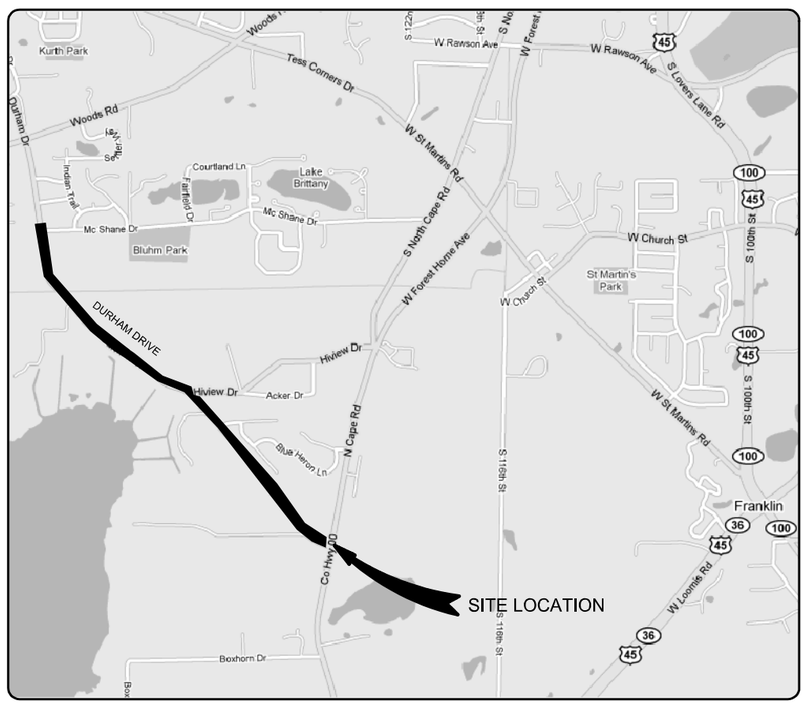
CONSTRUCTION DRAWINGS

DURHAM DRIVE RECONSTRUCTION

CITY OF MUSKEGO
FINAL PLANS

WAUKESHA COUNTY, WISCONSIN
FEBRUARY 2011



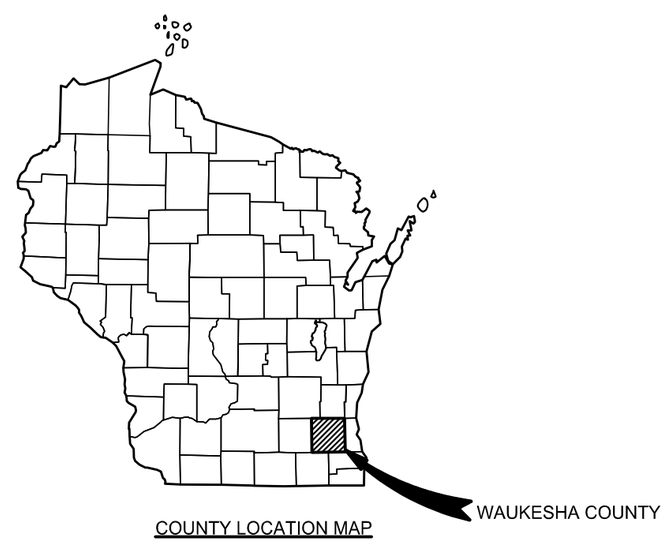
SITE LOCATION MAP
T. 5 N., R. 20 E.

N

Prepared By

Foth

PROJECT I.D. 09M032



COUNTY LOCATION MAP

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ACCEPTED:_____ DATE:_____
MUSKEGO CITY ENGINEER

STAMPS

TITLE SHEET | G0.01

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MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
SANITARY SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L) SAN	LENGTH - SIZE MATL SAN
SANITARY FORCE MAIN (PLAN) – LENGTH–DIA. MATERIAL	(SIZE & MAT'L) FM	LENGTH - SIZE MATL FM
STORM SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L.) STM	LENGTH - SIZE MATL STM
WATER MAIN (PLAN)– LENGTH–DIA. MATERIAL–(FITTING–FITTING)	(SIZE & MAT'L.) WM	LENGTH - SIZE MATL (FIT FIT) WM
SANITARY SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L)	XXX'- XX" PVC SAN @ 0.00%
SANITARY FORCEMAIN (PROFILE) – DIA. MATERIAL	(SIZE & MAT'L)	XXX'- XX" FORCEMAIN @ 0.00%
STORM SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L.)	XXX'- XX" RCP STM @ 0.00%
WATER MAIN (PROFILE)– DIA. MATERIAL	(SIZE & MAT'L.)	X" PVC WM.
DRAINAGE DITCH		
GAS MAIN	G	G
ELECTRIC – BURIED	E	E
ELECTRIC – OVERHEAD	OHE	OHE
TELEPHONE – BURIED	T	T
TELEPHONE – BURIED (FIBER OPTIC)	FO	FO
TELEPHONE – OVERHEAD	OHT	OHT
CABLE TELEVISION – BURIED	CTV	CTV
CABLE TELEVISION – OVERHEAD	OHC	OHC
OVERHEAD CABLE (MISCELLANEOUS)	OH	OH
CENTERLINE		
SURVEY LINE	PI	PI
CONSTRUCTION REFERENCE LINE		
RIGHT–OF–WAY LINE	ROW	ROW
PROPERTY LINE		
EASEMENT LINE		
SECTION LINE		
QUARTER SECTION LINE		
OFFSET OR SETBACK LINE		
PAVEMENT (STREET, DRIVE, SIDEWALK, ETC.)		
GRAVEL		
CURB & GUTTER		
RAILROAD		
FENCE – AS LABELED		
SWING GATE		
SLIDE GATE		
GUARDRAIL		
EDGE OF RIVER OR LAKE		
MARSH OR WETLAND		

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
BENCH MARK	BM 5 ELEV 891.22	
CATCH BASIN/INLET		
CLEAN OUT		
CONTROLLER BOX		
CONTROL POINT	CP	CP
CULVERT	(DIA. & TYPE)	(LENGTH-DIA. & TYPE)
CURB STOP G=GAS W=WATER	G OR W	G OR W
DRAINAGE ARROW		
ELECTRIC PEDESTAL		
ELECTRIC TRANSFORMER		
FIRE ALARM BOX	F	F
FIRE HYDRANT		
GAS PROBE		
GAS VENT		
GUY ANCHOR		
GUY POLE		
IRON PIPE = IP IRON ROD = IR	IP OR IR	IP OR IR
LIFT STATION	LS	LS
LIGHT – ORNAMENTAL		
LIGHT – STREET		
MAILBOX	MB	
CENTER SECTION	CENTER SECTION 32	
SECTION CORNER	SECTION NWNE SWSE CORNER	

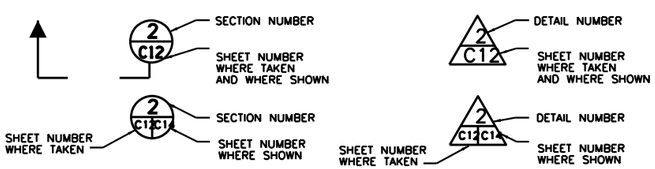
MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
MANHOLE ELECTRIC	E	
MANHOLE GAS	G	
MANHOLE MISCELANEOUS	MH	MH
MANHOLE SANITARY	SA	SAN MH
MANHOLE SIGNAL	SI	SIG MH
MANHOLE STORM	ST	STM MH
MANHOLE STORM INLET CATCH BASIN		
MANHOLE WATER	W	W
MANHOLE TELEPHONE	T	
METER – GAS	G	
METER – WATER	W	
PARKING METER	PM	PM
PEDESTAL CABLE TV		
PEDESTAL TELEPHONE		
REBAR	RB	RB
RIGHT–OF–WAY MARKER	ROW	
RAILROAD SIGNAL	RR	RR
TRAFFIC JUNCTION BOX		
SOIL BORING	B	B
SIGN		
SEPTIC TANK		
STUMP	24"	
SHRUB		
BUSH CONIFER		
BUSH DECIDUOUS		
CHECK DAM		

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
TREE DECIDUOUS/INCH DIA	12"	
TREE CONIFEROUS/INCH DIA	10"	
TREE LINE		
TRANSMISSION TOWER		
WELL (WATER SUPPLY) W=WATER M=MONITORING O=OBSERVATION G=GAS	W/M/O/G	W/M/O/G
VALVE: W=WATER, G=GAS	W OR G	W OR G
UTILITY POLE		
UTILITY POLE W/TRANSFORMER	T	T
UTILITY & LIGHT POLE		
RIPRAP		
ROCK FILLED FILTER BAG		
EROSION BALES		
SILT FENCE	SF	SF
MAJOR CONTOURS	890	890
MINOR CONTOURS		
DEPRESSION		
SPOT ELEVATIONS	+891.2	+891.22
FEDERAL HIGHWAY	141	
INTERSTATE HIGHWAY	43	
STATE TRUNK HIGHWAY	29	
COUNTY TRUNK HIGHWAY	A	
ASPHALT TO BE REMOVED AND REPLACED		
CONCRETE TO BE REMOVED AND REPLACED		
GRAVEL TO BE REMOVED AND REPLACED		
GRADE ELEVATION (PROFILE)	840.98(EXISTING) 839.81 (PROPOSED)	

DETAIL DESIGNATION



SECTION

DETAIL

LIST OF STANDARD ABBREVIATIONS

△	CENTRAL ANGLE OR DELTA	ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)	MH	MANHOLE	RR	RAILROAD
ADT	AVERAGE DAILY TRAFFIC	EMB	EMBANKMENT	MP	MARKER POST	RT	RIGHT
AGGR	AGGREGATE	ENTR	ENTRANCE	MW	METER–WATER OR MONITORING WELL	RW	RETAINING WALL
AH	AHEAD	EP	EDGE OF PAVEMENT	N	NORTH	S	SOUTH
ASPH	ASPHALT	ET	ELECTRIC TRANSFORMER	NB	NORTHBOUND	SALV	SALVAGE
B/B	BACK TO BACK	EW	ENDWALL	NC	NORMAL CROWN	SAN	SANITARY
BARR	BARRICADE	EXC	EXCAVATION	NE	NORTHEAST	SC	STORM CONNECTION
BOC	BACK OF CURB	EXIST	EXISTING	NO	NUMBER	SB	SOUTHBOUND
BK	BACK	F	FILL	NTS	NOT TO SCALE	SDWK	SIDEWALK
BLDG	BUILDING	F/F	FACE TO FACE	NW	NORTHWEST	SE	SOUTHEAST
BM	BENCH MARK	FDN	FOUNDATION	O	OIL	SF	SILT FENCE
BSMT	BASEMENT	FE	FIELD ENTRANCE	O&C	OIL & CHIP	SIG	SIGNAL
C	CUT	FERT	FERTILIZER	OBLIT	OBLITERATE	SL	SANITARY LATERAL
C&G	CURB AND GUTTER	FH	FIRE HYDRANT	OD	OUTSIDE DIAMETER	SQ FT	SQUARE FEET
C/C	CENTER TO CENTER	FIN GR	FINISHED GRADE	PC	POINT OF CURVATURE	SHLDR	SHOULDER
CABC	CRUSHED AGGREGATE BASE COURSE	FL	FLOW LINE	PCC	POINT OF COMPOUND CURVE	SQ YD	SQUARE YARD
CB	CATCH BASIN	FM	FORCE MAIN	PED	PEDESTAL	SSD	STOPPING SIGHT DISTANCE
CE	CONSTRUCTION ENTRANCE	FO	FIBER OPTIC	PLE	PERMANENT LIMITED EASEMENT	STA	STATION
CIP	CAST IRON PIPE	FT	FOOT	PVMT	PAVEMENT	STD	STANDARD
CL	CENTERLINE	FTG	FOOTING	PCC	PORTLAND CEMENT CONCRETE	STH	STATE TRUNK HIGHWAY
CMP	CORRUGATED METAL PIPE	G	GAS	PE	PRIVATE ENTRANCE	STM	STORM OR STORM SEWER
CNTY	COUNTY	GV	GAS VALVE	PI	POINT OF INTERSECTION	STP	SEWAGE TREATMENT PLANT
CO	CLEAN OUT	GW	GUY WIRE	PJF	PRE–FORMED JOINT FILLER	STRUCT	STRUCTURE OR STRUCTURAL
CONC	CONCRETE	HDPE	HIGH DENSITY POLYETHYLENE	PL	PROPERTY LINE	SW	SOUTHWEST
CONSTR	CONSTRUCTION	HORIZ	HORIZONTAL	POC	POINT OF CURVE	TAN	TANGENT
CONSTR JT	CONSTRUCTION JOINT	HR	HANDICAP RAMP	POT	POINT ON TANGENT	T	TOWN (T WHEN USED FOR TELEPHONE LINE)
CP	CONTROL POINT	HSE	HOUSE	PP	POWER POLE	TEL	TELEPHONE
CTH	COUNTY TRUNK HIGHWAY	HT	HEIGHT	PRC URE	POINT OF REVERSE CURVATURE	TEMP	TEMPORARY
CTRL JT	CONTROL JOINT	I	INTERSECTION ANGLE	PROJ	PROJECT	TLE	TEMPORARY LIMITED EASEMENT
CTV	CABLE TV	ICS	INTERNAL CHIMNEY SEAL	PROP	PROPOSED	TOC	TOP OF CURB
CU YD	CUBIC YARD	ID	INSIDE DIAMETER	PSI	POUND PER SQUARE INCH	TRANS	TRANSITION
CS	CURB STOP	IN	INCH	PT	POINT OF TANGENCY	TYP	TYPICAL
D	DEGREE OF CURVE	INL	INLET	PVC OR	POLYVINYL CHLORIDE	UG	UNDERGROUND
DD	DIRECTIONAL DRILLED	INTERS	INTERSECTION	PVC	POINT OF VERTICAL CURVATURE	USH	US HIGHWAY
DEG	DEGREE	INV	INVERT	PVI	POINT OF VERTICAL INTERSECTION	VC	VERTICAL CURVE
DIA	DIAMETER	IP	IRON PIPE OR PIN	PVRC	POINT OF VERTICAL REVERSE CURVE	VERT	VERTICAL
DI	DUCTILE IRON PIPE	JCT	JUNCTION	PVT	POINT OF VERTICAL TANGENCY	VOL	VOLUME
DISCH	DISCHARGE	L	LENGTH (OF CURVE)	R	RANGE OR RADIUS	W	WEST
DW	DRIVEWAY	LC	LONG CHORD OF CURVE	RCP	REINFORCED CONCRETE PIPE	WB	WESTBOUND
E	EAST	LP	LIGHT POLE	REBAR	REINFORCEMENT BAR	WM	WATER MAIN
EA	EACH	LS	LIFT STATION OR LUMP SUM	REL	RELOCATE	WS	WATER SERVICE
EB	EAST BOUND	LT	LEFT	REM	REMAINING	WTP	WATER TREATMENT PLANT
EBS	EXCAVATION BELOW SUBGRADE	MAINT	MAINTENANCE	REQD	REQUIRED	WV	WATER VALVE
ECS	EXTERNAL CHIMNEY SEAL	MATL	MATERIAL	RL	REFERENCE LINE	WWTP	WASTE WATER TREATMENT PLANT
EL	ELEVATION	MB	MAILBOX	ROW	RIGHT–OF–WAY	YD	YARD
		MG	METER–GAS	RP	REFERENCE POINT		

Foth
Foth Infrastructure & Environment, LLC
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO

MUSKEGO, WISCONSIN

WAUKESHA COUNTY

NO.	BY	DATE	DESCRIPTION
△			
△			
△			
△			

REVISION / ISSUE

RECORD DRAWING OF COMPLETED CONSTRUCTION BY

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.
BY_____ DATE_____

DATE OF PREPARATION

	BY	DATE
SURVEYED	TAA	
DRAWN	GTW	02/23/10
DESIGNED	CLM1	02/23/10
CHECKED	PAV	05/14/10

STANDARD SYMBOL & ABBREVIATION SHEET

SCALE: NONE

PROJECT ID 09M032

G0.02

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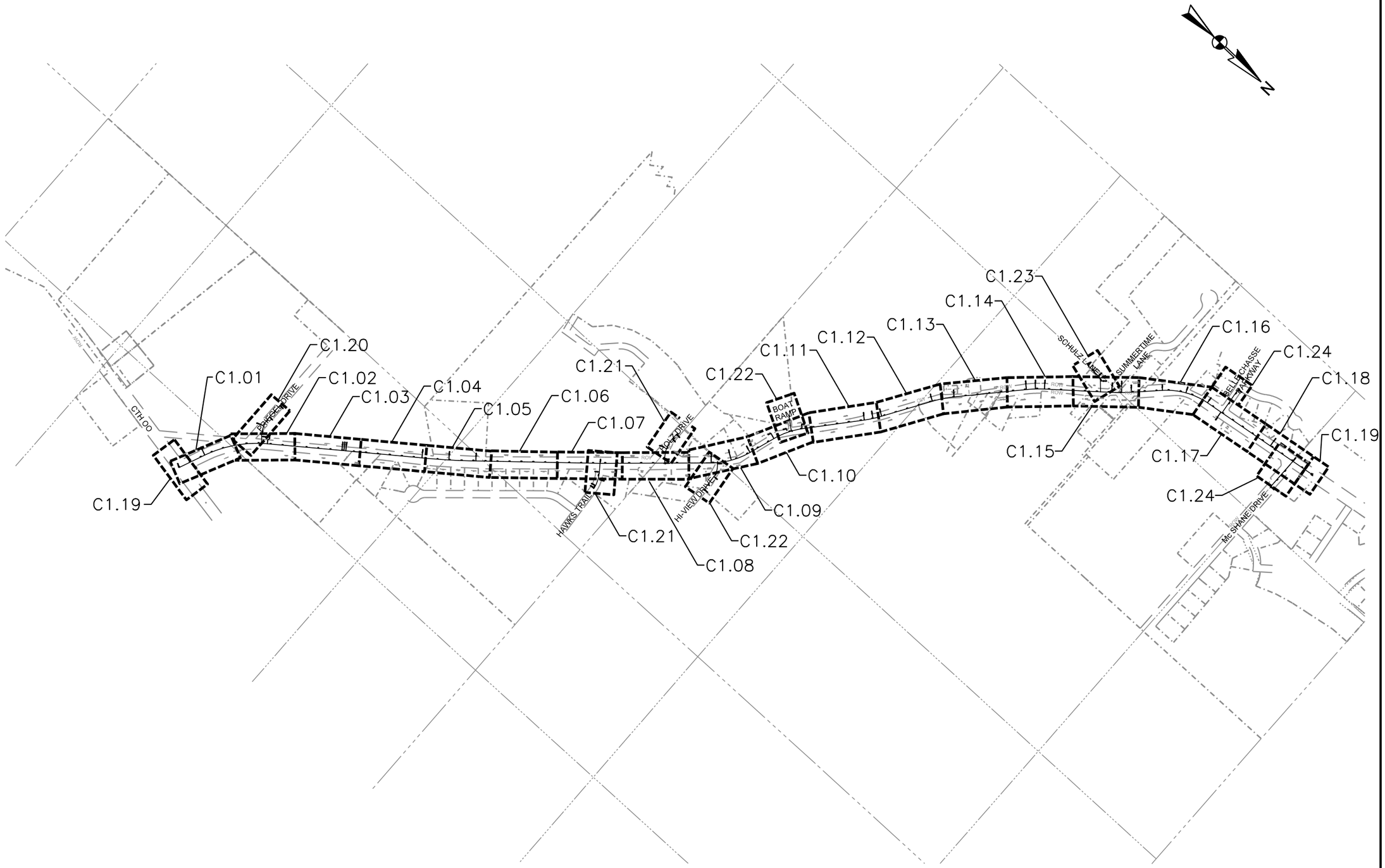

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Foth Infrastructure & Environment, LLC
Milwaukee Office
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DURHAM DRIVE RECONSTRUCTION FINAL PLANS 2/17/11

CITY OF MUSKEGO

WAUKESHA COUNTY MUSKEGO, WISCONSIN

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3			
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DURHAM DRIVE

SHEET INDEX

VERTICAL SCALE: 0 2

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

G0.03

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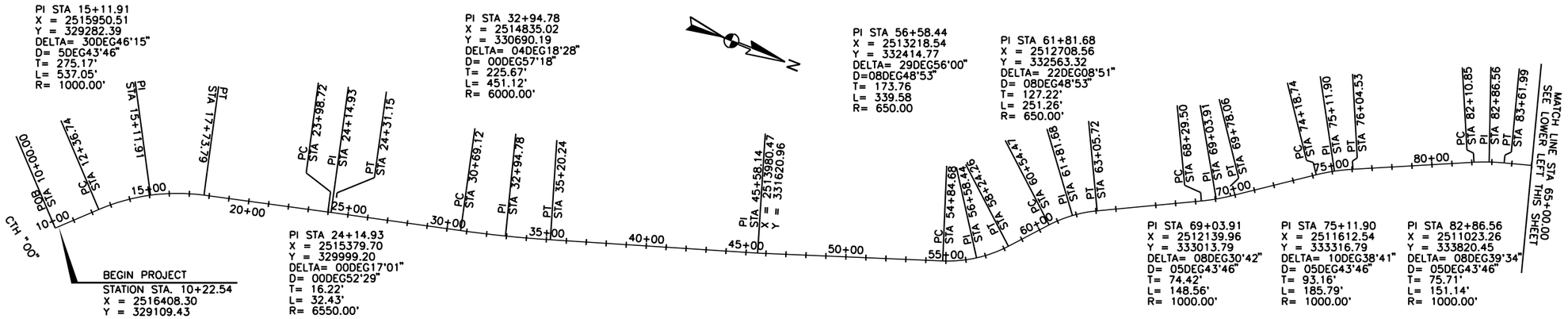
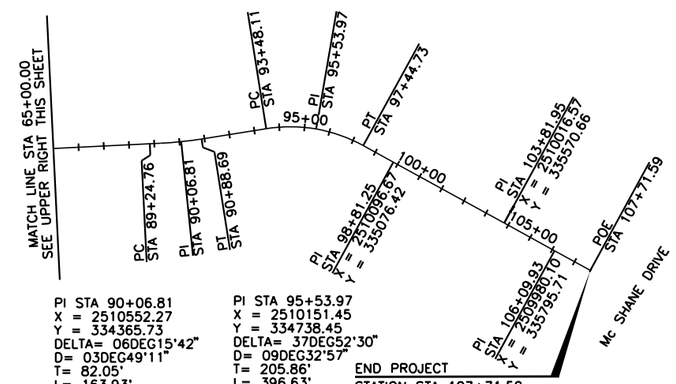


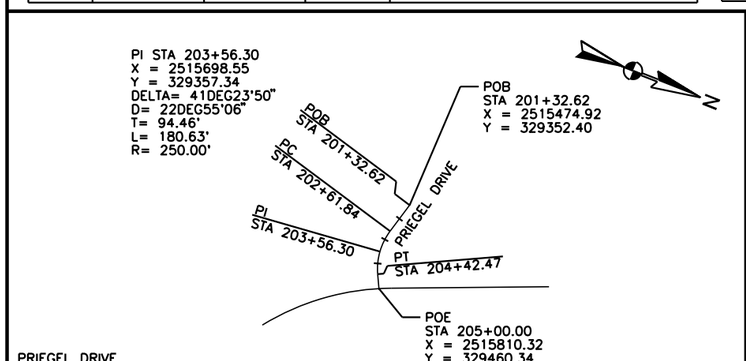


BENCHMARKS

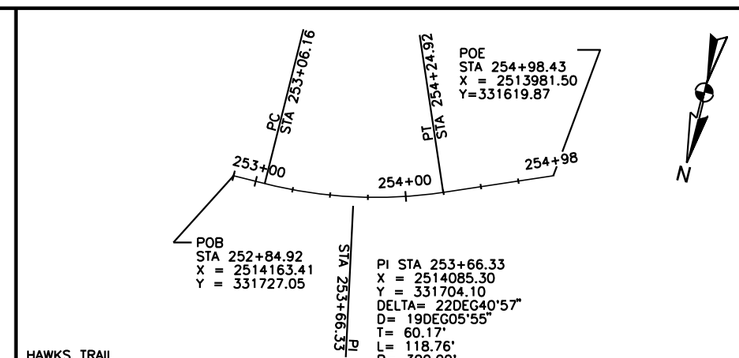
BM#	STA	OFFSET	ELEV	DESCRIPTION
TBM1	15+60	23' RT	819.68	BURY BOLT FH
TBM2	11+41	28' RT	811.91	BURY BOLT FH
TBM3	19+04	29' RT	813.47	BURY BOLT FH
TBM4	23+15	29' RT	814.26	BURY BOLT FH
TBM5	27+15	42' RT	804.54	BOLT WITH MARKER FH
TBM8	45+70	54' RT	782.91	BOLT WITH MARKER FH
TBM8A	48+88	32' RT	779.54	BURY BOLT FH
TBM9	52+89	32' LT	783.31	BURY BOLT FH
TBM10	55+08	27' RT	781.61	BURY BOLT FH
TBM16	58+82	22' RT	775.90	BURY BOLT FH
TBM17	62+85	37' RT	778.23	BURY BOLT FH
TBM19	77+37	24' RT	779.95	BURY BOLT FH
TBM21	84+04	46' LT	789.30	NE CORNER CONC RETAINING WALL
TBM23	88+81	32' LT	795.97	BURY BOLT FH
TBM28	99+12	70' LT	785.77	TOP NUT FH
TBM30	102+34	30' LT	784.43	BURY BOLT FH

CONTROL POINTS

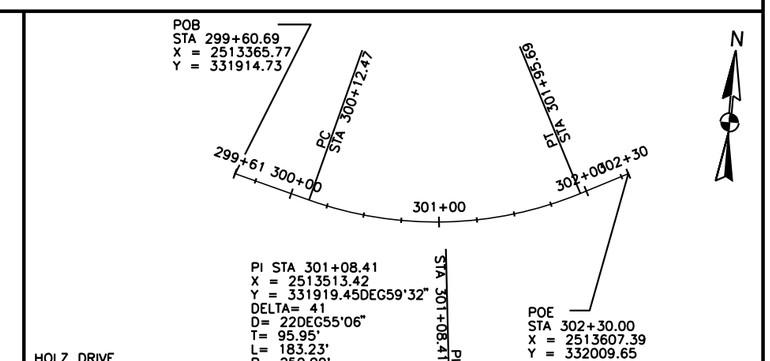
CP#	NORTHING	EASTING	ELEV	DESCRIPTION
51	329036.82	2516387.51	810.60	60DNAIL
52	329701.66	2515589.03	811.38	½" IR WITH CAP
55	330149.87	2515234.75	804.05	60DNAIL
56	330664.42	2514881.68	809.64	60DNAIL



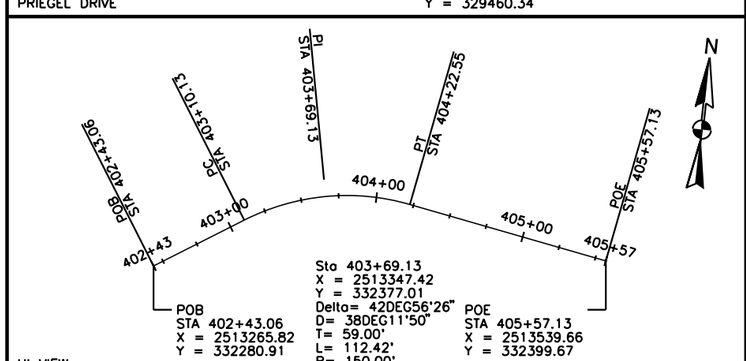
PRIEGEL DRIVE



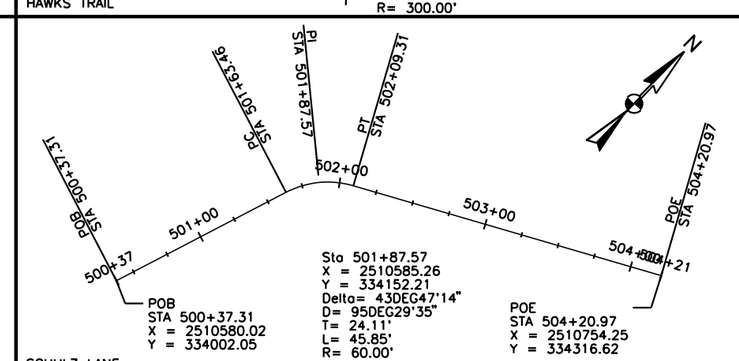
HAWKS TRAIL



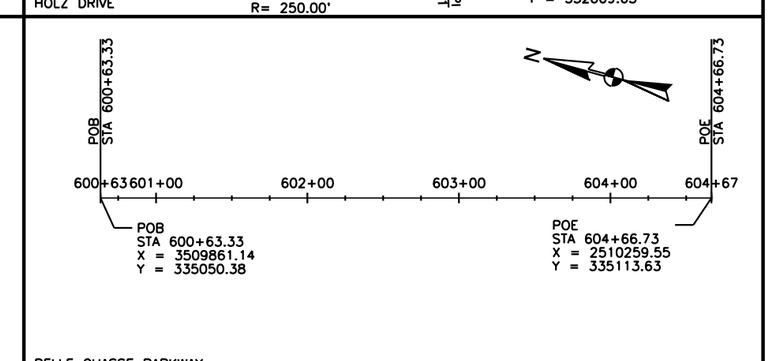
HOLZ DRIVE



HI VIEW



SCHULZ LANE



BELLE CHASSE PARKWAY

Foth
Foth Infrastructure & Environment, LLC
Milwaukee Office
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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ALIGNMENT DIAGRAM

HORIZONTAL SCALE:
0 300 600

PROJECT ID 09M032

G0.04

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CONSTRUCTION SEQUENCE:

1. A PRECONSTRUCTION MEETING MUST BE HELD BEFORE ANY CONSTRUCTION ACTIVITIES TAKE PLACE.

2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE DEPARTMENT OF ALL OFFSITE DISPOSAL LOCATIONS, INCLUDING ESTIMATED QUANTITIES, PRIOR TO EXPORTING MATERIAL FROM THE SITE.

3. IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN EARLY 2011 WITH SUBSTANTIAL COMPLETION IN LATE 2011, WITH FINAL ASPHALT LIFT AND PERMANENT VEGETATION IN 2012.

4. CONTRACTOR SHALL INSTALL SILT FENCING AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER BEFORE ANY GRADING ACTIVITIES TAKE PLACE.

5. CONTRACTOR SHALL MAINTAIN EXISTING CULVERTS AND DRAINAGE FLOW UNTIL NEW CULVERTS ARE INSTALLED AND OPERATIONAL.

6. ANY OFF-SITE FLOW THAT CAN BE BYPASSED AROUND THE CONSTRUCTION SITE SHALL BE BYPASSED.

7. CONSTRUCTION SEQNECING SHALL BE IN FOUR PHASES: UTILITY WORK, URBAN AREA WORK, RURAL WORK NORTH OF THE URBAN AREA AND RURAL WORK SOUTH OF THE URBAN AREA.

UTILITY WORK

8. DEWATERING EQUIPMENT SHALL BE IN PLACE PRIOR TO EXCAVATION FOR WORK ON SANITARY SEWER,.

9. CONTRACTOR TO INSTALL STORM SEWER.

URBAN AREA

10. ROUGH GRADING IN URBAN AREA TO BEGIN FOLLOWED WITH THE INSTALLATION OF CURB AND GUTTER.

11. FINE GRADING AND INSTALLATION OF BASE COURSE. TERRACE AREAS TO BE GRADED, MULTI-USE PATH TO BE INSTALLED.

RURAL AREA NORTH OF URBAN AREA

12. CONTRACTOR TO BEGIN WORK ON SEGMENT FROM URBAN SECTION TO MCSHANE ROAD.

13. ANY TOPSOIL SHALL BE STORED ON EDGE OF PAVEMENT AND SILT FENCE SHALL BE INSTALLED AROUND STORED TOPSOIL PILES.

14. PROPOSED DITCHES AND SIDE SLOPES WITHIN ROADWAYS SHALL BE GRADED, TOPSOILED AND STABILIZED IN ONE CONTINUOUS OPERATION.

15. ROUGH GRADING OF DITCHES AND ROADWAY, INCLUDING EXCAVATION BELOW SUBGRADE AND INSTALLATION OF CULVERTS. EXISTING CULVERTS SHALL BE MAINTAINED.

16. FINE GRADING AND INSTALLATION OF BASE COURSE MATERIAL, DITCHES SHALL BE TOPSOILED AND STABILIZED.

17. MULTI-USE PATH SHALL BE INSTALLED.

18. CHECK DAMS SHALL BE INSTALLED.

RURAL AREA SOUTH OF URBAN AREA

19. CONTRACTOR TO BEGIN WORK FROM URBAN SECTION TO CTH OO.

20. TOPSOIL TO BE STRIPPED AND STOCKPILED IN SMALL INTERMEDIATE AREAS ALONG ROADWAY. SILT FENCE SHALL BE INSTALLED AROUND STOCKPILES.

21. ROUGH GRADING OF DITCHES AND ROADWAY, INCLUDING EXCAVATION BELOW SUBGRADE AND INSTALLATION OF CULVERTS. EXISTING CULVERTS SHALL BE MAINTAINED. THIS WORK SHALL BE DONE IN SECTIONS TO MINIMIZE DISTURBED AREAS.

22. FINE GRADING AND INSTALLATION OF BASE COURSE MATERIAL; DITCHES SHALL BE TOPSOILED AND STABILIZED.

23. MULTI-USE PATH SHALL BE INSTALLED.

24. CHECK DAMS SHALL BE INSTALLED.

25. AFTER FINISH GRADING IS COMPLETE, PLACE TOPSOIL ON ALL REMAINING DISTURBED AREAS. STABILIZATION SHALL BE COMPLETE WITHIN 7 DAYS.

26. ASPHALT PAVEMENT SHALL BE INSTALLED. ALL LANDSCAPING AND RESTORATION SHALL BE COMPLETE. RESTORATION SHALL FOLLOW THE REQUIREMENTS OF THE EROSION CONTROL NOTES.

27. ALL EQUIPMENT SHALL BE MOBILIZED OFF THE SITE.

GENERAL NOTES:

1. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THESE PLANS AND SPECIAL PROVISIONS.

2. NORMAL OFFSET FOR SIGNS ALONG UNCURBED ROADWAYS IS FIFTEEN FEET FROM TRAVEL LANE EDGE LINE TO THE SIGN POST. A 3 FOOT MINIMUM LATERAL CLEARANCE SHALL BE PROVIDED BETWEEN THE EDGE OF THE SIGN AND THE EDGE OF THE MULTI-USE TRAIL. THE NORMAL OFFSET TO THE SIGN EDGE IS ONE FOOT BEHIND THE CURB FOR SIGNS LOCATED ALONG CURBED ROADWAY. THE EXACT LOCATION OF ALL STOP SIGNS WILL BE DETERMINED IN THE FIELD.

3. SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE ENGINEER.

4. UNLESS OTHERWISE NOTED, RADIUS ON THE MULTI-USE TRAIL ARE TO BE 100'.

5. CATCH BASIN ELEVATIONS ARE PROVIDED TO THE FLANGE OF THE E.O.P. AT THE CENTER OF THE CATCH BASIN.

6. CONTRACTOR TO CONSIDER TURNING OFF THE WATER MAIN DURING EXCAVATION BELOW SUBGRADE WHEN IT IS CLOSE TO THE WATER MAIN.

7. UTILITY LOCATIONS SHOWN ON PLANS WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE TO THE DEPARTMENT, UTILITY LOCATIONS ARE NOT INTENDED TO BE EXACT OR COMPLETE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATIONS.

8. CONTRACTOR SHALL ADJUST ALL VALVE BOXES, STORM DRAIN MANHOLES, SEWER MANHOLES AND CLEANOUTS TO FINISH GRADE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE OTHER ITEMS OF WORK, EXCEPT WHEN THE BIDDING SCHEDULE CONTAINS SPECIFIC ITEMS ON A UNIT BASIS.

9. SOILS INFORMATION WILL BE MADE AVAILABLE TO PROSPECTIVE BIDDERS IN THE PROJECT SPECIAL PROVISIONS. SOILS INFORMATION SO PROVIDED SHALL BE FOR INFORMATION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS. THIS INFORMATION WAS DEVELOPED AS ACCURATELY AS POSSIBLE BY THE METHODS UTILIZED. CITY OF MUSKEGO ACCEPTS NO RESPONSIBILITY FOR ANY CONDITIONS ENCOUNTERED WHICH VARY FROM INFORMATION PROVIDED.

10. GUTTER PANS ARE TO BE REVERSED IN SUPER ELEVATED SECTIONS OF THE ROADWAY.

11. STRUCTURAL SECTIONS FOR DRIVEWAYS AS CALLED OUT PER THE PLANS

3" ASPHALTIC CONCRETE ON 8" - 3/4" CRUSHED AGGREGATE BASE COURSE (GRADATION 3) OR
6" CONCRETE ON 6"- 3/4" CRUSHED AGGREGATE BASE COURSE (GRADATION 3) OR 8"- 3/4" CRUSHED AGGREGATE BASE COURSE (GRADATION 3) FOR GRAVEL DRIVEWAYS

EROSION CONTROL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THE DRAWINGS SHALL CONFORM TO THE FOLLOWING WDNR TECHNICAL STANDARDS:
1051 • SEDIMENT CONTROL WATER APPLICATION OF POLYMERS
1053 • EROSION MATTING
1056 • SILT FENCE
1057 • STONE TRACKING PAD AND TIRE WASHING
1058 • MULCHING FOR CONSTRUCTION SITES
1059 • SEEDING FOR CONSTRUCTION SITE EROSION CONTROL

2. WHEN POSSIBLE THE SILT FENCE SHALL BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE WITH ENDS POINTING UPSLOPE TO MAXIMIZE STRENGTH AND EFFECTIVENESS.

3. CONTRACTOR SHALL CHECK ALL EROSION CONTROL MEASURES EVERY SEVEN DAYS OR AFTER EACH 0.5 INCH RAINFALL EVENT WHICHEVER IS SOONER AND PROVIDE ANY MAINTENANCE REQUIRED FOR CONFORMANCE WITH THIS PLAN. INSPECTIONS SHOULD BE COMPLETED WITHIN 24 HOURS OF THE RAIN EVENT.

4. SEEDING SHALL BEGIN WITHIN 7 DAYS AFTER FINAL GRADING IS COMPLETE.

5. SEEDING SHALL CONFORM TO REQUIREMENTS OF SECTION 630 OF WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. A NO. 10 MIXTURE SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1000 SF.

6. PLACE MULCH, WHERE MATTING IS NOT SPECIFIED, ON ALL SEEDED AREAS IN ACCORDANCE WITH SECTION 627, METHOD A, OF WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. APPLY FERTILIZER IN ACCORDANCE WITH SECTION 629 OF THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL MULCHED AREAS MUST BE ANCHORED WITH A TACKIFER.

7. DISTURBED AREAS LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH. ALL MULCHED AREAS MUST BE ANCHORED WITH A TACKIFER.

8. TEMPORARY SEEDING: ANNUAL RYEGRASS • 25 POUNDS/ACRE; LATE SEASON SEEDING (SEPTEMBER 15 • OCTOBER 31) WINTER WHEAT • 2 BUSHELS/ACRE; WINTER SEEDING (AFTER NOVEMBER 1) NO. 10 MIXTURE AT 4 POUNDS/ACRE.

9. AN EROSION CONTROL INSPECTION LOG MUST BE KEPT ON SITE AND MAINTAINED.

DEWATERING PLAN:

1. THE CONTRACTOR SHALL FOLLOW THIS DEWATERING PLAN, OR IF SITE CONDITIONS CHANGE, SHALL SUBMIT A DEWATERING PLAN TO THE WDNR PRIOR TO ANY DEWATERING ON SITE.

2. THE SOILS IN THE DEWATERING AREA ARE SANDY AND SANDY SILT MATERIALS.

3. A POLYMER TYPE 2 FILTER BAG SHALL BE USED FOR THE DEWATERING. THE POLYMER SHALL MEET WDNR TECHNICAL STANDARD 1051, FILTER BAG SHALL MEET STANDARD 1061.

4. THE DEWATERING BAGS MUST BE PLACED ON A WELL VEGETATED AREA AND THE PUMPED DISCHARGE MUST BE DIRECTED AWAY FROM DISTURBED AREAS ON THE PROJECT AT ALL TIMES.

5. THE CONTRACTOR SHALL USE DEWATERING FOR UTILITY CONSTRUCTION BETWEEN STA. 74+00 AND 84+00, AND STA. 94+00 AND 98+95.

6. FLOW FOR DEWATERING WAS BASED ON THE 2 YEAR 24 HOUR STORM FOR THE DRAINAGE AREA BEING DEWATERED. A 50% REDUCTION FACTOR OF SAFETY WAS APPLIED TO THE FLOW. THE SIZE OF THE DEWATERING BAG WAS BASED ON THIS FLOW RATE. SEE EROSION CONTROL PLANS FOR MAXIMUM PUMPING RATES.

7. THE CONTRACTOR SHALL KEEP A LOG WITH PUMP RATES AND DURATION, OBSERVED WATER TABLE, AND MAINTENANCE ACTIVITIES.

8. THE CONTRACTOR SHALL INSTALL EROSION MAT, IF DIRECTED BY THE ENGINEER, DOWNSTREAM OF THE FILTER BAG IF EROSION OCCURS.

CONTACTS

CITY OF MUSKEGO ENGINEER
DAVE SIMPSON
W182 S8200 RACINE AVE.
MUSKEGO, WI 53150
(262) 679-5686
DSIMPSON@CI.MUSKEGO.WI.US

FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
MICHELE KLAPPA-SULLIVAN
LINCOLN CENTER II
2514 SOUTH 102ND ST. SUITE 278
WEST ALLIS, WI 53227
(414) 336-7911
MICHELE.KLAPPASULLIVAN@FOTH.COM

CITY OF MUSKEGO
JEFF MUENKEL
W182 S8200 RACINE AVE.
MUSKEGO, WI 53150
(262) 679-4136
JMUENKEL@CI.MUSKEGO.WI.US

SOUTHEASTERN REGION WISCONSIN
DEPARTMENT OF NAURAL RESOURCES
BRYAN HARTSOOK
141 NW BARSTOW ST. ROOM 180
WAUKESHA, WI 53188
(262) 574-2129
BRYAN.HARTSOOK@WISCONSIN.GOV

UTILITY CONTACTS

WE ENERGIES - ELECTRIC
MIKE BRUENING
500 S. 116TH STREET
WEST ALLIS, WI 53214
(262) 763-1083
MICHAEL.BRUENING@WE-ENERGIES.COM

TIME WARNER CABLE
STEVE CRAMER
1320 NORTH MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
(414) 277-4045
STEVE.CRAMER@TWCABLE.COM

AT&T WISCONSIN
MARK EDER
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
(262) 896-7434
ME1754@ATT.COM

WE ENERGIES - GAS
JOE DABLE
1830 S. WEST AVE
WAUKESHA, WI 53189
(414) 944-5543
JOE.DABLE@WE-ENERGIES.COM

AMERICAN TRANSMISSION CORP.
KIM STRATTON
PO BOX 47
WAUKESHA, WI 53187

MILWAUKEE METROPOLITAN
SEWERAGE DISTRICT
DEBRA JENSEN
260 W. SEEBOTH STREET
MILWAUKEE, WI 53204
(414) 225-2143
DJENSEN@MMSD.COM

Foth
Foth Infrastructure & Environment, LLC
Lincoln Center II
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE
RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO
MUSKEGO, WISCONSIN
WAUKESHA COUNTY

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DATE OF PREPARATION

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GENERAL NOTES

SCALE: NONE

PROJECT ID 09M032

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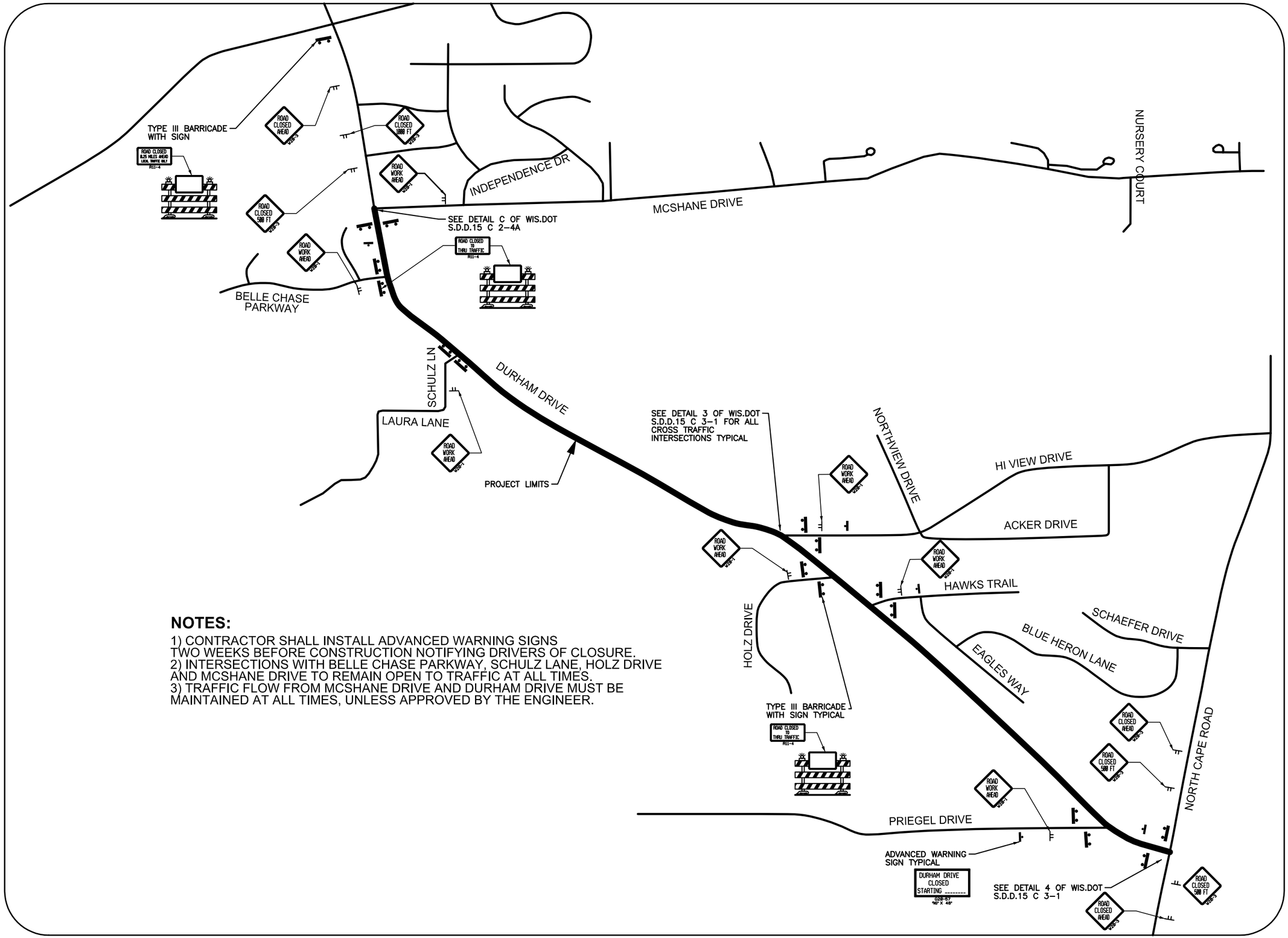

NOTES:

1) CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS TWO WEEKS BEFORE CONSTRUCTION NOTIFYING DRIVERS OF CLOSURE.
2) INTERSECTIONS WITH BELLE CHASE PARKWAY, SCHULZ LANE, HOLZ DRIVE AND MCSHANE DRIVE TO REMAIN OPEN TO TRAFFIC AT ALL TIMES.
3) TRAFFIC FLOW FROM MCSHANE DRIVE AND DURHAM DRIVE MUST BE MAINTAINED AT ALL TIMES, UNLESS APPROVED BY THE ENGINEER.

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Foth Infrastructure & Environment, LLC
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE
RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO

WAUKESHA COUNTY MUSKEGO, WISCONSIN

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DURHAM DRIVE

ROAD CLOSURE SHEET

SCALE: NONE

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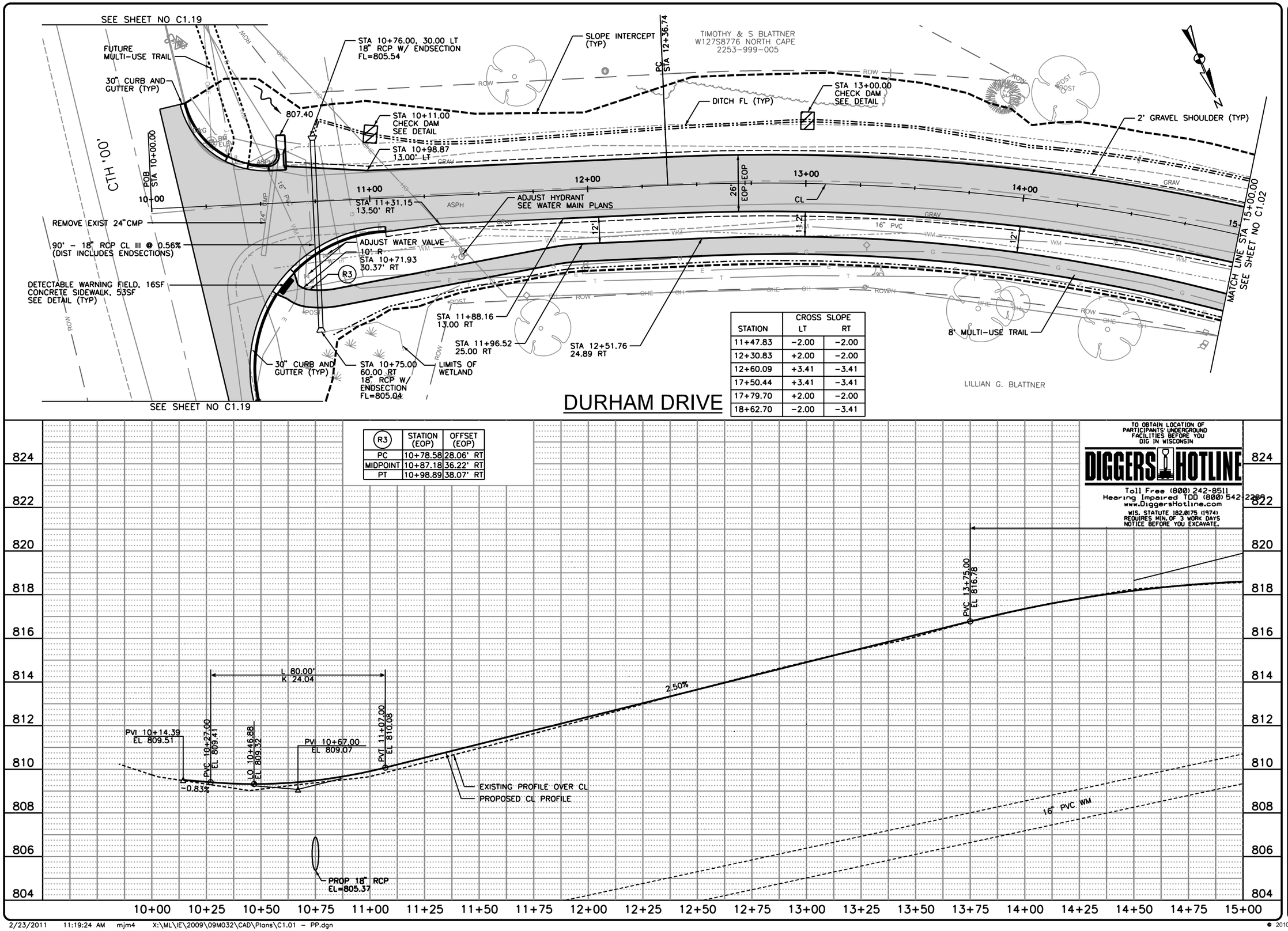

STATION	CROSS SLOPE LT	CROSS SLOPE RT
11+47.83	-2.00	-2.00
12+30.83	+2.00	-2.00
12+60.09	+3.41	-3.41
17+50.44	+3.41	-3.41
17+79.70	+2.00	-2.00
18+62.70	-2.00	-3.41

R3	STATION (EOP)	OFFSET (EOP)
PC	10+78.58	28.06' RT
MIDPOINT	10+87.18	36.22' RT
PT	10+98.89	38.07' RT

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Lead Office: 1700 Lincoln Street
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
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DURHAM DRIVE
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2/17/11

CITY OF MUSKEGO

MUSKEGO, WISCONSIN

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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

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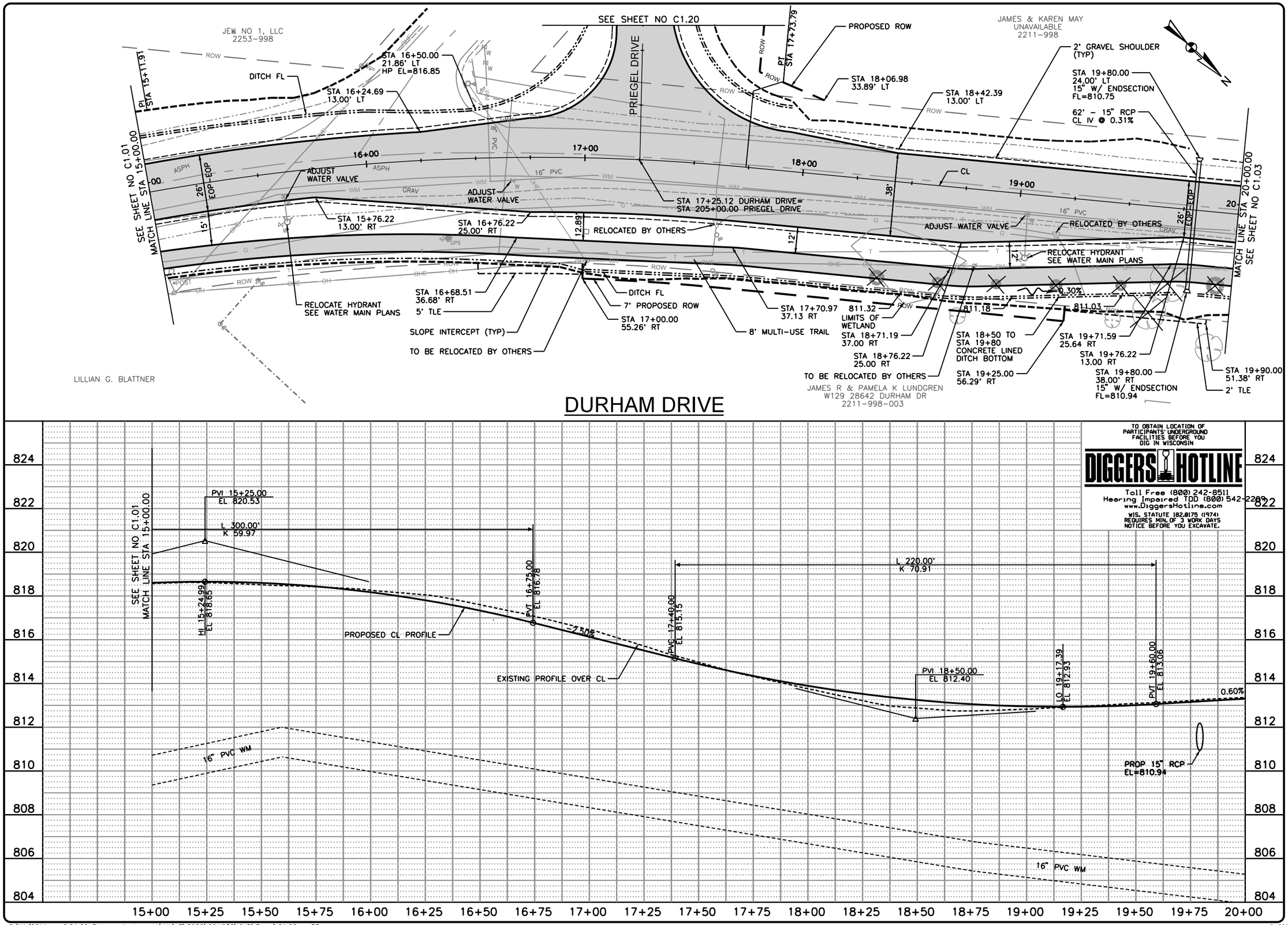

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Foth Infrastructure & Environment, LLC
Foth Water Resources, LLC
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Suite 278, Lincoln Center II
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MUSKEGO, WISCONSIN

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DURHAM DRIVE

STORM SEWER
AND
ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

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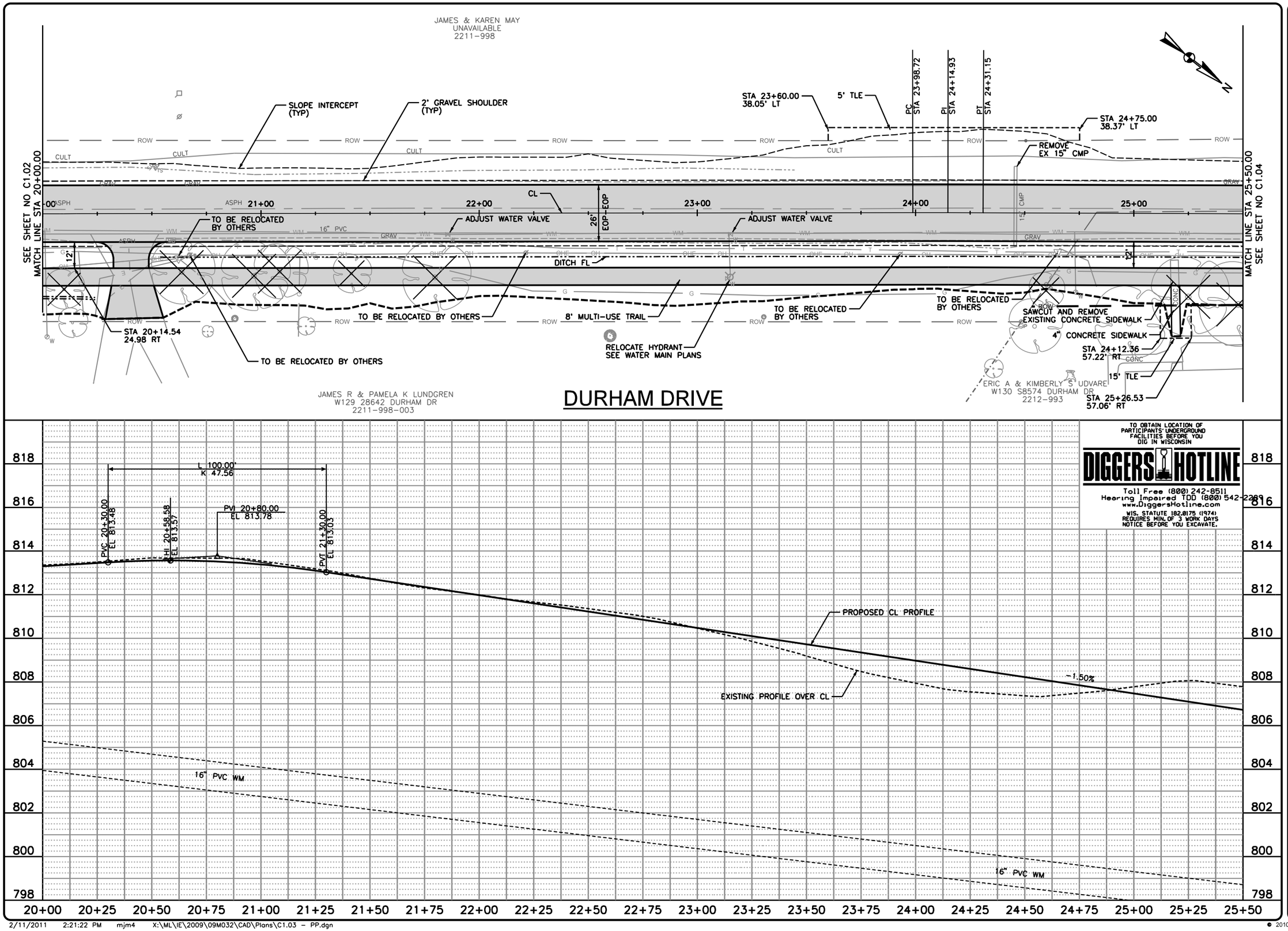

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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

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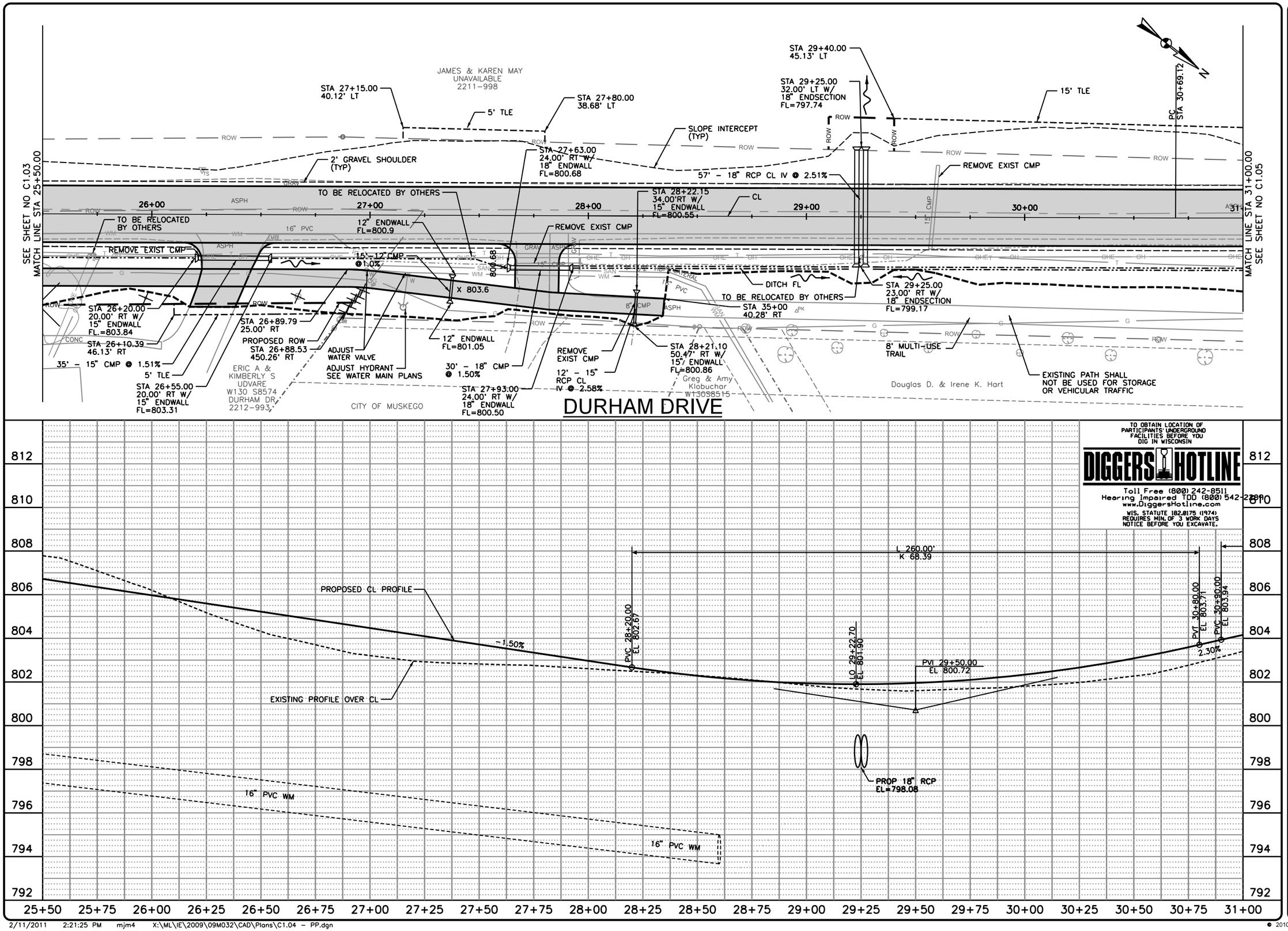

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10405 Corporate Drive
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Suite 278, Lincoln Center II
West Allis, WI 53227
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DURHAM DRIVE

STORM SEWER
AND
ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

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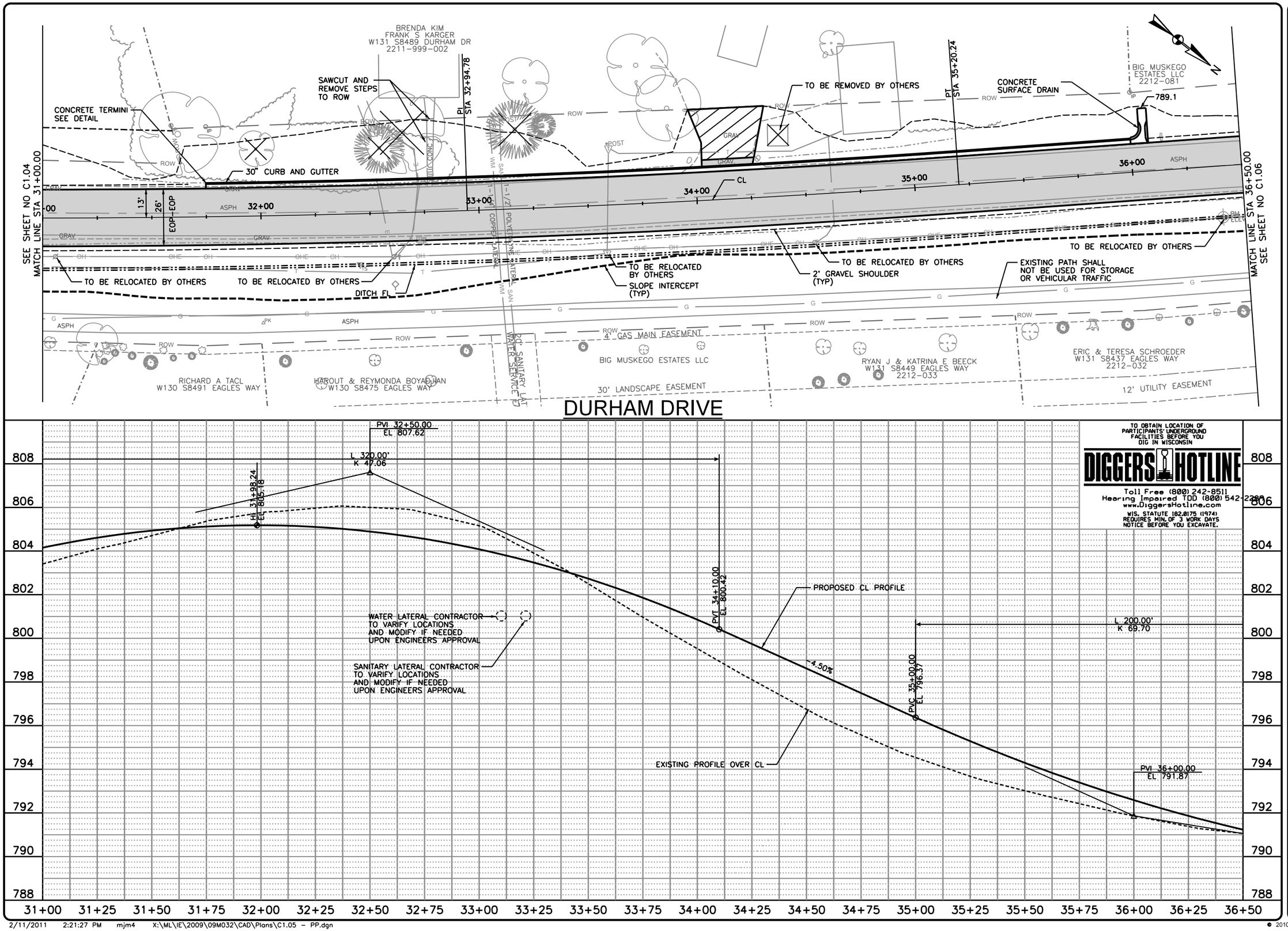

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Foth Infrastructure & Environment, LLC
Milwaukee Office
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

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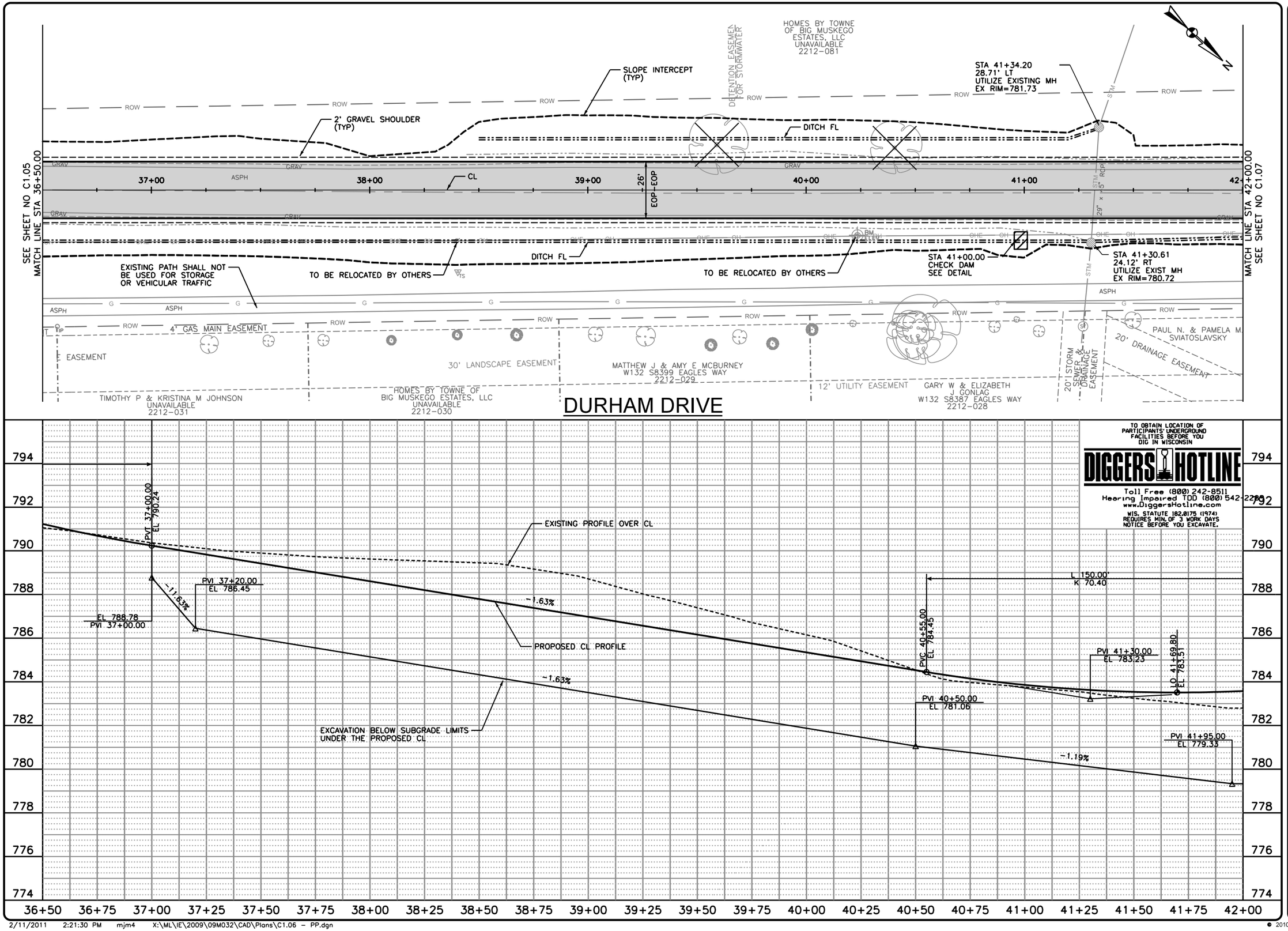

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Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2

HORIZONTAL SCALE: 0 20 40

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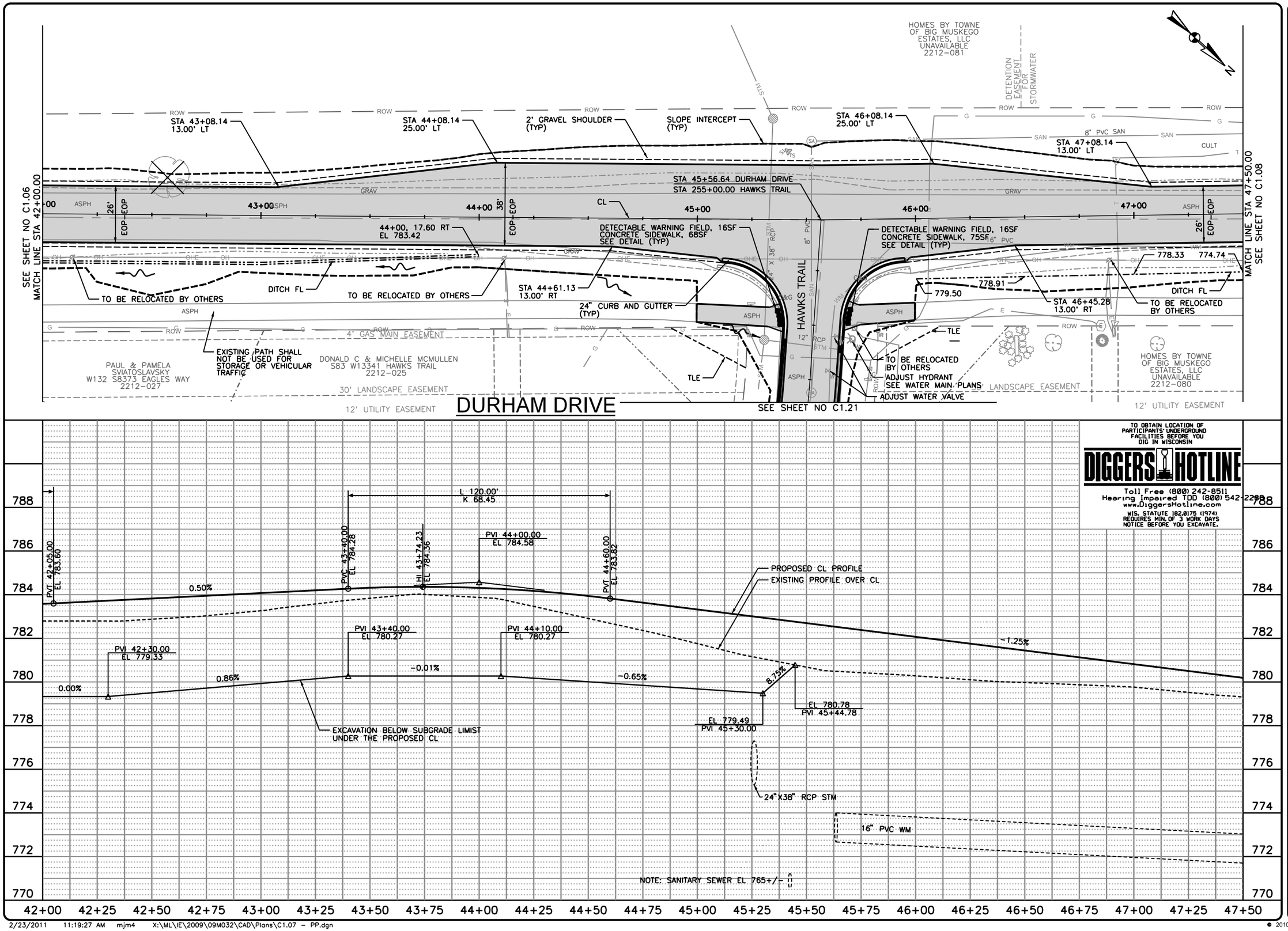

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Foth Infrastructure & Environment, LLC
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RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

DATE OF PREPARATION

	BY	DATE
SURVEYED	TAA	
DRAWN	GTW	02/23/10
DESIGNED	CLM1	02/23/10
CHECKED	PAV	05/14/10

DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

C1.07

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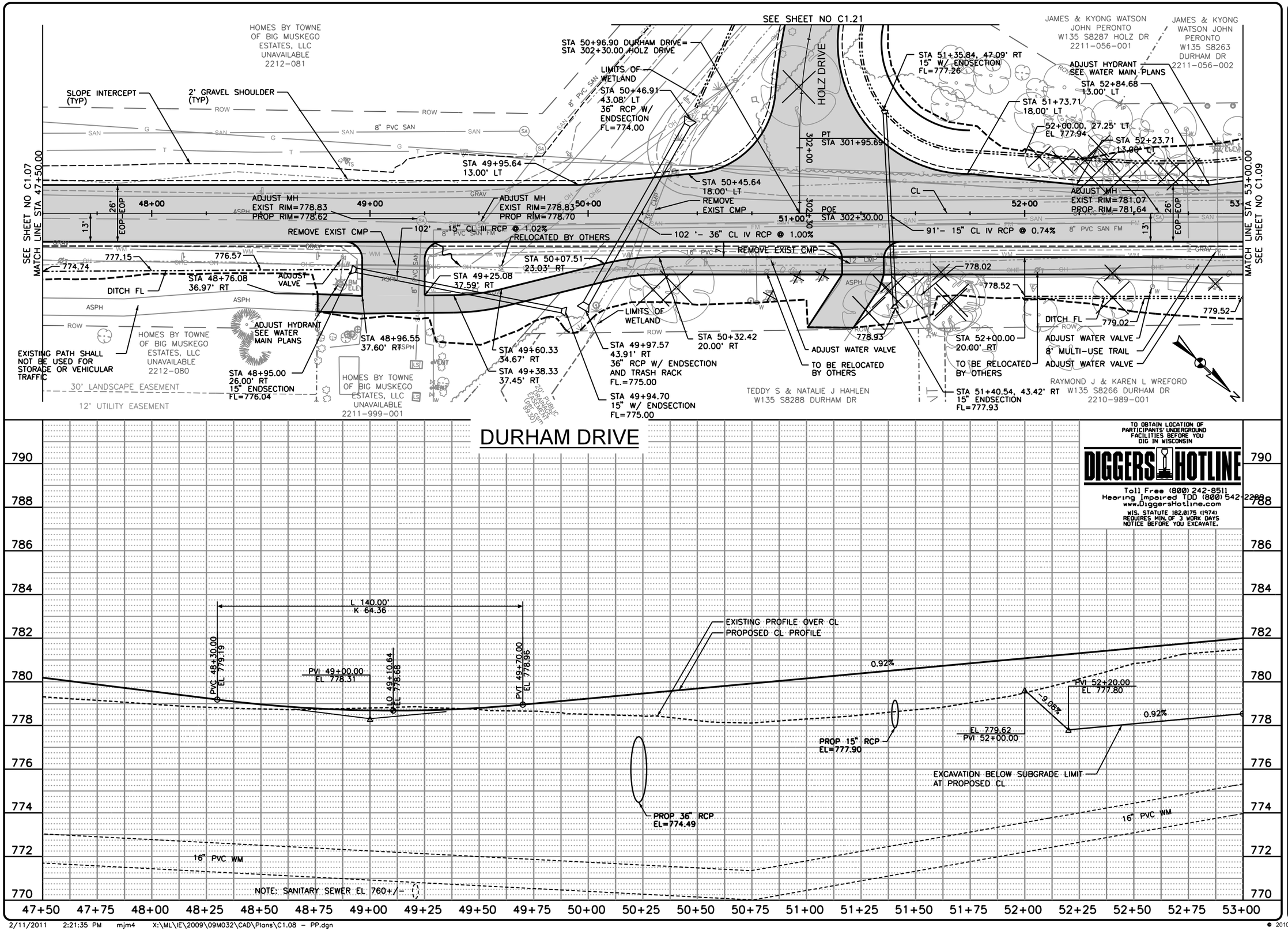

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DURHAM DRIVE RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO
MUSKEGO, WISCONSIN
WAUKESHA COUNTY

NO.	BY	DATE	DESCRIPTION
1			
2			
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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

C1.08

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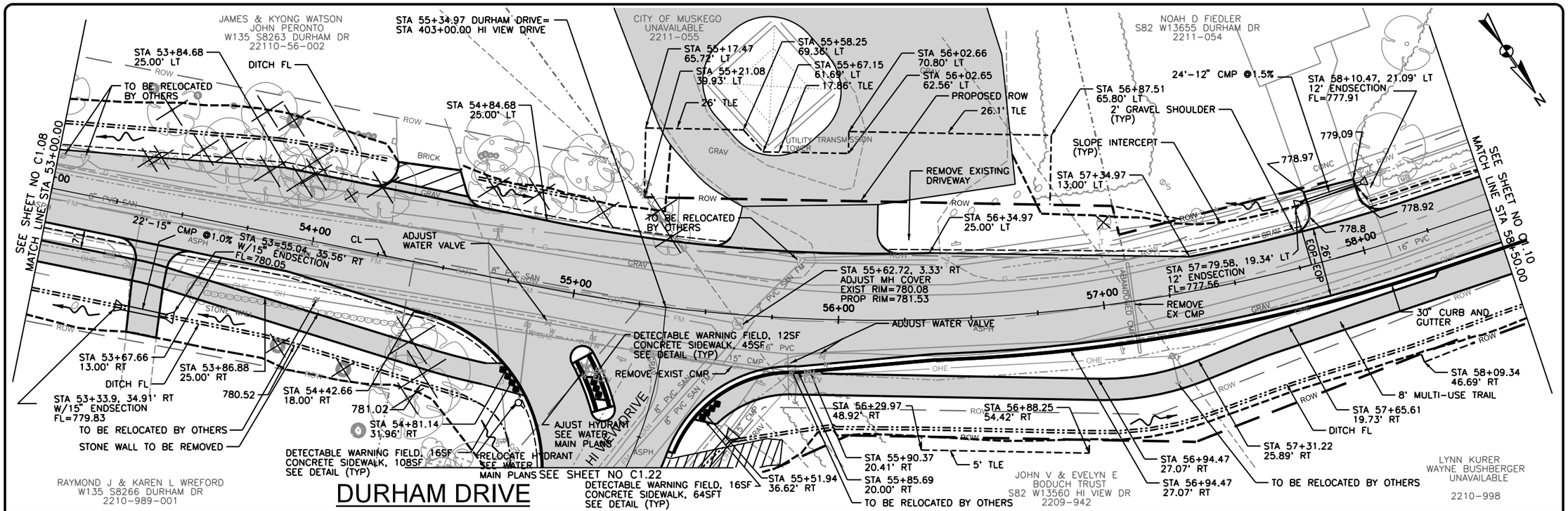
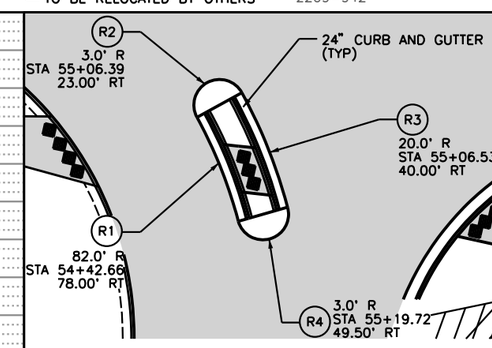


STATION	CROSS SLOPE LT	CROSS SLOPE RT
53+89.24	−2.00	−2.00
54+72.24	−2.00	+2.00
55+11.25	−3.88	+3.88
57+97.69	−3.88	+3.88
58+36.70	−2.00	+2.00
59+19.70	−2.00	−2.00



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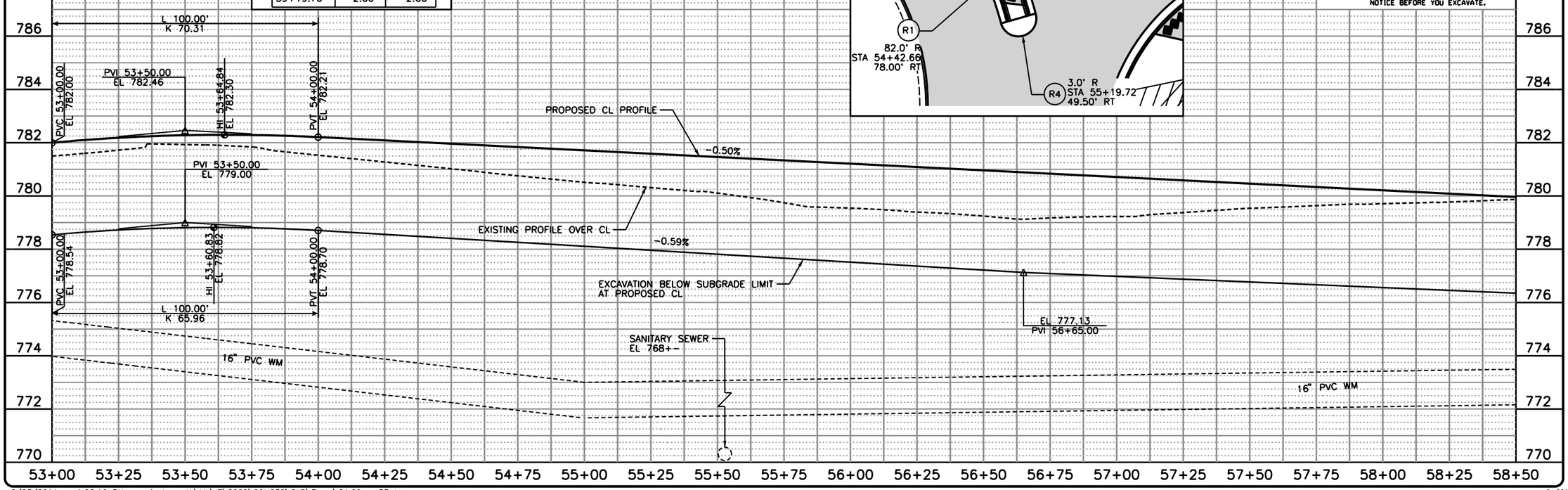

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DURHAM DRIVE
RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO
MUSKEGO, WISCONSIN
WAUKESHA COUNTY

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DURHAM DRIVE

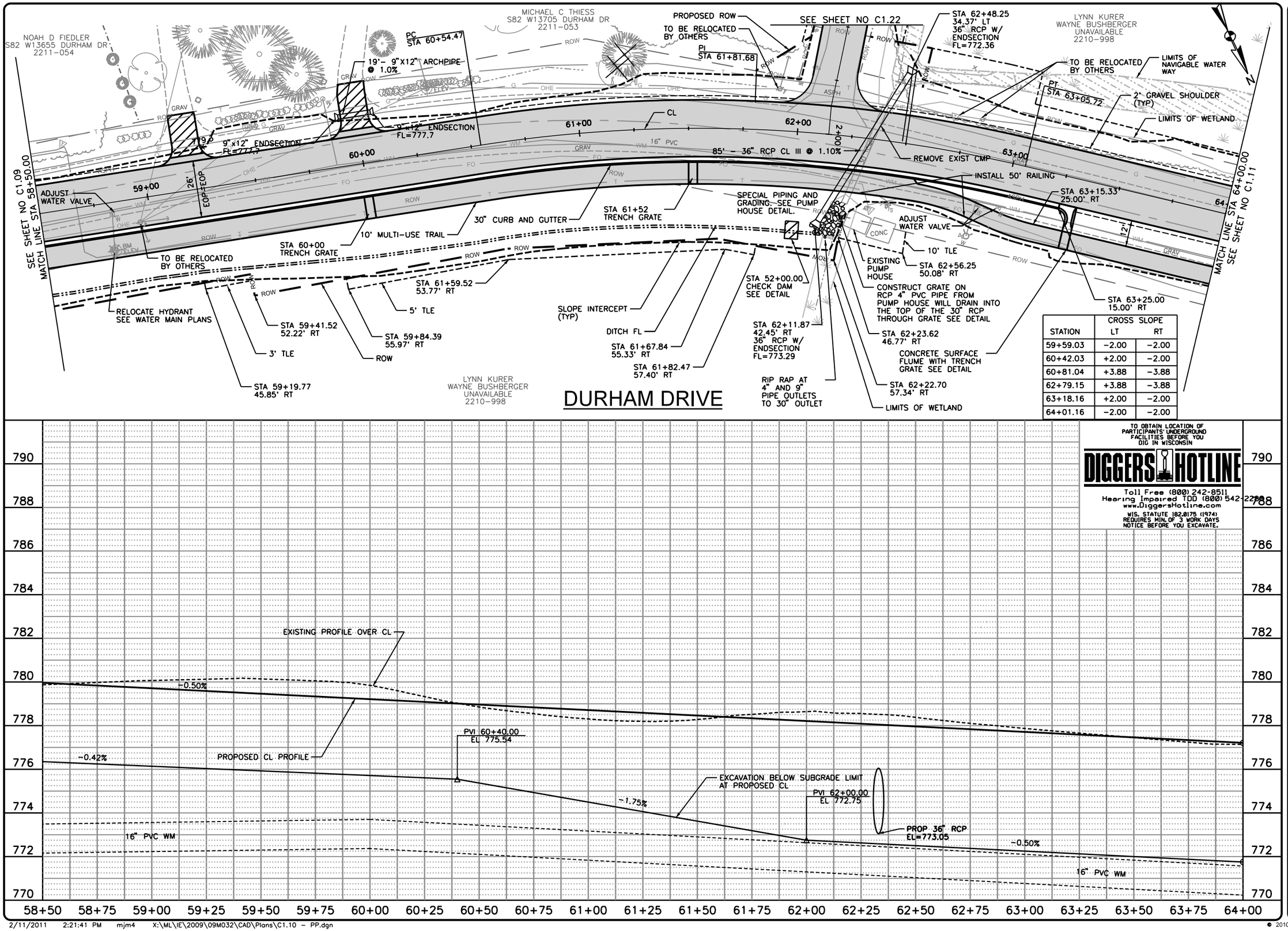
STORM SEWER
AND
ROADWAY

VERTICAL SCALE: 2

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

C1.09



STATION	CROSS SLOPE LT	CROSS SLOPE RT
59+59.03	-2.00	-2.00
60+42.03	+2.00	-2.00
60+81.04	+3.88	-3.88
62+79.15	+3.88	-3.88
63+18.16	+2.00	-2.00
64+01.16	-2.00	-2.00

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STORM SEWER AND ROADWAY

VERTICAL SCALE: 2
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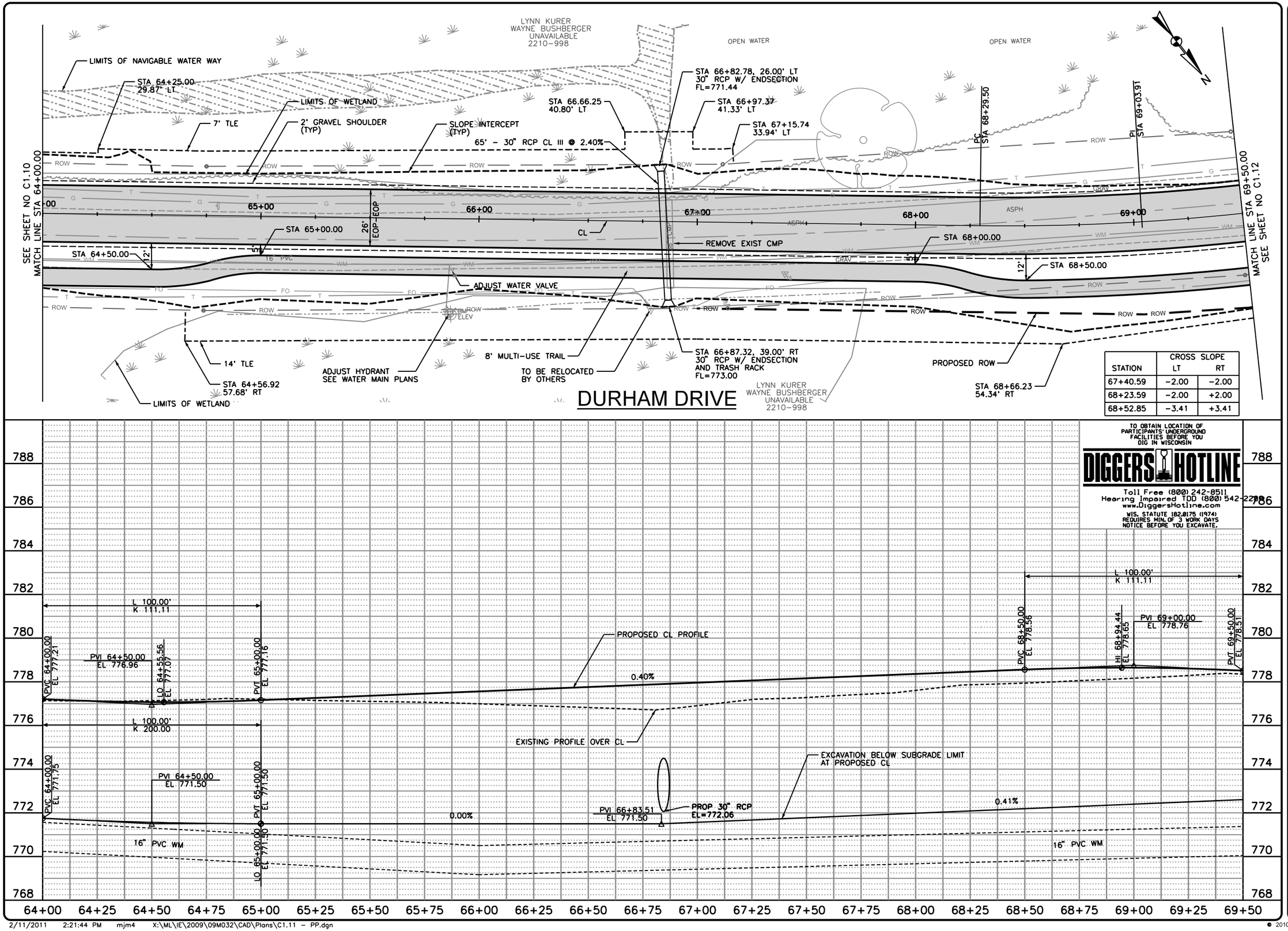

STATION	CROSS SLOPE LT	CROSS SLOPE RT
67+40.59	-2.00	-2.00
68+23.59	-2.00	+2.00
68+52.85	-3.41	+3.41

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DURHAM DRIVE
RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO

MUSKEGO, WISCONSIN

WAUKESHA COUNTY

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STORM SEWER
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ROADWAY

VERTICAL SCALE: 2 0

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PROJECT ID 09M032

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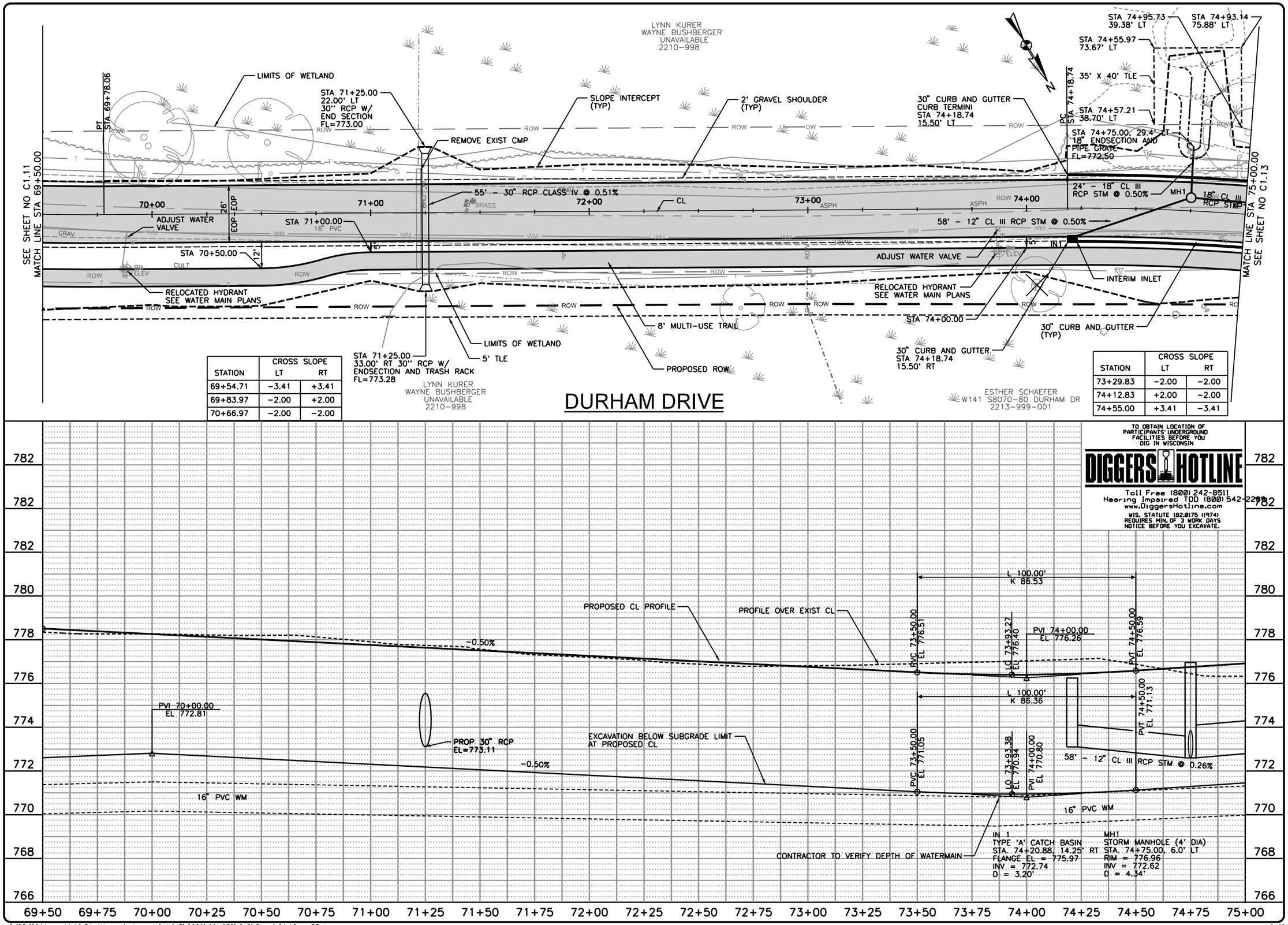

STATION	CROSS SLOPE LT	CROSS SLOPE RT
69+54.71	-3.41	+3.41
69+83.97	-2.00	+2.00
70+66.97	-2.00	-2.00

STATION	CROSS SLOPE LT	CROSS SLOPE RT
73+29.83	-2.00	-2.00
74+12.83	+2.00	-2.00
74+55.00	+3.41	-3.41

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DURHAM DRIVE

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AND
ROADWAY

VERTICAL SCALE: 2

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

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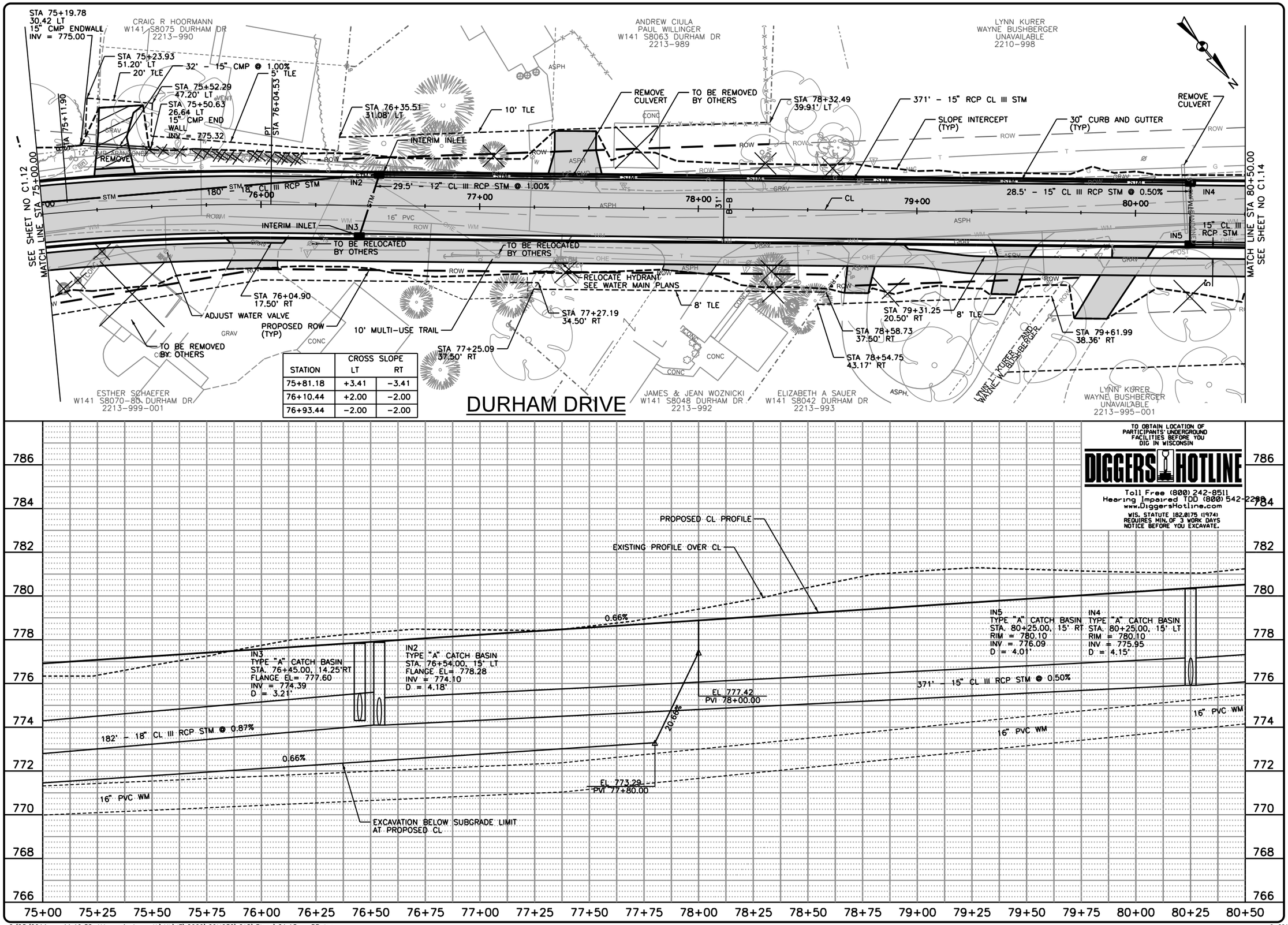

STATION	CROSS SLOPE LT	CROSS SLOPE RT
75+81.18	+3.41	-3.41
76+10.44	+2.00	-2.00
76+93.44	-2.00	-2.00

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CITY OF MUSKEGO
MUSKEGO, WISCONSIN
WAUKESHA COUNTY

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DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

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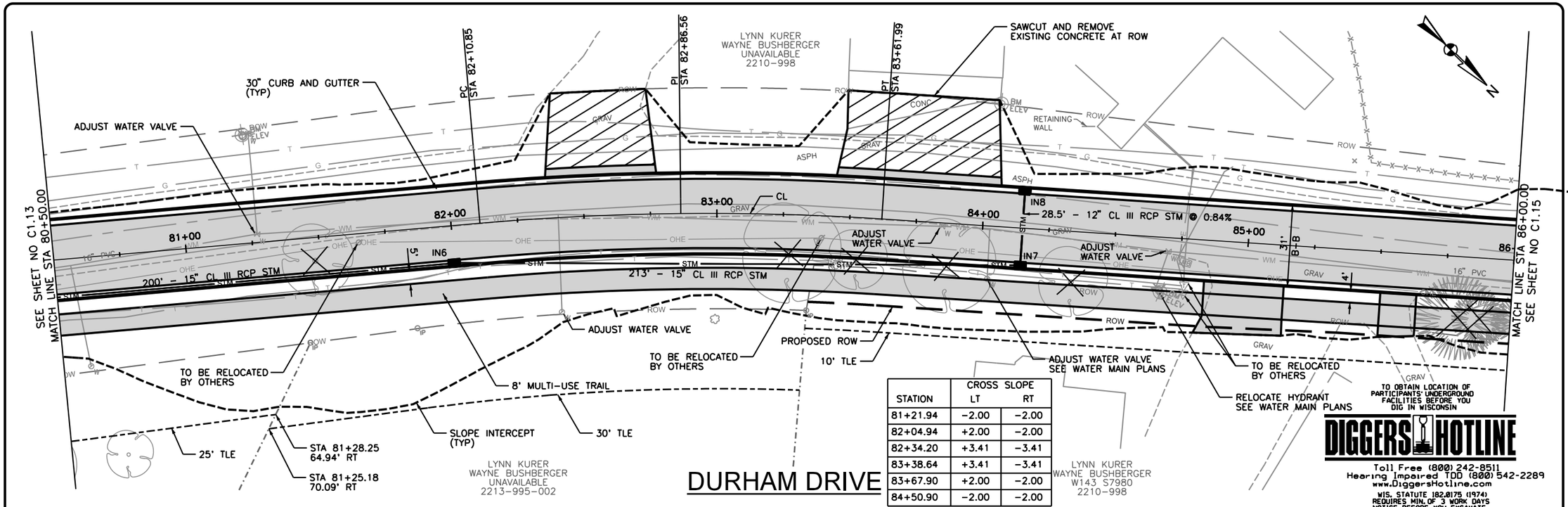
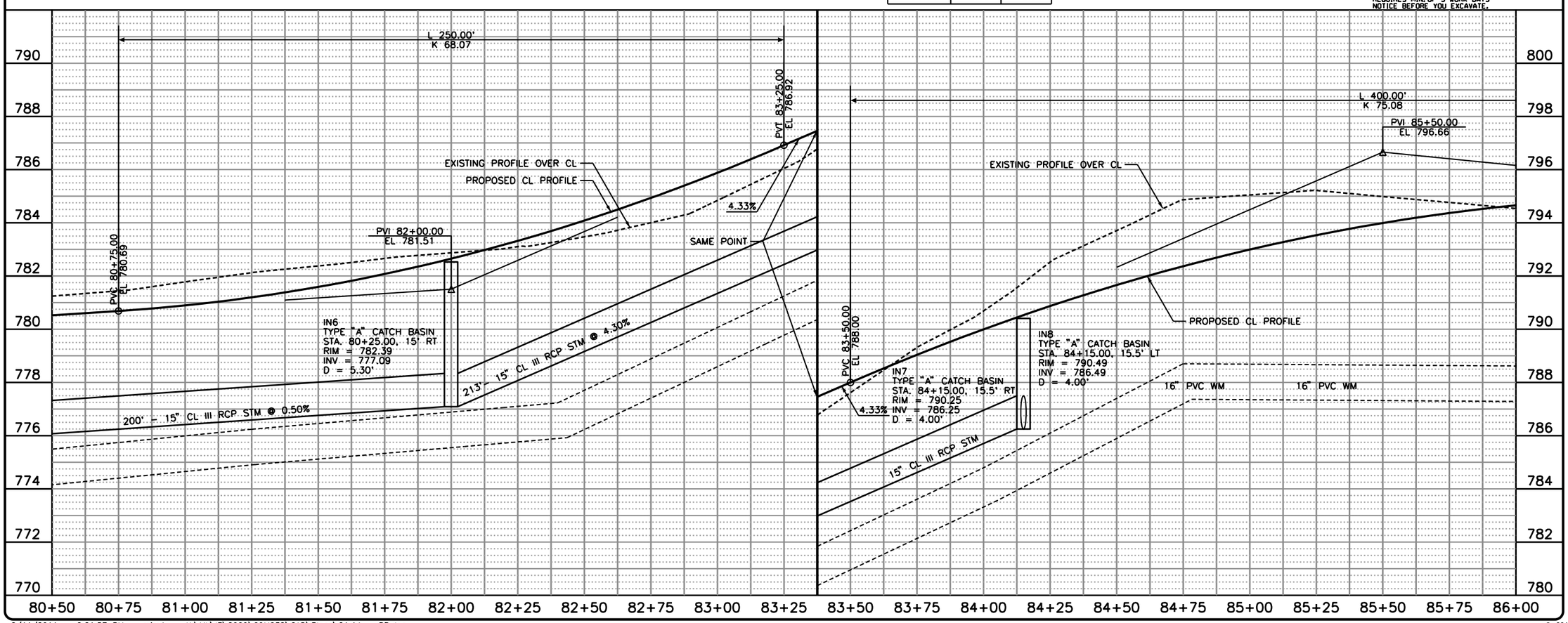


STATION	CROSS SLOPE LT	CROSS SLOPE RT
81+21.94	-2.00	-2.00
82+04.94	+2.00	-2.00
82+34.20	+3.41	-3.41
83+38.64	+3.41	-3.41
83+67.90	+2.00	-2.00
84+50.90	-2.00	-2.00



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VERTICAL SCALE: 2 0

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PROJECT ID 09M032

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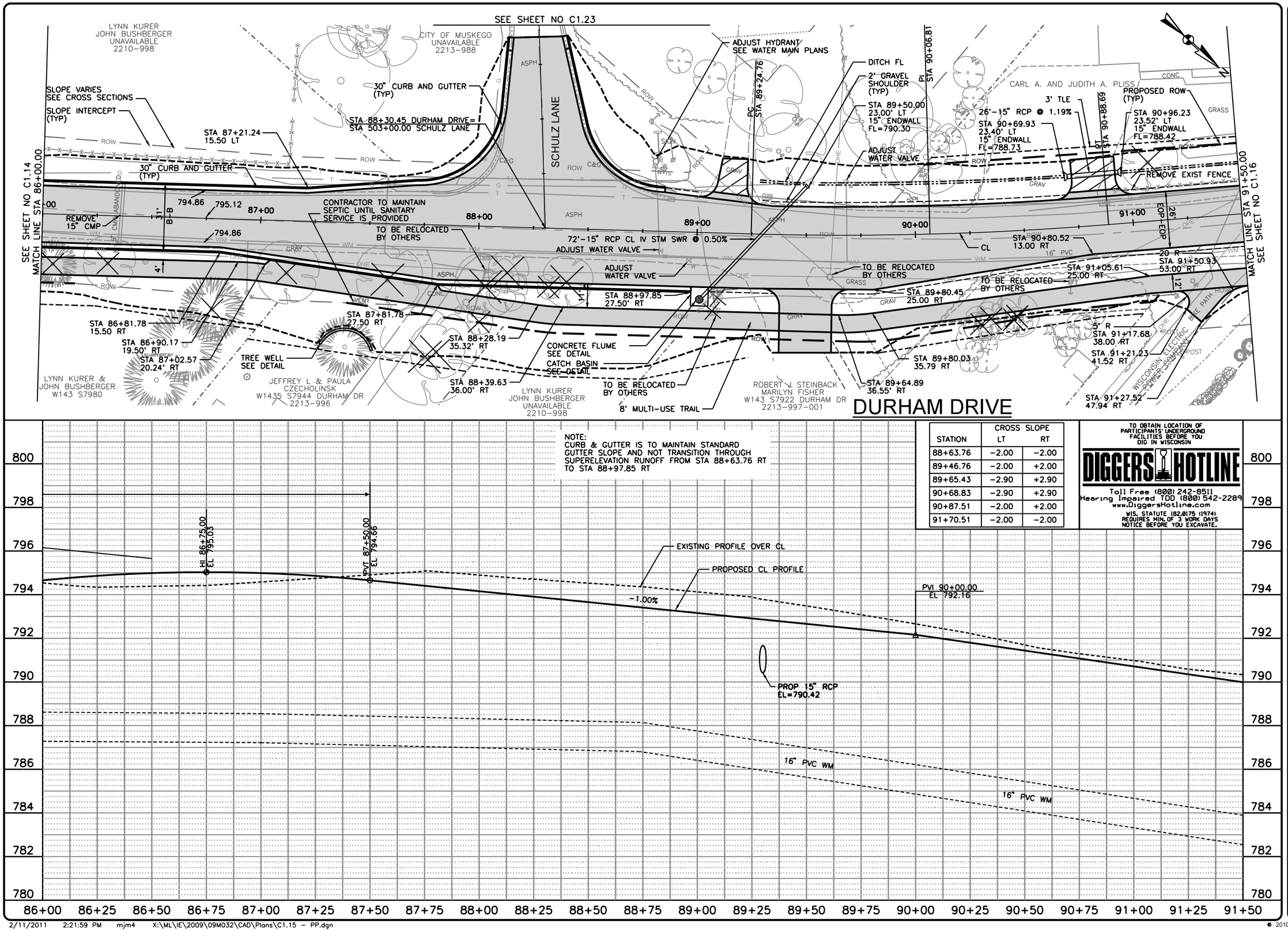

STATION	CROSS SLOPE LT	CROSS SLOPE RT
88+63.76	-2.00	-2.00
89+46.76	-2.00	+2.00
89+65.43	-2.90	+2.90
90+68.83	-2.90	+2.90
90+87.51	-2.00	+2.00
91+70.51	-2.00	-2.00

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DURHAM DRIVE

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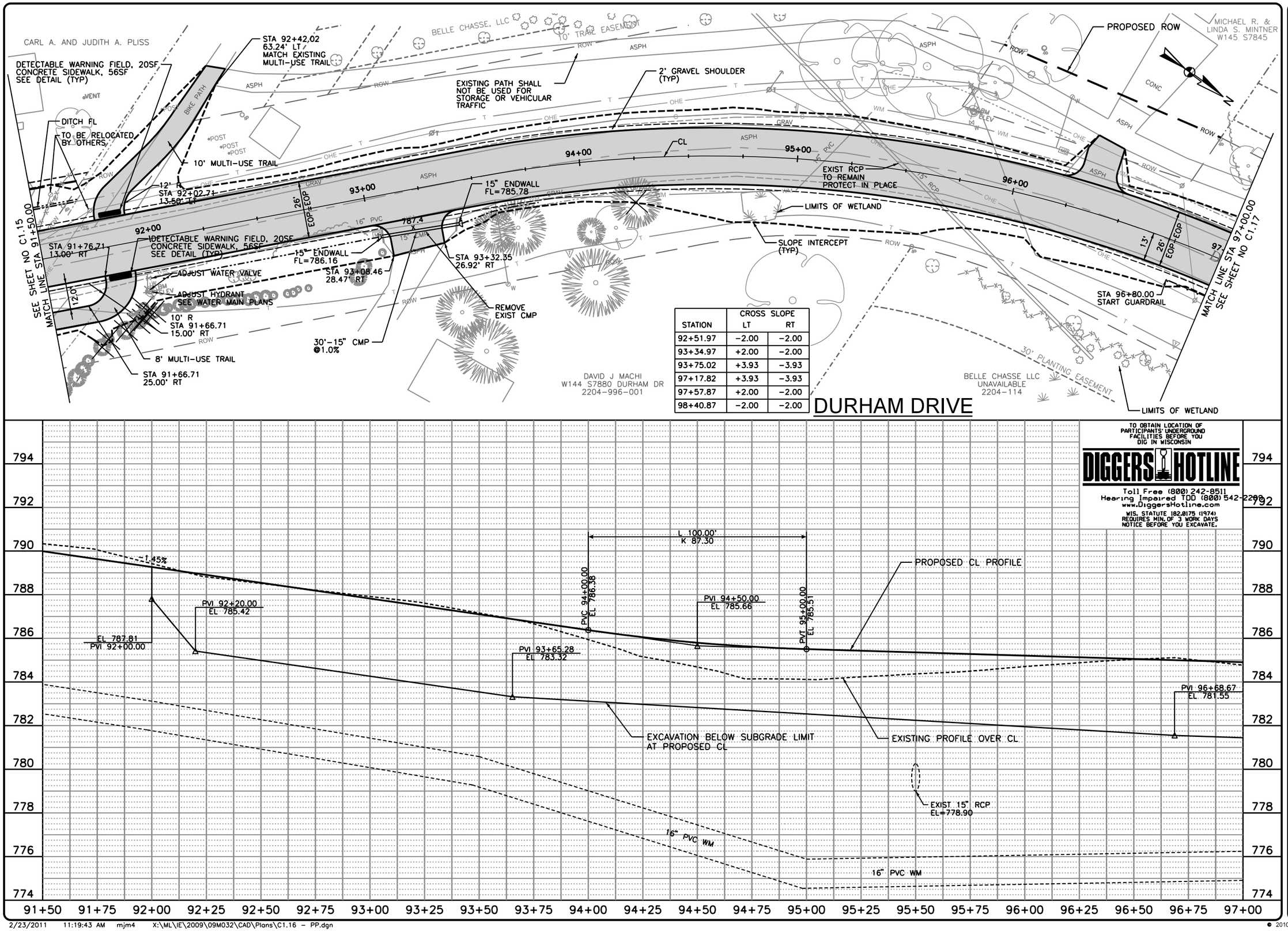

STATION	CROSS SLOPE LT	CROSS SLOPE RT
92+51.97	-2.00	-2.00
93+34.97	+2.00	-2.00
93+75.02	+3.93	-3.93
97+17.82	+3.93	-3.93
97+57.87	+2.00	-2.00
98+40.87	-2.00	-2.00

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PROJECT ID 09M032

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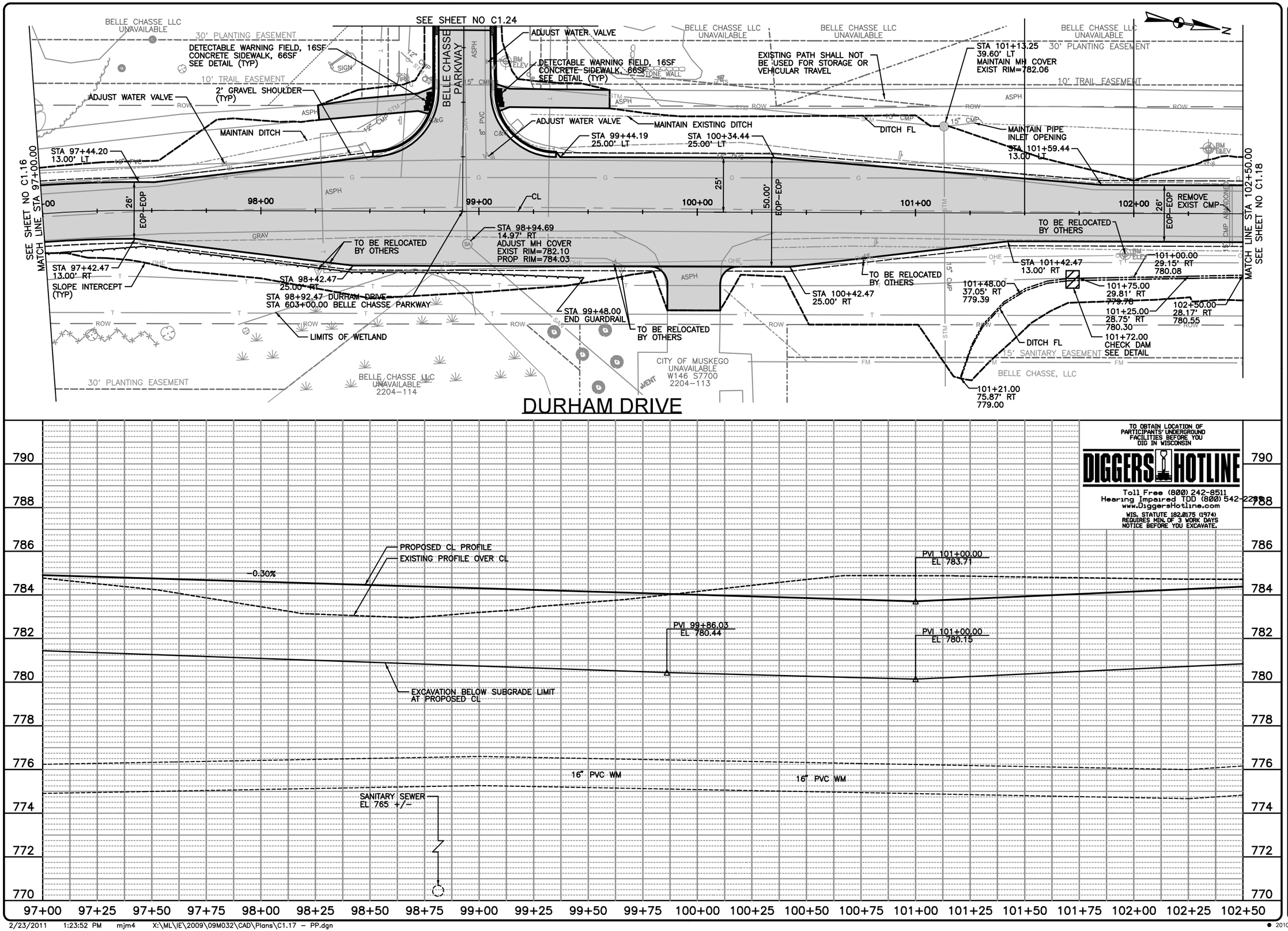

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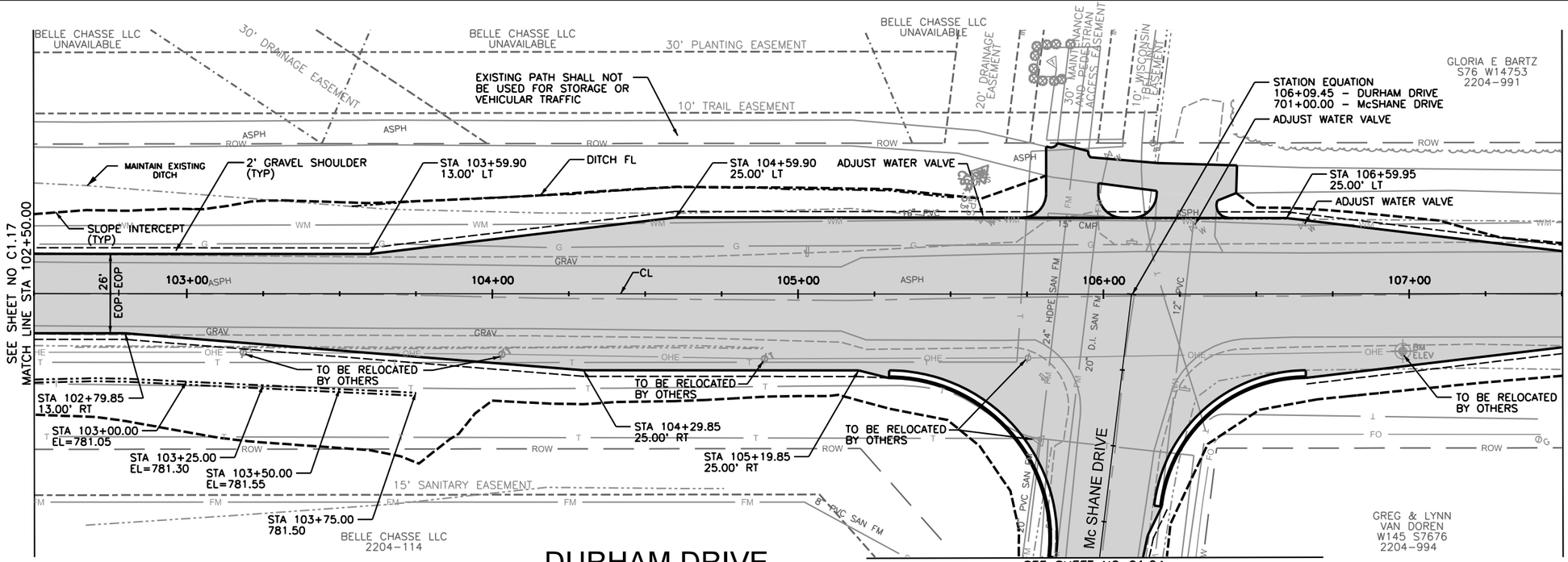
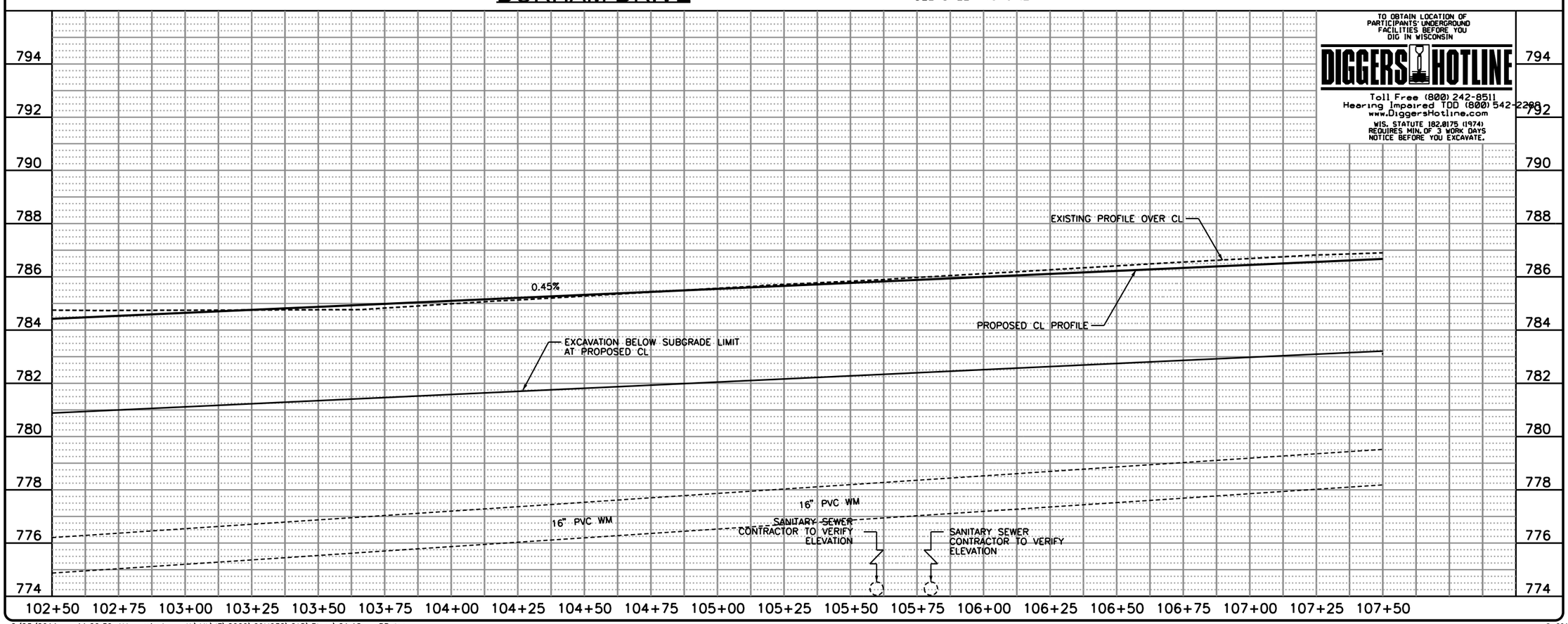


DURHAM DRIVE



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOTLINE

Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

Foth
Foth Infrastructure & Environment, LLC
2514 S. 102nd Street
Suite 278, Lincoln Center II
West Allis, WI 53227
Phone: 414-336-7900 Fax: 414-336-7901

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DURHAM DRIVE
RECONSTRUCTION
FINAL PLANS
2/17/11
CITY OF MUSKEGO

MUSKEGO, WISCONSIN

WAUKESHA COUNTY

NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			

RECORD DRAWING OF COMPLETED CONSTRUCTION BY

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

DATE OF PREPARATION

	BY	DATE
SURVEYED	TAA	
DRAWN	GTW	02/23/10
DESIGNED	CLM1	02/23/10
CHECKED	PAV	05/14/10

DURHAM DRIVE

STORM SEWER AND ROADWAY

VERTICAL SCALE: 2 0

HORIZONTAL SCALE: 0 20 40

PROJECT ID 09M032

C1.18

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