

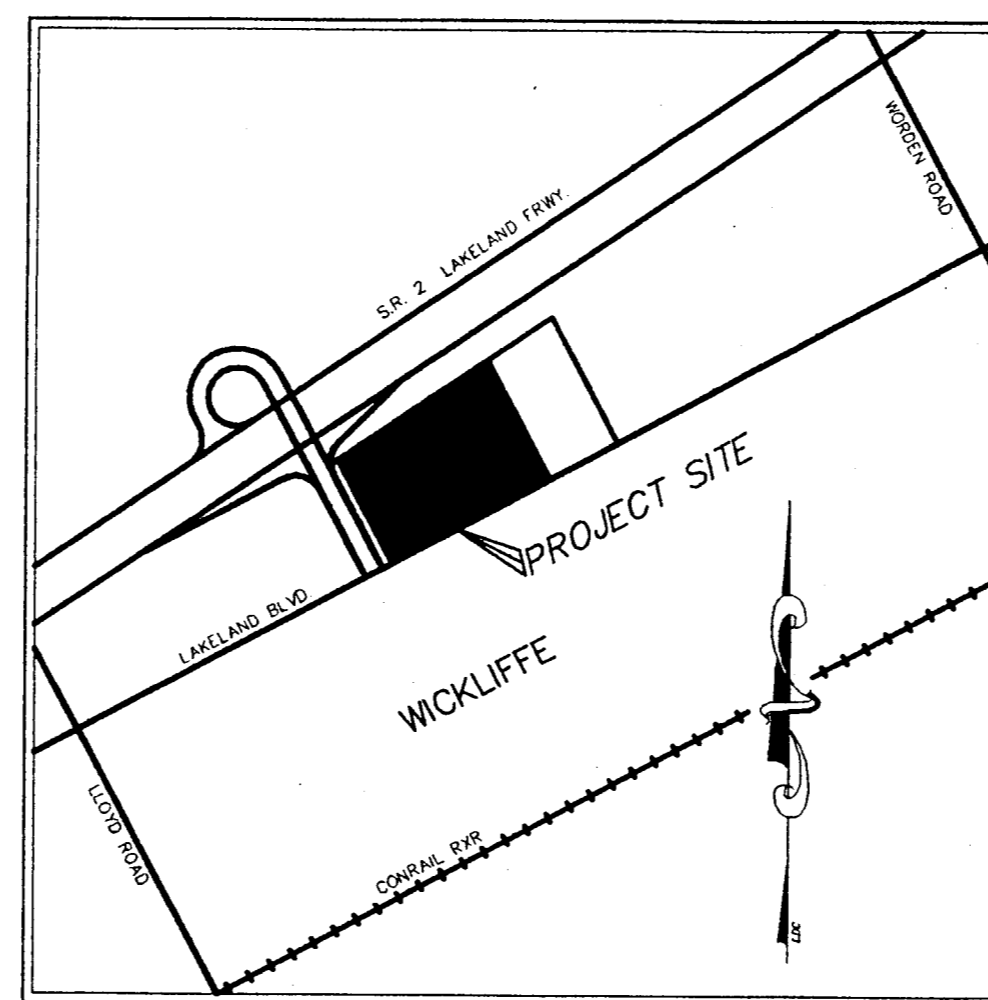
IMPROVEMENT PLANS FOR LAKETRAN PARK AND RIDE PHASE 2

CITY OF WICKLIFFE — LAKE COUNTY — OHIO

LAND DESIGN consultants
Civil Engineers and Surveyors
8585 EAST AVENUE • MENTOR, OHIO 44060
TELEPHONE 440-255-8463 440-354-6938 216-951-LAND 440-255-9575(FAX)
1471 LEAR INDUSTRIAL PARK • AVON, OHIO 44011
TELEPHONE 440-937-5601 440-937-5603(FAX)

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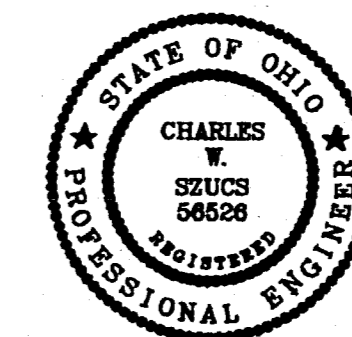


VICINITY MAP

LAKETRAN BOARD MEMBERS

DONALD FITZGERALD, PRESIDENT
HARRY G. WATERMAN, VICE PRESIDENT
FRANK J. POLIVKA, SEC./TRES.
ROBERT T. CLARK
PATRICIA A. MACKAY
RAYMOND K. SMITH
DONNA McNAMEE
WADE A. MITCHELL
DAVID J. REED, JR.
JULIE A. CUNNINGHAM

FRANK J. POLIVKA, GENERAL MANAGER
555 LAKESHORE BOULEVARD
PAINESVILLE, OH. 44077
PH: 440.350.1000 FAX: 440.354.4202

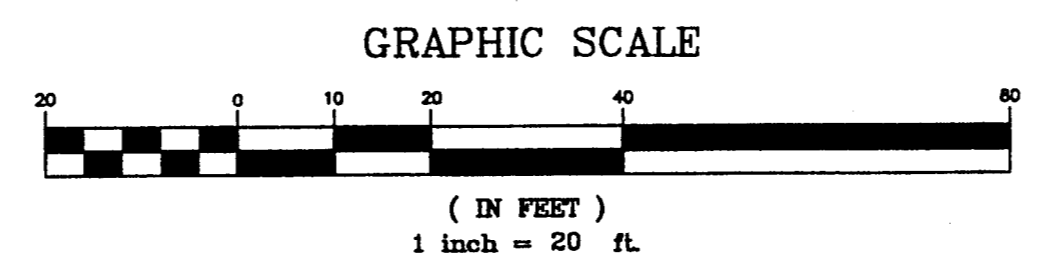


CHARLES W. SZUCS P.E. No. 56526

EXISTING UNDERGROUND UTILITIES NOTE:
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LEGEND

- Iron Pin Found
- Iron Pipe Found
- Iron Pin Set
- Monument Box Found
- ▲ PK Set
- △ PK Found
- Clean Out
- Catch Basin
- Curb Inlet
- House Drain
- Yard Drain
- Manhole
- Water Shut Off Valve
- Water Valve
- Water Meter
- Fire Hydrant
- Well
- Gas Shut Off Valve
- Gas Valve
- GT Gas Test
- Gas Meter
- Mailbox
- Guard Post
- Guide Wire
- Power Pole
- Light Power Pole
- Light Pole
- Traffic Signal Pole
- Traffic Signal Box
- Electrical Box
- PED Telephone (SAC) Box
- Tree
- Pine Tree
- Bush

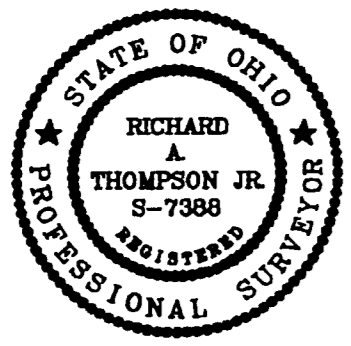


East Bound On Ramp

STATE ROUTE 2

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 6", 1', OR 2' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE 12th DAY OF October 2000 AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY EXISTED AS INDICATED HEREON.

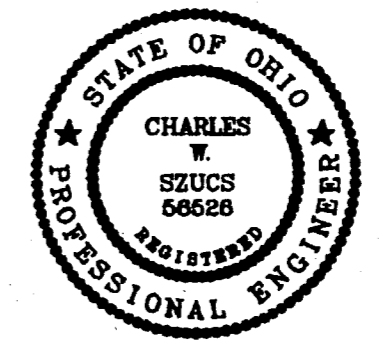
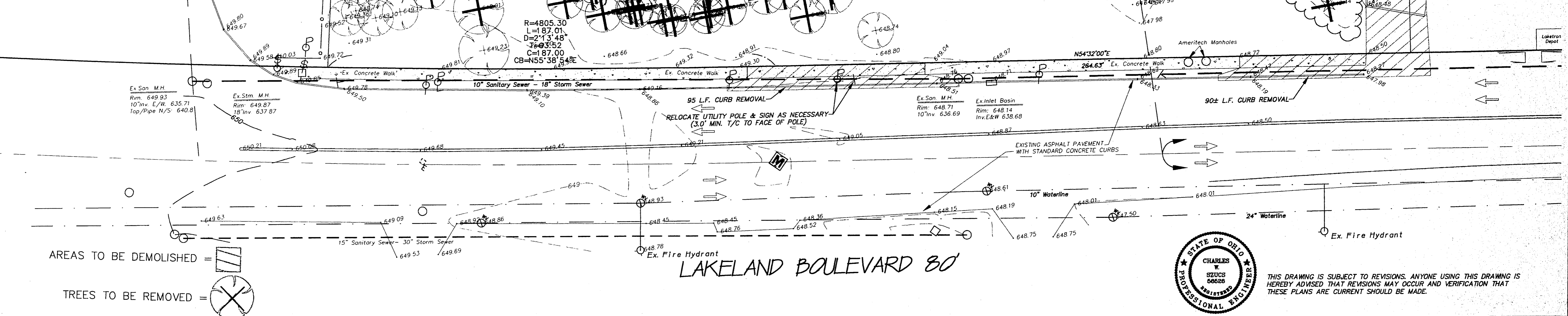
RICHARD A. THOMPSON JR. P.S. #7388



- NOTES:
- 1.) ALL PAVEMENT REMOVAL (CROSS-HATCHED AREAS) SHALL BE REMOVED AS SHOWN.
 - 2.) 3/4" DOWELS ON 30" CENTERS SHALL BE INSTALLED AT ALL OLD AND NEW PAVEMENT JOINTS.
 - 3.) SIDEWALK REPLACEMENT SHALL BE 5'-0" WIDE, 4" THICK OUTSIDE DRIVE AREA AND 9" THICK IN DRIVE APRON AREAS.

Connector
Lloyd Road Ramp

The Lubrizol Corporation
Vol. 393, Pg. 482
P.P.N. 29A-004-014
1.9059 Acres



THIS DRAWING IS SUBJECT TO REVISIONS. ANYONE USING THIS DRAWING IS HEREBY ADVISED THAT REVISIONS MAY OCCUR AND VERIFICATION THAT THESE PLANS ARE CURRENT SHOULD BE MADE.

REV. No.	DATE	BY	CHK'D

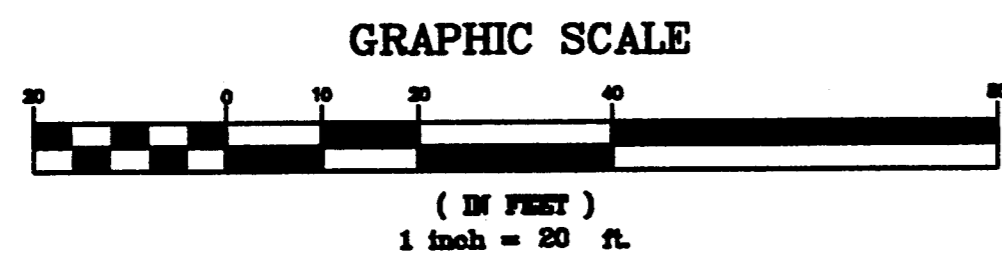
LAND DESIGN consultants
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LAKETRAN
Parking Lot Expansion Ph.2
CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE MARCH 20, 2001
SCALE: HOR. 1"=20'
VERT. 1"=5'
FILENAME DAF1/PLAN-02
CHK'D BY
F.B. No.

EXISTING CONDITIONS/
TREE PRESERVATION PLAN

SHEET	OF
2	9
CONTRACT No.	
LAKET1-9901	

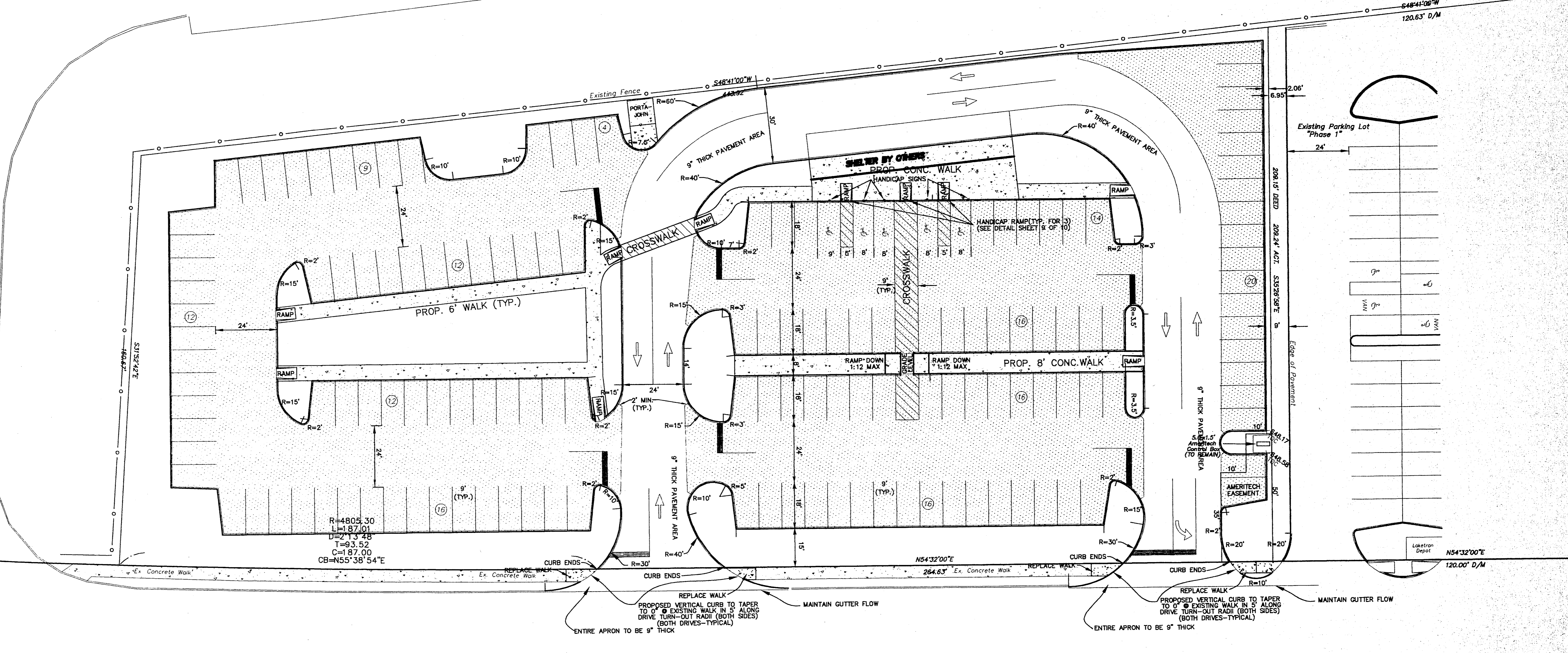


STATE ROUTE 2

East Bound On Ramp

Connector

Lloyd Road Ramp



Existing Parking Lot "Phase 1"

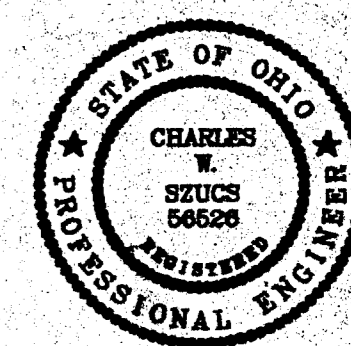
Edge of Pavement

AMERITECH EASEMENT

Lotron Depot

LAKELAND BOULEVARD 80'

- NOTES:
- 1.) SHADED PARKING AREAS SHALL HAVE A PAVEMENT THICKNESS OF 7" PLAIN CONCRETE. (ODOT ITEM 452) (SEE DETAIL SHEET 10 OF 10)
 - 2.) DRIVE AREAS SHALL HAVE A PAVEMENT THICKNESS OF 9" CONCRETE. (ODOT ITEM 452) (SEE DETAIL SHEET 10 OF 10)



EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, LDC INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

PARKING LEGEND:
PARKING SPACE PROVIDED: 146
INCLUDING 5 HANDICAP SPACES, 2 OF WHICH ARE VAN ACCESSIBLE.

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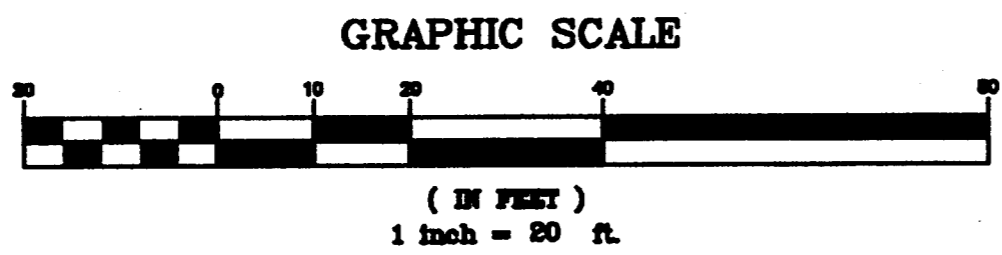
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LAKETRAN
Parking Lot Expansion Ph.2
CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE: MARCH 20, 2001
SCALE: HOR. 1"=20'
VERT. 1"=5'
FILENAME: DAEI/PLAN-03
CHK'D BY:
F.B. No.:

DIMENSION CONTROL & STRIPING PLAN

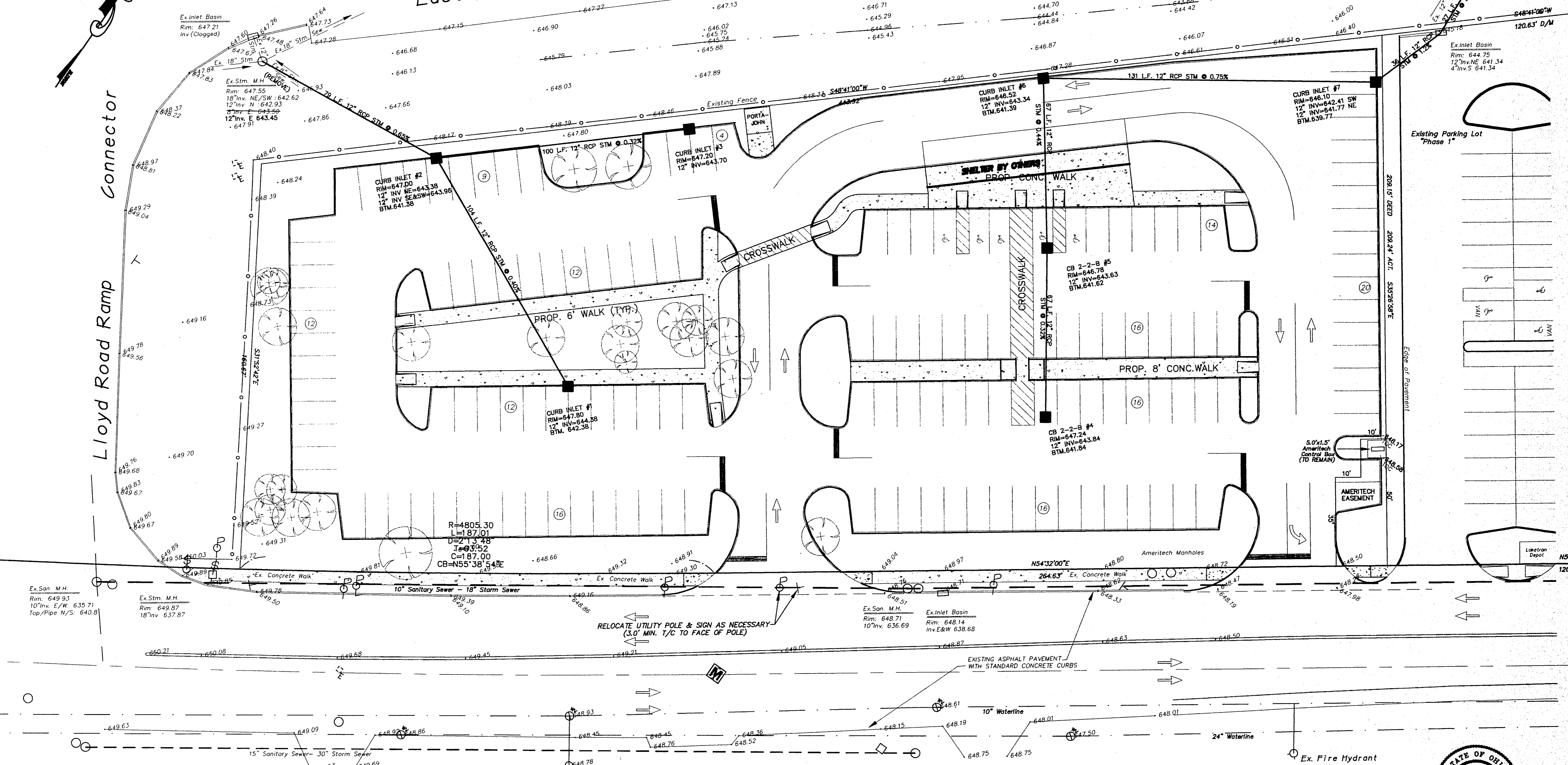
SHEET	OF
3	9
CONTRACT No.	
LAKET1-9901	



STATE ROUTE 2

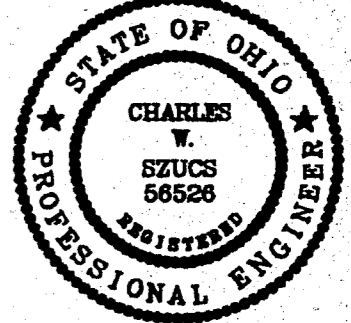
East Bound On Ramp

Lloyd Road Ramp Connector



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LAKETRAN
 Parking Lot Expansion Ph.2
 CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE MARCH 20, 2001
 SCALE: HOR. 1"=20'
 VERT. 1"=5'
 FILENAME D:\FL\PLAN-04
 CHK'D BY
 F.B. No.

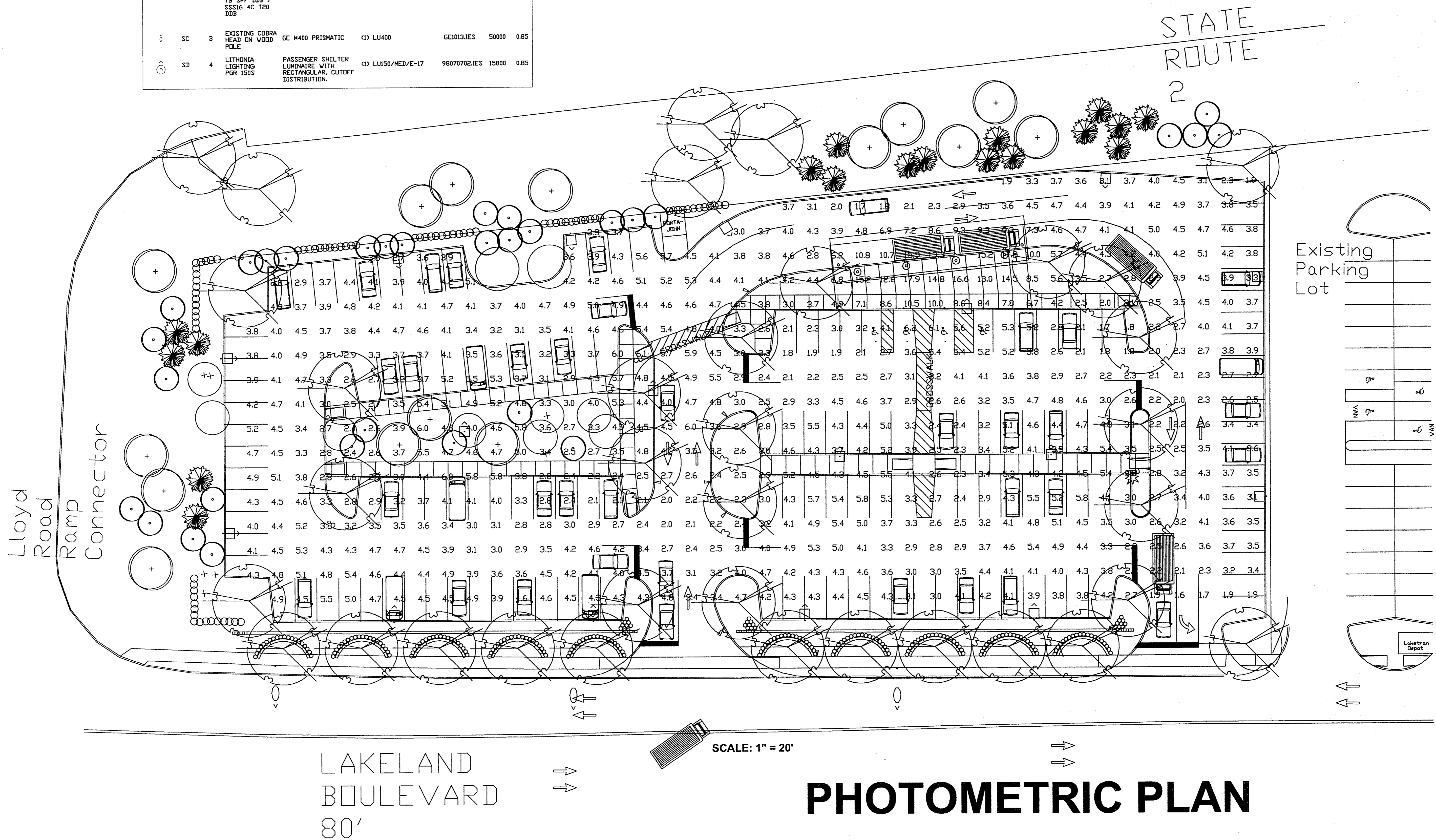
UTILITY PLAN

SHEET 4 OF 9
 CONTRACT No. LAKET1-9901

LUMINAIRE SCHEDULE								
SYMBOL	LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	FILE	LUMENS	LLF
⊕	SA	12	LITHONIA LIGHTING KVE2 400S ASYC HS SP04 DBB / SSS20 SC DM19 DBB	SQUARE AREA LIGHT V/ASYMMETRIC CUTOFF DISTRIBUTION, HOUSE SIDE SHIELD, VERTICAL LAMP POSITION AND ARM MOUNTED TO 20" SQUARE STRAIGHT STEEL POLE.	⊕ LU400	98060921.IES	50000	0.85
⊕	SB	5	LITHONIA LIGHTING KVE2 250S SYNC OPTICS. TB SP7 DBB SSS16 4C T20 DBB	SAME AS TYPE-SA EXCEPT MOUNTING AND OPTICS.	⊕ LU250	98061019.IES	29000	0.85
⊕	SC	3	EXISTING COBRA HEAD ON WOOD POLE	GE M400 PRISMATIC	⊕ LU400	GE1013.IES	50000	0.85
⊕	SD	4	LITHONIA LIGHTING PGR 150S	PASSENGER SHELTER LUMINAIRE WITH RECTANGULAR, CUTOFF DISTRIBUTION.	⊕ LU150/MED/E-17	98070702.IES	15800	0.85

STATISTICS					
DESCRIPTION	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PARKING AREA	4.1 fc	17.9 fc	1.6 fc	11.2:1	2.6:1

- NOTES
1. TYPE-SA MOUNTED 22' - 0" A.F.G.
 2. TYPE-SB MOUNTED 16' - 0" A.F.G.
 3. LIGHTING CALCULATION GRID 10' X 10' @ GRADE LEVEL
 4. TYPE-SD MOUNTED TO BOTTOM OF CANOPY 9' - 0" A.F.G.



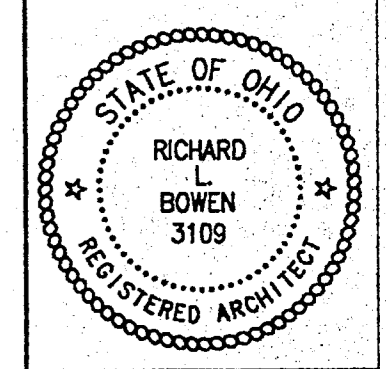
DATES AND REVISIONS

RICHARD L. BOWEN AND ASSOCIATES INC.
 13000 SHAKER BOULEVARD, CLEVELAND, OHIO 44120
 (216) 481-6800 FAX 481-9055

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LAKETRAN PARKING LOT EXPANSION 2
 LAKELAND BLVD. WICKLIFFE, OHIO

REV. No.	DATE	BY	CHK'D

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LDC
 1471 LEAR INDUSTRIAL PARK - AVON, OHIO 44011
 TELEPHONE 440-937-5601 440-937-5603(FAX)

LAKETRAN
 PARK & RIDE LOT
 CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE MARCH 20, 2001
 SCALE: HOR. 1" = 20'
 VERT. 1" = 20'
 FILENAME DAFI/PLAN-05
 CHK'D BY
 F.B. No.

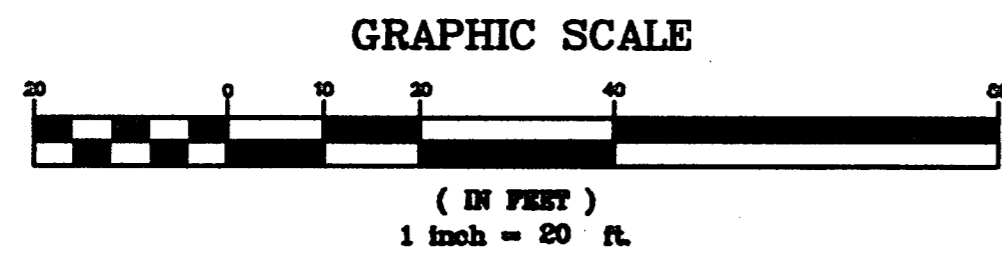
PHOTOMETRIC PLAN

SHEET 5 OF 9

CONTRACT No. LAKET1-9901

DRAWN BY: FEG
 CHECKED BY: WJB
 RLB# 5486

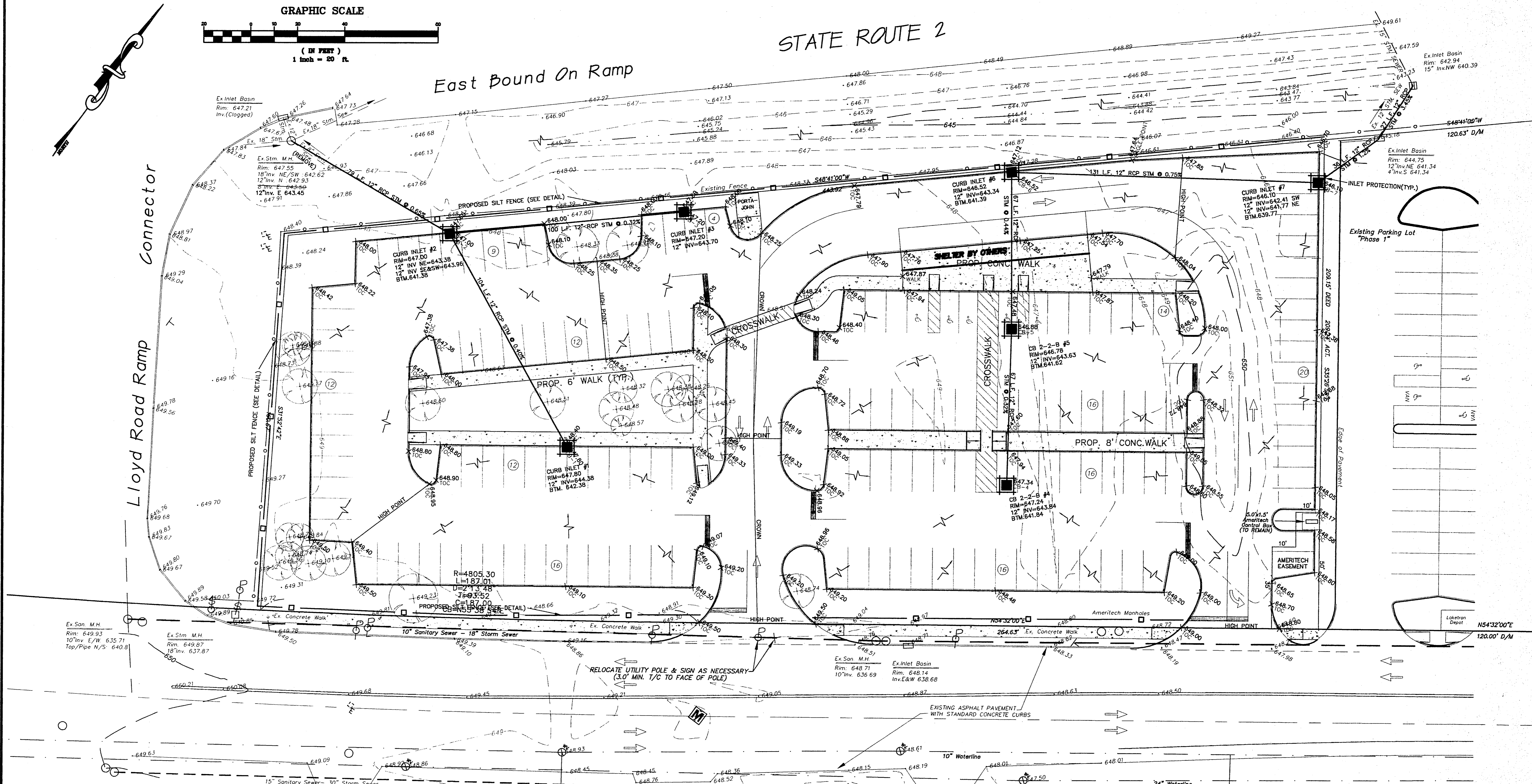
DRAWING NO. **PH1**



STATE ROUTE 2

East Bound On Ramp

Lloyd Road Ramp Connector

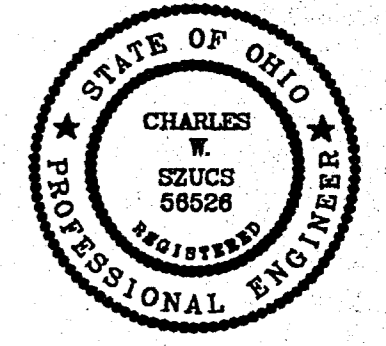


LEGEND

- GRADE FLOW ARROWS
- STORM SEWER FLOW DIRECTION
- PAVEMENT MARKINGS
- 649.50 — PROPOSED GRADE or TOC (AS NOTED)
- TOC — (TOP OF CURB)
- 0.00.00 — T/W= GROUND GRADE @ TOP OF WALL
- 0.00.00 — B/W= GROUND GRADE @ BOTTOM OF WALL
- INLET PROTECTION
- SILT FENCE

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LAKETRAN
 Parking Lot Expansion Ph.2
 CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE MARCH 20, 2001
 SCALE: HOR. 1"=20'
 VERT. 1"=5'
 FILENAME DAFEL/PLAN-06
 CHK'D BY
 F.B. No.

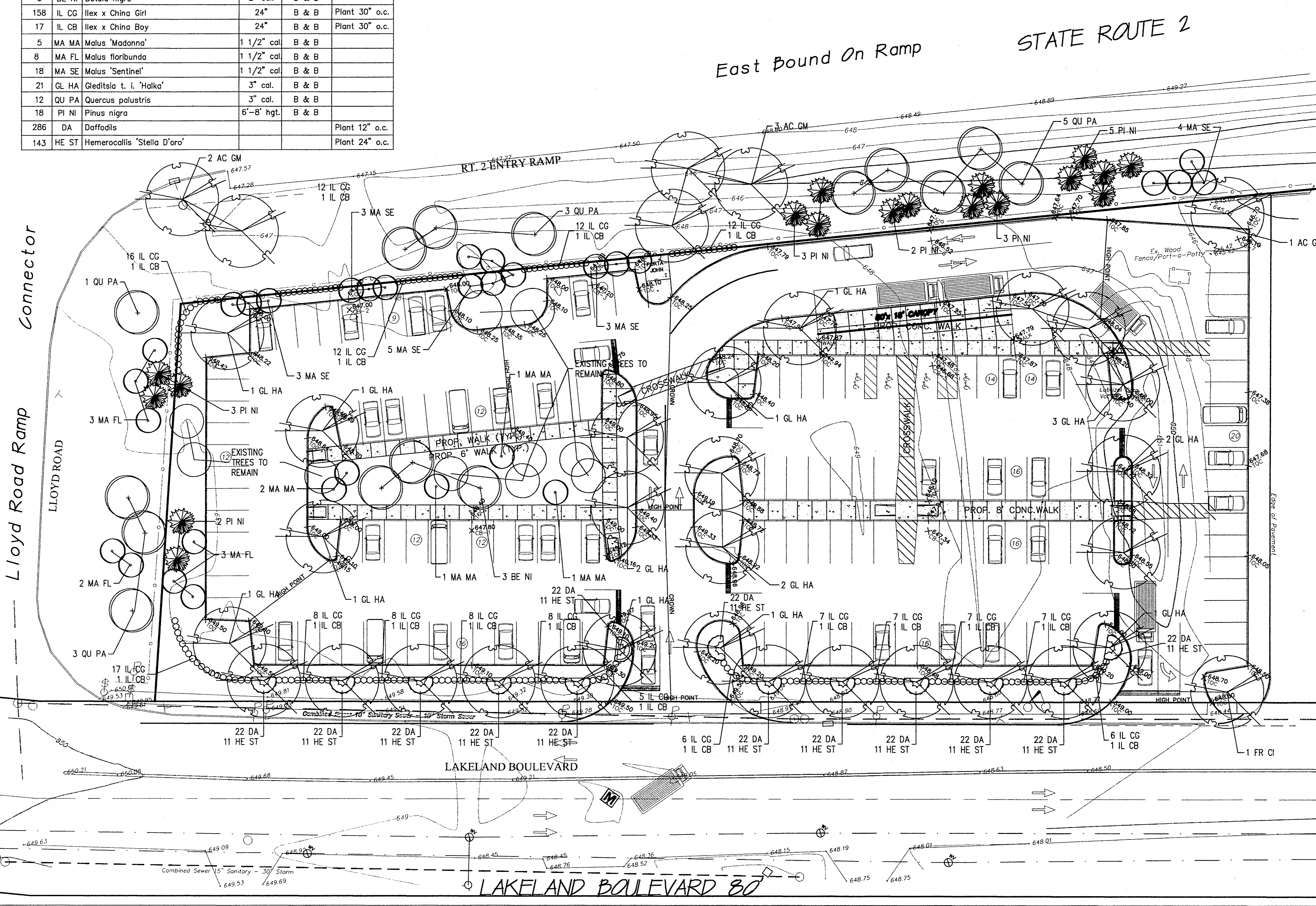
GRADING PLAN

SHEET 6 OF 9

CONTRACT No. LAKET1-9901

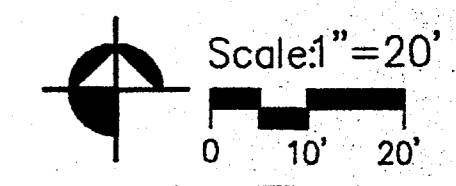
PLANT LIST

QUAN.	KEY	BOTANICAL NAME	SIZE	ROOTS	REMARKS
6	AC GM	Acer s. Green Mountain	3" cal.	B & B	
11	FR CI	Fraxinus p. cinnamom	3" cal.	B & B	
3	BE NI	Betula nigra	2" cal.	B & B	
158	IL CG	Ilex x China Girl	24"	B & B	Plant 30" o.c.
17	IL CB	Ilex x China Boy	24"	B & B	Plant 30" o.c.
5	MA MA	Malus 'Madonna'	1 1/2" cal.	B & B	
8	MA FL	Malus floribunda	1 1/2" cal.	B & B	
18	MA SE	Malus 'Sentinel'	1 1/2" cal.	B & B	
21	GL HA	Gleditsia t. i. 'Halka'	3" cal.	B & B	
12	QU PA	Quercus palustris	3" cal.	B & B	
18	PI NI	Pinus nigra	6'-8' hgt.	B & B	
286	DA	Daffodils			Plant 12" o.c.
143	HE ST	Hemerocallis 'Stella D'oro'			Plant 24" o.c.



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East Bound On Ramp STATE ROUTE 2



BEHNKE

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 Cleveland, Ohio 44113-1230
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 www.behnkeassoc.com info@behnkeassoc.com Email

Laketrans
 Park & Ride
 City of Wickliffe

March 2001

Planting Plan

REV. No.	DATE	BY	CHK'D

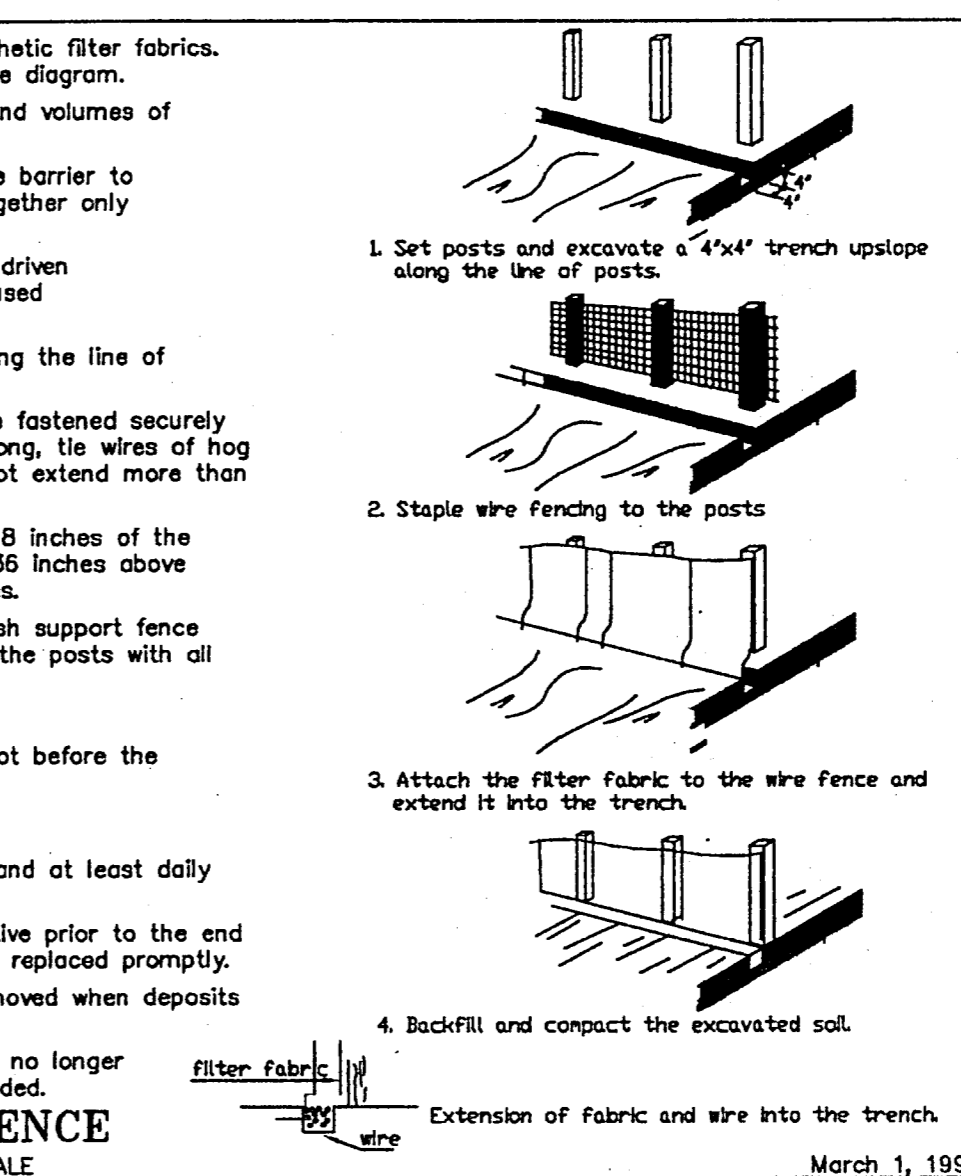
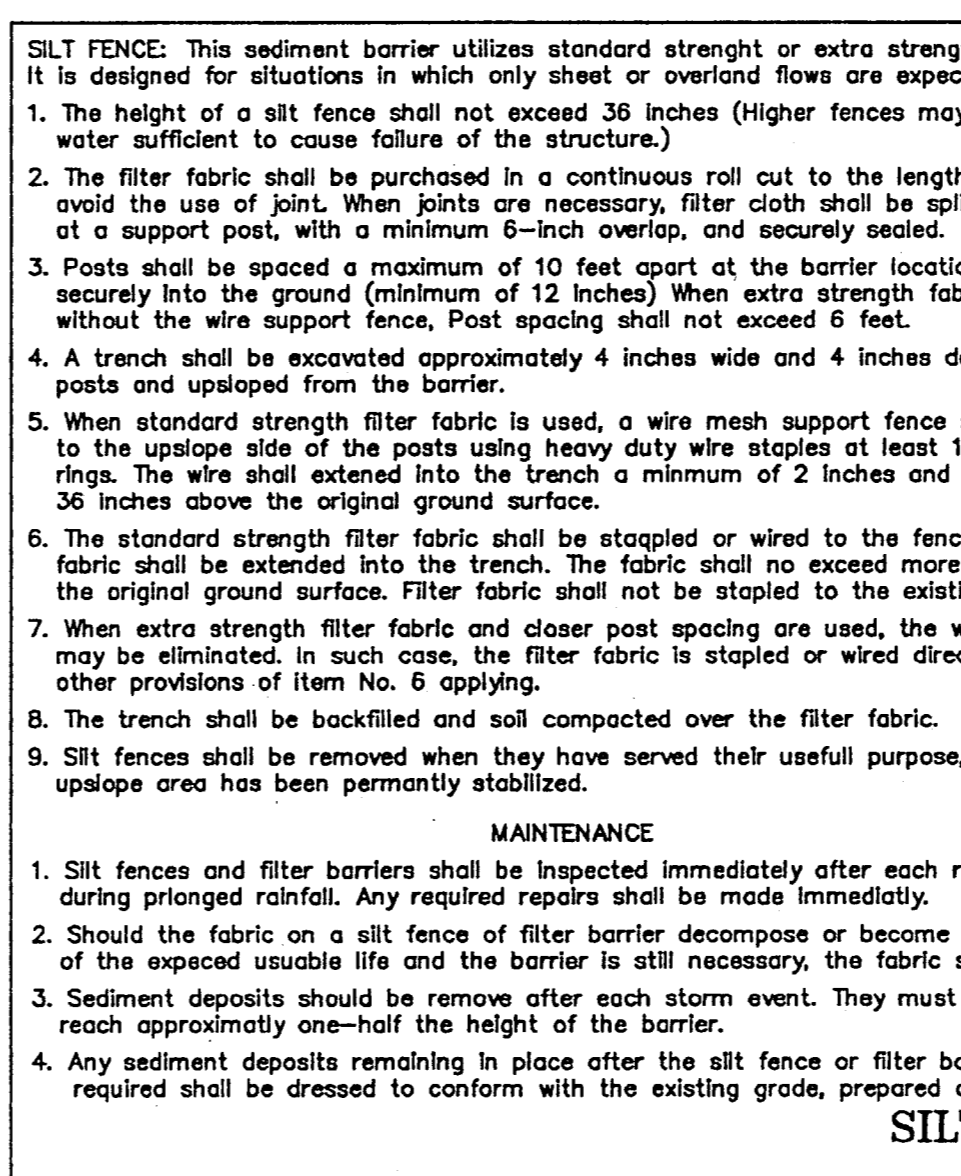
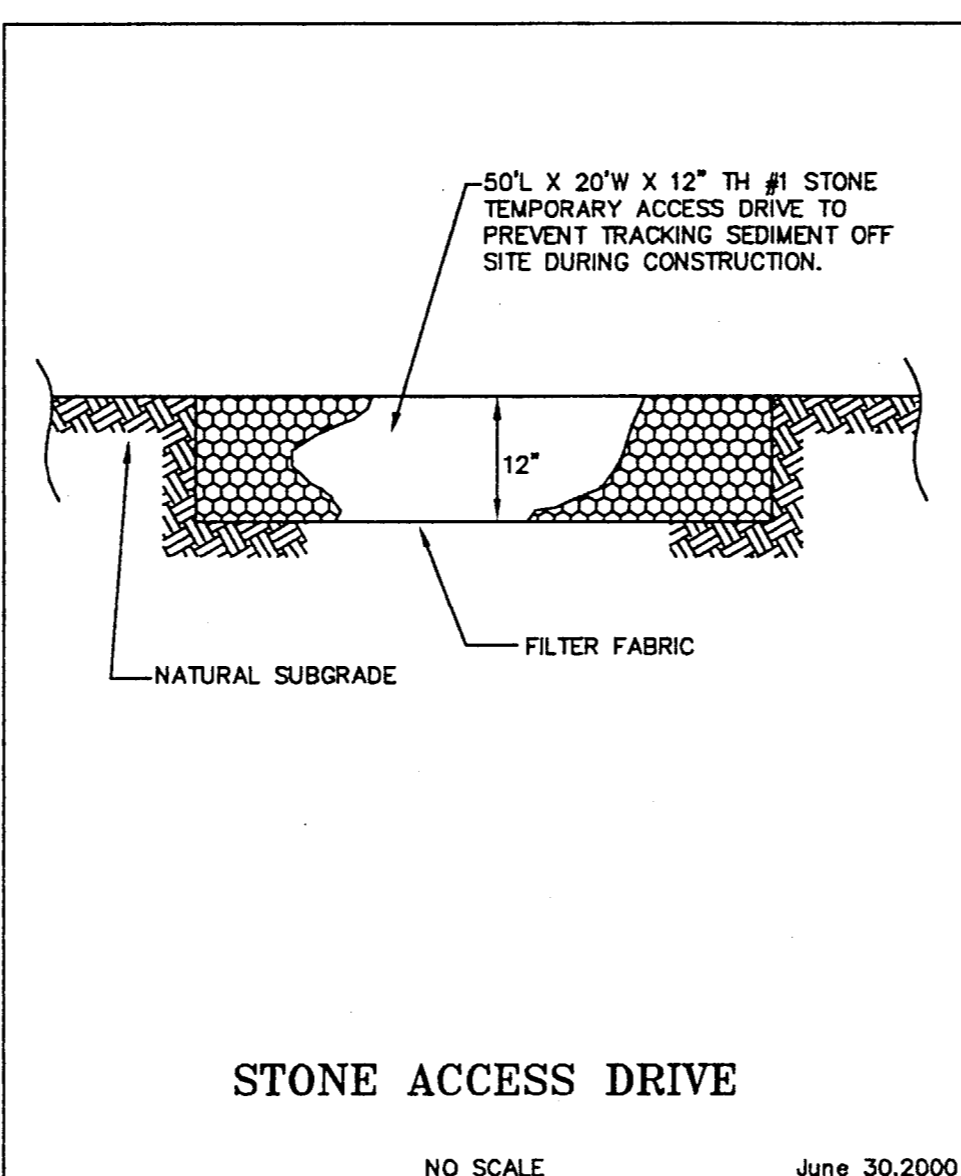
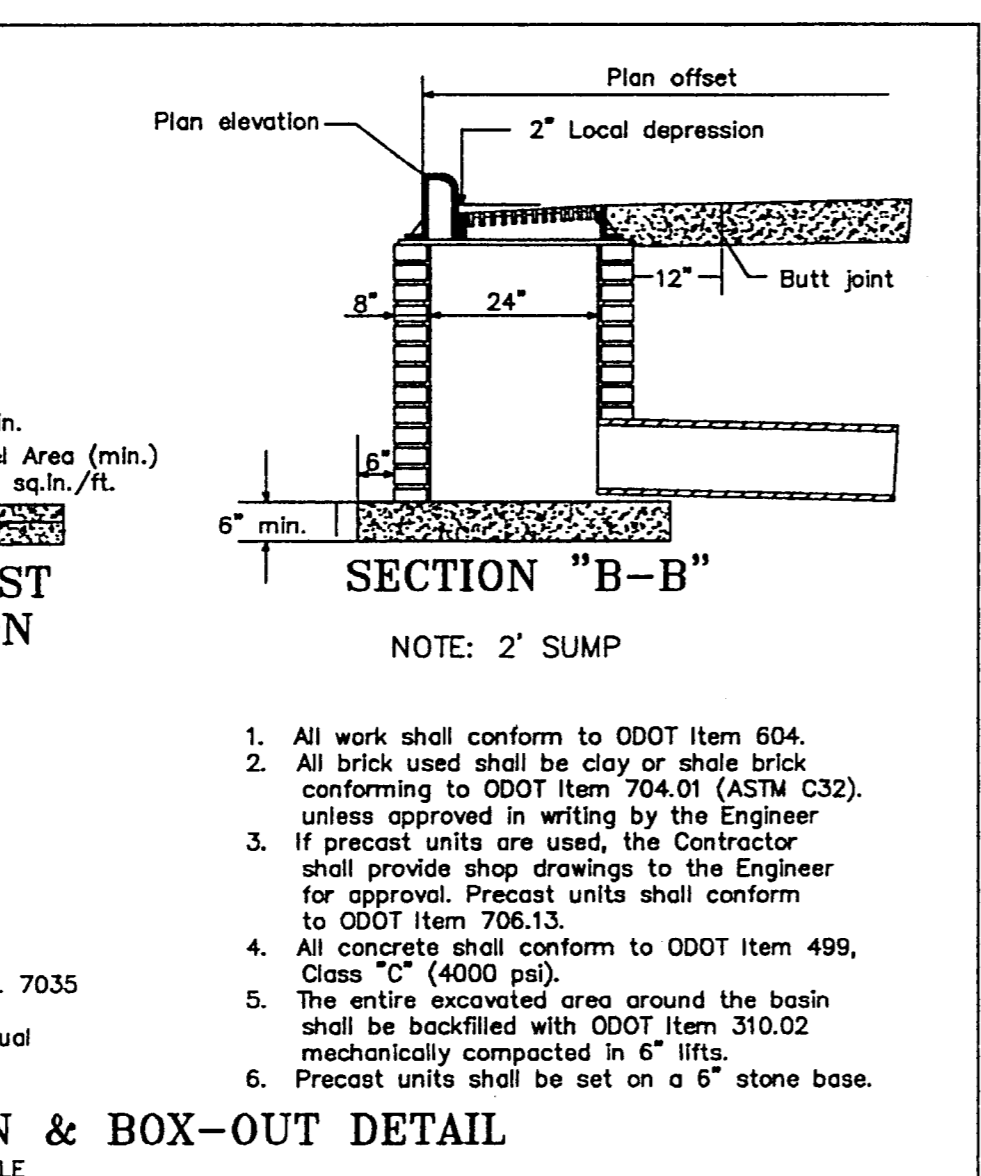
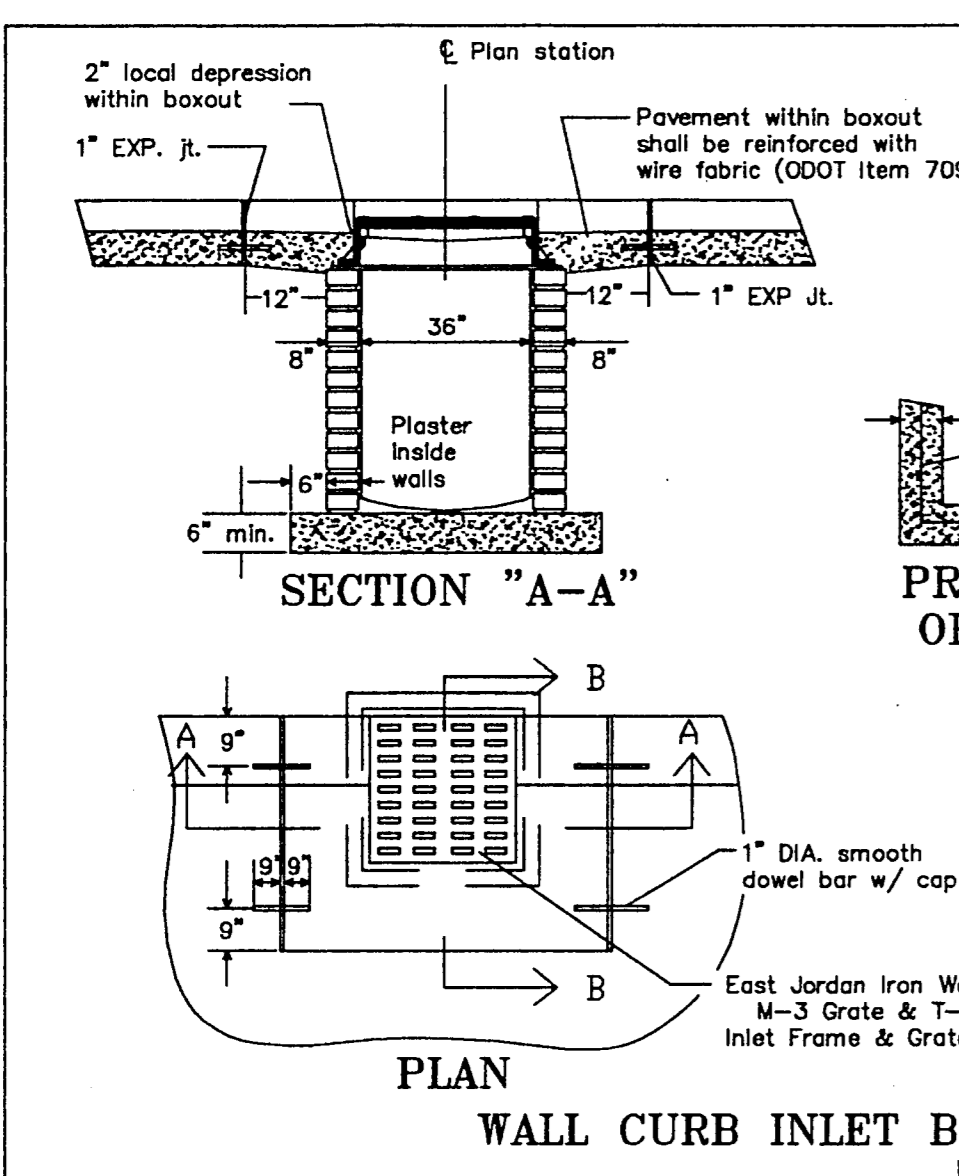
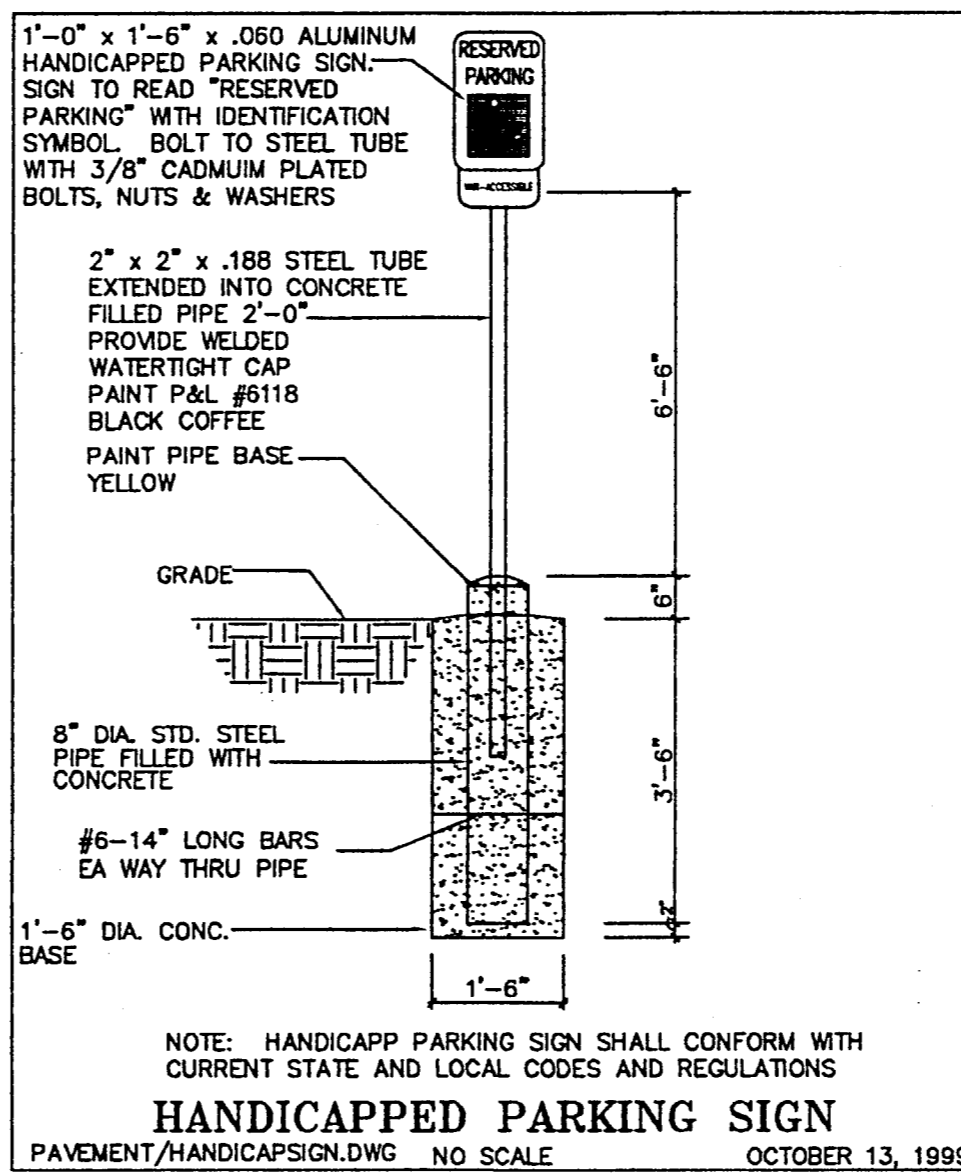
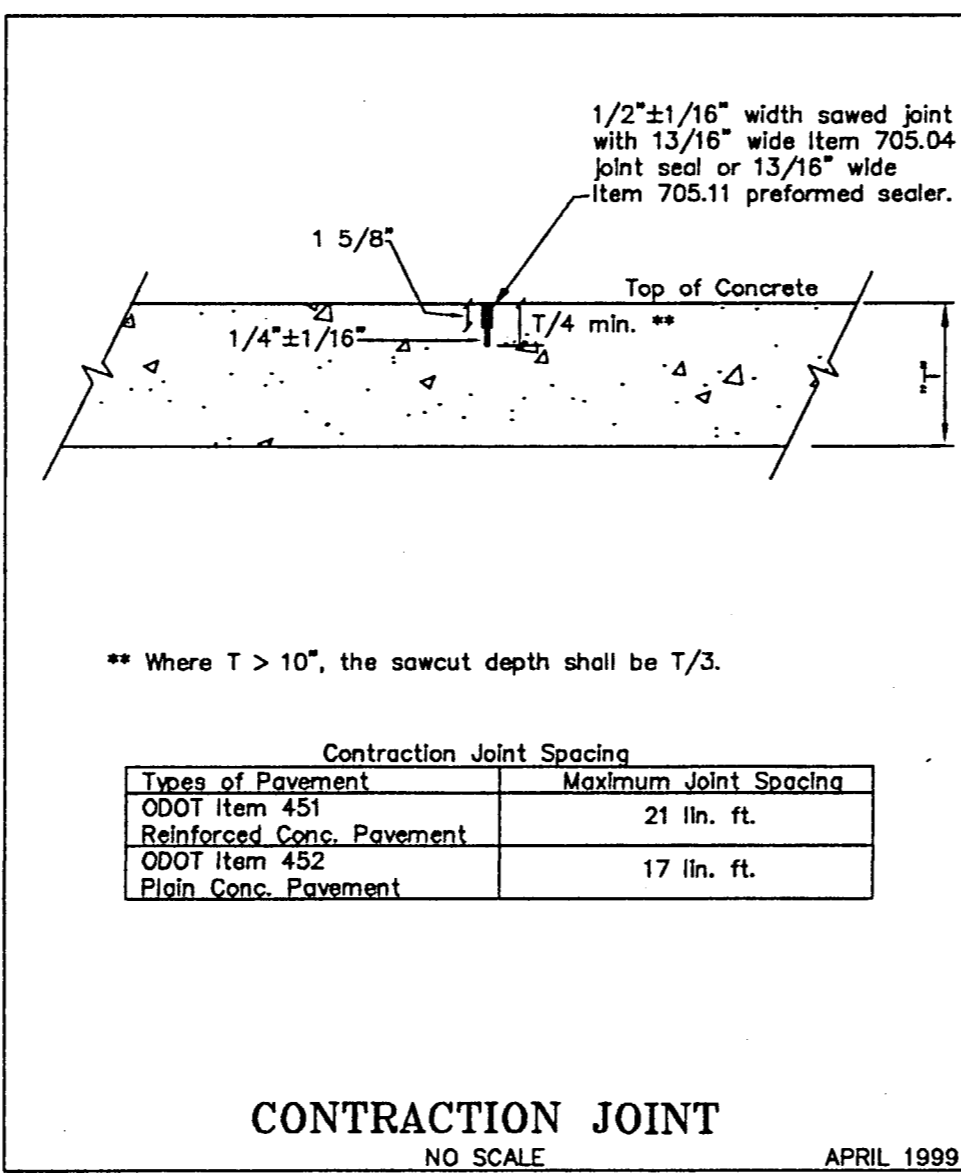
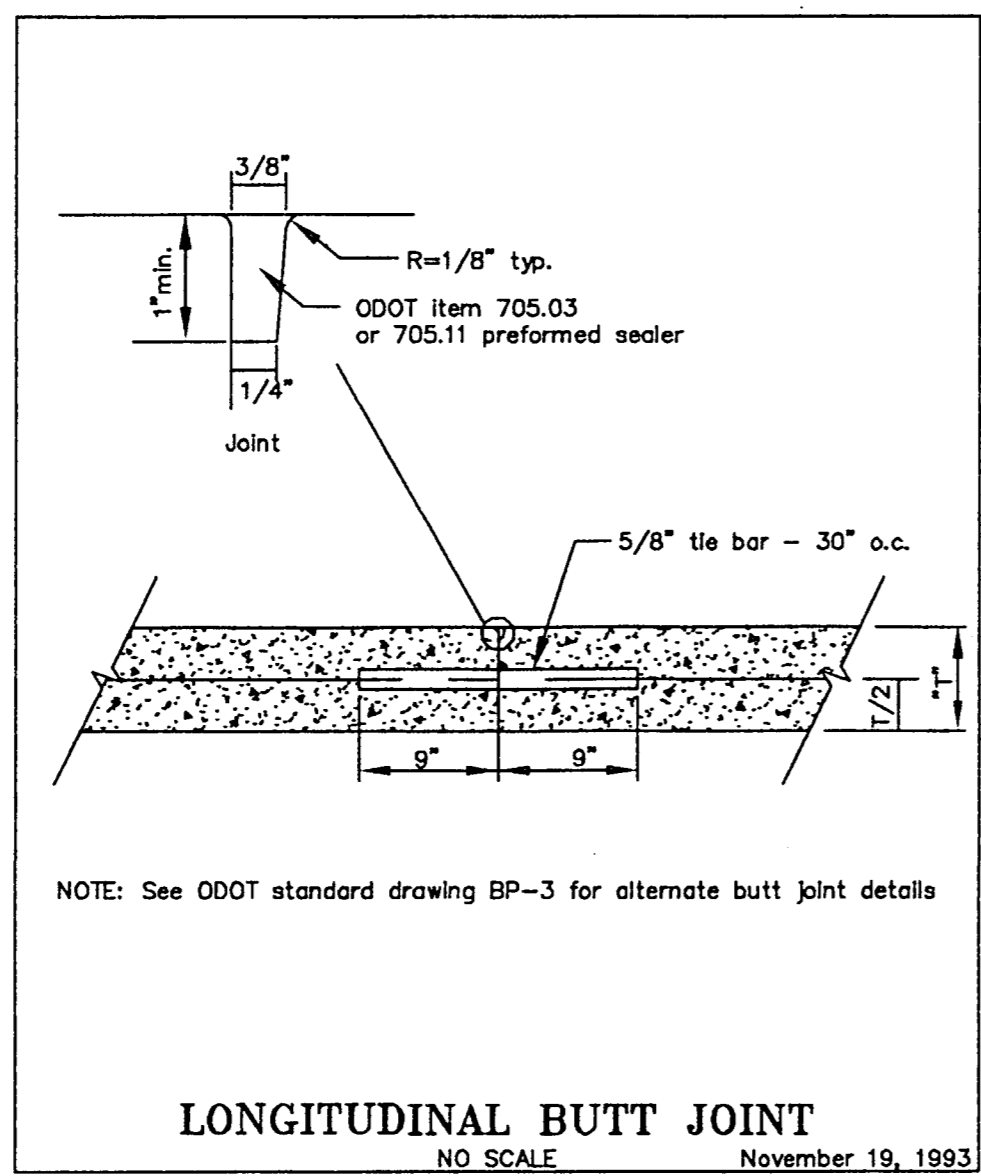
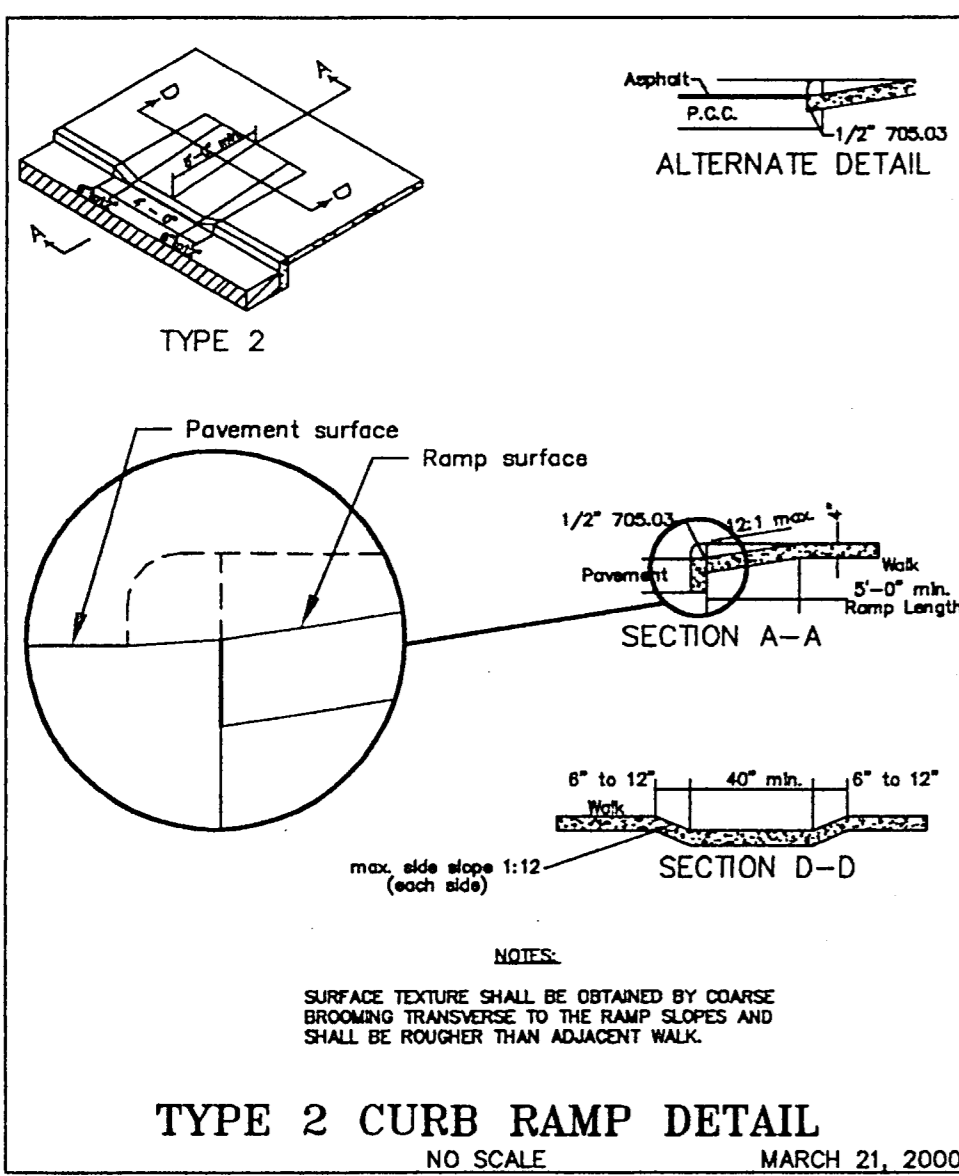
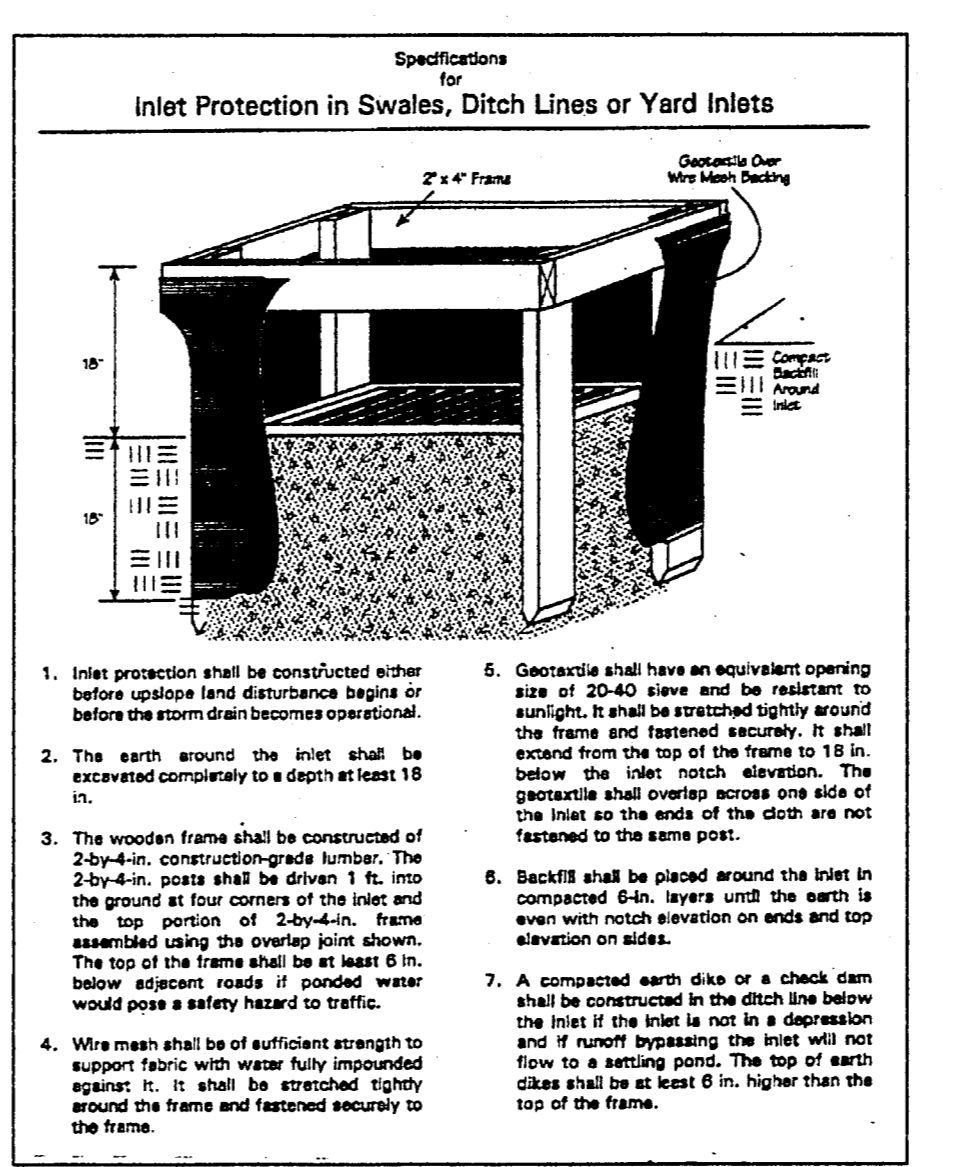
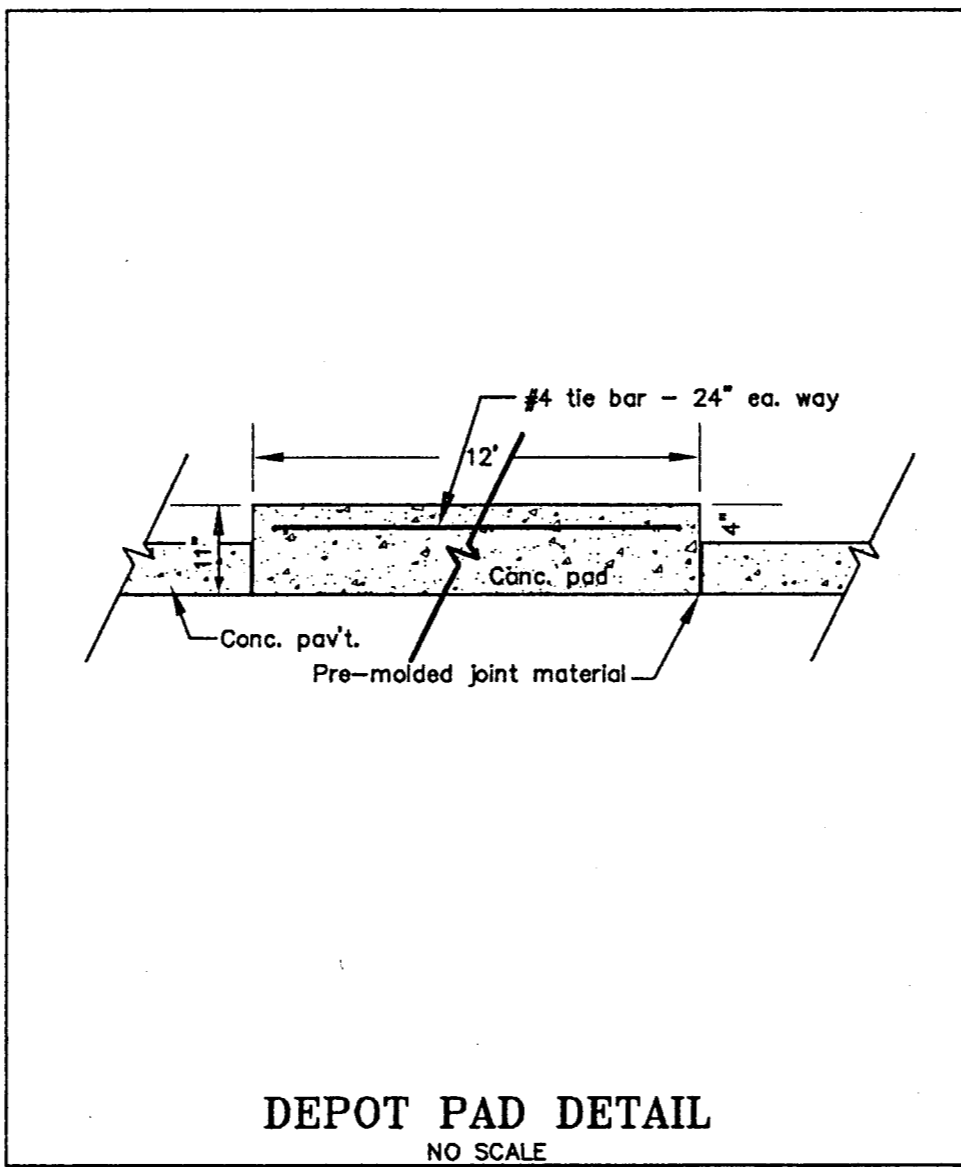
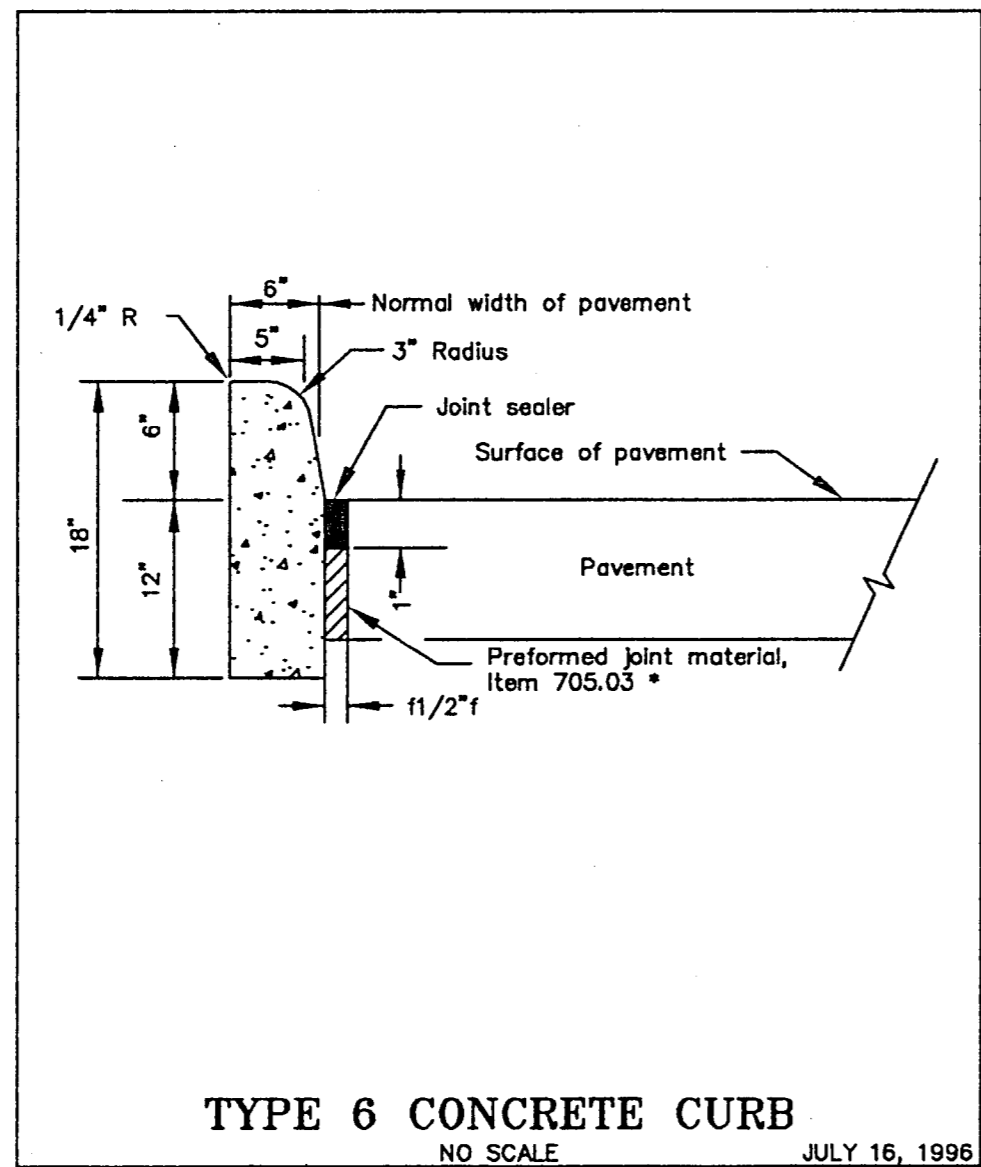
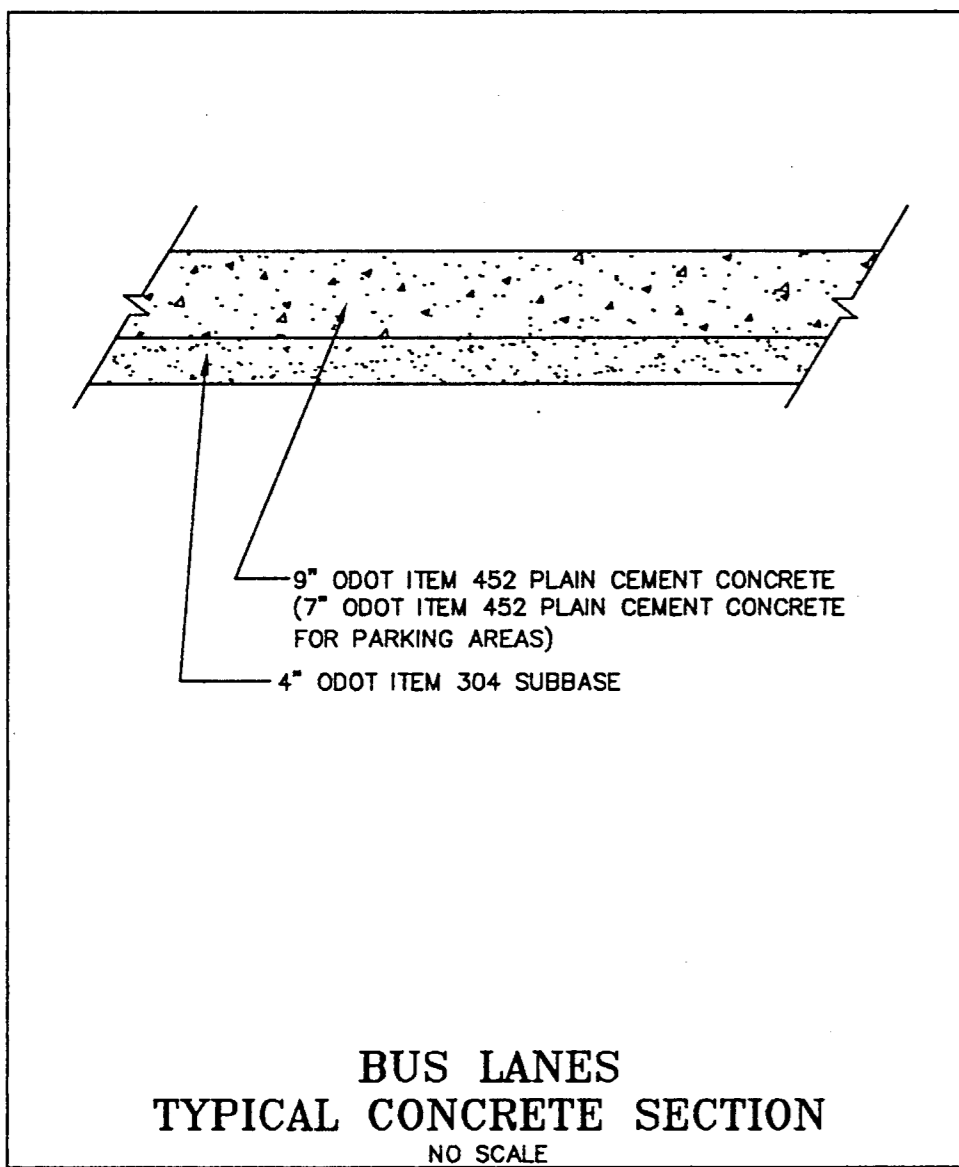
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LAKETRAN
 PARK & RIDE LOT
 CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE	MARCH 20, 2001
SCALE: HOR.	1"=20'
VERT.	none
FILENAME	DAFL/PLAN-07
CHK'D BY	DAFL
F.B. No.	

PLANTING PLAN

SHEET	OF
7	9
CONTRACT No.	
LAKET1-9901	



MATERIAL SPECIFICATIONS

SANITARY SEWER
C-700 E.S. VCP WITH PREMIUM JOINTS OR CL. 52 DUCTILE IRON PIPE.

STORM SEWER
STORM SEWER (RCP) 12" TO 15" SHALL BE C76 CL.IV.

STORM SEWER (VCP) 10" AND UNDER SHALL BE C-700 E.S.
STORM SEWER 10" AND UNDER MAY ALSO BE CL. 52 D.I.P. WHERE NOTED.

ALTERNATE: ADS N-12 OR HANCOB HI-Q (OR EQUAL) INSTALLED PER ODOT SUPPLEMENT SPEC. 820 AND AS PER CITY OF WICKLIFFE TRENCH AND BEDDING SPECIFICATIONS FOR PLASTIC PIPE.

WATERLINE
ALL WATERLINE MATERIAL AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH C.O.W.C. SPECIFICATIONS LISTED UNDER SECTIONS 1 THROUGH 17, CLASS 350 D.I.P. POLYWRAPPED.

GAS
PLASTIC-DRISCO PIPE 8000 SDR 11 PER EAST OHIO GAS CO.

SEEDING AND MULCHING NOTES
SEEDING AND MULCHING SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OF FILL AND FINISHED GRADING IN ACCORDANCE WITH ITEM NO. 659 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

THE FOLLOWING MIXTURE SHALL BE USED FOR SEEDING IN ACCORDANCE WITH ODOT ITEM 659.

KENTUCKY BLUE GRASS 40%
CREEPING RED FESCUE 40% 3#/1000 S.F.
PERENNIAL RYEGRASS 20%
FERTILIZER 20#/1000 S.F. (12-12-12)
MULCH-STRAW 3 TONS/ACRE

EROSION CONTROL PLAN & SCHEDULE

SILT FENCE TO BE INSTALLED PRIOR TO ANY EARTHWORK ACTIVITY, IN LOCATION SHOWN ON PLANS, PER DETAIL.

STONE SHALL BE INSTALLED IN FUTURE DRIVEWAY AREA 20 FEET WIDE AND 50 FEET LONG TO PREVENT VEHICLES FROM TRACKING SEDIMENT OFF THIS SITE. INGRESS AND EGRESS TO BE LIMITED TO THIS AREA ONLY.

FOLLOWING STORM OUTLET CONSTRUCTION, INSTALL FILTER FABRIC OVER PROPOSED INLET BASIN AND SURROUND WITH STRAW BALES TO PREVENT SILT FROM LEAVING SITE PER DETAIL.

SEEDING AND MULCHING SHALL BE FUNCTIONAL THROUGHOUT ALL PHASES OF EARTH DISTURBING ACTIVITY. SETTLING FACILITIES, PERMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE DISTURBED AREA IS PERMANENTLY RESTABILIZED.

DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN NO MORE THAN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT UNDISTURBED FOR MORE THAN THIRTY (30) DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN NO MORE THAN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN NO MORE THAN SEVEN (7) DAYS TO DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT FOR LONGER THAN THIRTY (30) DAYS. WHEN CONDITIONS PROHIBIT TEMPORARY OR PERMANENT SEEDING, DISTURBED AREAS SHALL BE STABILIZED WITH MULCH.

STABILIZATION OF CRITICAL AREAS WITHIN 50 FEET OF ANY STREAM OR WETLAND (OR DITCH) SHALL BE TEMPORARILY STABILIZED WITHIN TWO (2) DAYS OF DISTURBANCE IF THE AREA WILL REMAIN INACTIVE FOR FOURTEEN (14) DAYS OR LONGER. TEMPORARY STABILIZATION INCLUDES TEMPORARY SEEDING AND MULCHING.

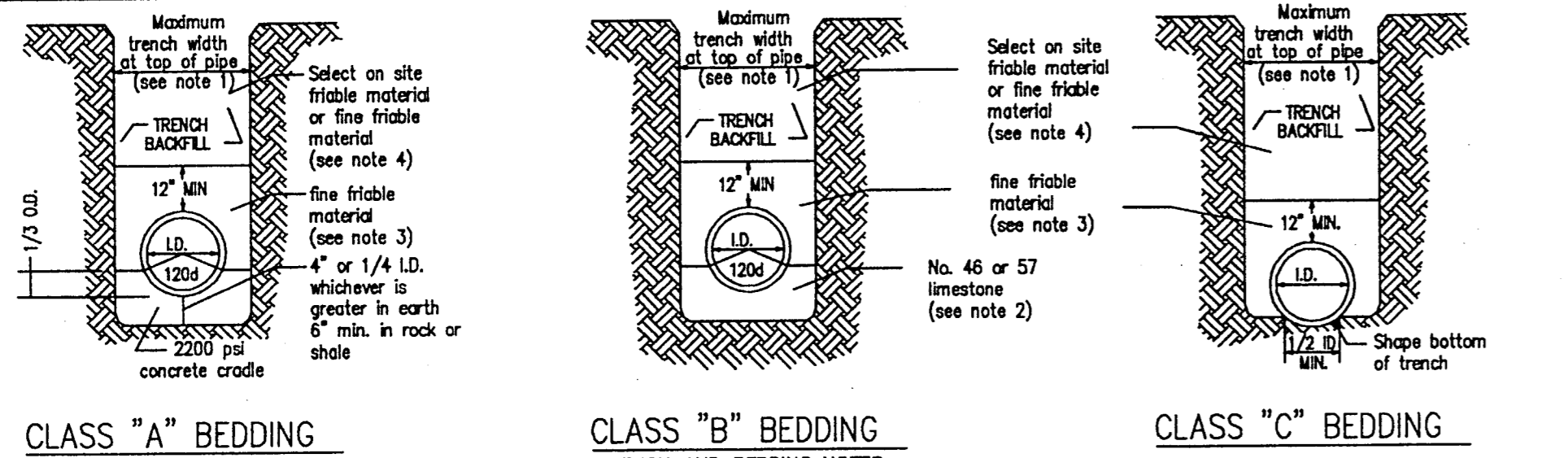
ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT LADEN WATER WILL NOT ENTER THE STORM SEWER WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY. STORM SEWER INLET PROTECTION SHALL BE EVALUATED TO AVOID FLOODING ROADWAYS AND OFF SITE.

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS, WHERE SOIL IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY, AS NECESSARY. SOIL SHALL BE REMOVED FROM PAVED SURFACES BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER MOST SEDIMENT HAS BEEN REMOVED BY SHOVELING OR SWEEPING.

THE ABOVE SPECIFIED EROSION CONTROL STANDARDS ARE GENERAL GUIDELINES AND SHALL NOT LIMIT THE RIGHT OF THE COUNTY TO IMPOSE, AT ANY TIME, ADDITIONAL MORE STRINGENT REQUIREMENTS, NOR SHALL THE STANDARDS LIMIT THE RIGHT OF THE COUNTY TO WAIVE, IN WRITING, INDIVIDUAL REQUIREMENTS.

PERMANENT SEEDING TO BE INSTALLED AFTER ALL CONSTRUCTION ACTIVITY IS COMPLETE.

STATE OF OHIO
CHARLES W. SZUGS
REGISTERED PROFESSIONAL ENGINEER



CLASS "A" BEDDING

CLASS "B" BEDDING

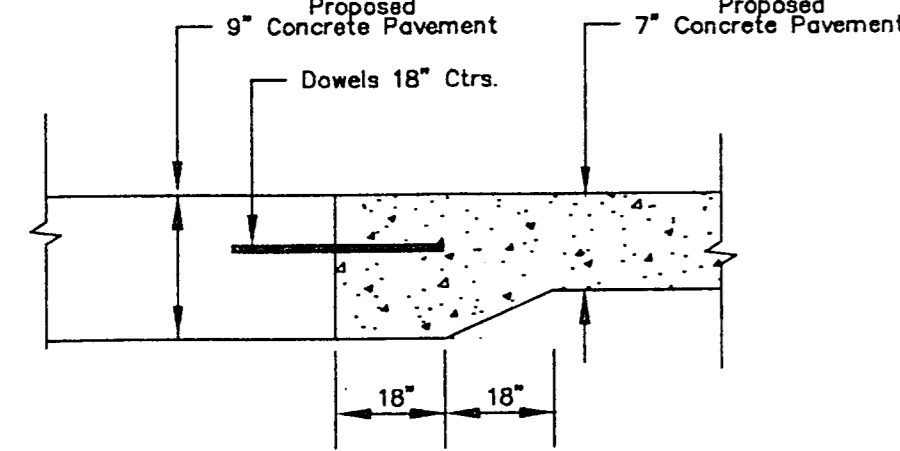
CLASS "C" BEDDING

- TRENCH AND BEDDING NOTES**
- Maximum trench width at top of pipe shall be O.D. plus 24" for all pipe sizes up to and including 24" I.D. and O.D. plus 30" for pipe sizes larger than 24" I.D.
 - Pipe bedding shall be No. 46 or No. 57 limestone to springline of pipe.
 - Pipe backfill under pavement and structures shall be No. 46 or No. 57 limestone to 12" above top of pipe. The backfill material shall extend to a minimum of three feet beyond each edge of pavement or structure. In areas outside of pavement, select on site friable material approved by the Engineer may be used.
 - Remaining backfill under pavement and structures shall be No. 10 limestone or gravel compacted in lifts not to exceed 4" to top of trench. (ODOT Item 310 gravel may be used as approved by the Engineer.) The backfill material shall extend a minimum of 3 feet beyond each edge of pavement or structure. In areas outside of pavement, select on site friable material approved by the Engineer may be used in lifts not to exceed 6" to top of trench.
 - All bedding shall be Class "B" unless otherwise noted on the plans or authorized by the Engineer.
 - Waterline bedding shall be Class "C".
 - Slag bedding shall not be used.
 - Clay dams shall be required when and where necessary per the sole discretion of the Engineer.

PIPE BEDDING DETAIL

NO SCALE

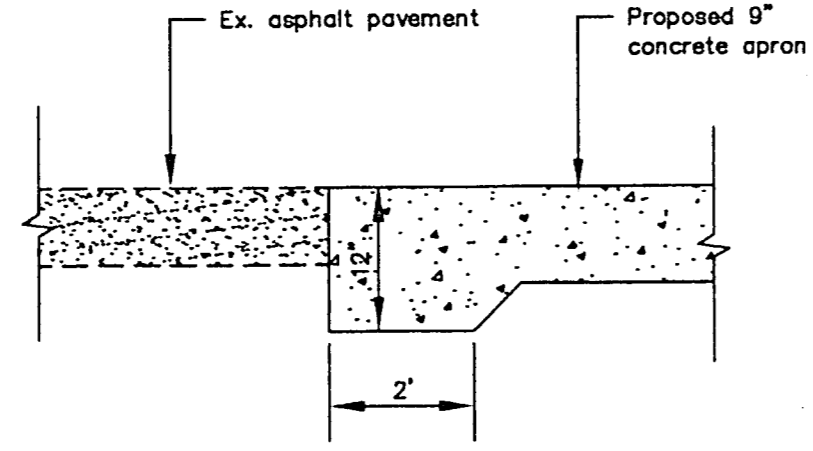
March 1, 1994



NOTE: TO BE CONSTRUCTED WHERE 9" CONCRETE PAVEMENT MEETS 7" CONCRETE PAVEMENT.

THICKENED EDGE PAVEMENT DETAIL

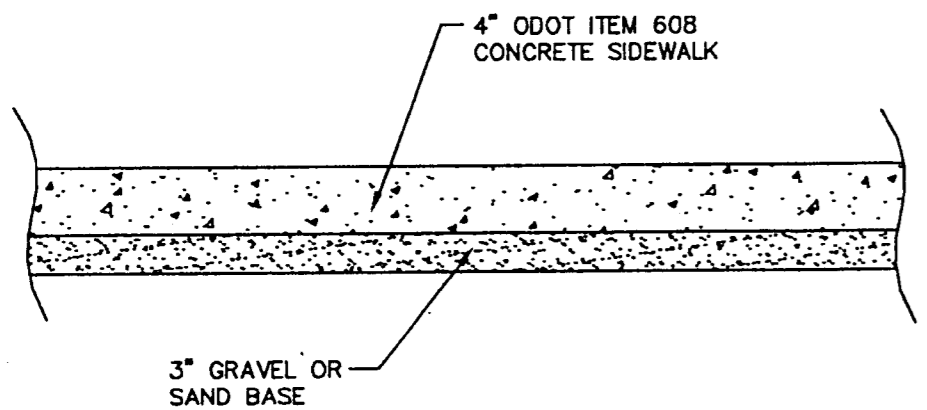
NO SCALE



NOTE: TO BE CONSTRUCTED AT ENTRANCE WHERE APRON MEETS EX. PAVEMENT.

THICKENED EDGE PAVEMENT DETAIL

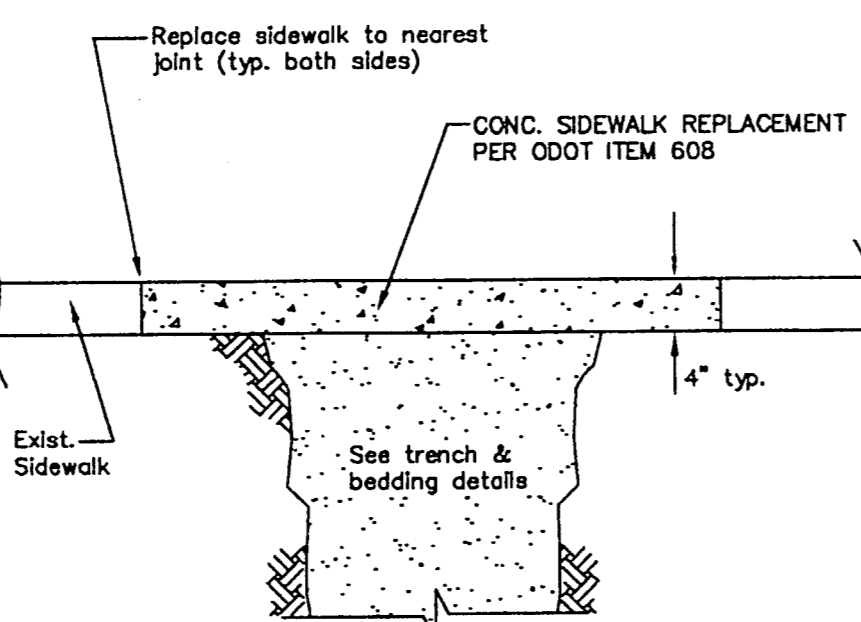
NO SCALE



PROPOSED SIDEWALK DETAIL

NO SCALE

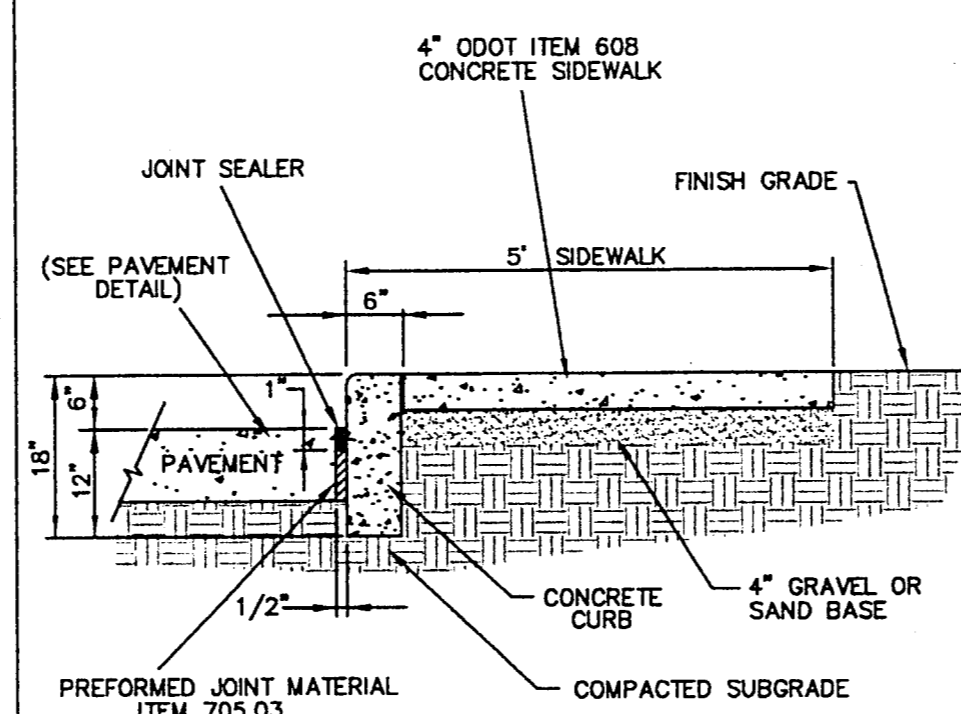
DECEMBER 18, 1997



SIDEWALK REPLACEMENT DETAIL

NO SCALE

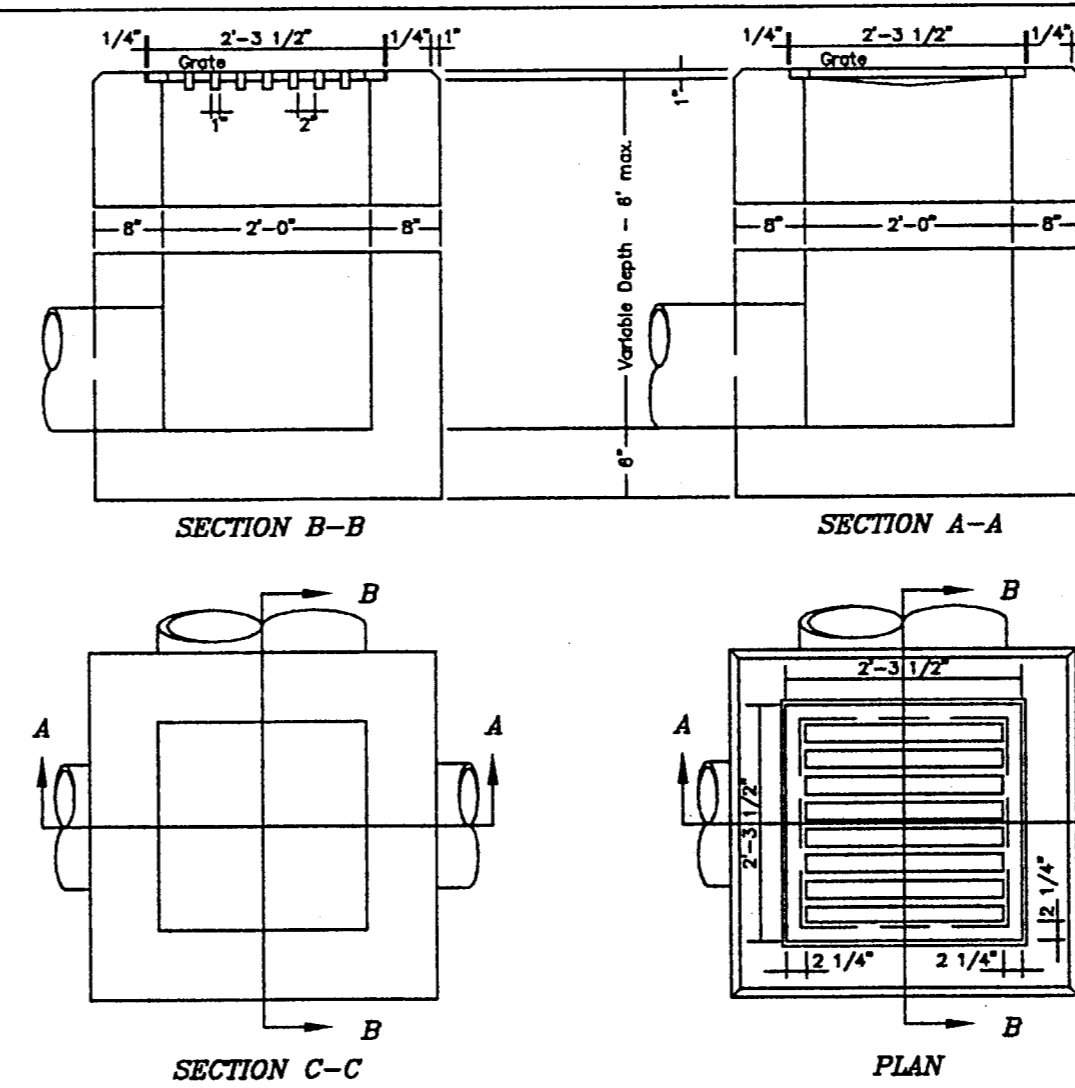
October 27, 1997



CONCRETE CURB/WALK DETAIL

NTS

JAN. 20, 2000



CATCH BASIN 2-2-B

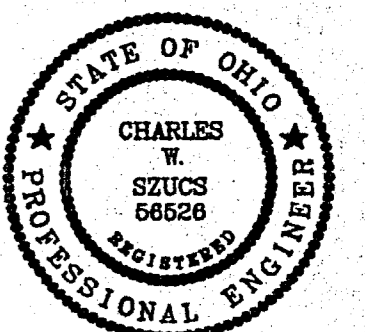
NO SCALE

LOCATION and elevation when given on the plans is top center of the grate.
 GRATING AND FRAME - The design shall be essentially the same and equally as strong as the one shown hereon.
 Weight of grate minimum - 120 lbs.
 Weight of frame minimum - 40 lbs.
 BRICK, concrete block or cast-in-place walls have a nominal thickness of 8 inches. Precast walls shall have a minimum thickness of 6 inches and be reinforced sufficiently to permit shipping and handling without damage.
 2-2-B GRATE elevation to be placed 4 to 6 inches below normal elevations of median or ditch flow line returning to normal 10 feet each side of basin.
 CONCRETE, cast-in-place, to be Class "C". All precast concrete shall meet the requirements of 706.13 with 6% plus or minus 2% air void content in the hardened concrete and be marked with catch basin number.
 OPENINGS for pipes shall be O.D. +2" when fabricated or field cut.
 THIS DETAIL IS INTENDED TO DETAIL THE ODOT STANDARD 2-2-B CATCH BASIN

NOTE: 2' SUMP ON ALL CATCH BASIN STRUCTURES

November 19, 1993

THIS DRAWING IS SUBJECT TO REVISIONS. ANYONE USING THIS DRAWING IS HEREBY ADVISED THAT REVISIONS MAY OCCUR AND VERIFICATION THAT THESE PLANS ARE CURRENT SHOULD BE MADE.



REV. No.	DATE	BY	CHK'D

LAND DESIGN consultants
 Civil Engineers and Surveyors
 8585 EAST AVENUE • MENTOR, OHIO 44060
 TELEPHONE 440-255-8463 440-354-6938 216-951-LAND 440-255-9575(FAX)
 1471 LEAR INDUSTRIAL PARK • AVON, OHIO 44011
 TELEPHONE 440-937-5601 440-937-5603(FAX)

LAKETRAN
 Parking Lot Expansion Ph.2
 CITY OF WICKLIFFE - LAKE COUNTY - OHIO

DATE	MARCH 20, 2001
SCALE:	HOR. _____
	VERT. _____
FILENAME	DAFL/PLAN-9
CHK'D BY	_____
F.B. No.	_____

CIVIL DETAILS & NOTES

SHEET	OF
9	9
CONTRACT No.	
LAKET1-9901	