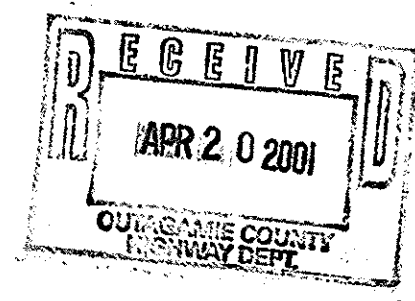
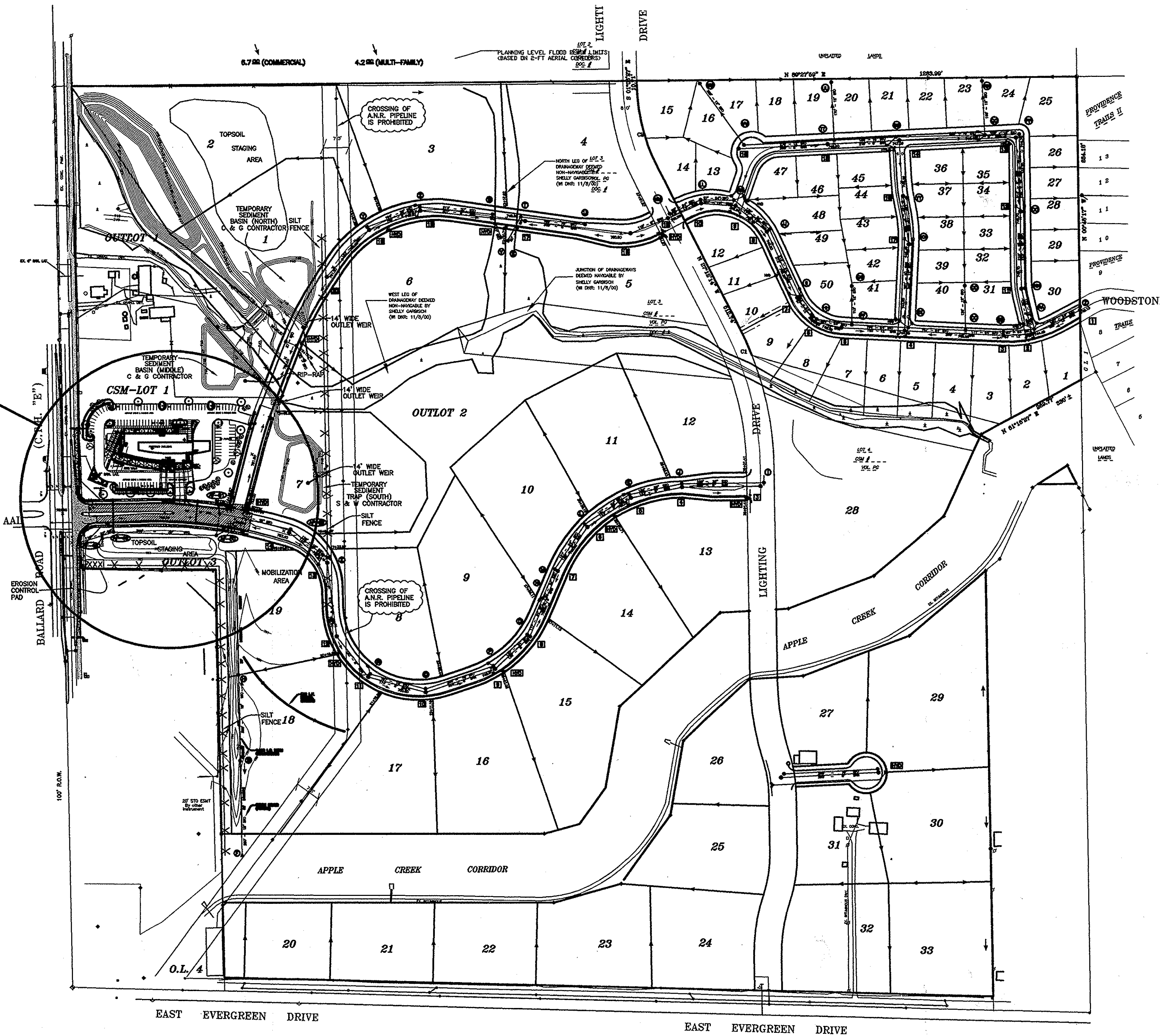


AAL BUSINESS PARK

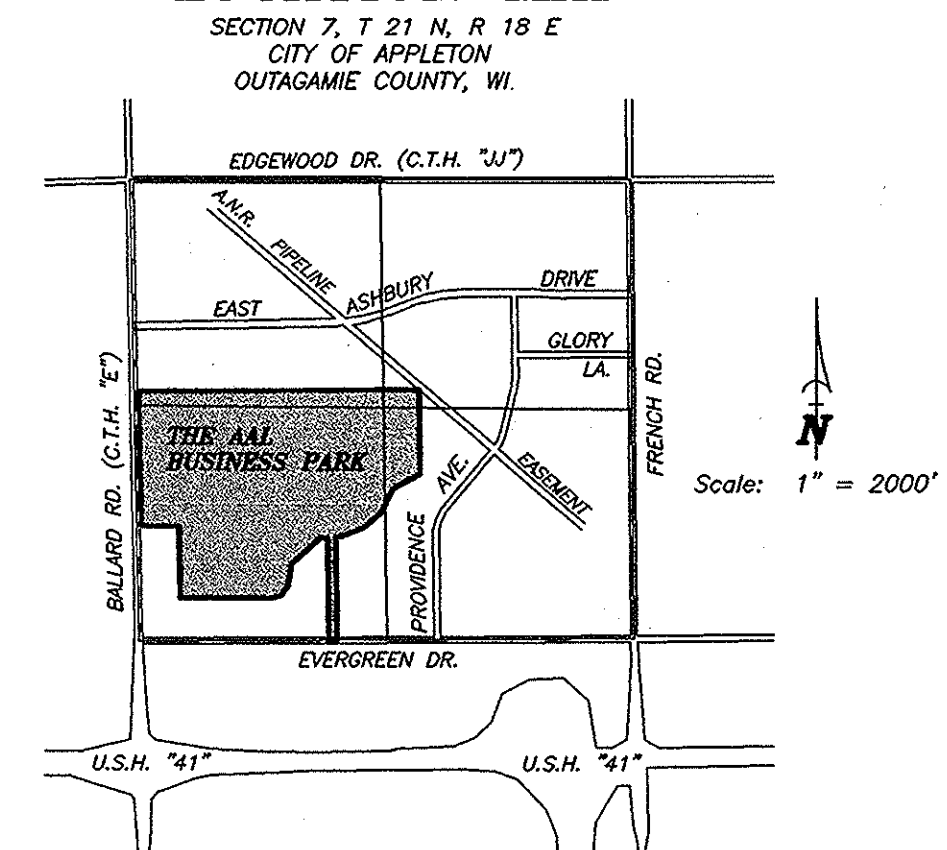
PROJECT LOCATION



GENERAL NOTES

1. THE WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF APPLETON'S STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION. D.N.R. APPROVAL NO. 99-0034.
2. THE LOCATION OF EXISTING UTILITIES FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE FACILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT WITH THE WORK IS DISCOVERED.

LOCATION MAP



INDEX OF SHEETS

DRAWING NO.	DESCRIPTION
605-000-1	COVER SHEET
605-000-2	MILESTONE DRIVE: PLAN & PROFILE
605-000-3	WOODSTONE LANE: PLAN & PROFILE
605-000-4	BALLARD ROAD: RE-CONFIGURATION
605-000-5	ENTRANCE & BUFFER BERM PLAN
605-000-6	EROSION CONTROL PLAN
605-000-7	CONSTRUCTION DETAILS
605-000-8	POND: SURVEY CONTROL POINTS (EARTH TECH)
605-000-9	POND: GRADING PLAN (EARTH TECH)
605-000-10	POND: LANDSCAPING PLAN (EARTH TECH)
605-000-11	POND: CROSS SECTIONS (EARTH TECH)
605-000-12	POND: CROSS SECTIONS (EARTH TECH)
605-000-13	POND: CROSS SECTIONS (EARTH TECH)
605-000-14	POND: CROSS SECTIONS & DETAILS (EARTH TECH)
605-000-15	POND: CROSS SECTIONS & DETAILS (EARTH TECH)
605-000-16	POND: MISC. DETAILS & NOTES (EARTH TECH)

BENCHMARKS:
 CHISELED X ON EAST SIDE OF BALLARD ROAD, 2.5' EAST OF WEST EDGE OF CONC. SIDEWALK,
 37' NORTH OF P.P. AND 150' NORTH OF A.A.L.'S BALLARD ROAD ENTRANCE.....753.42 USGS
 CHISELED "X" ON THE EAST SIDE OF BALLARD ROAD, 3' EAST OF WEST EDGE OF CONC. SIDEWALK,
 AND 89' SOUTH OF P.P.....754.69 USGS
 TOP OF HYDRANT BELOW NUT @ NW CORNER LOT 5, 720' SOUTH OF CENTER OF SECTION 7.....757.52 USGS
 TOP OF HYDRANT @ NW CORNER INT, 300' EAST & 70' NORTH OF CENTER OF SECTION 7.....759.51 USGS

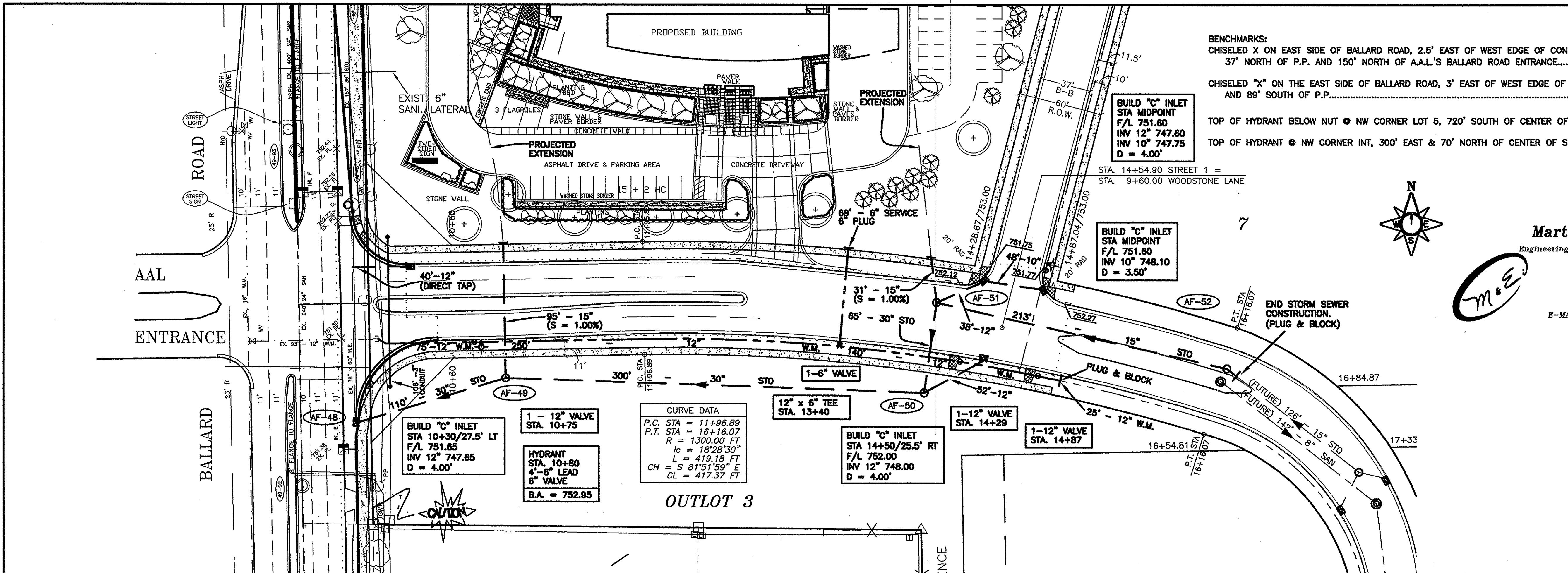
Martenson & Eisele, Inc.
 Engineering - Surveying - Planning - Architecture
 1919 American Court
 Neenah, WI 54956
 (920) 791-0881
 FAX (920) 793-8578
 E-MAIL: mail@martenson-eisele.com

NO.	DATE	REVISION

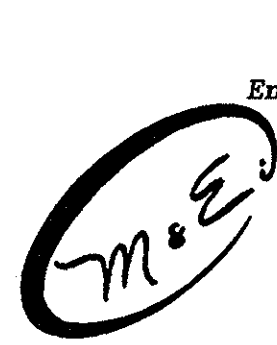
AAL BUSINESS PARK
 PROJECT COVER SHEET
 CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

FIELD BK	PAGE	DATE	COMPUTER FILE
		3/21/01	605000/Cover/605000b001

DRAWING NO.
605-000-1



BENCHMARKS:
 CHISELED X ON EAST SIDE OF BALLARD ROAD, 2.5' EAST OF WEST EDGE OF CONC. SIDEWALK,
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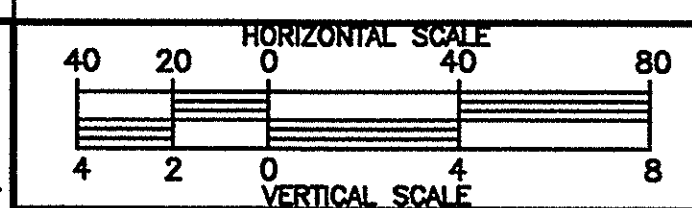


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 E-MAIL mail@martenson-eisele.com

T.C. = TOP OF COPPER
 C.B. = FINISH CURB BOX ELEVATION
 B.A. = HYDRANT BREAK AWAY ELEVATION

NOTE:
 1. USE MEGA-LUG FITTINGS FOR ALL MECHANICAL WATERMAIN JOINTS.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- STORM SEWER**
- 478 L.F. 30" RCP STORM MAIN
 - 217 L.F. 15" PVC STORM MAIN
 - 6.08 V.F. BOX MANHOLE W/INLET TOP (1)
 - 22.98 V.F. 5' DIA. MANHOLE (3)
 - 6.26 V.F. STANDARD MANHOLE (1)
 - 164 L.F. 15" PVC SERVICE LAT (2)
 - 4 EA. TYPE "C" INLET W/CASTING
 - 130 L.F. 12" INLET LEAD
 - 48 L.F. 10" INLET LEAD

- WATER MAIN**
- 490 L.F. 12" PVC WATER MAIN
 - 1 EA. SUPPLY & INSTALL HYDRANT
 - 3 EA. 12" VALVE W/ BOX
 - 1 EA. 6" VALVE W/BOX
 - 69 L.F. 6" SERVICE

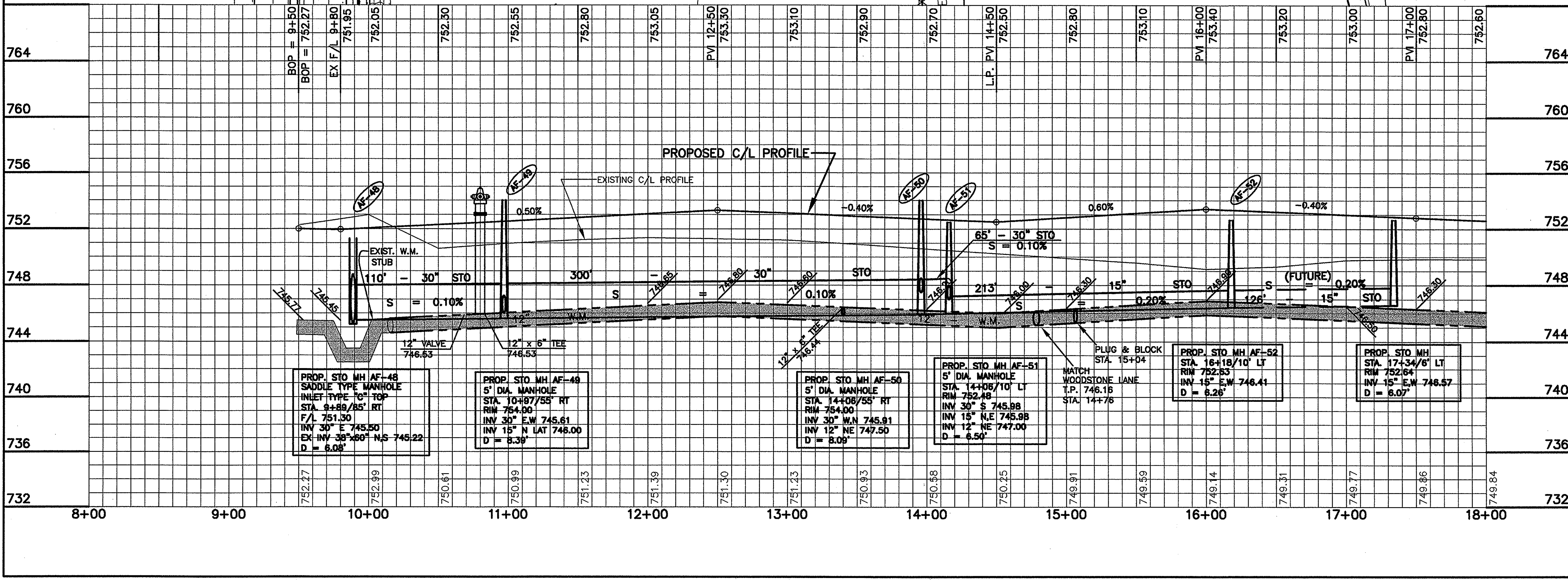
SANITARY	LATERALS	GAS	TELEPHONE
STORM	WATER	ELECTRIC	REVISIONS

CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

SEWER & WATER
 IN
MILESTONE DRIVE
 BALLARD ROAD TO STA. 15+00

CRC
 DATE: 03/21/01
 SCALE: 1"=40' HOR. 1"=4' VERT.
 DRG. NO. 1/4 SEC. V45

605-000



PROP. STO. MH AF-48
 SADDLE TYPE MANHOLE
 INLET TYPE "C" TOP
 STA. 9+88/95' RT
 F/L 751.30
 INV 30" E 745.50
 EX INV 38" x 80" N/S 746.22
 D = 6.08'

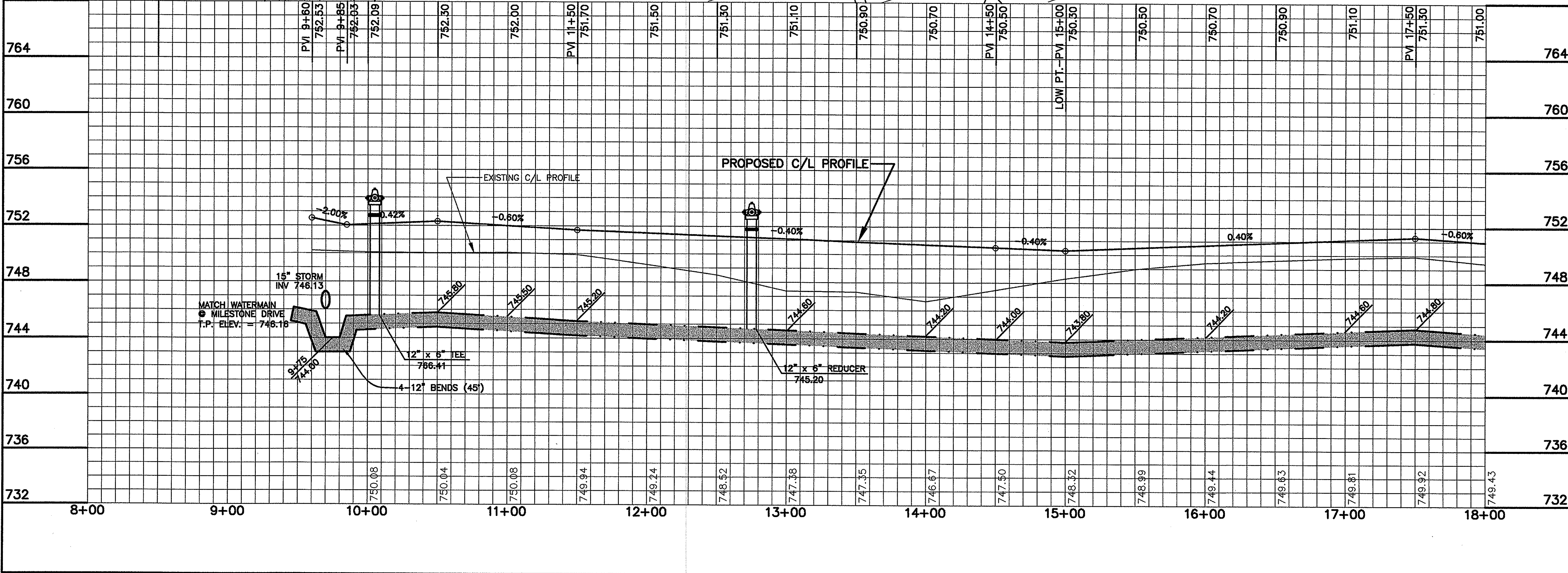
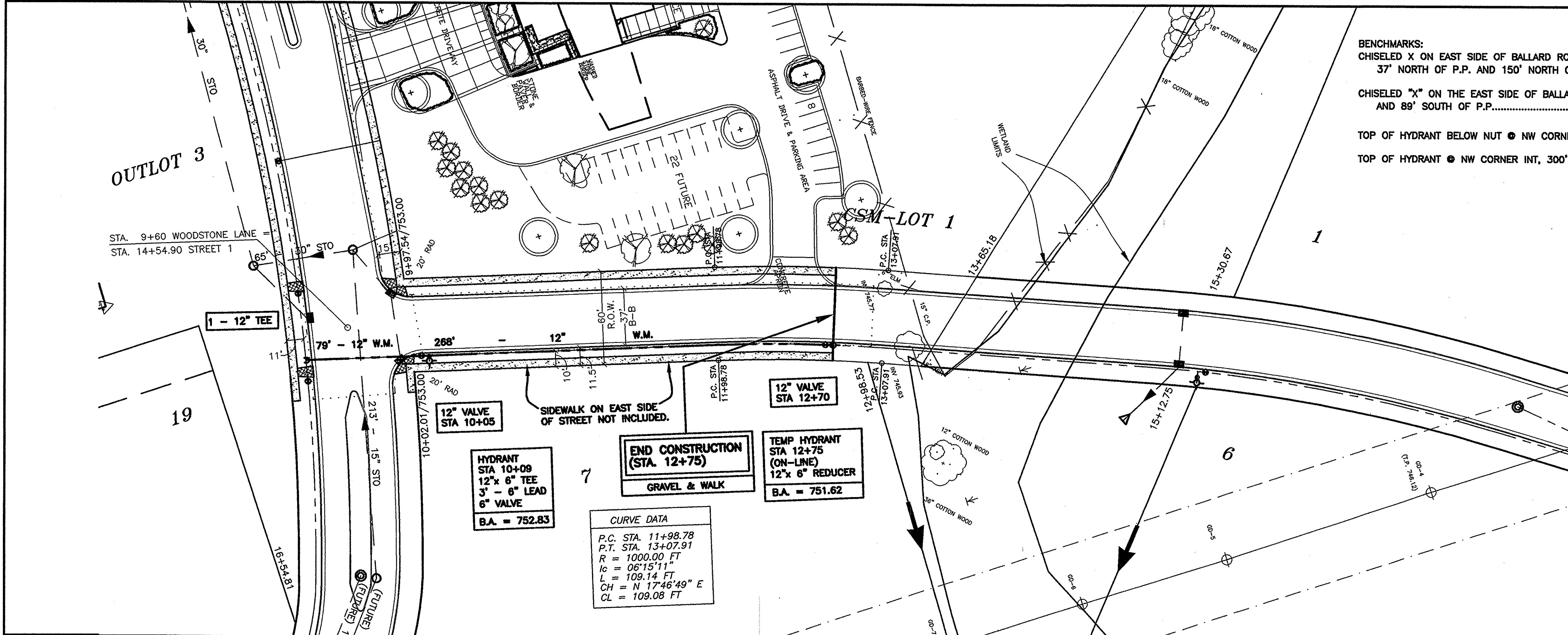
PROP. STO. MH AF-49
 5' DIA. MANHOLE
 STA. 10+87/55' RT
 RIM 754.00
 INV 30" E.W. 745.61
 INV 15" N LAT 746.00
 D = 8.39'

PROP. STO. MH AF-50
 5' DIA. MANHOLE
 STA. 14+08/55' RT
 RIM 754.00
 INV 30" W.N. 745.91
 INV 12" NE 747.50
 D = 8.09'

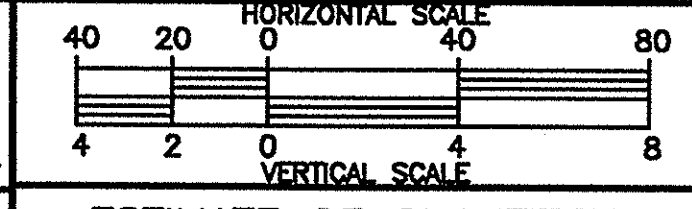
PROP. STO. MH AF-51
 5' DIA. MANHOLE
 STA. 14+08/10' LT
 RIM 752.48
 INV 30" S 745.98
 INV 15" N.E. 745.98
 INV 12" NE 747.00
 D = 6.50'

PROP. STO. MH AF-52
 STA. 16+18/10' LT
 RIM 752.85
 INV 15" E.W. 746.41
 D = 6.26'

PROP. STO. MH
 STA. 17+34/6' LT
 RIM 752.84
 INV 15" E.W. 746.57
 D = 6.07'



BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

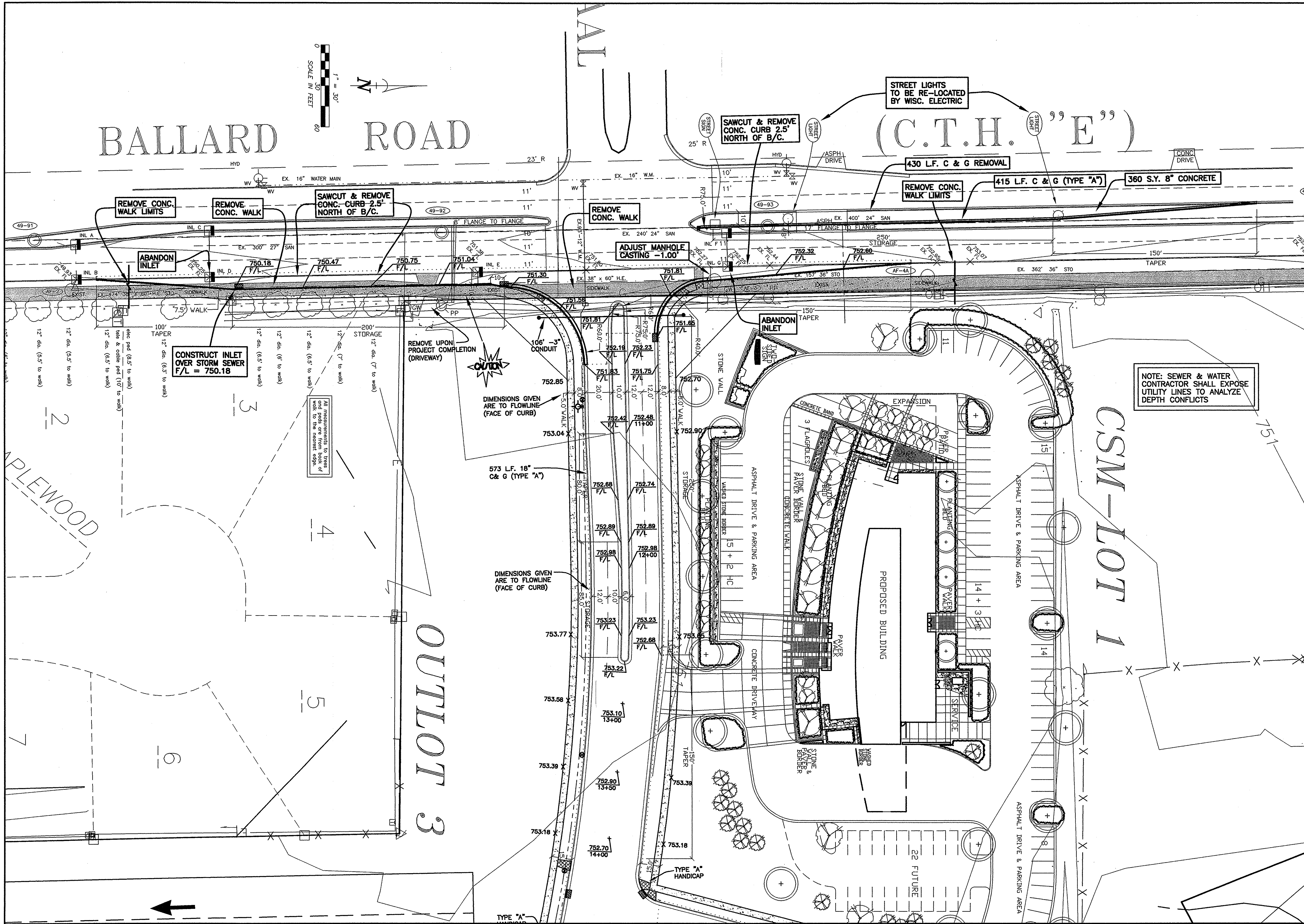
WATER MAIN
 1. 347 L.F. 12" PVC WATER MAIN
 2. 2 EA. INSTALL HYDRANT
 3. 2 EA. 12" VALVE W/ BOX

SANITARY	LATERALS	GAS	TELEPHONE
STORM	WATER	ELECTRIC	REVISIONS

CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

SEWER & WATER
 IN
WOODSTONE LANE
 MILESTONE DRIVE TO STA. 14+00

DWN: CRC CKD: JWS
 DATE: 03/13/01 APP'D:
 SCALE: 1"=40' HOR. 1"=4' VERT.
 DRG. NO. 1/4 SEC. V45 PAGE NO.
605-000 3



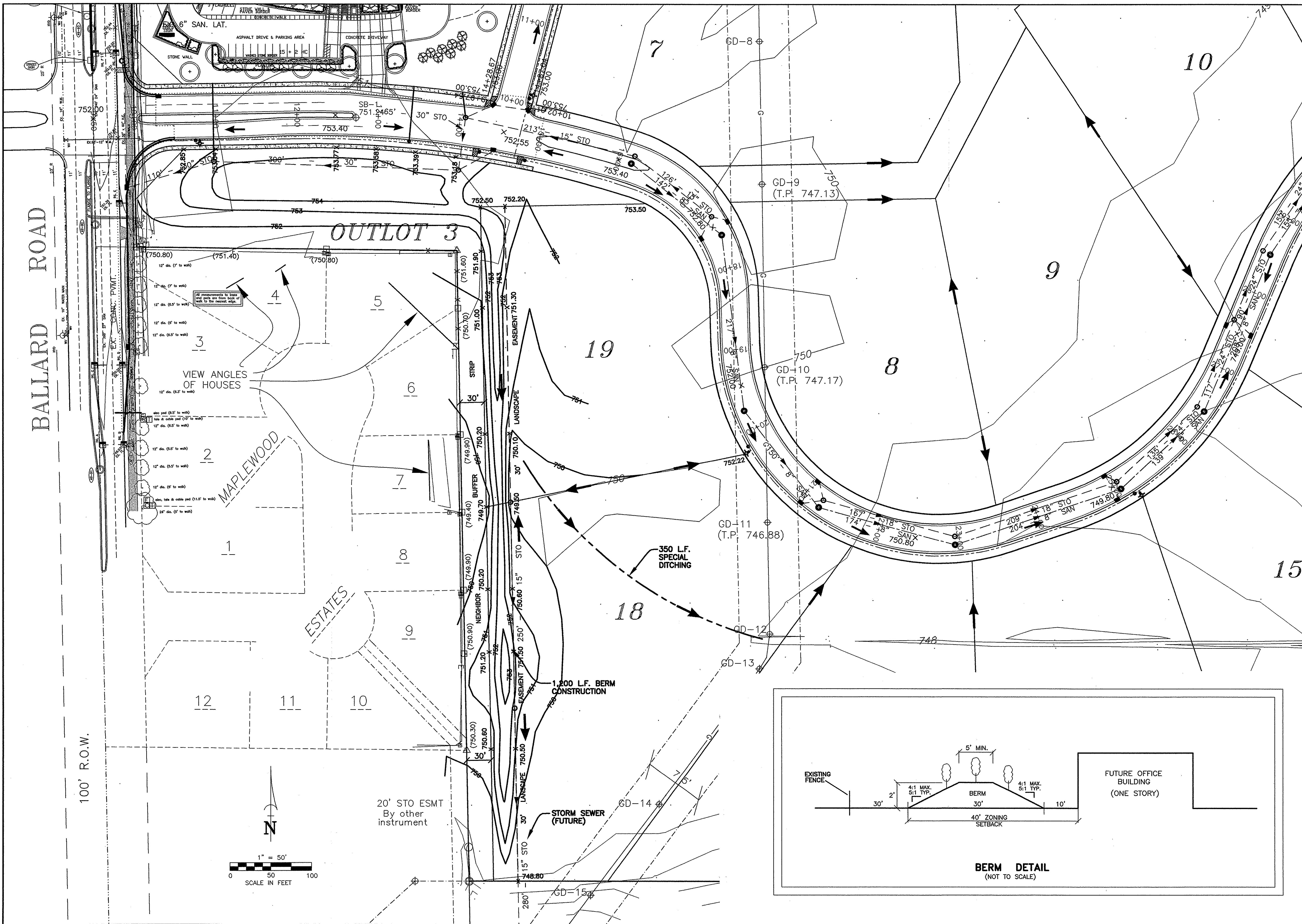
Martenson & Eisele, Inc.
 Engineering - Surveying - Planning - Architecture
 1919 American Court
 Neenah, WI 54956
 (920) 731-0381
 FAX (920) 733-8678
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DRAWN BY	CHECKED	APPROVED
CRC		

NO.	DATE	REVISION
1	4/05/01	SIDEWALK & CONDUIT

AAL BUSINESS PARK
 BALLARD ROAD: RE-CONFIGURATION
 CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

FIELD	BK	PAGE
SCALE	DATE	
1"=30'	3/21/01	
COMPUTER FILE		
DRAWING NO. 605-000-4		



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 Engineering - Surveying - Planning - Architecture
 1919 American Court
 Neenah, WI 54956
 (920) 731-0381
 FAX (920) 733-8578
 E-MAIL: mail@martenson-eisele.com

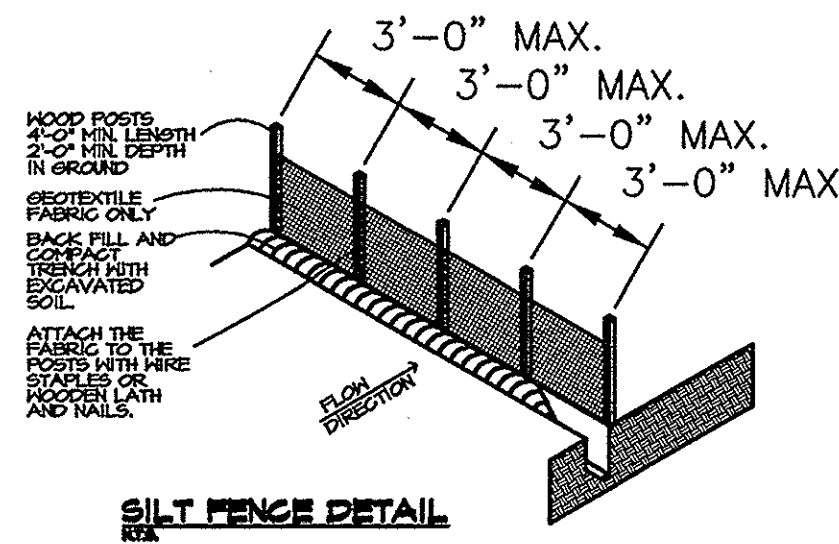
DRAWN BY	CRC	CHECKED	APPROVED	REVISION	
				NO.	DATE

AAL BUSINESS PARK
 ENTRANCE & BUFFER BERM PLAN
 CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

FIELD BK	PAGE	SCALE	DATE	COMPUTER FILE
		1" = 50'	03/21/01	05000feas.dwg

DRAWING NO. 605-000-5

EROSION CONTROL PLAN



NOTES:
 TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACK FILL & COMPACT TRENCH WITH EXCAVATED SOIL.
 HOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" X 1 1/2" OAK OR HICKORY.

AAL BUSINESS PARK - SEDIMENT TRAP SUMMARY

South Sediment Trap - S & W Contractor

Outlet elevation = 748.0
 Top of berm elevation = 750.0
 Bottom elevation of permanent wet pool = 746.0. Minimum water surface area shall be 3750 ft²
 Top of rock elevation at outlet = 749.0 (elev. to be adjusted to 749.5 by G&G Contractor)
 Length of rock weir outlet = 14 feet
 Top width of berm = 4 feet
 Berm side slope = 2:1
 * Temporary berm to be constructed connecting to elevation 749.2 as shown on plan.
 * Approx. 140 yds² excavation in permanent wet pool needed for 450 feet of berm.
 Size permanent wet pool as needed to attain needed fill for berm construction.

Middle Sediment Trap - G & G Contractor

Outlet elevation = 747.0
 Top of berm elevation = 750.0
 Bottom elevation of permanent wet pool = 745.0. Minimum water surface area shall be 3750 ft²
 Top of rock elevation at outlet = 749.5
 Length of rock weir outlet = 14 feet
 Top width of berm = 4 feet
 Berm side slope = 2:1
 * Approx. 300 yds² excavation in permanent wet pool needed for 600 feet of berm.
 Size permanent wet pool as needed to attain needed fill for berm construction.

North Sediment Trap - G & G Contractor

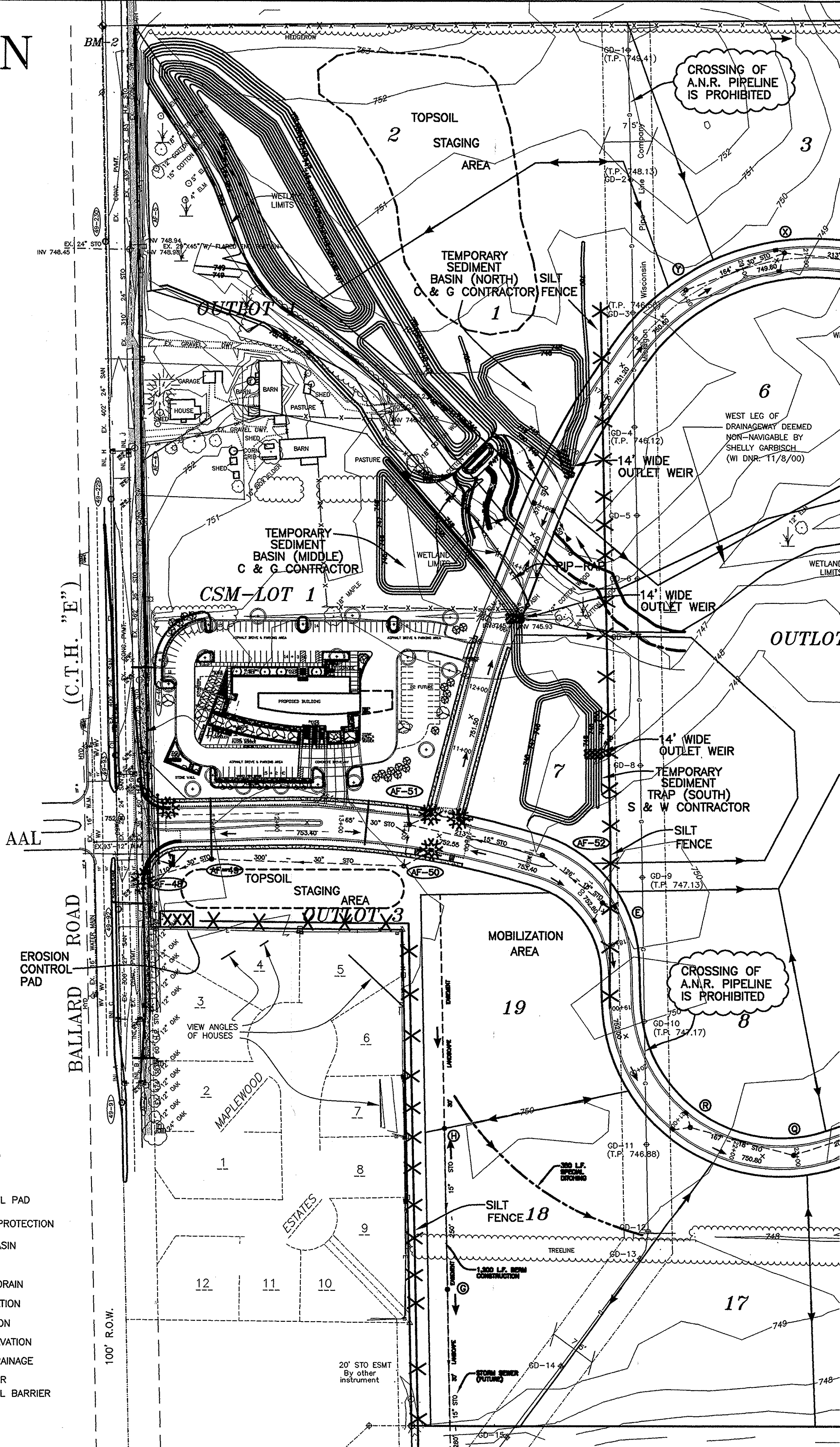
Outlet elevation = 748.0
 Top of berm elevation = 750.0
 Bottom elevation of permanent wet pool = 746.0. Minimum water surface area shall be 5000 ft²
 Top of rock elevation at outlet = 749.5
 Length of rock weir outlet = 14 feet
 Top width of berm = 4 feet
 Berm side slope = 2:1
 * Approx. 300 yds² excavation in permanent wet pool needed for 930 feet of berm.
 Size permanent wet pool as needed to attain needed fill for berm construction.

General Notes For Sediment Trap Construction

- * Strip topsoil from under the planned berm.
- * Immediately topsoil, seed, and mulch the sediment trap berm and other areas outside the permanent wet pool that were disturbed during sediment trap construction.
- * Weir outlets shall consist of 9 inch average stone with a maximum stone size of 14 inches. The upstream side shall be covered with 1 foot of 1 to 2 inch clean crushed stone. The stone shall be placed over geotextile filter fabric to prevent undercutting below the stone. Place stone so that the center of the weir is 6 inches lower than the edges.
- * Stabilize the channel on the downstream side of the weir outlet with 9 inch average stone for a minimum of 5 feet to prevent scour. The permanent wet pool shall have a minimum length to width ratio of 2:1 with a minimum side slope of 2:1.

LEGEND	
	SILT FENCE
	EROSION CONTROL PAD
	INLET: EROSION PROTECTION
	STORM CATCH BASIN
	STORM MANHOLE
	INLET OR YARD DRAIN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	FIRST FLOOR ELEVATION
	DIRECTION OF DRAINAGE
	EXISTING CONTOUR
	EROSION CONTROL BARRIER

TOPOGRAPHIC LEGEND			
	1" x 24" IRON PIPE SET		WETLANDS
	1-1/4" x 30" REBAR SET		OVERHEAD POWER LINES
	CHEESEHEAD "X" SET		UNDERGROUND ELECTRIC
	3/4" REBAR FOUND		UNDERGROUND TELEPHONE
	1" IRON PIPE FOUND		UNDERGROUND GAS
	1-1/4" REBAR FOUND		UNDERGROUND CABLE TV
	2" IRON PIPE FOUND		EXIST. FENCE LINE
	CHEESEHEAD "X" FOUND		EXIST. HYDRANT
	GOVERNMENT CORNER		EXIST. SPOT ELEVATION
	CONTOUR W/ ELEVATION		EXIST. SPOT ELEVATION
	SOIL BORING		LIGHT POLE
	CONIFEROUS TREE		TELEPHONE PEDESTAL
	DECIDUOUS TREE		ELECTRIC PEDESTAL
	EXIST. WOODS LINE		GAS VALVE
	WATER VALVE		WATER STOP BOX
	EXIST. STORM MANHOLE		STORM INLET
	YARD DRAIN		EXIST. SANITARY MANHOLE
	EXIST. SANITARY MANHOLE		EXIST. SAN. SEWER
	EXIST. SILT. SEWER		EXIST. WATER MAIN
	EXIST. SPOT ELEVATION		FIRST FLOOR = 800.00
	TOPSOIL DEPTH		



EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL SILT FENCE OR HAY BALE EROSION BARRIERS AROUND THE PERIMETER OF THE PROJECT AS SHOWN ON THIS PLAN PRIOR TO ANY CONSTRUCTION INCLUDING STRIPPING TOPSOIL.
2. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF HIS CONTRACT.
3. THE CONTRACTOR SHALL MAINTAIN SAID EROSION CONTROL DEVICES UNTIL THE COMPLETION OF HIS CONTRACT AND SHALL NOT REMOVE THE EROSION CONTROL DEVICES UNTIL VEGETATION IS ESTABLISHED.
4. THE GRADING CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IMMEDIATELY WHEN FINAL GRADE IS ESTABLISHED. SEED MIXTURE SHALL BE ACCORDING TO THE SPECIFICATIONS.
5. THE CONTRACTORS SHALL PREVENT TRACKING ON EXISTING STREETS. ANY SEDIMENT TRACKED ONTO EXISTING STREETS SHALL BE CLEANED UP DAILY.
6. INSTALLATION AND MAINTENANCE OF EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
7. FILTER BAGS FILLED WITH 1 INCH CRUSHED STONE MAY ALSO BE USED IN PLACE OF GEOTEXTILE FABRIC. APPROPRIATE TRAFFIC BARRICADES SHALL BE USED FOR VEHICLE SAFETY AND TO MAINTAIN THE INTEGRITY OF EROSION CONTROL MEASURES.
8. STREET TERRACE SHALL BE SEED/MULCH WITHIN 10 DAYS OF COMPLETION.
9. SILT FENCES DAMAGED DURING LATERAL CONSTRUCTION SHALL BE REPAIRED AS SOON AS WORK IS COMPLETE IN THAT AREA.

GENERAL NOTES:

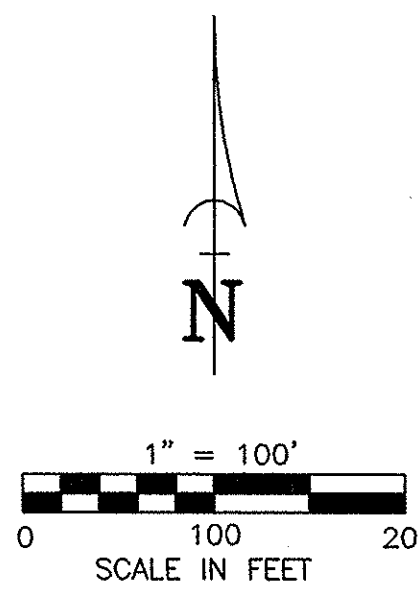
1. SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROLS DESIGNED FOR THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. (NOT ANTICIPATED)
2. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM.
3. TRACKING. THIS SITE SHALL STABILIZE THE EXISTING DRIVE WITH A MINIMUM 6 INCH DEPTH OF 2 TO 3 INCH AGGREGATE SUFFICIENT TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS AS APPROVED BY THE DIRECTOR. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. FLUSHING MAY NOT BE USED UNLESS THE SEDIMENT WILL BE CONTROLLED BY A FILTER FABRIC BARRIER, SEDIMENT TRAP, SEDIMENT BASIN OR EQUIVALENT.
4. DRAIN INLET PROTECTION. ALL ON-SITE STORM DRAIN INLETS AND THE IMPACTED DOWNSTREAM INLETS SHALL BE PROTECTED WITH THE DANDY BAG CONFIGURATION.
5. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF LAND DISTURBING ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
6. DISTURBANCE TIMING. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. EXISTING VEGETATION SHALL BE MAINTAINED AS LONG AS POSSIBLE.

CONTRACTOR RESPONSIBILITIES:

1. NOTIFY THE DIRECTOR WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING OR LAND DEVELOPMENT ACTIVITY.
2. NOTIFY THE DIRECTOR OF COMPLETION OF ANY EROSION CONTROL MEASURES WITHIN 3 DAYS AFTER COMPLETION.
3. OBTAIN PERMISSION IN WRITING FROM THE DIRECTOR PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4. INSTALL ALL EROSION CONTROL MEASURES AS IDENTIFIED IN THE APPROVED EROSION CONTROL PLAN.
5. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGEWAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES.
6. MAINTAIN ALL ON- AND OFF- SITE STORM WATER DRAINAGE SYSTEMS AS IDENTIFIED ON THE EROSION CONTROL PLAN.
7. REPAIR ANY EROSION CONTROL SYSTEM INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN.
8. INSPECT THE CONSTRUCTED EROSION CONTROL MEASURES AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS.
9. ALLOW THE DIRECTOR TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING COMPLIANCE WITH THE EROSION CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE EROSION CONTROL PLAN.
10. KEEP A COPY OF THE APPROVED EROSION CONTROL PLAN ON THE SITE.
11. SEED/FERT/MULCH SHALL BE PERFORMED PER CITY OF APPLETON REQUIREMENT.
12. GRADING CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL TERMINATION NOTICE IS ISSUED. THE CITY MAY WITHOLD AUTHORIZATION OF PAYMENT FOR UP TO 20% OF EROSION CONTROL PRACTICES UNTIL OCTOBER 1, 2000.
13. ALL DISTURBED AREAS SHALL BE RESTORED WITHIN 10 DAYS OF COMPLETION OF WORK WITHIN THESE AREAS. THIS INCLUDES SOIL STOCKPILES, WHICH SHALL BE STABILIZED BY MULCHING, TEMPORARY SEEDING, SODDING OR COVERING W/ TARPS.
14. GRADE & GRAVEL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEVICES AFTER SITE STABILIZATION

CONSTRUCTION SEQUENCE

1. INSTALLATION OF SILT FENCE.
2. STRIPPING OF TOPSOIL (ROAD RIGHT-OF-WAYS).
3. SEWER & WATER CONSTRUCTION.
4. CONSTRUCTION OF TEMPORARY STORM WATER DIVERSION DITCH.
5. TOPSOIL STRIPPING FOR THE POND.
6. EXCAVATION OF THE POND.
 - A. DELIVERY OF CLAY TO BANK FACILITY.
 - B. DELIVERY OF CLAY TO MILESTONE DRIVE AND WOODSTONE LANE.
 - C. DELIVERY OF CLAY TO LIGHTNING DRIVE.
7. FINE GRADING & RESTORATION OF POND.
8. CONSTRUCTION OF MILESTONE DRIVE AND WOODSTONE LANE.
9. CONSTRUCTION OF BALLARD RE-CONFIGURATION.
10. UTILITY INSTALLATION.
11. STABILIZATION OF ALL DISTURBED AREAS.



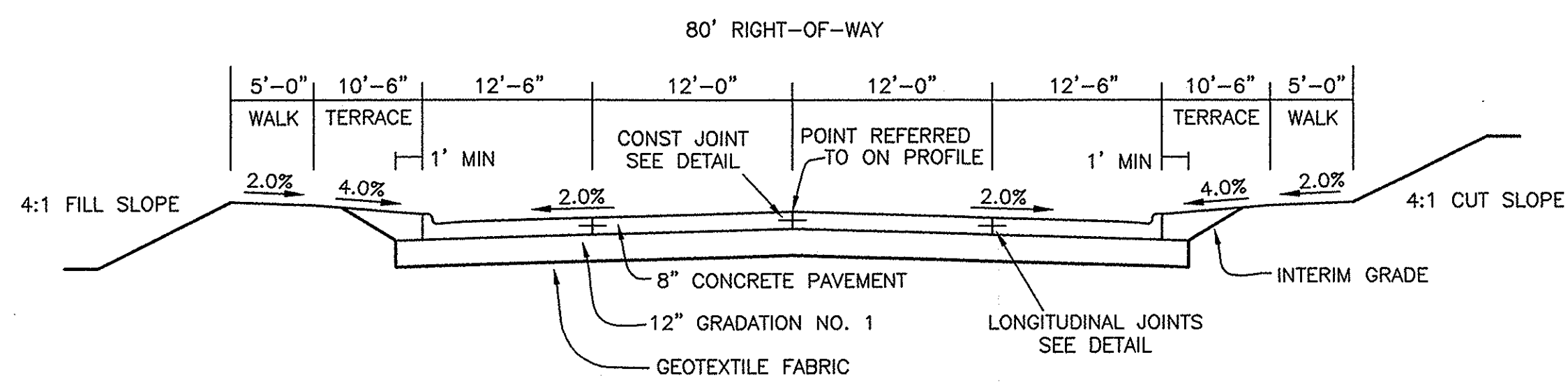
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 E-MAIL mail@martenson-eisele.com

NO.	DATE	REVISION	DRAWN BY	CHECKED	APPROVED
1	4/05/01				

AAL BUSINESS PARK
EROSION CONTROL PLAN
 CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

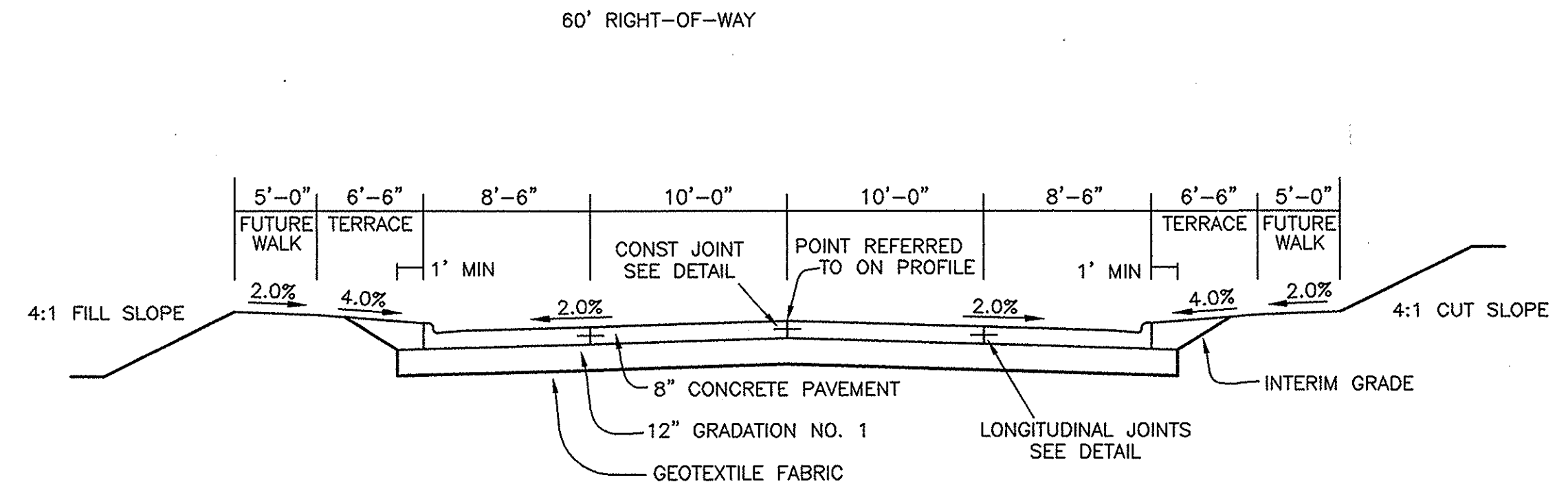
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DRAWING NO. 605-000-6



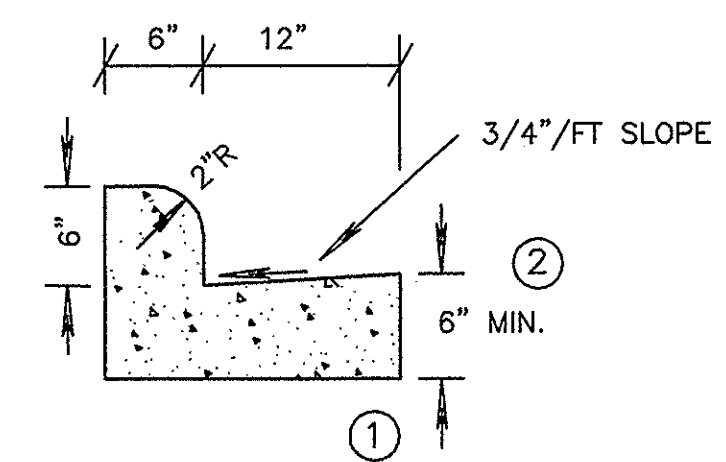
NOTE:
 ALL PAVEMENT SHALL BE INTEGRAL CURB UNLESS OTHERWISE NOTED.

**TYPICAL STREET CROSS SECTION
 MILESTONE DRIVE**
 (NOT 49' B/B HOWEVER)



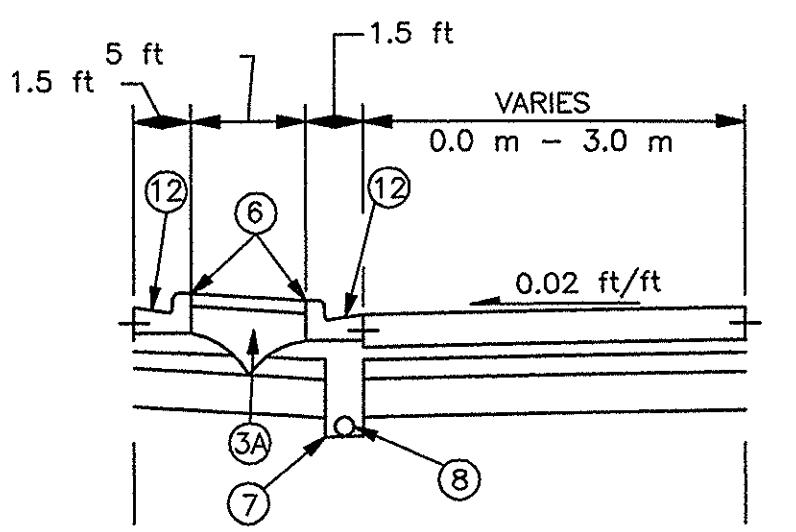
NOTE:
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**TYPICAL STREET CROSS SECTION
 WOODSTONE LANE**

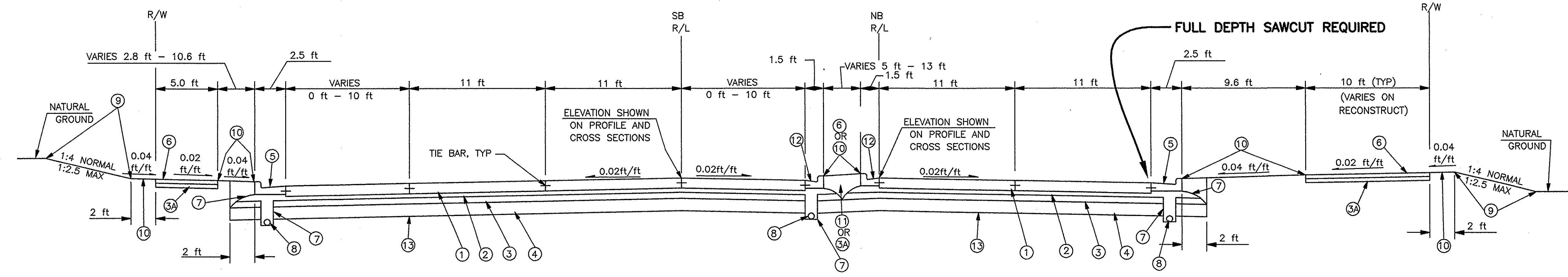


**TYPE A
 CONCRETE CURB & GUTTER 18"**
 (18" ISLAND DETAIL)
 N.T.S.

GENERAL NOTES
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
 PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.
 INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB & GUTTER.
 WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.
 UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.
 (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.
 (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.



LEGEND		
(1) DOWELED NON-REINFORCED CONCRETE PAVEMENT. (8-1/2-inches)	(4) BREAKER RUN, (12-inches) (OR AS DIRECTED BY THE ENGINEER)	(9) TOPSOIL, FERTILIZE, SEED AND MULCH
(2) CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, (4-inches)	(5) CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE A	(10) TOPSOIL, FERTILIZE, AND SOD
(3) CRUSHED AGGREGATE BASE COURSE, (6-inches)	(6) CONCRETE SIDEWALK, (4-inches)	(11) BACKFILL WITH UNCLASSIFIED
(3A) CRUSHED AGGREGATE BASE COURSE, (4-inches) (TO BE USED UNDER CONCRETE SIDEWALK)	(7) GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A	(12) CONCRETE CURB AND GUTTER, 450 mm (18-INCH), TYPE A
	(8) PIPE UNDERDRAIN, (6-inches)	(13) GEOTEXTILE FABRIC, TYPE SAS



TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

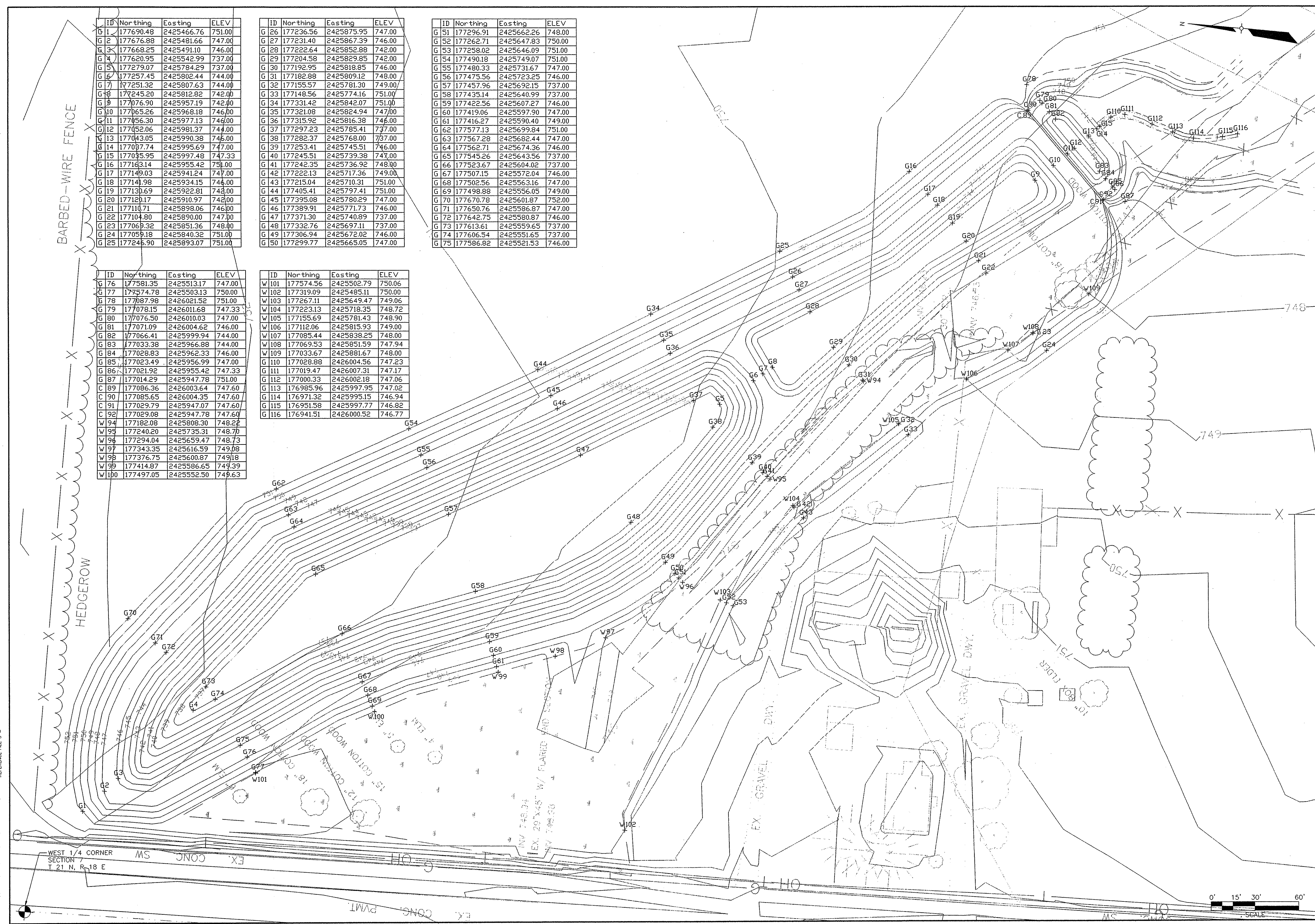
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			NO.	DATE

AAL BUSINESS PARK
 STANDARD DETAIL SHEET
 CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

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DRAWING NO.
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 PROJECT NO: 44167
 FILENAME: CONTROL01.DWG
 SHEET NO: 8
 DRAWING NO: 605-000-8



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G 2	177676.88	2425481.66	747.00
G 3	177668.25	2425491.10	746.00
G 4	177620.95	2425542.99	737.00
G 5	177279.07	2425784.29	737.00
G 6	177257.45	2425802.44	744.00
G 7	177251.32	2425807.63	744.00
G 8	177245.20	2425812.82	742.00
G 9	177076.90	2425957.19	742.00
G 10	177065.26	2425968.18	746.00
G 11	177056.30	2425977.13	746.00
G 12	177052.06	2425981.37	744.00
G 13	177043.05	2425990.38	746.00
G 14	177037.74	2425995.69	747.00
G 15	177035.95	2425997.48	747.33
G 16	177163.14	2425955.42	751.00
G 17	177149.03	2425941.24	747.00
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G 19	177130.69	2425922.81	743.00
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G 23	177069.32	2425851.36	748.00
G 24	177059.18	2425840.32	751.00
G 25	177246.90	2425893.07	751.00

ID	Northing	Easting	ELEV
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G 30	177192.95	2425818.85	746.00
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G 33	177148.56	2425774.16	751.00
G 34	177331.42	2425842.07	751.00
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G 37	177297.23	2425785.41	737.00
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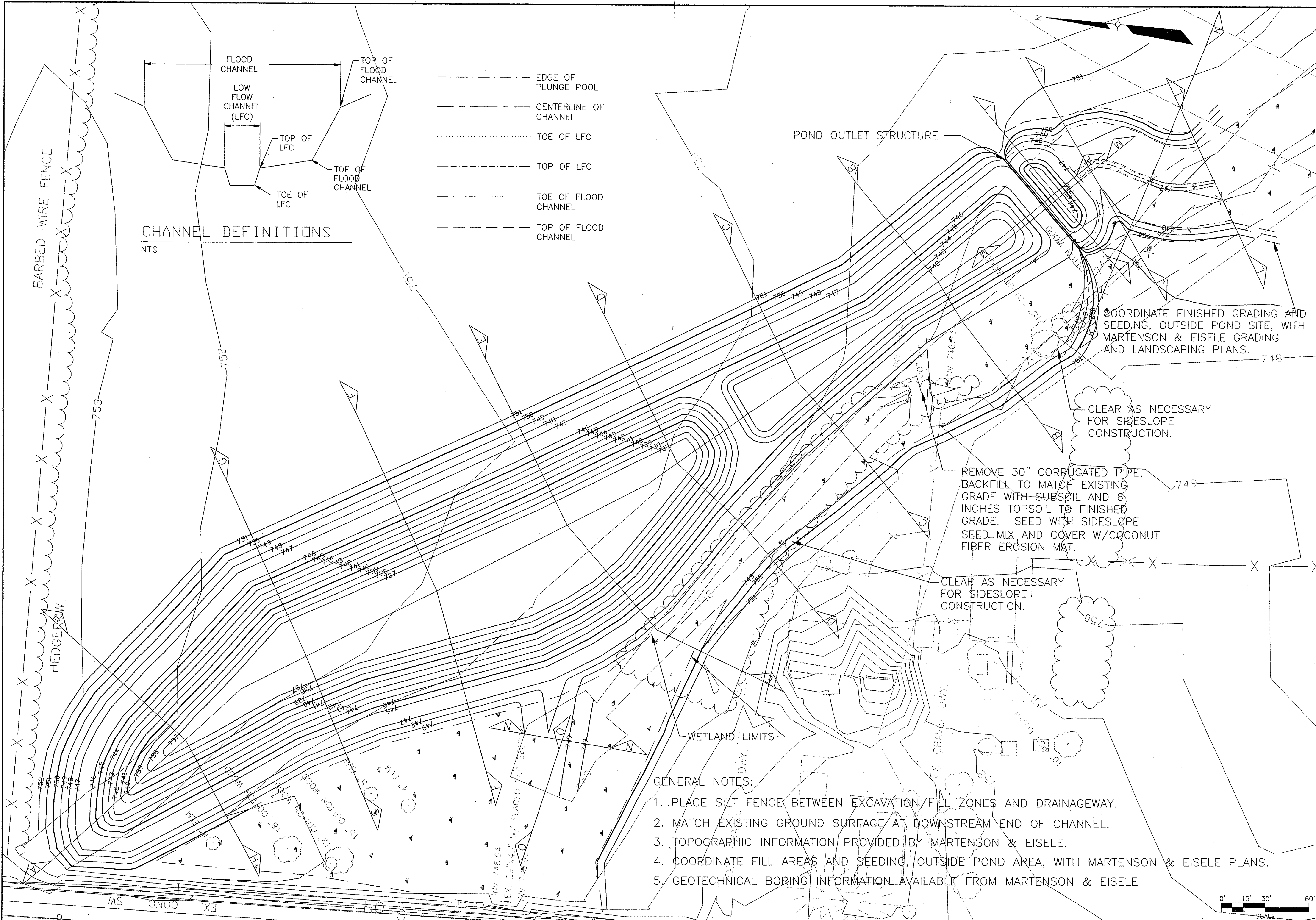
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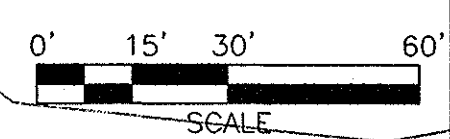
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W 105	177155.69	2425781.43	748.90
W 106	177112.06	2425815.93	749.00
W 107	177085.44	2425838.25	748.00
W 108	177069.53	2425851.59	747.94
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W 110	177028.88	2426004.56	747.23
W 111	177019.47	2426007.31	747.17
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DES RJK	04-13-2001	NO
CHK MJD		NO
APP MJD		NO
Copyright © Earth Tech, All Rights Reserved		NO
THIS DESIGN PREPARED FOR MARTENSON & EISELE BY		NO
EARTH TECH		NO
AAL BUSINESS PARK APPLETON, WI		NO
POND SITE GRADING SURVEY CONTROL POINTS		NO
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PROJECT NO	44167	NO
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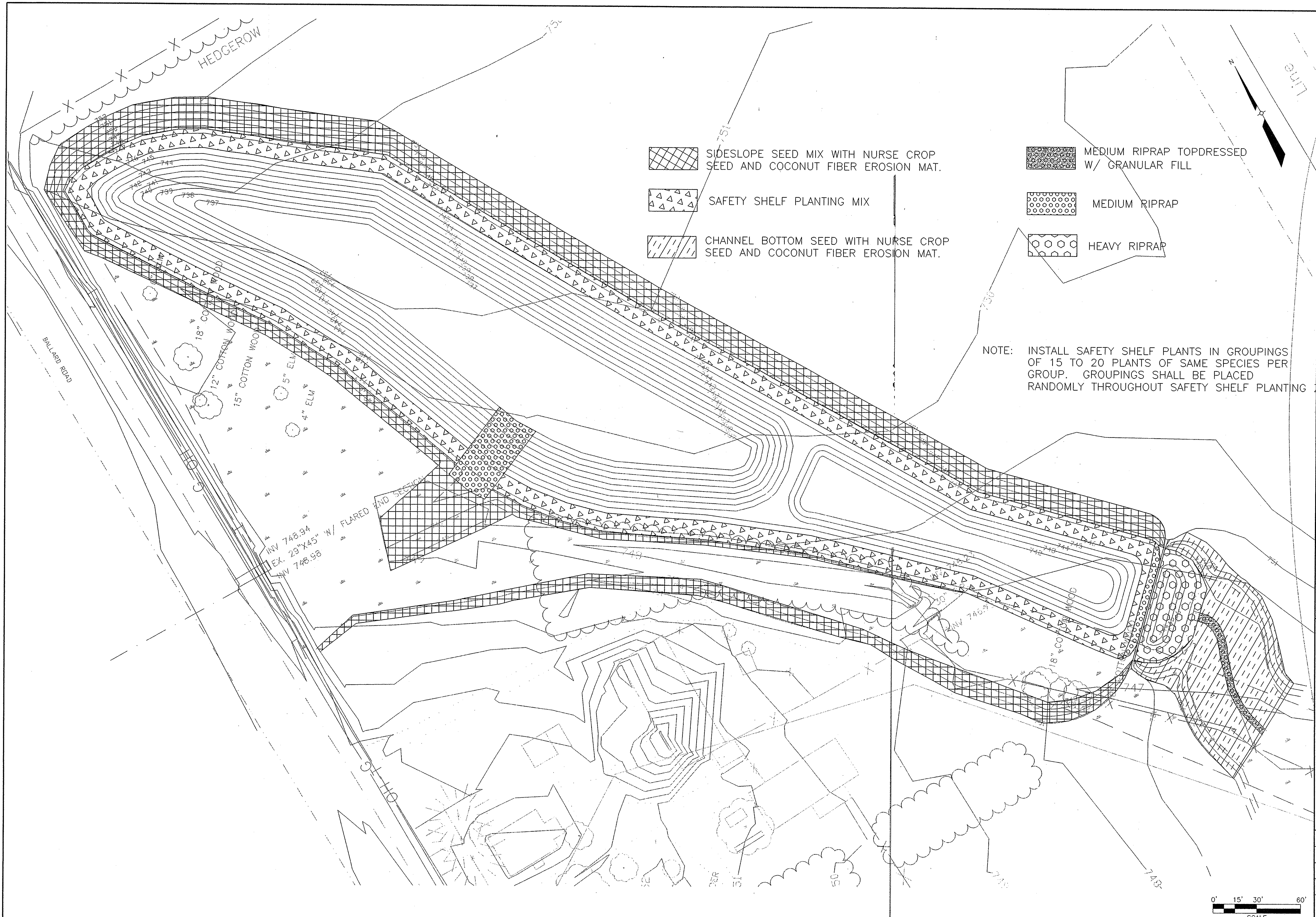
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DES RJL	MARCH 2001	NO	DATE
CHK	MJD	NO	DATE
APP	MJD	NO	DATE
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THIS DESIGN PREPARED FOR MARTENSON & EISELE BY		NO	DATE
EARTH TECH		NO	DATE
A tyco INTERNATIONAL LTD. COMPANY		NO	DATE
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POND SITE GRADING PLAN		NO	DATE
DATE	4-16-2001	NO	DATE
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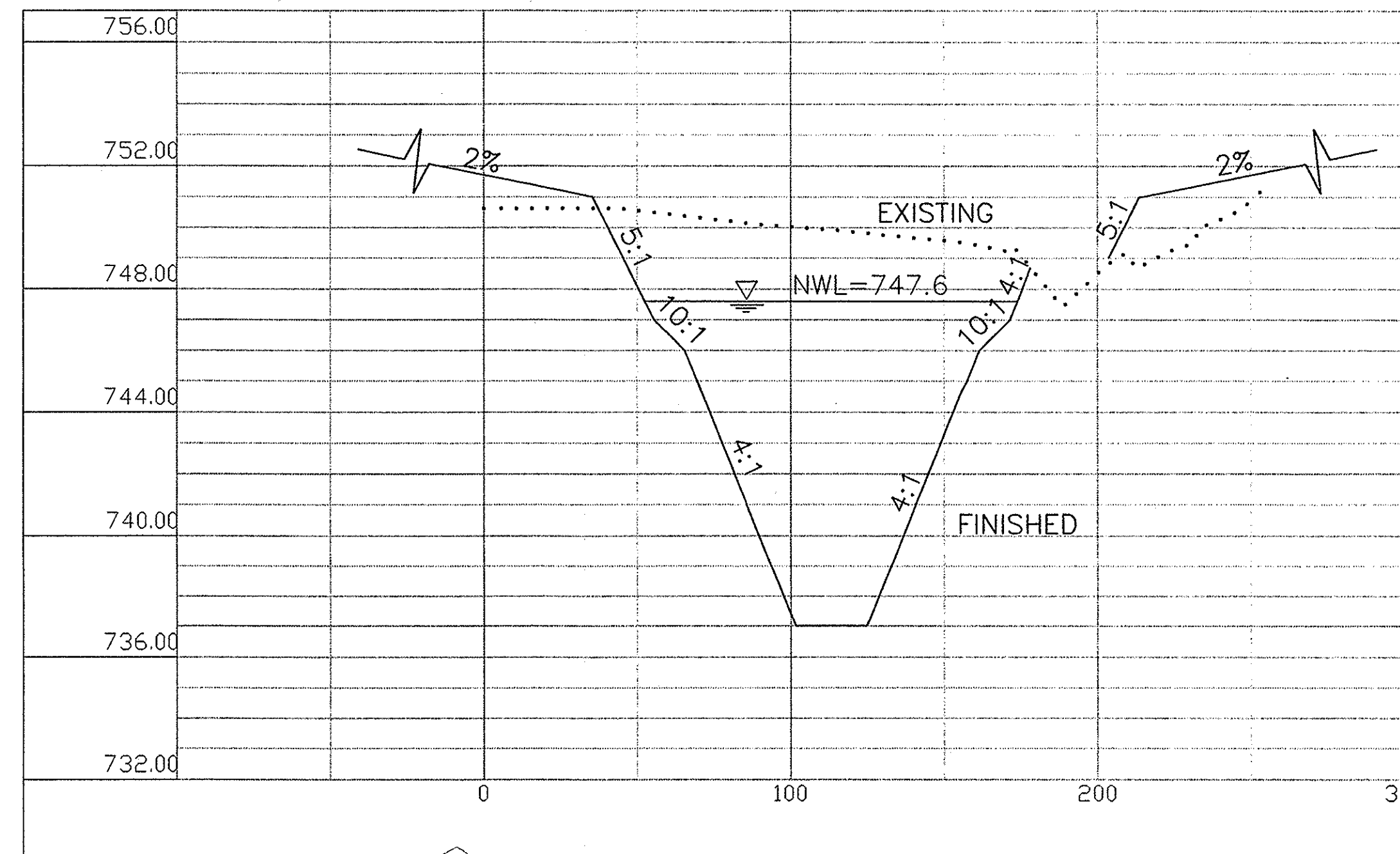


- SIDESLOPE SEED MIX WITH NURSE CROP SEED AND COCONUT FIBER EROSION MAT.
- SAFETY SHELF PLANTING MIX
- CHANNEL BOTTOM SEED WITH NURSE CROP SEED AND COCONUT FIBER EROSION MAT.

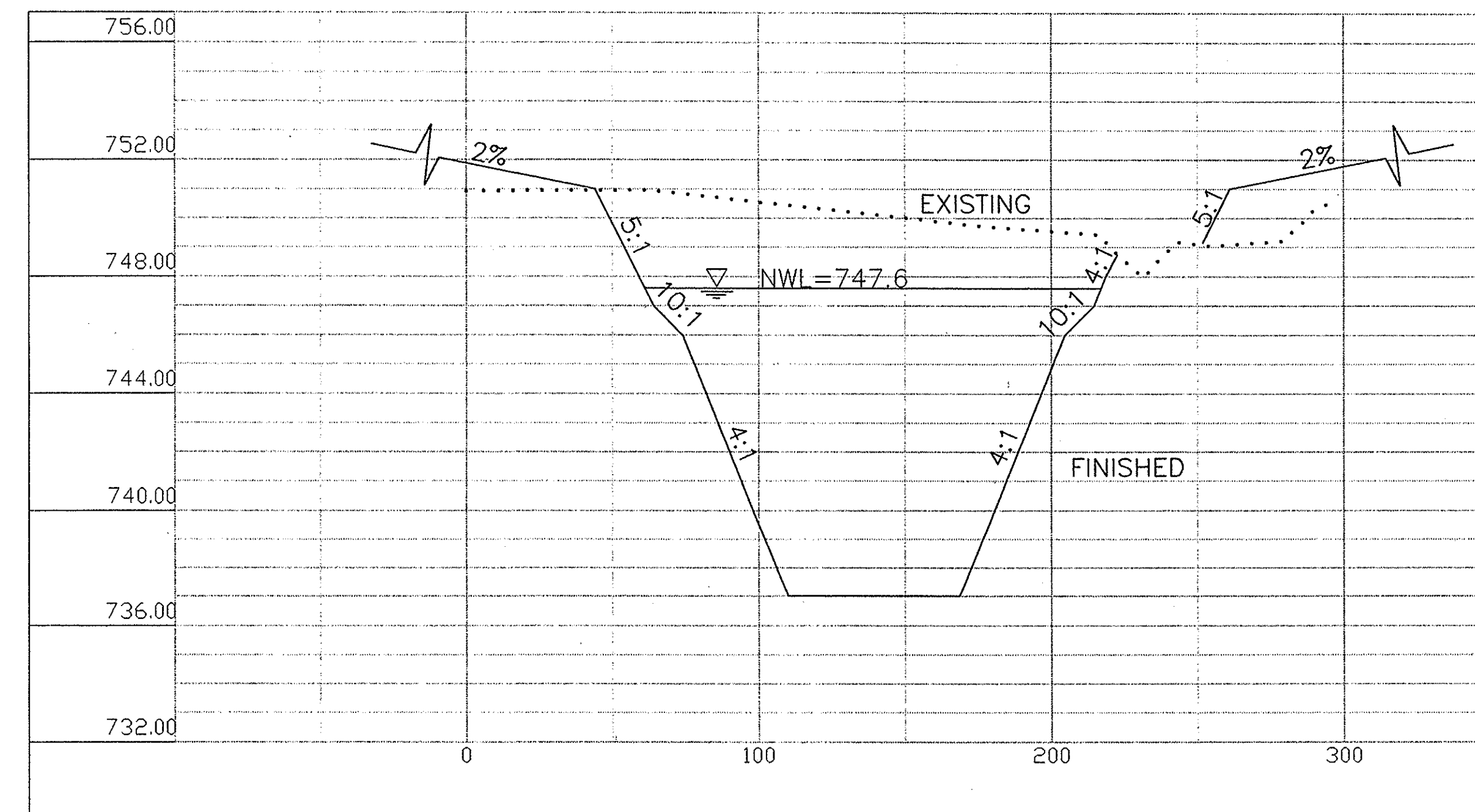
- MEDIUM RIPRAP TOPDRESSED W/ GRANULAR FILL
- MEDIUM RIPRAP
- HEAVY RIPRAP

NOTE: INSTALL SAFETY SHELF PLANTS IN GROUPINGS OF 15 TO 20 PLANTS OF SAME SPECIES PER GROUP. GROUPINGS SHALL BE PLACED RANDOMLY THROUGHOUT SAFETY SHELF PLANTING

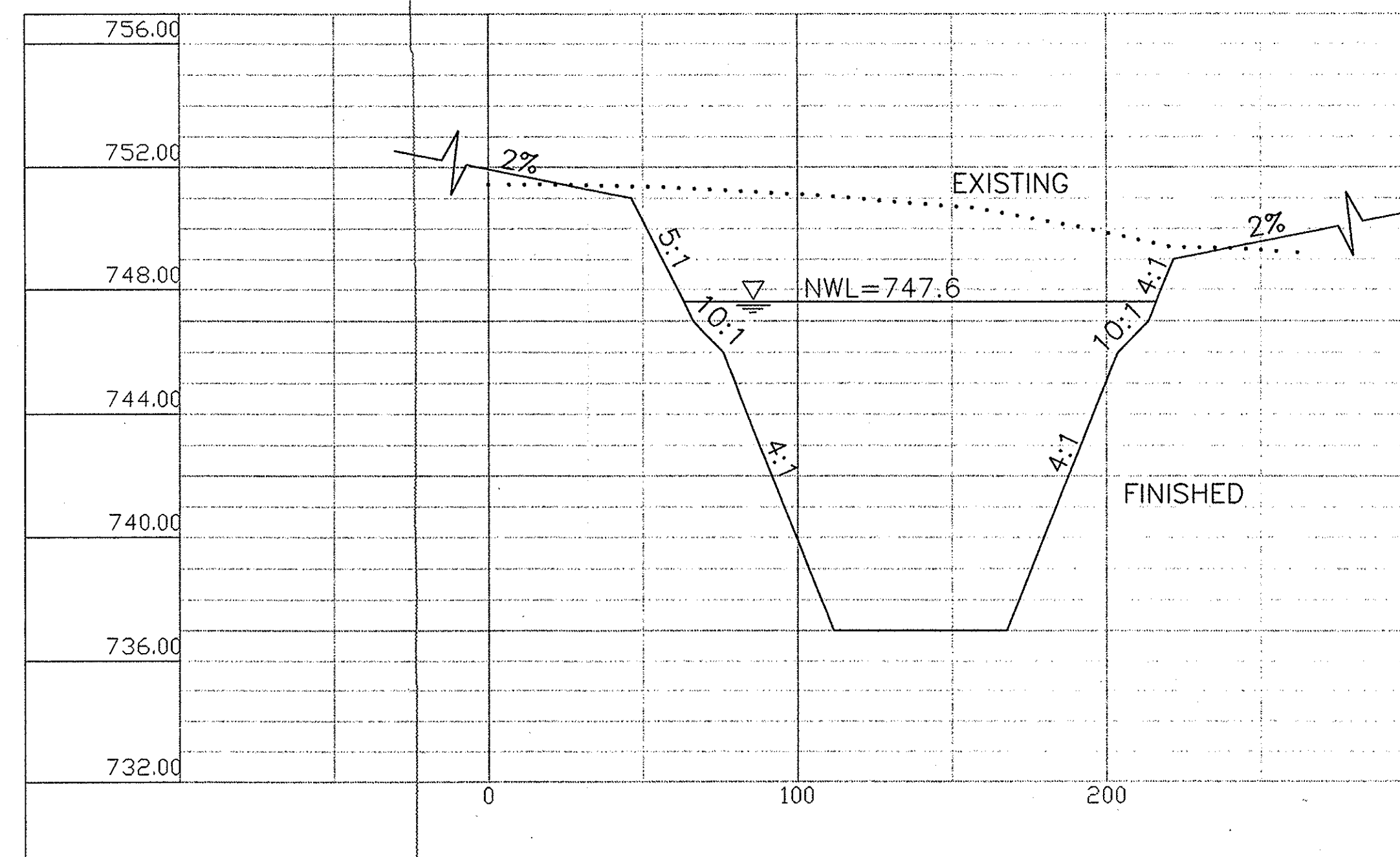
EARTHTECH	THIS DESIGN PREPARED FOR MARTENSON & EISELE BY 								
AAL BUSINESS PARK APPLETON, WI POND SITE LANDSCAPING PLAN	MILWAUKEE, WI 1020 NORTH BROADWAY 44-225-3100 DRN INLG MARCH 2001 DES RJK MARCH 2001 CHK MID APP MID <small>Copyright © Earth Tech All Rights Reserved.</small>								
DATE 04-16-2001 PROJECT NO 44167 FILENAME LAND01.DWG SHEET NO 10 DRAWING NO 605-000-10	REVISIONS <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">NO</th> <th style="width: 60%; text-align: center;">REVISIONS</th> <th style="width: 10%; text-align: center;">DRN/CHK</th> <th style="width: 20%; text-align: center;">DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO	REVISIONS	DRN/CHK	DATE				
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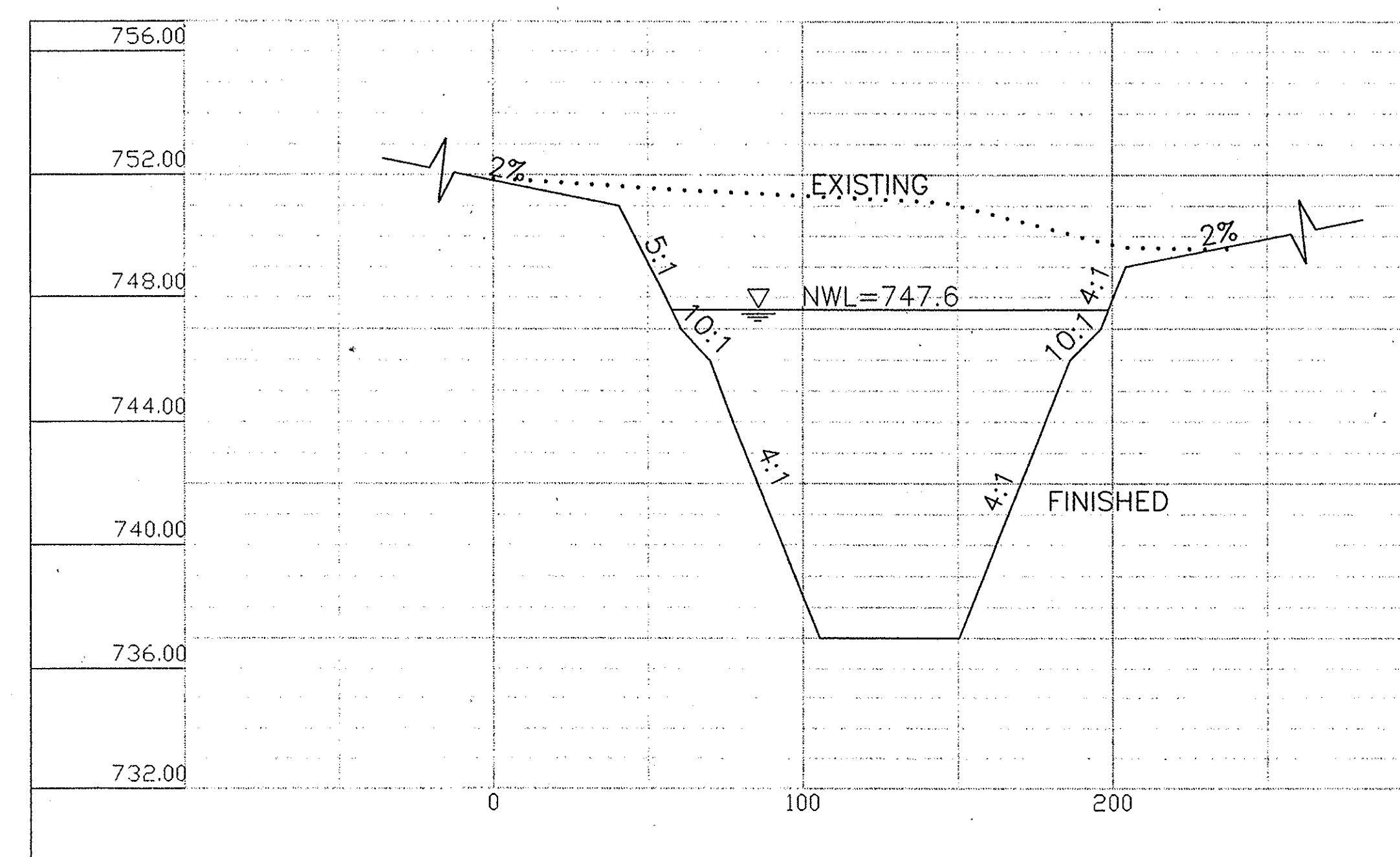
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

NOTE:
NWL = NORMAL WATER LEVEL

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MILWAUKEE, WI
10200 N. WISCONSIN
41167-225
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DRN	ILG	APRIL 2001
DES	RJK	APRIL 2001
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APP	MJD	

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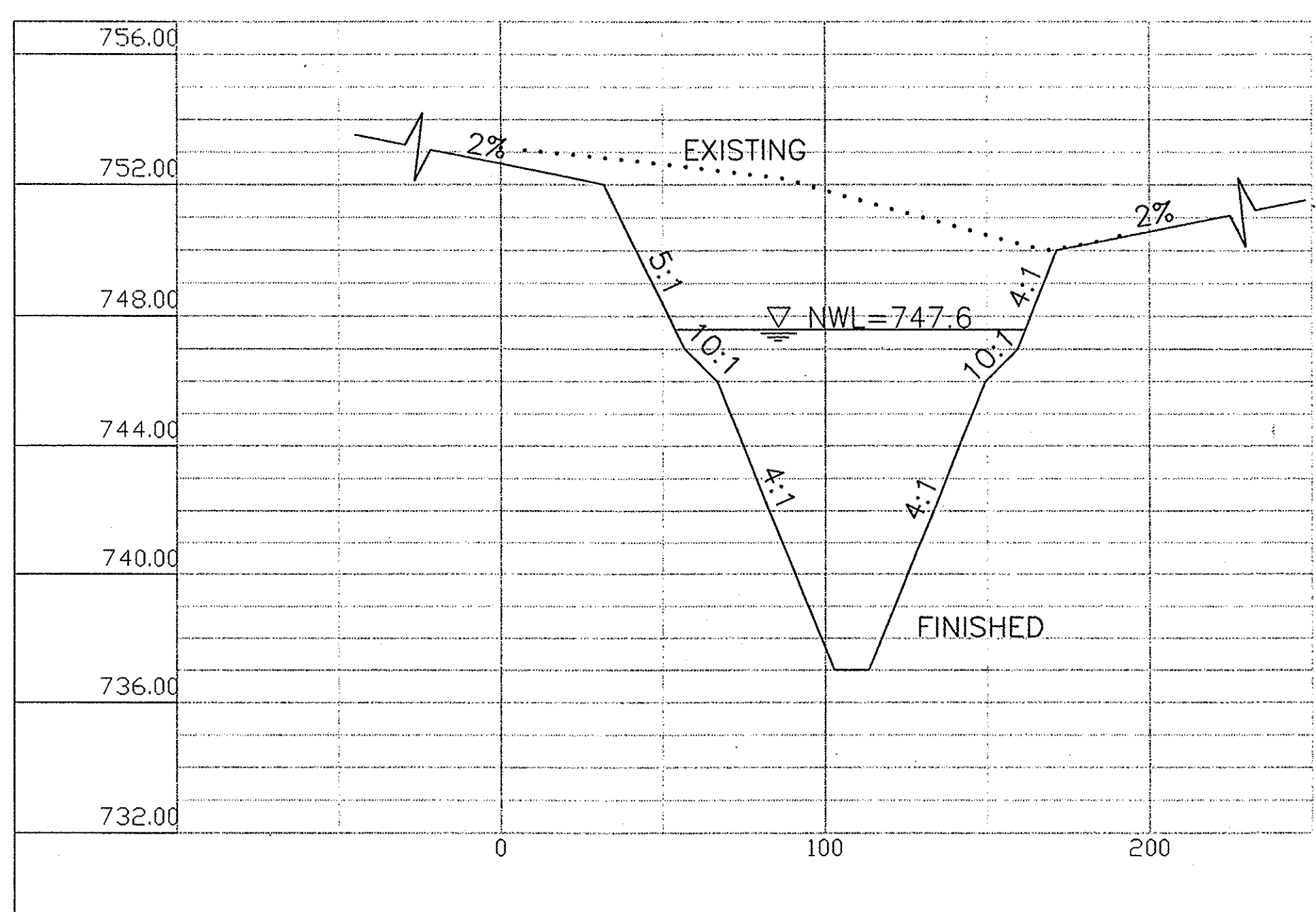
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AAL BUSINESS PARK
APPLETON, WI

**POND SITE
CROSS SECTIONS**

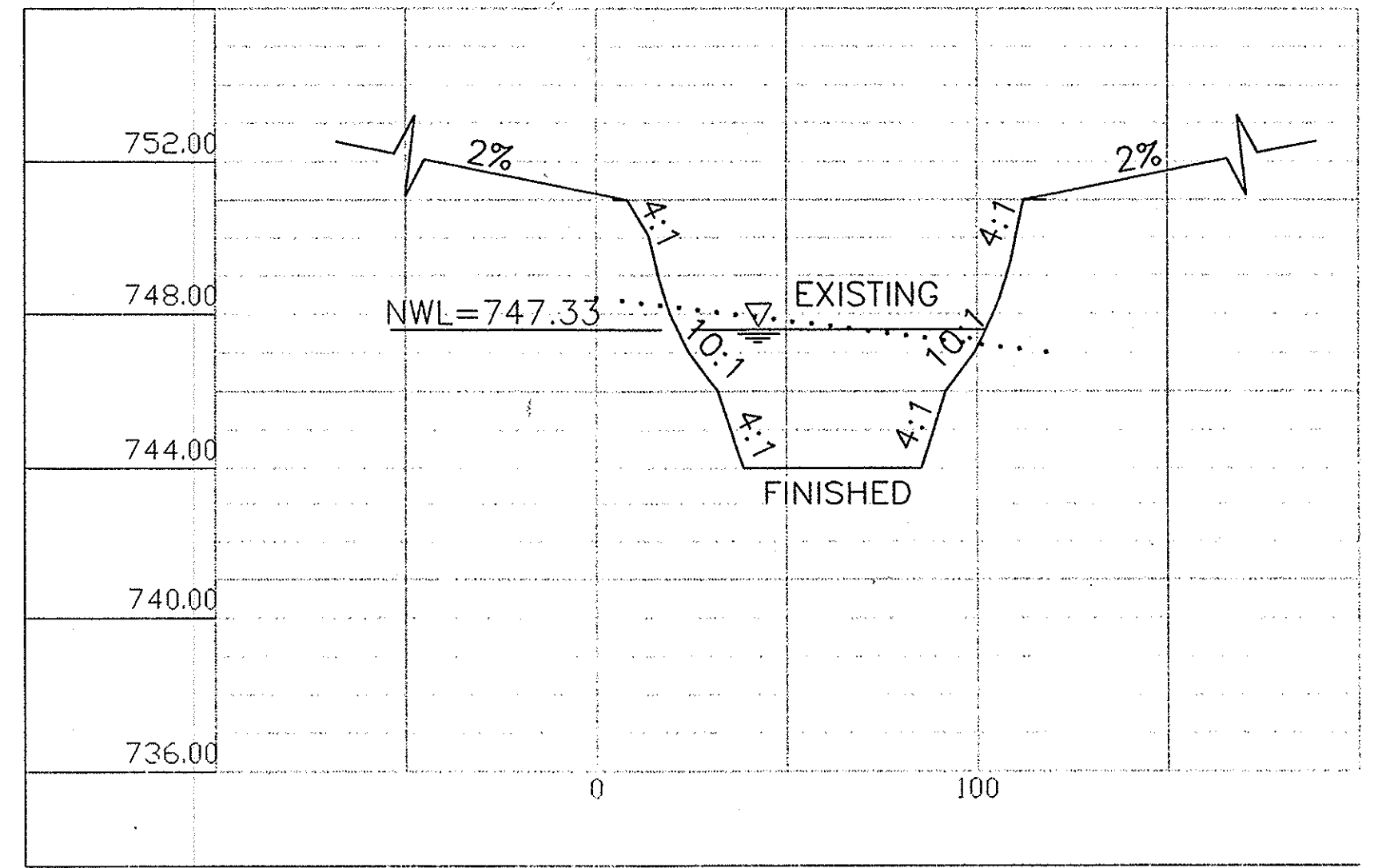
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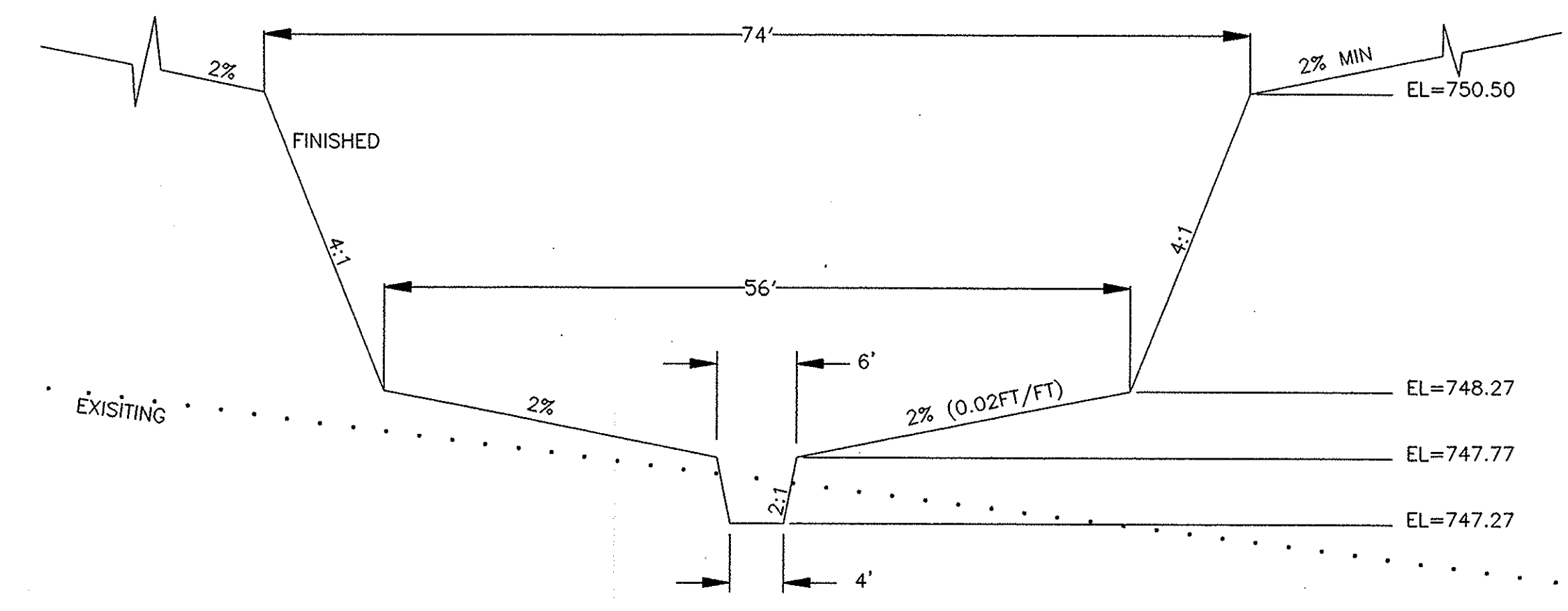
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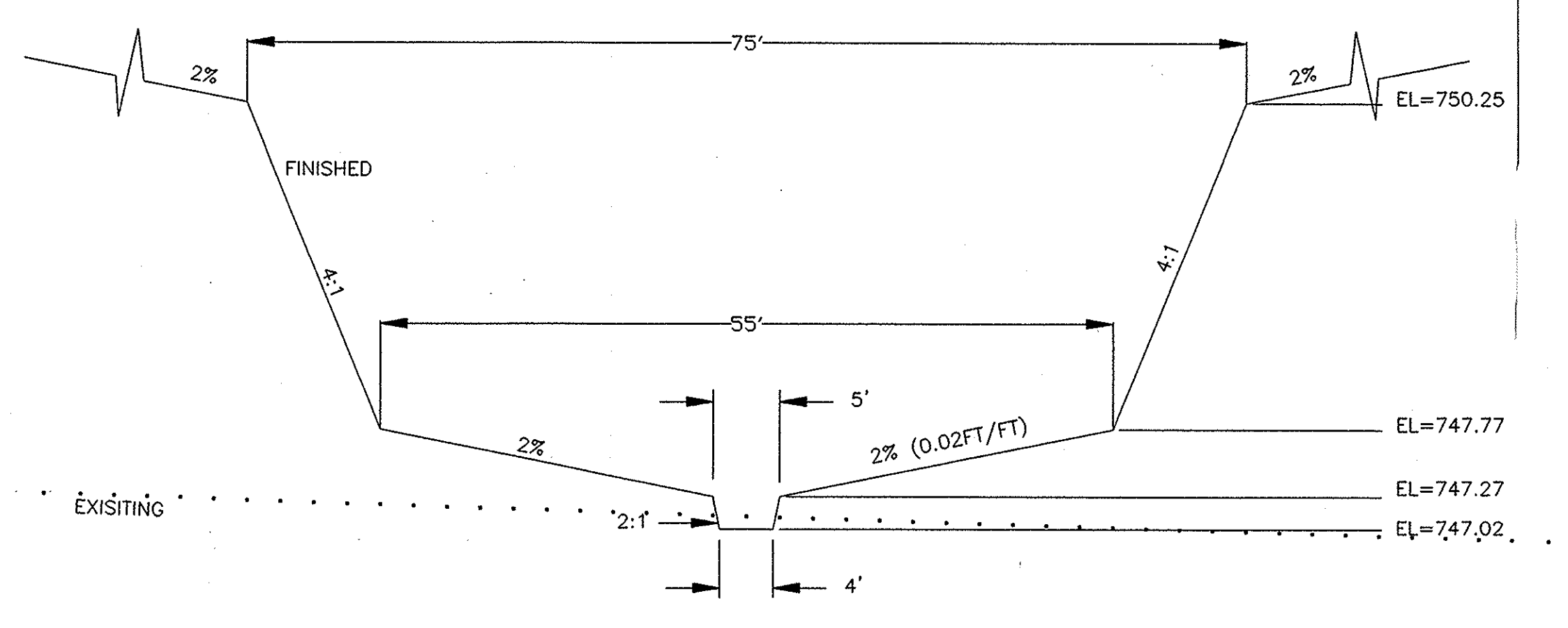
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CHK MJD				
APP MJD				
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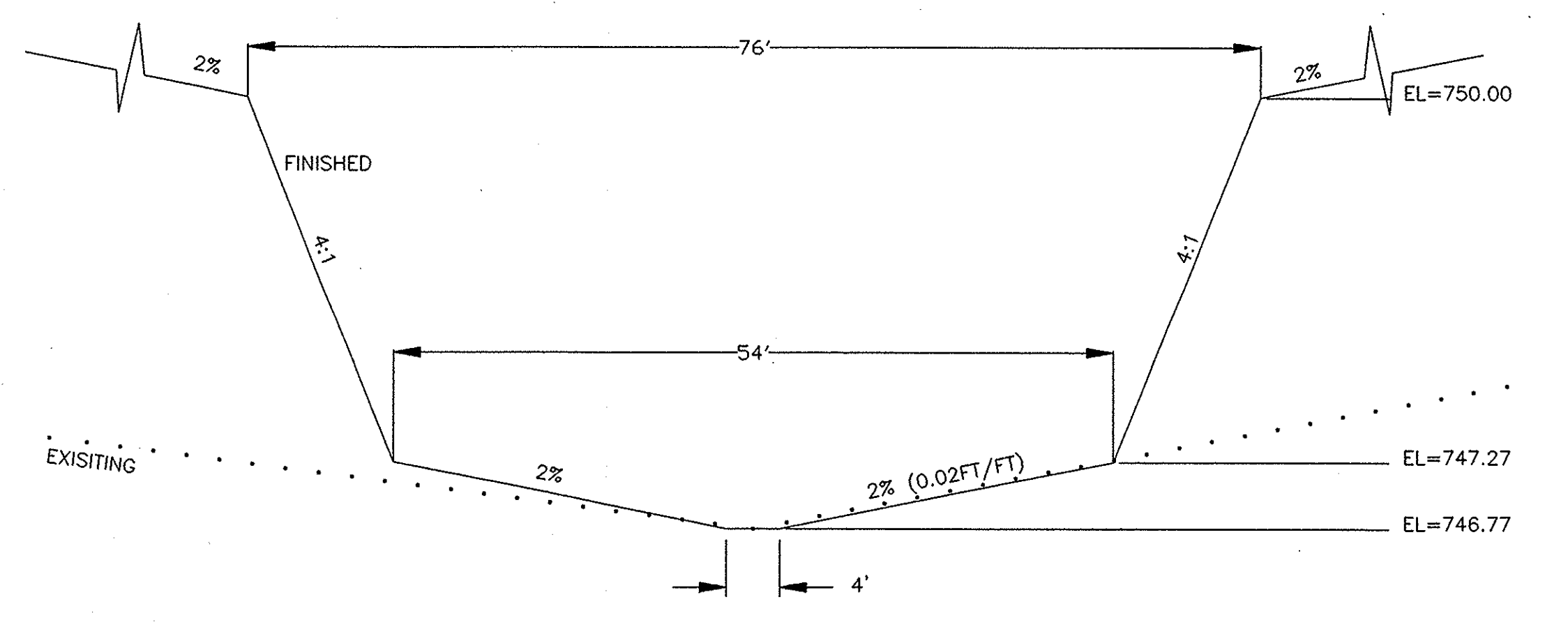
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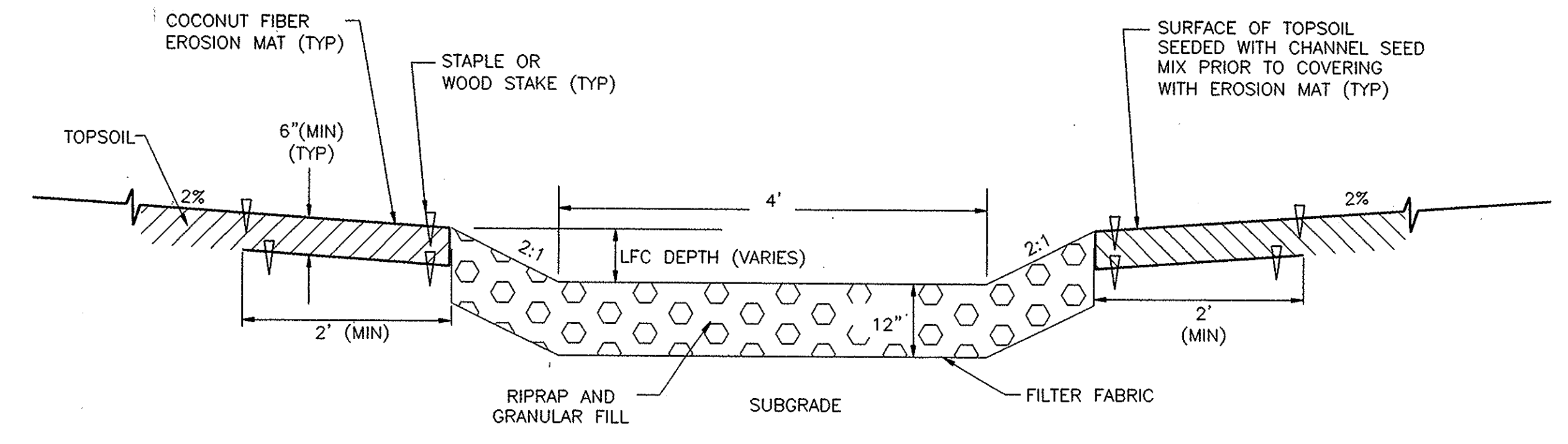
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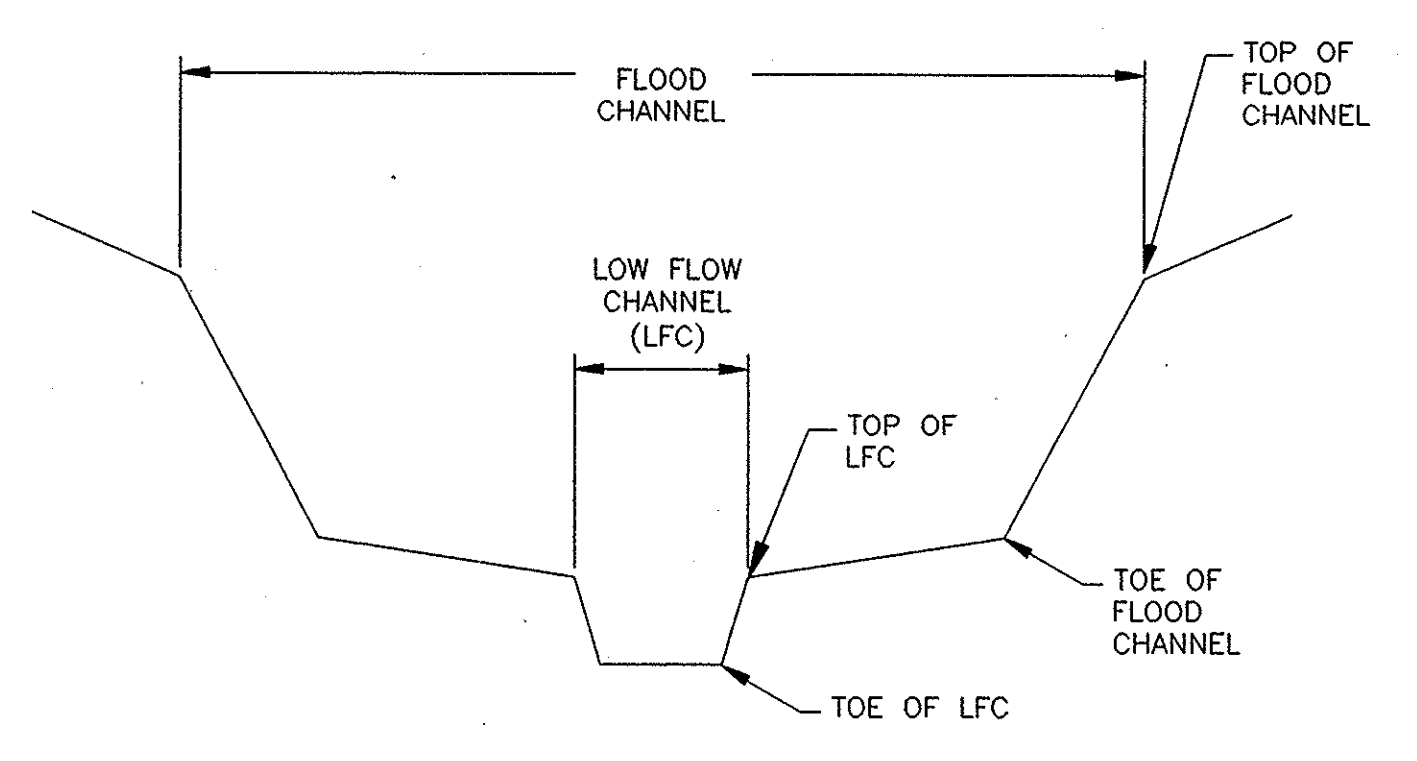
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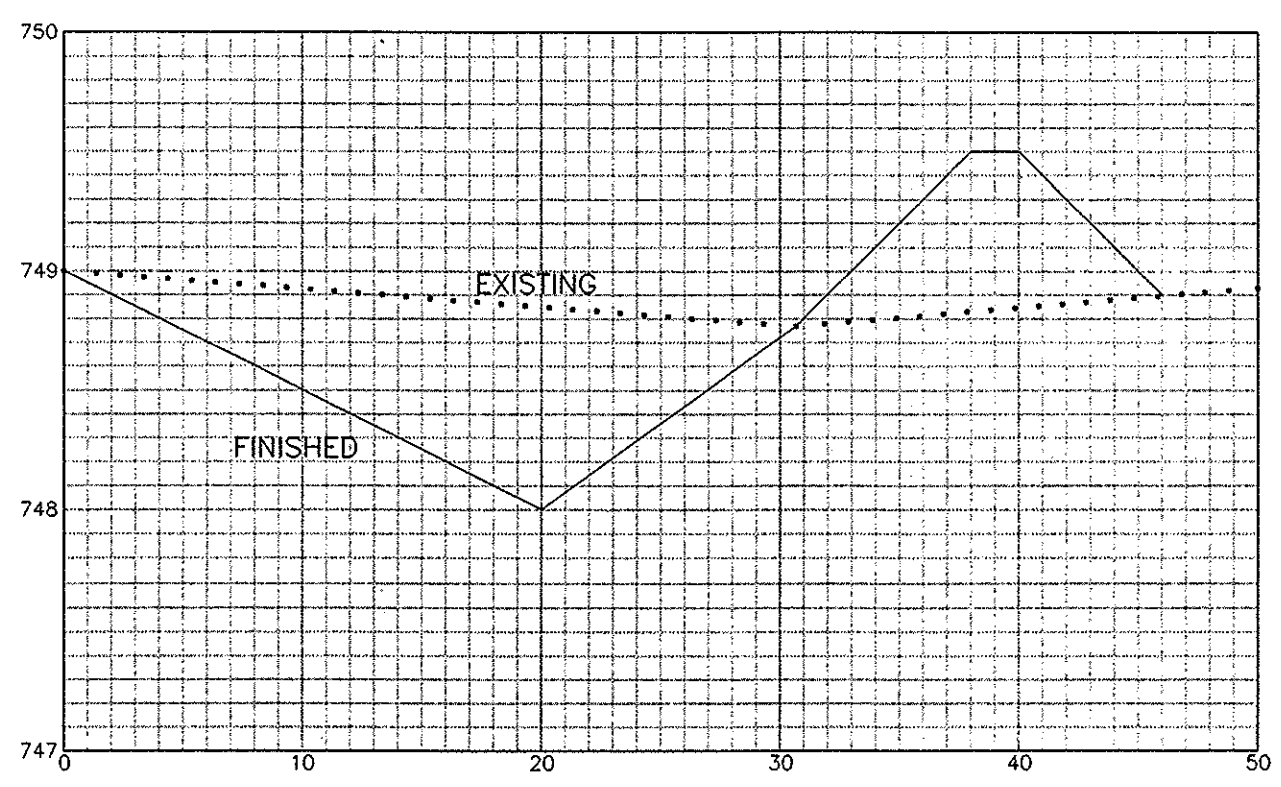
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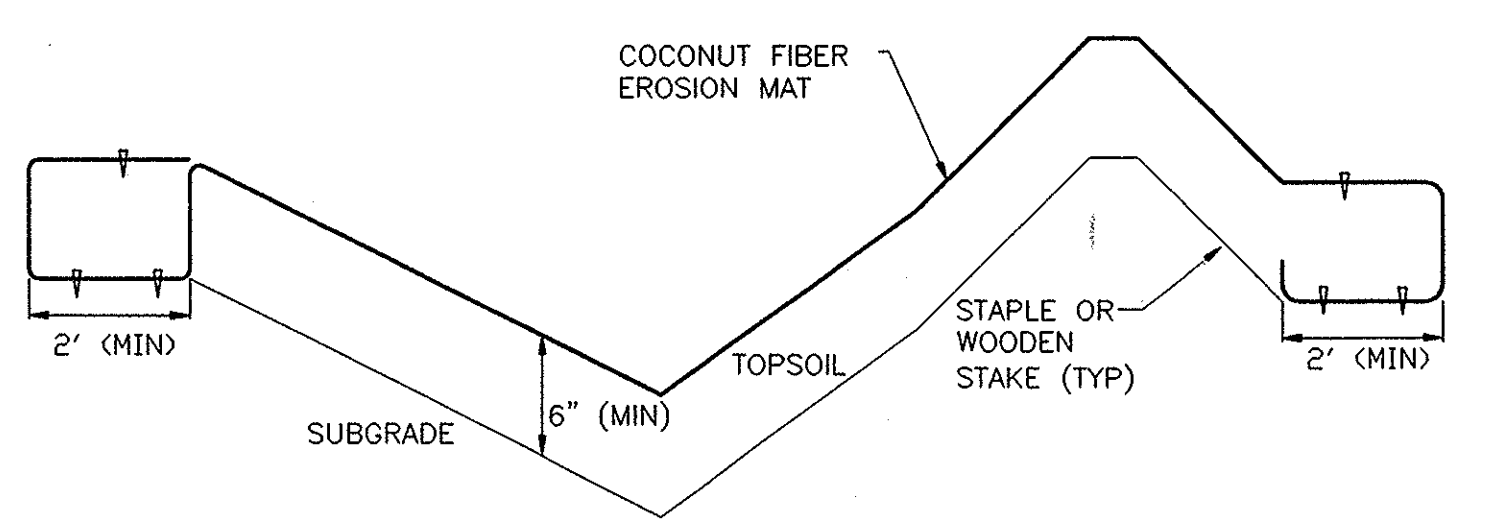
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THIS DESIGN PREPARED FOR MARTENSON & EISELE BY EARTHTECH 				
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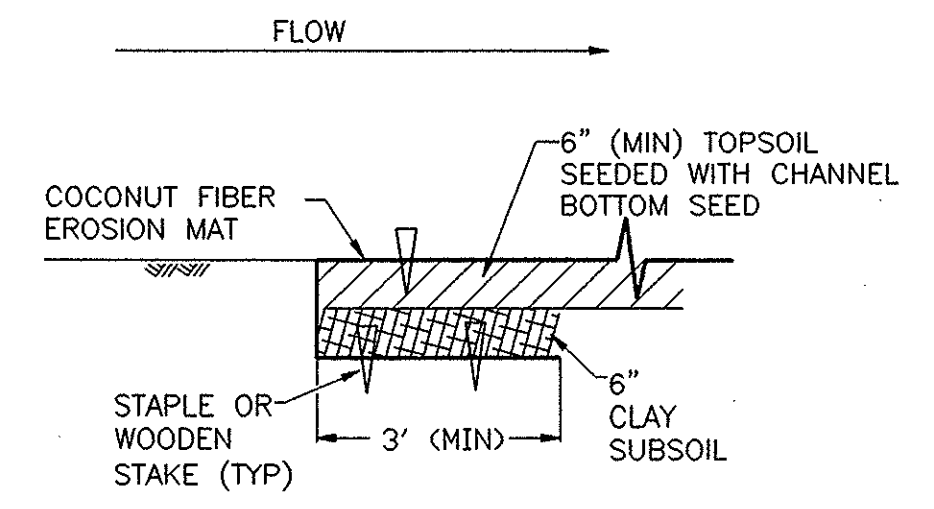
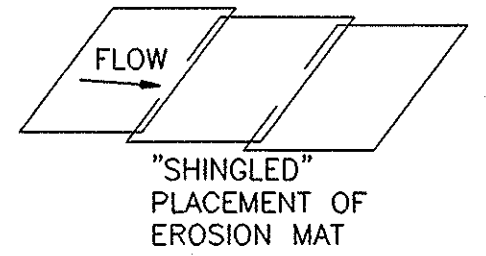


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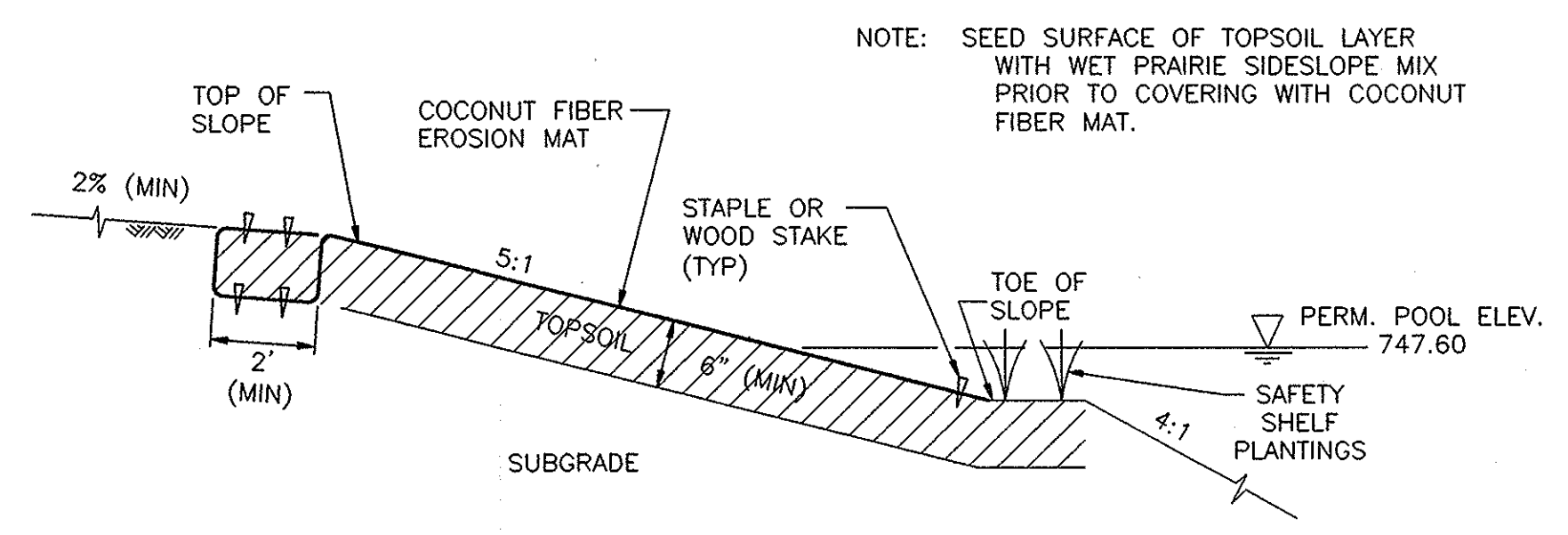


INLET SWALE CROSS SECTION N-N DETAIL
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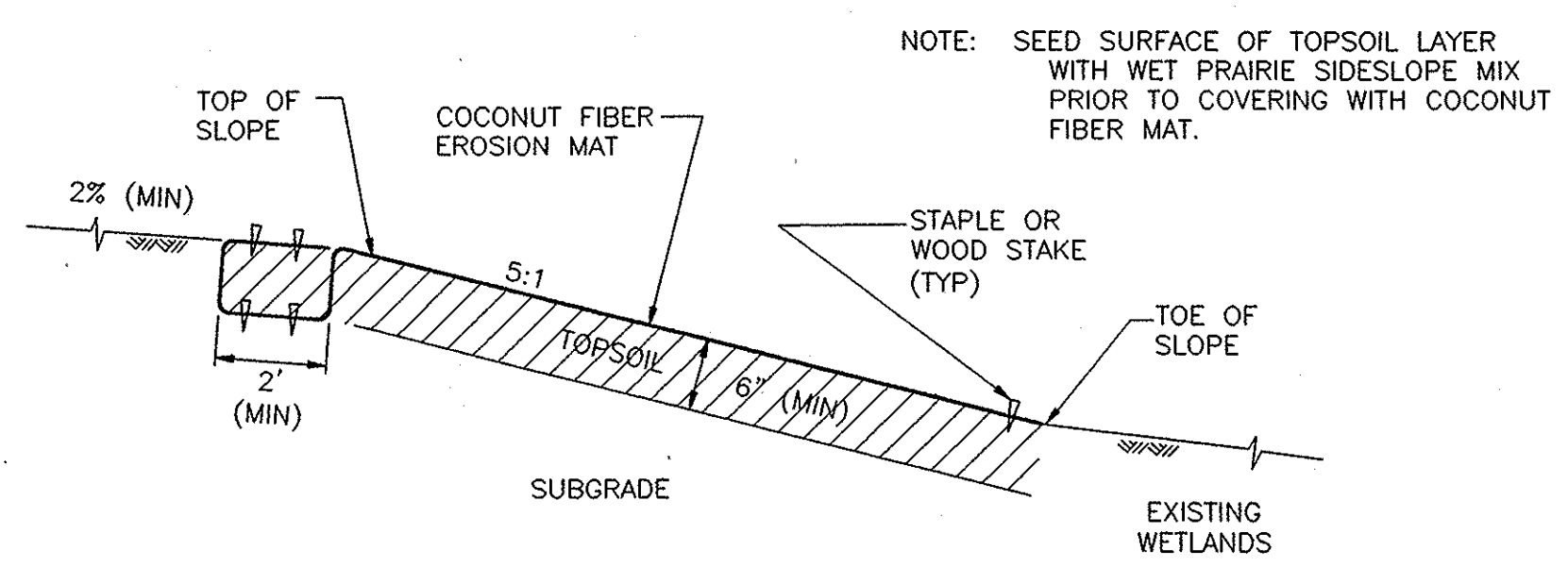
- NOTE:
 1) SEED SURFACE OF TOPSOIL LAYER WITH SIDESLOPE MIX PRIOR TO COVERING WITH COCONUT FIBER MAT.
 2) COCONUT FIBER EROSION MAT SHALL BE LAID SO AS TO "SHINGLE" THE OVERLAPPING PORTIONS, SUCH THAT THE LEADING EDGE OF A PANEL IS NOT EXPOSED DIRECTLY TO WATER FLOW.



UPSTREAM END OF INLET SWALE CROSS SECTION 0-0
NTS

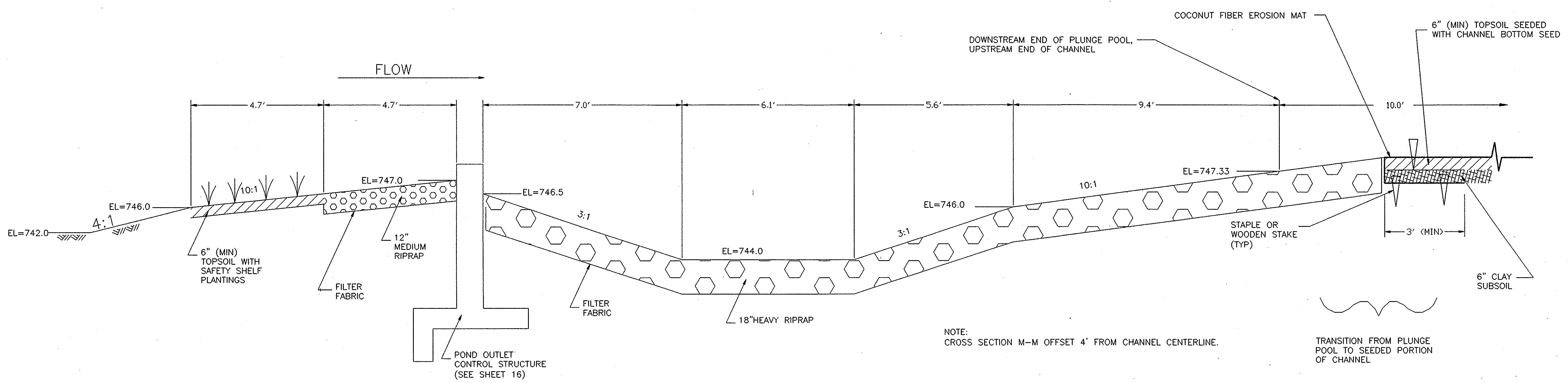


SIDESLOPE ADJACENT TO PERMANENT POOL



SIDESLOPE ADJACENT TO EXISTING WETLANDS

TYPICAL SIDESLOPE EROSION PROTECTION DETAIL
NTS



POND OUTLET CROSS SECTION M-M
NTS

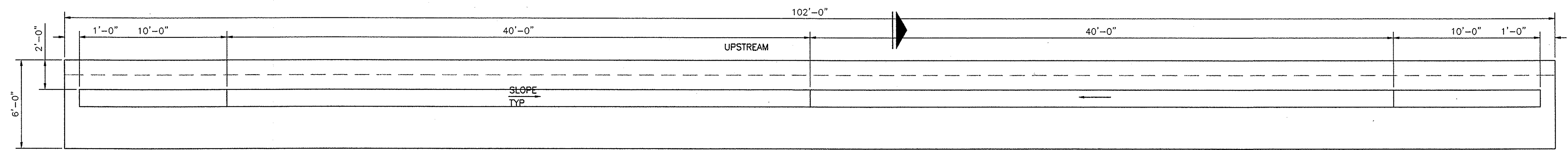
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REVISIONS	
NO	
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DRN NLC	04-11-01
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APP MJD	
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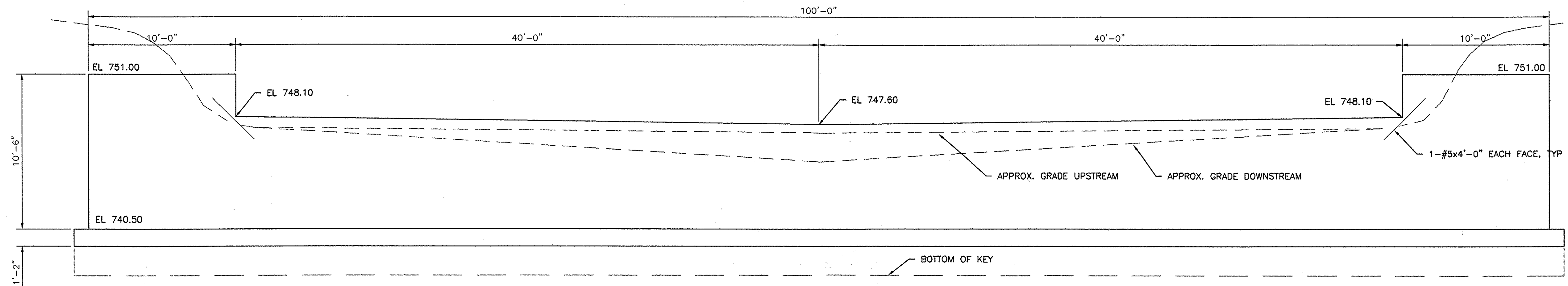
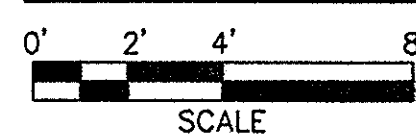
AAL BUSINESS PARK
 APPLETON, WI
**POND SITE
 CROSS SECTIONS AND DETAILS**

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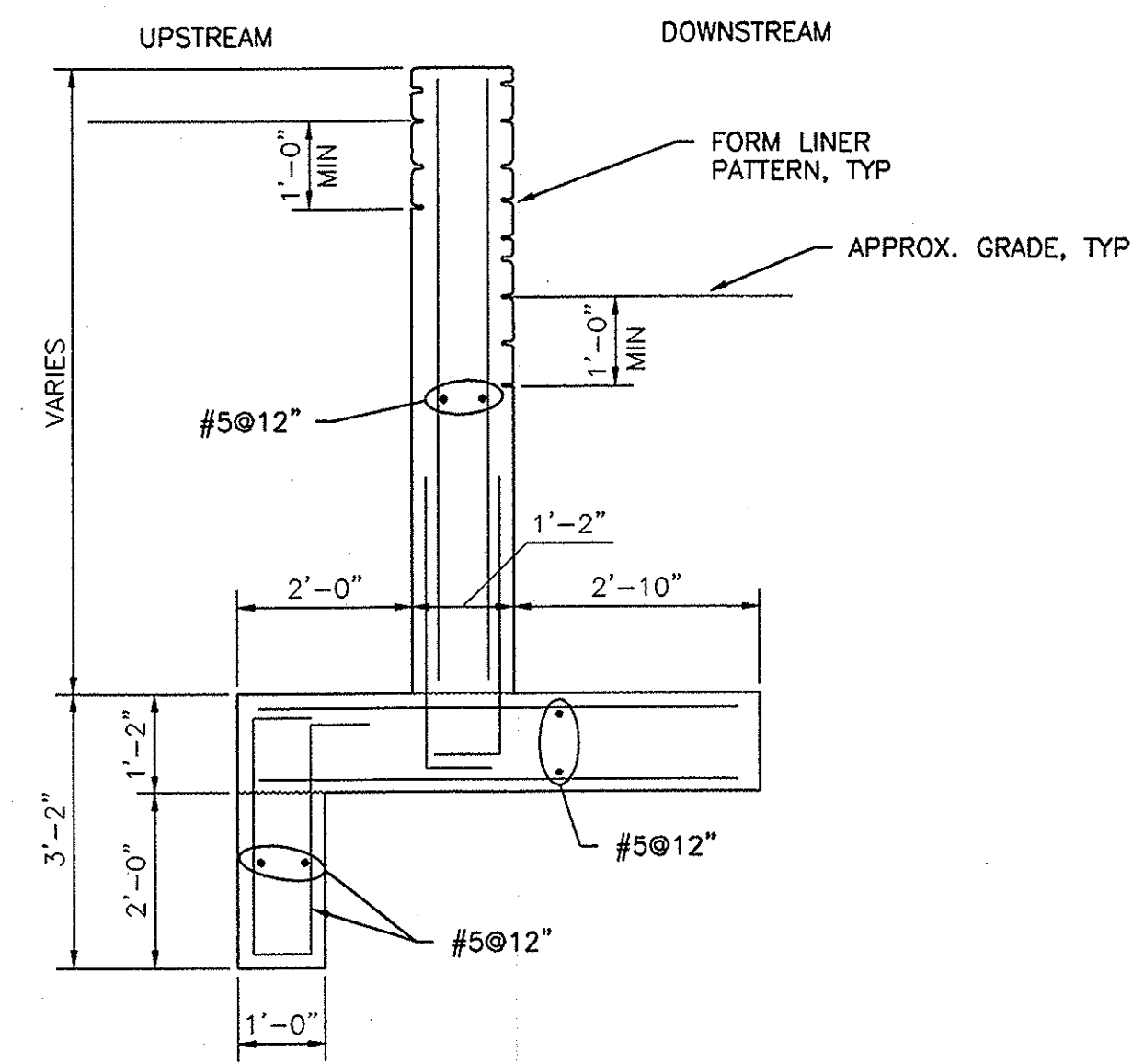
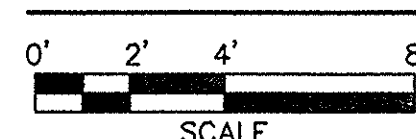
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PLAN

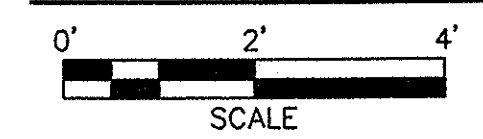


ELEVATION



NOTE: REINF SHOWN #6@12" UNLESS NOTED OTHERWISE.

SECTION A



GENERAL STRUCTURAL NOTES

- DESIGN CRITERIA**
- DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE WISCONSIN ADMINISTRATIVE CODE, SECTION ILHR, 53
- FOUNDATIONS**
- NET SOIL BEARING CAPACITIES: 2000 PSF (ASSUMED)
 - PLACE FOOTINGS ON NATURAL UNDISTURBED EARTH OR STRUCTURAL FILL.
 - PLACE FILL SIMULTANEOUSLY ON BOTH SIDES OF FREE-STANDING STRUCTURES.
 - TO MINIMIZE LATERAL FORCES AGAINST THE STRUCTURE DUE TO WEDGING ACTION OF THE SOIL, BEGIN COMPACTION OF EACH LAYER AT THE STRUCTURE WALL.
- CONCRETE**
- REINFORCING STEEL: DEFORMED BARS ASTM A615-GRADE 60
 - UNLESS OTHERWISE NOTED, PROVIDE COVER FOR REINFORCEMENT AS FOLLOWS:
 - A. CAST AGAINST
 - 1. EARTH 3 INCHES
 - 2. MUD SLAB 2 INCHES
 - B. EXPOSED TO EARTH, WEATHER OR WATER:
 - 1. SLABS:
 - A. #5 BARS AND SMALLER 1 1/2 INCHES
 - B. #6 THRU #11 BARS 2 INCHES
 - 2. WALLS: 2 INCHES
 - PLACE DOWELS BEFORE PLACING CONCRETE.
 - DO NOT WELD OR FIELD BEND REINFORCING BARS.
 - CONCRETE: ALL LOCATIONS: CLASS A $F'_c=4000$ PSI
 - UNLESS OTHERWISE NOTED, CONSTRUCTION JOINTS SHOWN ARE OPTIONAL. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY ENGINEER.
 - LIMIT SIZE OF CONCRETE POURS. MAXIMUM LENGTH OF WALL AND SLAB POURS SHALL NOT EXCEED 60 FT.
 - BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE CLEANED AND LANTANCE REMOVED AND SURFACE WETTED. STANDING WATER SHALL BE REMOVED.
 - CONSTRUCTION JOINTS SHALL HAVE KEYS OR ROUGHENED SURFACES. WHERE ROUGHENED SURFACE IS USED, THE SURFACE SHALL HAVE AN AMPLITUDE OF 1/4" MIN.
 - CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

MINIMUM REINFORCEMENT BAR SPLICE AND ANCHORAGE LENGTH (INCHES)

BAR SIZE IN-POUND	BAR SIZE METRIC mm	LAPPED SPLICE LENGTH		EMBEDMENT LENGTH		COMPRESSION LAP LENGTH
		TOP BARS	OTHERS	TOP BARS	OTHERS	
3	10	21	16	16	12	12
4	13	21	16	16	12	15
5	16	24	19	19	15	19
6	19	29	23	23	18	23
7	22	43	33	33	25	26
8	25	49	37	37	29	30
9	29	60	46	46	36	34
10	32	72	56	56	43	38
11	36	85	66	66	51	42

- NOTES:**
- TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
 - FOR BARS SPACED LESS THAN 6 BAR DIAMETERS O.C. INCREASE LENGTH BY 25%.
 - WHEN LAPPING TWO DIFFERENT SIZE BARS USE THE LAP LENGTH OF THE SMALLER BAR UNLESS NOTED OTHERWISE.
 - EMBEDMENT LENGTH IS MINIMUM LENGTH OF EMBEDMENT FOR STRAIGHT DOWELS WHERE END HOOK IS NOT SHOWN, UNLESS OTHERWISE NOTED.
 - COMPRESSION LAP LENGTH FOR VERTICAL COLUMN BARS ONLY.
 - HOOKS SHALL BE ACI STANDARD UNLESS OTHERWISE NOTED.

THIS DESIGN PREPARED FOR MARTENSON & EISELE BY

EARTHTECH

AAL BUSINESS PARK
APPLETON, WI

OUTLET WEIR PLAN, ELEVATION SECTION, NOTES & DETAILS

DRN	CLS	APRIL 2001	NO	DRN	CHK	DATE
DES	CLS	APRIL 2001				
CHK	WHM	APRIL 2001				
APP						

DATE: APRIL 2001

PROJECT NO: 44167

FILE: Outlet Weir.dwg

SHEET NO: 16

DRAWING NO: 605-000-16