

# THE CONSTRUCTION PLANS FOR 2006 ROAD IMPROVEMENTS PROGRAM

BOROUGH OF MADISON  
MORRIS COUNTY, NEW JERSEY

SCALE AS INDICATED

MAY, 2006

## BOROUGH COUNCIL

ELLWOOD R. KERKESLAGER, Mayor  
CARMELA VITALE, Council President  
MARY-ANNA HOLDEN, Council Member  
ASTRI J. BAILLIE, Council Member  
DONALD J. BOWEN, Council President  
JOHN M. ELIAS, Council Member  
ROBERT H. CONLEY, Council Member

UTILITY COMPANIES	
GAS - PUBLIC SERVICE ELECTRIC & GAS	(908) 522-7411
SEWER - BOROUGH OF MADISON	(973) 593-3088
ELECTRIC - BOROUGH OF MADISON	(973) 593-3091
WATER - BOROUGH OF MADISON	(973) 593-3092
TELE - VERIZON	(800) 427-9977
CABLE - CABLEVISION	(973) 884-2293
NEW JERSEY ONE-CALL	(800) 272-1000

### NOTE:

LOCATION OF UTILITIES AS SHOWN ON THESE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND FIELD OBSERVATIONS BY THE BOROUGH ENGINEERING DEPARTMENT AND ARE NOT GUARANTEED AS TO EXACTNESS. THE CONTRACTOR IS TO CONTACT UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION AND DEPTH OF ALL UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL USE THE UTILITY LOCATIONS AS AN AID IN DETERMINING EXACT UTILITY LOCATIONS.

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DWG.	DESCRIPTION	REV.
1	COVER SHEET	
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5-6	FAIRVIEW AVENUE	
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10-11	CONSTRUCTION DETAILS	

## BOROUGH ADMINISTRATOR

JAMES R. ALLISON

## BOROUGH ENGINEER

ROBERT A. VOGEL, P.E., C.M.E.

## BOROUGH ATTORNEY

JOSEPH MEZZACCA, JR., ESQ.

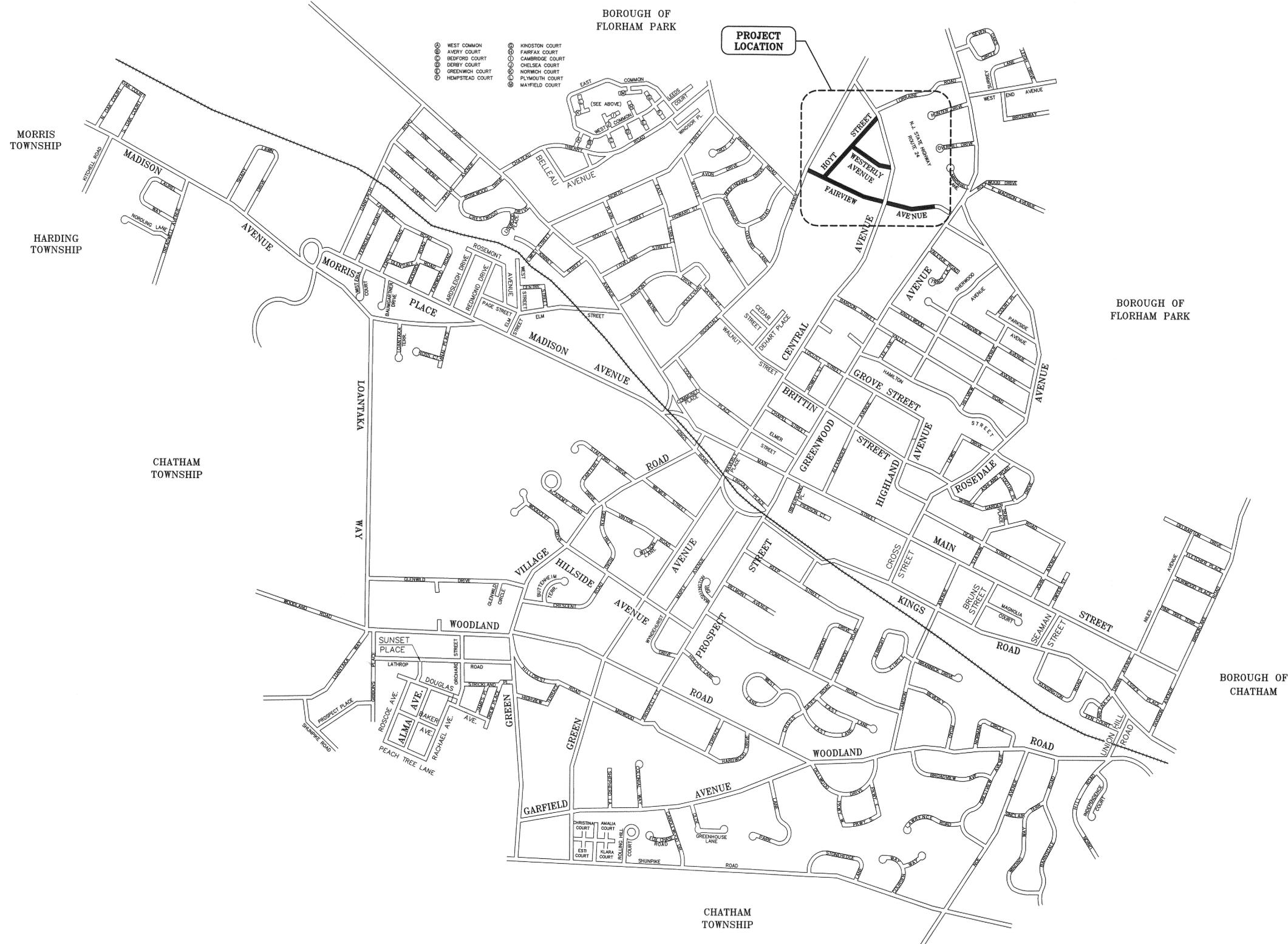
## WATER DEPARTMENT FOREMAN

SALVATORE DeBIASSE

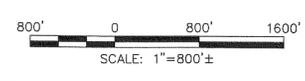
2001 STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION  
CURRENT NJDOT SUPPLEMENTAL SPECIFICATIONS  
AND CURRENT A.W.W.A STANDARDS TO GOVERN

BOROUGH OF MADISON  
DEPARTMENT OF ENGINEERING  
HARTLEY DODGE MEMORIAL  
MADISON, MORRIS COUNTY, N.J. 07940  
(973) 593-3060

DATE \_\_\_\_\_  
**ROBERT A. VOGEL, P.E.**  
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463



**2006 ROAD IMPROVEMENTS PROGRAM**  
**LOCATION PLAN**  
 BOROUGH OF MADISON  
 DEPARTMENT OF ENGINEERING  
 HARTLEY DODGE MEMORIAL  
 MADISON, MORRIS COUNTY, N.J. 07940  
 (973) 593-3060



NO.	REVISIONS	DATE	BY	CHK.	APPR.

DATE: \_\_\_\_\_  
**ROBERT A. VOGEL, P.E.**  
 PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

SCALE: 1" = 800'±  
 DATE: 4-24-06  
 DR. BY: D. BUCK  
 DWG. NO. 2 of 11

# 2006 ROAD IMPROVEMENTS

## ESTIMATE & DISTRIBUTION OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	FAIRVIEW AVENUE APPROX. QUANTITIES	HOYT STREET APPROX. QUANTITIES	WESTERLY AVENUE APPROX. QUANTITIES	TOTAL APPROX. CONTRACT QUANTITIES
1	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	100%	100%	100%	100%
2	POLICE TRAFFIC DIRECTORS	MAN HRS.	100	20	20	140
3	BITUMINOUS CONCRETE SURFACE, MIX 1-5	TONS	580	260	130	970
4	BITUMINOUS STABILIZED BASE, MIX 1-2	TONS	270	170	80	520
5	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	C.Y.	130	90	50	270
6	MILLING, PROFILE 0" TO 1.5"	S.Y.	3,000	500	0	3,500
7	ROOF DRAINS, (SDR 35)	L.F.	200	100	50	350
8	RESET MANHOLE CASTINGS	EACH	9	6	3	18
9	RESET/REPLACE VALVE STEM RISER	EACH	35	21	12	68
10	RESET INLET FRAME & GRATE	EACH	9	0	2	11
11	CONCRETE SIDEWALK, 4" THICK	S.Y.	670	0	0	670
12	REINF. CONCRETE D/W APRON, 6" THICK	S.Y.	420	0	0	420
13	DRIVEWAY RESTORATION, MIX 1-5	S.Y.	420	330	100	850
14	GRANITE BLOCK CURB	L.F.	3,500	500	50	4,050
15	SAW CUTS, 4" DEPTH	L.F.	3,650	550	0	4,200
16	UNCLASSIFIED ROADWAY EXCAVATION	C.Y.	100	100	100	300
17	15" DIA. REINFORCED CONCRETE PIPE, CL 5	L.F.	410	570	0	980
18	DRAINAGE "B" INLET	EACH	5	9	0	14
19	DRAINAGE MANHOLE	EACH	1	1	0	2
20	DRAINAGE MANHOLE CASTING/CONVERSION	EACH	1	3	0	4
21	SELECT BACKFILL	C.Y.	100	100	100	300
22	TRAFFIC STRIPING 12" STOP BAR	L.F.	60	30	20	110
23	TRAFFIC STRIPING, 4" SINGLE LINE	L.F.	0	100	100	200
24	TRAFFIC STRIPING, 4" DOUBLE LINE	L.F.	150	100	100	350
25	TRAFFIC STRIPING, X-WALKS	L.F.	120	50	50	220
26	TRAFFIC SIGNAGE (MUTCD 24")	EACH	4	2	2	8
27	TREE REMOVAL, OVER 12" TO 24"	UNIT	3	0	0	3
28	UNIT BLOCK RET. WALL (FACE)	S.F.	300	0	0	300
29	SOIL EROSION & SEDIMENT CONTROL PLAN	L.S.	100%	100%	100%	100%
30	LANDSCAPE RESTORATION	L.S.	100%	100%	100%	100%

2006 ROAD IMPROVEMENTS PROGRAM  
ESTIMATE & DISTRIBUTION  
OF QUANTITIES

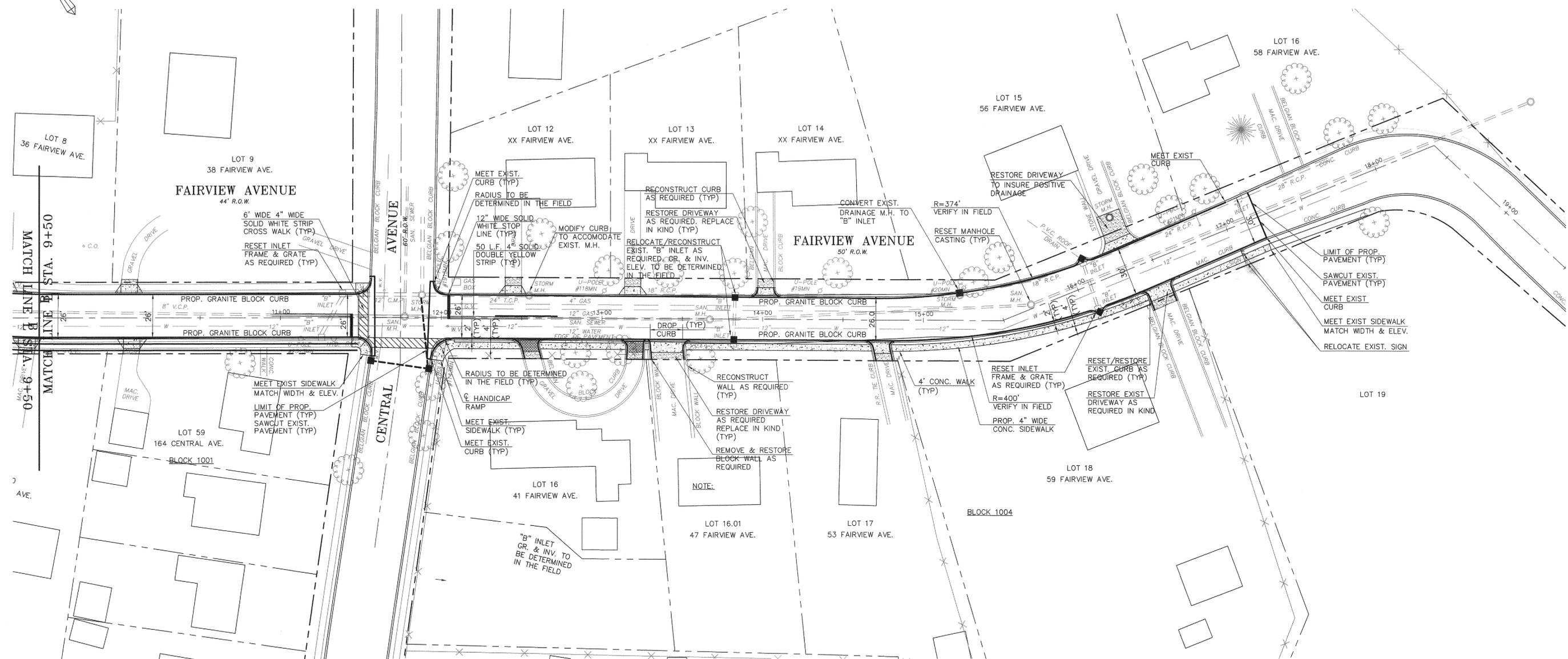
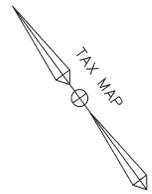
BOROUGH OF MADISON  
DEPARTMENT OF ENGINEERING  
HARTLEY DODGE MEMORIAL  
MADISON, MORRIS COUNTY, N.J. 07940  
(973) 593-3060

NO.	REVISIONS	DATE	BY	CHK.	APPR.

DATE: \_\_\_\_\_  
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PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

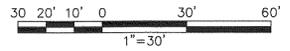
SCALE: N.T.S.  
DATE: 4-24-06  
DR. BY: D. BUCK  
DWG. NO. 4 of 11





**GENERAL NOTES**

1. R.O.W. LINES, PROPERTY LINES AND LOT INFORMATION SHOWN ON THIS PLAN ARE BASED UPON BOROUGH OF MADISON TAX MAPS.
2. ROADWAY UTILITIES AND ROADWAY UTILITIES ARE BASED UPON FIELD OBSERVATIONS PERFORMED BY THE BOROUGH OF MADISON ENGINEERING DEPARTMENT AND ARE APPROXIMATE IN LOCATION.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
4. ALL PAVEMENT REMOVAL SHALL BE SAW CUT.



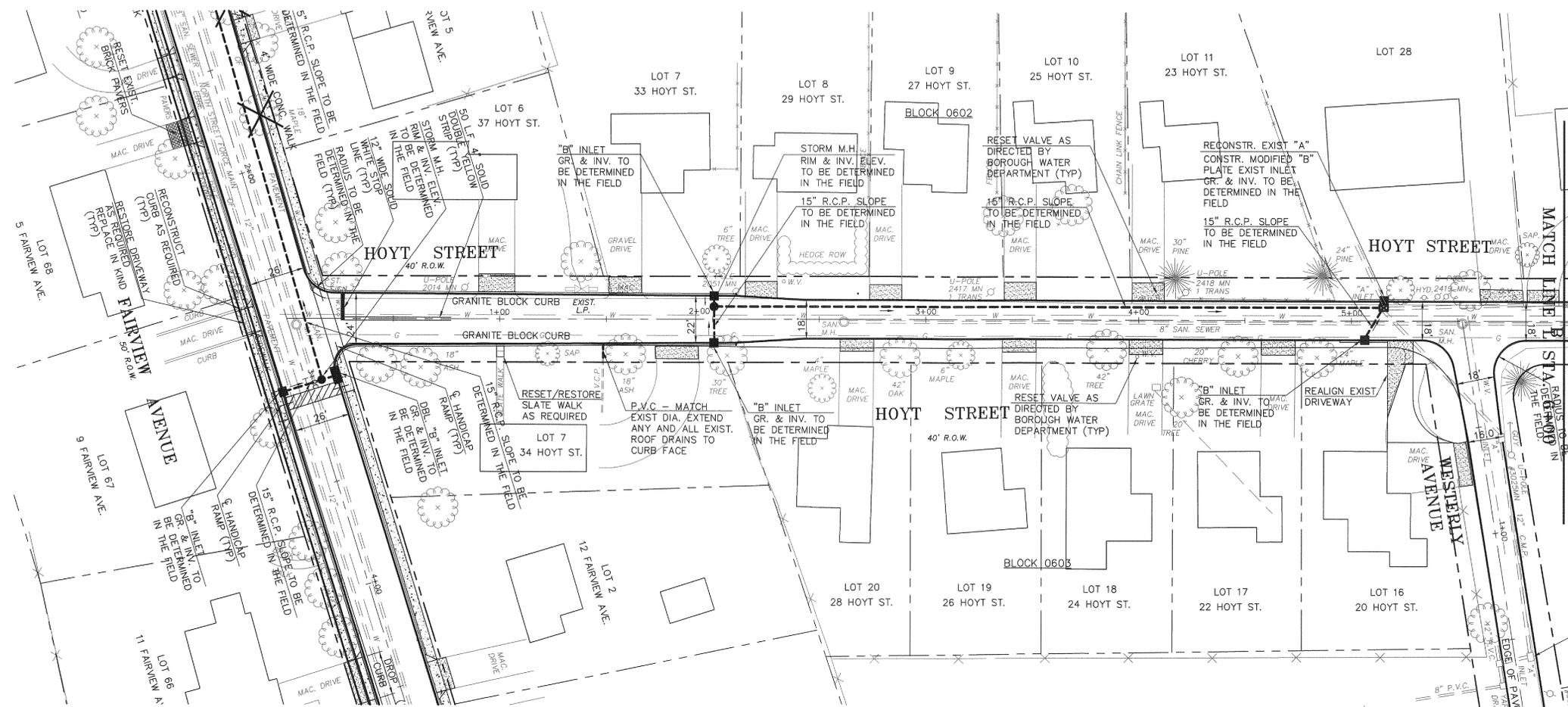
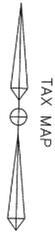
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**2006 ROAD IMPROVEMENTS PROGRAM  
FAIRVIEW AVENUE**

BOROUGH OF MADISON  
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**ROBERT A. VOGEL, P.E.**  
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SCALE: 1" = 30'  
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DR. BY: D. BUCK  
DWG. NO. 6 of 11



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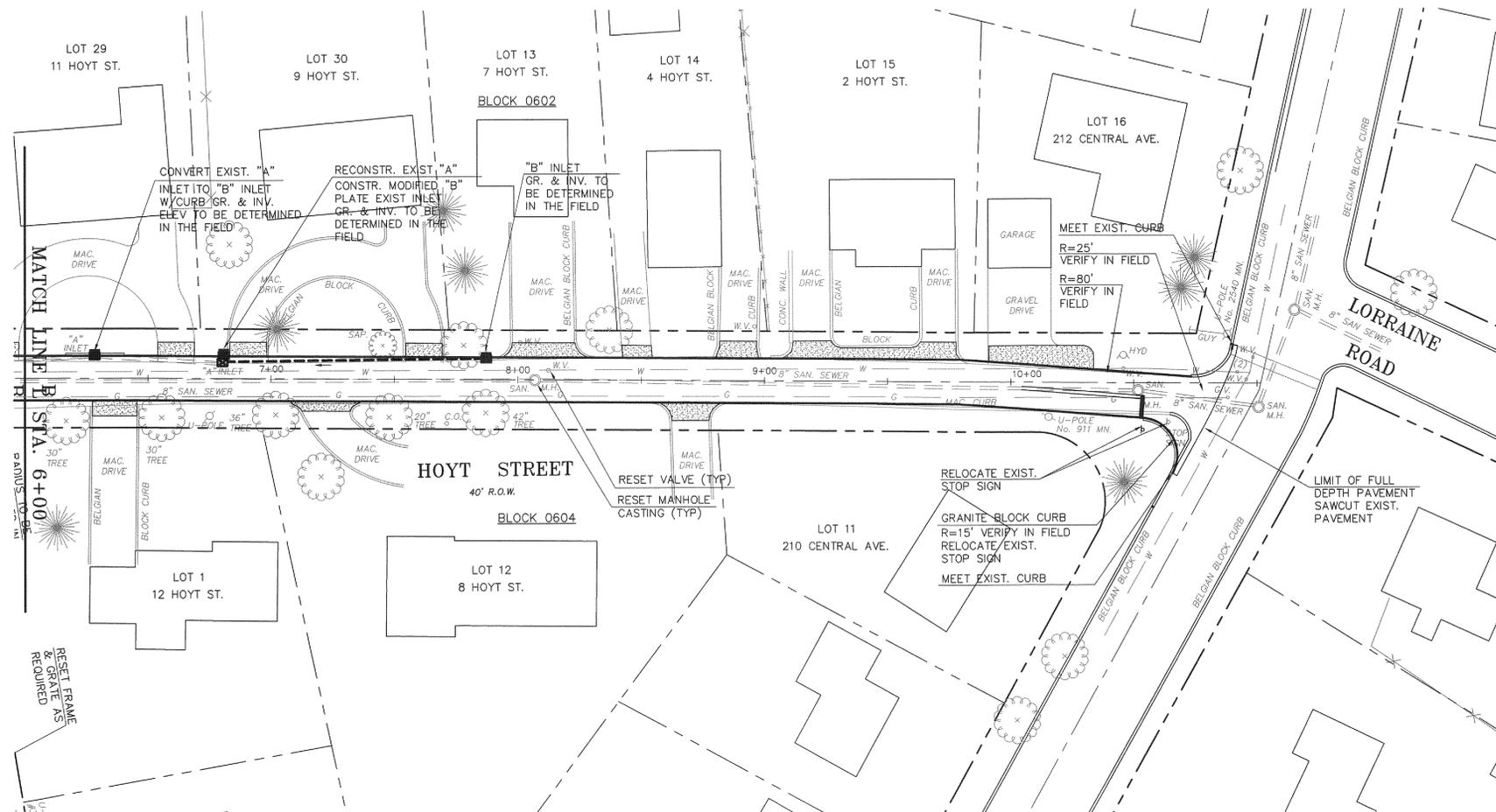
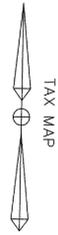
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**2006 ROAD IMPROVEMENTS PROGRAM  
HOYT STREET**

BOROUGH OF MADISON  
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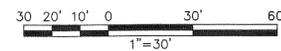
DATE \_\_\_\_\_  
**ROBERT A. VOGEL, P.E.**  
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

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DWG. NO: 7 of 11



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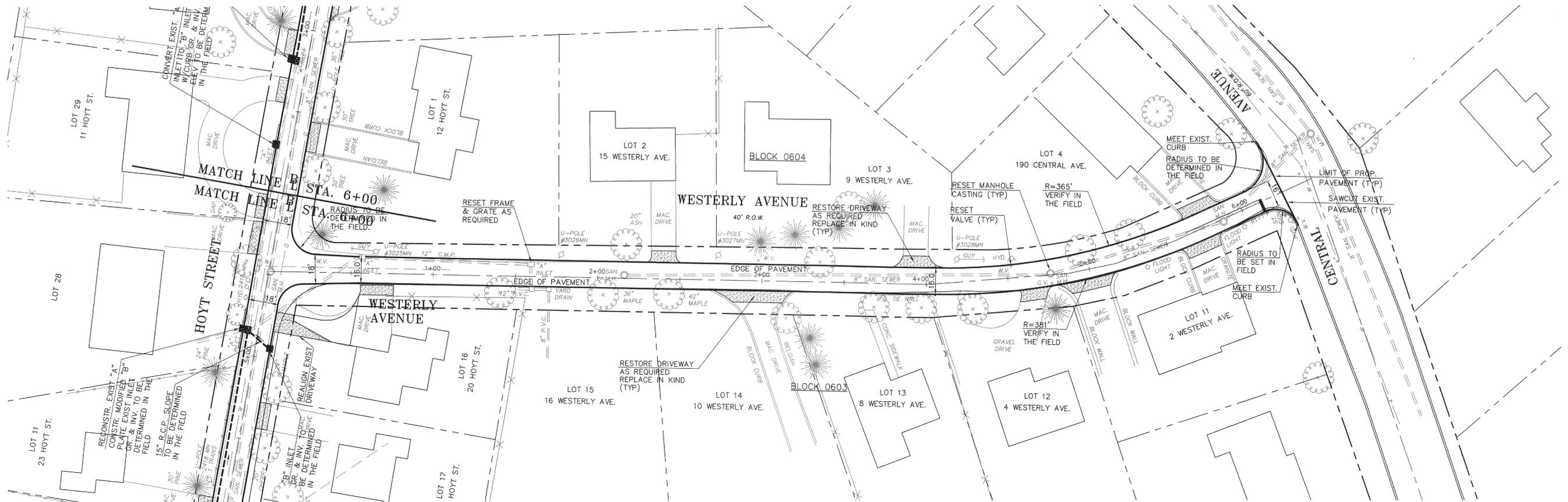
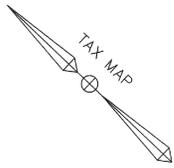
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HOYT STREET**

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DWG. NO. 8 of 11



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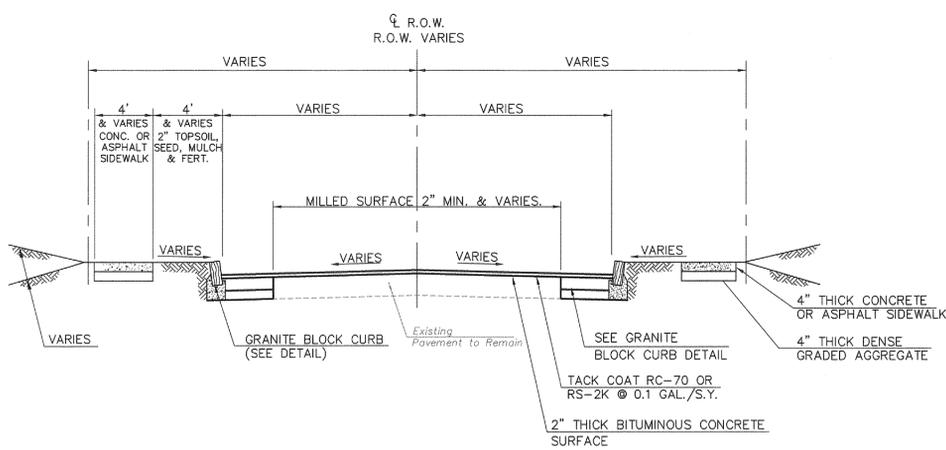
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**2006 ROAD IMPROVEMENTS PROGRAM  
WESTERLY AVENUE**

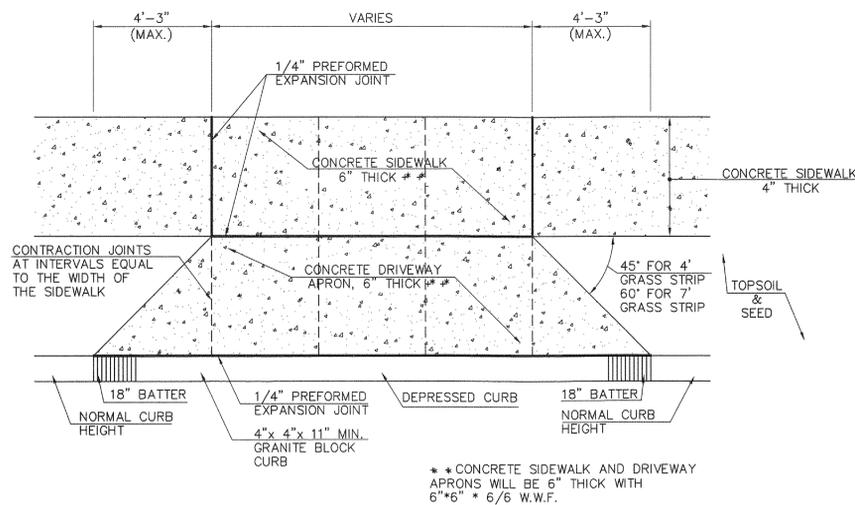
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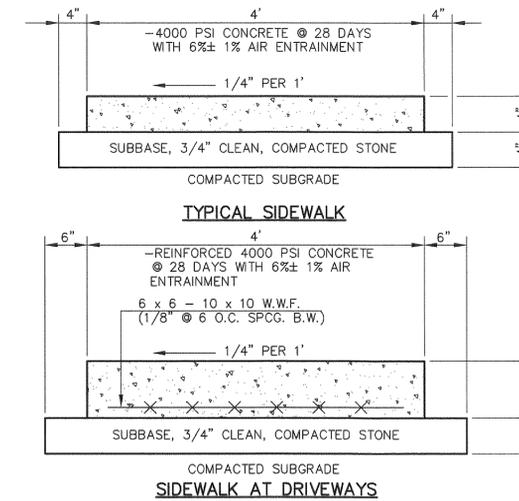
SCALE: 1" = 30'  
DATE: 4-24-06  
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DWG. NO. 9 of 11



**TYPICAL CROSS SECTION**  
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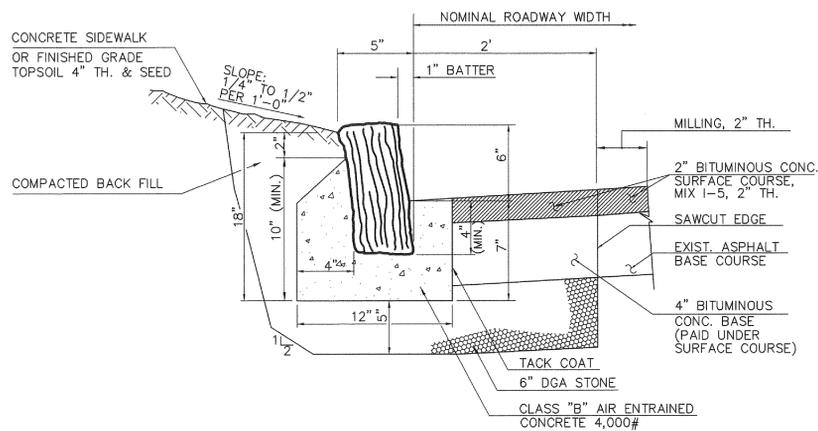


**CONCRETE DRIVEWAY APRON DETAIL**  
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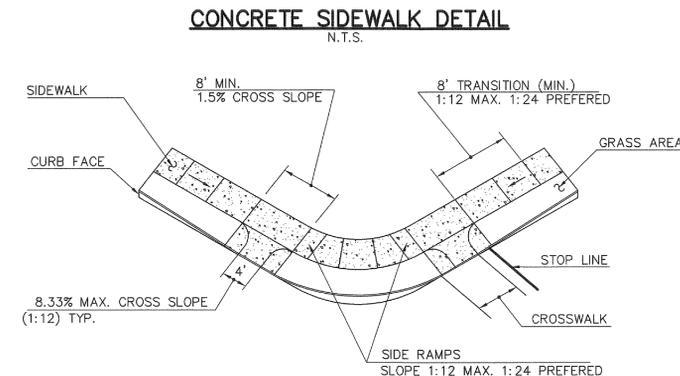


**GENERAL NOTES:**

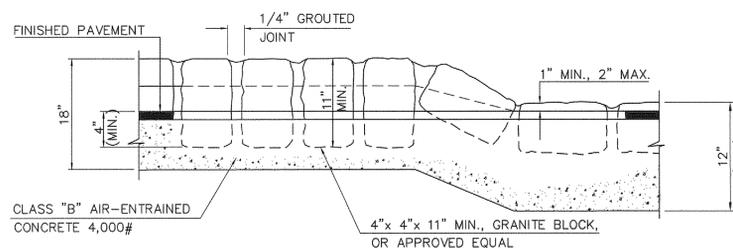
1. ANY CONCRETE PLACED BETWEEN NOVEMBER 15 AND APRIL 1 MUST CONFORM TO ARTICLES 501.11 AND 501.17 OF THE N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1989 EDITION, USING 2% CALCIUM CHLORIDE, HOT WATER, COVERED W/SALT HAY.
2. WHERE SIDEWALK CROSSES A DRIVEWAY, THE MINIMUM THICKNESS SHALL BE 6 INCHES AND REINFORCED WITH 6" x 6", #5 WIRE MESH.
3. SLUMP TEST: 3"-4".
4. EXPANSION JOINTS EVERY 20', CONSTRUCTION JOINTS EVERY 4' AT A DEPTH OF 1/4" THICKNESS OF CONCRETE.



**CONCRETE DRIVEWAY APRON DETAIL**  
N.T.S.

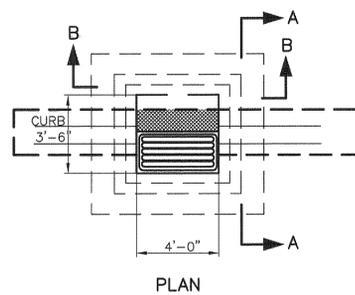


**CONCRETE SIDEWALK DETAIL**  
N.T.S.

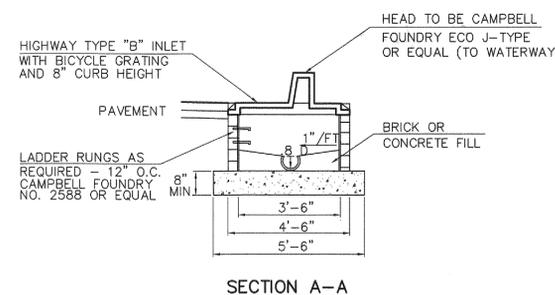


- NOTES:**
1. CONSTRUCTION AT DRIVEWAY APRONS SIMILAR TO DETAILS ABOVE.
  2. JOINTS TO BE CLEANED AND DAMP PRIOR TO POINTING.

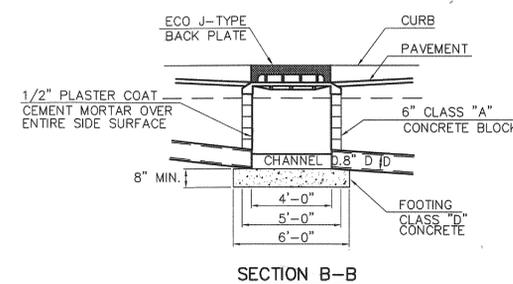
**GRANITE BLOCK CURB**  
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N.T.S.



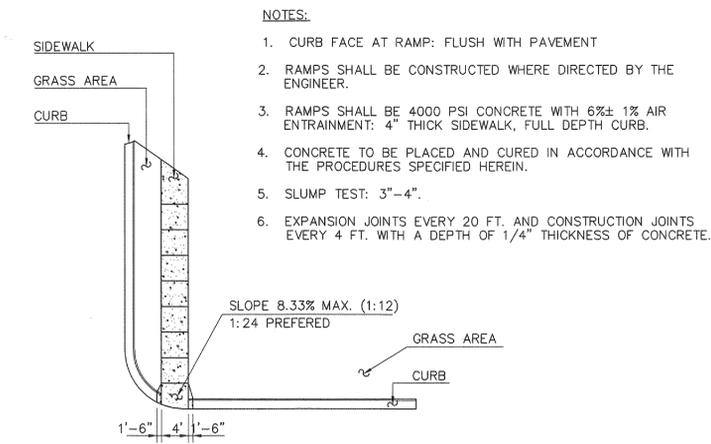
**B TYPE INLET**  
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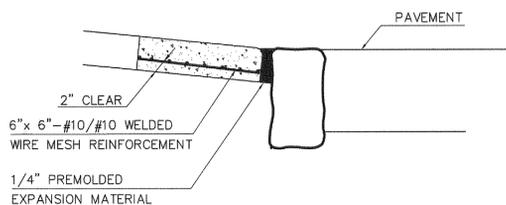
**SECTION A-A**



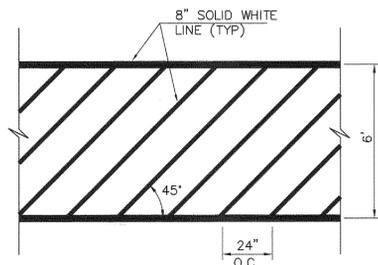
**SECTION B-B**



**HANDICAP RAMP**  
N.T.S.



**HANDICAPPED ACCESS RAMP**  
N.T.S.



**CROSSWALK DETAIL**  
N.T.S.

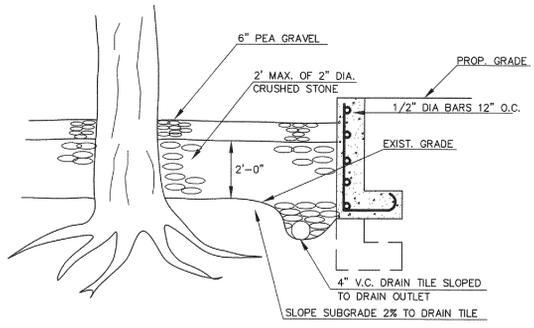
**2006 ROAD IMPROVEMENTS PROGRAM CONSTRUCTION DETAILS**

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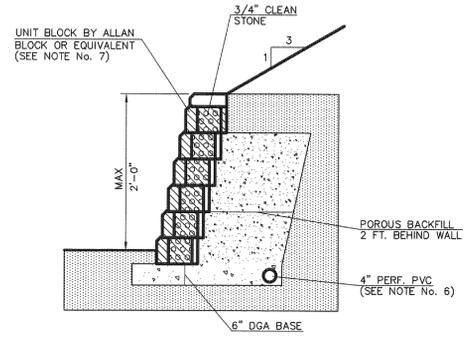
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SCALE	DATE	DR. BY	DWG. NO.
N.T.S.	4-24-06	D. BUCK	10 of 11

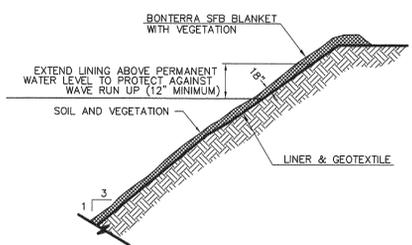


**FILL AROUND TREES 2' TO 4' DEEP**  
N.T.S.

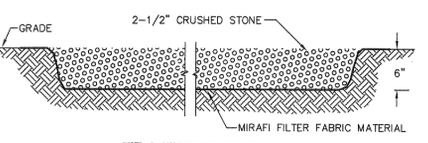


- GENERAL NOTES**
1. MAXIMUM SLOPE ABOVE THE WALL SHALL BE 3H:1V.
  2. THE WALL SHALL BE INSTALLED ON A BASE OF 6\"/>

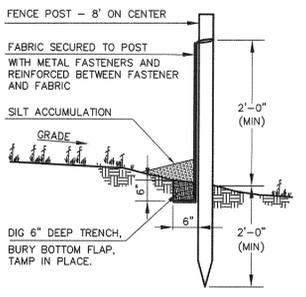
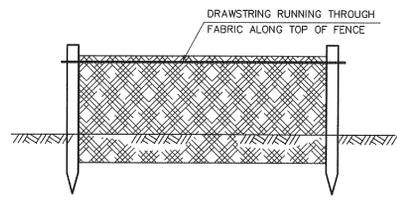
**UNIT BLOCK RETAINING WALL**  
N.T.S.



**VEGETATIVE ARMOR DETAIL**  
3:1 SLOPE DETAIL



**TRACKING PAD**  
N.T.S.



**REQUIREMENTS FOR SILT FENCE**

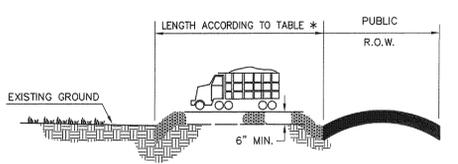
1. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.
2. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
3. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

**SILT FENCE**  
N.T.S.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE <sup>1</sup>	

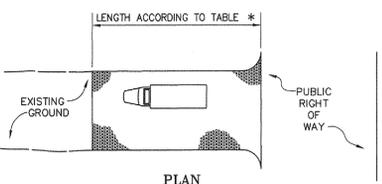
1. AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

**LENGTHS OF CONSTRUCTION EXITS ON SLOPING ROADBEDS**



**PROFILE**

USE ASTM C-33, SIZE No. 2 2-1/2\"/>



**PLAN**

\* NOTE INDIVIDUAL LOT ACCESS POINTS MAY REQUIRE STABILIZATION THICKNESS SHOWN IS FOR CONSTRUCTION ENTRANCE ONLY. (TYP)

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**

**DUST CONTROL MATERIALS**

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLON/ACRE E
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) (SPRAY-ON)			
POLYACRYLAMIDE (PAM) (DRY SPREAD)			
ACIDULATED SOY BEAN SOUP STICK	NONE	COARSE SPRAY	1200

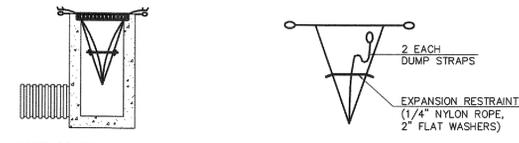
**TILLAGE:** TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS PLACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

**SPRINKLING:** SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

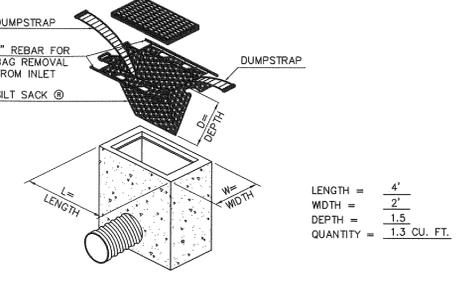
**BARRIERS:** SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

**CALCIUM CHLORIDE:** SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

**STONE:** COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



**INSTALLATION DETAIL BAD DETAIL**



**INLET FILTER DETAIL**  
N.T.S.

$$\begin{aligned} \text{LENGTH} &= \frac{4'}{2} \\ \text{WIDTH} &= \frac{2'}{1.5} \\ \text{DEPTH} &= \frac{1.5}{1} \\ \text{QUANTITY} &= 1.3 \text{ CU. FT.} \end{aligned}$$



**TREE PROTECTION DETAIL**  
N.T.S.

**CRITERIA FOR PROTECTING REMAINING TREES**

1. BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED AT THE DRIP LINE OF THE TREE BRANCHES OR BEYOND. TREE ROOT SYSTEMS COMMONLY EXTEND WELL BEYOND THE DRIP LINE.
2. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
3. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE DRIP LINE OF THE BRANCHES.
4. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT CARE. FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR CERTIFIED TREE EXPERT.
5. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH AS CLOSE AS POSSIBLE TO THE BRANCH COLLAR. THERE SHOULD BE NO FLUSH CUTS. FLUSH CUTS DESTROY A MAJOR DEFENSE SYSTEM OF THE TREE. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT THE OUTSIDE EDGE OF THE BRANCH COLLAR CUTS MADE TO FAR BEYOND THE BRANCH COLLAR MAY LEAD TO EXCESS SPROUTING, CRACKS AND ROT. REMOVAL OF A "Y" CROTCH SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE.

**HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" (LAST REVISED IN APRIL 1987). THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ALL SOIL TO BE STOCKPILED FOR A PERIOD OF GREATER THAN 30 DAYS WILL BE TEMPORARILY SEEDED AND HAY MULCHED (OR HYDROSEEDING).
3. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND HAY MULCHED (OR HYDROSEEDING) UNTIL PROPER WEATHER EXISTS FOR THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
4. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER: SPRING - MARCH 15 - MAY 30 FALL - AUGUST 15 - OCTOBER 15
5. SEDIMENT FENCES ARE TO REMAIN IN PLACE AND MAINTAINED PROPERLY UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
6. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED WITH GRAVEL FILTERS, FABRIC FILTER OR HAY BALES UNTIL VEGETATION AND PAVING HAS BEEN ESTABLISHED.
7. MULCH MATERIALS SHALL BE UNROTTED SALT HAY OR SMALL GRAIN STRAW APPLIED AT THE RATE OF AT LEAST 1.5 TONS PER ACRE 75 POUNDS PER 1000 SQUARE FEET. IN NO CASE SHALL MORE THAN FIVE DAYS ELAPSE BETWEEN SEEDING AND MULCHING, OR BY HYDROSEEDING AS PER THE MANUFACTURER'S SPECIFICATIONS.
8. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
9. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PERIODICALLY.
10. ALL STORM DRAINAGE OUTLET POINTS WILL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
11. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO ANY SOIL DISTURBANCE.
12. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT OF COMPLIANCE PRIOR TO APPLYING FOR THE MUNICIPAL CERTIFICATE OF OCCUPANCY. PLEASE GIVE THE DISTRICT ONE WEEK NOTICE TO SCHEDULE THIS INSPECTION.
13. A BOND WILL BE ACCEPTED BY THE DISTRICT TO ISSUE A TEMPORARY REPORT OF COMPLIANCE WHEN SNOW COVER PROHIBITS THE PROPER SEED, MULCH OR HYDROSEED APPLICATION.
14. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT USE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS RUNOFF IS DIRECTED TO A PROPER SEDIMENT BASIN.
15. ALL SURFACES ARE TO BE TREATED WITH SIX INCHES OF TOPSOIL TO SEEDING.
16. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW.
17. A CRUSHED STONE WHEEL CLEANING "TRACKING PAD" IS TO BE INSTALLED AT ALL SITE EXITS USING 2 1/2 INCH STONE TO A LENGTH OF AT LEAST 50 FEET. ALL DRIVEWAYS MUST EXHIBIT THIS ITEM IN THE DRIVE DURING CONSTRUCTION.
18. MAXIMUM SIDE SLOPES SHALL NOT EXCEED 2:1 UNLESS APPROVED BY THE DISTRICT.
19. ALL DEWATERING OPERATIONS SHALL DISCHARGE INTO AN APPROVED SEDIMENT BASIN.
20. THE DISTRICT MUST BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF ANY BUILDING LOTS. NEW OWNER'S NAME(S), ADDRESS, AND PHONE NO. SHALL BE PROVIDED TO THE DISTRICT.

**STANDARDS FOR DUST CONTROL**

- DEFINITIONS**  
THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.
- PURPOSE**  
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
- CONDITIONS WHERE PRACTICE APPLIES**  
CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH ANY MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.
- WATER QUALITY ENHANCEMENT**  
WATER QUALITY ENHANCEMENT: SEDIMENTS DEPOSITED AS "DUST" ARE OFTEN FINE COLLOIDAL MATERIAL WHICH IS EXTREMELY DIFFICULT TO REMOVE FROM WATER ONCE IT BECOMES SUSPENDED. USE OF THIS STANDARD WILL HELP TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SITES AND SUBSEQUENT BLOWING AND DISPOSITION INTO LOCAL SURFACE WATER RESOURCES.
- PLANNING CRITERIA**  
THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
- MULCHES: SEE STANDARD OF STABILIZATION WITH MULCHES ONLY, PG. 5-1.
- VEGETATIVE COVER: SEE STANDARD FOR; TEMPORARY VEGETATIVE COVER, PG. 7-1. PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND PERMANENT STABILIZATION WITH SOIL.
- SPRAY-ON ADHESIVES: ON MINERAL SOILS (NO EFFECTIVE ON MUCK SOILS) KEEP TRAFFIC OFF THESE AREAS.

**2006 ROAD IMPROVEMENTS PROGRAM CONSTRUCTION DETAILS**

BOROUGH OF MADISON  
DEPARTMENT OF ENGINEERING  
HARTLEY DODGE MEMORIAL  
MADISON, MORRIS COUNTY, N.J. 07940  
(973) 593-3060

NO.	REVISIONS	DATE	BY	CHK.	APPR.

DATE: \_\_\_\_\_  
**ROBERT A. VOGEL, P.E.**  
PROFESSIONAL ENGINEER N.J. LIC. NO. 34463

SCALE: N.T.S.  
DATE: 4-24-06  
DR. BY: D. BUCK  
DWG. NO. 11 OF 11