

# SITE IMPROVEMENT PLANS

# RPS PACKAGE DISTRIBUTION CENTER INTER-OCEAN DRIVE

UNION TOWNSHIP  
BUTLER COUNTY, OHIO

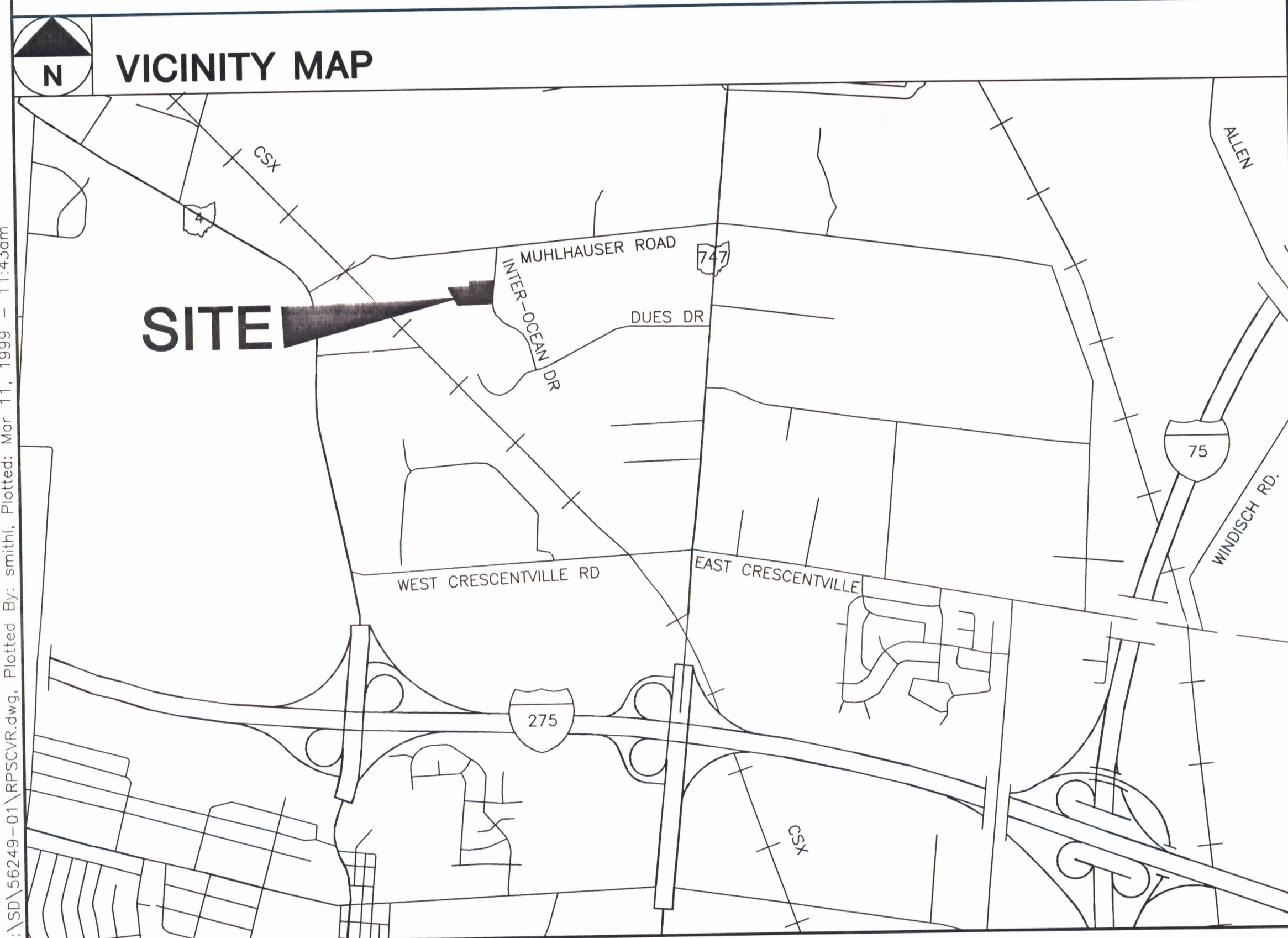
FEBRUARY, 1999

CIVIL

**WOOLPERT**  
WOOLPERT LLP  
4141 Rosslyn Drive  
Cincinnati, Ohio  
45209  
513.272.8300  
FAX: 513.272.8301

RECEIVED

MAR 15 1999  
BUTLER COUNTY  
ENGINEER'S OFFICE



## SHEET INDEX

- C1.1 COVER SHEET
- C1.2 EXISTING CONDITIONS PLAN
- C1.3 SITE PLAN
- C1.4 GRADING PLAN
- C1.5 UTILITY PLAN
- C1.6 EROSION CONTROL NOTES/DETAILS
- C1.7 CONSTRUCTION DETAILS

## GOVERNING AGENCIES

UNION TOWNSHIP ZONING DEPT.  
9119 CINCINNATI-DAYTON ROAD  
WEST CHESTER, OHIO 45069  
(513) 777-4214  
ATTN: JUDI CARTER

BUTLER COUNTY DEPARTMENT  
OF ENVIRONMENTAL SERVICES  
130 HIGH STREET  
HAMILTON, OHIO 45011  
(513) 887-3072  
ATTN: ALAN LABNOW

BUTLER COUNTY PLANNING DEPT.  
130 HIGH STREET  
HAMILTON, OHIO 45011  
(513) 887-3078  
ATTN: MIKE JUENGLING

BUTLER COUNTY ENGINEER  
1921 FAIRGROVE AVENUE  
HAMILTON, OHIO 45011  
(513) 867-5744  
ATTN: DAVID BRAND

BUTLER COUNTY BUILDING & ZONING  
130 HIGH STREET  
HAMILTON, OHIO 45011  
(513) 887-3205  
ATTN: STEVEN SOLTIS

BUTLER COUNTY SOIL CONSERVATION  
1810 PRINCETON ROAD  
HAMILTON, OHIO 45011  
(513) 867-5013

## UTILITY COMPANIES

**ELECTRIC**  
1. CINCINNATI GAS AND ELECTRIC COMPANY  
593 TODD-HUNTER ROAD  
MONROE, OHIO 45050  
ATTN: RON ASHBROCK  
PHONE: (513) 287-4663

**GAS**  
2. CINCINNATI GAS AND ELECTRIC COMPANY  
593 TODD-HUNTER ROAD  
MONROE, OHIO 45050  
ATTN: RON ASHBROCK  
PHONE: (513) 287-4663

**TELEPHONE**  
3. CINCINNATI BELL, INC.  
201 EAST 4TH STREET, RM 103-1125  
CINCINNATI, OHIO 45202  
ATTN: EMERSON ADKINS  
PHONE: (513) 566-8025

**CABLE**  
4. WARNER CABLE  
11252 CORNELL PARK DRIVE  
CINCINNATI, OHIO 45242-1886  
ATTN: DON BONKOWSKI  
PHONE: (513) 489-5945

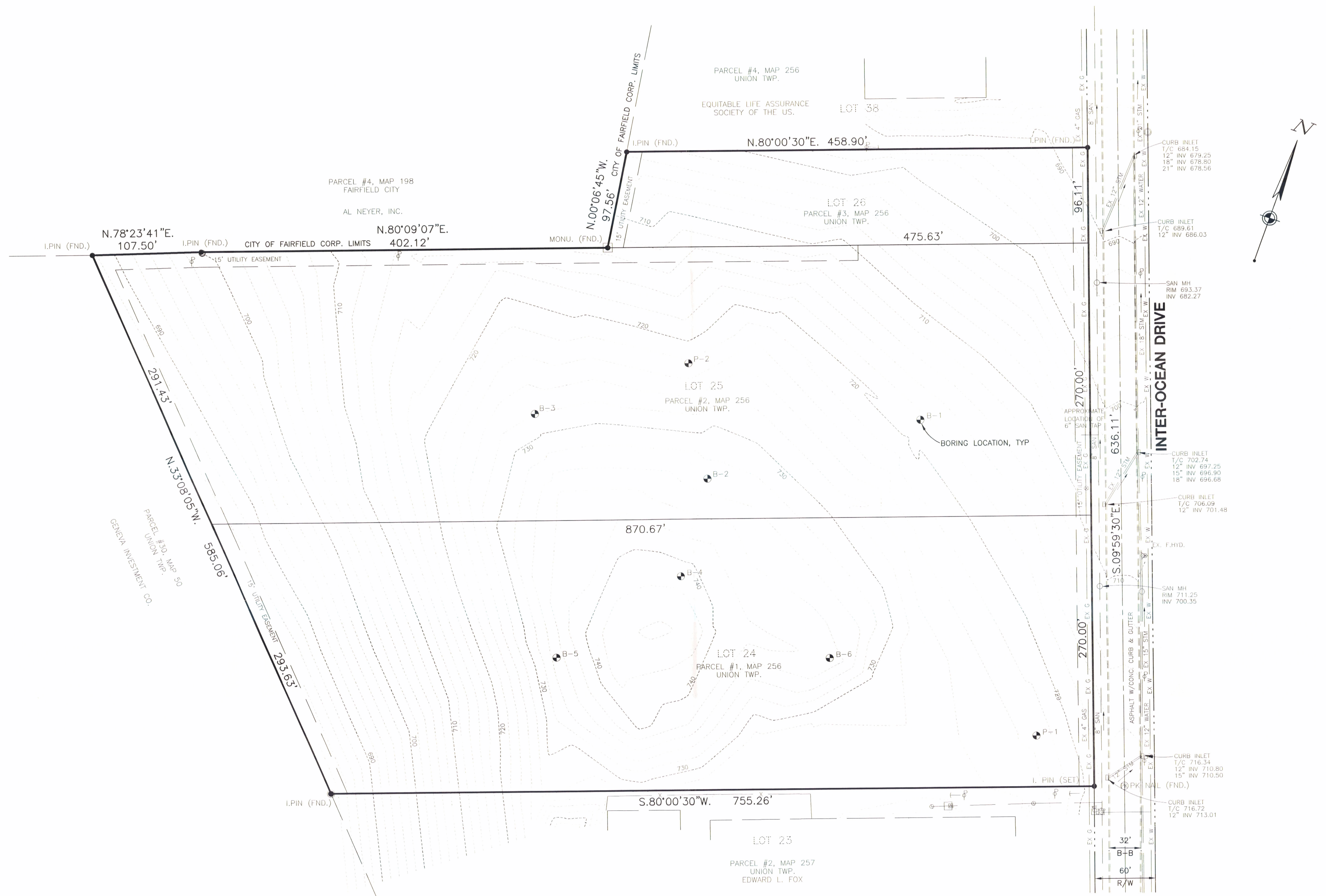


REVISED

No.	DATE	REVISION
4	3/11/99	REVISIONS PER B.C. ENGR. COMMENTS
	2/18/99	ISSUED FOR PERMIT APPLICATION
3	2/16/99	REVISED GRADING AT SW COR. OF PROP. AND FRONT PARKING LOT
2	1/19/99	RAISED FIN. FLR. TO 725.50, CLIENT REVISIONS
1	1/11/99	RAISED FIN. FLR. TO 725.00, INTERNAL Q.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

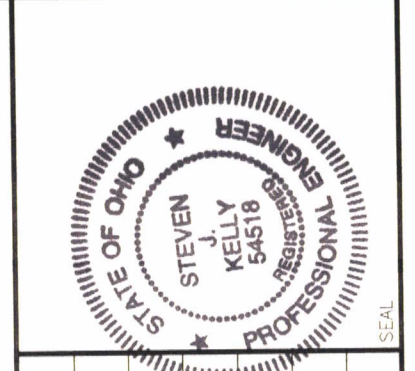
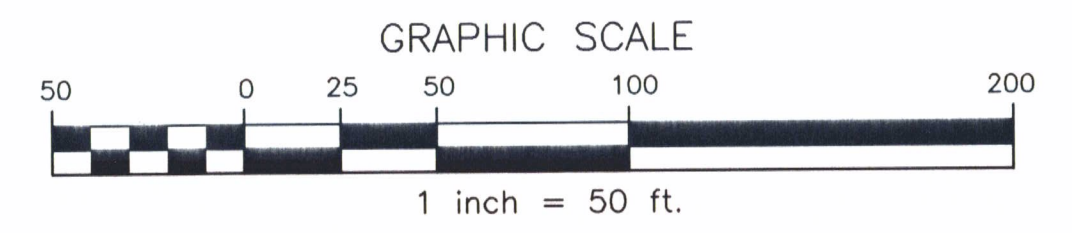
PROJECT No.:  
56249.02

**C1.1**  
FILE



- NOTES:**
1. PROPERTY IS LOCATED IN COMMERCE PARK - TRI-COUNTY, UNION TOWNSHIP, BUTLER COUNTY, OHIO. AREA = 11.8 AC.±
  2. EXISTING ZONING: M-2 GENERAL INDUSTRIAL DISTRICT.
  3. TOPOGRAPHY SHOWN WAS DEVELOPED FROM FIELD INFORMATION OBTAINED BY WOOLPERT, LLP, 12-18-98.
  4. SANITARY AND STORM SEWER INFORMATION TAKEN FROM AS-BUILT INFORMATION PROVIDED BY THE BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES AND ENGINEER'S OFFICE.
  5. SOIL BORING LOCATIONS WERE FIELD LOCATED 12-18-98 AND ARE LABELED PER THE REPORT PREPARED BY ALT & WITZIG, DATED NOV. 14, 1998.

2 WORKING DAYS  
 BEFORE YOU DIG  
 CALL TOLL FREE 800-362-2764  
 OHIO UTILITIES PROTECTION SERVICE

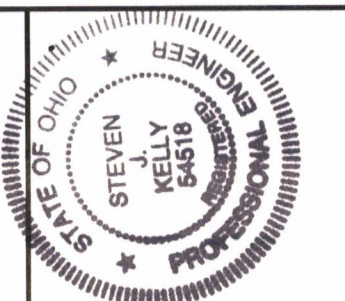


PROJECT No:	DATE	REVISION
56249.02	12/16/98	
DATE 12/16/98	SCALE 1"=50'	DES. LWS
DR. TMB	CKD. SJK	

WOOLPERT LLP  
 4141 Rosslyn Drive  
 Cincinnati, Ohio  
 45209  
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 FAX: 513.272.8301

**RPS PACKAGE DISTRIBUTION CENTER**  
**INTEROCEAN DRIVE**  
 UNION TOWNSHIP  
 BUTLER COUNTY, OHIO  
**EXISTING CONDITIONS PLAN**

SHEET NO.  
**C12**  
 FILE



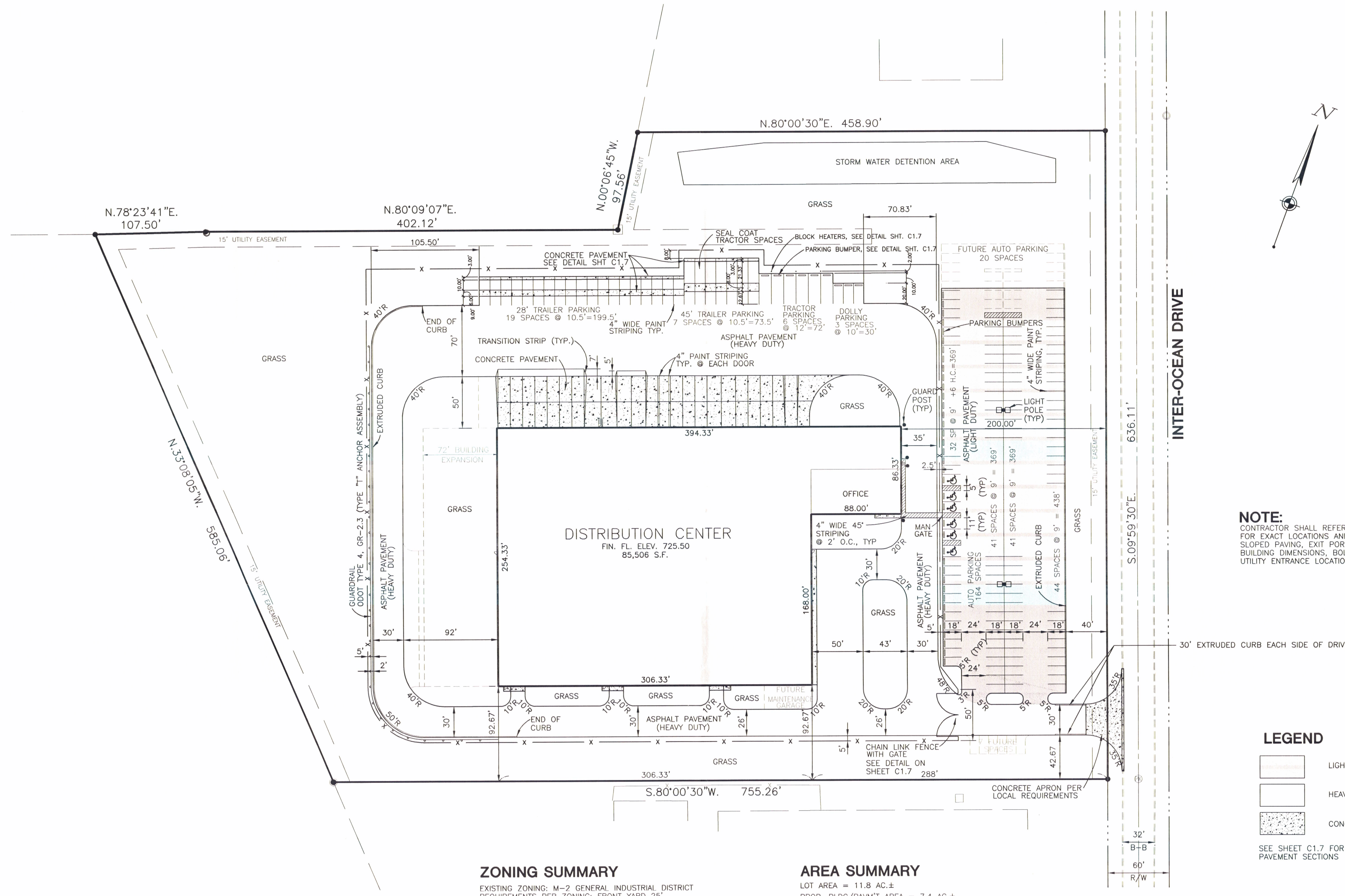
No.	DATE	REVISION
4	3/11/99	REVISIONS PER B.C. ENGR. COMMENTS
3	2/18/99	ISSUED FOR PERMIT APPLICATION
2	1/16/99	ADJUSTED FRONT PARKING LOT
1	1/11/99	CLIENT REVISIONS
	1/11/99	RAISED FIN. FLR. TO 725.00, INTERNAL C.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

PROJECT No: 56249.02  
 DATE 12/16/98  
 SCALE 1"=50'  
 DES. LWS  
 DR. TMB  
 CKD. SUK

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**RPS PACKAGE DISTRIBUTION CENTER**  
**INTER-OCEAN DRIVE**  
 UNION TOWNSHIP  
 BUTLER COUNTY, OHIO  
**SITE PLAN**

SHEET NO.  
**C13**  
 FILE

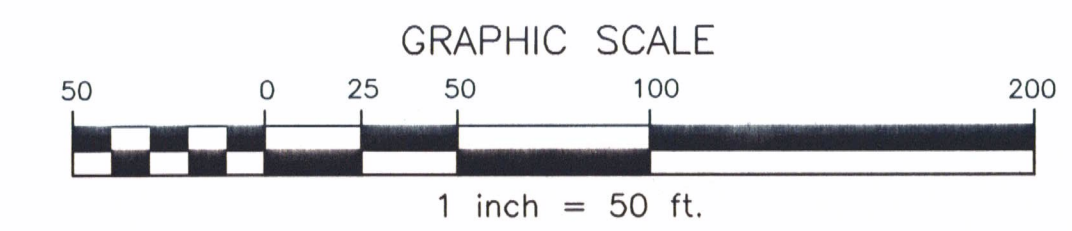


**NOTE:**  
 CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS, DOORS, PRECISE BUILDING DIMENSIONS, BOLLARDS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

**LEGEND**

- LIGHT DUTY PAVING
- HEAVY DUTY PAVING
- CONCRETE PAVING

SEE SHEET C1.7 FOR PAVEMENT SECTIONS



**ZONING SUMMARY**

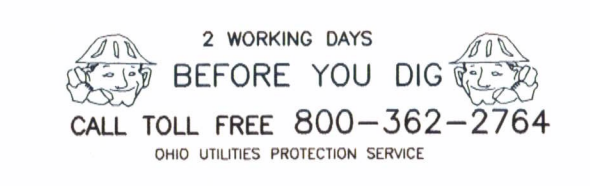
EXISTING ZONING: M-2 GENERAL INDUSTRIAL DISTRICT  
 REQUIREMENTS PER ZONING: FRONT YARD 25'  
 SIDE YARD 5'  
 REAR YARD 40'  
 LOT COVERAGE 85%

**AREA SUMMARY**

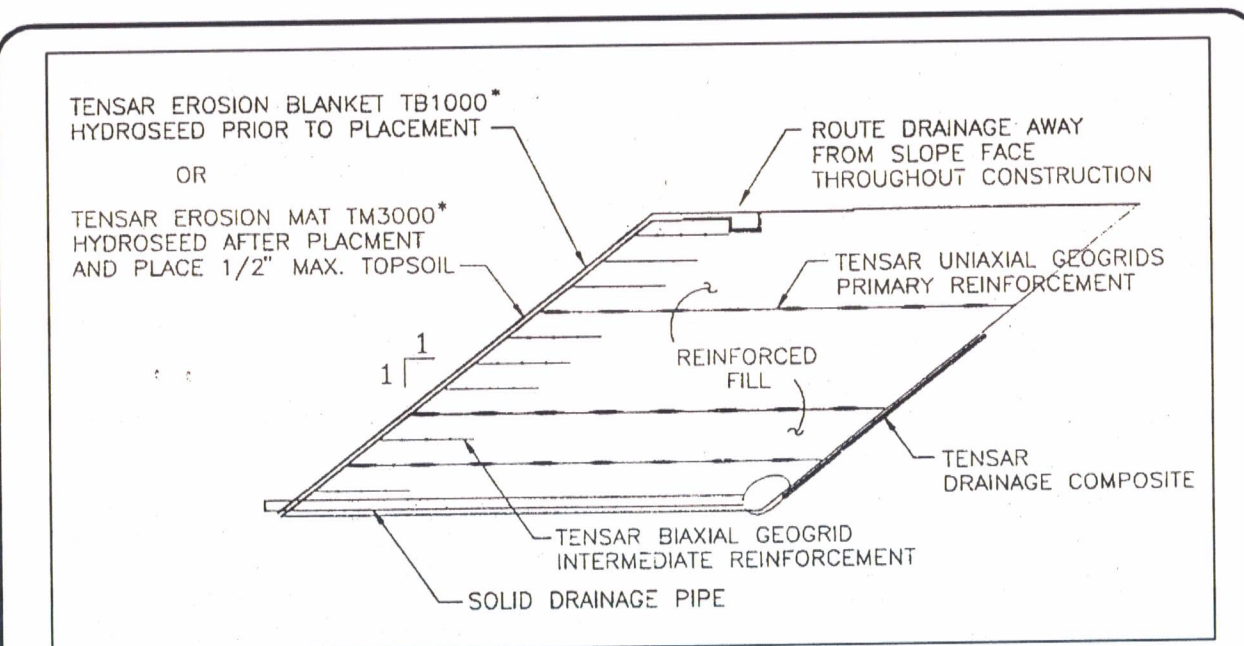
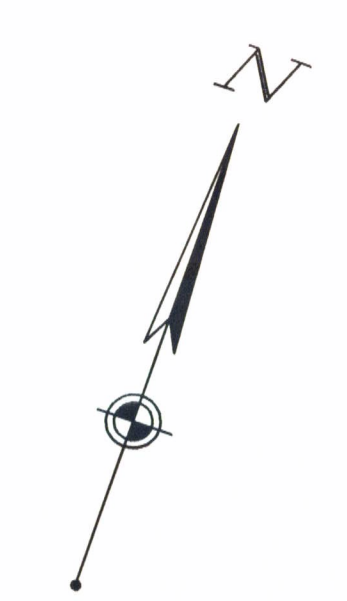
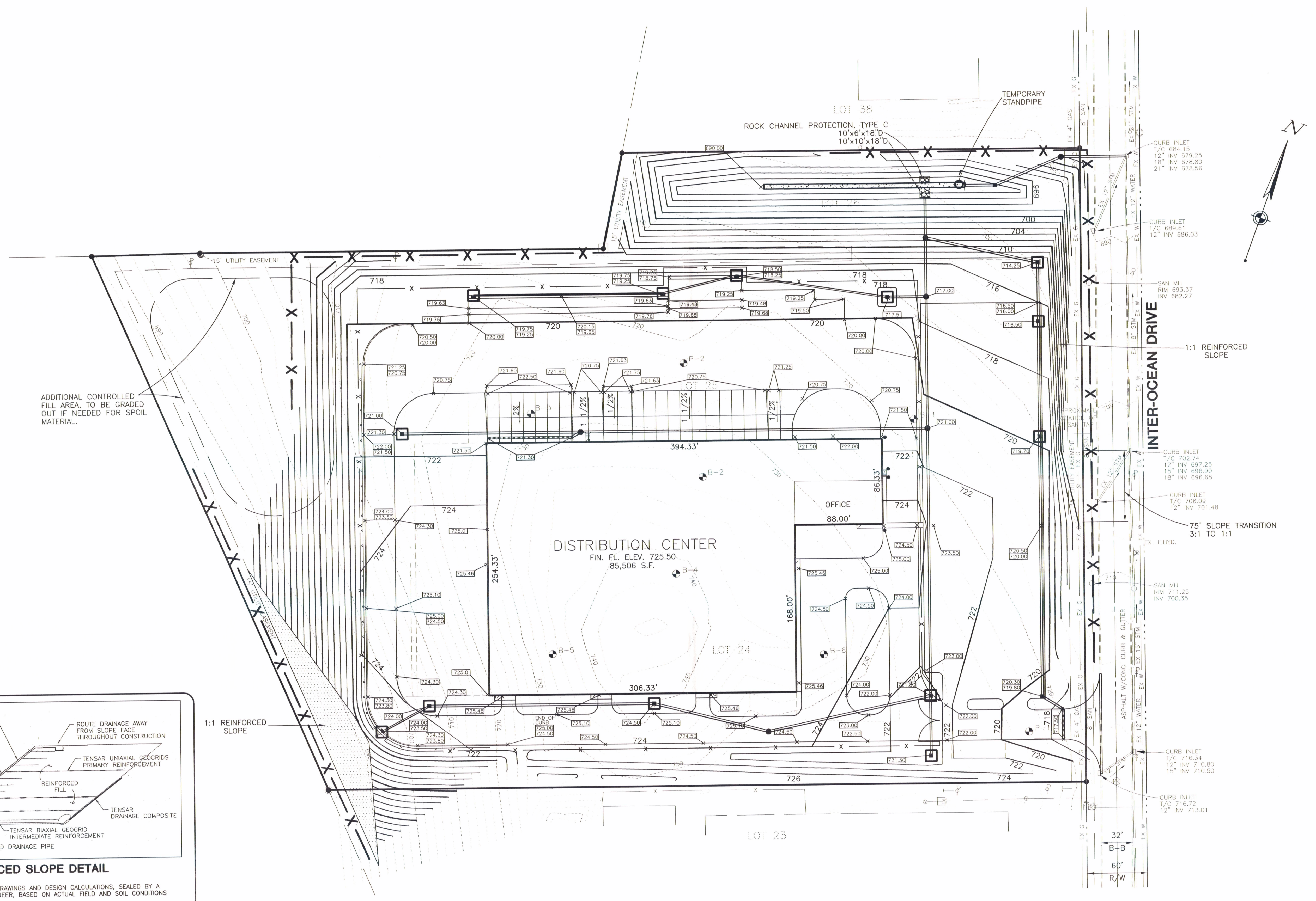
LOT AREA = 11.8 AC.±  
 PROP. BLDG/PAV'T AREA = 7.4 AC.±  
 PROPOSED LOT COVERAGE = 63%

**PARKING SUMMARY**

PARKING REQUIRED = 86 SPACES (105 FUTURE)  
 (1 PER 1000 S.F. GROSS FLR. AREA)  
 PARKING PROVIDED = 164 SPACES (191 FUTURE)



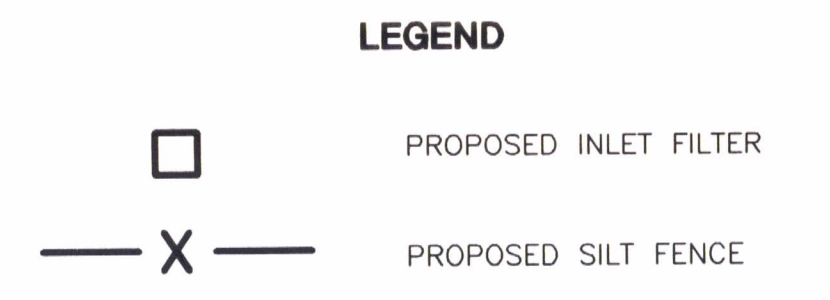
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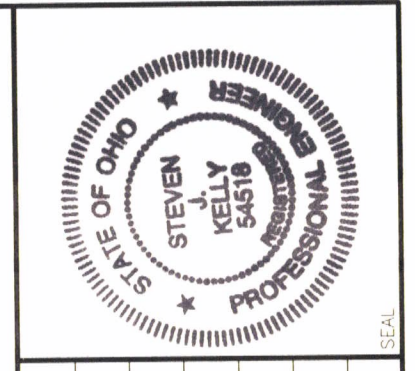
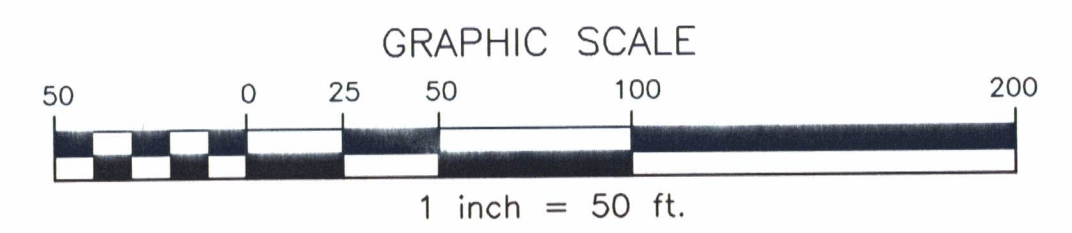
**REINFORCED SLOPE DETAIL**

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER, BASED ON ACTUAL FIELD AND SOIL CONDITIONS TO THE ENGINEER FOR APPROVAL.
2. EXTERNAL STABILITY, SETTLEMENT, GLOBAL STABILITY, BEARING CAPACITY, AND THEIR EFFECTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE PRELIMINARY DESIGN, AS SHOWN ON THE PLANS, IS BASED ON A MATERIAL WITH AN INTERNAL ANGLE OF FRICTION 30 DEGREES AND A MOIST UNIT OF 120 pcf AND THAT THE FOUNDATION IS STABLE.
4. POSITIVE DRAINAGE IS TO BE PROVIDED BY THE CONTRACTOR TO ASSURE THERE IS NO POREWATER PRESSURE WITHIN THE SLOPE.

PRELIMINARY DESIGN:  
 MAX. SLOPE HEIGHT = 36'  
 MAX. PRIMARY REINFORCEMENT SPACING = 4'  
 MAX. INTERMEDIATE REINFORCEMENT SPACING = 1'  
 PRIMARY EMBEDMENT LENGTH AT TOP = 23'  
 PRIMARY EMBEDMENT LENGTH AT BOTTOM = 31'  
 INTERMEDIATE EMBEDMENT LENGTH = 6' MIN.



2 WORKING DAYS  
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NO.	DATE	REVISION
2	2/16/99	ISSUED FOR PERMIT APPLICATION
3	2/16/99	REVISED GRADING AT SW COR. OF PROP. & FRONT PARKING LOT
2	1/19/99	RAISED FIN. FL. TO 725.50, ADDITIONAL SPOT SHOTS
1	1/11/99	RAISED FIN. FL. TO 725.00, ADJUSTED PROP CONTOURS
	12/30/98	ISSUED FOR PRICING

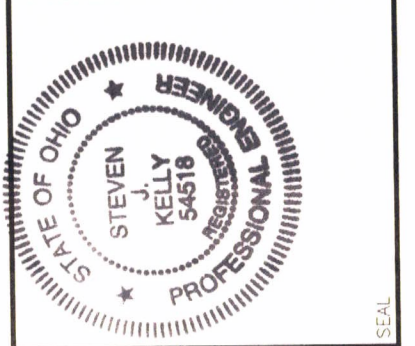
PROJECT No: 56249.02  
 DATE 12.16.98  
 SCALE 1"=50'  
 DES. LWS  
 DR. TMB  
 CKD. SJK

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**WOOLPERT**

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**GRADING PLAN**

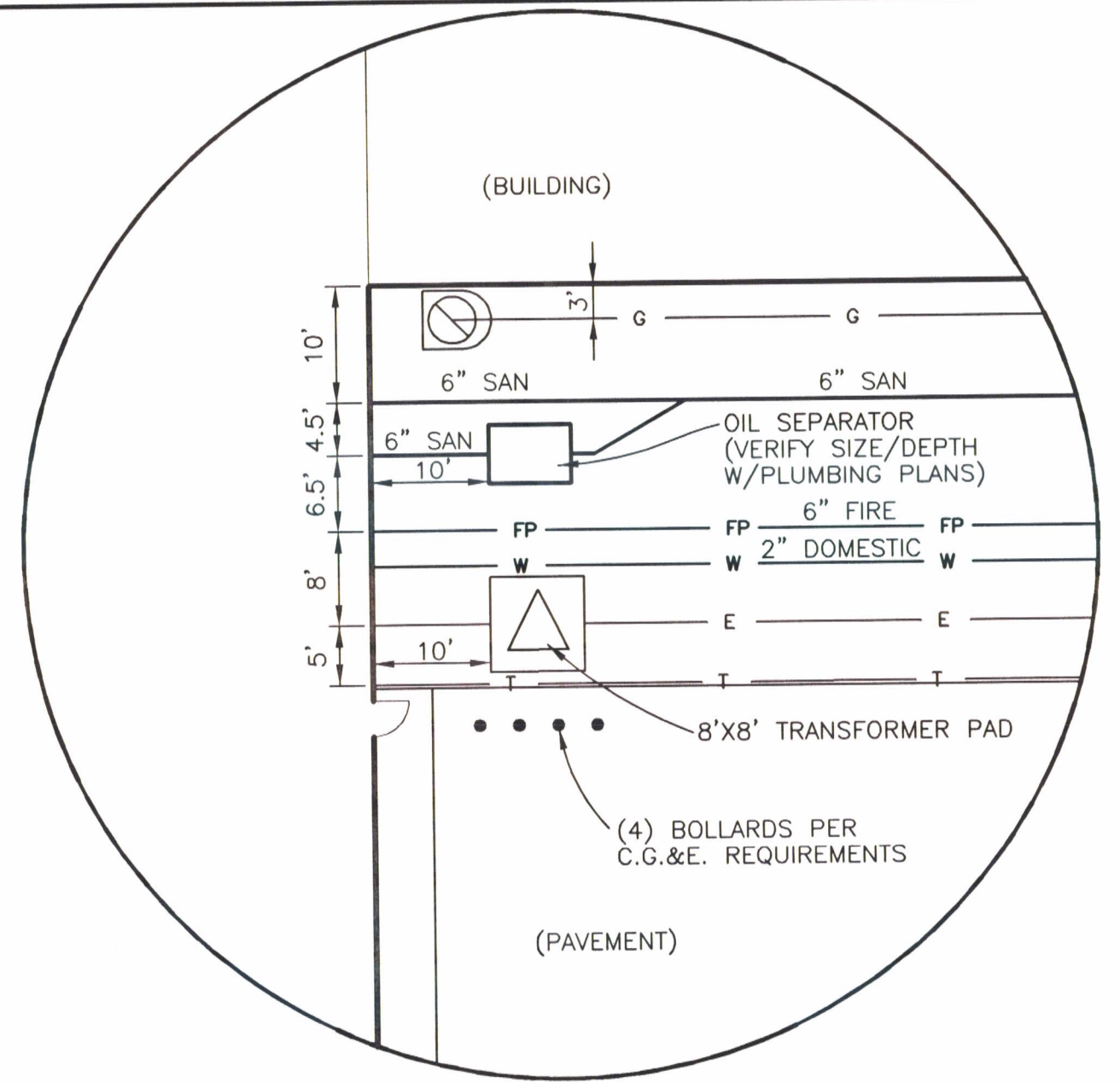


No.	DATE	REVISION
4	3/11/99	ISSUED FOR PERMIT APPLICATION
3	2/18/99	ADJUSTED FRONT PARKING LOT & STORM SEWER
2	1/19/99	RAISED FIN. FL. TO 725.50, ADJUSTED STORM SEWER
1	1/11/99	RAISED FIN. FL. TO 725.00, ADJUSTED STORM SEWER

PROJECT No: 56249.02  
 DATE: 12/16/98  
 SCALE: 1"=50'  
 DES: LWS  
 DR: TMB  
 CKD: SJK

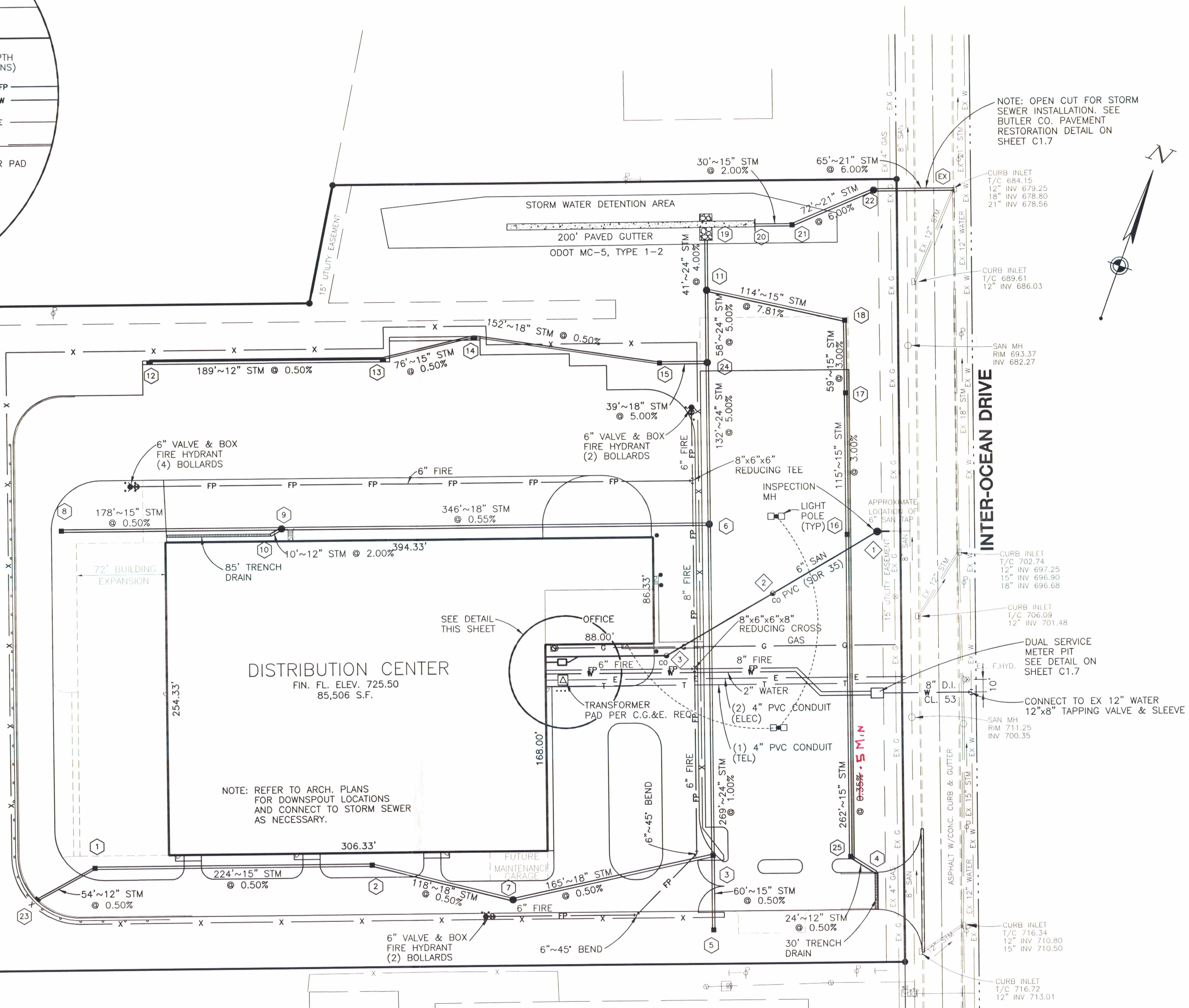
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RPS PACKAGE DISTRIBUTION CENTER  
 INTER-OCEAN DRIVE  
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 BUTLER COUNTY, OHIO  
 UTILITY PLAN  
 SHEET NO. C15



STRUCT NUMBER	TYPE RIM/GRATE	INVERT IN	INVERT OUT
23	CB 3A 723.50	-	12" E 720.50
1	CB 2-2B 724.00	12" W 720.23	15" E 719.98
2	CB 2-2B 724.50	15" W 718.86	18" E 718.61
3	CB 2-3 721.80	18" W 717.20	24" N 716.70
4	TRENCH 717.50	-	12" N 714.71
5	CB 2-3 721.30	-	15" N 717.75
6	MH-3 721.00	18" W 714.46	24" N 714.01
7	MH-3 724.80	18" W 718.02	18" E 718.02
8	CB 2-2B 721.00	-	15" E 717.50
9	MH-3 721.50	12" S 717.90	18" E 716.36
10	TRENCH 721.30	-	12" N 718.30
11	MH-3 708.00	15" E 699.30	24" N 692.64
12	CB 3A 719.25	-	12" E 715.75
13	CB 3A 719.25	12" W 714.81	15" E 714.56
14	CB 3A 718.25	15" W 714.18	18" E 713.93
15	CB 2-3 717.50	18" W 713.17	18" E 711.21
24	MH-3 717.00	18" W 709.26	24" N 701.45
16	CB 2-3 719.70	15" S 713.42	15" N 713.42
17	CB 2-3 716.50	15" S 709.97	15" N 709.97
18	CB 2-3 714.25	15" S 708.20	15" W 708.20
19	HW-1	-	24" N 691.00
20	HW-1	-	15" E 689.00
21	CB 2-3 695.50	15" W 688.40	21" E 687.90
22	MH-3 690.00	21" W 683.58	21" E 683.15
EX	CB 684.15	21" W 679.25	21" N 678.56
25	CB 2-2B 719.80	12" S 714.59	15" N 714.34

STRUCT NUMBER	TYPE RIM/GRATE	INVERT IN	INVERT OUT
1	MH 709.00	6" W 702.00	6" E 695± (FIELD VERIFY)
2	CO 721.80	6" W 708.50	6" E 708.50
3	CO 725.00	6" W 715.00	6" E 715.00

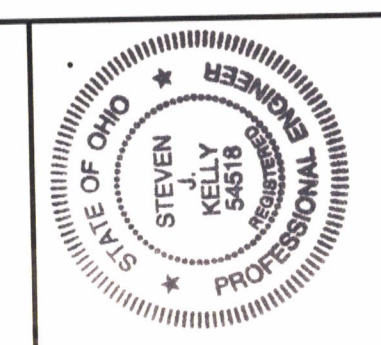


- NOTES:
- 1) ALL STRUCTURE TYPES REFER TO ODOT STANDARD DRAWINGS.
  - 2) ALL STORM SEWER SHALL BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, ODOT 707.33, EXCEPT THE SPAN CROSSING INTER-OCEAN DR. WHICH SHALL BE ALUMINUM SPIRAL RIBBED PIPE, ODOT 707.24.
  - 3) ALL ON-SITE FIRE PROTECTION PIPING SHALL BE C-900 PVC, ODOT 748.02.
  - 4) DETENTION OUTLET STRUCTURE #21 SHALL HAVE (2) TWO WINDOWS (6"Hx48"W) AT ELEVATION 694.50.
  - 5) SEE SHEET C1.6 FOR TRENCH DRAIN DETAIL.
  - 6) ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN FOUR (4') FEET SHALL BE PROVIDED WITH STEPS.
  - 7) THERE SHALL BE A MINIMUM TEN (10') FEET HORIZONTAL AND EIGHTEEN (18") INCHES VERTICAL SEPARATION BETWEEN WATER MAIN AND SANITARY AND/OR STORM SEWER.
  - 8) ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH ITEMS 203 AND 603 IN THE STATE SPECIFICATIONS.
  - 9) BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN AND SANITARY SEWER REPAIRS.
  - 10) BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING MANHOLES, VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF ANY GRADE CHANGES.

2 WORKING DAYS  
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GRAPHIC SCALE  
 1 inch = 50 ft.

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PROJECT No: 56249.01  
 DATE 12/29/98  
 SCALE AS SHOWN  
 DES. LWS  
 DR. MGR  
 CKD. SJK

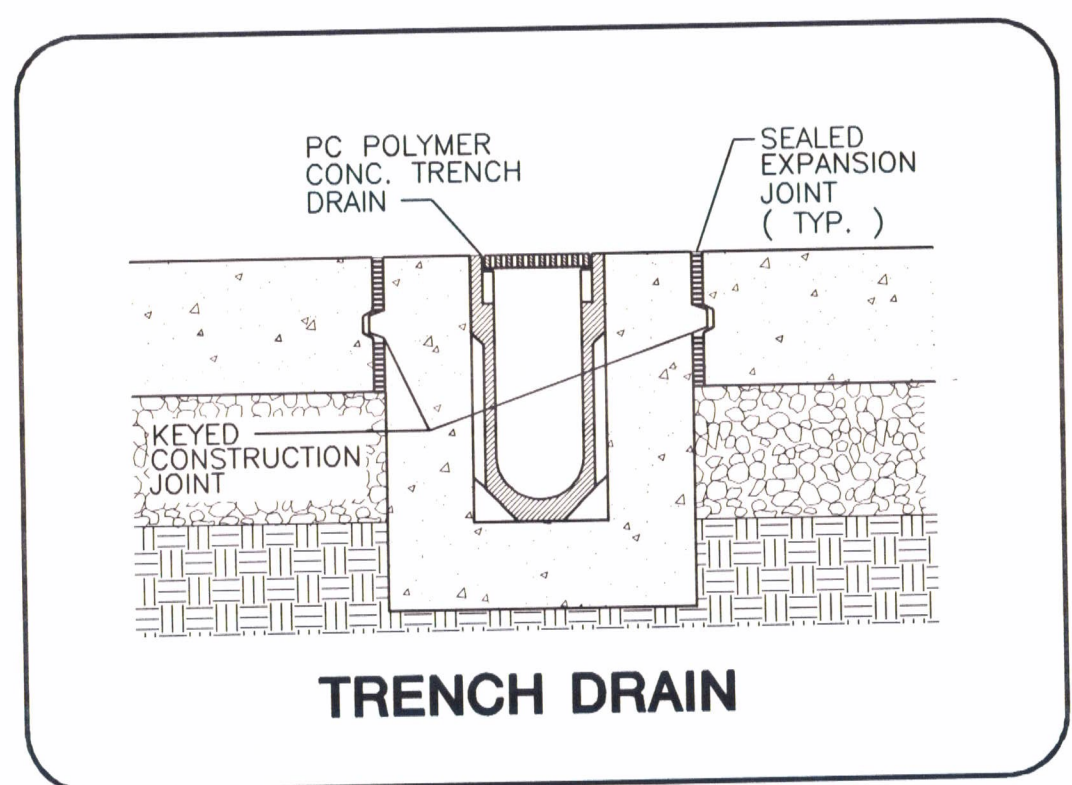
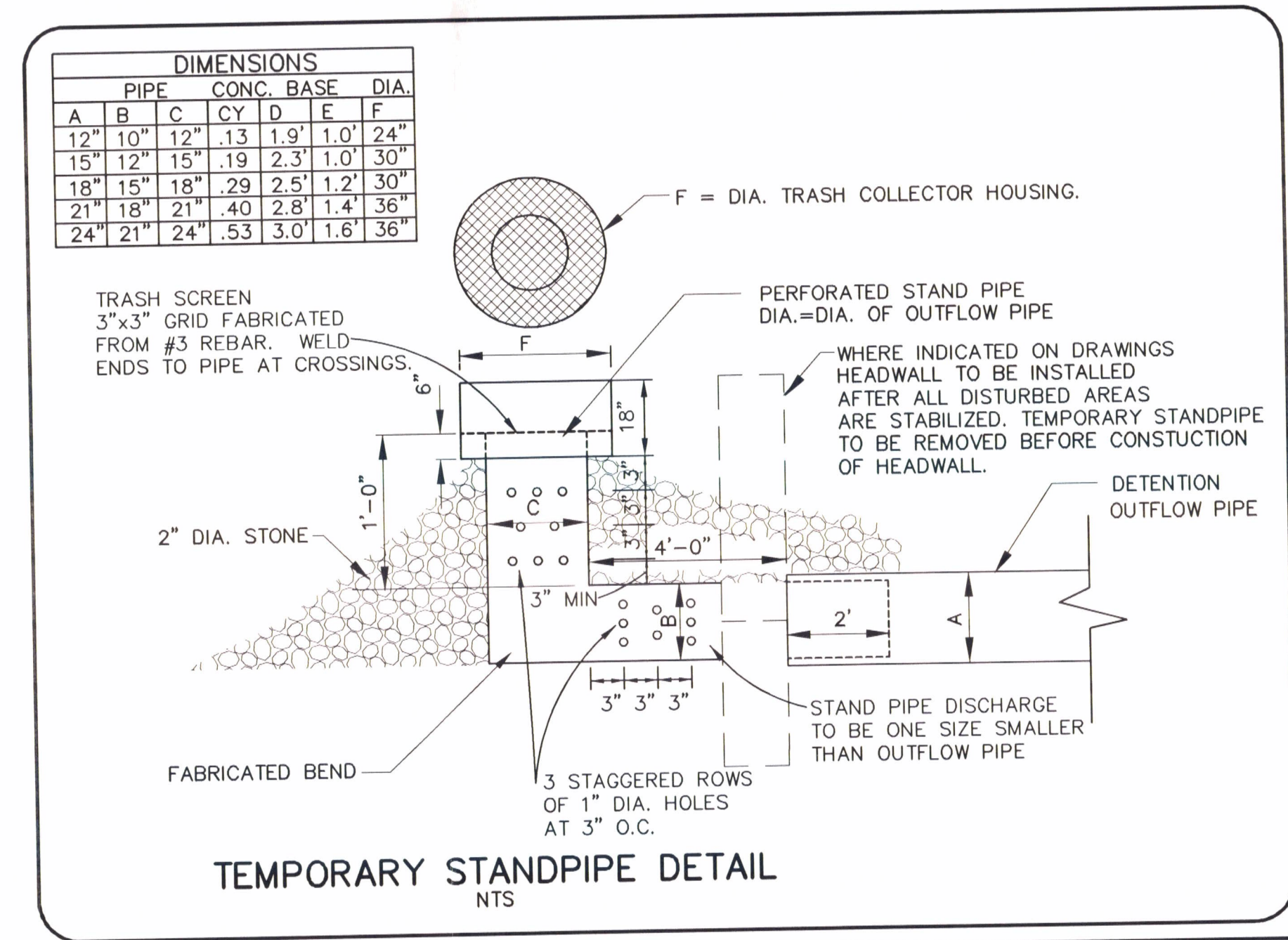
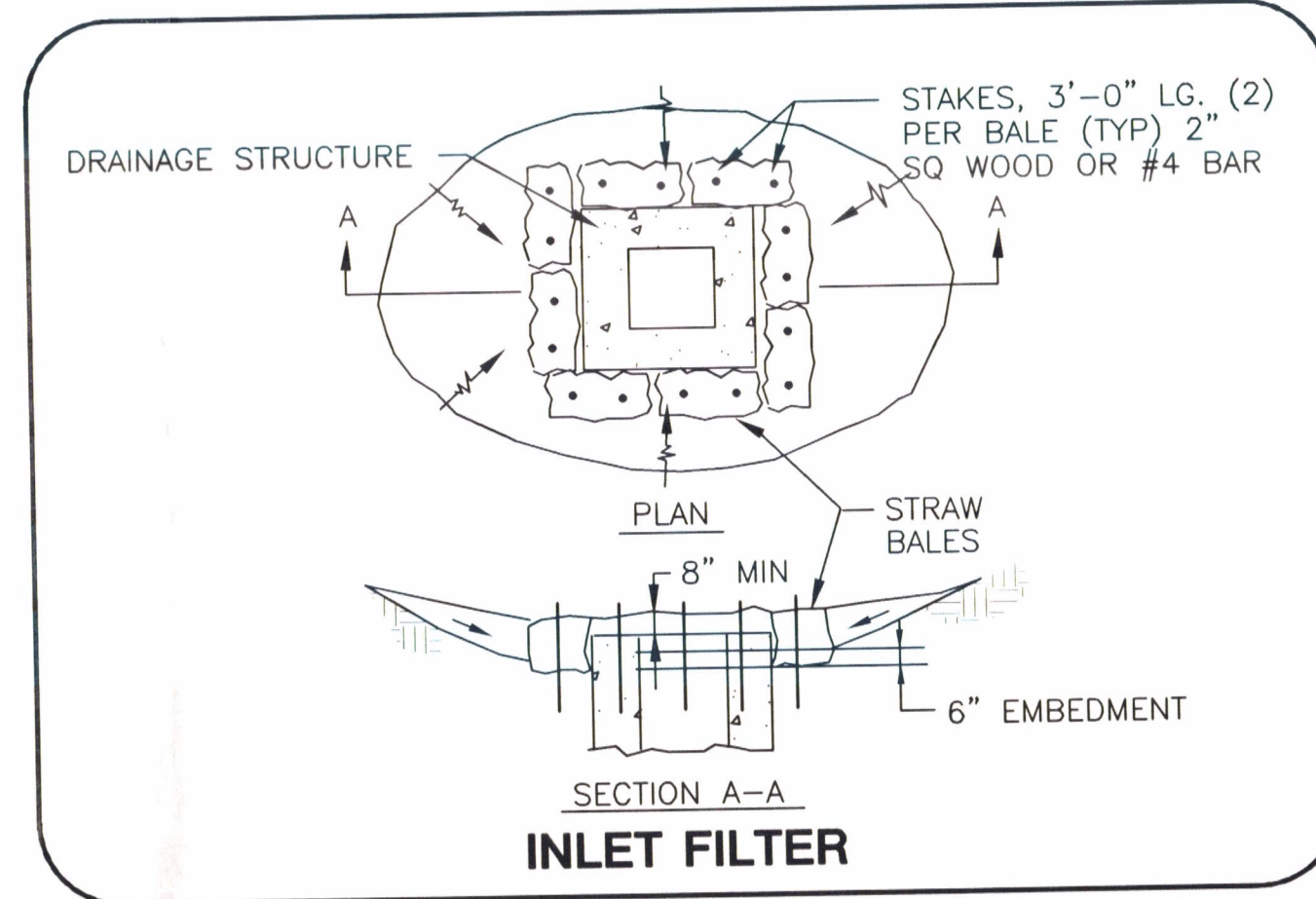
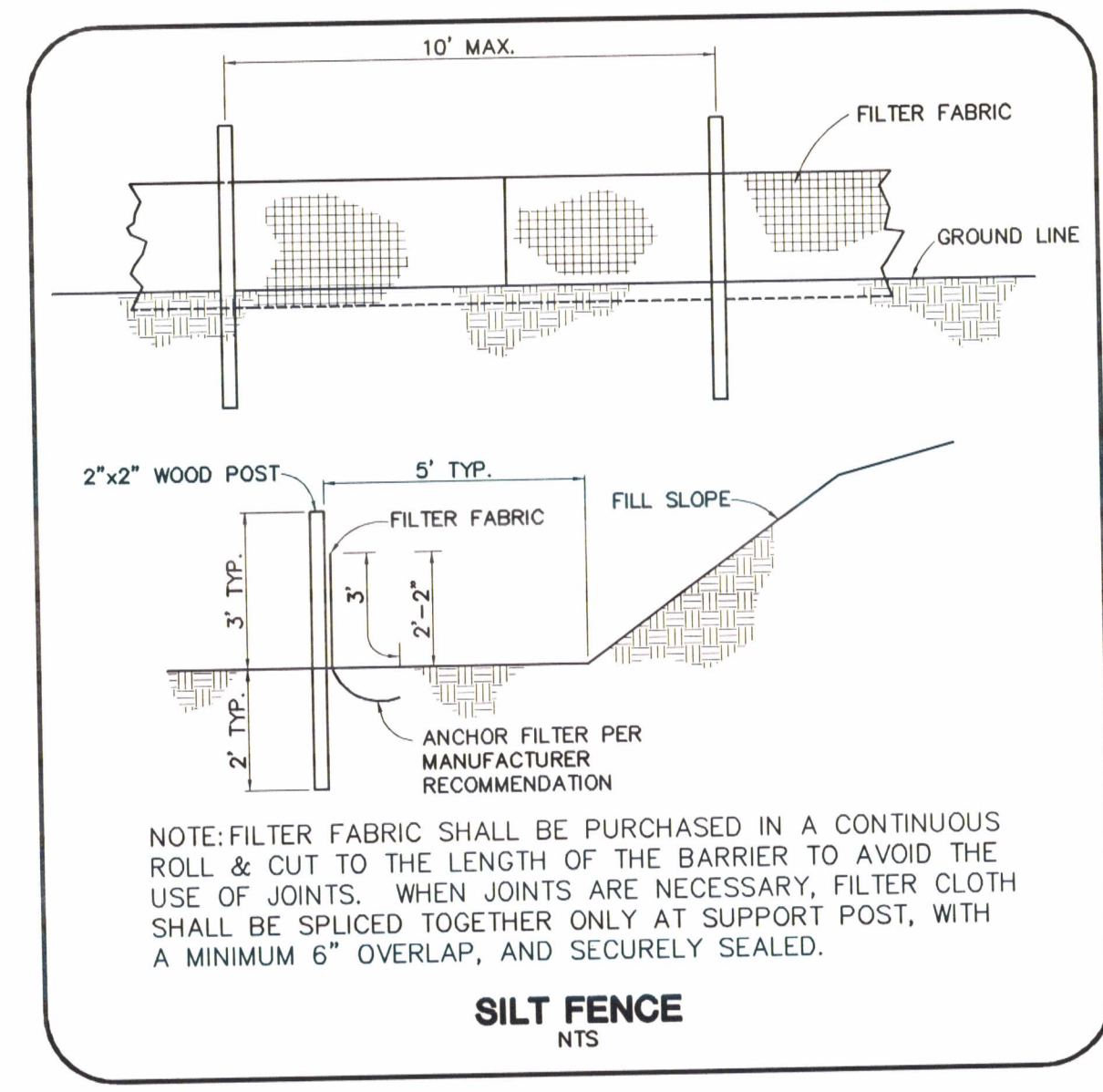
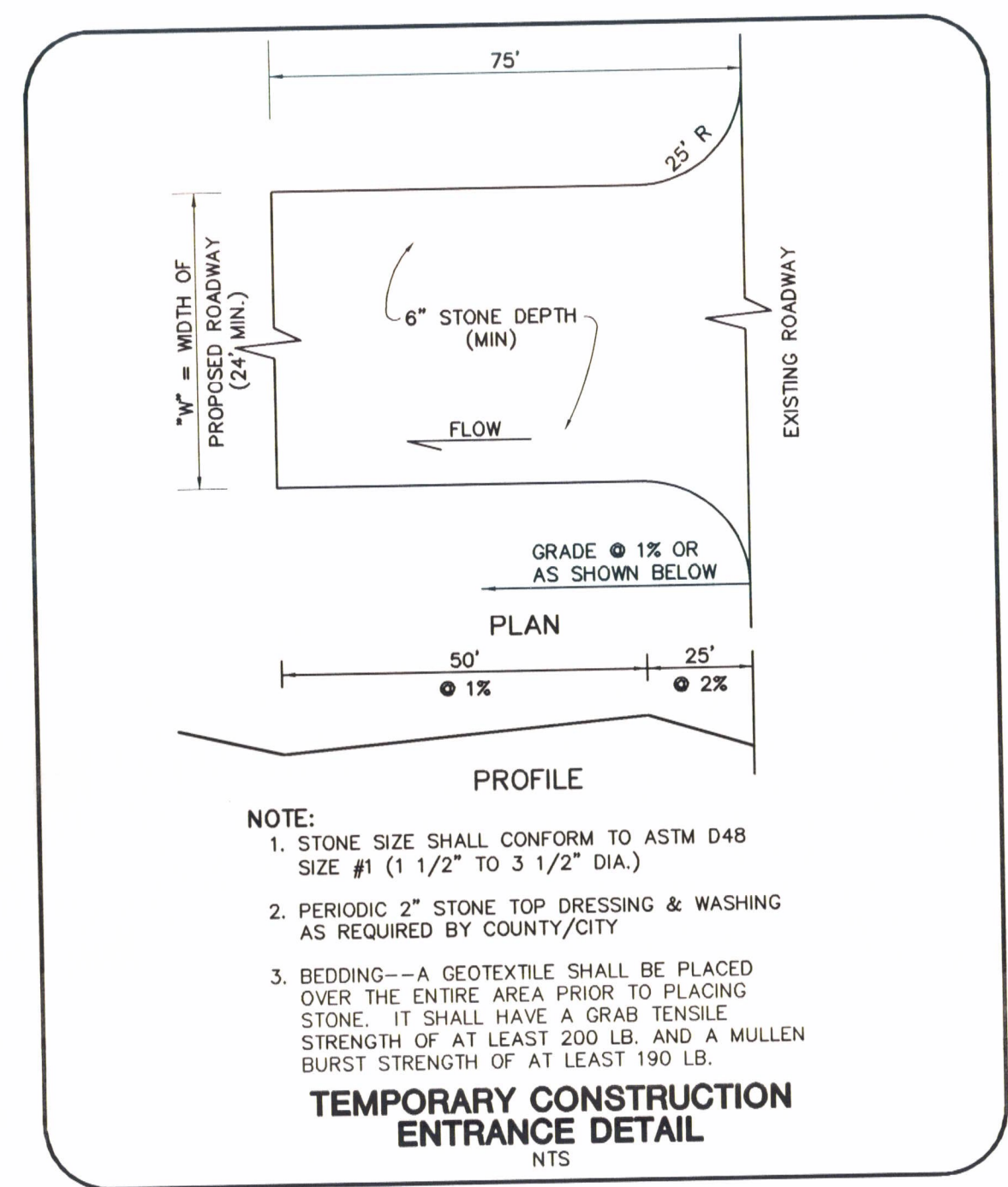
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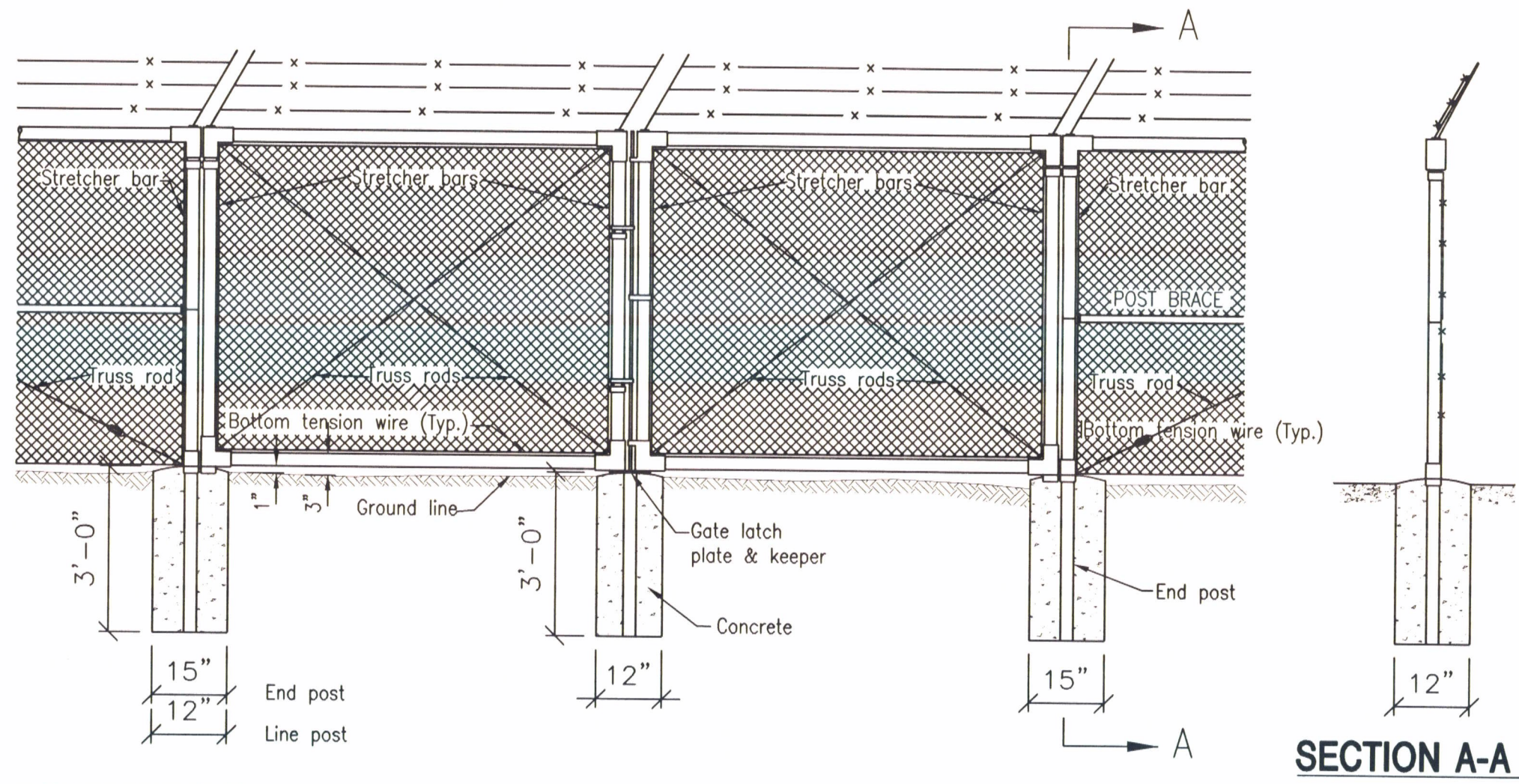
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**C16**  
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SOIL EROSION / SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE/SEDIMENT CONTROL												
TEMP. CONTROL MEASURES												
STORM FACILITIES												
TEMP. CONSTRUCTION ROADS												
FOUNDATION/BLDG. CONSTRUCTION												
SITE CONSTRUCTION												
PERM. CONTROL MEASURES												
FINISH GRADING												
LANDSCAPING												

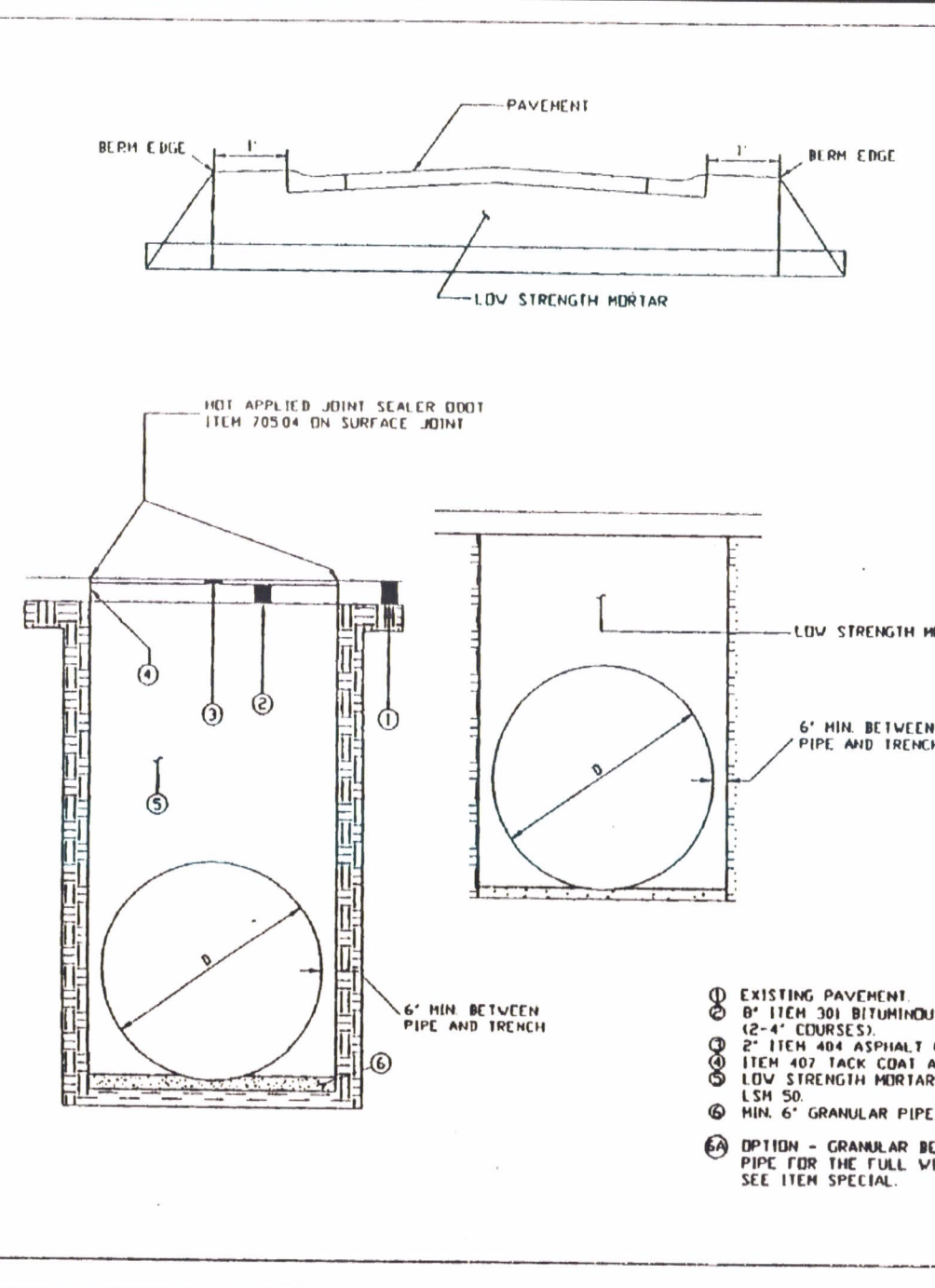


- EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH OEPA'S GENERAL PERMIT FOR CONSTRUCTION**
- THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN (GRADING/EROSION CONTROL PLAN AND EROSION CONTROL DETAILS) SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, STRAW BALES, SEDIMENT BASINS, ETC. AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING DISTURBED FOR MORE THAN 14 DAYS.
  - THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
  - PUBLIC OR PRIVATE ROADWAYS SHALL BE CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
  - ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH STRAW BALES, FILTER FABRIC, OR EQUIVALENT BARRIERS AS SHOWN ON THESE PLANS.
  - EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS TO REMAIN INACTIVE FOR MORE THAN 45 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN (7) DAYS. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED.
  - THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
  - DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE SOIL CONSERVATION SERVICE MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS."
  - ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE SOIL CONSERVATION SERVICE MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS."
  - EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
  - POST-CONSTRUCTION STORM WATER MANAGEMENT: EACH LOT SHALL HAVE ADEQUATE VEGETATION AND LANDSCAPING TO FILTER POLLUTANTS AS MUCH AS PRACTICAL. LOCAL LAWS REGARDING THE DISCHARGING OF OIL AND OTHER POLLUTANTS INTO STORM SEWERS OR DRAINAGEWAYS SHALL APPLY.
  - ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE NPDES PERMITS.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
  - THIS EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
  - CONSTRUCTION ENTRANCE SHALL BE 50'x12' OF 6" ODOT ITEM 703, No. 1 AGGREGATE, ALL CONSTRUCTION TRAFFIC SHALL USE THIS ENTRANCE.



- CHAIN LINK FENCE TO BE AS FOLLOWS:
- EIGHT FOOT HIGH, NO. 9 FABRIC, 2" DIAMOND MESH- HOT DIP GALVANIZED
  - THREE STRANDS BARBED WIRE ON ANGLE BRACKETS- BARBED WIRE TO BE 4 POINT, 2 STRAND - 12 1/2 GA. GALVANIZED.
  - LINE POSTS TO BE 2 1/2" O.D., 3.65 LB/FT., GALVANIZED.
  - CORNER, PULL AND END POSTS TO BE 3" O.D., 4 LB/FT., GALVANIZED.
  - GATE POSTS TO BE 4" O.D. 5.79 LB/FT. - GALVANIZED.
  - TOP RAIL TO BE 1 5/8" O.D., 2.27 LB/FT. - GALVANIZED.
  - POSTS TO BE 10' ON CENTER MAX. SET IN 36" DEEP CONCRETE BASES.
  - GATES TO AS SHOWN ON SITE PLAN AND FABRICATED FROM 2" OR GREATER TUBES, 2.72 LB/FT. - GALVANIZED - INCLUDING PIVOT HINGES, CATCHES, STOPS, CENTER VESTS AND LOCKING FACILITIES.
  - BOTTOM TENSION WIRE REQUIRED ON FENCE.

**FENCE AND GATE DETAIL**



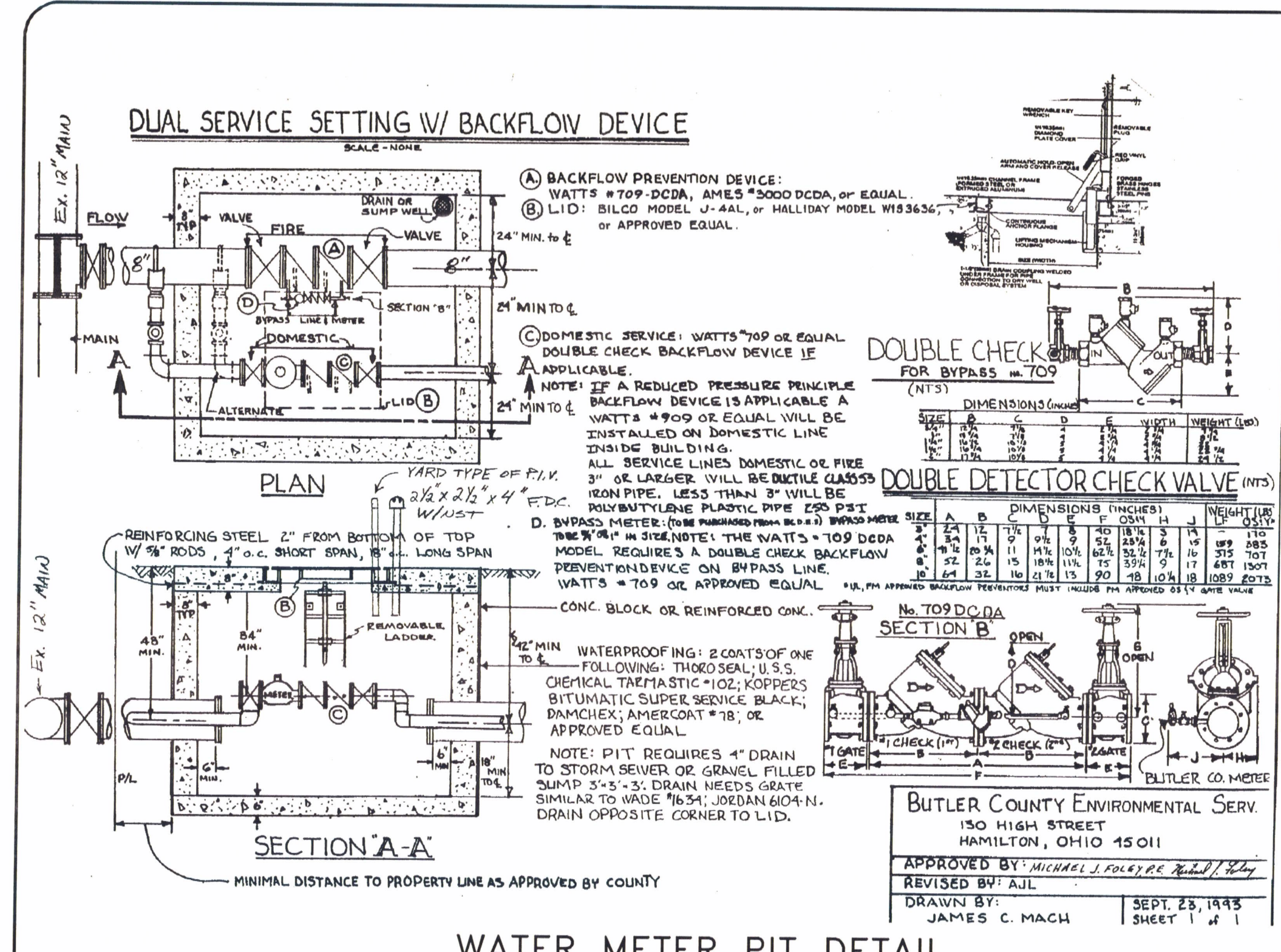
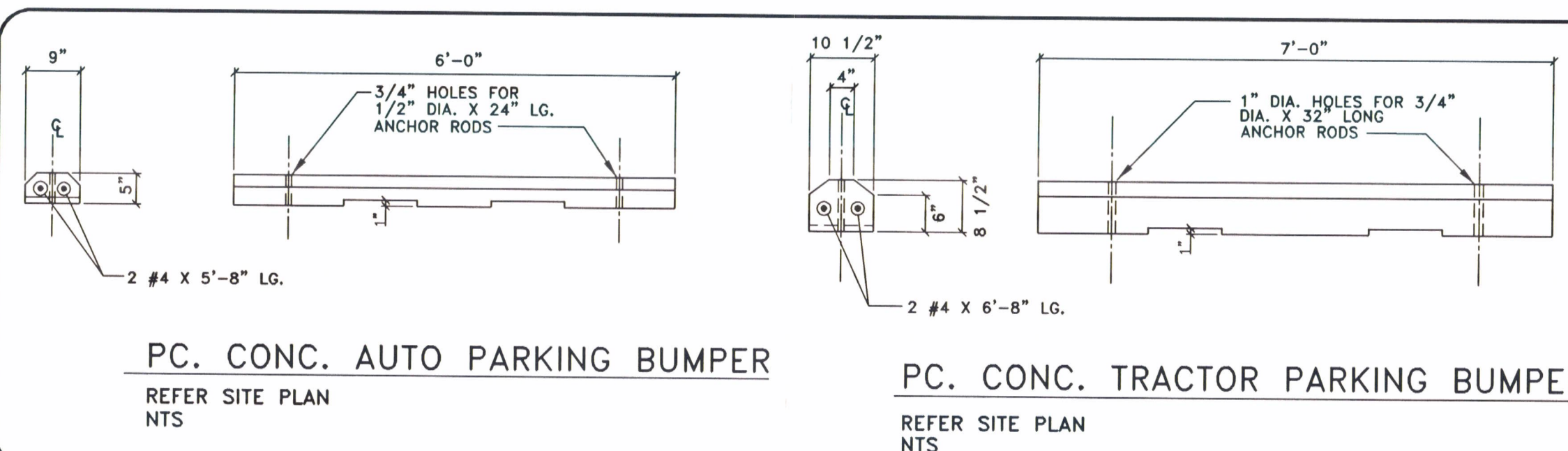
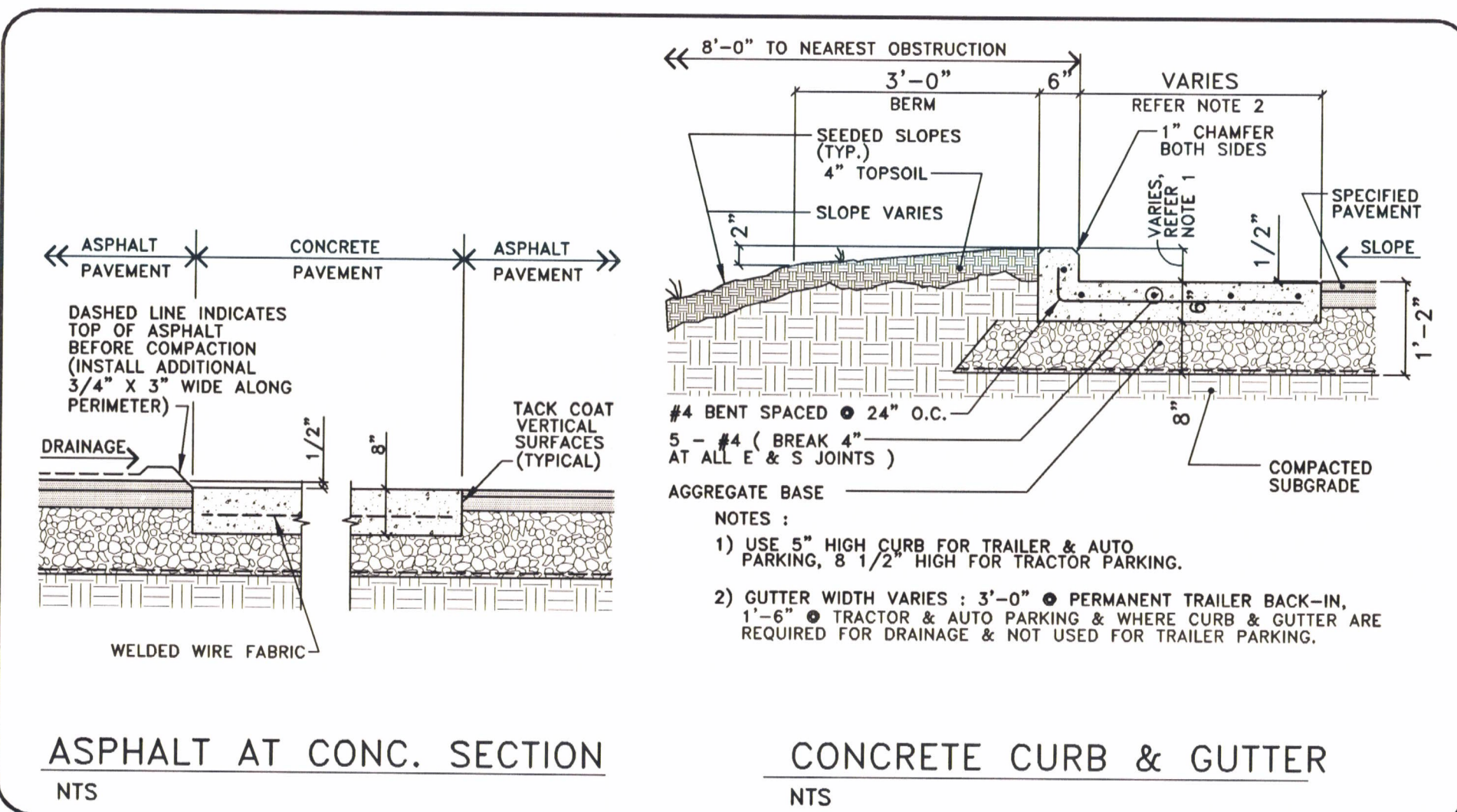
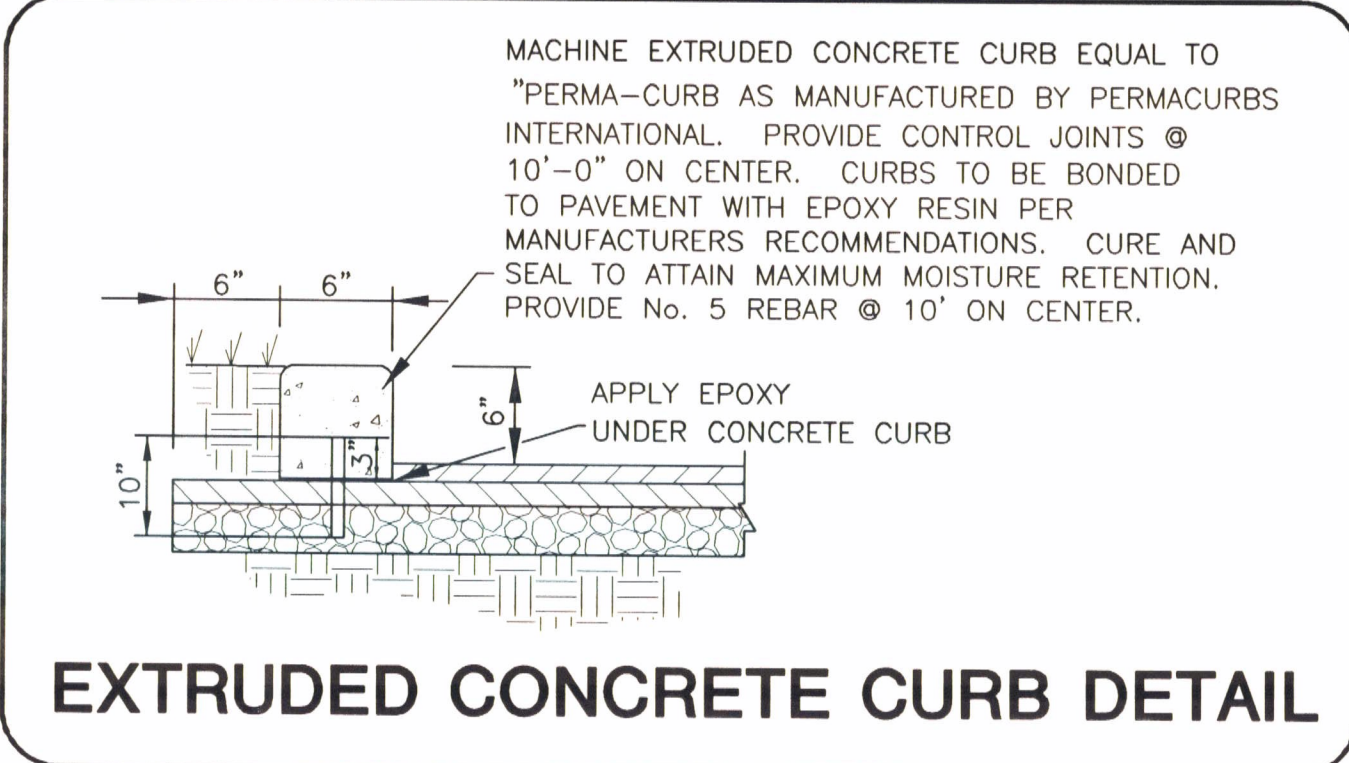
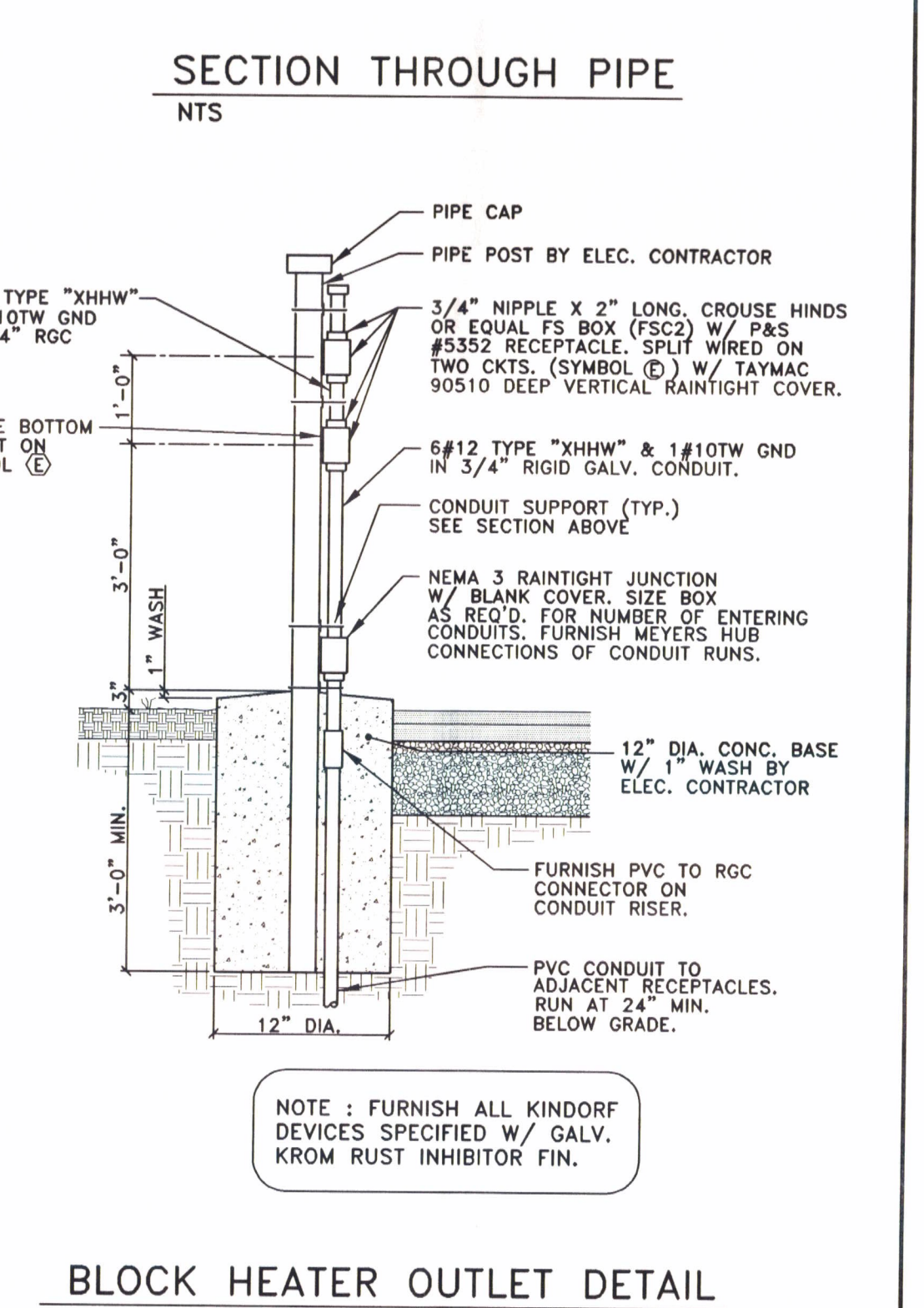
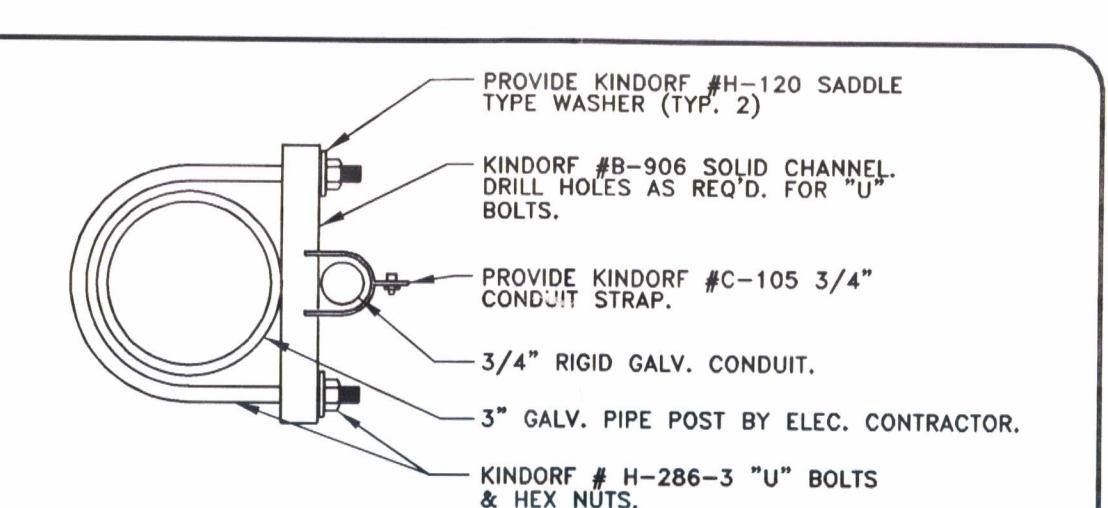
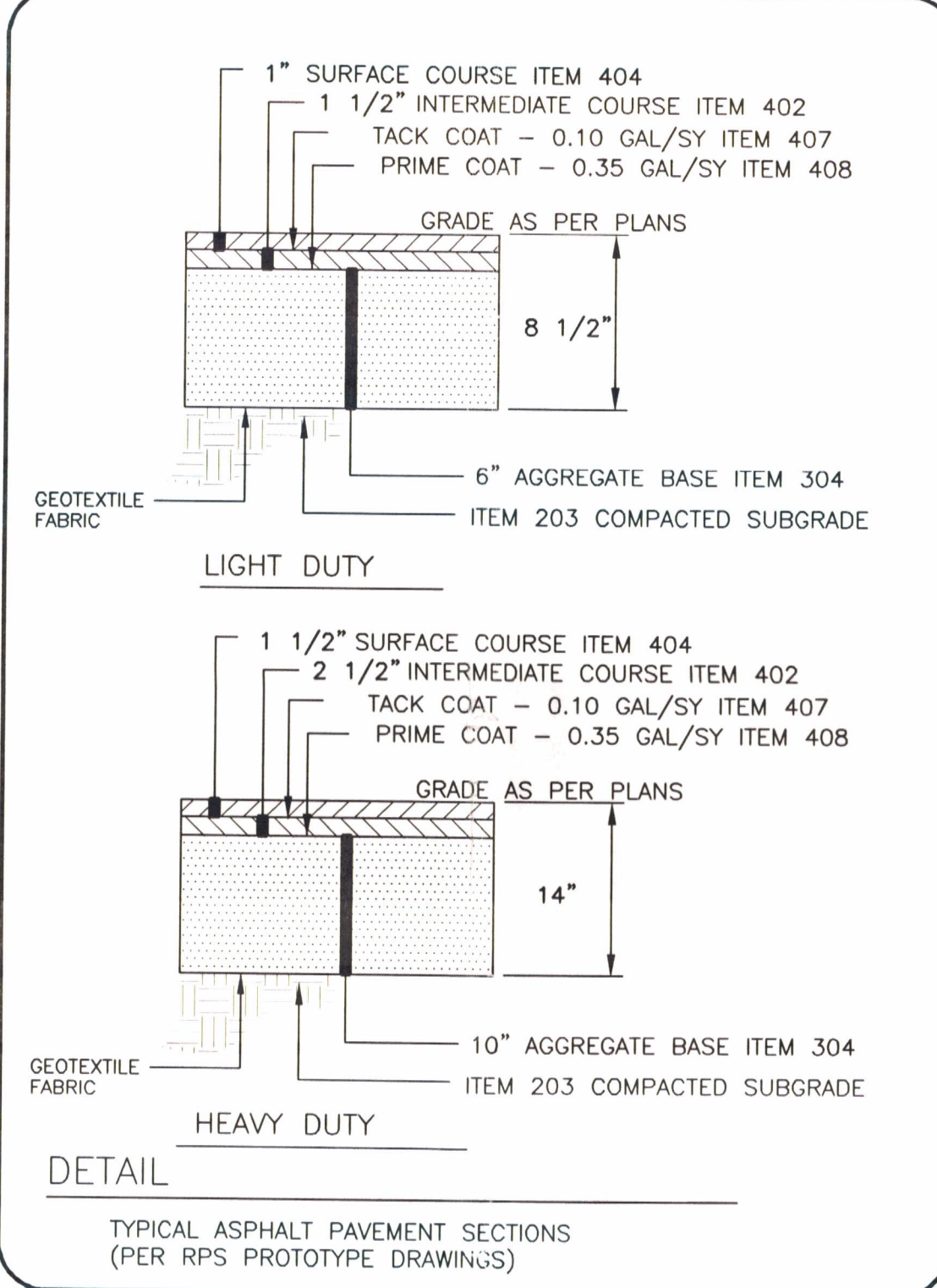
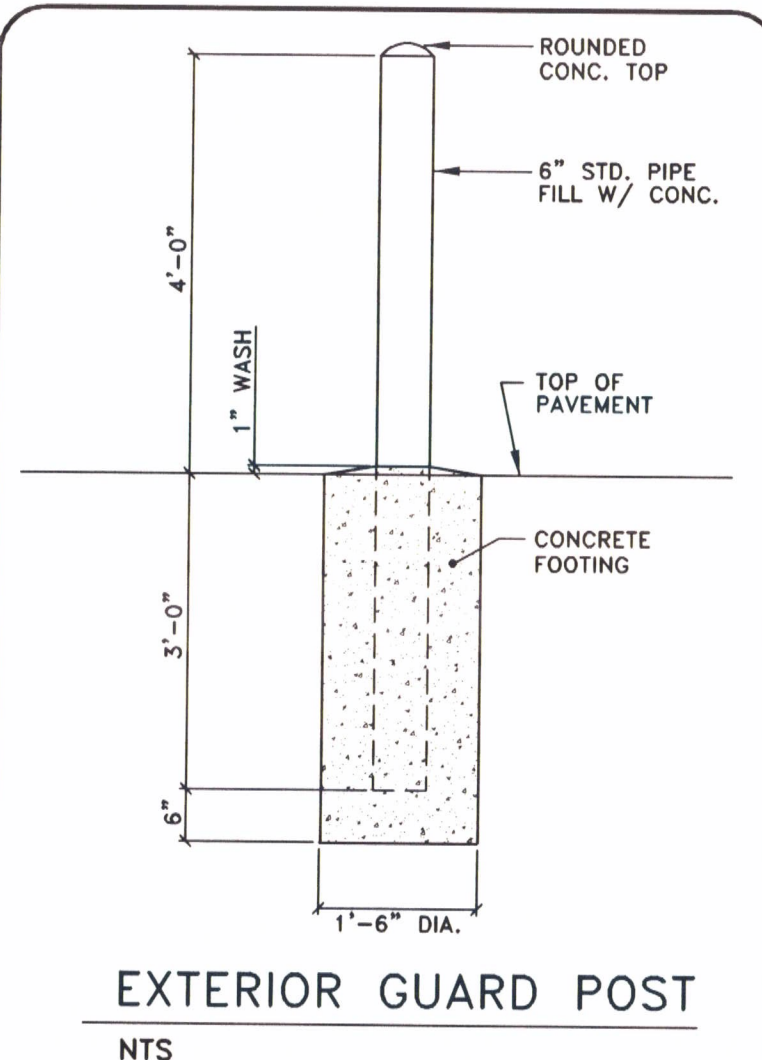
DESCRIPTION THIS WORK SHALL CONSIST OF THE PLACEMENT OF A FLOWABLE MIXTURE OF PORTLAND CEMENT, FLY ASH AND SAND FOR BACK-FILLING CONDUIT OR AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS SPECIFIED. THE MIXTURE SHALL BE IN ACCORDANCE WITH ITEMS 503 AND 499 UNLESS OTHERWISE SPECIFIED HEREIN.

MATERIALS MATERIALS SHALL BE:

- CEMENT - 70101 OR 70104
- FLY ASH SHALL MEET ASTM C-681
- THE AGGREGATE SHALL BE NEUTRAL SAND OR SAND MANUFACTURED FROM STONE GRAVEL OR AIR-COOLED SLAG. THE GRANULOMETER OF THE SAND SHALL MEET THE REQUIREMENTS OF 70103. THE SAND SHALL BE FINE ENOUGH TO FLOW THROUGH THE CONDUIT. THE SAND SHALL BE FINE ENOUGH TO FLOW THROUGH THE CONDUIT. THE SAND SHALL BE FINE ENOUGH TO FLOW THROUGH THE CONDUIT. THE SAND SHALL BE FINE ENOUGH TO FLOW THROUGH THE CONDUIT.
- WATER USED FOR MORTAR BACKFILL SHALL BE FREE FROM OIL, ACID, STRONG ALKALIS OR VEGETABLE MATTER.
- SLOPES MEASURED IN THE ORDINARY WAY WILL BE 8" HIGHER FOR PROPER PLACEMENT OF THE FLOWABLE MATERIAL.

MORTAR MIX PROPORTIONING THE INITIAL TRIAL MIXTURE SHALL CONSIST OF THE FOLLOWING QUANTITIES OF MATERIALS PER CUBIC YARD:

REVISIONS	DATE	DESCRIPTION
1	C-27	PAVEMENT RESTORATION ROADWAY (TYP)



NO.	DATE	REVISION
3	2/18/99	ISSUED FOR PERMIT APPLICATION
2	2/18/99	REVISED PAVEMENT SECTIONS TO RPS PROTOTYPE
1	1/19/99	CLIENT REVISIONS, ADDED FENCE DETAIL
	1/11/99	INTERNAL Q.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

PROJECT NO: 56249.01  
 DATE 12/29/98  
 SCALE AS SHOWN  
 DES. LWS  
 DR. MGR  
 CKO. SJK

WOOLPERT LLP  
 4141 Rosslyn Drive  
 Cincinnati, Ohio  
 45209  
 513.272.8300  
 FAX: 513.272.8301

RPS PACKAGE DISTRIBUTION CENTER  
 INTER-OCEAN DRIVE  
 UNION TOWNSHIP  
 BUTLER COUNTY, OHIO

CONSTRUCTION DETAILS

BUTLER COUNTY ENVIRONMENTAL SERV.  
 150 HIGH STREET  
 HAMILTON, OHIO 45011

APPROVED BY: MICHAEL J. POLYAK, P.E.  
 REVISED BY: AJL  
 DRAWN BY: JAMES C. MACH  
 SEPT. 23, 1995  
 SHEET 1 OF 1