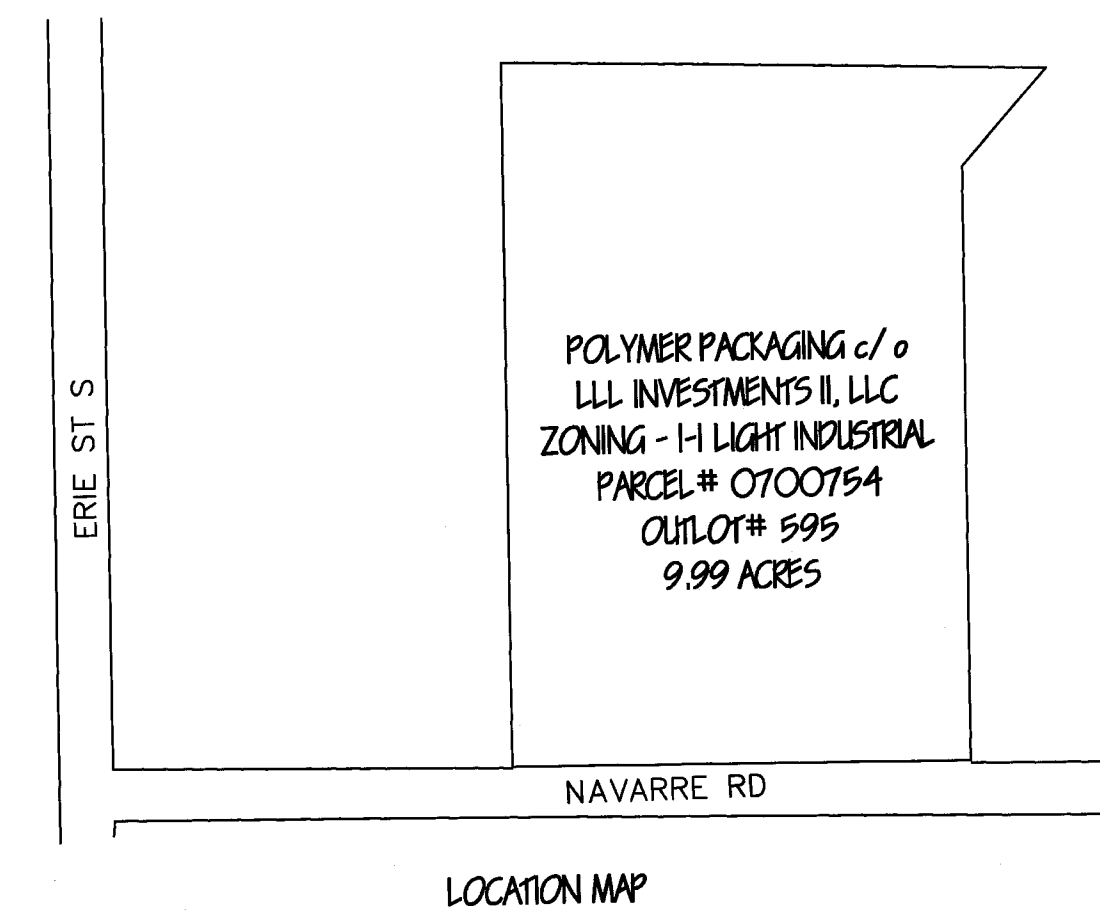


PROJECT NAME: PROJECT ADDRESS:	POLYMER PACKAGING 800 NAVARRE ROAD SW. MASSILLON, OH 44646	DESIGN LOADS: FLOOR DESIGN LOADS:	ROOMS = 40 PSF CORRIDORS = 100 PSF (81PSF UPPER FLOORS) ASSEMBLY AREAS = 100 PSF STORES & EXITS = 100 PSF DEAD LOAD DL = 50 PSF
PROJECT DESCRIPTION:	OFFICE ADDITION TO EXISTING MANUFACTURING BUILDING	ROOF DESIGN LOADS:	LIVE LOAD: LL = 30PSF DEAD LOAD: DL = 22 PSF NET UPLIFT: = 0 PSF SNOW LOAD: PF = 17.5 PSF + DRIFTING WHERE APPLICABLE GROUND SNOW LOAD: PG = 20 PSF SNOW EXPOSURE FACTOR: Ce = 0.7 SNOW LOAD IMPORTANCE FACTOR: Iq = 1.0 THERMAL FACTOR: Ct = 1.2 RAIN-ON-SURCHARGE: = 5 PSF
EXISTING BUILDING USE GROUP: NEW USE GROUP:	F-1 FACTORY INDUSTRIAL (MODERATE HAZARD) B-BUSINESS AND F-1 FACTORY INDUSTRIAL (MODERATE HAZARD) MIXED USE NON-SEPARATED		
ALLOWABLE SQUARE FOOTAGE: (A#1)	B = 25,000 SQ. FT. (4 STORY) F-1 = 15,500 SQ. FT. (2 STORY)		
EXISTING BUILDING CONSTRUCTION TYPE: NEW BUILDING CONSTRUCTION TYPE:	2B 2B		
EXISTING FLOOR AREA & USE:	EXISTING FIRST FLOOR = 72,000 SQ. FT. USE = F-1 EXISTING TOTAL AREA = 72,000 SQ. FT.		
NEW FLOOR AREA & USE:	NEW FIRST FLOOR = 15,060 SQ. FT. USE = B NEW SECOND FLOOR = 1,548 SQ. FT. USE = B ALTERNATE #1 ADD - BACK CANOPY = 926 SQ. FT. USE = B ALTERNATE #2 ADD - ENTRY/ CANOPY/ BALCONY = 1,059 SQ. FT. USE = B NEW TOTAL AREA = 16,369 SQ. FT.	WIND LOAD:	BASIC WIND SPEED (> SECOND QLEST) = 90 MPH WIND IMPORTANCE FACTOR Iw = 1.0 WIND EXPOSURE = B INTERNAL PRESSURE COEFFICIENT GCp1 = ± 0.18 WIND PRESSURE: WALLS & WINDOWS: TYPICAL = 15.4 PSF CORNER = 18.60 PSF ROOF: TYPICAL = 12.41 PSF EDGE = 15.40 PSF CORNER = 17.86 PSF
TOTAL FLOOR AREA (EXISTING & NEW):	88,369 SQUARE FEET TOTAL	SEISMIC DESIGN CRITERIA:	SEISMIC USE GROUP: I SEISMIC DESIGN CATEGORY: B SPECTRAL RESPONSE COEFFICIENT: Sd = 0.16 Ssb = 0.21 SITE CLASS = D - STIFF SOIL PROFILE BASIC SEISMIC FORCE RESISTING SYSTEM: ECCENTRICALLY BRACED FRAMES, MOMENT RESISTING RESPONSE MODIFICATION FACTOR: R = 25 DESIGN BASE SHEAR = 286.6 KIPS ANALYSIS PROCEDURE = SIMPLIFIED ANALYTIC PROCEDURE
UNLIMITED AREA BUILDING BUILDING HEIGHT: 2 STORIES BUILDING FULLY SPRINKLERED: YES SURROUNDED BY PUBLIC WAY OR YARD NOT LESS THAN 60 FEET EXTERIOR WALL FIRE RESISTANCE > 30 FEET = 0 HOUR FOR FLOOR GROUPS B AND F-1 UNLIMITED MAXIMUM AREA OF EXTERIOR WALL OPENINGS > 50 FEET 1 HOUR FIRE BARRIER WALL PROVIDED FOR STAIR/ ENTRY MANUAL FIRE ALARM NOT REQUIRED FOR USE GROUPS B AND F-1 (SPRINKLERED)			
BUILDING ADA# ACCESSIBLE:	YES		
NUMBER OF EMPLOYEES (ACTUAL): NUMBER OF PERSONS (ACTUAL):	48 PERSONS NEW OFFICE + 6 PERSONS EXISTING FACTORY = 54 PERSONS TOTAL ACTUAL 70 PERSONS NEW OFFICE + 6 PERSONS EXISTING FACTORY = 76 PERSONS TOTAL ACTUAL		
NEW USE GROUP B BUSINESS OCCUPANT LOAD: NEW USE GROUP F-1 WAREHOUSE OCCUPANT LOAD: TOTAL OCCUPANT LOAD: 500 PERSONS	16,369 SQUARE FEET @ 100 SQUARE FEET / PERSON = 164 PERSONS 24,000 SQUARE FEET @ 100 SQUARE FEET / PERSON = 240 PERSONS 48,000 SQUARE FEET @ 500 SQUARE FEET / PERSON = 96 PERSONS		



POLYMER PACKAGING
OFFICE BUILDING
800 NAVARRE ROAD
MASSILLON, OH 44646

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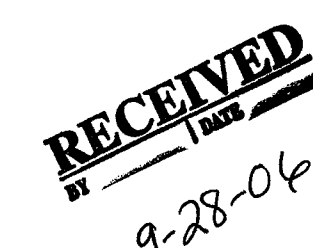
APPROVED BY THE MASSILLON CITY ENGINEER THIS 10th
DAY OF OCTOBER, 2006
K.A.T.C.
KEITH A. DYLEWSKI, PE

ONLY APPROVED SIGNED PLANS BY CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.

STRUCTURAL / CIVIL CONSULTANT	MECHANICAL CONSULTANT	ELECTRICAL CONSULTANT
BWL ENGINEERING 875 MAYFAIR ROAD AKRON, OHIO 44303 PHONE (330) 715-6226 FAX (330) 815-2224	STALEY MECHANICAL CONSULTING, INC. 302 SOUTH CHAPEL STREET P.O. BOX 191 LOUISVILLE, OHIO 44641 PHONE (330) 875-7344 FAX (330) 875-7345	STATE ELECTRICAL ENGINEERING 519 FOURTH STREET N.W., SUITE E CANTON, OHIO 44703 PHONE (330) 452-9806 FAX (330) 452-5867

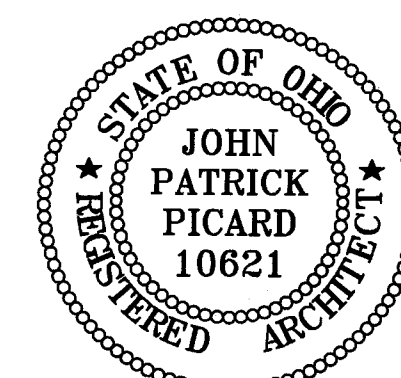


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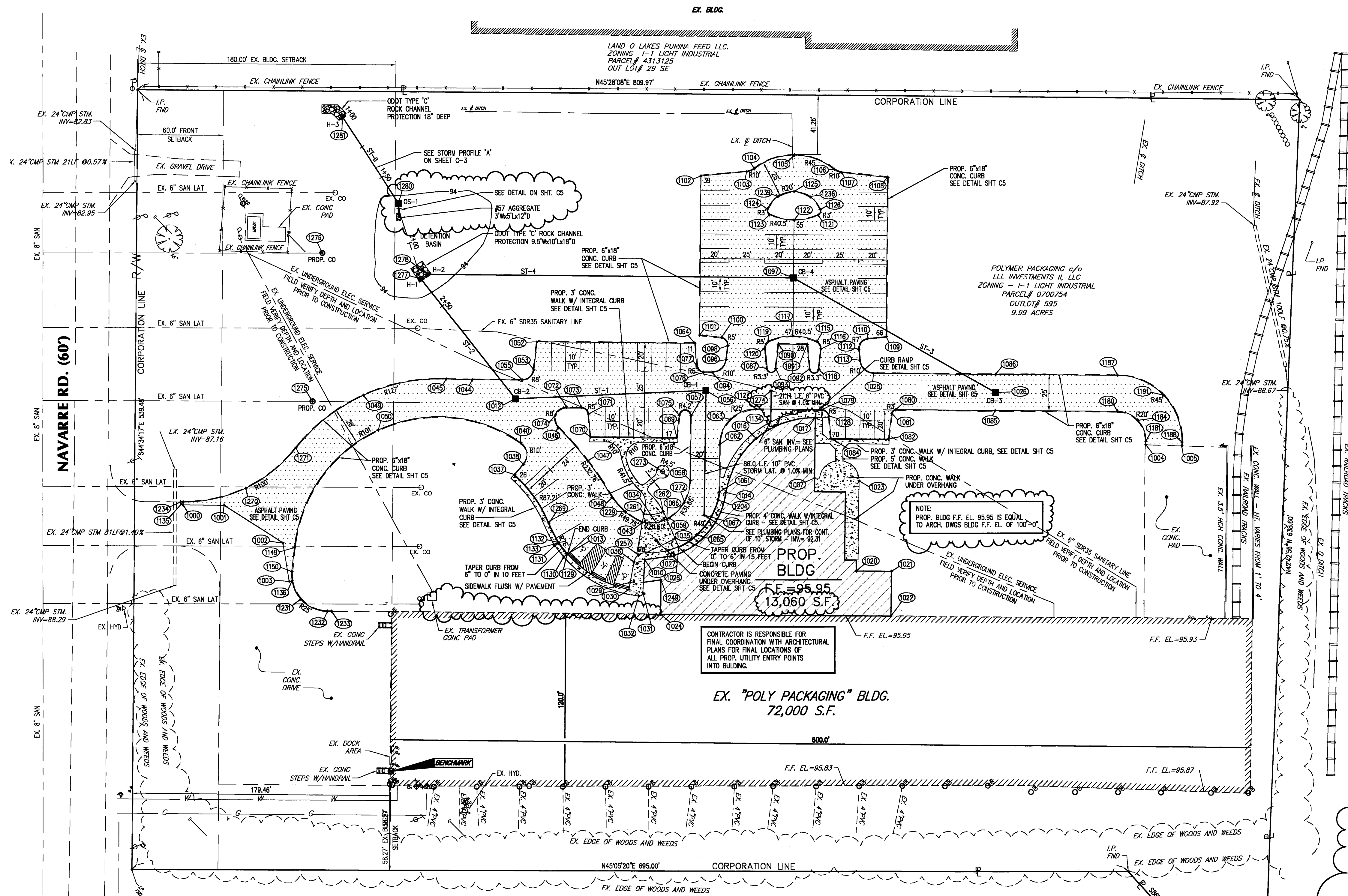


Project Number
06015

Date
8-18-06

Scale
NO SCALE

est
G 1



COORDINATE DATA		
PNT. NO.	COORDINATE	ELEV.
1000	5166.48 4886.39	91.31
1001	5186.53 4906.76	90.29
1002	5197.32 4953.82	91.09
1003	5181.14 4976.03	91.14
1004	5670.43 5331.83	96.00
1005	5687.64 5349.97	94.37
1007	5491.00 5184.58	95.91
1010	5367.37 5140.54	95.90
1012	5381.91 4998.49	93.13
1013	5332.22 5099.79	94.65
1014	5440.36 5147.93	95.62
1016	5481.42 5136.56	95.62
1017	5520.67 5155.37	95.49
1020	5466.20 5250.51	95.62
1021	5483.31 5267.89	95.62
1022	5461.20 5289.65	95.62
1023	5511.50 5207.79	95.62
1024	5348.55 5175.18	95.90
1026	5271.09 5162.57	94.57
1028	5621.93 5124.05	93.50
1027	5384.00 5147.94	95.90
1028	5390.49 5150.99	95.83
1029	5349.04 5144.74	95.69
1030	5344.92 5147.58	95.66
1031	5350.26 5156.03	95.76
1032	5346.65 5155.76	95.74
1034	5391.08 5128.26	95.32
1035	5371.43 5137.83	95.62
1036	5360.92 5136.56	95.76
1037	5344.71 5035.22	93.78
1038	5354.17 5034.52	93.70
1040	5363.29 5022.80	93.51
1043	5384.39 5121.38	95.16
1044	5369.99 4967.87	93.54
1045	5357.53 4954.75	93.77
1046	5389.22 5033.85	93.72
1047	5387.48 5084.41	94.22
1048	5381.74 5094.47	94.72
1049	5308.63 4921.66	94.50
1050	5299.33 4945.94	94.50
1052	5420.30 4981.28	94.39
1053	5405.23 4993.41	93.85
1055	5394.51 4992.79	93.55
1056	5479.88 5088.21	94.28
1057	5460.31 5093.43	94.48
1058	5428.54 5124.70	94.91
1059	5399.64 5132.53	95.22
1061	5436.97 5144.46	95.02
1062	5460.17 5121.64	94.69
1063	5477.90 5114.46	94.54
1064	5497.46 5059.70	95.12
1065	5405.09 5154.14	95.33
1066	5397.91 5131.94	95.24
1067	5418.42 5148.37	
1069	5442.60 5096.85	94.68
1070	5400.52 5054.09	94.47
1071	5410.59 5041.99	94.17
1072	5402.91 5027.77	93.82
1073	5410.31 5035.29	94.02
1074	5393.96 5026.07	93.77
1075	5454.73 5087.17	94.53
1077	5487.83 5071.29	94.75
1078	5487.77 5078.36	94.60
1079	5527.80 5154.72	94.85
1080	5564.27 5191.28	94.90
1081	5560.42 5190.93	94.94
1082	5546.22 5201.91	95.12
1084	5518.16 5173.40	95.14
1085	5613.02 5240.82	93.69
1086	5630.84 5223.29	93.69
1087	5520.61 5107.26	94.73
1090	5538.39 5101.33	95.16
1091	5552.42 5115.58	95.21

COORDINATE DATA		
PNT. NO.	COORDINATE	ELEV.
1092	5541.44 5128.79	95.04
1093	5525.22 5111.93	94.99
1094	5491.82 5082.47	94.54
1096	5505.21 5083.25	94.80
1097	5577.94 5076.44	94.34
1098	5512.73 5077.19	94.64
1100	5513.49 5070.16	94.63
1101	5503.84 5058.17	94.86
1102	5582.26 4980.99	95.25
1103	5606.85 5001.50	94.84
1104	5612.02 5003.74	94.94
1105	5638.51 5016.83	95.03
1106	5651.17 5043.53	94.94
1107	5653.33 5048.73	94.94
1108	5673.44 5073.65	95.25
1109	5595.02 5150.82	94.86
1110	5585.10 5142.57	94.67
1112	5575.24 5143.48	94.68
1113	5570.52 5149.16	94.80
1115	5558.60 5118.01	94.42
1116	5557.04 5124.62	94.55
1117	5549.43 5104.50	94.75
1118	5546.04 5133.47	94.90
1119	5535.08 5095.09	94.31
1120	5529.43 5096.58	94.44
1121	5621.02 5057.87	94.27
1122	5606.45 5048.38	94.14
1123	5597.20 5033.67	94.27
1124	5598.89 5029.87	94.36
1125	5620.69 5034.37	94.53
1126	5624.84 5056.23	94.36
1127	5495.52 5121.92	94.65
1128	5528.09 5161.42	94.94
1129	5331.72 5099.75	94.66
1130	5328.73 5099.54	94.72
1131	5329.98 5089.18	95.01
1132	5333.59 5089.89	94.48
1133	5333.33 5086.79	94.98
1134	5406.93 5135.21	
1135	5167.91 4884.99	91.33
1136	5182.76 4977.20	91.16
1149	5200.60 4961.76	91.78
1150	5187.31 4972.43	91.33
1180	5672.29 5330.08	95.95
1181	5672.29 5330.08	95.95
1184	5678.52 5315.91	95.64
1187	5690.59 5294.00	95.33
1188	5689.49 5348.22	94.40
1191	5703.51 5316.34	94.87
1204	5432.69 5147.57	95.02
1229	5381.20 5108.11	94.94
1231	5178.01 4990.53	91.22
1232	5185.23 5009.54	91.43
1233	5187.32 5011.64	91.43
1234	5166.72 4883.78	91.33
1236	5626.08 5044.67	94.44
1239	5610.47 5026.81	94.44
1249	5365.47 5158.54	95.30
1257	5366.42 5135.21	95.79
1261	5389.21 5118.07	95.66
1262	5399.96 5126.47	95.74
1269	5338.04 5075.60	94.24
1270	5205.62 4909.04	92.28
1271	5250.05 4914.25	93.24
1272	5415.07 5132.25	95.06
1273	5419.13 506.70	95.39
1274	5511.99 5120.45	
1275	5280.58 4899.72	
1276	5357.99 4831.93	
1277	5393.95 4893.53	88.53
1278	5399.34 4894.55	88.42
1280	5419.91 4845.09	88.00
1281	5434.49 4775.30	84.25

STORM SEWER DATA	
CB-1 (ODOT CB2-2-B)	
T/C = 94.28	
12" SW INV = 91.28	
10' SE INV = 91.45	
ST-1, 132.84 L.F. 12" HDPE @ 0.87%	
CB-2 (ODOT CB2-2-B)	
T/C = 93.13	
12" NE INV = 90.13	
15' W INV = 89.88	
ST-2, 105.65 L.F. 15" HDPE @ 1.28%	
H-1 (FULL HEIGHT HEADWALL)	
15" INV = 88.53	
CB-3 (ODOT CB2-2-B)	
T/C = 93.50	
15' W INV = 90.50	
ST-3, 161.7 L.F. 15" HDPE @ 0.50%	
CB-4 (ODOT CB2-2-B)	
T/C = 93.34	
15' NEASW INV = 89.69	
ST-4, 254.91 L.F. 15" HDPE @ 0.5%	
H-2 (FULL HEIGHT HEADWALL)	
15" INV = 88.42	

STORM SEWER DATA	
CB-1 (OUTLET STRUCTURE (ODOT CB2-2-A))	
T/C = 94.28	
1" E INV = 88.05	
15' W INV = 89.88	
6" WINDOW INVS = 92.50	
ST-5, 71.30 L.F. 15" HDPE @ 5.15%	
H-3 (ODOT HW-2-1)	
15" INV = 84.25	

GEOMETRY NOTES

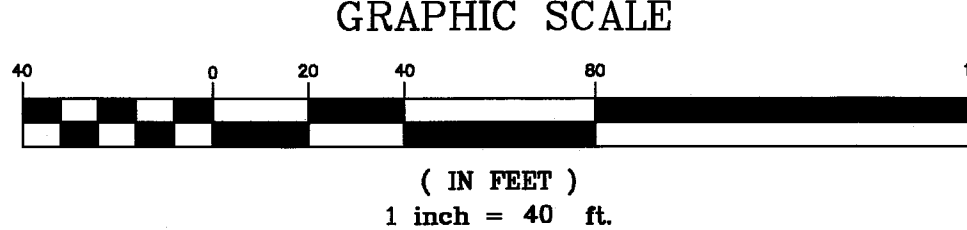
- POINTS SHOWN ON PLAN HAVE BEEN SET AT ALL FACE OF CURB PC, PT, CURVE MIDPOINT AND INTERSECTION LOCATIONS. POINTS SHOWN ON UTILITY STRUCTURES ARE THE CENTER OF THE STRUCTURE.
- ELEVATIONS SHOWN ARE FINISHED GRADE. BENCHMARK SHALL BE AS NOTED ON THE DRAWING.
- PAVEMENT MARKING SHALL BE INSTALLED PER ODOT 640. THE PARKING STALL LINES SHALL BE WHITE AND FOUR (4) INCHES WIDE. THE NON-PARKING AREAS ADJACENT TO THE ADA STALLS SHALL BE FOUR (4) INCH WIDE LINES ALIGNED 45 DEGREES DIAGONAL TO ADJACENT PARKING STALL LINES. ADA SYMBOL SHALL BE ODOT STANDARD PER ODOT 641.0
- COORDINATE FINAL LOCATIONS OF ALL UTILITY CONNECTIONS INTO BUILDING WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- CONTRACTOR IS TO FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEE SHEET SD-2 FOR LANDSCAPING LAYOUT.
- SEE SHEET SD-2 FOR PARKING SPACE DATA.

BENCHMARK

BM = FINISHED FLOOR ELEVATION OF THE POLY PACKAGING BUILDING AT THE DOOR WAY AT THE SOUTHEAST CORNER OF THE BUILDING. ELEVATION = 95.83

UTILITY NOTES:

- ALL STORM SEWER, SANITARY AND WATER LINES UNDER AREAS TO BE PAVED ARE TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL TO PAVEMENT SUBGRADE.
- STORM SEWER CONDUITS SHALL BE:
STORM SEWER PIPES 8" AND GREATER SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) - SMOOTH INTERIOR ADVANCED DRAINAGE SYSTEMS N-12, HANCOCK INC. HI-Q, OR APPROVED EQUAL. SHALL CONFORM TO ODOT CWS ITEM 603 TYPE B, PIPE CULVERTS, SEWERS, DRAINS AND CONDUIT. SHALL ALSO CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 944.
6" - PVC PIPE ASTM D-3034, TYPE PSM, SDR 35, AND SHALL CONFORM TO ODOT SPECIFICATION 707.19.
6" ROOF DRAIN - PVC CORRUGATED DRAINAGE PIPE CONFORMING TO ODOT SPECIFICATION 707.19.
- SITE CONTRACTOR SHALL BRING ALL PROPOSED UTILITIES TO WITHIN 5 FEET OF BUILDING FACE.
- SEE PLUMBING PLANS FOR WATER SERVICE INTO PROPOSED BUILDING.
- SEWER CONTRACTOR TO OBTAIN LICENSE AND SEWER TAP PERMITS FOR ALL CONNECTIONS PRIOR TO THE START OF WORK. SITE MAY REQUIRE PERMITS FROM BOTH CITY OF MASSILLON AND STARK COUNTY SEWER DISTRICT. CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS.



LEGEND	
REC. - RECORD DISTANCE OR ANGLE	— CATCH BASIN
CAL. - CALCULATED DISTANCE OR ANGLE	— WATER METER
OBS. - OBSERVED DISTANCE OR ANGLE	— WATER VALVE
T.P.O.B. - TRUE PLACE OF BEGINNING	— FENCE
P.O.B. - PLACE OF BEGINNING	— GAS VALVE
— MONUMENT BOX	— POST
— MONUMENT FOUND, SIZE & TYPE AS INDICATED	— HANDICAP SPACE
— 6" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP GBA SET	— SIGN
— P.K.(MASONRY) NAIL SET	— RIGHT-OF-WAY
— POWER POLE	— GAS LINE MARKER
— LIGHT POLE	— MANHOLE
— TELEPHONE POLE	— SANITARY MANHOLE
— HYDRANT	— ELECTRIC BOX
	— CENTERLINE
	— RECORD BEARING
	— DISTANCE
	— CONCRETE CURBING
	— PROPOSED STORM SEWER
	— PROPOSED SANITARY SEWER
	— PROPOSED GAS SERVICE
	— PROPOSED ELEC. SERVICE
	— CONCRETE SIDEWALKS SEE DETAIL SHT SD-1
	— ASPHALT PAVEMENT SEE DETAIL SHT SD-1

UNDERGROUND UTILITIES

2 WORKING DAYS BEFORE YOU DIG

Call...800-362-2764 (Toll Free)

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CALLED DIRECTLY

JOHN PATRICK PICARD ARCHITECT INCORPORATED AND ZEBRAWOOD INTERIORS

720 MCKINLEY AVENUE, NW CANTON, OHIO 44703

PHONE (330) 471-9000 FAX (330) 471-9549

POLYMER PACKAGING OFFICE BUILDING ADDITION

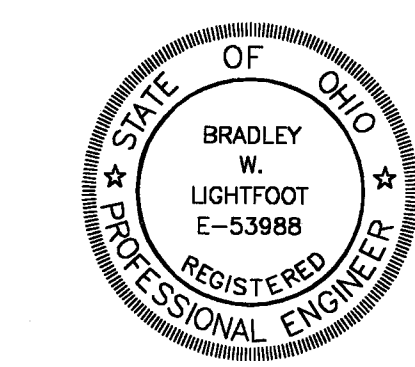
800 NAVARE ROAD S.W. MASSILLON, OHIO

Project Number 06015

Date 9-25-06

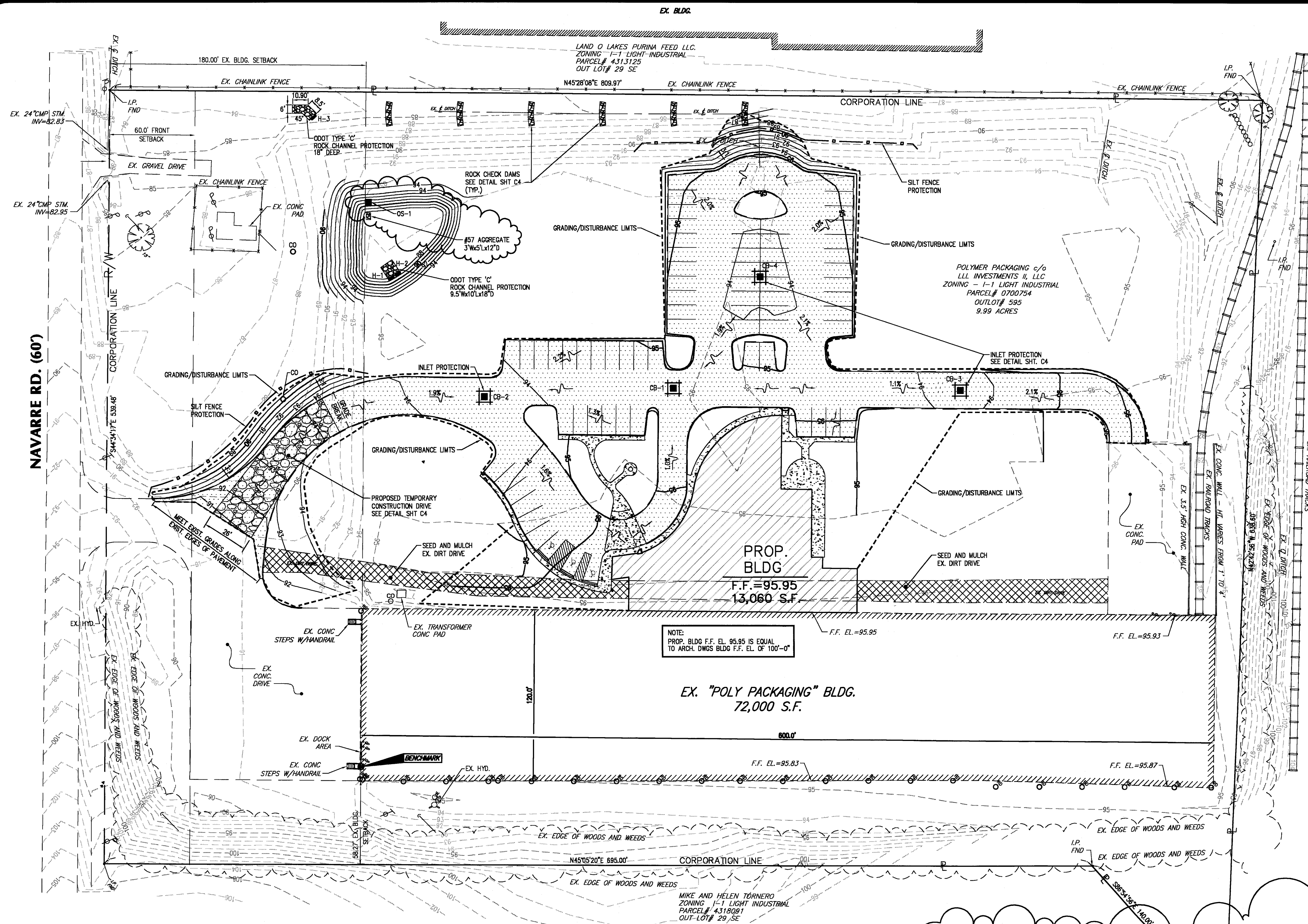
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Sheet C2

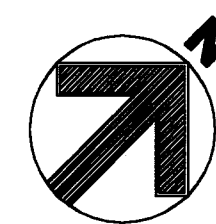


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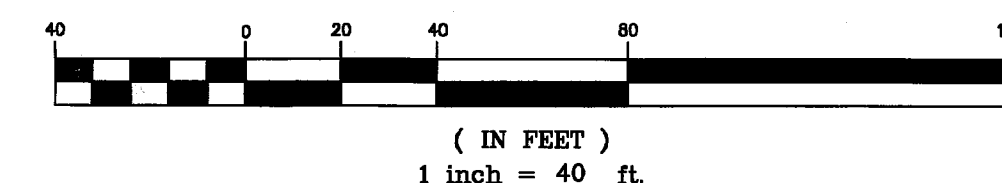
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 WATER VALVE
 FENCE
 GAS VALVE
 POST
 HANDICAP SPACE
 SIGN
 RIGHT-OF-WAY
 GAS LINE MARKER
 MANHOLE
 SANITARY MANHOLE
 ELECTRIC BOX
 CENTERLINE
 RECORD BEARING & DISTANCE
- EXISTING CONTOURS
 PROPOSED CONTOURS
 DRAINAGE FLOW
 SILT FENCE
 PROPOSED INLET PROTECTION



GRAPHIC SCALE

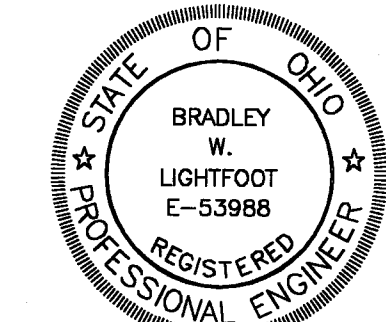


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 AND
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 720 McKinley Avenue, NW
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 FAX (330) 471-9549

POLYMER PACKAGING OFFICE BUILDING ADDITION
 800 NAVARRE ROAD S.W.
 MASSILLON, OHIO

GRADING NOTES

- THE BOLD PROPOSED CONTOURS AND SHOWN ARE FINISHED GRADE IN PAVED AREAS AND IN LAWN AREAS. CONTOURS ARE IN ONE (1) FOOT INCREMENTS.
- LIGHT, DASHED CONTOURS ARE EXISTING GRADE AND ARE IN ONE (1) FOOT INCREMENTS.
- GRADES SHALL BE STRAIGHT LINE BETWEEN POINT ELEVATIONS AND CONTOURS SHOWN.
- POINT ELEVATIONS SHOWN ON GEOMETRY PLAN, ARE BOTTOM, FACE OF CURBING AND ARE FINISHED GRADE UNLESS NOTED OTHERWISE. ALL POINTS SHOWN ARE LOCATED AT PC, PT, INTERSECTION AND CORNER LOCATIONS.
- ALL EMBANKMENT UNDER PAVEMENTS AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER ODOT SPEC. 203.
- ALL AREAS AFFECTED BE SITE WORK, EXCLUDING PAVED AND STRUCTURE AREAS, SHALL BE SEEDED AND MULCHED PER ODOT SPEC. 659.
- CONTRACTOR SHALL STRIP ANY TOPSOIL AND STOCKPILE PRIOR TO SITE GRADING OPERATION. CONTRACTOR SHALL PLACE STOCKPILED TOPSOIL TO A THICKNESS OF SIX (6) INCHES PER ODOT SPEC. 653 IN ALL NON-PAVING AND BUILDING AREAS.
- ALL SLOPES GREATER THAN 3:1 SHALL BE SEEDED AND MULCHED PER ODOT ITEM 667 SEEDING AND JUTE MATTING.

NOTE:

THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCE, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL "RAINWATER AND LAND DEVELOPMENT - OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION". SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS AS SPECIFIED BY THE CITY OF MASSILLON.

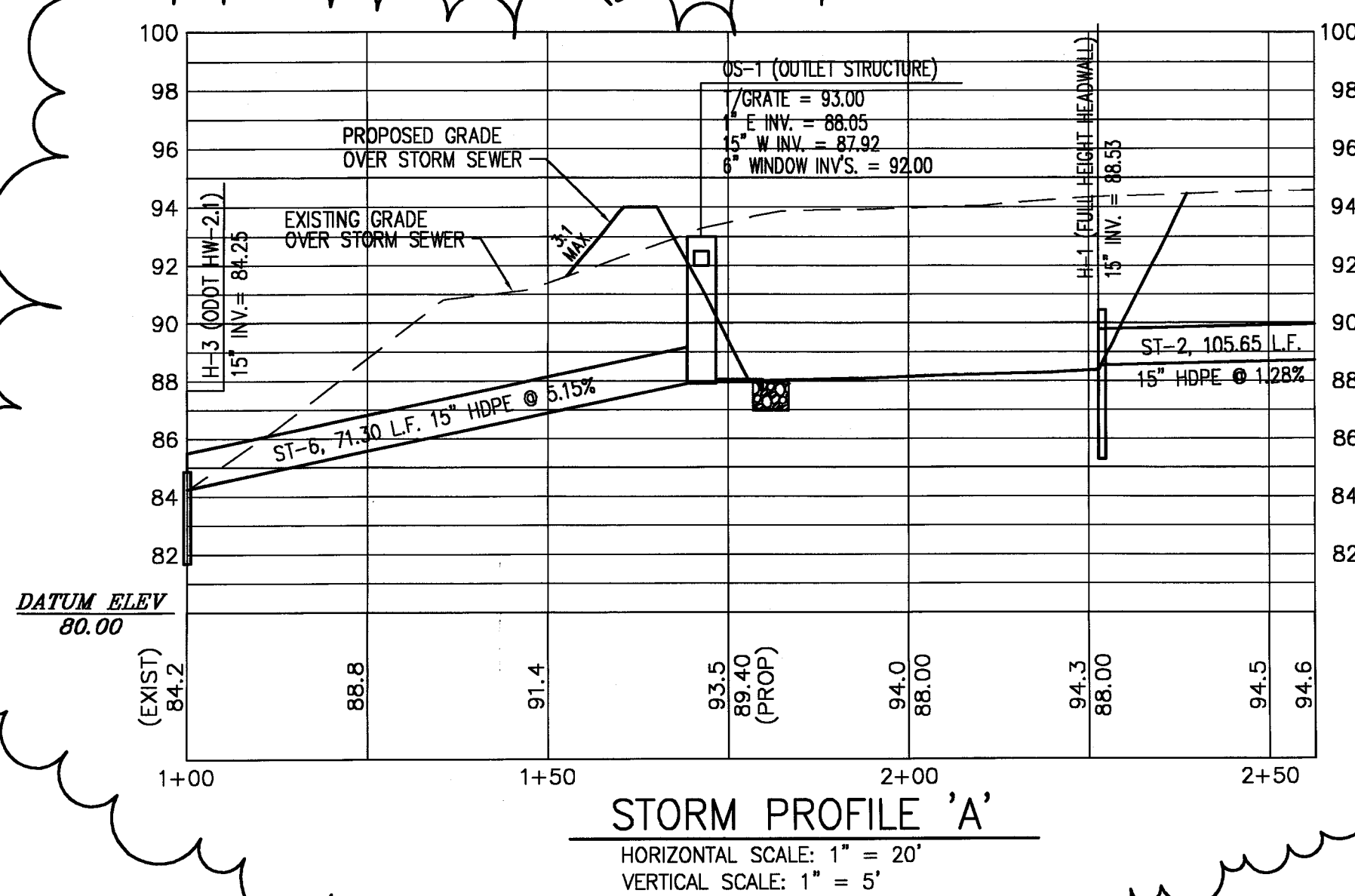
FLOOD ZONE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, EFFECTIVE DATE MARCH 2, 1979 THE SUBJECT PROPERTY IS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, MINIMAL FLOODING.

BENCHMARK

AS INDICATED ON THE DRAWING

BM = FINISHED FLOOR ELEVATION OF THE POLY PACKAGING BUILDING AT THE DOOR WAY AT THE SOUTHEAST CORNER OF THE BUILDING.
 ELEVATION = 95.83



STORM PROFILE 'A'

HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'

Project Number
 06015

Date
 9-25-06

Scale
 1" = 40'-0"

Sheet

C3

STORM WATER POLLUTION PREVENTION NOTES

ALL WORK SPECIFIED AS AN O.D.O.T. ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. ALL OTHER ITEMS SHOULD CONFORM TO SPECIFICATIONS CONTAINED IN THE O.D.N.R. MANUAL – RAINWATER AND LAND DEVELOPMENT.

THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN EROSION IS ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUESTED BY THE OWNER, CITY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

ALL EROSION AND SEDIMENTATION CONTROL ITEMS SHALL BE INSTALLED AS SHOWN ON THE STORM WATER POLLUTION PREVENTION DETAIL SHEET.

PLAN ODOT ITEM 207 TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 15 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 24 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW, TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

TEMPORARY SEEDING SPECIFICATIONS:

SEEDING DATES	SEED TYPE	APPLICATION RATE PER 1,000 SF
MARCH 1 – AUGUST 15	OATS	3#
	PERENNIAL RYE GRASS OR TALL FESCUE	1#
AUGUST 16 – NOVEMBER 1	RYE, WHEAT OR PERENNIAL RYE GRASS TALL FESCUE	3# 1#
AFTER NOVEMBER 1	STRAW OR HAY MULCH	2–3 BALES
SEED BED PREPARATION	LIME	100#
	10–10–10 OR 12–12–12 FERTILIZER	12–15#

SILT FENCE SEDIMENT BARRIERS AND SEDIMENT PITS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, YARD DRAINS. STRAW BALES SHALL BE STACKED TWO (2) HIGH. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS TO CONTROL SOIL EROSION.

EROSION CONTROL MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.

TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR THE OHIO EPA INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.

UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.

THE TOTAL APPROXIMATE AREA OF DISTURBANCE FOR THIS PROJECT IS: 435,245 SQ.FT. (9.99 AC.).

ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OR THE INITIAL CLEARING/ GRADING OPERATION AS SHOWN ON PLANS.

ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL ITEMS AT ALL TIMES.

ALL SWPPP PRACTICES WILL BE INSTALLED FIRST BEFORE ANY OTHER EARTH MOVING OCCURS.

THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
– SILT FENCES, DRAINAGE SWALES, STORM DRAIN INLET & PROTECTION

CONSTRUCTION SEQUENCE

GENERAL CONSTRUCTION ACTIVITIES

BUILDING ADDITION & SITE IMPROVEMENTS

GENERAL CONSTRUCTION SEQUENCE

THE PROJECT SITE SHALL BE CLEARED AND GRUBBED WITHIN THE GRADING LIMITS AS SHOWN ON THE PLANS.

TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE INSTALLED.

SITE GRADING OPERATION TO BEGIN.

AT COMPLETION OF GRADING OPERATION, TEMPORARY OR PERMANENT SEEDING AND MULCHING SHALL BE INSTALLED AS DESIGNATED ON THIS SHEET.

AT COMPLETION OF PERMANENT STORM WATER CONTROL STRUCTURES AND SITE IS SUFFICIENTLY STABLE, THE TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE REMOVED.

DROP INLET SEDIMENT BARRIERS

SILT FENCE SEDIMENT BARRIER

SUPPORT POSTS FOR A SILT FENCE MUST BE STEEL FENCE POSTS OR 2 BY 4 INCH WOOD, LENGTH 3' MINIMUM, SPACING 3' MAXIMUM, WITH A TOP FRAME SUPPORT RECOMMENDED. EXCAVATE A TRENCH 4 INCHES WIDE AND 6 INCHES DEEP AND BURY THE BOTTOM OF THE WIRE MESH BACKING AND THE SILT FENCE IN THE TRENCH. BACKFILL THE TRENCH WITH GRAVEL OR SOIL. COMPACT BACKFILL WELL. THE HEIGHT OF THE SILT FENCE SHALL BE A MAXIMUM OF 1.5' MEASURED FROM THE TOP OF THE INLET.

INSPECTION AND MAINTENANCE

INSPECT THE BARRIER AFTER EACH RAIN AND PROMPTLY MAKE REPAIRS AS NEEDED. SEDIMENT SHALL BE REMOVED AFTER EACH SIGNIFICANT STORM (1" IN 24 HOURS) TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. FOR GRAVEL FILTERS: IF THE GRAVEL BECOMES CLOGGED WITH SEDIMENT IT MUST BE CAREFULLY REMOVED FROM THE INLET AND EITHER CLEANED OR REPLACED.

SILT FENCE

CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18" THE FENCE LINE SHALL FOLLOW LEVEL CONTOURS AS CLOSELY AS POSSIBLE. IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SECURELY WRAPPED AROUND A POST. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 16 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. TURN THE ENDS OF THE FENCE UPHILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

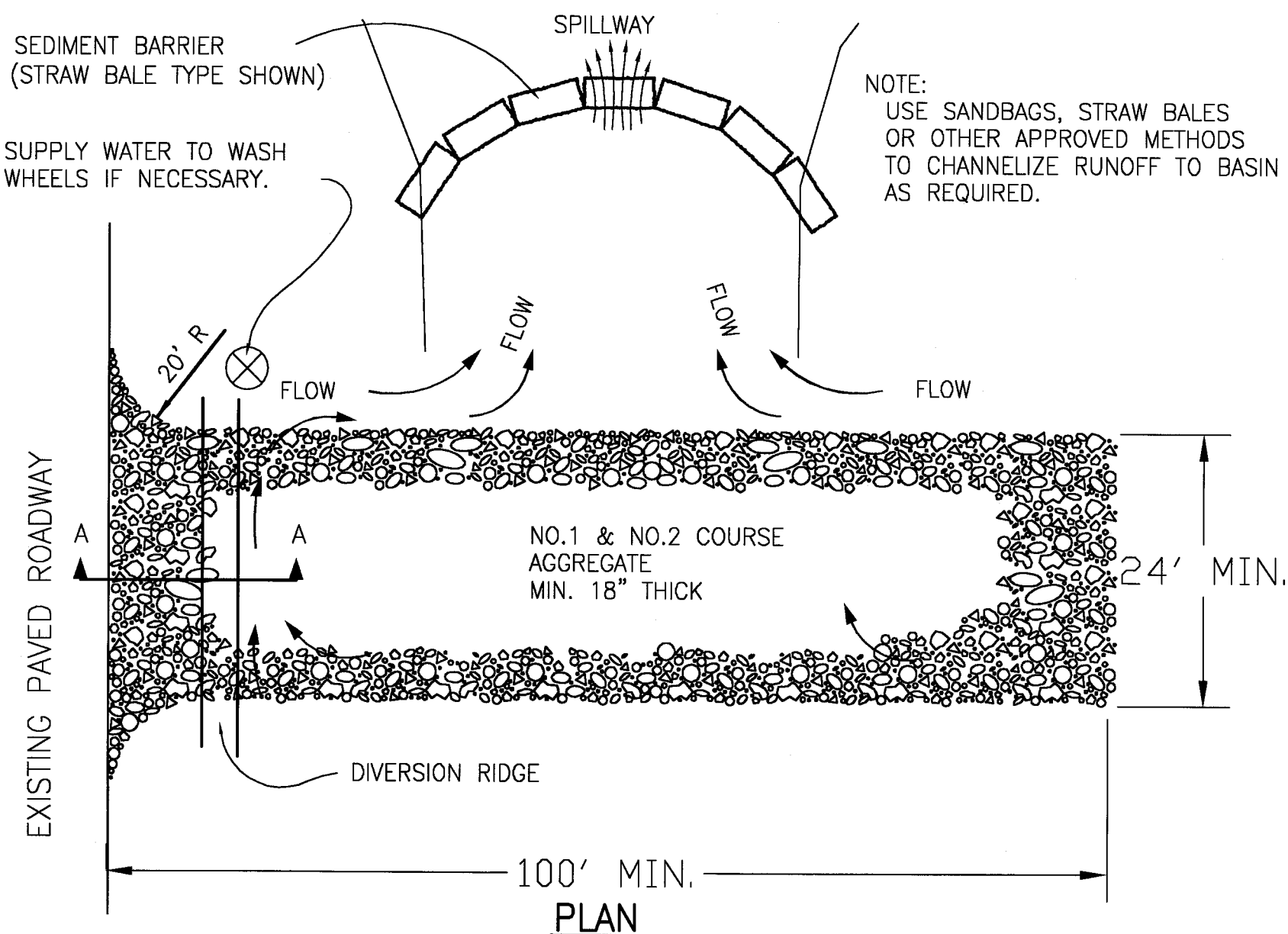
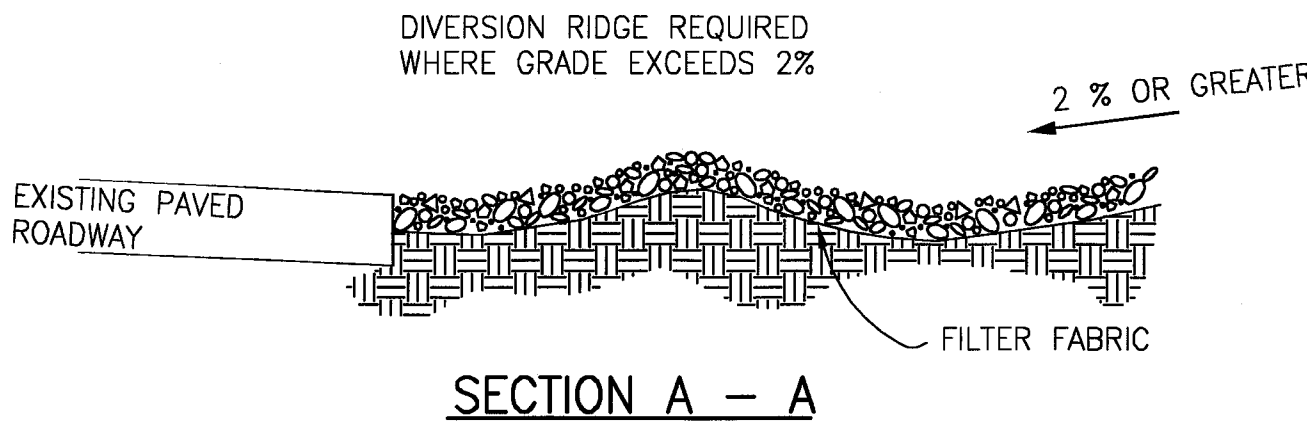
WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC. SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED (THIS INCLUDES THROUGHOUT THE DURATION OF DEVELOPMENT OF ALL INDIVIDUAL LOT SITES) AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

INSPECTION AND MAINTENANCE

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HRS). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE (9 INCHES MAXIMUM).

NOTES:

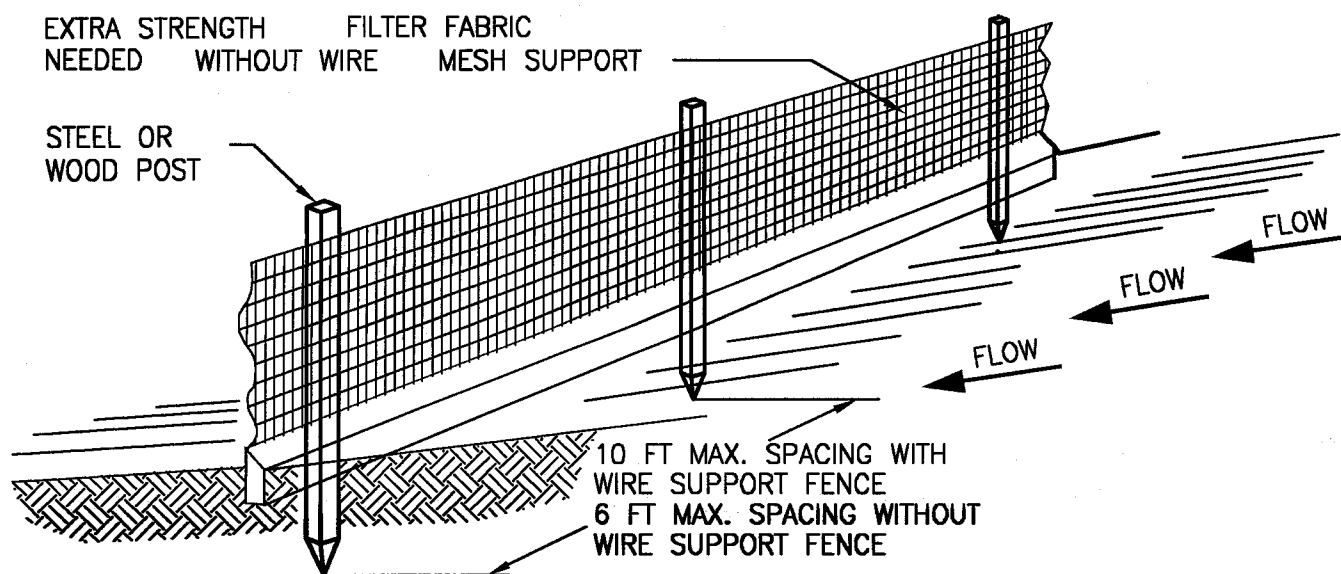
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

N.T.S.

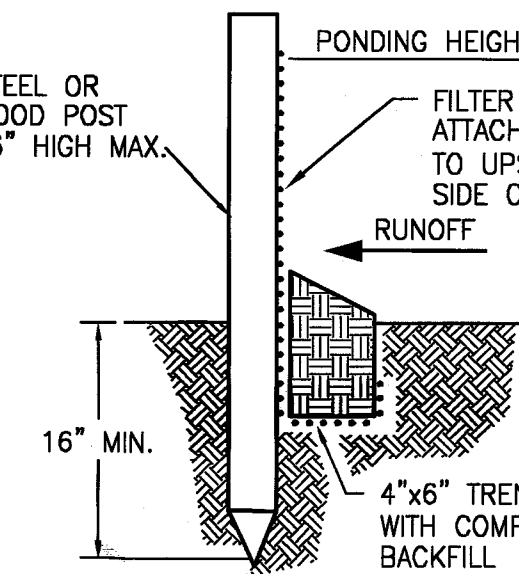
WRAP FILTER FABRIC AROUND STAKES BEFORE DRIVING



JOINING SECTIONS OF SILT FENCE

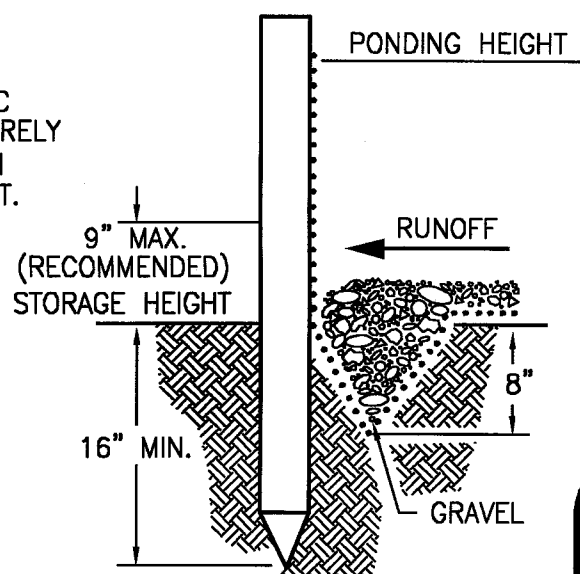
NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ALONG LEVEL CONTOURS WHERE POSSIBLE TO MAXIMIZE PONDING EFFICIENCY.



STANDARD DETAIL

TRENCH WITH NATIVE BACKFILL

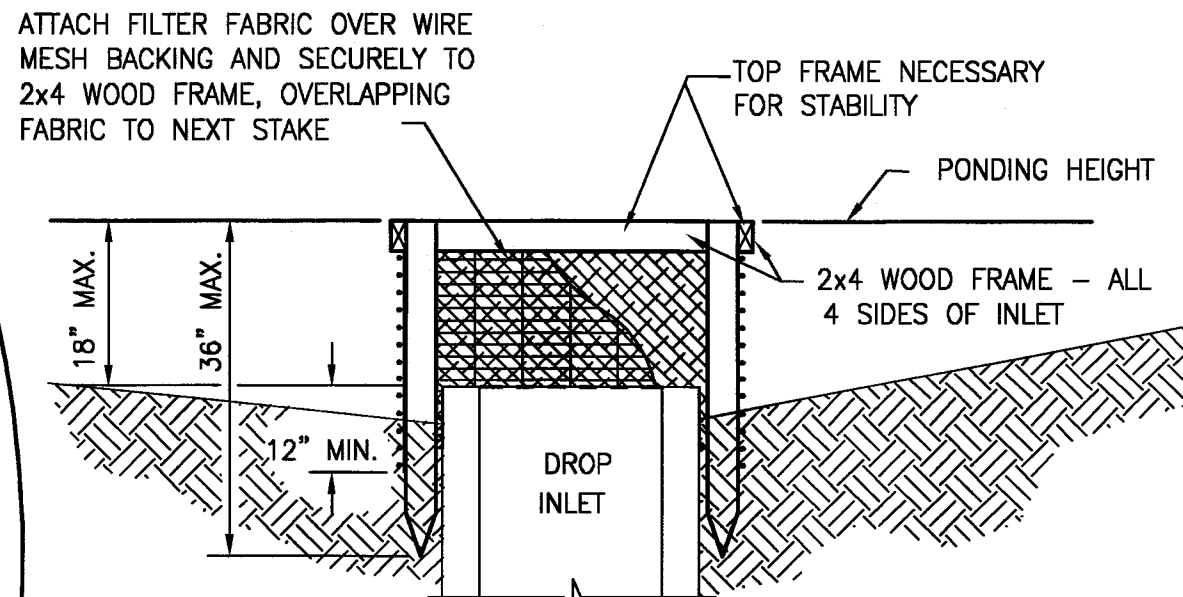


ALTERNATE DETAIL

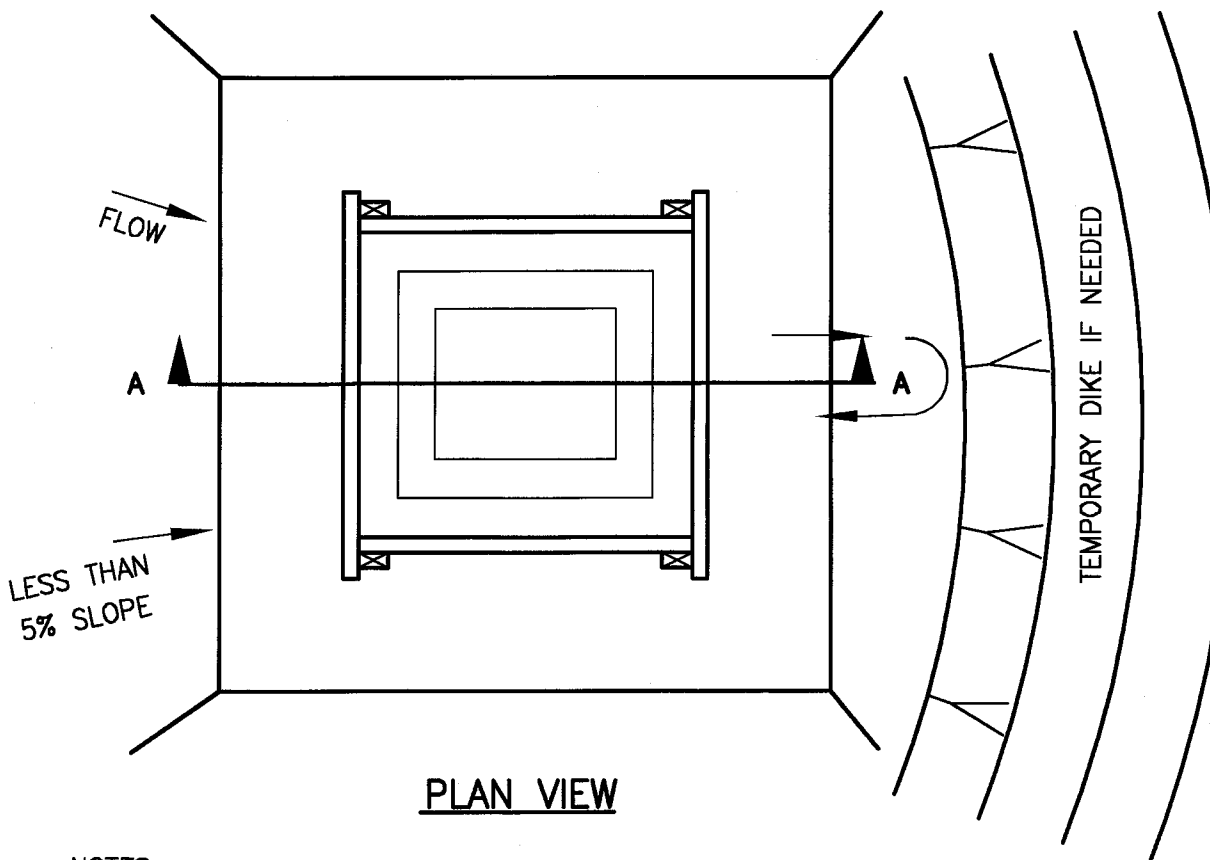
TRENCH WITH GRAVEL

SILT FENCE

N.T.S.



SECTION A-A

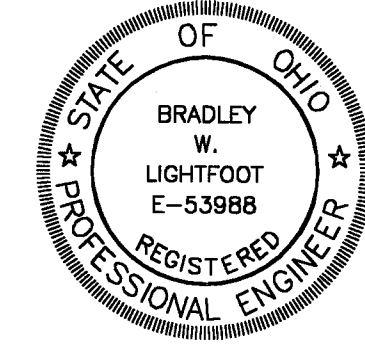


PLAN VIEW

NOTES:

1. THIS TYPE OF INLET PROTECTION TO BE USED UPON CURB INLET BOX INSTALLATION AND PRIOR TO FRAME AND COVER INSTALLATION.
2. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
3. USE 2X4 WOOD OR EQUIVALENT METAL STAKES, (3 FT MIN. LENGTH)
4. INSTALL 2X4 WOOD TOP FRAME TO INSURE STABILITY.
5. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

SILT FENCE DROP INLET SEDIMENT BARRIER



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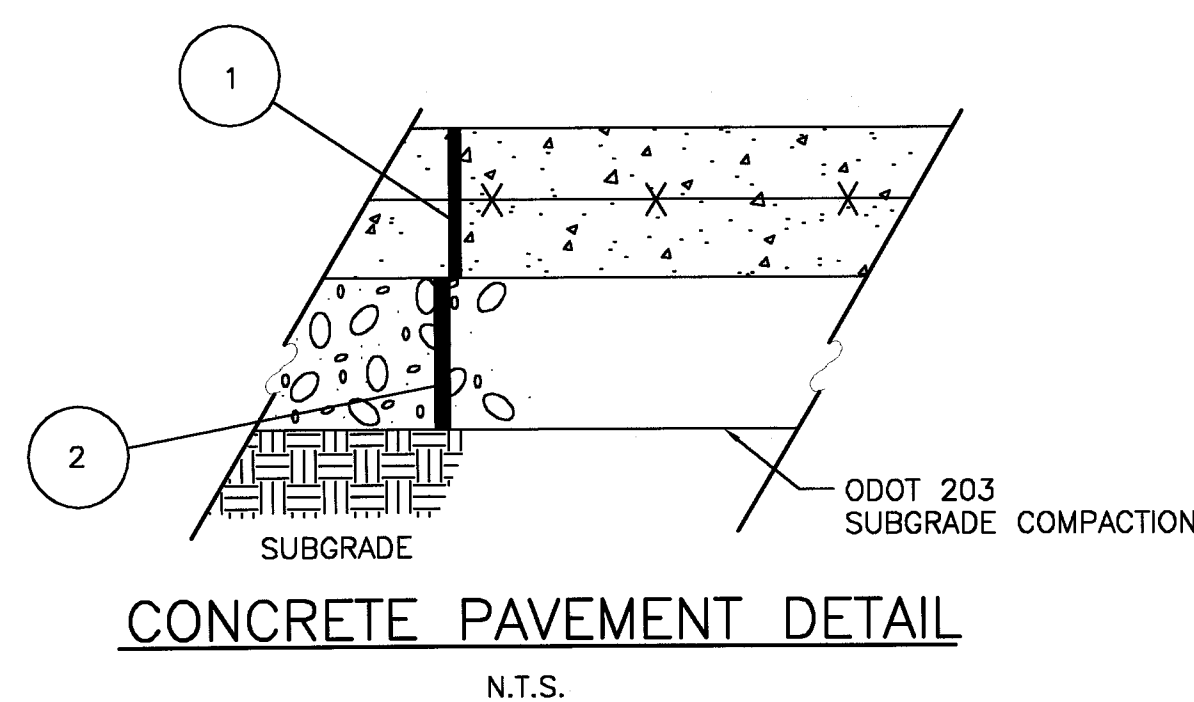
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06015

Date
9-25-06

Scale
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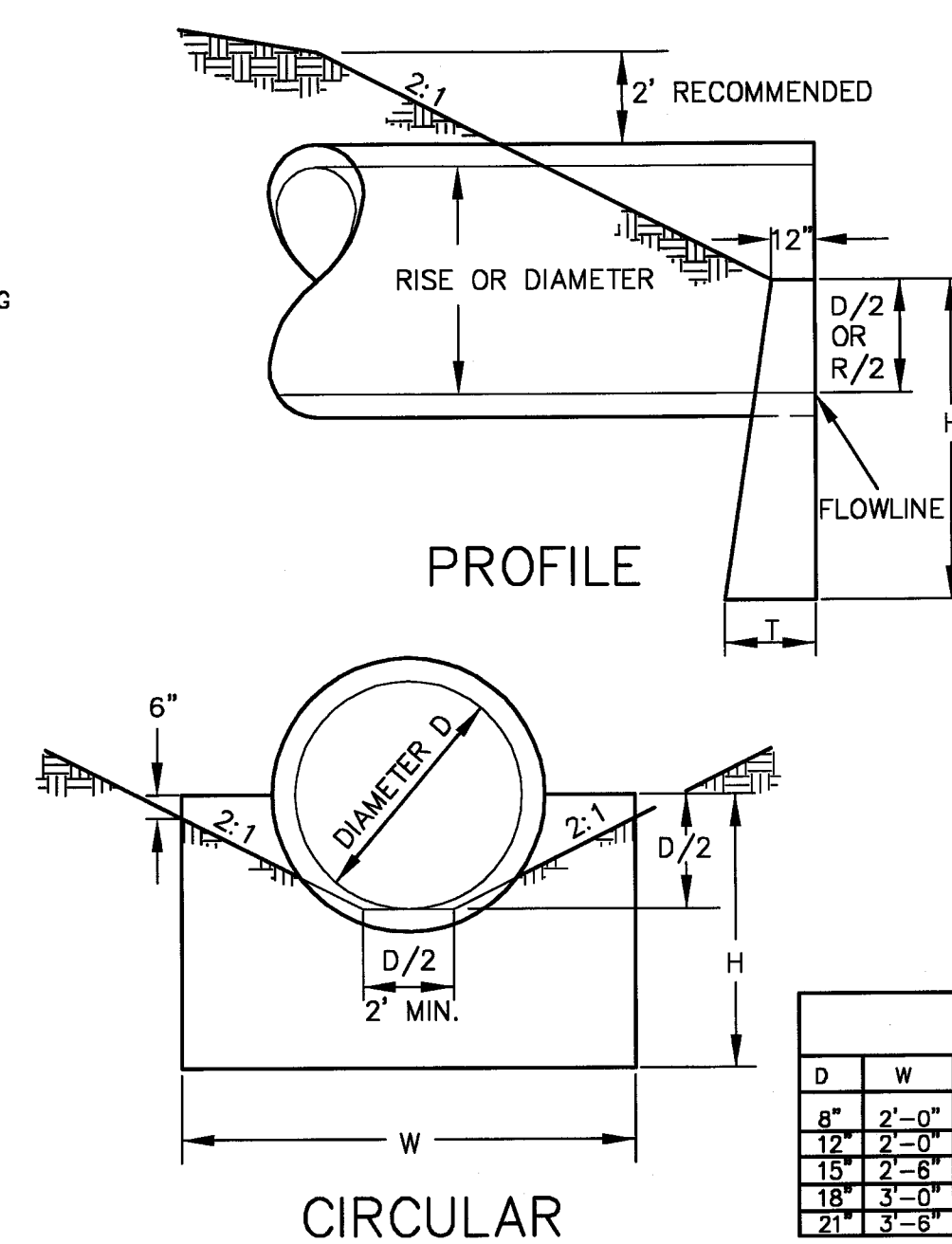
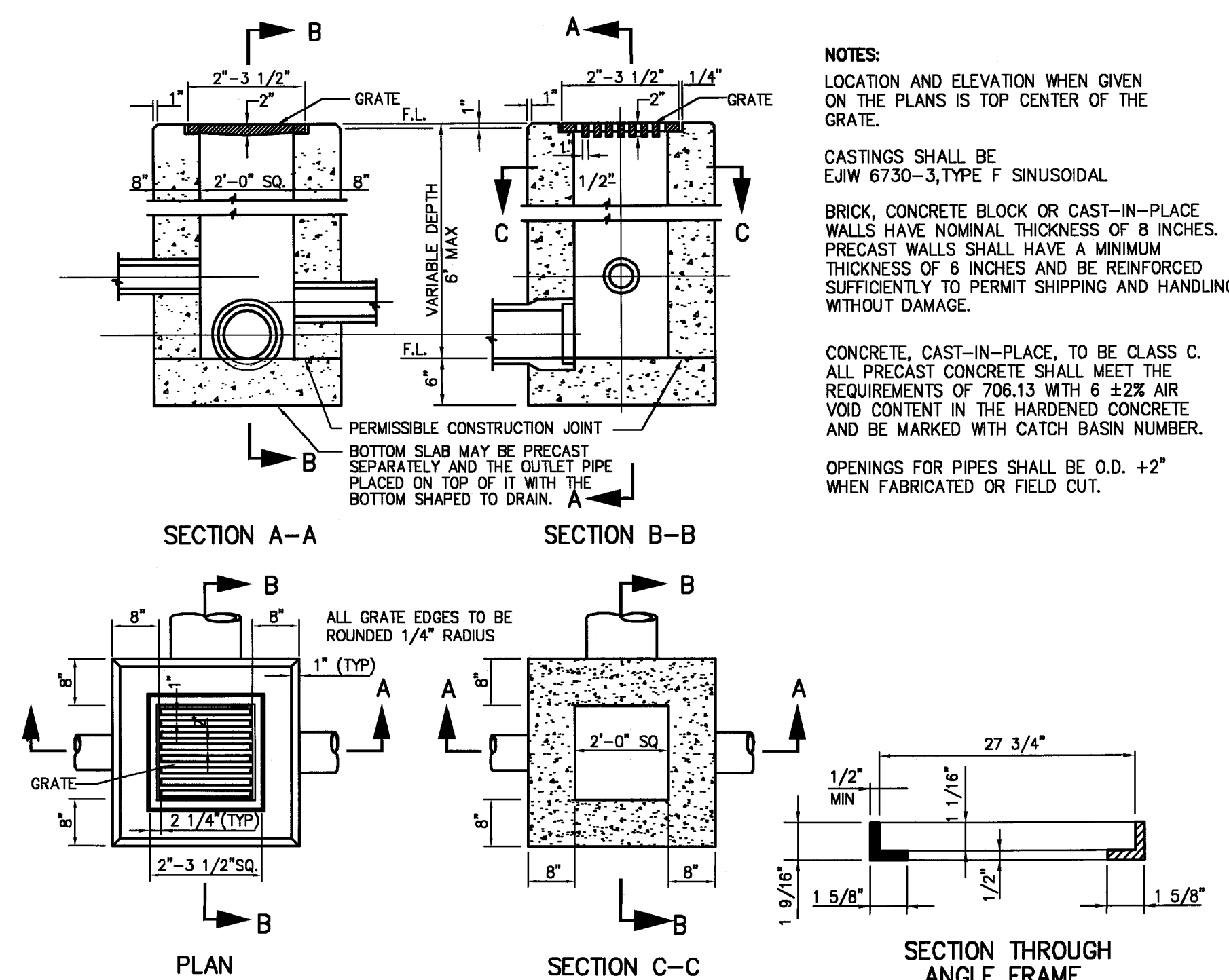
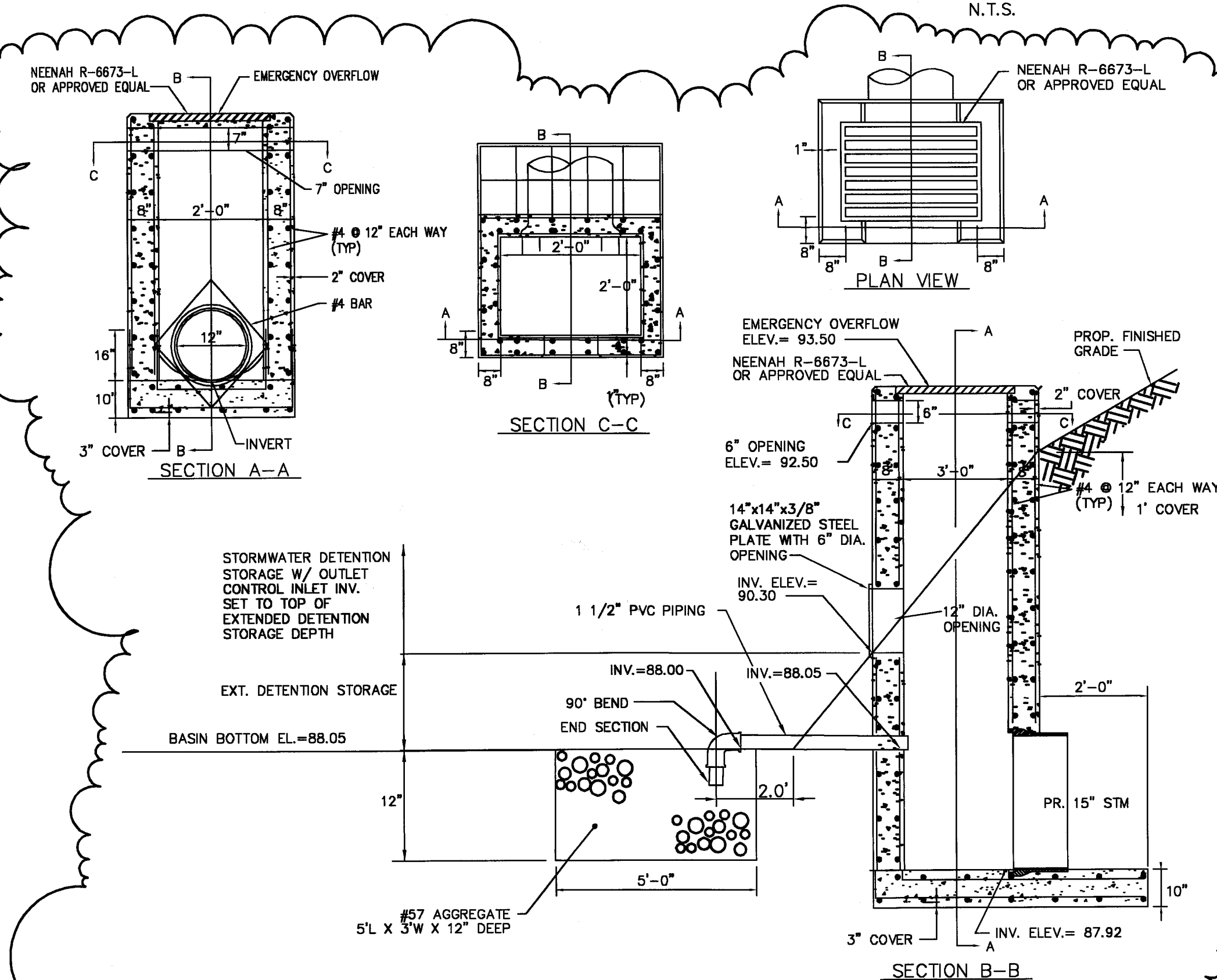
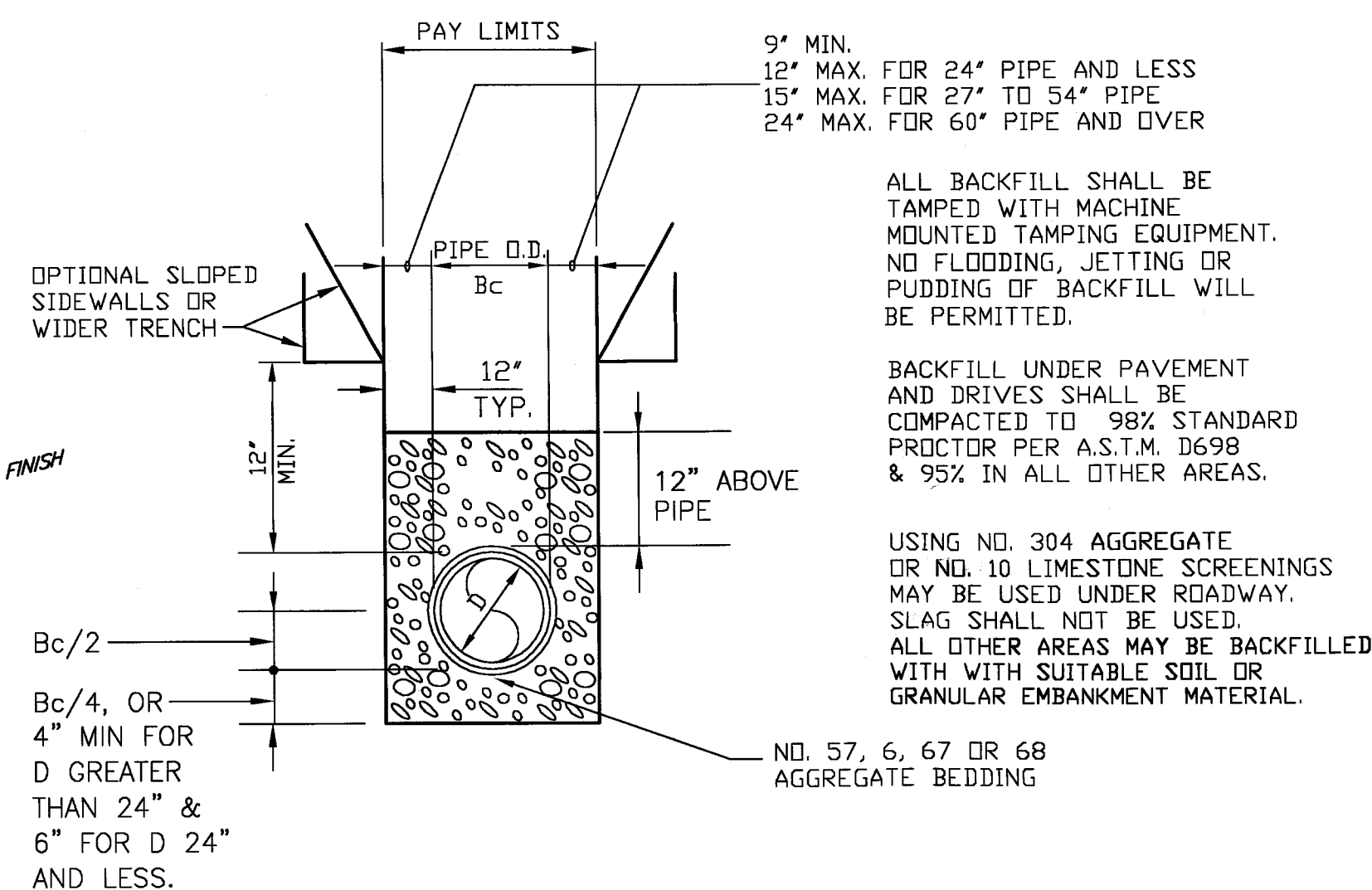
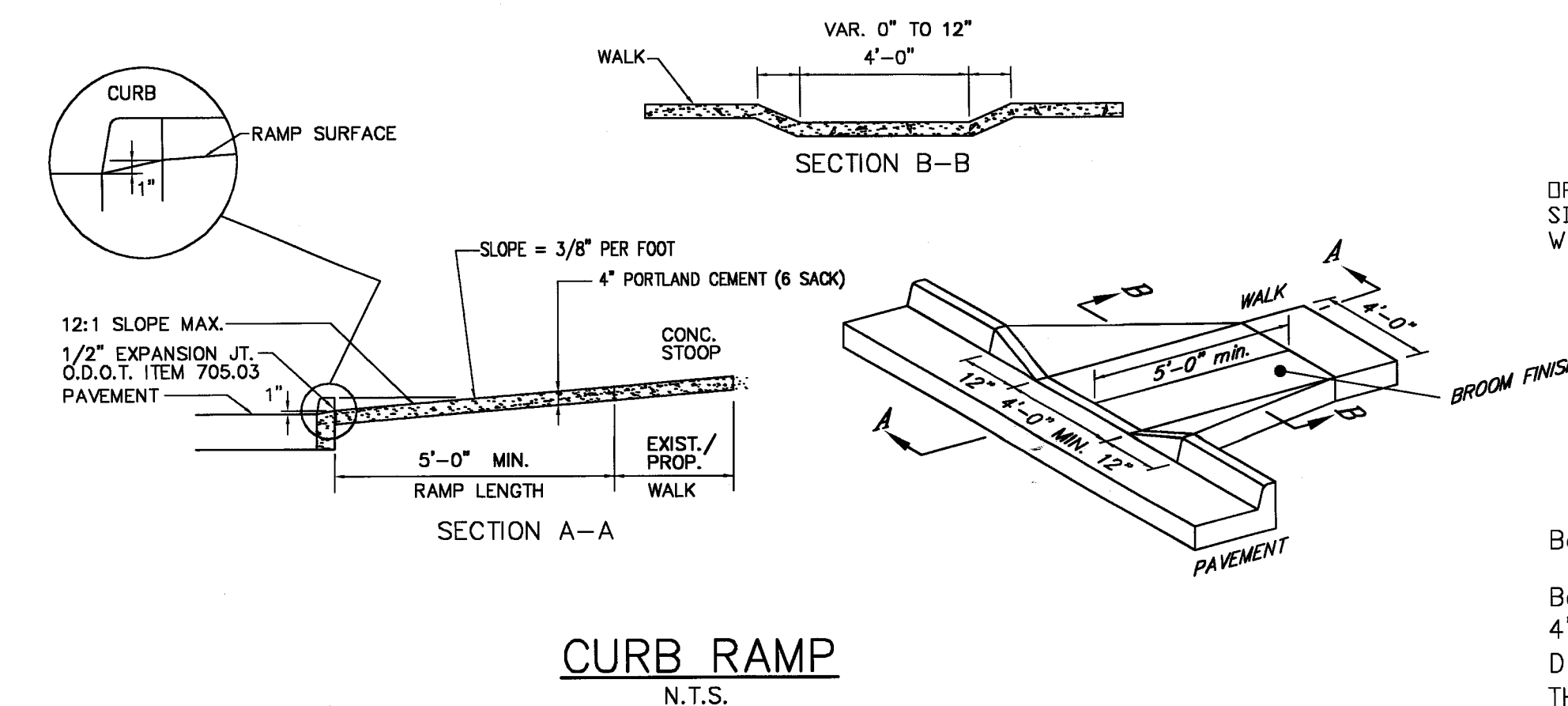
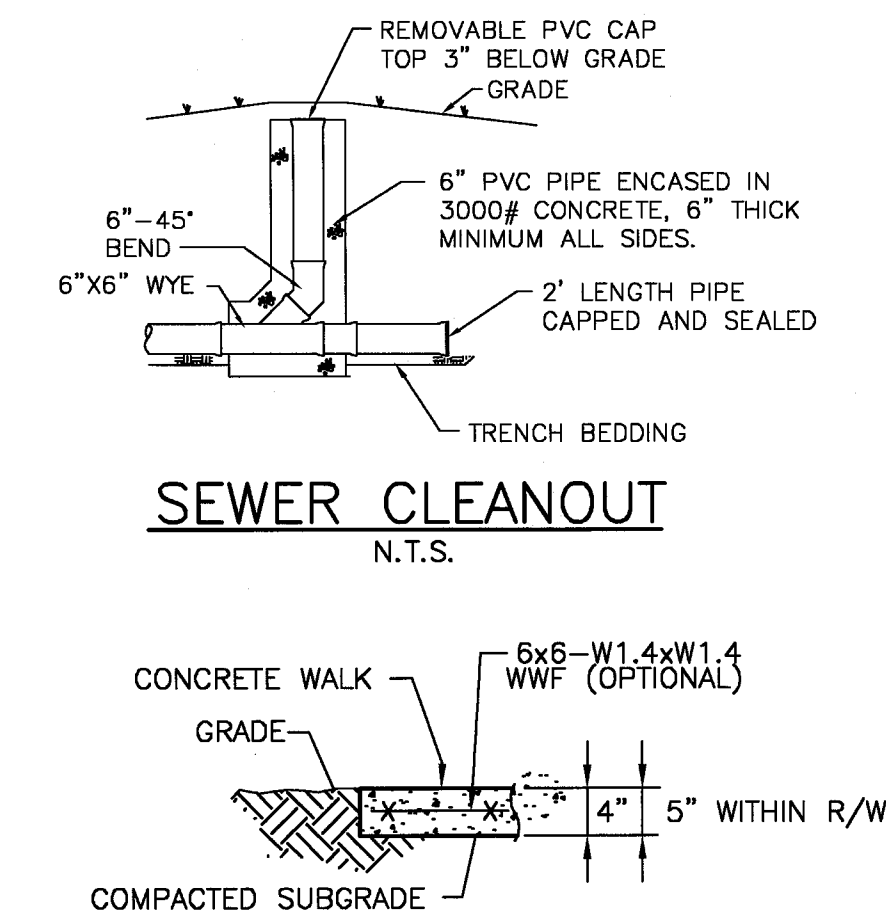
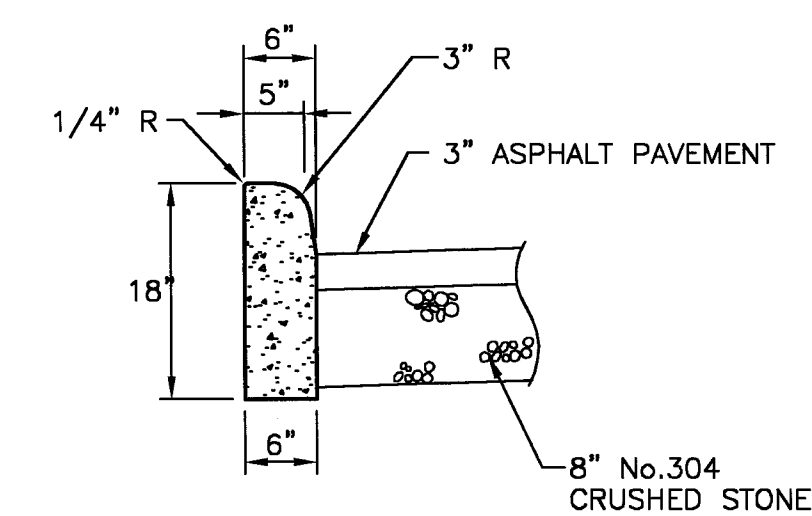
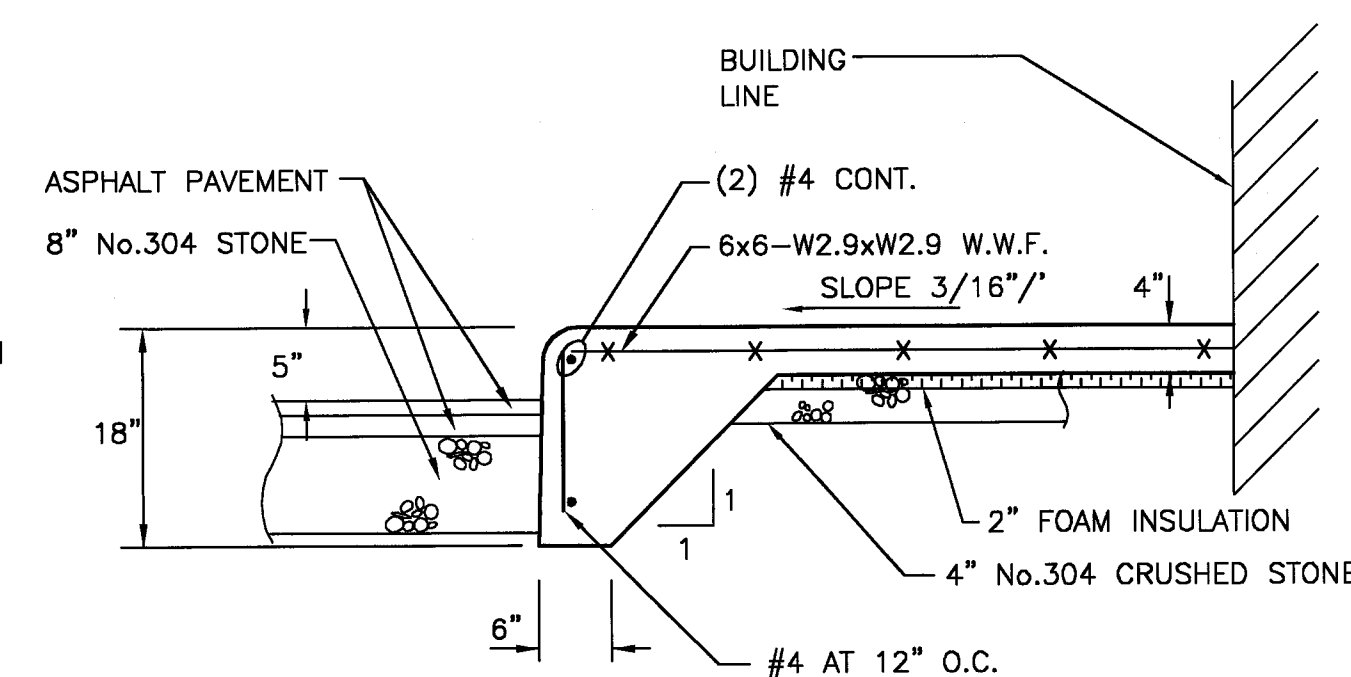
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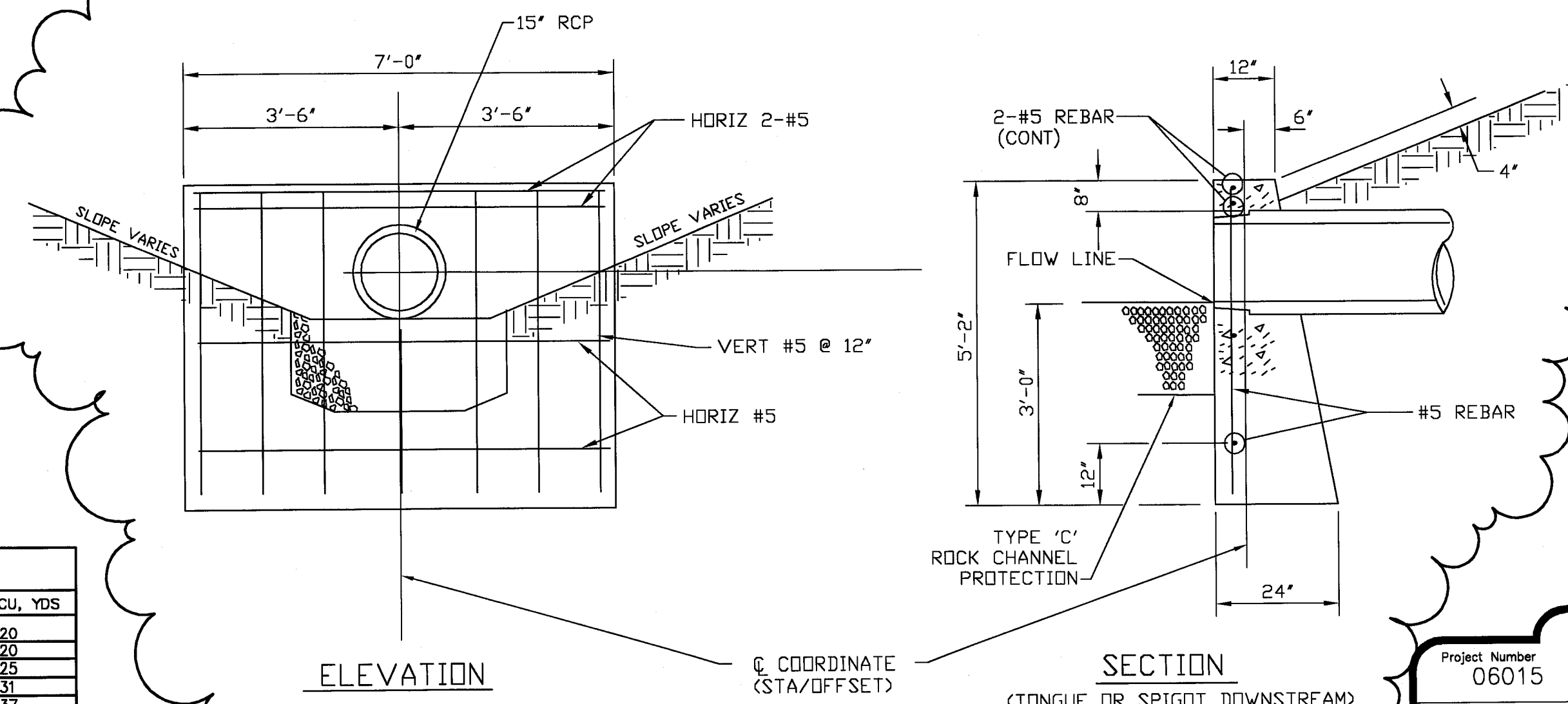


ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	ODOT 448 ASPHALT (AASHTO-M226)	1.5"
2	ODOT 301 BITUMINOUS AGG. BASE (AASHTO-M226)	2.5"
3	ODOT 304 AGGREGATE	6"

ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	ODOT 451 REINFORCED CONCRETE W/ 1 LAYER 6x6-W2.9xW2.9 CLASS 'S' CONC.	6"
2	ODOT 304 AGGREGATE	4"



HEADWALL				
D	W	H	T	CONC. CU, YDS
8"	2'-0"	3'-0"	12"	.20
12"	2'-0"	3'-0"	12"	.20
15"	2'-6"	3'-2"	12"	.25
18"	3'-0"	3'-3"	12"	.31
24"	3'-6"	3'-4"	12"	.37



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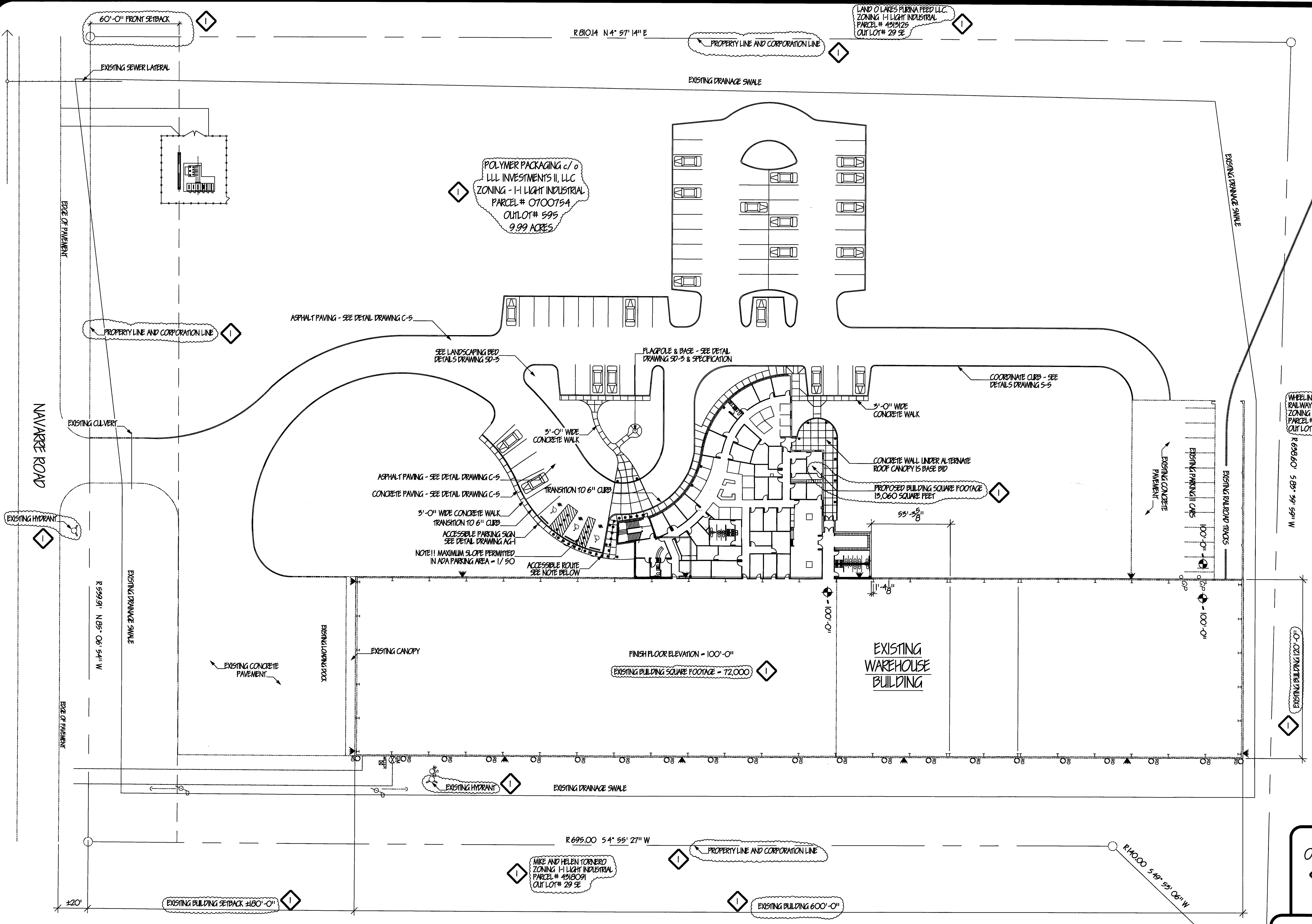
Project Number
06015

Date 9-25-06

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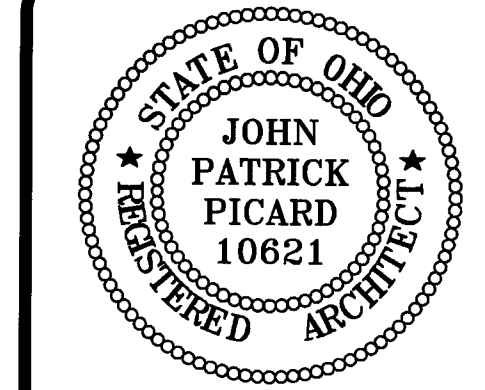
NOTE!!!
* PARKING SPACES AND ACCESSIBLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.

NOTE!!!
● INDICATES ACCESSIBLE ROUTE TO ENTRY OF NEW OFFICE BUILDING. SLOPE NOT TO EXCEED 1:20.
NO VERTICAL CHANGES IN ELEVATION/LEVEL MORE THAN 1/4"

SITE PLAN
1" = 30'-0"

EXISTING PARKING - 11 CARS
PROPOSED PARKING - 70 CARS
TOTAL PARKING - 81 CARS

PARKING COMPLETION (MIXED USE)
BUSINESS 13,060 SF @ 200 SF PER SPACE - 65 SPACES
INDUSTRIAL 6 EMPLOYEES MAX x 15 + 5 = 14 SPACES
TOTAL REQUIRED - 79 SPACES



9-19-06
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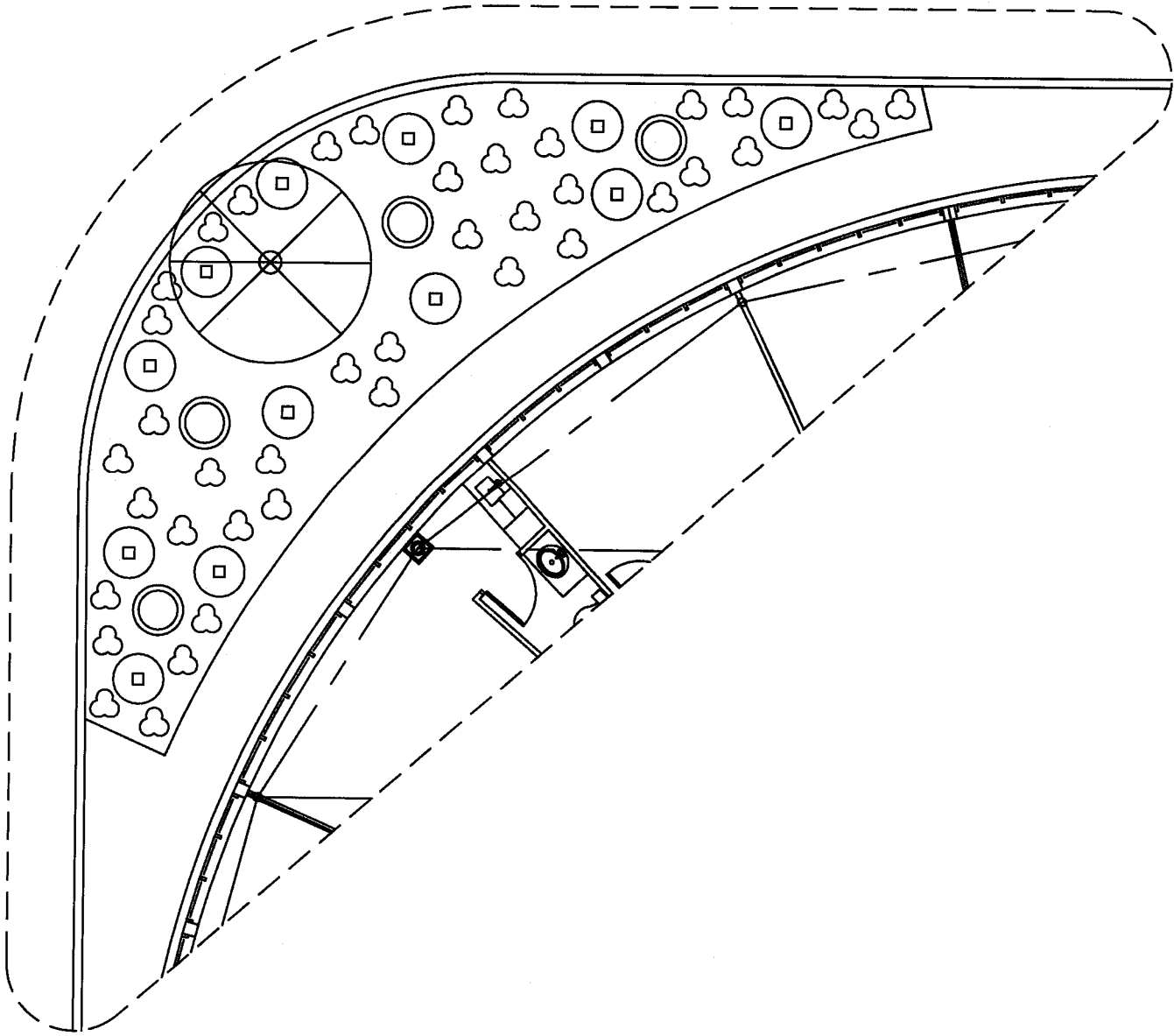
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**POLYMER PACKAGING
OFFICE BUILDING ADDITION**
PARCEL # 0700754
OUTLOT # 595
800 NAVARRE ROAD S.W.
MASSILLON, OHIO

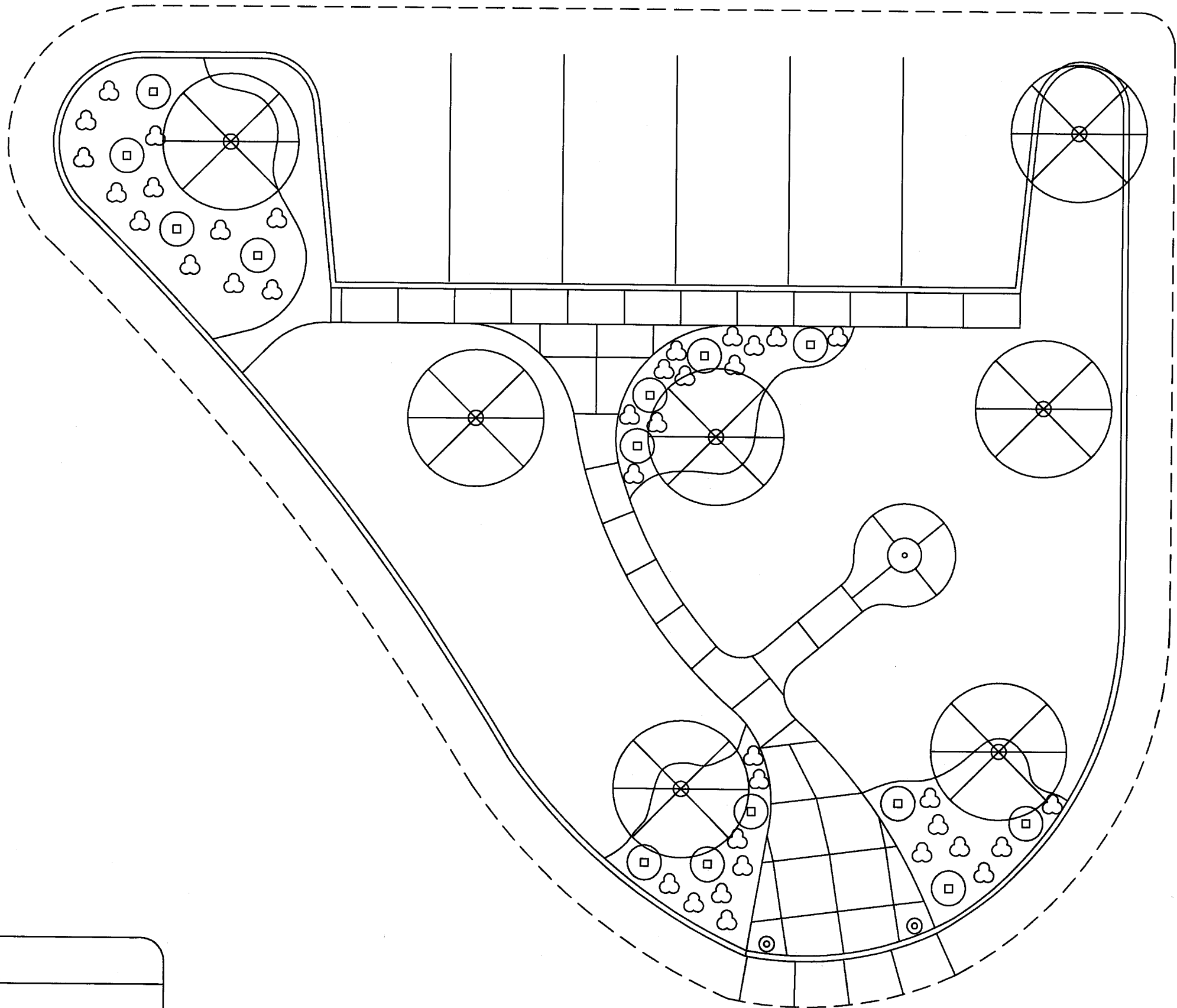
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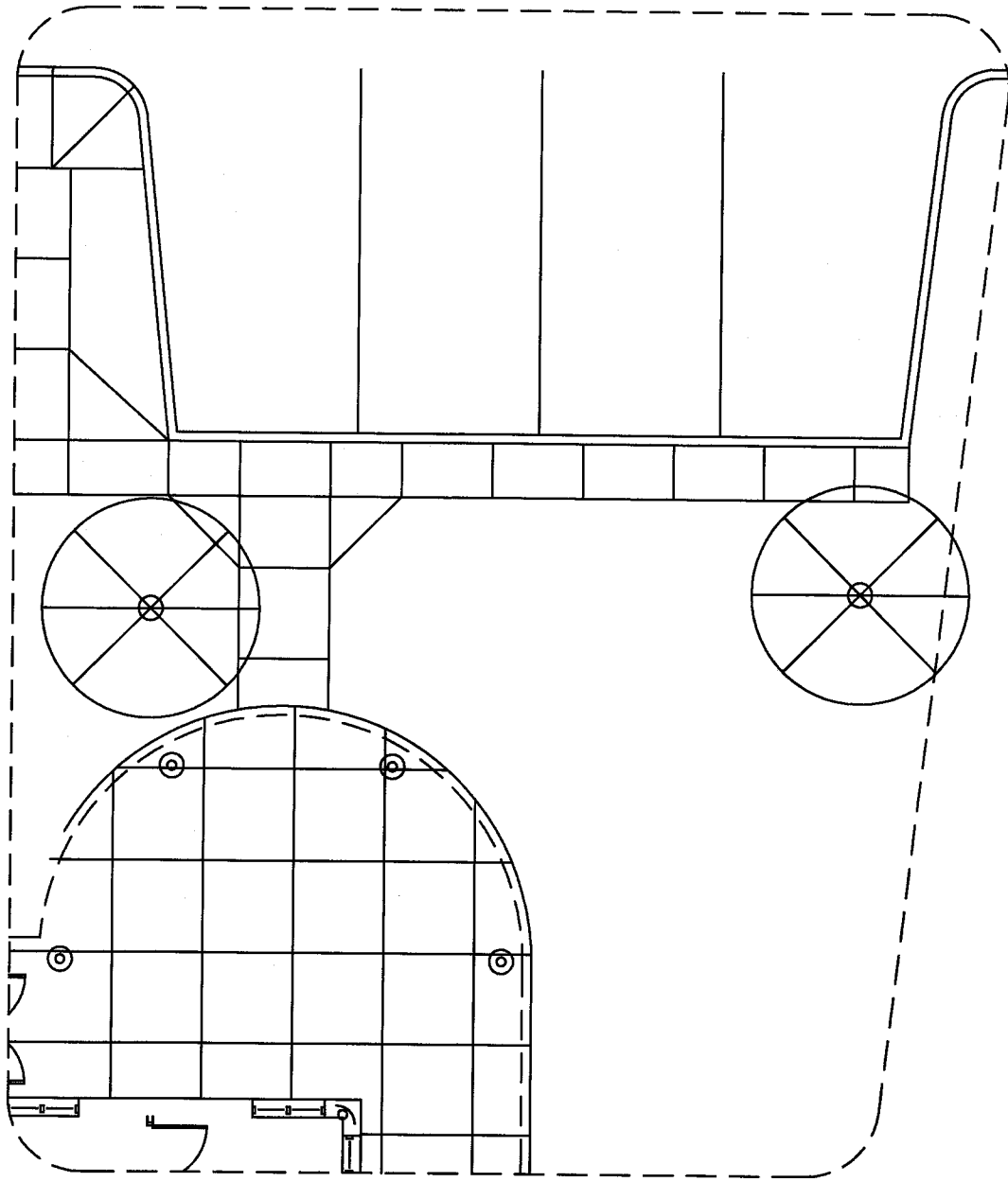
PLANT LEGEND		
SYMBOL	PLANT NAME	SIZE
	SUMMER SUN DAYLILY	2 GALLON CONTAINER MINIMUM
	THORNTLESS HONEY LOCUST	2 1/2" CALIPER MINIMUM BALLED AND BURLAPED
	CALGARY CARPET	2 GALLON CONTAINER MINIMUM
	WHITE SPRUCE	6'-0" TALL MINIMUM BALLED AND BURLAPED
	HARDY GRASS	5 GALLON CONTAINER MINIMUM



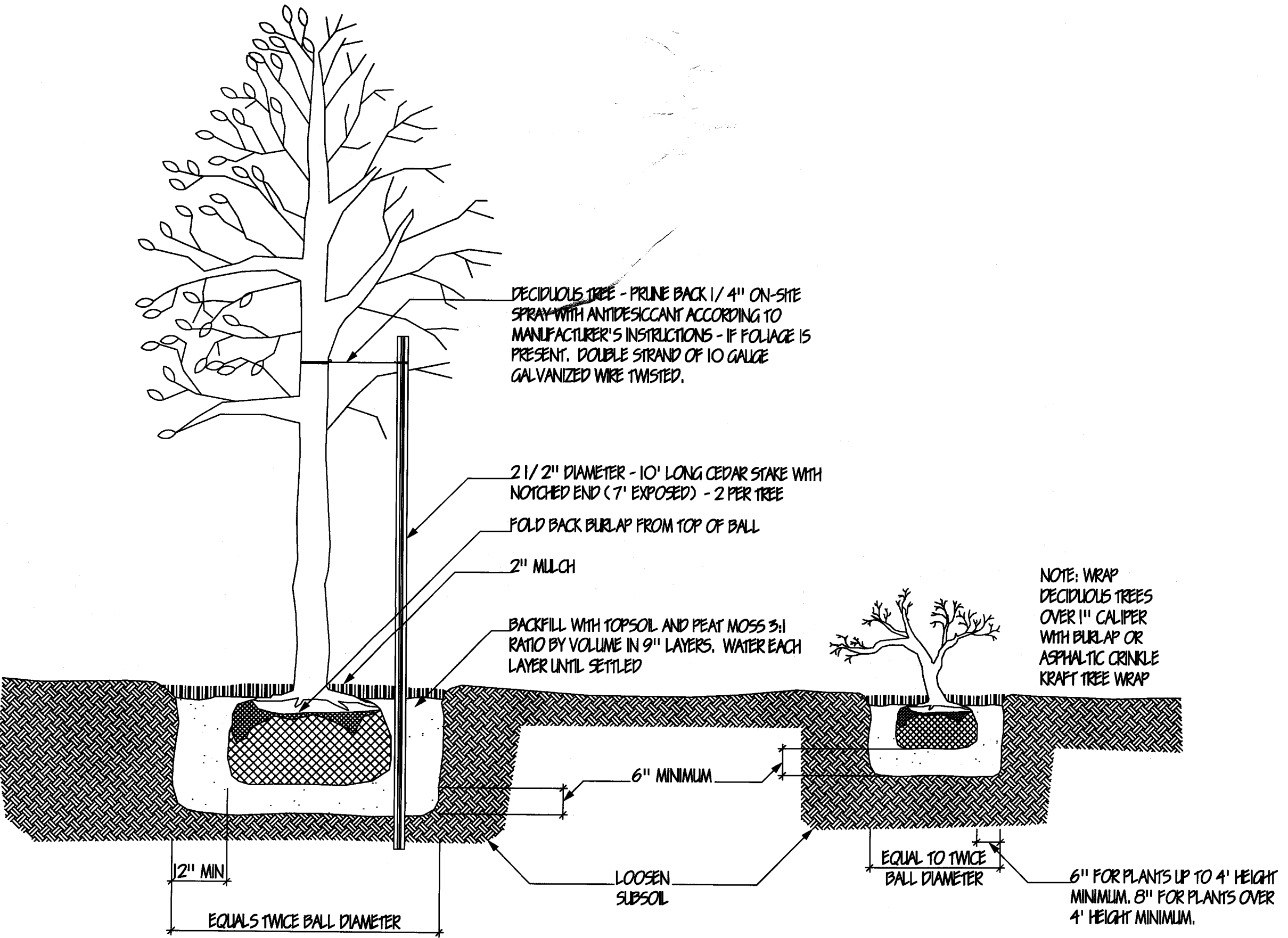
LANDSCAPING BED DETAIL A
1" = 10'-0"



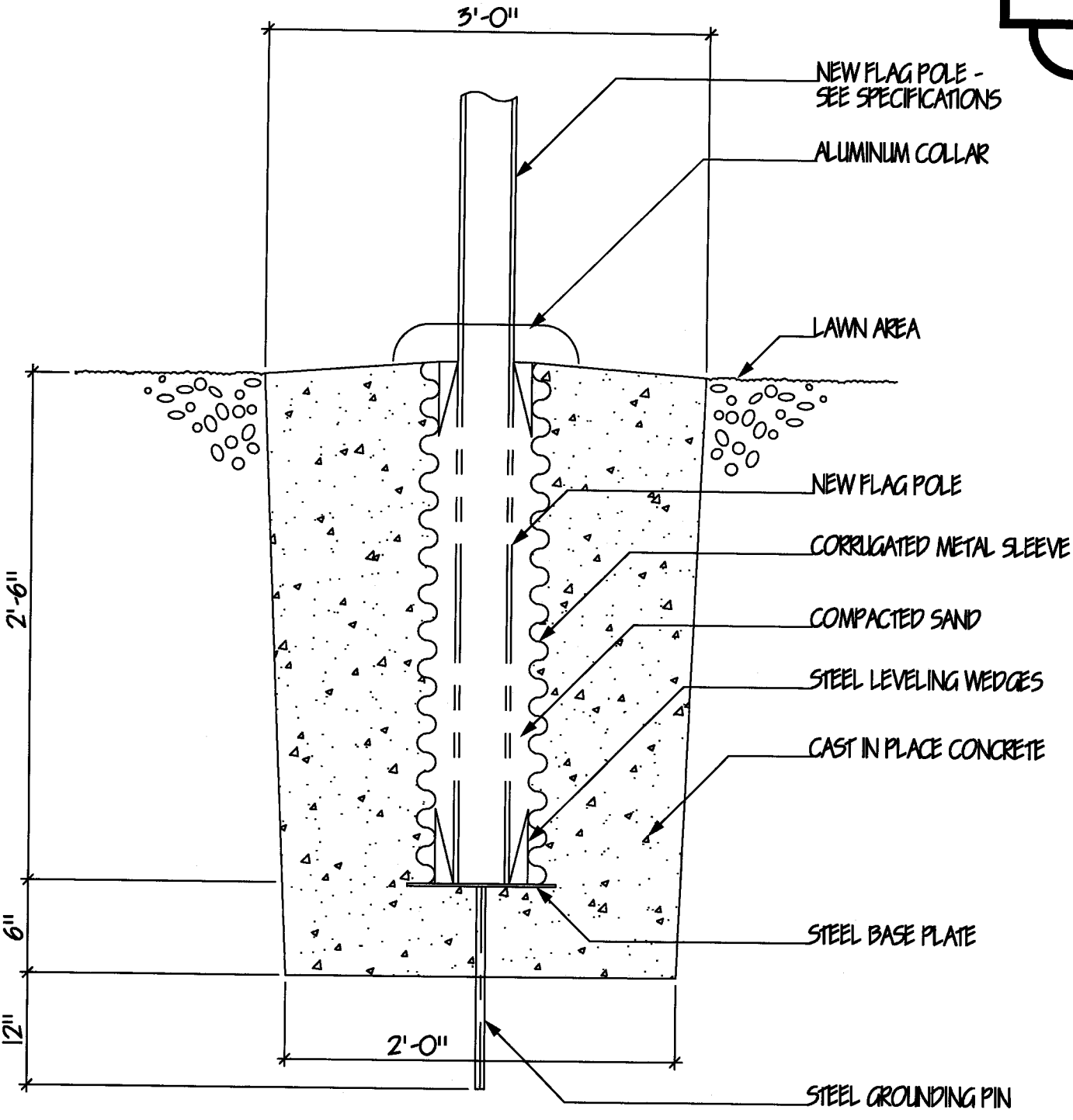
LANDSCAPING BED DETAIL B
1" = 10'-0"



LANDSCAPING BED DETAIL C
1" = 10'-0"



TREE PLANTING DETAIL
NOT TO SCALE



FLAG POLE BASE DETAIL
NO SCALE

TOPSOIL:
CLEAN AND / OR REUSE EXISTING TOPSOIL ASTM D 5268 WITH A PH RANGE OF 5.5 TO 7.0 WITH 4% ORGANIC MATERIAL, FREE OF STONES 1" DIAMETER AND LARGER, ROOTS, SOIL, CLAY LUMPS AND OTHER EXTRANEIOUS MATERIALS. PLACE TOPSOIL UNIFORMLY TO A DEPTH OF 3" PER ODOT SPECIFICATION NO. 655.

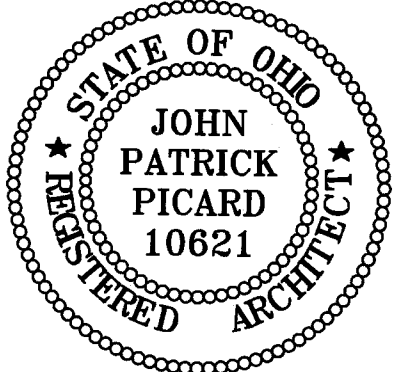
PREPARATION & FERTILIZER:
AFTER FINISH GRADING THE NEW LAWN AREA SHALL BE SMOOTH RAKED AND THEN FERTILIZED WITH BASIC STARTER FERTILIZER HAVING NITROGEN 10, PHOSPHORUS 18, AND POTASH 10. MIX INTO TOP 2" OF TOPSOIL.

LAWN SEED MIXTURE:

	PROPORTION BY WEIGHT	MINIMUM DENSITY	MINIMUM GERMINATION
POA PRATENSIS VAR. "ADELPHI" KENTUCKY BLUEGRASS	20%	95%	80%
POA PRATENSIS VAR. "RUBRY" KENTUCKY BLUEGRASS	20%	95%	80%
POA PRATENSIS VAR. "MAJESTIC" KENTUCKY BLUEGRASS	15%	95%	80%
LOLIUM PERENNE VAR. "PALMER" PERENNIAL RYEGRASS	20%	98%	90%
FESTUCA RUPESTRIS VAR. "PENNLAWN" RED FESCUE	25%	97%	85%

SEEDING:
APPLY SEED AT THE RATE OF 5 LBS. PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. RAKE IN LIGHTLY. WATER NEW LAWN AREA WITH FINE SPRAY AFTER MULCHING TO SATURATE THE SOIL TO A DEPTH OF 4".

MULCHING:
MULCH NEW LAWN AREAS WITH OAT OR WHEAT STRAW, DRY AND FREE FROM WEEDS AND FOREIGN MATTER DETRIMENTAL TO PLANT LIFE AND THE QUALITY OF THE LAWN. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RE-FERTILIZED, RE-SEEDING AND RE-MULCHED AS DIRECTED AT NO ADDITIONAL COST TO THE OWNER.



9-19-06
REVISION

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