

LEGEND

- 5/8 INCH IRON REBAR WITH CAP FOUND
- MAG NAIL SET
- ⊙ MAG NAIL FOUND
- R/W- RIGHT-OF-WAY
- W- WATER LINE
- S- SANITARY SEWER LINE
- ST- STORM SEWER LINE
- G- GAS LINE
- OE- OVERHEAD ELECTRIC
- UT- UNDERGROUND TELEPHONE
- OT- OVERHEAD TELEPHONE
- OE&T- OVERHEAD ELEC. & TELE.
- X-X- FENCE
- ⊕ GAS LINE MARKER
- ⊕ WATER LINE MARKER
- ⊕ TELEPHONE LINE MARKER
- ⊕ GAS LINE MARKER, TEMPORARY
- ⊕ POWER POLE
- ⊕ GENERAL POLE
- ⊕ LIGHT POLE
- ⊕ ANCHOR
- ⊕ SIGN
- ⊕ CATCH BASIN (C.B.)
- ⊕ MAN HOLE (AS LABELED)
- ⊕ TRAFFIC CONTROL BOX
- ⊕ FIRE HYDRANT
- ⊕ VALVE
- EOP EDGE OF PAVEMENT
- ⊕ GUARDRAIL
- ⊕ SATELLITE DISH
- ⊕ UNDERGROUND STORAGE TANK FILLER CAP
- ⊕ TELEPHONE CAR BOOTH
- T/C TOP OF COVER
- FL FLOWLINE

- CONCRETE
- GRAVEL
- OVERHEAD CANOPY

NOTES:

OUPS REFERENCE NUMBER 41900716 AND 41900717
 OHIO POWER ORDER NUMBER 072675444
 UTILITY LOCATIONS SHOWN HEREON WERE COMPILED FROM PLAN INFORMATION AND/OR FIELD LOCATION OF SURFACE UTILITY STRUCTURES EXACT LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN.

CONTOUR INTERVAL = 1 FOOT

DATA USED:

DEEDS - VOL. 665, PG. 685 VOL. 662, PG. 124
 VOL. 764, PG. 195 VOL. 514, PG. 736
 VOL. 596, PG. 800 VOL. 535, PG. 894
 VOL. 365, PG. 252 VOL. 9, PG. 301
 VOL. 383, PG. 186 VOL. 27, PG. 404
 VOL. 706, PG. 526

WATERLINE PLANS PROVIDED BY THE TUSCARAWAS COUNTY WATER & SEWER DISTRICT ALONG STATE ROUTE 183 EAST OF THE INTERSECTION OF STATE ROUTE 800 AND AN 8-INCH WATERLINE AND 20 FOOT PERMANENT EASEMENT BEHIND CROSSROAD SHOPPING CENTER

RIGHT-OF-WAY PLANS: SHEET 58 OF 60
 TUS-80-1.01/CAR-80-(0.00-0.74)

MAP OF SURVEY OF A 1.854 ACRE TRACT BY BUCKEYE SURVEYING SERVICES, INC. DATED: FEB., 1999.

OHIO BAR TITLE INSURANCE COMPANY-TITLE COMMITMENT NUMBER 00-397 DATED: DECEMBER 5, 2000 @ 8 a.m.

OHIO BAR TITLE INSURANCE COMPANY-TITLE COMMITMENT NUMBER 92-0B-120 DATED: JANUARY 14, 1993 @ 3:35 p.m.

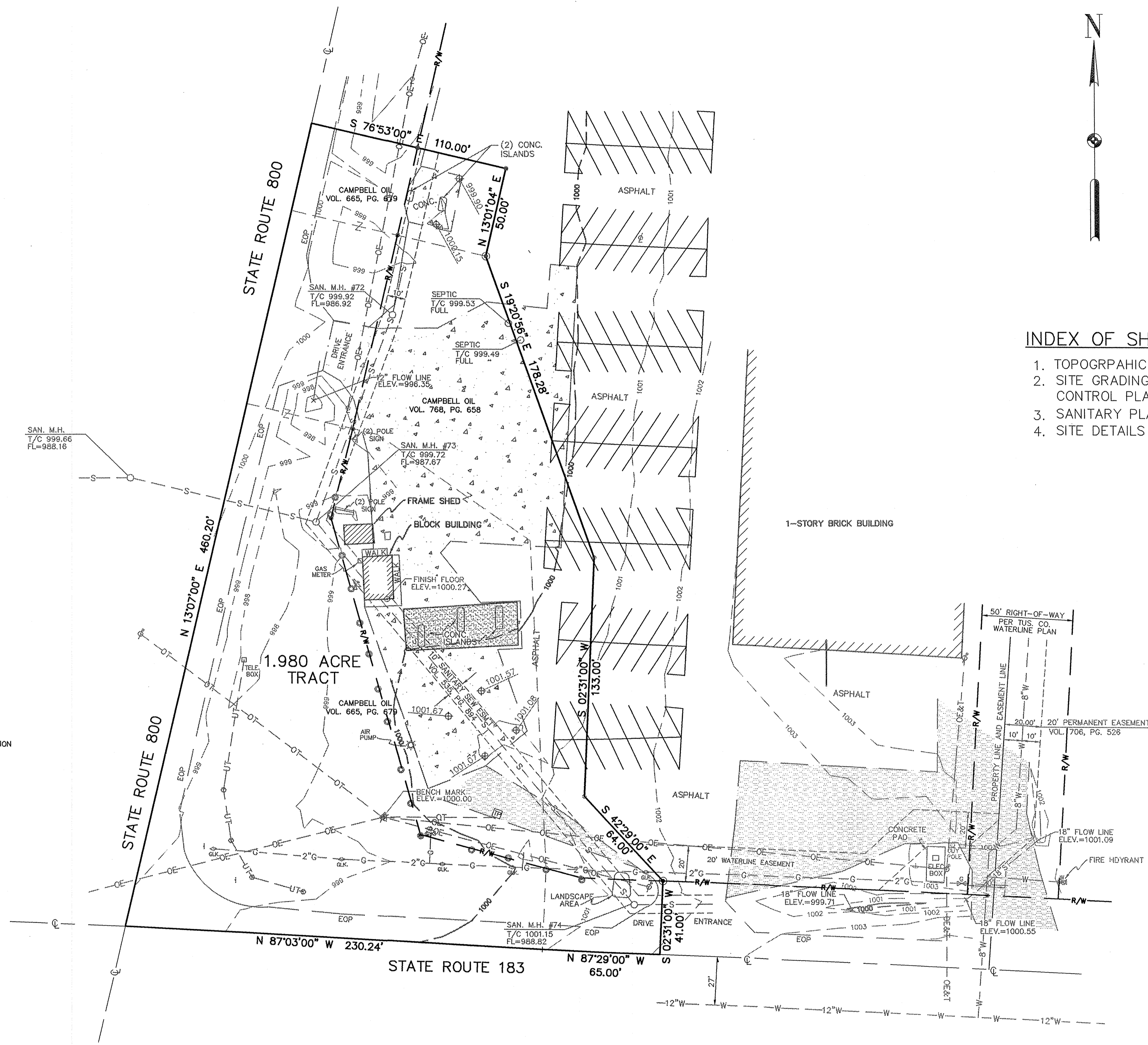
BENCHMARK

60d NAIL 1"± UP WEST SIDE OF POWER POLE #988-428
 150'± EAST OF CENTERLINE OF STATE ROUTE 800 AND STATE ROUTE 183.
 ELEVATION = 1000.00 (ASSUMED)

UNDERGROUND UTILITIES

2 WORKING DAYS

 BEFORE YOU DIG
 CALL TOLL FREE 800-362-2764
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY



INDEX OF SHEETS

1. TOPOGRAPHIC MAP
2. SITE GRADING AND EROSION & SEDIMENT CONTROL PLAN
3. SANITARY PLAN & PROFILE/UTILITY PLAN
4. SITE DETAILS

DESIGNED BY:	DATE:	DESCRIPTION:
DRAWN BY: KMD	DATE:	DESCRIPTION:
REVISION BY: 41	DATE:	DESCRIPTION:
REVISION BY: KMD	DATE: 6/11/01	DESCRIPTION: ADDED TRACT LINES
REVISION BY: JDS	DATE: 5/7/01	DESCRIPTION: SAN. M.H. #74. FL

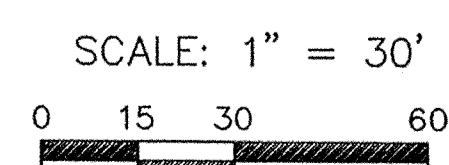
SCALE:
 HORIZ: 1"=30'
 CONTOUR INTERVAL=1'

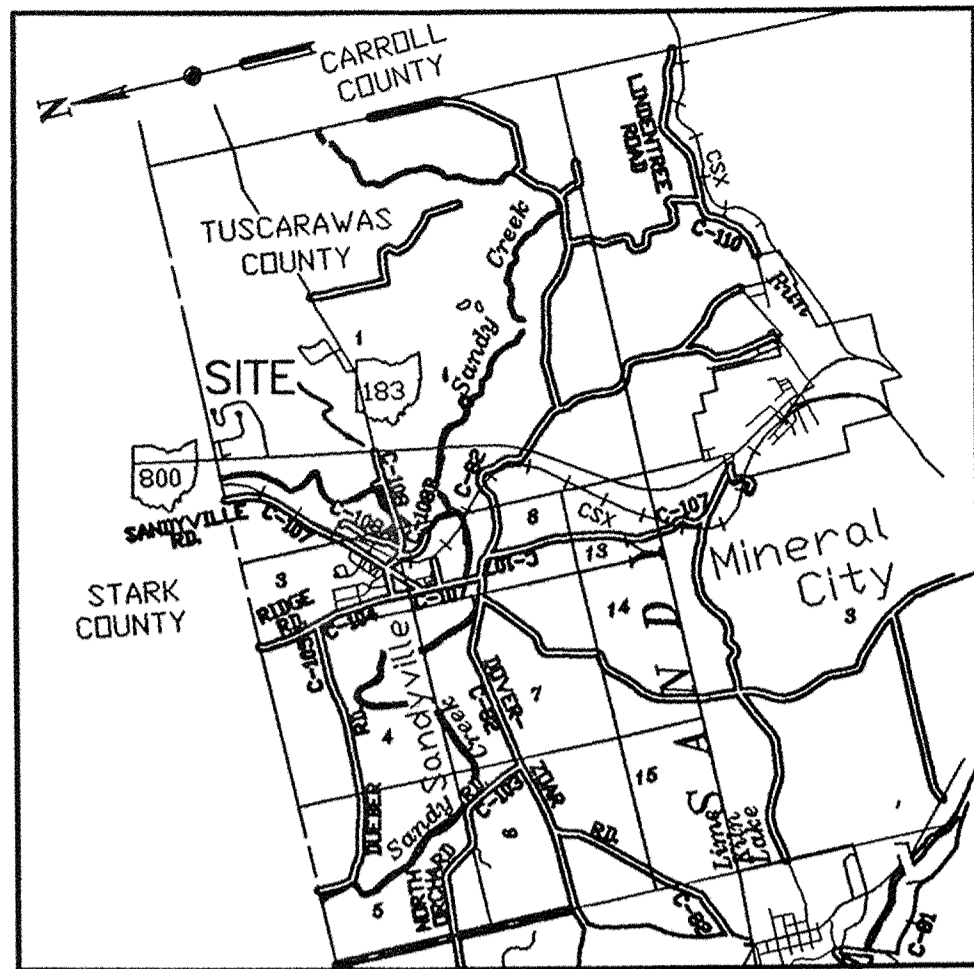
TOPOGRAPHIC MAP
CROSSROADS - SHELL STATION
 SITUATED IN THE TOWNSHIP OF SANDY, COUNTY OF TUSCARAWAS, STATE OF OHIO AND BEING PART OF LOT 27 OF THE 1ST QUARTER

HAMMONTREE & ASSOCIATES, LTD.
 ENGINEERS, PLANNERS, SURVEYORS
 CANTON PITTSBURGH AKRON
 5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720
 PHONE: CANTON: (330)/489-8817 AKRON: (330)/633-7274
 TOLL FREE: 1-800-394-8817 FAX: (330)/489-0149
 www.hammontree-engineers.com



BASIS OF BEARING:
 N 13°07'00" E THE CENTERLINE OF STATE ROUTE 800
 BY A DEED RECORDED IN VOLUME 665, PAGE 679 OF THE TUSCARAWAS COUNTY DEED RECORDS.





LEGEND

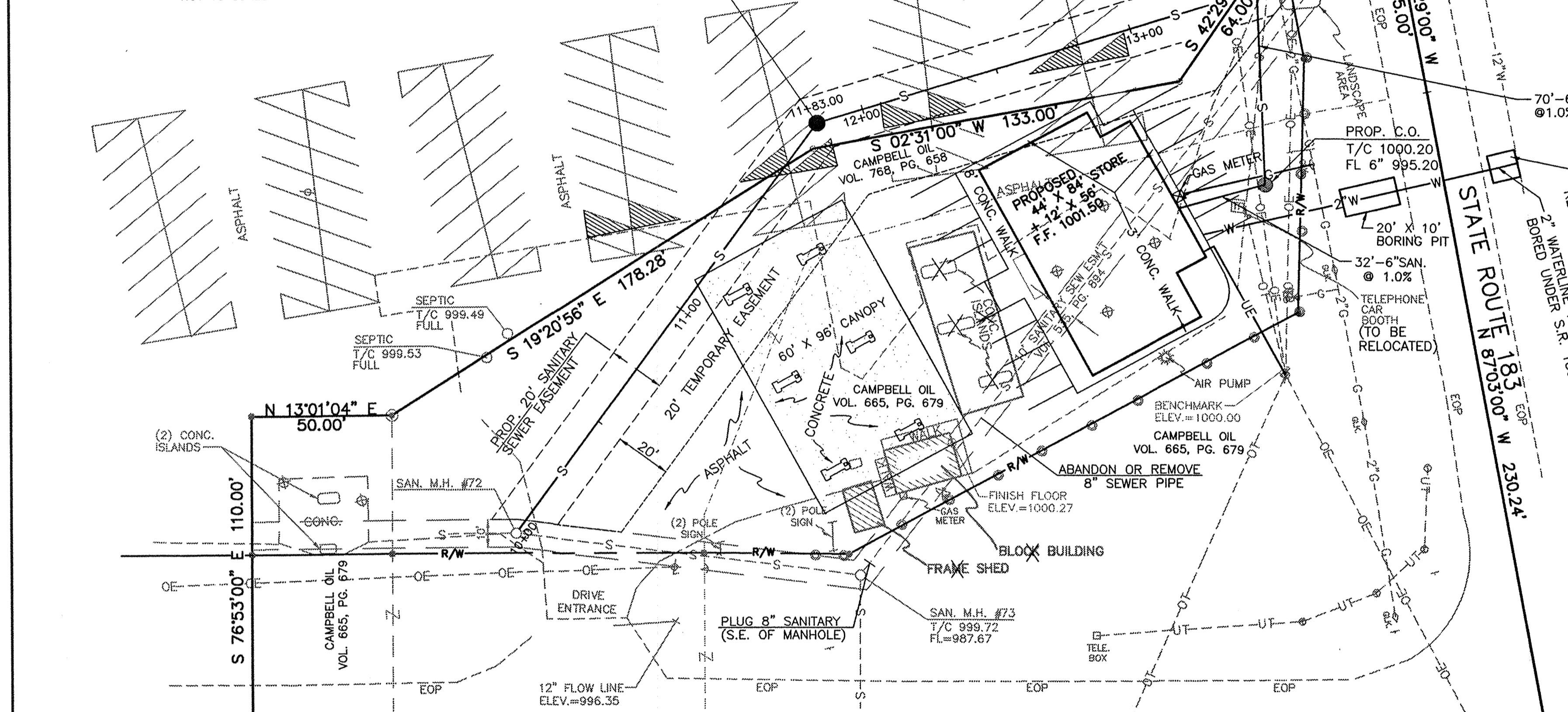
- C.O. PROPOSED CLEANOUT
- PROPOSED SANITARY MANHOLE
- S — SAN. SEWER
- W — WATERLINE
- G — GAS LINE
- UE — UNDERGROUND ELECTRIC LINE
- UT — UNDERGROUND TELEPHONE LINE

SANDY VALLEY MANAGEMENT, INC. VOL. 660, PG. 304

1-STORY BRICK BUILDING

PROP. SAN. M.H. #1 STA. 11+83.00

VICINITY MAP NOT TO SCALE



BENCHMARK:
TOP OF COVER OF SANITARY MANHOLE #325
14.63' EAST OF THE CENTERLINE OF BURKEY ROAD N.W.
ELEV. = 1142.61



SANITARY SEWER NOTES

- SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF CONSTRUCTION.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT (330-874-3282). A MINIMUM OF 72 HOURS NOTICE IS REQUIRED TO SCHEDULE THIS MEETING.
- THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
- APPROVAL BY THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY MAINTAINING EXISTING SANITARY FLOW DURING THE CONSTRUCTION AND TESTING OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR'S METHODS FOR MAINTAINING FLOW MUST BE APPROVED BY THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT AT THE PRE-CONSTRUCTION MEETING.
- ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISHED GRADE SHALL BE COMPLETED WITHIN THE RIGHTS-OF-WAY AND EASEMENTS PRIOR TO SANITARY SEWER CONSTRUCTION.
- BULKHEADS SHALL BE ERECTED IN EXISTING MANHOLES WHERE TAPS FOR NEW MAINLINE SEWERS ARE MADE AND SHALL REMAIN IN PLACE UNTIL THE NEW SEWERS ARE COMPLETE, TESTED AND APPROVED. IN CASES WHERE A BULKHEAD WOULD INTERRUPT THE FLOW FROM EXISTING SERVICE CONNECTIONS, THE BULKHEAD SHALL BE PLACED IN THE FIRST NEW MANHOLE UPSTREAM OF THE EXISTING MANHOLE.
- MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.
- SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.
- NO CHANGES TO SANITARY SEWER SERVICE LATERAL LOCATIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT.
- SERVICE STACKS SHALL BE DUCTILE IRON PIPE REGARDLESS OF MAIN SEWER MATERIAL. A CAST IRON TEE SHALL BE INSTALLED IN THE MAIN SEWER.
- MINIMUM COVER OVER SANITARY SEWER SHALL BE 3 FT.
- ACCEPTABLE SANITARY SEWER PIPE MATERIALS ARE AS FOLLOWS:

PIPE	JOINTS	INSTALLATION	
PVC SMOOTH EXTERIOR:	ASTM D-3034	ASTM D-3212	ASTM D-2321
CLOSED PROFILE (DUAL WALL) CORRUGATED (DUAL WALL) RIBBED (OPEN PROFILE)	ASTM F-794	ASTM D-3212	
PVC CORRUGATED EXTERIOR:	ASTM F-949	ASTM D-3212	ASTM D-2321
VCP EXTRA STRENGTH:	ASTM C-700	ASTM C-425	ASTM C-12
DCIP (CLASS 52):	AWWA C-151	AWWA C-110/C-111	AWWA C-151
ABS COMPOSITE:	ASTM D-2680	ASTM D-2235	ASTM D-2680
PVC COMPOSITE:	ASTM D-2680	ASTM D-2564	ASTM D-2680
- ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEOTAPE TO THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT. THE VIDEOTAPE PROCEDURE SHALL FOLLOW THE TECHNICAL SPECIFICATIONS AND APPROVAL OF THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT.
- A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE PIPE OF 8-INCH DIAMETER AND LARGER. THE TEST SHALL BE CONDUCTED AT LEAST 30 DAYS AFTER COMPLETION OF BACKFILL AND SHALL FOLLOW THE TECHNICAL SPECIFICATIONS AND APPROVAL OF THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH ASTM D-3034.
- ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS AND MEET THE APPROVAL OF THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT. THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL./INCH OF DIAMETER / MILE / DAY.

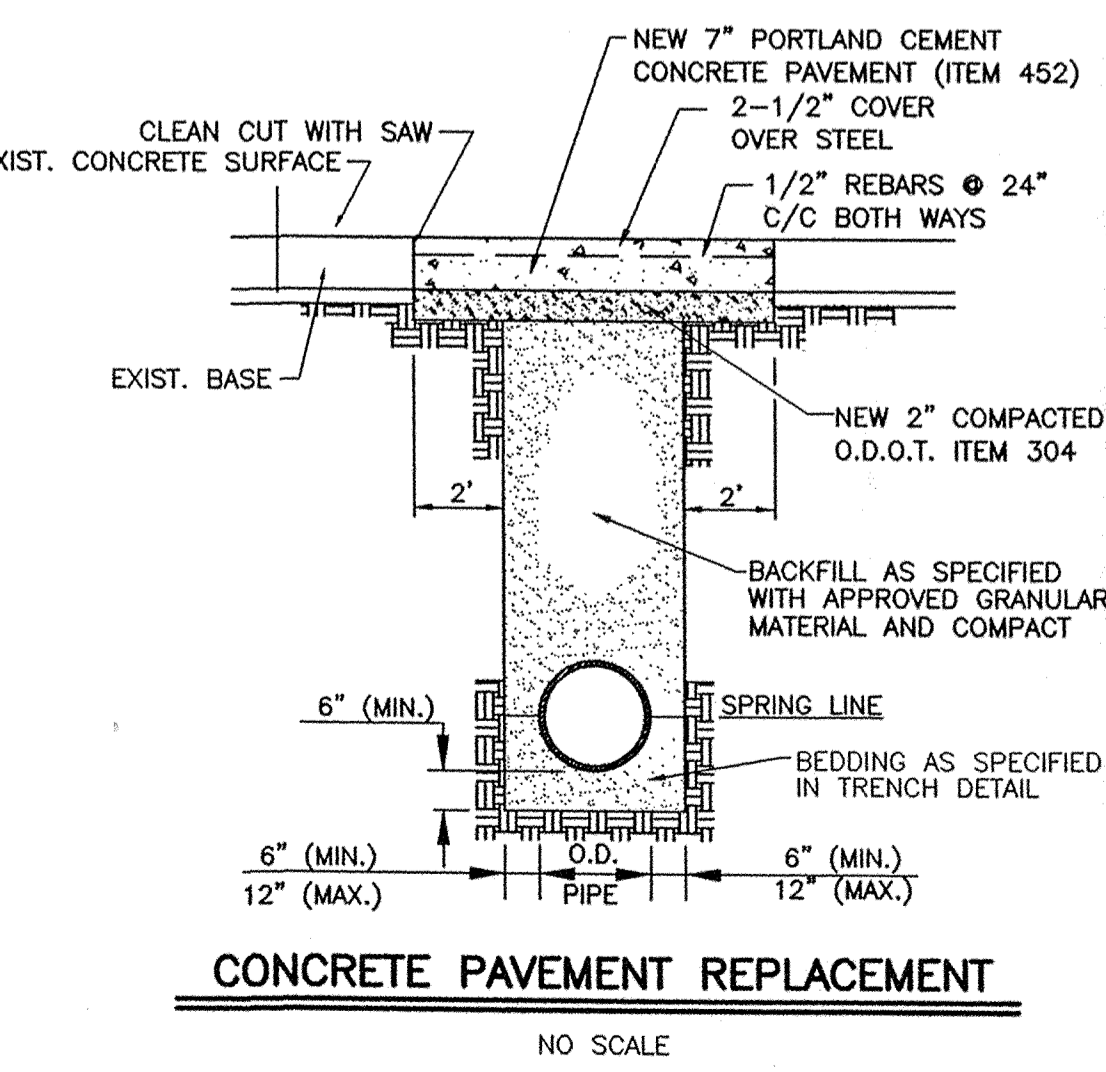
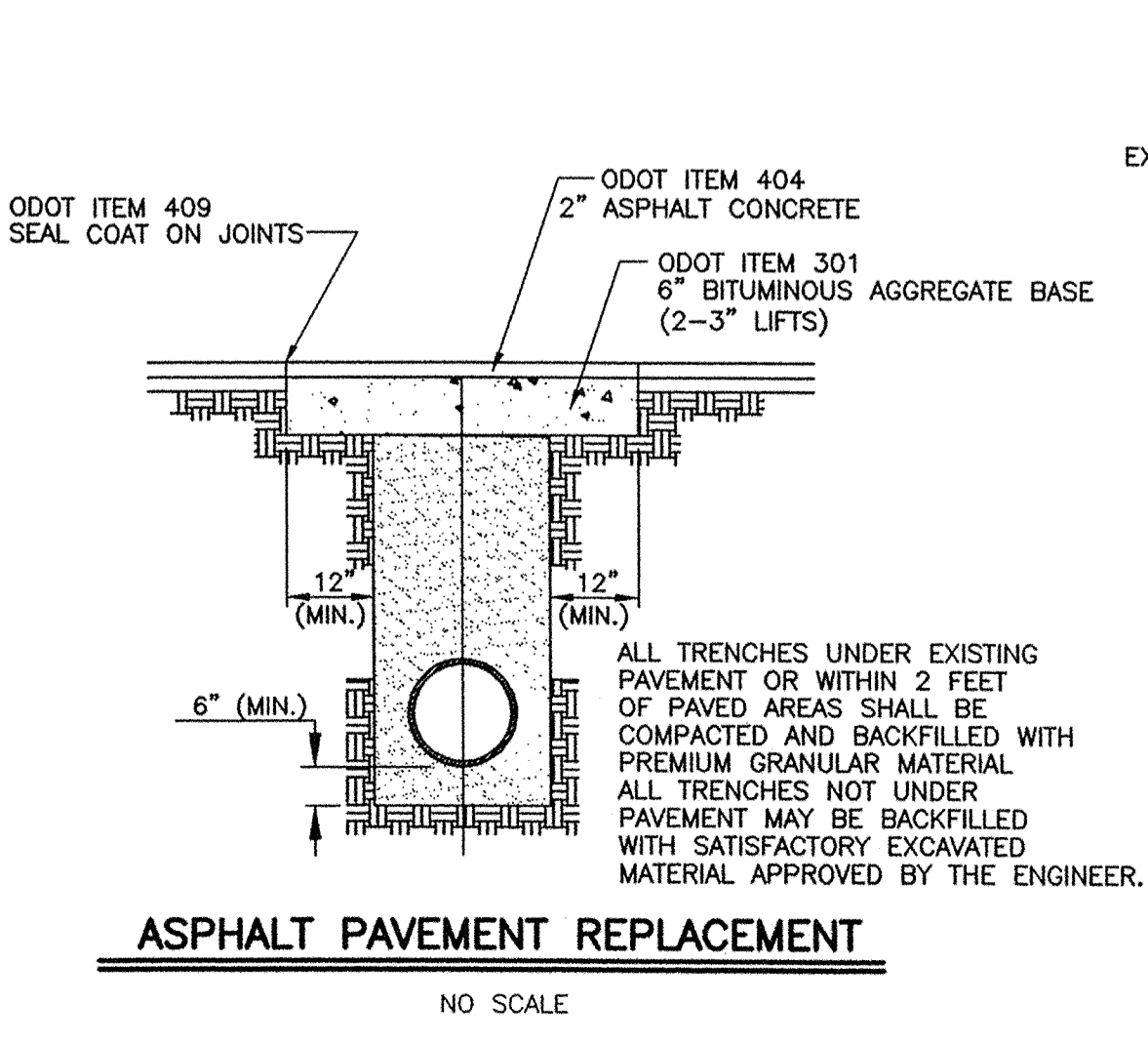
- MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND C-443. ALL MANHOLES SHALL BE AIR / VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244. (SEE SHEET 4 FOR DETAIL)
- CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.
- MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING SITE GRADING. MANHOLE COVERS MAY NOT BE BURIED. UPON COMPLETION OF CONSTRUCTION AND RESTORATION, ALL MANHOLES, PROPOSED AND EXISTING, SHALL BE IN CONFORMANCE IN ALL RESPECTS WITH SPECIFICATIONS AND MEET THE APPROVAL OF THE TUSCARAWAS COUNTY WATER AND SEWER DEPARTMENT.
- ALL SANITARY SEWER TRENCHES BENEATH PROPOSED OR EXISTING PAVEMENT SHALL BE COMPACTED IN LIFTS AND WITH MATERIAL AS SHOWN IN THE PAVEMENT REPLACEMENT DETAIL ON THIS SHEET AND ALL APPLICABLE O.D.O.T. SPECIFICATIONS.

UTILITY NOTES

- EXISTING UTILITIES TO REMAIN, WHICH ARE CRUSHED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- ALL EXISTING UTILITIES SERVING THIS PROPERTY SHALL BE PROPERLY TERMINATED AT THE RIGHT-OF-WAY LINE IN COMPLIANCE WITH COUNTY REGULATIONS UNLESS OTHERWISE NOTED.
- ANY UTILITIES FOUND DURING EXCAVATION, NOT SHOWN ON PLAN, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND/OR ENGINEER.
- EACH SUBCONTRACTOR SHALL OBTAIN HIS OWN PERMITS AND CONTACT THE UTILITY COMPANY FOR VERIFICATION AND LOCATION OF HOOK-UP PRIOR TO ANY WORK BEING DONE.
- UTILITIES SHOWN WERE TAKEN FROM RECORDS OF RESPECTIVE UTILITY COMPANIES AND FROM A TOPOGRAPHIC SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND OR OVERHEAD UTILITIES ADJACENT TO OR UPON THE PREMISES SHOWN ON THE PLAN. CALL OUPS PRIOR TO EXCAVATION.
- COORDINATE UTILITY CONNECTIONS AT THE BUILDING WITH THE MECHANICAL DRAWINGS.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF BUILDING SEWERS TOWARDS THE LATERAL SEWER IN STRICT ACCORDANCE WITH THE GOVERNING AUTHORITIES PRIOR TO STARTING CONSTRUCTION.
- ALL NEW UTILITIES SHALL BE LAID UNDERGROUND.
- CONTRACTOR TO CONTACT THE TUSCARAWAS COUNTY WATER & SEWER DEPARTMENT FOR TAPPING INTO THE EXISTING 12" WATERLINE AND REQUIRED PERMITS.
- TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
- THE 2" WATER SERVICE LATERAL TO BE DRISCO PIPE 5100 ULTRALINE ASTM D-2737 PE 3408 OR APPROVED EQUAL.
- THE ROAD CROSSING FOR THE 2" WATER SERVICE LATERAL SHALL BE INSTALLED BY PUSH OR JACKING METHODS. IF AUGER IS USED, THEN AUGER SHALL BE IN CASING. (NO FREE BORE PERMITTED)
- WATERLINE PRESSURE TESTING SHALL CONFORM TO AWWA C600 AND DISINFECTION SHALL CONFORM TO AWWA C651.

ESTIMATED QUANTITIES		
QUAN.	UNIT	DESCRIPTION
SANITARY		
373	LIN. FT.	8" P.V.C. GRAVITY SEWER PIPE (ASTM D-3034) OR APPROVED EQUAL
1	EACH	6" ON 8" WYE W/6" 45° BEND
102	LIN. FT.	6" GRAVITY SEWER PIPE
1	EACH	MANHOLE COMPLETE (12.93 VERT. FT.)
1	EACH	CLEANOUT
2	EACH	8" PLUG

- X TO BE REMOVED
- () DENOTES RECORD BEARINGS & DISTANCE
- T/C DENOTES TOP OF COVER
- T/CU DENOTES TOP OF CURB



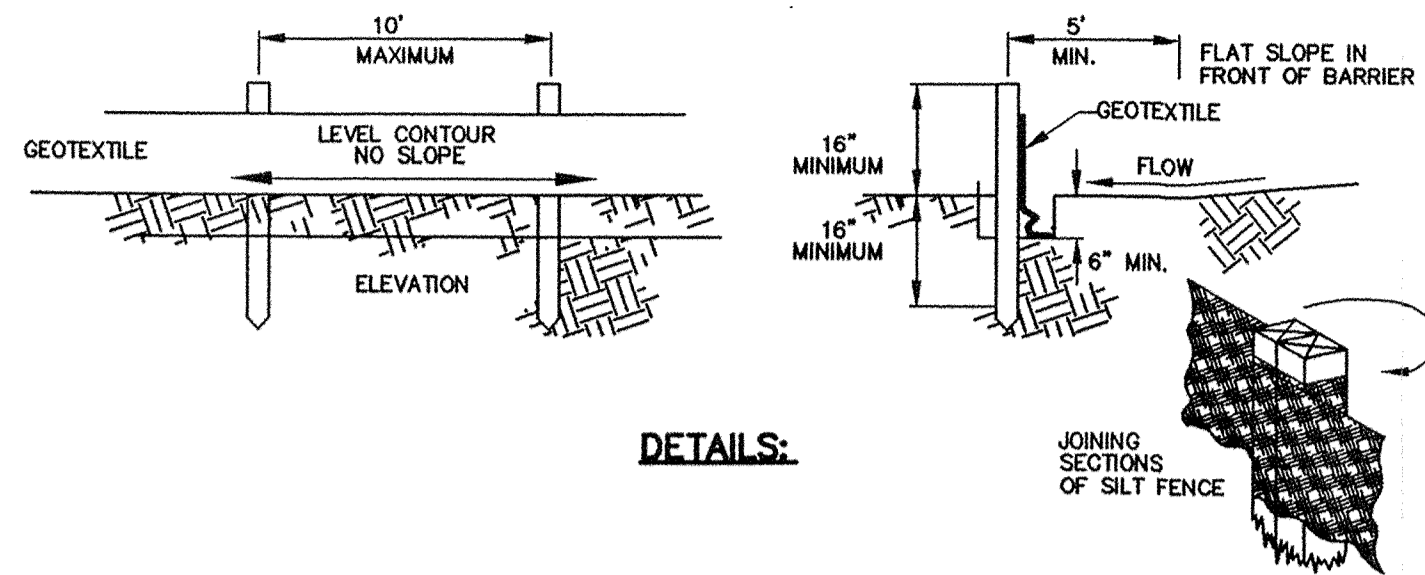
SANITARY PLAN & PROFILE/UTILITY PLAN
CROSSROADS - SHELL STATION
 SITUATED IN THE TOWNSHIP OF SANDY, COUNTY OF TUSCARAWAS,
 STATE OF OHIO AND BEING PART OF LOT 27 IN
 THE FIRST QUARTER (T-10, R-1)

DESIGNED BY: JDS CHECKED BY: JDS
 DRAWN BY: LMD REVIEWED BY: BHB
 F.B. PAGE: _____
 COPYRIGHT: 2001 DATE: JUNE, 2001
 REVISION BY: JDS DATE: 6/28/01 DESCRIPTION: ADDED WATERLINE NOTES

SCALES:
 HORIZ: 1"=30'
 VERT: 1"=10'

HAMMOND & ASSOCIATES, LTD.
 ENGINEERS, PLANNERS, SURVEYORS
 CANTON OHIO
 5233 STONEMAN ROAD, NORTH CANTON, OHIO 44720
 PHONE: CANTON, 330-489-8817 AKRON, 330-633-7274
 TOLL FREE: 1-800-394-8817 FAX: 330-489-0148
 www.hammond-engineers.com

STATE OF OHIO
 BARBARA HAMMOND
 ENGINEER
 6-96001



DETAILS:

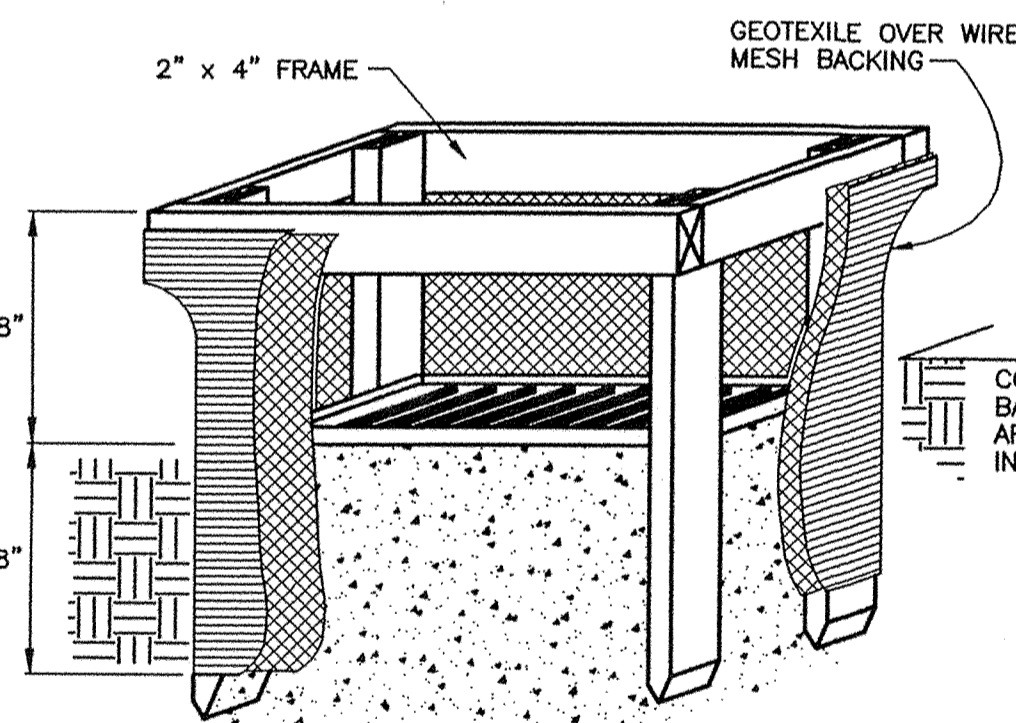
NOTES:

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE FENCE.
- SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
- THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
- MAINTENANCE -- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
 - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED.
 - OTHER PRACTICES SHALL BE INSTALLED.

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 P.S.I. MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT. ² MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26

SILT FENCE

N.T.S.



- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 IN.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 IN. BY 4 IN. CONSTRUCTION GRADE LUMBER. THE 2 IN. BY 4 IN. POSTS SHALL BE DRIVEN 18 IN. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 IN. BY 4 IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20 - 40" SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

N.T.S.

IP

SEED MIX	SEEDING RATE		NOTES:
	LB./AC.	LB./1,000 FT. ²	
GENERAL USE			
CREeping RED FESCUE	20-40	1/2-1	
DOMESTIC RYEGRASS	10-20	1/4-1/2	
KENTUCKY BLUEGRASS	10-20	1/4-1/2	
TALL FESCUE	40	1	
DWARF FESCUE	40	1	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40	1	
CROWN VETCH	20	1/4	DO NOT SEED LATER THAN AUGUST.
TALL FESCUE	20	1/2	
FLAT PEA	20	1/2	DO NOT SEED LATER THAN AUGUST.
TALL FESCUE	20	1/2	
ROAD DITCHES AND SWALES			
TALL FESCUE	40	1	
DWARF FESCUE	90	2 1/4	
KENTUCKY BLUEGRASS	5		
LAWNS			
KENTUCKY BLUEGRASS	60	1 1/2	
PERENNIAL RYEGRASS	60	1 1/2	
KENTUCKY BLUEGRASS	60	1 1/2	FOR SHADED AREAS.
CREeping RED FESCUE	60	1 1/2	

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

PERMANENT SEEDING

TS

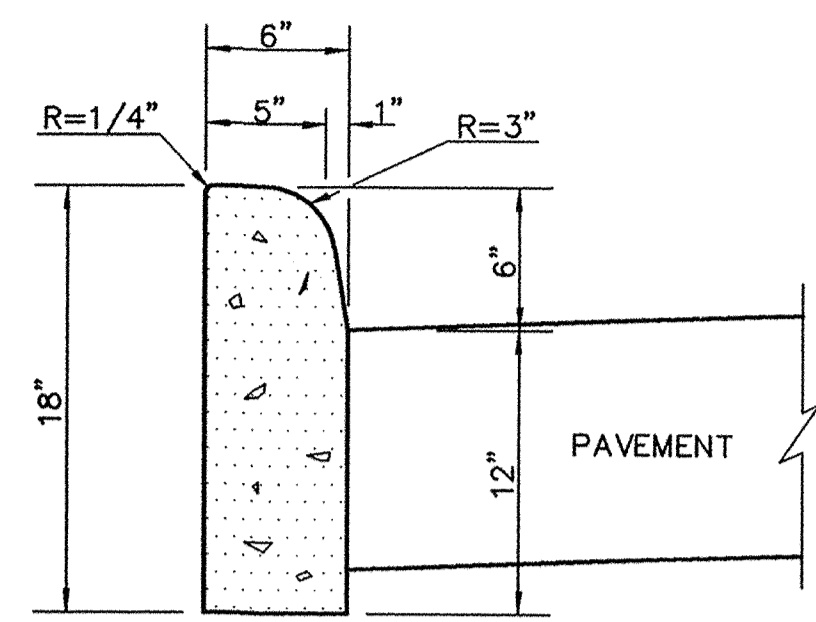
SEEDING DATES	SPECIES	LB./1,000 FT. ²	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR RE-WORKED FOR 45 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
- THE SEED BED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEED BED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER. WHEN FEASIBLE SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR OF CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

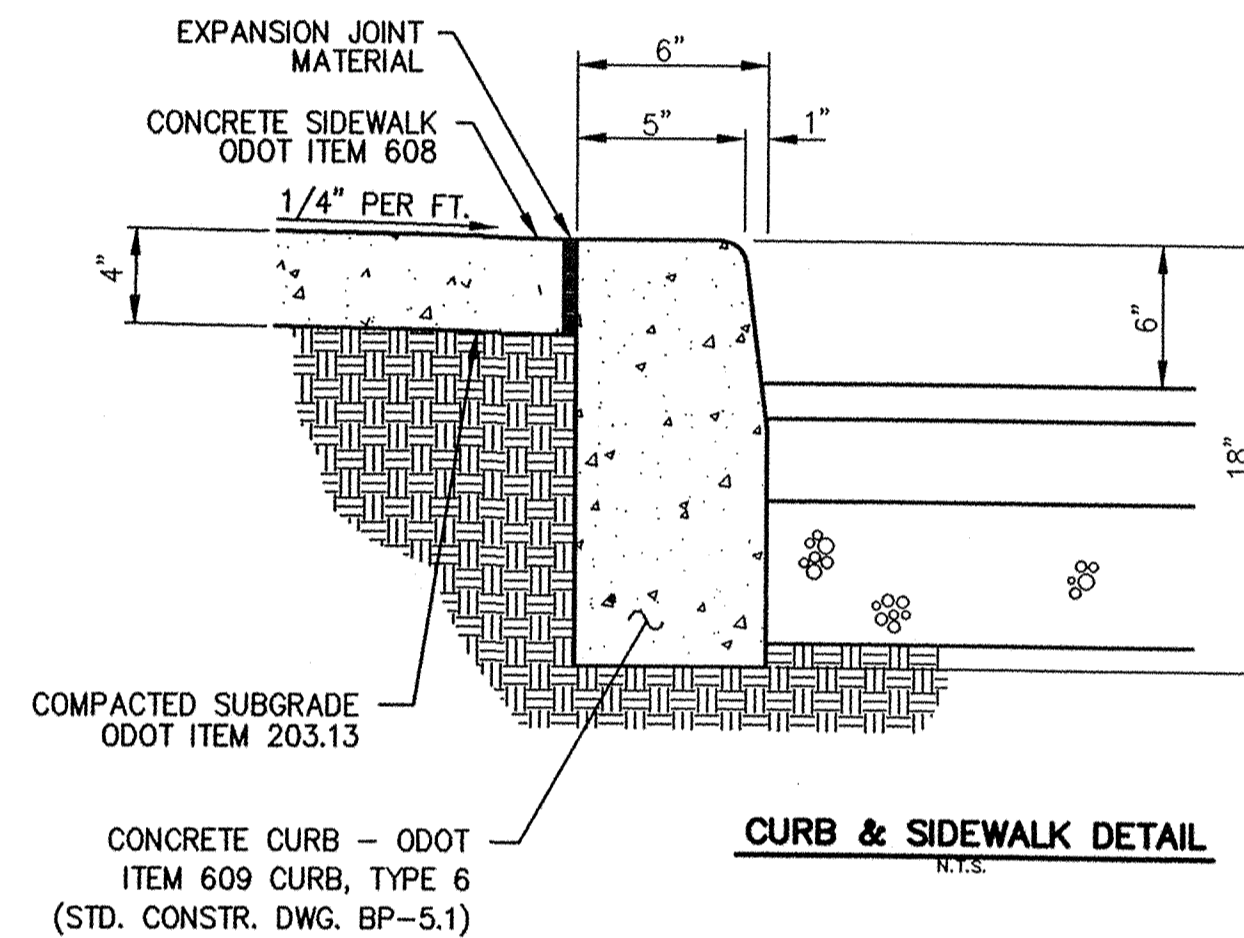
TEMPORARY SEEDING

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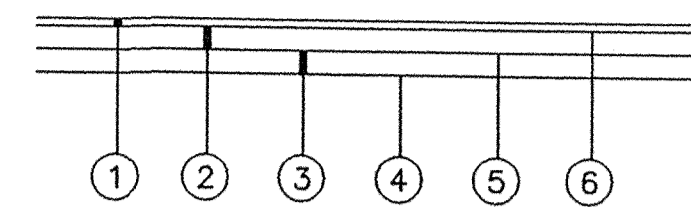
ITEM 609 - TYPE 6 CONCRETE CURB

SCALE: 1-1/2"=1'



CURB & SIDEWALK DETAIL

N.T.S.

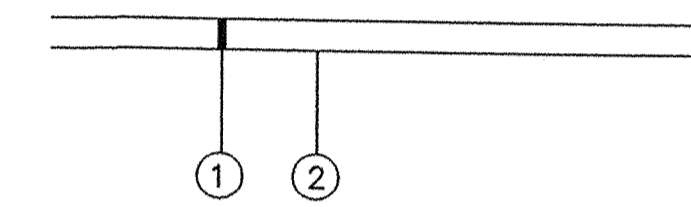


- ITEM 404 1" ASPHALT CONCRETE
- ITEM 301 3" BITUMINOUS AGGREGATE BASE
- ITEM 304 6" AGGREGATE BASE (2-3" LIFTS)
- ITEM 203.13 COMPACTED SUBGRADE
- ITEM 408 PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
- ITEM 407 TACK COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 1997.

ASPHALT PAVEMENT SECTION DETAIL

N.T.S.



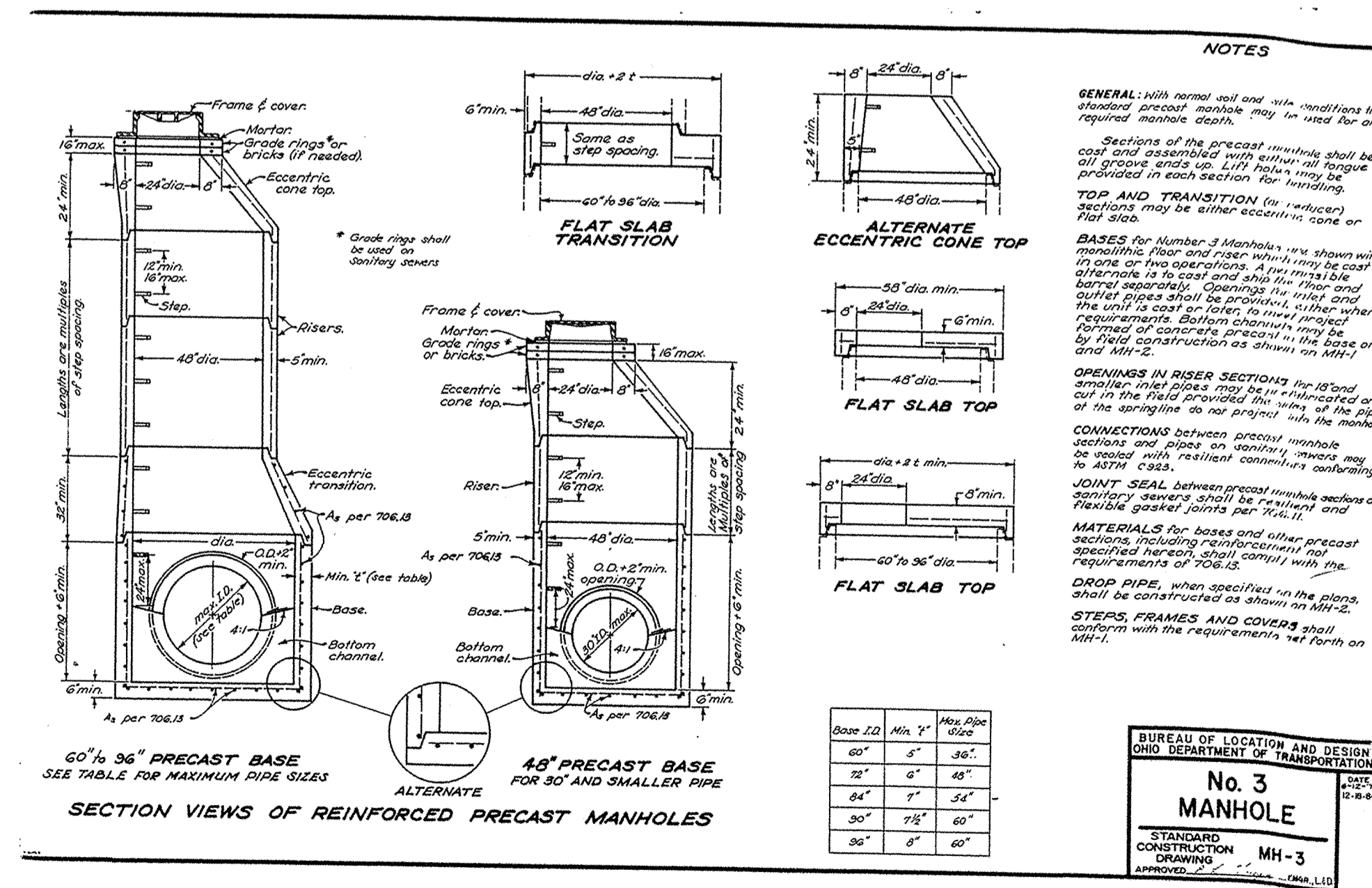
- ITEM 452 8" PLAIN CONCRETE
- ITEM 203.13 COMPACTED SUBGRADE

CONTRACTOR TO SUBMIT SHOP DRAWINGS OF PAVEMENT JOINT LOCATIONS.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 1997.

CONCRETE PAVEMENT SECTION DETAIL

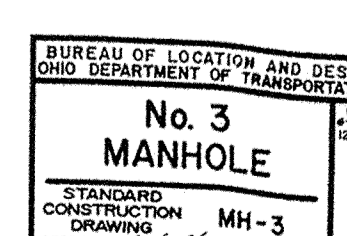
N.T.S.



NOTES

- GENERAL: With normal soil and with conditions the standard manhole manhole may be used for any required manhole depth.
- Sections of the precast manhole shall be cast and assembled with exterior and interior all gasket ends up. All manholes may be provided in each section for manholes. Sections may be either eccentric cone or flat slab.
- BASES: For Number 3 Manholes, the manhole shall be installed on a 4" thick concrete base. The base shall be cast and shall have a minimum 4" thick concrete base. The base shall be cast and shall have a minimum 4" thick concrete base. The base shall be cast and shall have a minimum 4" thick concrete base.
- CONNECTIONS: Between precast manhole sections and pipes, connections shall be made with resilient caulking. Caulking may be applied to the interior or exterior of the manhole.
- JOINT SEAL: Between precast manhole sections and pipes, connections shall be made with resilient caulking. Caulking may be applied to the interior or exterior of the manhole.
- MATERIALS: For bases and when precast sections, including connections, shall be made with the requirements of the specifications for manholes.
- DROP PIPE: When specified in the plans, shall be constructed as shown on MH-2.
- STEPS, FRAMES AND COVERS: Shall conform with the requirements of the specifications for manholes.

Base Dia	Min. Y	Max. Pipe Dia
48"	4"	36"
60"	6"	48"
72"	8"	60"
84"	10"	72"
96"	12"	84"



SITE DETAILS
CROSSROADS - SHELL STATION
 SITUATED IN THE TOWNSHIP OF SANDY, COUNTY OF TUSCARAWAS, STATE OF OHIO AND BEING PART OF LOT 27 OF THE 1ST QUARTER

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