

PROJECT AREA	SECTION 24
AREA IN BUILDING LOTS	6.792 ACRES
AREA IN OPEN SPACE LOTS	2.340 ACRES
AREA IN OPEN SPACE STREETS	0.576 ACRES
AREA IN R/W	0.545 ACRES

SECTION	LOTS	SETBACKS		
		TYPICAL AREA	FRONT	SIDE REAR
24	602-609, 612-617, 621-628	5,300 S.F.	15'	4' 10'

NOTE: A SINGLE FAMILY RESIDENCE EXISTS ON LOT 599.

THE TOTAL NUMBER OF LOTS IN SECTION 24 INCLUDING OPEN SPACE IS 31.

CURRENT ZONE:	SECTION 24 R-PUD
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WINDING CREEK SECTION 24 AKA CARRIAGE HILL SECTION 24 SECTION 2, TOWN 2, RANGE 3 LIBERTY TOWNSHIP BUTLER COUNTY, OHIO

GENERAL NOTES

ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE BUTLER COUNTY ENGINEER AND THE AUTHORITY HAVING RESPONSIBILITY FOR UTILITIES IN THE AREA AND IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION.

STORM SEWERS SHALL BE A MATERIAL WITH A MANUFACTURER'S MANNINGS "N" OF 0.011 OR LOWER AND A MATERIAL AS NOTED IN APPENDIX D, TABLE D-6 IN THE BUTLER COUNTY SUBDIVISION REGULATIONS ADOPTED NOVEMBER 24, 1997. (NOTE - CORRUGATED METAL PIPE NOT INCLUDED)

STEPS SHALL BE INSTALLED IN CATCH BASINS AND MANHOLES IN EXCESS OF FOUR FEET.

CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ODOT 1997 STANDARDS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.

SUMP COLLECTOR LINES SHALL BE CONSTRUCTED SDR 35 PVC, ARMC0 2000 OR APPROVED EQUAL.

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO THE START OF CONSTRUCTION.

SANITARY SEWER MATERIALS AND INSTALLATION AS PER BUTLER COUNTY WATER & SEWER SPECIFICATIONS USING SECTION 3110 FOR PVC, SDR-35 & 24 PIPE, SECTION 3140 FOR ABS PVC COMPOSITE PIPE, SECTION 3410 FOR MANHOLES.

SANITARY LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE PROPERTY RIGHT-OF-WAY LINE OR TO THE EDGE OF THE EASEMENT, WHICHEVER IS GREATER.

THE UPSTREAM TERMINUS OF THE SANITARY SEWER LATERALS SHOWN HERE ON ARE TO BE 12 FEET BELOW THE ELEVATION OF THE BACK OF CURB.

WATER MAINS SHALL HAVE 4" MINIMUM DEPTH TO TOP OF PIPE.

ALL WATER MAINS TO BE DUCTILE IRON PIPE, CL. 53 ANMA C-151.

WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, APPURTENANCES, AND INSTALLATION SHALL BE PER BUTLER COUNTY SPECIFICATIONS, AND SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5 AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.

WATER MAIN SHALL HAVE 10' HORIZONTAL, & 18" VERTICAL SEPARATION (OUTSIDE EDGE TO EDGE) WITH ALL OTHER PIPE.

ALL DOWNSPOUT LINES SHALL BE ON SPLASHBLOCKS AND MAY NOT BE CONNECTED TO THE CURB.

ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEM 203 AND 603 IN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.

THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS OF THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY AS OF THE TYPICAL SECTION FOR USE BY THE ELECTRIC, TELEPHONE, AND CABLE TELEVISION SERVICES. THE DEVELOPER SHALL COORDINATE THE LOCATION OF THE LINES WITH EACH UTILITY COMPANY.

ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH EXISTING MANHOLES OR WATER MAIN APPURTENANCES.

STORM SEWER PIPE SHALL BE TYPE "B" & "C" CONDUIT, 707.42 PVC, ALL DIA. (CONTECH A200 OR EQUAL), 707.33 PVC, UP TO & INCLUDING 24" DIA (HANCOR, ADS, OR EQUAL), 707.01 CMP, ALL DIA, 706.02, REINFORCED CONCRETE PIPE, ALL DIA.

BUTLER COUNTY WATER & SEWER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTERLINE OF ANY SANITARY MAIN SEWER OR WATER MAIN.

PRIVATE DRIVEWAYS, PARKING LOTS AND OTHER PAVED AREAS, EARTHEN BERMS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER WILL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR OF AND PROVIDING ACCESS TO ANY CURB STOPS, METER PITS, MANHOLES, CLEANOUTS, ETC. INSTALLED IN CONJUNCTION WITH THESE PRIVATE SERVICE LINES AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES.

LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY GROUND CONDITIONS AND EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.

THE EXISTING UTILITIES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

BUTLER COUNTY ASSUMES NO MAINTENANCE RESPONSIBILITY FOR PRIVATE DRIVES.

BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN REPAIRS. BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF GRADE CHANGES. THE GRANTOR SHALL BE RESPONSIBLE FOR THE PROPER ADJUSTMENT OF VALVES, FIRE HYDRANTS, METER PITS, ETC., TO THE SATISFACTION OF BUTLER COUNTY, DUE TO GRADE CHANGES, PAVING, REPAIRING, ETC., INITIATED BY THE GRANTOR.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF FOUR FEET (4') OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER, AT THE POINT OF CONNECTION, AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST ONE FOOT (1') ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OR WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE RECORDED ON THE "AS BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF THE BUTLER COUNTY WATER AND SEWER DEPARTMENT.

SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN, AND CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATIONS, ITEM 659.

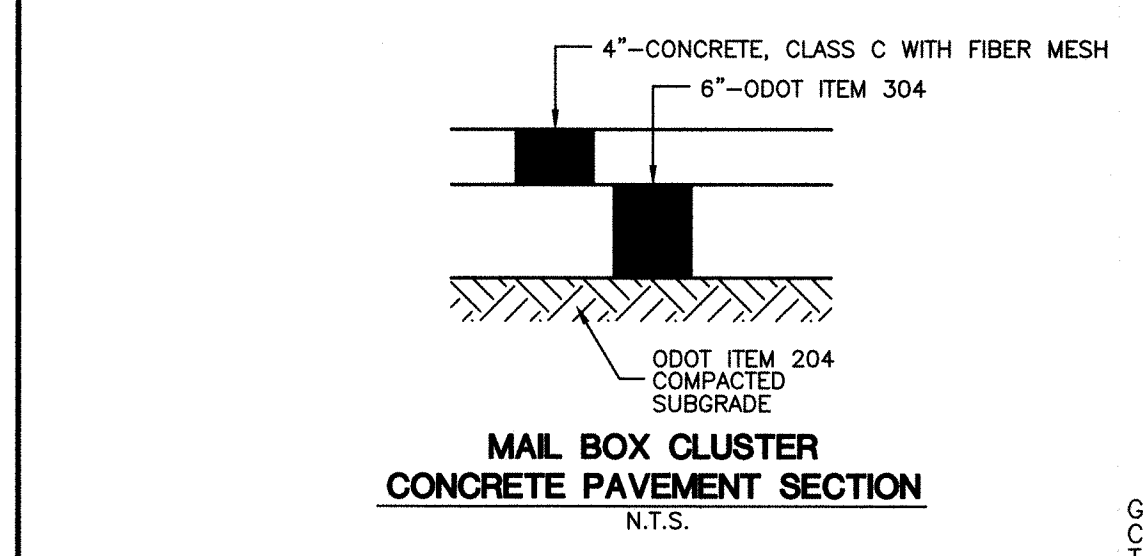
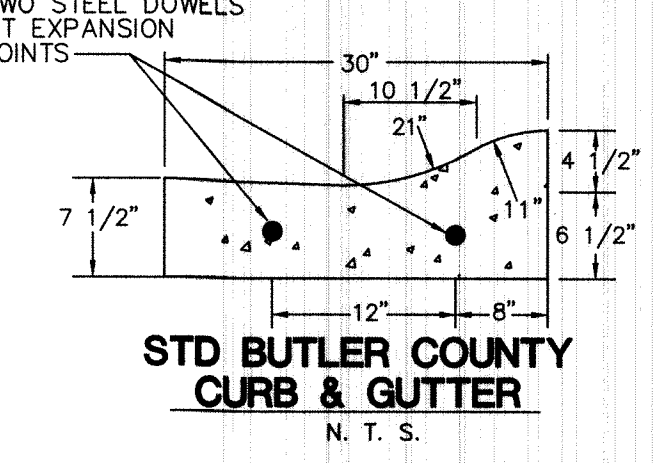
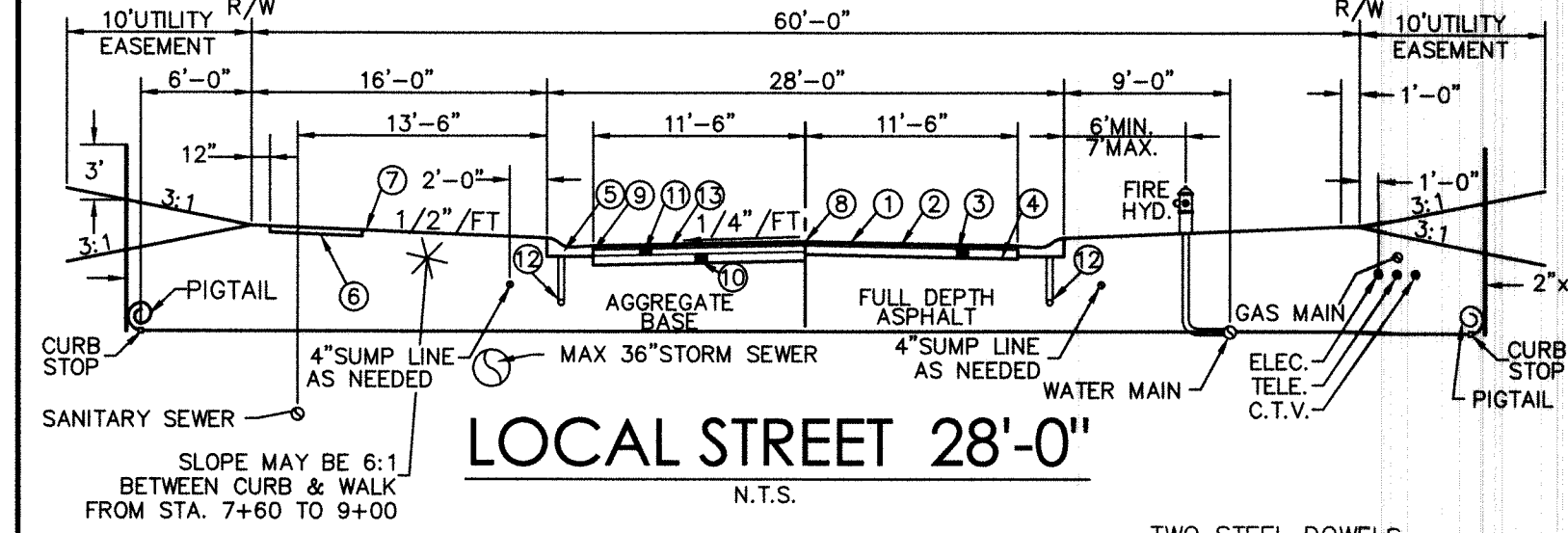
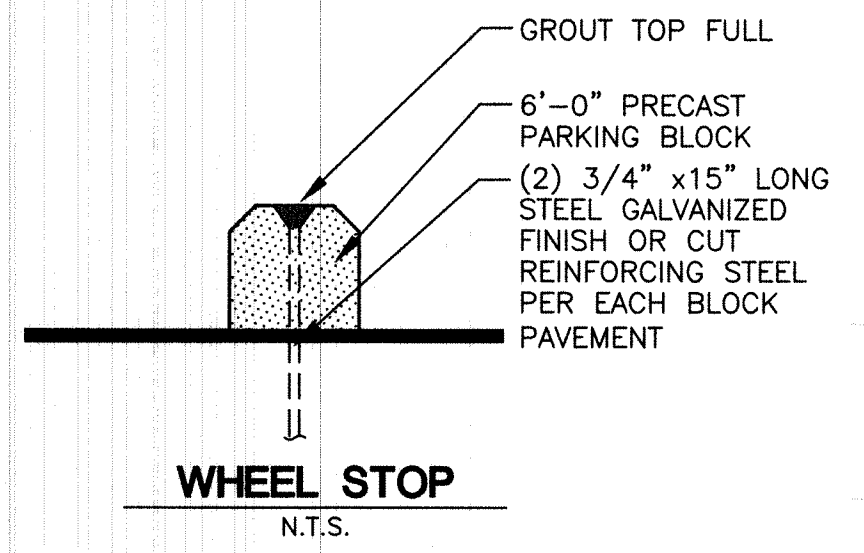
THE CONTRACTOR SHALL SEED AND MULCH DISTURBED GRASS AREAS WITH:
3 LBS. WHEAT OR RYE PER 1000 SQ. FT.
10 LBS. 12-12-12 FERTILIZER PER 1000 SQ. FT.
2 OR 3 BALES OF STRAW PER 1000 SQ. FT.

THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY ENGINEER DURING THE CONSTRUCTION PHASE.

SEEDING- SPECIFICATIONS AT DETENTION BASIN:
RED FESCUE 1 LB. PER 1000 SQ. FT.
KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT.
PERENNIAL RYEGRASS 1/2 LB. PER 1000 SQ. FT.
FERTILIZER: 12-12-12 12-12-12
MULCH - 3 BALES OF STRAW PER 1000 SQ. FT.
MULCH TIE DOWN: LIQUID ASPHALT (R.C. 70, 25 OR 800) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED IN PLACE.
SOD: TO BE STAKED IN PLACE.

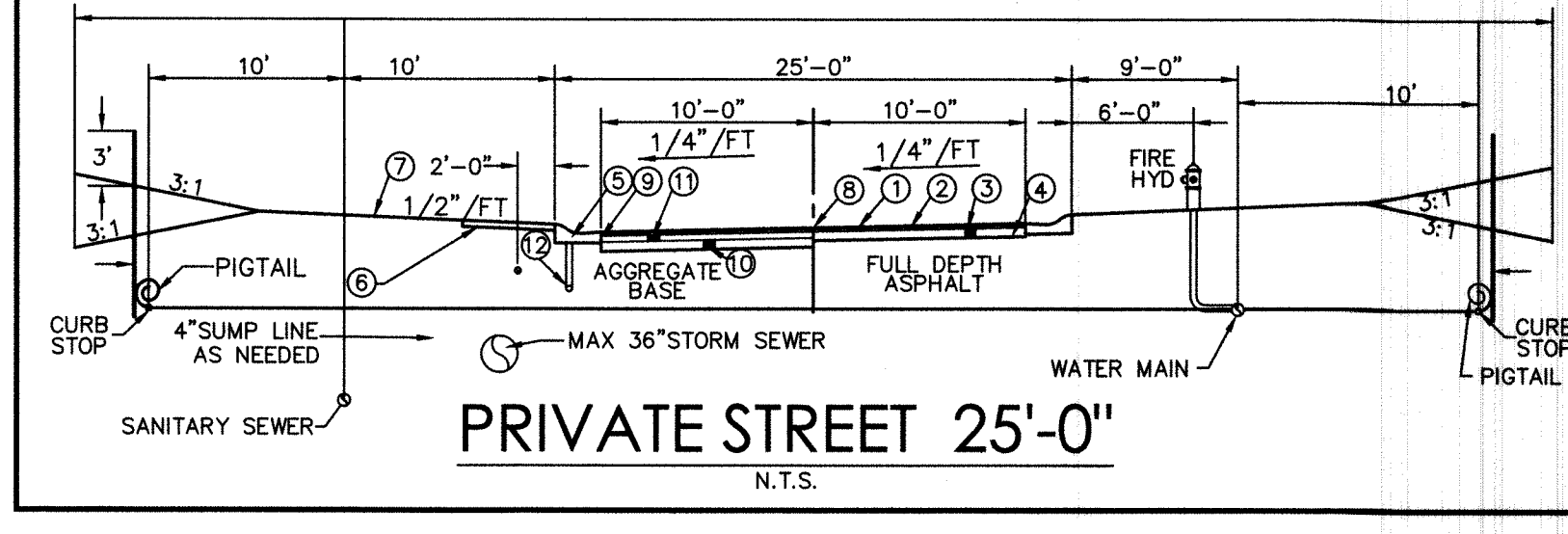
- 1" SURFACE COURSE OF ITEM 448 ASPHALTIC CONCRETE, SEE NOTE #4
- 2 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE
- 6" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE
- COMPACTED SUBGRADE, ITEM 203.13
- ROLL TYPE CURB & GUTTER, ITEM 609 (BUTLER CO. STANDARD C-1)
- 4" THICK CLASS "C" CONCRETE WALK, 6" WIDE, ITEM 608 WALK TO BE 1/2" HIGHER THAN SOD
- SEEDING & MULCHING, ITEM 659
- TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4
- TACK COAT SHALL BE APPLIED TO FRONT FACE OF CURB PRIOR TO THE INSTALLATION OF THE 301 BITUMINOUS AGGREGATE BASE. ALSO TO BE APPLIED TO THE CURB JOINT AFTER THE INSTALLATION OF 448 LEVELING COURSE
- 6" BASE COURSE OF ITEM 304 AGGREGATE BASE
- 5" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE
- ITEM 605, 4" UNDERDRAIN CONNECT UNDERDRAIN TO FRONT FACE OF NEAREST CATCH BASIN
- 1 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE

ITEM	DEPTH TOP OF PIPE
Underdrain	18"
Surplines	24" - 30"
Gas	24" - 30"
Water	48" - 54"
Electric	36" - 40"
Telephone	36" - 40"
Cable TV	36" - 40"



- 1" SURFACE COURSE OF ITEM 448 ASPHALTIC CONCRETE, SEE NOTE #4
- 1 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE
- 6" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE
- COMPACTED SUBGRADE, ITEM 203.13
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- 4" THICK CLASS "C" CONCRETE WALK, 4" WIDE, ITEM 608 WALK TO BE 1/2" HIGHER THAN SOD
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DEVELOPER
MI HOMES OF CINCINNATI, LLC.
9349 WATERSTONE BOULEVARD, SUITE 100
CINCINNATI, OHIO 45249

OWNERS
LIBERTY LAND COMPANY, LLC.
5342 CARRIAGE HOUSE BOULEVARD
LIBERTY TOWNSHIP, OHIO 45011

MI HOMES OF CINCINNATI, LLC.
9349 WATERSTONE BOULEVARD, SUITE 100
CINCINNATI, OHIO 45249

- NOTES**
- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF HIGHWAYS CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.
 - ITEMS THAT PERTAIN TO UNDERGROUND UTILITIES SUCH AS WATERMAIN PIPE, SANITARY SEWER PIPE, WATER VALVES AND MANHOLE FRAMES AND COVERS, ETC. WILL REMAIN UNDER SPECIFICATIONS OF THE UTILITY SERVING THE AREA. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUTLER COUNTY ENGINEER.
 - ALL TRENCHES WITHIN THE RIGHT OF WAY AND UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEMS 203 AND 603 IN THE STATE SPECIFICATIONS.
 - SURFACE COURSE (ITEM 448) AND TACK COAT (ITEM 407) ARE TO BE APPLIED NO SOONER THAN NINE (9) MONTHS AFTER THE LEVELING COURSE (ITEM 448), AND FIFTY (50) PERCENT OF THE HOMES ARE COMPLETED. IF AFTER TWO (2) YEARS FIFTY (50) PERCENT OF THE HOMES HAVE NOT BEEN COMPLETED, THEN THE TOP COURSE MAY BE APPLIED.
 - A MINIMUM 10' UTILITY EASEMENT SHALL BE SHOWN ON THE RECORD PLAT PARALLEL AND IMMEDIATELY ADJACENT TO THE RIGHT OF WAY LINE ALLOWING FOR INSTALLATION, OPERATION AND MAINTENANCE OF SEWERS, WATER, ELECTRIC AND TELEPHONE CONDUIT AND ANY OTHER PUBLIC OR QUASI PUBLIC UTILITY.
 - DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS FOR THE FULL WIDTH OF THE PUBLIC RIGHT OF WAY AT A DEPTH OF 36" FOR USE BY THE ELECTRIC, TELEPHONE AND CABLE TV SERVICES. THE LOCATION OF THESE LINES SHALL BE COORDINATED WITH UTILITY COMPANIES BY THE DEVELOPER.
 - SANITARY LATERALS SHALL BE EXTENDED BEYOND THE LIMITS OF THE UTILITY EASEMENTS, BUT NOT TO EXCEED 12' FROM THE RIGHT OF WAY LINE.
 - ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE EXISTING MANHOLES.
 - SUMP LINE CONDUITS ARE TO BE SDR 35.
 - THE SANITARY SEWER SHALL BE PLACED IN SUCH A MANNER THAT THE SANITARY MANHOLE COVER DOES NOT CONFLICT WITH THE SIDEWALK.

INDEX SHEET	DESCRIPTION
1	COVER SHEET
2	LAYOUT PLAN
3	IMPROVEMENT PLAN
4	GRADING & SWP3
5	PROFILES
6	PROFILES & DETAILS
7-8	BUTLER COUNTY WATER & SEWER STANDARD DETAILS
9	EROSION CONTROL NOTES & DETAILS

NOTE: ALL LOTS SHALL BE SERVED BY SANITARY SEWER AND PUBLIC WATER SYSTEMS.

PROJECT BENCHMARK = CENTERLINE NAIL LOCATED AT THE INTERSECTION OF CARRIAGE HOUSE BOULEVARD AND STAGECOACH WAY. ELEVATION = 790.52

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Architecture
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Project Manager: RA
Drawn By: SECTION
DWG: 04476064-IMP-NAK 24
X-Ref(s): 04476063-TOP-2014 MAY 14

Issue/Revision	No.	Date

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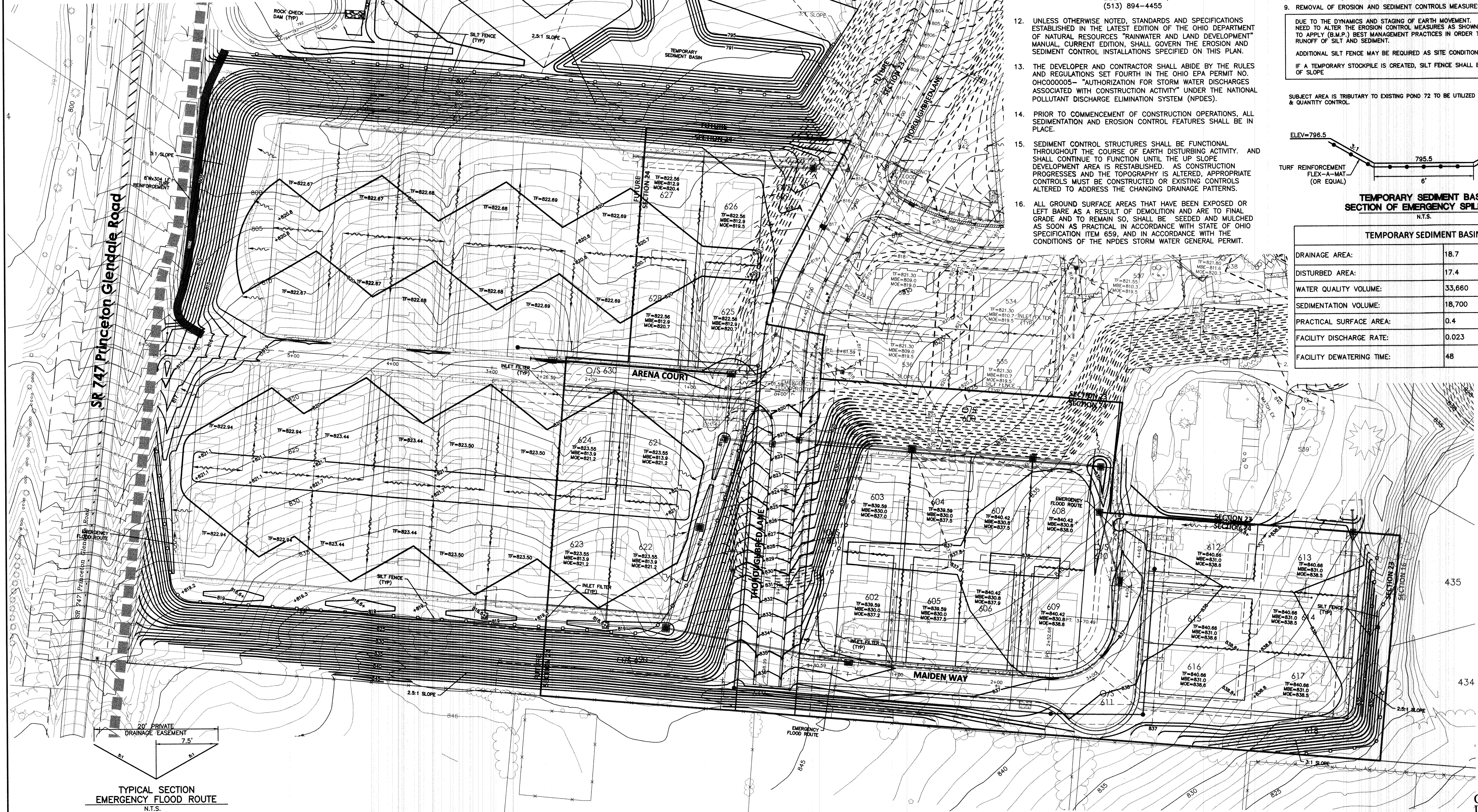
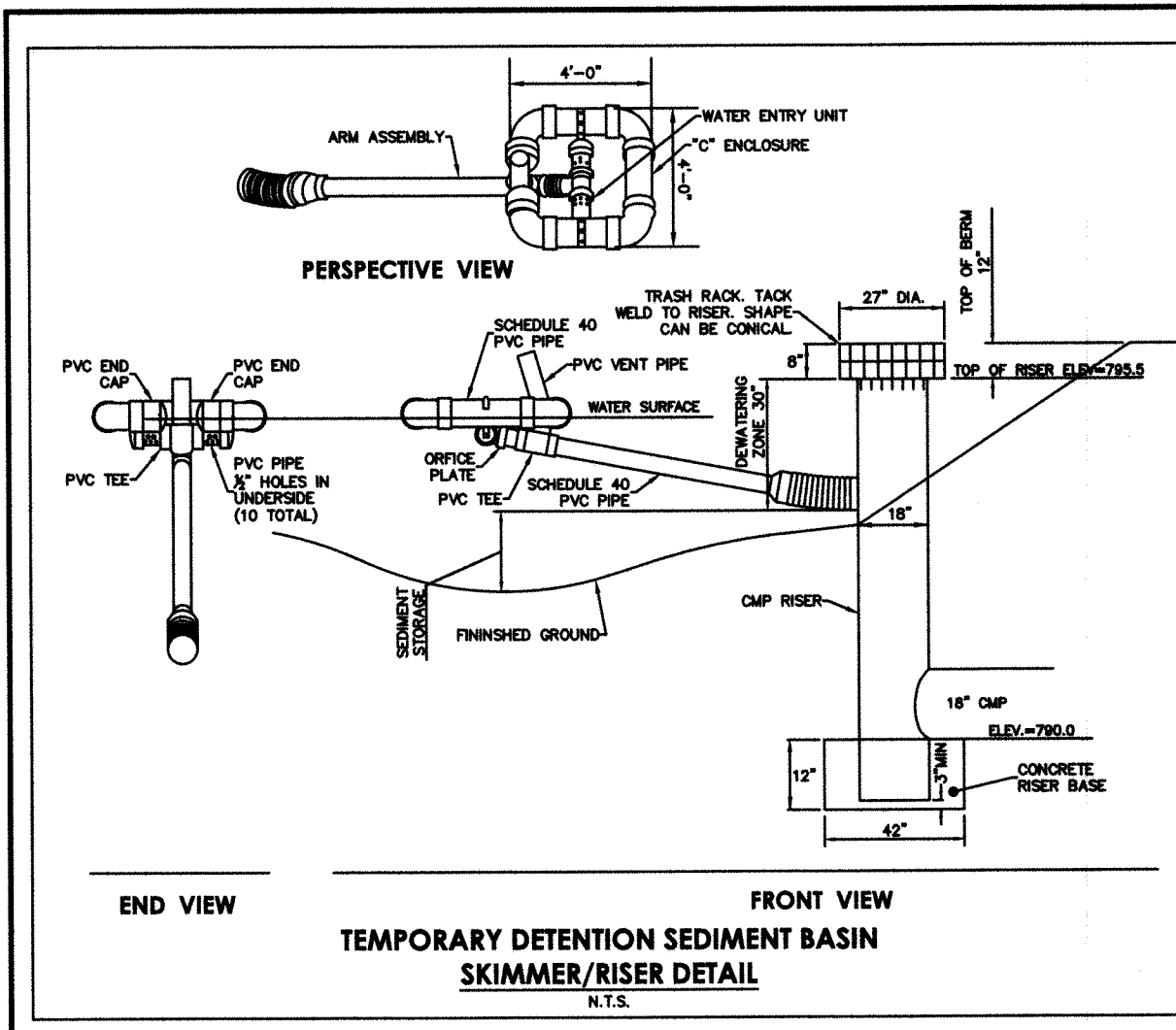
WINDING CREEK SECTION 24 AKA CARRIAGE HILL SECTION 24 SECTION 2, TOWN 2, RANGE 3 LIBERTY TOWNSHIP BUTLER COUNTY, OHIO

Sheet Title: _____

COVER SHEET

Project Number: 04476.06
Drawing Scale: AS NOTED
Sheet Number: 1/8
File Number: 04476

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TYPICAL SECTION EMERGENCY FLOOD ROUTE N.T.S.

PROPOSED GRADING SHOWN HEREON ARE DEVELOPER GRADES.

LOT DRAINAGE ARROWS SHOWN HEREON ARE BASED ON DIRECTION OF DRAINAGE AFTER COMPLETION OF RESIDENTIAL CONSTRUCTION.

GENERAL NPDES NOTES

- PROJECT INVOLVES THE CONSTRUCTION AND ASSOCIATED INFRASTRUCTURE FOR A LOW DENSITY SINGLE FAMILY SUBDIVISION.
- AREA TO BE DISTURBED IS APPROXIMATELY 14 ACRES.
- APPROXIMATELY 4.2 OF IMPERVIOUS SURFACE IS PROPOSED RESULTING IN 42 PERCENT OF IMPERVIOUSNESS.
- PRE-CONSTRUCTION RUNOFF COEFFICIENT IS 0.30. POST-CONSTRUCTION RUNOFF COEFFICIENT IS 0.56.
- THE PRIMARY SOIL TYPE IS RUSSELL - MIAMI SILT LOAM.
- THE PRIOR LAND USE IS FARM CROPS.
- STONY RUN IS THE FIRST NAMED STREAM RECEIVING RUNOFF FROM THIS SITE. RUNOFF IS ULTIMATELY RECEIVED BY GREGORY CREEK.
- NPDES STORM WATER GENERAL PERMIT NUMBER: 1G006947*AG
- PROJECT DURATION: THRU 2021
- SITE OPERATOR: MI HOMES OF CINCINNATI, LLC. 9349 WATERSTONE BOULEVARD, SUITE 100 CINCINNATI, OH 45249 (513) 833-2230
- SWPPP CONTACT: LIBERTY LAND COMPANY, LLC. 5342 CARRIAGE HOUSE BOULEVARD LIBERTY TOWNSHIP, OH 45011 (513) 894-4455
- UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.
- THE DEVELOPER AND CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FORTH IN THE OHIO EPA PERMIT NO. OH000005 - "AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).
- PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE.
- SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY, AND SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS REESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF DEMOLITION AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES STORM WATER GENERAL PERMIT.

MAINTENANCE OF CONTROLS:

- SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING A PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND PREPARED FOR SEEDING.

CONSTRUCTION SEQUENCE

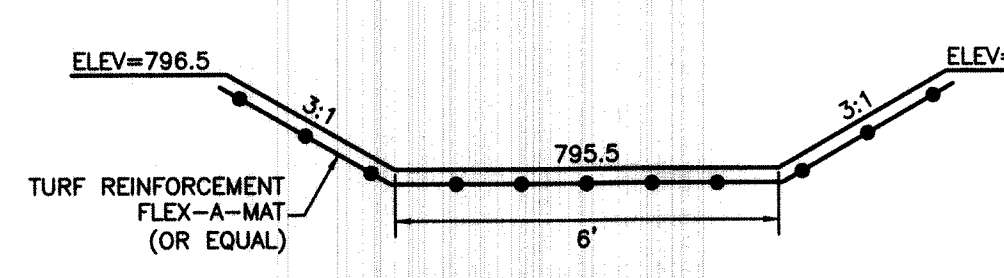
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES BEFORE UPSLOPE CLEARING AND GRADING.
- GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
- INSTALL STORMWATER MANAGEMENT SYSTEM.
- TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING OF SUBDIVISION STREET.
- INSTALLATION OF ALL UTILITIES.
- SITE CONSTRUCTION.
- FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- REMOVAL OF EROSION AND SEDIMENT CONTROLS MEASURES.

DUE TO THE DYNAMICS AND STAGING OF EARTH MOVEMENT, CONTRACTOR MAY NEED TO ALTER THE EROSION CONTROL MEASURES AS SHOWN HEREON. CONTRACTOR TO APPLY (B.M.P.) BEST MANAGEMENT PRACTICES IN ORDER TO CONTROL THE RUNOFF OF SILT AND SEDIMENT.

ADDITIONAL SILT FENCE MAY BE REQUIRED AS SITE CONDITIONS DETERMINE.

IF A TEMPORARY STOCKPILE IS CREATED, SILT FENCE SHALL BE PLACED AT THE TOE OF SLOPE

SUBJECT AREA IS TRIBUTARY TO EXISTING POND 72 TO BE UTILIZED FOR STORM WATER QUALITY & QUANTITY CONTROL.



TEMPORARY SEDIMENT BASIN SECTION OF EMERGENCY SPILLWAY N.T.S.

TEMPORARY SEDIMENT BASIN		
DRAINAGE AREA:	18.7	Ac.
DISTURBED AREA:	17.4	Ac.
WATER QUALITY VOLUME:	33,660	CF
SEDIMENTATION VOLUME:	18,700	CF
PRACTICAL SURFACE AREA:	0.4	Ac.
FACILITY DISCHARGE RATE:	0.023	CFS
FACILITY DEWATERING TIME:	48	HR

NOTE: HIGH WATER TABLES ARE APPARENT IN THIS AREA. IF BASEMENTS ARE CONSTRUCTED, IT IS THE RESPONSIBILITY OF THE BUILDER TO TAKE SPECIAL PRECAUTION TO ENSURE THE BASEMENTS STAY DRY.

ESTABLISH VEGETATION ON ALL BARE AREAS AS PER O.E.P.A. N.P.D.E.S. REGULATIONS.

CONTRACTOR IS RESPONSIBLE FOR N.P.D.E.S. INSPECTIONS DURING CONSTRUCTION PERIOD.



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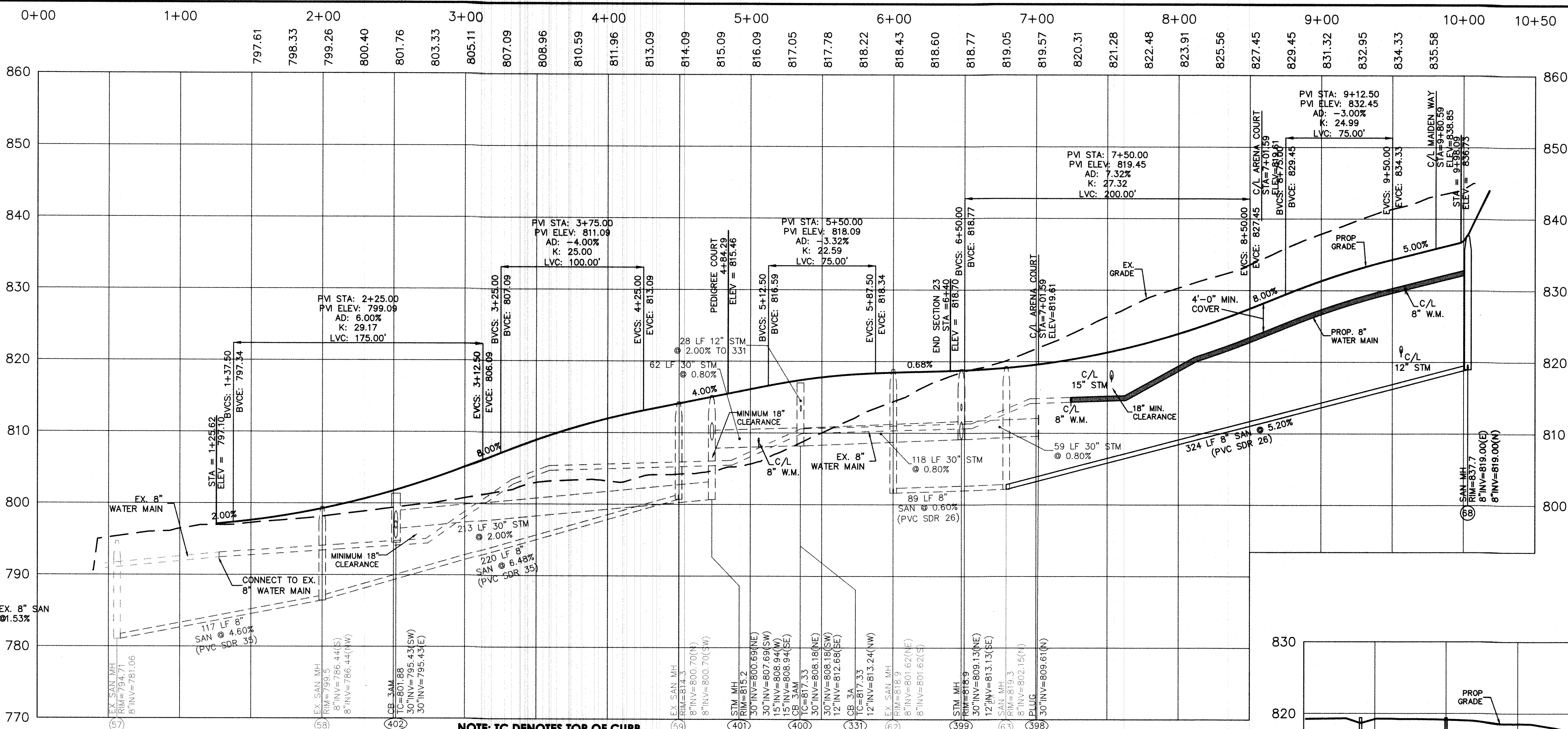
Project Manager RA
Drawn By NAK
DWG 04476064-IMP-SECTION 24
X-Ref(s) 04476063-TOP-2014 MAY 14

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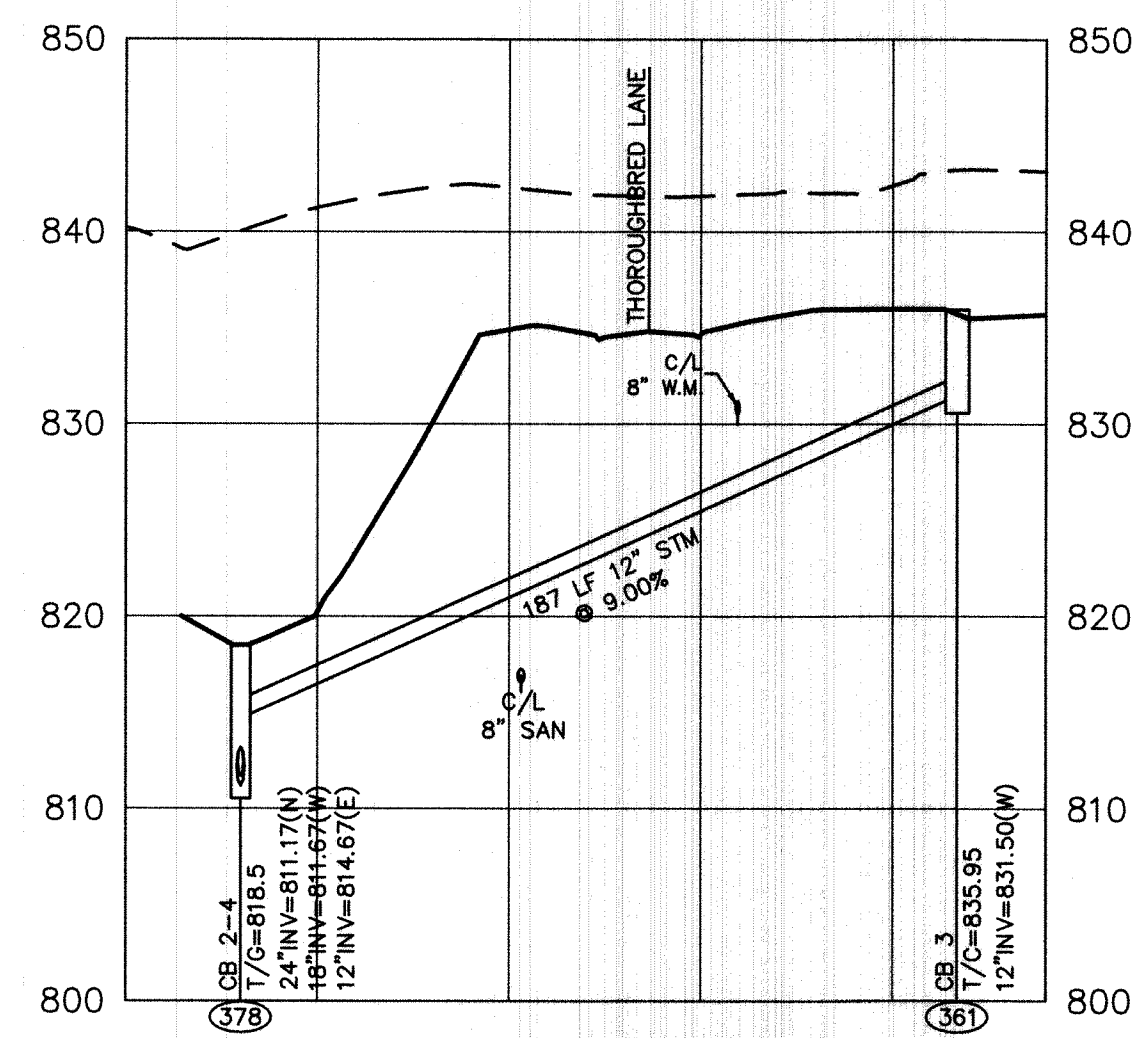
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**WINDING CREEK SECTION 24
AKA CARRIAGE HILL SECTION 24
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO**

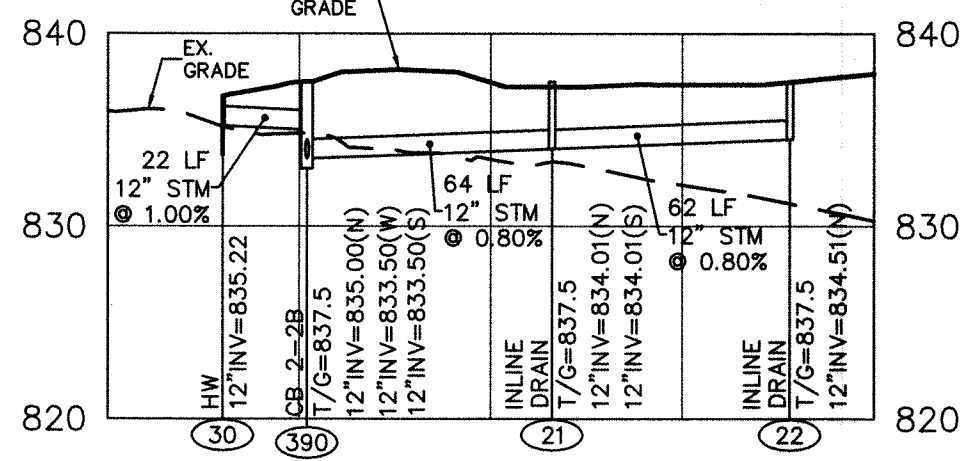
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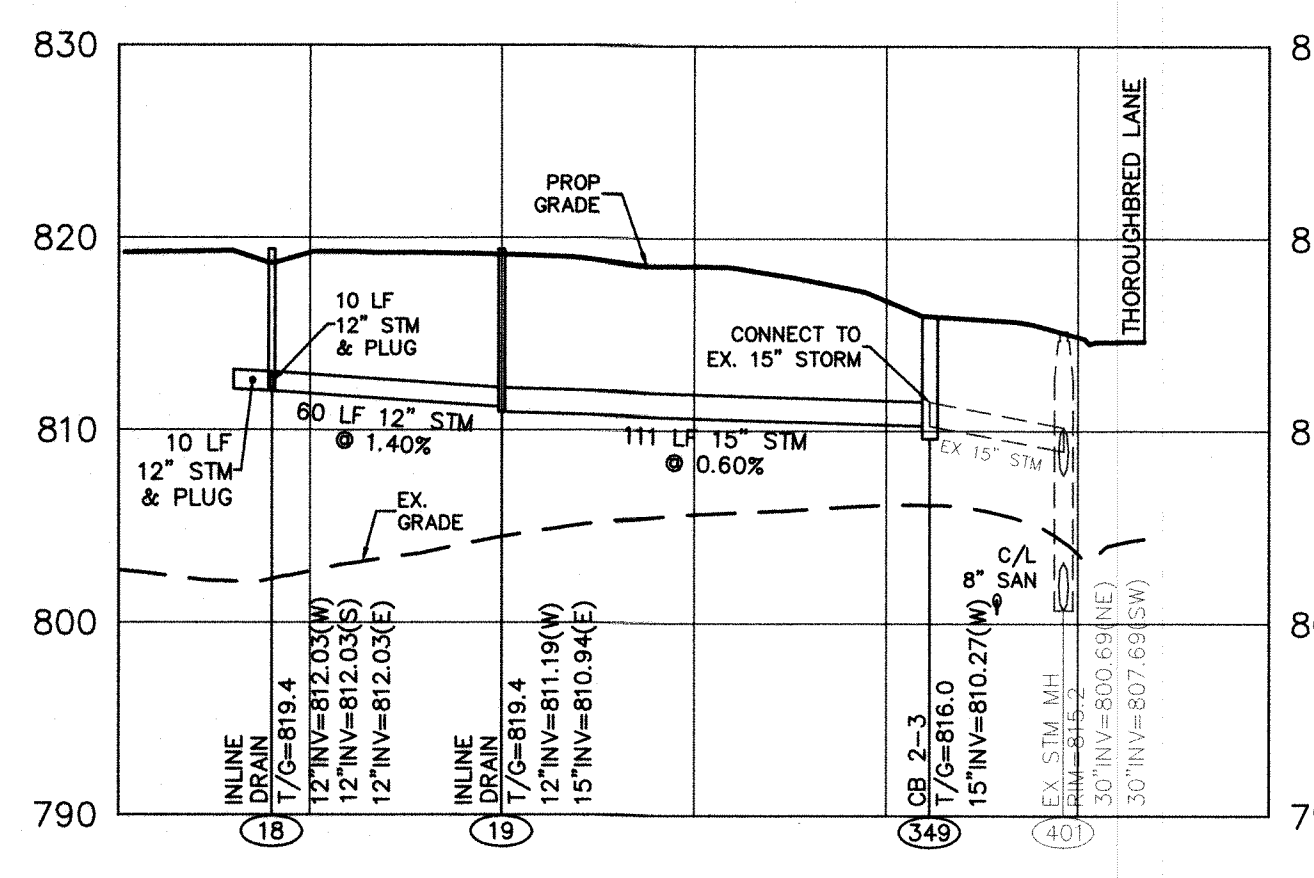
THOROUGHBRID LANE
1"=50' HOR. / 1"=10' VERT.



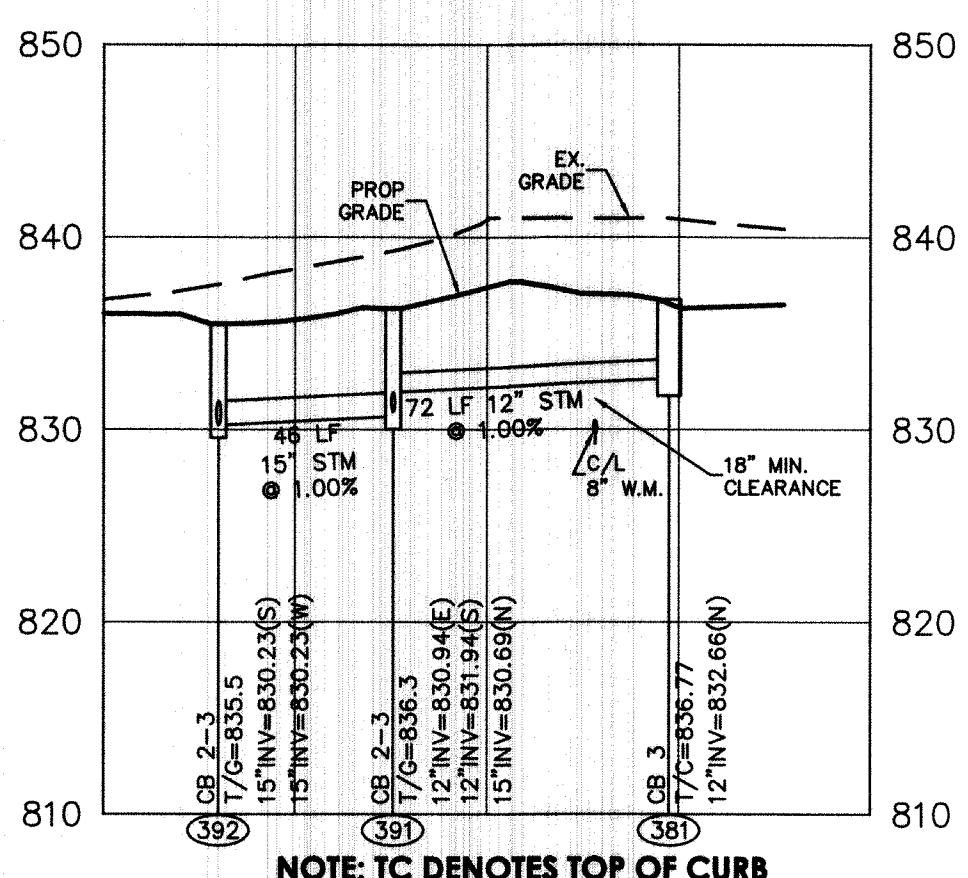
STORM SEWER 361 & 378
1"=50' HOR. / 1"=10' VERT.



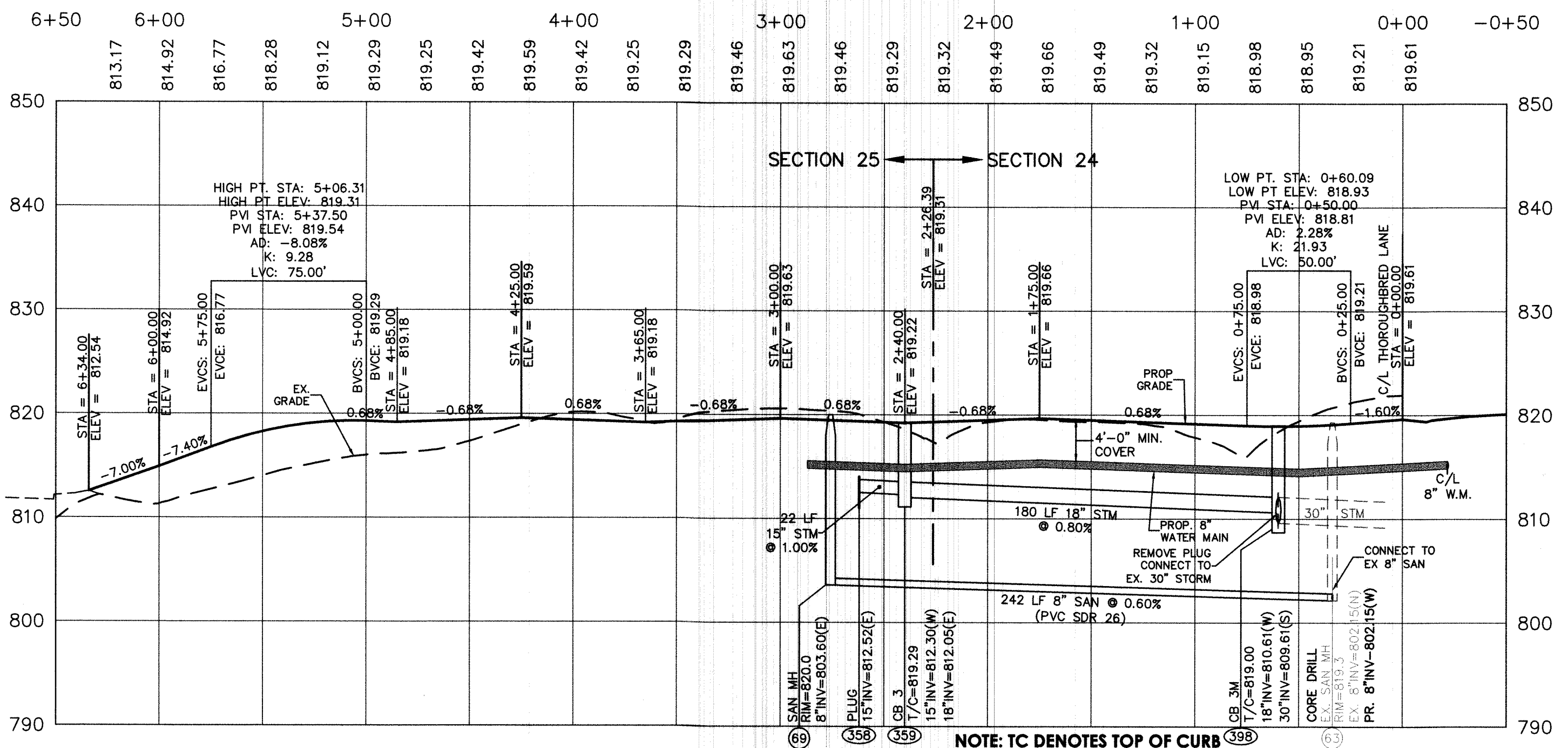
STORM SEWER 390 & INLINE DRAIN
1"=50' HOR. / 1"=10' VERT.



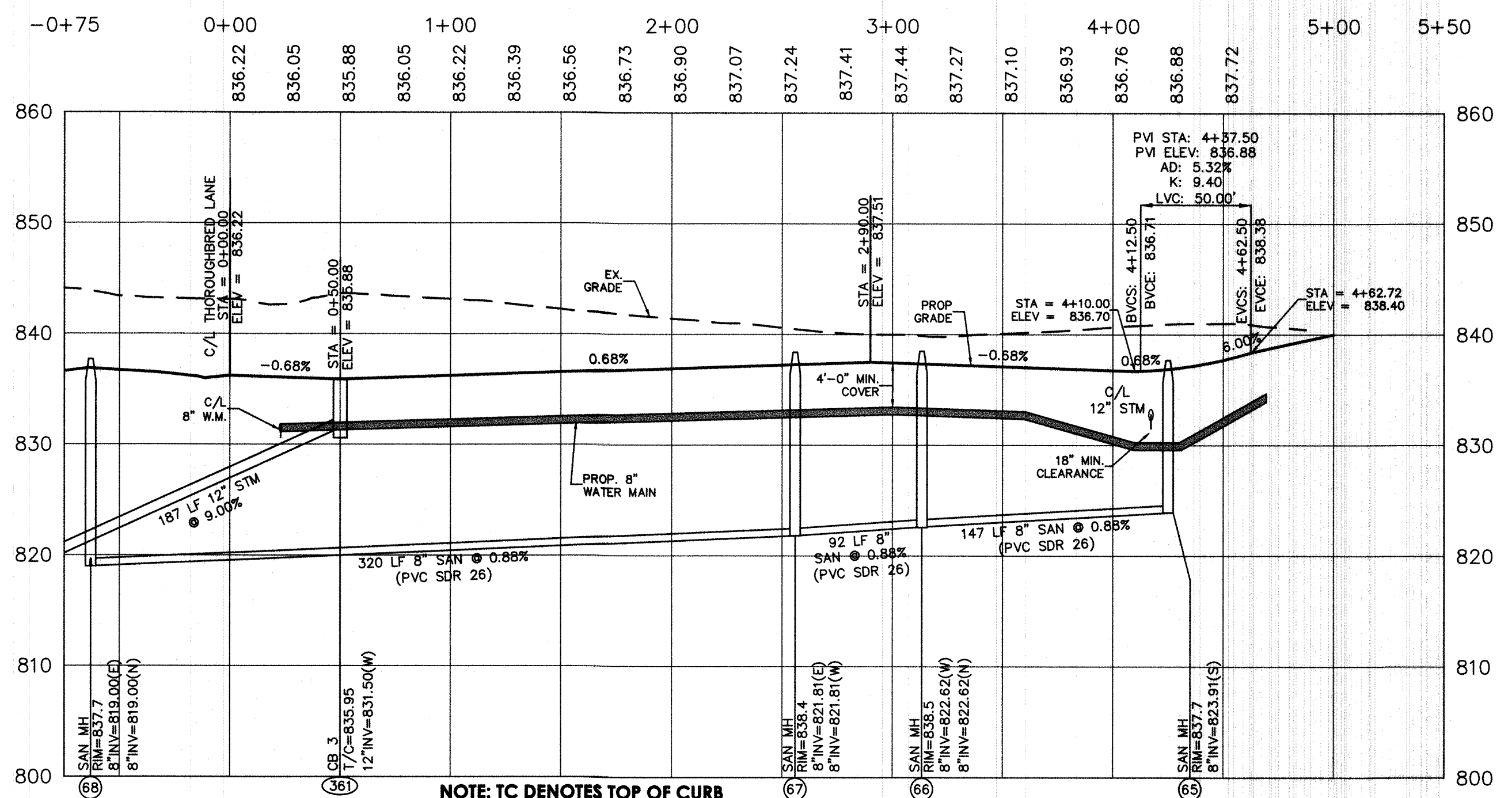
STORM SEWER 349 & INLINE DRAIN
1"=50' HOR. / 1"=10' VERT.



STORM SEWER 381 & 391-392
1"=50' HOR. / 1"=10' VERT.



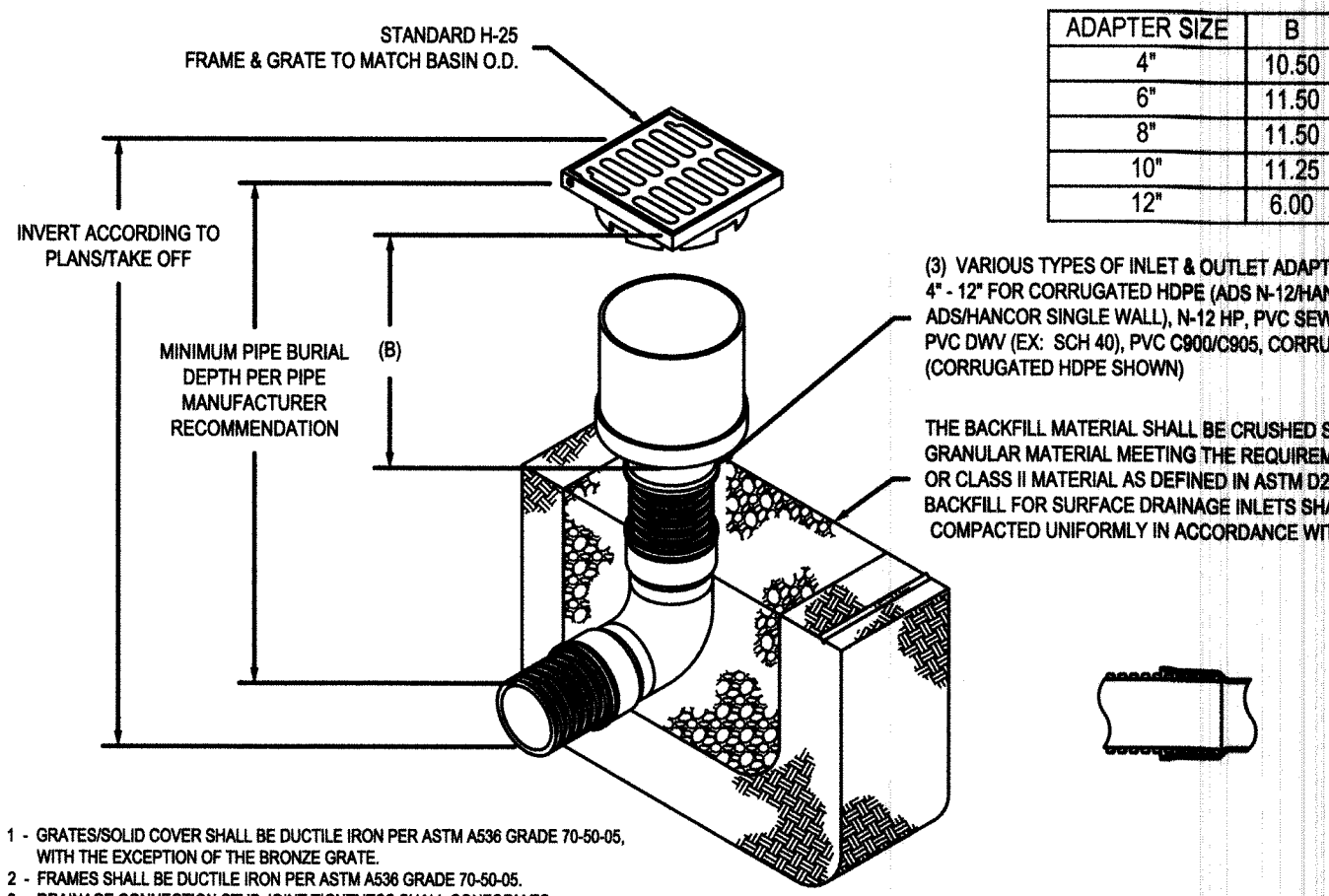
ARENA COURT
1"=50' HOR. / 1"=10' VERT.



MAIDEN WAY
1"=50' HOR. / 1"=10' VERT.

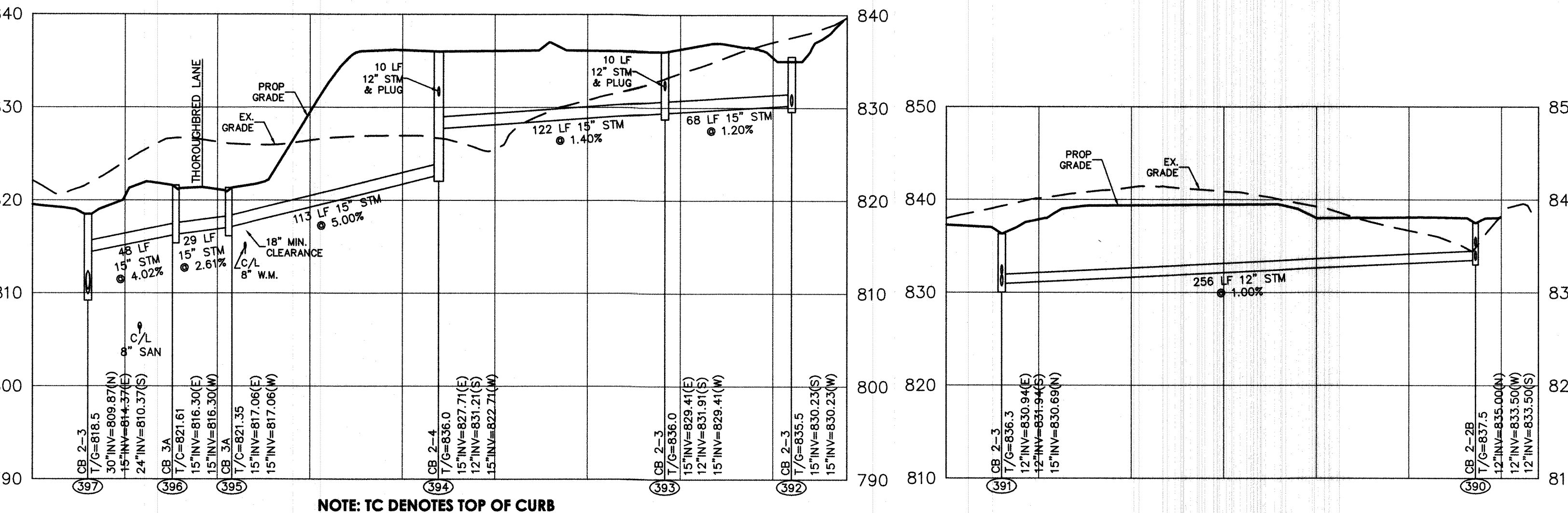
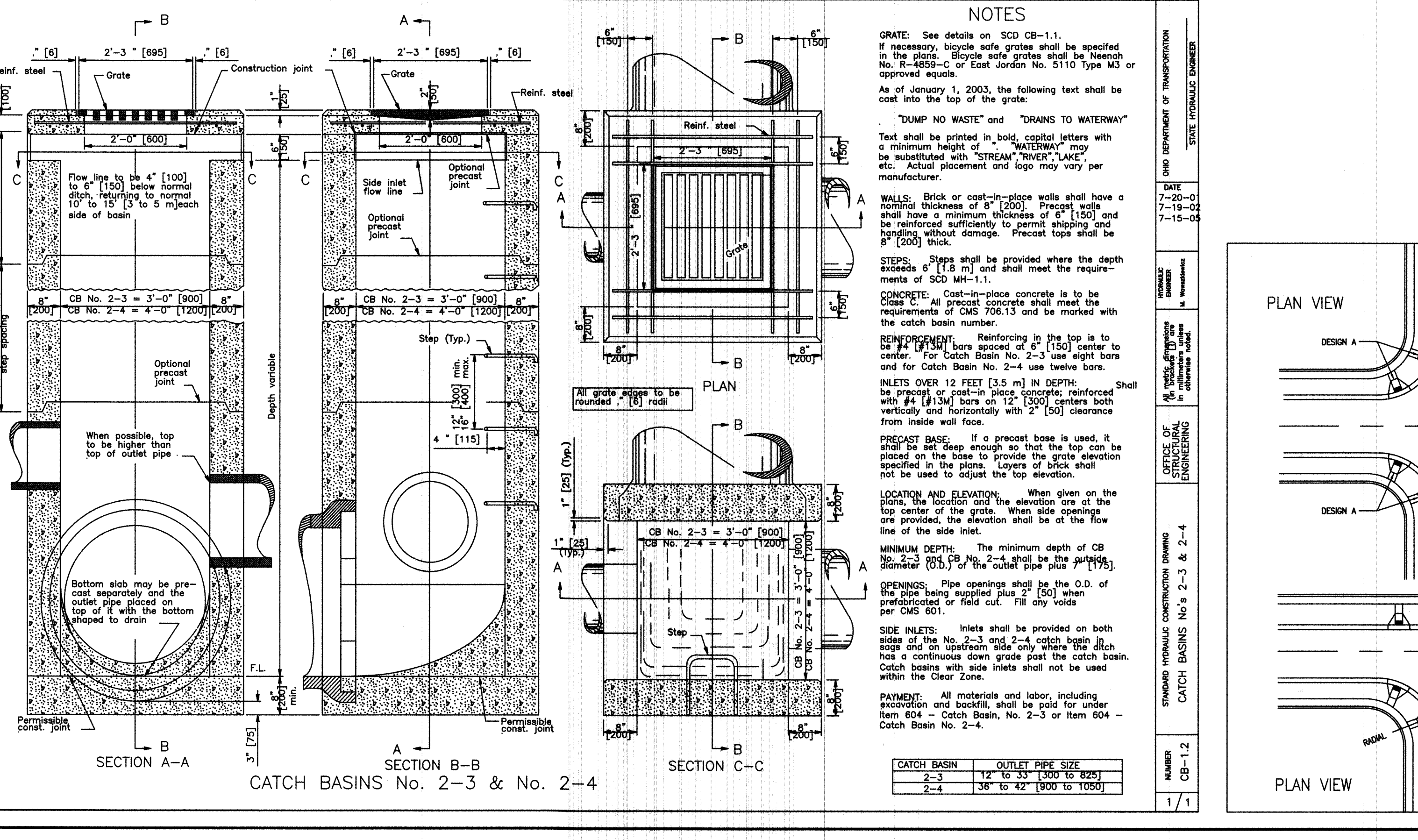
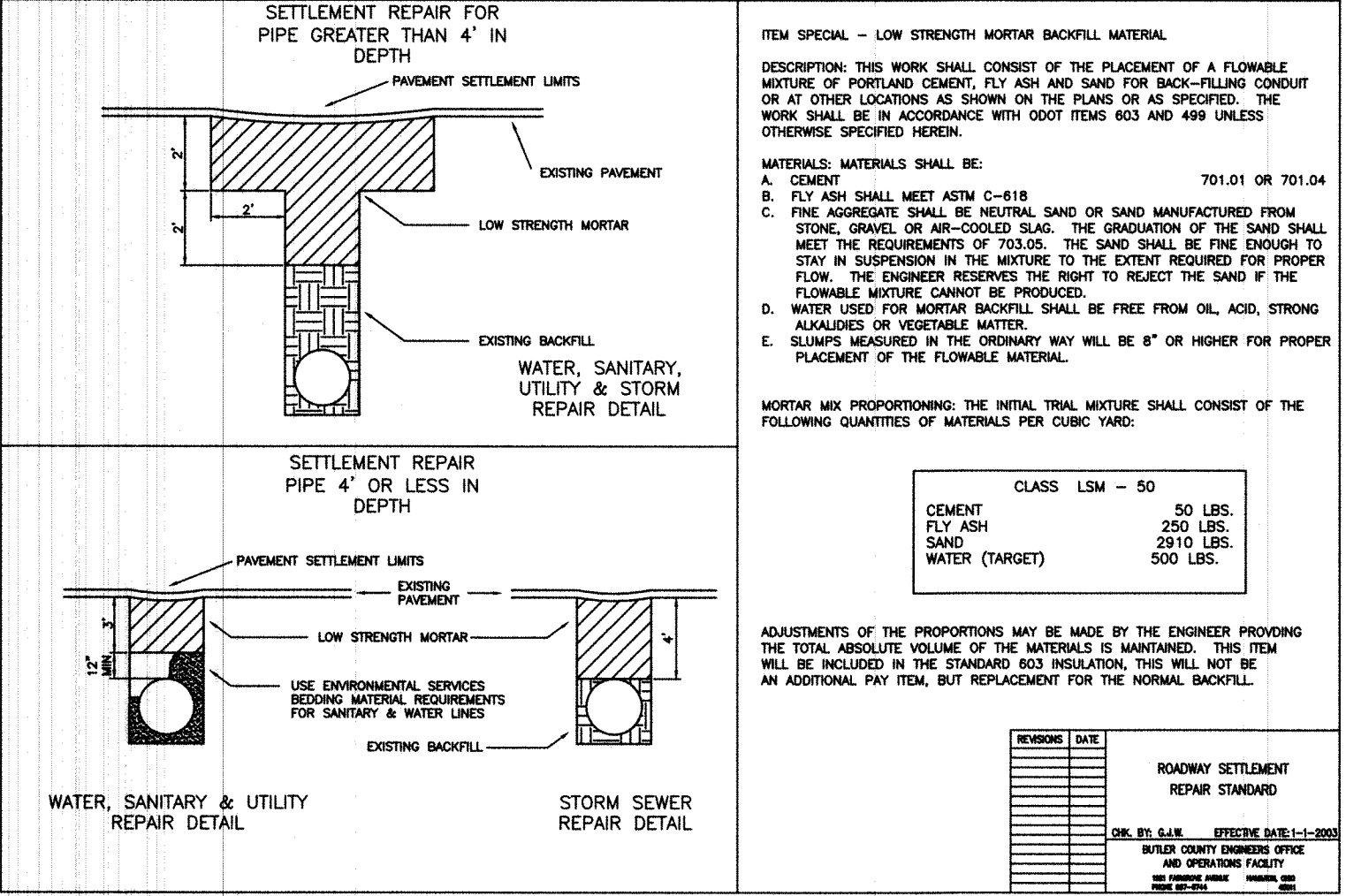
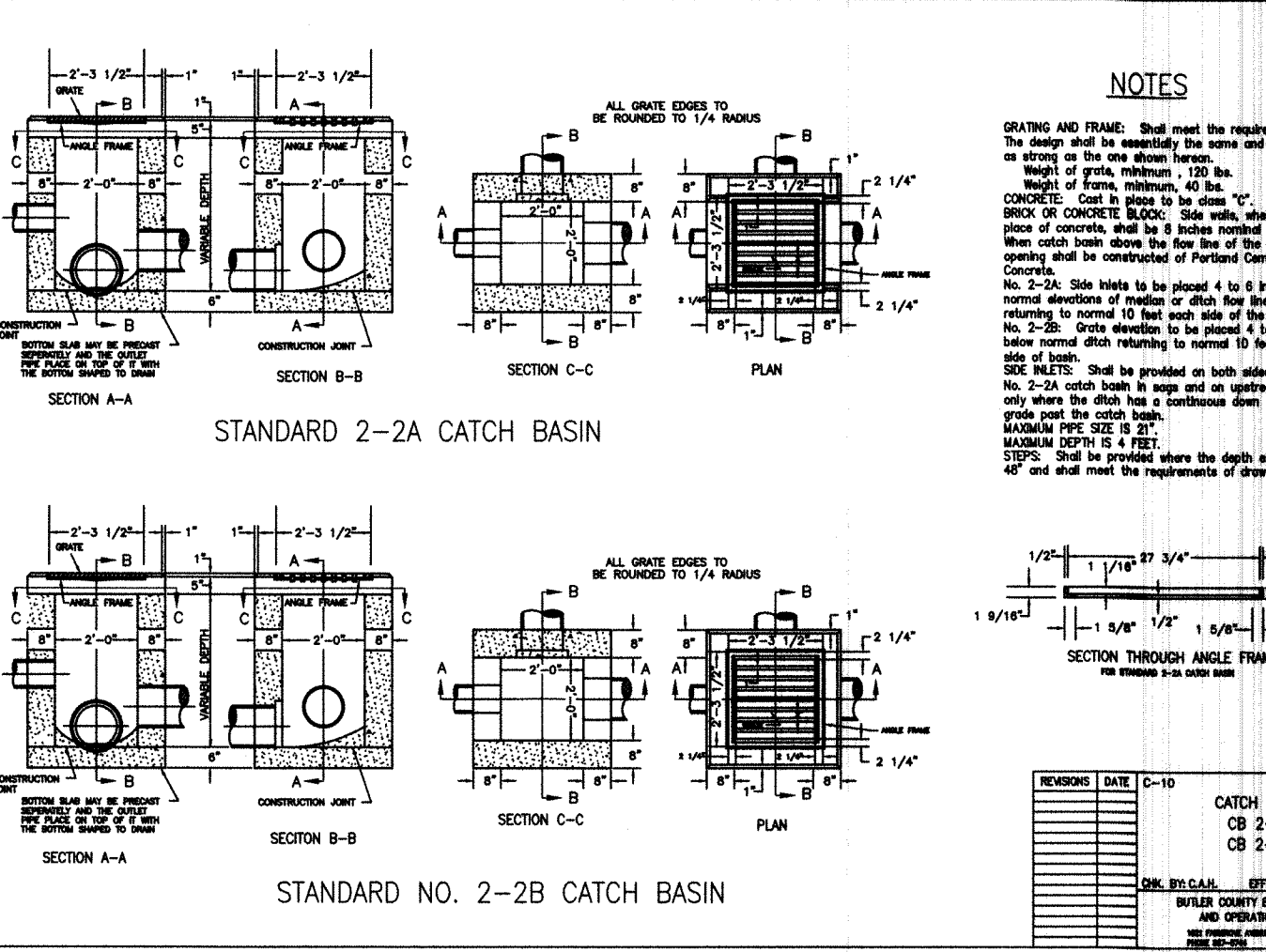
**WINDING CREEK
SECTION 24
AKA CARRIAGE HILL
SECTION 24
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO**

NYLOPLAST 12" INLINE DRAIN: 2712AG



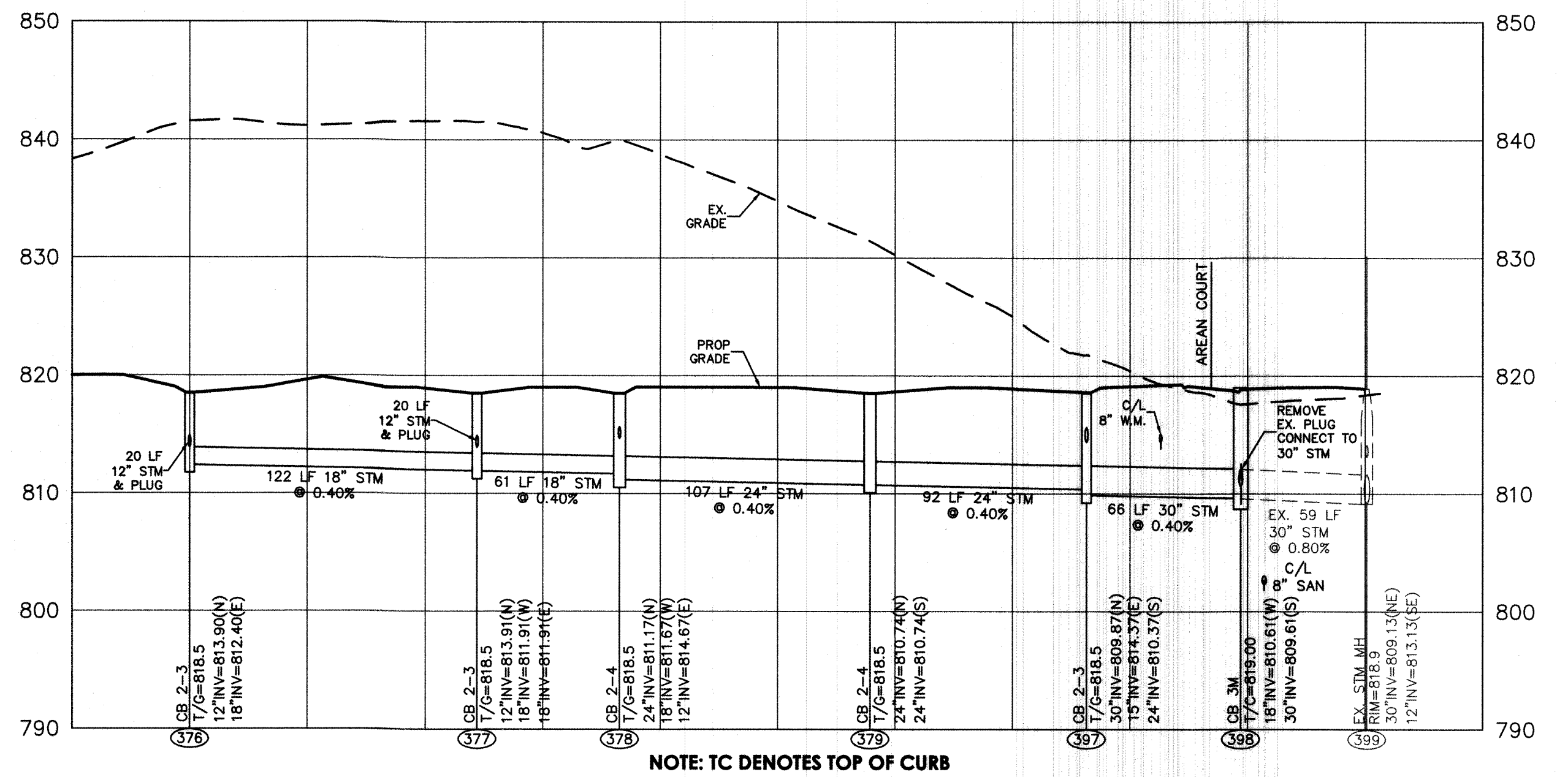
- GRATES/COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-06 WITH THE EXCEPTION OF THE BRIDGE GRATE.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-06.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2012 FOR CORRUGATED HDPE (ADS N-12) MANJOR DUAL WALL, N-12 HP, & PVC SEWER.
- DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
- DIMENSIONS ARE IN INCHES.
- SEE DRAWING NO. 7001-110-384 FOR ADS-N-12 & MANJOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-384 FOR N-12 HP BELL INFORMATION.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DRAWN BY: EBC DATE: 04-03-06 REVISED BY: CCA PROJECT NO: NAME DATE: 06-19-13 DWG SIZE: A SCALE: 1/8" = 1'-0" SHEET: 1 OF 1 DWG NO.: 7003-110-035 REV: D	3100 VERONA AVE BURLING, OH 44014 PHN (770) 832-8443 FAX (770) 832-8869 WWW.NYLOPLAST.COM
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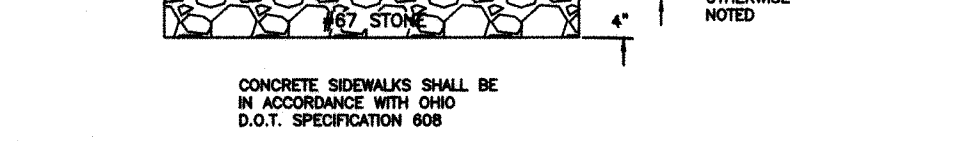


STORM SEWER 392-397
1"=50' HOR. / 1"=10' VERT.

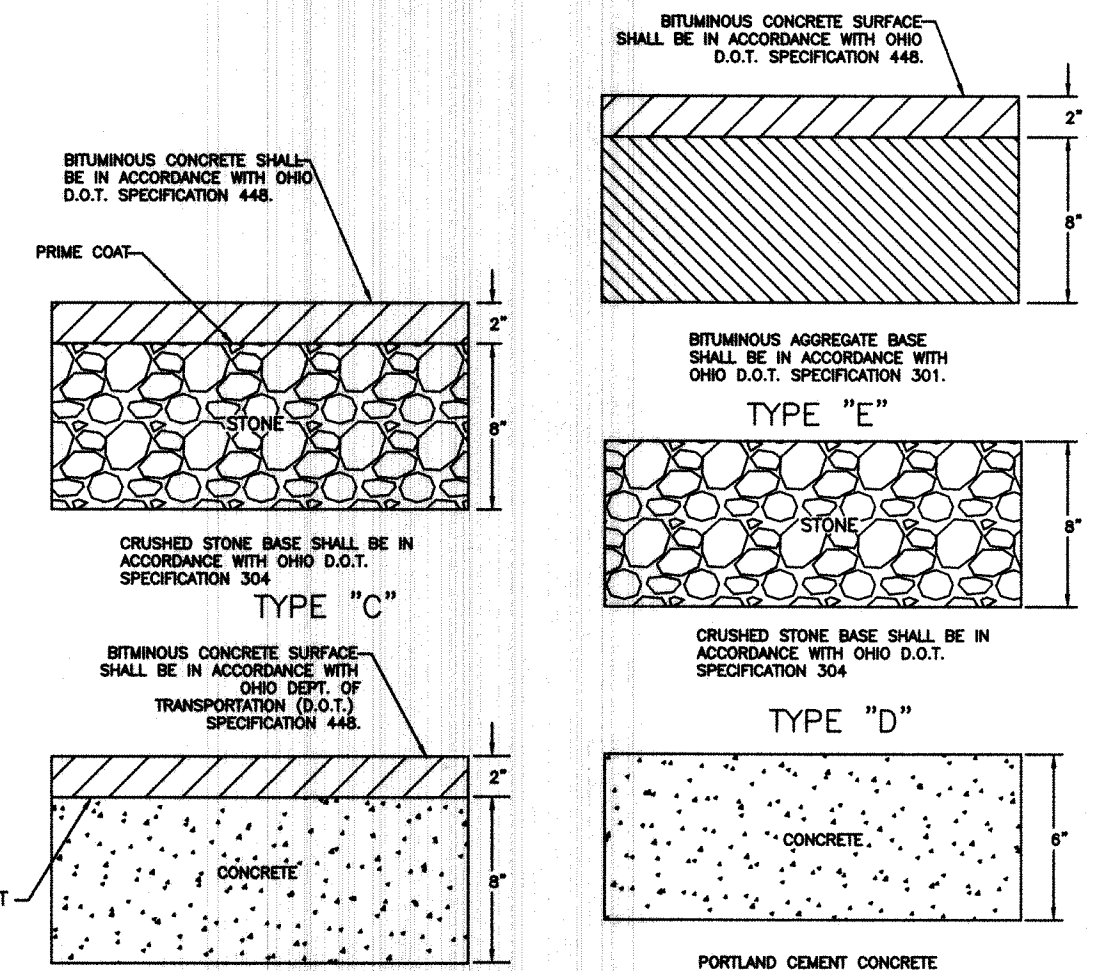
STORM SEWER 390 & 391
1"=50' HOR. / 1"=10' VERT.



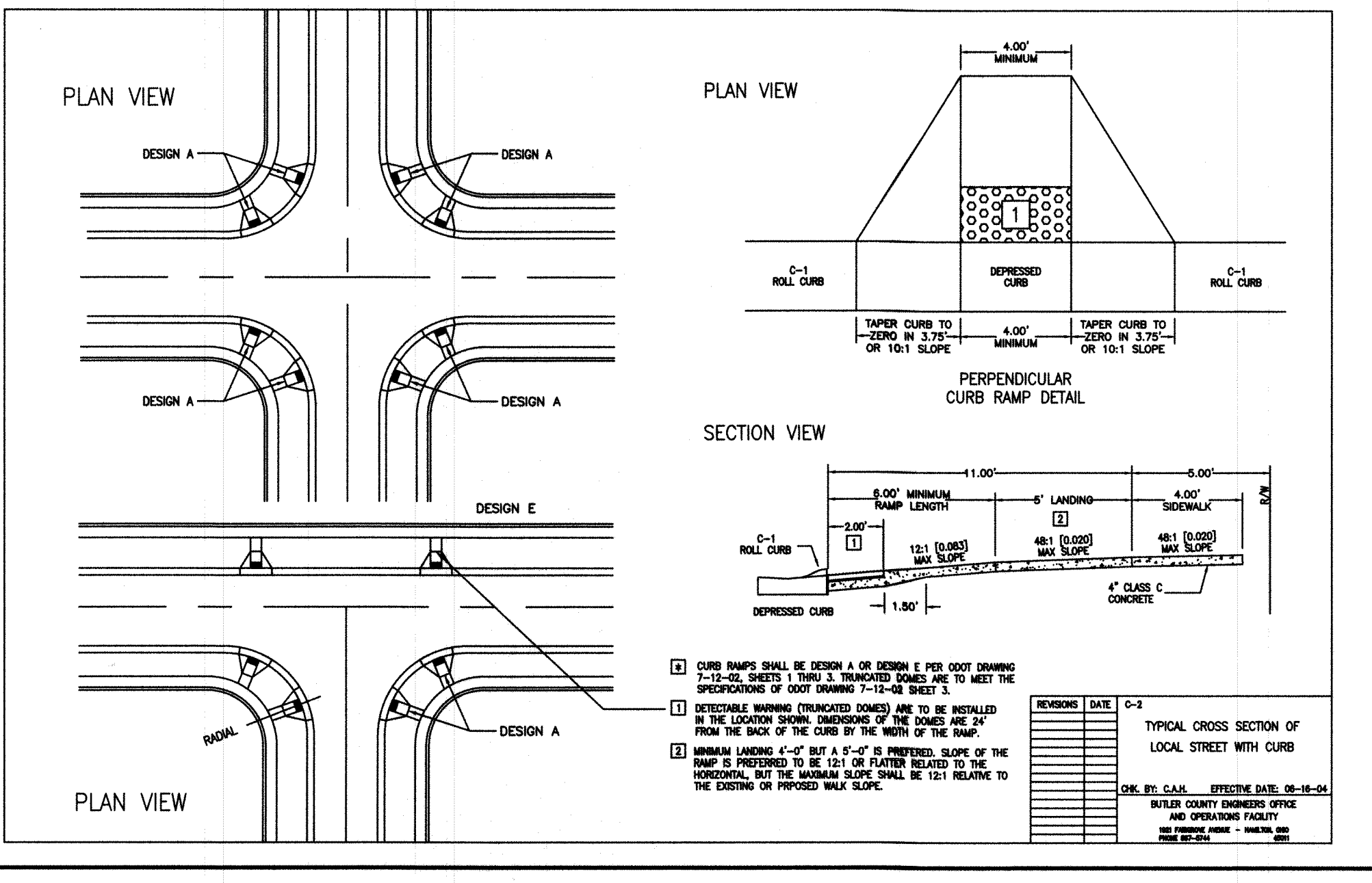
STORM SEWER 376-379 & 398-399
1"=50' HOR. / 1"=10' VERT.



WALK REPLACEMENT DETAILS
NOT TO SCALE



PAVEMENT REPLACEMENT DETAILS
NOT TO SCALE

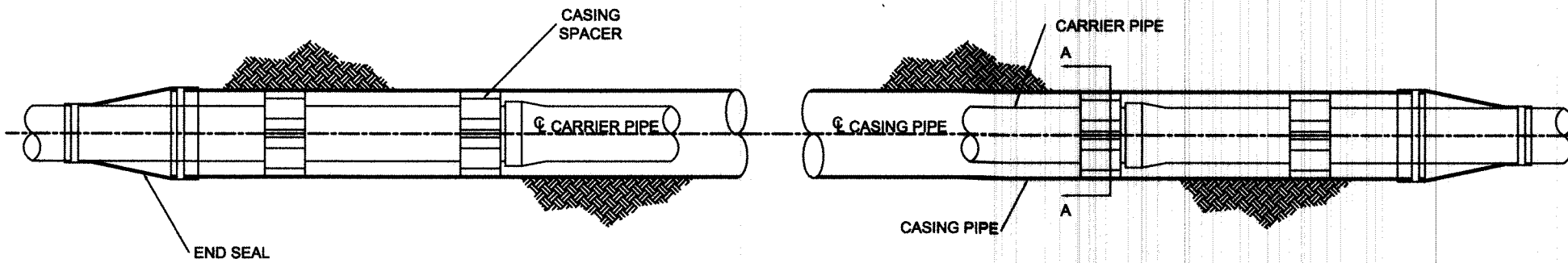
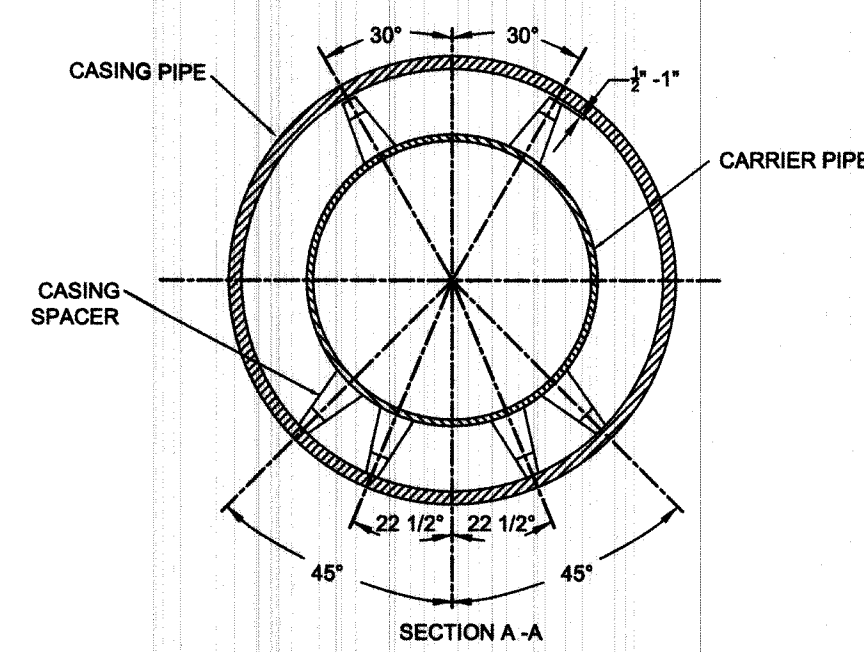


Project Manager	RA
Drawn By	NAK
DWG	04476064-IMP-SECTION 24
X-Ref(s)	n/a
Issue/Revision	No. Date

**WINDING CREEK
SECTION 24
AKA CARRIAGE HILL
SECTION 24**

CASING SPACERS SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH SIDE OF CARRIER PIPE JOINTS, WITHIN ONE (1) FOOT OF EACH END OF THE CASING PIPE AND ON 6 FOOT CENTERS THEREAFTER.

- 1) THE CARRIER PIPE SHALL BE BRACED WITHIN THE CASING PIPE WITH STAINLESS STEEL CASING SPACERS THAT PLACE THE CARRIER PIPE IN A "RESTRAINED" POSITION TO PRECLUDE POSSIBLE FLOATATION WHILE PROVIDING 1/2" CLEARANCE BETWEEN THE TOP RUNNERS AND THE CASING PIPE.
- 2)
- 3) THERE SHALL BE TWO (2) RUNNERS ON TOP AND TWO (2) RUNNERS ON BOTTOM OF CASING SPACER FOR CARRIER PIPE DIAMETERS OF 4-12" OR TWO (2) RUNNERS ON TOP AND FOUR (4) RUNNERS ON BOTTOM FOR CARRIER PIPE DIAMETERS OF 14-36". CASING SPACERS SHALL BE CASCADE WATERWORKS MODEL CSS.
- 4) AT EACH END OF THE CASING PIPE, THE CARRIER AND CASING PIPE SHALL BE WRAPPED WITH CASCADE WATERWORKS MODEL CCES END SEALS.

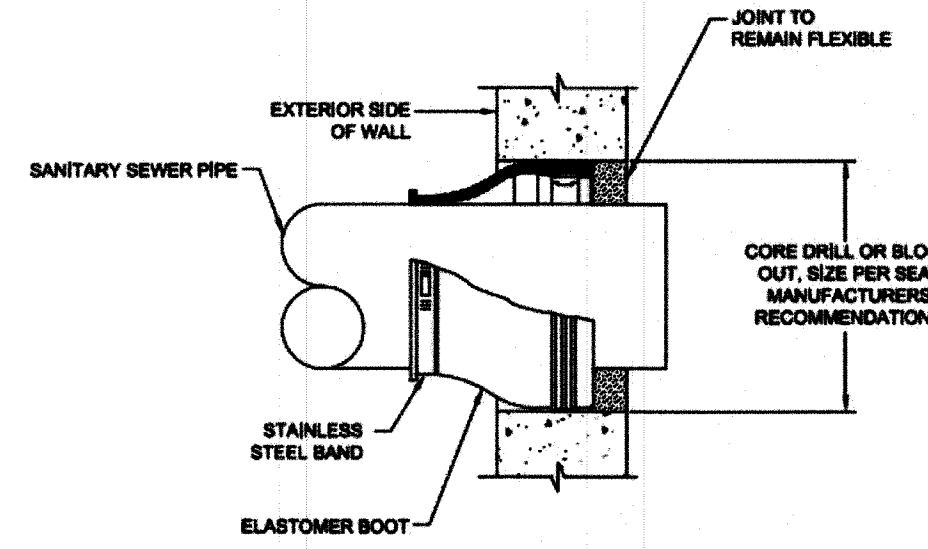


SEWER FORCE MAIN & WATER MAIN ENCASEMENT DETAIL

BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

4370

TYPE-4



NOTES:
WALL PENETRATIONS SHALL BE LOCATED WITHIN A RISER SECTION AND NOT A WALL JOINT

CONNECTION TO EXISTING MANHOLE



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6150

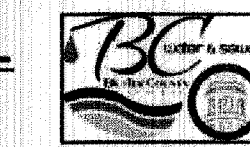
DEAD END DETAIL W/ PERMANENT F.H.



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

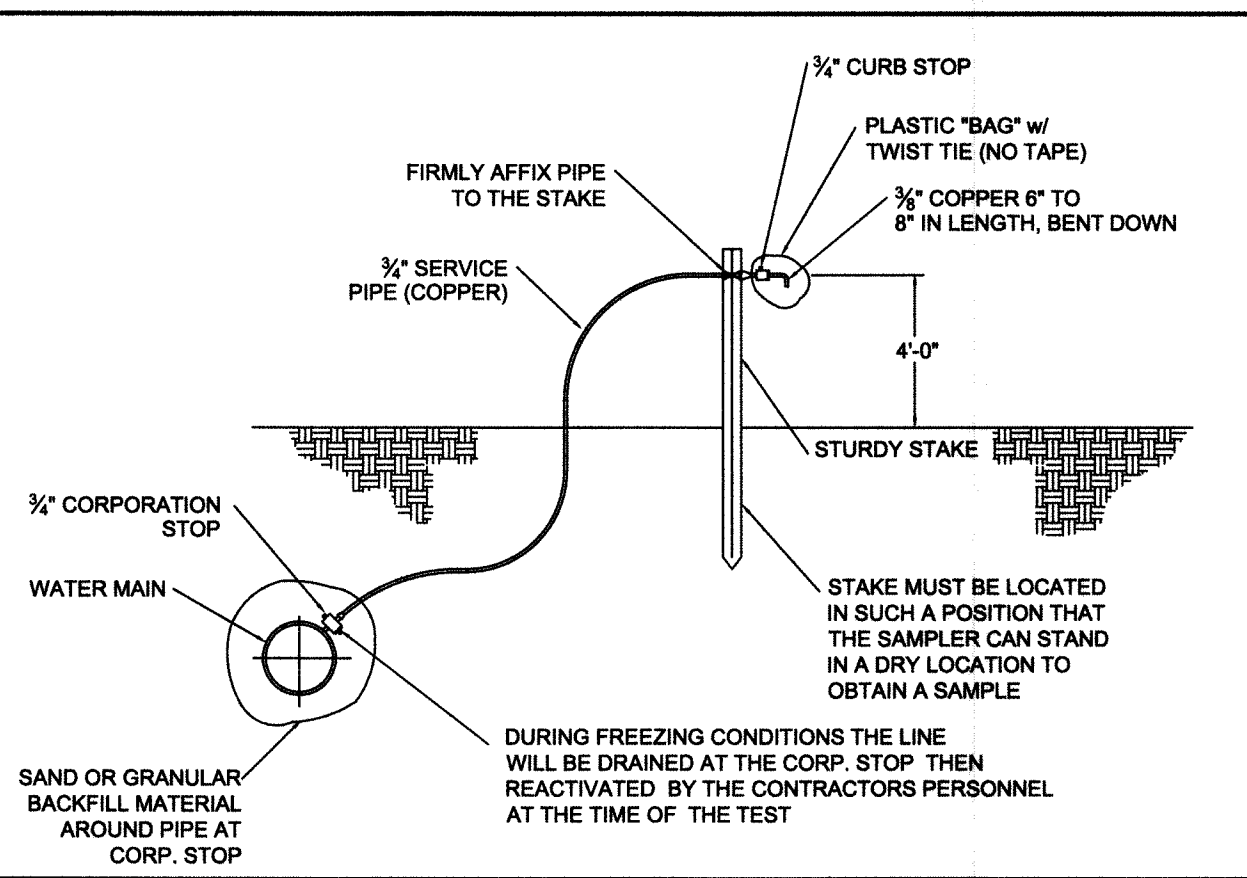
6130

DEAD END DETAIL W/ TEMP F.H.



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130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

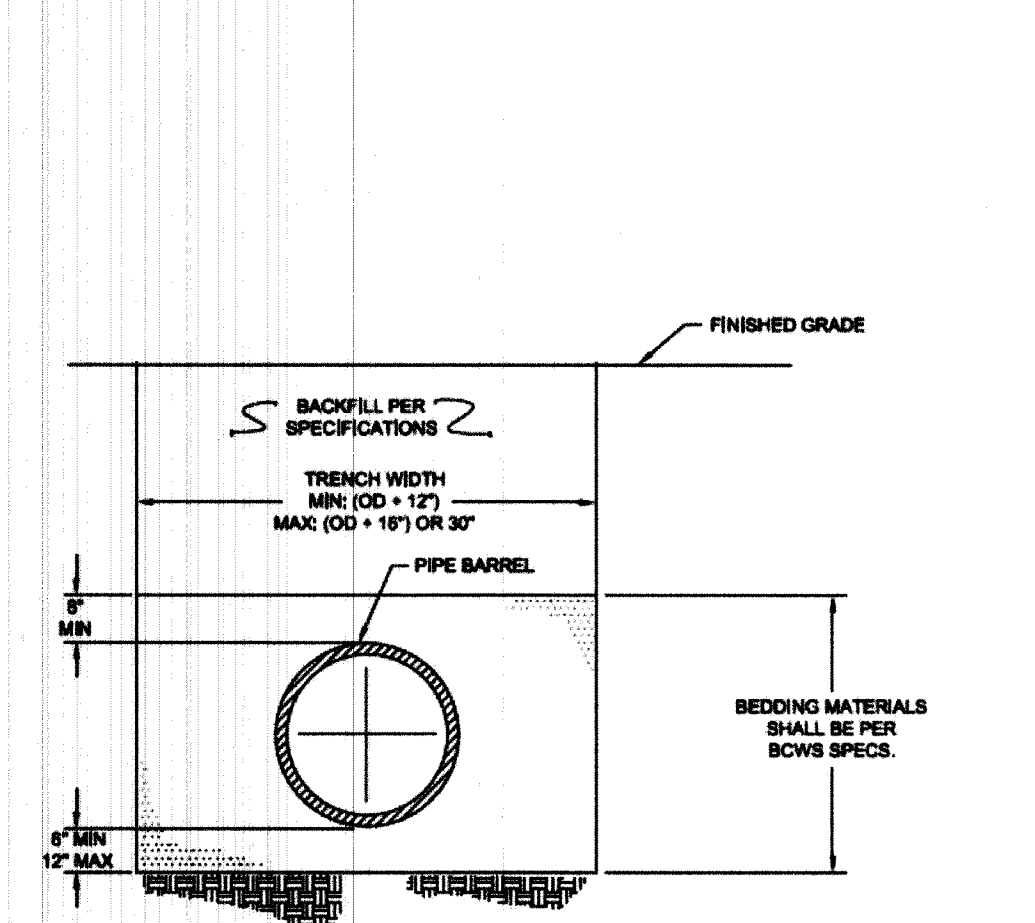
6140



TEMP. PURITY TEST STATION

BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5260

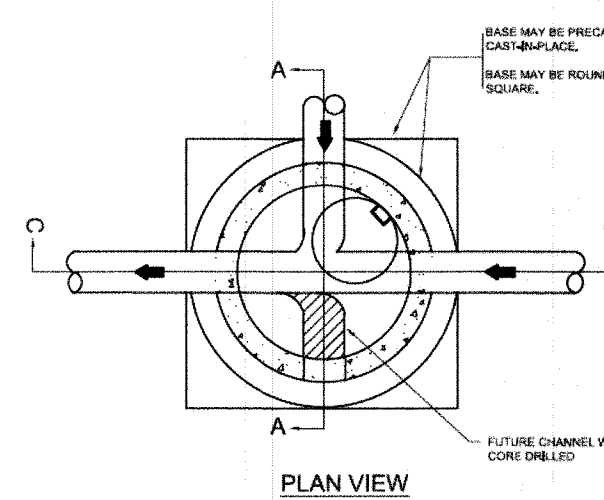


TYPICAL TRENCH DETAIL SEWER INSTALLATION



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6270

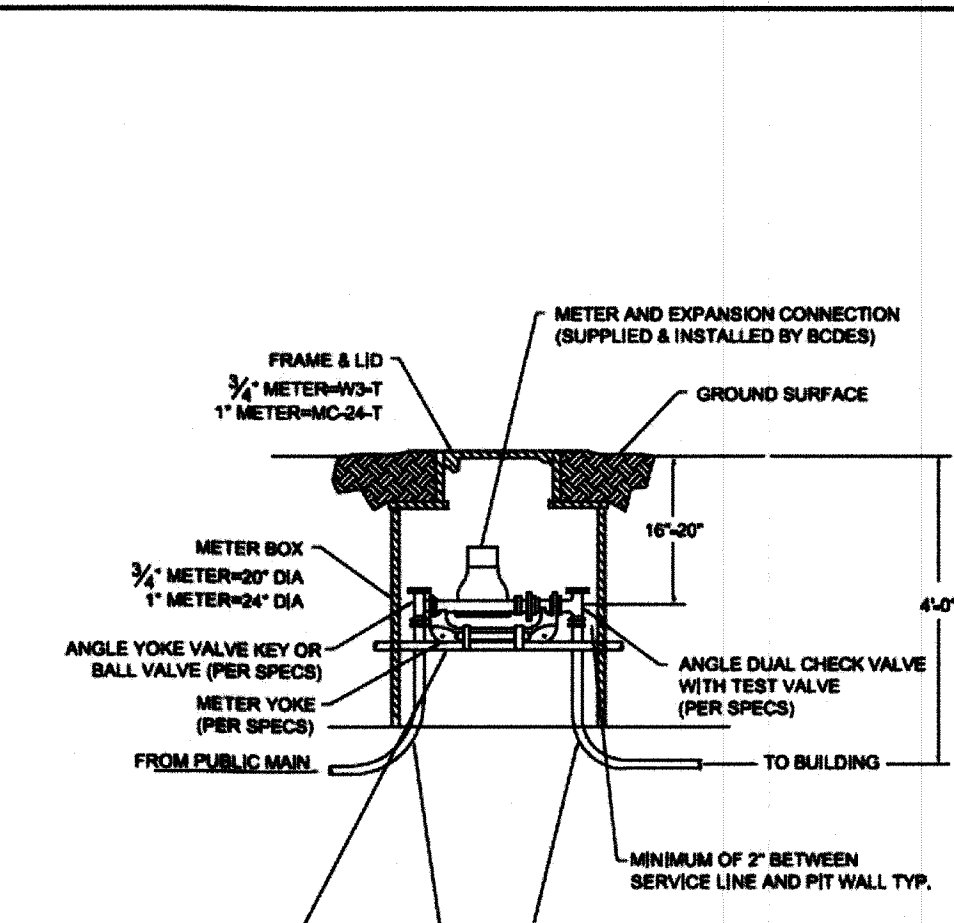


STANDARD CAST IN-PLACE MANHOLE



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6130

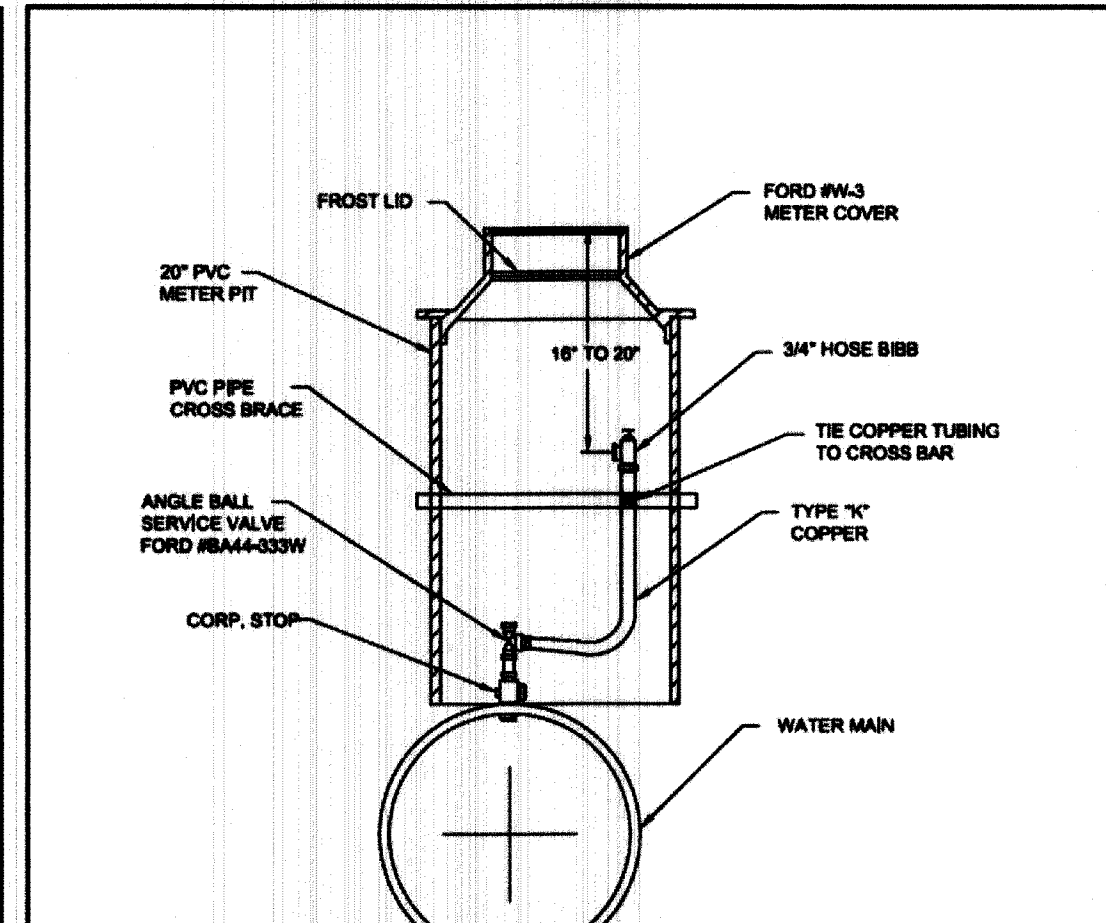


STANDARD INSTALLATION FOR 3/4" AND 1" WATER METER SETTINGS



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6150

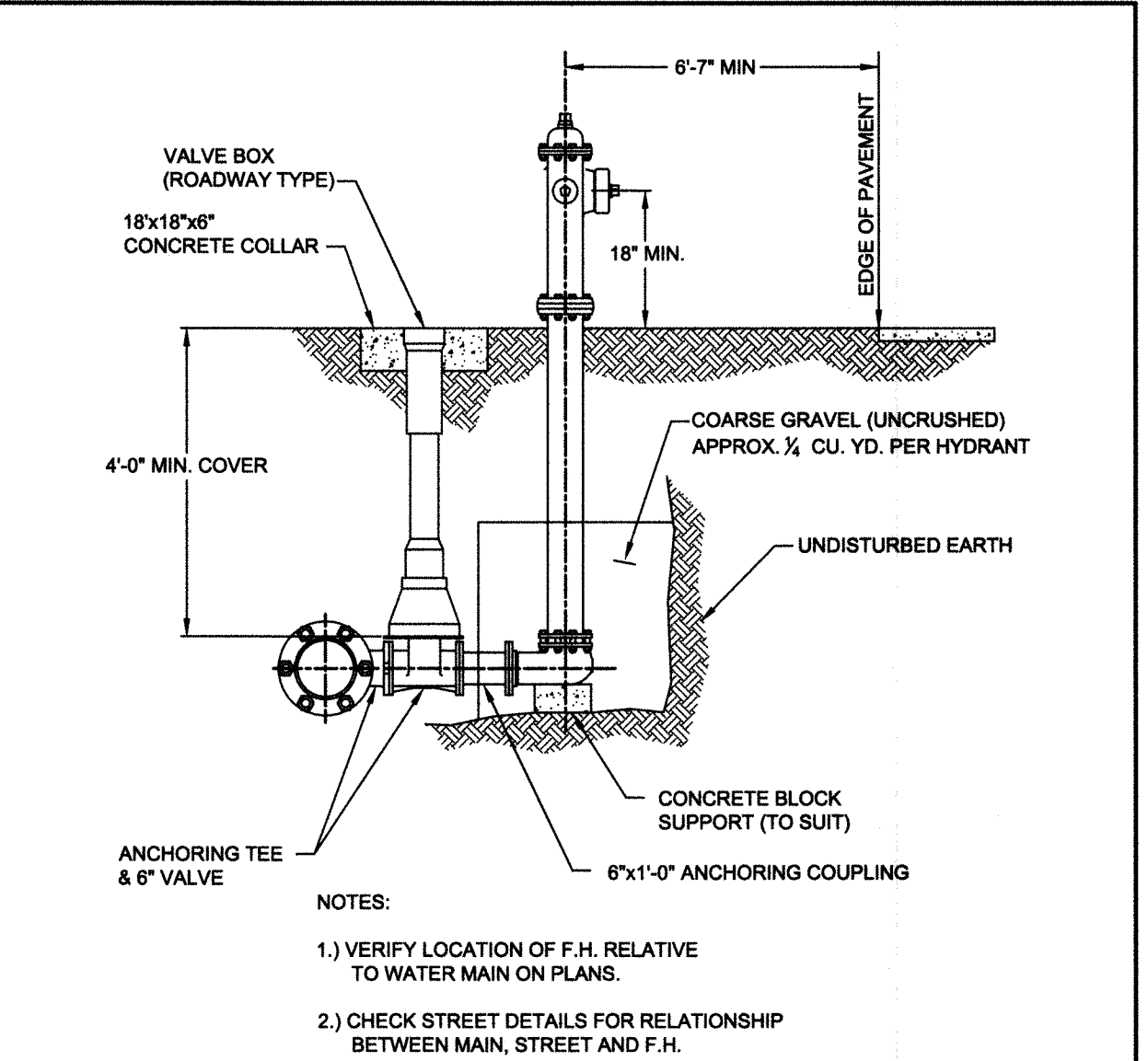


MANUAL AIR RELEASE VALVE DETAIL



BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

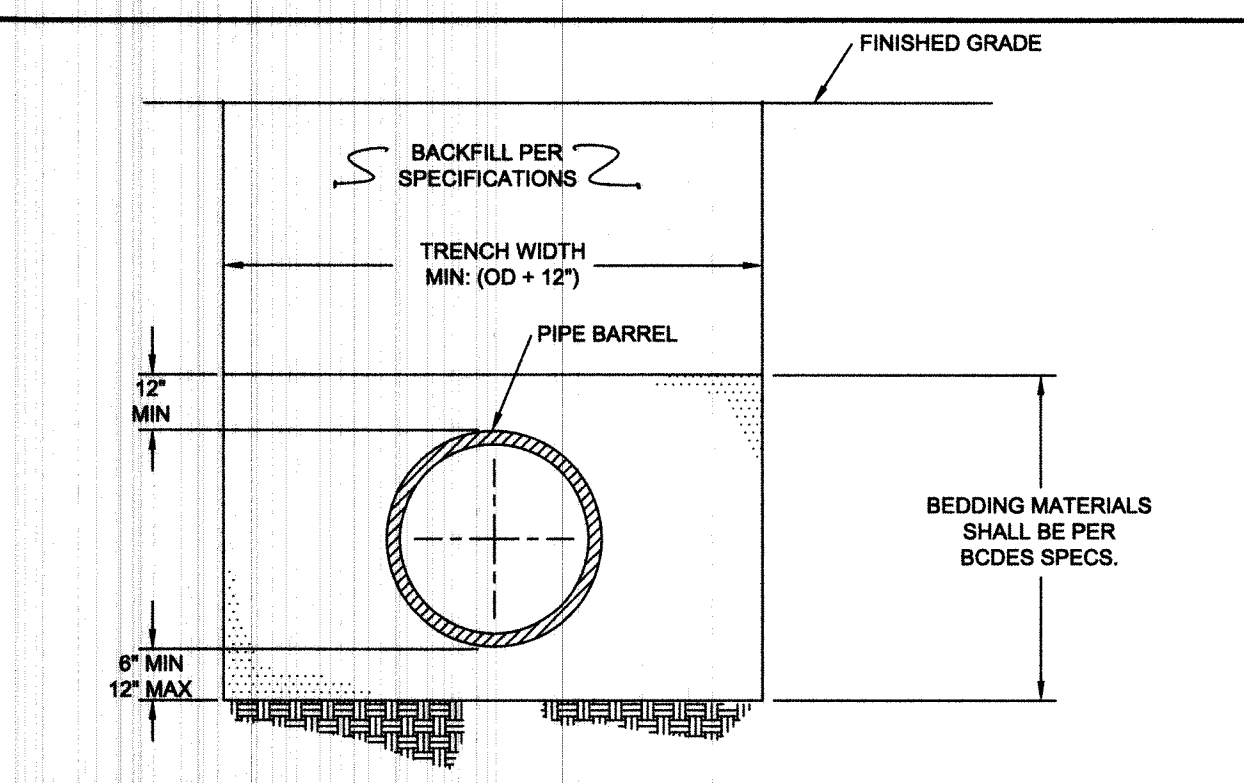
6290



TYPICAL FIRE HYDRANT INSTALLATION

BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

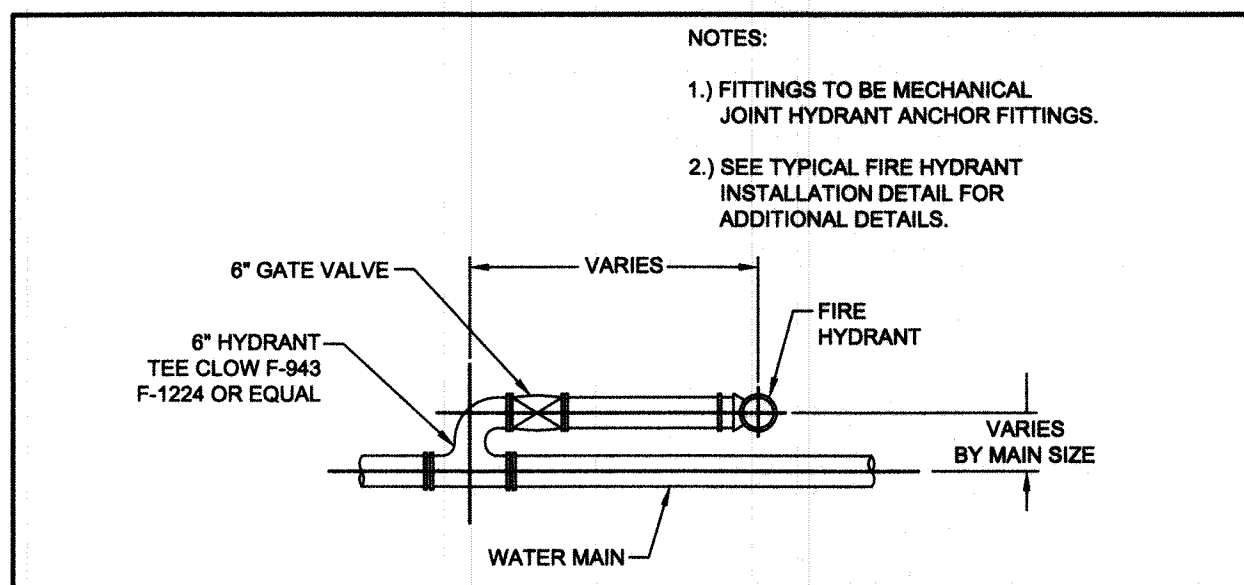
5110



TYPICAL TRENCH DETAIL WATER MAIN INSTALLATION

BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5280



SETTING FOR HYDRANT ADJACENT TO MAIN

BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5120

Architecture 3700 Park 42 Drive Suite 1308
Engineering Cincinnati OH 45241
Landscape Architecture Phone 513.759.0004
Planning www.mspsdesign.com
Surveying

Project Manager RA
Drawn By NAK
DWG 04476064-IMP-SECTION 24
X-Ref(s) n/a

Issue/Revision	No.	Date

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**WINDING CREEK SECTION 24
AKA CARRIAGE HILL SECTION 24
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO**



N:\land_projects\04000\04076\04076.dwg (04/7/2019 10:25:06 AM, Nak, 1:1)

Permanent Seeding

SITE PREPARATION

- A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality). Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.
- The site shall be graded as needed to permit the use of conventional equipment for seeded preparation and seeding.
- Resoil shall be applied where needed to establish vegetation.

SEEDBED PREPARATION

- Lime-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lbs./1,000 sq. ft. or 2 tons/ac.
- Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10 or 12-12-12 analysis.
- The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping sites, the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug. 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seeded preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

DORMANT SEEDINGS

- Seedings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate, but probably will not be able to survive the winter.
- The following methods may be used for "Dormant Seeding":
 - From October 1 through November 20, prepare the seedbed, and the required amounts of lime and fertilizer, then mulch and anchor.
 - After November 20, and before March 15, broadcast the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
 - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilizer, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.

MULCHING

- Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.

MULCHING TEMPORARY SEEDING

- Applications of temporary seeding shall include mulch that shall be applied during or immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.

MULCH BERM DETAIL

N.T.S.

MULCH BERM DETAIL

N.T.S.

MULCH BERM DETAIL

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MULCH BERM DETAIL

N.T.S.

Permanent Seeding

- Permanent seeding shall not be considered established for at least 1 full year from the time of planting. Seeded areas shall be inspected for failure and reestablished as needed. Depending on site conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.
- Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

Mixture	Formula	lb./ac.	lb./1,000 ft. ²	Time	Mowing
Creeping Red Fescue Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 3"
Tall Fescue	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 4"
Dwarf Fescue	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 thereafter.	Do not mow
Flat Pea Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 thereafter.	Do not mow

Note: Following soil test recommendations is preferred to fertilizer rates shown above.

Temporary Seeding

Seeding Dates	Species	lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats Tall Fescue Annual Ryegrass	3 1 1	4 bushel 40 lb. 40 lb.
August 16 to November 1	Rye Tall Fescue Annual Ryegrass	3 1 1	2 bushel 40 lb. 40 lb.
November 1 to Spring Seeding	Wheat Tall Fescue Annual Ryegrass Perennial Ryegrass Tall Fescue Annual Ryegrass	3 1 1 1 1 1	2 bushel 40 lb. 40 lb. 40 lb. 40 lb. 40 lb.

Note: Other approved seed species may be substituted.

Temporary Seeding

Temporary Seeding

Temporary Seeding

Temporary Seeding

Temporary Seeding

Temporary Seeding

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Temporary Seeding

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Temporary Seeding

Temporary Seeding

Mulching

- Mulch and/or other appropriate vegetative practices shall be applied to disturbed areas within 7 days of grading if the area is to remain dormant (undisturbed) for more than 45 days on areas and portions of the site which can be brought to final grade.
- Mulch shall consist of one of the following:
 - Straw-Straw shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lbs./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45 lb. bales of straw in each section.
 - Hydroseeders-Wood cellulose fiber shall be used at 2,000 lb./ac. or 46 lbs./1,000 sq. ft.
 - Other-Other acceptable mulches include mulch matting applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

Mulching

Mulching

Mulching

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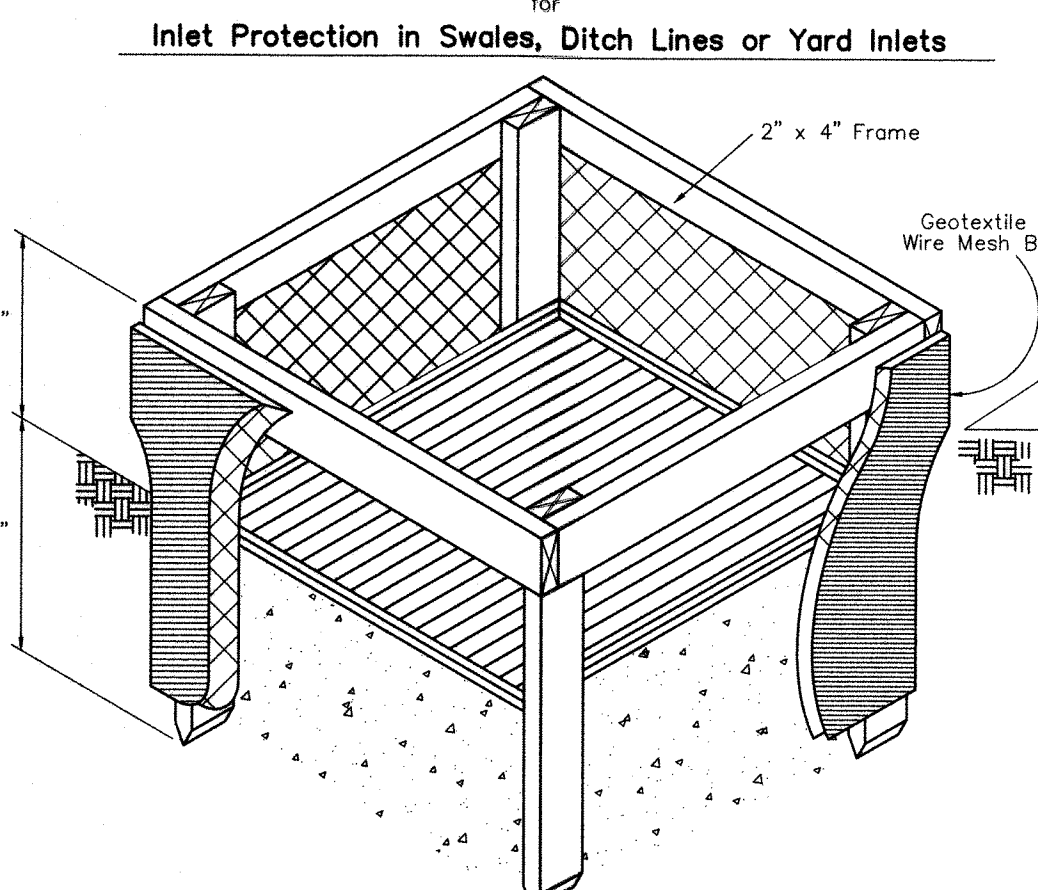
Mulching

Mulching

Mulching

Mulching

Inlet Protection in Swales, Ditch Lines or Yard Inlets



- 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-by-4 in. construction grade lumber. The 2-by-4 in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-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.

Specifications for Silt Fence

Specifications for Silt Fence

Specifications for Silt Fence

Specifications for Silt Fence

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Specifications for Silt Fence

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Specifications for Silt Fence

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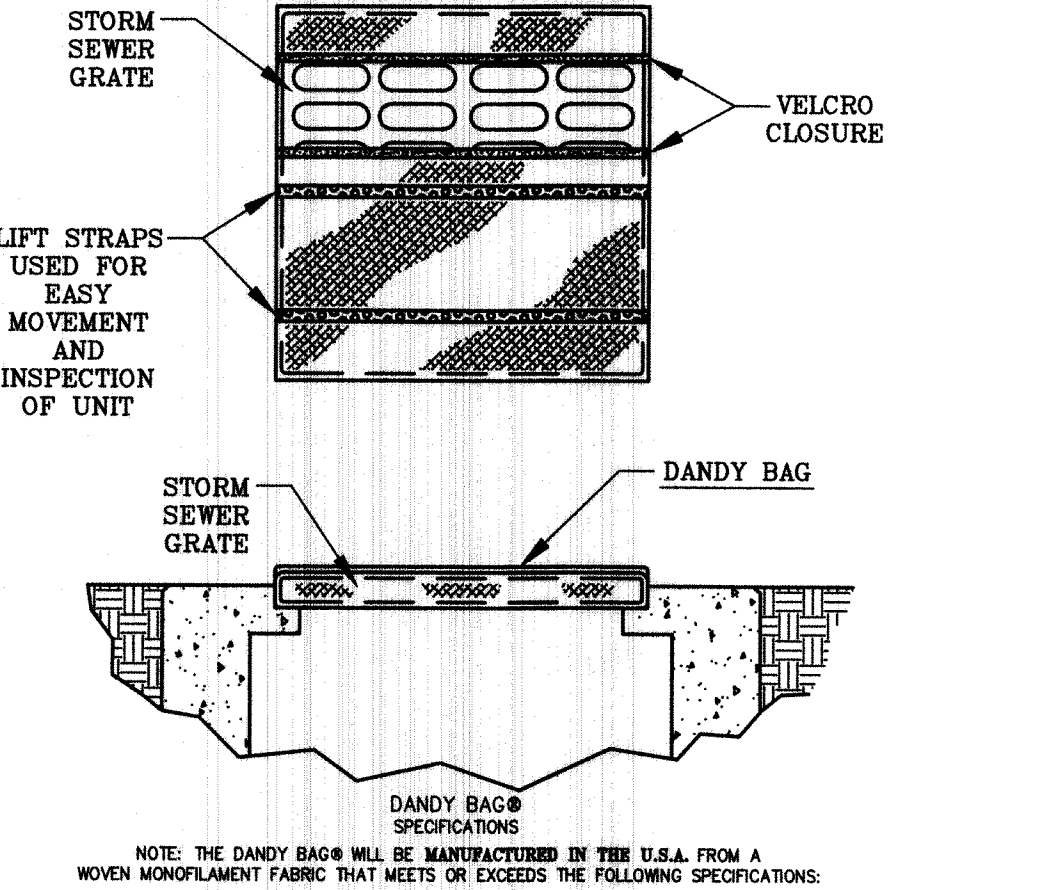
Specifications for Silt Fence

Specifications for Silt Fence

Specifications for Silt Fence

Specifications for Silt Fence

DANDY BAG®



DANDY BAG SPECIFICATIONS

NOTE: THE DANDY BAG SHALL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONUMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	Units	Value
Grab Tensile Strength	ASTM D 4532	lb. (kg)	1.62 (365) X 0.85 (200)
Grab Tensile Elongation	ASTM D 4532	%	24 X 10
Puncture Strength	ASTM D 4533	lb. (kg)	240 (60)
Mullen Burst Strength	ASTM D 3788	kPa (psi)	3029 (450)
Trapezoid Tear Strength	ASTM D 4533	lb. (kg)	0.81 (115) X 0.33 (75)
UV Resistance	ASTM D 4533	h	1700
Apparent Opening Size	ASTM D 4751	mm (US Std Sieve)	0.425 (10)
Flow Rate	ASTM D 4441	l/min (gal/min/AU)	582 (145)
Permeability	ASTM D 4441	Sec	

Note: All Dandy Bags® can be ordered with our optional oil absorbent pillows.

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

Specifications for Matting

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Specifications for Matting

MSP DESIGN
McGill Smith Punshon

3700 Park 42 Drive
Suite 1908
Cincinnati OH 45241
Phone 513.759.0004
www.mspdesign.com

Project Manager RA
Drawn By NAK
DWG 04476064-IMP-SECTION 24
X-Ref(s) n/a

Issue/Revision	No.	Date

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**WINDING CREEK SECTION 24
AKA CARRIAGE HILL SECTION 24
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO**

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
CALL TWO WORKING NUMBERS (NON MEMBERS MUST BE CALLED DIRECTLY)

Sheet Title
Project Number 04476.06
Drawing Scale AS NOTED
Sheet Number 9/9
File Number 04476

