVIDED AT THE OUTLETS OF DRAINAGE PIPES WHERE EROSION VELOCITIES ARE ENCOUNTERED.

ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE

REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PERMANENT STABILIZATION PRACTICES

IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, THEN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOO, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB-BASE. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, SOIL AND MOISTURE CONDITIONS. AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS. PROTECT SEEDING AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS, AND SCHEDULE SODDING, PLANTING, AND SEEDING TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDING OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS ESTABLISHED. IF NECESSARY, AREAS MUST BE SEEDING AND MULCHED AGAIN IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

(A) FOR SEEDING AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

(B) FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.

(C) FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.

(D) FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.

OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES WILL BE INSTALLED BY THE OVERALL SITE CONTRACTOR.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

1. GENERAL
 - THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN.
 - STABILIZATION OF ALL SWALES, DITCHES AND PONDS IS REQUIRED PRIOR TO DIRECTING FLOW TO THEM.
 - THE SMALLEST PRACTICAL PORTION OF THE SITE WILL BE DENUDED AT ONE TIME.
 - ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
 - ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
 - BUILT UP SEDIMENT WILL BE REMOVED FROM SACK WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE OR BALE.
 - ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
 - TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.
 - A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
 - THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILING OUT THE INSPECTION AND MAINTENANCE REPORT.
 - THE INSPECTIONS AND MAINTENANCE REPORT SHALL BE MADE ACCESSIBLE TO THE DEP UPON REQUEST AND PROVIDED TO OWNER UPON COMPLETION OF CONSTRUCTION. THE REPORT SHALL INCLUDE THE FOLLOWING:
 - NAME AND QUALIFICATIONS OF PERSON MAKING INSPECTION
 - DATE OF INSPECTION
 - MAJOR OBSERVATIONS INCLUDING REQUIRED MAINTENANCE AND FAILURE OF BMP'S
 - NOTE CORRECTION ACTION WHEN IT IS TAKEN
2. GUIDELINES FOR WINTER MULCH APPLICATION.
 - WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH.
3. MAINTENANCE
 - ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
4. VEGETATIVE PRACTICE
 - FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:
 - AFTER ROUGH GRADING OF THE SUBGRADE HAS BEEN COMPLETED AND APPROVED, THE SUB GRADE SURFACE SHALL BE SCARIFIED TO A DEPTH OF FOUR INCHES. THEN FURNISH AND INSTALL A LAYER OF LOAM PROVIDING A ROLLED FOUR INCH THICKNESS. ANY DEPRESSIONS WHICH MAY OCCUR DURING ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM, REGRADED AND REROLLED UNTIL THE SURFACE IS TRUE TO THE FINISHED LINES AND GRADES. ALL LOAM NECESSARY TO COMPLETE THE WORK UNDER THIS SECTION SHALL BE SUPPLIED BY THE SITE SUBCONTRACTOR.
 - ALL LARGE STIFF CLODS, LUMPS, BRUSH, ROOTS, DEBRIS, GLASS, STUMPS, LITTER AND OTHER FOREIGN MATERIAL AS WELL AS STONES OVER ONE INCH IN DIAMETER SHALL BE REMOVED FROM THE LOAM AND DISPOSED OF OFF SITE, AND THE LOAM SHALL BE RAKED SMOOTH AND EVEN.
 - THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO PLACING SEED. FINISH GRADING SHALL RESULT IN STRAIGHT UNIFORM GRADES AND SMOOTH, EVEN SURFACES WITHOUT IRREGULARITIES TO LOW POINTS.
 - SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE STABILIZATION OF THESE AREAS. IT SHALL BE THE SITE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE AREAS DURING THE CONSTRUCTION PERIOD AND REGRADE, LOAM AND RESEED ANY DAMAGED AREAS.
 - ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDING.
 - LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
 - FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
 - SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4 1/2 POUNDS AND 5 1/2 POUNDS PER INCH OF WIDTH.

B. SILT SACK

- A. SACK SHALL BE INSTALLED WITHIN CATCHBASIN, MAKING SURE EMPTY STRAPS ARE LAID FLAT OUTSIDE THE BASIN.
- B. SACK SHALL FIT TIGHTLY WITHIN THE BASIN TO PREVENT SEDIMENT FROM GOING THROUGH.
- C. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINSTORM. REPAIRS MADE AS NECESSARY.
- D. SEDIMENT SHOULD BE REMOVED FROM THE DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE-THIRD THE DEPTH OF THE TRAP.
- E. SILT SACK SHALL BE REMOVED UPON THE COMPLETION OF PROJECT.

SILT FENCE

- A. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	TEST	REQUIREMENTS
FILTERING EFFICIENCY	VTM-51	75% MINIMUM
TENSILE STRENGTH AT 20% MAXIMUM ELONGATION*	VTM-52	EXTRA STRENGTH 50 LB/LIN IN (MIN)
		STANDARD STRENGTH 30 LB/LIN IN (MIN)
FLOW RATE	VTM-51	0.3 GAL/SF/MIN (MIN)

* REQUIREMENTS REDUCED BY 50 PERCENT AFTER SIX (6) MONTHS OF INSTALLATION.

SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX (6) MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES F TO 120 DEGREES F.

- B. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED THIRTY-SIX (36) INCHES.
- C. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT POSTS, WITH A MINIMUM SIX (6) INCH OVERLAP, AND SECURELY SEALED.
- D. POSTS SHALL BE SPACED A MAXIMUM OF TEN (10) FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 16 INCHES). WIRE MESH STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- E. POSTS FOR SILT FENCES SHALL BE EITHER 4-INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
- F. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.
- G. A TRENCH SHALL BE EXCAVATED APPROXIMATELY FOUR (4) INCHES WIDE AND FOUR (4) INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- H. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE (1) INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND NO MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACES.
- I. THE "STANDARD STRENGTH" FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND EIGHT (8) INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- J. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM (I) APPLYING.
- K. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- L. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAS BEEN PERMANENTLY STABILIZED.
- M. SILTENCE SHALL BE KEPT IN AND OVERLAPPED AT JOINTS.

C. MULCHING

1. TIMING
IN ORDER FOR MULCH TO BE EFFECTIVE, IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO (2) TYPES OF STANDARDS WHICH SHALL BE USED TO ASSURE THIS.

A. APPLY MULCH PRIOR TO ANY STORM EVENT.
THIS IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE IN CONCORD, TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.

B. REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD.
THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON A AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROFESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

2. GUIDELINES FOR WINTER MULCH APPLICATION.

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3. MAINTENANCE

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- THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO PLACING SEED. FINISH GRADING SHALL RESULT IN STRAIGHT UNIFORM GRADES AND SMOOTH, EVEN SURFACES WITHOUT IRREGULARITIES TO LOW POINTS.
- SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE STABILIZATION OF THESE AREAS. IT SHALL BE THE SITE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE AREAS DURING THE CONSTRUCTION PERIOD AND REGRADE, LOAM AND RESEED ANY DAMAGED AREAS.
- ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDING.
- LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
- FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
- SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4 1/2 POUNDS AND 5 1/2 POUNDS PER INCH OF WIDTH.

SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH.

HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH THAT BLOWS OR WASHES AWAY SHALL BE REPLACED IMMEDIATELY AND ANCHORED USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL. UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

THE SITE SUBCONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED, INCLUDING CUTTING, AS SPECIFIED HEREIN AFTER MAINTENANCE AND PROTECTION.

UNLESS OTHERWISE APPROVED, SEEDING SHALL BE DONE DURING THE APPROXIMATE PERIODS OF EARLY SPRING TO SEPTEMBER 30, WHEN SOIL CONDITIONS AND WEATHER ARE SUITABLE FOR SUCH WORK.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	POUNDS PER ACRE	MINIMUM	MINIMUM
CREeping RED FESCUE	50	85%	96%
KENTUCKY BLUE GRASS	50	85%	97%
	100	GERMINATION	PURITY

SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)

CREeping RED FESCUE	20	85%	96%
TALL FESCUE	20	85%	96%
RED TOP	42	80%	95%

IN NO CASE SHALL THE WEED CONTENT EXCEED 1 PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PLANTINGS AFTER SEPTEMBER TO EARLY SPRING AND FOR TEMPORARY PROTECTION OF DISTURBED AREAS:

- 0 FOLLOW ABOVE SLOPE, LOAM DEPTH AND GRADING REQUIREMENTS.
 - 0 FERTILIZER SHALL BE SPREAD AND WORKED INTO THE SURFACE AT A RATE OF 300 POUNDS PER ACRE.
 - 0 MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:
 - WINTER RYE (FALL SEEDING) 2.5 LBS./1,000 S.F.
 - OATS (SPRING SEEDING) 2 LBS./1,000 S.F.
 - MULCH 1.5 TONS/ACRE
1. STORM DRAIN INLET PROTECTION
1. STRAW/HAY BALE INLET STRUCTURE
 - A. BALES SHALL BE EITHER WIRE BOUND OR STRING TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
 - B. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
 - C. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF BALE TO A MINIMUM DEPTH OF FOUR (4) INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
 - D. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO (2) STAKES OR REBARS DRIVEN THROUGH THE BALE.
 - E. LOOSE STRAW/HAY SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
 - F. STABILIZED CONSTRUCTION ENTRANCE
 1. SPECIFICATIONS
 - A. AGGREGATE SIZE: USE TWO (2) INCHES STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - B. AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.
 - C. WIDTH: TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS.
 - D. LENGTH: AS REQUIRED, BUT NOT LESS THAN FIFTY (50) FEET.
 - E. GEOTEXTILE: TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
 - G. WINTER CONSTRUCTION NOTES (NOVEMBER 1 - APRIL 15)
 - ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% GROWTH BY OCTOBER 15TH OR WHICH ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 2 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORING NETTING ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
 - B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% GROWTH BY OCTOBER 15TH OR WHICH ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR DESIGN FLOW CONDITIONS.
 - C. AFTER NOVEMBER 1st INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 4" OF SUBBASE COURSE (MOOT TYPE D AGGREGATE).

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE AND SILT FENCES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY, EROSION CONTROL BLANKETS AND HAYBALE BARRIERS AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

WASTE DISPOSAL

- A. WASTE MATERIALS
 - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- B. HAZARDOUS WASTE
 - ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- C. SANITARY WASTE
 - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION

- A. MATERIAL MANAGEMENT PRACTICES
 - THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
 - GOOD HOUSEKEEPING:
 - THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:
 - 0 AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
 - 0 ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - 0 LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA.
 - 0 MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - 0 THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
 - 0 SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - 0 WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

HAZARDOUS PRODUCTS:

THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

- 0 PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- 0 ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
- 0 SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

B. PRODUCT SPECIFICATION PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS:

CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA ON SITE.

C. SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- 0 MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- 0 MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST OR PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- 0 ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- 0 THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 0 SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- 0 THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT RECURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED.
- 0 THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

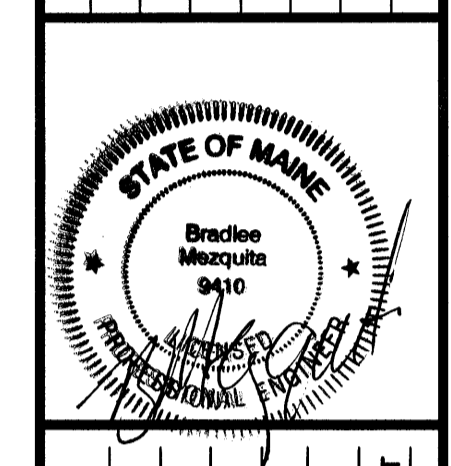
DUST CONTROL

A. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL METHODS SHALL INCLUDE, BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ADJUTING AREAS.

ALLOWABLE NON-STORMWATER DISCHARGES

- 0 DISCHARGES FROM FIRE-FIGHTING ACTIVITIES
- 0 FIRE HYDRANT FLUSHINGS
- 0 WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
- 0 WATER USED TO CONTROL DUST
- 0 PORTABLE WATER INC. UNCONTAMINATED WATER LINE FLUSHINGS
- 0 ROUTINE EXTERNAL BUILDING WASH DOWN - NO DETERGENTS
- 0 PAVEMENT WASH WATERS - NO SPILLS OR DETERGENTS
- 0 UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATE
- 0 UNCONTAMINATED GROUND WATER OR SPRING WATER
- 0 FOUNDATION OR FOOTING DRAINS - NOT CONTAMINATED
- 0 UNCONTAMINATED EXCAVATION DEWATERING
- 0 LANDSCAPE IRRIGATION

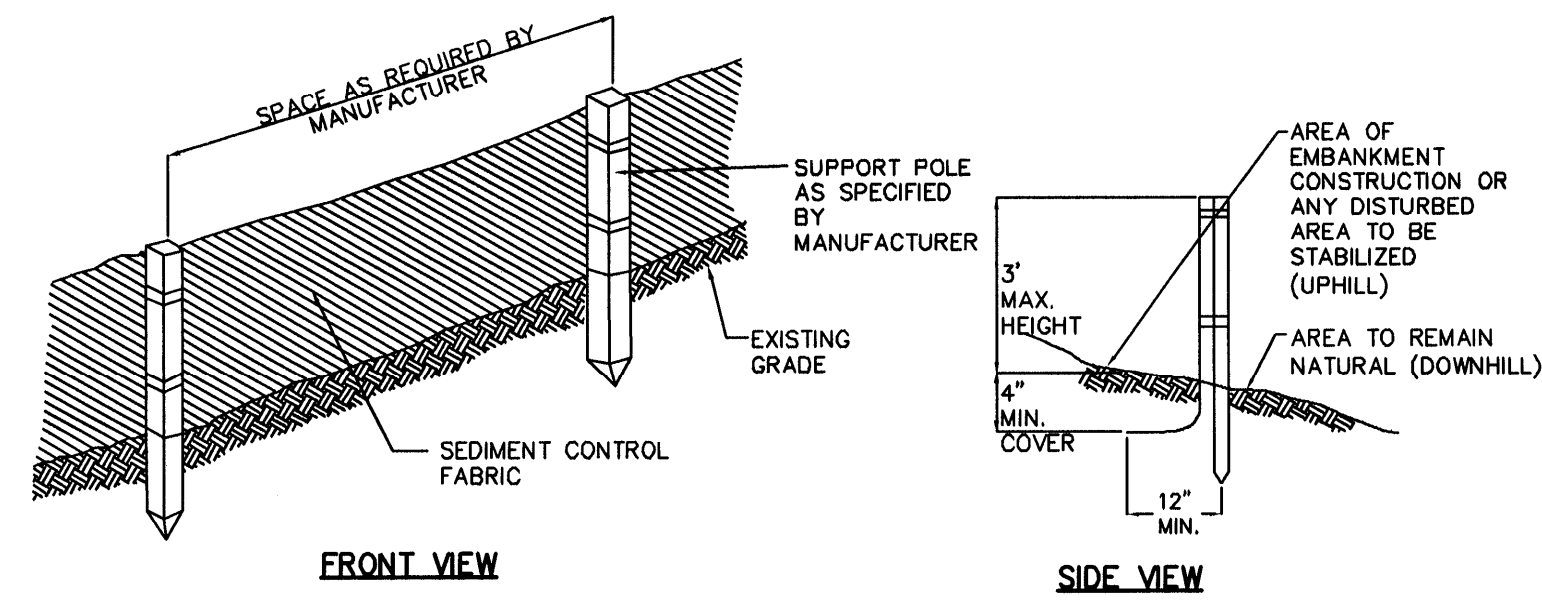
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DRAWN BY: SAM/KAM
APPROVED BY: BLM
PROJECT NO: 2256
FILE NO: 2256-CDETAILS-REST

PROPOSED RESTAURANT
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PORTLAND, MAINE

APPLEDORE ENGINEERING ONE
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NOTES:
1. SEE EROSION CONTROL NOTES FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.

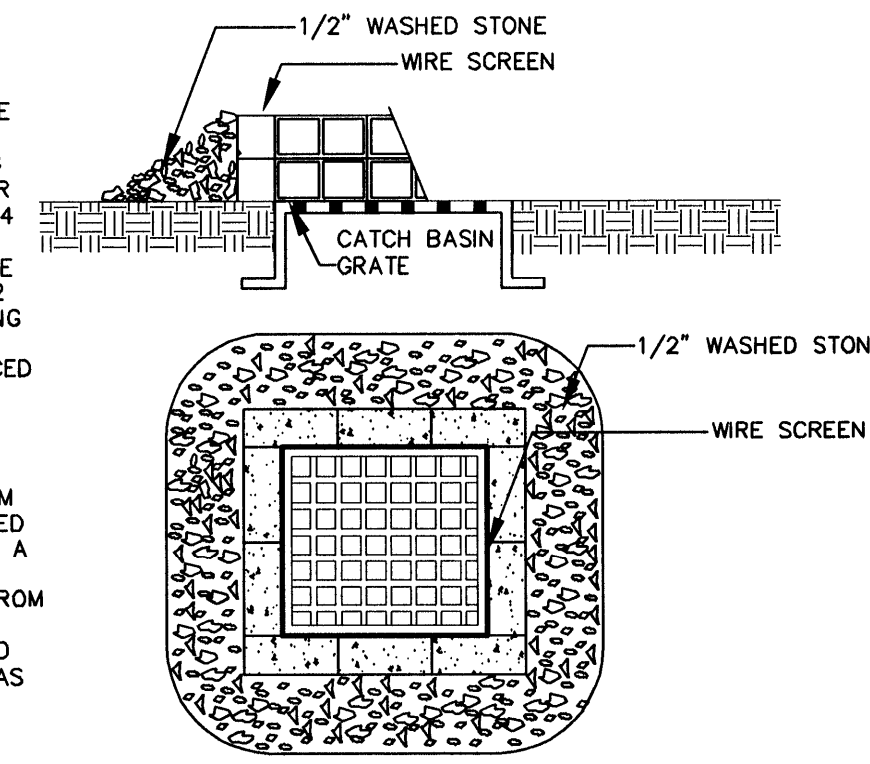
SILT FENCE
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

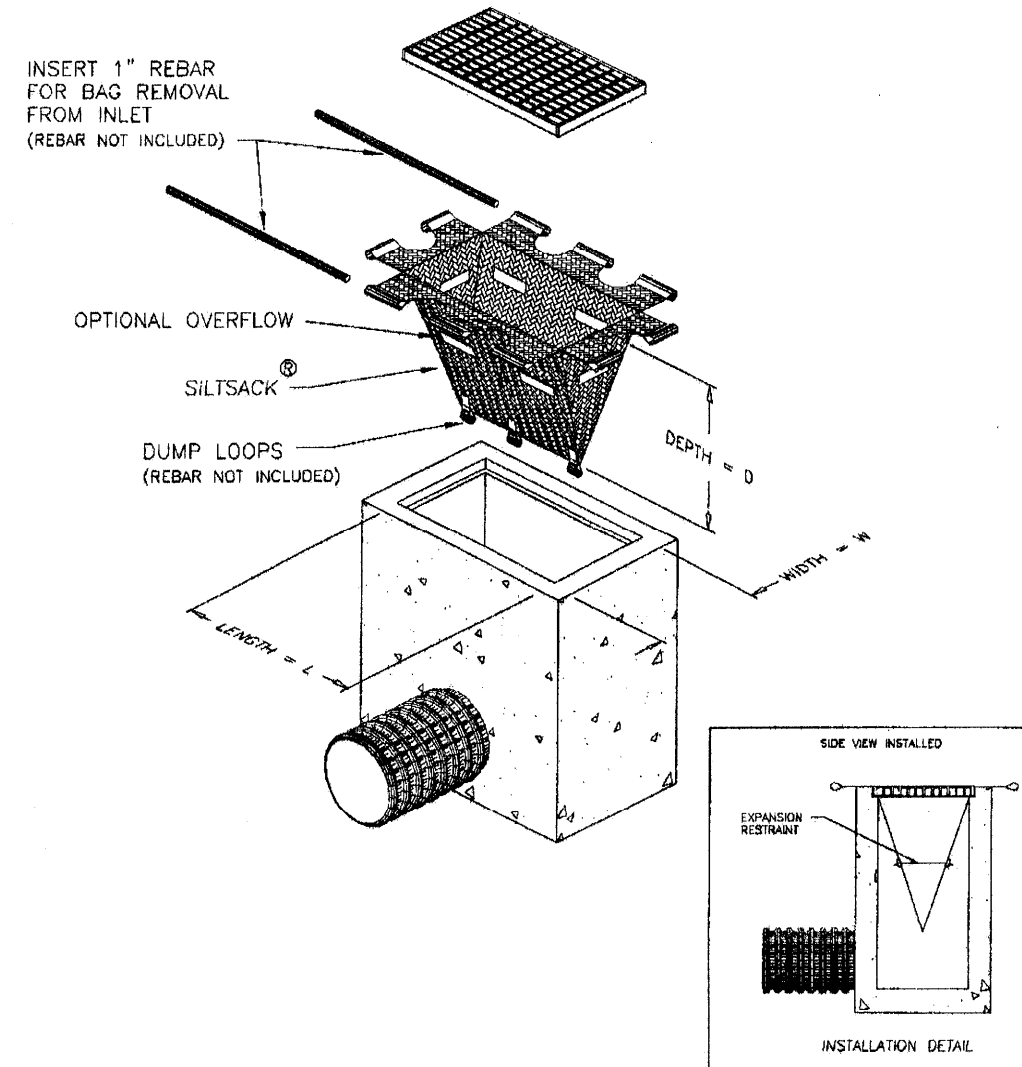
1. CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDE IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 24 INCHES HIGH.
2. HARDWARE CLOTH OR WIRE MESH SHOULD BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
3. SEWER STONE OR CLEAN COARSE AGGREGATE SHOULD BE PLACED AGAINST THE BLOCK TO THE TOP OF THE BARRIER.

MAINTENANCE:

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.



INLET PROTECTION BARRIER
NOT TO SCALE



SILT SACK

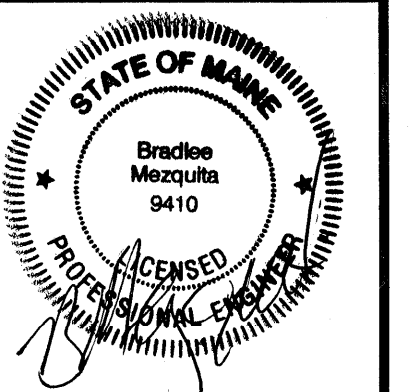
- A. SACK SHALL BE INSTALLED WITHIN CATCHBASIN, MAKING SURE EMPTY STRAPS ARE LAID FLAT OUTSIDE THE BASIN.
- B. SACK SHALL FIT TIGHTLY WITHIN THE BASIN TO PREVENT SEDIMENT FROM GOING THROUGH ANY GAPS.
- C. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINSTORM AND REPAIRS MADE AS NECESSARY.
- D. SEDIMENT SHOULD BE REMOVED FROM THE DEVICES AFTER THE SEDIMENT HAS REACHED MAXIMUM OF ONE-THIRD THE DEPTH OF THE TRAP.
- E. SILT SACK SHALL BE REMOVED UPON THE COMPLETION OF PROJECT.

NOTES:

- 1. COORDINATE INLET PROTECTION WITH APPROVED MANUFACTURER AND SITE ENGINEER.
- 2. SILT SACKS SHALL BE USED IN CATCHBASIN WHERE PATH IS WITHIN VEHICULAR TRAVEL WAY.

SILT SACK
NOT TO SCALE

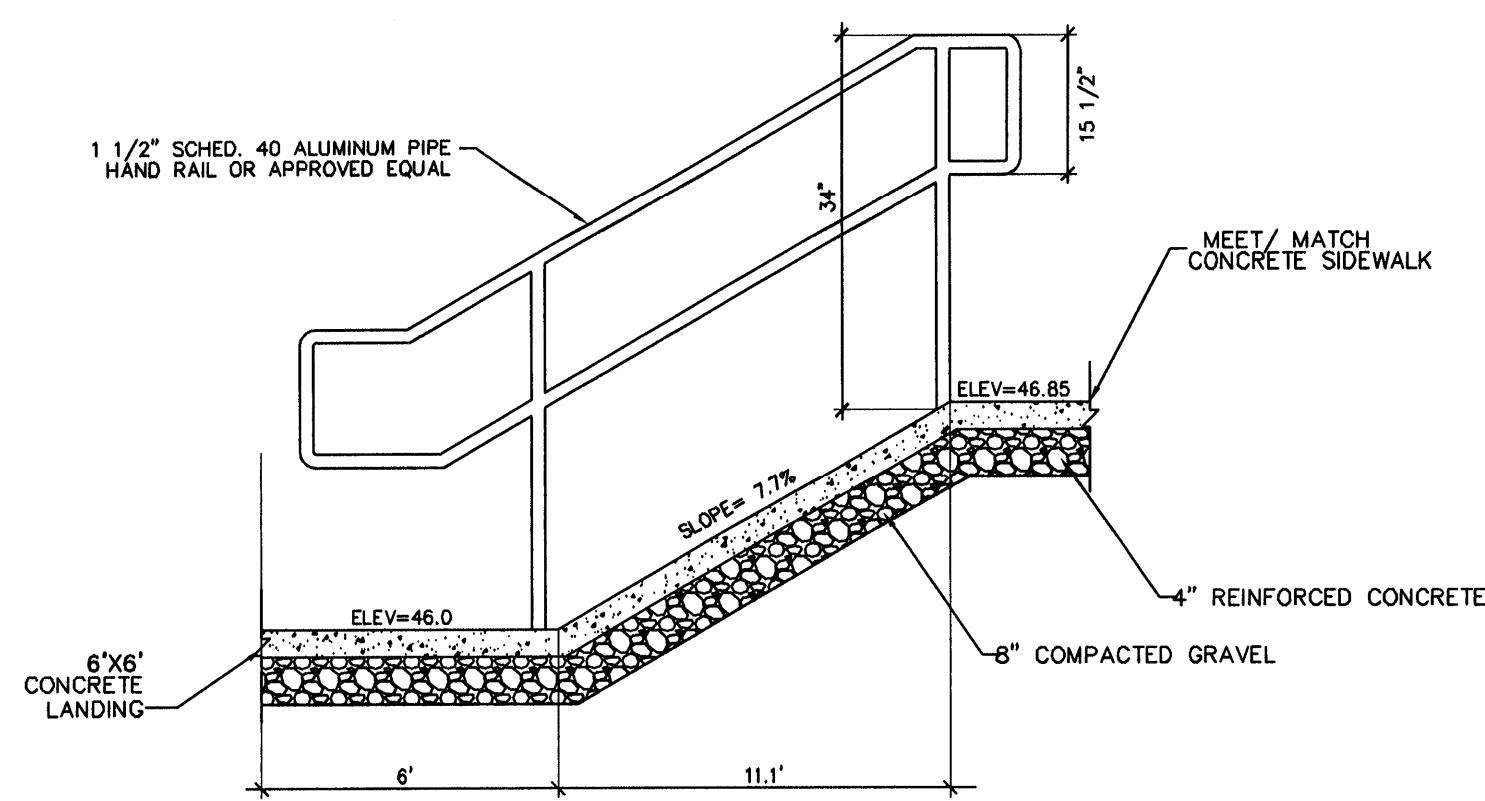
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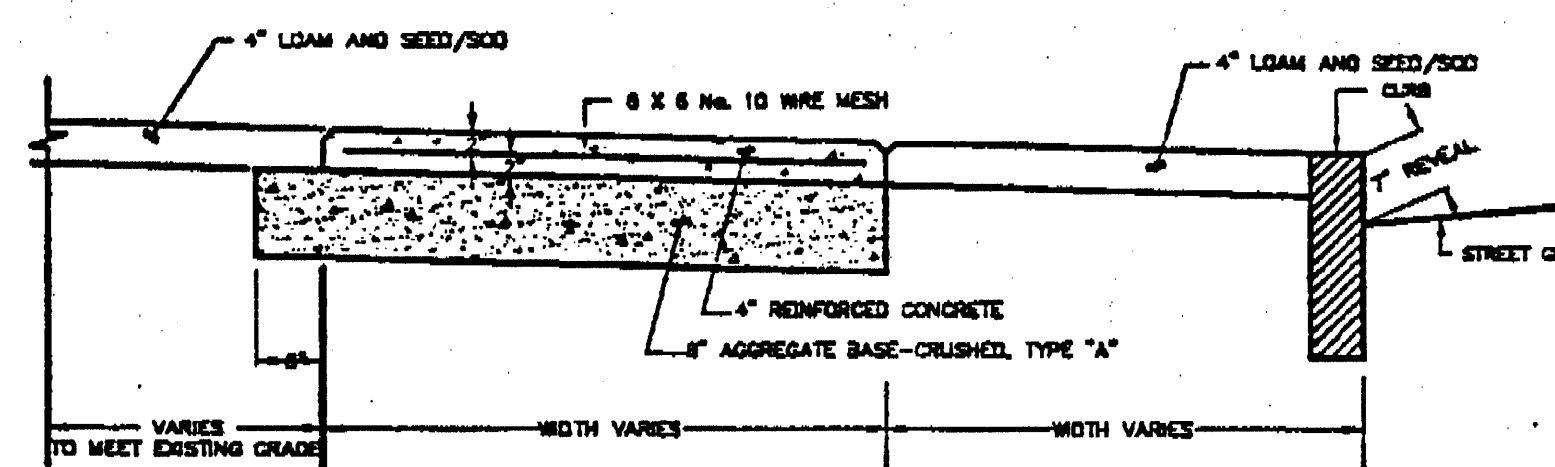
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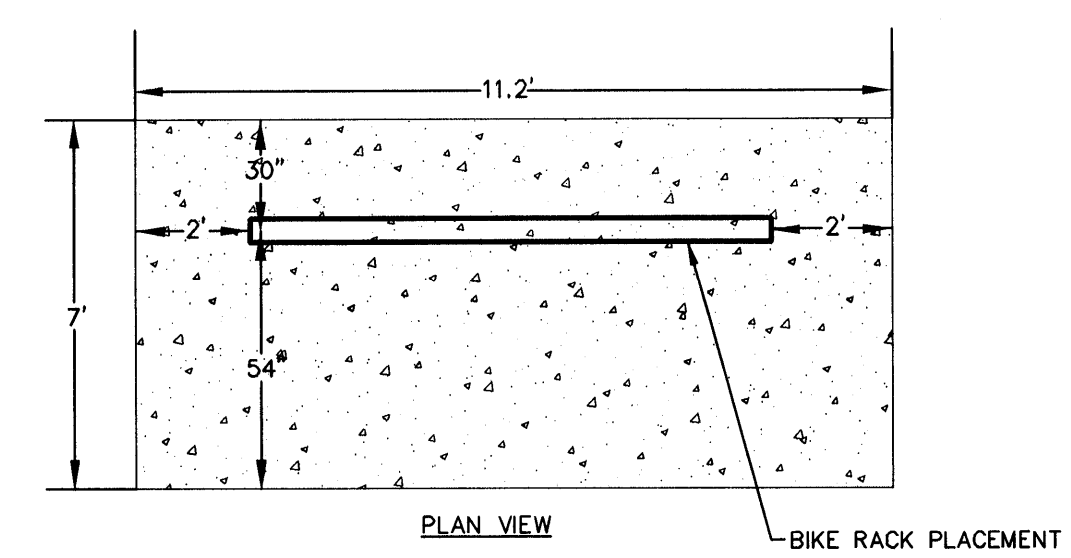


HAND RAIL
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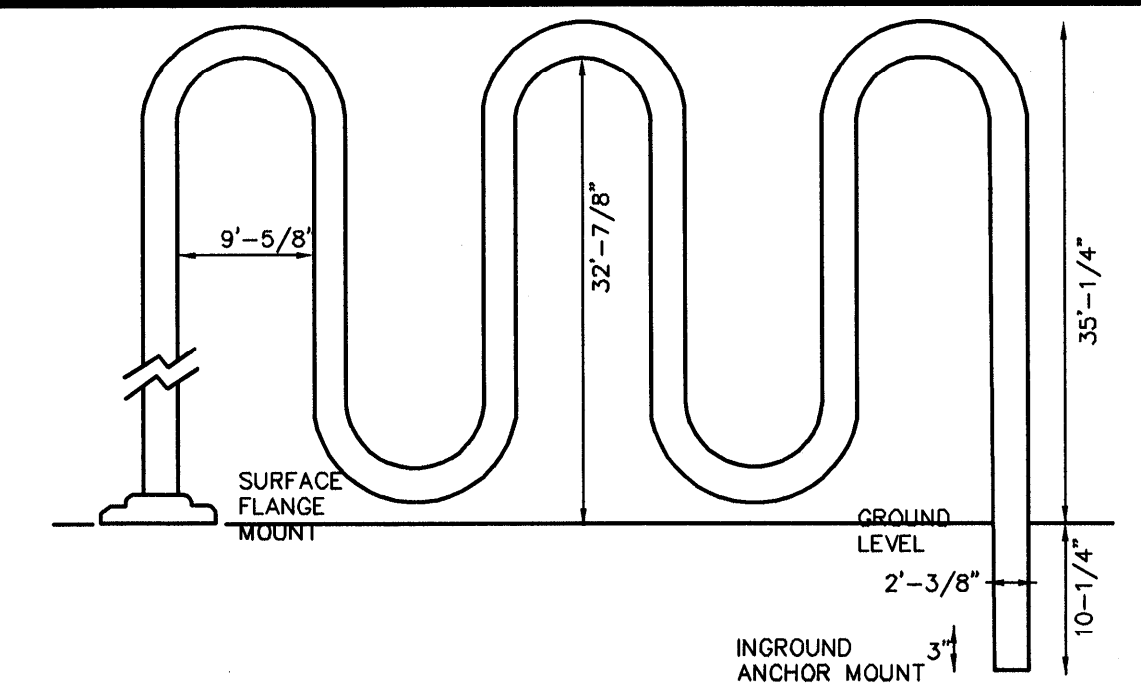


SECTION AT SIDEWALK
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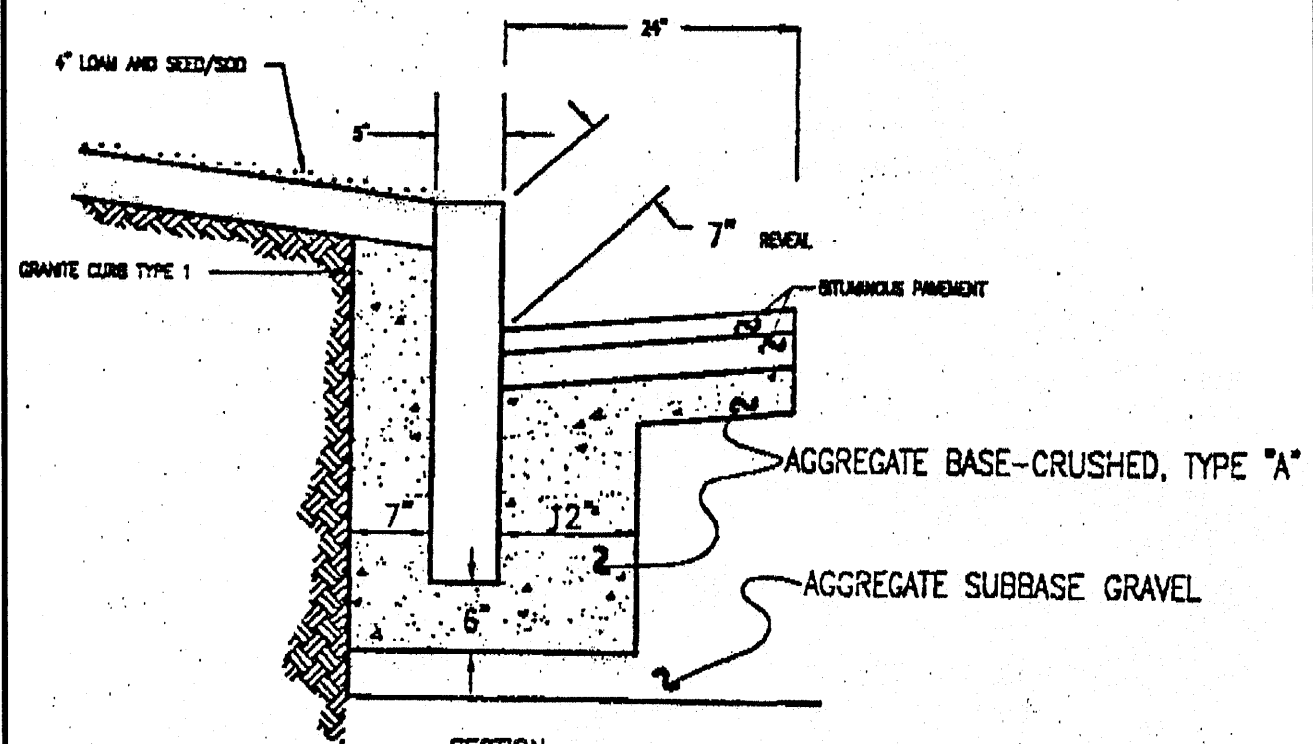
FIGURE I - 13
CONCRETE SIDEWALK AND DRIVEWAY CONSTRUCTION



BIKE RACK AND PAD DETAIL
NOT TO SCALE



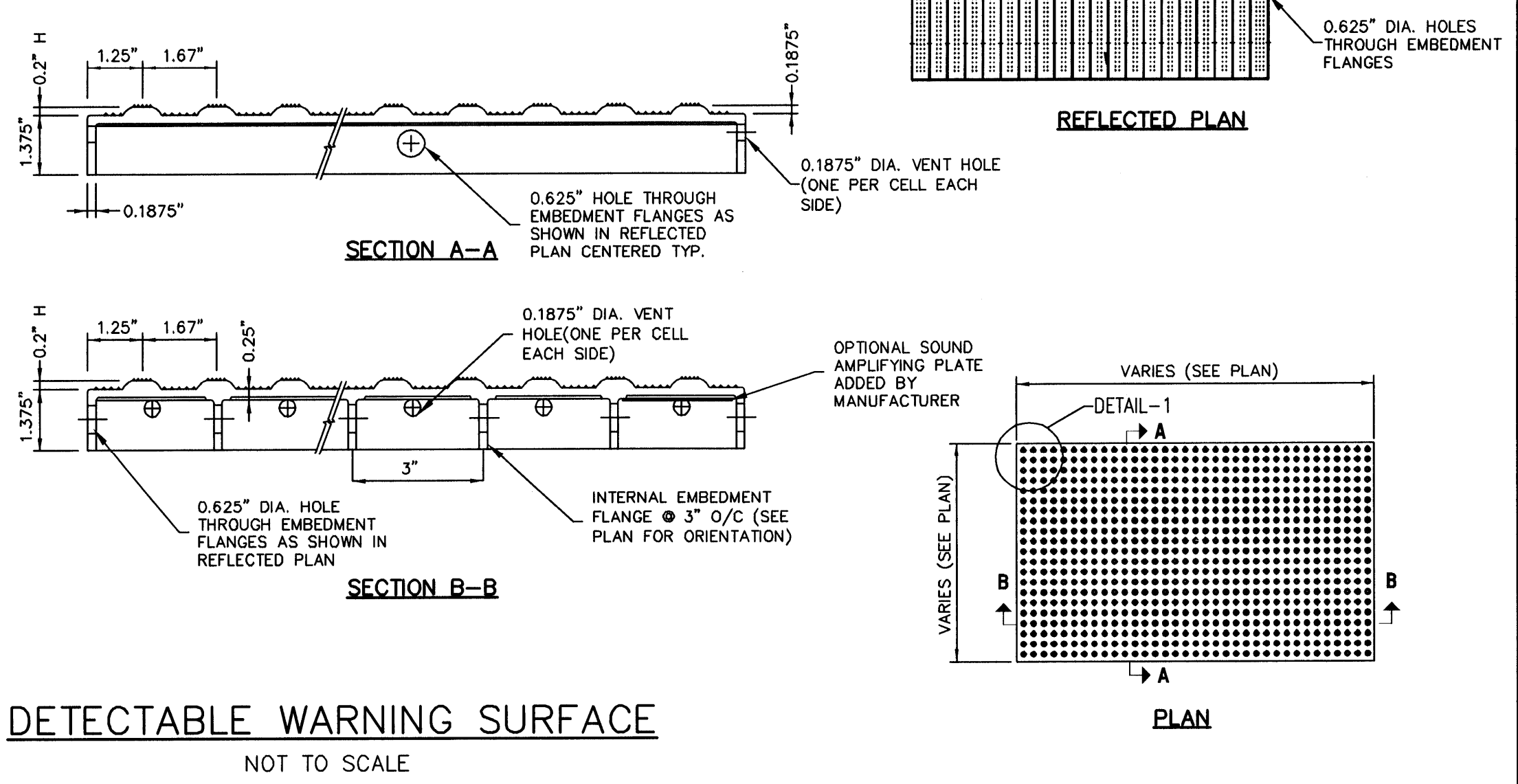
TYPICAL TIPDOWN CURB INSTALLATION
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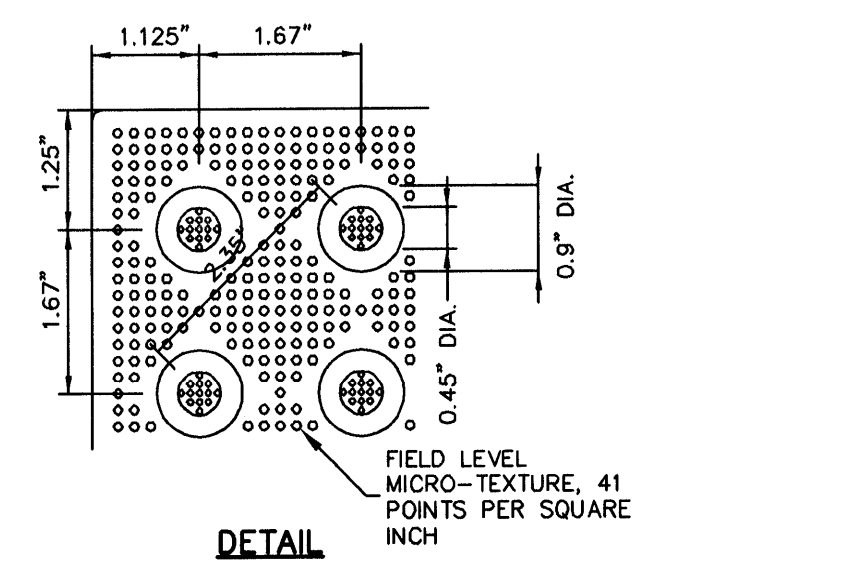
INSTALLATION OF CURB
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FIGURE I - 15
CURB INSTALLATION

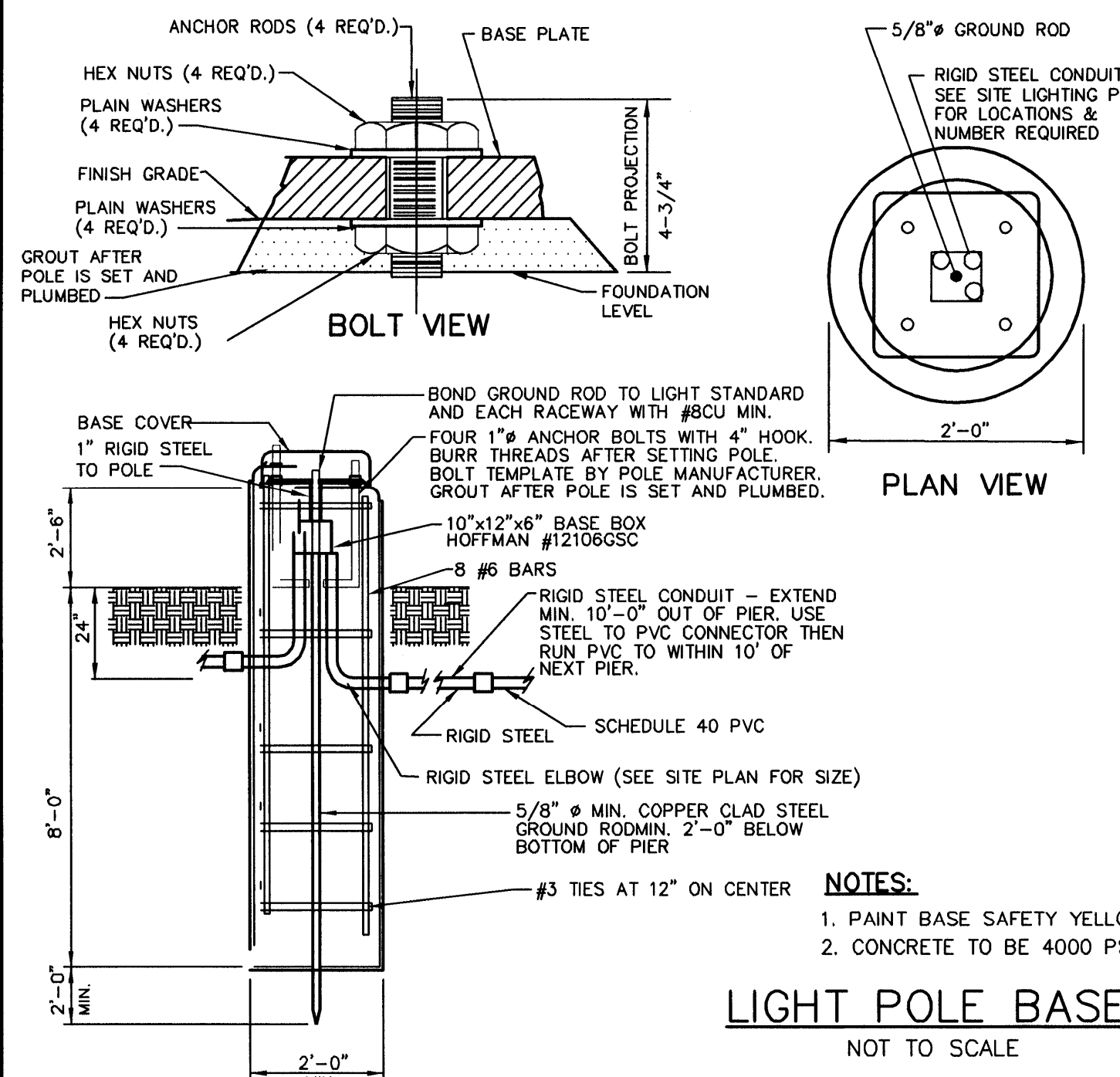
- NOTE:**
1. DETECTABLE WARNING SYSTEM TO BE ARMOR TILE OR APPROVED EQUAL.
 2. DETECTABLE WARNING SHOULD MEET ALL ADA REQUIREMENTS.
 3. CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP (MID-WALK "IN-LINE" RAMPS ONLY NEED DETECTABLE WARNINGS AT WALK/PARKING TRANSITION).
 4. DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 1.67 INCHES.
 5. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT).



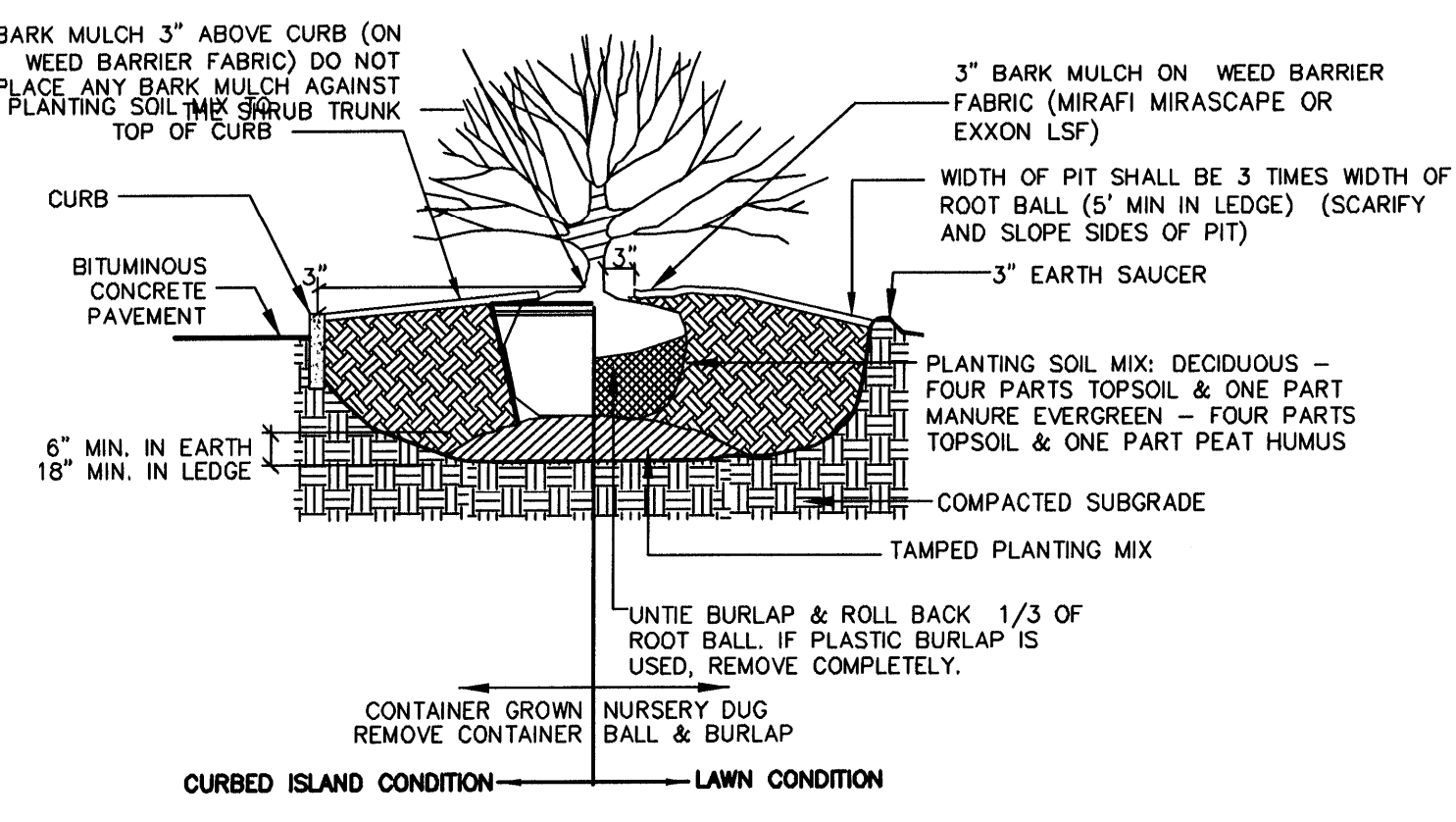
DETECTABLE WARNING SURFACE
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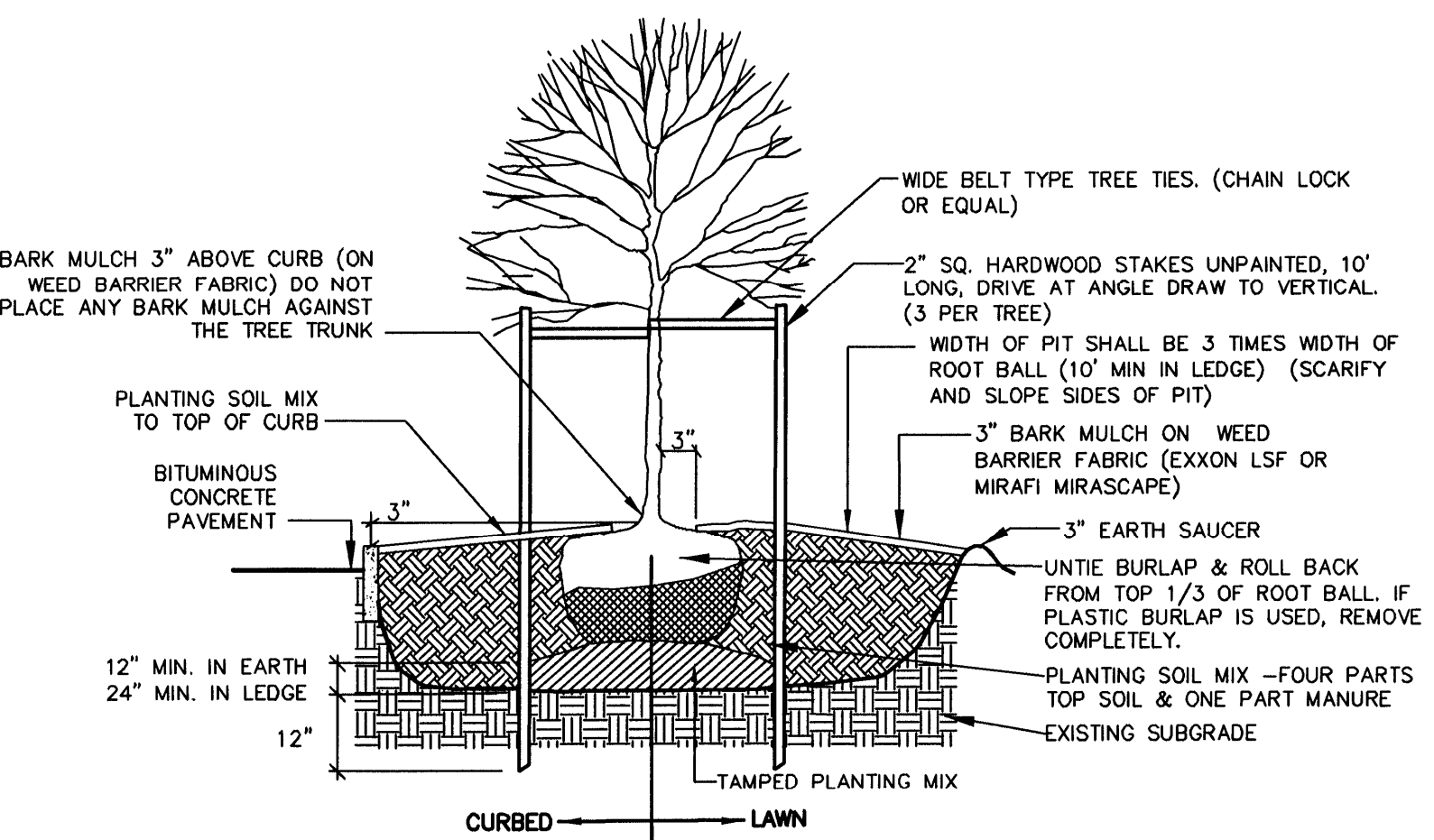
DETAIL



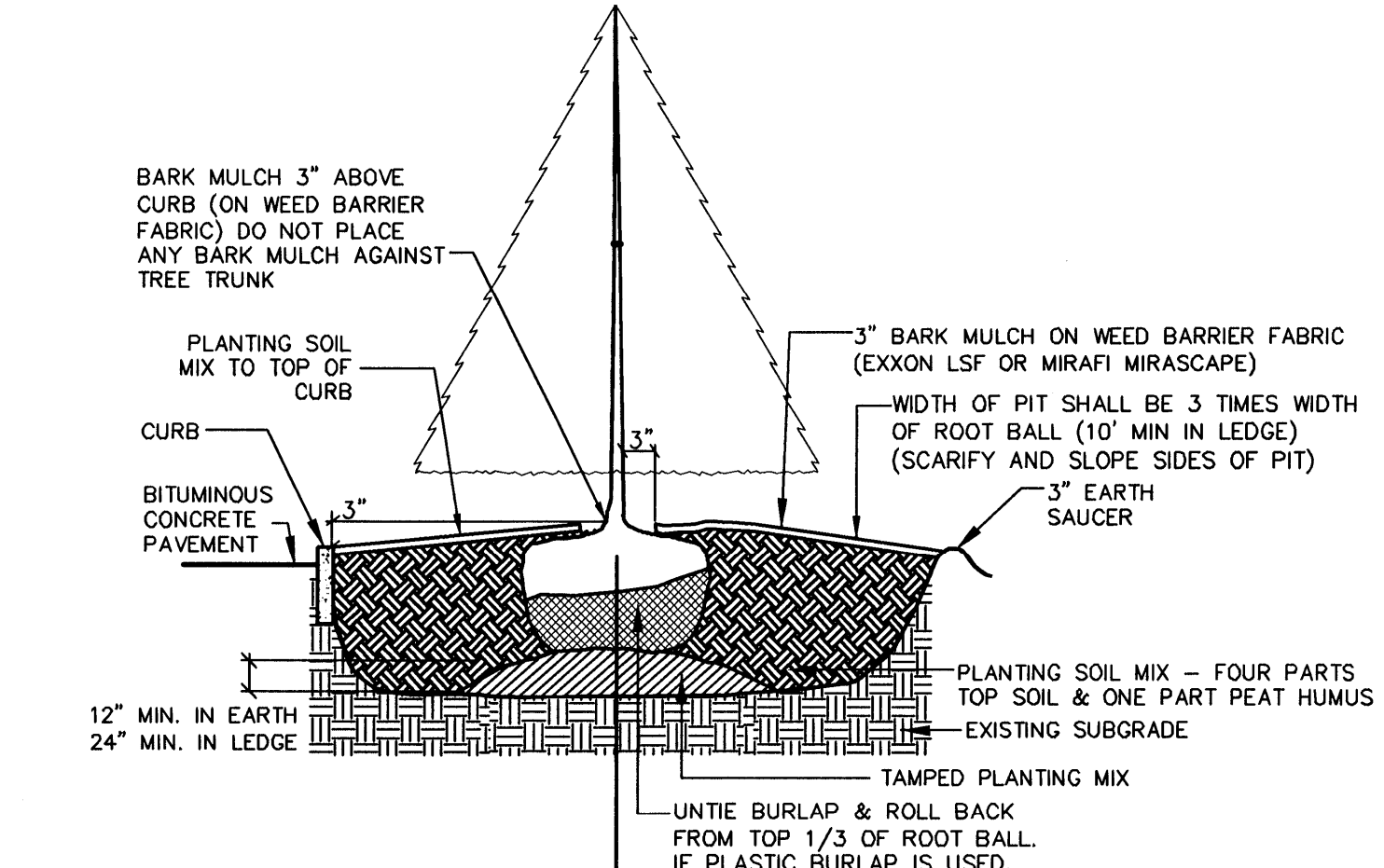
LIGHT POLE BASE
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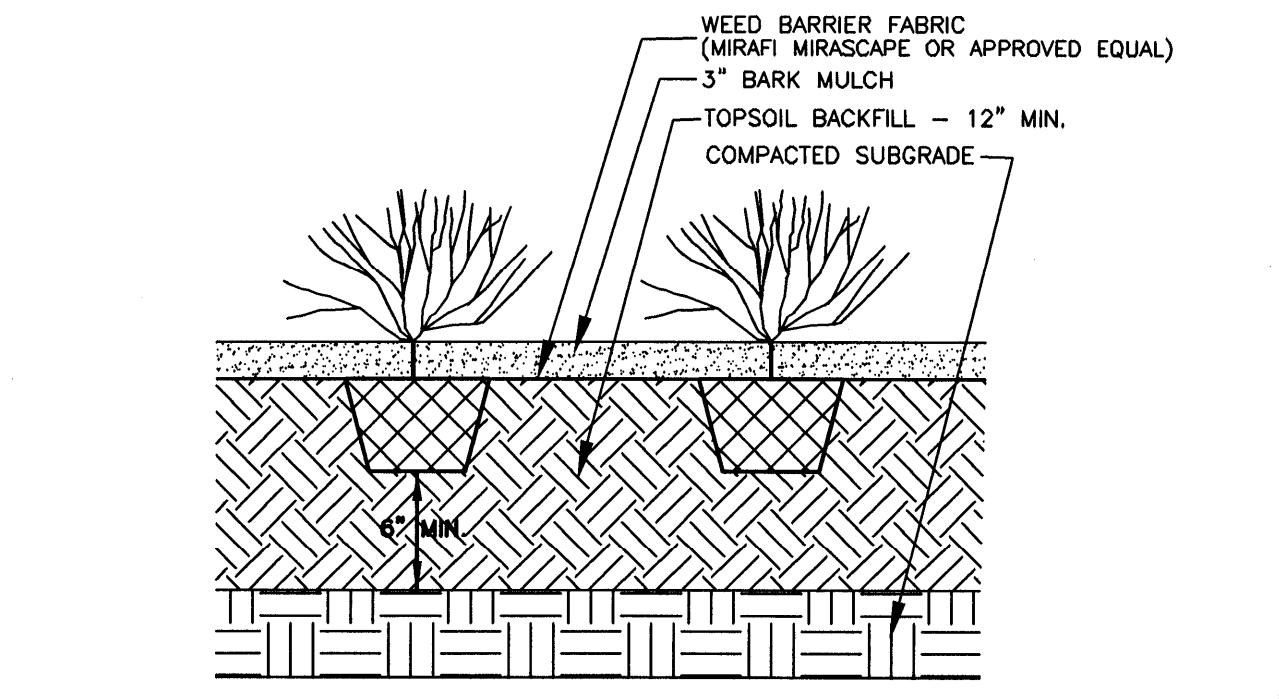
SHRUB PLANTING
NOT TO SCALE



DECIDUOUS PLANTING
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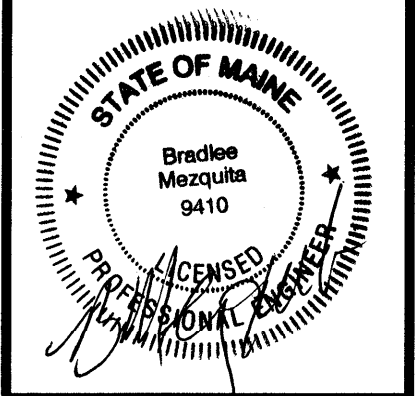


EVERGREEN TREE PLANTING
NOT TO SCALE



PERENNIAL PLANTING
NOT TO SCALE

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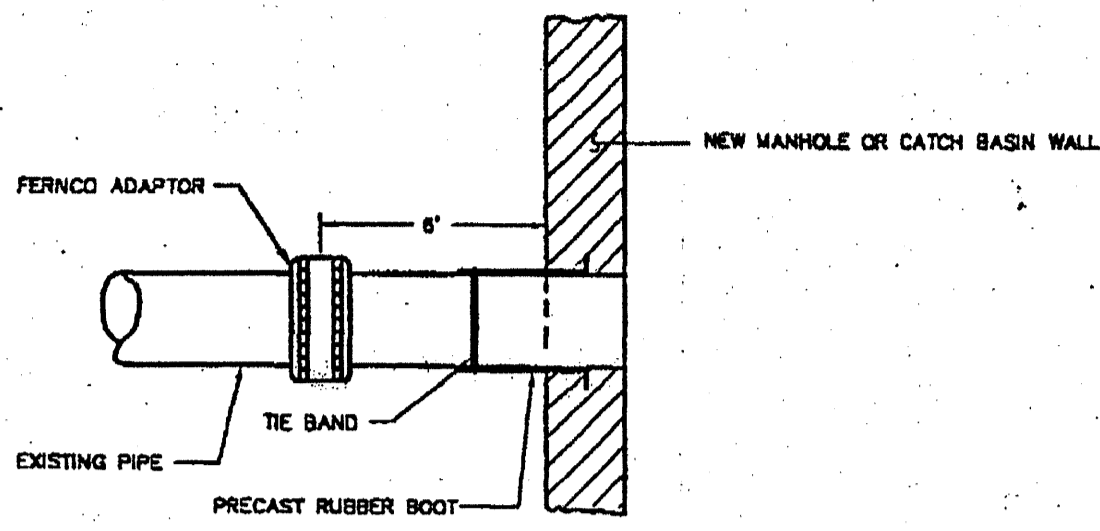


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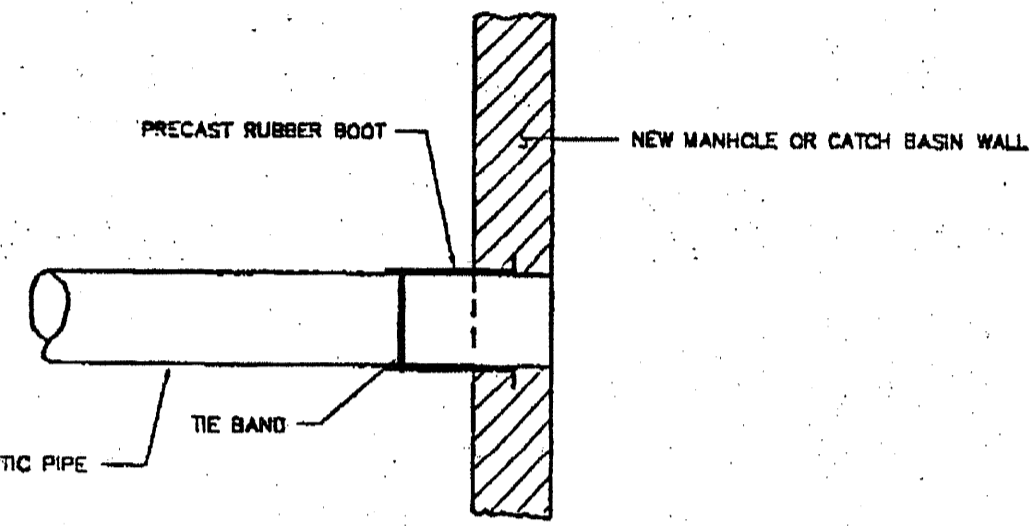
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NOTE:
REMOVE WATERPROOFING FROM
STRUCTURE BEFORE APPLYING MORTAR.
WATERPROOF AGAIN AFTER MORTAR
HAS SET.

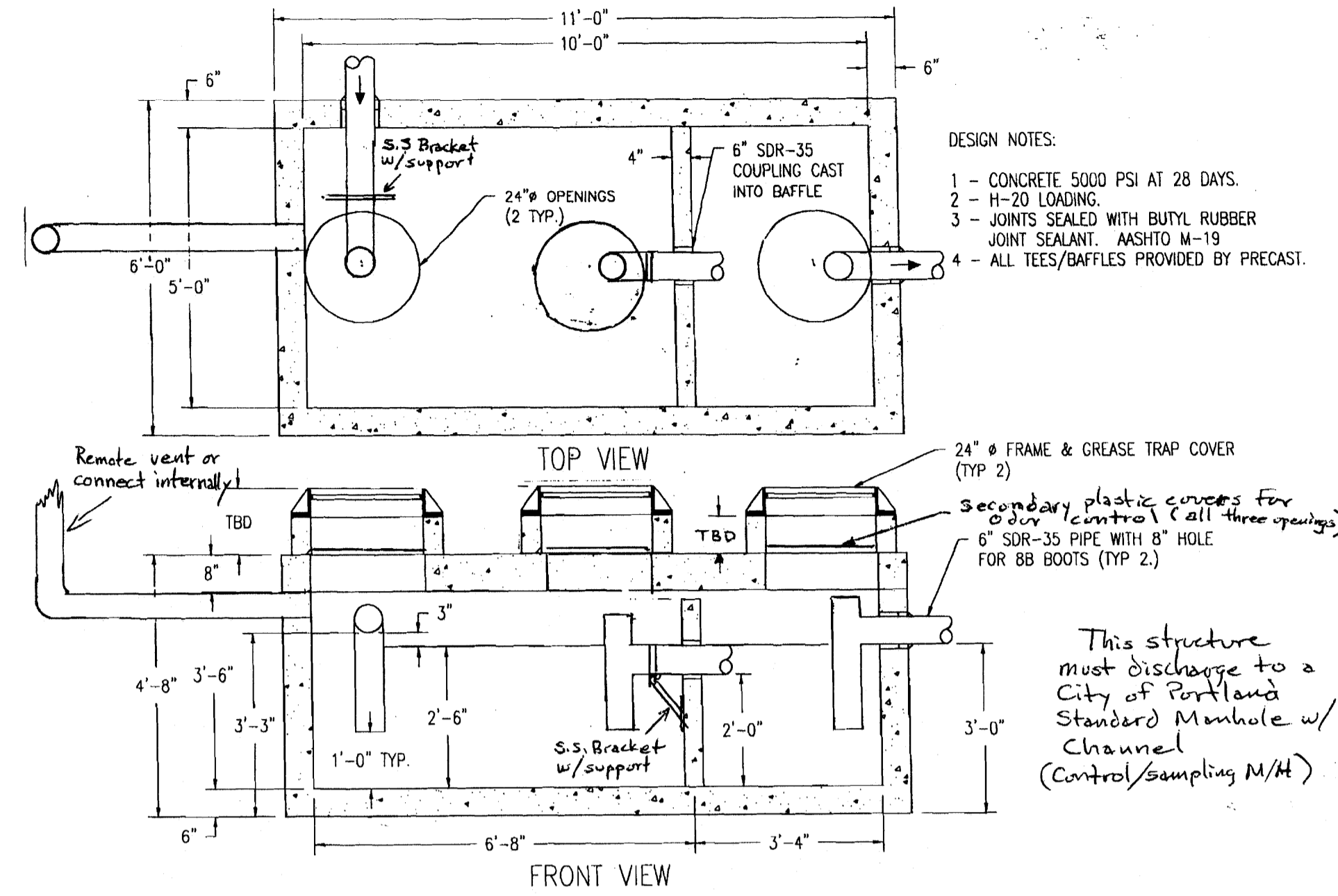


METHOD 1 - EXISTING PIPE INTO NEW STRUCTURE



METHOD 2 - NEW CONSTRUCTION

FIGURE II - 16
PIPE CONNECTION DETAILS



DESIGN NOTES:
1 - CONCRETE 5000 PSI AT 28 DAYS.
2 - H-20 LOADING.
3 - JOINTS SEALED WITH BUTYL RUBBER
JOINT SEALANT, ASHTO M-19
4 - ALL TEES/Baffles PROVIDED BY PRECAST.

This structure
must discharge to a
City of Portland
Standard Manhole w/
Channel
(Control/Sampling M/H)

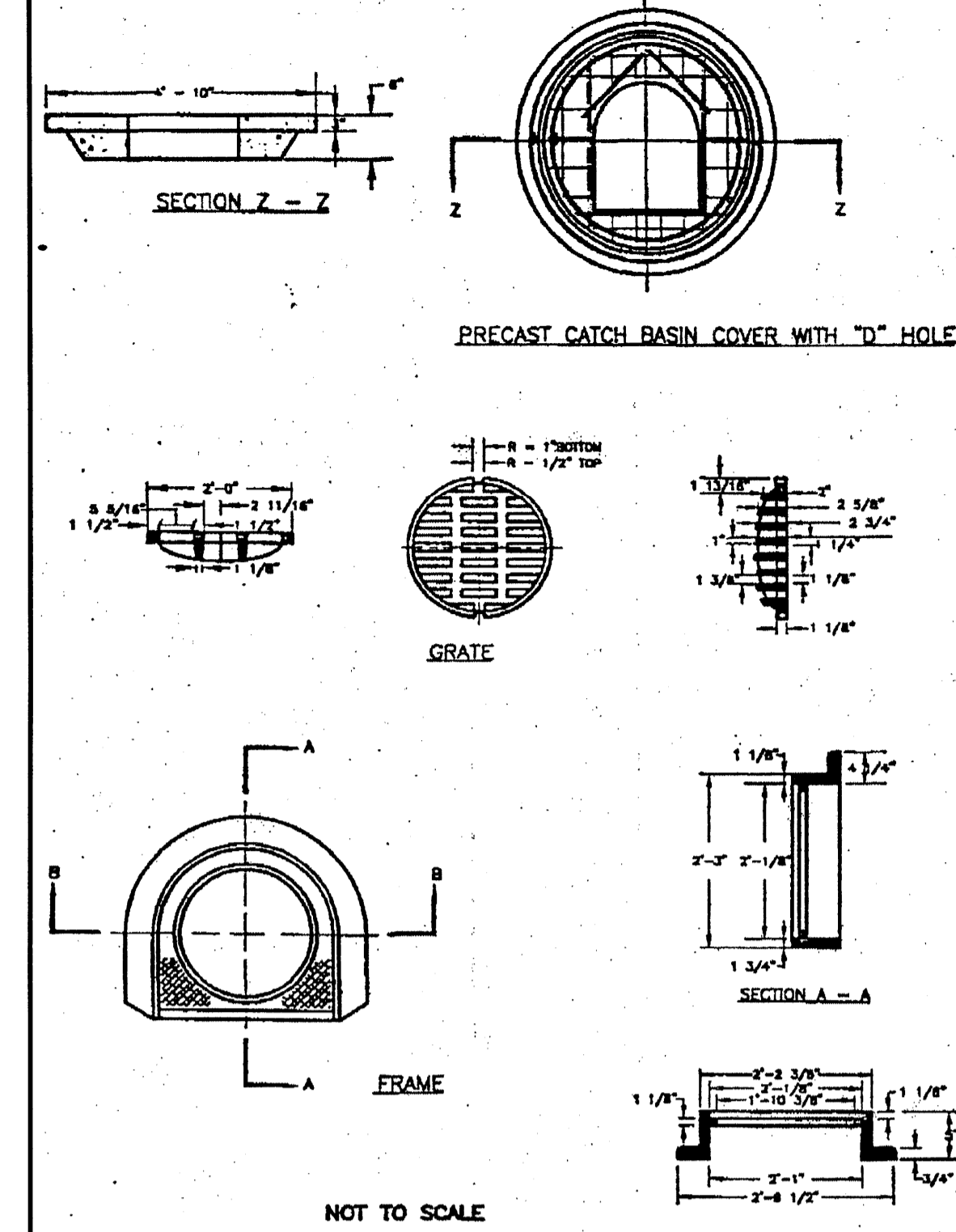


FIGURE II - 7
CATCH BASIN FRAME AND GRATE

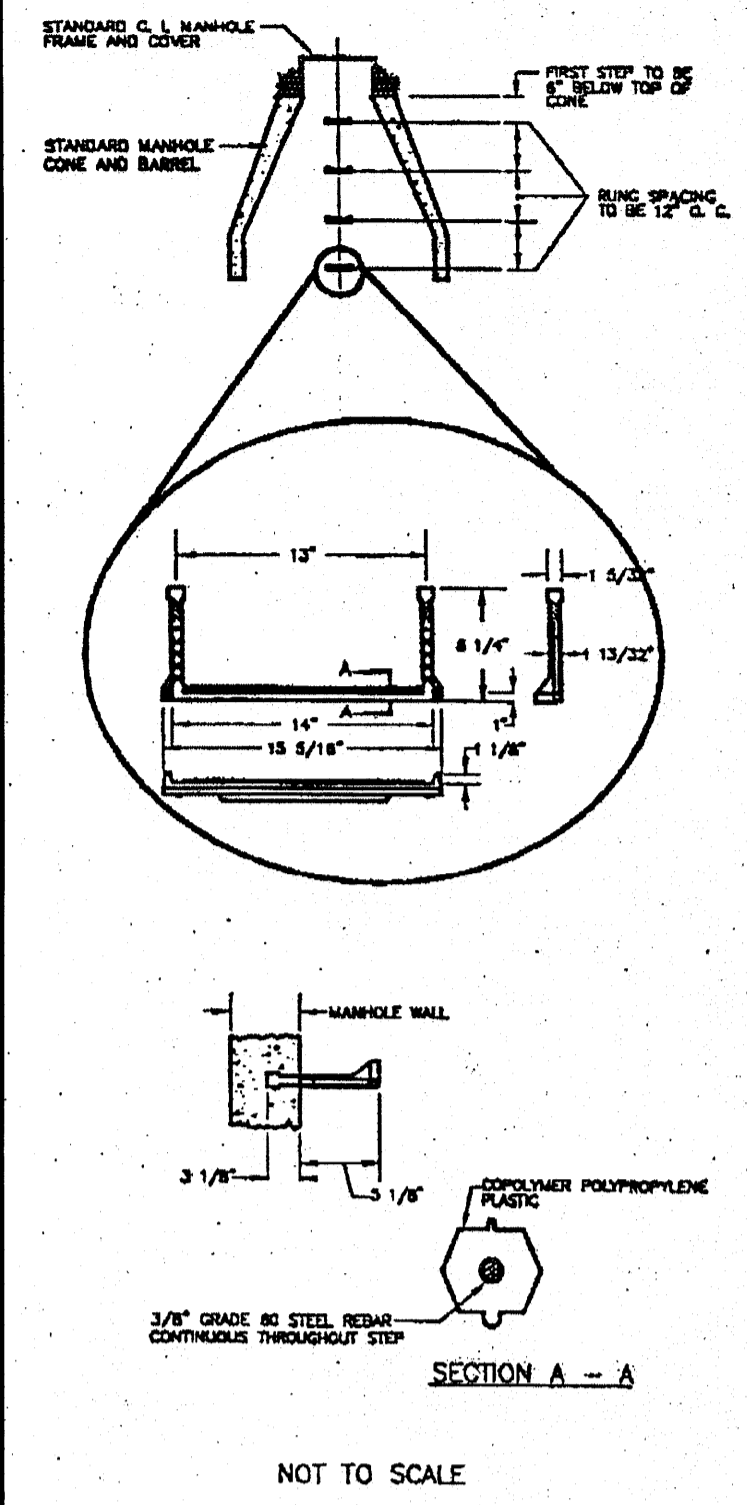


FIGURE II - 4
PLASTIC MANHOLE STEPS

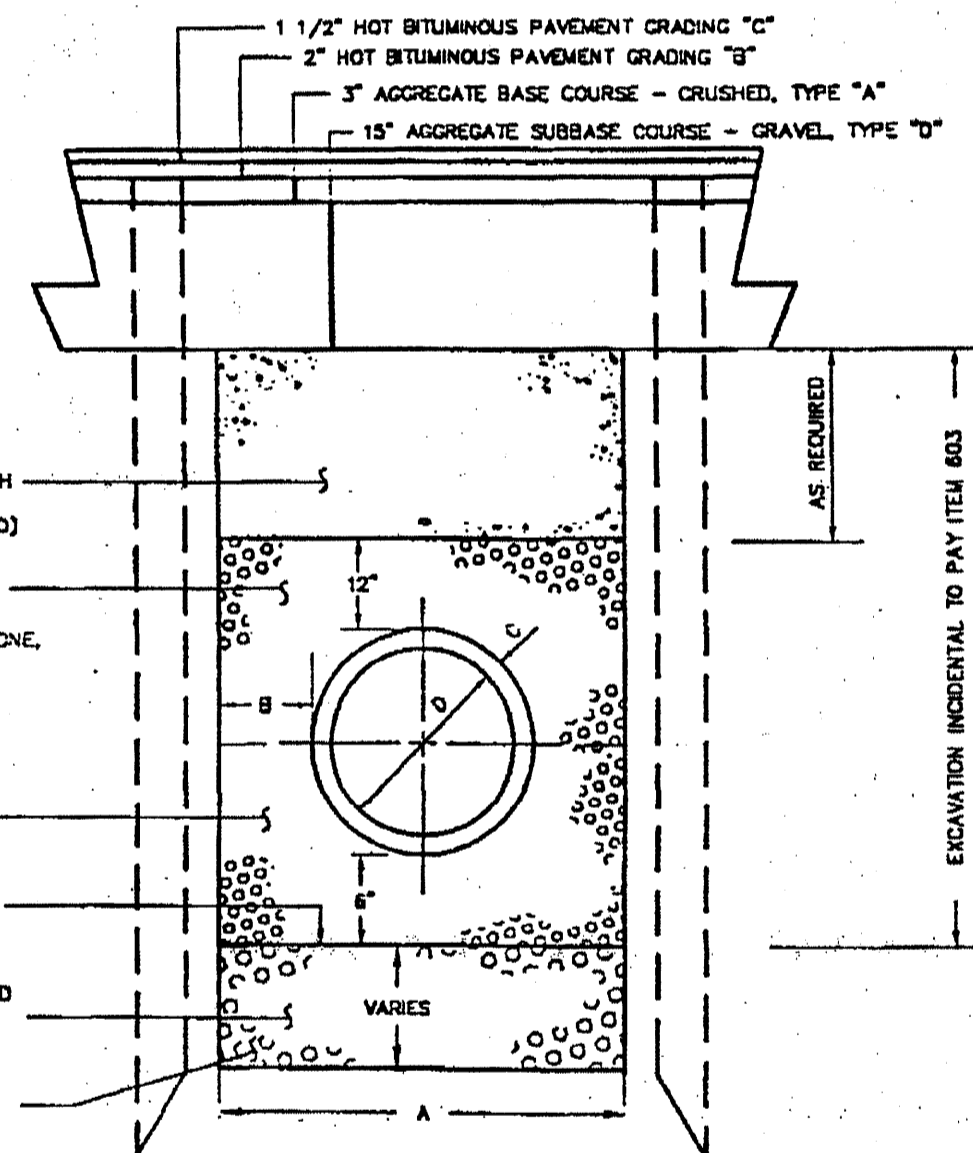
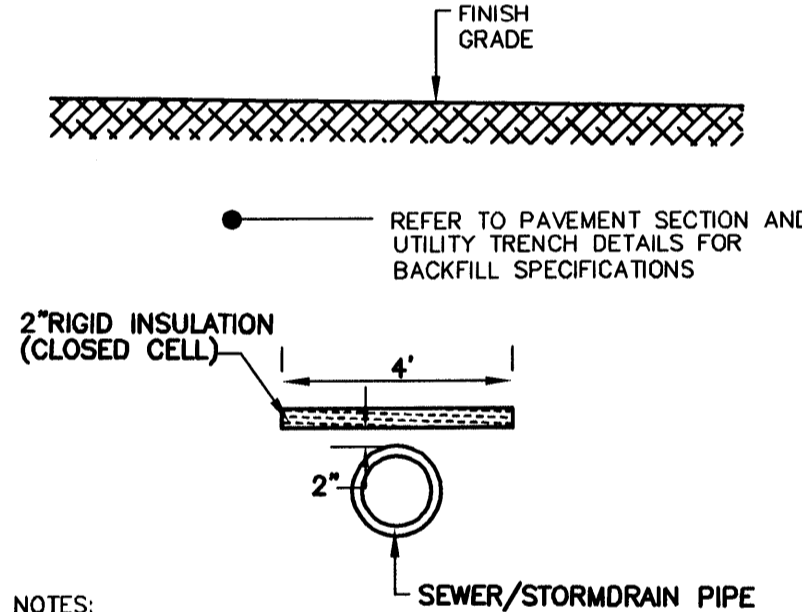


FIGURE II - 12
TYPICAL PIPE INSTALLATION DETAIL

D	A	B	MIN. BASE THICKNESS	
			IN UNREINFORCED CONCRETE	IN REINFORCED CONCRETE
12"	12"	6"	4"	4"
15"	15"	8"	5"	5"
18"	18"	10"	6"	6"
21"	21"	12"	7"	7"
24"	24"	14"	8"	8"
27"	27"	16"	9"	9"
30"	30"	18"	10"	10"
36"	36"	22"	12"	12"
42"	42"	26"	14"	14"
48"	48"	30"	16"	16"
54"	54"	34"	18"	18"
60"	60"	38"	20"	20"

D	A	B	MIN. UNREINFORCED TRENCH	
			FOR TRENCH	FOR JOINTS
12"	12"	6"	4"	4"
15"	15"	8"	5"	5"
18"	18"	10"	6"	6"
21"	21"	12"	7"	7"
24"	24"	14"	8"	8"
27"	27"	16"	9"	9"
30"	30"	18"	10"	10"
36"	36"	22"	12"	12"
42"	42"	26"	14"	14"
48"	48"	30"	16"	16"
54"	54"	34"	18"	18"
60"	60"	38"	20"	20"



NOTES:
1. INSTALLATION SHALL MEET THE STANDARDS OF THE CITY OF PORTLAND.
2. ALL DRAIN PIPES WITH LESS THAN 4' OF COVER SHALL BE INSULATED.

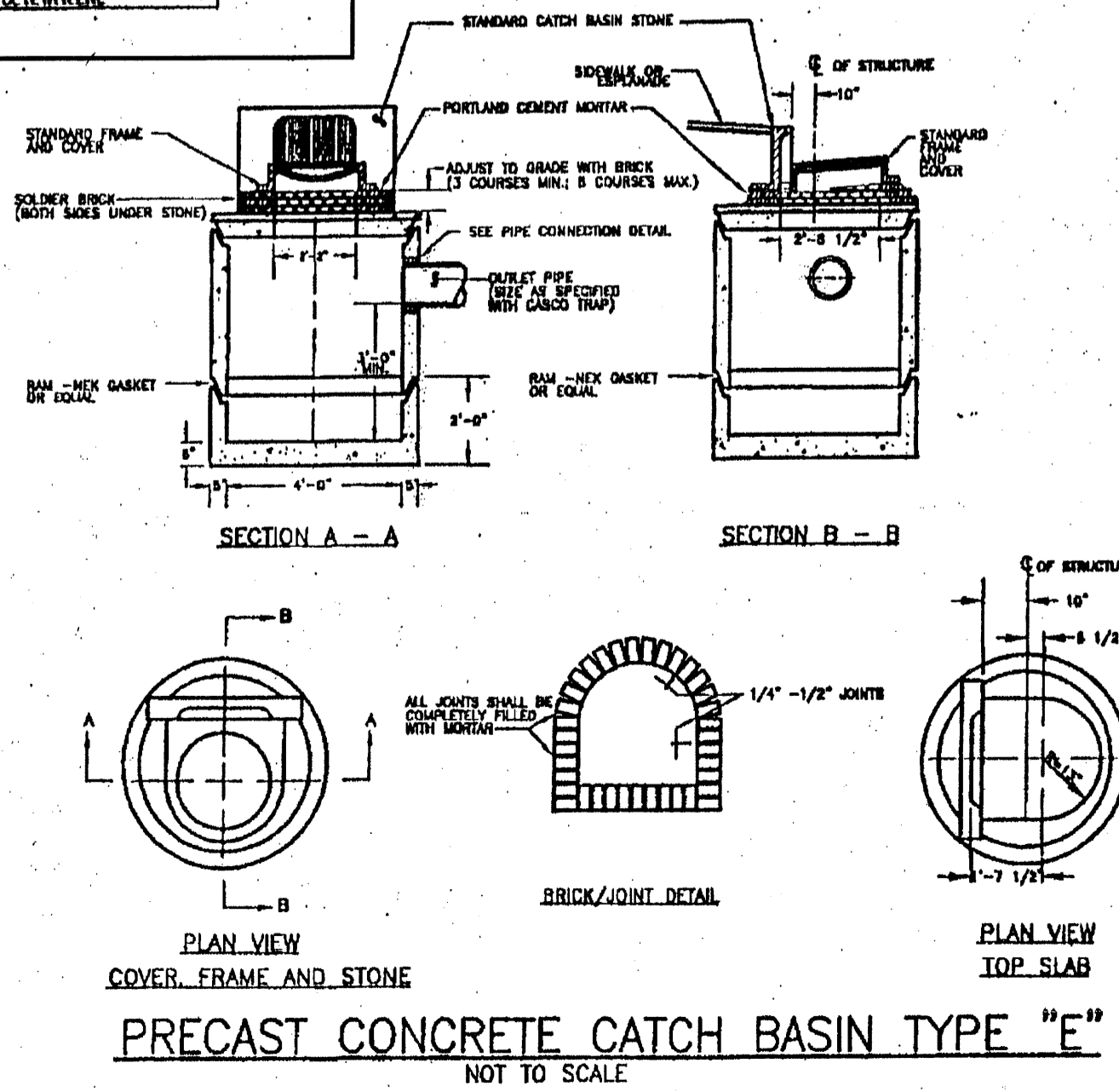
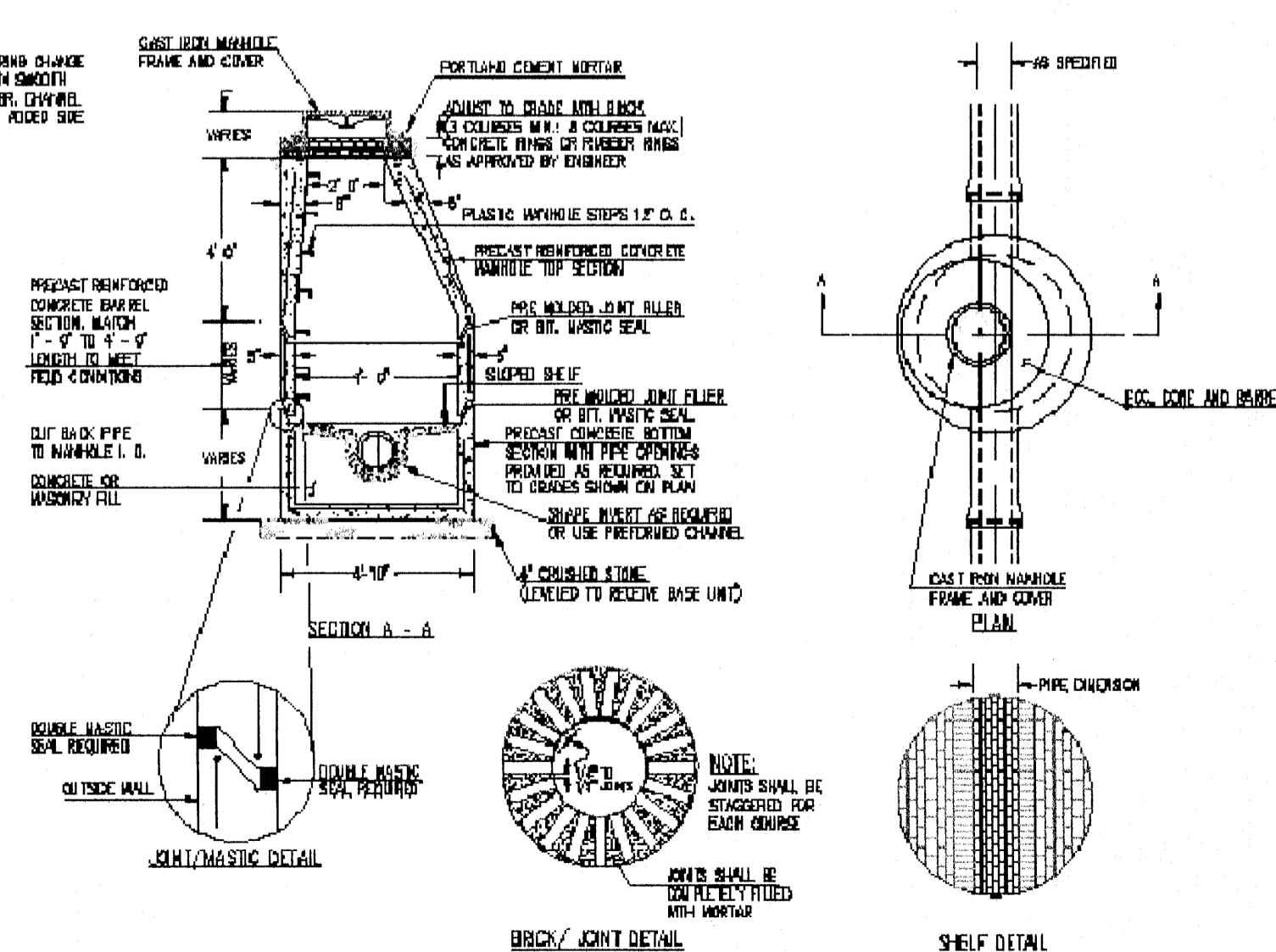


FIGURE II - 13
PRECAST CONCRETE CATCH BASIN TYPE "E"



NOTE:
MANHOLE CHAMBER INCLUDING CHAMBER ALUMINUM (I) TO BE BUILT ON SMOOTH
GRADE. IF SOLE PIPES ENTER, COVERING
TO BE GRANTED TO REVEAL COVER SIZE.
CAST IRON MANHOLE
FRAME AND COVER
PORTLAND CEMENT MORTAR
ADJUST TO MAKE HOLE RIGID
KEY COLLARS WITH 2 COLLARS MAX.
TOP COLLAR BEING 2" FROM PIPE
AS APPROVED BY ENGINEER.
PLASTIC MANHOLE STEPS 1" P.C.C.
PRECAST REINFORCED CONCRETE
FRAME OF SECTION
PIPE MANHOLE JET FILLER
OR BT. PLASTIC SEAL
PRECAST CONCRETE MOUNTING
SECTION WITH PIPE OPENINGS
PROVIDED AS REQUIRED, SET
TO CORRECT SLOPE ON PLAN.
SHAPE MUST BE RECORDED
OR USE PREDEFINED CHANNEL.
CAST IRON MANHOLE
FRAME AND COVER
PLAN
PIPE DRAINAGE
PIPE DRAINAGE
SHELF DETAIL
NOTE: JOINTS SHALL BE
STANDARDIZED PER
EACH CHANGE
JOINT SHALL BE
PRECAST/TILED
WITH MORTAR

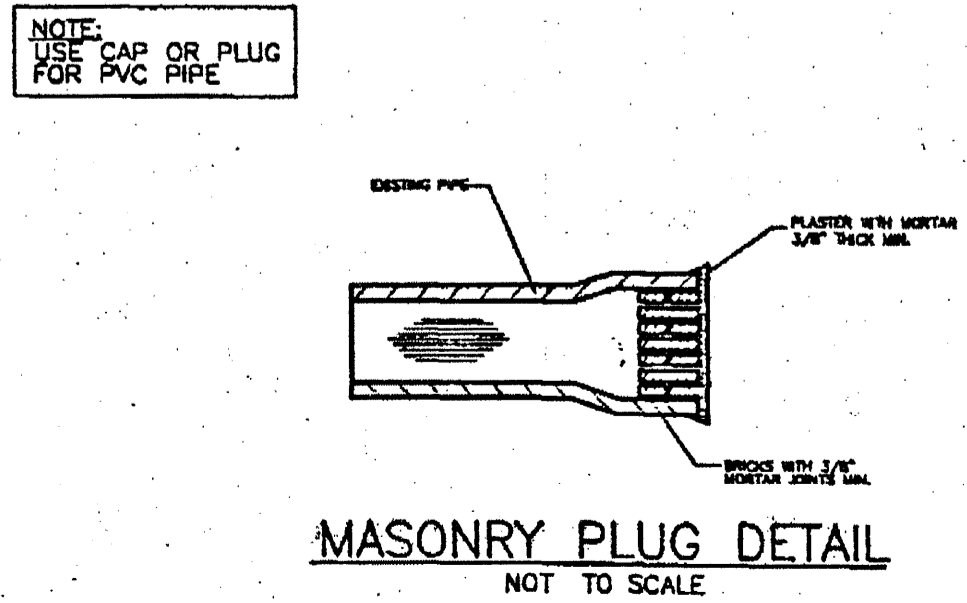


FIGURE II - 15
MASONRY PLUG DETAIL

DATE: AUGUST 13, 2008
SCALE: AS SHOWN
DESIGNED BY: GY/BLM
DRAWN BY: SAM/KAM
APPROVED BY: BLM
PROJECT NO.: 2256
FILE NO.: 2256-DETAILS-RESTR

REVISIONS

No. Description

Appd. Date

STATE OF MAINE
Bradlee Mezquita
9410
LICENSED PROFESSIONAL ENGINEER

**PROPOSED RESTAURANT
CONGRESS STREET
PORTLAND, MAINE**

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