

- NOTES:
- SUBJECT PROPERTY IS ZONED: RR2 - RURAL RESIDENTIAL 2.
 - LOCUS AS SHOWN CONTAINS PARCEL 12 ON THE TOWN OF WARE ASSESSOR'S MAP 35.
 - OWNER'S REFERENCE: HAMPSHIRE COUNTY REGISTRY OF DEEDS BOOK 8579, PAGE 277.
 - PROPERTY LINES SHOWN ARE BASED ON A PLAN ENTITLED "PLAN OF LAND IN WARE OWNED BY MICHAEL B. JR, RICHARD & MICHAEL B. GUZIK, BK 1818 - PG 265", PREPARED BY R.H. LEMAIRE, DATED JANUARY 24, 1983.
 - EXISTING TOPOGRAPHY WAS DEVELOPED WITH FIELD SURVEY BY THIS OFFICE CONDUCTED BETWEEN AUGUST AND DECEMBER 2006.
 - WETLANDS AS DELINEATED BY KEITH MORRIS & MICHAEL GRAGNOLATI, ENVIRONMENTAL CONSULTANTS ON JULY 12, 2006 AND FIELD LOCATED BY THIS OFFICE.
 - THE HIGH WATER MARK OF THE MUDDY BROOK WAS DELINEATED BY KEITH MORRIS & MICHAEL GRAGNOLATI, ENVIRONMENTAL CONSULTANTS ON JULY 12, 2006 AND FIELD LOCATED BY THIS OFFICE.
 - FLOOD PLAIN AS SCALED FROM THE FIRM MAP - TOWN OF WARE MASSACHUSETTS, HAMPSHIRE COUNTY, PANEL 13 OF 30, PANEL NUMBER 250172 0013, DATED AUGUST 17 1981.

INDEX OF SHEETS

- SHEET 1 of 5 EXISTING CONDITIONS & ABUTTERS PLAN
- SHEET 2 of 5 PROPOSED LOT DIVISION/SITE GRADING PLAN
- SHEET 3 of 5 PHASE 1, 2 & 3 GRADING PLAN
- SHEET 4 of 5 CROSS SECTIONS
- SHEET 5 of 5 DETAILS

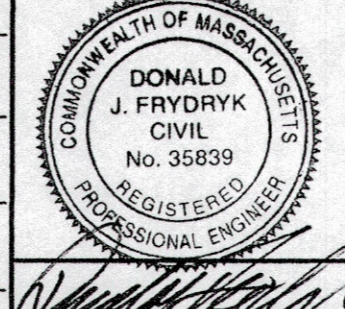
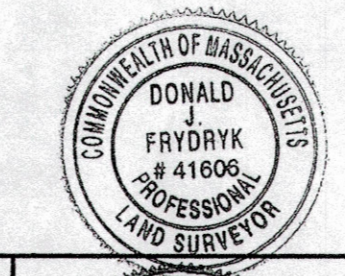
LEGEND & ABBREVIATIONS

□ C.B. FD.	CONCRETE BOUND FOUND
○ I.P. FD.	IRON PIN FOUND
○ I.B. FD.	IRON BAR FOUND
⊙	SANITARY MANHOLE
⊙	DRAIN MANHOLE
□ CB	CATCH BASIN
→	FLOW DIRECTION
○ W.G.	WATER GATE
○ U.P.	UTILITY POLE
☆	GUY
☆	LIGHT POLE
TP-1/ MW-A	TEST PIT/ MONITORING WELL
-195-	EXISTING CONTOURS (5' INTERVAL)
-195-	EXISTING CONTOURS (1' INTERVAL)
-S-	SANITARY SEWER LINE
-G-	GAS LINE
-D-	DRAIN LINE
-W-	WATER LINE
⊘	STONE WALL
—	GUARD RAIL

NO.	DATE	BY	REVISIONS
1	7/22/08	GPH	ADD SHEET 7 OF 8
2	11/17/08	KTT	REVISED GRADING SCHEME & LIMIT OF EARTH REMOVAL
3	4/8/09	KTT	ADD PHASE 3 EARTH REMOVAL
4	7/14/09	DJF	FINAL APPROVAL

SHERMAN & FRYDRYK
Land Surveying and Engineering
 3 Converse Street, Suite 203
 Palmer, MA 01069

DESIGN:	GPH
DRAFTING:	GPH
CHECKED:	DJF
APPROVED:	DJF



SCALE:	
HORZ:	1"=80'
VERT:	N/A
DATE:	4/16/08

EXISTING CONDITIONS & ABUTTERS PLAN

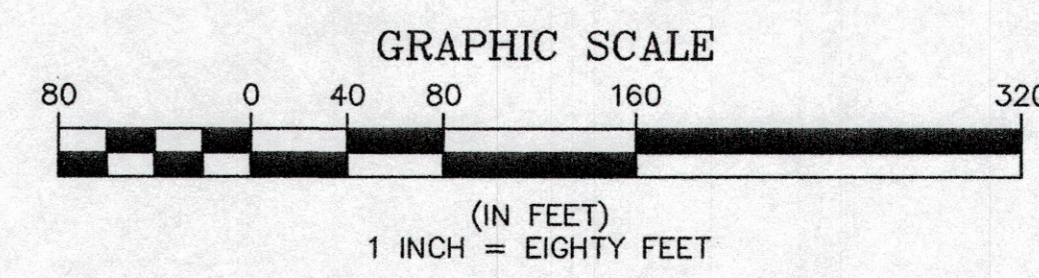
F.T. SMITH TRUCKING & EXCAVATING, INC.
 214 CHARLES LANE ROAD
 NEW BRAintree, MA 01531

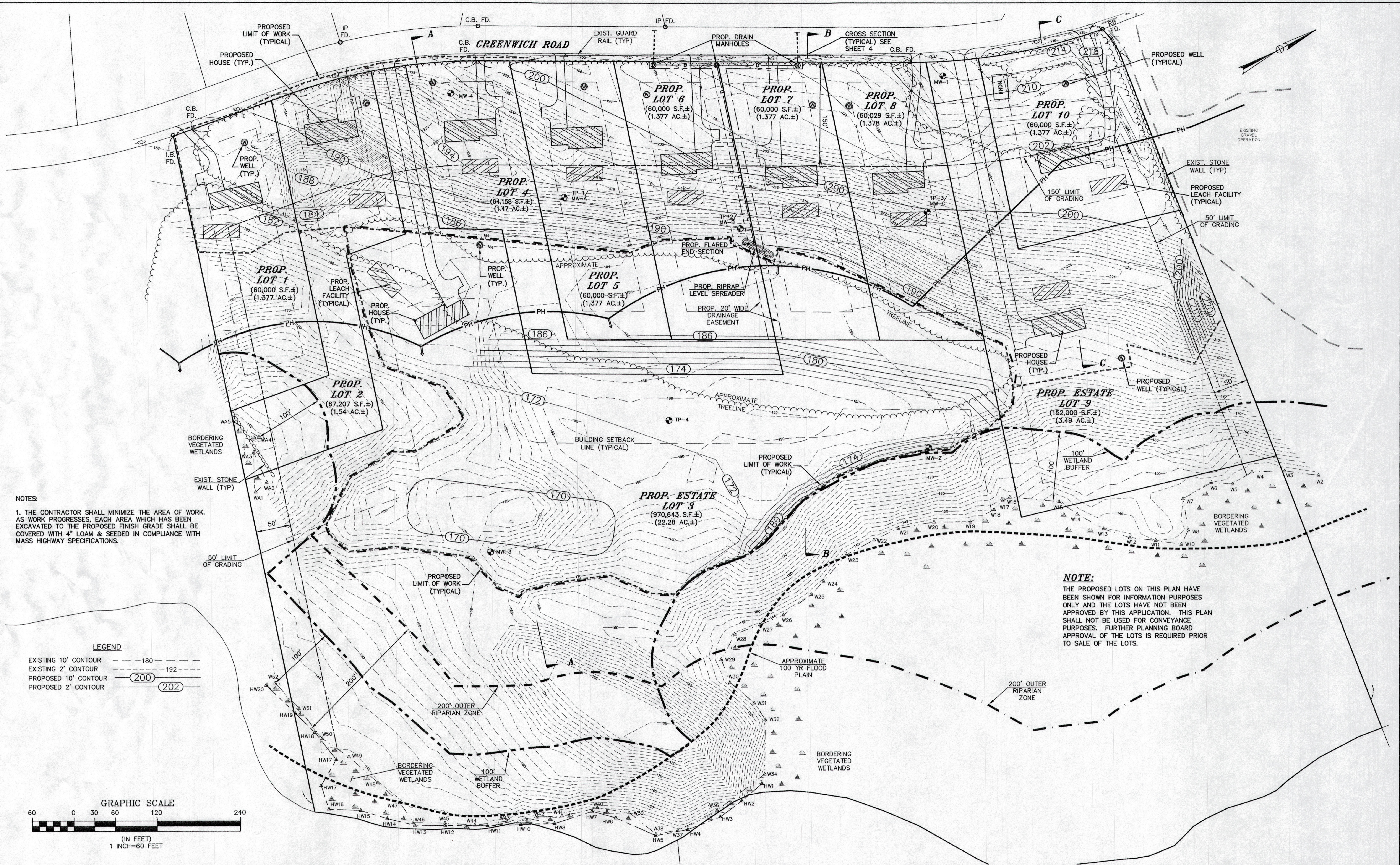
PROJECT NUMBER	06131
SHEET NUMBER	1 OF 5

SP-2008-004 EARTH REMOVAL GREENWICH ROAD **EXHIBIT 4 FINAL PLANS**
Sherman & Frydryk Engineers REVISED: 07-14-2009 SPECIAL PERMIT APPROVED: 07-15-2009

OWNER/APPLICANT:

F.T. SMITH TRUCKING & EXCAVATING, INC.
 214 CHARLES LANE ROAD
 NEW BRAintree, MA 01531



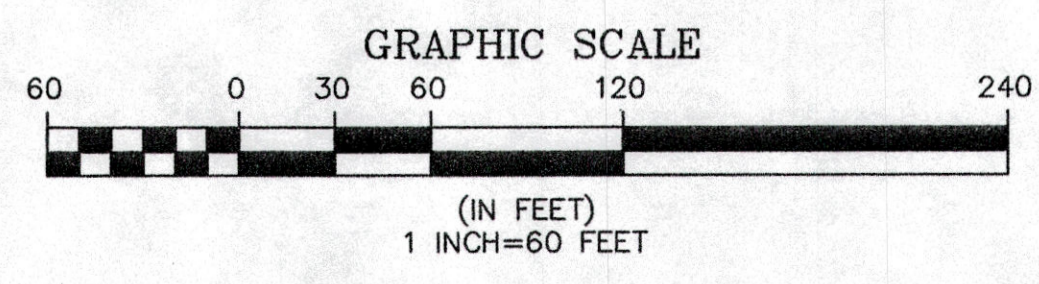


NOTES:
 1. THE CONTRACTOR SHALL MINIMIZE THE AREA OF WORK. AS WORK PROGRESSES, EACH AREA WHICH HAS BEEN EXCAVATED TO THE PROPOSED FINISH GRADE SHALL BE COVERED WITH 4" LOAM & SEEDED IN COMPLIANCE WITH MASS HIGHWAY SPECIFICATIONS.

NOTE:
 THE PROPOSED LOTS ON THIS PLAN HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY AND THE LOTS HAVE NOT BEEN APPROVED BY THIS APPLICATION. THIS PLAN SHALL NOT BE USED FOR CONVEYANCE PURPOSES. FURTHER PLANNING BOARD APPROVAL OF THE LOTS IS REQUIRED PRIOR TO SALE OF THE LOTS.

LEGEND

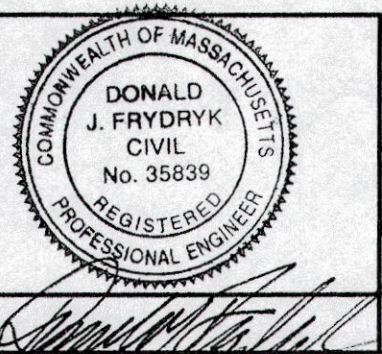
EXISTING 10' CONTOUR	--- 180 ---
EXISTING 2' CONTOUR	--- 192 ---
PROPOSED 10' CONTOUR	--- 200 ---
PROPOSED 2' CONTOUR	--- 202 ---



NO.	DATE	BY	REVISIONS
1	7/22/08	GPH	SWITCH PHASES, REGRADE
2	11/17/08	KTT	REVISED GRADING SCHEME & LIMIT OF EARTH REMOVAL
3	4/8/09	KTT	ADD PHASE 3 EARTH REMOVAL
4	7/14/09	DJF	FINAL APPROVAL - PROPOSED LOT NOTE

SHERMAN & FRYDRYK
Land Surveying and Engineering
 3 Converse Street, Suite 203
 Palmer, MA 01069

DESIGN: GPH
 DRAFTING: GPH
 CHECKED: DJF
 APPROVED: DJF

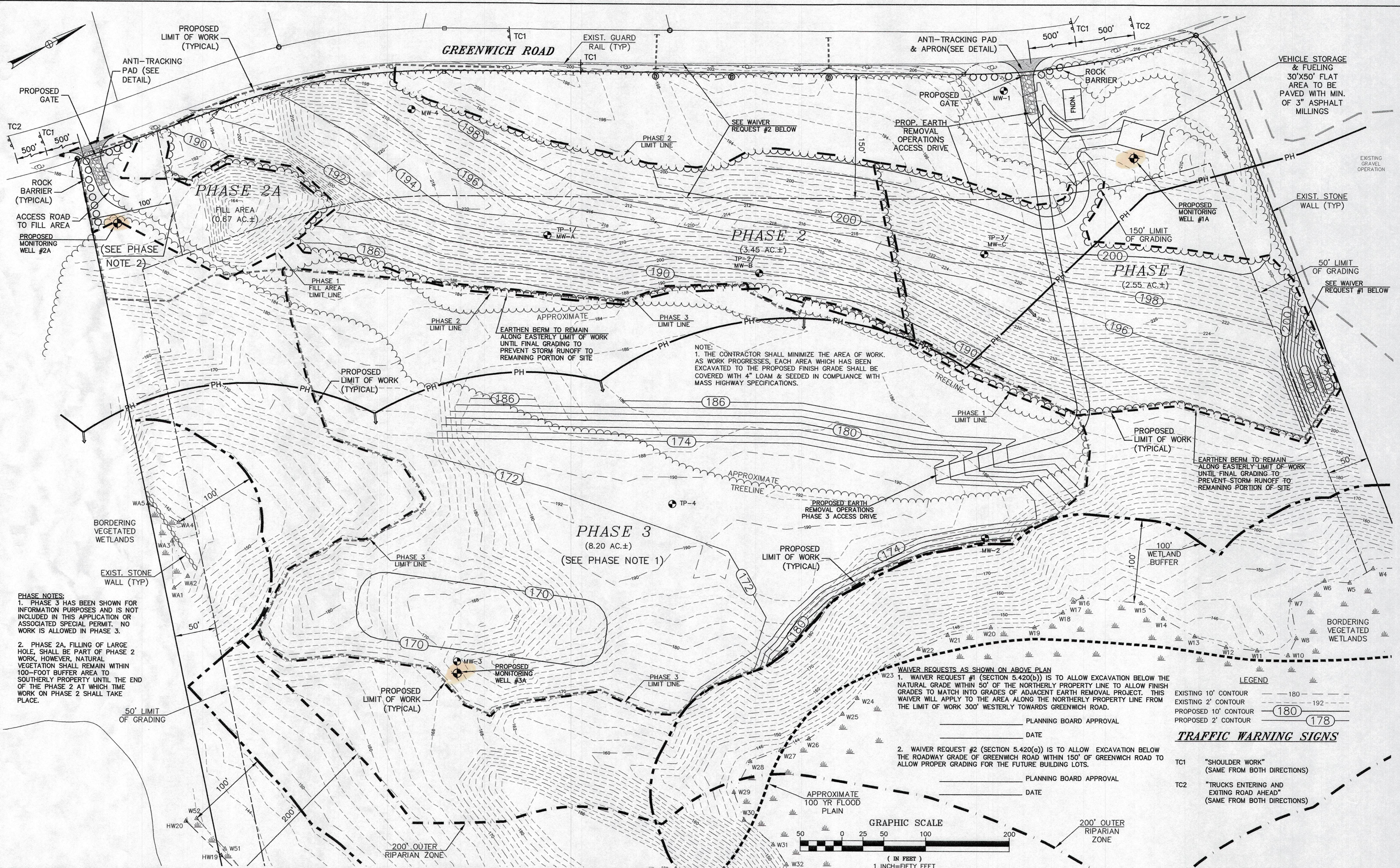


SCALE:
 HORZ: 1"=60'
 VERT: N/A
 DATE: 4/16/08

**PROPOSED LOT DIVISION &
 SITE GRADING PLAN**

**F.T. SMITH TRUCKING &
 EXCAVATING, INC.**
EARTH REMOVAL PERMIT PLAN
 GREENWICH ROAD, WARE, MA

PROJECT NUMBER
 06131
 SHEET NUMBER
2 OF 5



NOTE:
1. THE CONTRACTOR SHALL MINIMIZE THE AREA OF WORK. AS WORK PROGRESSES, EACH AREA WHICH HAS BEEN EXCAVATED TO THE PROPOSED FINISH GRADE SHALL BE COVERED WITH 4" LOAM & SEEDING IN COMPLIANCE WITH MASS HIGHWAY SPECIFICATIONS.

PHASE NOTES:
1. PHASE 3 HAS BEEN SHOWN FOR INFORMATION PURPOSES AND IS NOT INCLUDED IN THIS APPLICATION OR ASSOCIATED SPECIAL PERMIT. NO WORK IS ALLOWED IN PHASE 3.
2. PHASE 2A, FILLING OF LARGE HOLE, SHALL BE PART OF PHASE 2 WORK, HOWEVER, NATURAL VEGETATION SHALL REMAIN WITHIN 100-FOOT BUFFER AREA TO SOUTHERLY PROPERTY UNTIL THE END OF THE PHASE 2 AT WHICH TIME WORK ON PHASE 2 SHALL TAKE PLACE.

WAIVER REQUESTS AS SHOWN ON ABOVE PLAN
1. WAIVER REQUEST #1 (SECTION 5.420(b)) IS TO ALLOW EXCAVATION BELOW THE NATURAL GRADE WITHIN 50' OF THE NORTHERLY PROPERTY LINE TO ALLOW FINISH GRADES TO MATCH INTO GRADES OF ADJACENT EARTH REMOVAL PROJECT. THIS WAIVER WILL APPLY TO THE AREA ALONG THE NORTHERLY PROPERTY LINE FROM THE LIMIT OF WORK 300' WESTERLY TOWARDS GREENWICH ROAD.

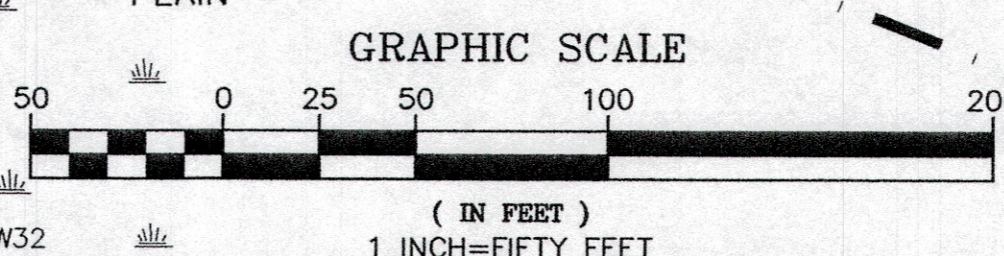
2. WAIVER REQUEST #2 (SECTION 5.420(c)) IS TO ALLOW EXCAVATION BELOW THE ROADWAY GRADE OF GREENWICH ROAD WITHIN 150' OF GREENWICH ROAD TO ALLOW PROPER GRADING FOR THE FUTURE BUILDING LOTS.

LEGEND

EXISTING 10' CONTOUR	---	180
EXISTING 2' CONTOUR	---	192
PROPOSED 10' CONTOUR	---	180
PROPOSED 2' CONTOUR	---	178

TRAFFIC WARNING SIGNS

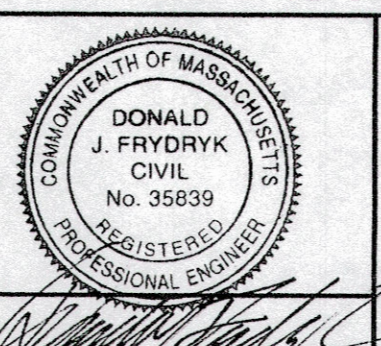
- TC1 "SHOULDER WORK" (SAME FROM BOTH DIRECTIONS)
- TC2 "TRUCKS ENTERING AND EXITING ROAD AHEAD" (SAME FROM BOTH DIRECTIONS)



NO.	DATE	BY	REVISIONS
1	7/22/08	GPH	SWITCH PHASES, REGRADE
2	11/17/08	KTT	REVISED GRADING SCHEME & LIMIT OF EARTH REMOVAL
3	4/8/09	KTT	ADD PHASE 3 EARTH REMOVAL
4	5/20/09	KTT	VEHICLE FUELING AREA
5	7/14/09	DJF	FINAL APPROVAL - BERM NOTE, PHASE 3 NOTE, FUEL PAD, APRON, PHASE 2A & WAIVER REQUESTS

SHERMAN & FRYDRYK
Land Surveying and Engineering
3 Converse Street, Suite 203
Palmer, MA 01069

DESIGN: GPH
DRAFTING: GPH
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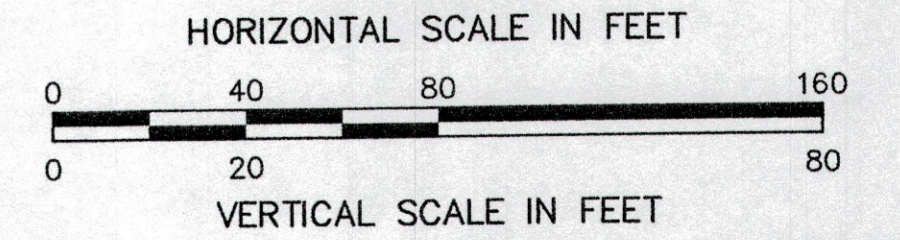
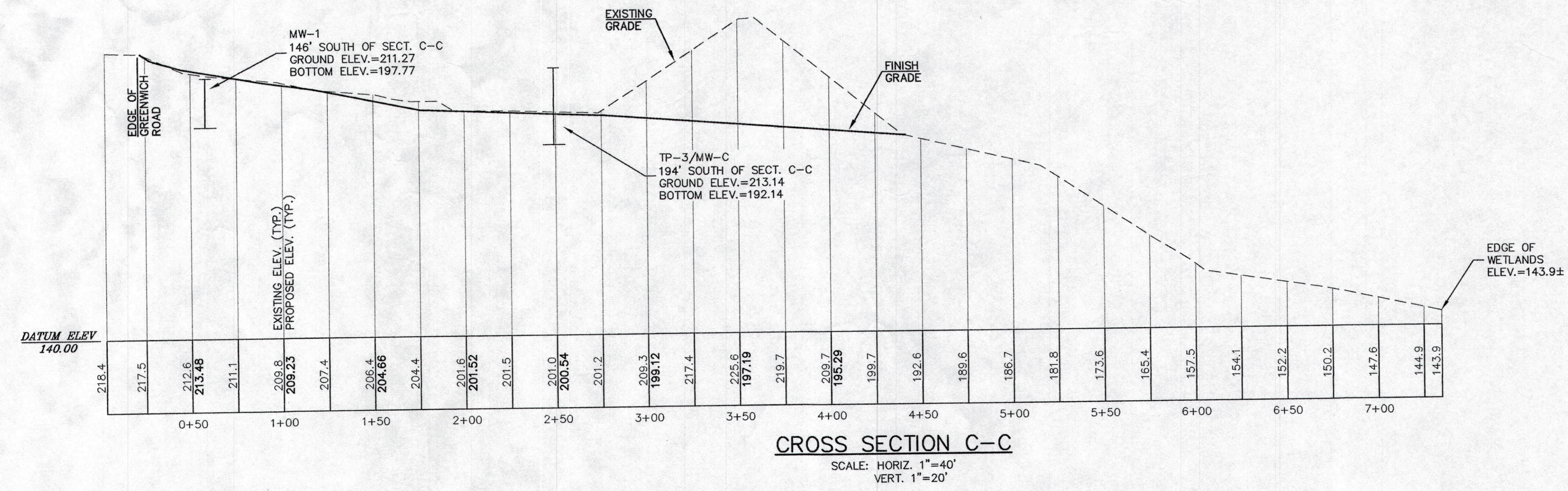
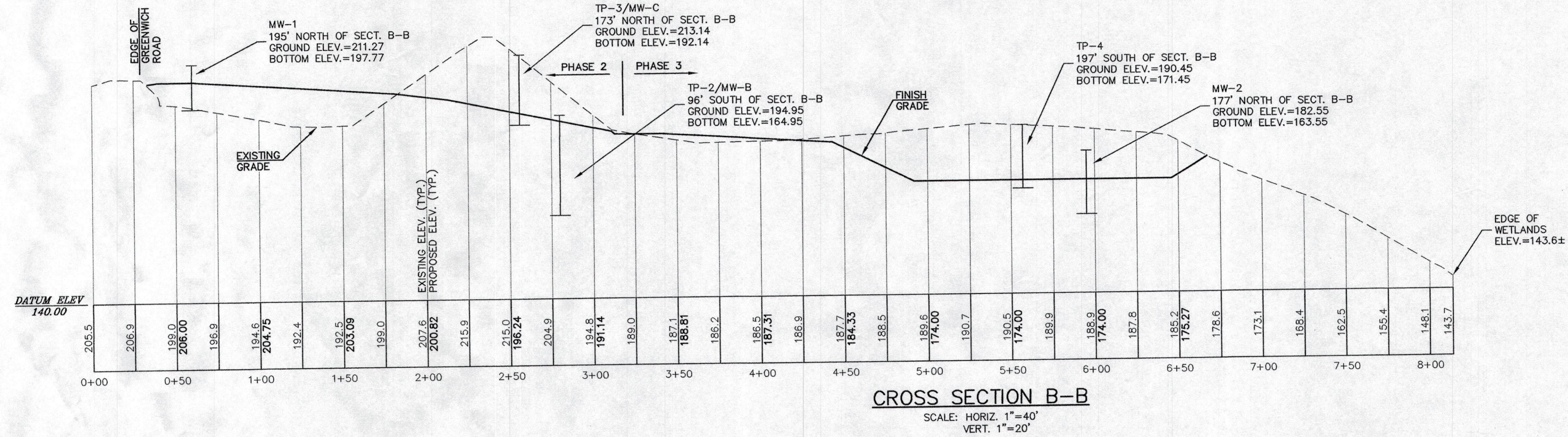
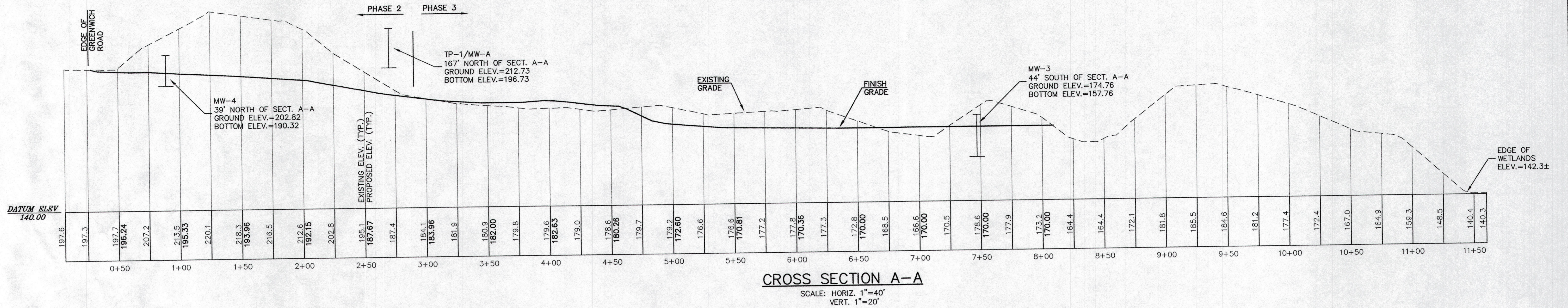


SCALE:
HORZ: 1"=50'
VERT: N/A
DATE: 4/16/08

PHASE 1, 2 & 3
GRADING PLAN

F.T. SMITH TRUCKING & EXCAVATING, INC.
EARTH REMOVAL PERMIT PLAN
GREENWICH ROAD, WARE, MA

PROJECT NUMBER
06131
SHEET NUMBER
3 OF 5



NO.	DATE	BY	REVISIONS
1	8/26/08	GPH	BASED ON NEW GRADING
2	11/17/08	KTT	REVISED GRADING SCHEME & LIMIT OF EARTH REMOVAL
3	4/8/09	KTT	ADD PHASE 3 EARTH REMOVAL
4	4/15/09	KTT	EXTEND CROSS SECTIONS & ADD TP/MW
5	7/14/09	DJF	FINAL APPROVAL

SHERMAN & FRYDRYK
Land Surveying and Engineering
3 Converse Street, Suite 203
Palmer, MA 01069

DESIGN: GPH
DRAFTING: GPH
CHECKED: DJF
APPROVED: DJF

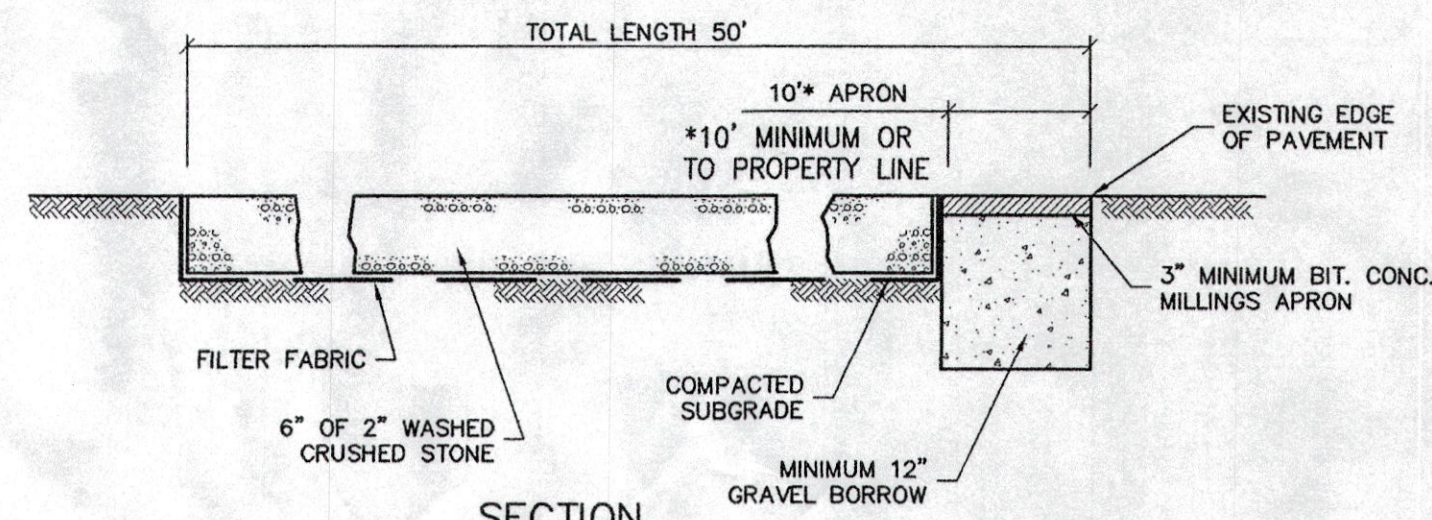
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VERT: 1"=20'
DATE: 7/22/08

CROSS SECTIONS

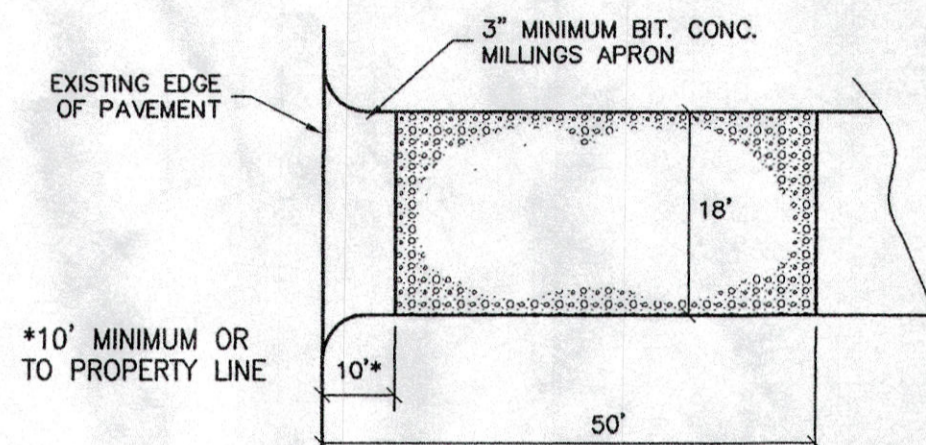
F.T. SMITH TRUCKING &
EXCAVATING, INC.
EARTH REMOVAL PERMIT PLAN
GREENWICH ROAD, WARE, MA

PROJECT NUMBER
06131

SHEET NUMBER
4 OF 5



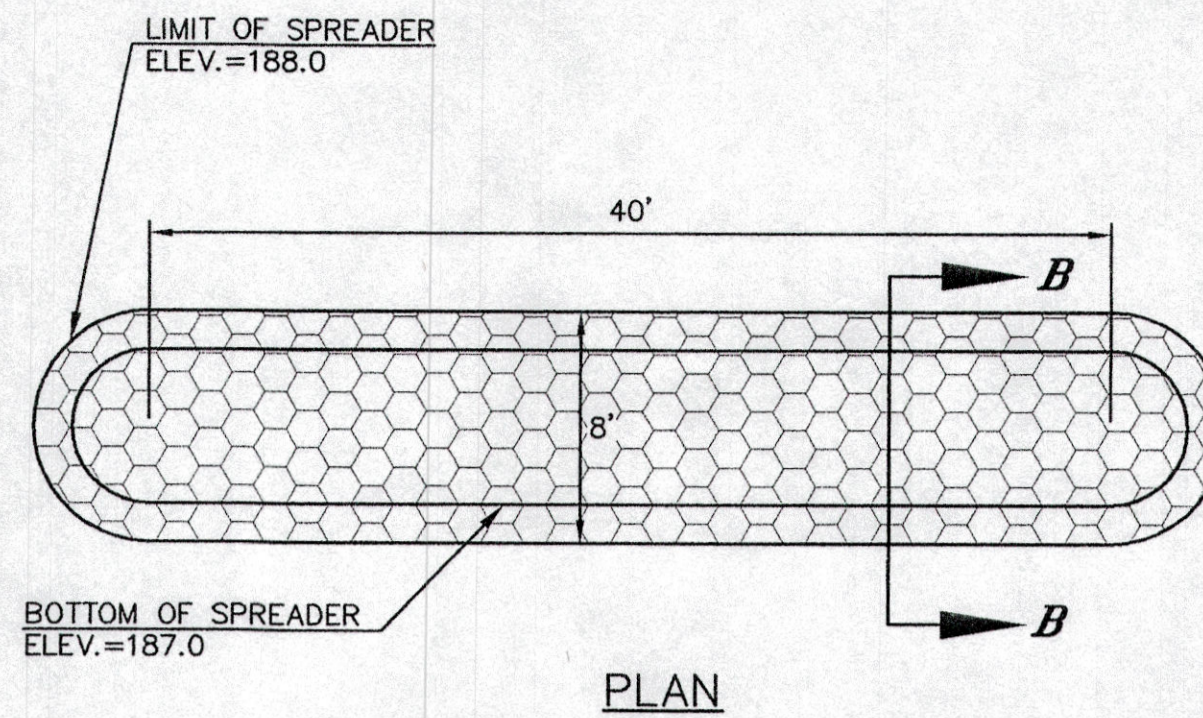
SECTION



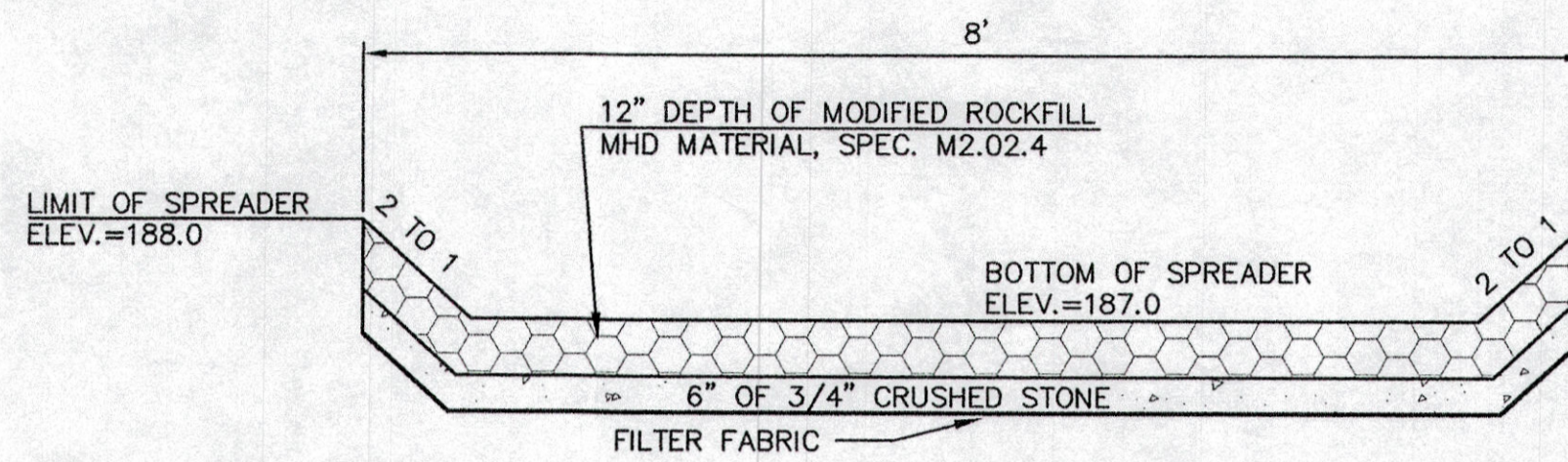
LOCATION PLAN

NOTES:
MAINTAIN ANTI-TRACKING PAVEMENT IN GOOD CONDITION THROUGHOUT CONSTRUCTION PERIOD.

ANTI-TRACKING PAD
N.T.S.

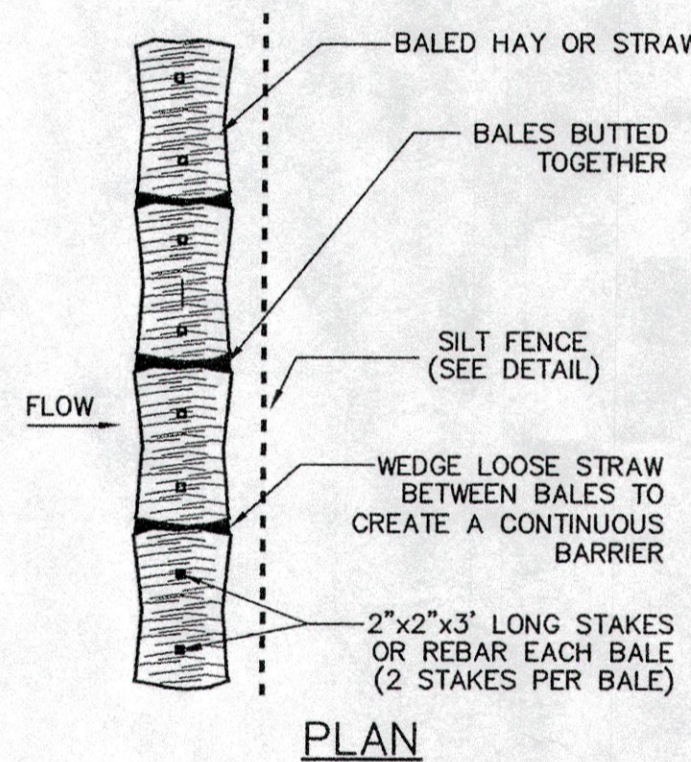


PLAN

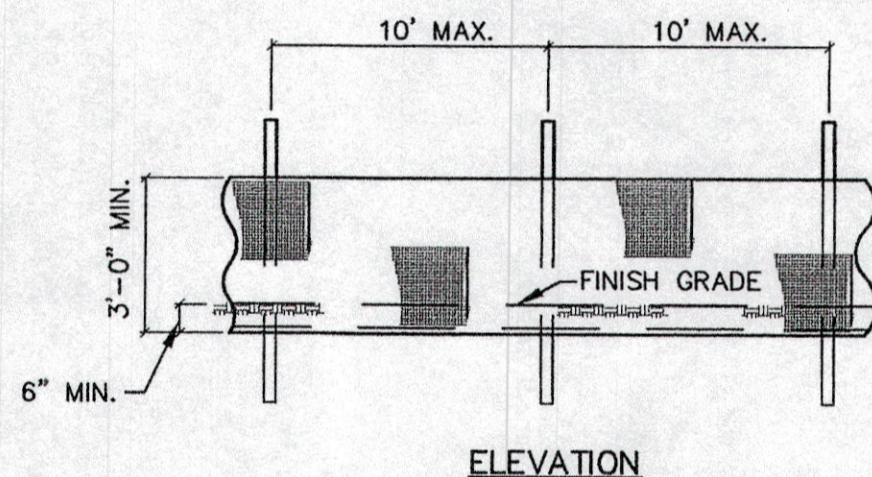


SECTION B-B

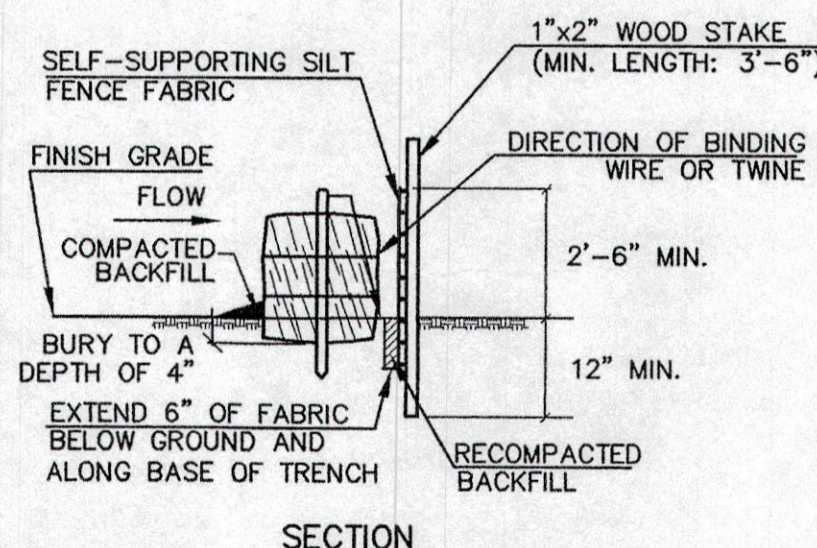
RIPRAP SPREADER DETAIL
N.T.S.



PLAN



ELEVATION



SECTION

EROSION CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
2. ALL EROSION CONTROL MEASURES AREA TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
3. STOCKPILES OF SOIL SHALL BE SURROUNDED BY HAYBALES AND/OR SILT FENCE.
4. ALL DISTURBED AREAS SHALL BE GRADED AND COVERED WITH 4" OF LOAM AND SEEDED. SLOPES GREATER THAN 4:1 SHALL BE MULCHED.

SILT FENCE DETAIL
N.T.S.

EROSION CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION. STANDING POOLS OF WATER BEYOND THE 24-HOUR PERIOD AFTER A STORM AT EROSION CONTROLS SHALL REQUIRE RESTORATION TO NORMAL FUNCTION.
2. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY, REGARDLESS IF WORK IS PROCEEDING ON THE SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS DEEMED NECESSARY BY ON SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
4. TEMPORARY SEDIMENT BASINS SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND ARE SUBJECT TO CHANGE AS SITE CONDITIONS WARRANT AND AS CONSTRUCTION PROGRESSES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
6. GRADE DURING FILL OPERATIONS SHALL NOT ALLOW RUNOFF DOWN SIDE SLOPES. AS FILL IS ELEVATED, GRADE TO DRAIN TO TEMPORARY SEDIMENT BASINS.
7. SILT FENCES SHALL BE INSPECTED PRIOR TO AND AFTER EVERY STORM.
8. STOCKPILES OF SOIL, SHALL BE SURROUNDED BY HAYBALES AND/OR SILT FENCE.
9. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION THAT WILL NOT BE PAVED SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL AND SEED APPLIED AND MULCHED. THESE AREAS SHALL BE MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1 OR STEEPER.
10. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CLEAN ALL STORM DRAINAGE STRUCTURES, PIPES, CULVERTS, ETC.
11. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL AREAS HAVE BEEN STABILIZED AND SHALL NOT BE REMOVED UNTIL THE REMOVAL IS APPROVED BY THE WARE CONSERVATION COMMISSION.
12. IN ORDER TO AVOID TRACKING OF SOIL OFF SITE, THE CONTRACTOR SHALL MAINTAIN PAVEMENT OVER ALL AREAS TO THE EXTENT POSSIBLE. IF CONSTRUCTION VEHICLES ARE TO PASS OVER UNPAVED AREAS PRIOR TO LEAVING THE SITE, THE CONTRACTOR SHALL INSTALL AN ANTI-TRACKING PAD ALONG THE ACCESS ROAD, PRIOR TO REMAINING PAVED AREAS. ALL VEHICLES LEAVING THE SITE SHALL PASS OVER THE ANTI-TRACKING PAD PRIOR TO LEAVING THE SITE. THE CONTRACTOR SHALL MECHANICALLY SWEEP THE SITE AS NEEDED TO PREVENT TRACKING OF EARTH MATERIAL.

NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE 1989 MASS. HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS & BRIDGES AND THE 1994 SUPPLEMENTAL SPECIFICATIONS, AND THE 1977 CONSTRUCTION STANDARDS.
2. ALL DISTURBED AREAS SHALL BE COVERED WITH A MINIMUM OF 4" OF PLANTABLE SOIL BORROW AND SEEDED.
3. LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY, PLANS OF RECORD, AND OTHER AVAILABLE SOURCES. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATIONS OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME WITHIN THE PREMISES SURVEYED.
4. THE CONTRACTOR SHOULD VERIFY THE EXISTING CONDITIONS TO HIS SATISFACTION PRIOR TO BEGINNING ANY EXCAVATION. "DIG SAFE" SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK.
5. ALL SLOPES INDICATED FOR PROPOSED PIPES ARE FT/FT.

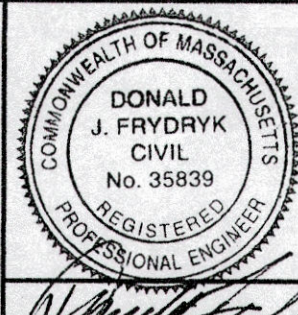
STRUCTURE NOTES

- FOR CATCH BASINS, MANHOLES, CULVERT ENDS, END WALLS SEDIMENTATION CHAMBERS, AND PIPES.
1. STRUCTURES SHALL BE PLACED ON EXISTING SUITABLE COMPACTED MATERIAL OR 12 IN. GRAVEL BASE TO 6 IN. MINIMUM OUTSIDE BASE.
 2. 3 IN. MAXIMUM CORBEL PER CONCRETE BLOCK UNIT.
 3. JOINTS TO BE POINTED FLUSH AND FULL.
 4. PIPES TO CUT FLUSH WITH INSIDE WALL OF STRUCTURE.
 5. ALL STRUCTURES AND PIPES SHALL BE CAPABLE OF SUPPORTING AN H-20 LOADING.
 6. FRAMES AND COVERS SHALL BE LeBARON FOUNDRY COMPANY CATALOG NO. LB-268-3 OR EQUIVALENT AND MARKED WITH 3" LETTERS AS "DRAIN".
 7. FRAMES AND GRATES SHALL BE LeBARON FOUNDRY COMPANY CATALOG NO. LRF-248-2 OR EQUIVALENT.
 8. DRAINAGE PIPE SHALL BE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, N-12 PIPE OR EQUIVALENT.
 9. ALL MATERIALS AND METHODS OF CONSTRUCTION ASSOCIATED WITH INSTALLATION OF PROPOSED DRAIN CONNECTION SHALL CONFORM TO THE SPECIFICATIONS OF THE WARE DEPARTMENT OF PUBLIC WORKS.

NO.	DATE	BY	REVISIONS
1	7/22/08	GPH	ADD TURTLE BARRIER DETAIL
2	11/17/08	KTT	REVISED GRADING SCHEME & LIMIT OF EARTH REMOVAL
3	4/8/09	KTT	ADD PHASE 3 EARTH REMOVAL
4	7/14/09	DJF	FINAL APPROVAL - BIT. CONC. MILLINGS APRON

SHERMAN & FRYDRYK
Land Surveying and Engineering
3 Converse Street, Suite 203
Palmer, MA 01069

DESIGN: GPH
DRAFTING: GPH
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APPROVED: DJF



SCALE:
HORZ: N/A
VERT: N/A
DATE: 4/16/08

DETAILS

F.T. SMITH TRUCKING & EXCAVATING, INC.
EARTH REMOVAL PERMIT PLAN
GREENWICH ROAD, WARE, MA

PROJECT NUMBER
06131
SHEET NUMBER
5 OF 5