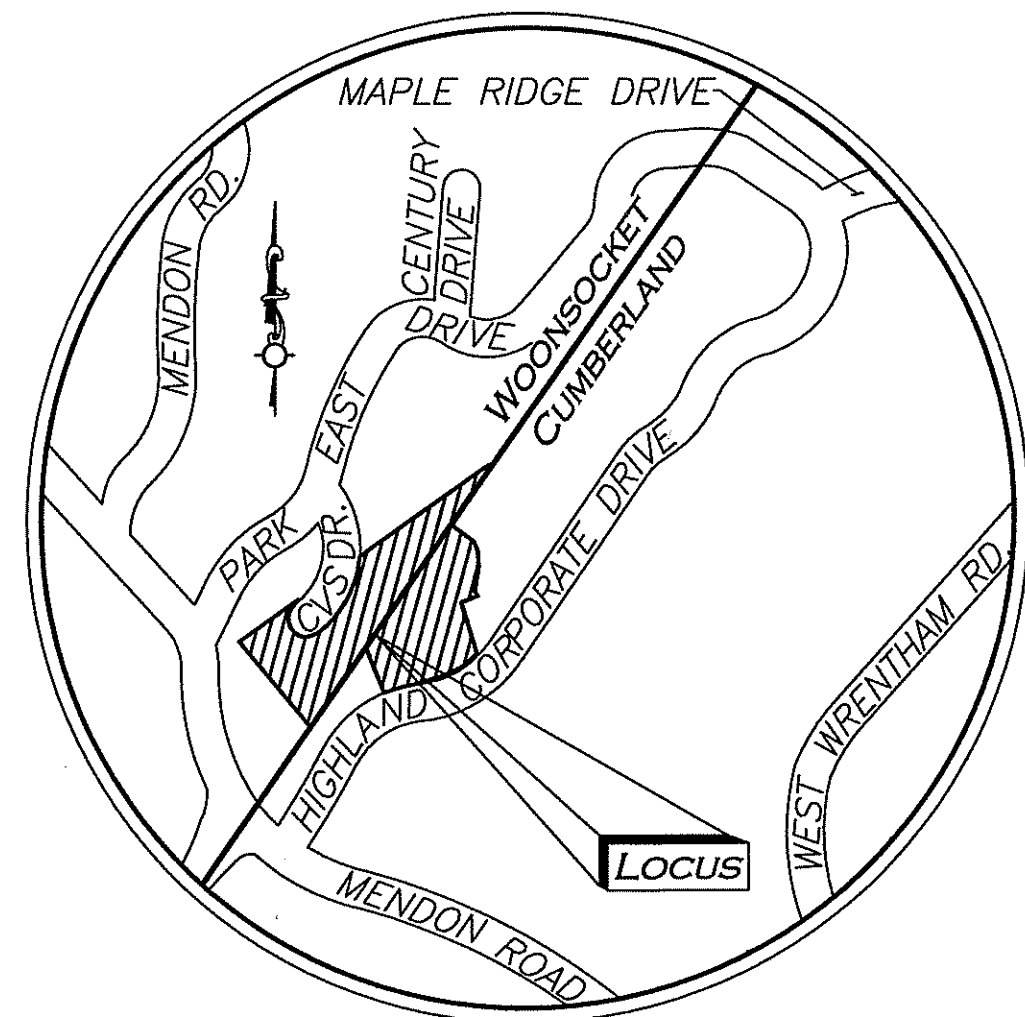


SITE DEVELOPMENT PLANS FOR BUILDING 4 EXPANSION

1 CVS DRIVE

WOONSOCKET, RI

PLAT 51, LOT 2; PLAT 52 LOTS 365 & 366



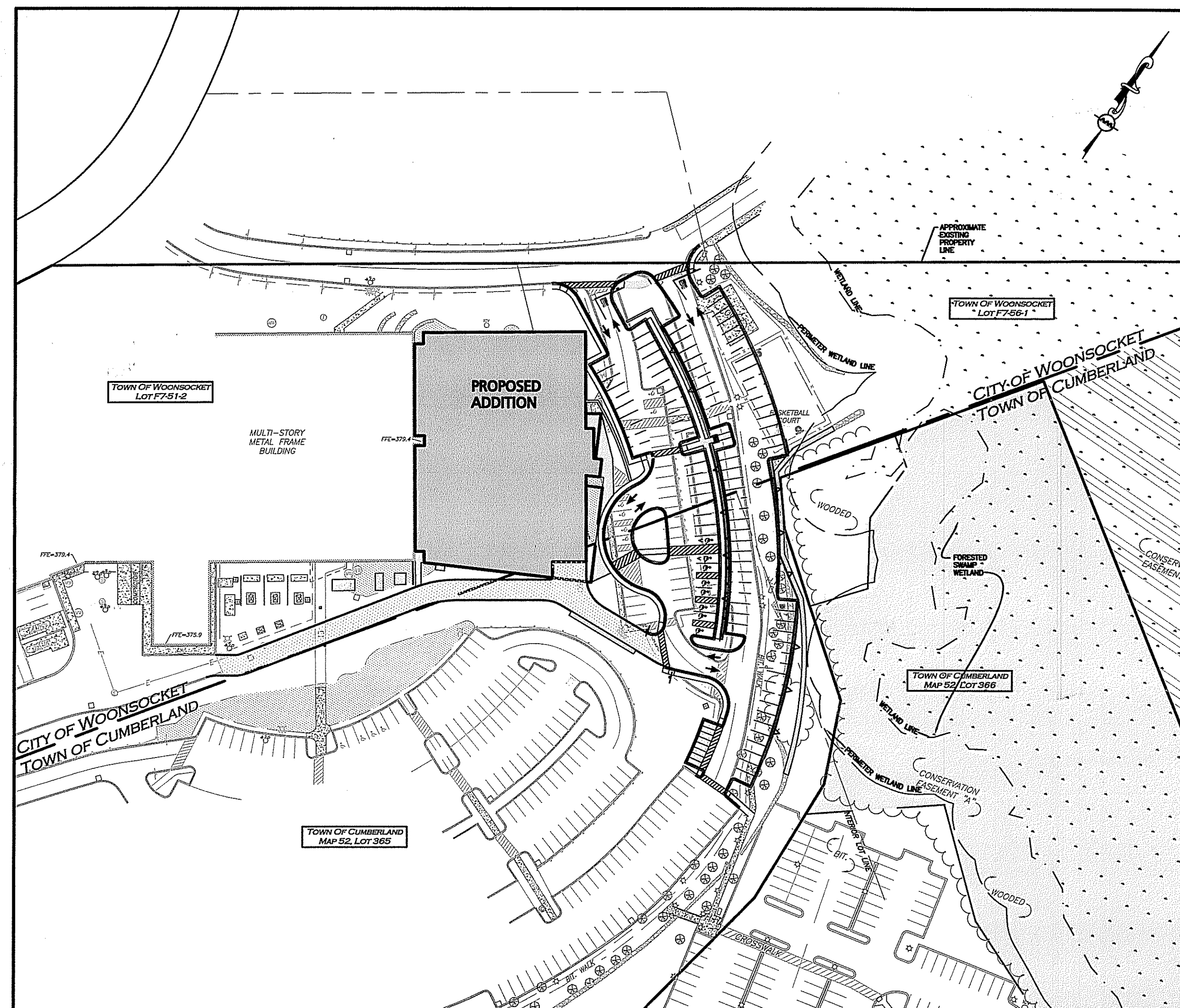
LOCUS MAP
NOT TO SCALE

OWNER/APPLICANT:
CVS PHARMACY INC.
ONE CVS DRIVE
WOONSOCKET, RI 02895

SITE ENGINEERS:
ALLEN & MAJOR ASSOCIATES, INC.
250 COMMERCIAL STREET
SUITE 1001
MANCHESTER, NH 03101

SURVEYORS:
ALLEN & MAJOR ASSOCIATES, INC.
100 COMMERCE WAY
P.O. BOX 2118
WOBBURN, MA 01888

ARCHITECT:
CUBE 3 STUDIO LLC
360 MERRIMACK STREET
BUILDING 5, FLOOR 3
LAWRENCE, MA 01843



**ISSUED FOR
REQUEST FOR PRELIMINARY DETERMINATION: FEBRUARY 18, 2009**

PREPARED BY:



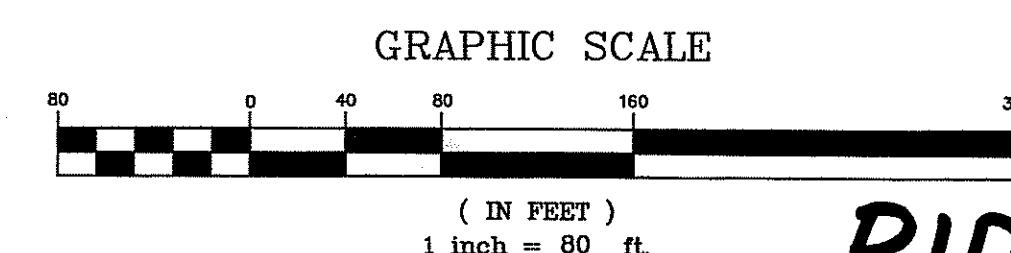
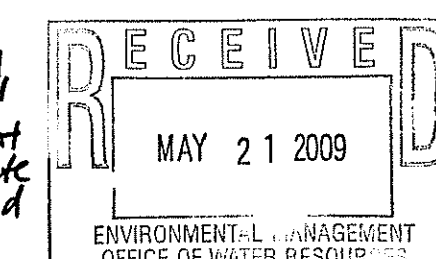
**ALLEN & MAJOR
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LIST OF DRAWINGS		
DRAWING TITLE	SHEET NO.	ISSUED
ABBREVIATIONS & NOTES	A-1	02-18-09
EXISTING CONDITIONS	EX-1	02-18-09
LAYOUT & MATERIALS PLAN	C-1	02-18-09
GRADING PLAN	C-2	02-18-09
DRAINAGE PLAN	C-3	02-18-09
UTILITY PLAN	C-4	02-18-09
EROSION CONTROL PLAN	C-5A	02-18-09
EROSION CONTROL PLAN	C-5B	02-18-09
LANDSCAPING PLAN	C-6	02-18-09
DETAILS	D-1	02-18-09
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DETAILS	D-4	02-18-09
DETAILS	D-5	02-18-09
DETAILS	D-6	02-18-09
DETAILS	D-7	02-18-09
DETAILS	D-8	02-18-09

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hackett

Note: Original receipt date crossed off and re-stamped to be consistent with revised sheets received on 5/19/09, and to be consistent with the approval letter and second complete site plan set received 5/19/09 and mailed to the applicant.



R:\PROJECTS\1514-02F\CIVIL\DRAWINGS\CURRENT\C-1514-02F C-0 COVER-SHEET.DWG

CUBE 3
STUDIO
architecture interiors planning
360 Merrimack Street Lawrence, MA 01843
phone: 978.989.9900 www.cube3studio.com

Building 4 Expansion
1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

**CVS
CAREMARK**

Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

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VEITAS VEITAS
engineers

**Issued for Request
for Preliminary
Determination**

drawing by: MP,AB,MR
drawing checked by: RC
drawing scale: As Noted
drawing date: 12.15.08
drawing revisions:
project number: 07035.00

rev. description date
1 ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION 2-18-2009

JAMES A. MAJOR
No. 3996
REGISTERED PROFESSIONAL ENGINEER
2/18/09

Cover Sheet

ORIGINAL

ABBREVIATIONS & NOTES

ABBREVIATIONS

ABAN	ABANDON
ADJ	ADJUST
AD	AREA DRAIN
B	BORING
BC	BOTTOM OF CURB
BIT	BITUMINOUS
BOR	BOTTOM OF RAMP
CATV	CABLE TELEVISION
CB	CATCH BASIN
CF	CUBIC FEET
CI	CAST IRON (PIPE)
CLDI	CEMENT LINED DUCTILE IRON (PIPE)
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CUL	CULVERT
CY	CUBIC YARD
DB	DISTRIBUTION BOX
DBL	DOUBLE
DET	DETENTION
DIA	DIAMETER
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EL	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EOR	EDGE OF ROAD
EOW	EDGE OF WETLANDS
EXIST	EXISTING
FCC	FLUSH CONCRETE CURB
FES	FLARED END SECTION
FGC	FLUSH GRANITE CURB
FFE	FINISHED FLOOR ELEVATION
FT	FOOT/FEET
GG	GAS GATE
GRAN	GRANITE
GTC	GRANITE TRANSITION CURB
GV	GATE VALVE
GV&B	GATE VALVE & BOX
HW	HEADWALL
HYD	HYDRANT
IN	INCHES
INV, I	INVERT
L	LENGTH
LP	LIGHT POLE
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MW	MONITORING WELL
N	NORTH
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE
OW	OBSERVATION WELL
PL	PROPERTY LINE
PROP, P	PROPOSED
PVC	POLYVINYL CHLORIDE (PIPE)
R&R	REMOVE & RESET/REPLACE
R&S	REMOVE & STACK
ADS	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RR	RAILROAD
SF	SQUARE FEET
SL	STOP LINE
SMH	SEWER MANHOLE
SW	SIDEWALK
SGC	SLOPED GRANITE CURB
TB	TEST BORING
TC	TOP OF CURB
TOR	TOP OF RAMP
TMH	TELEPHONE MANHOLE
TOW	TOP OF WALL
TP	TEST PIT
TYP	TYPICAL
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VGC	VERTICAL GRANITE CURB
WD	WOOD
WG	WATER GATE
WMH	WATER MANHOLE
WSO	WATER SHUTOFF

* SOME OF THESE NOTES MAY NOT APPLY TO THE CURRENT PROPOSED WORK HOWEVER ALLEN & MAJOR ASSOCIATES, INC. LEFT THEM IN THE PLAN IN THE EVENT THAT THE SCOPE EXPANDS OF WORK AND ADDITIONAL NOTES SUCH AS UTILITIES ETC. WILL BE COVERED.

GENERAL NOTES

1. APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF WOONSOCKET REGULATIONS AND CODES AND O.S.H.A. STANDARDS. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LAND SUBDIVISION REGULATIONS OF THE CITY OF WOONSOCKET PLANNING BOARD, THE PUBLIC WORKS DEPARTMENT SPECIFICATIONS, ALL APPLICABLE RIDEM REGULATIONS, AND NBC SEWER REGULATIONS.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES, AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
4. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE CONTRACTOR AT GROUND BREAK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
6. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN. THE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES DESIGNATED ON THESE DRAWINGS. SERVICES SHALL BE CAPPED OFF WHERE SAME ENTER THE PERIMETER OF THE PROPERTY LINE.
8. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
9. PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL INSTALLATION.
10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
11. ALL DISTURBED AREAS ARE TO RECEIVE FOUR (4) INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
12. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. ALL REMAINING ISLANDS ARE TO BE STRIPED AS SHOWN.
13. CURB RADII SHALL BE AS SHOWN ON THE PLAN, THOUGH TYPICALLY TEN (10) FEET AT CORNERS AND TWO (2) FEET ADJACENT TO PARKING STALLS.
14. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
15. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF CUMBERLAND GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
17. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR SEWER CONNECTIONS WITHIN TEN (10) FEET OF THE BUILDING PERIMETER AND PARKING GARAGE.
18. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE THE EXACT POINT OF SERVICE CONNECTION AT THE EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
19. FINISHED WALK AND CURB ELEVATIONS VARY FROM FLUSH TO A MAXIMUM OF SIX (6) INCHES ABOVE FINISHED GRADE.
20. PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCED NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED.
21. PROPOSED ELECTRIC AND COMMUNICATIONS (TELEPHONE, CABLE, AND FIRE ALARM SYSTEMS) LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE COORDINATED AND SCHEDULED WITH THE APPROPRIATE UTILITY COMPANY SERVICING THE PROJECT SITE.
22. CONTRACTOR IS RESPONSIBLE FOR DIGGING TEST HOLES AND VERIFYING ANY EXISTING UTILITY OR STRUCTURE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT BASED ON EXACT LOCATION OF EXISTING UTILITIES, THERE ARE NO CONFLICTS BETWEEN THEM AND THE PROPOSED UTILITIES.
23. THE CONTRACTOR SHALL GIVE TWENTY-FOUR (24) HOUR NOTICE TO THE PERTINENT CITY OF WOONSOCKET DEPARTMENT BEFORE COMMENCING ANY WORK IN THE FIELD.

GRADING AND DRAINAGE NOTES

1. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
2. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. THE CONTRACTOR SHALL APPLY EROSION CONTROL BLANKETS TO ALL SLOPES 3H:1V OR STEEPER. THE CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH TOWN OR CITY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
3. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
4. STORM PIPE SHALL BE HDPE. SEE DRAINAGE PLAN FOR SIZE, TYPE, AND LOCATION.
5. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. EXISTING GRADE CONTOUR INTERVALS SHOWN AT ONE (1) FOOT.
7. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT ONE (1) FOOT.
8. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
9. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
10. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE FLUSH WITH FINISH GRADE. LIDS SHALL BE LABELED "DRAIN".
11. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL R.I.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
12. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
13. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
14. TOPOGRAPHIC INFORMATION OBTAINED FROM AN ACTUAL FIELD SURVEY PERFORMED ON OR BETWEEN SEPTEMBER 30, 2008 AND OCTOBER 10, 2008.
15. ALL CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH HOODS AND FOUR (4) FOOT SUMPS AND SHALL CONFORM TO ALL LOCAL AND STATE DRAINAGE REQUIREMENTS.
16. A MINIMUM OF 18 INCHES VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES. WATER SERVICES SHALL BE ENCASED IN CONCRETE REGARDLESS OF CLEARANCE WHEN PASSING BELOW STORM DRAIN LINES. ENCASEMENT SHALL EXTEND ALONG WATER SERVICE A MINIMUM DISTANCE OF TEN (10) FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
17. ALL DRAINAGE SHALL CONFORM TO ALL LOCAL AND STATE REQUIREMENTS.

PARKING AND TRAFFIC CONTROL NOTES

1. HANDICAP ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.).
2. ACCESSIBLE PARKING SPACES DESIGNATED WITH A "VAN" SHALL BE SIGNED AS "VAN ACCESSIBLE" PER A.D.A. 4.1.2.5b.
3. ALL LIMITS OF PAVEMENT SHALL BE CURBED UNLESS NOTED OR DETAILED OTHERWISE.
4. ALL STANDARD PARKING SPACES SHALL BE NINE (9) FEET WIDE BY EIGHTEEN (18) FEET LONG, WITH TWENTY-FOUR (24) FOOT AISLES UNLESS NOTED OR DETAILED OTHERWISE.
5. ALL PAVEMENT STRIPING SHALL BE PAINTED WITH TWO (2) COATS OF PAINT.
6. SAWCUT AND REMOVE ALL EXISTING PAVEMENT IN AREAS WHERE THE PROPOSED GRADES ARE LESS THAN ONE (1) INCH GREATER THAN THE EXISTING GRADES. IN FILL AREAS WHERE PROPOSED GRADES ARE ONE (1) TO THREE (3) INCHES HIGHER THAN THE EXISTING PAVEMENT, THE PROPOSED GRADES SHALL BE MET BY ADDING PAVEMENT OVERLAYS (1.5 INCH MAXIMUM THICKNESS PER LIFT) TO EXISTING PAVEMENT.
7. THE CONTRACTOR SHALL RAISE ALL UTILITY CASTINGS TO THE PROPOSED GRADE.

EROSION CONTROL NOTES

1. CONTACT THE WOONSOCKET ENGINEERING DEPARTMENT AT LEAST THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION.
2. SILT CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE AND OUT OF ANY ADJACENT WETLANDS. ANY MODIFICATIONS TO EROSION AND SILTATION CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES (BMP) PER THE CURRENT REGULATIONS FOR THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIDPES). ANY SUCH MODIFICATIONS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
4. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
5. TEMPORARY SEDIMENT TRAPS AND OTHER TEMPORARY SEDIMENT AND EROSION CONTROLS DURING CONSTRUCTION WILL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. DURING CONSTRUCTION THE SITE SHALL BE TEMPORARILY GRADED TO PREVENT RUNOFF INTO ADJACENT PROPERTIES.
6. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAY BALES AND/OR SILT FENCES TO PREVENT AND/OR CONTROL SILTATION AND EROSION.
7. TOPS OF STOCKPILES SHALL BE COVERED IN A SUCH MANNER THAT STORM WATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
8. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK OR SIX MONTHS AFTER SOIL HAS BEEN DISTURBED, WHICHEVER IS LESS.
9. USE GROOVING OR TRACKING TO ROUGHEN THE FACE OF SLOPES TO FACILITATE VEGETATION ESTABLISHMENT. APPLY SEED, FERTILIZER, AND HAY MULCH AND THE TRACK OR PUNCH IN THE MULCH WITH A BULLDOZER ON 3:1 SLOPES OR LESS.
12. ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS AND PROTECTED FROM EROSION.
13. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAY BALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
14. HAY BALE DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS LOCATED IN FILL AREAS & SUBJECT TO STORM WATER RUNOFF FROM PROPOSED FILL AREAS DURING CONSTRUCTION, OR AS DIRECTED BY THE OWNER/ENGINEER. NO SEDIMENTATION SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
15. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL HAY BALES AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE PERMITTING AUTHORITIES TO MITIGATE ANY EMERGENCY CONDITION.

MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NECESSARY.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES A HEIGHT OF SIX (6) INCHES.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN IT REACHES A DEPTH OF SIX (6) INCHES.
22. THE CONTRACTOR SHALL FIELD VERIFY/LOCATE EXISTING WATER MAINS AND SERVICES.
23. VALVES SHALL BE GATE VALVES AND SHALL BE RESILIENT SEAT, MODIFIED WEDGE DISK CONFORMING TO AWWA C-509, AND BE APPROVED BY THE MUNICIPALITY.
24. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL AND MUNICIPAL STANDARDS AND REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH THE UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.
25. ALL WATER SERVICES SHALL BE INSTALLED WITHIN FIVE (5) FEET OF THE PROPOSED BUILDING FACE.
26. SEWER PIPE BEDDING MATERIAL SHALL BE AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. IF LOCAL OR STATE AUTHORITIES REQUIRE DIFFERENT BEDDING OR BACKFILL MATERIAL, THEN THE MORE STRINGENT SHALL APPLY.
27. ALL SEWER FORCEMAIN PIPE SHALL BE PVC CLASS 200 WITH A MINIMUM COVERAGE OF FOUR (4) FEET.

LANDSCAPING NOTES

1. SEE PLANTING PLAN SHEET C-6 FOR PLANING NOTES.

UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS SEVENTY-TWO (72) HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE SDR35 AND SHALL CONFORM TO ASTM D 3034 WITH A MINIMUM OF FOUR (4) FEET OF COVERAGE.
4. MINIMUM TRENCH WIDTH SHALL BE TWO (2) FEET.
5. ALL WATER LINE PIPING, JOINTS AND JOINT RESTRAINT SYSTEMS AND APPURTENANCES SHALL BE DESIGNED, SPECIFIED AND INSTALLED IN ACCORDANCE WITH CITY OF WOONSOCKET PUBLIC WATER DEPARTMENT REQUIREMENTS.
6. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF FIVE (5) FEET OF COVER ON ALL WATERLINES AND A MAXIMUM OF EIGHT (8) FEET OF COVER.
7. WHERE SANITARY SEWER LINES CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST EIGHTEEN (18) INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE SEWER. ONE (1) FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS DESCRIBED ABOVE, BOTH THE WATER MAIN AND THE SANITARY SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF TEN (10) FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE TO MEET THE REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
8. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE APPROPRIATE INSPECTING UTILITY AUTHORITY PRIOR TO BACKFILLING.
9. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND MANHOLES NOT IN PAVEMENT SHALL BE FLUSH WITH FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
10. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM TWENTY-EIGHT (28) DAY COMPRESSION STRENGTH OF 3,000 P.S.I.
11. DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING UTILITIES.
12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13. REFER TO INTERIOR PLUMBING AND MECHANICAL DRAWINGS FOR TIE-IN OF ALL UTILITIES.
14. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE TOWN AND APPLICABLE UTILITY COMPANY REQUIREMENTS WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER, SEWER, GAS, ELECTRICAL AND TELECOMMUNICATIONS LINES.
15. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
16. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
17. ALL HYDRANTS SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF WOONSOCKET REQUIREMENTS.
18. ALL WATER MAINS THREE (3) INCHES AND LARGER SHALL BE CEMENT LINED DUCTILE IRON - CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.
19. DOMESTIC WATER SERVICES SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE, BOX, AND TEE FITTINGS.
20. ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED THE CITY OF WOONSOCKET REQUIREMENTS.
21. ALL WATER MAIN FITTINGS, VALVES AND TEES, ETC. SHALL BE RESTRAINED WITH THRUST BLOCKS AS REQUIRED BY THE CITY OF WOONSOCKET. WHERE ADEQUATE RESTRAINT CANNOT BE OBTAINED WITH THRUST BLOCKS, USE OF RETAINER GLANDS IS REQUIRED. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKS AS REQUIRED TO PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF CLEARANCE MEETING THE REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).

CUBE 3
STUDIO

architecture interiors planning
360 Merrimack Street Lawrence, MA 01843
phone: 978.989.9900 www.cube3studio.com

Building 4 Expansion

1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

CVS
CAREMARK

Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

PREPARED BY:

ALLEN & MAJOR
ASSOCIATES, INC.

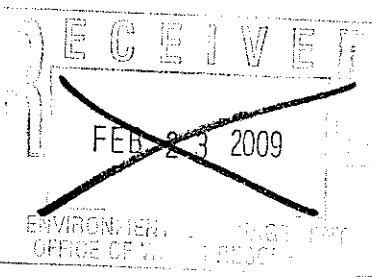
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FAX: (603) 697-4301
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Fax: (508) 524-6065 Fax: (401) 454-6068
ber@ber-engineering.com www.ber-engineering.com

VEITAS & VEITAS
engineers

120 Granite Street, Suite 101
Beverly, Massachusetts 01915
TEL: (508) 460-3653 FAX: (508) 460-3660



Issued for Request for Preliminary Determination

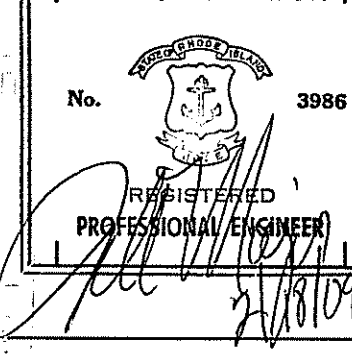
drawing by: MP,AB,MR
drawing checked by: RC
drawing scale: As Noted
drawing date: 12.15.08

drawing revisions:

project number: 07035.00

REV.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

(JAMES A. MAJORY)



Abbreviations & Notes

A-1

Building 4 Expansion

1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 358 & 366
Woonsocket F7-56-1 & F7-51-2



Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI



**ALLEN & MAJOR
ASSOCIATES, INC.**

civil & structural engineering • land surveying
environmental consulting • geotechnical engineering
• • • • •
300 COMMERCIAL STREET
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BER
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No. Easton, MA 02556
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Tel: (408) 433-4885 Fax: (408) 433-4885
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VEITAS&VEITAS
engineers
620 Granite Street, Suite 101
Beverly, Massachusetts 01915
TEL: (508) 434-0000 FAX: (508) 434-0005

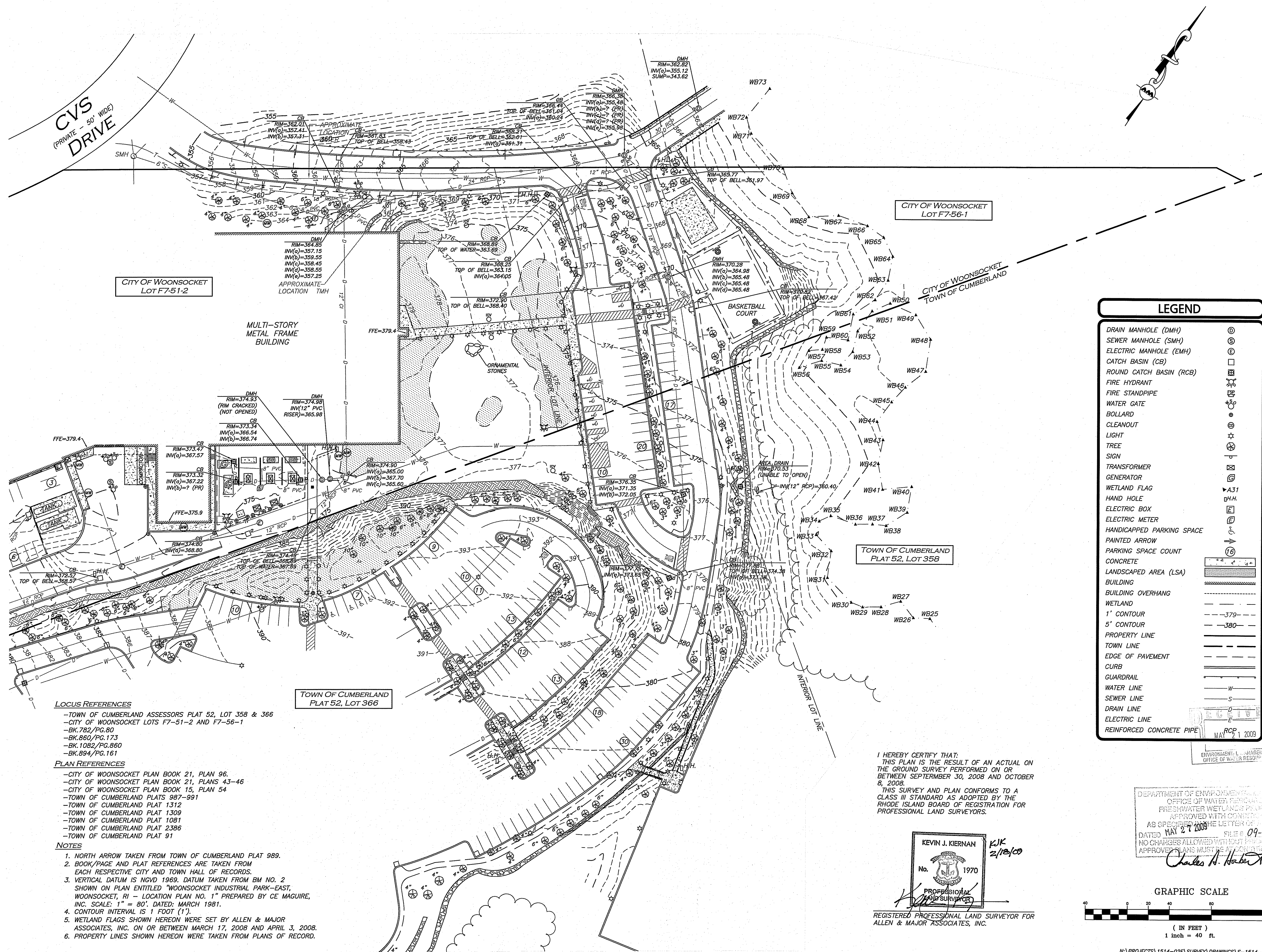
Issued for Request for Preliminary Determination

drawing information:

drawing by:	AJR	
drawing checked by:	KJK	
drawing scale:	1"=40'	
drawing date:	02.15.09	
drawing revisions:		
project number:	07035.00/1514-01F	
rev.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-09

EXISTING
CONDITIONS

EX-1
3 of 18



LOCUS REFERENCES

- TOWN OF CUMBERLAND ASSESSORS PLAT 52, LOT 358 & 366
- CITY OF WOONSOCKET LOTS F7-51-2 AND F7-56-1
- BK.782/PG.80
- BK.860/PG.173
- BK.1082/PG.860
- BK.894/PG.161

PLAN REFERENCES

- CITY OF WOONSOCKET PLAN BOOK 21, PLAN 96
- CITY OF WOONSOCKET PLAN BOOK 21, PLANS 43-46
- CITY OF WOONSOCKET PLAN BOOK 15, PLAN 54
- TOWN OF CUMBERLAND PLATS 987-991
- TOWN OF CUMBERLAND PLAT 1312
- TOWN OF CUMBERLAND PLAT 1309
- TOWN OF CUMBERLAND PLAT 1081
- TOWN OF CUMBERLAND PLAT 2386
- TOWN OF CUMBERLAND PLAT 91

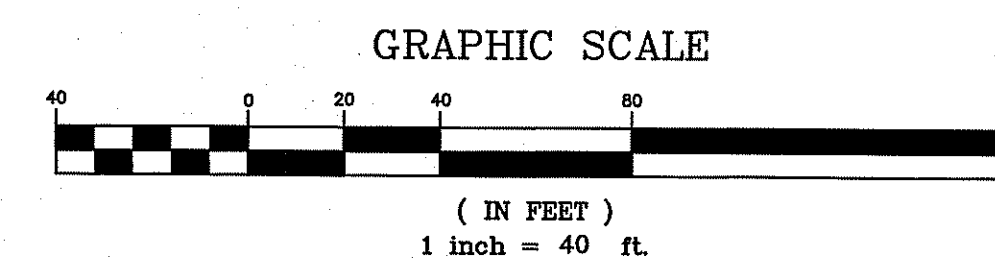
NOTES

1. NORTH ARROW TAKEN FROM TOWN OF CUMBERLAND PLAT 989.
2. BOOK/PAGE AND PLAN REFERENCES ARE TAKEN FROM EACH RESPECTIVE CITY AND TOWN HALL OF RECORDS.
3. VERTICAL DATUM IS NGVD 1989. DATUM TAKEN FROM BM NO. 2 SHOWN ON PLAN ENTITLED "WOONSOCKET INDUSTRIAL PARK-EAST, WOONSOCKET, RI - LOCATION PLAN NO. 1" PREPARED BY CE MAGUIRE, INC. SCALE: 1" = 80'. DATED: MARCH 1981.
4. CONTOUR INTERVAL IS 1 FOOT (1').
5. WETLAND FLAGS SHOWN HEREON WERE SET BY ALLEN & MAJOR ASSOCIATES, INC. ON OR BETWEEN MARCH 17, 2008 AND APRIL 3, 2008.
6. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM PLANS OF RECORD.

I HEREBY CERTIFY THAT:
THIS PLAN IS THE RESULT OF AN ACTUAL ON
THE GROUND SURVEY PERFORMED ON OR
BETWEEN SEPTEMBER 30, 2008 AND OCTOBER
8, 2008.
THIS SURVEY AND PLAN CONFORMS TO A
CLASS III STANDARD AS ADOPTED BY THE
RHODE ISLAND BOARD OF REGISTRATION FOR
PROFESSIONAL LAND SURVEYORS.

KEVIN J. KIERNAN
No. 1970
PROFESSIONAL
LAND SURVEYOR
REGISTERED PROFESSIONAL LAND SURVEYOR FOR
ALLEN & MAJOR ASSOCIATES, INC.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PERMITTING
APPROVED WITH COMMENTS
AS SPECIFIED IN THE LETTER OF
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PERMIT
APPROVED PLANS MUST BE A COPY OF THIS
Charles A. Haber



N:\PROJECTS\1514-02F\SURVEY\DRAWINGS\1514-02F-EC.DWG
FB# 1655 PG. 93

Building 4 Expansion

1 CVS Drive
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Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-50-1 & F7-51-2

**CVS
CAREMARK**

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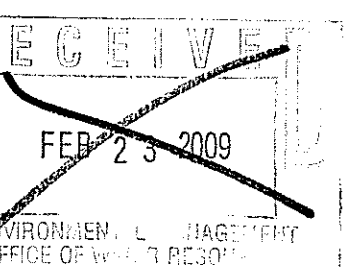
**ALLEN & MAJOR
ASSOCIATES, INC.**

1011 Commercial Engineering & Land Surveying
Environmental Consulting & Landscape Architecture
P.O. BOX 111111
300 COMMERCIAL STREET
SUITE 100
MANCHESTER, NH 08101
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FAX: (603) 627-6001
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Fax: (508) 234-0205 Fax: (401) 433-4008
BER@ber-engineering.com www.ber-engineering.com

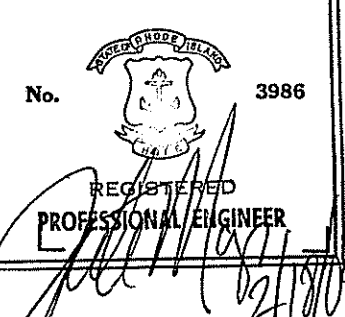
VEITAS & VEITAS
engineers



**Issued for Request
for Preliminary
Determination**

drawing by:	MP,AB,MR	
drawing checked by:	RC	
drawing scale:	1"=40'	
drawing date:	12.15.08	
drawing revisions:		
project number:	07035.00	
rev.	description	date
1	PRELIM. ELECT EQUIP.	1/20/2009
2	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

JAMES A. MAJOR



**Layout &
Materials
Plan**

C-1

LEGEND:

PROP. PROPERTY LINE	---
SIGN	—
BOLLARD	—
BUILDING	—
BUILDING ARCHITECTURE	—
BUILDING INTERIOR WALLS	—
CURB	—
RETAINING WALL	—
PARKING STRIPING	—
ROADWAY STRIPING	—
TRAFFIC ARROWS	—
HEAVY DUTY CONCRETE	—
HEAVY DUTY PAVEMENT	—
SIDEWALK	—
ADA ACCESSIBLE RAMP	—
ADA DET. WARNING SURFACE	—
SNOW STORAGE	—
SETBACK LINE	—
PARKING COUNT	—
WOOD GUARDRAIL	—
CHAIN LINK FENCE	—
WOOD FENCE	—
TREE LINE	—
TRANSFORMER	—
STOP LINE	—

NOTES:

- SEE SHEET A-1 FOR ABBREVIATIONS & NOTES.
- SEE SHEET 1 FOR EXISTING CONDITIONS.
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH COMMENTS
AS SPECIFIED IN THE LETTER OF A.D. MAJOR
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PRIOR WRITTEN
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Huber

MAY 21 2009

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

Building 4 Expansion
1 CVS Drive
Woonsocket, RI 02885
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

CVS CAREMARK

Woonsocket, RI; Cumberland, RI;
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engineers
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Issued for Request for Preliminary Determination

drawing by: MP, AB, MR
drawing checked by: RC
drawing date: 12.15.08
drawing revision: 12.15.08
project number: 07035.00

rev.	description	date
1	PRELIM. ELECT. EQUIP.	1/20/2009
2	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

JAMES A. MAJOR
No. 3986
REGISTERED PROFESSIONAL ENGINEER

Grading Plan

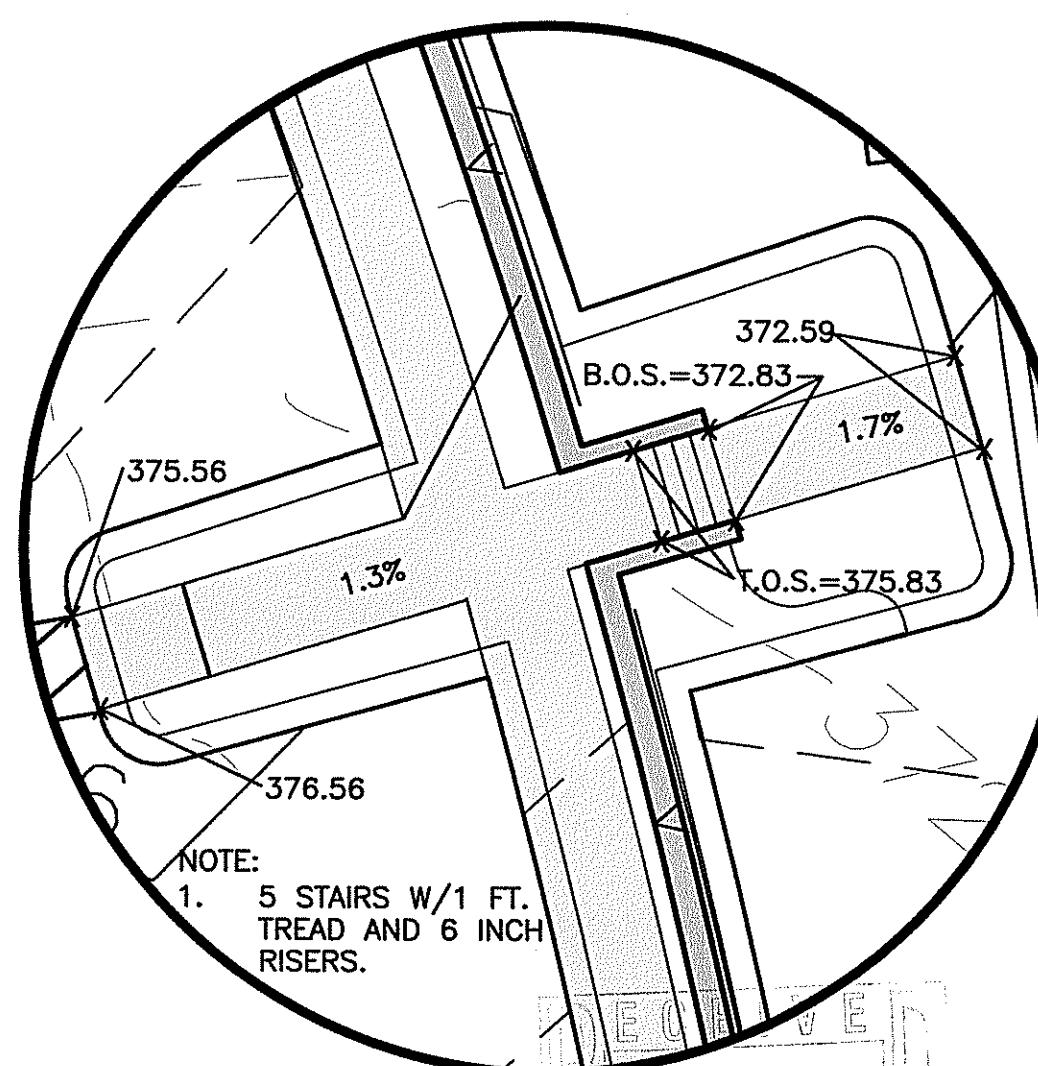
C-2
5 of 18

LEGEND:

10' CONTOUR	370
2' CONTOUR	372
1' CONTOUR	371
SPOT GRADE	x128
SAW-CUT LINE	

NOTES:

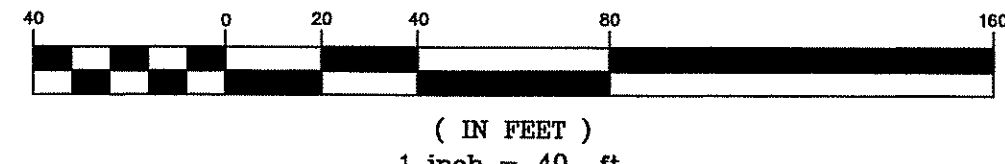
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- SEE SHEETS S0.1 TO S4.2 FOR RETAINING WALL DESIGNS.



SCALE: 1"=10'

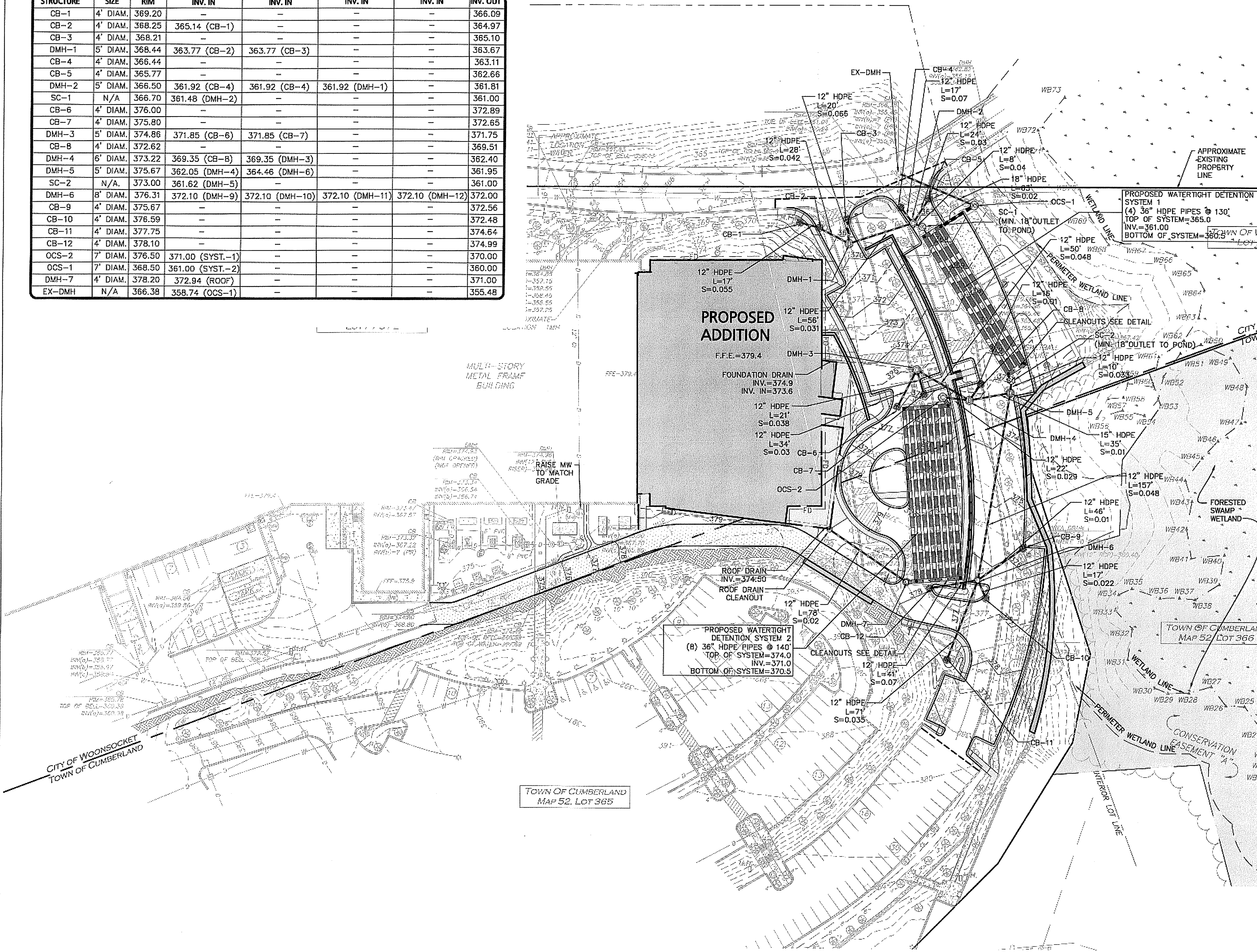
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PREVIOUS WRITTEN APPROVAL
Charles A. Horvath

GRAPHIC SCALE



DRAINAGE STRUCTURE SCHEDULE

STRUCTURE	SIZE	RIM	INV. IN	INV. IN	INV. IN	INV. IN	INV. OUT
CB-1	4' DIAM.	369.20	-	-	-	-	366.09
CB-2	4' DIAM.	368.25	365.14 (CB-1)	-	-	-	364.97
CB-3	4' DIAM.	368.21	-	-	-	-	365.10
DMH-1	5' DIAM.	368.44	363.77 (CB-2)	363.77 (CB-3)	-	-	363.67
CB-4	4' DIAM.	366.44	-	-	-	-	363.11
CB-5	4' DIAM.	365.77	-	-	-	-	362.66
DMH-2	5' DIAM.	366.50	361.92 (CB-4)	361.92 (CB-4)	361.92 (DMH-1)	-	361.81
SC-1	N/A	366.70	361.48 (DMH-2)	-	-	-	361.00
CB-6	4' DIAM.	376.00	-	-	-	-	372.89
CB-7	4' DIAM.	375.80	-	-	-	-	372.65
DMH-3	5' DIAM.	374.86	371.85 (CB-6)	371.85 (CB-7)	-	-	371.75
CB-8	4' DIAM.	372.62	-	-	-	-	369.51
DMH-4	6' DIAM.	373.22	369.35 (CB-8)	369.35 (DMH-3)	-	-	362.40
DMH-5	5' DIAM.	375.67	362.05 (DMH-4)	364.46 (DMH-6)	-	-	361.95
SC-2	N/A	373.00	361.62 (DMH-5)	-	-	-	361.00
DMH-6	8' DIAM.	376.31	372.10 (DMH-9)	372.10 (DMH-10)	372.10 (DMH-11)	372.10 (DMH-12)	372.00
CB-9	4' DIAM.	375.67	-	-	-	-	372.56
CB-10	4' DIAM.	376.59	-	-	-	-	372.48
CB-11	4' DIAM.	377.75	-	-	-	-	374.64
CB-12	4' DIAM.	378.10	-	-	-	-	374.99
OCS-2	7' DIAM.	376.50	371.00 (SYST.-1)	-	-	-	370.00
OCS-1	7' DIAM.	368.50	361.00 (SYST.-2)	-	-	-	360.00
DMH-7	4' DIAM.	378.20	372.94 (ROOF)	-	-	-	371.00
EX-DMH	N/A	366.38	358.74 (OCS-1)	-	-	-	355.48



LEGEND:

DRAIN MANHOLE	⊙
CATCH BASIN	⊙
CLEAN OUT	⊙
CATCH BASIN - DOUBLE GRATE	⊙
FLARED END SECTION	⊙
DRAIN LINE	—
RIPRAP OUTFALL	—
HEADWALL	—
10' CONTOUR	—
2' CONTOUR	—
SPOT GRADE	x 128
TOP OF BERM	—
DETENTION BASIN	—
SAW-CUT LINE	—
DETENTION SYSTEM LIMITS	—
DETENTION SYSTEM PIPE	—
FOUNDATION DRAIN	—

NOTES:

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- SEE SHEET 1 FOR EXISTING CONDITIONS.
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Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

CVS CAREMARK

Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

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Issued for Request for Preliminary Determination

drawing information:	drawing by:	MP AB/MR																		
	drawing checked by:	RC																		
	drawing scale:	1"=40'																		
	drawing date:	12.15.08																		
	drawing revision:																			
	project number:	07035.00																		
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rev.	description	date																		
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009																		
2	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	5-19-2009																		

JAMES A. MAJOR

No. 3986
REGISTERED PROFESSIONAL ENGINEER
MAINE
Signature: [Signature]
Date: MAY 21 2009

Drainage Plan

MAY 21 2009

C-3

Building 4 Expansion

1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

**CVS
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WORKING IN A COMMITMENT TO EXCELLENCE

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engineers

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Issued for Request for Preliminary Determination

drawing by: MP,AB,MR

drawing checked by: RC

drawing scale: 1"=40'

drawing date: 12.15.08

drawing revision:

project number: 07035.00

rev. description date

1 ADD GAS CONNECTION 1/6/2008

2 PRELIM. ELECT. EQUIP. 1/20/2009

3 ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION 2-18-2009

JAMES A. MAJOR

No. 3996

REGISTERED PROFESSIONAL ENGINEER

Utility Plan

C-4

7 of 18

LEGEND:

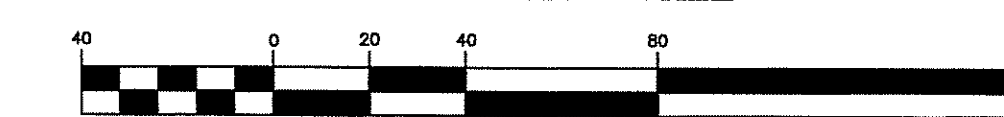
SEWER MANHOLE	⊙
SEWER CLEANOUT	⊙
SEWER VENT	⊙
SEWER LINE	—
CONCRETE PIPE ENCASUREMENT	—
WATER LINE	—
WATER (FIRE SERVICE)	—
WATER (DOMESTIC SERVICE)	—
WATER VALVE	WV
HYDRANT	⊙
WATER LINE REDUCER	—
GAS LINE	—
GAS VALVE	—
SEPTIC/HOLDING TANK	—
GREASE TRAP	—
LIGHT FIXTURE	—
OVER HEAD WIRE	—
UTILITY POLE	—
ELECTRIC MANHOLE/SPLICE BOX	—
SWITCHING STATION	—
HAND HOLE	—
ELECTRICAL CONDUIT	—
ELEC/TELE/CABLE CONDUIT	—
TELE/CABLE CONDUIT	—
TELE/FIRE CONDUIT	—
NSTAR CONDUIT	—
RCN CONDUIT	—
CINGULAR CONDUIT	—
TELE/CABLE/FIBEROPTIC	—
TELE/CABLE/FIRE ALARM	—

NOTES:

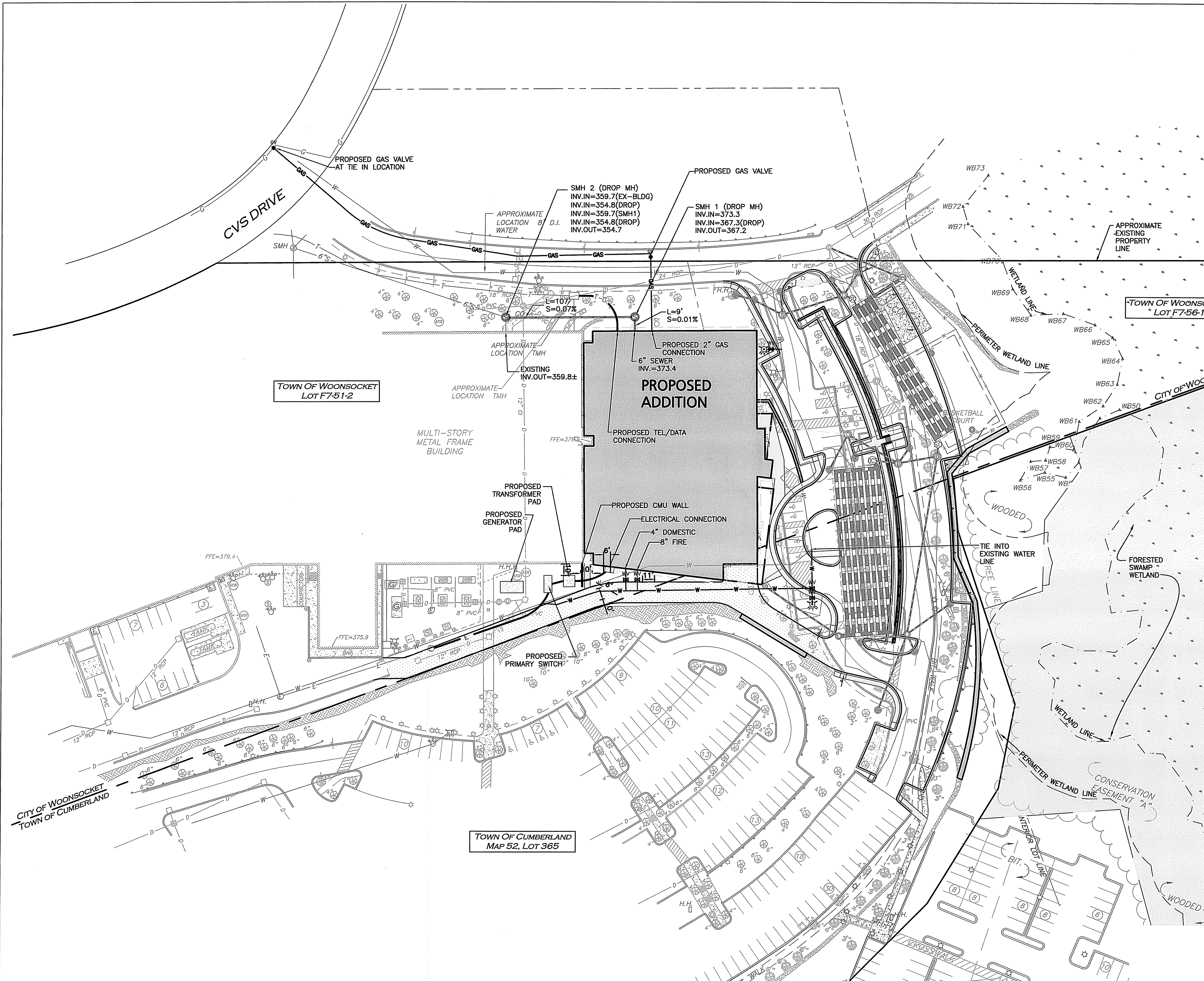
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- PROPOSED GAS LINE CONNECTION TO BE MADE INTERNALLY, IN BUILDING.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Herbert

GRAPHIC SCALE



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EROSION CONTROL AND SEDIMENT CONTROL NOTES:

1. AS A RI RIDEM REQUEST FOR PRELIMINARY DETERMINATION WETLAND FILING WILL BE SUBMITTED, A SEPERATE RIDEM RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PERMIT IS NOT REQUIRED ONCE THE PERMIT IS ISSUED. HOWEVER IF A SEPERATE RIPDES PERMIT IS REQUIRED, A (RIPDES) CONSTRUCTION GENERAL PERMIT NOI, AND STORM WATER POLLUTION PREVENTATION PLAN (SWPPP) WILL BE NECESSARY.
2. IF A SEPARATE RIDEM RIPDES PERMIT IS REQUIRED, THE RIPDES PERMIT FOR STORM WATER DISCHARGE, & CONSTRUCTION GENERAL PERMIT NOI WILL BE REQUIRED TO BE SUBMITTED AT LEAST 7 DAYS PRIOR TO COMMENCING CONSTRUCTION.
3. APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF WOONSOCKET, RI REGULATIONS AND CODES, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES REGULATIONS FOR THE RIPDES; JUNE 28, 1984 & AMENDED FEBRUARY 5, 2003. RIDEM, RHODE ISLAND DEM SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, USDA, SOIL CONSERVATION SERVICE VEGETATIVE PRACTICES IN SITE DEVELOPMENT, O.S.H.A. STANDARDS, AND THE CITY OF WOONSOCKET PUBLIC WORKS DEPARTMENT SPECIFICATIONS.
4. SILT CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 1992 "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL. ANY SUCH MODIFICATIONS SHALL BE INSTALLED AS APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL CONDUCT INSPECTIONS AFTER EACH RAINFALL EVENT IN ADDITION TO WEEKLY INSPECTIONS & MAINTAINING A LOG IN ACCORDANCE WITH RI DEM, AND CITY OF WOONSOCKET, RI.
6. AREAS OF EXPOSED SOIL UNDERGOING CONSTRUCTION THAT WILL NOT BE COVERED AND OR FINISHED GRADED WITHIN 7 DAYS OF EXPOSURE SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL MEASURES WITHIN 7 DAYS OF DISTURBANCE. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE EROSION CONTROL MESH, NETTING OR MULCH AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND SHOWN ON THE DESIGN PLANS. IF MULCH IS USED, HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATE OF 2 BALES PER 1,000 SQUARE FEET. APPLICATION AREA SHALL BE SUFFICIENTLY COVERED WITH MULCH TO AVOID ANY VISIBLE SOIL EXPOSURE. MULCH SHALL BE KEPT MOIST TO AVOID LOSS DUE TO WIND. MULCH AND NETTING SHALL BE APPLIED IN THE BASE OF ALL GRASSED WATERWAYS AND IN VEGETATIVE SLOPES WHICH EXCEED 15% AND DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS.
7. IF DISTURBED AREAS DO NOT RECEIVE FINAL SEEDING BY SEPTEMBER 15 OF THE CONSTRUCTION YEAR, THEN ALL DISTURBED AREAS SHALL BE SEEDED WITH A WINTER COVER CROP AT THE RATE OF 3 LBS PER 1,000 SQUARE FEET. WINTER SEEDING SHALL BE COVERED WITH EROSION CONTROL MESH (MULCH AND NETTING). HEAVY GRADE MATS SHALL BE USED IN THE BASE OF ALL GRASSED WATERWAYS ON VEGETATED SLOPES IN EXCESS OF 15%, AND ANY DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS. MULCH AND NETTING SHALL ALSO BE PROVIDED FOR ADDITIONAL WINTER PROTECTION.
8. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH HAY AND MULCH (AT 100LBS/1,000 SF), OR WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR 90 DAYS OR MORE SHALL BE SEEDED WITH WINTER RYE (FOR FALL SEEDING AT 3LB/1,000 SF) OR OATS (FOR SUMMER SEEDING AT 2LB/1,000 SF) AND THEN COVERED WITH HAY MULCH (AT 100LB/1,000 SF) OR AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL. LOAM SHALL BE STOCKPILED AT LOCATIONS DESIGNATED BY THE OWNER AND ENGINEER.
9. ALL FILTER BARRIERS, SILT SACKS, AND EROSION CONTROL BERMS SHALL BE INSTALLED ACCORDING TO THE EROSION CONTROL PLAN. THESE SHALL BE MAINTAINED DURING CONSTRUCTION TO REMOVE SEDIMENT FROM RUNOFF WATER. ALL THE FILTER BARRIERS AND EROSION CONTROL BERMS SHALL BE INSPECTED AFTER ANY RAINFALL OR RUNOFF EVENT, MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE AT LEAST 85-90% VIGOROUS PERENNIAL COVER OF GRASSES.
10. THE EXISTING PARKING LOT SHALL BE PERIODICALLY SWEPT OR WASHED TO AVOID TRACKING MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. A WATERING TRUCK WILL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED.
11. THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. CATCH BASIN INLETS SHALL ALSO BE PROTECTED DURING CONSTRUCTION BY THE USE OF STRAW BALE BARRIERS AROUND EACH INLET. SILT SACKS SHALL BE INSTALLED IN ALL EXISTING BASINS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.
12. REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON THE COMPLETION OF CONSTRUCTION. FOLLOWING SEED BED PREPARATION, SWALE AREAS, FILL AREAS AND BACK SLOPES SHALL BE SEEDED AT A RATE OF 3LBS PER 1,000 S.F. WITH A MIXTURE OF 35% CREEPING RED FESCUE, 6% RED TOP, 24% KENTUCKY BLUEGRASS, 10% PERENNIAL RYE GRASS, 20% ANNUAL RYE GRASS AND 5% WITH DUTCH COVER.
13. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWED:

10-20-20 FERTILIZER (N-P205-K20 OR EQUAL) - APPLICATION RATE= 18.4 LB/1,000 S.F.
GROUND LIMESTONE (50% CALCIUM & MAGNESIUM OXIDE) - APPLICATION RATE= 138 LB/1,000 S.F.
14. LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE PER SPECIFICATIONS. LOAM SHALL BE FREE OF SOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 1 INCH IN DIAMETER, AND WITHOUT WEEDS, ROOTS OR OTHER DELETERIOUS MATERIAL.
15. EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDED AREAS AS SPECIFIED ON THE DESIGN PLANS.
16. ALL HAY BALE AND FILTER FABRIC SHALL REMAIN IN PLACE UNTIL SEEDINGS HAVE BECOME 85-90% ESTABLISHED AND THEN REMOVED WITHIN 10 DAYS.
17. AT THE OWNER'S DISCRETION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EARTHWORKS AND FINISHED GRADED AREAS. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL MEASURES AS SPECIFIED BY THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO REQUESTS BY MADEP AND THE MUNICIPALITY, AS AUTHORIZED BY THE OWNER.
18. INSPECTIONS AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. WEEKLY INSPECTIONS SHALL BE HELD THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. WEEKLY INSPECTION REPORTS SHALL BE MAINTAINED IN THE CONTRACTORS FIELD OFFICE. IN ADDITION TO THE NORMAL WEEKLY INSPECTIONS, THE CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL EROSION CONTROL MEASURES AFTER EACH RAINFALL OR RUNOFF EVENT, AND PERFORM THE NECESSARY REPAIRS. THE INSPECTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE SITE'S DOWN STREAM DISCHARGE POINTS.
19. IF ANY EVIDENCE OF SEDIMENTATION IS OBSERVED IN THE INLETS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE A PLAN TO THE ENGINEER TO REMOVE ANY ACCUMULATED SEDIMENT IN THESE AREAS. THE CONTRACTOR SHALL ALSO IMMEDIATELY PROVIDE ADDITIONAL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT FURTHER DEGRADATION OF THE AREA.
20. FOLLOWING THE TEMPORARY OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA BIMONTHLY TO ENSURE THE AREAS HAVE A MINIMUM OF 85-90% VEGETATED VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW UP INSPECTIONS IN THE EVEN OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.
21. THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION BY THE USE OF STRAW BALE BARRIERS AROUND EACH INLET. SILT SACKS SHALL BE INSTALLED IN ALL EXISTING BASINS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.

EROSION CONTROL AND SEDIMENT CONTROL NOTES CONTINUED:

22. EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDED AREAS AS SPECIFIED ON THE DESIGN PLANS.
23. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION GENERAL PERMIT NOTES

THE EROSION CONTROL PLAN WILL BE IMPLEMENTED TO:

- A. TREAT EROSION AS SOON AS POSSIBLE AFTER DISTURBANCE.
- B. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE WETLANDS.
- C. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
- D. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN AND NOTES, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

APPROXIMATE SEQUENCE OF CONSTRUCTION:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. CONSTRUCT THE SILT FENCE, HAYBALES ON THE SITE.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
5. CLEAR AND GRUB THE SITE.
6. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL SITE CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
7. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
8. CONSTRUCT DETENTION AREA.
9. BEGIN GRADING THE SITE.
10. TEMPORARILY SEED DENUDED AREAS.
11. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
12. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
13. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
14. PREPARE SITE FOR PAVING.
15. PAVE SITE.
16. NSTALL INLET PROTECTION DEVICES.
17. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
18. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).

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Building 4 Expansion

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**Issued for Request
for Preliminary
Determination**

drawing by: MPAB,MR

drawing checked by: RC

drawing scale: AS NOTED

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project number: 07035.00

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1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

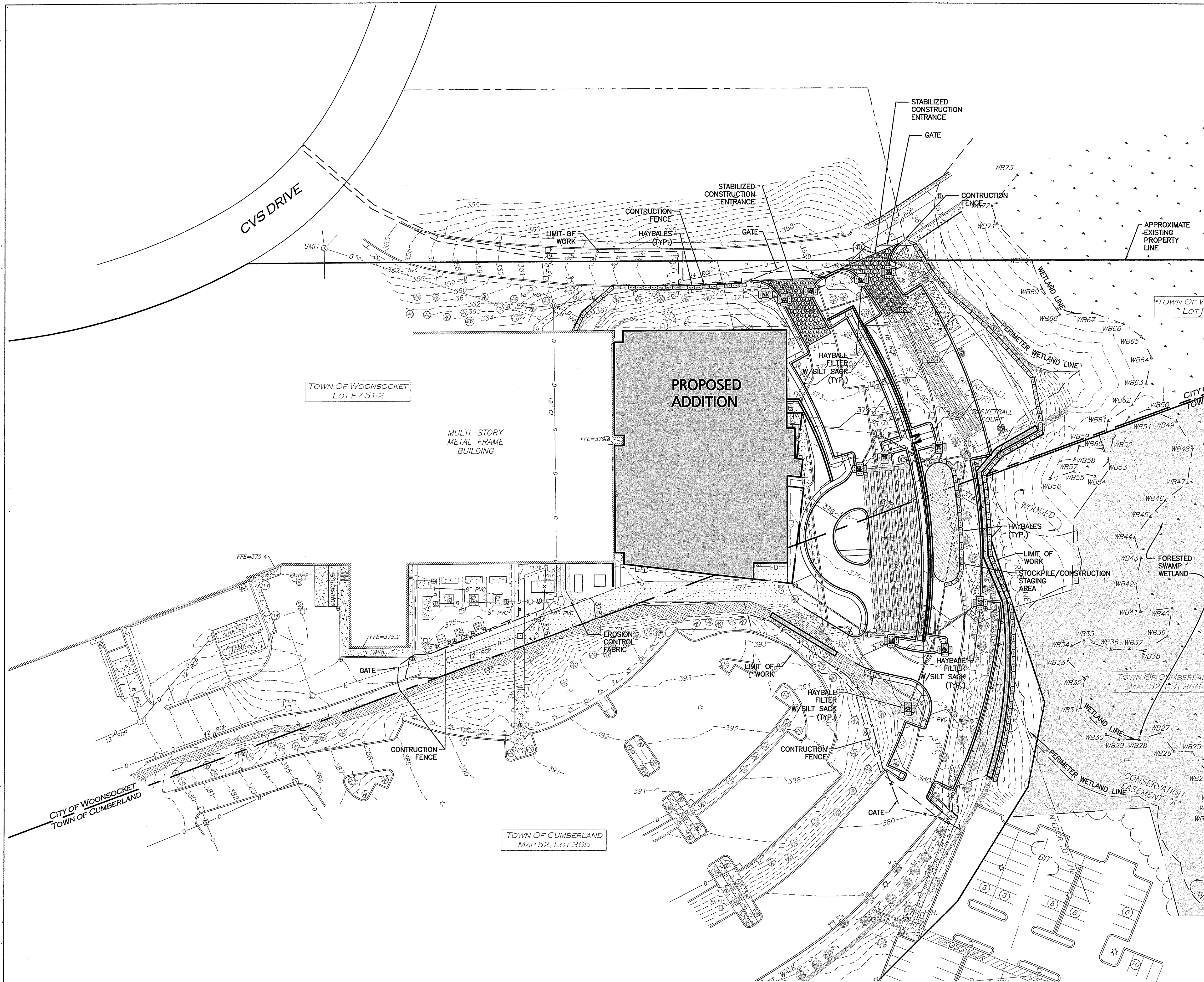
JAMES A. MAJOR

No. 3986

REGISTERED PROFESSIONAL ENGINEER

**Erosion
Control
Plan**

C-5A
8 of 18



LEGEND:

SILT FENCE	— SF —
HAYBALE LINE	— H —
EROSION CONTROL FABRIC	— E —
HAYBALE FILTER W/ SILT SACK	— F —
STABILIZED CONST. ENTRANCE	— S —
PROPOSED GRADING	— 370 —
STOCKPILE/CONSTRUCTION STAGING AREA	— S —
LIMIT OF WORK	— L —

- NOTES:**
- SEE SHEET C-5A FOR EROSION CONTROL NOTES.
 - SEE SHEET 1 FOR EXISTING CONDITIONS.
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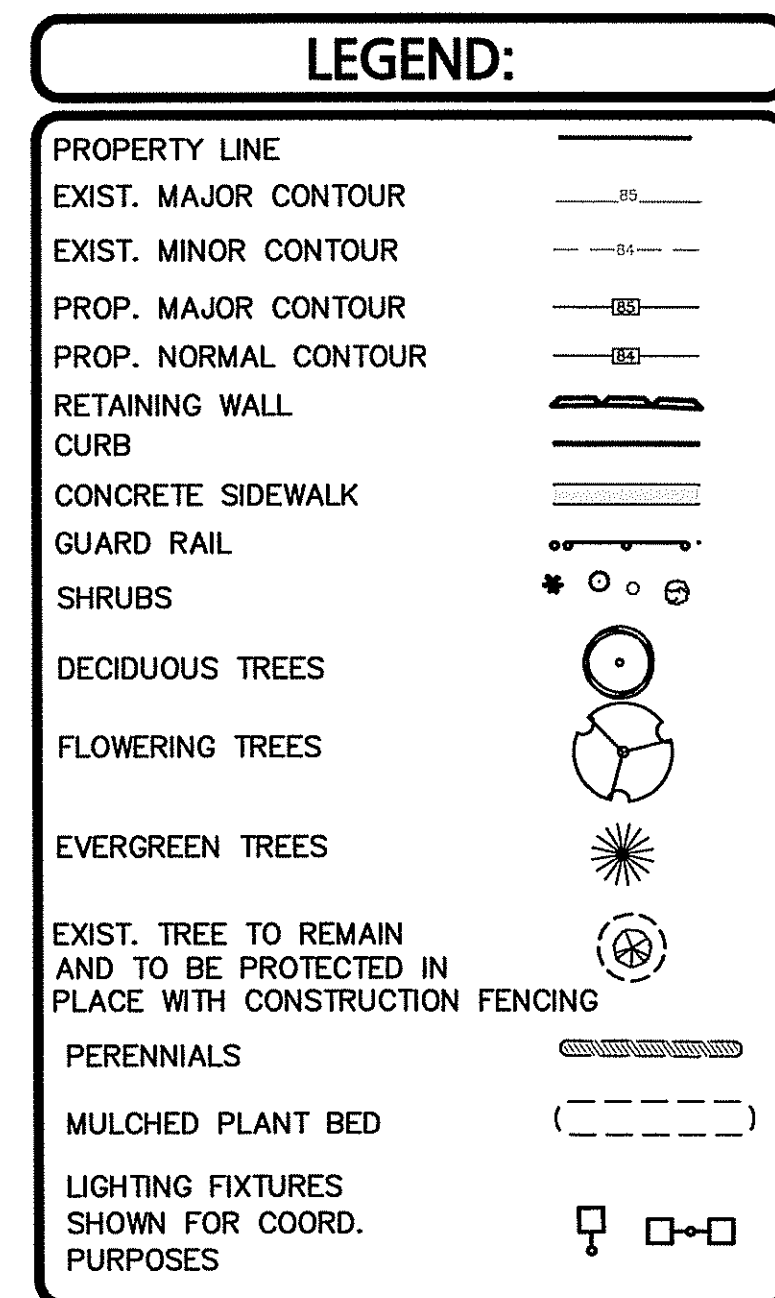
Issued for Request for Preliminary Determination

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drawing revisions:
project number: 07035.00

rev.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

JAMES A. MAJOR
No. 3986
REGISTERED PROFESSIONAL ENGINEER
Erosion Control Plan

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS DIVISION
APPROVED WITH COMMENTS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL
Charles H. Harte



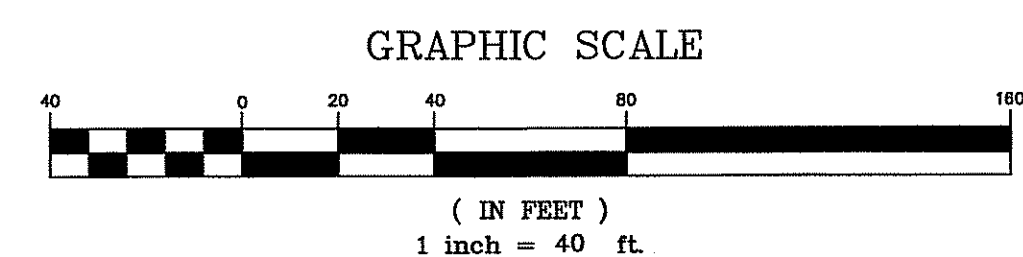
1. SEE SHEET A-1 FOR ABBREVIATIONS, LEGEND & NOTES.
2. SEE SHEET 1 FOR EXISTING CONDITIONS.

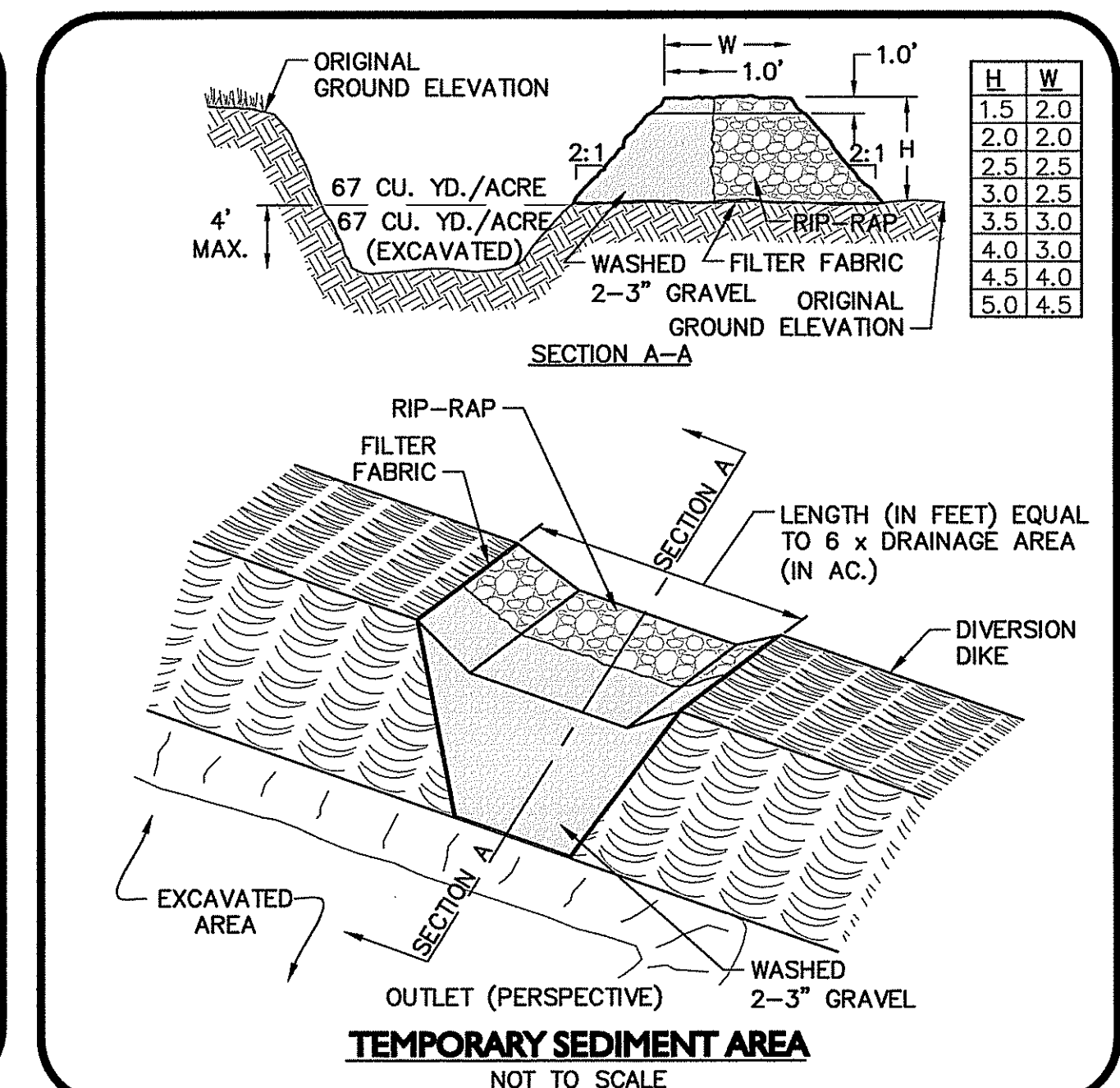
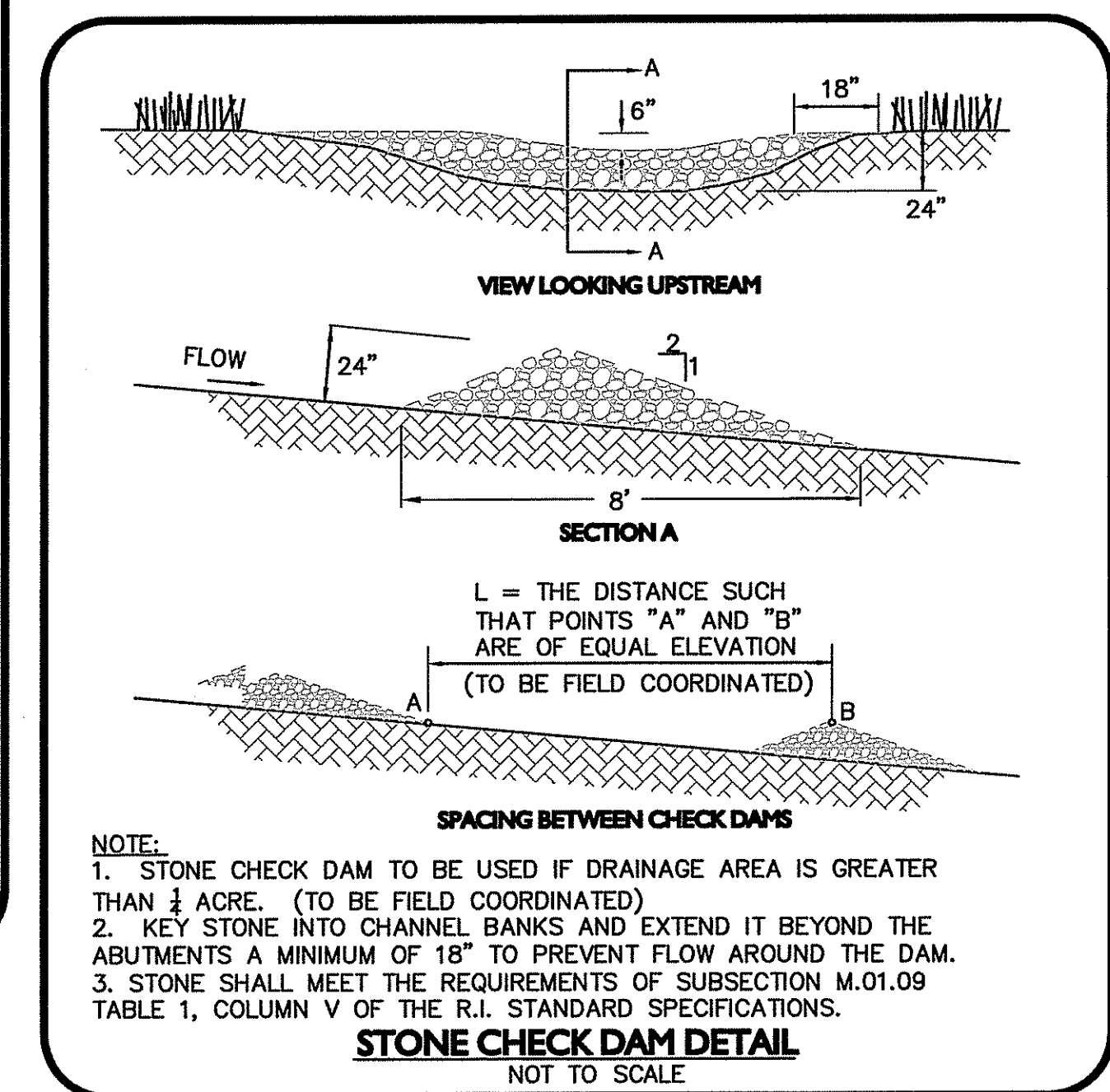
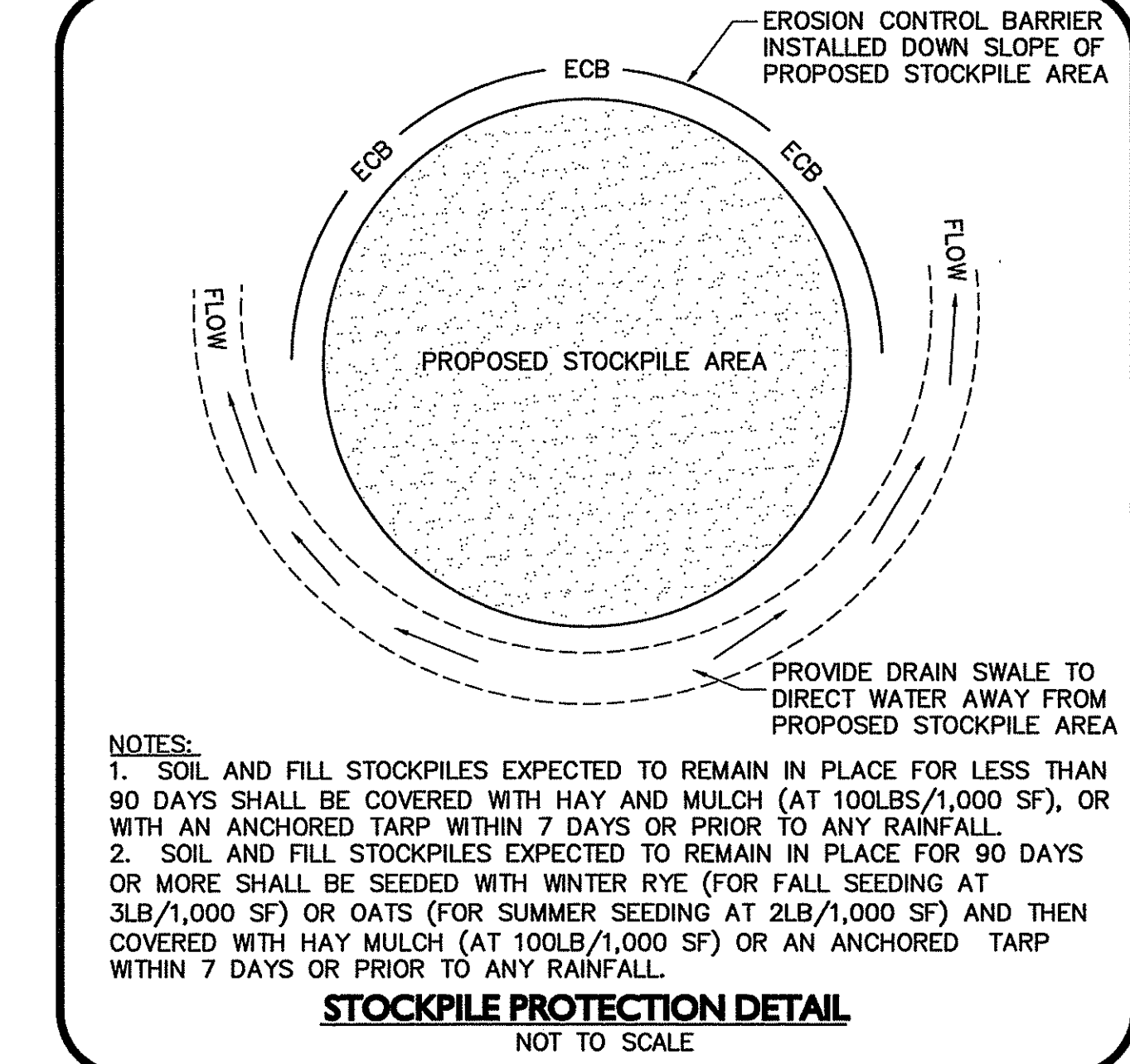
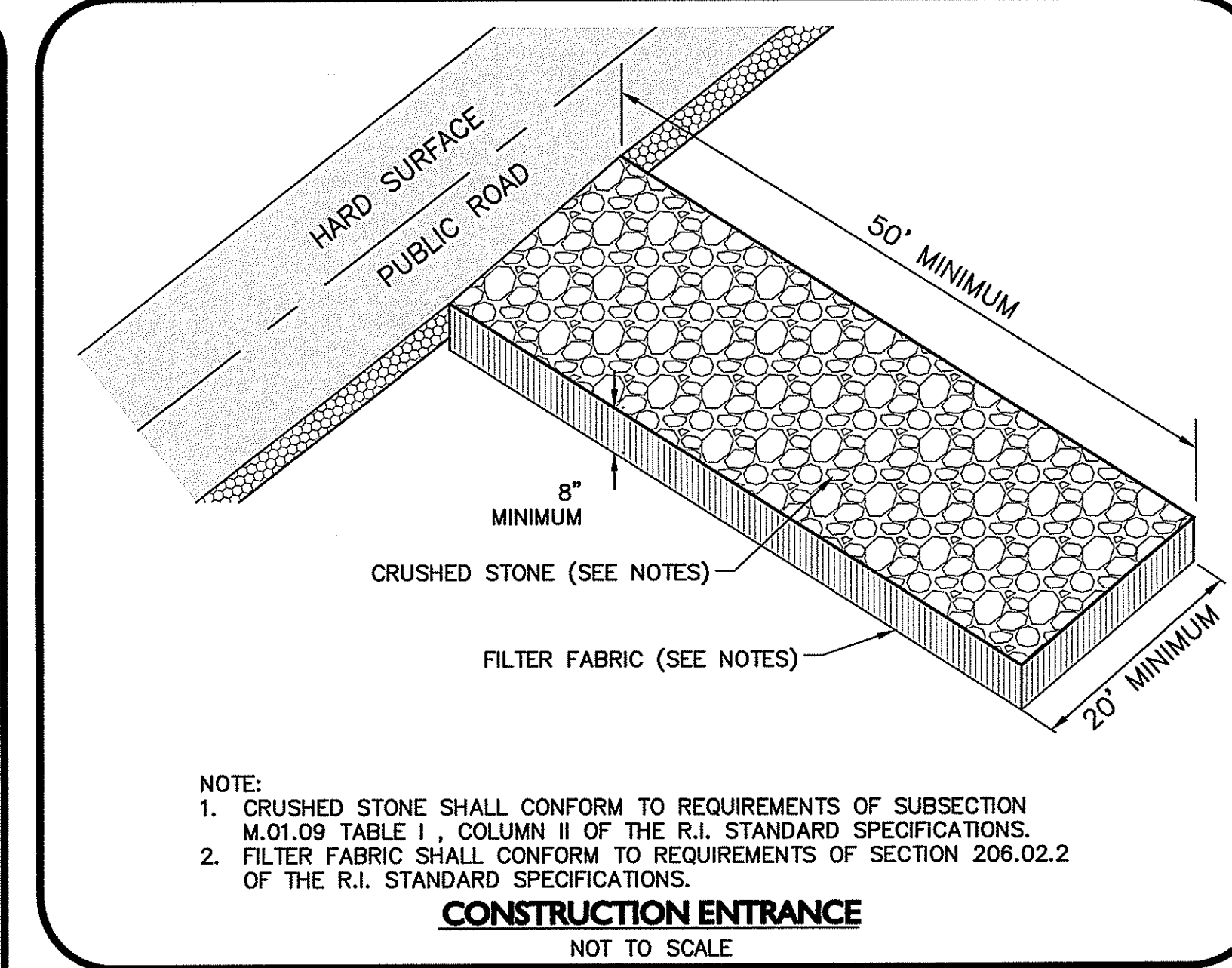
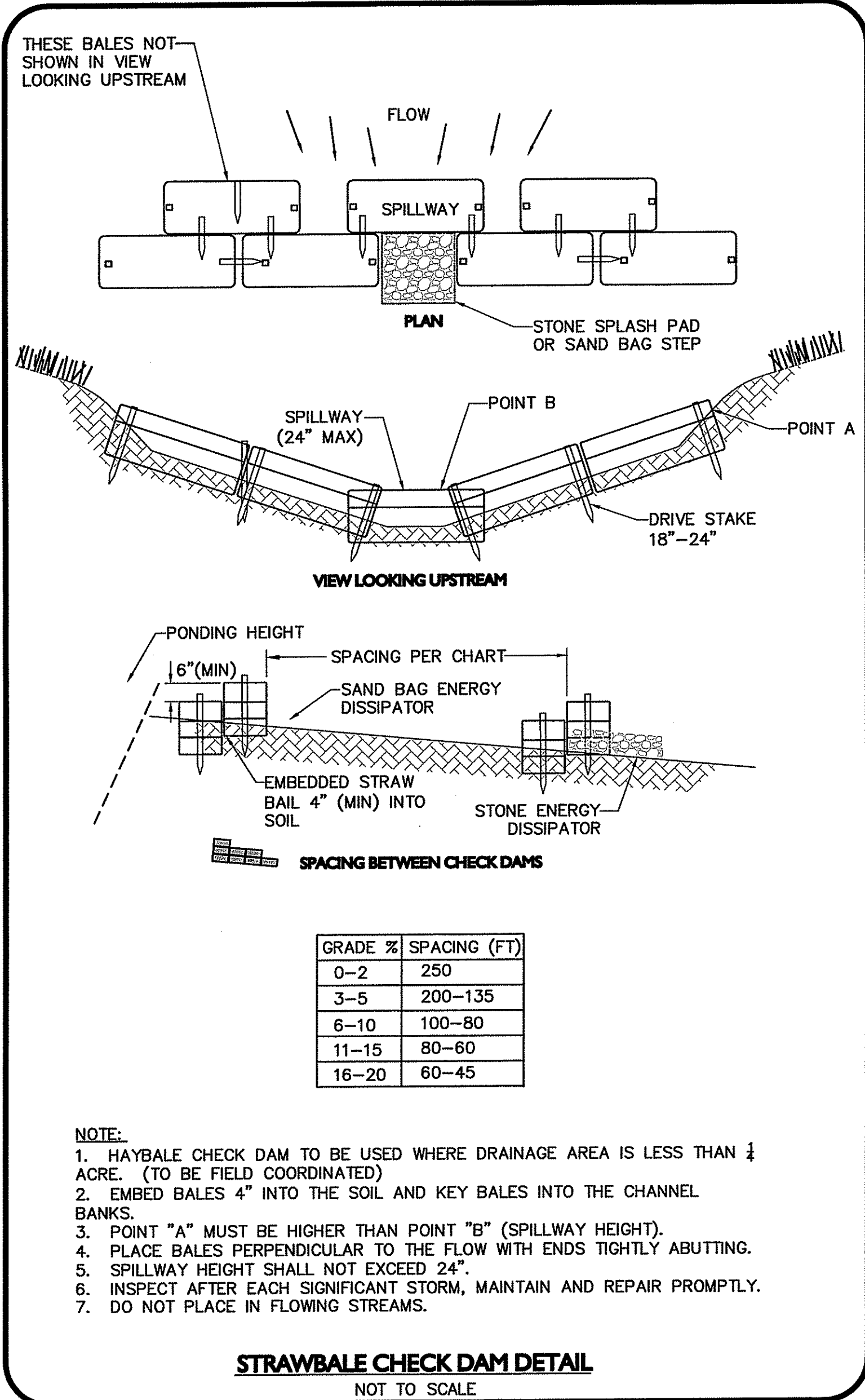
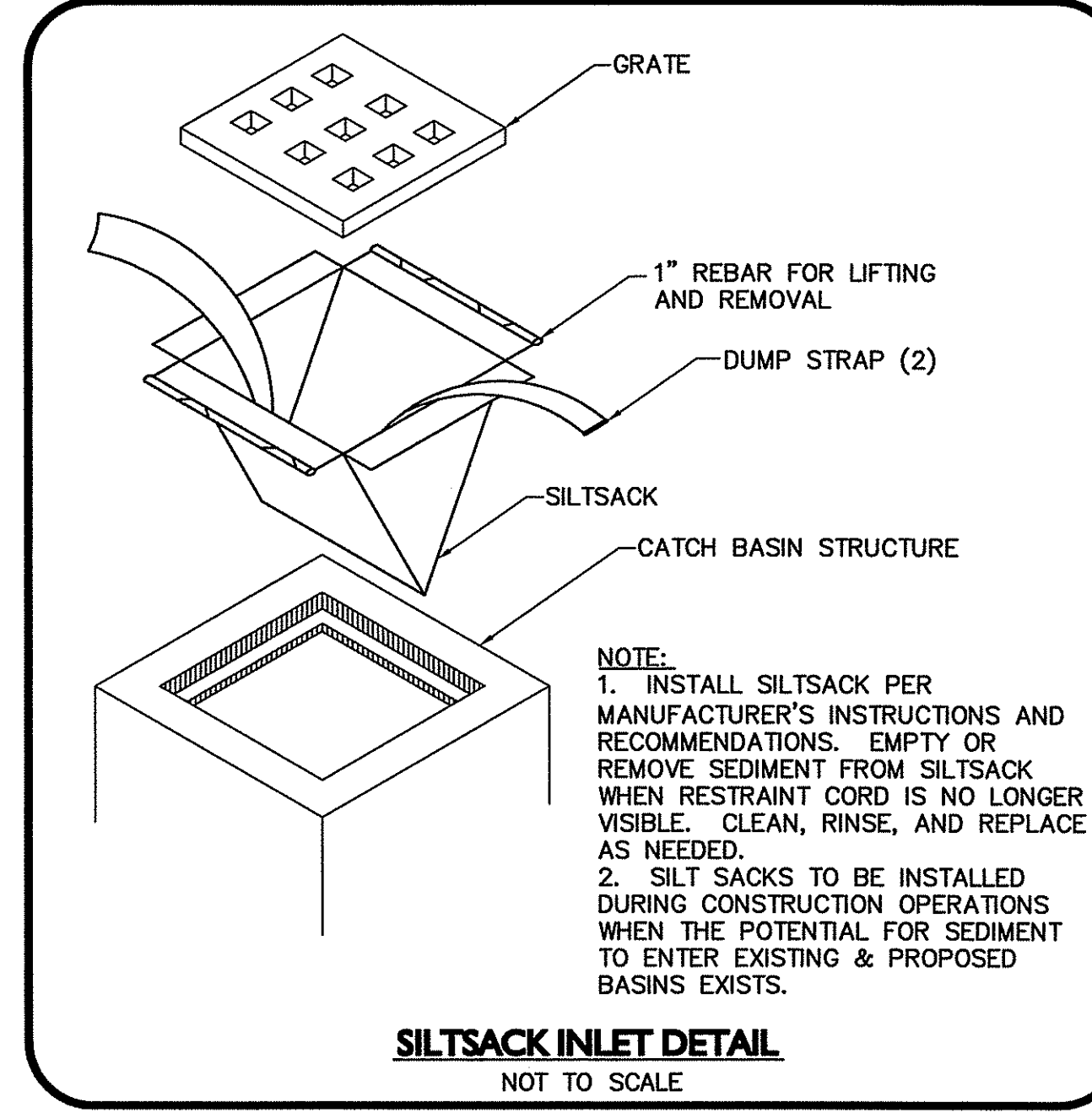
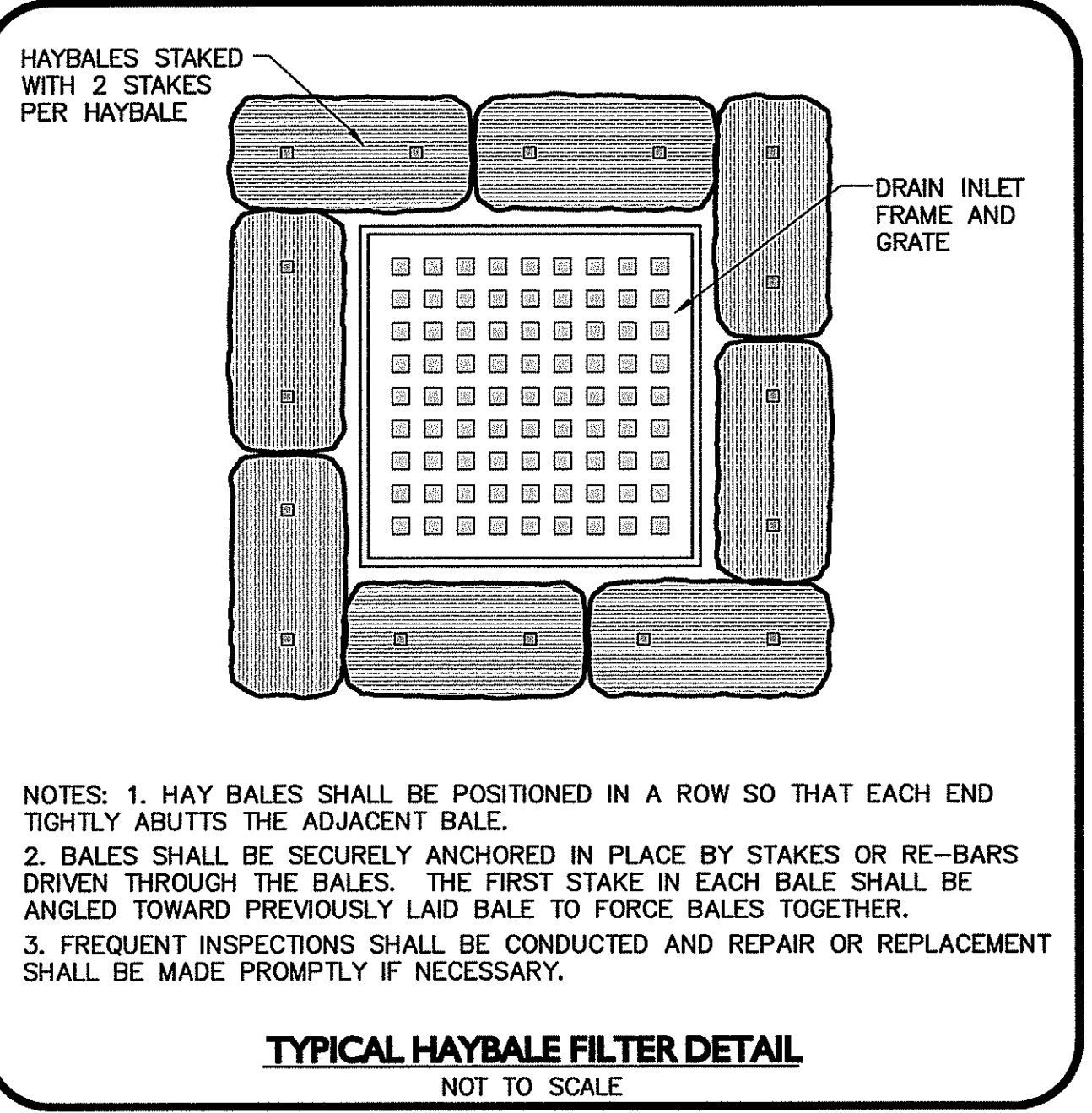
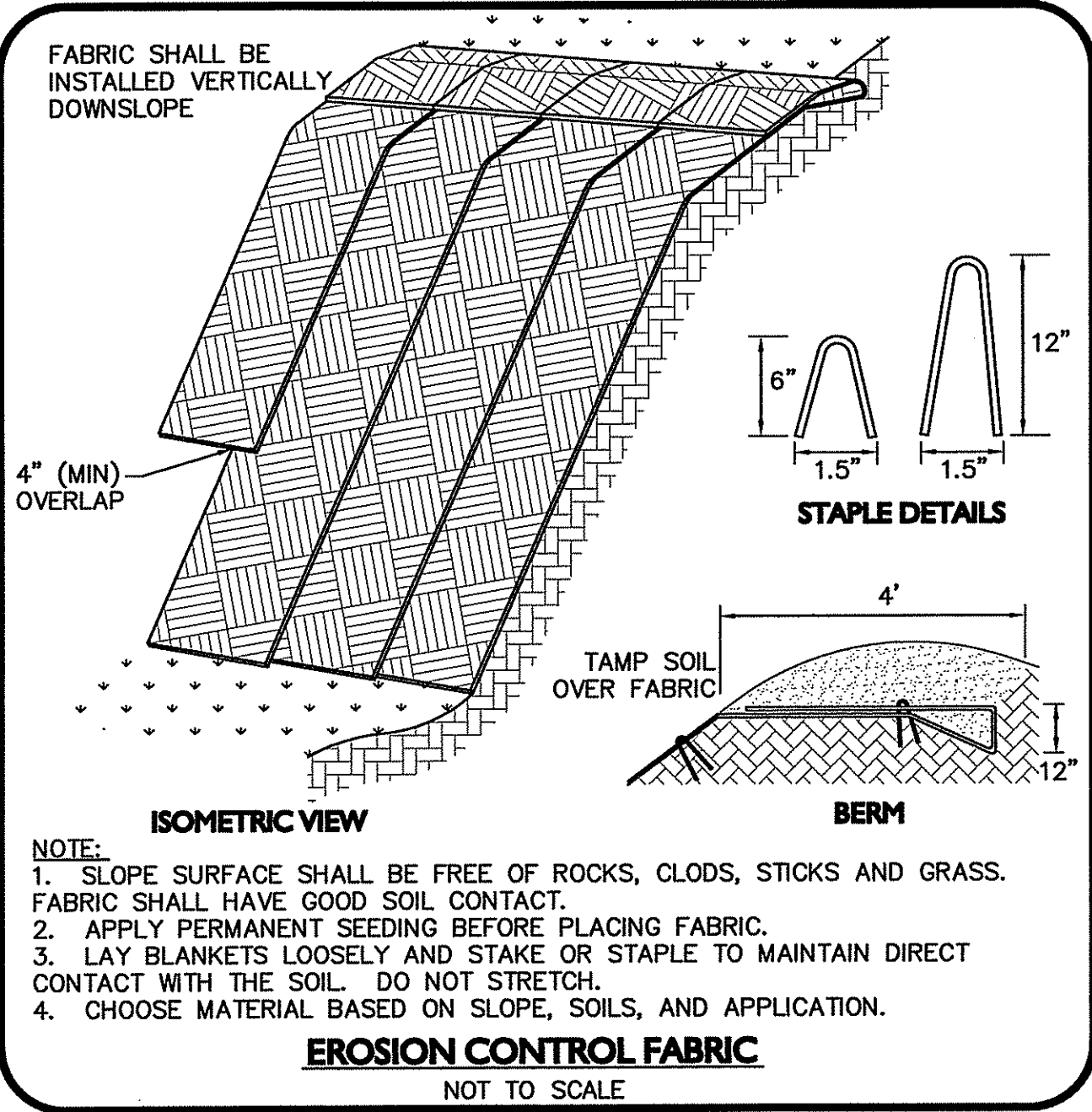
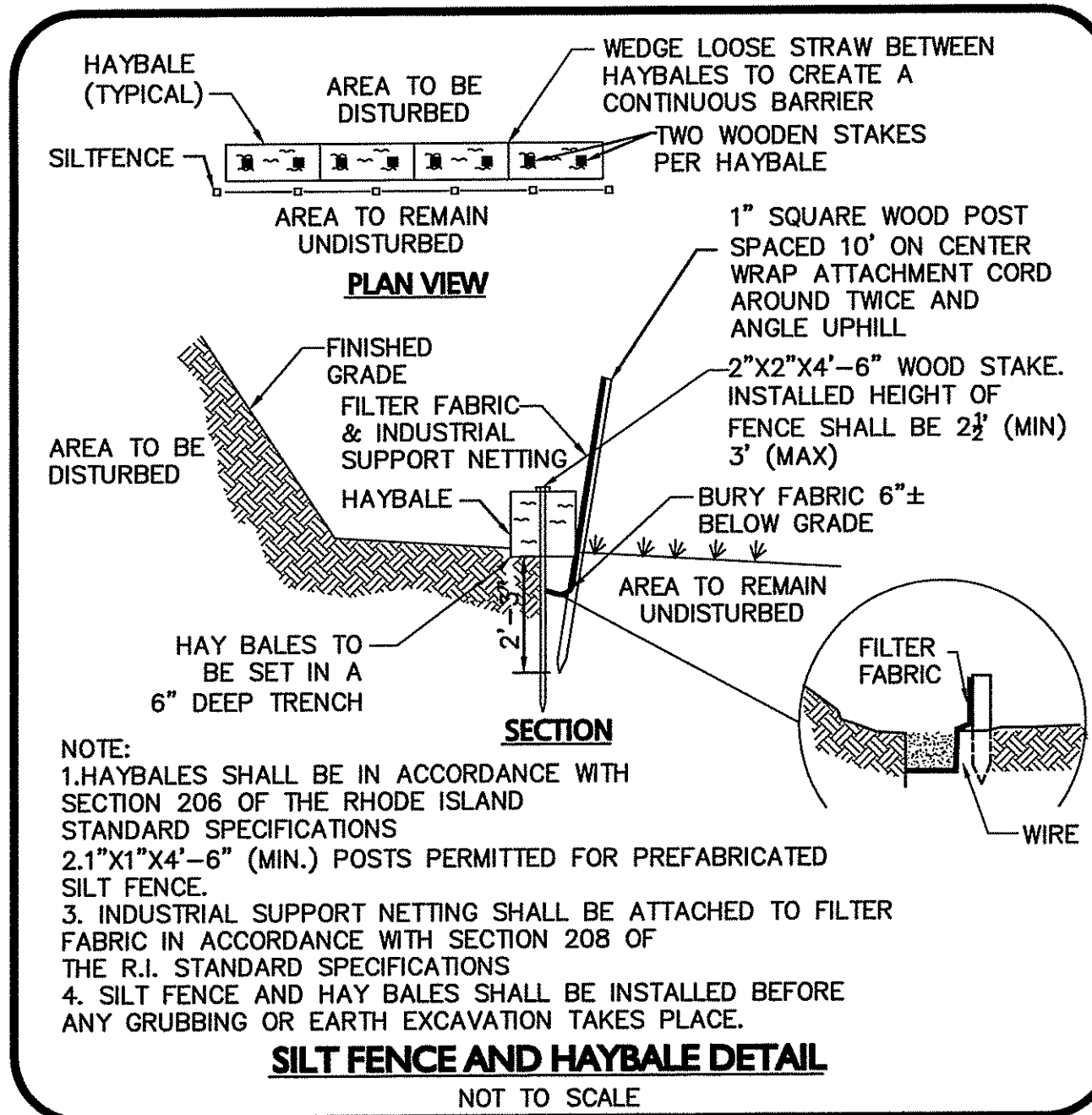
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KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	2	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	3"-3.5" CAL	AS SHOWN	B&B
BN	4	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	3"-3.5" CAL	AS SHOWN	B&B
FP	3	FRAXINUS PENNSYLVANICA 'SUMMIT'	SUMMIT GREEN ASH	3"-3.5" CAL	AS SHOWN	B&B
QP	3	QUERCUS PALASTRIS	PIN OAK	3"-3.5" CAL	AS SHOWN	B&B
TC	5	TILIA CORDATA 'GREENSPIRE'	LITTLELEAF LINDEN	3"-3.5" CAL	AS SHOWN	B&B
EVERGREEN / FLOWERING TREES						
AC	6	ABIES CONCOLOR	WHITE FIR	10-12'		
AM	6	AMELANCHIER CANADENSIS	SERVICEBERRY	10-12' HT.	AS SHOWN	B&B
CK	6	CORNUS KOUSA	KOUSA DOGWOOD	3"-3.5" CAL	AS SHOWN	B&B
MG	3	MALUS DONALD WYMAN	DONALD WYMAN CRABAPPLE	3"-3.5" CAL	AS SHOWN	B&B
PS	3	PICEA LAUCA	WHITE SPRUCE	8-9'	AS SHOWN	B&B
PCC	7	PYRUS CALLERY 'CHANTICLEER'	CLEVELAND SELECT PEAR	3"-3.5" CAL	AS SHOWN	B&B
SHRUBS						
AZ	21	AZALEA DELAWARE VALLEY WHITE	AZALEA	3' TO 3.5'	AS SHOWN	#5 POT
IG	56	ILLEX GLABRA 'SHAMROCK'	INKBERRY	3' TO 3.5'	AS SHOWN	#5 POT
JC	3B	JUNIPERUS CHINENSIS 'BLUE POINT'	BLUE POINT JUNIPER	3' TO 3.5'	AS SHOWN	#3 POT
RB	63	RHODODENDRON 'BOULE DE NEIGE'	RHODODENDRON	3' TO 3.5'	AS SHOWN	#5 POT
RCC	9	RHODODENDRON CANADENSE	RHODODENDRON	3' TO 3.5'	AS SHOWN	#3 POT
IMB	2	ILLEX MESERVEA 'CHINA BOY'	CHINA BOY HOLLY	3' TO 3.5'	AS SHOWN	#5 POT
IMG	28	ILLEX MESERVEA 'CHINA GIRL'	CHINA GIRL HOLLY	3' TO 3.5'	AS SHOWN	#5 POT
VT	23	VIBURNUM TRILOBUM	AMERICAN CRANBERRY	6' TO 7'	AS SHOWN	#5 POT
PERENNIALS						
AS	38	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	#2 POT	18" O.C.	STAGGERED
CA	32	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	#3 POT	24" O.C.	STAGGERED
EC	51	ECHINACEA PURPUREA	PURPLECONE FLOWER	#2 POT	18" O.C.	STAGGERED
HC	134	HEMEROCALLIS 'CHICAGO APACHE'	DAYLILY	#2 POT	18" O.C.	STAGGERED
HH	95	HEMEROCALLIS 'HAPPY RETURNS'	DAYLILY	#2 POT	18" O.C.	STAGGERED
HRH	124	HEMEROCALLIS 'ROSEY RETURNS'	DAYLILY	#2 POT	18" O.C.	STAGGERED
SA	25	SEDUM AUTUMN JOY	SEDUM	#3 POT	24" O.C.	STAGGERED
SJ	24	SPIREA JAPONICA 'LITTLE PRINCESS'	JAPANESE SPIREA	#3 POT	24" O.C.	STAGGERED

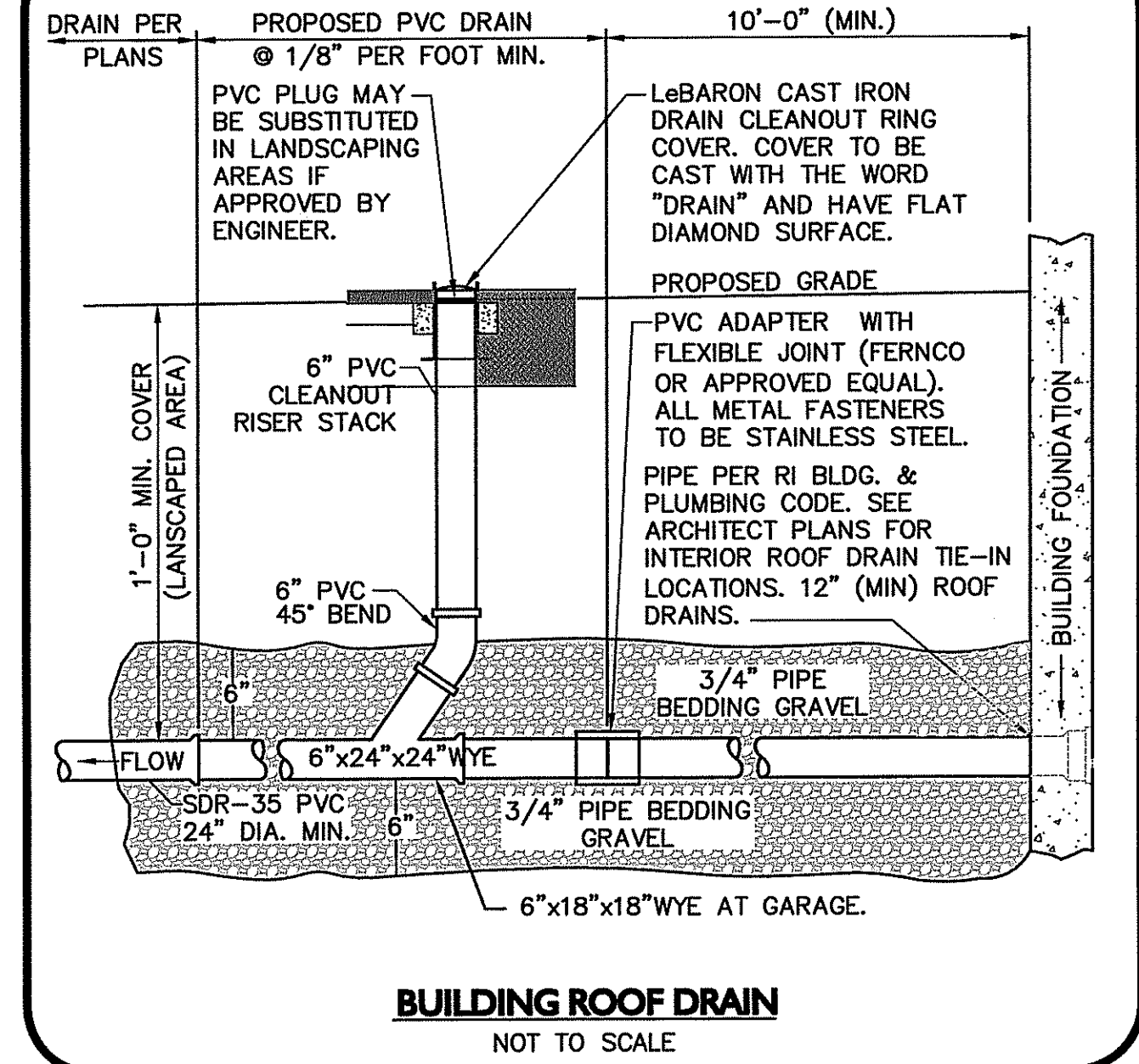
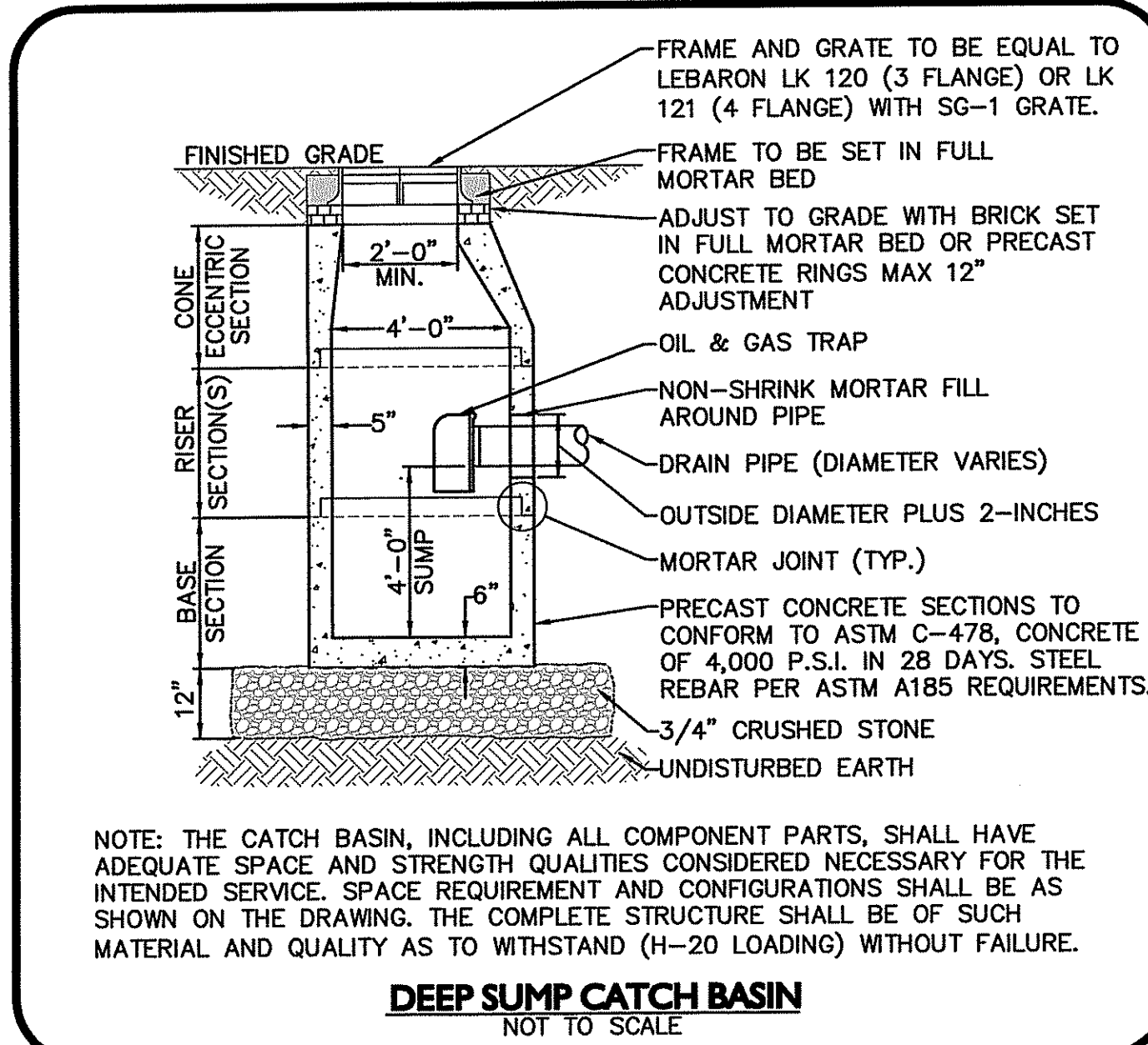
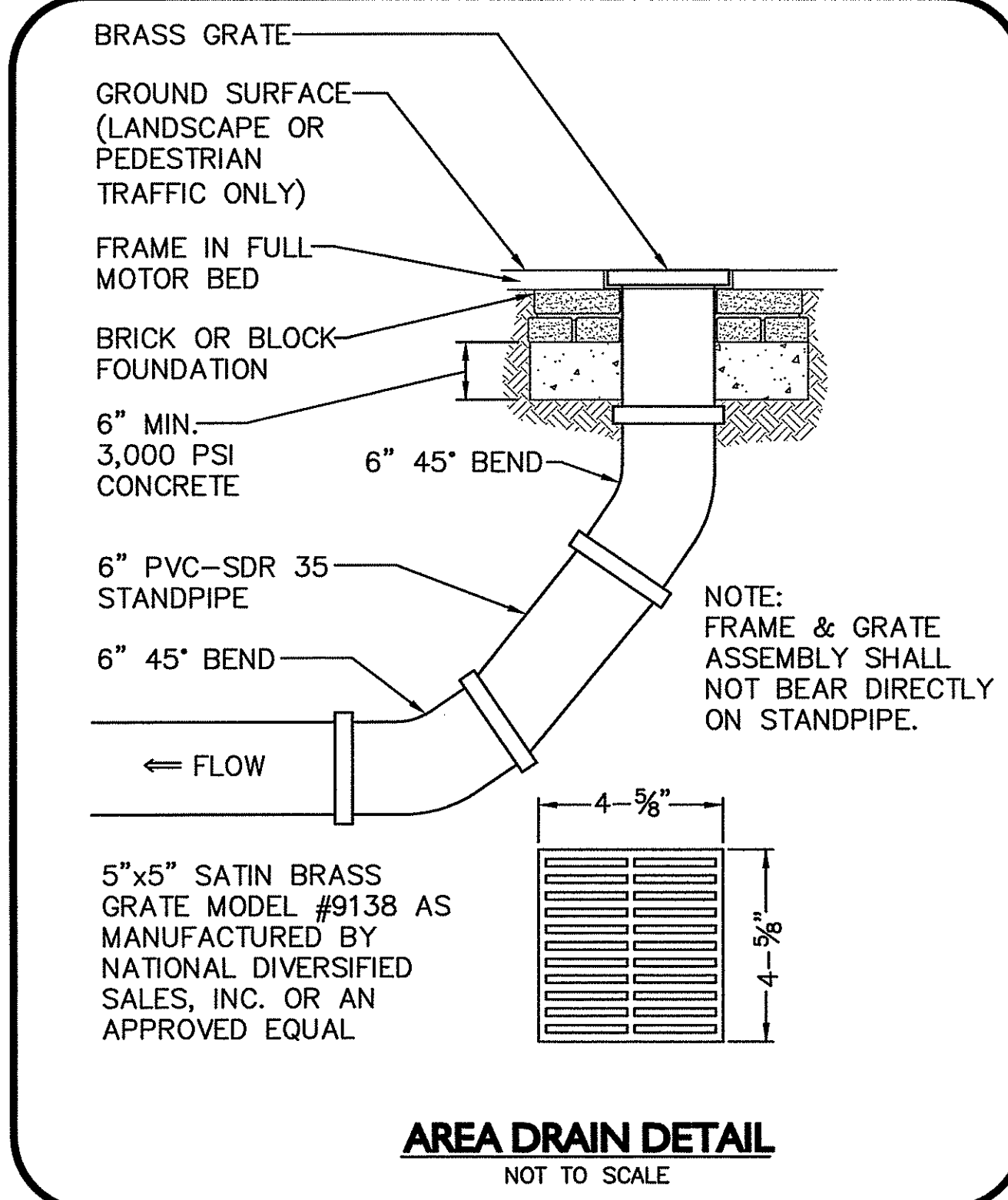
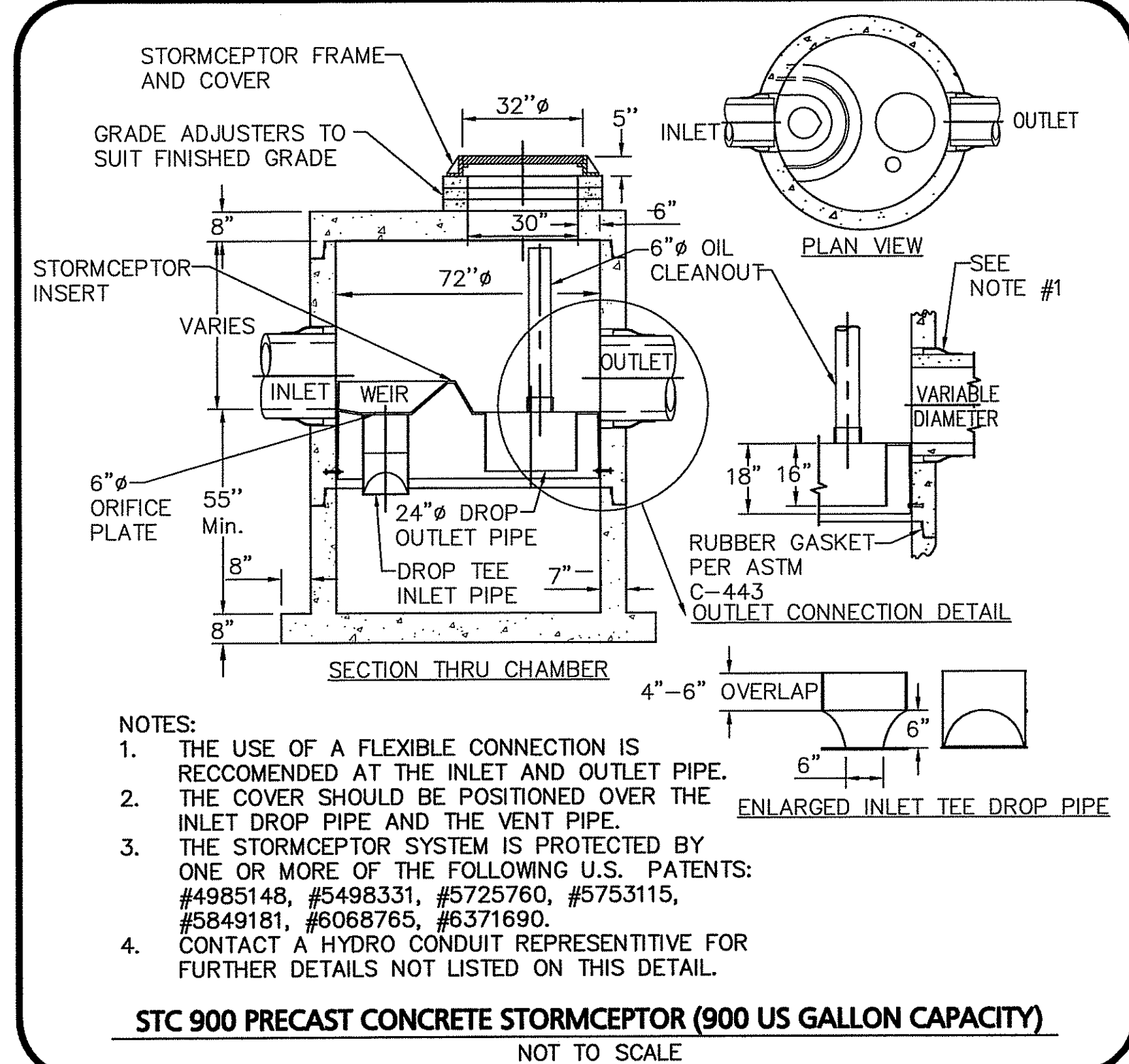
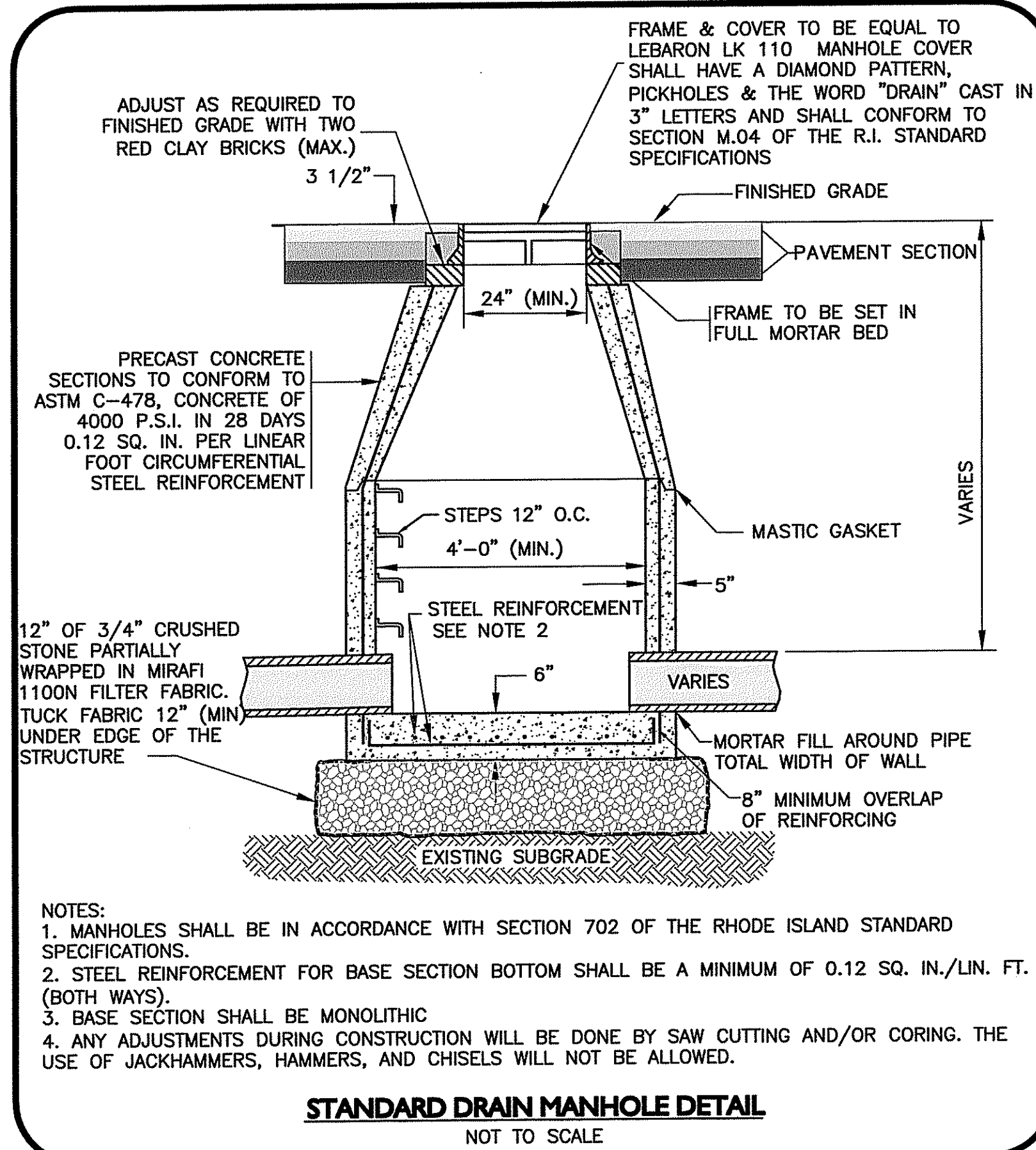
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITIES OF WOONSOCKET AND CUMBERLAND, RI
2. PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS IN WRITING.
4. NO PLANT MATERIAL SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA, ANY TREES NOTED AS "SEAL OR SELECTED SPECIMEN" SHALL BE TAGGED AND SEALED BY THE LANDSCAPE ARCHITECT.
5. ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.

8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE.
10. ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED. LAWNS WITH OVER 3:1 SLOPES SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET.
11. ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG AND PLANTED IN THE SPRING.
12. TREES SHALL HAVE A MINIMUM CALIPER OF 3-3.5" ONE FOOT ABOVE THE ROOT CROWN.
13. ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH, AND GROUND COVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH.
14. ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7' OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.
15. ALL TREE STAKES SHALL BE STAINED DARK BROWN.
16. CONTRACTOR RESPONSIBLE FOR WATERING, AND RESEEDING OF BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
17. ALL PARKING ISLANDS PLANTED WITH SHRUBS SHALL HAVE 24" OF TOP SOIL. FINISH GRADE SHALL BE EQUAL TO THE TOP OF CURB.
18. SOIL SAMPLES AND TESTS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER.
19. CONTRACTOR TO REMOVE, SALVAGE, STOCKPILE, AND IMMEDIATELY RELOCATE EXISTING TREES, SHRUBS AND PERENNIALS DISPLACED BY THE BUILDING ADDITION, PARKING, AND SITE IMPROVEMENTS. PLANT MATERIALS TO BE RETAINED AND RELOCATED AS DIRECTED BY OWNER. CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING HEALTH, AND WATERING OF PLANTINGS AND UNTIL PLANTS ARE ESTABLISHED AND ACCEPTED BY OWNER.
20. SPREAD NEW ENGLAND CONSERVATION / WILDLIFE MIX MIX AND NEW ENGLAND EROSION CONTROL / RESTORATION MIX FOR MOIST SITES AT AREAS SHOWN ON THE PLAN. BOTH SEED MIXES WILL BE SPREAD AT A RATIO OF 1 LB PER 600 SQ. FT AS AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, INC. 820 WEST ST., AMHERST, MA, 413-548-8000. SEEDED AREAS TO BE TEMPORARILY IRRIGATED UNTIL ESTABLISHMENT AND ACCEPTANCE. A NON-INVASIVE WINTER RYE MAY BE ADDED TO THE MIX TO OBTAIN SOIL STABILIZATION IN THE FALL.





drawing by:	MP,AB,MR	
drawing checked by:	RC	
drawing scale:	As Noted	
drawing date:	12.15.08	
drawing revisions:		
project number:	07035.00	
rev.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009



Building 4 Expansion
1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

CVS CAREMARK
Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

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environmental consulting • landscape architecture
250 COMMERCIAL STREET
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FAX: (603) 627-5501
WOONSOCKET, RI • MIDDLETOWN, MA • MANCHESTER, NH

BER
BUILDING ENGINEERING RESOURCES, INC.
28 Main Street, Bldg. 3A 1240 Providence Avenue
No. Easton, MA 02556 E. Providence, RI 02916
TEL: (401) 235-0500 TEL: (401) 455-6002
FAX: (401) 235-0205 FAX: (401) 455-6008
BER@BER-Engineering.com www.ber-engineering.com

VEITAS VEITAS
engineers
630 Granite Street, Suite 100
Barnstable, Massachusetts 02536
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RECEIVED
FEB 23 2009
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

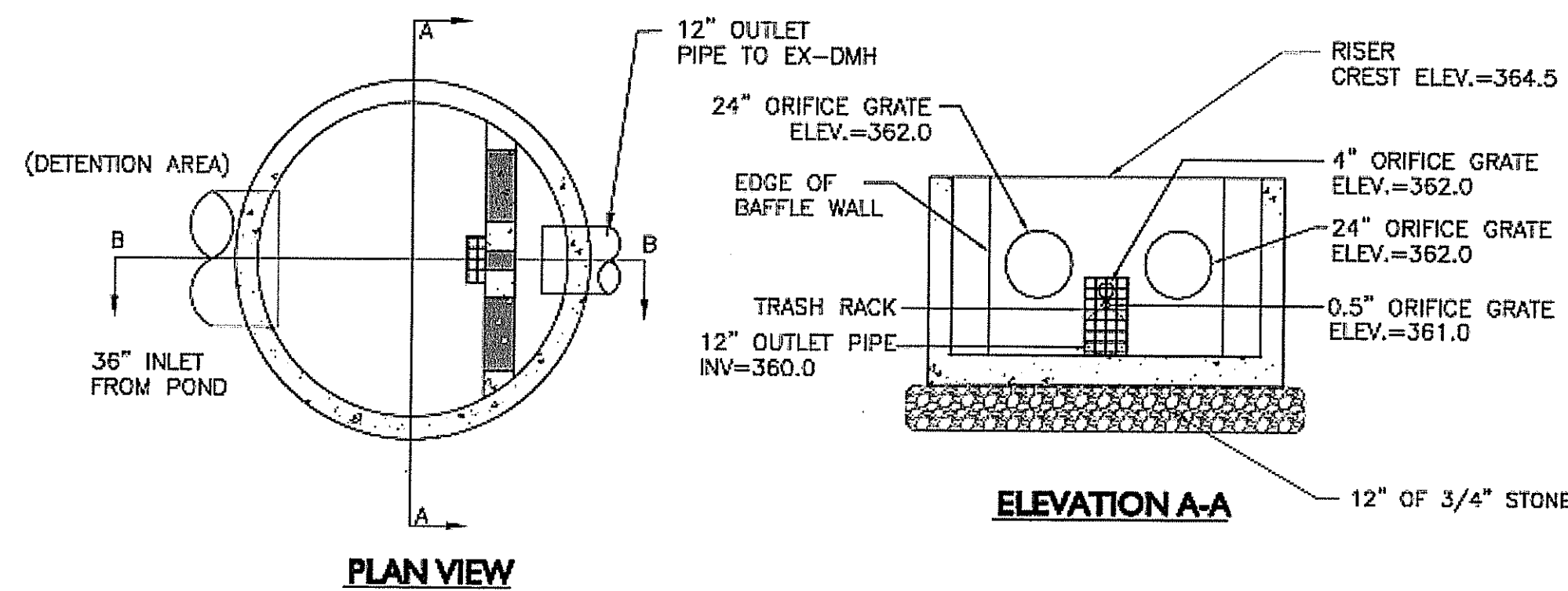
Issued for Request for Preliminary Determination

drawing information:

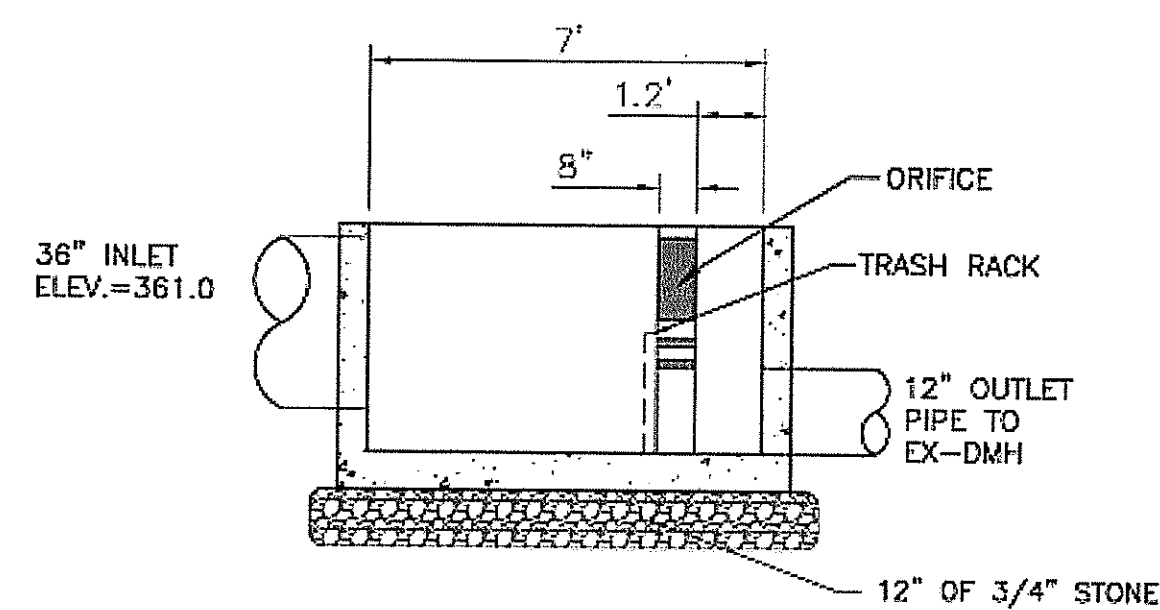
drawing by:	MP, AB, MR	
drawing checked by:	RC	
drawing scale:	As Noted	
drawing date:	12.15.08	
drawing revisions:		
project number:	07035.00	
rev.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

JAMES A. MAJOR
No. 3986
REGISTERED PROFESSIONAL ENGINEER

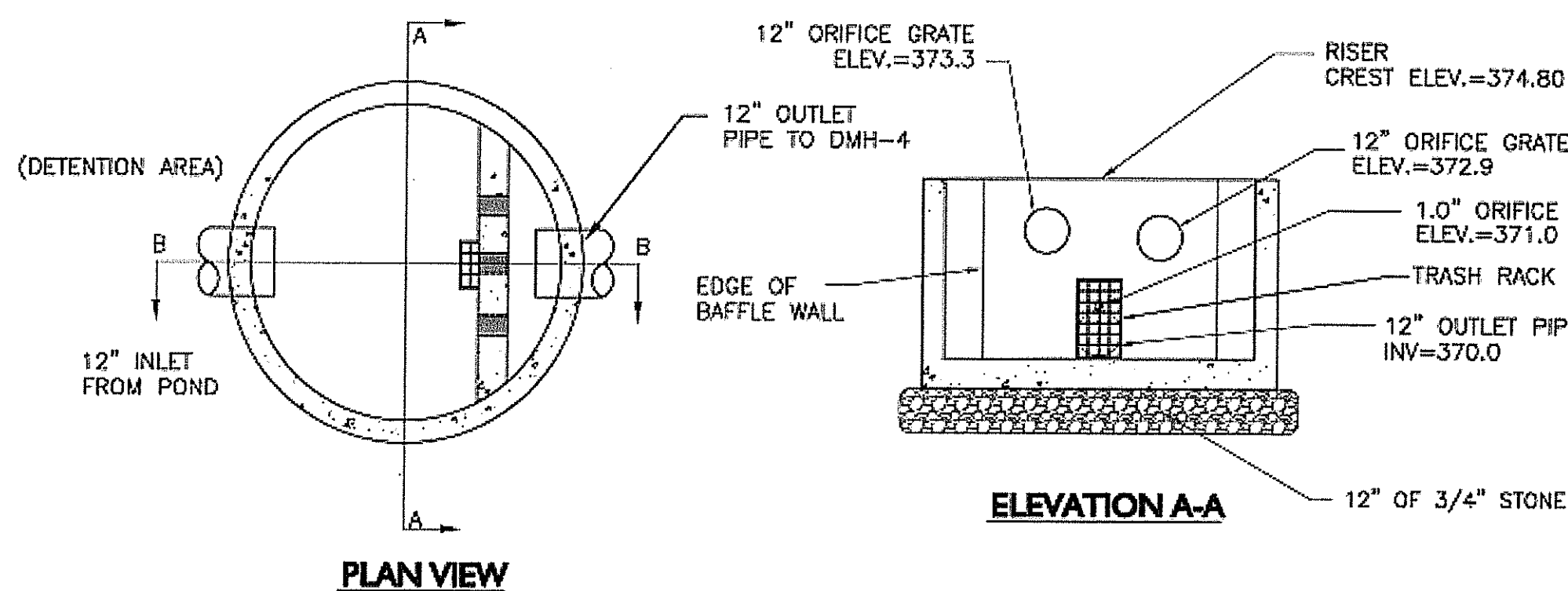
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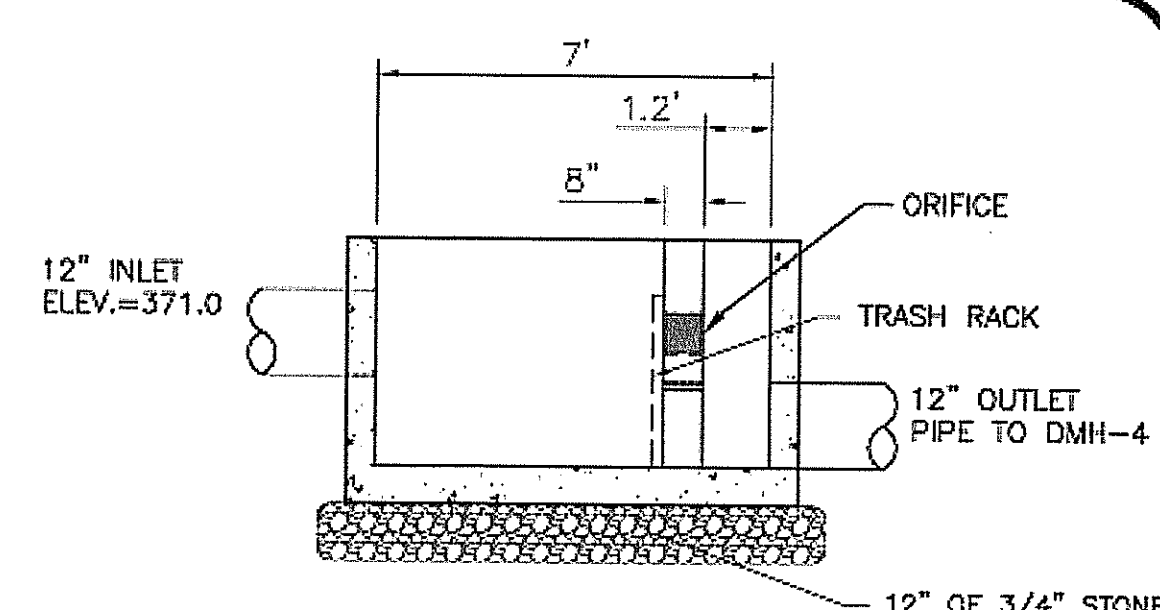
DETENTION AREA #1 UNDERGROUND PIPES OCS
NOT TO SCALE



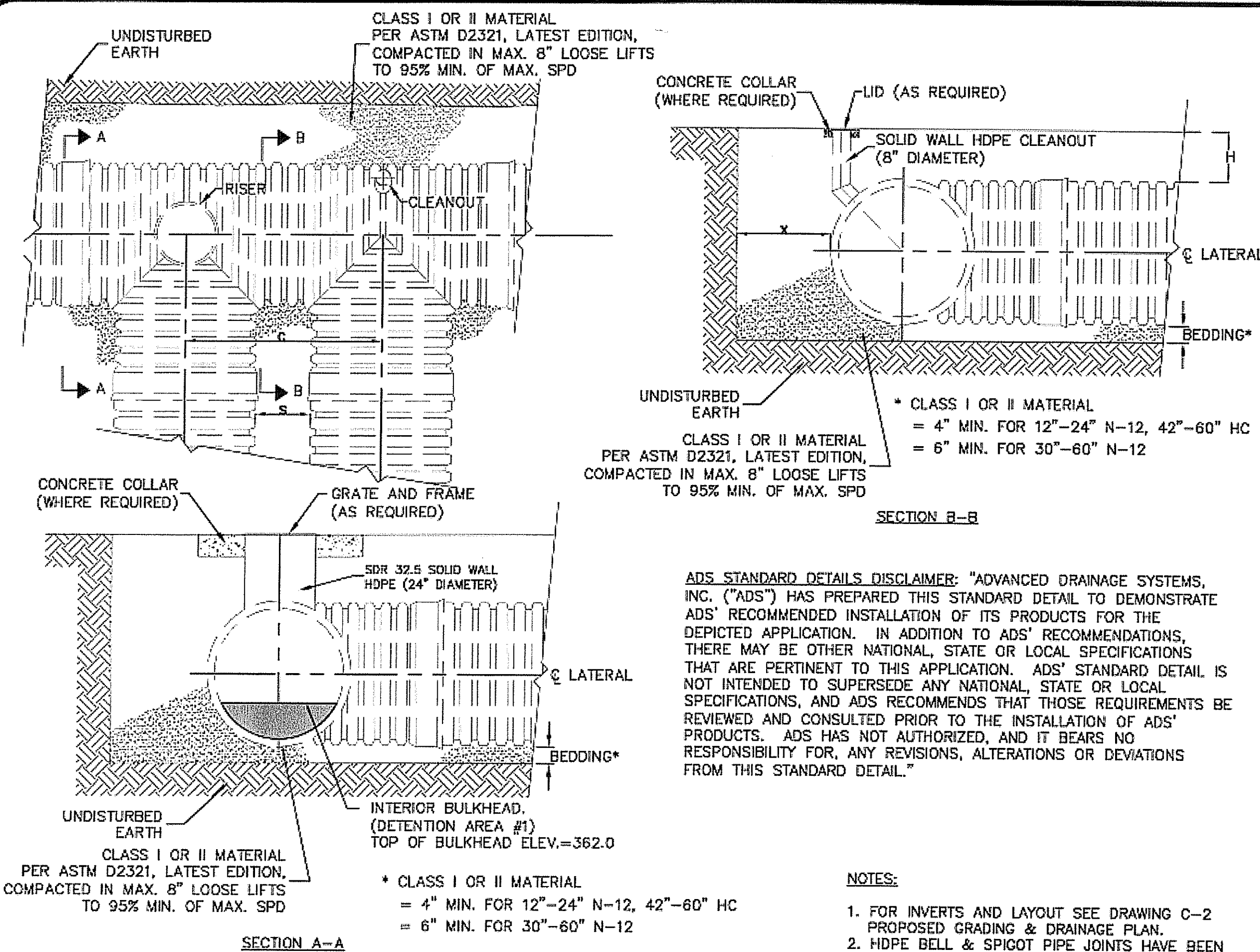
- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. ALL REINFORCEMENT PER ASTM C1227-93.
 3. TONGUE & GROOVE JOINT SEALED WITH BUTYLE RESIN OR MASTIC.
 4. WALLS ARE TO BE 6" THICK & BOTTOM TO BE 8" THICK
 5. PROVIDE TRASH RACK FOR ALL ORIFICES THAT ARE LESS THAN 12" DIAMETER. TRASH RACK MANUFACTURED BY PLASTIC SOLUTIONS INC. OR APPROVED EQUAL.



DETENTION AREA #2 UNDERGROUND PIPES OCS
NOT TO SCALE



- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. ALL REINFORCEMENT PER ASTM C1227-93.
 3. TONGUE & GROOVE JOINT SEALED WITH BUTYLE RESIN OR MASTIC.
 4. WALLS ARE TO BE 6" THICK & BOTTOM TO BE 8" THICK
 5. PROVIDE TRASH RACK FOR ALL ORIFICES THAT ARE LESS THAN 12" DIAMETER. TRASH RACK MANUFACTURED BY PLASTIC SOLUTIONS INC. OR APPROVED EQUAL.



TYPICAL RISER AND CLEANOUT DETAILS
NOT TO SCALE

ADS STANDARD DETAILS DISCLAIMER: "ADVANCED DRAINAGE SYSTEMS, INC. (ADS)" HAS PREPARED THIS STANDARD DETAIL TO DEMONSTRATE ADS' RECOMMENDED INSTALLATION OF ITS PRODUCTS FOR THE DEPICTED APPLICATION. IN ADDITION TO ADS' RECOMMENDATIONS, THERE MAY BE OTHER NATIONAL, STATE OR LOCAL SPECIFICATIONS THAT ARE PERTINENT TO THIS APPLICATION. ADS' STANDARD DETAIL IS NOT INTENDED TO SUPERSEDE ANY NATIONAL, STATE OR LOCAL SPECIFICATIONS, AND ADS RECOMMENDS THAT THOSE REQUIREMENTS BE REVIEWED AND CONSULTED PRIOR TO THE INSTALLATION OF ADS' PRODUCTS. ADS HAS NOT AUTHORIZED, AND IT BEARS NO RESPONSIBILITY FOR, ANY REVISIONS, ALTERATIONS OR DEVIATIONS FROM THIS STANDARD DETAIL."

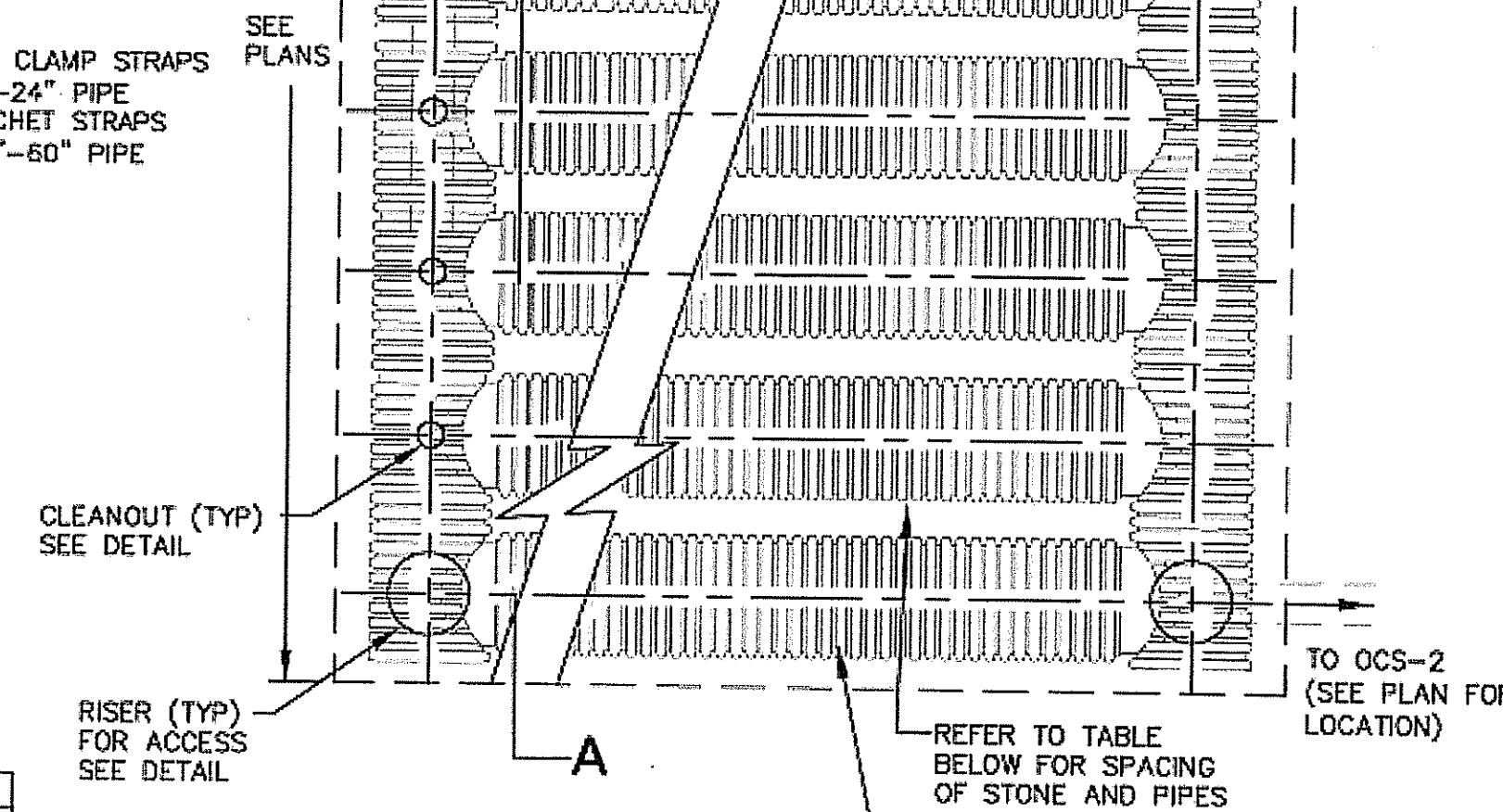
NOTES:

1. FOR INVERTS AND LAYOUT SEE DRAWING C-2 PROPOSED GRADING & DRAINAGE PLAN.
2. HDPE BELL & SPIGOT PIPE JOINTS HAVE BEEN PRESSURE TESTED TO ENSURE THAT THE MINIMUM REQUIREMENTS FOR WATERTIGHT SPECIFICATIONS ARE MET IN ACCORDANCE WITH ASTM D3212.

NOMINAL DIAMETER	STRAP LENGTH "S"	STANDARD		DOUBLE WIDE	
		LENGTH "L"	WIDTH "W"	LENGTH "L"	WIDTH "W"
8"	40"	35"	4"	N/A	N/A
(200 MM)	(1016 MM)	(889 MM)	(101 MM)		
10"	40"	42"	6"	N/A	N/A
(250 MM)	(1016 MM)	(1067 MM)	(152 MM)		
12"	50"	52"	7"	52"	12"
(300 MM)	(1270 MM)	(1321 MM)	(178 MM)	(1321 MM)	(305 MM)
15"	58"	62"	10"	62"	14"
(375 MM)	(1473 MM)	(1575 MM)	(254 MM)	(1575 MM)	(355 MM)
18"	71"	75"	10"	75"	16"
(450 MM)	(1803 MM)	(1905 MM)	(254 MM)	(1905 MM)	(406 MM)
24"	93"	94"	12"	94"	20"
(600 MM)	(2362 MM)	(2387 MM)	(305 MM)	(2387 MM)	(508 MM)
30"	125"	125"	15"	125"	24"
(750 MM)	(3175 MM)	(3175 MM)	(381 MM)	(3175 MM)	(609 MM)
36"	141"	141"	18"	141"	30"
(900 MM)	(3581 MM)	(3581 MM)	(457 MM)	(3581 MM)	(762 MM)
42"	161"	161"	20"	161"	30"
(1050 MM)	(4089 MM)	(4089 MM)	(508 MM)	(4089 MM)	(762 MM)
48"	183"	183"	20"	183"	32"
(1200 MM)	(4648 MM)	(4648 MM)	(508 MM)	(4648 MM)	(813 MM)
60"	212"	222"	28"	222"	46"
(1500 MM)	(5362 MM)	(5639 MM)	(711 MM)	(5639 MM)	(1168 MM)

WATERTIGHT MAR-MAC POLYSEAL
NOT TO SCALE

3 HOSE CLAMP STRAPS FOR 8"-24" PIPE
3 RATCHET STRAPS FOR 30"-60" PIPE



DETENTION AREA #2 36" HDPE WATERTIGHT UNDERGROUND DETENTION SYSTEM
NOT TO SCALE

NOMINAL DIAMETER	TYPICAL SPACING "S"	TYPICAL SPACING "C"	TYPICAL SIDE WALL "X"	H	
				(NON-TRAFFIC)	(TRAFFIC)
12"	11"	25.4"	8"	12"	12"
(300 MM)	(279 MM)	(645 MM)	(203 MM)	(292 MM)	(292 MM)
15"	12"	28.9"	8"	12"	12"
(375 MM)	(292 MM)	(734 MM)	(203 MM)	(292 MM)	(292 MM)
18"	13"	33.9"	9"	12"	12"
(450 MM)	(330 MM)	(862 MM)	(229 MM)	(292 MM)	(292 MM)
24"	13"	40.7"	10"	12"	12"
(600 MM)	(330 MM)	(1034 MM)	(254 MM)	(292 MM)	(292 MM)
30"	18"	53.1"	18"	12"	12"
(750 MM)	(457 MM)	(1347 MM)	(457 MM)	(292 MM)	(292 MM)
36"	22"	63"	18"	12"	12"
(900 MM)	(559 MM)	(1600 MM)	(457 MM)	(292 MM)	(292 MM)
42"	24"	71.8"	18"	12"	12"
(1050 MM)	(610 MM)	(1826 MM)	(457 MM)	(292 MM)	(610 MM)
48"	25"	78.5"	18"	12"	12"
(1200 MM)	(635 MM)	(1994 MM)	(457 MM)	(292 MM)	(610 MM)
60"	24"	90"	18"	12"	12"
(1500 MM)	(610 MM)	(2286 MM)	(457 MM)	(292 MM)	(610 MM)

Building 4 Expansion

1 CVS Drive
Woonsocket, RI 02895
Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-53-1 & F7-51-2

CVS CAREMARK

Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

ALLEN & MAJOR ASSOCIATES, INC.

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Manchester, NH 03104
TEL: 603.633.4000 FAX: 603.633.4001
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B E R

Berlin Engineering Resources, Inc.
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Lawrence, MA 01840
TEL: 978.683.9900 FAX: 978.683.9901
WWW.BERLIN-ENGINEERING.COM

VEITAS VEITAS

100 Main Street, Suite 201
Lawrence, MA 01840
TEL: 978.683.9900 FAX: 978.683.9901
WWW.VEITASVEITAS.COM

Issued for Request for Preliminary Determination

Drawn by: MPABJMR
Checked by: RC
Drawing title: AS NOTED
Drawing date: 12.15.08
Drawing number: 07035.00

REV. Description Date
1. ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION 12-15-2008
2. ISSUED FOR REVIEW 5-19-2009

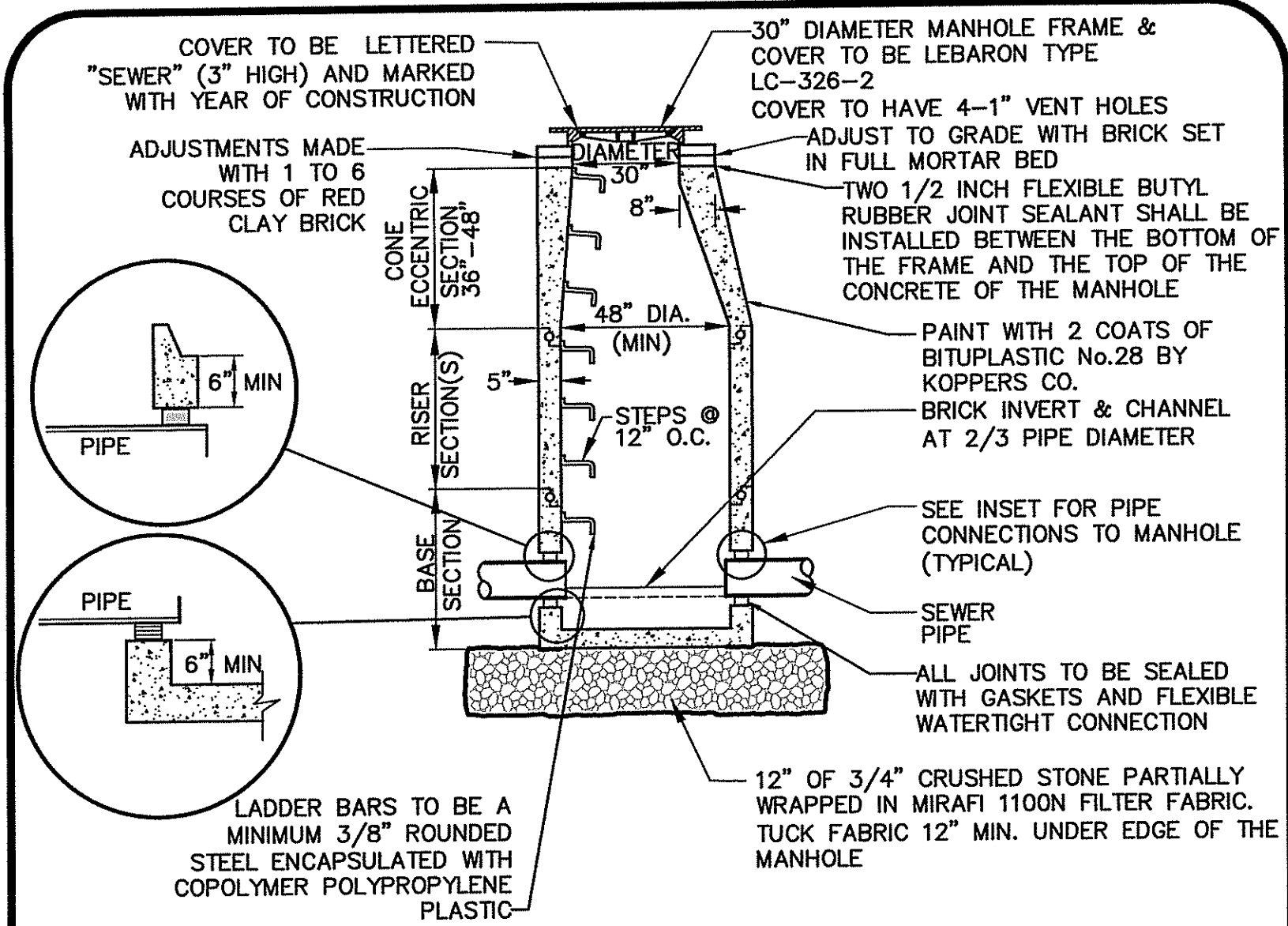
JAMES A. MAJOR

No. 3996
Professional Engineer
State of Rhode Island
Expiring 12/31/2010

Details

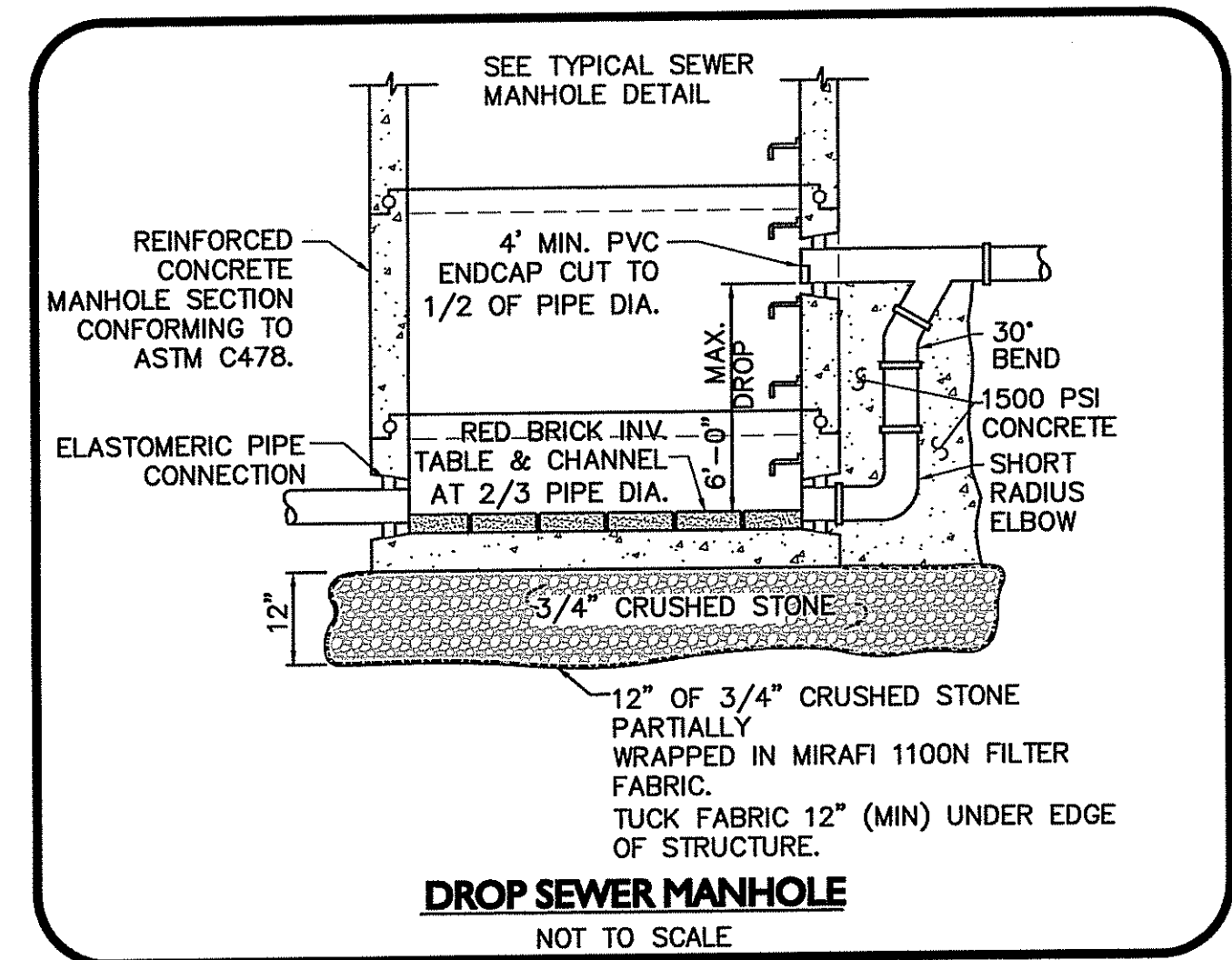
May 21, 2009

D-3

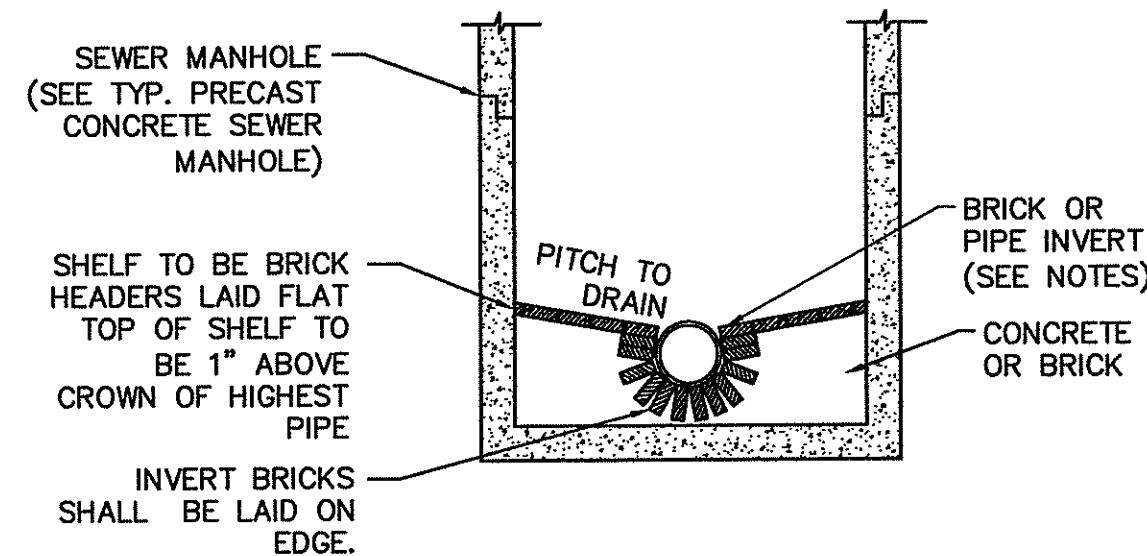


TYPICAL PRECAST CONCRETE SEWER MANHOLE (SMH)

NOT TO SCALE



MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF CEMENT CONCRETE OR BRICK IN MORTAR.

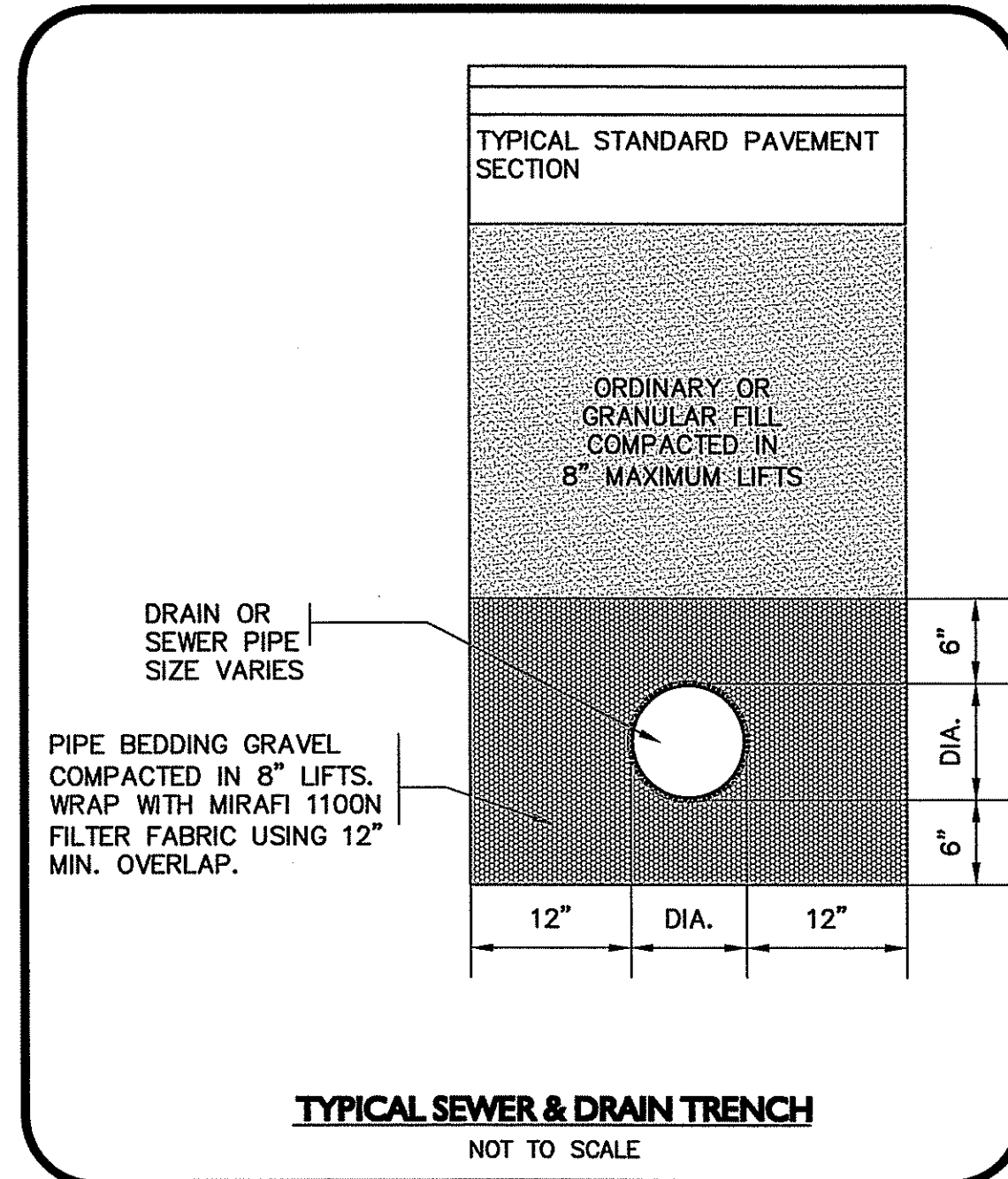
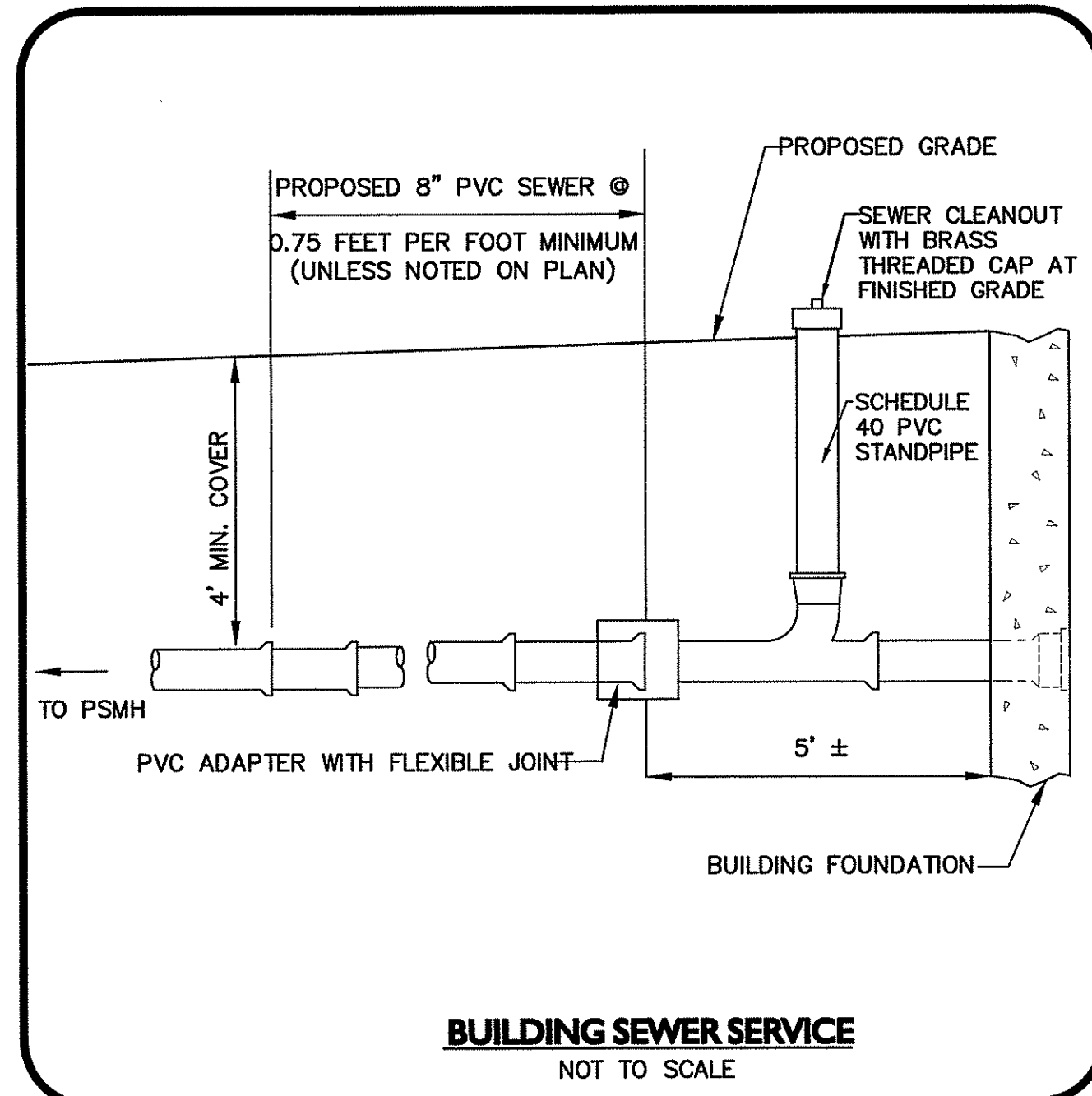


NOTES:

1. INVERT & SHELF TO BE PLACED AFTER LEAKAGE TEST
2. NO SKIM COAT SHALL BE PLACED ON BRICK INVERTS
3. SEWER PIPE MAY BE RUN THROUGH MANHOLE AND USED AS INVERT. TOP HALF OF PIPE TO BE CUT AWAY.
4. INVERTS TO BE CONSTRUCTED WITH S&H RED SEWER BRICK
5. ALL CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF CUMBERLAND SPECIFICATIONS.

TYPICAL BRICK INVERT SECTION FOR SEWER MANHOLES

NOT TO SCALE



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architecture interiors planning

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Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

CVS CAREMARK

Woonsocket, RI; Cumberland, RI;
Smithfield, RI; Lincoln, RI

PREPARED BY:

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WOONSOCKET, RI • WILMINGTON, MA • MANCHESTER, NH

B E R

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Issued for Request
for Preliminary
Determination

drawing by: MP,AB,MR

drawing checked by: RC

drawing scale: As Noted

drawing date: 12.15.08

drawing revisions:

project number: 07035.00

rev. description date

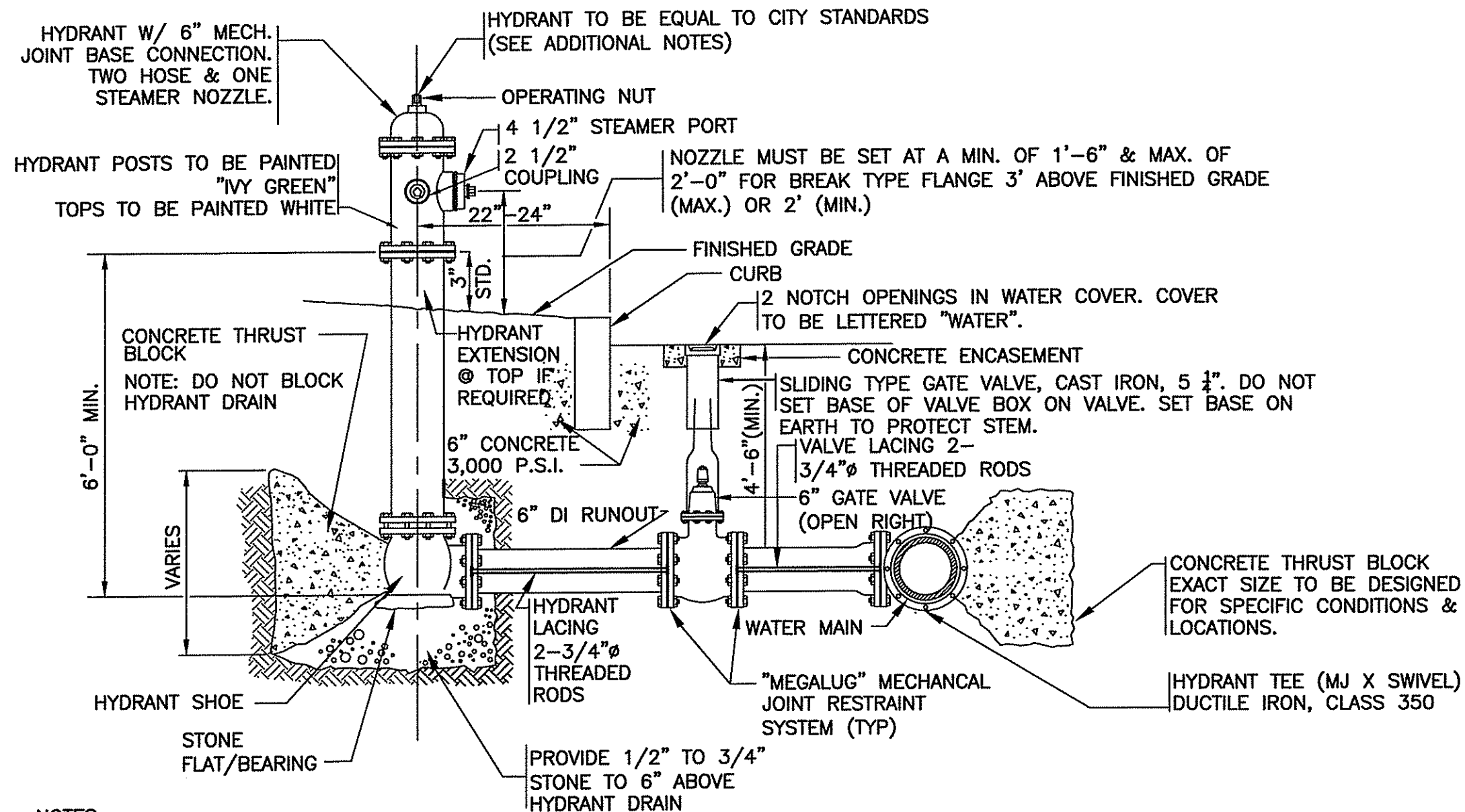
1 ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION 2-18-2009

RECEIVED
MAY 21 2009
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER VEGETATION RECORDING
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 27 2009 FILE # 09-0043
NO CHANGES ALLOWED WITHOUT PREVIOUS WRITTEN
APPROVAL. PLANS MUST BE AT CONSTRUCTION SITE
Charles H. Herbert

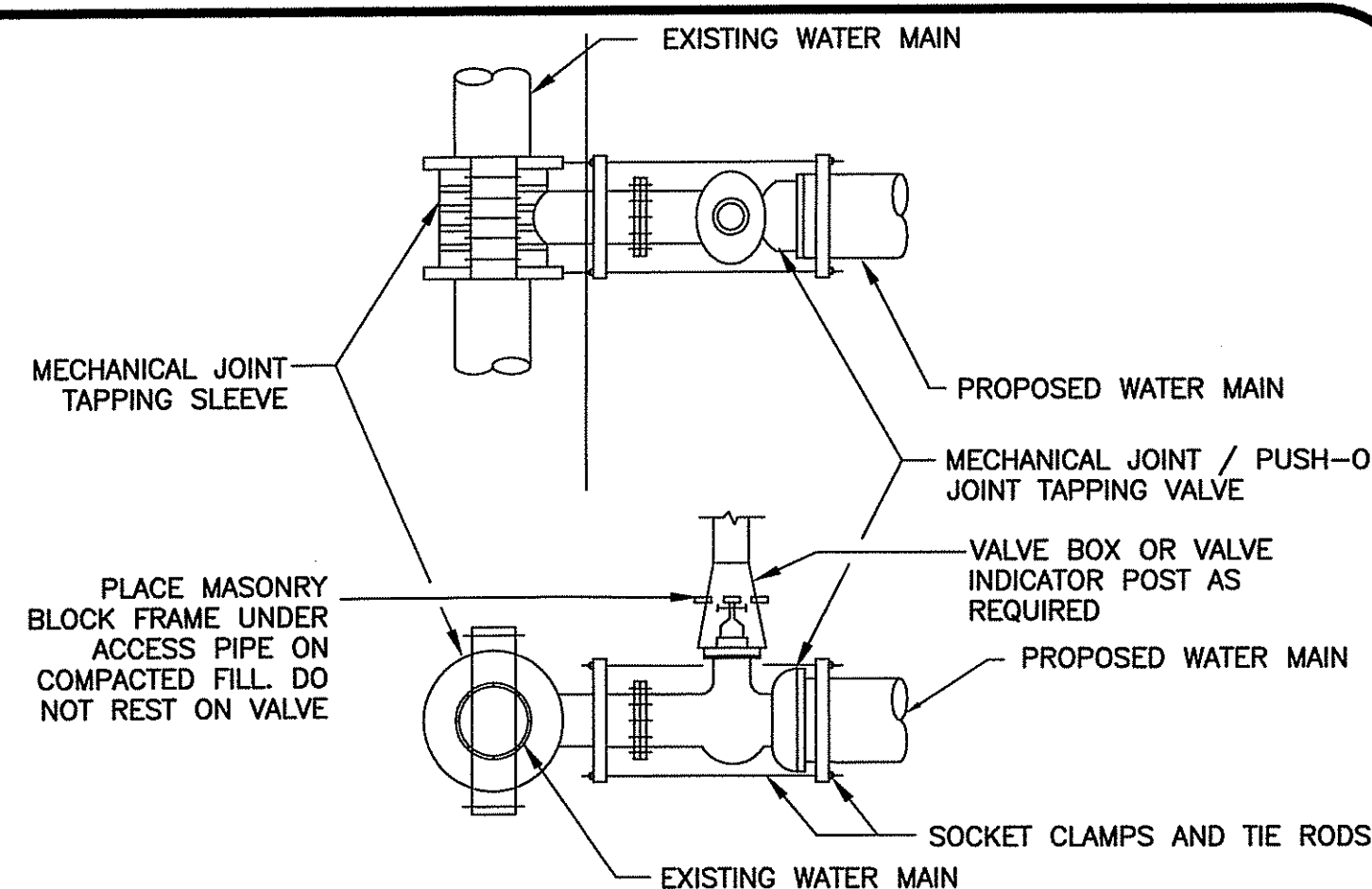
D-4

14 of 18



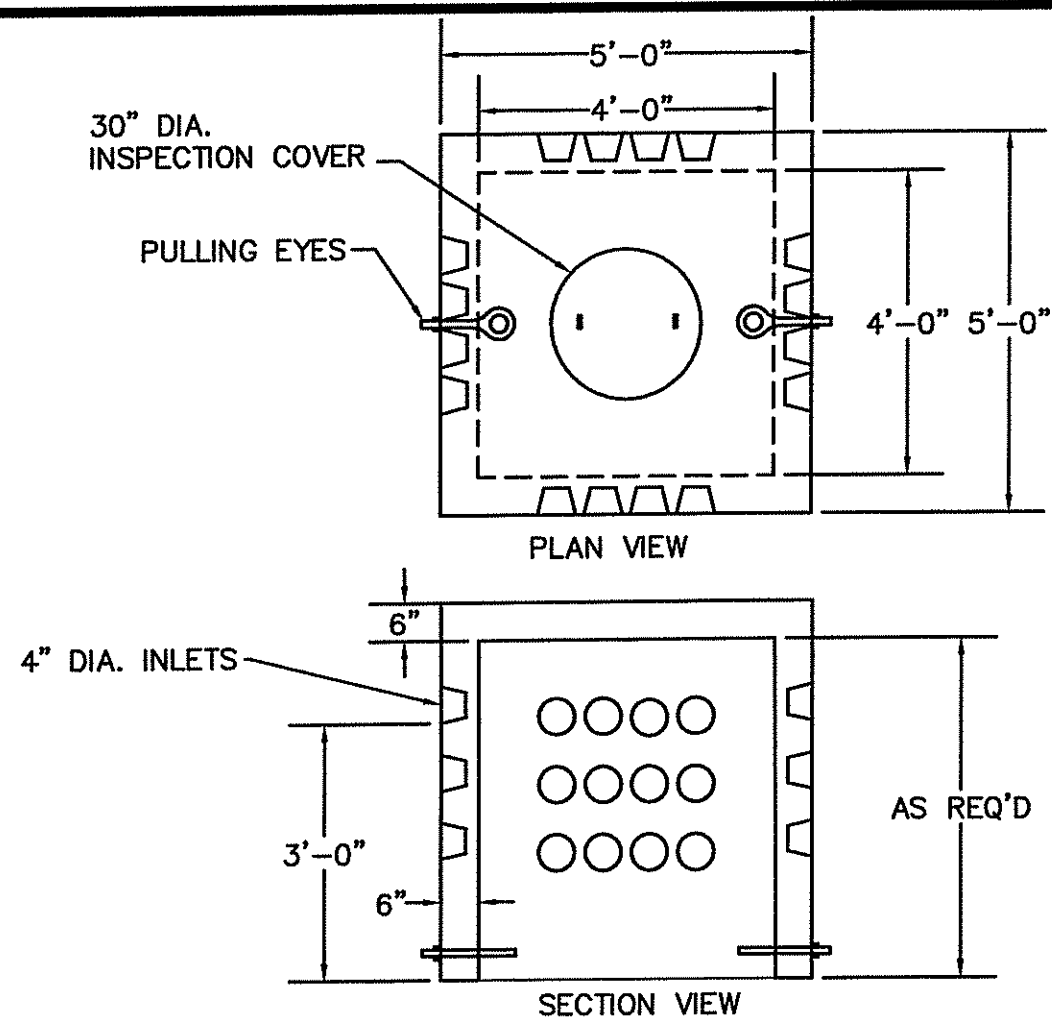
- NOTES:
1. ALL HYDRANTS, VALVES AND TOWN CONNECTIONS SHALL COMPLY WITH THE SPECIFICATIONS OF THE TOWN OF CUMBERLAND.
 2. HYDRANTS TO BE NY PATTERN, POST TYPE.
 3. HYDRANTS TO OPEN IN A CLOCKWISE DIRECTION (OPEN RIGHT).
 4. CLASS I HYDRANTS REQUIRED FOR 150 PSI PRESSURE AND 200 PSI TEST, OR CLASS II FOR 250 PSI PRESSURE AND 300 PSI TEST. (CLASS II INSTALLATIONS REQUIRE PILOT VALVES).
 5. 6" BELL CONNECTION REQUIRED AT END.
 6. 1-4 1/2" BRONZE PUMPER NOZZLE AND 2-2 1/2" BRONZE HOSE NOZZLE CONNECTION REQUIRED.
 7. PIPING TO BE RESTRAINED WITH RODDING OR RETAINING GLANDS.

TYPICAL FIRE HYDRANT CONNECTION
NOT TO SCALE



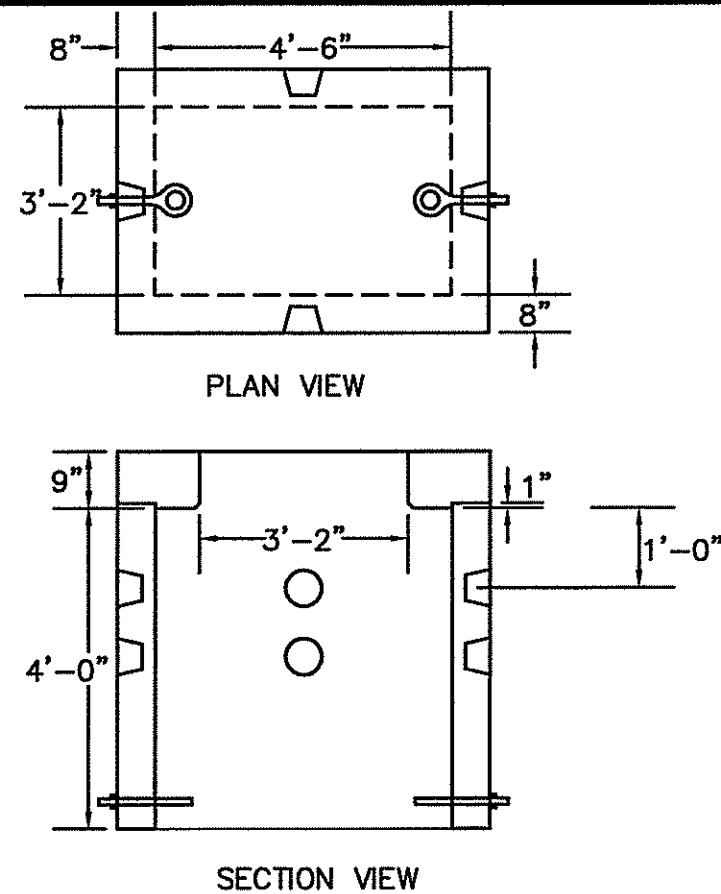
- NOTES:
1. VALVES TO BE NY PATTERN, CITY OF PROVIDENCE STANDARD.
 2. VALVES TO OPEN IN A CLOCKWISE DIRECTION (OPEN RIGHT)
 3. MANUALLY OPERATED, IRON BODY, BRONZE MOUNTED, INSIDE SCREW, DOUBLE DISK TYPE, NON-RISING STEM WITH "O" RING SEALS.
 4. CLASS I VALVES REQUIRED FOR 200 PSI PRESSURE AND 400 PSI TEST, OR CLASS II FOR 250 PSI PRESSURE AND 500 PSI TEST.

TAPPING SLEEVE AND VALVE
NOT TO SCALE



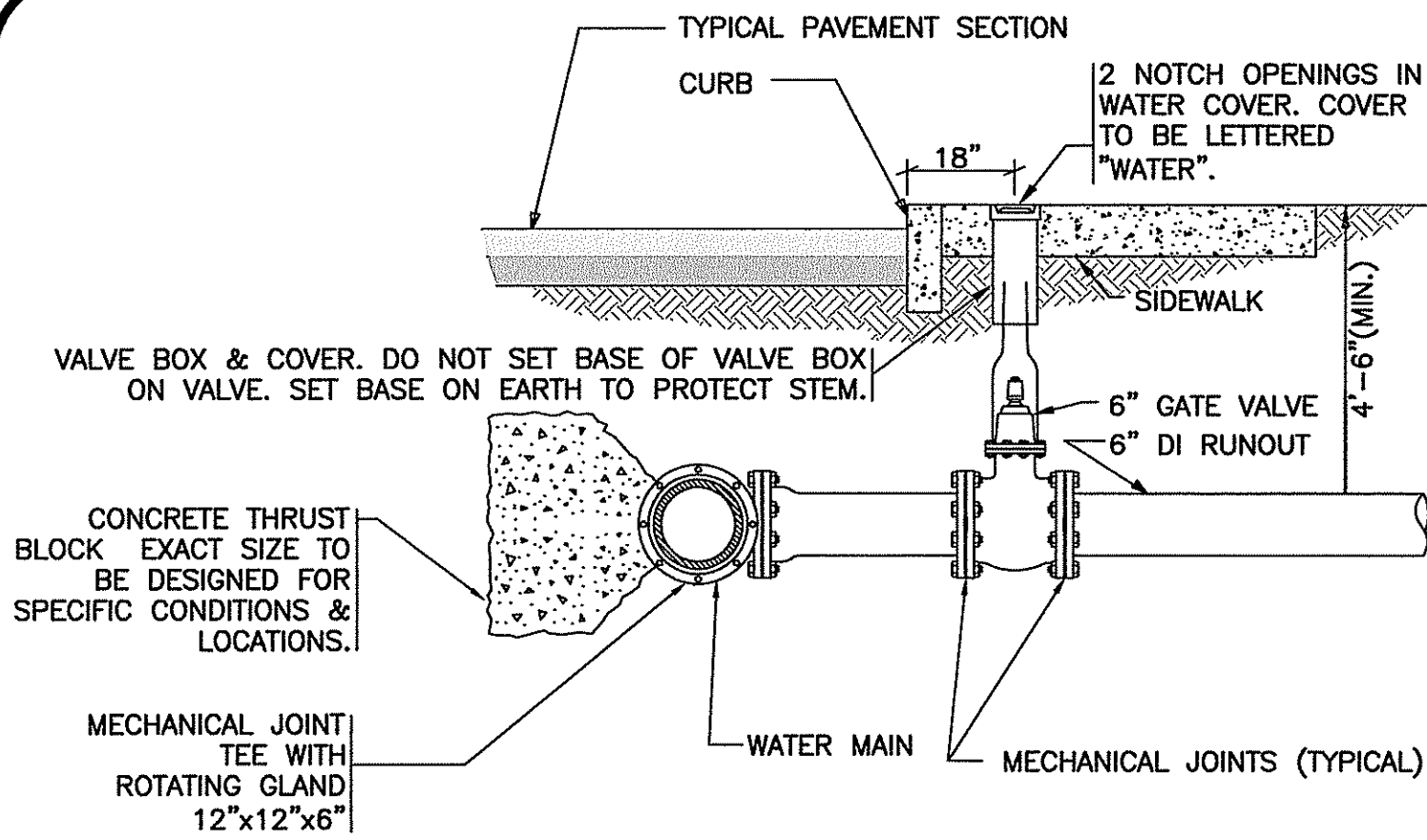
- NOTES:
1. ELECTRIC MANHOLES TO BE E.F. SHEA OR EQUAL.
 2. CUSTOM DESIGN TO MATCH PROPOSED CONCRETE DUCT BANK REQUIRED.
 3. TO BE DESIGNED FOR H-20 LOADING.

ELECTRIC MANHOLE
NOT TO SCALE



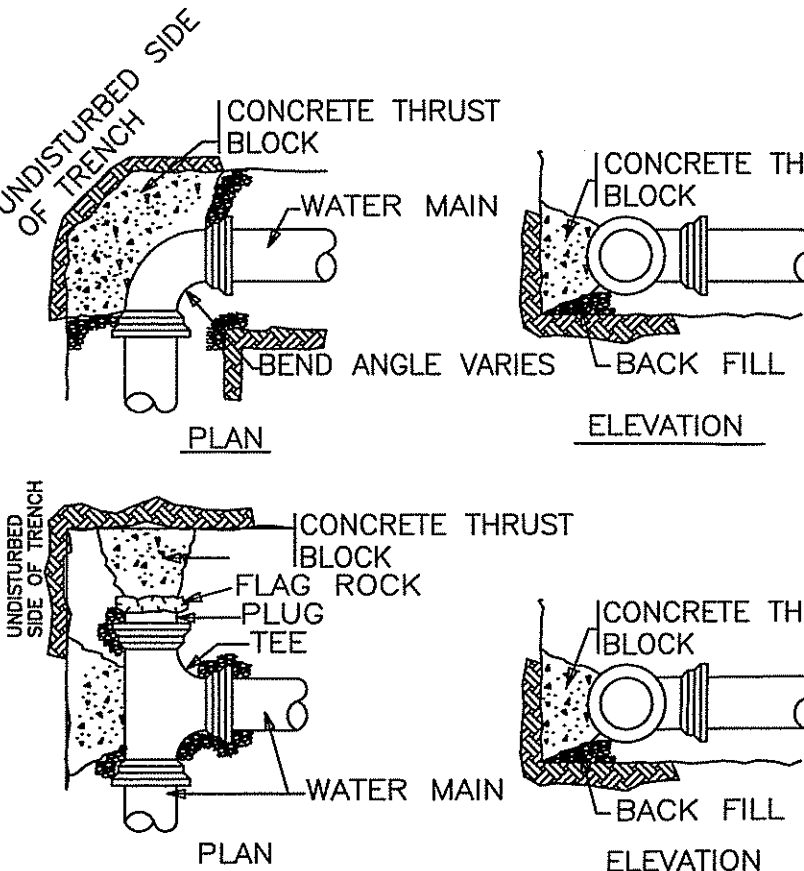
- NOTES:
1. ELECTRIC HANDHOLES TO MEET NATIONAL GRID REQUIREMENTS.
 2. CUSTOM DESIGN TO MATCH PROPOSED CONCRETE DUCT BANK REQUIRED.
 3. ROOF OPENING 3'-2" SQUARE.
 4. TO BE DESIGNED FOR H-20 LOADING.
 5. HANHOLE FRAME, RING, AND COVER (NOT SHOWN) TYPICALLY PROVIDED BY NATIONAL GRID

ELECTRIC HANDHOLE
NOT TO SCALE



- NOTES:
1. VALVE BOXES TO BE BUFFALO SLIDING TYPE ADJUSTABLE GATE BOXES OF CAST IRON CONSTRUCTION, 6" DIAMETER.

TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

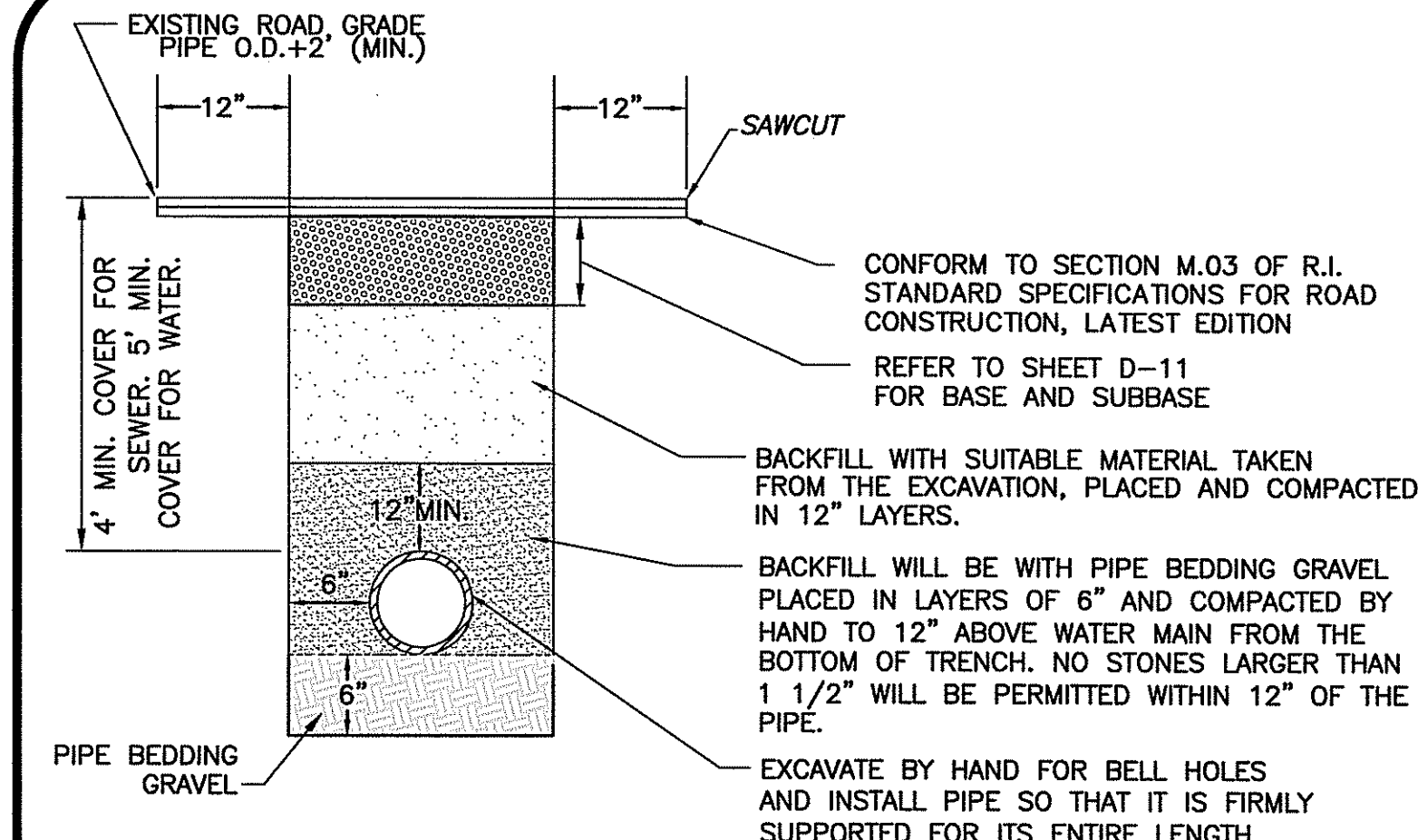


- NOTES:
1. ALL WATER MAIN AND SEWER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE RESTRAINED W/ THRUST BLOCKS EXCEPT WHERE NOTED.
 2. ALL THRUST BLOCKS & COLLARS SHALL BE INSTALLED SO THAT THEY BEAR AGAINST UNDISTURBED EARTH.
 3. SIZE OF CONCRETE THRUST BLOCKS SHALL BE AS NOTED BELOW.
 4. MINIMUM COMPRESSIVE STRENGTH OF THRUST BLOCK CONCRETE SHALL BE 3,000 P.S.I.
 5. KEEP CONCRETE CLEAR OF MECHANICAL JOINTS.
 6. THE BELOW PRECATED ON A WATER PRESSURE OF 225 PSI AND A SOIL RESISTANCE OF 2000 PSF (TILL). FOR OTHER SOILS THE VALUES IN THE ABOVE TABLE SHALL BE MULTIPLIED BY:

SOFT CLAY	4
SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

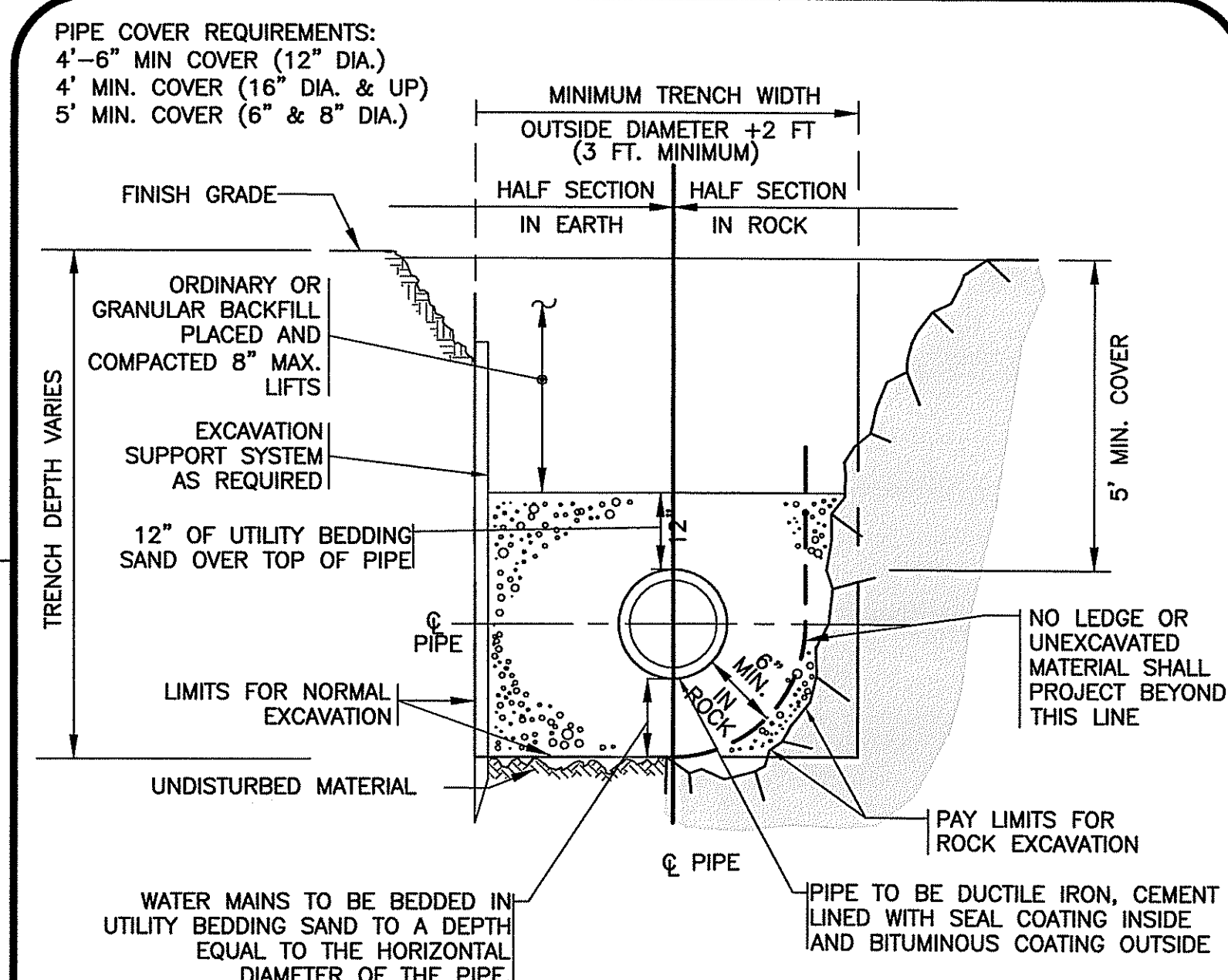
PIPE DIAMETER	90° BEND (SQ. FT.)	45° BEND (SQ. FT.)	22.5° BEND (SQ. FT.)	TEES, PLUGS, CAPS & HYDRANTS (SQ. FT.)
6"	5	3	2	4
8"	13	7	3	9
10"	18	10	4	13
12"			5	

THRUST BLOCK DETAILS
NOT TO SCALE

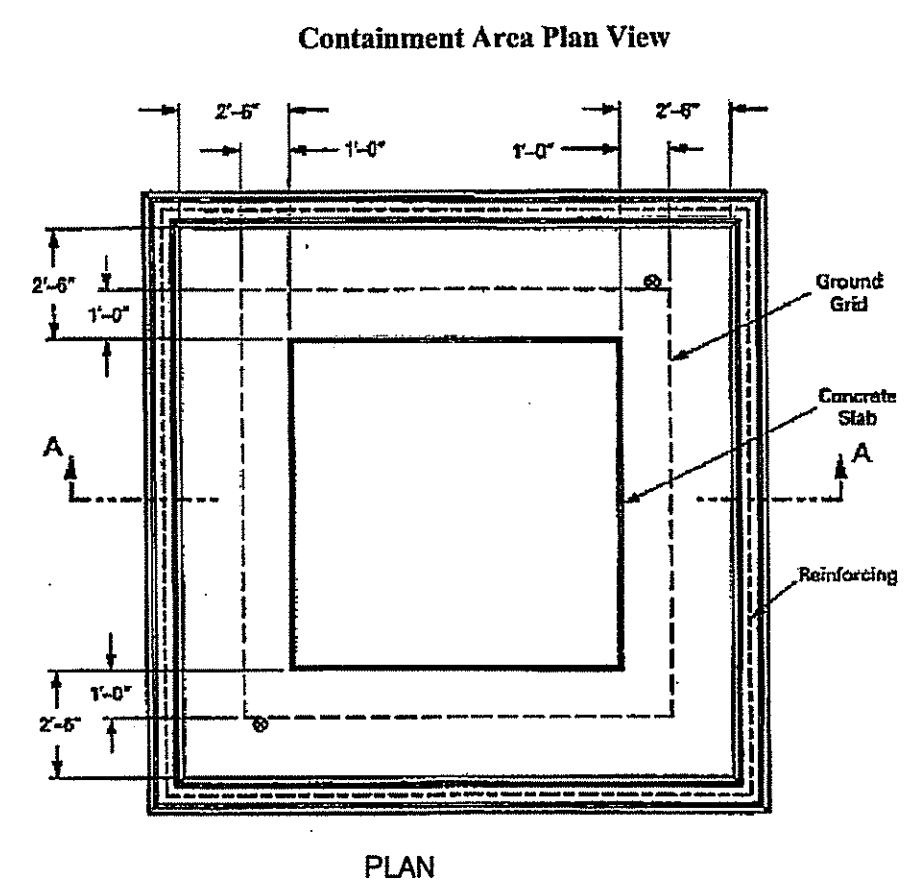


- NOTES:
1. APPLY TACK COAT TO THE EXPOSED SURFACE OF THE MACADAM AND CONCRETE BASES AND EXPOSED EDGES OF THE EXISTING BITUMINOUS CONCRETE PAVEMENT, PRIOR TO PLACING BITUMINOUS CONCRETE PAVEMENT.
 2. PROVIDE SHEETING, SHORING, BRACING OR SUFFICIENT SUPPORT FOR BOTH SIDES OF TRENCH WHEN REQUIRED BY CITY AND WHEN DEPTH EXCEEDS 5'-0".

TYPICAL TRENCH IN FIRM GROUND AND PERMANENT PATCH DETAIL
NOT TO SCALE

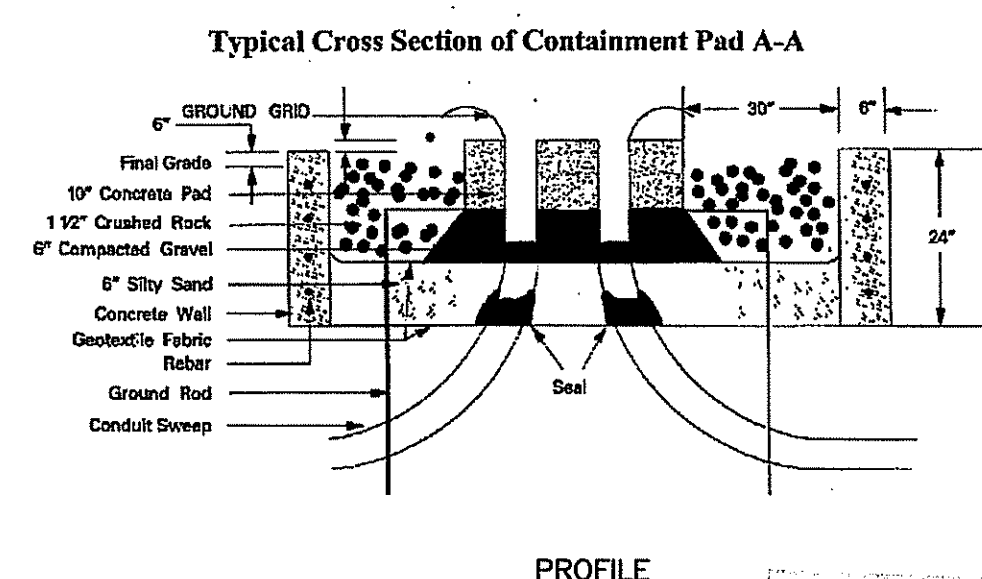


TYPICAL WATER TRENCH SECTION
NOT TO SCALE



- NOTES:
1. ACTUAL LIMITS OF PAD & CONTAINMENT AREA WILL VARY ACCORDING TO TRANSFORMER VOLTAGE REQUIREMENTS.

TRANSFORMER PAD DETAIL
NOT TO SCALE



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FRESHWATER WITH...
APPROVED WITH...
AS SPECIFIED IN THE LETTER OF...
DATED MAY 21 2009 FILE # 09-0043
NO CHANGES...
APPROVED...
Charles A. Hackett

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Cumberland Plat 52, Lots 365 & 366
Woonsocket F7-56-1 & F7-51-2

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BER@BER-Engineering.com www.ber-engineering.com

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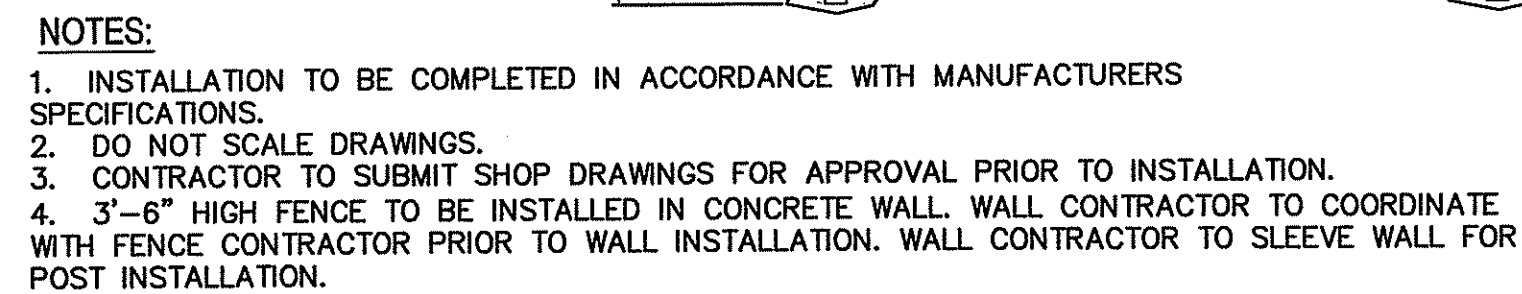
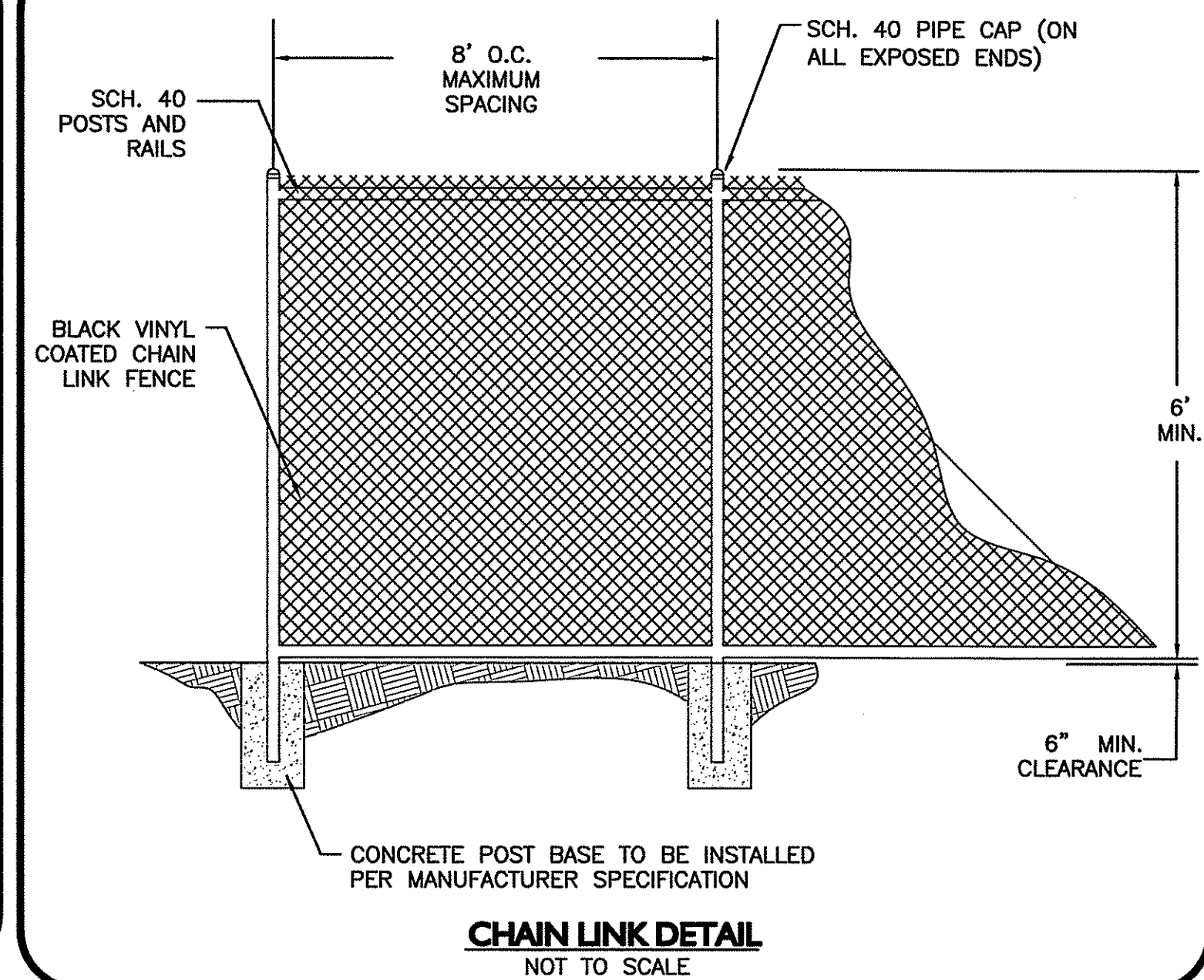
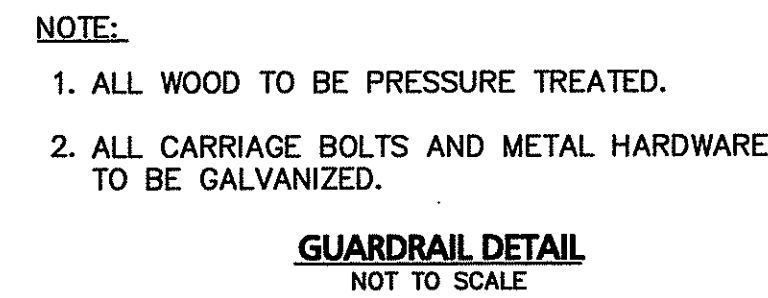
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FEB 3 2009
CUMBERLAND PLAT 52
OFFICE OF WATER RESOURCES

Issued for Request for Preliminary Determination

drawing by:		MP,AB,MR
drawing checked by:		RC
drawing scale:		As Noted
drawing date:		12.15.08
drawing revisions:		
drawing number:		07035.00
	description	date
	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

JAMES A. MAJOR
No. 3986
REGISTERED PROFESSIONAL ENGINEER

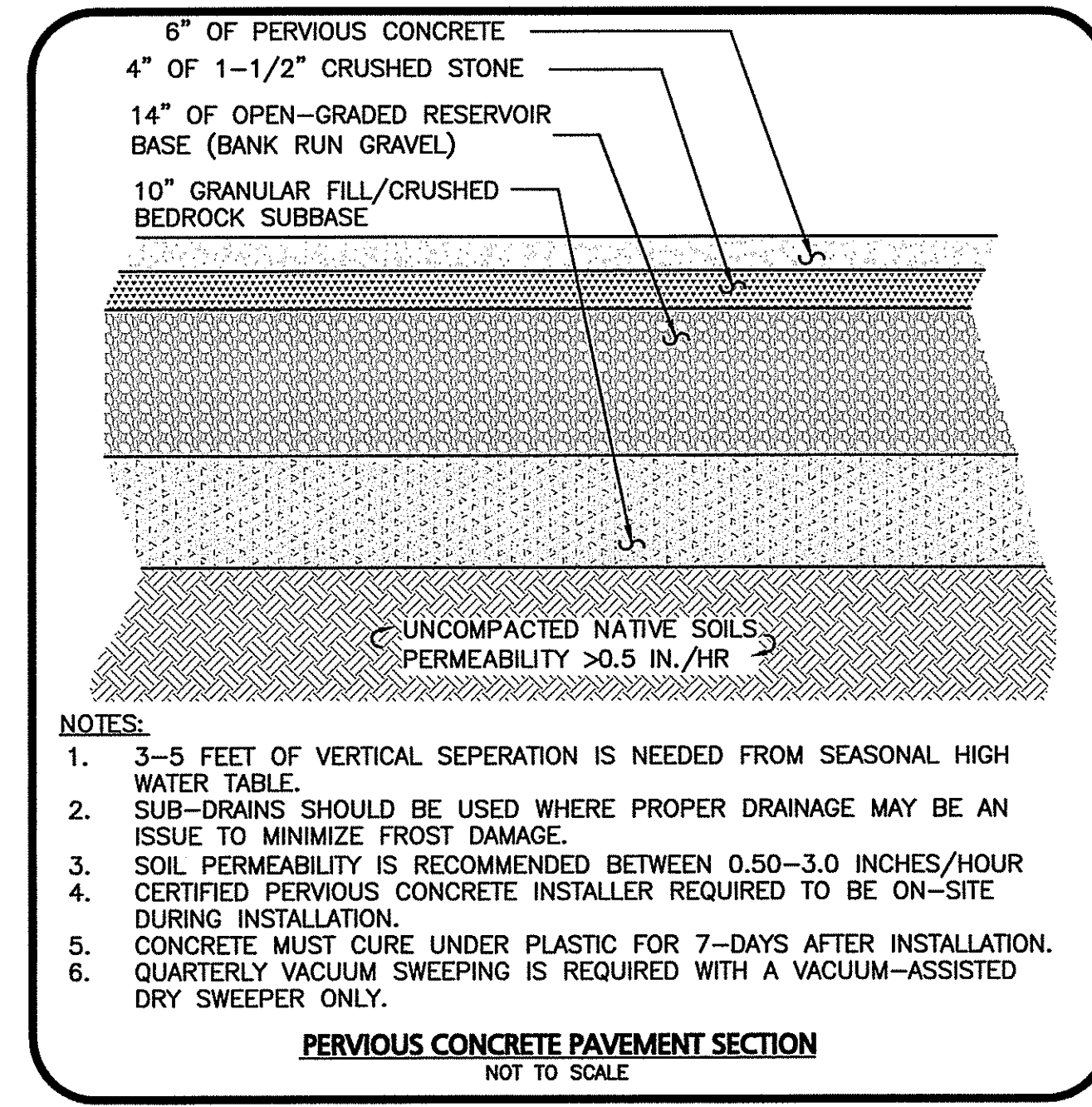
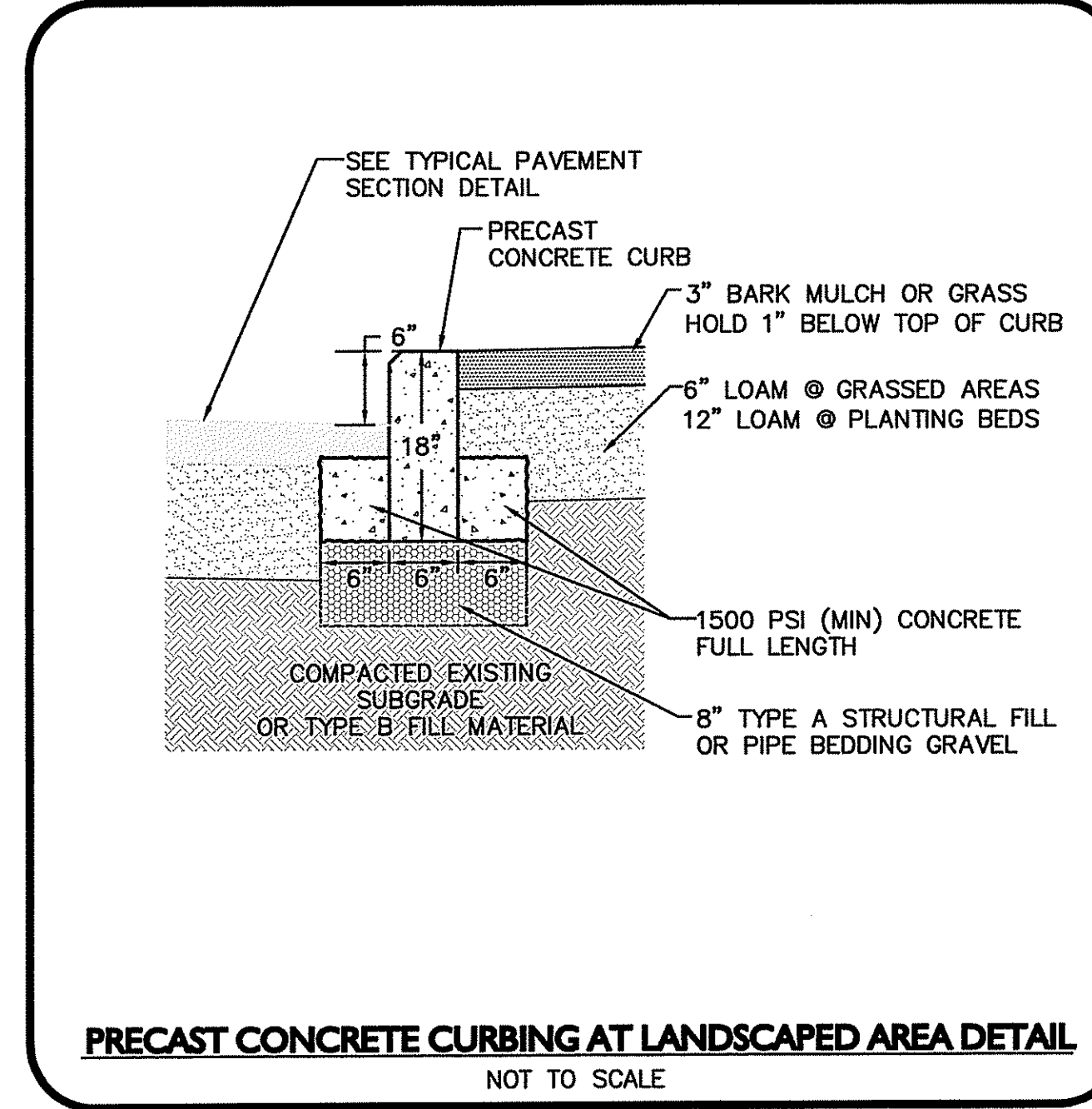
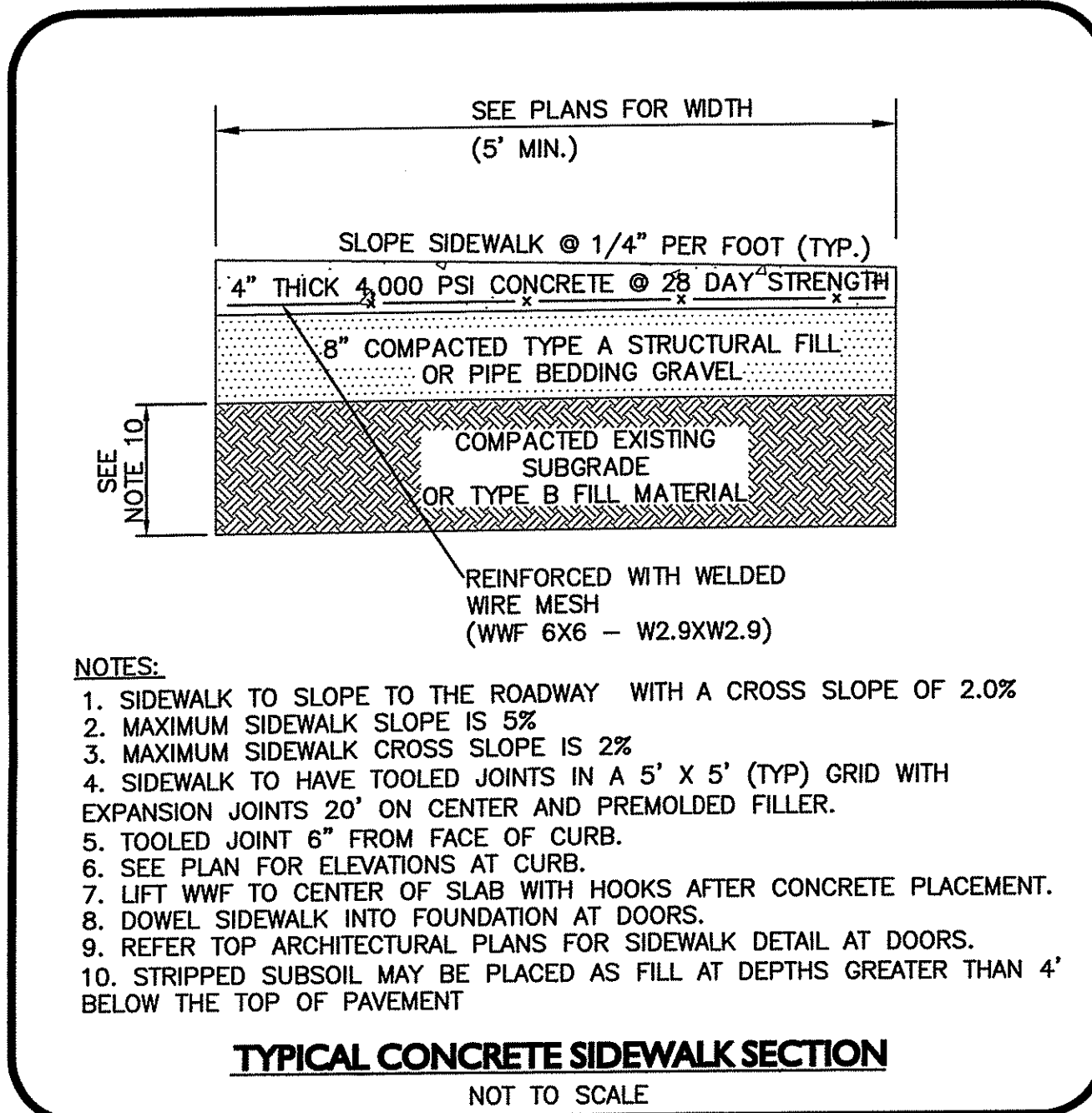
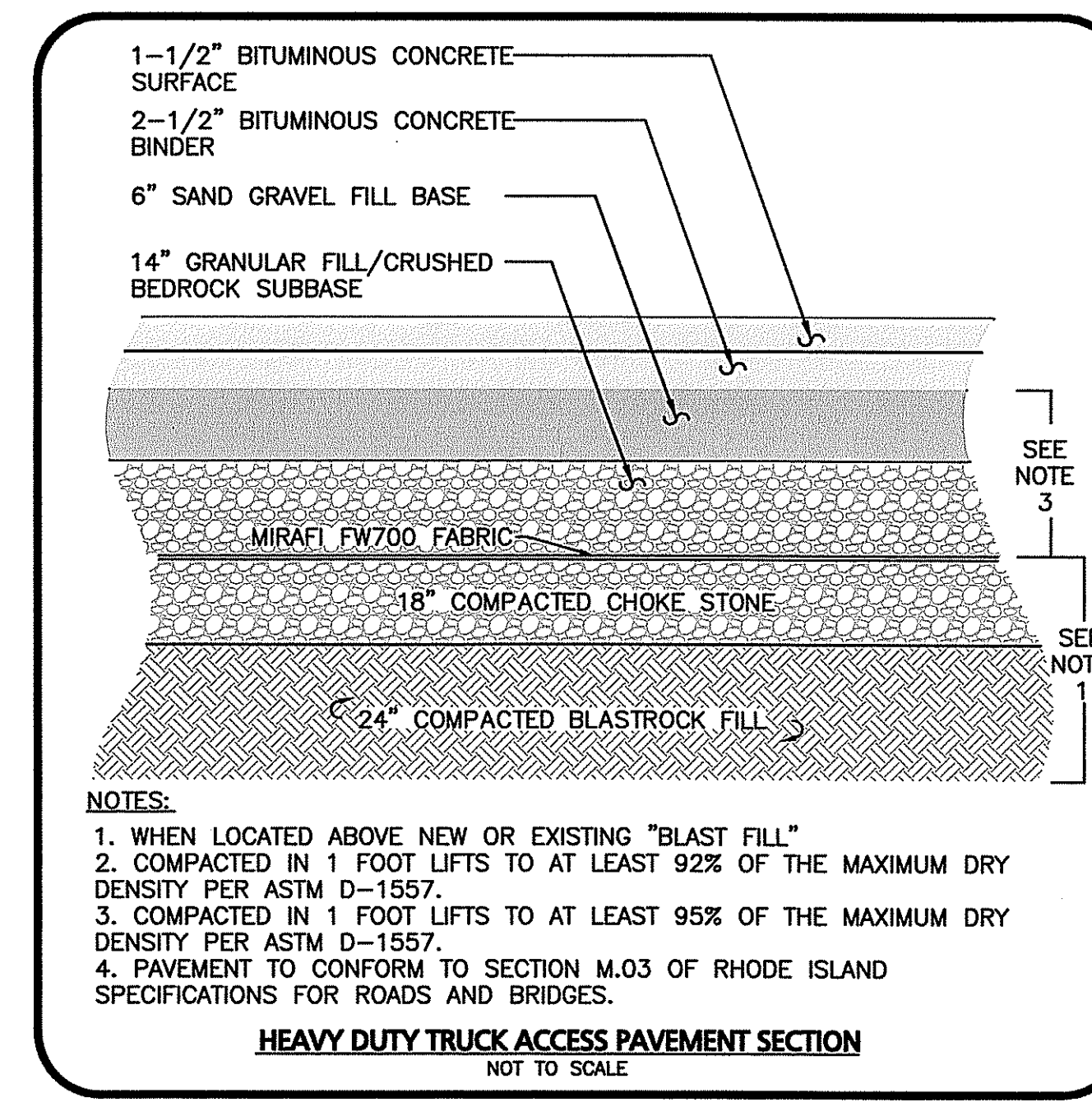
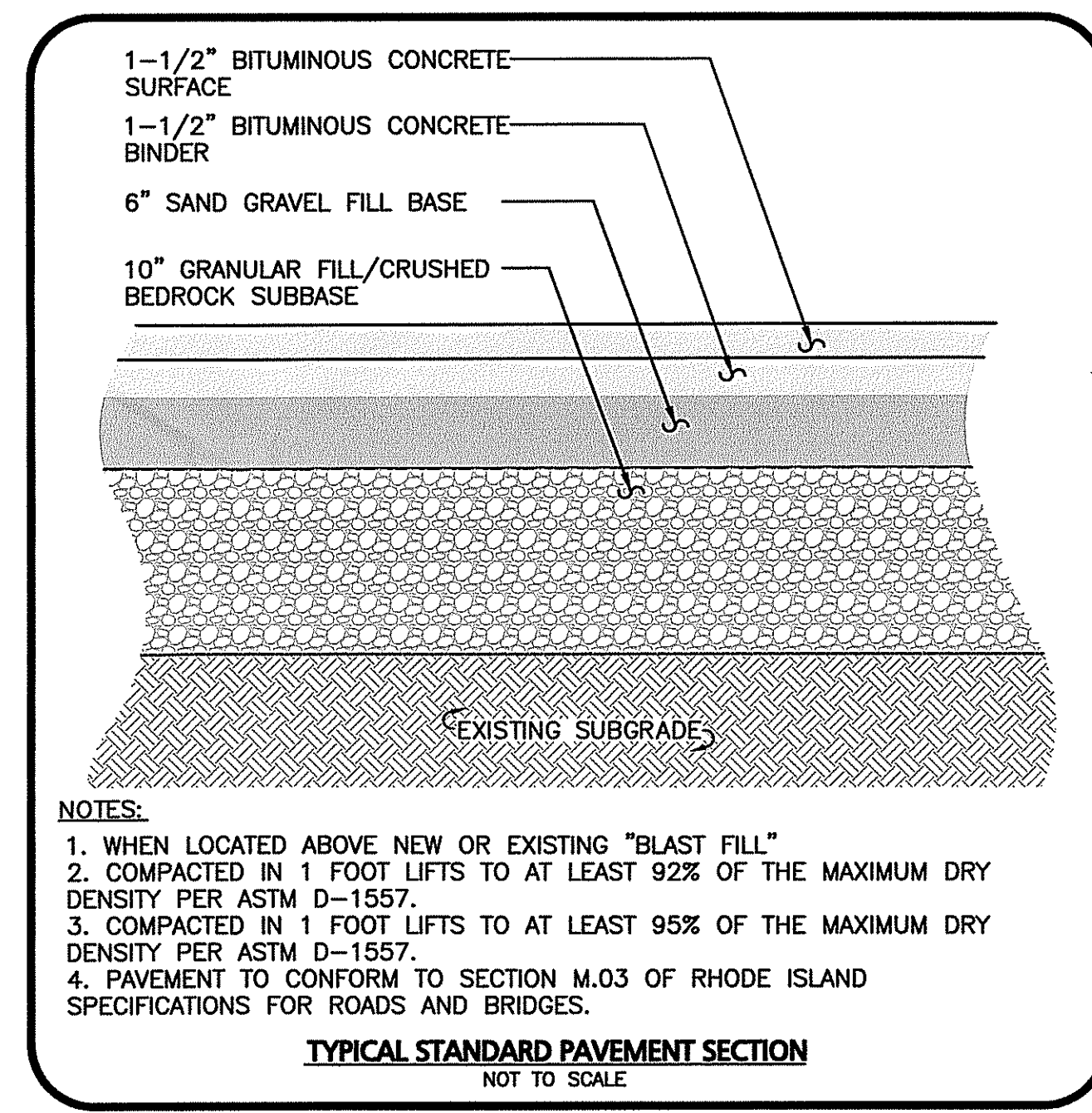
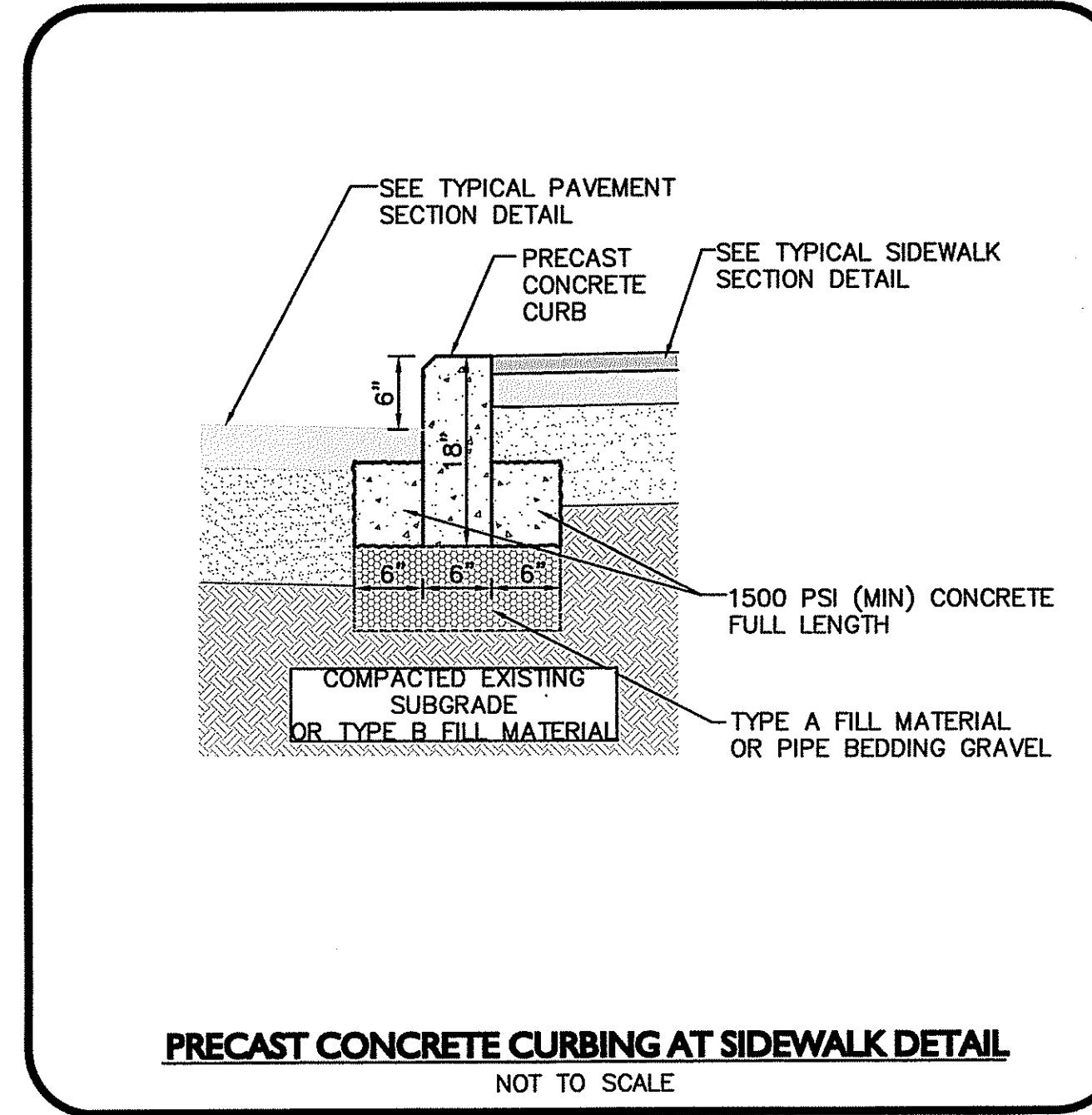
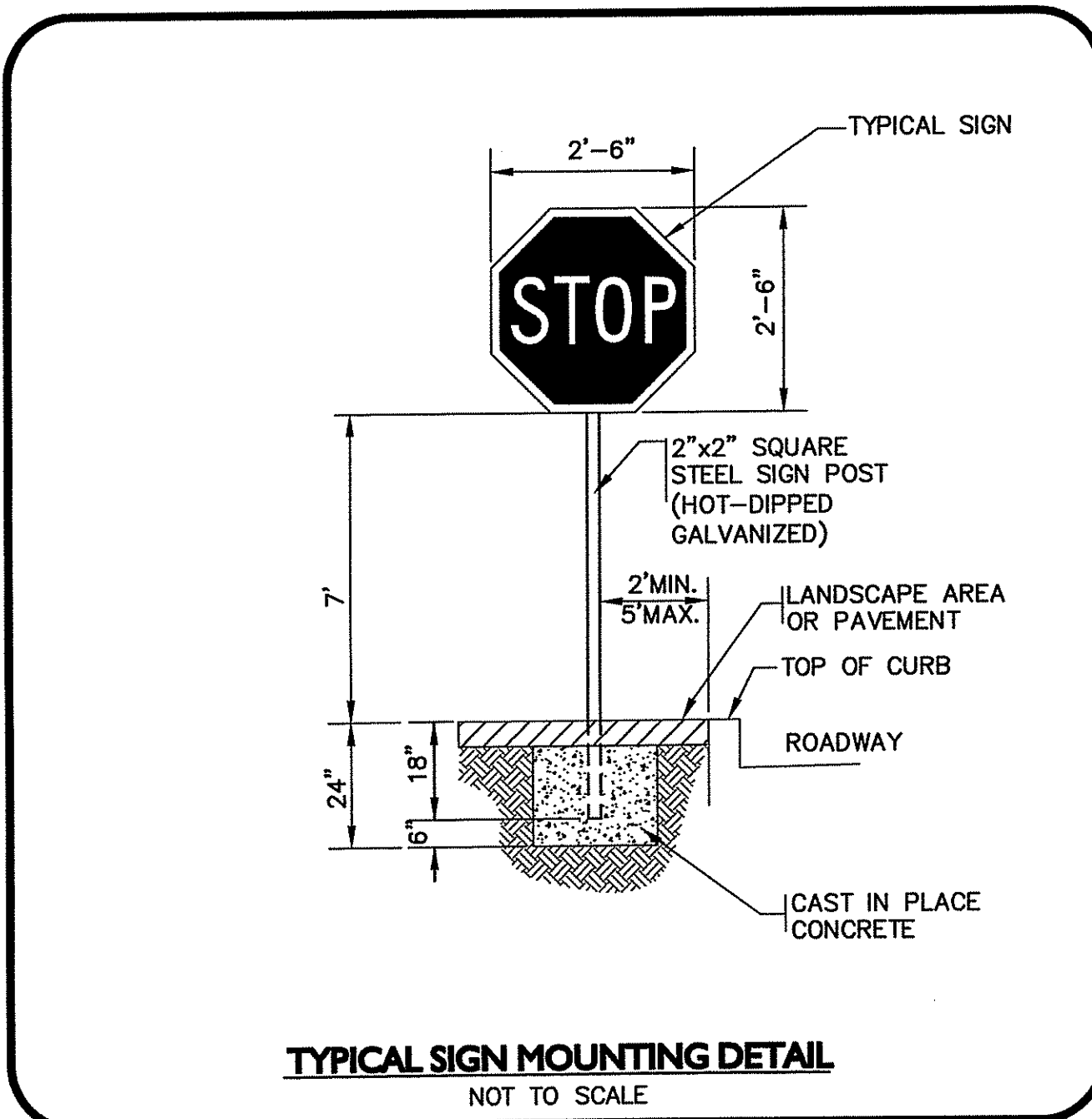
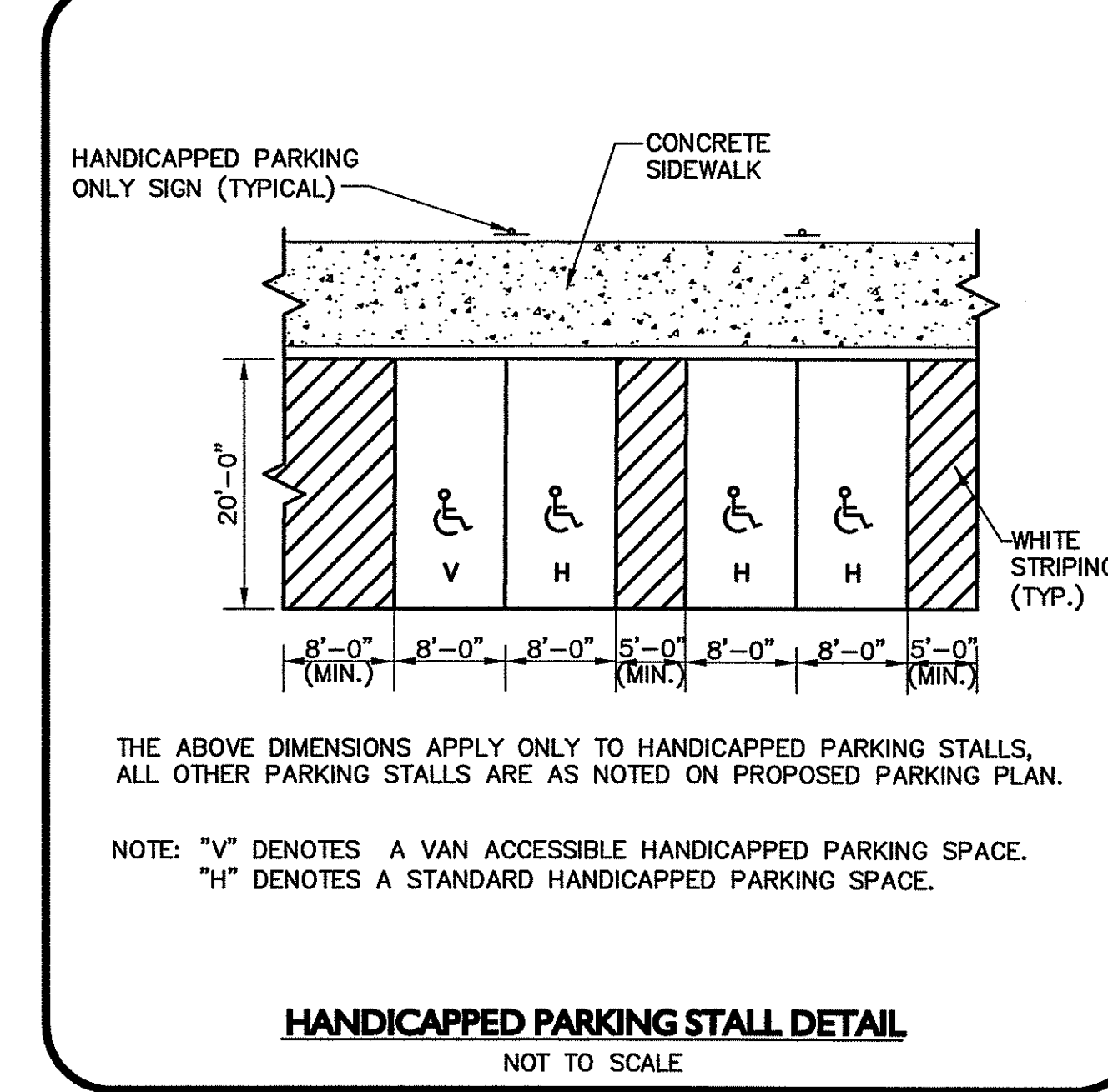
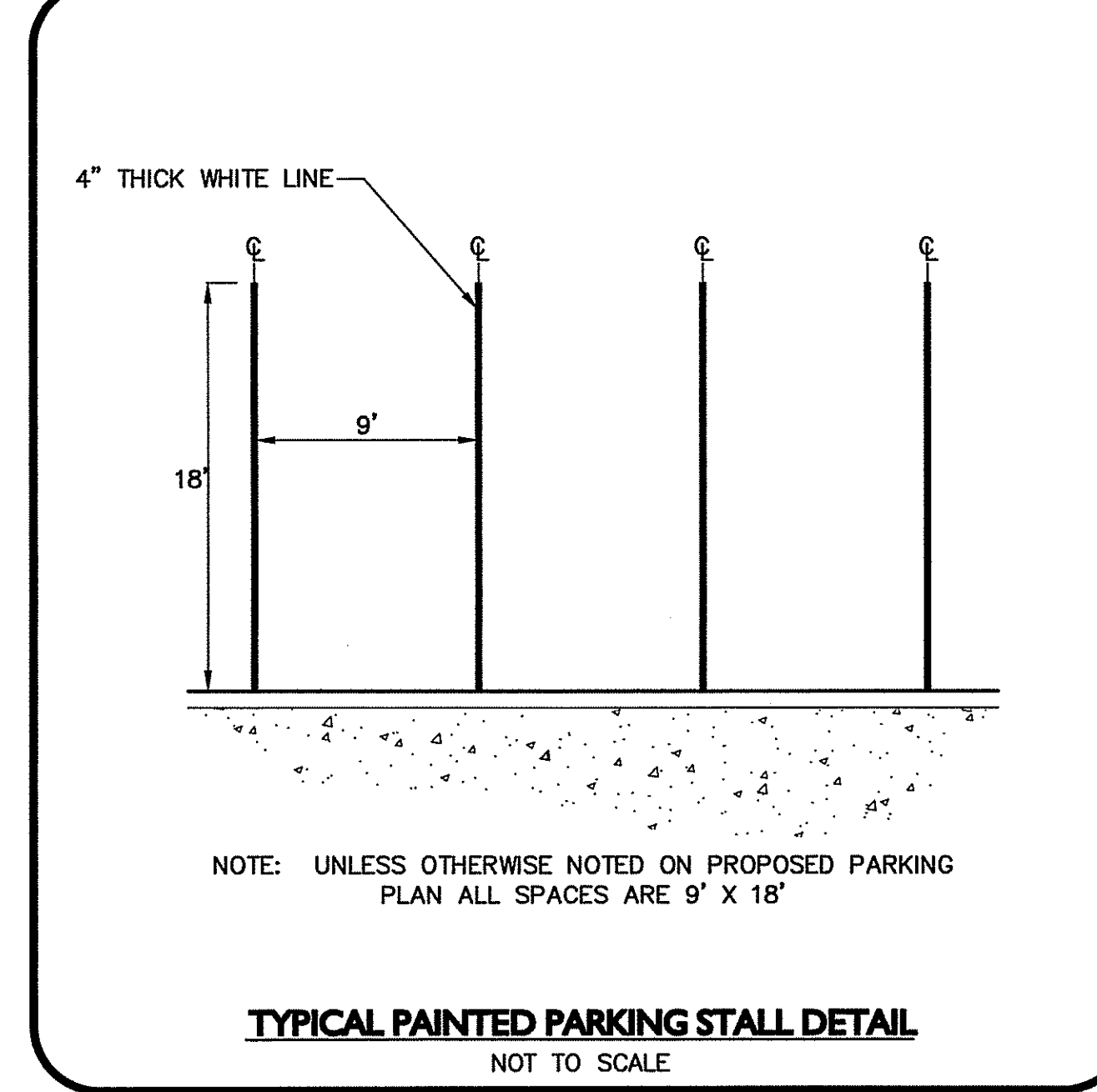
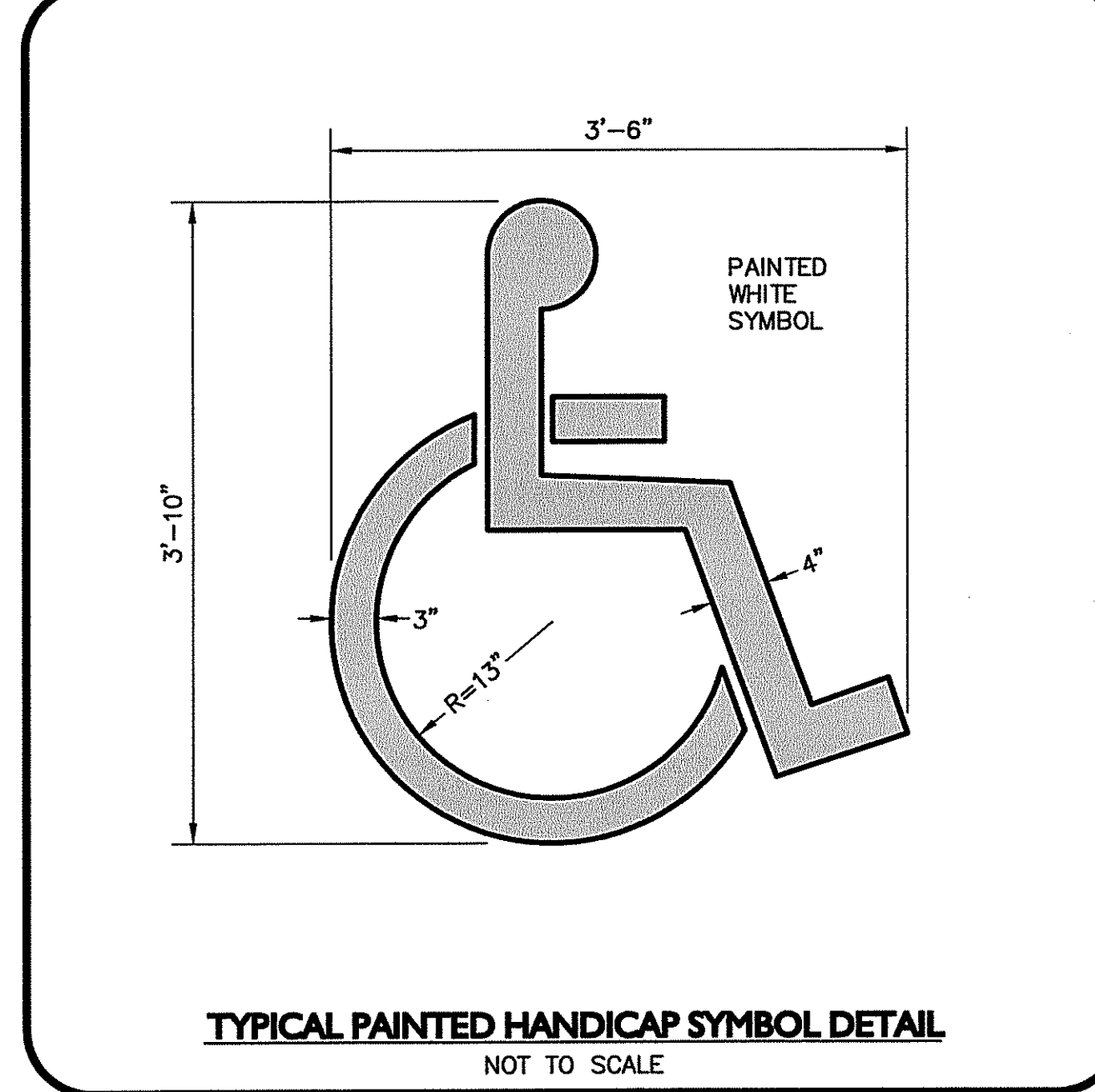
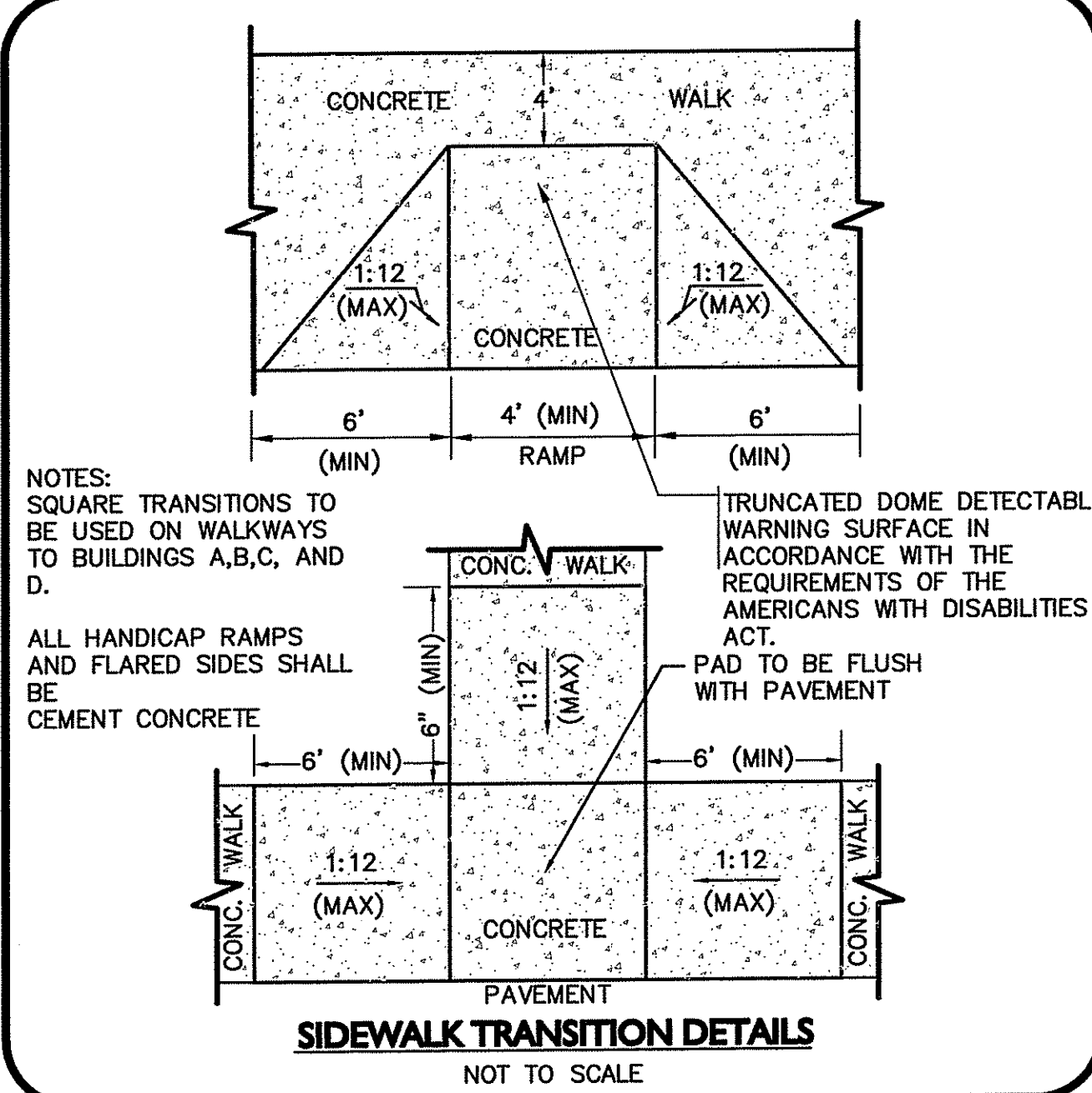
Details



MONTAGE PLUS MAJESTIC 2 RAIL FENCE
NOT TO SCALE

NOT TO SCALE

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Determination

drawing by:	MP,AB,MR	
drawing checked by:	RC	
drawing scale:	As Noted	
drawing date:	12.15.08	
drawing revisions:		
project number:	07035.00	
rev.	description	date
1	ISSUED FOR REQUEST FOR PRELIMINARY DETERMINATION	2-18-2009

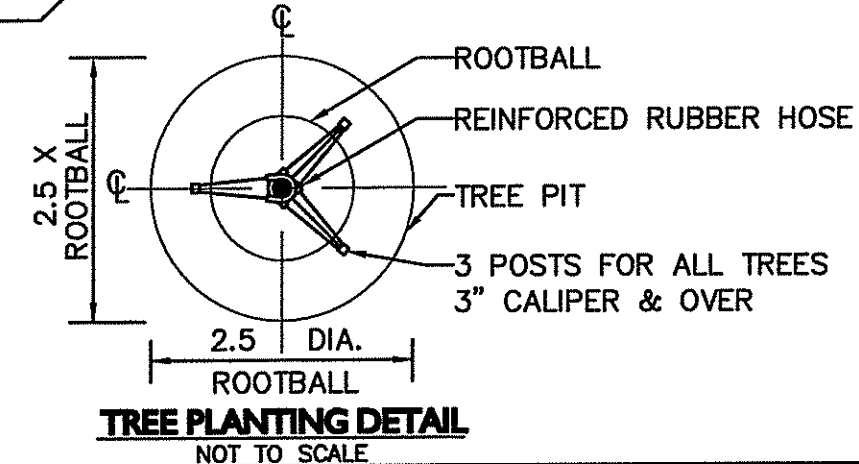
JAMES A. MAJOR
No. 3986
REGISTERED PROFESSIONAL ENGINEER

Details

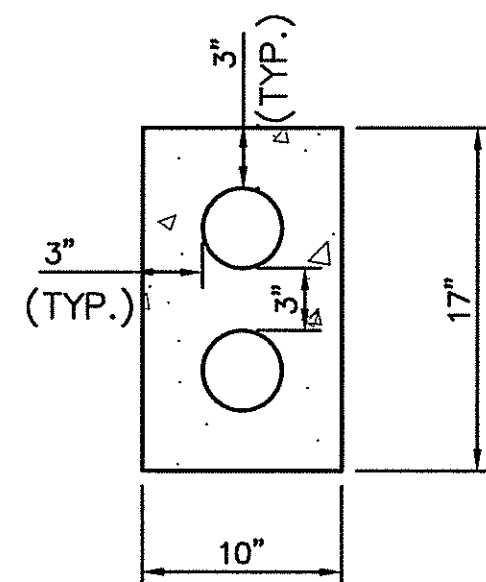
D-7
17 of 18

Diagram illustrating the components and dimensions for a tree planting pit:

- SHALL BE 2" ABOVE FINISH GRADE
- (2) MIN. 2" X 4" X 8' WOOD POSTS FOR TREES UNDER 3" CALIPER
- 10'0" FOR TREES > 3" CAL. 8'0" FOR TREES 3" CAL. AND UNDER
- 6" MIN. TOPSOIL, NEW OR EXISTING
- 3'0" MIN.
- UNDISTURBED SOIL
- ROOTBALL
- 2.5 DIA. ROOTBALL
- TREES
- REINFORCED RUBBER HOSE
- #10 GAUGE GALV. ANNEALED STEEL WIRE, 2 STRANDS TWISTED
- 3" BARK MULCH
- 4" EARTH SAUCER
- CUT & ROLL DOWN BURLAP @ TOP 1/3 OF ROOTBALL. IF SYNTHETIC, REMOVE ENTIRELY.
- PLANTING MIX BACKFILL



Plan view of the deck layout showing a 31' x 24' area. The layout includes 12 circular tables arranged in a 3x4 grid. The overall dimensions are 31' (width) and 24' (depth). The spacing between tables is 3' (typical). The table diameter is 4' (typical). The layout also shows a 3' (typical) spacing from the deck edge to the first table.

PHONE DEMARK2 DUCT BANK

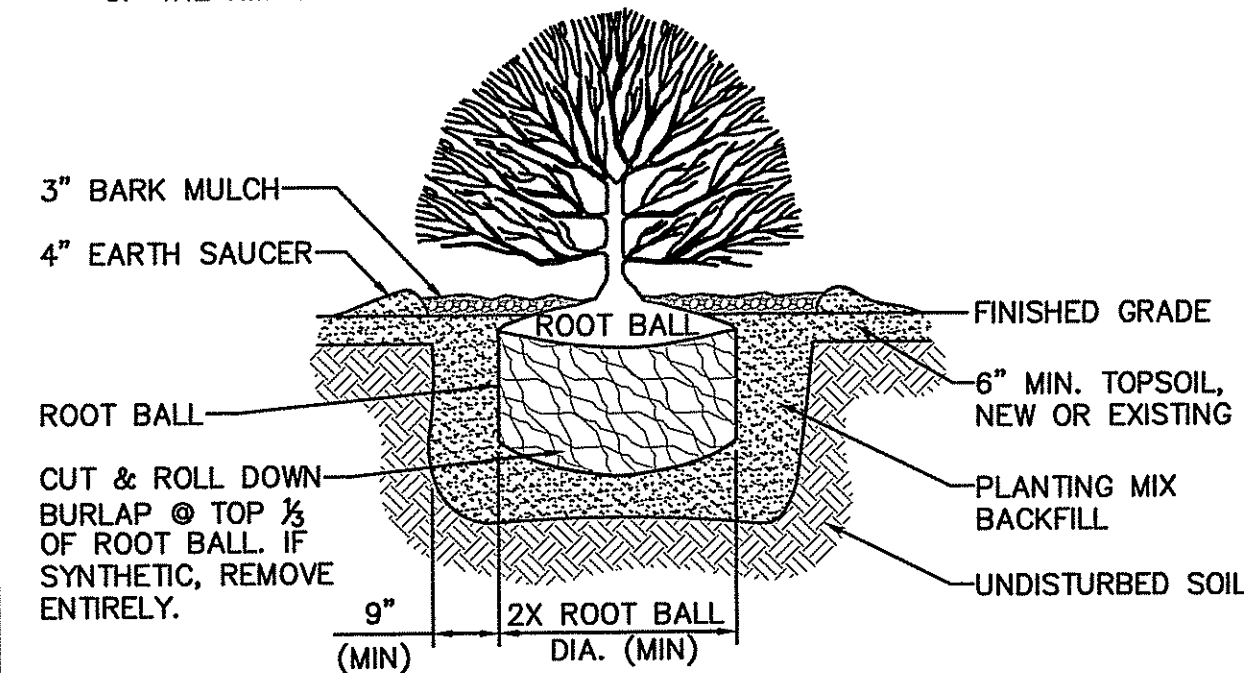
2-4" NATIONAL GRID DUCT BANK

FORM AND POUR IN PLACE.
CONTRACTOR TO COORDINATE WITH NATIONAL GRID
AND MEET ALL NATIONAL GRID REQUIREMENTS.

DUCT BANK DETAILS
1"=1'

NOTE:

1. ALL SHRUBS SHALL HAVE THE SAME RELATIONSHIP TO FINISHED GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING.
2. ALL SHRUBS ARE TO BE PLANTED AT 3'-0" O.C. OR AS SPECIFIED ON THE PLANS.
3. SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS



SHRUB PLANTING DETAIL
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ing scale: As Noted

ing date: 12.15.08

ing revisions:

ed number: 07025 00

description	date
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Page 10

JAMES A. MAJOR

No.  3986

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[illegible]

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Details

20

D-8

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