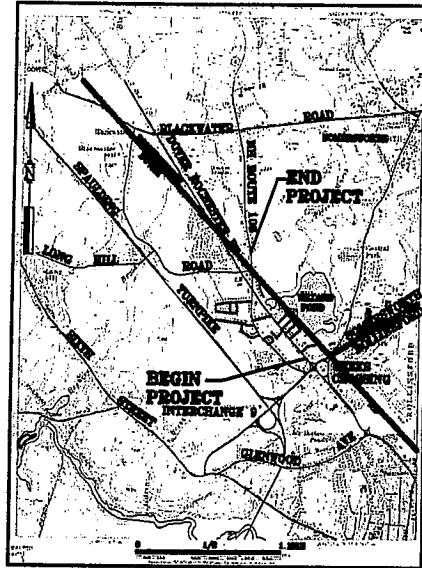
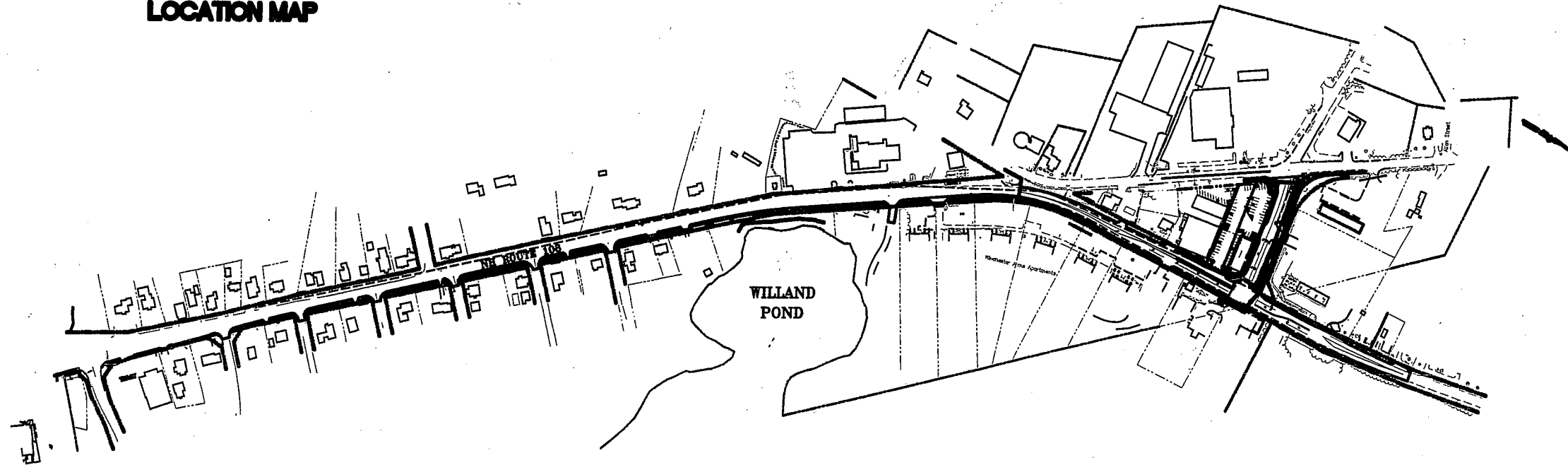
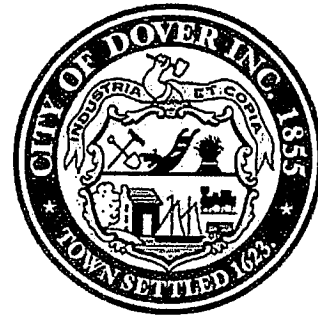


NEW ROCHESTER ROAD/ LONG HILL ROAD IMPROVEMENTS

NEW ROCHESTER ROAD AND LONG HILL ROAD
DOVER, NEW HAMPSHIRE



LOCATION MAP



PLAN



NO.	DATE	REVISION	CHECKED:	APPROVED:
	DWP		MF	MF
DESIGNED: MF				

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CITY OF DOVER
CITY HALL
DOVER, NH 03801

COVER SHEET
STATE PROJ. NO. 284/7000
FED. PROJ. NO. SP-25-3-00020
FED. PROJ. NO. SP-3-00020
NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE: -	JOB NO. 000172
DATE: DEC 2007	DWG. 1

INDEX OF SHEETS

SHEET NO.	DRAWING	DESCRIPTION
1		COVER SHEET
2		INDEX OF SHEETS & GENERAL NOTES
3-4		STANDARD SYMBOLS
5-7		SUMMARY OF QUANTITIES
8-9		TYPICAL SECTIONS OF IMPROVEMENT
10		DRAINAGE NOTES
11-20		GENERAL PLANS AND PROFILES
21-25		CURBING AND PAVEMENT LAYOUT PLAN
26-30		SIGNING AND PAVEMENT MARKING PLAN
31-32		SIGNAL PLANS
33		EROSION CONTROL DETAILS
34-37		DRAINAGE DETAILS
38		SIGN TEXT LAYOUT
39		MISCELLANEOUS DETAILS
40		NOT NEEDED
41-51		CROSS SECTIONS

GENERAL NOTES

- FOR STANDARD PLANS, SEE "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" DATED 2001 (A BOUND BOOK).
- HIGH TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED THROUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS AND RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN ON REGULAR POLES. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT, ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
- REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE SLOPE LINES. UNLESS OTHERWISE DIRECTED, STOCKPILE TOPSOIL AND USE IT ON THIS PROJECT AS NEEDED UNDER SECTION 641 - LOAM AND/OR SECTION 647 - HUMUS.
- NOT APPLICABLE
- NOT APPLICABLE
- EXISTING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND DETERMINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL BE RESET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS MARKERS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF THE CONTRACT.
- NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.
- REMOVE UNPROTECTED PROJECT MARKERS (SUBSIDIARY).
- SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY NHDOT AND CLD CONSULTING ENGINEERS. COORDINATES ARE NEW HAMPSHIRE STATE PLANE COORDINATES OF N.A.D. 1983 AND THE BEARINGS ARE GRID. ELEVATIONS ARE REFERENCED TO N.G.V.D. 1929.

CONSTRUCTION NOTES

- CONTRACTOR SHALL BE ADVISED OF SOIL CONDITIONS AS NOTED IN GEOTECHNICAL REPORT IN CONTRACT DOCUMENTS. TRENCH SHORING IS RECOMMENDED FOR DRAINAGE INSTALLATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND SUPPORT EXISTING UTILITY POLES AND BURIED UTILITIES ADJACENT TO EXCAVATION OPERATIONS.
- TEST PITS AS SHOWN ON PLANS OR ORDERED (IN WRITING) SHALL BE PAID UNDER CONTRACT ITEM "TEST PITS". ADDITIONAL EXCAVATION REQUIRED ADJACENT TO ACTIVE EXCAVATION OPERATIONS TO UNCOVER UTILITIES SHALL NOT BE ELIGIBLE FOR PAYMENT AS A TEST PIT AND SHALL BE SUBSIDIARY. PRIOR TO ORDERING OF DRAINAGE STRUCTURES, TEST PITS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS (AS A MINIMUM) TO DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES AND POTENTIAL CONFLICTS WITH THE PROPOSED WORK (MULTIPLE PITS AT EACH LOCATION MAY BE REQUIRED TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES):
 AUBURN STREET INTERSECTION
 SHERMAN STREET INTERSECTION
 LAKE STREET INTERSECTION
 GAGE STREET INTERSECTION
 EARLE STREET INTERSECTION
 STA. 132+25 RT. 2+75 (G ± - GAS MAIN)
 STA. 133+25 RT. 4+50 (G ± - GAS MAIN)
 STA. 134+25 RT. STA. 45+90, RT. -EXISTING CB
 STA. 35+15 RT.
 STA. 35+55 RT.
 STA. 35+80 RT.
 STA. 36+80 RT.
 STA. 37+80 RT.
 STA. 38+50 RT.
 STA. 39+50 RT.
 STA. 40+00 RT.
 TEST PITS SHALL BE COMPLETED AND DEPTHS PROVIDED TO ENGINEER. UPON REVIEW OF UTILITIES AND ADJUSTMENTS TO DRAINAGE TO ADDRESS CONFLICTS, ENGINEER WILL ISSUE APPROVALS TO ORDER STRUCTURES. ANY PRIOR ORDERING/DELIVERY OF STRUCTURES SHALL BE AT THE CONTRACTOR'S RISK. SPOT RELOCATION OF WATER MAINS MAY BE REQUIRED TO ACCOMPLISH DRAINAGE INSTALLATION, IF ORDERED BY THE ENGINEER. SEE SPECIAL PROVISION 611 AND MISCELLANEOUS DETAILS SHEET 39.
- ITEM 603.00312, 12" RCP, 3000D MAY BE USED FOR POTENTIAL DRAINAGE CROSSING AT AUBURN STREET OR OTHER LOCATIONS IF REQUIRED DUE TO UTILITY CONFLICTS AND COVER REQUIREMENTS, AS DIRECTED BY THE ENGINEER. ITEM 604.4, RECONSTRUCT EXISTING CATCH BASIN AND DROP INLET WILL INCLUDE CORING A NEW PIPE INVERT INTO THE EXISTING STRUCTURE ON THE SOUTH SIDE OF AUBURN STREET, IF DIRECTED BY THE ENGINEER.
- PROPOSED MEDIAN, STA. 44+00 TO 45+84, SHALL BE CONSTRUCTED ON EXISTING CONCRETE ROADWAY SLAB AND/OR PAVEMENT. CURBING SHALL BE INSTALLED AS SHOWN ON TYPICAL SECTION, SHEET 8 AND PAID FOR UNDER ITEMS 609.311 STRAIGHT GRANITE CURB (BRIDGE), MODIFIED AND ITEM 609.351 CURVED GRANITE CURB (BRIDGE), MODIFIED. MEDIAN CONCRETE SHALL BE PAID UNDER ITEM 608.26 6" CONCRETE SIDEWALK, REGARDLESS OF ACTUAL DEPTH.
- BASE BID FOR PROJECT SHALL INCLUDE ITEM 608.125 2½" (2 LIFTS) BITUMINOUS SIDEWALKS, WITH 4" CONCRETE SIDEWALKS (ITEM 608.24) AND ITEM 608.52 DETECTABLE WARNING PANELS AT ADA STREET/COMMERCIAL DRIVEWAY CROSSINGS (SEE DETAILS, SHEET 9). ALTERNATE BID SHALL INCLUDE ALL SIDEWALKS AS 4" CONCRETE, ITEM 608.24, (REMOVE ITEM 608.125) WITH ITEM 608.52 AT ADA STREET/COMMERCIAL DRIVEWAY CROSSINGS.
- RECONSTRUCTION OF PRIVATE WALKWAYS AS SHOWN ON THE PLANS SHALL BE PAID UNDER ITEMS 403.12 HOT BITUMINOUS PAVEMENT (HAND METHOD), 203.1 COMMON EXCAVATION, AND 304.3 CRUSHED GRAVEL.


NHDOT WORK ZONE TRAFFIC CONTROL STANDARD PLANS AND NHDOT STANDARD PLANS ARE INCORPORATED BY REFERENCE.

- TREE TRIMMING AS NOTED ON THE PLANS SHALL BE SUBSIDIARY. TREE REMOVAL SHALL BE PAID UNDER APPROPRIATE CONTRACT ITEMS. CLEARING AND GRUBBING SHALL BE SUBSIDIARY PER NHDOT STANDARD SPECIFICATIONS, SECTION 201.5.1.1.
- CHAIN LINK FENCE ALONG WILLAND POND AND SHELL GAS STATION SHALL CONFORM TO NHDOT STANDARD PLANS, FN-2 AND SHALL BE BLACK VINYL-COATED.
- RECONSTRUCTION OF ADJACENT SIDESTREETS ALONG THE SIDEWALK PROJECT WILL BE REQUIRED FOR DRAINAGE (SEE GENERAL PLANS AND PAVEMENT LAYOUT PLANS FOR LOCATIONS). EXACT LIMITS OF RECONSTRUCTION ARE TO BE DETERMINED IN THE FIELD, SEE DETAILS SHEET 37. REMOVAL OF EXISTING PAVEMENT AND ANY ROUGH GRADING REQUIRED TO ESTABLISH GRADES WILL BE PAID UNDER COMMON EXCAVATION.
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS.
- REMOVAL OF EXISTING TRAFFIC SIGNS SHALL BE SUBSIDIARY PER NHDOT STANDARD SPECIFICATIONS SECTION 115.4.2.2.
- CONTRACTOR SHALL TAKE CARE TO LOCATE EXISTING LOOP DETECTORS AT WILLAND DRIVE PRIOR TO ANY SAWCUTTING OPERATIONS. CONTRACTOR SHALL CONDUCT OPERATIONS TO AVOID ANY DAMAGE TO LOOP DETECTORS. ANY DAMAGED CAUSED AS A RESULT OF CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED PER THE DIRECTION OF THE ENGINEER AT CONTRACTOR'S SOLE COST.
- CITY OF DOVER HAS SECURED EASEMENTS FOR THE PROJECT. SEE EASEMENT EXHIBITS IN THE CONTRACT DOCUMENTS FOR LIMITS OF EASEMENTS.
- QUALITY CONTROL TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE, SUBSIDIARY TO RELATED CONTRACT ITEMS. SEE GENERAL CONDITIONS SECTION F, PAGE 00300-04 AND TECHNICAL REQUIREMENTS, SECTION 01400.
- DUE TO DIFFICULTY SECURING EASEMENTS, SIDEWALK CONSTRUCTION FROM STA. 111+34± TO 112+14± IS REMOVED FROM THE BASE CONTRACT BID. IT IS INCLUDED AS BID ALTERNATIVE #3 IN THE CONTRACT DOCUMENTS WHICH MAY BE ADDED TO THE CONTRACT PENDING NEGOTIATIONS.
- SUBSEQUENT TO PROJECT DESIGN AND PRIOR TO ADVERTISING, THE EXISTING GAS MAIN AS DEPICTED ON THE PLANS WAS ABANDONED FROM APPROXIMATELY STA. 16+50± TO STA. 35+50±. A NEW MAIN (NOT SHOWN) WAS PLACED ON THE WEST SIDE OF NEW ROCHESTER ROAD ALONG THE SHOULDER.

THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:

1	2	3	4	5	6	7	8	9	10	11	12
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NO.		DATE	REVISION	APPROVED:
DRAWN:		DATE	DESIGNED:	CHECKED:
			DATE	
			DATE	

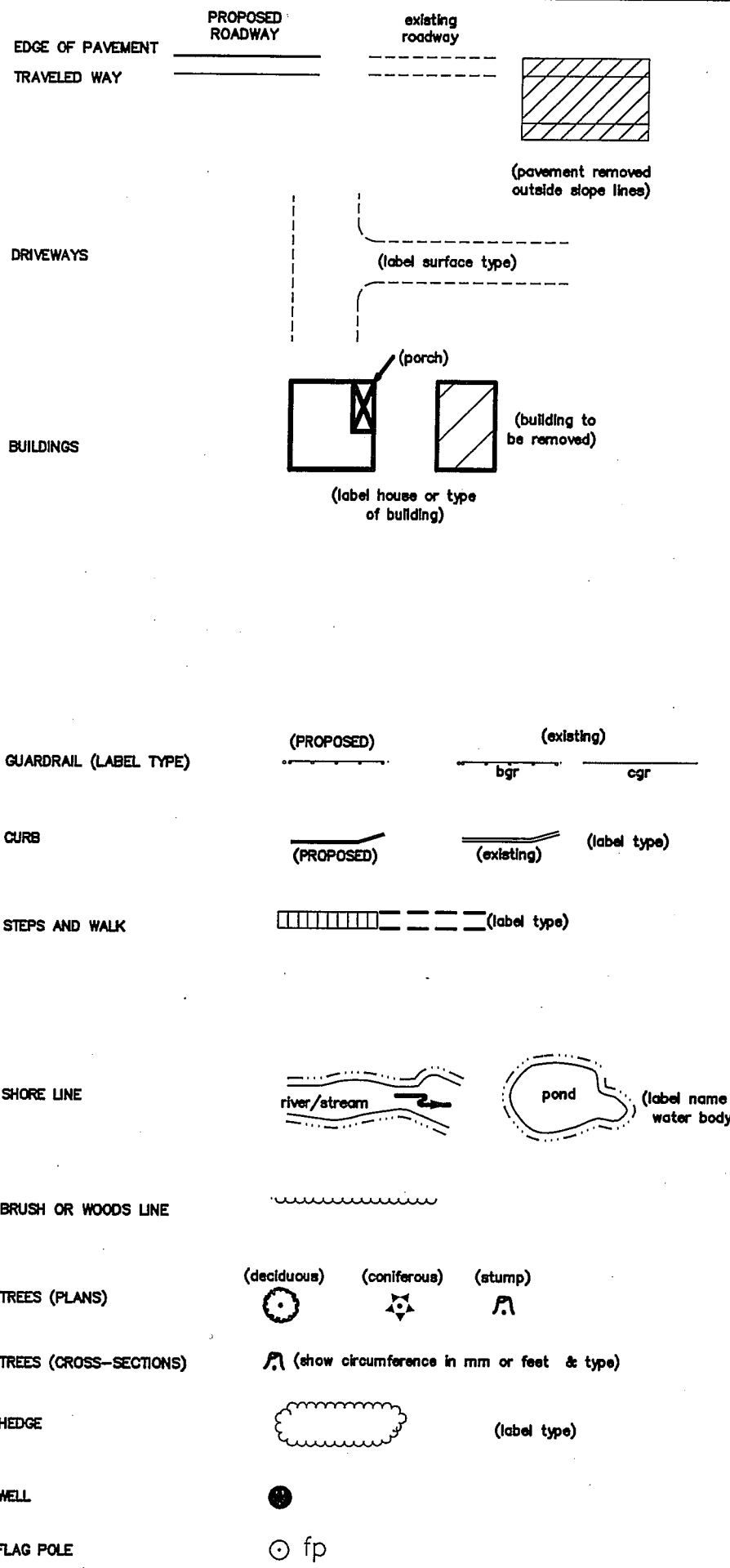


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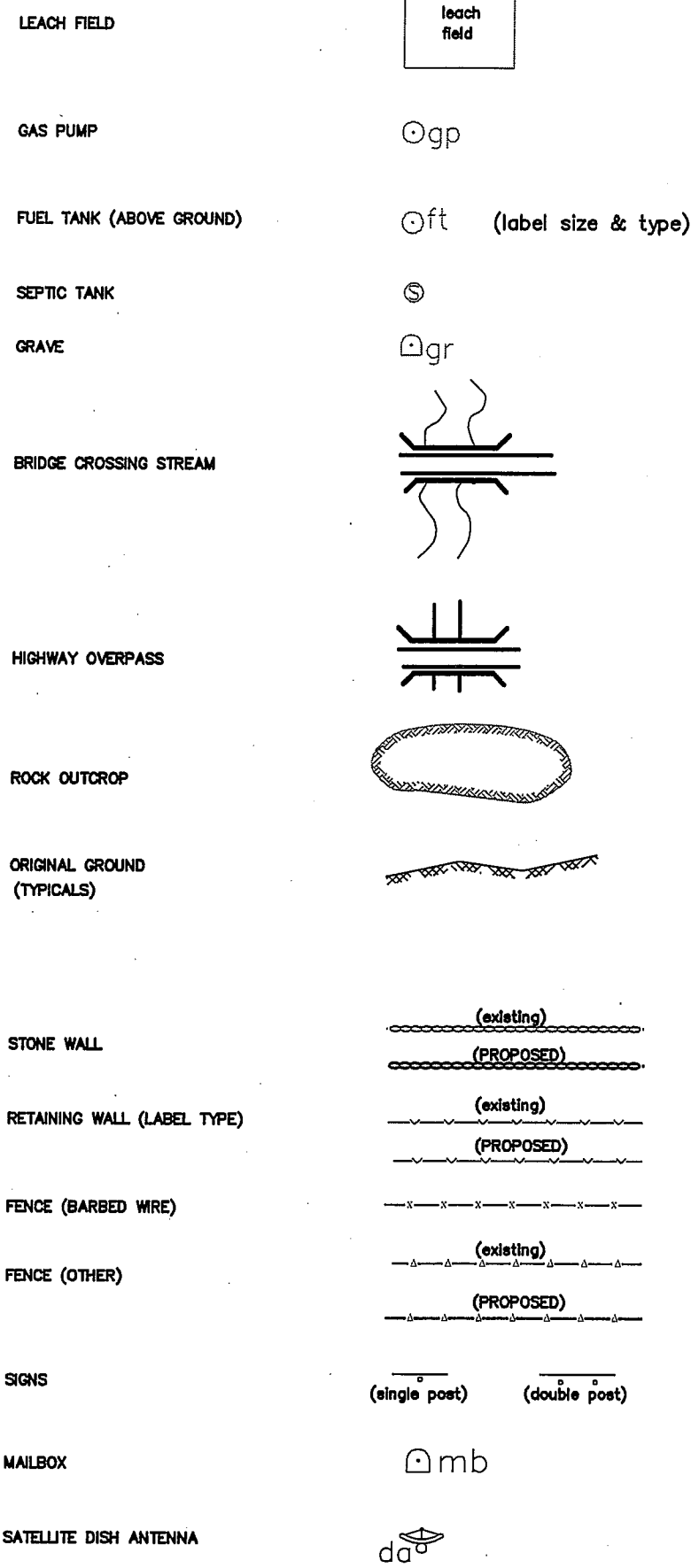
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

GENERAL NOTES
 STATE PROJ. NO. 1844/2009
 FEDERAL PROJ. NO. SP-2-02(009)
 FEDERAL PROJ. NO. SP-1-000(009)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

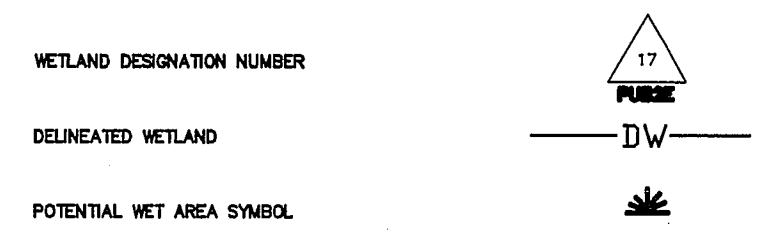
SCALE:	JOB NO.
AS NOTED	090172
DATE:	DWG.
DEC 2007	2



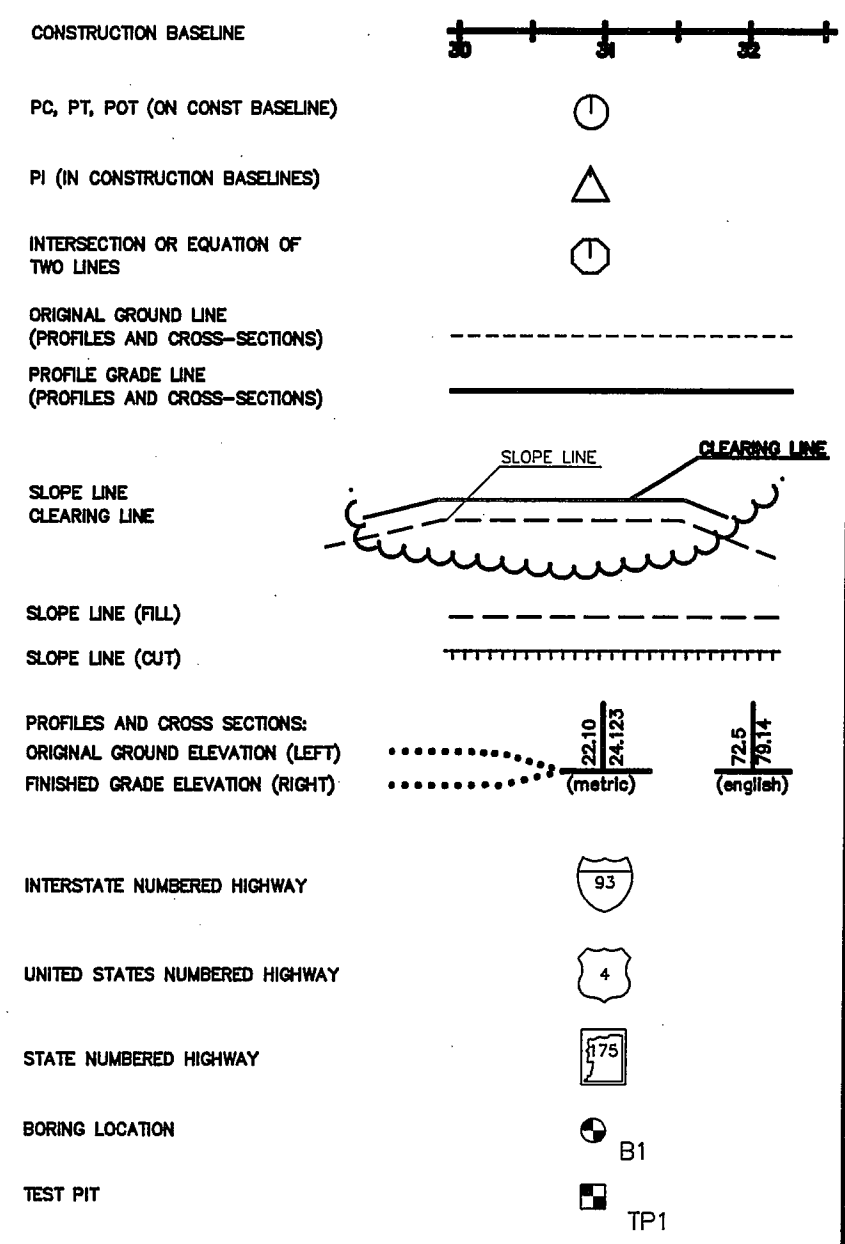
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WETLANDS

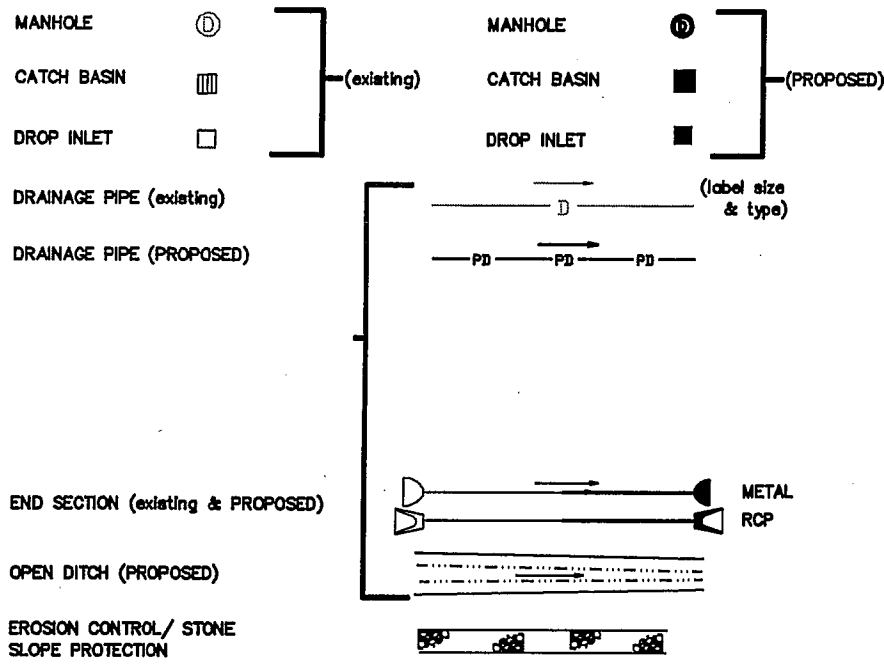


ENGINEERING

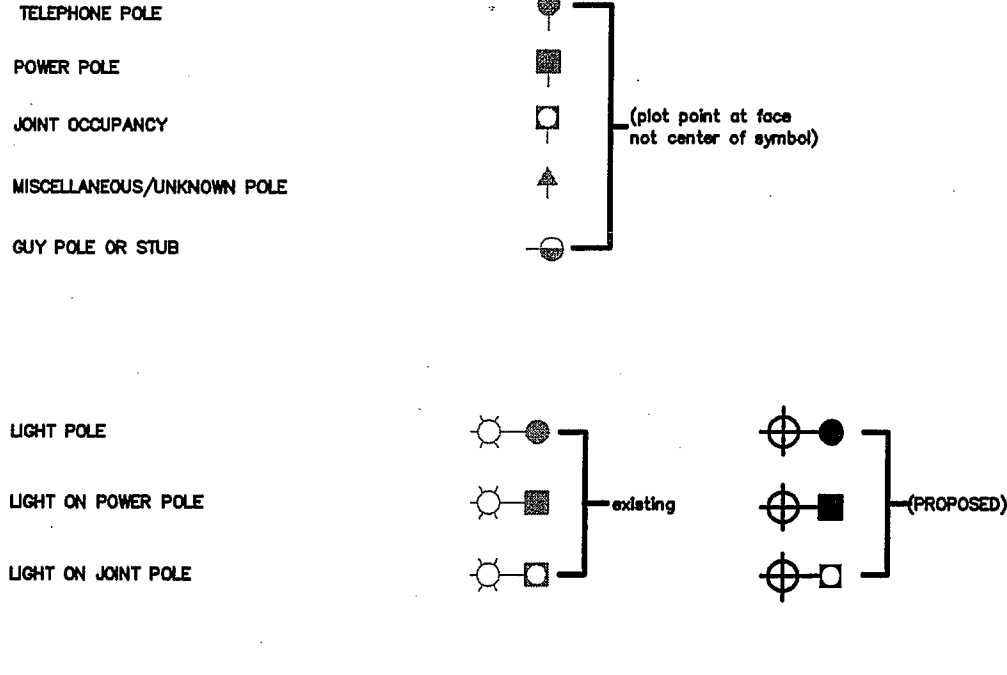


NO.	DATE	REVISION	CHECKED:	APPROVED:
			DAB/DAO	JF
<p>CONSULTING ENGINEERS Inc. Park Place Corporate Center 316 US Route 1, Suite D, York, ME 03909 (207) 363-0669 • Fax: (207) 363-2384 cid@cidengineers.com • www.cidengineers.com Member of the International Brotherhood of Engineers</p>				
<p>CITY OF DOVER CITY HALL DOVER, NH 03820</p>				
<p>STANDARD SYMBOLS STATE PROJ. NO. 12044/12003 FED. PROJ. NO. 51P-1E-3-0122(010) FED. PROJ. NO. 51P-3-0005(202) NEW ROCHESTER RD / LONG HILL RD DOVER, NEW HAMPSHIRE</p>				
SCALE:	JOB NO.			
NONE	020172			
DATE:	DWG.			
JULY 2007	3			

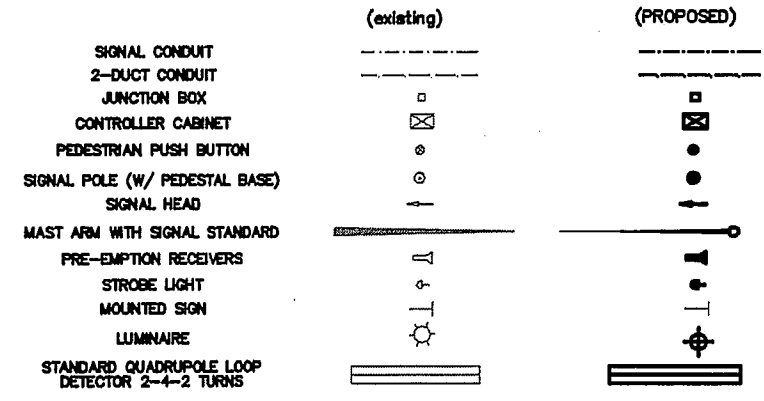
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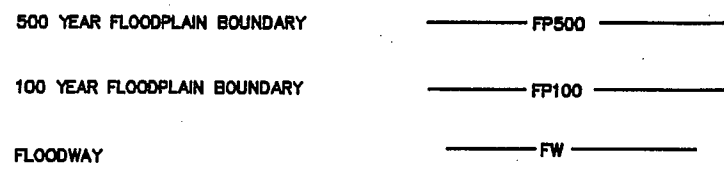
UTILITIES



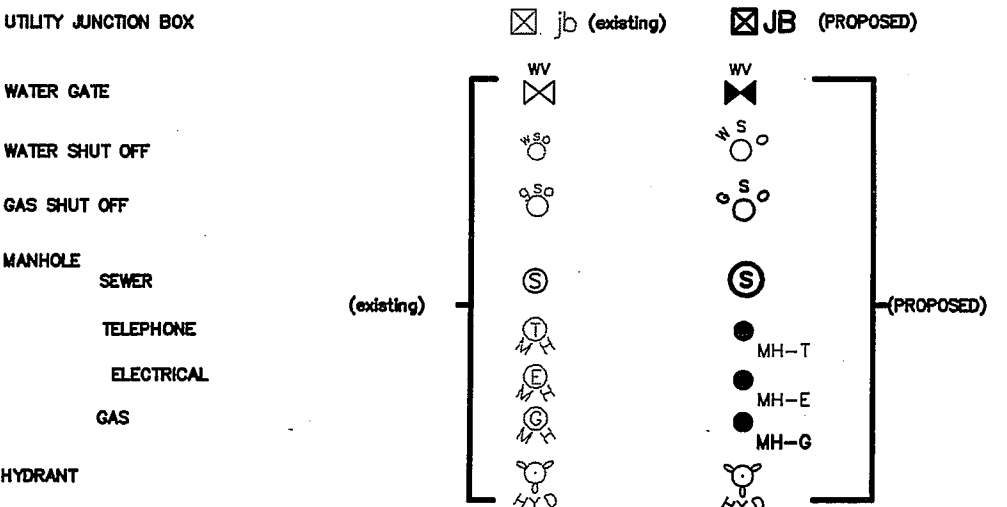
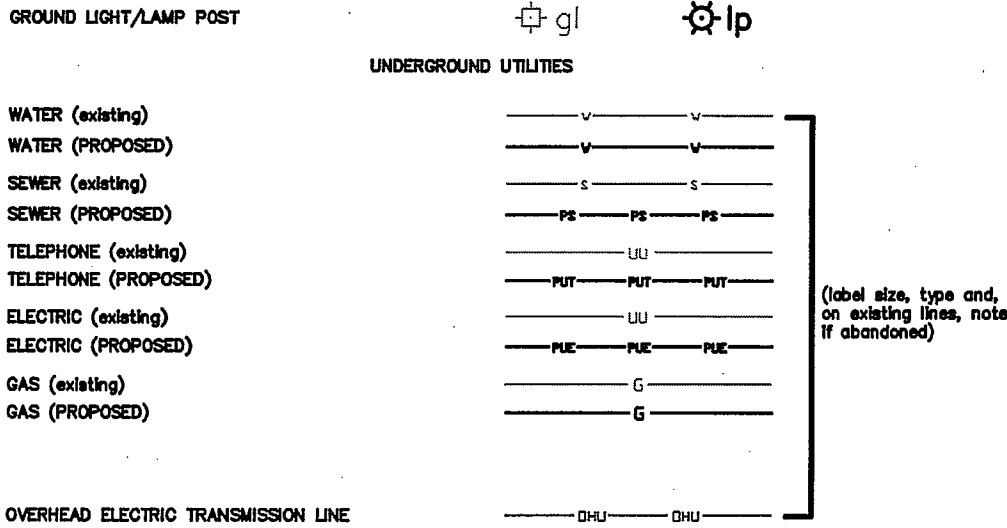
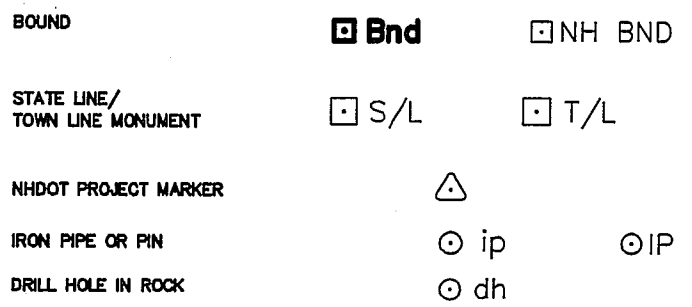
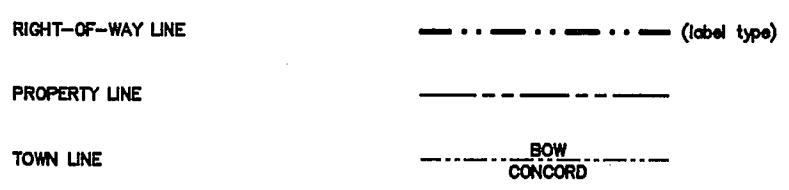
TRAFFIC SIGNALS



FLOODPLAIN / FLOODWAY



BOUNDARIES / RIGHT-OF-WAY



NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/HLO	JF	JF
			DAD		

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CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

STANDARD SYMBOLS

STATE PROJ. NO. 1244/12008
 FED. PROJ. NO. STP-12-X-012(010)
 FED. PROJ. NO. STP-X-0003(202)

**NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE**

SCALE:	JOB NO.
NONE	030172
DATE:	DWG.
JULY 2007	4

CURBING - 1					
ITEM NO.	MARK NUMBER	RADIUS	609.01	609.0124	609.02
ITEM			STRAIGHT GRANITE CURB	STRAIGHT GRANITE CURB (24" HIGH)	CURVED GRANITE CURB
UNIT		LF	LF	LF	LF
LOCATION STATION TO STATION					
110+28.91, RT 24.54 - 110+34.01, RT 19.63	A1	30.83	7.02		
110+44.56, RT 14.27 - 110+88.21, RT 13.00	A2		44.68		
(LEFT INTENTIONALLY BLANK)	A3				
110+44.74, RT 19.77 - 110+88.25, RT 18.51	A4		43.53 BACK		
112+47.12, RT 10.38 - 112+54.12, RT 10.22	A8		7.00		
113+82.79, RT 7.15 - 113+89.86, RT 6.95	A9		7.00		
114+48.54, RT 6.26 - 115+44.57, RT 4.71	A10		95.96		
115+89.42, RT 4.41 - 116+34.73, RT 3.72	A11		65.32		
116+92.82, RT 3.25 - 118+21.35, RT 3.25	A12		128.53		
118+46.13, RT 3.25 - 118+67.66, RT 3.25	A13		21.53		
119+31.85, RT 3.25 - 120+87.31, RT 3.25	A14		155.66		
121+03.59, RT 7.75 - 121+04.43, RT 5.28	A15		2.61		
121+04.43, RT 5.28 - 121+07.27, RT 3.25	A16	3.00			3.73
121+07.27, RT 3.25 - 121+12.48, RT 3.25	A17		5.22		
121+12.48, RT 3.25 - 121+13.91, RT 3.70	A18	2.50			1.51
121+13.91, RT 3.70 - 121+19.76, RT 7.75	A19		7.12		
121+19.76, RT 7.75 - 123+56.56, RT 3.25	A20		181.71		
124+15.67, RT 3.25 - 124+77.00, RT 3.25	A21		61.33		
125+00.48, RT 3.25 - 125+93.23, RT 3.25	A22		92.75		
125+53.56, RT 3.25 - 127+33.31, RT 3.25	A23		79.75		
127+33.30, RT 3.25 - 128+40.83, RT 3.25	A24		67.53		
128+40.83, RT 3.25 - 128+43.52, RT 4.93	A25	3.00			3.35
128+43.52, RT 4.93 - 128+47.34, RT 12.75	A26		8.70		
128+47.34, RT 12.75 - 129+59.22, RT 3.25	A27		84.55		
129+59.22, RT 3.25 - 131+74.95, RT 3.25	A28	1484.00	215.25		
131+74.95, RT 3.25 - 134+59.28, RT 3.25	A29		284.34		
SUBTOTAL =			1667.09		8.59

CURBING - BID ALTERNATIVE #3 (SEE GENERAL NOTE 14, SHEET 2)					
ITEM NO.	MARK NUMBER	RADIUS	609.01	609.0124	609.50
ITEM			STRAIGHT GRANITE CURB	STRAIGHT GRANITE CURB (24" HIGH)	RESET GRANITE CURB
UNIT		LF	LF	LF	LF
LOCATION STATION TO STATION					
111+34.42, RT 12.40 - 112+14.46, RT 11.00	A5				80.05
111+34.54, RT 17.55 - 112+17.58, RT 15.60	A6			83.17	
(LEFT INTENTIONALLY BLANK)	A7				
ROUNDING =				4.83	3.95
SUBTOTAL =				88.00	84.00

CURB REMOVAL FOR STORAGE & EXISTING GRANITE CURB AVAILABLE FOR RESET			
ITEM 202.6 & 609.50	DESCRIPTION	STRAIGHT GRANITE CURB	CURVED GRANITE CURB
UNIT		LF	LF
LOCATION STATION TO STATION			
110+28.91 RT 24.54 - 110+88.21 RT 13.00		63.0	
110+88.21 RT - 110+88.25 RT			10.06
111+34.42 RT - 111+34.54 RT			10.06
114+82.91 RT - 115+35.95 RT		73.0	
CURB REMOVAL TOTAL	136.0	20.12	
(STRAIGHT CURB) LESS 10% BREAKAGE	13		
EXISTING CURB AVAILABLE FOR RESET	123	20.12	
USED (SEE PROPOSED CURB SUMMARY)	123		
ITEM 202.6 - CURB REMOVAL FOR STORAGE	0	20.12	
ITEM 609.50 RESET GRANITE CURB	123		

SEE BID ALTERNATIVE #3

SEE BID ALTERNATIVE #3

CURBING - 2									
ITEM NO.	MARK NUMBER	RADIUS	609.01	609.0124	609.0128	609.02	609.311	609.351	
ITEM			STRAIGHT GRANITE CURB	STRAIGHT GRANITE CURB (24" HIGH)	STRAIGHT GRANITE CURB (28" HIGH)	CURVED GRANITE CURB	STRAIGHT GRANITE CURB BRIDGE MODIFIED, (4")	CURVED GRANITE CURB BRIDGE MODIFIED (4" HIGH)	
UNIT		LF	LF	LF	LF	LF	LF	LF	
LOCATION STATION TO STATION									
35+12.89, RT 16.00 - 35+89.36, RT 16.00	B1		76.96						
36+75.09, RT 16.00 - 37+30.18, RT 16.00	B2		55.10						
37+30.18, RT 16.00 - 38+82.24, RT 15.00	B3	773.29	148.85						
38+82.24, RT 15.00 - 41+22.32, RT 21.86	B4	676.29	233.56						
41+22.32, RT 21.86 - 42+14.79, RT 24.50	B5		92.50						
42+14.79, RT 24.50 - 43+63.54, RT 24.50	B6		148.76						
43+98.43, RT 24.50 - 45+92.91, RT 24.50	B7		194.48						
43+82.46, LT 33.82 - 43+83.38, LT 27.08	C1		6.60						
43+83.38, LT 27.08 - 43+87.71, RT 24.50	C2	3.00				4.29			
43+87.71, RT 24.50 - 44+87.24, RT 24.50	C3		99.53						
44+87.24, RT 24.50 - 45+00.70, RT 36.32	C4	15.00				20.36			
45+00.70, LT 36.32 - 45+03.47, LT 49.13	C5		13.10						
45+03.47, LT 49.13 - 45+01.28, LT 51.54	C6	2.00				3.81			
45+01.28, LT 51.54 - 44+80.38, LT 49.04	C7		21.17						
44+02.00, LT 3.50 - 45+82.56, LT 3.50	D1						180.56		
45+82.56, LT 3.50 - 45+82.56, LT 7.50	D2	2.00						6.28	
45+82.56, LT 7.50 - 44+02.00, LT 7.50	D3						180.56		
44+02.00, LT 7.50 - 44+02.00, LT 3.50	D4	2.00						6.28	
45+49.08, LT 52.98 - 45+33.80, LT 51.47	E1		15.36						
45+33.80, LT 51.47 - 45+32.06, LT 48.97	E2	2.00				3.46			
45+32.06, LT 48.97 - 45+59.56, LT 28.10	E3	28.00	37.20						
45+59.56, LT 28.10 - 45+61.25, LT 28.10	E4		1.70						
45+61.25, LT 28.10 - 45+88.28, LT 37.11	E5	45.00	29.00						
45+88.28, LT 37.11 - 46+06.07, LT 77.18	E6	45.00	32.87						
1+49.25, RT 24.06 - 1+59.70, RT 21.85	F1	45.28	10.66						
1+59.70, RT 21.85 - 2+39.99, RT 15.00	F2		80.58						
2+39.99, RT 15.00 - 2+72.65, RT 15.00	F3		32.67						
2+72.65, RT 15.00 - 2+93.64, RT 26.42	F4	25.00	24.92						
2+96.42, RT 32.24 - 2+97.64, RT 40.70	F5	25.00	8.6						
1+60.16, RT 27.33 - 2+00.00, RT 24.00	F6	40.00				17.53			
1+43.40, RT 32.70 - 1+60.16, RT 27.33	F7					40.00			
3+26.99, RT 27.00 - 3+33.00, RT 31.50	F8	22.00	10.50						
3+45.80, RT 26.00 - 4+23.68, RT 26.00	F9	776.00	80.94						
4+23.68, RT 26.00 - 4+63.12, RT 26.00	F10		38.31						
4+63.12, RT 26.00 - 5+04.85, RT 42.89	F11	60.00	46.16						
5+08.33, RT 46.55 - 5+18.46, RT 65.37	F12	60.00	22.00						
5+18.46, RT 65.37 - 5+55.08, RT 162.67	F13		103.91						
4+43.03, LT 138.46 - 4+64.42, LT 80.55	G1		61.73						
4+64.42, LT 80.55 - 4+24.80, LT 26.86	G2	40.00	78.91						
4+24.80, LT 26.86 - 3+46.04, LT 26.21	G3		85.80						
2+71.01, LT 26.00 - 1+79.87, LT 26.00	G4		91.14						
4+28.02, LT 132.92 - 4+53.58, LT 65.43	P1		72.00						
4+53.58, LT 65.43 - 4+18.63, LT 52.16	P2		36.97						
4+18.63, LT 52.16 - 4+17.82, LT 34.18	P3		18.00						
4+17.82, LT 34.18 - 3+22.99, LT 32.49	P4		91.50						
SUBTOTAL (CURB - 2) =			2202.04		57.53	31.92	361.12	12.56	
SUBTOTAL (CURB - 1) =			1667.09			8.59			
SUBTOTAL (CURB - 1 + CURB - 2) =			3869.13		57.53	40.51	361.12	12.56	
LESS CURB AVAILABLE FOR RESET (SEE CURB REMOVAL SUMMARY)			123						
PROJECT SUBTOTAL =			3746.13		57.53	40.51	361.12	12.56	
ROUNDING			193.87		4.47	4.49	18.88	2.44	
PROJECT TOTAL =			3940		62	45	380	15	

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD	DAD/MLD	JF

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CITY OF DOVER
 CITY HALL
 DOVER, NH 03860

SUMMARY OF QUANTITIES
 STATE PROJ. NO. 1944/12008
 FED. PROJ. NO. STP-TE-X-6126(016)
 FED. PROJ. NO. STP-X-005(202)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: JOB NO.
 DATE: DEC 2007 DWG. NO. 000172
 5

SUMMARY OF QUANTITIES			
Item No.	Description	Quantity	Unit
201.21	SMALL TREE REMOVAL	23	EA
201.22	LARGE TREE REMOVAL	4	EA
202.41	REMOVAL OF EXISTING PIPE 0 - 24" DIAMETER	210	LF
202.5	REMOVAL OF CATCH BASINS	2	EA
203.10	COMMON EXCAVATION	6325	CY
203.60	EMBANKMENT-IN-PLACE	715	CY
206.10	COMMON STRUCTURE EXCAVATION	278	CY
206.5	TEST PITS	25	EA
209.1	GRANULAR BACKFILL	221	CY
214.01	FINE GRADING (PROJECT 12644)	1	U
214.02	FINE GRADING (PROJECT 12608)	1	U
304.2	GRAVEL	3095	CY
304.3	CRUSHED GRAVEL	1960	CY
403.11	HOT BITUMINOUS PAVEMENT (MACHINE METHOD)	2357	T
403.12	HOT BITUMINOUS PAVEMENT (HAND METHOD)	423	T
403.99	TEMPORARY BITUMINOUS PAVEMENT	57	T
417	COLD PLANING BITUMINOUS SURFACES	2680	SY
520.1	CONCRETE CLASS A	2	CY
544	REINFORCING STEEL	16	LB
585.3	STONE FILL, CLASS C	25	CY
593.412	PERMANENT EROSION CONTROL GEOTEXTILE, CL. 1, WOVEN	54	SY
603.00312	12" REINFORCED CONCRETE PIPE, 3000D (CLASS IV)	25	LF
603.33212	12" DIAMETER FLARED END SECTION - HDPE	1	EA
603.82212	12" PLASTIC PIPE (SMOOTH INTERIOR)	2120	LF
603.82215	15" PLASTIC PIPE (SMOOTH INTERIOR)	1410	LF
603.82230	30" PLASTIC PIPE (SMOOTH INTERIOR)	60	LF
603.89	STORMWATER TREATMENT SYSTEM	3	U
603.91	WINCHESTER ARMS INFILTRATION BASIN	1	U
603.92	TAMARACK INFILTRATION BASIN	1	U
604.12	CATCH BASIN TYPE B - 4' DIA.	33	U
604.125	CATCH BASIN TYPE B - 5' DIA.	3	U
604.126	CATCH BASIN TYPE B - 6' DIA.	1	U
604.242	DROP INLET - 2' DIA, TYPE DB	3	U
604.324	DRAINAGE MANHOLE - 4' DIA.	7	U
604.325	DRAINAGE MANHOLE - 5' DIA.	1	U
604.4	RECONSTRUCTING EXISTING CB/DI	2	EA
604.51	RECONSTRUCTING/ADJUSTING SEWER MANHOLES	5	LF
607.845	CHAIN LINK FENCE - VINYL COATED 4' HIGH	390	LF
607.9	RESETTING RAILING AND FENCING	35	LF
608.125	2.5" BITUMINOUS SIDEWALK	2045	SY
608.24	4" CONCRETE SIDEWALK	249	SY
608.28	6" CONCRETE SIDEWALK	62	SY
608.52	DETECTABLE WARNING PANELS	276	SF
609.01	STRAIGHT GRANITE CURB	3940	LF
609.0128	STRAIGHT GRANITE CURB (28" HIGH)	62	LF
609.02	CURVED GRANITE CURB	45	LF
609.311	STRAIGHT GRANITE CURB (BRIDGE), MODIFIED	380	LF
609.351	CURVED GRANITE CURB (BRIDGE), MODIFIED	15	LF
609.5	RESET GRANITE CURB	123	LF
611.05	WATER MAIN RELOCATION	1	U
611.52	RELOCATE CURB STOP AND BOX	6	EA
611.811	RELOCATE HYDRANT	2	EA
611.90001	ADJUSTING WATER GATES & SHUTOFFS SET BY OTHERS	10	EA
614.511	CONCRETE PULL BOX - 14" x 14"	8	EA
614.523	MOLDED PULL BOX, 17" x 30"	3	EA
614.7314	3" PVC PLASTIC CONDUIT, SCHEDULE 40	345	LF
614.7318	3" PVC PLASTIC CONDUIT, SCHEDULE 80	235	LF
614.7324	3" 2-DUCT PVC PLASTIC CONDUIT, SCHEDULE 40	5	LF
614.7328	3" 2-DUCT PVC PLASTIC CONDUIT, SCHEDULE 80	160	LF
615.00401	RELOCATING COMMERCIAL SIGN @ NEXTEL	1	U
615.00402	RELOCATING COMMERCIAL SIGN @ THAI SWEET PEPPER RESTAURANT	1	U
615.00403	RELOCATING COMMERCIAL SIGN @ PORTLAND GLASS	1	U
615.03	TRAFFIC SIGN TYPE C (F)	36	SF
615.05	TRAFFIC SIGN TYPE BB (F)	24	SF
615.06	TRAFFIC SIGN TYPE CC (F)	37	SF
615.034	RELOCATING TRAFFIC SIGNS	12	EA
616.101	TRAFFIC SIGNALS	1	LS
618.61	UNIFORMED OFFICERS WITH VEHICLE	1	\$
618.7	FLAGGERS	850	HR
619.1	MAINTENANCE OF TRAFFIC	1	LS
628.2	SAWED BITUMINOUS PAVEMENT	8940	LF
632.0104	REFLECTIVE PAINT PAVE. MARKING, 4" LINE	13655	LF
632.0118	REFLECTIVE PAINT PAVE. MARKING, 18" LINE	111	LF
632.02	REFLECTIVE PAINT PAVE. MARKING, SYM. OR WORD	170	SF
632.9104	OBLITERATE PAVEMENT MARKING LINE	5109	LF
632.92	OBLITERATE PAVEMENT MARKING, SYM. OR WORD	100	SF
641	LOAM	510	CY
645.7	STORMWATER POLLUTION PREVENTION PLAN	1	LS
645.71	MONITORING SWPPP AND EROSION/SEDIMENT CONTROL	55	HR
646.31	TURF ESTABLISHMENT WITH MULCH & TACKIFIERS	3970	SY
650	LANDSCAPING	1	\$
670.066	MAILBOX SUPPORT ASSEMBLIES	5	EA
699	MISCELLANEOUS TEMPORARY EROSION & SEDIMENT CONTROL	1	\$
692	MOBILIZATION	1	LS
1000.1	ALTERATIONS AND ADDITIONS	1	\$

NOTE:

CURBING AND DRAINAGE SUMMARY SHEETS
SHOW BREAKDOWN OF THE ITEMS SUMMARIZED HERE.
(SEE SHEETS 5 & 6)

NOTE:

FOR BID ALTERNATE #1/#2 - SEE BID FORM.

BID ALTERNATE #3 (SEE GENERAL NOTES 24 AND 25)			
Item No.	Description	Quantity	Unit
608.125	2.5" BITUMINOUS SIDEWALK	34	SY
608.24	4" CONCRETE SIDEWALK	4	SY
608.52	DETECTABLE WARNING PANELS	9	SF
609.0124	STRAIGHT GRANITE CURB (24" HIGH)	88	LF
609.5	RESET GRANITE CURB	84	LF
615.034	RELOCATING TRAFFIC SIGNS	1	EA

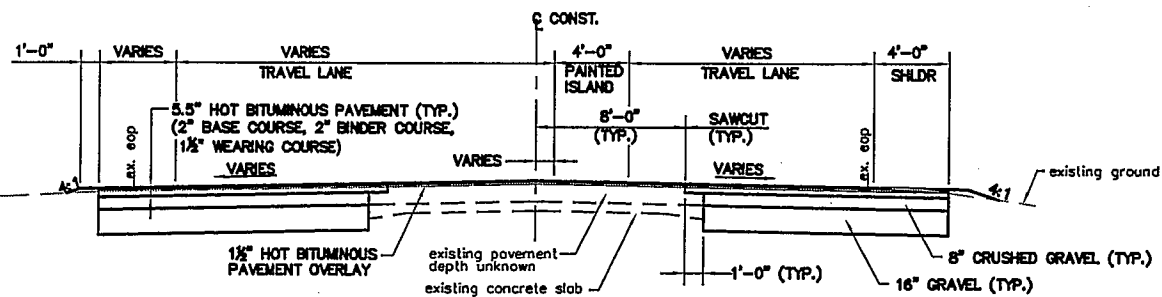
NO.	DATE	REVISION	DESIGNED: DAD/RMY	CHECKED: JLF	APPROVED: JLF

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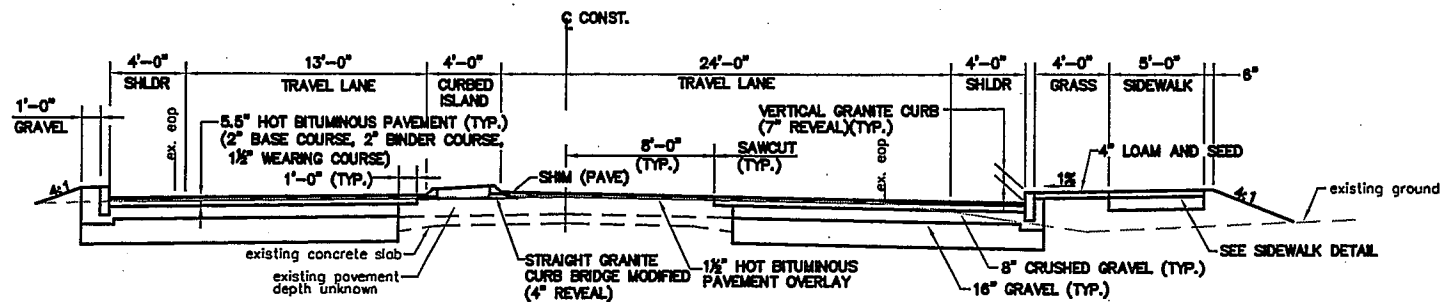
SUMMARY OF QUANTITIES
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 FED. PROJ. NO. 517-TE-X-0126(010)
 FED. PROJ. NO. 517-TE-X-0028(202)
 NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: AS NOTED	JOB NO. 080172
DATE: DEC 2007	DWG. 7



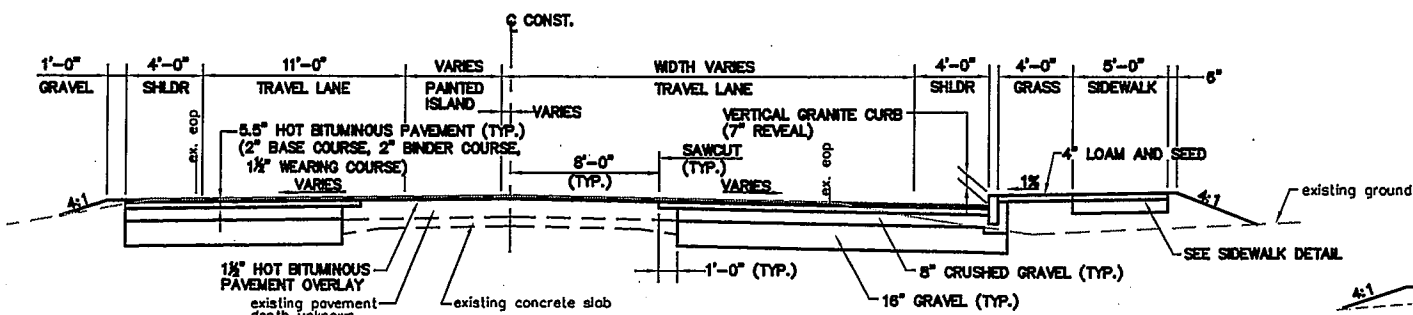
TYPICAL SECTION - NEW ROCHESTER ROAD

STA. 46+75 TO STA. 52+00
SCALE: 1" = 5'



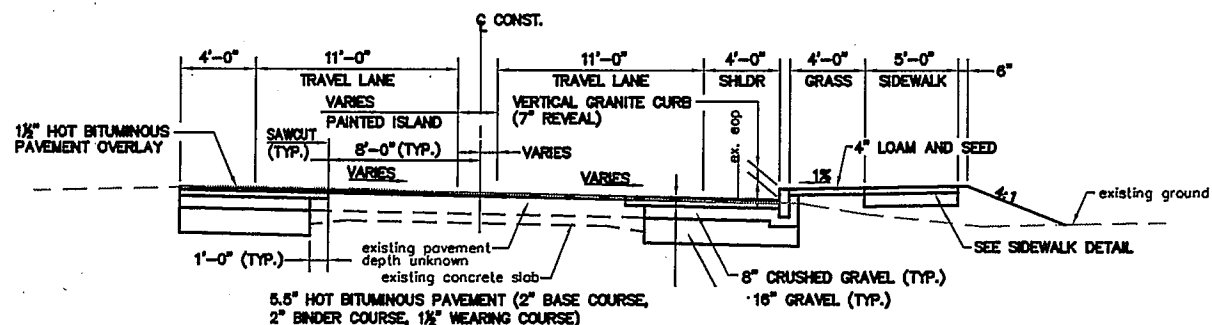
TYPICAL SECTION - NEW ROCHESTER ROAD

STA. 44+00 TO STA. 45+84
SCALE: 1" = 5'



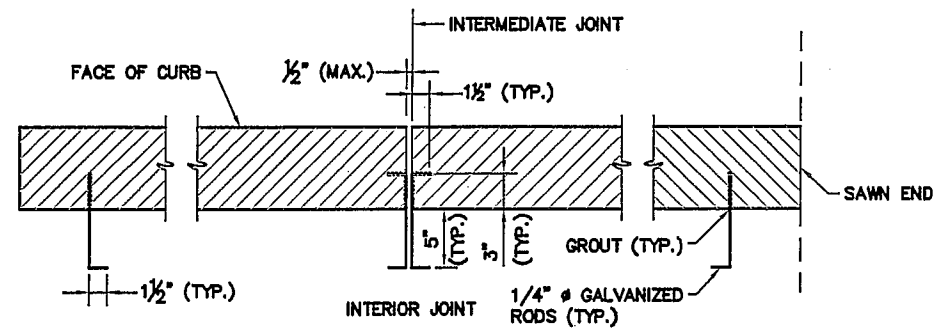
TYPICAL SECTION - NEW ROCHESTER ROAD

STA. 40+19± TO STA. 44+00
SCALE: 1" = 5'



TYPICAL SECTION - NEW ROCHESTER ROAD

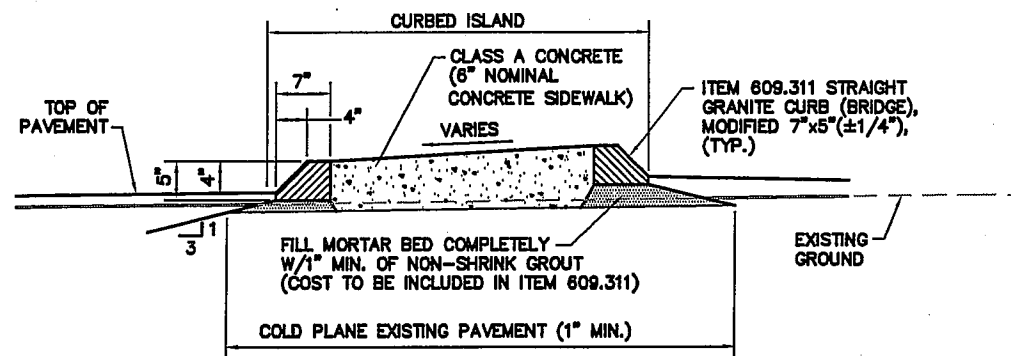
STA. 38+82.50 TO STA. 40+19±
SCALE: 1" = 5'



MEDIAN CURB ANCHOR DETAIL

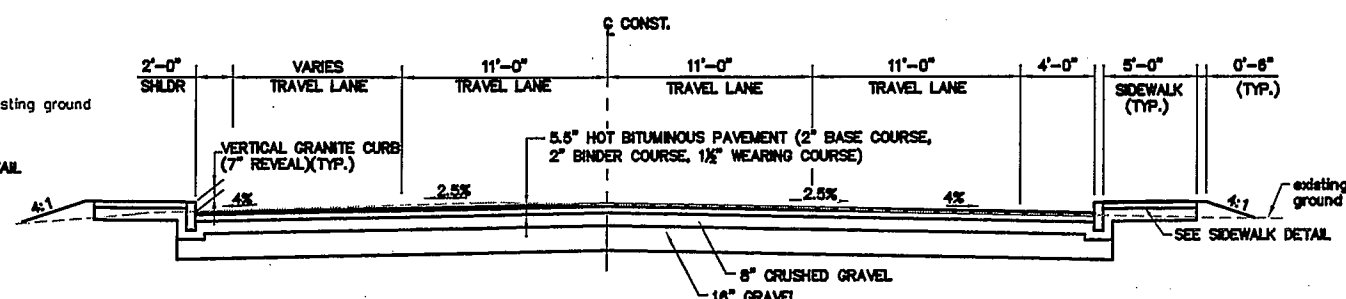
SCALE: 1 1/2" = 1'-0"

NOTE:
CURB ANCHORS SHALL BE 1/4" RODS, TWO PER STONE,
STAGGERED IN ADJACENT STONES AND COUNTERSUNK
(COST SHALL BE INCLUDED IN ITEMS 609.3 OR 809.311).



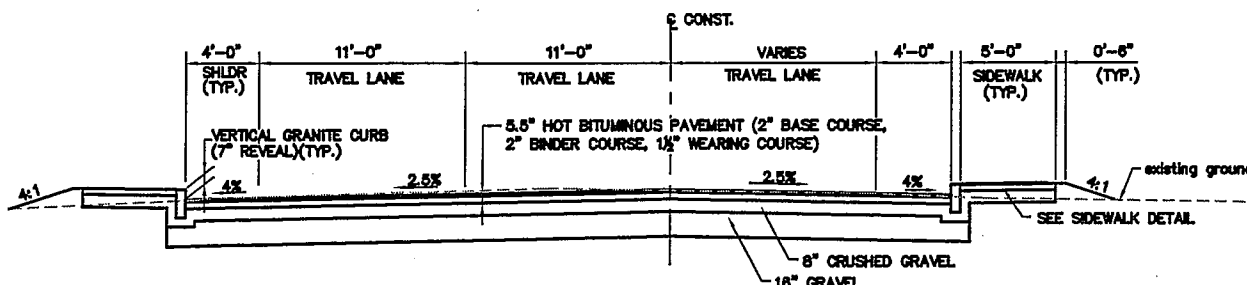
MEDIAN CURB DETAIL

SCALE: 1" = 1'-0"



TYPICAL SECTION - LONG HILL ROAD

(STATION 3+25± TO 4+99)
SCALE: 1" = 5'



TYPICAL SECTION - LONG HILL ROAD

(STATION 1+75 TO 3+25±)
SCALE: 1" = 5'

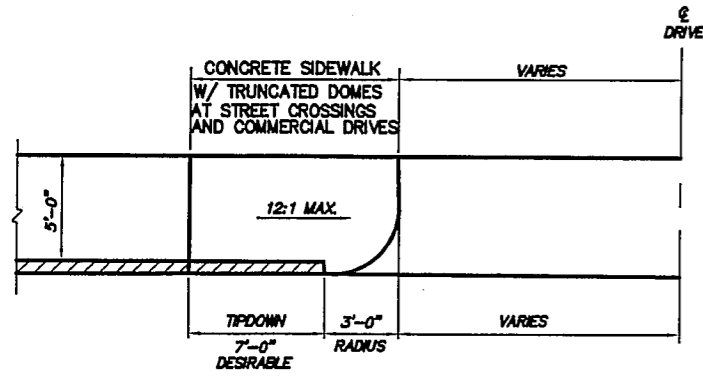
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
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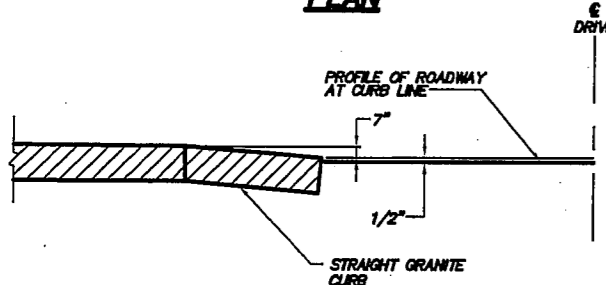
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TYPICAL SECTIONS
 SCALE: AS NOTED
 JOB NO. 080172
 DATE: JULY 2007
 DWG. 8

NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE



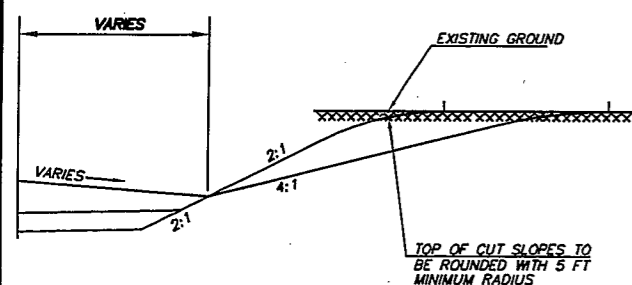
PLAN



PROFILE

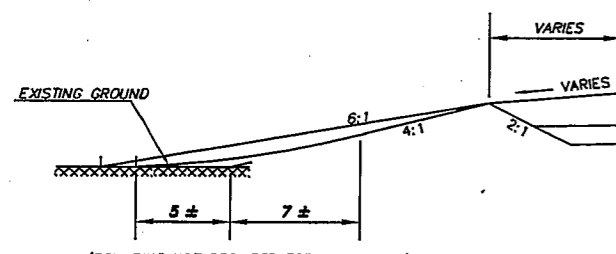
Transition Curb and Driveway

N.T.S.



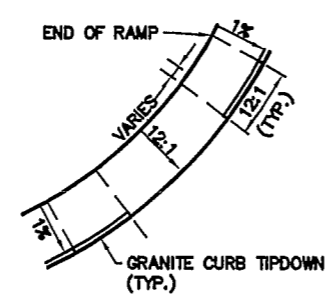
Up Slope Rounding Detail

N.T.S.



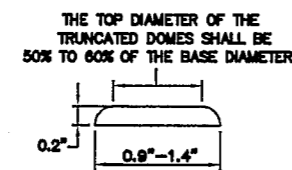
Down Slope Rounding Detail

N.T.S.



- NOTES:**
 1. MAINTAIN THE NORMAL GUTTER PROFILE THROUGHOUT THE RAMP AREA.
 2. INTERCEPT DRAINAGE ALONG THE CURB IN ADVANCE OF THE RAMP.

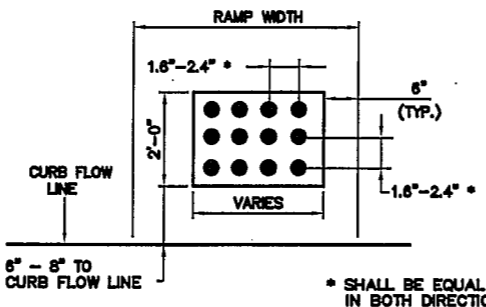
CORNER SIDEWALK RAMP
 STATION 45+90± LEFT N.T.S.



ELEVATION VIEW

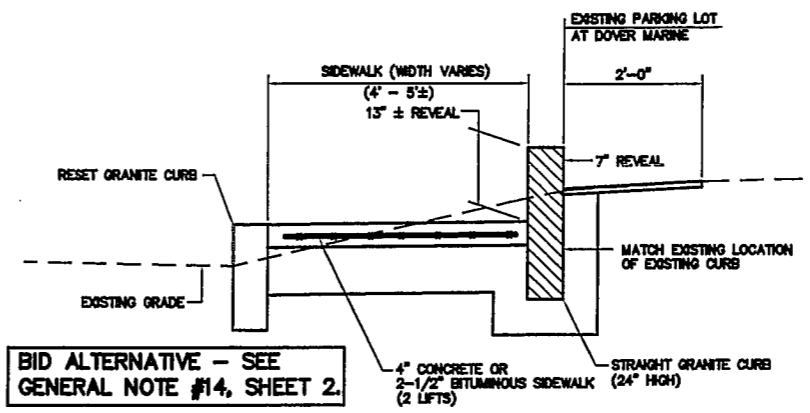
- NOTE:** THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND THE STREET. DETECTABLE WARNING PANEL LOCATION, LENGTH AND ORIENTATION SHALL BE REVIEWED WITH ENGINEER IN THE FIELD PRIOR TO ORDERING MATERIALS.

DOMES AND DETECTABLE WARNING DETAILS
 (NOT TO SCALE)



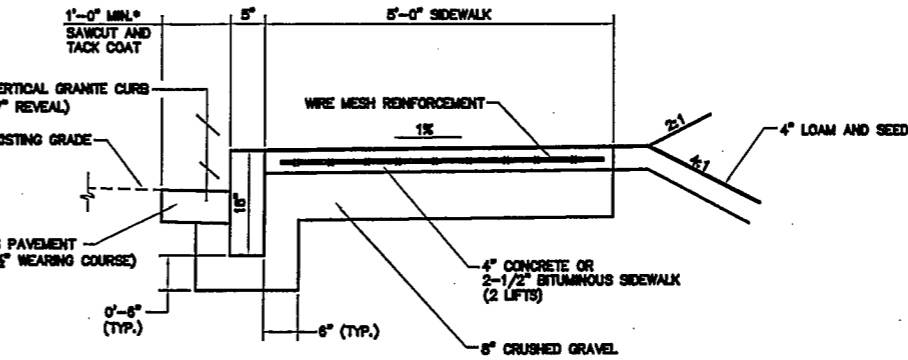
PLAN VIEW

* SHALL BE EQUAL IN BOTH DIRECTIONS



TYPICAL SIDEWALK SECTION - DOVER MARINE

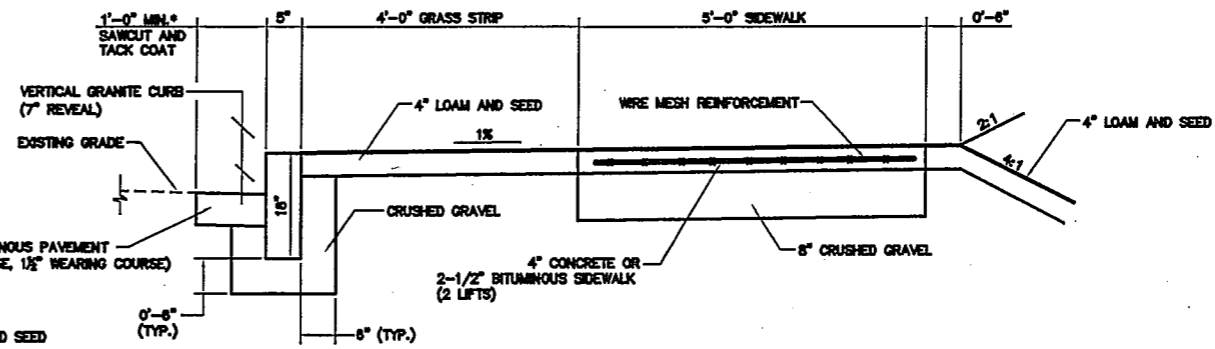
(STATION 111+34.54 TO 112+17.55)
 SCALE: 1" = 1'-0"



TYPICAL SIDEWALK SECTION

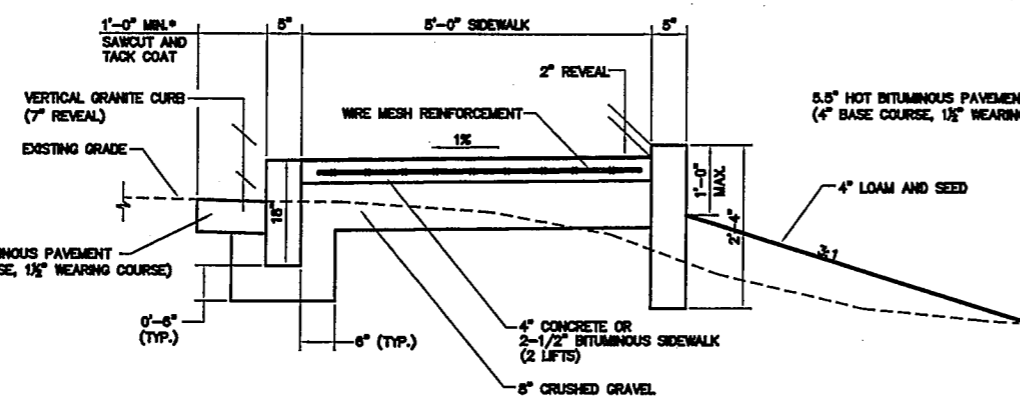
(STATION 112+35± TO 113+95±) (STATION 129+70± TO 134+67±)
 (STATION 45+30± TO 2+78±) (STATION 3+28± TO 5+55±)
 SCALE: 3/4" = 1'-0"

*IN AREAS NEED TO ACHIEVE POSITIVE DRAINAGE, PAVEMENT SHALL BE SAWCUT AT 3'-0" FROM PROPOSED FACE OF CURB (LOCATIONS SHOWN ON PLANS).



TYPICAL SIDEWALK SECTION WITH GRASS STRIP

(STATION 114+35± TO 128+50±) (STATION 35+00± TO 48+00±)
 SCALE: 3/4" = 1'-0"



TYPICAL SIDEWALK SECTION W/BACKCURB

(STATION 1+43.4± TO 2+00±)
 SCALE: 3/4" = 1'-0"

NOTE: SIDEWALK SURFACE (CONCRETE VS. PAVEMENT) WILL BE BID AS ALTERNATE (SEE BID FORM).

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			DAD		

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SIDEWALK TYPICAL SECTIONS
 RTE 109/ LONG HILL ROAD
 DOVER, NH

SCALE:	JOB NO.
AS NOTED	080172
DATE:	DWG.
DEC 2007	9


DRAINAGE NOTES: SEE GENERAL NOTE #2, SHEET 2, PRIOR TO ORDERING STRUCTURES OR INSTALLING DRAINAGE.

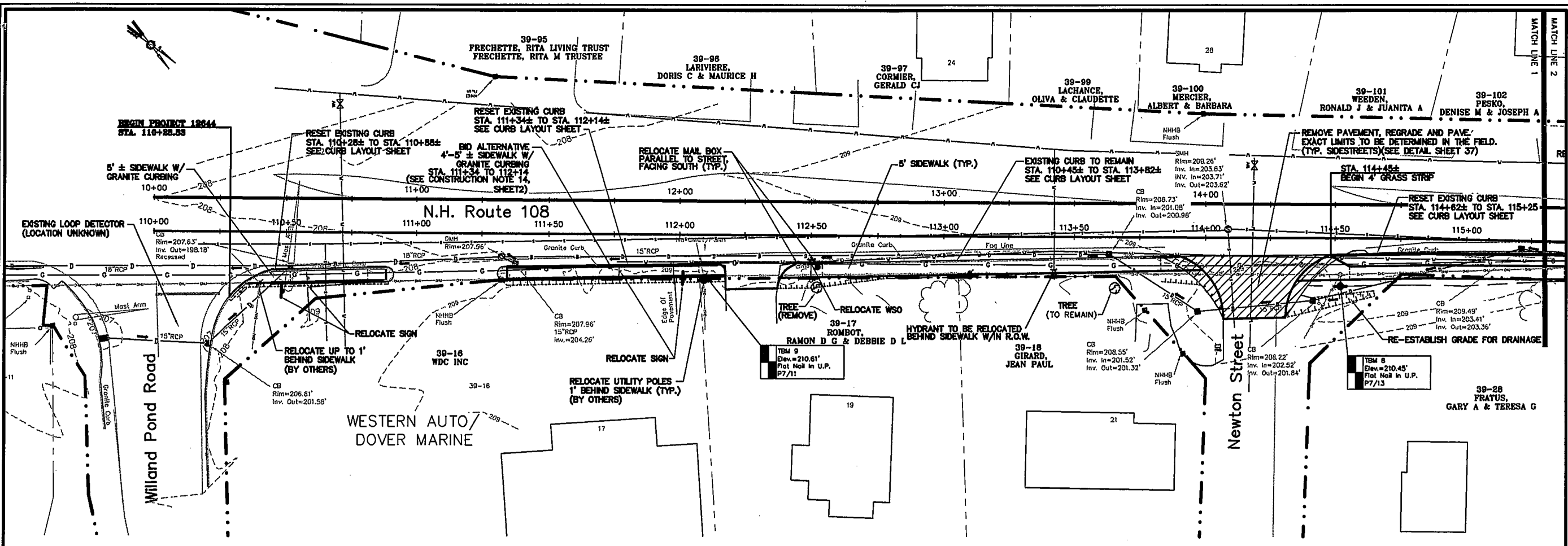
- | | | | |
|--|---|--|---|
| <p>1 STA 130+03.24, RT 24.36 (INV. = 194.15±) TO STA 129+89.59, RT 12.55
CONSTRUCT 16' x 15" HDPE W/4' CONCRETE HEADWALL
CONSTRUCT 4' # DMH +89.59, RIM = 202.5±
15" HDPE INV. IN = 194.55
15" HDPE INV. OUT = 194.30</p> <p>2A STA 129+89.59, RT 12.55 TO STA 129+53.80, RT 12.24
CONSTRUCT 34' x 15" HDPE
CONSTRUCT 2' # NYLOPLAST DRAIN BASIN, +53.80, RIM = 204.1±
15" HDPE INV. IN = 194.70 (BYPASS PIPE)
15" HDPE INV. IN = 194.70 (FROM WQU)
15" HDPE INV. OUT = 194.70</p> <p>2B STA 129+53.80, RT 12.24 TO STA 129+05.19, RT 11.08
CONSTRUCT 48' x 15" HDPE
CONSTRUCT 2' # NYLOPLAST DRAIN BASIN, +05.19, RIM = 204.8±
12" HDPE INV. IN = 196.43
15" HDPE INV. OUT = 194.93 (TO WQU)
15" HDPE INV. OUT = 196.18 (BYPASS PIPE)</p> <p>2C STA 129+05.19, RT 11.08 TO STA 128+47.15, RT 9.92
CONSTRUCT 57' x 12" HDPE
CONSTRUCT 4' # CB, +47.15, RIM = 204.4±
12" HDPE INV. IN = 196.96
12" HDPE INV. OUT = 196.70</p> <p>3 STA 128+47.15, RT 9.92 TO STA 128+34.65, RT 13.88
CONSTRUCT 211.5' x 12" HDPE
CONSTRUCT 4' # CB, +34.65, RIM = 207.45±
12" HDPE INV. IN = 198.24
12" HDPE INV. OUT = 198.00</p> <p>4 STA 128+34.65, RT 13.88 TO STA 128+06.33, RT 14.36
CONSTRUCT 24' x 12" HDPE
CONSTRUCT 4' # CB, +06.33, RIM = 207.75±
12" HDPE INV. IN = 198.62
12" HDPE INV. OUT = 198.37</p> <p>5 STA 128+06.33, RT 14.36 TO STA 124+00.28, RT 13.00
CONSTRUCT 205.0' x 12" HDPE
CONSTRUCT 4' # CB, +00.28, RIM = 209.65±
12" HDPE INV. IN = 199.87
12" HDPE INV. OUT = 199.62</p> <p>6 STA 124+00.28, RT 13.00 TO STA 123+69.50, RT 13.50
CONSTRUCT 27' x 12" HDPE
CONSTRUCT 4' # CB, +69.50, RIM = 209.75±
12" HDPE INV. IN = 200.26
12" HDPE INV. OUT = 200.00</p> <p>7 STA 123+69.50, RT 13.50 TO STA 121+52.33, RT 13.58
CONSTRUCT 215' x 12" HDPE
CONSTRUCT 4' # CB, +52.33, RIM = 211.1±
12" HDPE INV. IN = 201.58
12" HDPE INV. OUT = 201.33</p> <p>8 STA 121+52.33, RT 13.58 TO STA 121+25.25, RT 13.40
CONSTRUCT 23.2' x 12" HDPE
CONSTRUCT 4' # CB, +25.25, RIM = 211.0±
12" HDPE INV. IN = 201.95
12" HDPE INV. OUT = 201.70
REGRADE LAKE STREET TO DRAIN</p> <p>9 STA 121+25.25, RT 13.40 TO STA 119+12.20, RT 11.80
CONSTRUCT 211.5' x 12" HDPE
CONSTRUCT 4' # CB, +12.20, RIM = 210.4±
12" HDPE INV. IN = 203.25
12" HDPE INV. OUT = 203.00</p> <p>10 STA 119+12.20, RT 11.80 TO STA 118+82.00, RT 11.00
CONSTRUCT 26.5' x 12" HDPE
CONSTRUCT 4' # CB, +82.00, RIM = 210.5±
12" HDPE INV. IN = 203.62
12" HDPE INV. OUT = 203.38</p> <p>11 STA 118+82.00, RT 11.00 TO STA 116+73.40, RT 14.00
CONSTRUCT 206.5' x 12" HDPE
CONSTRUCT 4' # CB, +73.40, RIM = 209.7±
12" HDPE INV. OUT = 205.68</p> <p>12 STA 34+81.23, RT 140.20 TO STA 34+91.06, RT 81.62
CONSTRUCT 57.5' x 30" HDPE
INV. OUT = 193.62</p> | <p>13 STA 34+91.06, RT 81.62
CONSTRUCT 6' # CB, RIM = 198.80
30" HDPE INV. OUT = 194.20
TWIN 15" (EXIST) INV. IN = 196.62±
12" HDPE INV. IN = 195.90
12" HDPE INV. IN = 195.70</p> <p>14 STA 34+91.06, RT 81.62 TO STA 35+01.06, RT 81.62
CONSTRUCT 5' x 12" HDPE</p> <p>15 STA 35+01.06, RT 81.62
CONSTRUCT 4' # DMH, RIM = 199.10
12" HDPE INV. IN = 196.00
12" HDPE INV. OUT = 195.75</p> <p>16 STA 34+91.06, RT 81.62 TO STA 134+25.00, RT 15.66
CONSTRUCT 80' x 12" HDPE
CONSTRUCT 4' # DMH, +25, RIM = 202.20±
12" HDPE INV. IN = 196.55
12" HDPE INV. IN = 196.90
12" HDPE INV. OUT = 196.30</p> <p>17 STA 134+25.00, RT 15.66 TO STA 134+25.00, RT 2.25
CONSTRUCT 10.5' x 12" HDPE
CONSTRUCT 2' DI-DB, +25, RIM = 201.59
12" HDPE INV. OUT = 197.00</p> <p>18 STA 134+25.00, RT 15.66 TO STA 133+25.00, RT 13.67
CONSTRUCT 97' x 12" HDPE
CONSTRUCT 4' # DMH, 133+25, RIM = 202.35±
12" HDPE INV. IN = 197.10
12" HDPE INV. IN = 197.42
12" HDPE INV. OUT = 196.85</p> <p>19 STA 133+25.00, RT 13.67 TO STA 133+25.00, RT 2.25
CONSTRUCT 9' x 12" HDPE
CONSTRUCT 2' DI-DB, 133+25, RIM = 201.59
12" HDPE INV. OUT = 197.50</p> <p>20 STA 133+25.00, RT 13.67 TO STA 132+25.00, RT 11.75
CONSTRUCT 97' x 12" HDPE
CONSTRUCT 4' # DMH, 132+25, RIM = 202.25±
12" HDPE INV. IN = 197.65
12" HDPE INV. OUT = 197.40</p> <p>21 STA 132+25.00, RT 11.75 TO STA 132+25.00, RT 2.25
CONSTRUCT 6.5' x 12" HDPE
CONSTRUCT 2' DI-DB, +25, RIM = 201.47
12" INV. OUT = 197.70</p> <p>22 STA 35+01.06, RT 81.62 TO STA 35+15, RT 15.00
CONSTRUCT 65' x 12" HDPE
CONSTRUCT 4' # CB, +15, RIM = 201.69
12" HDPE INV. IN = 197.25
12" HDPE INV. OUT = 197.00</p> <p>23 STA 35+15, RT 15.00 TO STA 35+83.45, RT 15.00
CONSTRUCT 65' x 12" HDPE
CONSTRUCT 4' # CB, +83.45, RIM = 201.75
12" HDPE INV. IN = 197.70
12" HDPE INV. OUT = 197.45</p> <p>24 STA 35+83.45, RT 15.00 TO STA 36+80.00, RT 15.00
CONSTRUCT 93.5' x 12" HDPE
CONSTRUCT 4' # CB, +80.00, RIM = 202.48
12" INV. IN = 198.25
12" INV. OUT = 198.00</p> | <p>25 STA 36+80.00, RT 15.00 TO STA 37+82.00, RT 15.00
CONSTRUCT 78' x 12" HDPE
CONSTRUCT 4' # CB, +82.00, RIM = 203.23
12" HDPE INV. IN = 199.15
12" HDPE INV. OUT = 198.90</p> <p>26 STA 37+82.00, RT 15.00 TO STA 38+50.00, RT 15.00
CONSTRUCT 83' x 12" HDPE
CONSTRUCT 4' # CB, +50.00, RIM = 204.45
12" HDPE INV. OUT = 200.00</p> <p>27A STA 40+95.8, RT 50.83 TO STA 40+96.3, RT 34.20
CONSTRUCT 16' x 15" HDPE W/15" TEE INTO BASIN
15" HDPE TEE INV. = 197.60
CONSTRUCT 2' # NYLOPLAST DRAIN BASIN +96.3, RIM = 206.0±
15" HDPE INV. IN = 197.85 (BYPASS PIPE)
15" HDPE INV. IN = 197.85 (FROM WQU)
15" HDPE INV. OUT = 197.85 (TO TEE)</p> <p>27B STA 40+96.3, RT 34.20 TO STA 41+50, RT 29.40
CONSTRUCT 54' x 15" HDPE W/90' SWEEP
CONSTRUCT 2' # NYLOPLAST DRAIN BASIN +50, RIM = 206.5±
15" HDPE INV. IN = 199.30
15" HDPE INV. OUT = 199.30 (BYPASS PIPE)
15" HDPE INV. OUT = 198.05 (TO WQU)</p> <p>28 STA 41+50, RT 29.40 TO STA 41+50, RT 21.65
CONSTRUCT 5' x 15" HDPE
CONSTRUCT 4' # CB, +50, RIM = 205.90±
15" HDPE INV. IN = 199.57
15" HDPE INV. IN = 199.57
15" HDPE INV. OUT = 199.32</p> <p>29 STA 41+50, RT 21.65 TO STA 40+50.00, RT 18.80
CONSTRUCT 94.5' x 15" HDPE
CONSTRUCT 4' # CB 40+50, RIM = 205.35
15" HDPE INV. IN = 200.20
15" HDPE INV. OUT = 199.95</p> <p>30 STA 40+50.00, RT 18.80 TO STA 39+50.00, RT 15.93
CONSTRUCT 94.5' x 15" HDPE
CONSTRUCT 4' # CB, 39+50, RIM = 205.3±
15" HDPE INV. OUT = 201.0</p> <p>31 STA 41+50.00, RT 21.65 TO STA 42+50.00, RT 23.50
CONSTRUCT 97' x 15" HDPE
CONSTRUCT 4' # CB, 42+50, RIM = 206.10
15" INV. IN = 200.20
15" INV. OUT = 199.95</p> <p>32 STA 42+50.00, RT 23.50 TO STA 43+50.00, RT 23.50
CONSTRUCT 96' x 15" HDPE
CONSTRUCT 5' # CB, 43+50, RIM = 206.82
15" HDPE INV. IN = 200.90
15" HDPE INV. IN = 200.90
15" HDPE INV. OUT = 200.65</p> <p>33 STA 43+50.00, RT 23.50 TO STA 44+50.00, RT 23.50
CONSTRUCT 96' x 15" HDPE
CONSTRUCT 4' # CB, 44+50, RIM = 206.98
15" HDPE INV. IN = 201.74
15" HDPE INV. OUT = 201.49</p> <p>34 STA 44+50.00, RT 23.50 TO STA 45+50.00, RT 23.50
CONSTRUCT 97' x 15" HDPE
CONSTRUCT 4' # CB, 45+50, RIM = 207.53
12" HDPE INV. IN = 202.40
15" HDPE INV. OUT = 202.15</p> <p>35 STA 45+77, RT 45.20 TO STA 45+50.00, RT 23.50
CONSTRUCT 33.3' x 12" HDPE W/FLARED END SECTION
12" HDPE INV. (IN FLARED END SECTION) = 204.5
REGRADE AREA TO DRAIN TO END SECTION.
(SEE NOTE 6)</p> <p>36 STA 43+50.00, RT 23.50 TO STA 43+82.28, LT 27.45
CONSTRUCT 57' x 15" HDPE
CONSTRUCT 4' # CB, +82.28, RIM = 205.80
15" HDPE INV. IN = 201.34
15" HDPE INV. OUT = 201.09</p> | <p>37 STA 43+82.28, LT 27.45 TO STA 45+49.15, LT 28.82
CONSTRUCT 164.5' x 15" HDPE
CONSTRUCT 4' # CB, +49.15, RIM = 207.11
15" HDPE INV. OUT = 203.0</p> <p>38A STA 5+00.69, RT 94.15
CONSTRUCT 4' # DMH, RIM = 205±
15" HDPE INV. IN = 198.25 (BYPASS PIPE)
15" HDPE INV. IN = 198.25 (FROM WQU)
15" HDPE INV. OUT = 198.00 (TO ISOLATER ROW)
15" HDPE INV. OUT = 198.00 (TO MANIFOLD)
WEIR PLATE ELEV. = 199.25</p> <p>38B STA 5+00.69, RT 94.15 TO 4+83.72, RT 48.58
CONSTRUCT 47' x 15" HDPE
CONSTRUCT 2' # NYLOPLAST DRAIN BASIN, RIM = 206±
15" HDPE INV. IN = 199.70
15" INV. OUT = 199.70 (BYPASS PIPE)
15" HDPE INV. OUT = 198.45 (TO WQU)</p> <p>39 STA 4+83.72, RT 48.58 TO STA 4+75.28, RT 26.16
CONSTRUCT 22' x 15" HDPE
CONSTRUCT 5' # CB, +75.28, RIM = 205.0
15" INV. IN = 200.02
15" INV. IN = 200.02
15" INV. OUT = 199.75</p> <p>40 STA 4+75.28, RT 26.16 TO STA 4+60.46, LT 43.35
CONSTRUCT 67.5' x 15" HDPE
CONSTRUCT 4' # CB, +60.46, RIM = 204.72
15" HDPE INV. OUT = 200.70</p> <p>41 STA 4+75.28, RT 26.16 TO STA 2+75.00, RT 14.00
CONSTRUCT 200.5' x 15" HDPE
CONSTRUCT 4' # CB, 2+75.00, RIM = 205.49
15" HDPE INV. IN = 201.27
15" HDPE INV. OUT = 201.02</p> <p>42 STA 2+75.00, RT 14.00 TO STA 2+75.00, LT 25.30
CONSTRUCT 36' x 15" HDPE
CONSTRUCT 4' # CB, 2+75.00 LT., RIM = 205.21
15" HDPE INV. OUT = 201.45</p> <p>43 STA 35+85.00, RT 38.00 TO STA 36+75.00, RT 38.00
CONSTRUCT 90' x 12" HDPE
INV. IN = 200.0
INV. OUT = 199.5</p> |
|--|---|--|---|

REMOVAL NOTES

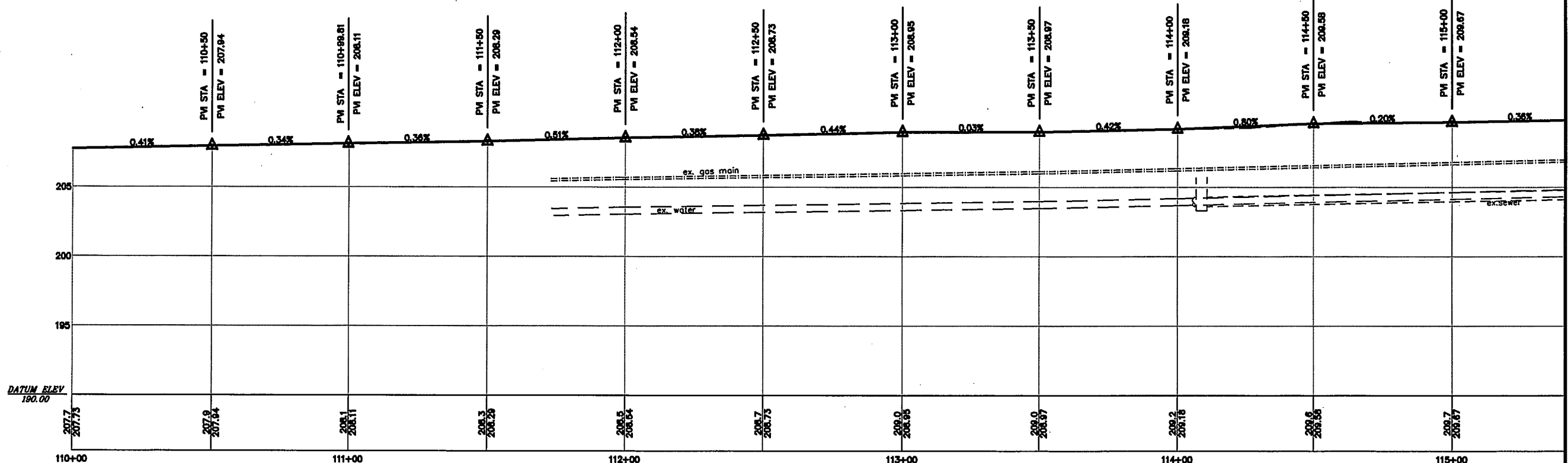
- R1 STA 34+81.23, RT 140.00 TO STA 34+91.06, RT 81.62
REMOVE (TWIN) 60' x 15" RCP (SUBSIDIARY TO NOTE 12)
- R2 STA 34+91.06, RT 81.62
REMOVE CB (SUBSIDIARY TO NOTE 13)
- R3 STA 36+00, RT 30.00 TO STA 36+80.00, RT 30.00
REMOVE 60' x 12" CMP (SUBSIDIARY TO 6)
- R4 STA 45+90.35, RT 55.60
REMOVE CB
NOTE: PRIOR TO REMOVAL, CONTRACTOR TO VERIFY EXISTING STRUCTURE DIMENSIONS AND DETERMINE FEASIBILITY FOR CORING INVERT FOR 12" HDPE TO 6. UPON DIRECTION FROM ENGINEER, THIS STRUCTURE MAY REMAIN AND REPLACE F.E.S. AND REGRADE IN NOTE 6. CORING INTO STRUCTURE SHALL BE PAID 604.4, IF REQUIRED.

RIM ELEVATIONS FOR STRUCTURES (2)-(11) ARE APPROXIMATE AND WILL DEPEND ON LIMITS OF SIDEWALK RECONSTRUCTION (SEE DETAILS SHEET 37). STRUCTURES SHALL BE ORDERED TO ALLOW A DOWNWARD ADJUSTMENT OF RIMS UP TO 6".

 <p>CONSULTING ENGINEERS Park Place Corporate Center 316 US Route 1, Suite D - York, ME 03909 (207) 363-0669 • Fax: (207) 363-2384 cid@edengineers.com • www.edengineers.com</p>		<table border="1"> <tr> <td>NO.</td> <td>DATE</td> <td>REVISION</td> <td>DESIGNED:</td> <td>CHECKED:</td> <td>APPROVED:</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DAD</td> <td>DAD</td> <td>JF</td> </tr> </table>	NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:				DAD	DAD	JF
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			DAD	DAD	JF									
<p>CITY OF DOVER</p> <p>CITY HALL</p> <p>DOVER, NH 03860</p>														
<p>DRAINAGE NOTES</p> <p>STATE PROJ. NO. 12844/12808 FED. PROJ. NO. SP-12-X-0122(016) FED. PROJ. NO. SP-12-X-005(200)</p> <p>NEW ROCHESTER RD / LONG HILL RD</p> <p>DOVER, NEW HAMPSHIRE</p>														
SCALE:	JOB NO.													
-	080172													
DATE:	DWG.													
DEC 2007	10													



PLAN
SCALE: 1 INCH = 20 FT.



PROFILE
HORIZ. 1 INCH = 20 FT.
VERT. 1 INCH = 4 FT.

NOTE: PROFILE GRADELINE FOR SIDEWALK IS AT APPROXIMATED FOG LINE (12.75' FROM CONSTRUCTION CENTERLINE). SHOULDER CROSS SLOPE SHALL VARY AS NOTED FOR POSITIVE DRAINAGE.

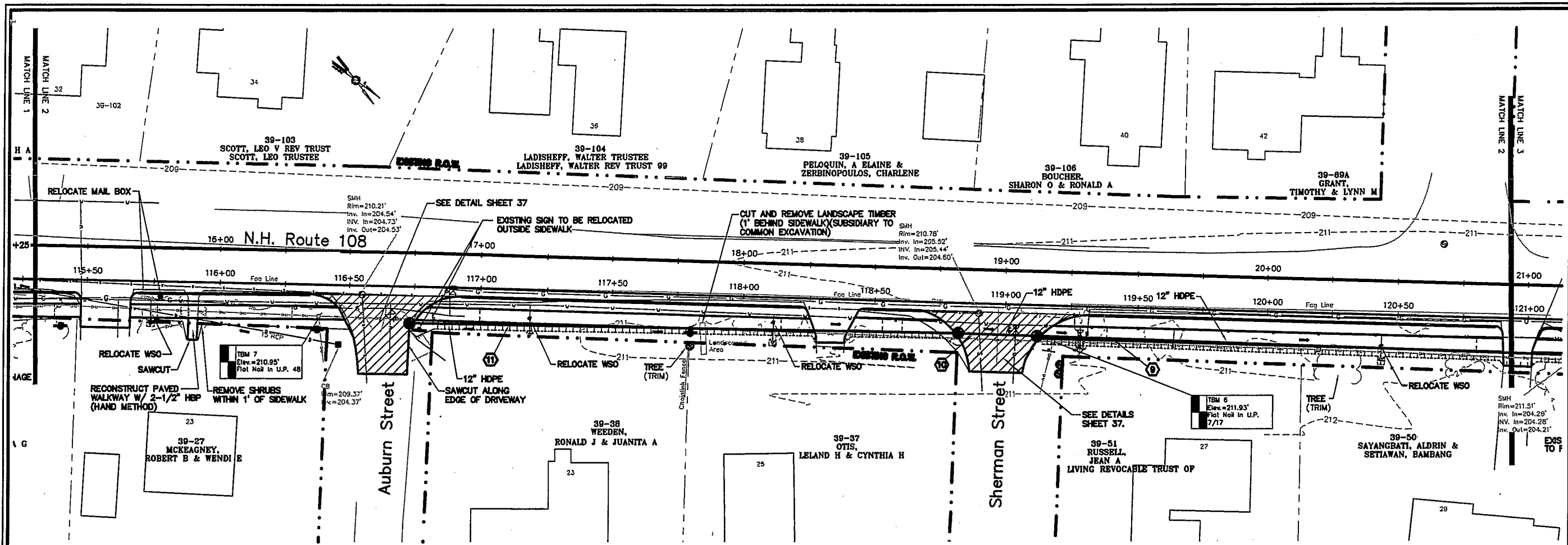
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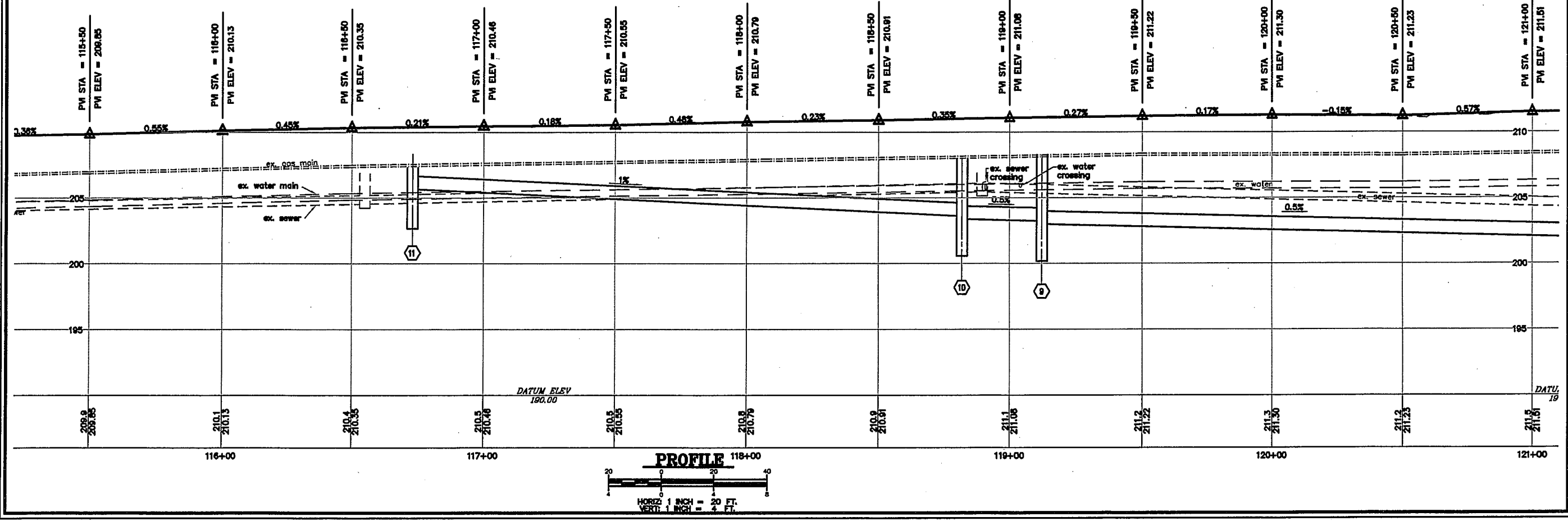
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

SIDEWALK PLAN AND PROFILE
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 FED. PROJ. NO. 578-TE-X-0128(010)
 FED. PROJ. NO. 578-X-0008(202)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	080172
DATE:	DWG.
DEC 2007	11

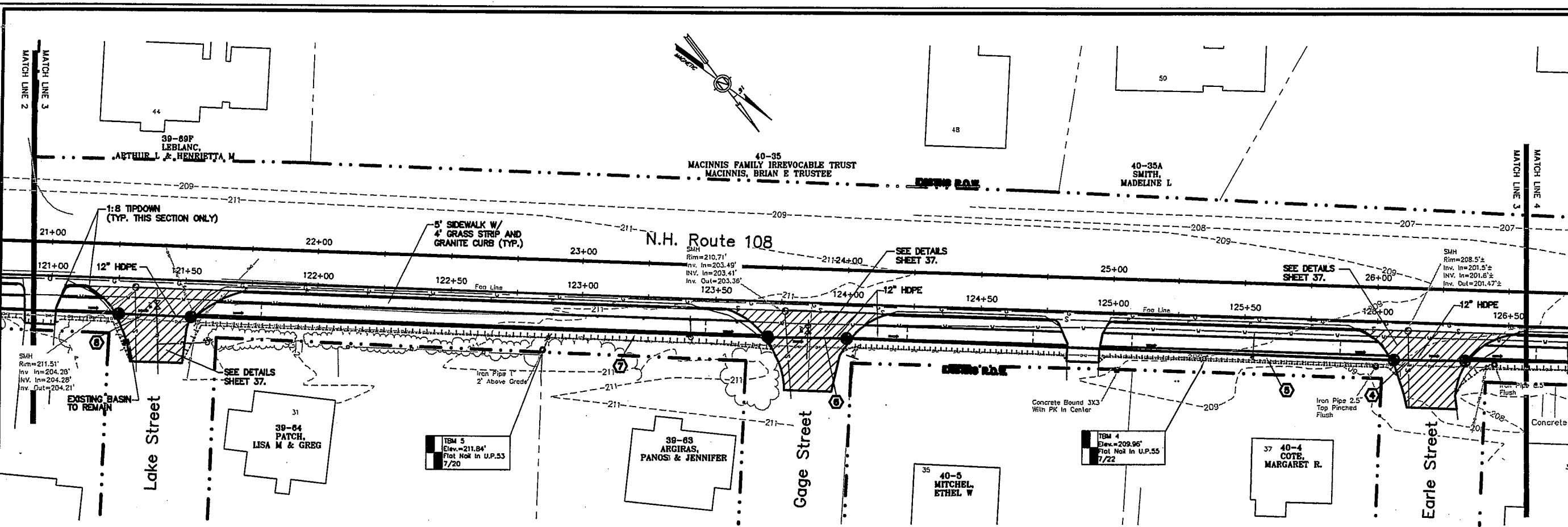


PLAN
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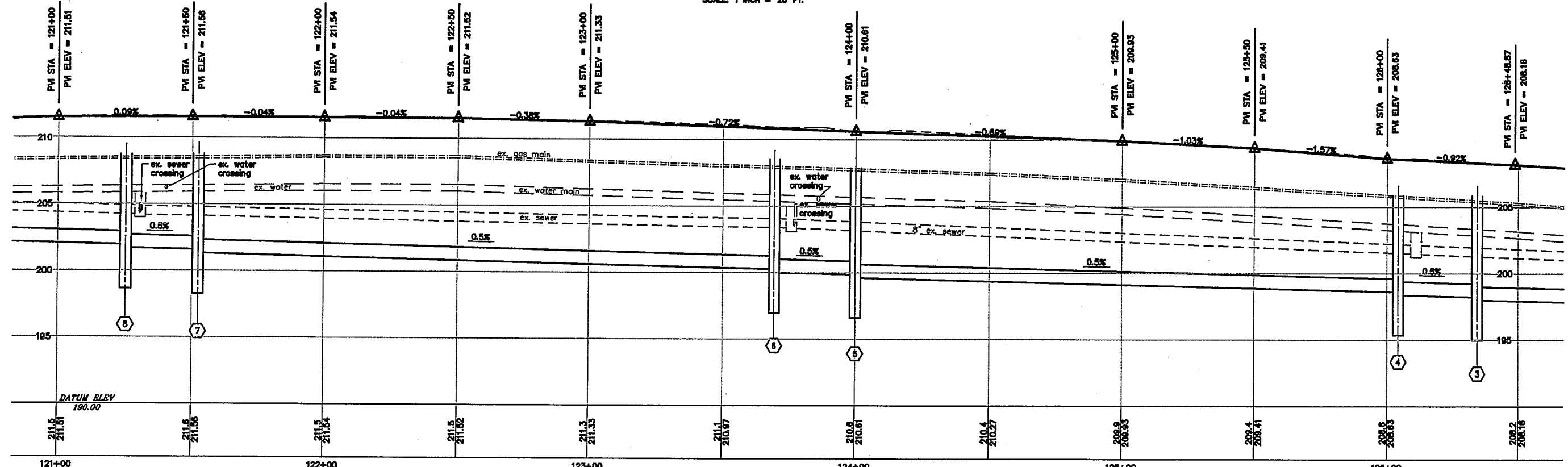


PROFILE
HORIZ. 1 INCH = 20 FT.
VERT. 1 INCH = 4 FT.

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			DAD	JLF	JLF
CITY OF DOVER CITY HALL DOVER, NH 03820					
SIDEWALK PLAN AND PROFILE STATE PROJ. NO. 12644/13005 FED. PROJ. NO. STP-1E-X-5125(010) FED. PROJ. NO. STP-1E-X-0008(260) NEW ROCHESTER RD / LONG HILL RD DOVER, NEW HAMPSHIRE					
SCALE: AS NOTED		JOB NO. 080172			
DATE: DEC 2007		DWG. 12			



PLAN
SCALE: 1 INCH = 20 FT.



PROFILE
HORIZ: 1 INCH = 20 FT.
VERT: 1 INCH = 4 FT.

NO.	DATE	REVISION	CHECKED:	APPROVED:
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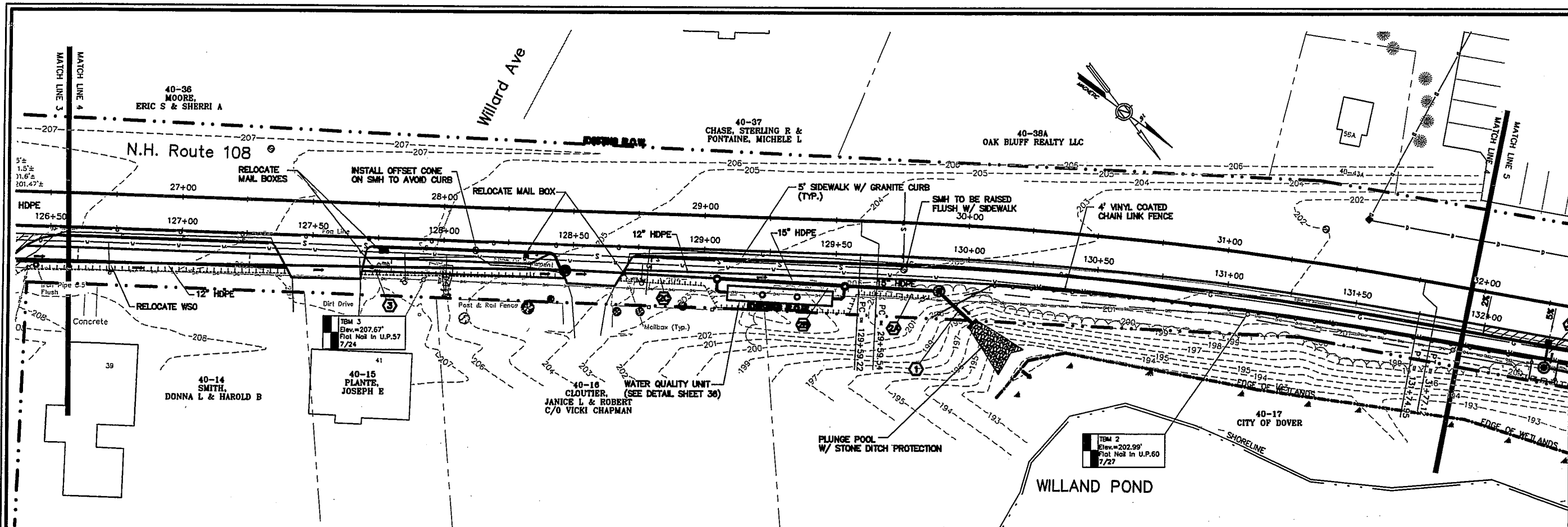
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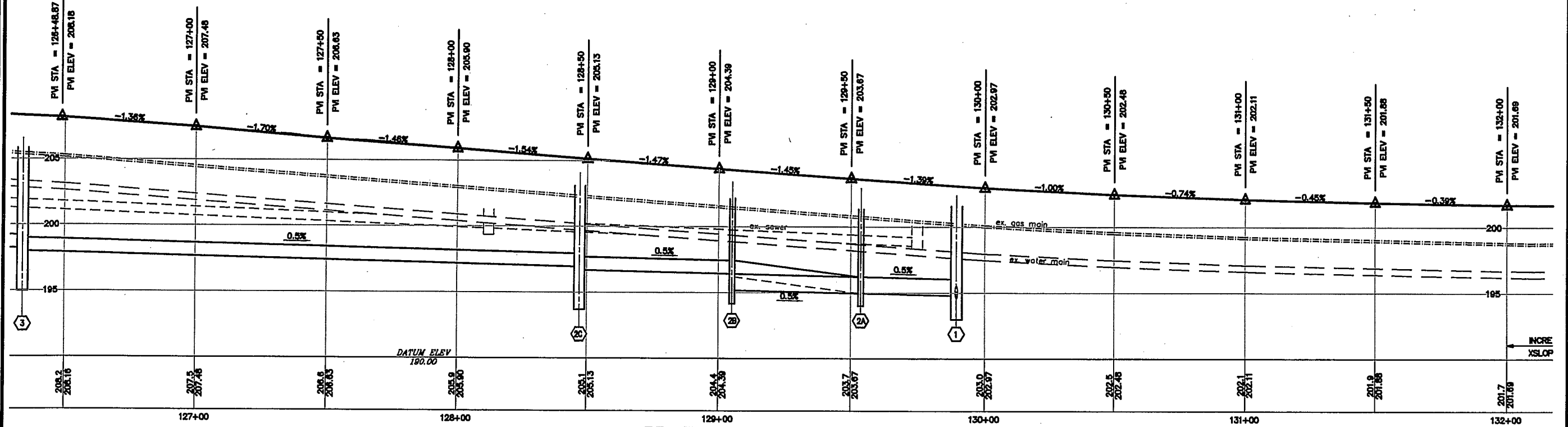
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NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	000172
DATE:	DWG.
DEC 2007	13

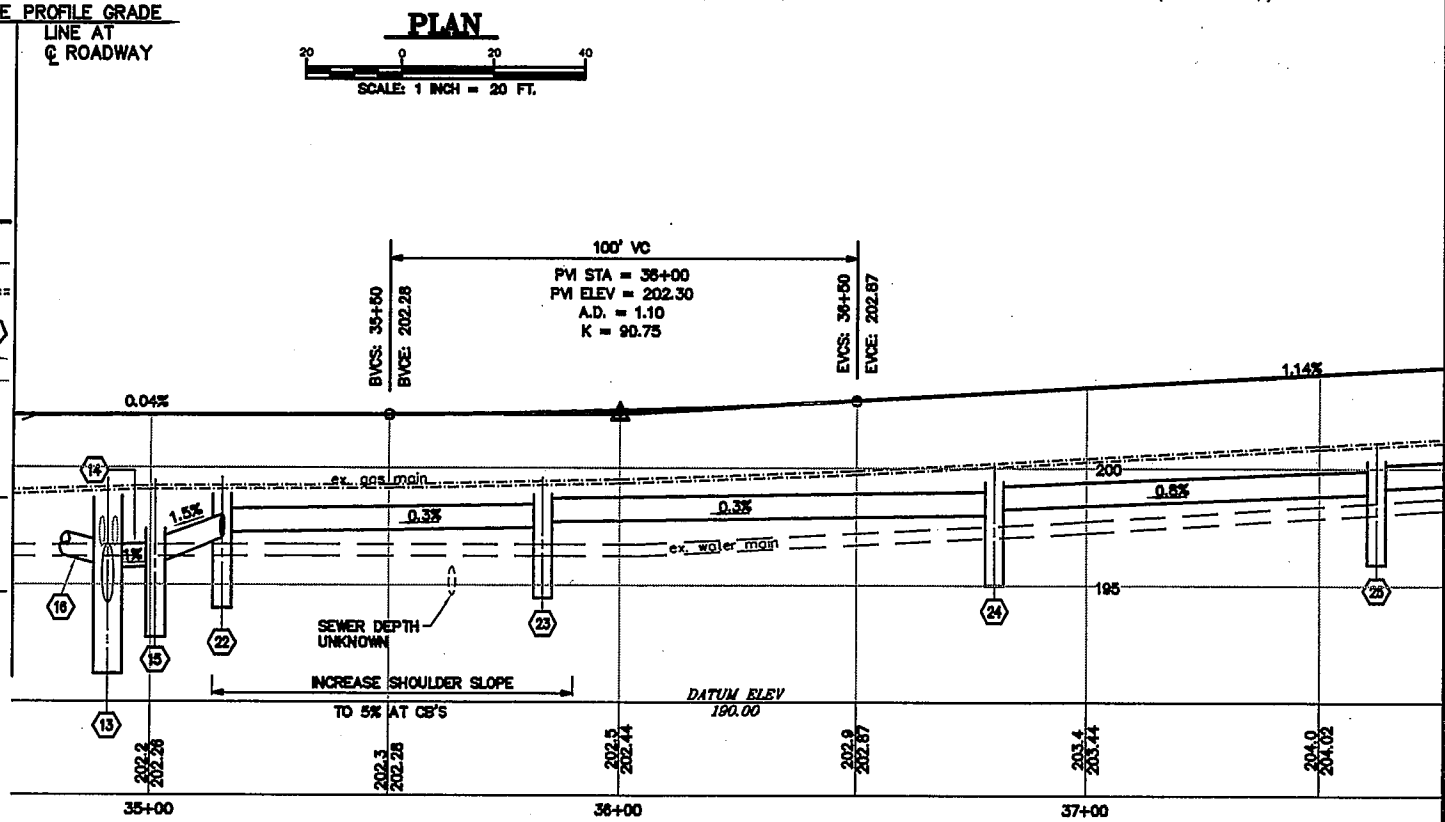
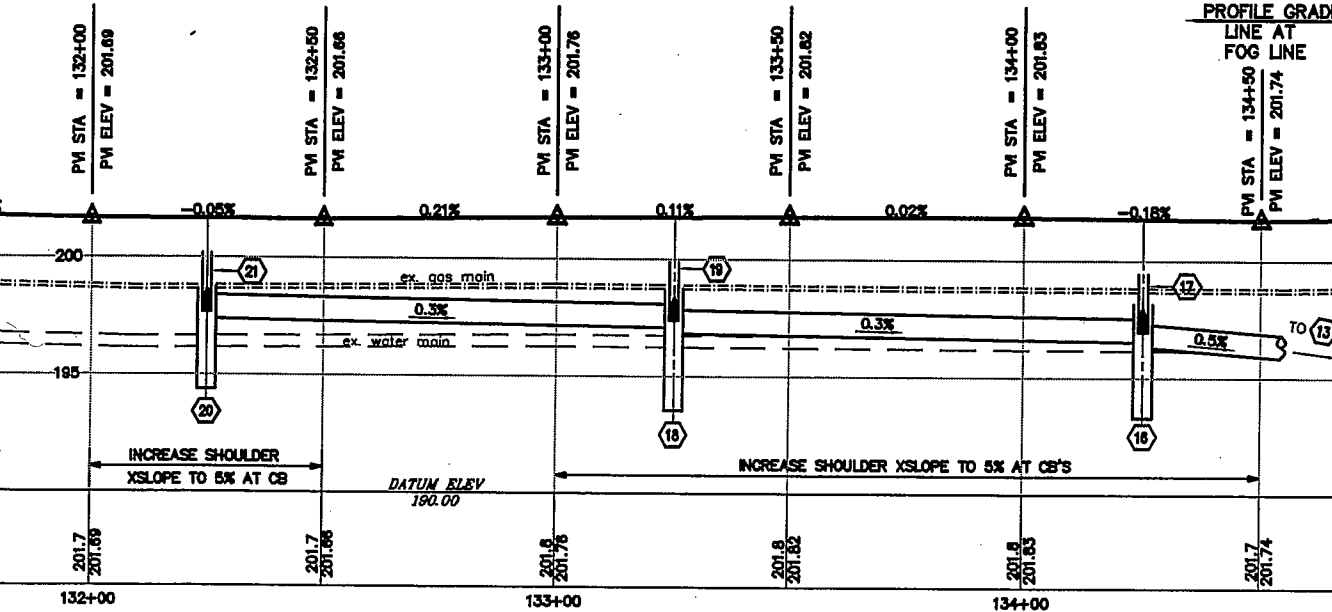
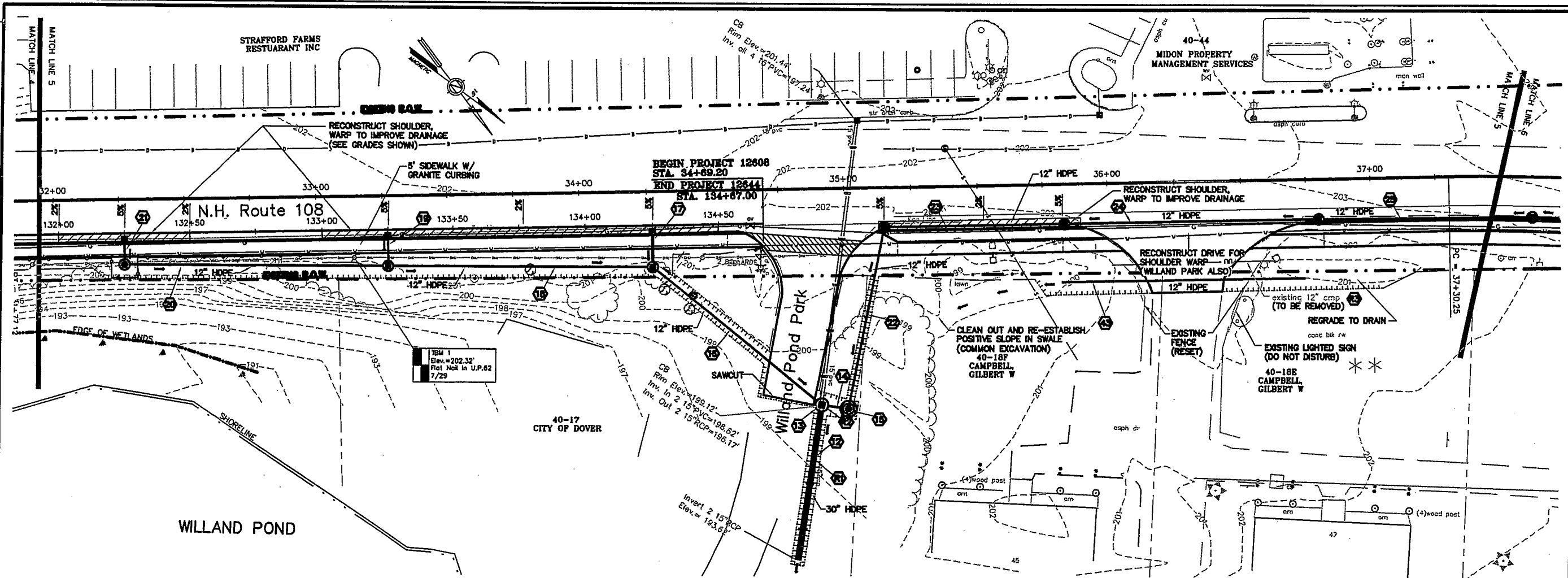


PLAN
SCALE: 1 INCH = 20 FT.



PROFILE
HORIZ: 1 INCH = 20 FT.
VERT: 1 INCH = 4 FT.

CITY OF DOVER		CITY HALL DOVER, NH 03820							
SIDEWALK PLAN AND PROFILE									
STATE PROJ. NO. 12644/12608 FED. PROJ. NO. STP-E-X-0125(010) FED. PROJ. NO. STP-X-0008(262) NEW ROCHESTER RD / LONG HILL RD DOVER, NEW HAMPSHIRE									
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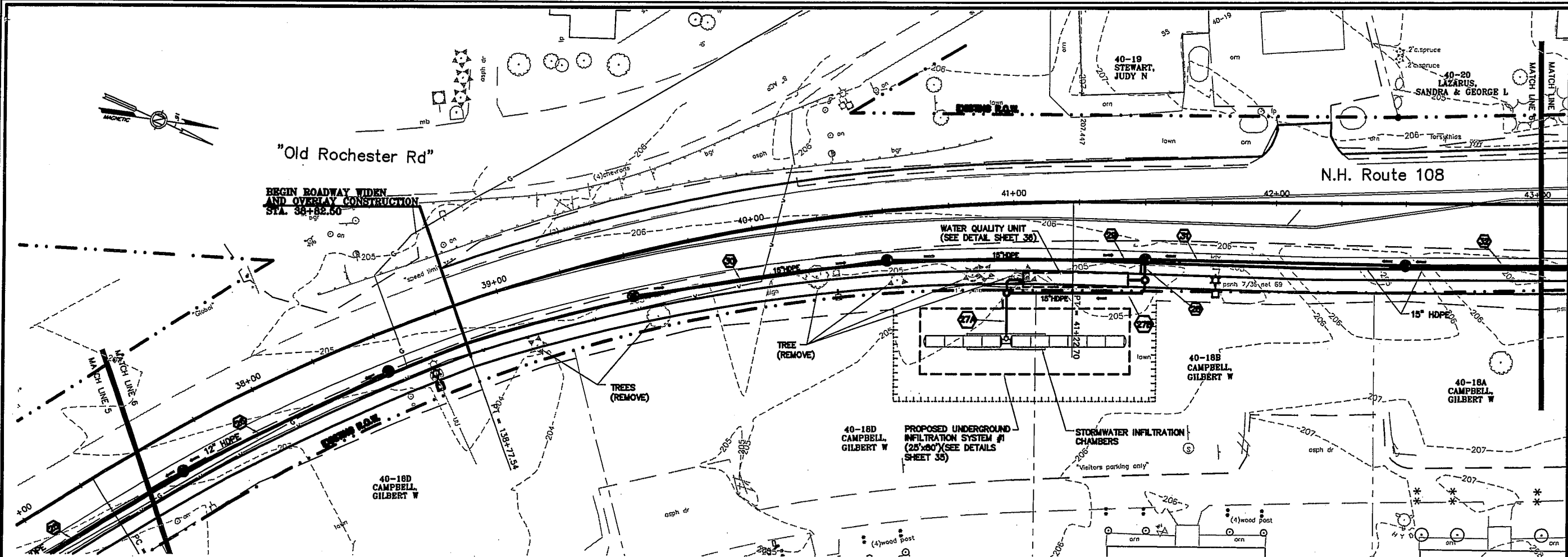
CITY OF DOVER
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DOVER, NH 03860

SIDEWALK/ROADWAY PLAN AND PROFILE

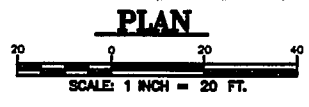
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NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

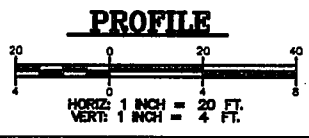
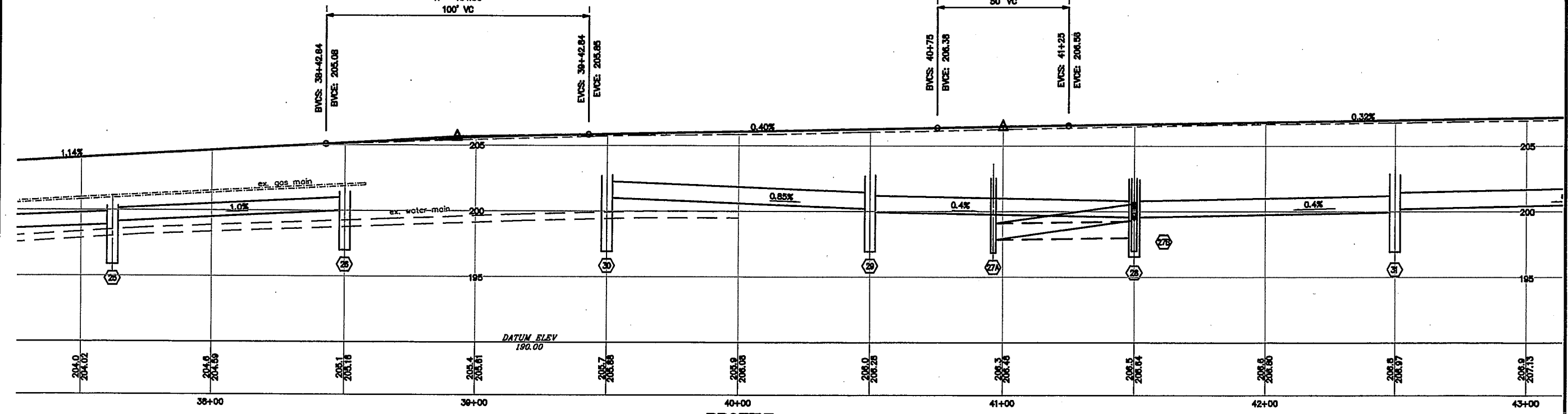
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AS NOTED	030172
DATE:	DWG.
DEC 2007	15



PM STA = 38+92.84
 PM ELEV = 205.65
 A.D. = -0.74
 K = 134.63
 100' VC



PM STA = 41+00
 PM ELEV = 206.48
 A.D. = -0.06
 K = 646.80
 50' VC



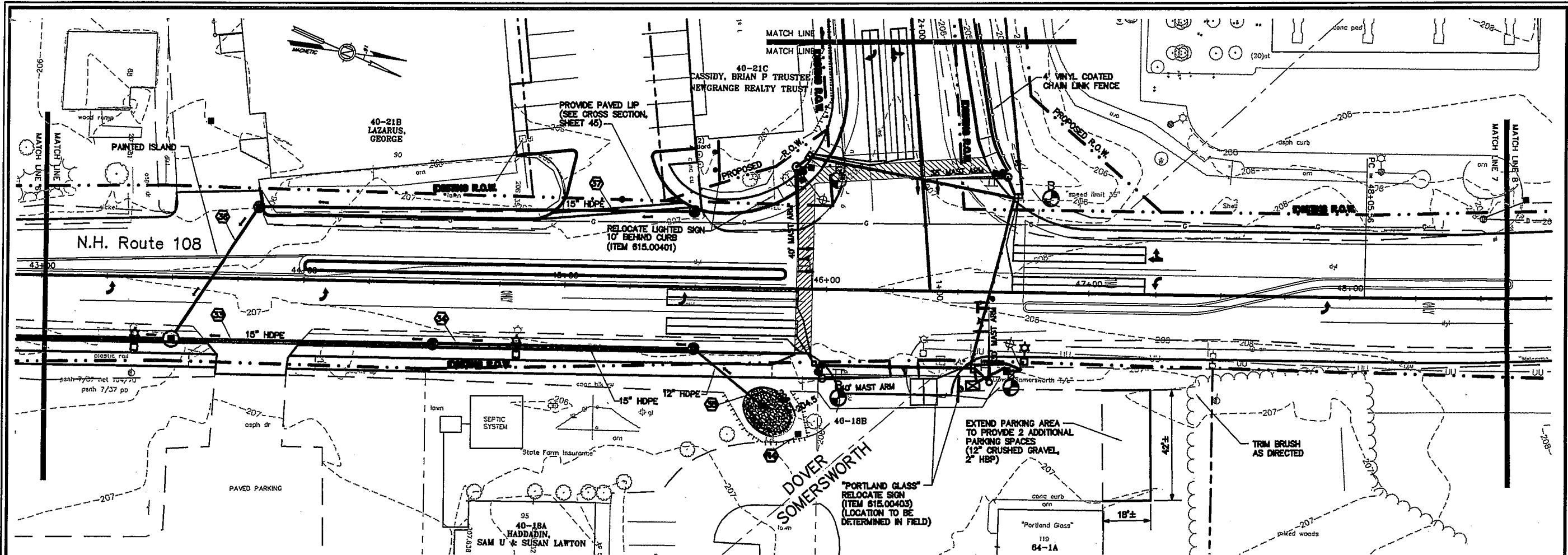
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DRAWN:					
DAD					

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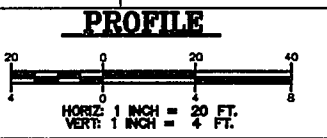
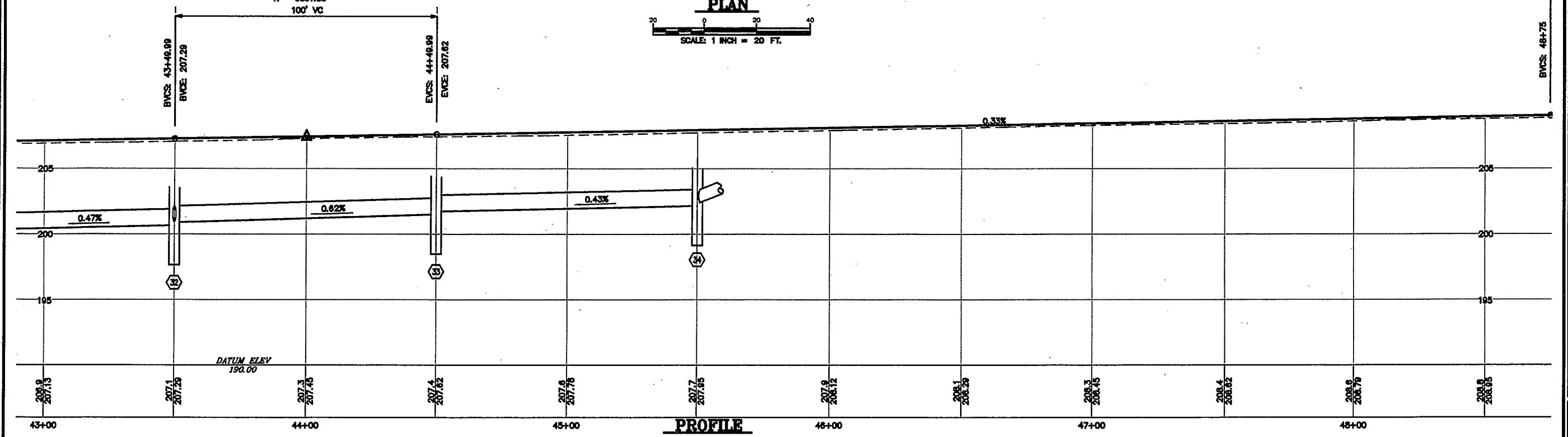
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 DOVER, NH 03820

ROADWAY PLAN AND PROFILE
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 FED. PROJ. NO. 57P-X-0002(202)
NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	080172
DATE:	DWG.
DEC 2007	16



PM STA = 43+99.99
 PM ELEV = 207.45
 A.D. = 0.01
 K = 9391.55
 100' VC



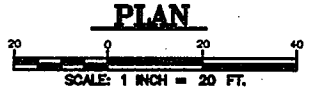
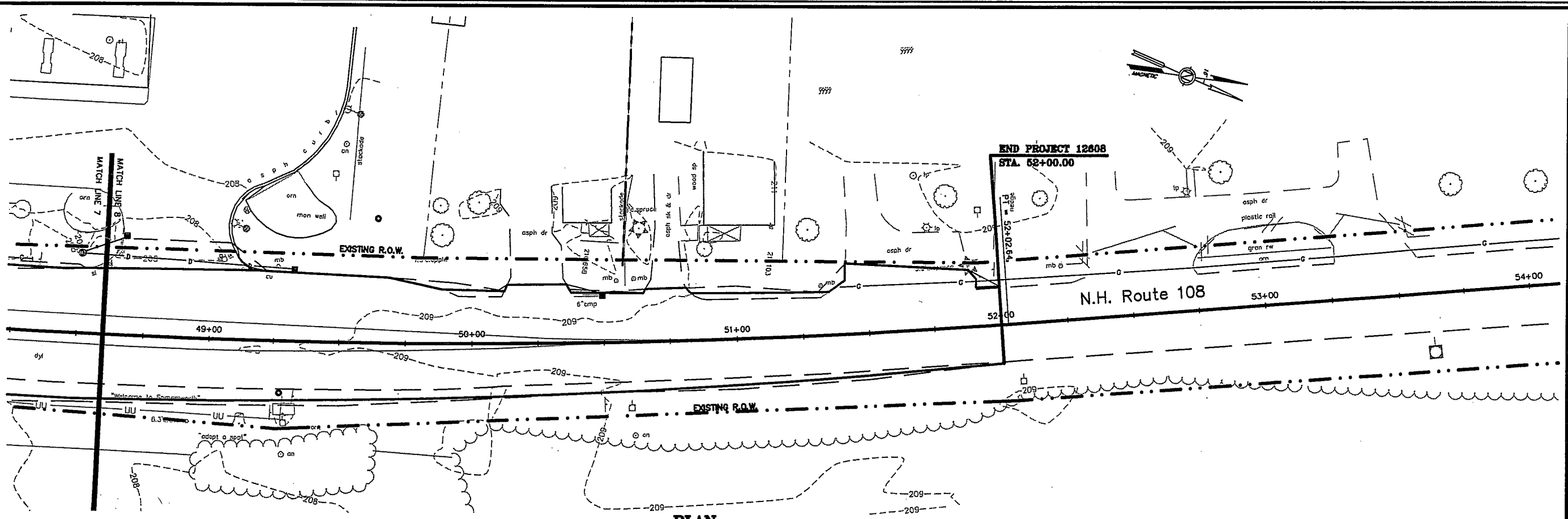
5/15/07		ADJUST LIMITS OF CONSTRUCTION (R4 & 34)
NO. DATE	REVISION	DESIGNED: <u>DAQ/ALQ</u>
DRAWN: <u>DAQ</u>	CHECKED: <u>ALQ</u>	APPROVED: <u>JF</u>

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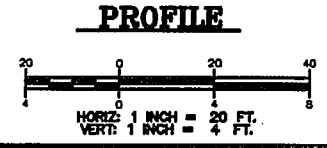
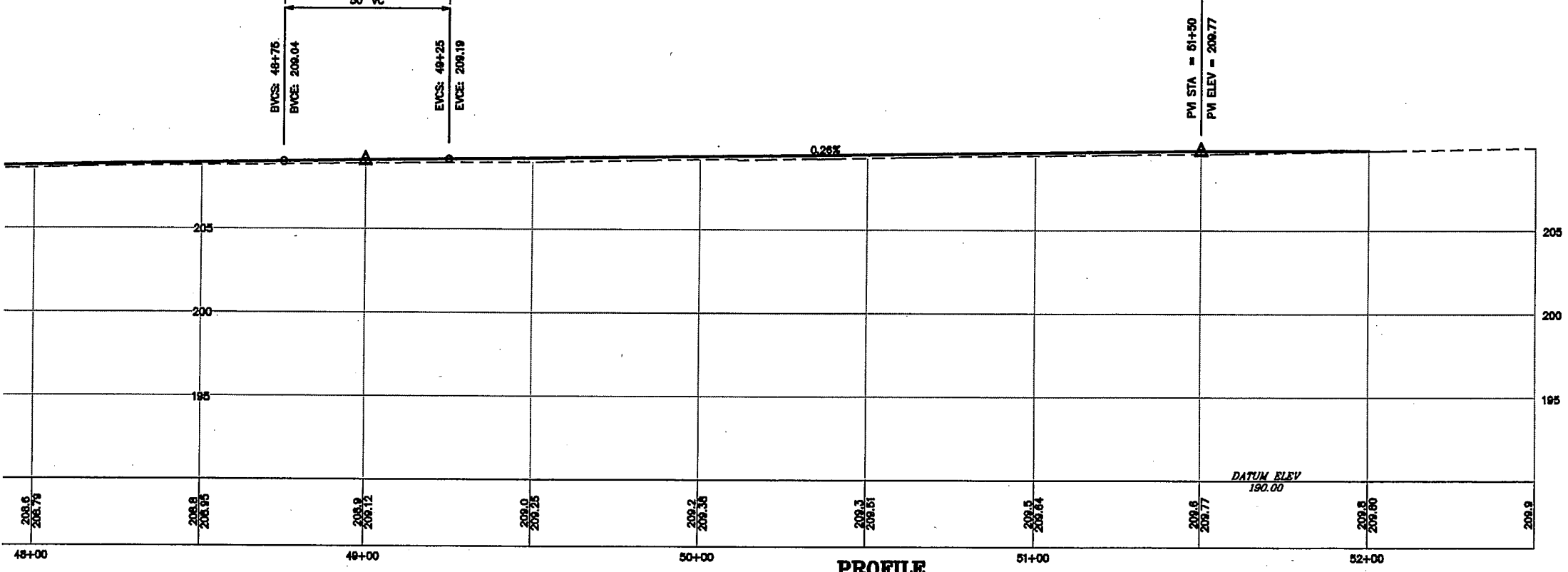
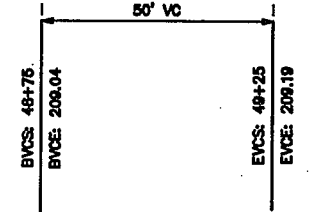
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CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

ROADWAY PLAN AND PROFILE
 STATE PROJ. NO. 12844/13008
 STATE PROJ. NO. 57P-1E-X-0028(019)
 FED. PROJ. NO. 57P-X-0028(282)
NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: AS NOTED	JOB NO. 080172
DATE: DEC 2007	DWG. 17



PVI STA = 49+00
 PM ELEV = 209.12
 A.D. = -0.07
 K = 683.68



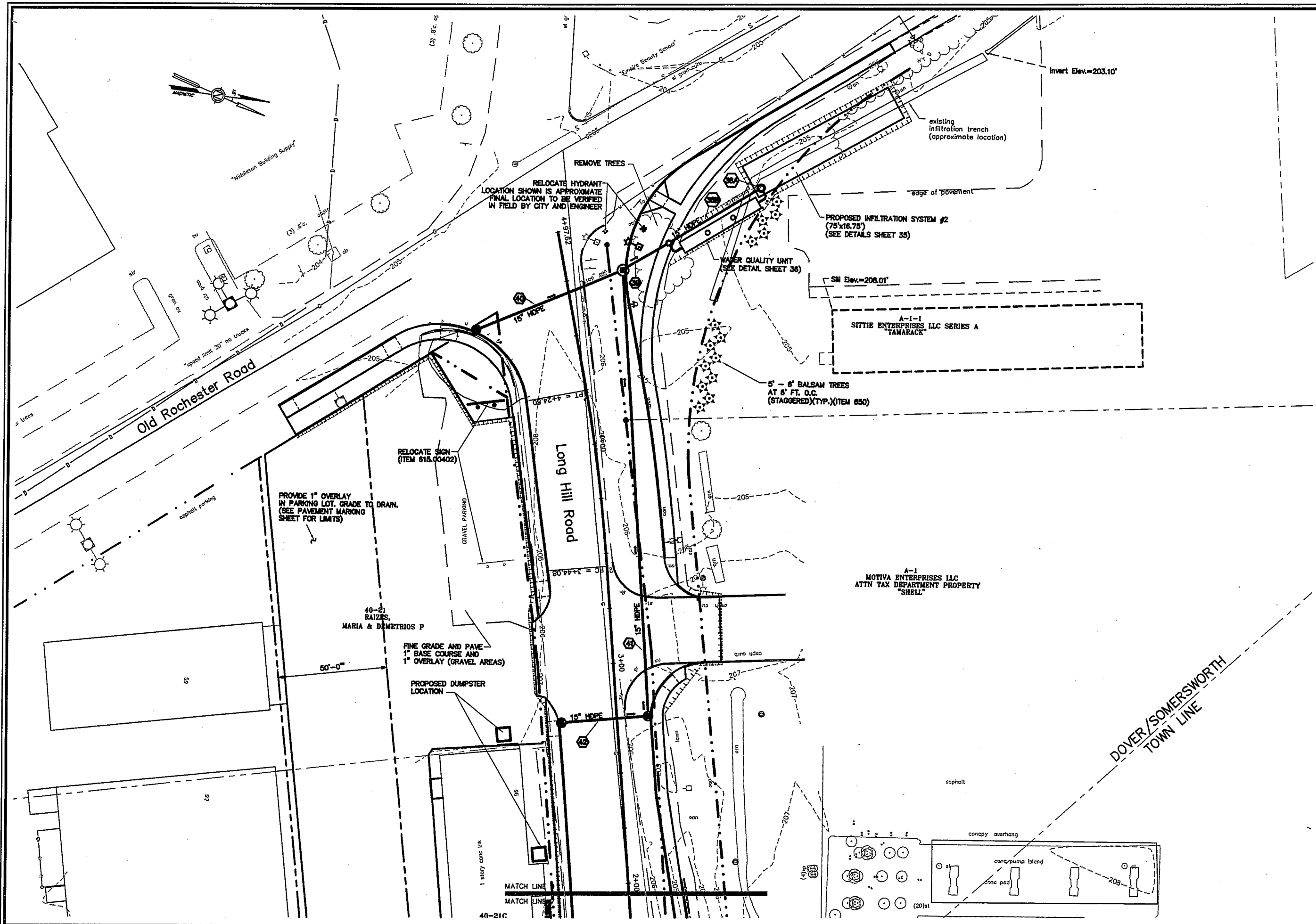
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ROADWAY PLAN AND PROFILE
 STATE PROJ. NO. 1244/12008
 FED. PROJ. NO. STP-1E-X-0126(019)
 FED. PROJ. NO. STP-X-0028(262)
NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	080172
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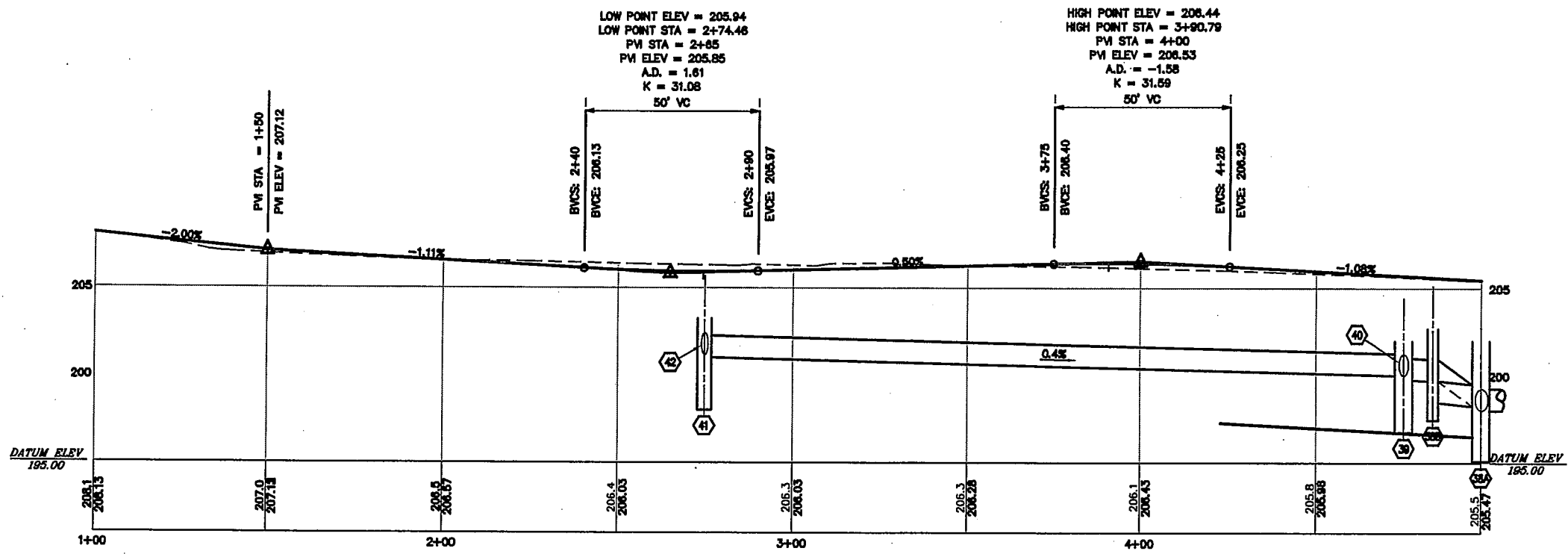
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DRAWN:					
DAW					

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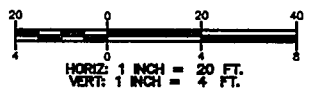
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

LONG HILL ROAD PLAN
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 FED. PROJ. NO. 57P-TE-X-0122(019)
 FED. PROJ. NO. 57P-X-0008(222)
 NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1"=20'
 DATE: DEC 2007
 JOB NO. 000172
 DWG. 10



PROFILE - LONG HILL ROAD



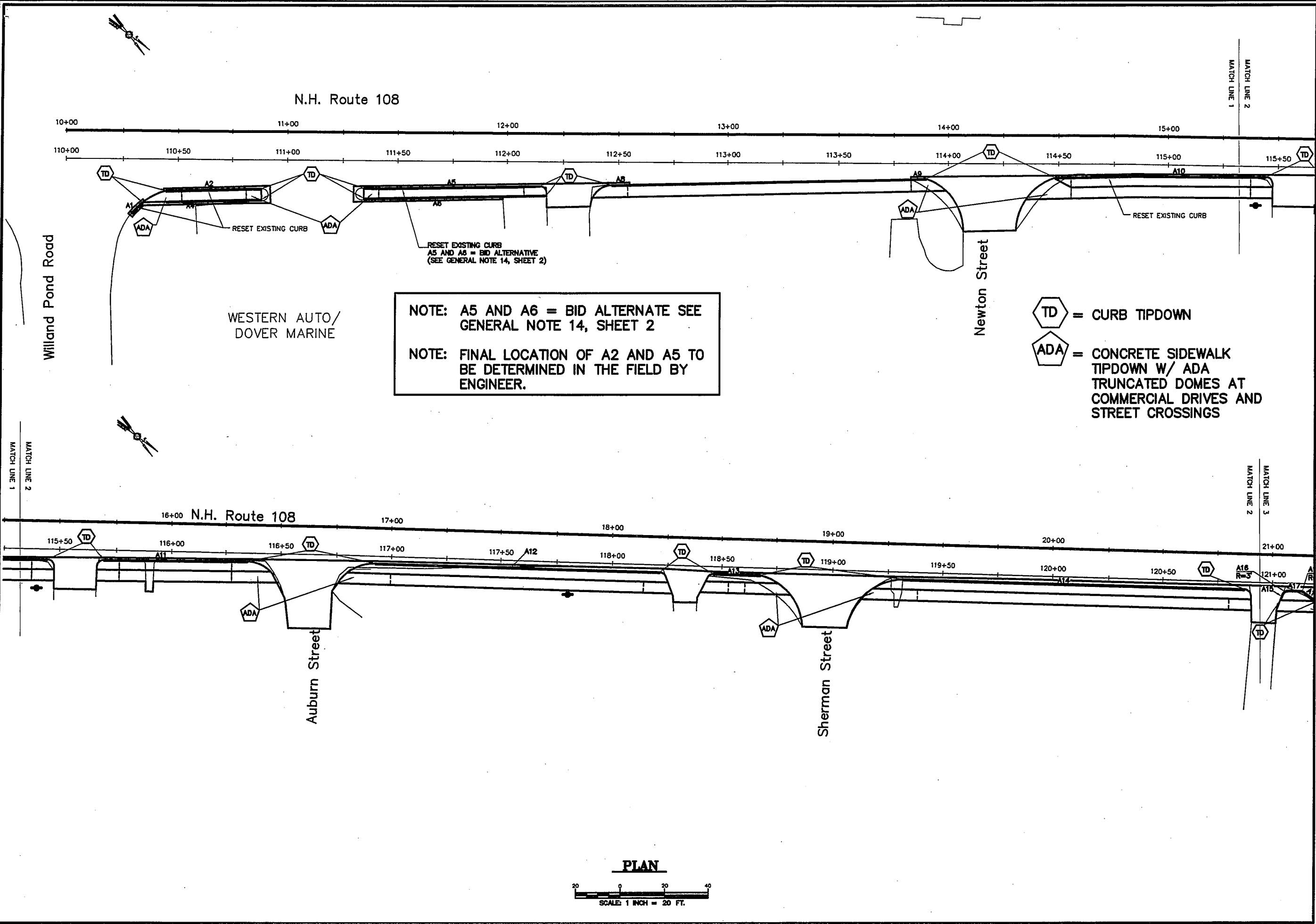
NO.	DATE	REVISION
	DAD	DAD/HLO
DRAWN:		DESIGNED:
DAD		DAD/HLO
CHECKED:		APPROVED:
JF		JF

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 (603) 885-0669 • Fax: (603) 885-3384
 ehl@delengr.com • www.delengr.com
 License # 2888 - Hampshire, Vermont

CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

LONG HILL ROAD PROFILE
 STATE PROJ. NO. 12644/12608
 FED. PROJ. NO. 517-1E-X-0126(019)
 FED. PROJ. NO. 517-1E-X-0026(262)
 NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: HORIZ: 1" = 30' VERT: 1" = 4'	JOB NO. 060172
DATE: DEC 2007	DWG. 20

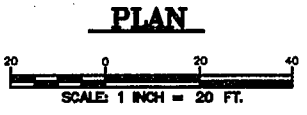


NOTE: A5 AND A6 = BID ALTERNATE SEE GENERAL NOTE 14, SHEET 2

NOTE: FINAL LOCATION OF A2 AND A5 TO BE DETERMINED IN THE FIELD BY ENGINEER.

TD = CURB TIPDOWN

ADA = CONCRETE SIDEWALK TIPDOWN W/ ADA TRUNCATED DOMES AT COMMERCIAL DRIVES AND STREET CROSSINGS



NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/MLD	JLF	JLF
DRAWN:					
DAD					

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Full Time Computer Center
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(207) 369-6699 • Fax: (207) 363-2384
eid@eidengineers.com • www.eidengineers.com
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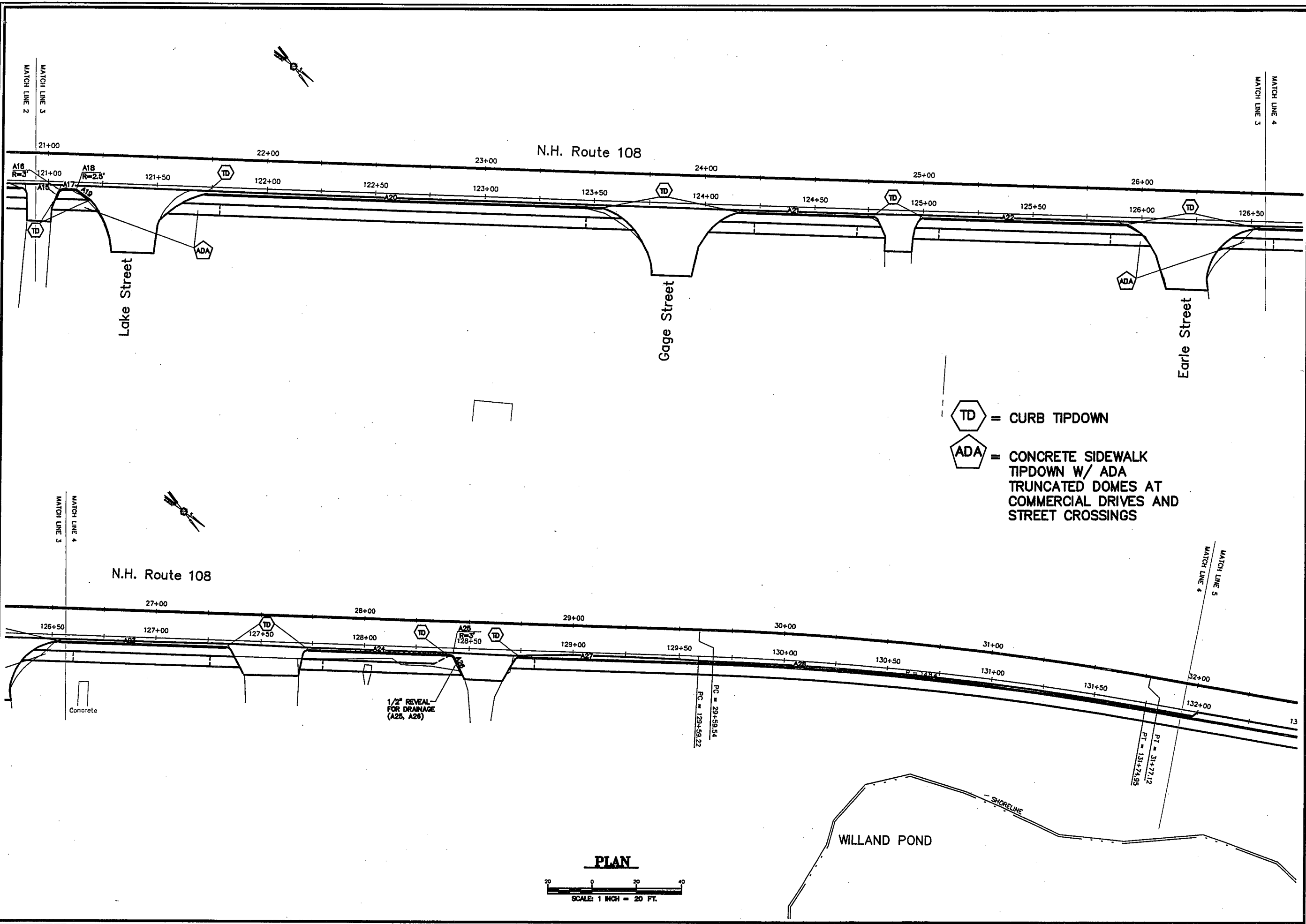
CITY OF DOVER



CITY HALL
DOVER, NH 03820

SIDEWALK CURBING & PAVEMENT LAYOUT PLAN

STATE PROJ. NO. 12844/12808
FED. PROJ. NO. 577-TE-X-0126(010)
FED. PROJ. NO. 577-X-0008(202)

SCALE:	JOB NO.
AS NOTED	060172
DATE:	DWG.
DEC 2007	21



 = CURB TIPDOWN
 = CONCRETE SIDEWALK TIPDOWN W/ ADA TRUNCATED DOMES AT COMMERCIAL DRIVES AND STREET CROSSINGS

PLAN
 SCALE: 1 INCH = 20 FT.

NO.	DATE	REVISION	CHECKED:	APPROVED:
			DAD/ALO	JF
			DAD	JF

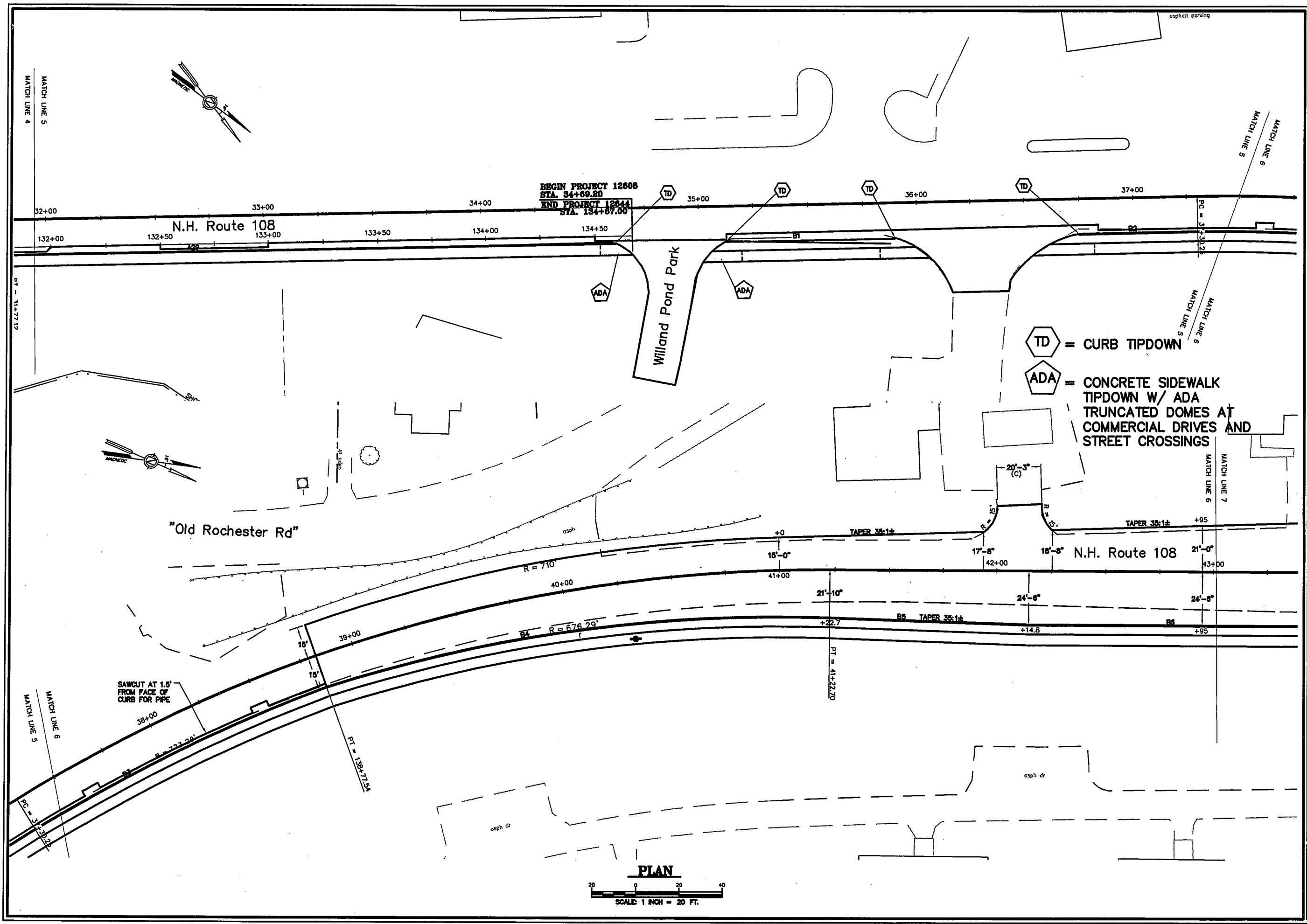
CEP
 CONSULTING ENGINEERS
 Park Place Corporate Center
 316 US Route 1, Suite D - York, ME 03909
 (207) 363-0609 • Fax: (207) 363-2384
 cep@cepengineers.com • www.cepengineers.com
 Augusta, Maine 04302-1001

CLIENT:

CITY OF DOVER
CITY HALL
DOVER, NH 03820

SIDEWALK CURBING & PAVEMENT LAYOUT
 STATE PROJ. NO. 12844/12808
 FED. PROJ. NO. 517-1E-X-0122(010)
 FED. PROJ. NO. 517-X-0005(200)

SCALE: AS NOTED
 DATE: JULY 2007
 JOB NO. 090172
 DWG. 22



BEGIN PROJECT 12608
 STA. 34+89.30
 END PROJECT 12644
 STA. 134+87.00

N.H. Route 108

Willand Pond Park

"Old Rochester Rd"

TD = CURB TIPDOWN
 ADA = CONCRETE SIDEWALK TIPDOWN W/ ADA TRUNCATED DOMES AT COMMERCIAL DRIVES AND STREET CROSSINGS

PLAN

SCALE 1 INCH = 20 FT.

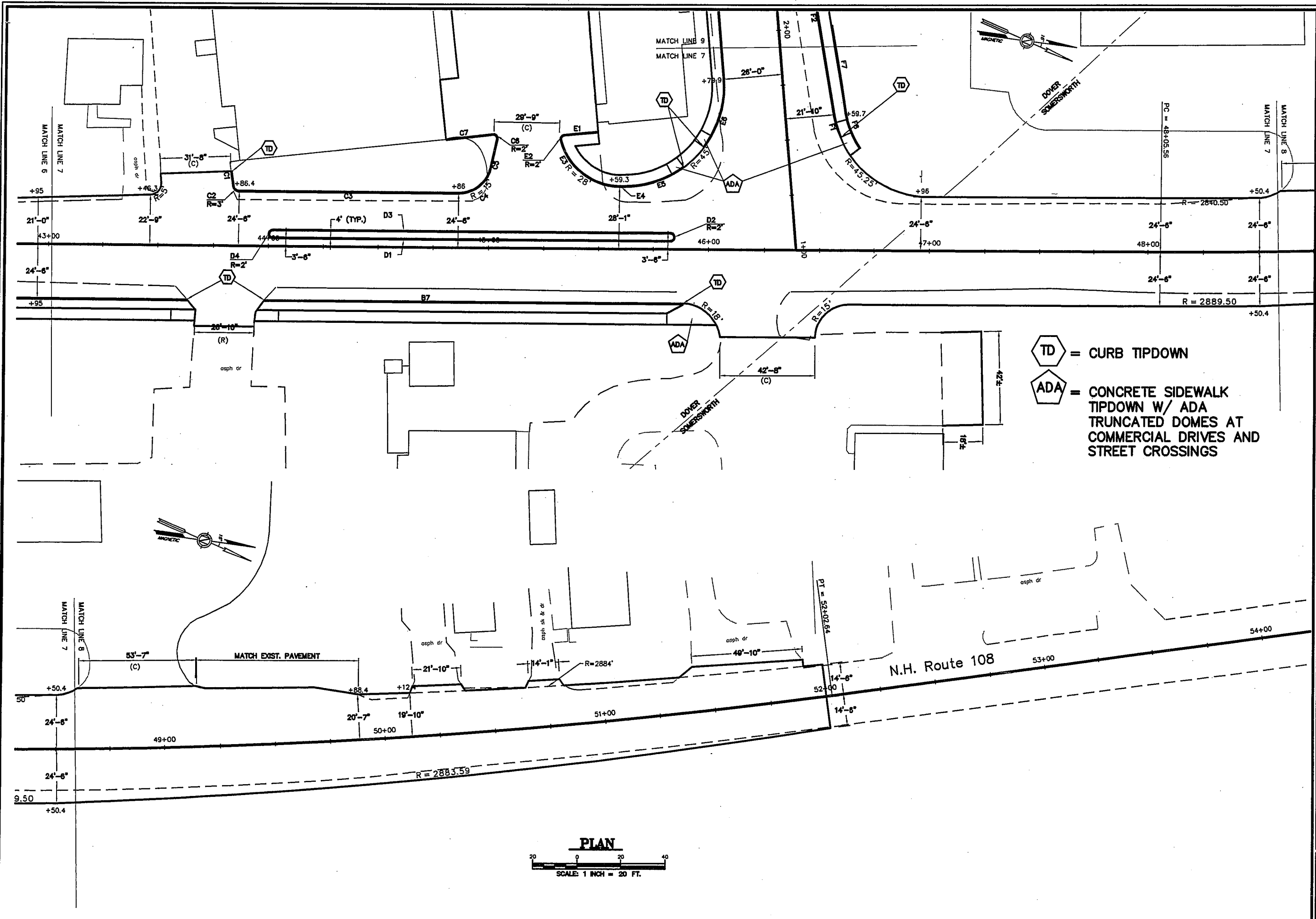
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/HLO	JF	JF
			DAD		

CLC CONSULTING ENGINEERS, Inc.
 Park Place Corporate Center
 316 US Route 1, Suite D, York, ME 03909
 (207) 363-0609 • Fax: (207) 363-2384
 clc@aldengineers.com • www.cldengineers.com
 Maine • New Hampshire • Vermont

CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

CLIENT:
ROADWAY CURBING & PAVEMENT LAYOUT
 STATE PROJ. NO. 12644/12608
 FED. PROJ. NO. STP-TE-X-6126(016)
 FED. PROJ. NO. STP-X-0005(262)

SCALE: AS NOTED	JOB NO. 080172
DATE: JULY 2007	DWG. 23



NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/ALD	JF	JF
DRAWN:					
DAD					

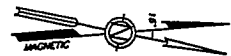
CONSULTING ENGINEERS
 Inc.
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 (207) 362-0669 • Fax: (207) 362-2384
 cel@celengineers.com • www.celengineers.com
 Maine • New Hampshire • Vermont

CITY OF DOVER
CITY HALL
DOVER, NH 03820

ROADWAY CURBING & PAVEMENT LAYOUT
 STATE PROJ. NO. 1244/12508
 FED. PROJ. NO. 517-1E-X-0126(010)
 FED. PROJ. NO. 517-X-0005(202)

CLIENT: **CITY OF DOVER**

SCALE:	JOB NO.
AS NOTED	000172
DATE:	DWG. NO.
JULY 2007	24



Old Rochester Road

Long Hill Road

COLD PLANE LIMITS (TYP.)

PROVIDE 1" OVERLAY
IN PARKING LOT
(SEE PAVEMENT MARKING
SHEET FOR LIMITS)

FINE GRADE AND PAVE
1" BASE COURSE AND
1" OVERLAY (GRAVEL AREAS)

REMNANTS OF STEEL SUPPORT POSTS
TO BE REMOVED TO DEPTH OF COLD
PLANE (SUBSIDIARY)

TD = CURB TIPDOWN

ADA = CONCRETE SIDEWALK
TIPDOWN W/ ADA
TRUNCATED DOMES AT
COMMERCIAL DRIVES AND
STREET CROSSINGS



MATCH LINE 9

MATCH LINE 7

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/ALO	JF	JF
DRAWN:					
DAD					

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ENGINEERS
Inc.

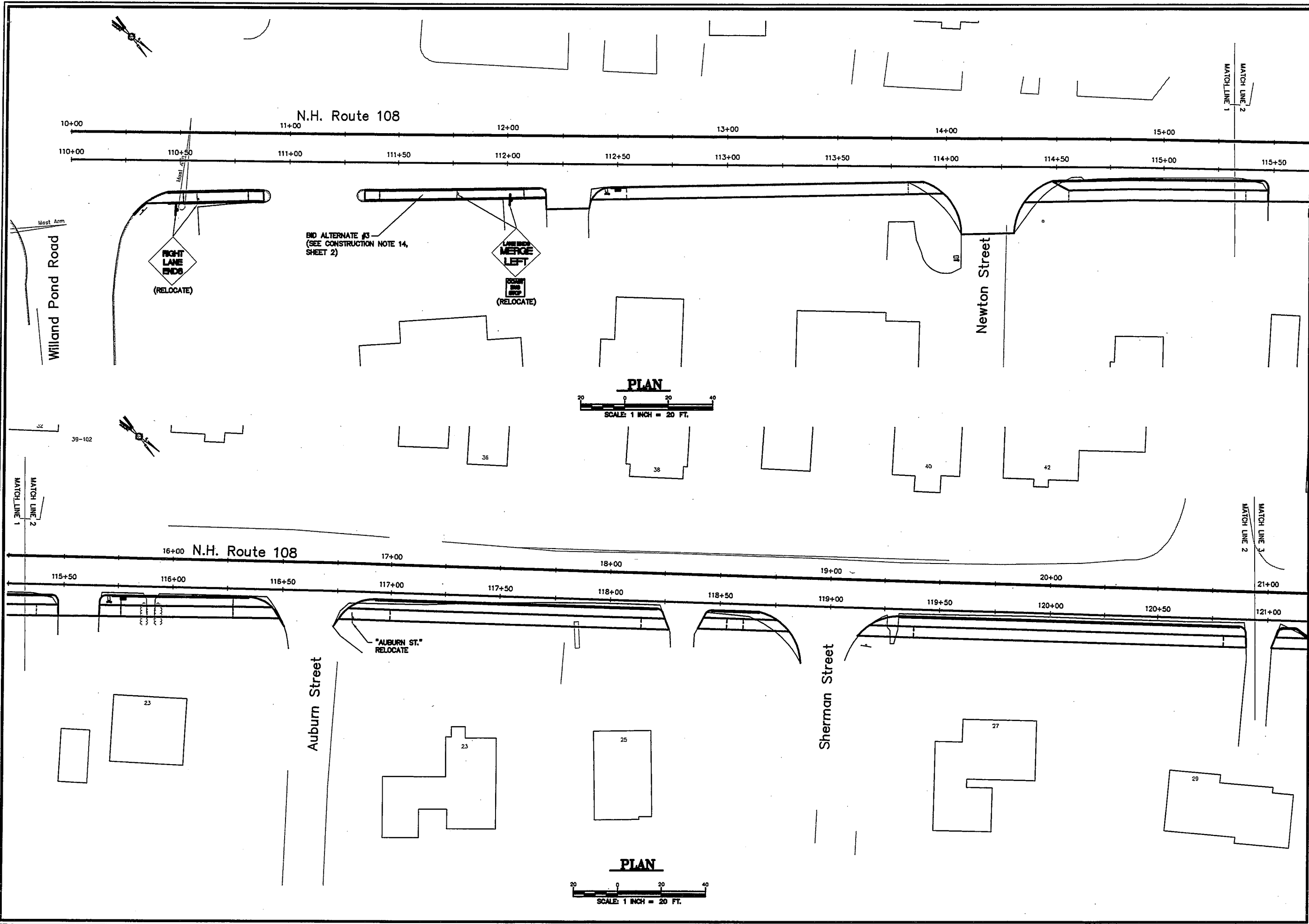
Park Place Corporate Center
316 US Route 1, Suite D, York, ME 03909
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Meriden • New Hampshire • Vermont

CITY OF DOVER
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DOVER, NH 03820

**ROADWAY CURBING &
PAVEMENT LAYOUT**


STATE PROJ. NO. 1244/12806
FED. PROJ. NO. 517-1E-X-0122(019)
FED. PROJ. NO. 517-X-0002(202)

SCALE: AS NOTED	JOB NO. 080172
DATE: JULY 2007	DWG. 25



BID ALTERNATE #3
(SEE CONSTRUCTION NOTE 14,
SHEET 2)

	NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
				DAD/ALO	ALF	ALF
				DAD		



CLEP
CONSULTING ENGINEERS, Inc.

316 US Route 1, Suite D - York, ME 03909
(207) 363-0669 - Fax: (207) 363-2384
clep@clepengineers.com - www.clepengineers.com
Auburn, Maine, Massachusetts, Vermont

CITY OF DOVER

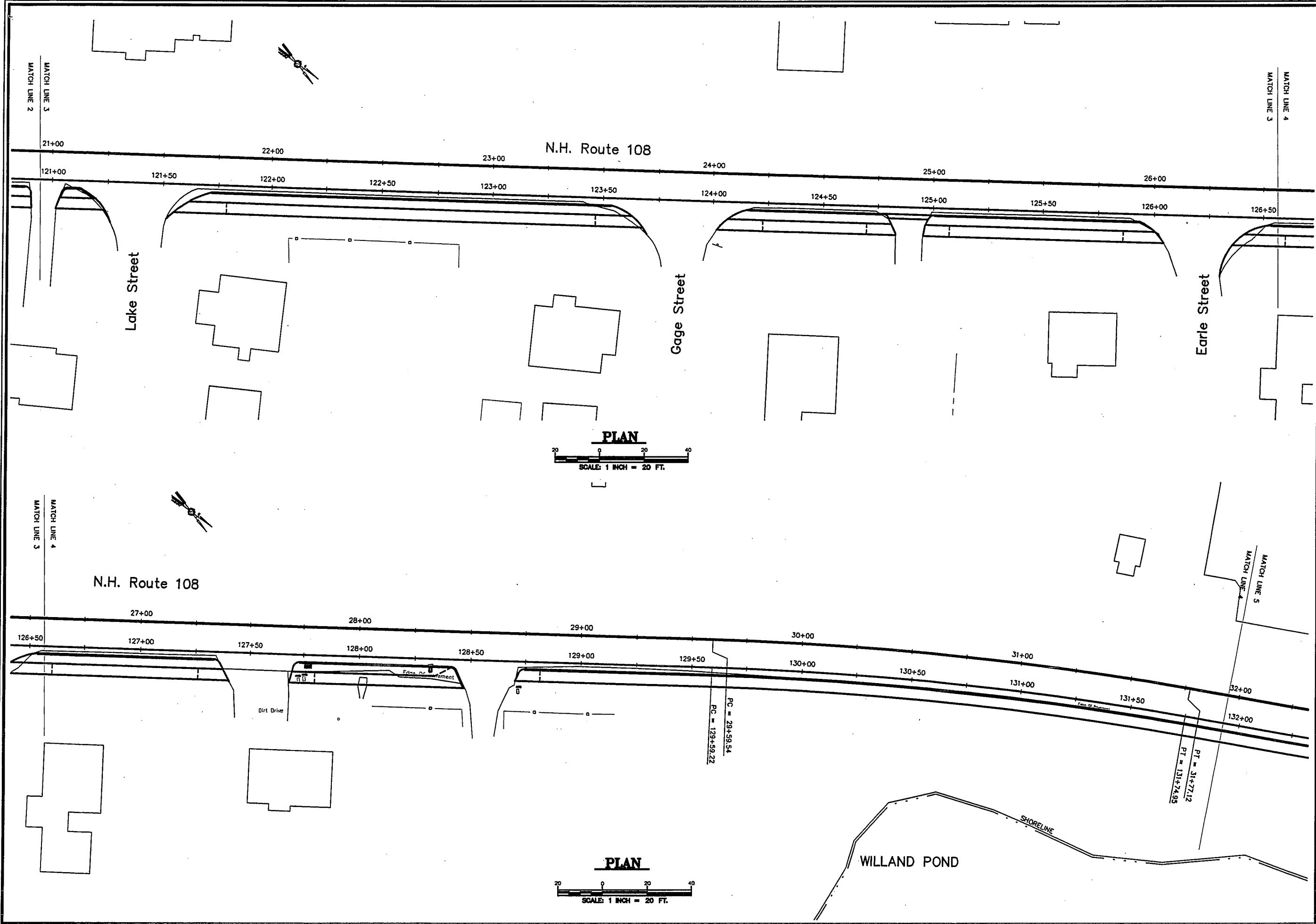
CITY HALL
DOVER, NH 03820

PAVEMENT MARKING & SIGNING LAYOUT

STATE PROJ. NO. 12844/12808
FED. PROJ. NO. STP-1E-X-0122(016)
FED. PROJ. NO. STP-X-0005(202)

NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE: AS NOTED	JOB NO. 030172
DATE: JULY 2007	DWG. 26



PLAN
SCALE: 1 INCH = 20 FT.

PLAN
SCALE: 1 INCH = 20 FT.

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/ALC	JF	JF
DRAWN:			DAD		

CEI CONSULTING ENGINEERS, Inc.
 316 US Route 1, Suite D - York, ME 03909
 (207) 365-0669 • Fax: (207) 363-2384
 ceie@ceiengineers.com • www.ceiengineers.com

CITY OF DOVER
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DOVER, NH 03820

PAVEMENT MARKING & SIGNING LAYOUT
 STATE PROJ. NO. 12644/12606
 FED. PROJ. NO. STP-12-X-0122(016)
 FED. PROJ. NO. STP-X-0005(360)
NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	000172
DATE:	DWG.
JULY 2007	27

GENERAL PAVEMENT MARKING NOTE:
 PLACEMENT AND COLOR OF PAVEMENT MARKING LINES, SYMBOLS, AND WORDS SHALL CONFORM TO THE (MUTCD), SECTION 632 OF NHDOT STANDARD SPECIFICATION BOOK. CONTRACT SUPPLEMENTAL SPECIFICATIONS, THE STATE OF NEW HAMPSHIRE PAVEMENT MARKING STANDARD DETAIL SHEETS, AND STANDARD PLAN SHEETS.

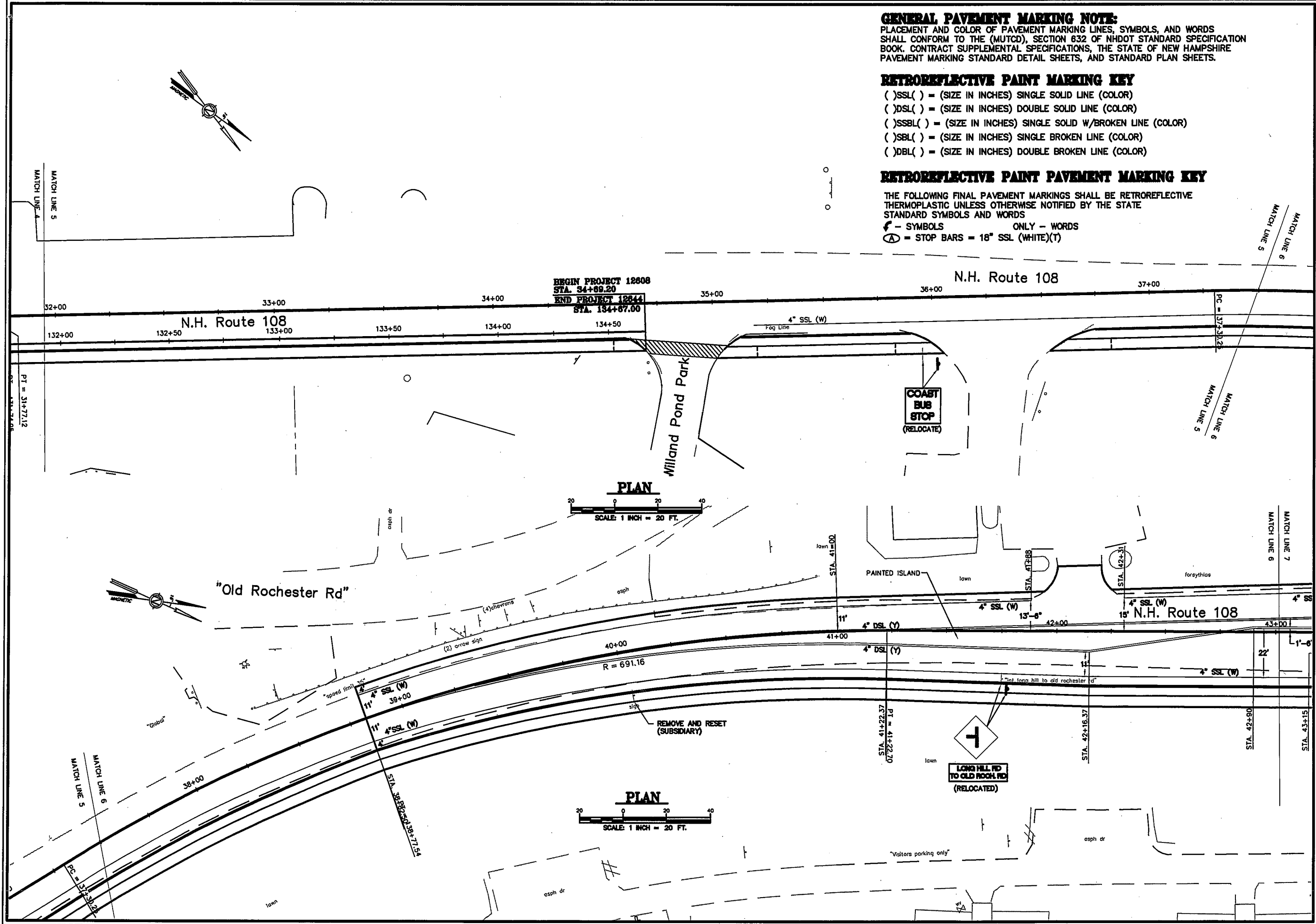
RETROREFLECTIVE PAINT MARKING KEY

- ()SSL() = (SIZE IN INCHES) SINGLE SOLID LINE (COLOR)
- ()DSL() = (SIZE IN INCHES) DOUBLE SOLID LINE (COLOR)
- ()SSBL() = (SIZE IN INCHES) SINGLE SOLID W/BROKEN LINE (COLOR)
- ()SBL() = (SIZE IN INCHES) SINGLE BROKEN LINE (COLOR)
- ()DBL() = (SIZE IN INCHES) DOUBLE BROKEN LINE (COLOR)

RETROREFLECTIVE PAINT PAVEMENT MARKING KEY

THE FOLLOWING FINAL PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE THERMOPLASTIC UNLESS OTHERWISE NOTIFIED BY THE STATE STANDARD SYMBOLS AND WORDS

- ⤴ - SYMBOLS ONLY - WORDS
- ⊠ - STOP BARS = 18" SSL (WHITE)(T)



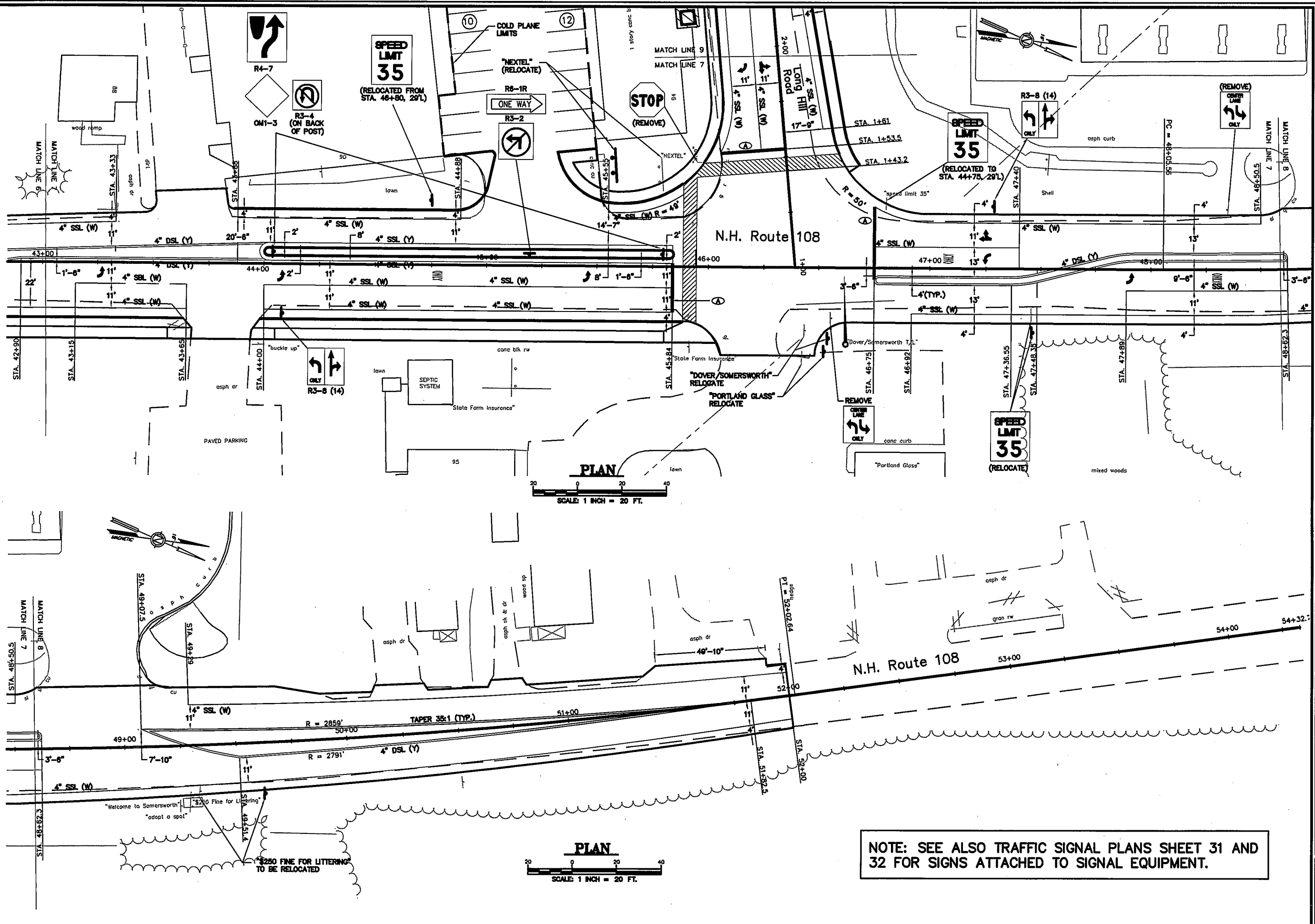
NO.	DATE	REVISION	APPROVED:
			JF
		DESIGNED:	JF
		DRAWN:	JF
		DAD/ALO	

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 cel@delightengineers.com • www.delightengineers.com
 York, Maine • Maine, Massachusetts, Vermont

CITY OF DOVER
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DOVER, NH 03820

CLIENT:
PAVEMENT MARKING & SIGNING LAYOUT
 STATE PROJ. NO. 12644/12608
 FED. PROJ. NO. 51P-TE-X-0122(010)
 FED. PROJ. NO. 51P-X-0002(262)
NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	000172
DATE:	DWG.
JULY 2007	28



PLAN
SCALE: 1 INCH = 20 FT.

PLAN
SCALE: 1 INCH = 20 FT.

NOTE: SEE ALSO TRAFFIC SIGNAL PLANS SHEET 31 AND 32 FOR SIGNS ATTACHED TO SIGNAL EQUIPMENT.

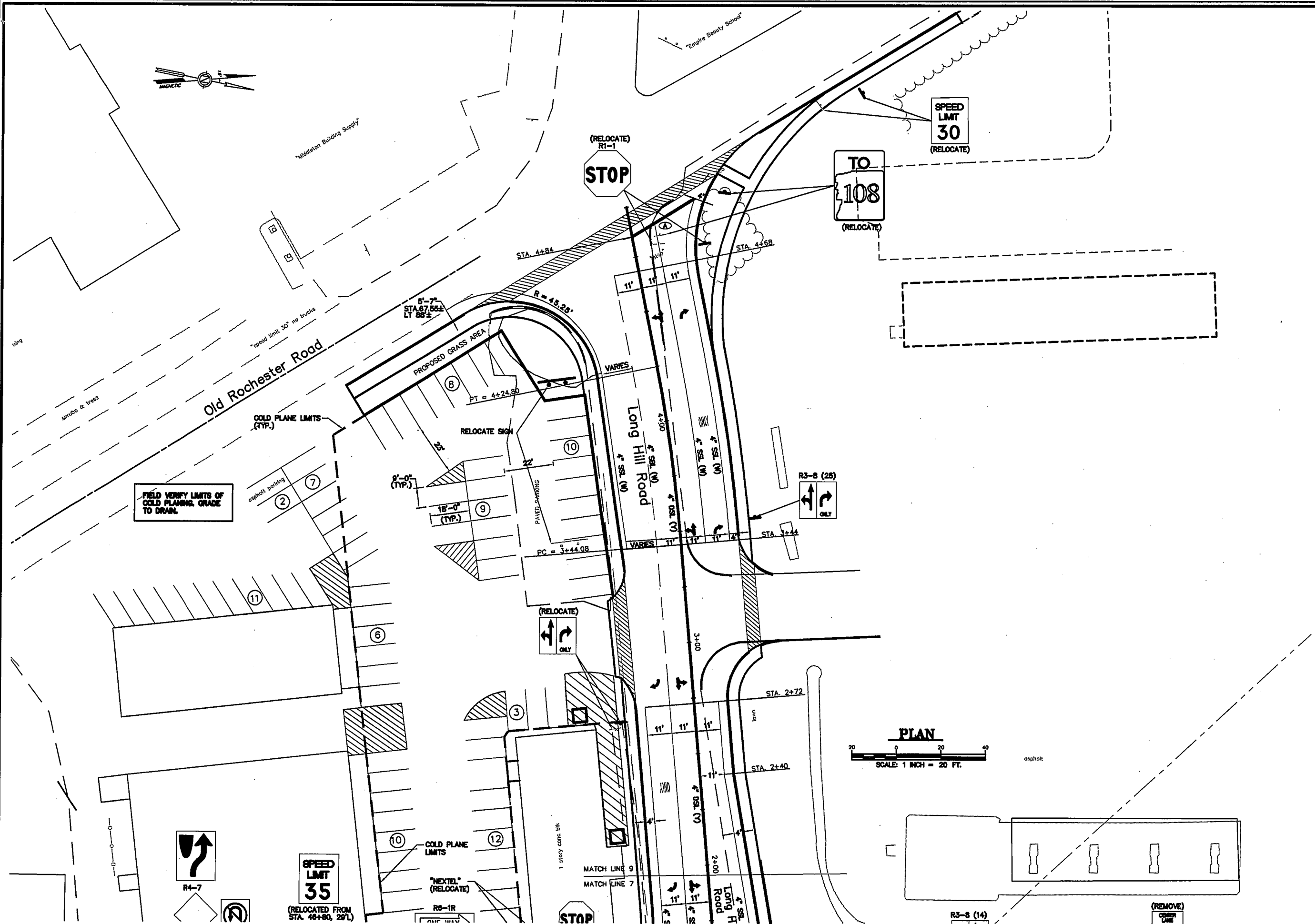
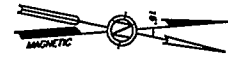
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD	JF	JF

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 cel@cdengineering.com • www.cdengineers.com
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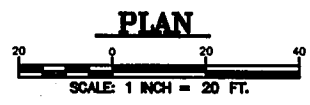
CITY OF DOVER
CITY HALL
DOVER, NH 03820

PAVEMENT MARKING & SIGNING LAYOUT
 STATE PROJ. NO. 12844/12808
 FED. PROJ. NO. STP-12-X-0122(010)
 FED. PROJ. NO. STP-12-X-0025(202)
NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
AS NOTED	080172
DATE:	DWG.
JULY 2007	29



FIELD VERIFY LIMITS OF COLD PLANING GRADE TO DRAIN.



PLAN

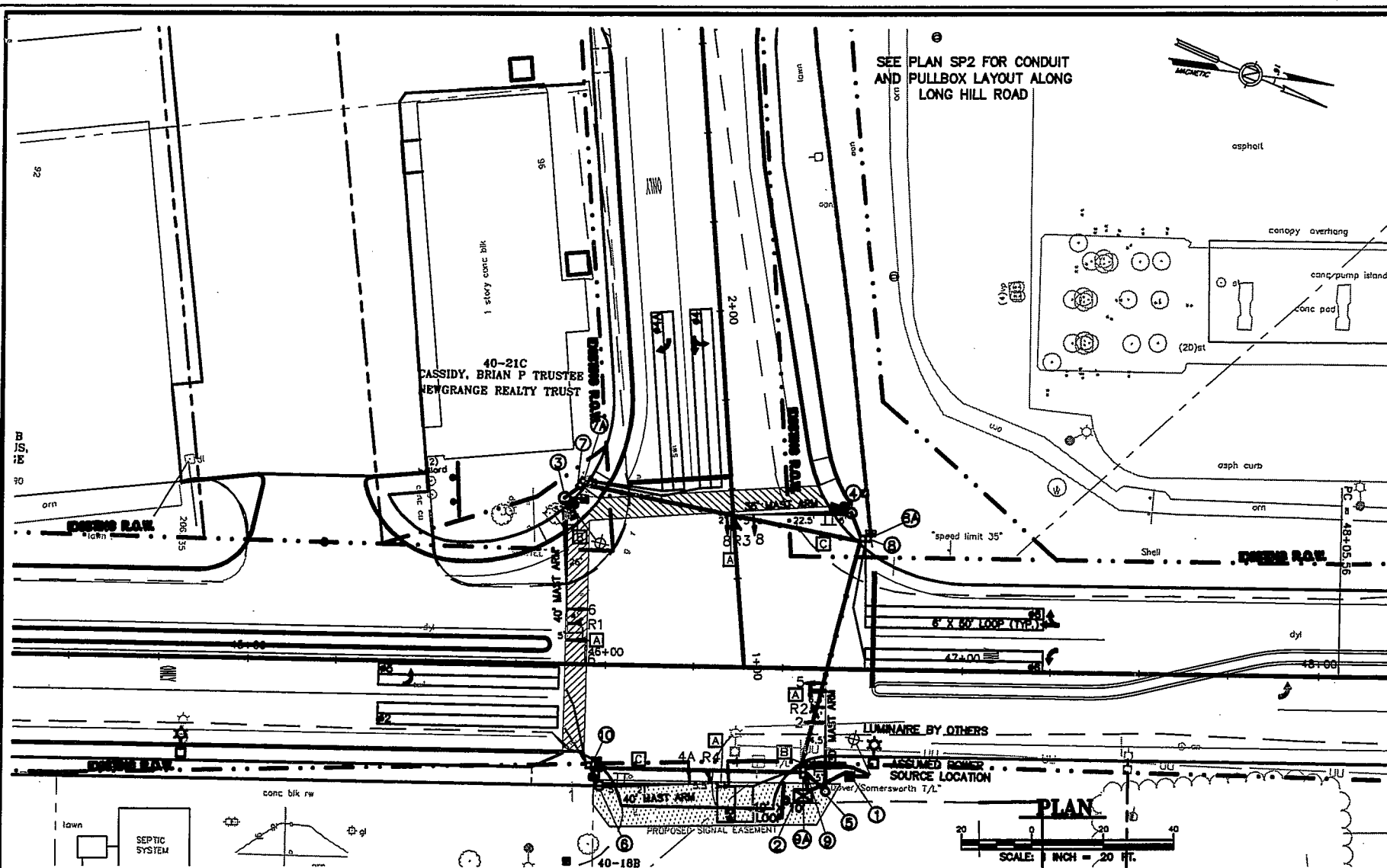
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD/AEO	JF	JF
			DAD		

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 DOVER, NH 03820

PAVEMENT MARKING & SIGNING LAYOUT
 STATE PROJ. NO. 12644/12608
 FED. PROJ. NO. STP-TE-V-0126(016)
 FED. PROJ. NO. STP-V-0002(262)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

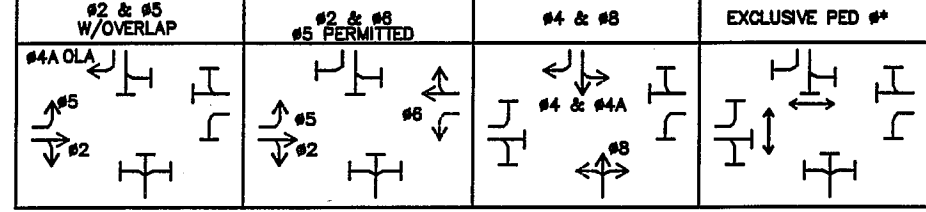
SCALE:	JOB NO.
AS NOTED	080172
DATE:	DWG.
JULY 2007	30



NOTES

- DIGSAFE TO BE CONTACTED BEFORE COMMENCING ANY CONSTRUCTION, COORDINATION WITH UTILITY COMPANIES REQUIRED.
- FOUNDATIONS FOR ALL SIGNAL POLES SHALL BE INSTALLED PER NHDOT STANDARD DETAILS.
- ALL SIGNAL EQUIPMENT SHALL BE INSTALLED PER **MUTCD 2003 EDITION** STANDARDS AND THE NH STANDARD SPECIFICATIONS 2006, OR AS AMENDED IN THE SPECIAL PROVISIONS.
- PUBLIC SERVICE OF NEW HAMPSHIRE TO BE CONTACTED REGARDING POWER SUPPLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND SERVICE CONNECTION CHARGES.
- THE LOCATIONS OF ALL EQUIPMENT SHOWN ARE APPROXIMATE, FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD.
- LOOPS TO OPERATE IN "PRESENCE" AND "NON-LOCK" MODES.
- THE CONTRACTOR SHALL COORDINATE ALL SIGNALIZATION WORK WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION AND THE CITY OF DOVER DPW.
- SIGNAL TIMING IS PRELIMINARY AND IS TO BE ADJUSTED AS NECESSARY IN THE FIELD IN CONSULTATION WITH THE ENGINEER.
- MISCELLANEOUS WIRE, DUCT, CABLE, LABOR AND EQUIPMENT (NOT SHOWN) NECESSARY TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL, AS SHOWN, ARE REQUIRED (PAYMENT TO BE INCIDENTAL TO ITEM 616.1).
- ALL LOOP WIRES TO BE BROUGHT BACK TO THE CONTROLLER ON SEPARATE LEAD-IN CABLES. LOOP WIRES SHALL BE INSTALLED AFTER MILLING OPERATIONS AND PRIOR TO WEARING COURSE AND/OR OVERLAY.
- CONTRACTOR SHALL PROVIDE POLICE CONTROL FOR THE INTERSECTION DURING CONSTRUCTION.
- EMERGENCY PRE-EMPTION SHALL OCCUR WITH ASSOCIATED PHASES AS FOLLOWS:
 PRE-EMPTION RECEIVER R1 CALLS PHASE 6
 PRE-EMPTION RECEIVER R2 CALLS PHASES 2+5
 PRE-EMPTION RECEIVER R3 CALLS PHASE 8
 PRE-EMPTION RECEIVER R4 CALLS PHASE 4

STANDARD NEMA SEQUENTIAL PHASING



FOUNDATIONS

FOUNDATION	LOC.	TYPE	STATION	OFFSET	NOTES
(1)	MP	48+70	30'	RT	PROPOSED METER PEDESTAL
(2)	CC	48+58	36'	RT	CONTROLLER CABINET ON CONCRETE FOUNDATION & EXTENSION W/PAD
(3)	MA	1+51	47'	LT	SIGNAL POLE W/40' M.A. W/2 PED HEADS & PUSHBUTTON ASSEMBLY AND LUMINAIRE
(4)	MA	1+41	33'	RT	SIGNAL POLE W/35' M.A. W/1 PED HEAD & PUSHBUTTON ASSEMBLY
(5)	MA	48+63	34'	RT	SIGNAL POLE W/30' M.A.
(6)	MA	45+97	35'	RT	SIGNAL POLE W/40' M.A. W/1 PED HEAD & PUSHBUTTON ASSEMBLY
(7)	PB	1+54	44'	LT	PROPOSED CONCRETE PULLBOX, 14"
(7A)	PB	1+54	44'	LT	PROPOSED MOLDED PULLBOX, 17"x30"
(8)	PB	1+33	38'	RT	PROPOSED CONCRETE PULLBOX, 14"
(8A)	PB	1+33	38'	RT	PROPOSED MOLDED PULLBOX, 17"x30"
(9)	PB	48+58	29'	RT	PROPOSED CONCRETE PULLBOX, 14"
(9A)	PB	48+58	29'	RT	PROPOSED MOLDED PULLBOX, 17"x30"
(10)	PB	45+98	28'	RT	PROPOSED CONCRETE PULLBOX, 14"
(12)	PB	2+88	32'	RT	PROPOSED CONCRETE PULLBOX, 14"
(13)	PB	3+35	28'	RT	PROPOSED CONCRETE PULLBOX, 14"
(14)	PB	4+83	38'	RT	PROPOSED CONCRETE PULLBOX, 14"
(15)	PB	4+59	68'	LT	PROPOSED CONCRETE PULLBOX, 14"

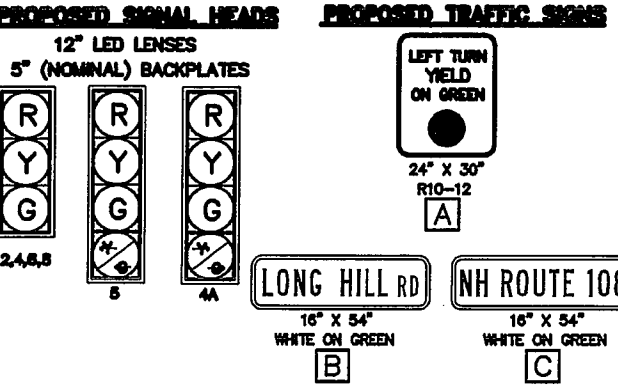
CONDUIT LENGTHS (3" MIN.)

FROM	TO	SCHED. 40	SCHED. 80
POWER (1)	TO BE DETERMINED IN FIELD BASED ON POWER SOURCE LOCATION		
POWER (2A)	TO BE DETERMINED IN FIELD BASED ON POWER SOURCE LOCATION		
(1)	(2)	10'	
(2)	(8)	5'	
(8)	(12)	150'	
(3)	(7A)	5'	
(4)	(8A)	5'	
(5)	(10)	5'	
(6)	(10)	5'	
(7A)	(8A)		86'
(8A)	(9A)		72'
(9)	(10)		85'
(12)	(13)		54'
(13)	(14)	154'	
(14)	(15)		114'

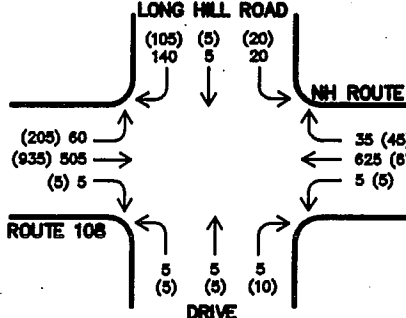
*2-DUCT CONDUIT RUN

PEDESTRIAN HEADS

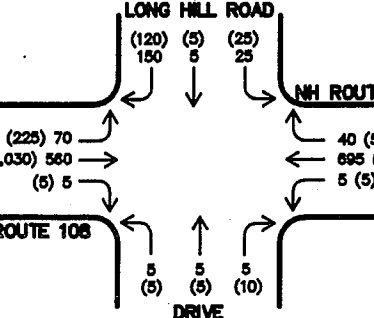
NEW 12" LED FILLED SYMBOLIC, BIMODAL SIGNAL TO BE MOUNTED ON (3), (4) & (5) AT 7' HEIGHT FACING CROSSWALK



OPENING YEAR TRAFFIC VOLUMES



DESIGN YEAR TRAFFIC VOLUMES



XXX - 2006 AM PEAK HOUR VOLUMES
 (XXX) - 2006 PM PEAK HOUR VOLUMES

XXX - 2016 AM PEAK HOUR VOLUMES
 (XXX) - 2016 PM PEAK HOUR VOLUMES

SIGNAL PHASING

(ALL ENTRIES BELOW ARE IN SECONDS)

PHASE	#2	#4	#5	#6	#8	PED
MIN. GREEN	10	5	5	10	5	-
PASSAGE	3	3	3	3	3	-
MAX. 1	60	15	15	60	15	-
MAX. 2	70	15	20	70	15	-
YELLOW	4	3	3	4	3	-
RED	2	2	2	2	2	-
RECALL	SOFT	NONE	NONE	SOFT	NONE	PED
WALK	-	-	-	-	-	7
CLEAR	-	-	-	-	-	17

USE MAX 2 DURING WEEKDAYS BETWEEN 3-8 PM. USE MAX 1 ALL OTHER TIMES.

LEGEND

PROPOSED	EXISTING

NCL	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			R/LB	R/K	F

EDWARDS CONSULTING ENGINEERS

Rich, Bruce, Christopher, Clark, John, Mike, (800) 909-3116
 316 US Route 101, Dover, NH 03824
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 edj@edengr.com • www.edengr.com
 A Division of New Hampshire Professional Engineers

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 DOVER, NH 03820

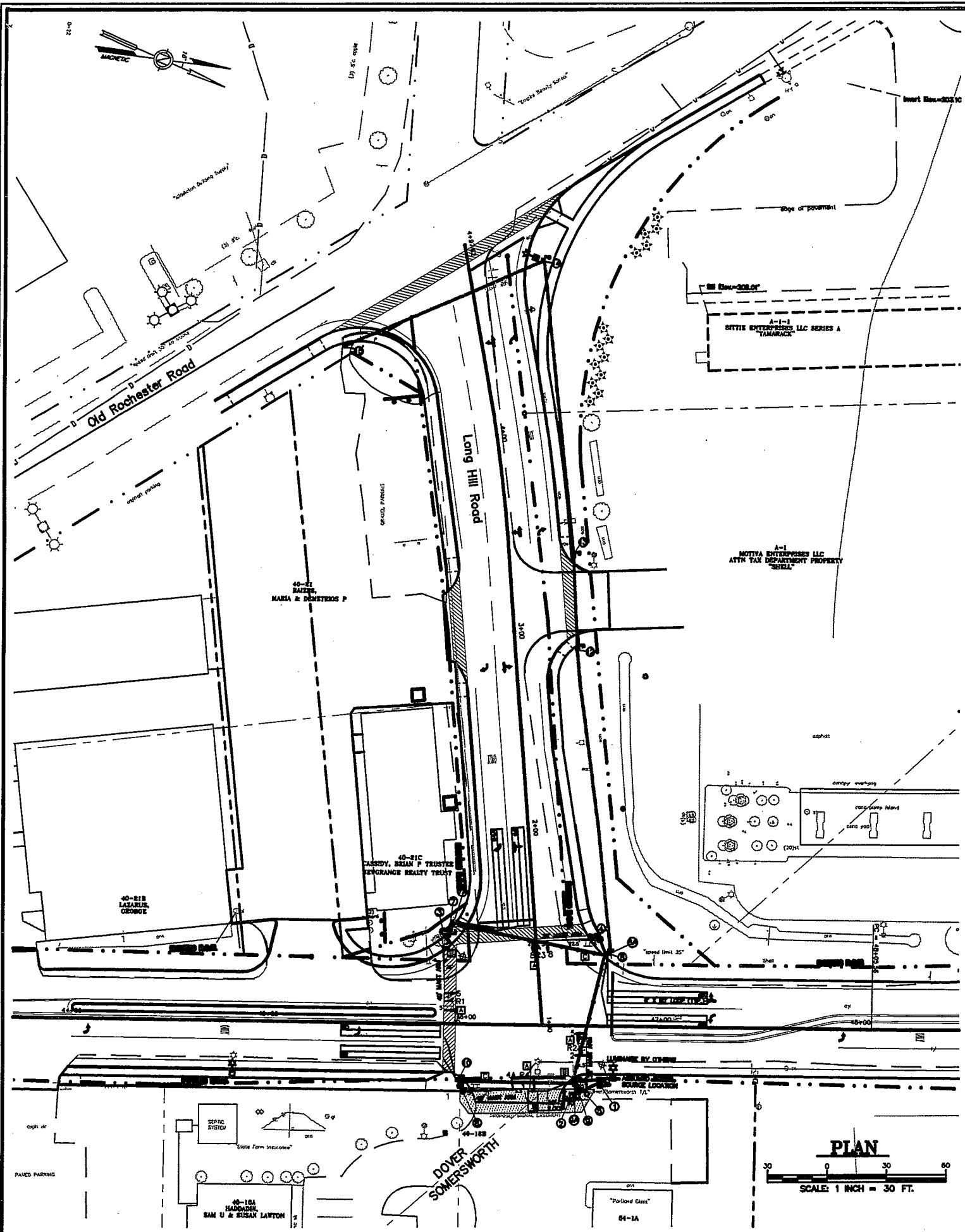
TRAFFIC SIGNAL PLAN

STATE PROJ. NO. 12644/12008
 FED. PROJ. NO. 571-TE-3-026(019)
 FED. PROJ. NO. 571-TE-3-002(202)

NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

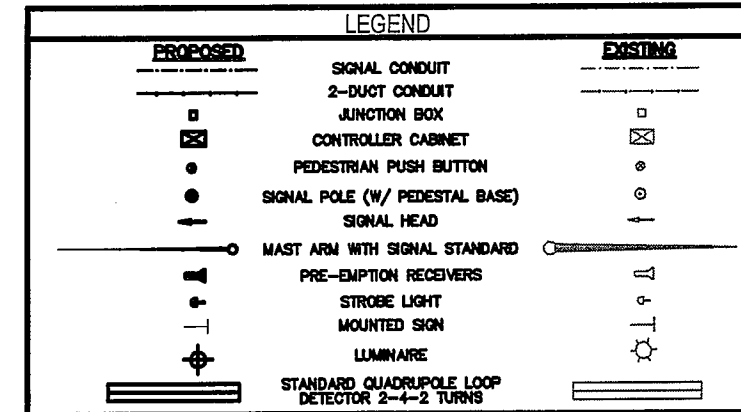
SCALE:	JOB NO.
1" = 20'	080172
DATE:	DWG.
JULY 2007	31

RECORD FIELD MEASUREMENTS ABOVE



NOTES

- DIGSAFE TO BE CONTACTED BEFORE COMMENCING ANY CONSTRUCTION, COORDINATION WITH UTILITY COMPANIES REQUIRED.
- FOUNDATIONS FOR ALL SIGNAL POLES SHALL BE INSTALLED PER NHDOT STANDARD DETAILS.
- ALL SIGNAL EQUIPMENT SHALL BE INSTALLED PER MUTCO 2003 EDITION STANDARDS AND THE NH STANDARD SPECIFICATIONS 2006, OR AS AMENDED IN THE SPECIAL PROVISIONS.
- PUBLIC SERVICE OF NEW HAMPSHIRE TO BE CONTACTED REGARDING POWER SUPPLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND SERVICE CONNECTION CHARGES.
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- SIGNAL TIMING IS PRELIMINARY AND IS TO BE ADJUSTED AS NECESSARY IN THE FIELD IN CONSULTATION WITH THE ENGINEER.
- MISCELLANEOUS WIRE, DUCT, CABLE, LABOR AND EQUIPMENT (NOT SHOWN) NECESSARY TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL, AS SHOWN, ARE REQUIRED (PAYMENT TO BE INCIDENTAL TO ITEM 616.1).
- ALL LOOP WIRES TO BE BROUGHT BACK TO THE CONTROLLER ON SEPARATE LEAD-IN CABLES. LOOP WIRES SHALL BE INSTALLED AFTER MILLING OPERATIONS AND PRIOR TO WEARING COURSE AND/OR OVERLAY.
- CONTRACTOR SHALL PROVIDE POLICE CONTROL FOR THE INTERSECTION DURING CONSTRUCTION.
- EMERGENCY PRE-EMPTION SHALL OCCUR WITH ASSOCIATED PHASES AS FOLLOWS:
 PRE-EMPTION RECEIVER R1 CALLS PHASE 6
 PRE-EMPTION RECEIVER R2 CALLS PHASES 2+5
 PRE-EMPTION RECEIVER R3 CALLS PHASE 8
 PRE-EMPTION RECEIVER R4 CALLS PHASE 4
- CONDUIT RUNS 2-12, 12-13, AND 13-14 ARE FOR FUTURE SIGNAL INTERCONNECT CABLE.



CONDUIT LENGTHS (3" MIN.)

FROM	TO	SCHED. 40	SCHED. 80
POWER 1	2	10'	
POWER 2A	3	5'	
1	12	150'	
3	7/7A	8'	
4	8/2A	8'	
5	9	8'	
6	10	5'	
7/7A	8/2A		88"
8/2A	9/2A		72"
9	10		85"
12	13		54'
13	14	154'	
14	15		114'

FOUNDATIONS

FOUNDATION	LOC.	TYPE	STATION	OFFSET	NOTES
1	MP		46+70	30' RT	PROPOSED METER PEDESTAL
2	CC		46+56	36' RT	CONTROLLER CABINET ON CONCRETE FOUNDATION & EXTENSION W/PAD
3	MA		1+51	47' LT	SIGNAL POLE W/40' M.A. W/2 PED HEADS & PUSHBUTTON ASSEMBLY AND LUMINAIRE
4	MA		1+41	33' RT	SIGNAL POLE W/35' M.A. W/1 PED HEAD & PUSHBUTTON ASSEMBLY
5	MA		46+63	34' RT	SIGNAL POLE W/30' M.A.
6	MA		45+97	35' RT	SIGNAL POLE W/40' M.A. W/1 PED HEAD & PUSHBUTTON ASSEMBLY
7	PB		1+54	44' LT	PROPOSED CONCRETE PULLBOX, 14"
7A	PB		1+54	44' LT	PROPOSED MOLDED PULLBOX, 17"x30"
8	PB		1+33	36' RT	PROPOSED CONCRETE PULLBOX, 14"
8A	PB		1+33	36' RT	PROPOSED MOLDED PULLBOX, 17"x30"
9	PB		46+56	29' RT	PROPOSED CONCRETE PULLBOX, 14"
9A	PB		46+56	29' RT	PROPOSED MOLDED PULLBOX, 17"x30"
10	PB		45+98	28' RT	PROPOSED CONCRETE PULLBOX, 14"
11	PB		2+88	32' RT	PROPOSED CONCRETE PULLBOX, 14"
12	PB		3+35	28' RT	PROPOSED CONCRETE PULLBOX, 14"
13	PB		4+83	38' RT	PROPOSED CONCRETE PULLBOX, 14"
14	PB		4+59	68' LT	PROPOSED CONCRETE PULLBOX, 14"

CLIENT: CITY OF DOVER
 CITY HALL
 DOVER, NH 03860

TRAFFIC SIGNAL PLAN

STATE PROJ. NO. 1944/13008
 FED. PROJ. NO. STP-TE-X-012(016)
 FED. PROJ. NO. STP-X-0008(262)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1" = 30'

DATE: JULY 2007

JOB NO. 030172

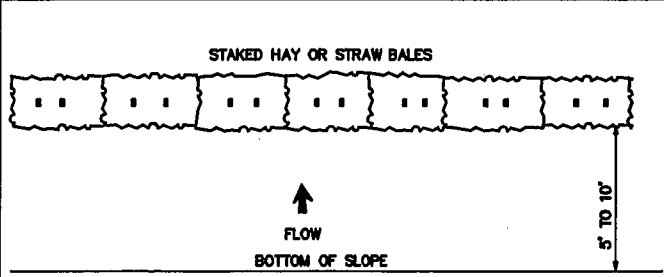
DWG. 32

NO. DATE REVISION
 DRAWN: RLB
 DESIGNED: RLB
 CHECKED: PK
 APPROVED: F

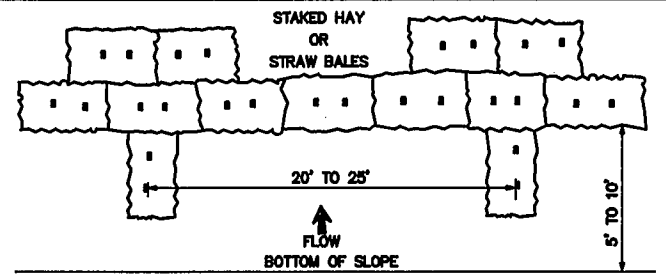
CONSULTING ENGINEERS

316 US Route 1, Suite D - York, ME 03999
 (207) 363-0669 • Fax: (207) 363-2384
 cde@engineers.com • www.cdeengineers.com

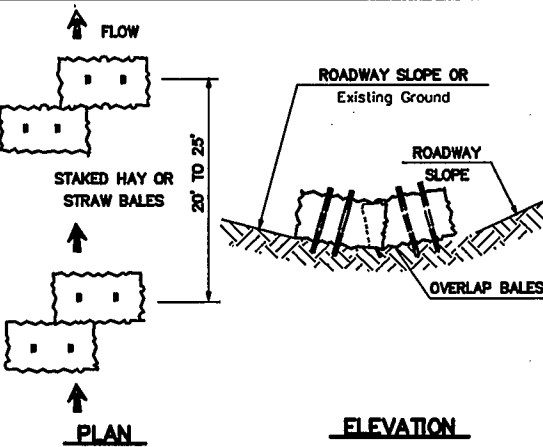
*2-DUCT CONDUIT RUN



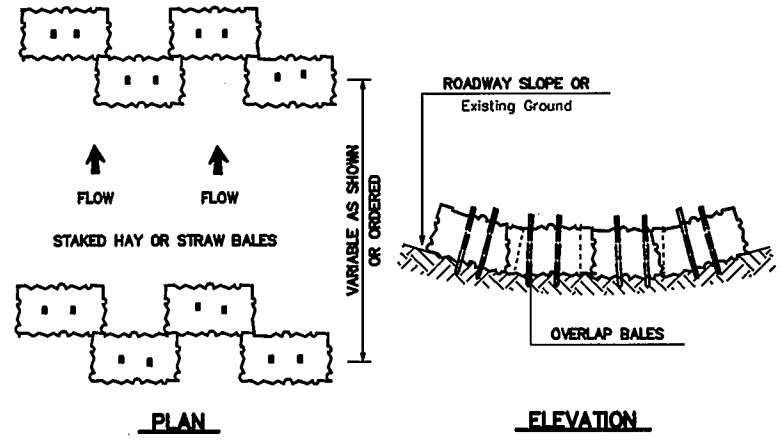
EROSION PROTECTION TYPE A



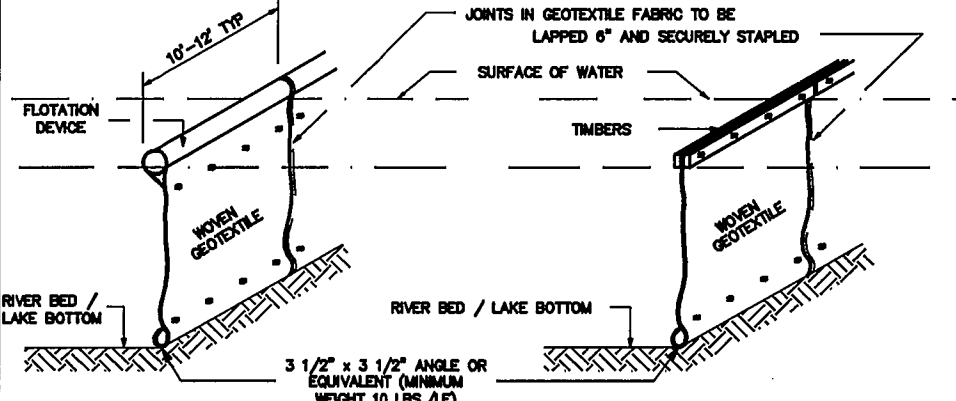
EROSION PROTECTION TYPE B



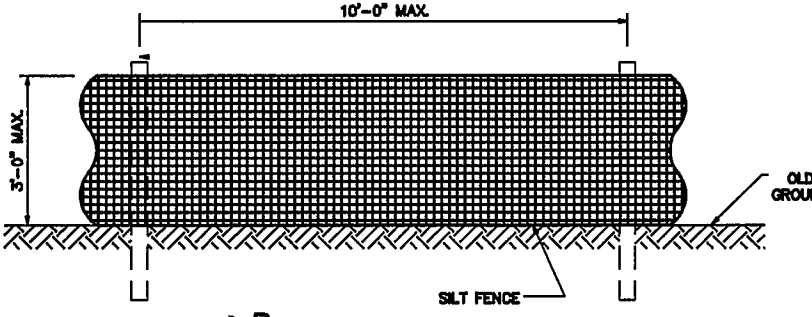
EROSION PROTECTION TYPE C



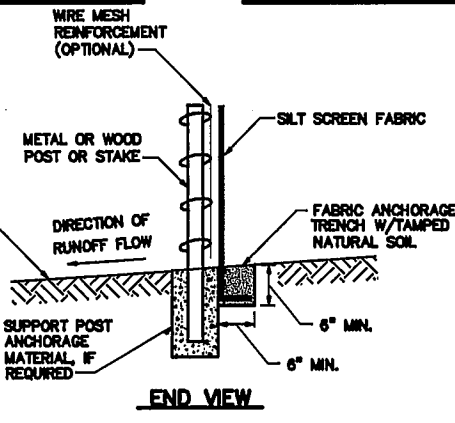
EROSION PROTECTION TYPE D



SILT SCREEN

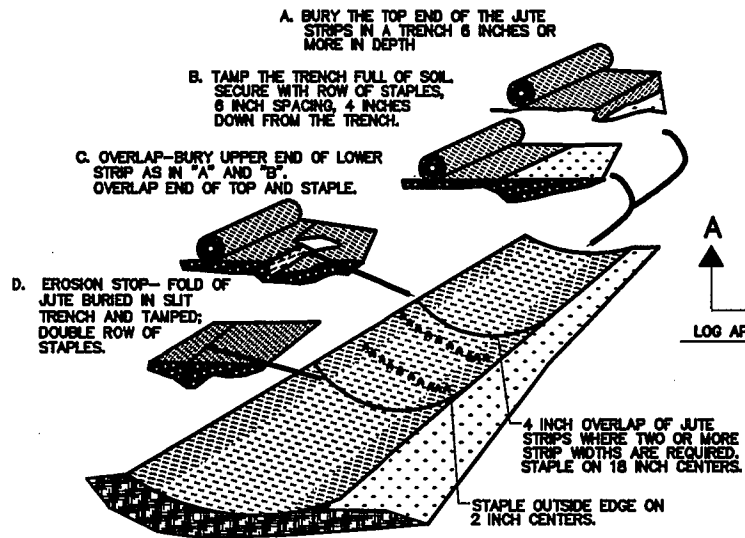


SILT FENCE

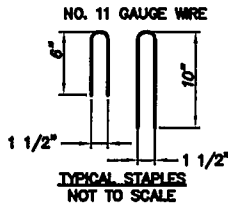


END VIEW

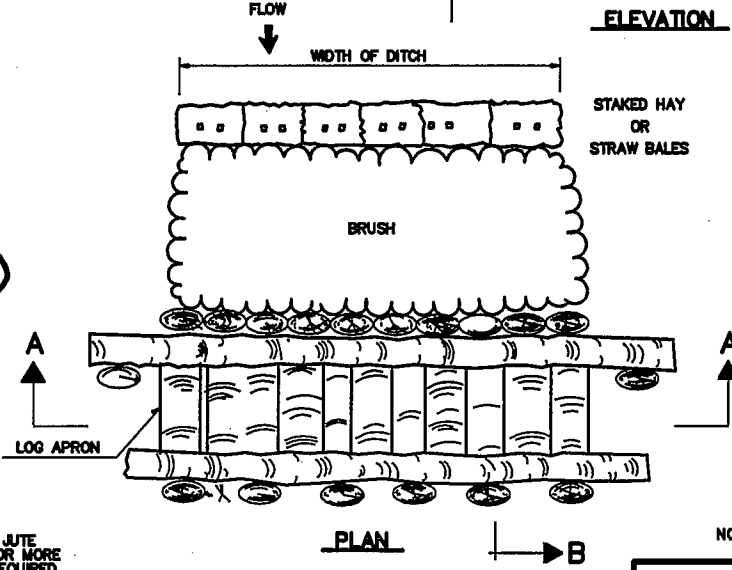
NOTE: THESE ARE SUGGESTED CONSTRUCTION METHODS. ACTUAL METHOD TO BE APPROVED BY THE ENGINEER.



JUTE MATTING DETAIL

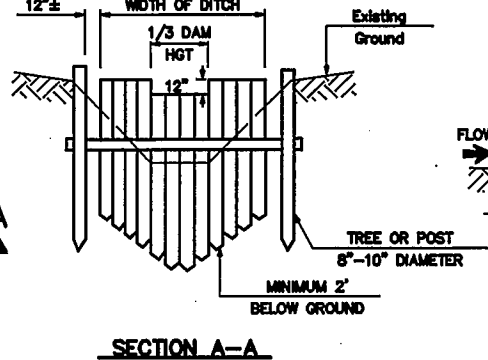


TYPICAL STAPLES NOT TO SCALE

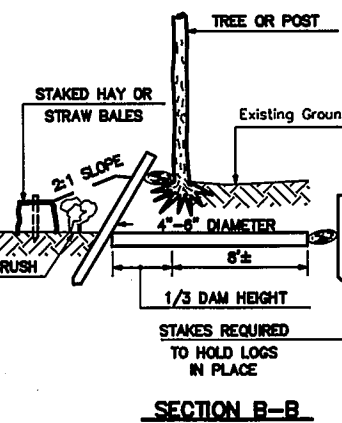


EROSION PROTECTION TYPE E

NOTE: USE IN OR JUST UPSTREAM OF WATER COURSE.

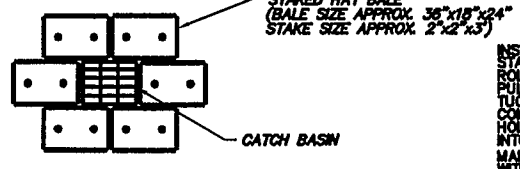


SECTION A-A



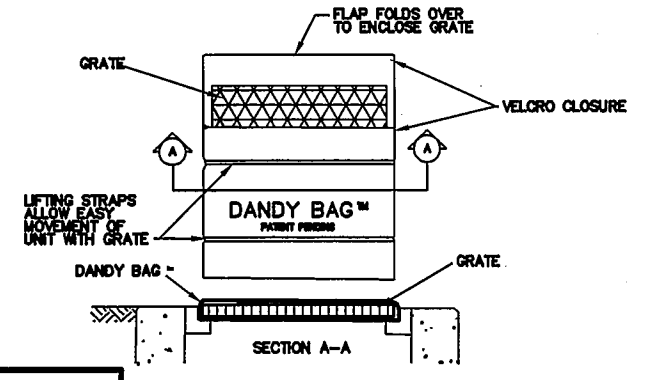
SECTION B-B

- GENERAL NOTES**
1. ALL WORK ASSOCIATED WITH TEMPORARY EROSION CONTROL, EXCEPT THAT DESCRIBED IN 699.5.2 AND IN NOTES NO. 2 & 5 (BELOW), WILL BE PAID FOR UNDER ITEM 699. - TEMPORARY PROJECT WATER POLLUTION CONTROL.
 2. BALED HAY AND STRAW WILL BE PAID FOR UNDER ITEM 699. STAKES TO HOLD BALES SHALL BE 1"x1" OF EQUIVALENT SAPLINGS, AND SHALL BE LONG ENOUGH TO EXTEND 1 FOOT MINIMUM INTO THE GROUND. STAKES WILL BE SUBSIDIARY TO ITEM 699.
 3. BALES SHALL BE SET 3 INCHES ± BELOW THE GROUND SURFACE OR AS ORDERED. ANY REQUIRED EXCAVATION TO SET BALES WILL BE SUBSIDIARY.
 4. HAY BALES WILL BE ALLOWED TO ROT IN PLACE EXCEPT IN HIGHLY VISIBLE AREAS WHERE THE ENGINEER MAY ORDER REMOVAL. (SUBSID.)
 5. SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND SHALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR IN LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED. SILT FENCE WILL BE PAID FOR UNDER ITEM 699.
 6. PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT SLOPES AT THE LIMITS OF CLEARING.



EROSION PROTECTION - CATCH BASINS AT LOW POINTS

INSTALLATION:
 STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SACK.
 TUCK FLAP IN FREE VELCRO STRIPS TOGETHER. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT WORK PROPERLY. HOLDING HANDLES CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME.
MAINTENANCE:
 WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.
 (CONTACT DANDY PRODUCTS INC. 1-800-591-2284)



DANDY BAG

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAW	DAW	JF

CONSULTING ENGINEERS
 Park Plaza Corporate Center
 316 US Route 1, Suite D, York, ME 03909
 (207) 363-0669 • Fax: (207) 363-2384
 edd@eddengineers.com • www.eddengineers.com

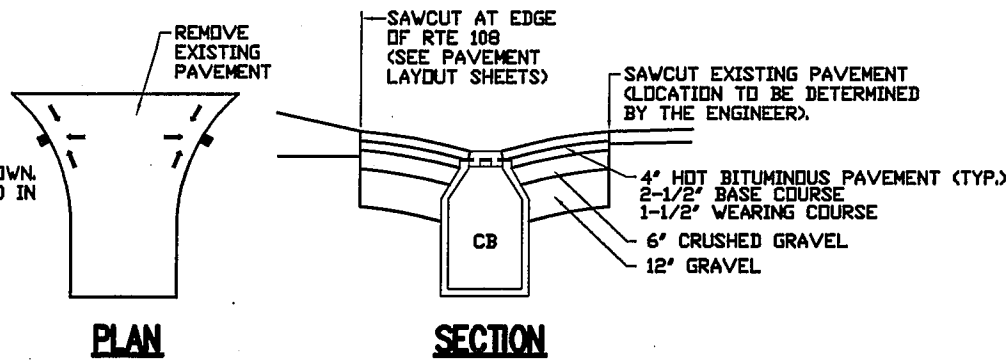
CITY OF DOVER
 CITY HALL
 DOVER, NH 03801

EROSION CONTROL MEASURES
 STATE PROJ. NO. 2004/00000
 FEDERAL PROJ. NO. 2004-1-00000000
 FEDERAL PROJ. NO. 2004-1-00000000
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

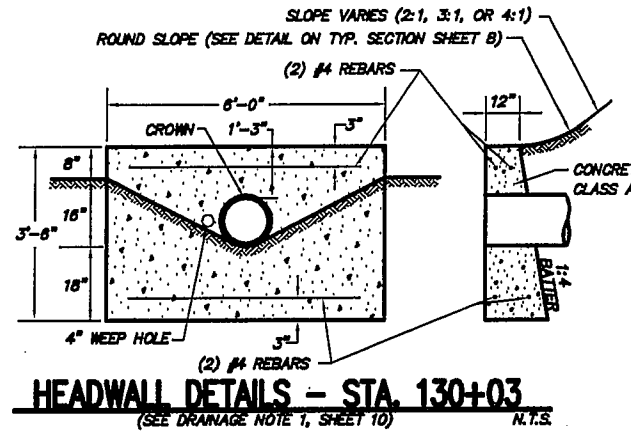
SCALE:	JOB NO.
N.T.S.	090172
DATE:	DWG.
JULY 2007	33

REGRADE TO DRAIN AS SHOWN.
GRADES TO BE DETERMINED IN
THE FIELD.

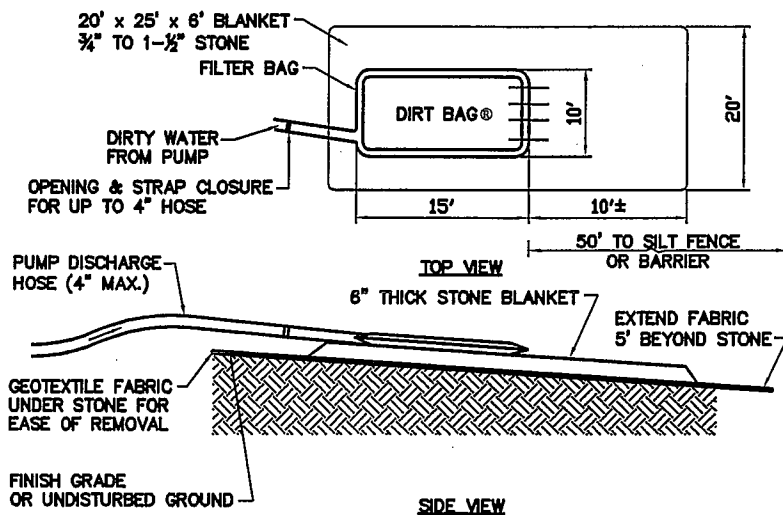
LIMITS OF WORK TO BE
DETERMINED IN FIELD.



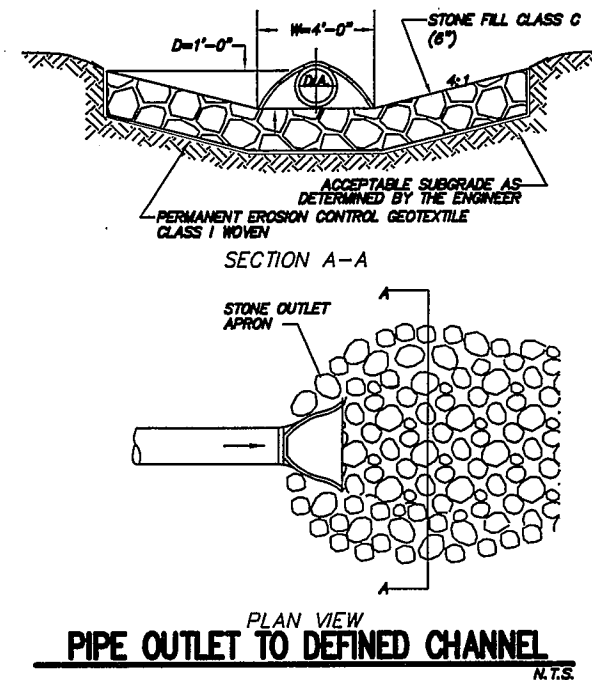
PLAN **SECTION**
TYPICAL SIDESTREET RECONSTRUCTION
NOT TO SCALE



HEADWALL DETAILS - STA. 130+03
(SEE DRAINAGE NOTE 1, SHEET 10) N.T.S.



PUMPED DISCHARGE SEDIMENT CONTROL DEVICE ("DIRT BAG")
N.T.S.



PIPE OUTLET TO DEFINED CHANNEL
N.T.S.

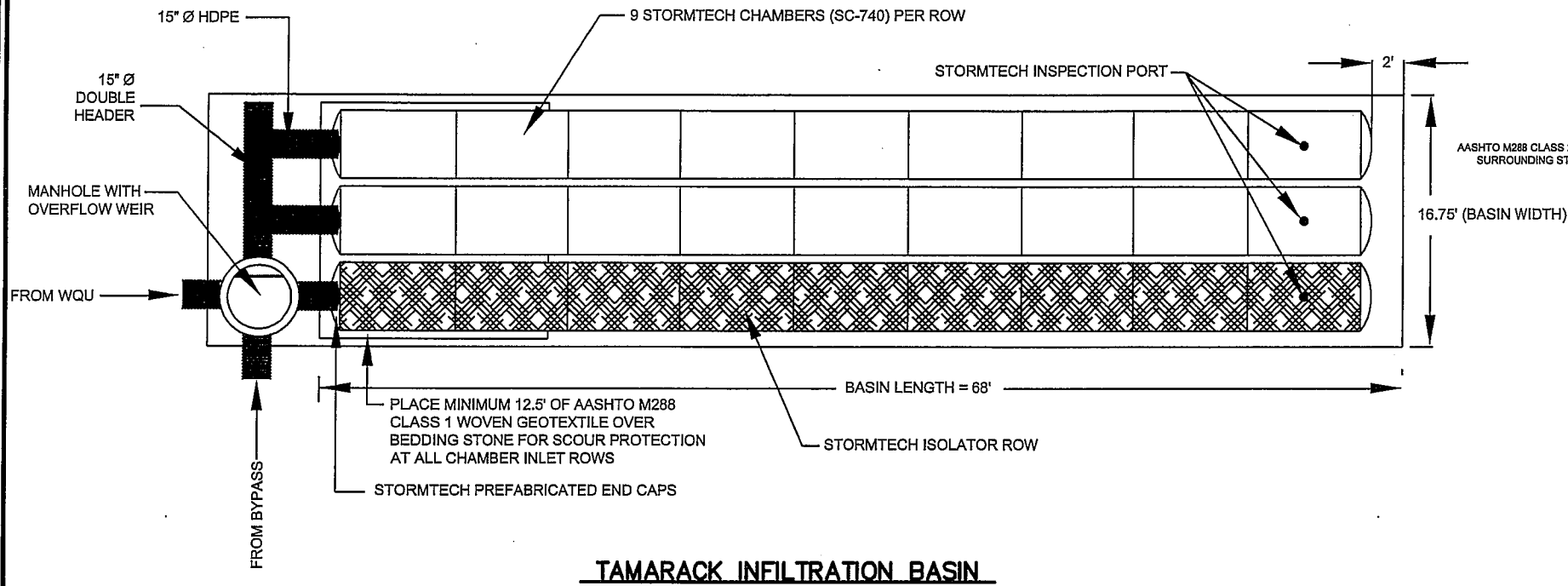
NO.	DATE	REVISION	CHECKED:	APPROVED:
			BM	MF
			BM	MF

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 Pink Place Corporate Center
 316 US Route 1, Suite D - York, ME 03909
 (207) 363-0669 • Fax: (207) 363-2384
 c&e@cdengineers.com • www.cdengineers.com
 Maine • New Hampshire • Vermont

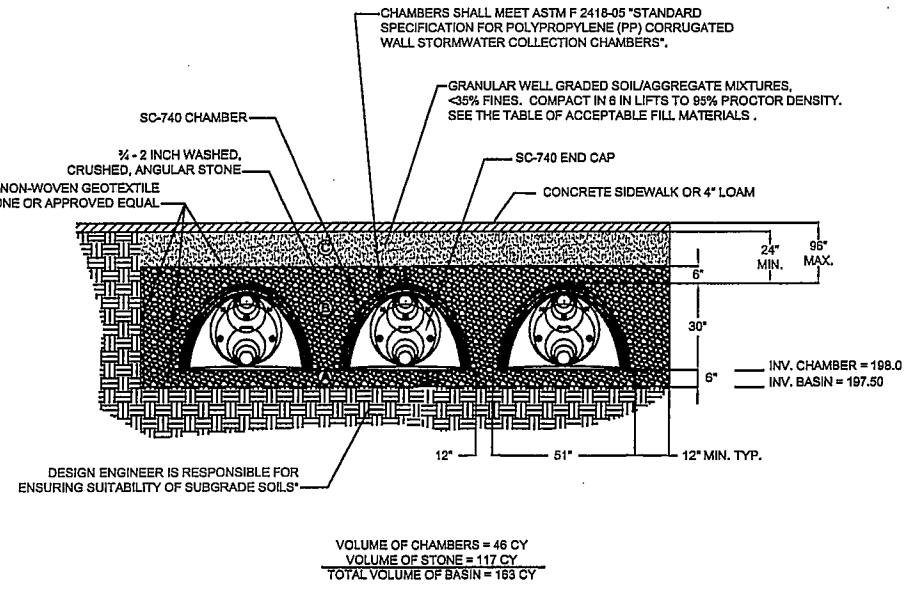
CITY OF DOVER
 CITY HALL
 DOVER, NH 03860

DRAINAGE DETAILS
 STATE PROJ. NO. 12844/12848
 FED. PROJ. NO. 57P-E-X-002(04)
 FED. PROJ. NO. 57P-X-002(02)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

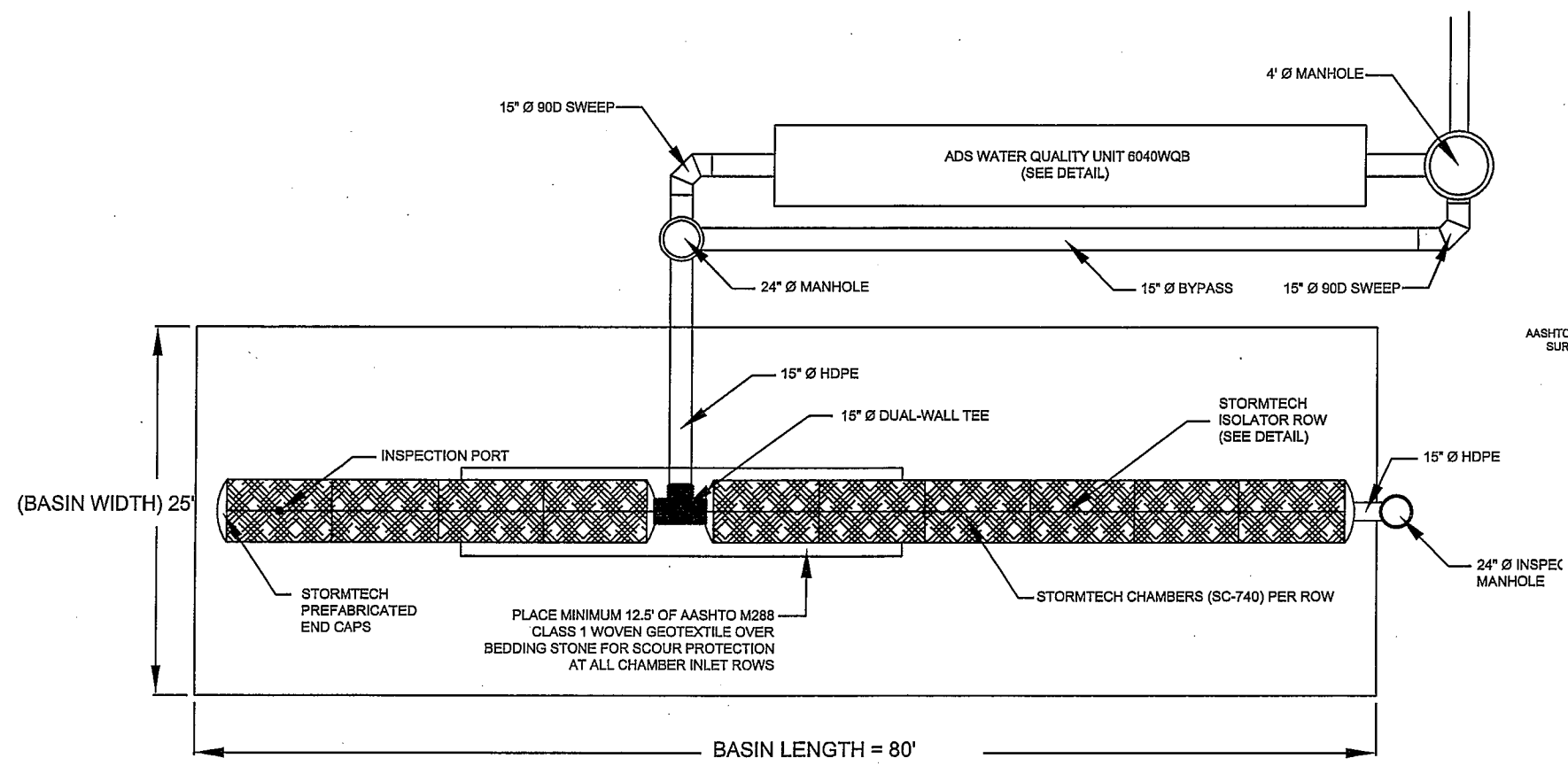
SCALE:	JOB NO.
NTS	000172
DATE:	DWG.
DEC 2007	34



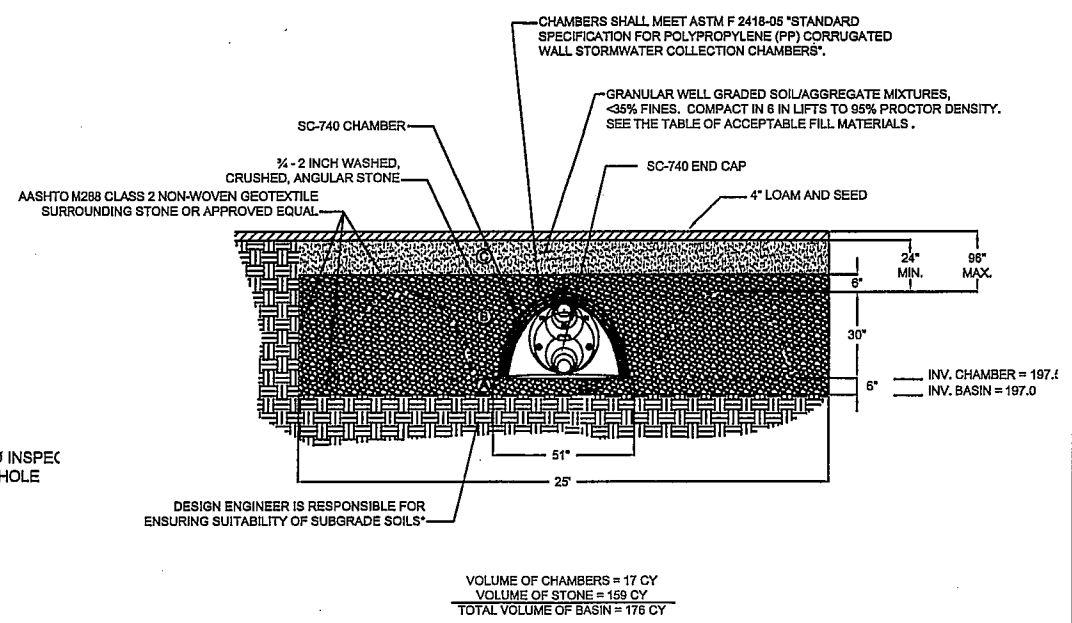
TAMARACK INFILTRATION BASIN



**TAMARACK INFILTRATION BASIN
CROSS SECTION**



**WINCHESTER ARMS INFILTRATION BASIN
PLAN VIEW**



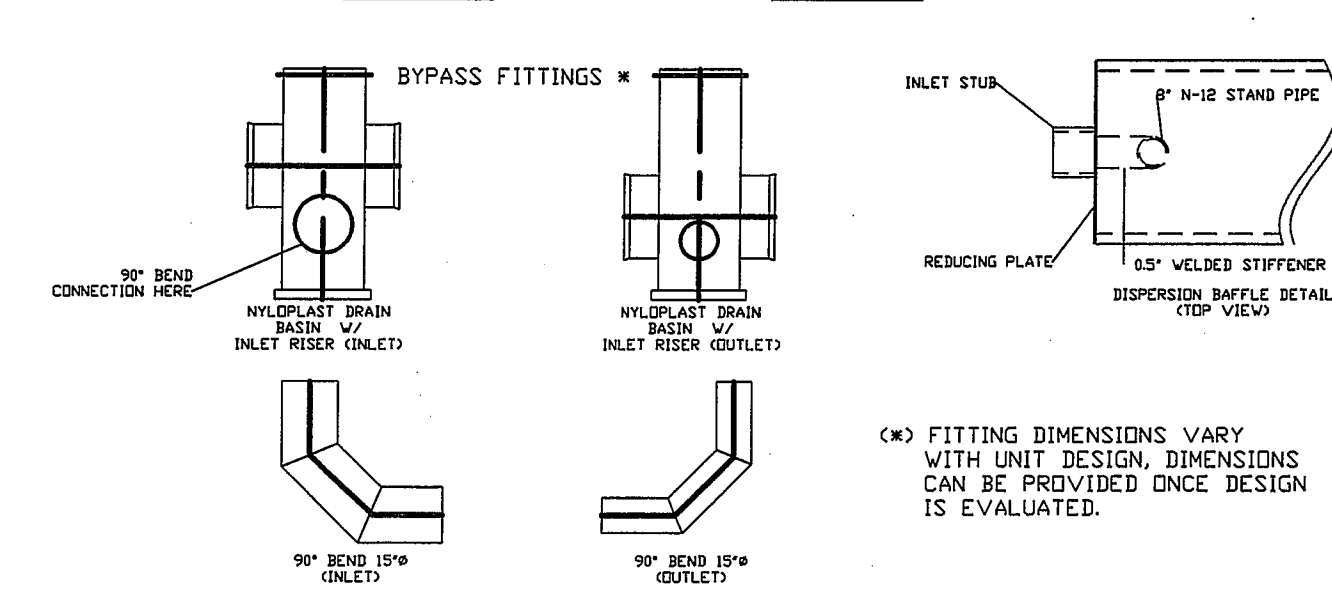
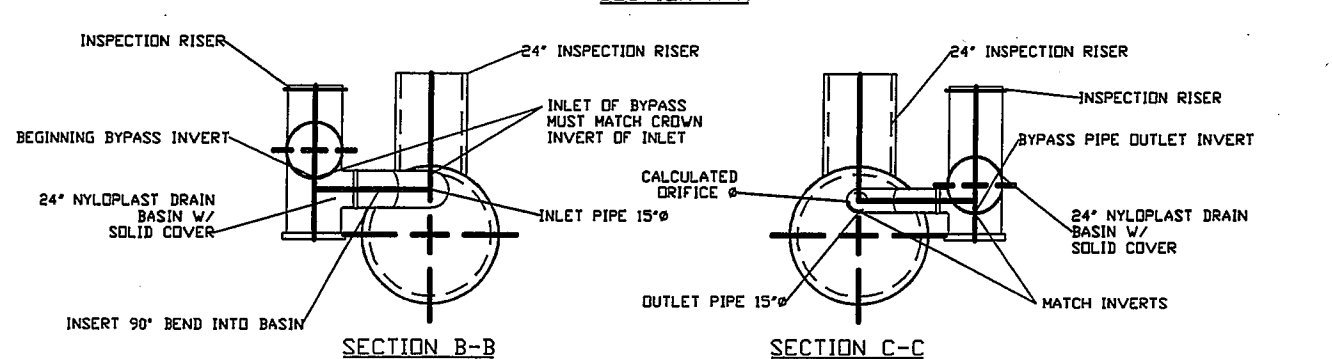
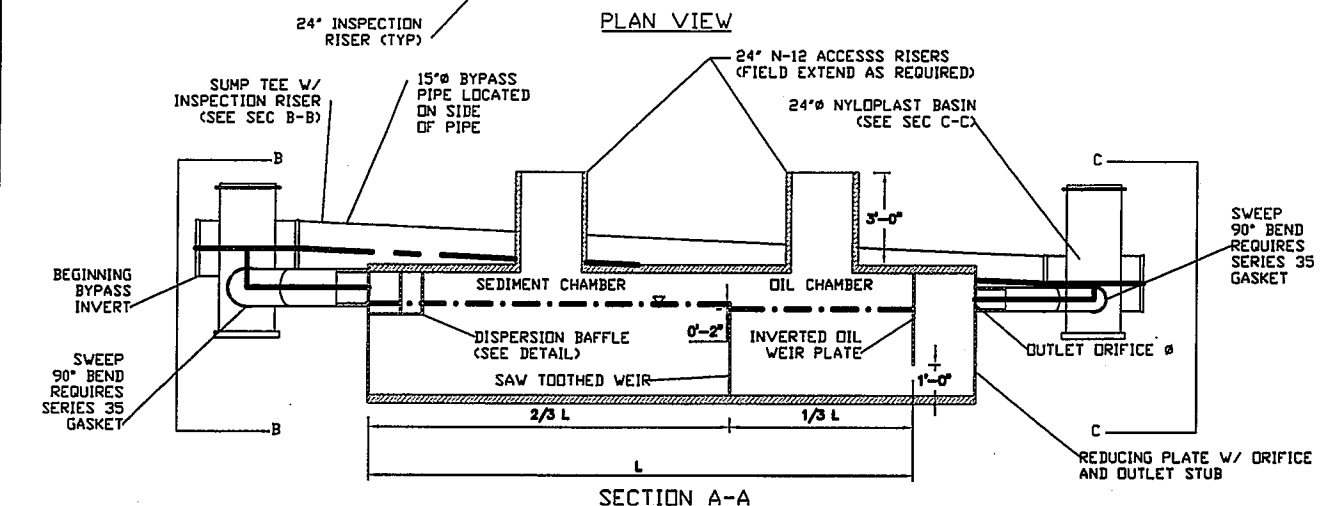
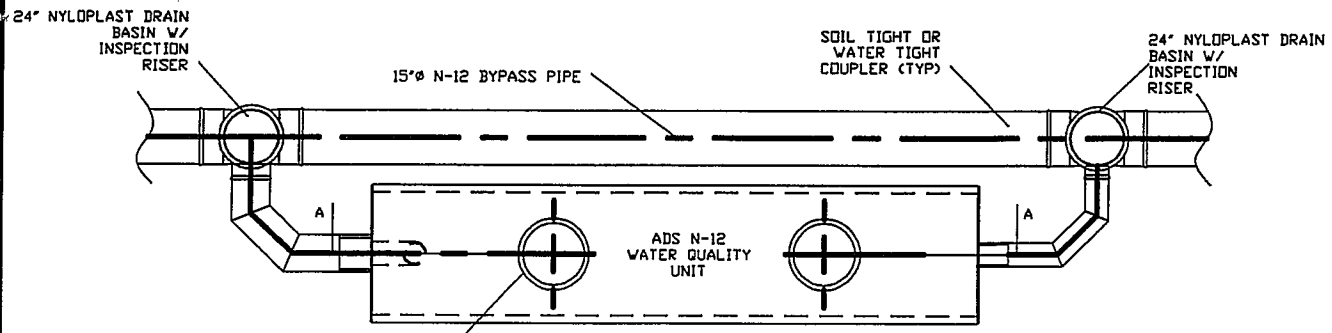
**WINCHESTER ARMS INFILTRATION BASIN
CROSS SECTION**

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAD	AWM	JLF

CLIENT:
CITY OF DOVER
CITY HALL
DOVER, NH 03860

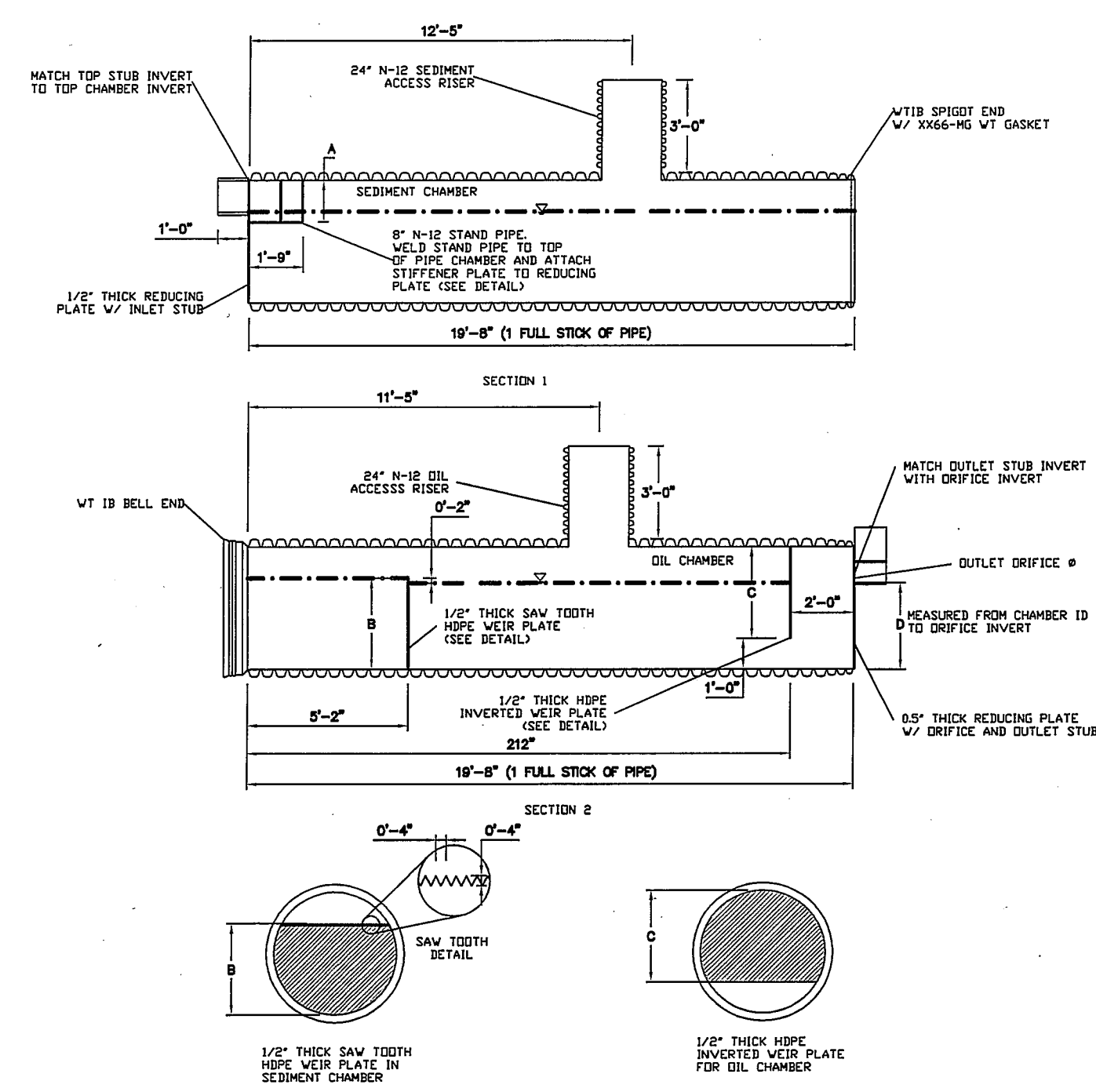
DRAINAGE DETAILS
STATE PROJ. NO. 12644/1268
FED. PROJ. NO. SP-2-3-022(04)
FED. PROJ. NO. SP-1-002(20)
NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
NTS	030172
DATE:	DWG.
DEC 2007	35



**ADS HDPE WATER QUALITY UNIT
(NYLOPLAST INLET / NYLOPLAST OUTLET)**

(*) FITTING DIMENSIONS VARY WITH UNIT DESIGN, DIMENSIONS CAN BE PROVIDED ONCE DESIGN IS EVALUATED.



ADS MODEL #	MAIN PIPE DIA.	INLET STUB DIA.	OUTLET STUB DIA.	ORIFICE DIA.	A	B	C	D
6040WQBXX	60"	15"	10"	8.65"	18.9"	44.5"	47.5"	42.5"

40' ADS WATER QUALITY UNIT STANDARD FAB DETAIL

- NOTES:
- THE UNIT WILL BE SHIPPED IN TWO SECTIONS AS SHOWN ABOVE AND WILL BE REQUIRED TO BE CONNECTED IN THE FIELD. PROPERLY LUBE THE BELL AND SPIGOT GASKET PRIOR TO ASSEMBLY.
 - ALL DIMENSIONS ARE NOMINAL.
 - ALL FITTING CONNECTIONS WILL BE MADE USING A STANDARD BELL/BELL OR SPLIT COUPLER.
 - ALL WATER QUALITY UNITS ARE PRODUCT # 6040WQB15.
 - WATER QUALITY UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS DEFINED IN THE ADS WATER QUALITY UNIT INSTALLATION GUIDE. SEE INSTALLATION GUIDE FOR PROPER BACKFILL MATERIAL AND DEPTHS, TRENCH CONSTRUCTION AND CONFIGURATION.
 - ADDITIONAL ANCHORING SHALL BE PROVIDED AS NEEDED TO AVOID PIPE FLOTATION.

CITY OF DOVER
CITY HALL
DOVER, NH 03860

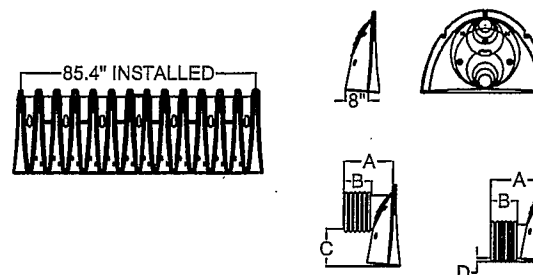
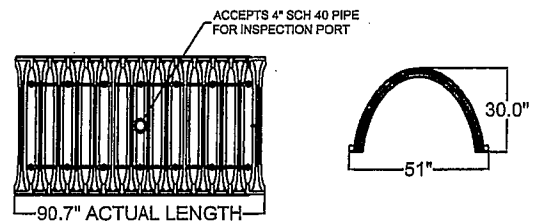
DRAINAGE DETAILS

STATE PROJ. NO. 2007/2008
FED. PROJ. NO. SP-2-3-002(09)
FED. PROJ. NO. SP-3-002(09)

**NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE**

SCALE: HTS	JOB NO. 000172
DATE: DEC 2007	DWG. NO. 36

NO. DATE REVISION	DESIGNED: /RM	APPROVED: /JF
DRAWN: /DAD		



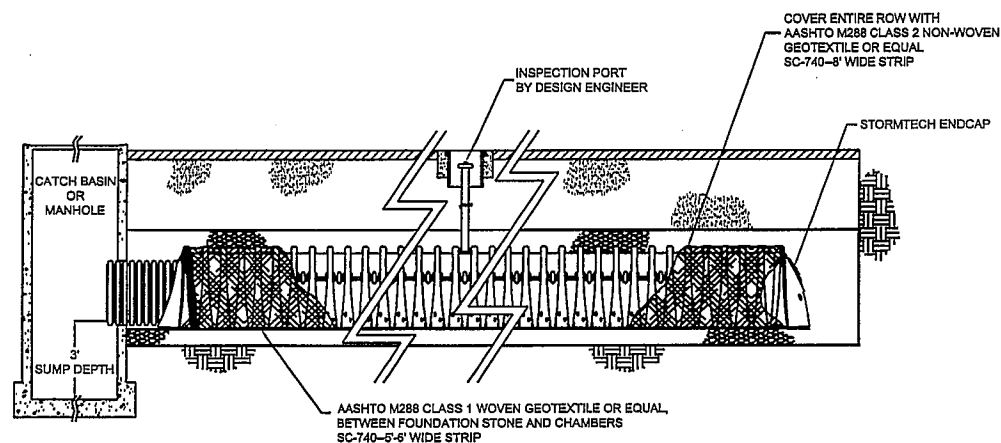
NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W x H x INSTALLED LENGTH) - 51.0" x 30.0" x 85.4"
 CHAMBER STORAGE - 45.9 CUBIC FEET
 MINIMUM INSTALLED STORAGE - 74.9 CUBIC FEET
 WEIGHT - 75 LBS.

STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH "T"
 STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH "B"

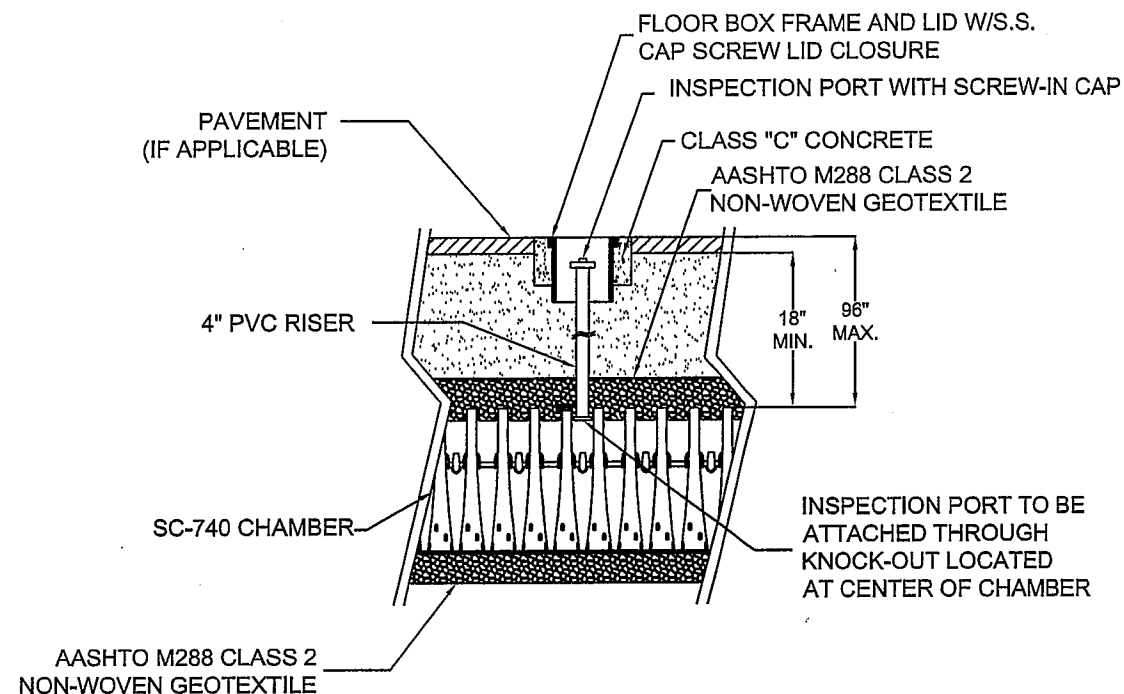
PART #	CHAMBER	PIPE SIZE	A	B	C	D
SC740PE1ST	SC 740	15 in (375 mm)	18.40 in (467 mm)	10.36 in (263 mm)	9.00 in (229 mm)	N/A
SC740PE1SB	SC 740	15 in (375 mm)	18.40 in (467 mm)	10.36 in (263 mm)	N/A	1.30 in (33 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.
 ALL STUBS, EXCEPT FOR THE SC740PE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-866-552-2854.
 * FOR THE SC740PE24B THE 24" STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75". BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SETS LEVEL.

SC-740 CHAMBER DETAIL



STORMTECH ISOLATOR ROW DETAIL



STORMTECH INSPECTION PORT DETAIL

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
③ FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 76, 8, 89, 9, 10	A-1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
④ EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
⑤ FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE WASHED CRUSHED ANGULAR. FOR EXAMPLE, THE STONE MUST BE SPECIFIED AS WASHED, CRUSHED, ANGULAR NO. 4 STONE.

STORMTECH ACCEPTABLE FILL MATERIALS









NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			DAO	JF	JF

CONSULTING ENGINEERS
 Inc.
 Pink Pine Corporate Center
 316 US Route 1, Suite 10 - York, ME 03909
 1079 Jackson St. - Portland, ME 04104
 400 Main St. - Portland, ME 04101
 400 Main St. - Portland, ME 04101
 400 Main St. - Portland, ME 04101

CITY OF DOWER
 CITY HALL
 DOWER, NH 03820

DRAINAGE DETAILS
 STATE PROJ. NO. 2844/1808
 STATE PROJ. NO. SP-2-1-052(04)
 FEDERAL PROJ. NO. SP-1-052(02)
 NEW ROCHESTER RD / LONG HILL RD
 DOWER, NEW HAMPSHIRE

SCALE:	JOB NO.
NTS	000172
DATE:	DWG.
DEC 2007	37

ITEM NO.	IDENT. NO.	SIGN SIZE		TEXT	TEXT DIMENSIONS				NO. SIGNS REQ'D	SIGN AREA (SQ. FT.)		REMARKS	ITEM NO.	IDENT. NO.	SIGN SIZE		TEXT	TEXT DIMENSIONS				NO. SIGNS REQ'D	SIGN AREA (SQ. FT.)		REMARKS				
		HEIGHT	WIDTH		LETTER HEIGHT			RTE.MKR. OR SHIELD		ARROW	NUMERAL				NOM. AREA	TOTAL AREA		HEIGHT	WIDTH	LETTER HEIGHT			RTE.MKR. OR SHIELD	ARROW		NUMERAL	NOM. AREA	TOTAL AREA	
					UC	LC	CAPS													UC	LC								CAPS
													615.06	OM1-3	18"	18"	◇					2	2.25	4.50	YELLOW TYPE III MOUNT BELOW R4-7				
615.06	R3-2	24"	24"							1	4.00	4.00																	
615.06	R3-4	24"	24"							2	4.00	8.00																	
615.03	R3-8 (25)	30"	36"					4D		1	7.50	7.50																	
615.03	R3-8 (14)	30"	36"					4D		2	7.50	15.00																	
615.03	R4-7	30"	24"							2	5.00	15.00																	
615.03	R6-1(R)	12"	36"					4D		1	3.00	3.00																	
615.06	R10-12	30"	24"							4	5.00	20.00																	
615.05	D3-1	16"	54"	LONG HILL RD				12"		2	6.00	12.00																	
615.05	D3-1	16"	54"	NH ROUTE 108				12"		2	6.00	12.00																	
615.06	R10-3B	9"	12"							3	0.75	2.25																	

GENERAL NOTES

- REFER TO THE 2006 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
- NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2006 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 716 PUBLISHED BY THE NHDOT.
- REFER TO THE LATEST EDITION OF THE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
- REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.

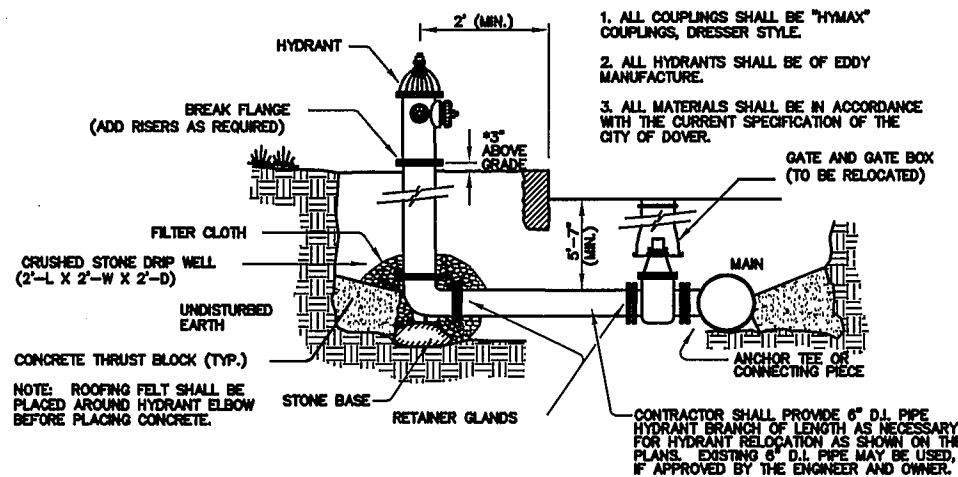
NO.	DATE	REVISION	DESIGNED:	APPROVED:
			DAD/RMM	JF
			DAD	

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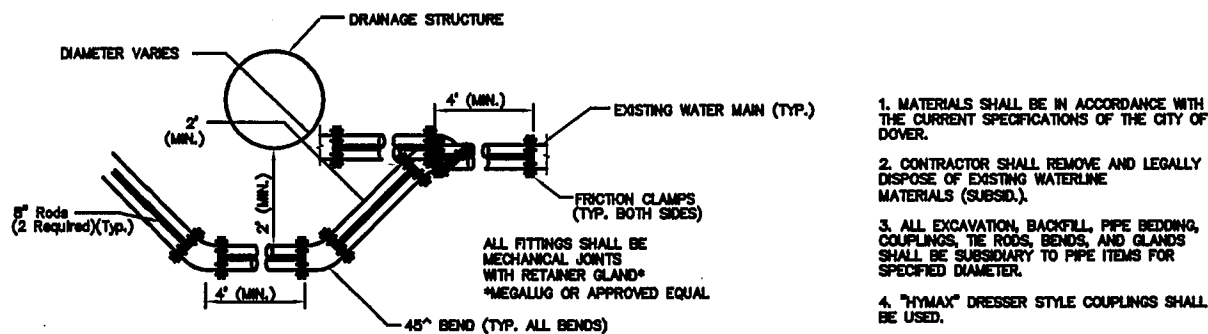
CITY OF DOVER
CITY HALL
DOVER, NH 03860

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FED. PROJ. NO. ST-12-X-0125(016)
FED. PROJ. NO. ST-12-X-0003(202)
NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

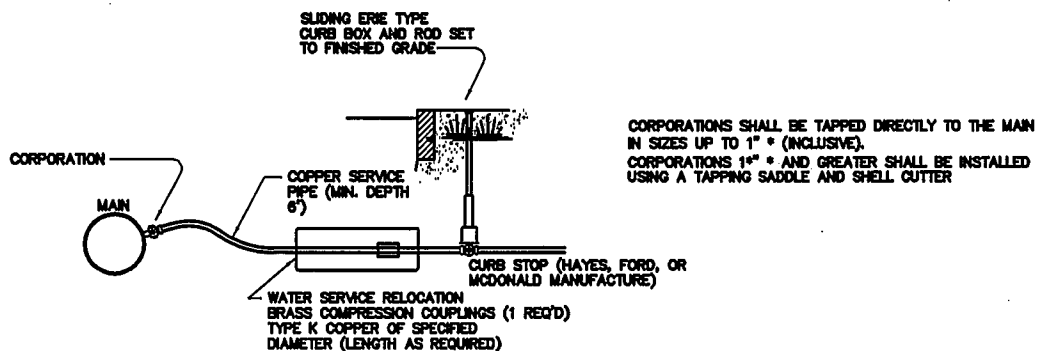
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NTS	030172
DATE:	DWG.
DEC 2007	38



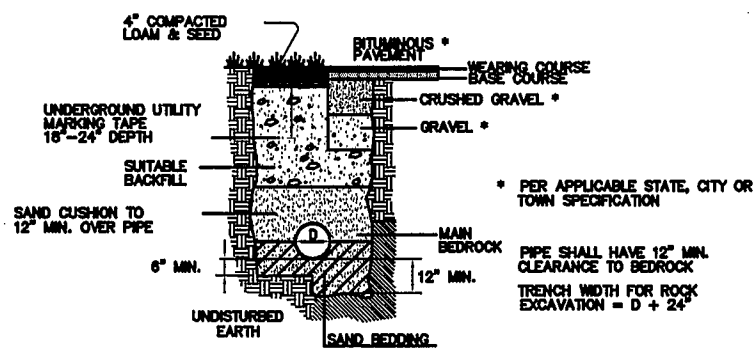
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 NOT TO SCALE



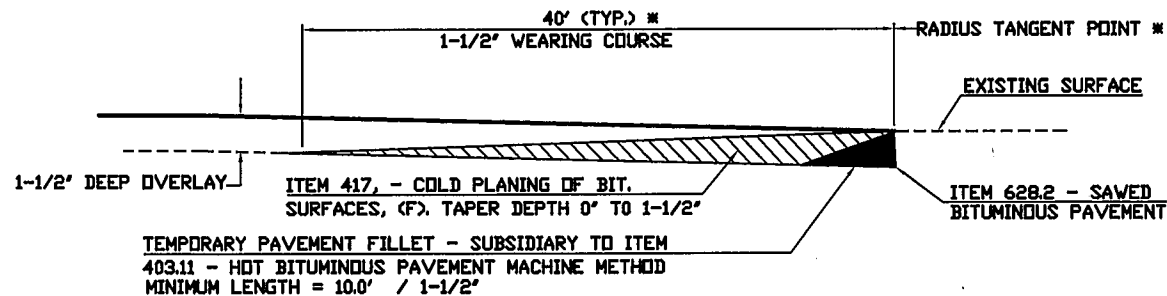
WATER MAIN ADJUSTMENT DETAIL
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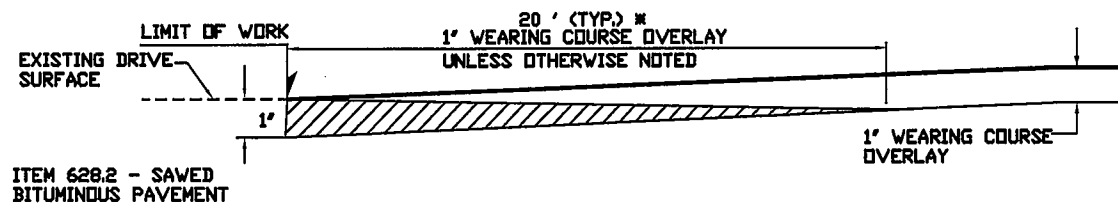
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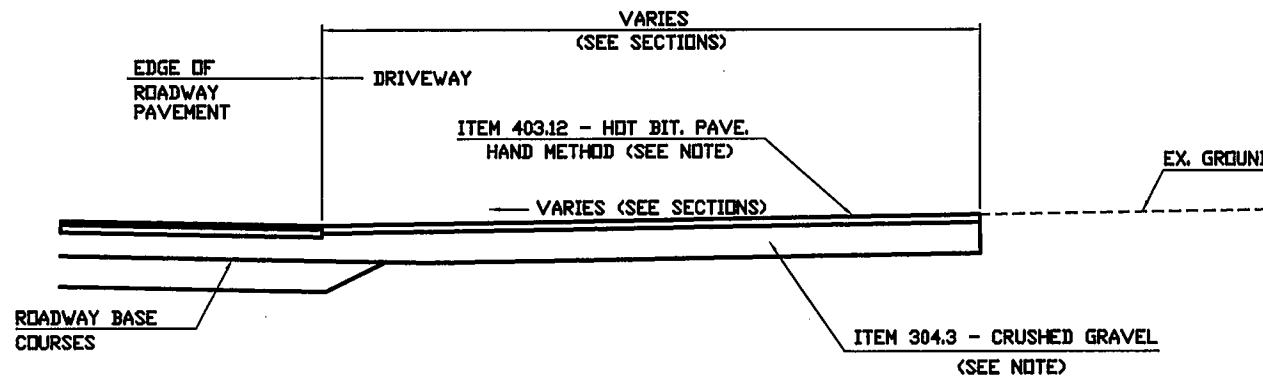
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 NOT TO SCALE



PAVEMENT MATCH TYPICAL
 NOT TO SCALE
 ROUTE 108 (STA. 38+82.50)
 ROUTE 108 (STA. 52+00.00)



PARKING LOT OVERLAY MATCH TYPICAL
 NOT TO SCALE



TYPICAL DRIVE SECTION
 NOT TO SCALE

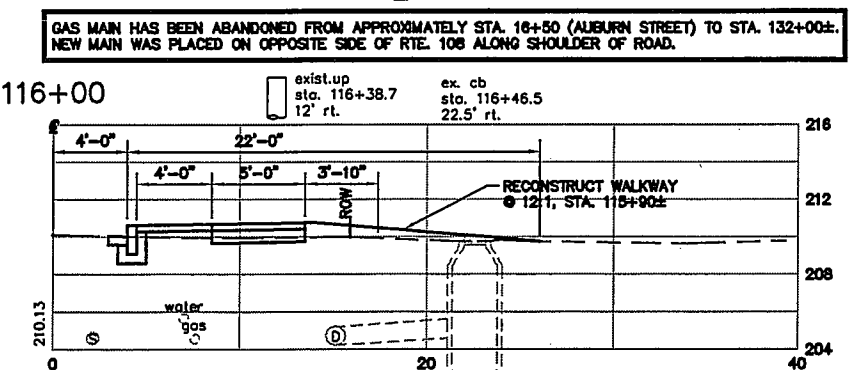
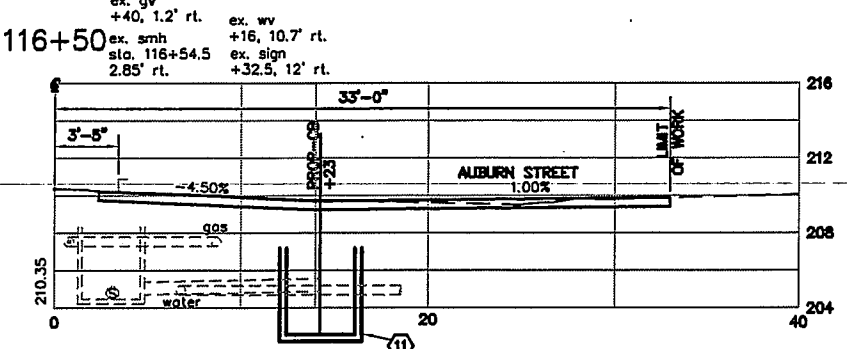
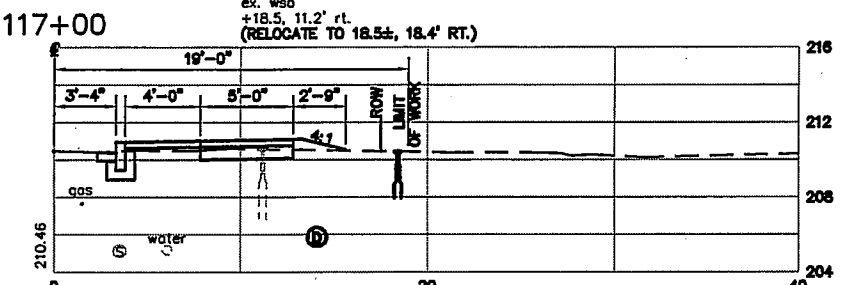
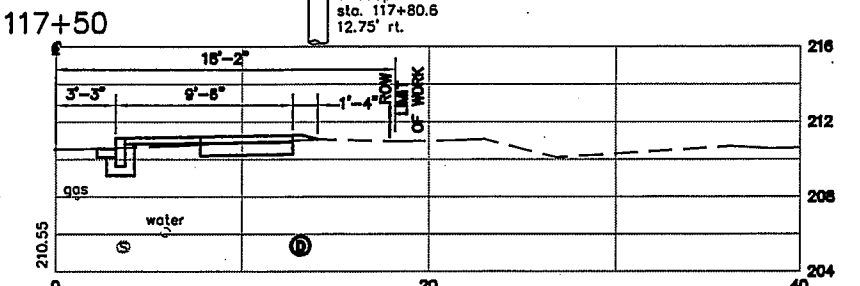
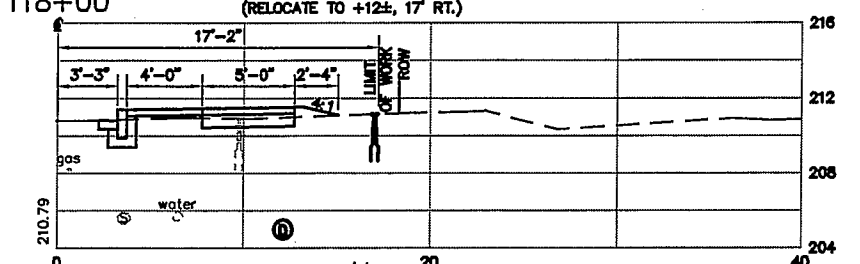
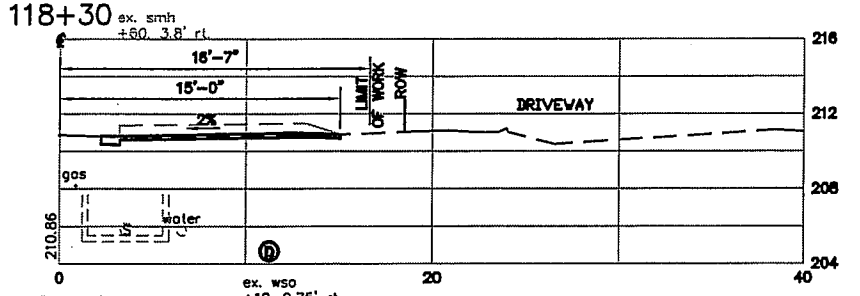
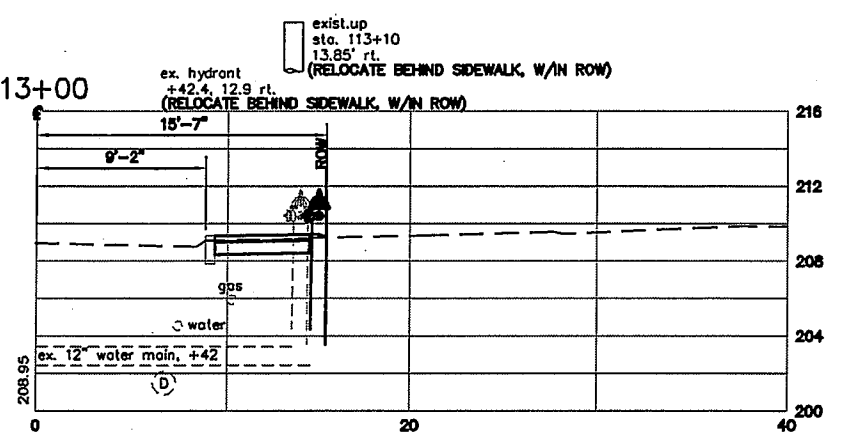
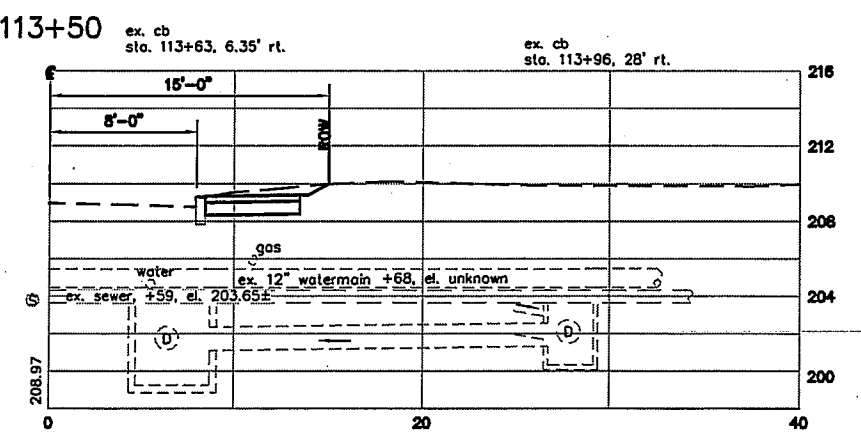
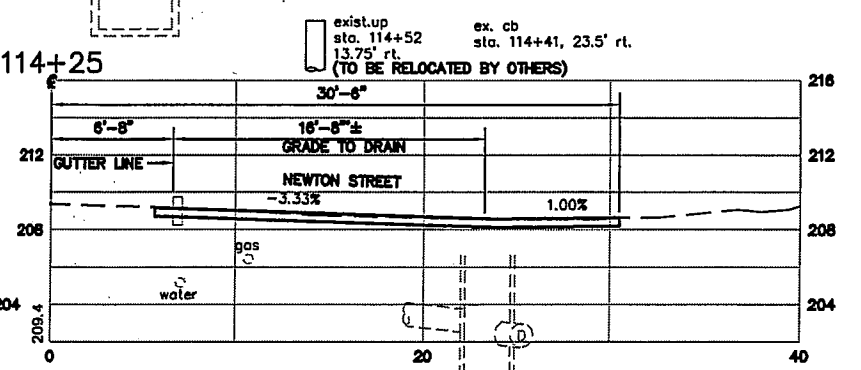
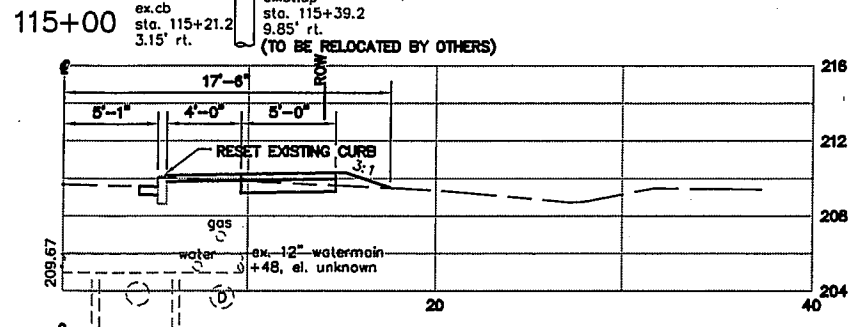
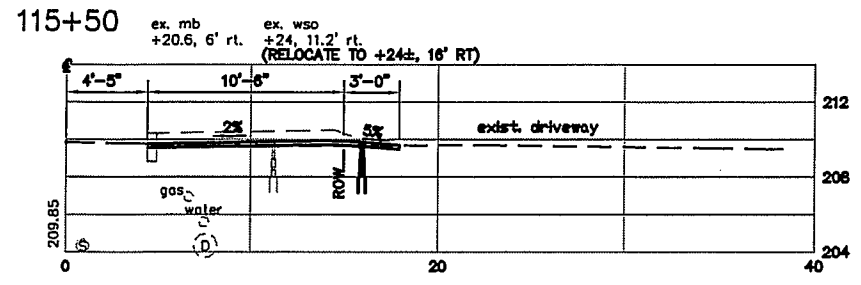
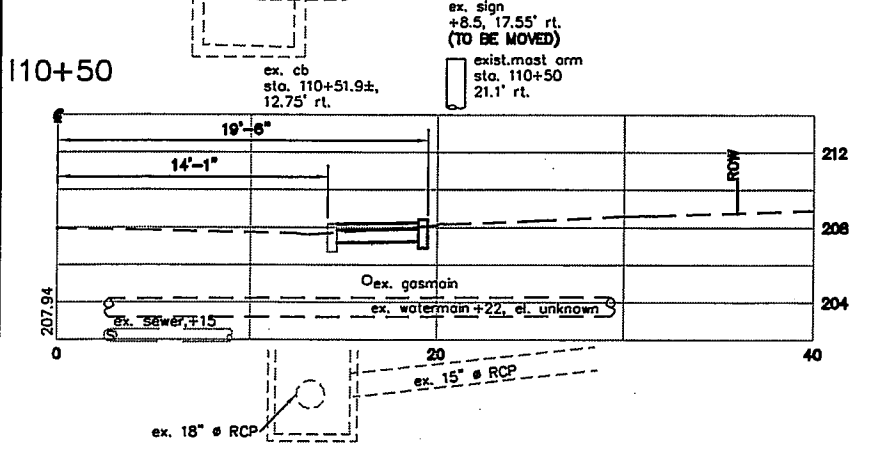
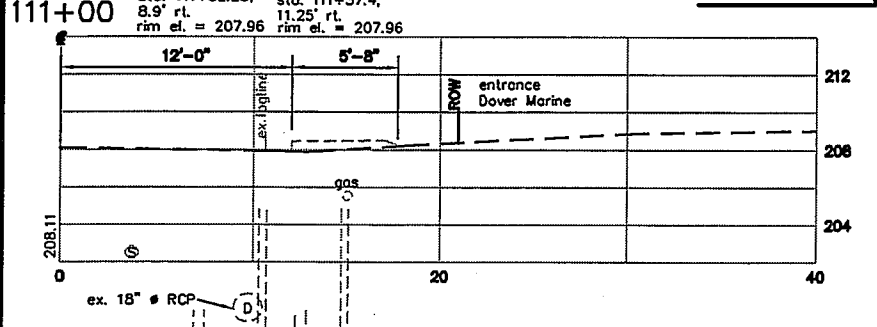
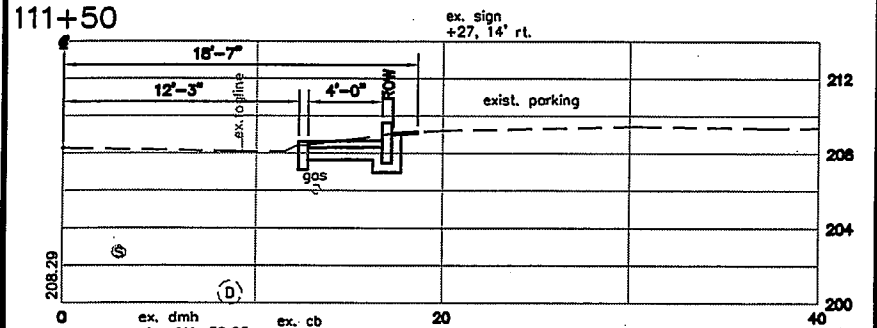
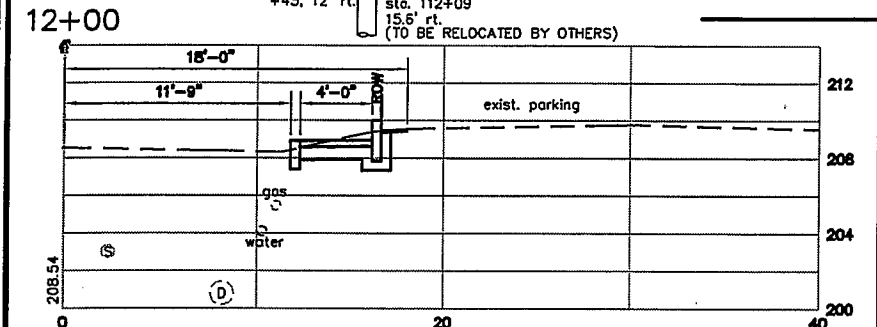
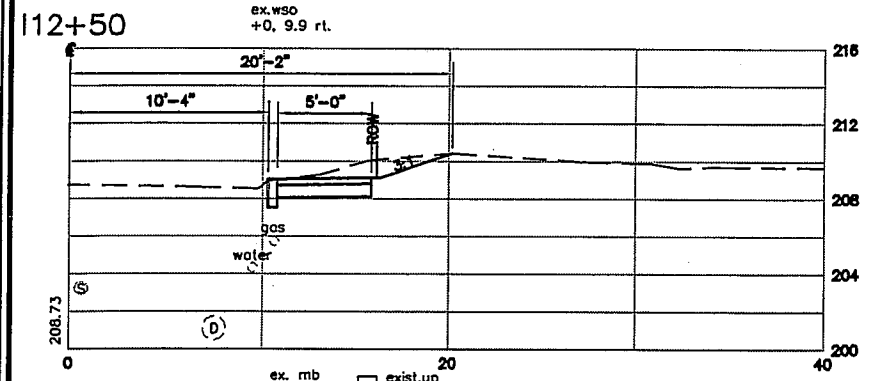
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JF	JF
			DRAWN:		
			PAD		

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CITY OF DOVER
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 DOVER, NH 03801

MISCELLANEOUS DETAILS
 SCALE: NTS
 JOB NO. 090172
 DATE: DEC 2007
 DWG. 39

CITY OF DOVER
 CITY HALL
 DOVER, NH 03801



GAS MAIN HAS BEEN ABANDONED FROM APPROXIMATELY STA. 16+50 (AUBURN STREET) TO STA. 132+00±. NEW MAIN WAS PLACED ON OPPOSITE SIDE OF RTE. 106 ALONG SHOULDER OF ROAD.

BID ALTERNATIVE - SEE GENERAL NOTE 14, SHEET 2

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JLF	JLF
DRAWN:			DAD		

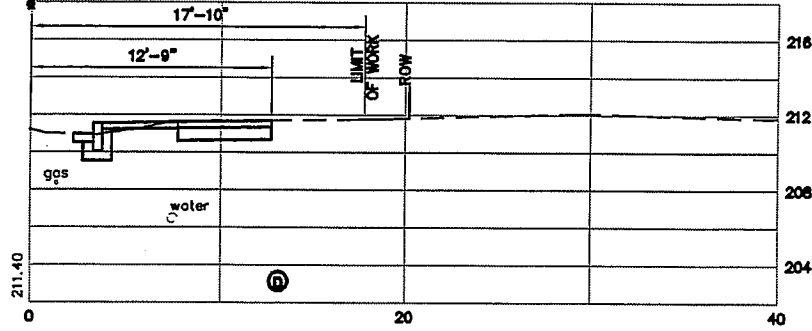
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Park Place Corporate Center
316 US Route 101, Dover, NH 03809
603-336-6666
603-336-3334
cid@clgeng.com www.clgeng.com

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CITY HALL
DOVER, NH 03820

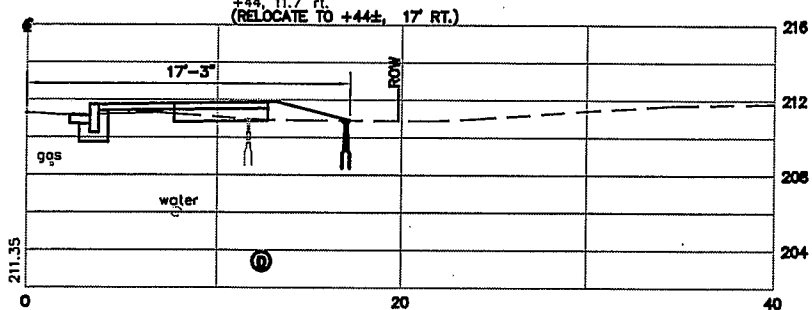
SIDEWALK CROSS SECTIONS
STATE PROJ. NO. 1284/1285
FED. PROJ. NO. STP-12-1-000000
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NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
1" = 5'	080172
DATE:	DWG.
DEC 2007	41

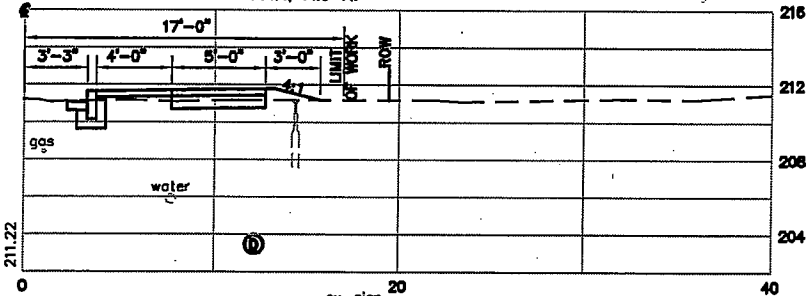
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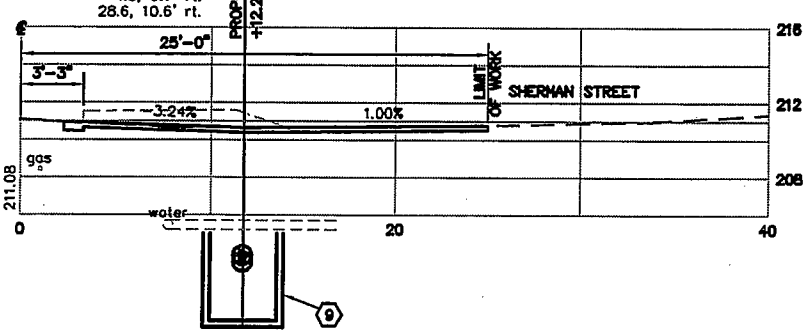
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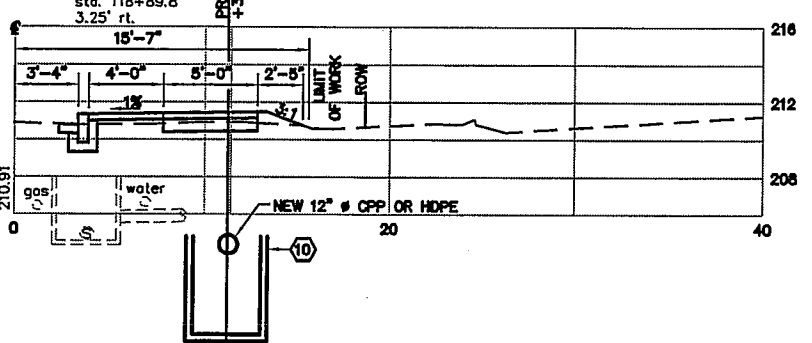
119+50



119+00

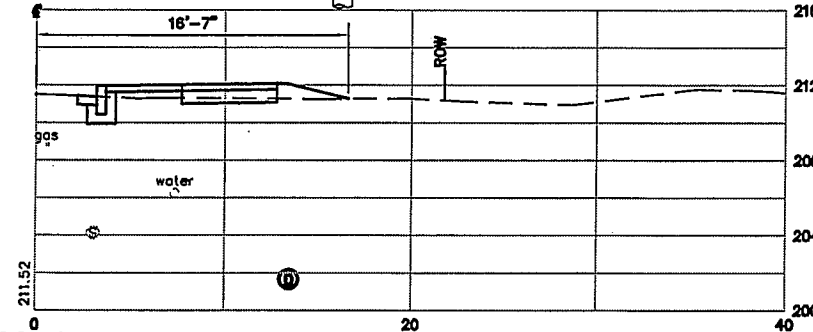


118+50

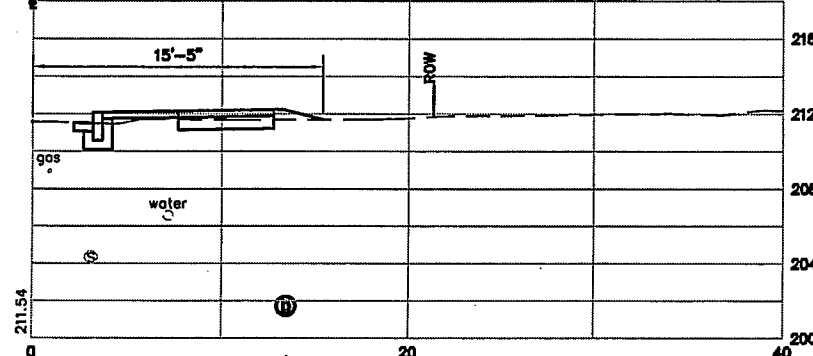


GAS MAIN HAS BEEN ABANDONED FROM APPROXIMATELY STA. 16+50 (AUBURN STREET) TO WILLAND POND ROAD. NEW MAIN WAS PLACED ON OPPOSITE SIDE OF RTE. 106 ALONG SHOULDER OF ROAD.

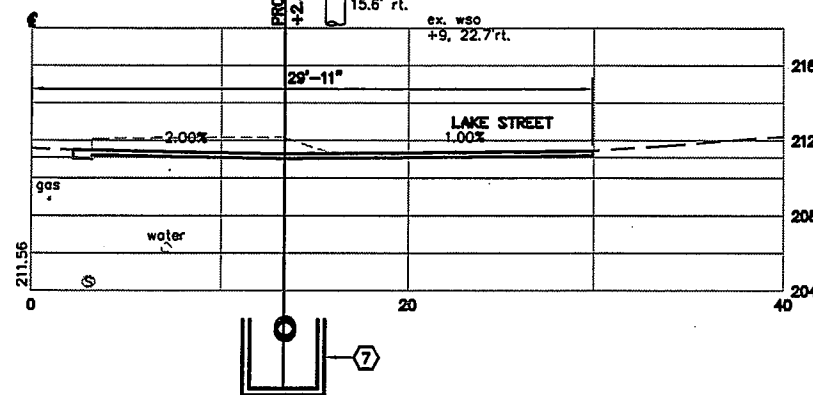
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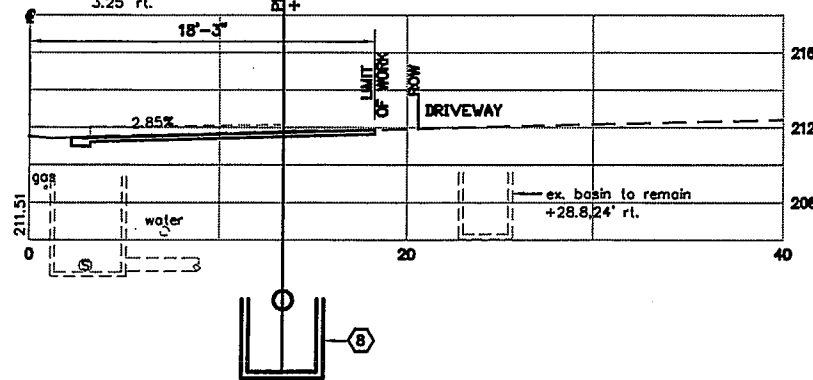
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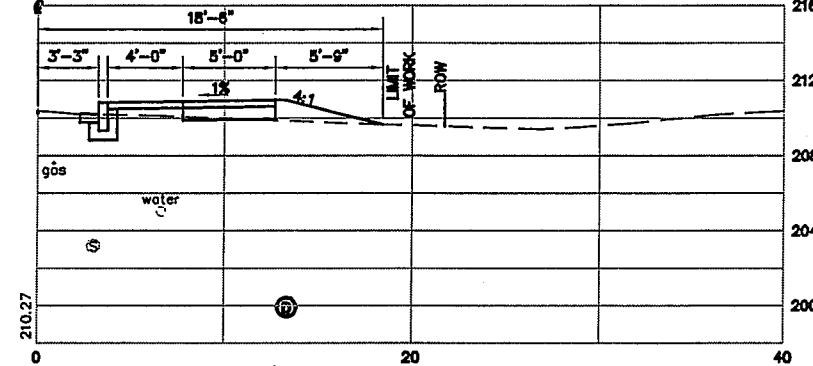
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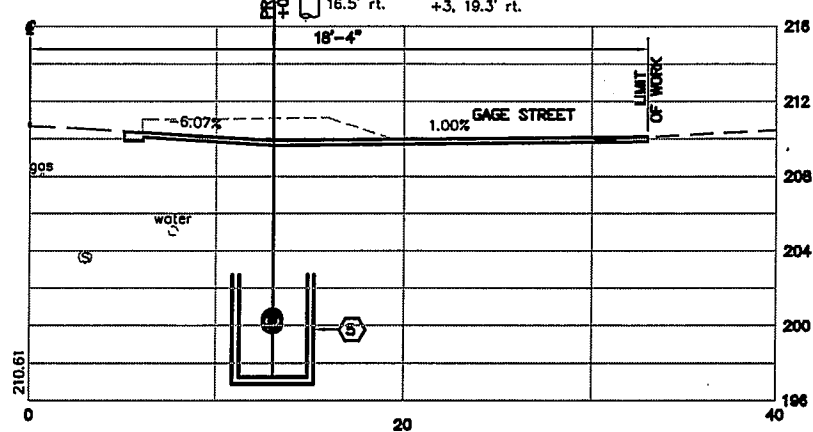
121+00



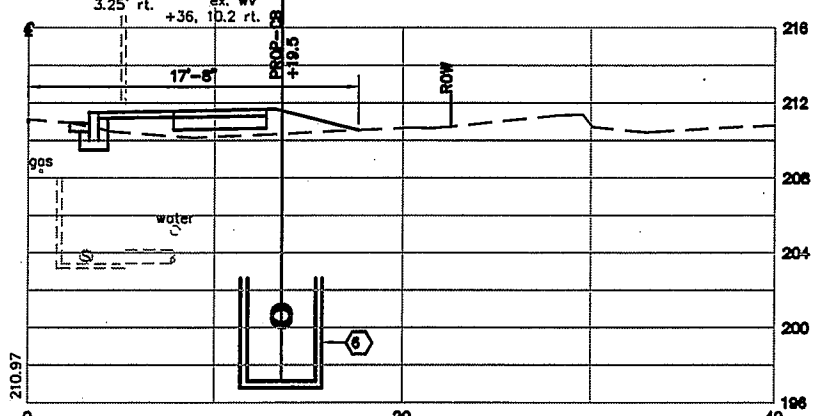
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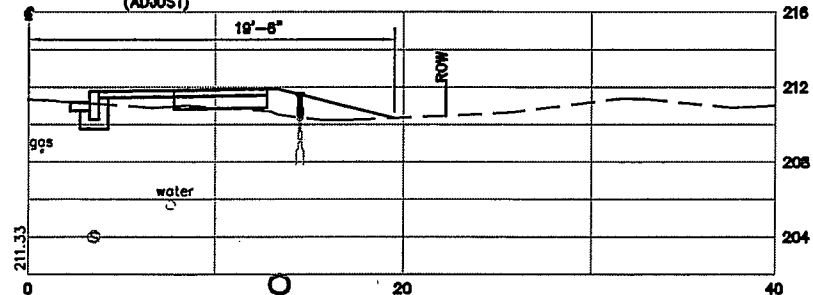
124+00



123+50



123+00



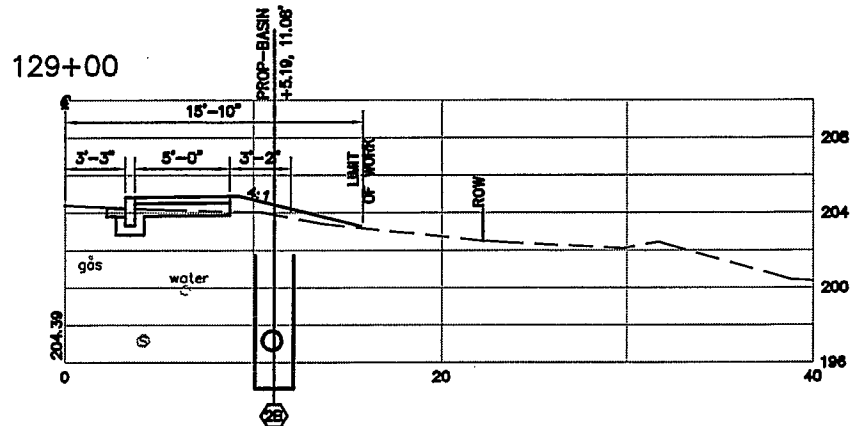
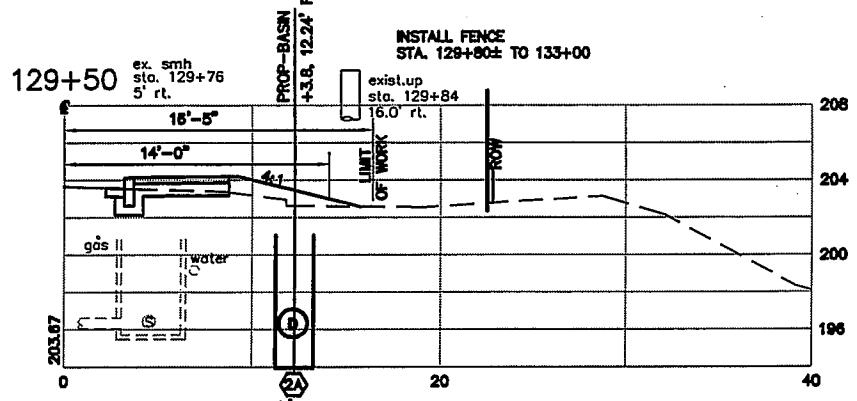
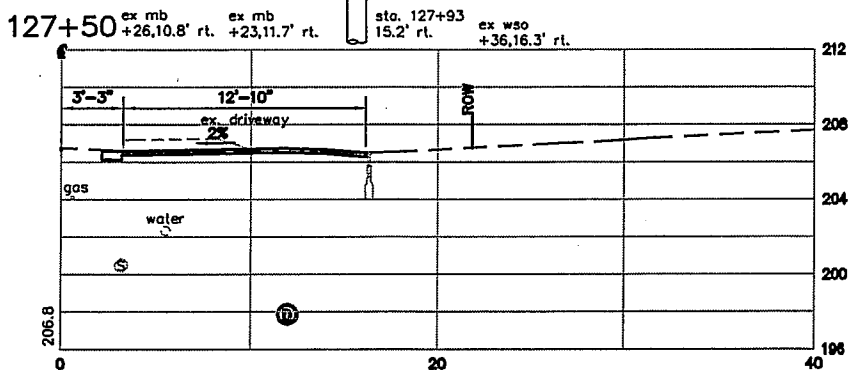
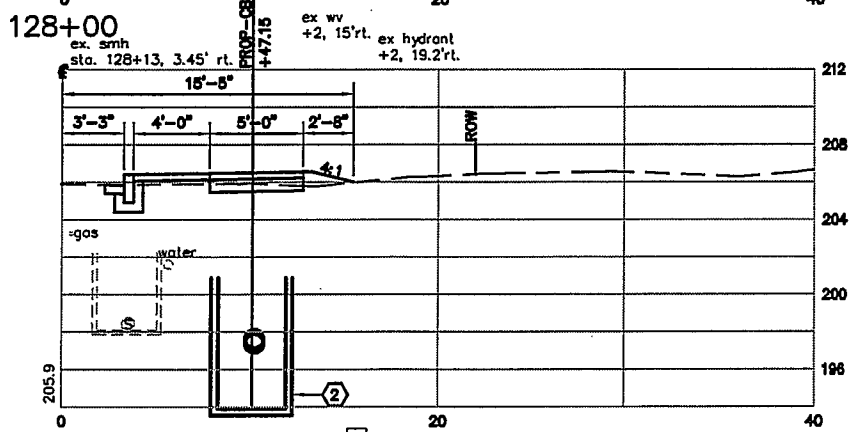
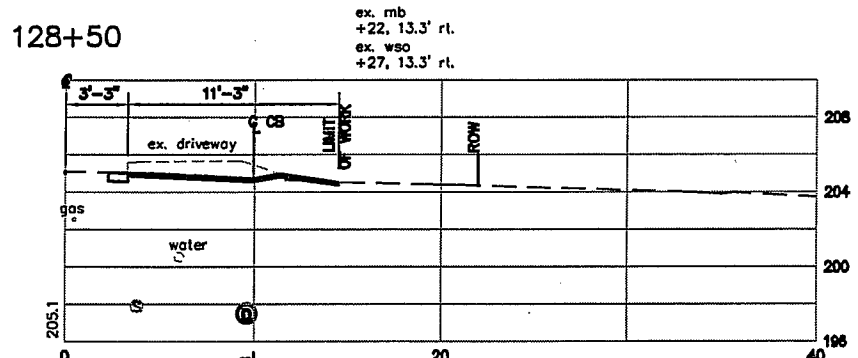
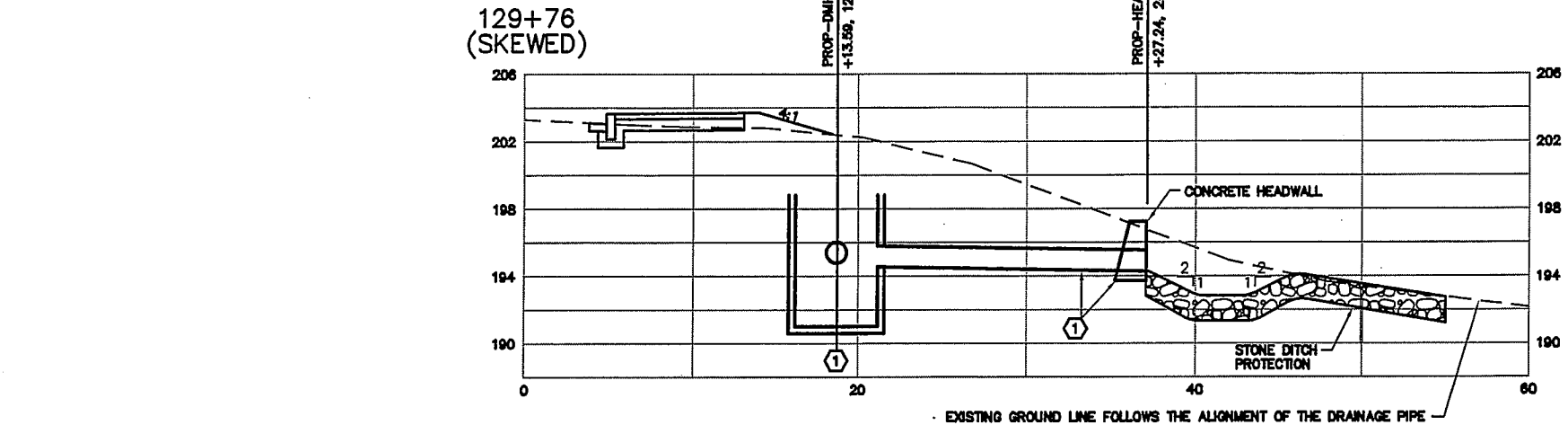
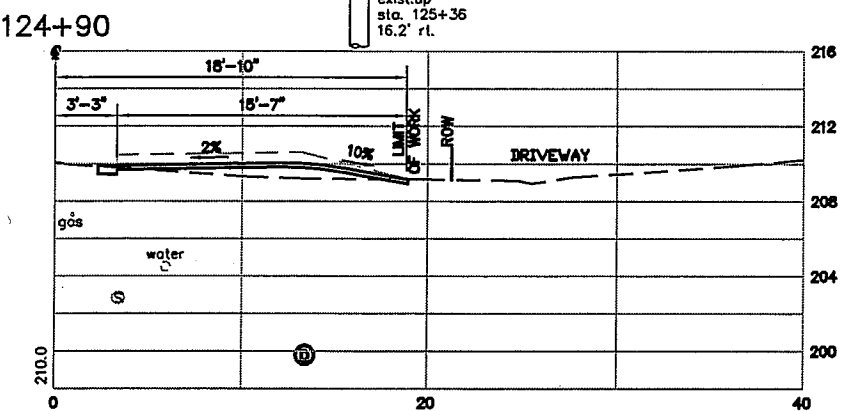
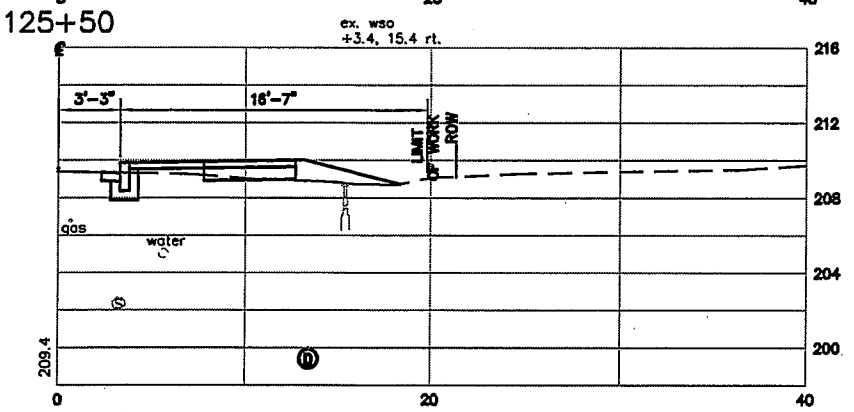
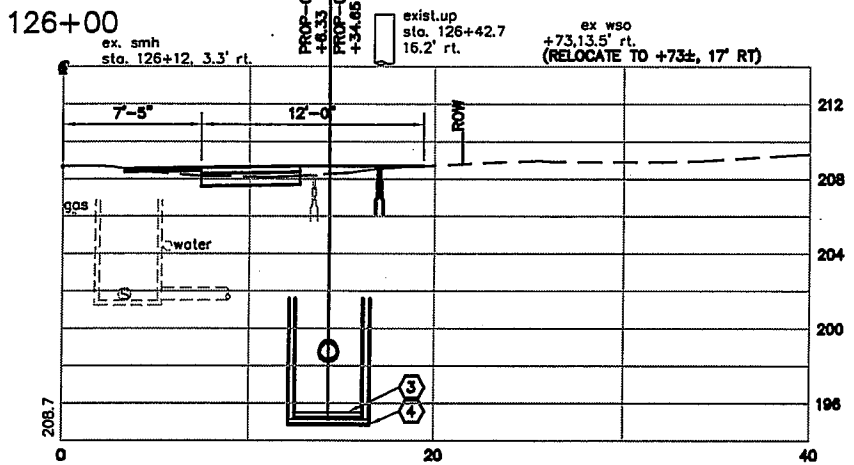
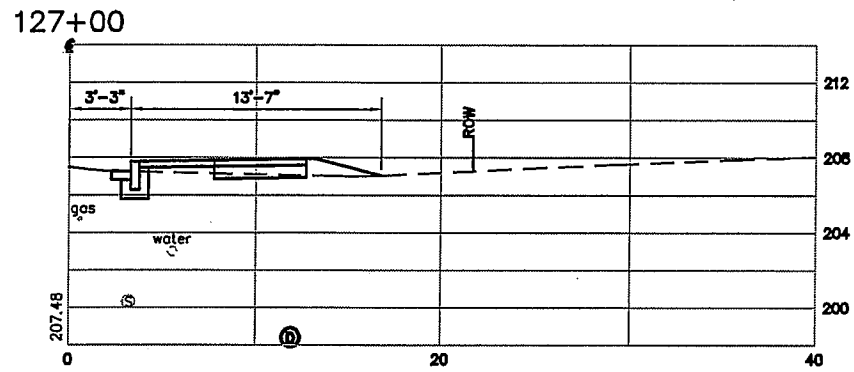
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	J.F.	J.F.
DRAWN:					
DAD					

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Peak Price Corporate Center
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Exeter, New Hampshire, Vermont

CLIENT:
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CITY HALL
DOVER, NH 03820

SIDEWALK CROSS SECTIONS
STATE PROJ. NO. 1284/2008
FED. PROJ. NO. SP-1-0000200
NEW ROCHESTER RD/ LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 030172
DATE: DEC 2007	DWG. 42



GAS MAIN HAS BEEN ABANDONED FROM APPROXIMATELY STA. 16+50 (AUBURN STREET) TO WILLAND POND ROAD. NEW MAIN WAS PLACED ON OPPOSITE SIDE OF RTE. 108 ALONG SHOULDER OF ROAD.

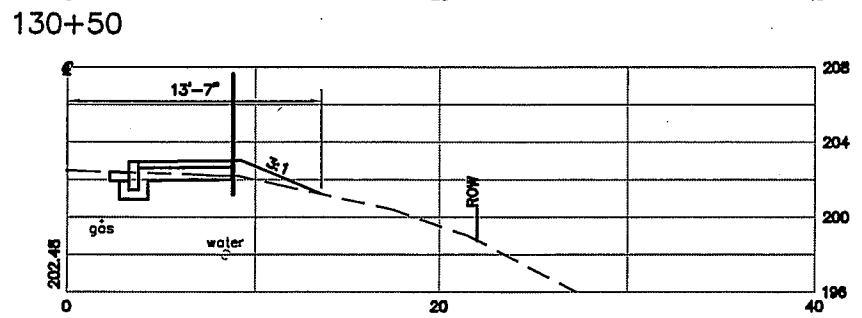
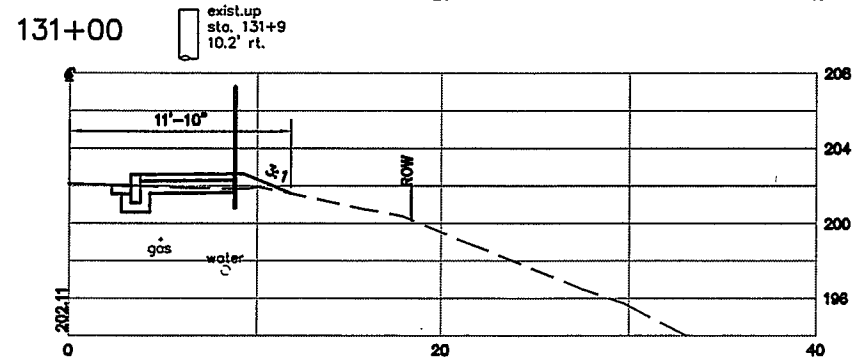
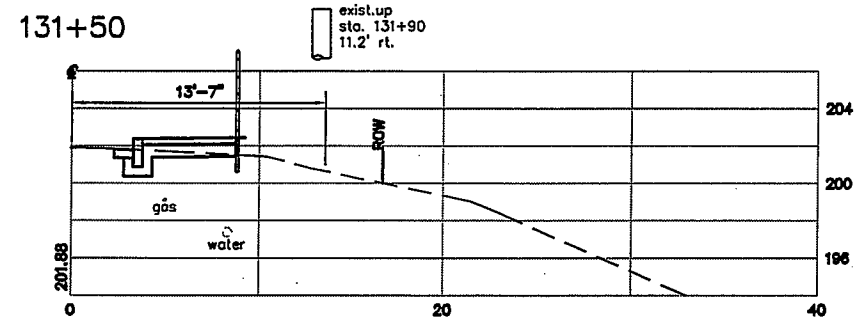
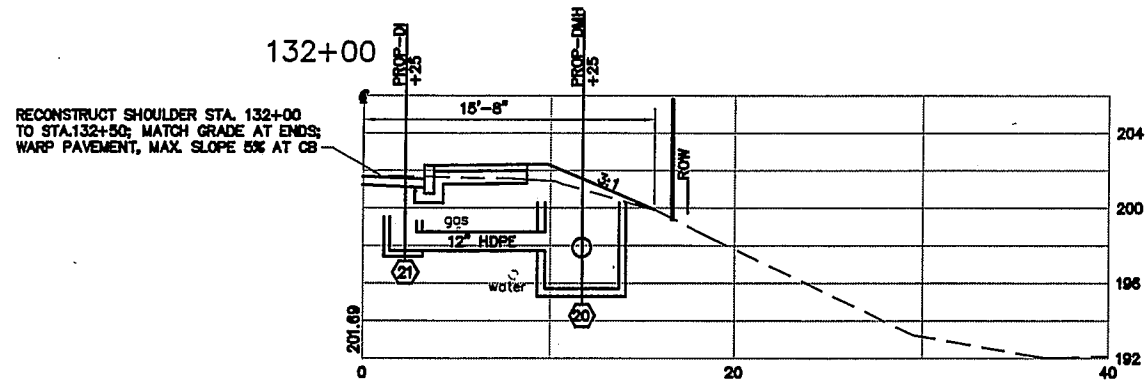
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	LF	LF
			DAD		

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 cid@pinkplace.com • www.pinkplace.com

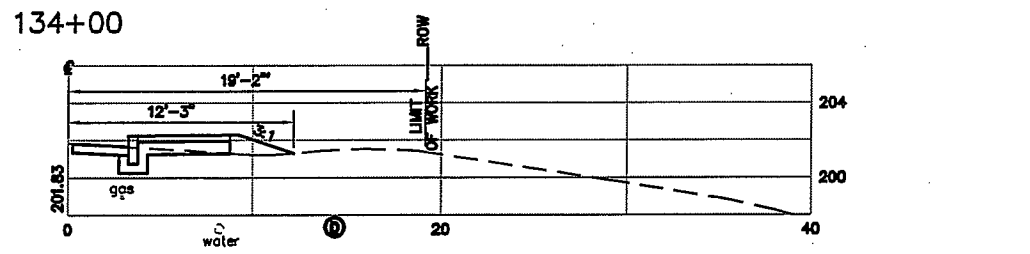
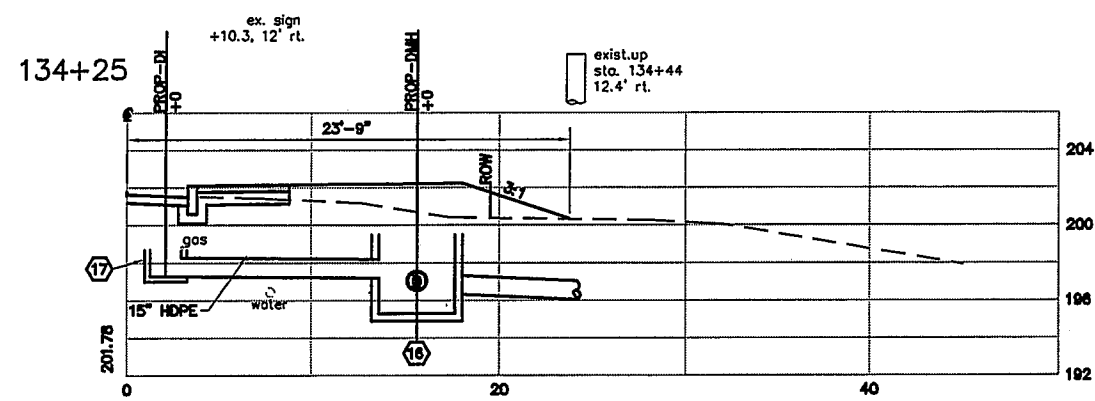
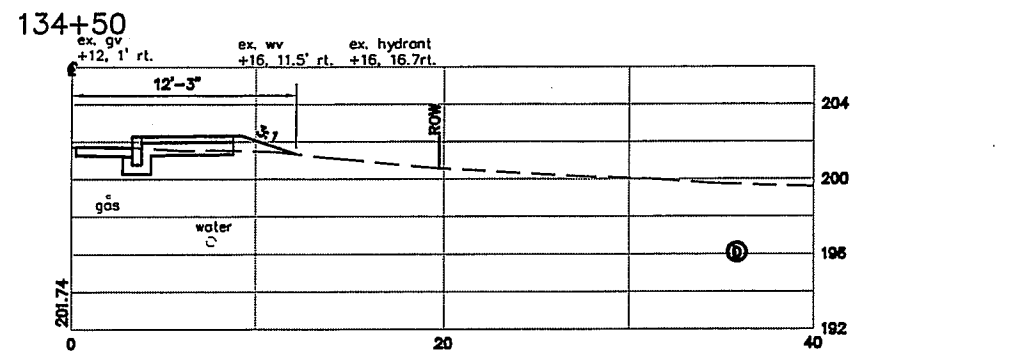
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

SIDEWALK CROSS SECTIONS
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 FED. PROJ. NO. SP-E-1-020204
 FED. PROJ. NO. SP-1-000202
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

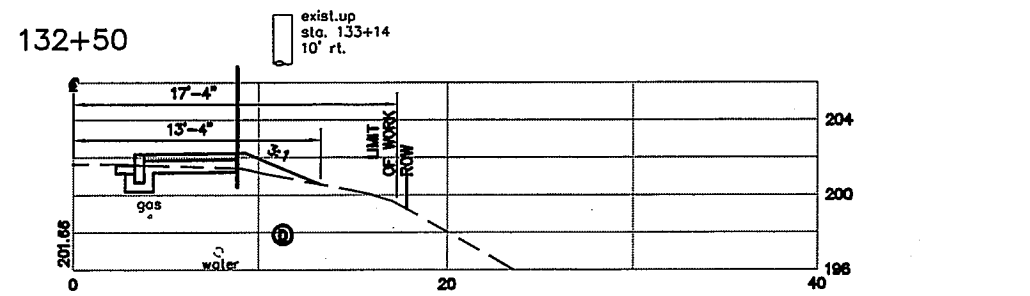
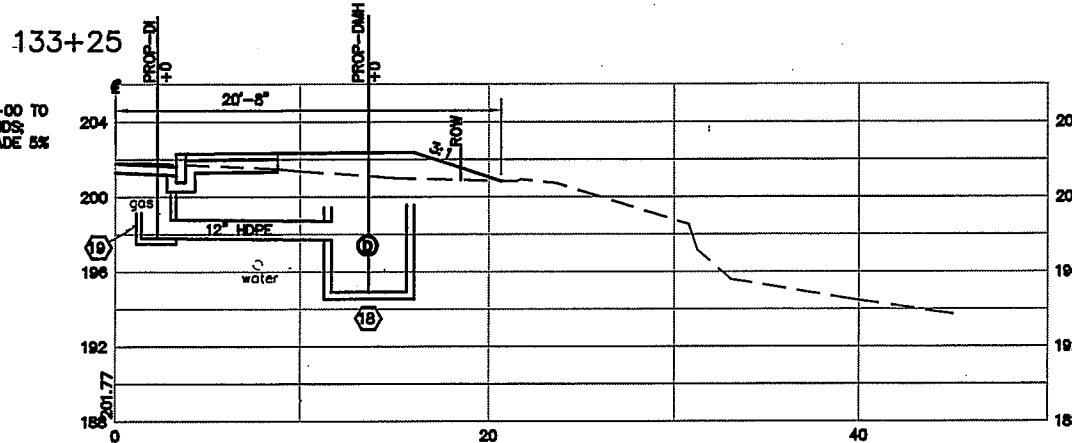
SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 43



GAS MAIN HAS BEEN ABANDONED FROM APPROXIMATELY STA. 16+50 (AUBURN STREET) TO WILLAND POND ROAD. NEW MAIN WAS PLACED ON OPPOSITE SIDE OF RTE. 108 ALONG SHOULDER OF ROAD.



RECONSTRUCT SHOULDER STA. 133+00 TO STA. 134+50; MATCH GRADE AT ENDS; WARP PAVEMENT AT D'S, MAX. GRADE 5%



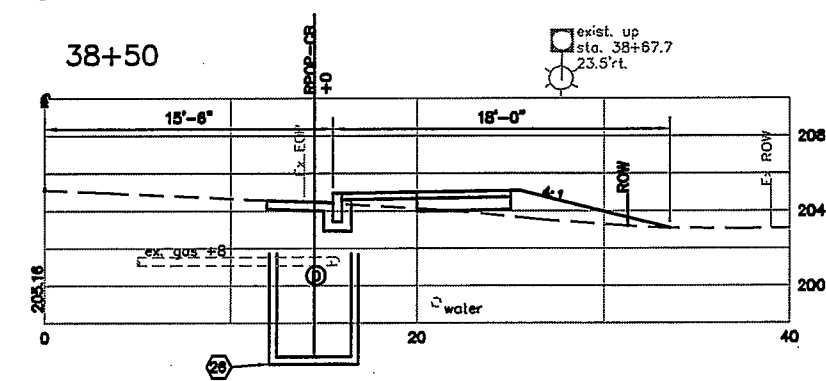
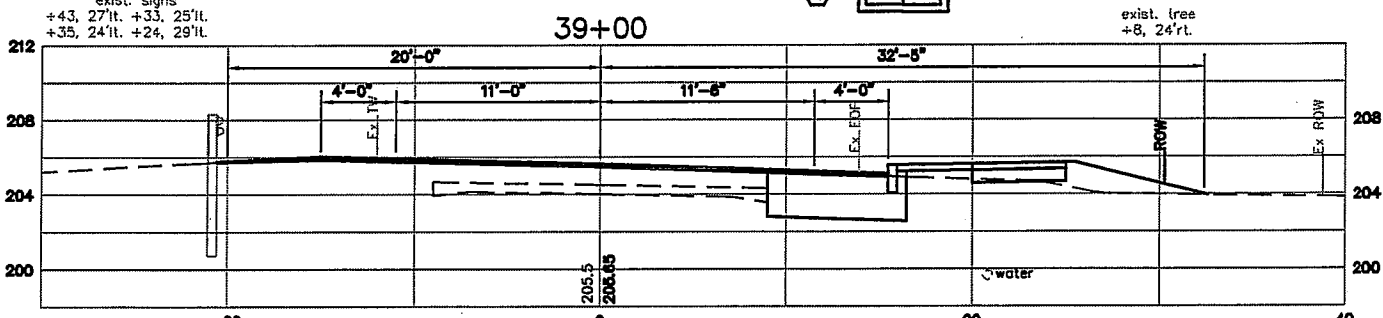
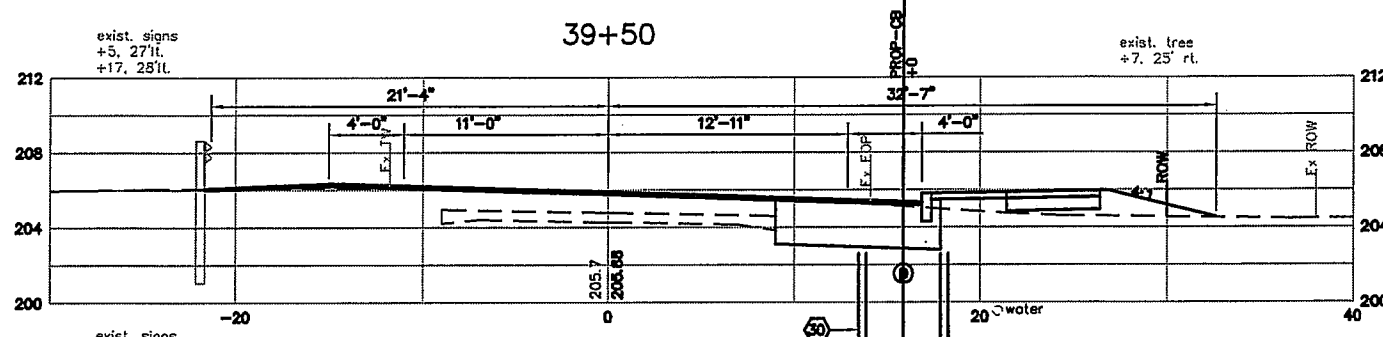
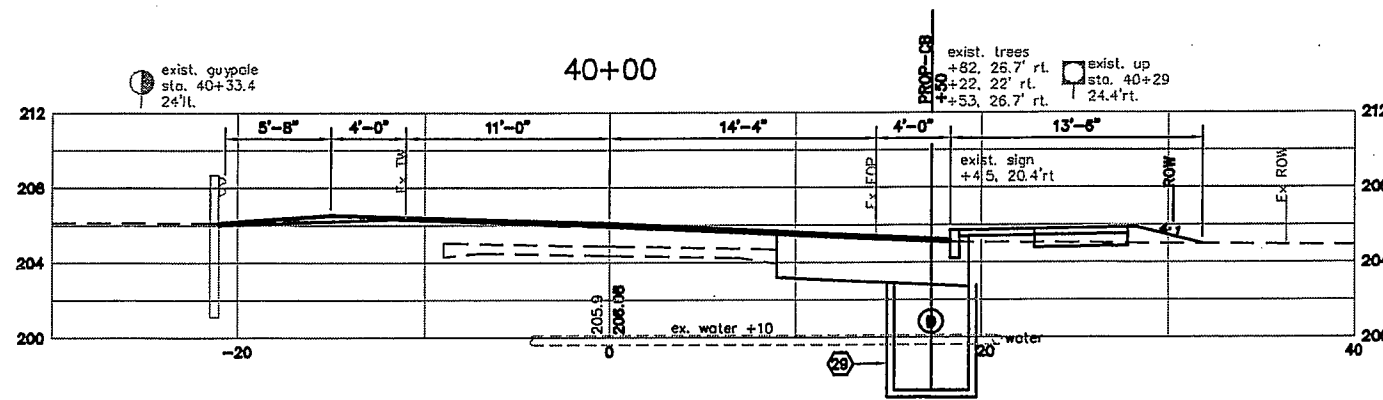
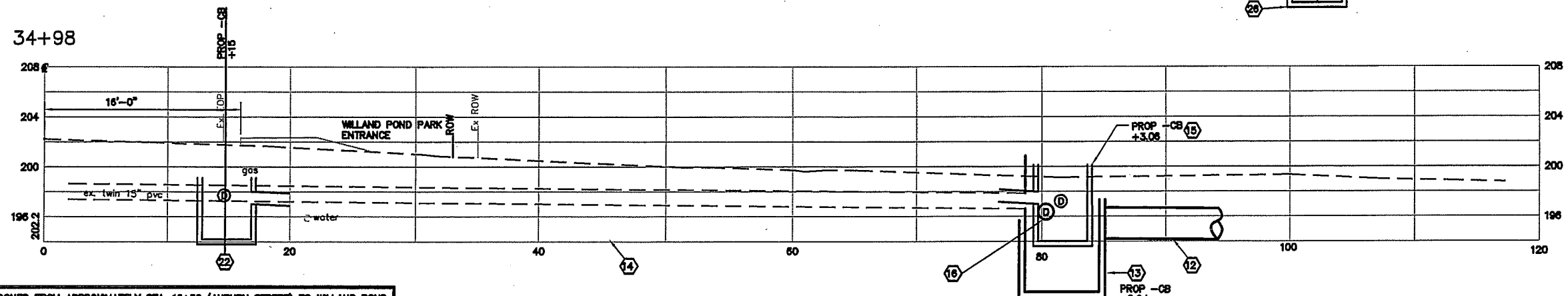
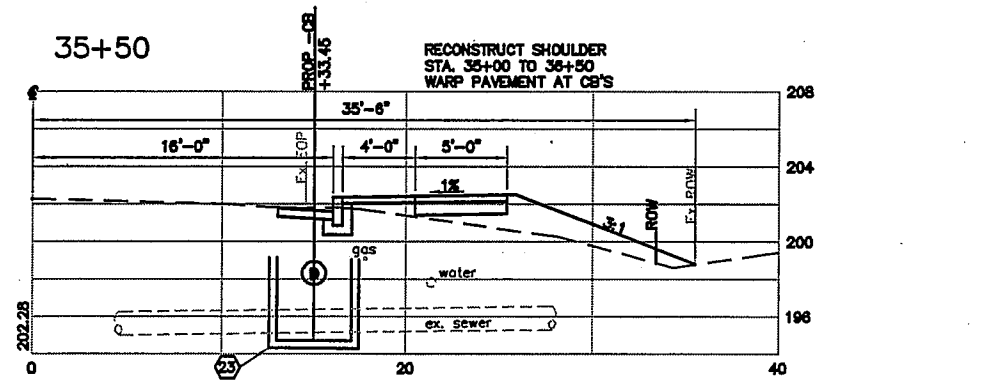
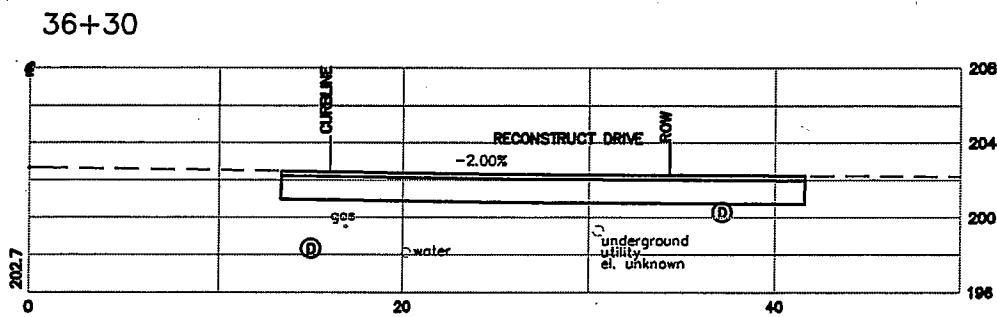
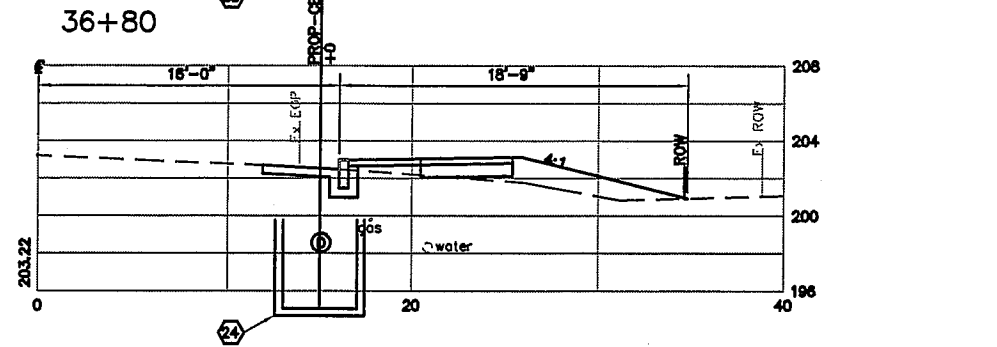
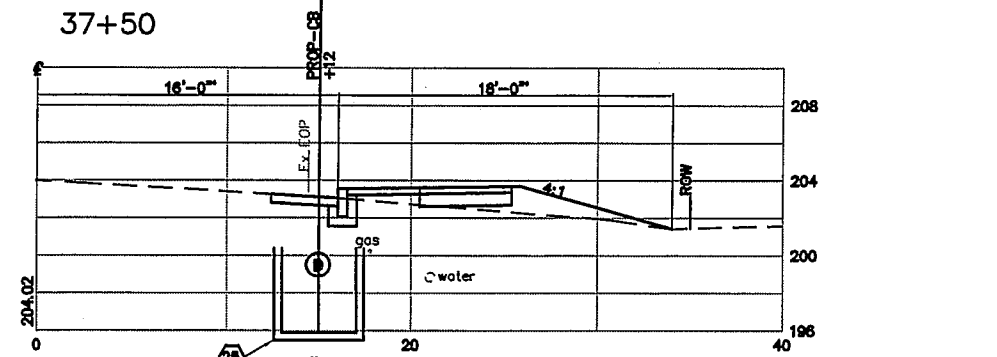
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JF	JF
DRAWN:					
DAD					

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 Park Place Corporate Center
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 (207) 363-6669 • Fax: (207) 363-2384
 ed@cdengineers.com • www.cdengineers.com
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CLIENT:
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

SIDEWALK CROSS SECTIONS
 STATE PROJ. NO. 1284/2008
 FEDERAL PROJ. NO. STP-NE-3-032(09)
 FEDERAL PROJ. NO. STP-3-0002(08)
NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 44



GAS MAIN HAS BEEN ABANDONED FROM APPROXIMATELY STA. 16+50 (AUBURN STREET) TO WILLAND POND ROAD. NEW MAIN WAS PLACED ON OPPOSITE SIDE OF RTE. 106 ALONG SHOULDER OF ROAD.

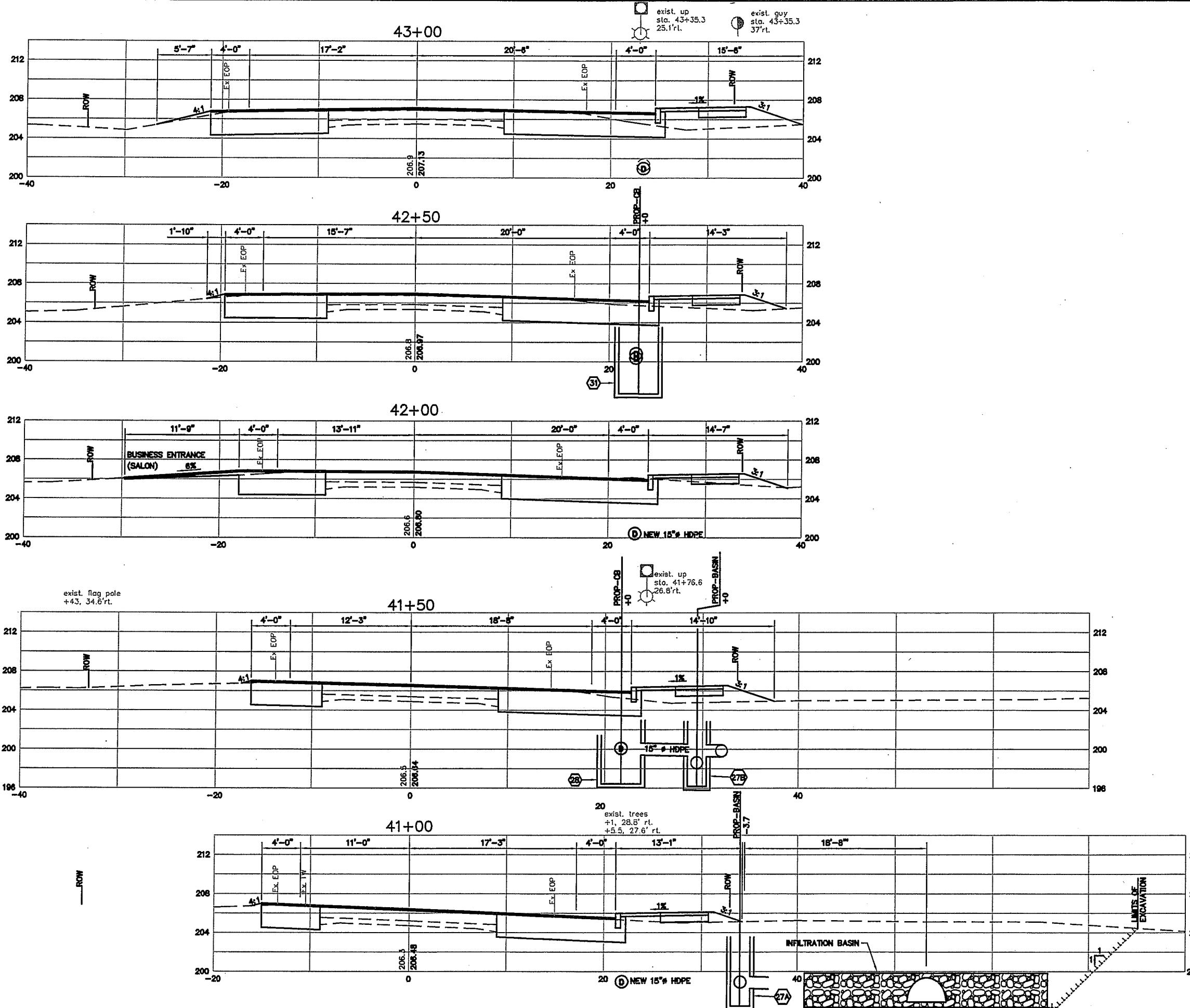
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	MF	MF
DRAWN:			DAD		

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 cid@cidengineers.com • www.cidengineers.com

CLIENT:
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

ROADWAY CROSS SECTIONS
 STATE PROJ. NO. 1284/2008
 FED. PROJ. NO. 57P-12-1-0002(01)
 FED. PROJ. NO. 57P-12-1-0002(02)
NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. NO. 45



NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JF	JF
DRAWN:					
DAD					

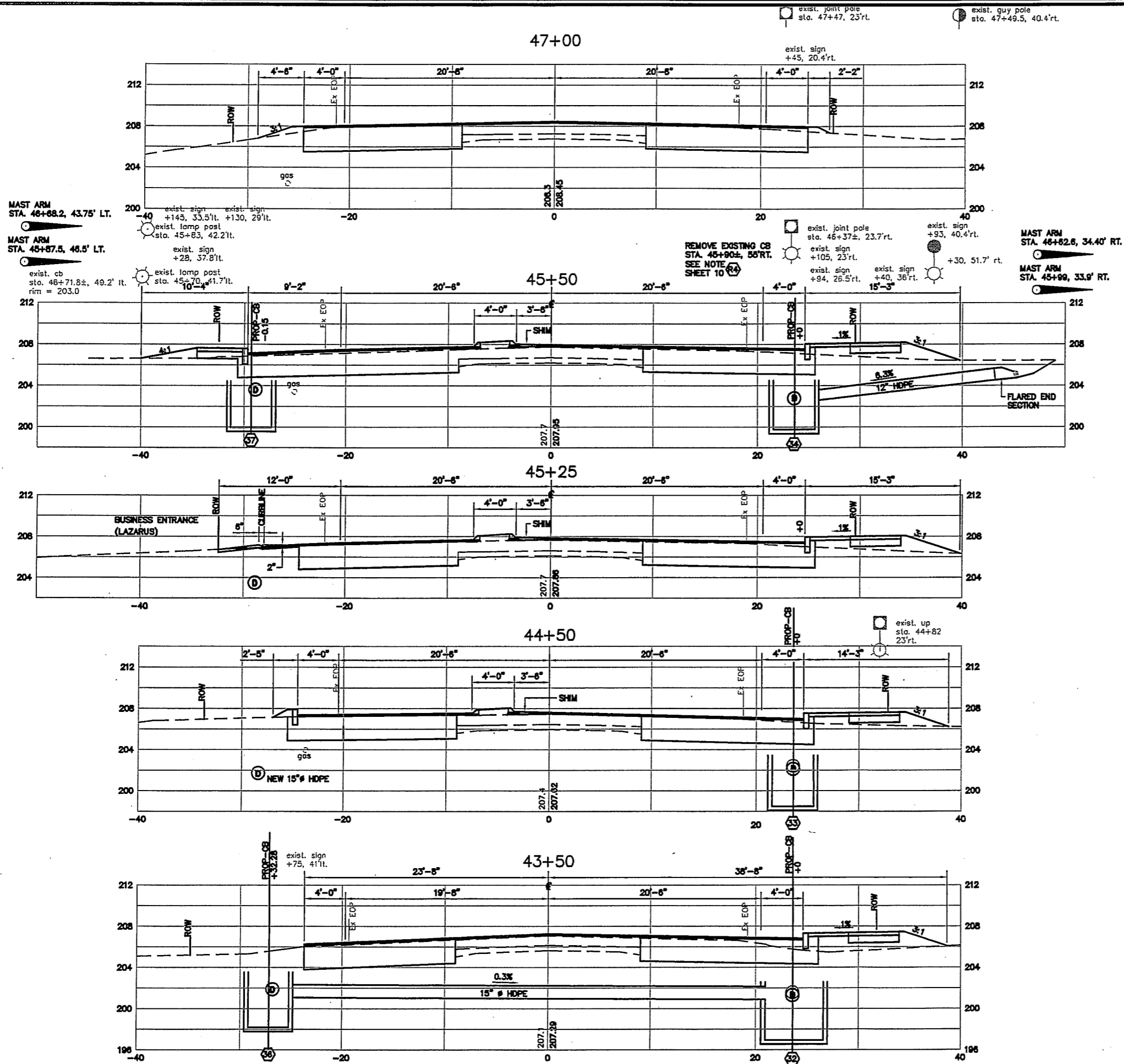
CONSULTING ENGINEERS
 Inc.
 Pink Place Corporate Center
 316 US Route 1, Suite D, York, ME 03909
 (207) 363-6669 • Fax: (207) 363-2384
 cid@cidengineers.com • www.cidengineers.com
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CITY OF DOWER
 CITY HALL
 DOWER, NH 03820

CLIENT:
 CITY OF DOWER
 CITY HALL
 DOWER, NH 03820

ROADWAY CROSS SECTIONS
 STATE PROJ. NO. 1284/1285
 STATE PROJ. NO. 57-12-1-020(10)
 FED. PROJ. NO. 57-12-1-020(20)
 NEW ROCHESTER RD / LONG HILL RD
 DOWER, NEW HAMPSHIRE

SCALE:	JOB NO.
1" = 5'	080172
DATE:	DWG.
DEC 2007	46



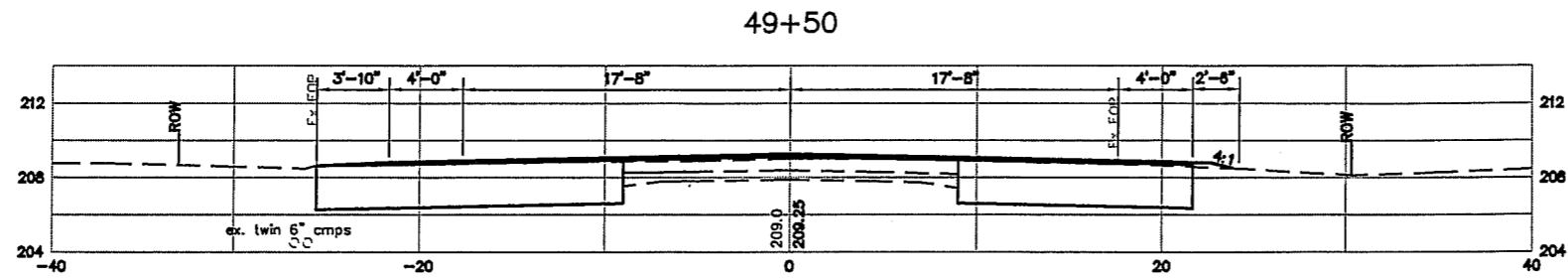
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JF	JF
			DRAWN:		
			DAD		

CONSULTING ENGINEERS
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 Engineers • Planners • Surveyors • Foresters

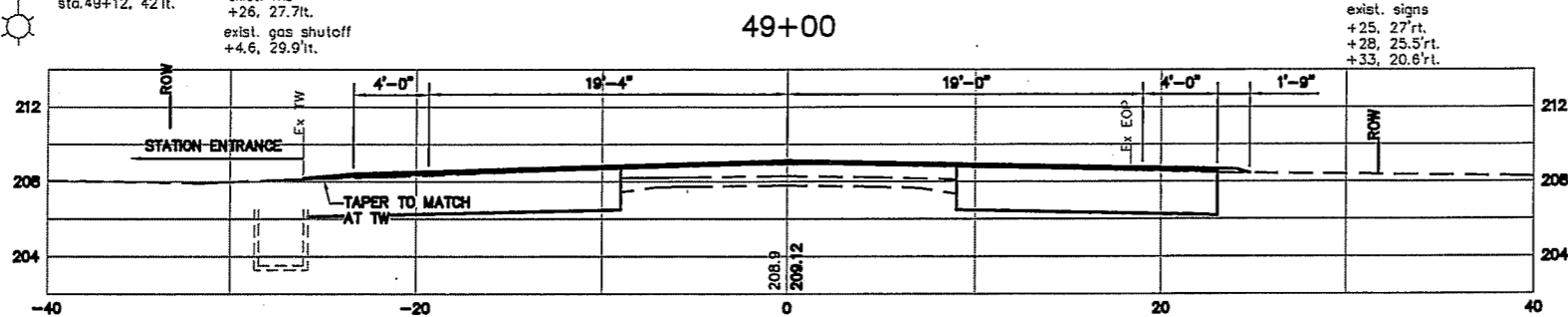
CITY OF DOVER
 CITY HALL
 DOVER, NH 03820

ROADWAY CROSS SECTIONS
 STATE PROJ. NO. 1284-4/2007
 FEDERAL PROJ. NO. SP-1-E-1-0002(01)
 FEDERAL PROJ. NO. SP-1-E-1-0002(02)
NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

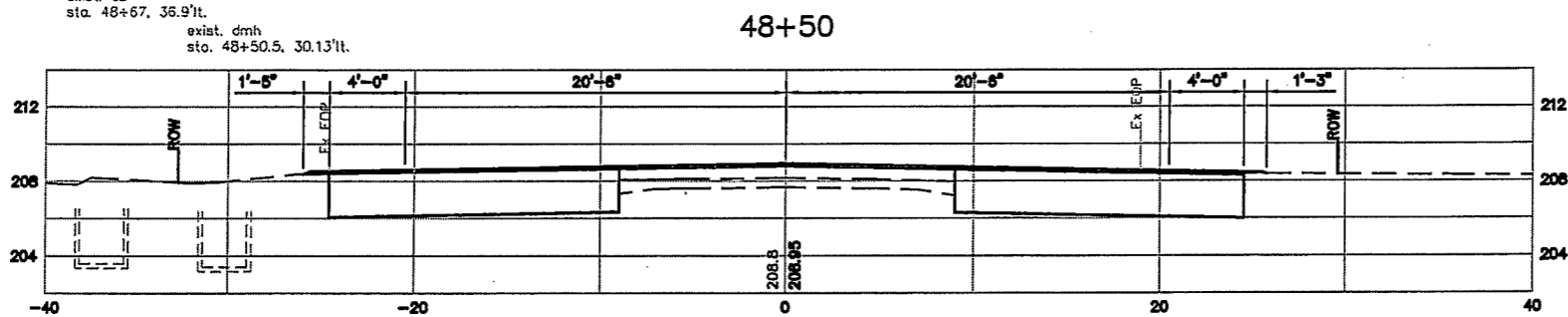
SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 47



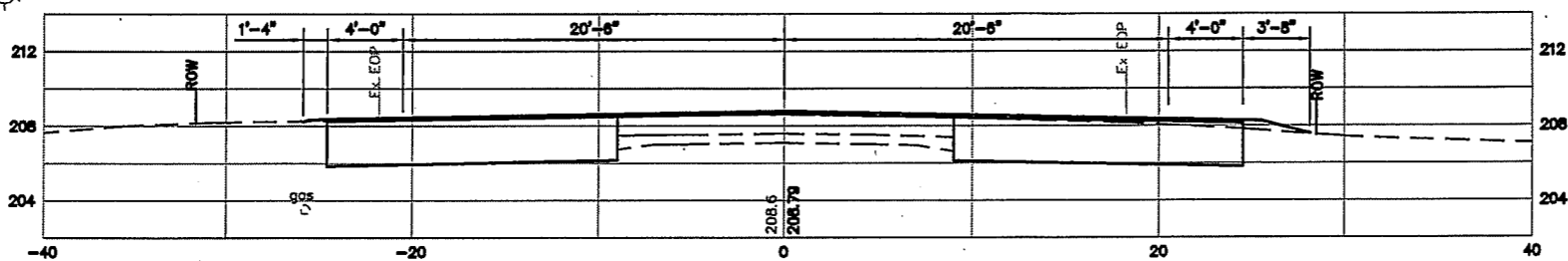
exist. light pole sta. 49+12, 42'lt.
 exist. cb sta. 49+32, 27.2'lt.
 exist. mb +26, 27.7'lt.
 exist. gas shutoff +4.6, 29.9'lt.
 exist. joint power sta. 49+29.5, 30.75'rt.
 exist. signs +25, 27'rt., +28, 25.5'rt., +33, 20.6'rt.



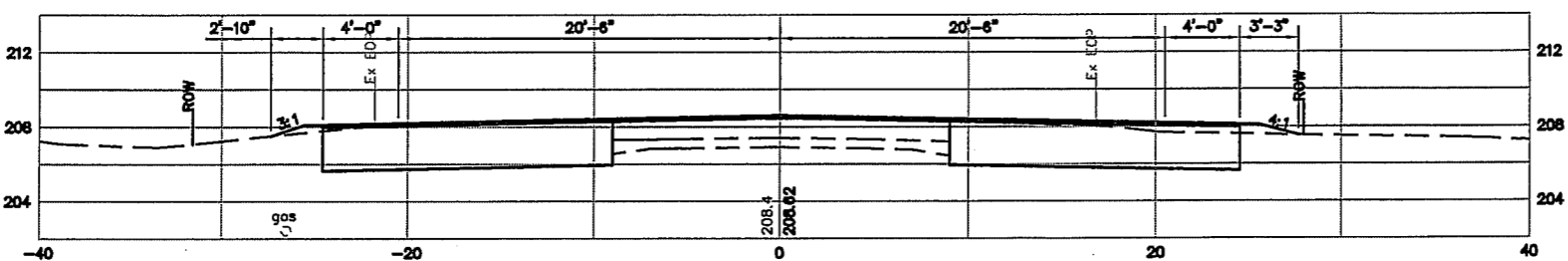
exist. cb sta. 48+67, 36.9'lt.
 exist. dmh sta. 48+50.5, 30.13'lt.



sto. 48+11±, 47.7'lt.
 exist. sign +35, 27'lt.



exist. sign +53, 47'lt.
 exist. guy anchor sta. 47+62.5, 20.3'rt.



NO.	DATE	REVISION	CHECKED:	APPROVED:
			RMW	MLF
DRAWN:		DAD		

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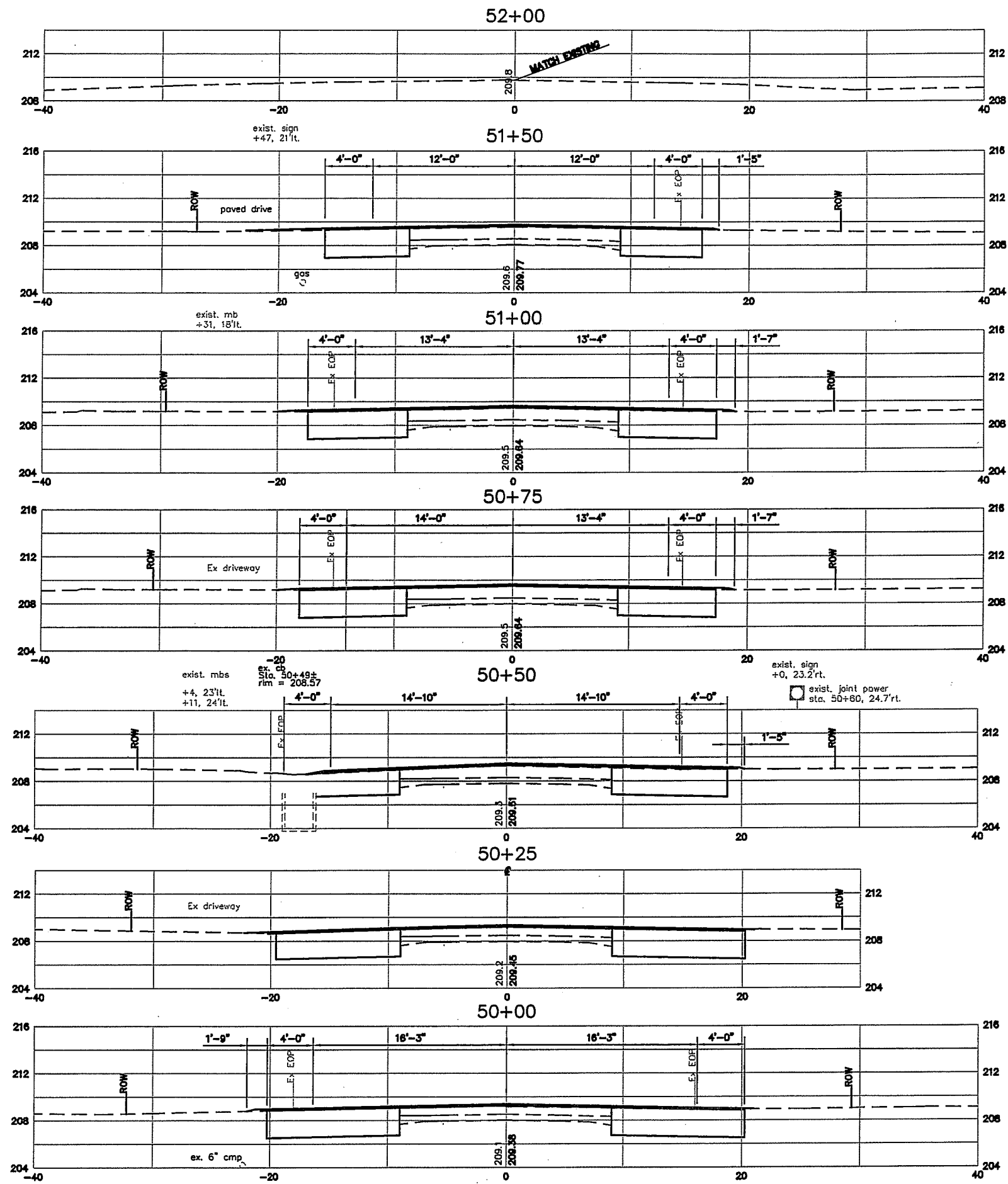
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CITY OF DOVER
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 DOVER, NH 03820

ROADWAY CROSS SECTIONS
 STATE PROJ. NO. 12644/12648
 FED. PROJ. NO. SP-1E-X-002(014)
 FED. PROJ. NO. SP-1E-X-002(200)
NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 48



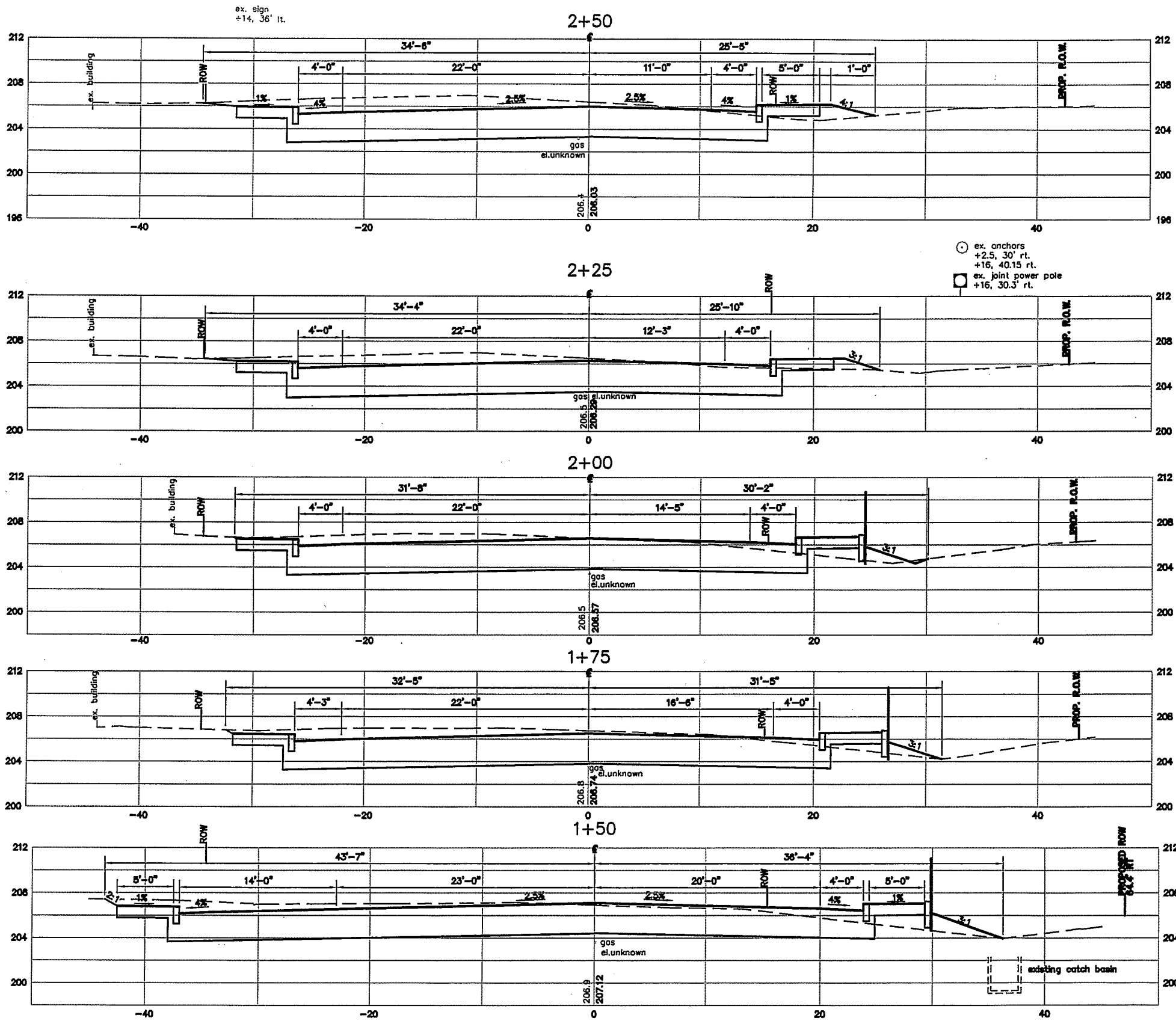
NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JLF	JLF
DRAWN:					
DAD					

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ROADWAY CROSS SECTIONS
STATE PROJ. NO. 12644/12648
FED. PROJ. NO. 57-E-X-002(04)
FED. PROJ. NO. 57-E-X-002(03)
NEW ROCHESTER RD / LONG HILL RD
DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 49



NO.	DATE	REVISION	CHECKED:	APPROVED:
			RAM	JLF
DRAWN:				
DAD				

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ROADWAY CROSS SECTIONS
 STATE PROJ. NO. 1964/1898
 FED. PROJ. NO. 57-E-X-002(04)
 FED. PROJ. NO. 57-X-002(20)
 NEW ROCHESTER RD / LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE:	JOB NO.
1" = 5'	000172
DATE:	DWG.
DEC 2007	50



ex. signs
 +29.25, 11' rt.
 +33, 12.4' rt.
 ex. joint pole
 +40, 16.3' rt.

ex. anchors
 +24.2, 15.6' rt.
 +45, 32.75' rt.

ex. wso
 +8.6, 26.6' rt.
 (RELOCATE TO +8.6, 29' RT.)

NO.	DATE	REVISION	DESIGNED:	CHECKED:	APPROVED:
			RAM	JLF	JLF
			DWG		

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ROADWAY
CROSS SECTIONS
 STATE PROJ. NO. 124-4/2888
 FED. PROJ. NO. SP-2-3-02(04)
 FED. PROJ. NO. SP-3-0002(02)
NEW ROCHESTER RD/ LONG HILL RD
 DOVER, NEW HAMPSHIRE

SCALE: 1" = 5'	JOB NO. 080172
DATE: DEC 2007	DWG. 51