

CITY OF EASTLAKE, OHIO

EDISON & MONDAMIN DRIVE

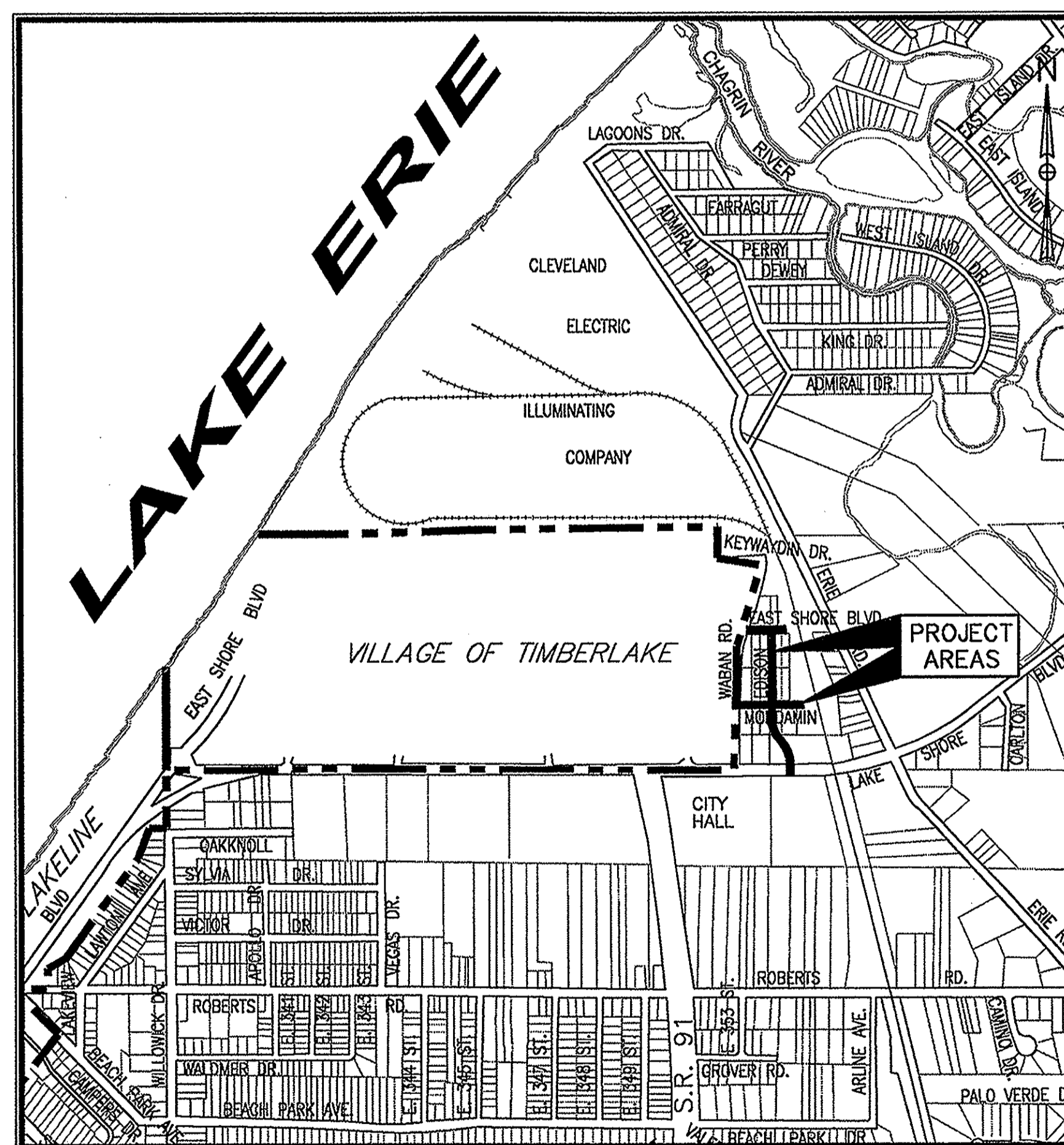
STORM SEWER IMPROVEMENTS

LAKE COUNTY, OHIO

JULY 2010

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LOCATION MAP

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 8150 Sterling Court Mentor, Ohio 44060
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APPROVALS

MAYOR	TED ANDRZEJEWSKI	DATE
SERVICE DIRECTOR	MIKE SEMIK	DATE
CITY ENGINEER	TOM GWYDIR, P.E.	DATE

OFFICIALS

HONORABLE MAYOR	TED ANDRZEJEWSKI
FINANCE DIRECTOR	BRIAN CONDRON
SERVICE/RECREATION DIRECTOR	MIKE SEMIK
SAFETY DIRECTOR	TED ANDRZEJEWSKI
CITY ENGINEER	TOM GWYDIR, P.E.

MEMBERS OF COUNCIL

DENNIS MORLEY	PRESIDENT
JOE D'AMBROSIO	VICE PRESIDENT
LAURA A. DePLEDGE	BRYAN LAJEUNESSE
KEN HOEFLE	DONNA VAUGHN
DAVID KNUCHEL	

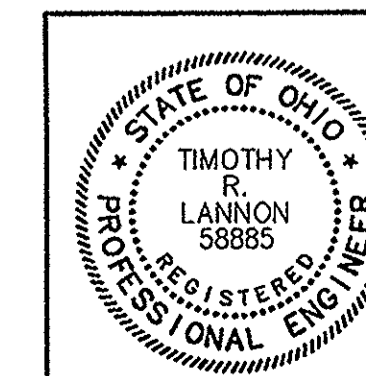
UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES
 CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
 1-800-362-2764
 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
 SERVICE CALL: 1-800-925-0988

NOTE:
 THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN
 THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY
 NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY
 OTHER PURPOSE.



PLANS PREPARED BY:
CT Consultants
 engineers | architects | planners

BY: *Tim Lannon*
 TIM LANNON, P.E. NO. 58885

1. GENERAL

ALL WORK SHALL, AT ALL TIMES, BE SUBJECT TO THE DIRECT SUPERVISION OF THE EASTLAKE CITY ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE. ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT.

2. PRE-CONSTRUCTION AUDIO-VIDEO COLOR TAPING

A DUPLICATE COPY OF ALL AUDIO-VIDEO COLOR TAPING ALONG ALL PROPOSED WORK AREAS, ROADS, AND EASEMENT AREAS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION.

3. PRECONSTRUCTION CONFERENCE

AT LEAST FIVE DAYS PRIOR TO THE START OF ACTUAL CONSTRUCTION WORK, A PRECONSTRUCTION CONFERENCE WILL BE HELD AT A TIME MUTUALLY AGREEABLE TO THE PARTICIPANTS, THE ENGINEER, APPROPRIATE CITY OFFICIALS, THE CONTRACTOR, AND REPRESENTATIVES OF THE UTILITY COMPANIES SHALL ATTEND THE MEETING.

4. CONSTRUCTION OBSERVATION

THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING MR. TOM GWDYDIR (440) 530-2306 A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR OBSERVATION. IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT MR. GWDYDIR TO AVOID UNNECESSARY OBSERVATION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE TIME INCURRED.

5. LIMITS OF WORK

THE CONTRACTOR'S CONSTRUCTION OPERATIONS ARE CONFINED TO THE AREA WITHIN THE ROAD RIGHT-OF-WAY AND TEMPORARY EASEMENT AREAS. THE APPROXIMATE LIMITS OF CONSTRUCTION ARE SHOWN ON THE PLANS, WHICH ARE BASED ON THE ROADWAY CROSS SECTIONS. THE CROSS SECTIONS INDICATE THE APPROXIMATE LIMITS OF THE EARTHWORK NECESSARY FOR THE PROPOSED IMPROVEMENTS. THESE LIMITS ARE APPROXIMATE AND MAY BE MODIFIED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE THE APPROPRIATE CONSTRUCTION METHODS TO PREVENT DISTURBING ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS.

6. NOTICE TO BIDDERS

PRIOR TO ANY SUBSURFACE INVESTIGATION OF THE PROJECT, ALL BIDDERS SHALL OBTAIN APPROVAL FROM THE ENGINEER.

7. SUBSURFACE CONDITIONS.

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE THEIR OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR MAY EXAMINE RECORDS OF BORINGS AND ANY OTHER SUBSURFACE INVESTIGATIONS MADE FOR DESIGN PURPOSES.

8. SUBSURFACE INFORMATION.

BORINGS AND OTHER SUBSURFACE INVESTIGATIONS ARE INCOMPLETE AND ARE NOT A PART OF THE CONTRACT DOCUMENTS, EXCEPT TO THE EXTENT THAT THE RESULTS THEREOF ARE SPECIFICALLY SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS, AND ARE NOT WARRANTED TO SHOW THE ACTUAL SUBSURFACE CONDITIONS. THE CONTRACTOR AGREES THAT HE WILL MAKE NO CLAIM FOR ADDITIONAL COST AGAINST THE OWNER OR THE ENGINEER, IF, IN PERFORMANCE OF THE WORK HE FINDS THAT THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED DO NOT CONFORM TO THOSE INDICATED BY SAID BORINGS AND OTHER SUBSURFACE INVESTIGATIONS.

9. PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

10. DAMAGE TO OFFSITE PROPERTY

THE CONTRACTOR SHALL NOT DAMAGE ANY OFFSITE PROPERTY. ANY DAMAGED PROPERTY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL FURNISH THE CITY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION. REQUESTS FOR PARTIAL PAYMENT OF ANY WORK PERFORMED WILL NOT BE PROCESSED UNTIL SAID CLAIMS ARE ADDRESSED TO THE CITY'S SATISFACTION.

11. HOURS OF CONSTRUCTION

ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FROM 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY. UNLESS OTHERWISE APPROVED BY THE CITY AND THE ENGINEER.

12. DISPOSAL OF EXCESS MATERIAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND COPIES OF ANY PERMITS NECESSARY TO USE THE SITE.

13. CONSTRUCTION AND MATERIAL SPECIFICATIONS

ALL WORK CONTEMPLATED SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IF THE PLANS AND SPECIFICATIONS ARE SILENT ON A MATTER THE WORK SHALL BE GOVERNED BY THE 2010 O.D.O.T. C & MS AND THE REGULATIONS OF THE CITY OF EASTLAKE. IN THE EVENT OF A DISCREPANCY BETWEEN O.D.O.T. & THE EASTLAKE REGULATIONS, THE MOST RESTRICTIVE STANDARD SHALL APPLY. REFERENCE THROUGHOUT THESE PLANS TO "THE ENGINEER" SHALL BE THE ENGINEER OF THE CITY OF EASTLAKE.

14. STATIONING AND LOCATIONS

ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS APPROVED BY THE ENGINEER.

15. EXISTING UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE RESPECTIVE UTILITIES AS REQUIRED BY O.R.C. SECTION 153.64.

BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764 AND THE "OIL AND GAS PRODUCERS PROTECTIVE" AT 1-800-928-0988 FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF EASTLAKE, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE CITY OF EASTLAKE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.

WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THE MAINTENANCE OF THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSATABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.

ALL UTILITY LINES CROSSING THE PROPOSED UTILITY TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THIS WORK.

GAS SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS. CONTRACTOR TO LOCATE AND SUPPORT DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THIS WORK

GAS SERVICE CONNECTION REPLACEMENT.
DOMINION EAST OHIO GAS CO. WILL BE REPLACING THE GAS SERVICE CONNECTIONS WITHIN THE PROJECT WORK LIMITS FOR THE MAJORITY OF THE EXISTING HOMES. THE CONTRACTOR SHALL COORDINATE THEIR SCHEDULE TO ALLOW THE GAS COMPANY TO COMPLETE THIS WORK. NO ADDITIONAL CONTRACT TIME OR COST SHALL BE GRANTED TO THE CONTRACTOR AS A RESULT OF THE GAS CONNECTION REPLACEMENT WORK.

<p>GAS: DOMINION EAST OHIO GAS 1201 EAST 55TH STREET CLEVELAND, OHIO 44103 PHONE: (216) 736-6675 MR. MIKE ANTONIOWS</p> <p>WATER: LAKE COUNTY UTILITY DEPARTMENT 105 MAIN STREET PAINESVILLE, OHIO 44077 PHONE: (440) 350-2845 MR. ALBERT SAARI P.E.</p> <p>SEWER: CITY OF EASTLAKE 35150 LAKESHORE BLVD. EASTLAKE, OHIO 44095 PHONE: (440) 951-1416 MR. MIKE SEMIK SERVICE DIRECTOR</p>	<p>TELEPHONE: AT&T</p> <p>CLEVELAND, OHIO 44111 PHONE: (216) 476-6142 MR. ERIC WITTEBORE FIRST FLOOR</p> <p>ELECTRIC: THE ILLUMINATING COMPANY 6896 MILLER ROAD BRECKSVILLE, OHIO 44141 PHONE: (440) 546-8748 MR. FRANK DIBBS</p> <p>CABLE: TIME-WARNER 7820 DIVISION DRIVE MENTOR, OHIO 44060 PHONE: (440) 974-3401 MR. LARRY BOCK</p>
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16. EXISTING UTILITY CROSSINGS

THE CONTRACTOR SHALL EXCAVATE THE EXISTING WATER MAIN AT PROPOSED CROSSINGS AT EDISON STATION 104+79 AND 109+32 FOR INSPECTION BY LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU) TO DETERMINE IF WATER MAIN LOWERING IS NECESSARY. ALL WATER MAIN WORK SHALL BE IN ACCORDANCE WITH LCDU RULES AND REGULATIONS AND CONSTRUCTED BY A CONTRACTOR LICENSED BY LCDU.

17. MAINTAINING TRAFFIC

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614 - MAINTAINING TRAFFIC" SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION. ALL TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

THE CONTRACTOR SHALL MAINTAIN ONE LANE OF ONE-WAY TRAFFIC AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. IN ORDER TO MAINTAIN LOCAL AND DRIVEWAY ACCESS, THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE, TYPE "A" OR "B" IN ACCORDANCE WITH ODOT ITEM 410 LIMESTONE OR GRAVEL. NO SEPARATE PAYMENT WILL BE MADE FOR PROVIDING TRAFFIC COMPACTED SURFACES OR OTHER TEMPORARY ROADWAYS. ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

18. TREE PROTECTION

TREE REMOVAL WILL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AS SHOWN ON THE PLANS. NO TREE REMOVAL WILL BE PERMITTED OUTSIDE THE RIGHT-OF-WAY WITHOUT PERMISSION OF THE ENGINEER. TREES WHICH ARE NOT REMOVED WILL BE PROTECTED BY ENSURING THAT TREES TO BE REMOVED ARE FELLED SO AS NOT TO INJURE THOSE REMAINING. THE CONTRACTOR SHALL USE SPECIAL CARE AND THE NECESSARY PRECAUTIONS AND METHODS TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEMS WHICH ARE NOT CALLED FOR REMOVAL.

19. DUST CONTROL

THE CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE, TO MINIMIZE DUST GENERATED ON THE CONSTRUCTION SITE AND TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO THE CONSTRUCTION SITE. THE COST FOR SAID WORK SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

20. STORM SEWER:

ALL CIRCULAR STORM SEWER SHALL BE REINFORCED CONCRETE PIPE C-76, CLASS IV, WITH JOINTS MEETING THE REQUIREMENTS OF ASTM C-443 OR PVC SDR 35 WITH JOINTS MEETING THE REQUIREMENTS OF ASTM D-3212

21. TRENCH PROTECTION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ANY CAVING OR SETTLING OF EXCAVATION OR TRENCH WALLS WHICH COULD ENDANGER THE SAFETY OF ANY PERSON ENGAGED IN THE WORK, OR TO DIMINISH THE TRENCH WIDTH NECESSARY FOR THE PROPER CONSTRUCTION OF THE CONDUIT, OR OTHERWISE INJURE OR DELAY THE WORK. THE TYPE AND AMOUNT OF SUCH PROTECTION, SUCH AS TRENCH BOXES, SHEETING, SHORING, OR BRACING SHALL BE CONSISTENT WITH THE DEPTH AND WIDTH OF EXCAVATION, THE COMPOSITION AND WATER CONTENT OF THE SOIL, THE VIBRATION FROM EQUIPMENT AND THE SOIL PLACEMENT, AND SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.

22. DRIVE APRONS

ALL DISTURBED DRIVE APRONS WITHIN THE PROJECT WORK LIMITS SHALL BE REPLACED IN KIND. EXISTING DRIVE TYPES MAY BE INDICATED ON THE PLANS.

23. EXISTING CONCRETE WALK

THE EXISTING CONCRETE WALK WITHIN THE PROJECT WORK LIMITS SHALL BE PROTECTED. DAMAGED WALK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

24. MANHOLES ADJUSTED TO GRADE

ALL MANHOLES, WHERE NOTED ON PLANS OR REQUIRED BY THE PROPOSED IMPROVEMENTS, SHALL BE ADJUSTED TO THE PROPOSED GRADE WITH NEW CASTINGS IN ACCORDANCE WITH ODOT ITEM 604. THE NEW CASTING SHALL BE AN E.J.I.W. 1710 WITH SOLID COVER OR APPROVED EQUIVALENT.

25. EXISTING ITEMS OUTSIDE RIGHT-OF-WAY

THERE ARE NUMEROUS EXISTING FENCES, TREES, BUSHES, LANDSCAPE WALLS AND OTHER ITEMS ON PRIVATE PROPERTY JUST OUTSIDE THE RIGHT-OF-WAY. THE CONTRACTOR SHALL TAKE THE NECESSARY ACTIONS TO ENSURE THESE EXISTING ITEMS ARE NOT DISTURBED OR DAMAGED. IF ANY DAMAGE DOES OCCUR THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF THE ITEMS AT NO ADDITIONAL COST.

26. TEMPORARY PAVEMENT

THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS AND ROAD SURFACES WITHIN THE LINES OF EXCAVATION IN ACCORDANCE WITH THE PLANS, TYPICAL SECTIONS AND DETAILS. AFTER THE PAVEMENT HAS BEEN REMOVED AND PIPE HAS BEEN LAID, ALL APPURTENANT WORK CONSTRUCTED AND BACKFILL COMPLETED, THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN, WHEREVER THE PAVEMENT OF ROAD SURFACE HAS BEEN REMOVED OR DAMAGED, A TEMPORARY PAVEMENT IN THE PAVED PORTION OF STREETS AND DRIVEWAYS SO AS TO PROVIDE A SAFE AND PASSABLE ROADWAY UNTIL SUCH TIME AS THE FINAL PAVEMENT IS COMPLETED. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES EXCEPT BRIEFLY DURING WORKING HOURS WHEN CONSTRUCTION ACTIVITIES PROHIBIT.

27. PROTECTION AGAINST VANDALISM

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND / OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST.

28. EXCESS EXCAVATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE OWNER IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

29. LAWN RESTORATION INCLUDING LINEAL GRADING & TOPSOIL

ALL GRASS AREAS TO BE RESTORED WITHIN WORK LIMITS AND AREAS OUTSIDE OF THE WORK LIMITS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATION SECTION CT 02901.

30. GRASS RESTORATION

PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TREELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. COST OF INVENTORY AND RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR LAWN RESTORATION. RESTORATION OF TREELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR. THE LANDSCAPE CONTRACTOR MUST BE EXPERIENCED IN COMMERCIAL INSTALLATIONS AND PROVIDE REFERENCES AND OTHER DETAILED INFORMATION TO ENABLE THE OWNER TO JUDGE HIS EXPERIENCE AND CAPABILITY TO PERFORM THE WORK.

31. MAILBOX REPLACEMENT

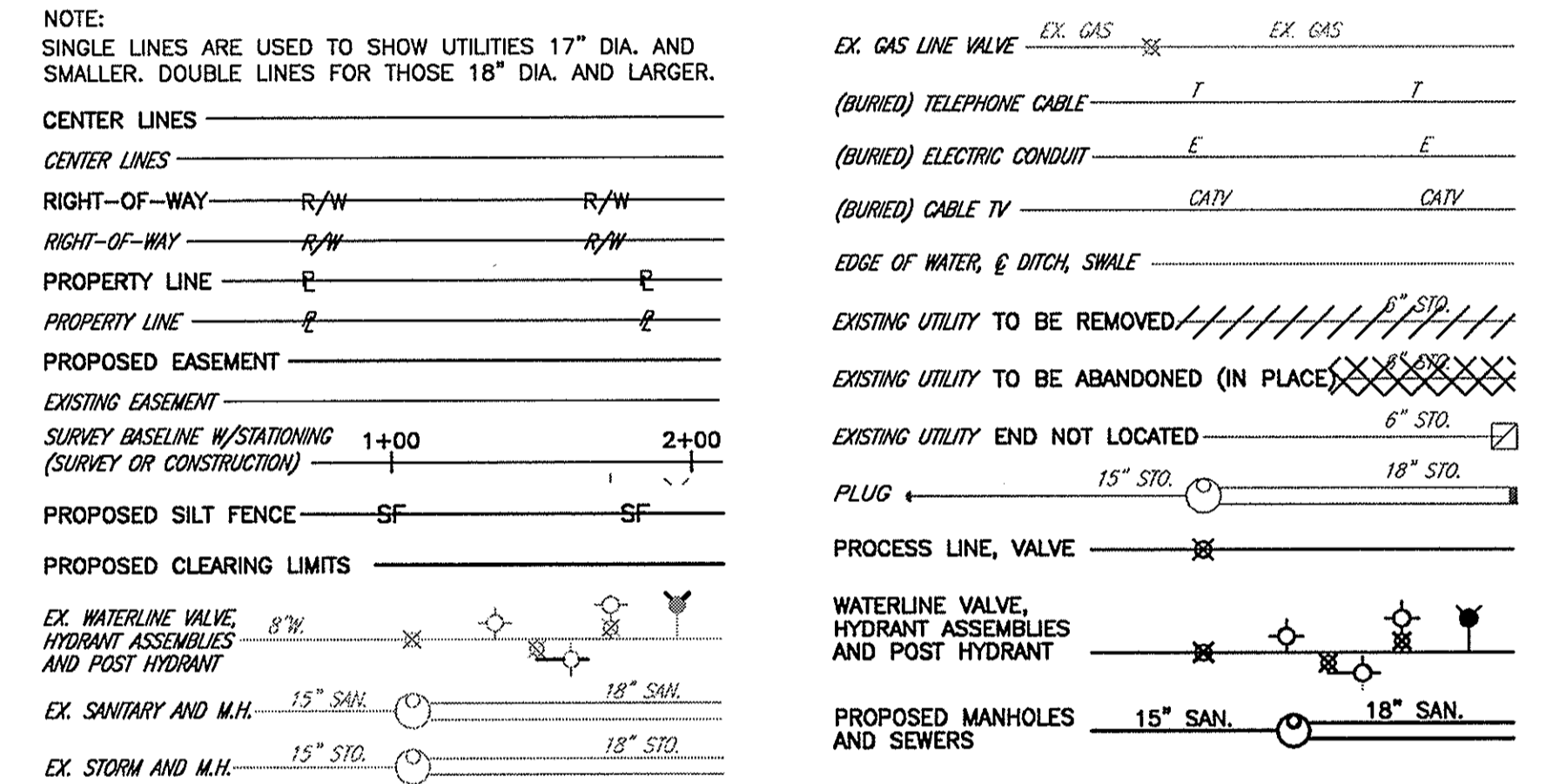
PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL TEMPORARILY RELOCATE MAILBOXES THAT WILL NOT BE USEABLE BY THE POSTMASTER DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL A TEMPORARY MAILBOX AND/OR SUPPORT SYSTEM IN A SUITABLE LOCATION AND SUBSEQUENTLY REMOVE AND DISPOSE OF THE TEMPORARY MAILBOX AND/OR SUPPORT SYSTEM AND RESTORE THE PERMANENT MAILBOX WHEN CONSTRUCTION IS COMPLETE AT NO COST TO OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POSTMASTER AND CITY REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

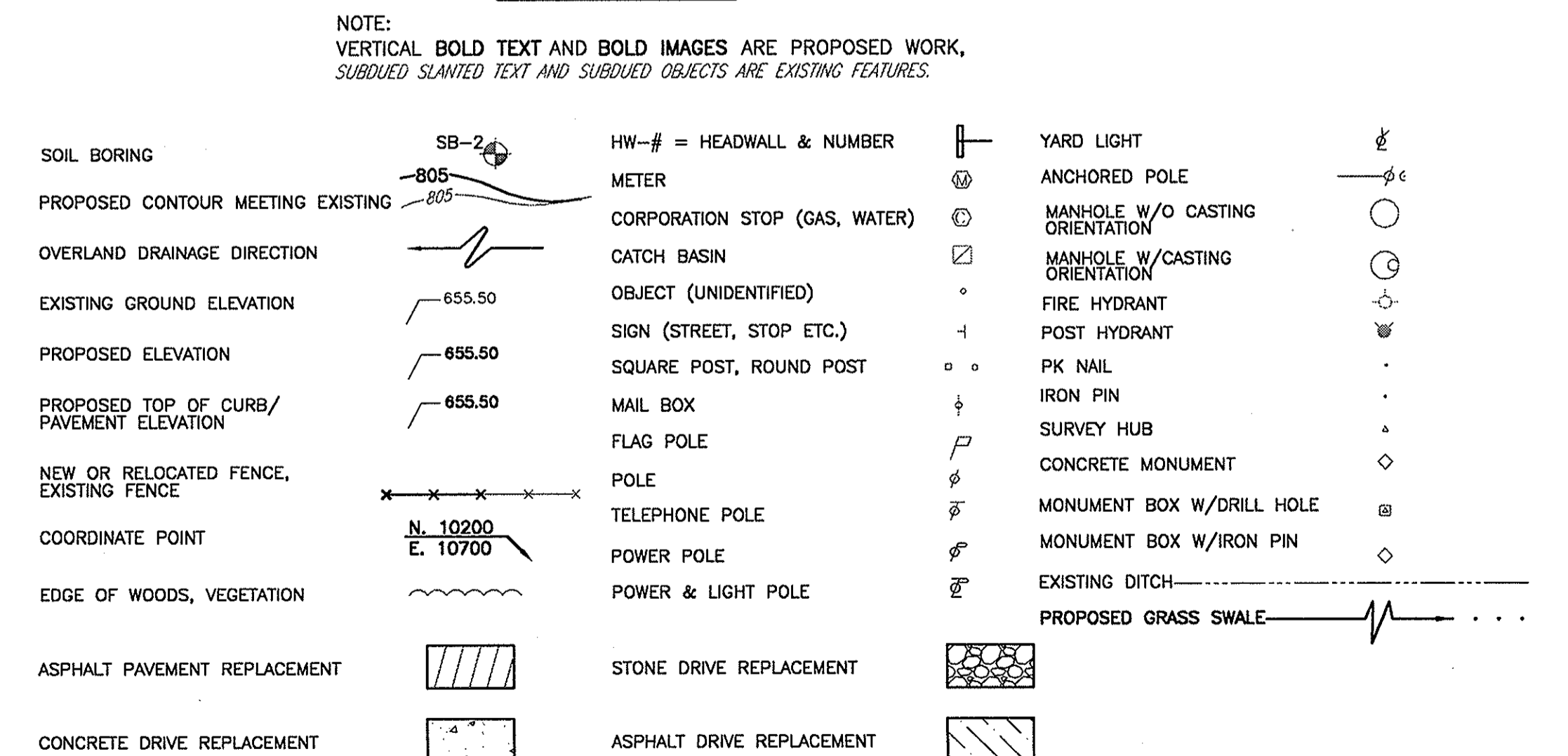
32. ALTERNATE BID ITEMS

THE BID SET INCLUDES SEVERAL ITEMS THAT WILL BE BID AS AN ALTERNATE. SHEET 7A AND ITEMS MARKED AS "ALTERNATE" IN THE PLAN VIEW OF THE REMAINING PLAN AND PROFILE SHEETS SHALL BE BID AS AN ALTERNATE. ALTERNATE BID ITEMS ARE LISTED SEPARATELY IN THE BIDDING FORMS.

LINE LEGEND



SITE LEGEND



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REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE

STORM SEWER IMPROVEMENTS

CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010

DRAWN BY: LML

CHECKED BY: TRL

APPROVED BY: TRL

F.B. No. 1221 Pg. 110-158

GENERAL NOTES

SCALE

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VERT.

CONTRACT No.

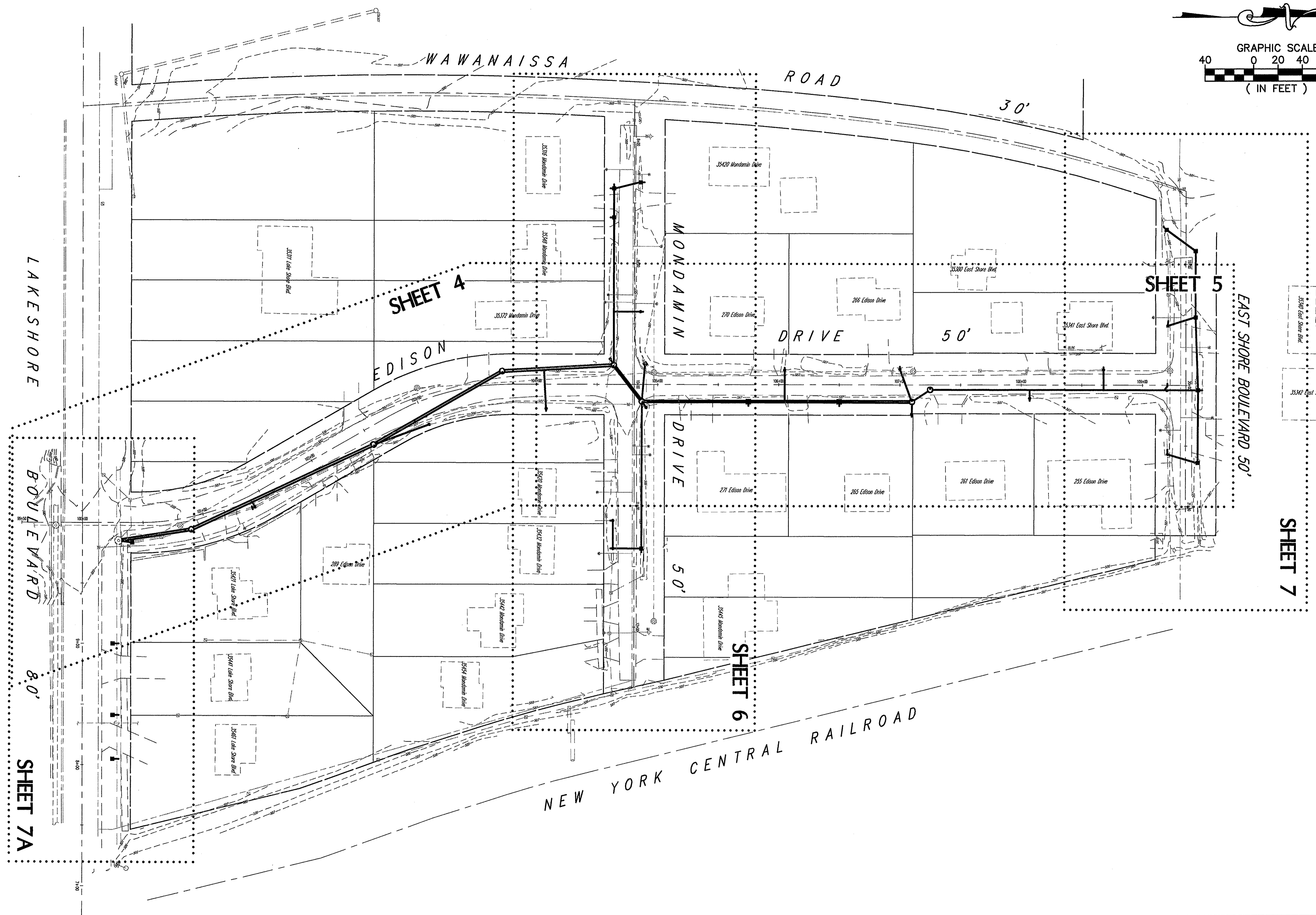
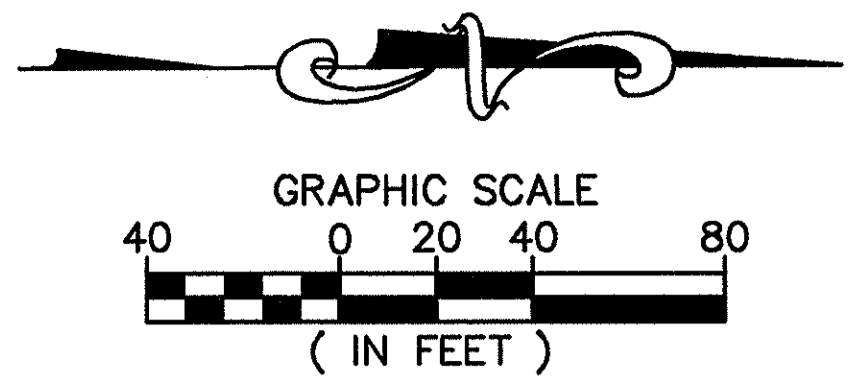
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SHEET NO.

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OF

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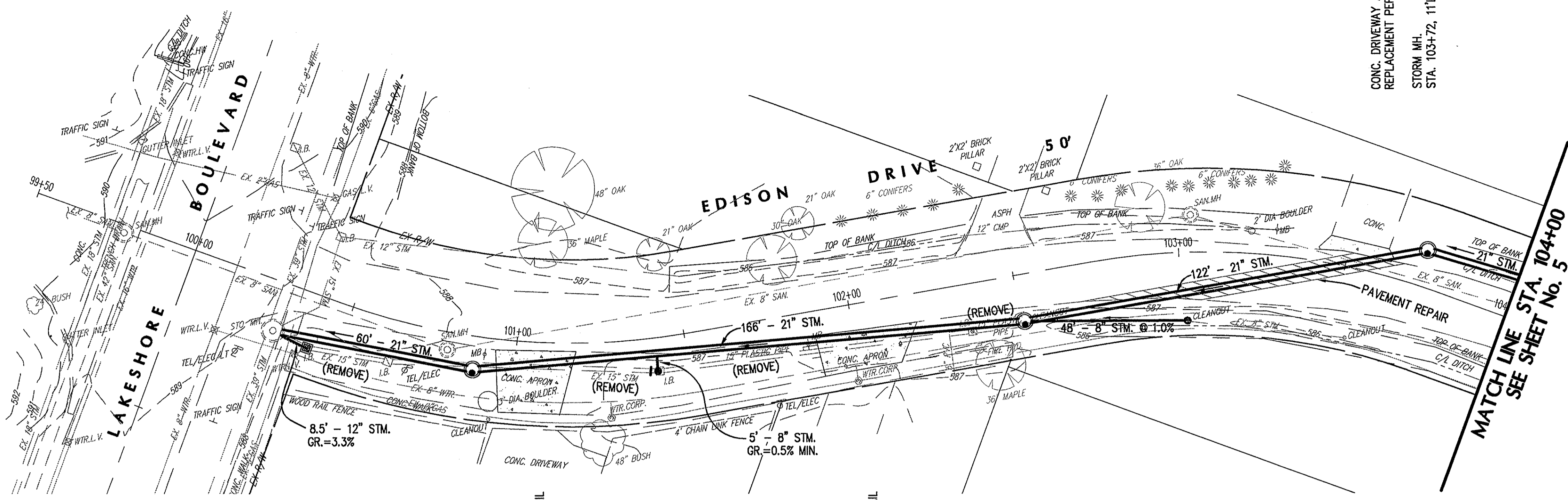
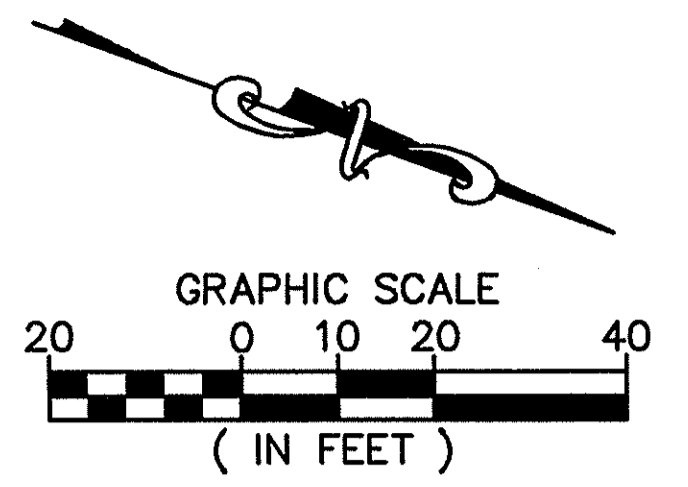
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EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE:	JULY 2010
DRAWN BY:	LML
CHECKED BY:	TRL
APPROVED BY:	TRL
F.B. No. 1221	Pg. 110-116

MASTER PLAN

SCALE	
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CONTRACT No.	
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SHEET NO.	OF
3	11



LEGEND:
 ASPHALT PAVEMENT REPLACEMENT
 CONCRETE DRIVE REPLACEMENT

CATCH BASIN CB 2-2B
 STA. 100+41, 16.4 RT.
 RIM 587.2
 12" INV. S 582.95

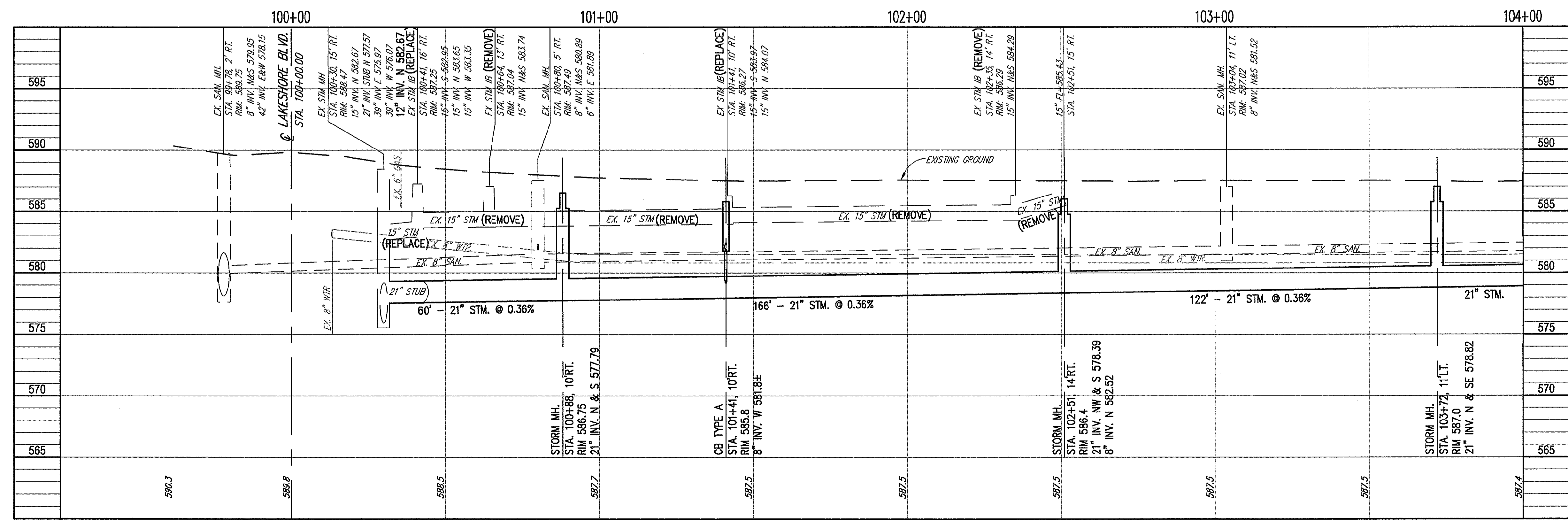
STORM MH.
 STA. 100+88, 10 RT.
 CONC. DRIVEWAY APRON
 REPLACEMENT PER DETAIL

CB TYPE A
 STA. 101+41, 10 RT.
 RIM 586.2
 12" INV. E 583.7

CONC. DRIVEWAY APRON
 REPLACEMENT PER DETAIL

STORM MH.
 STA. 102+51, 14 RT.

CB TYPE A
 STA. 103+02, 20.3 RT.
 RIM 585.5
 8" INV. S 583.0
 (CONNECT EXIST. PIPES)



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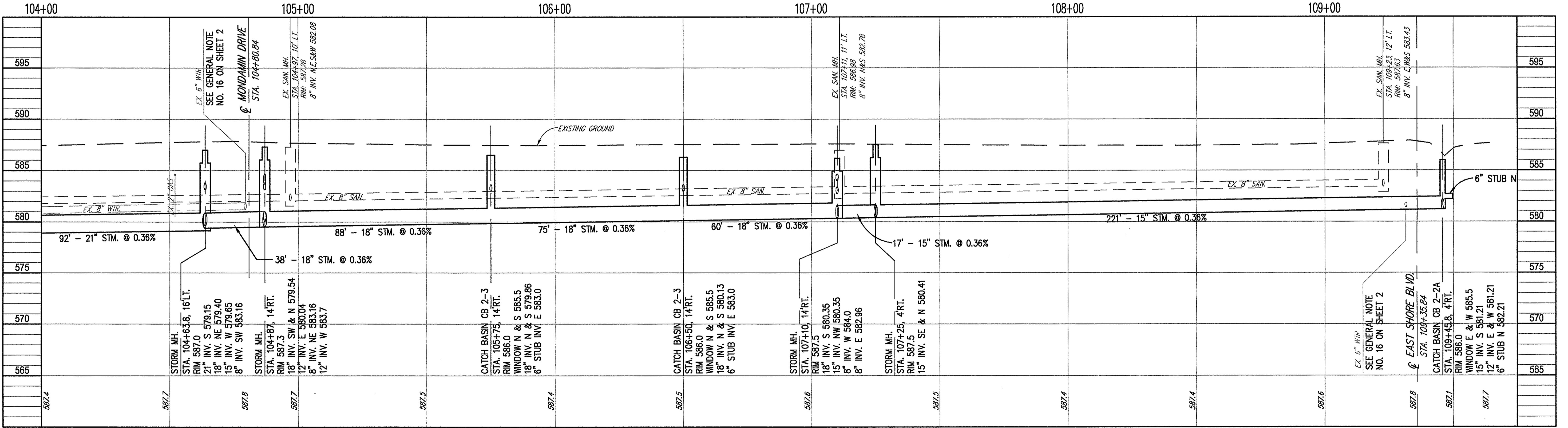
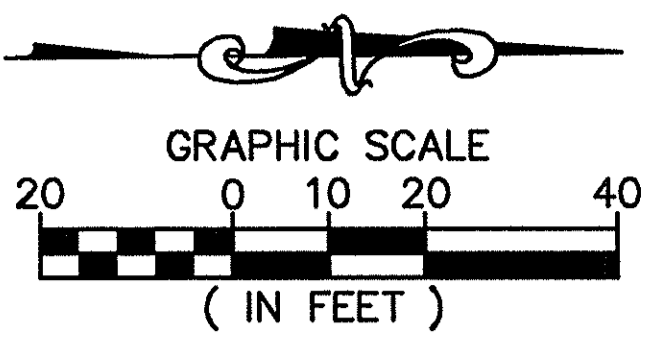
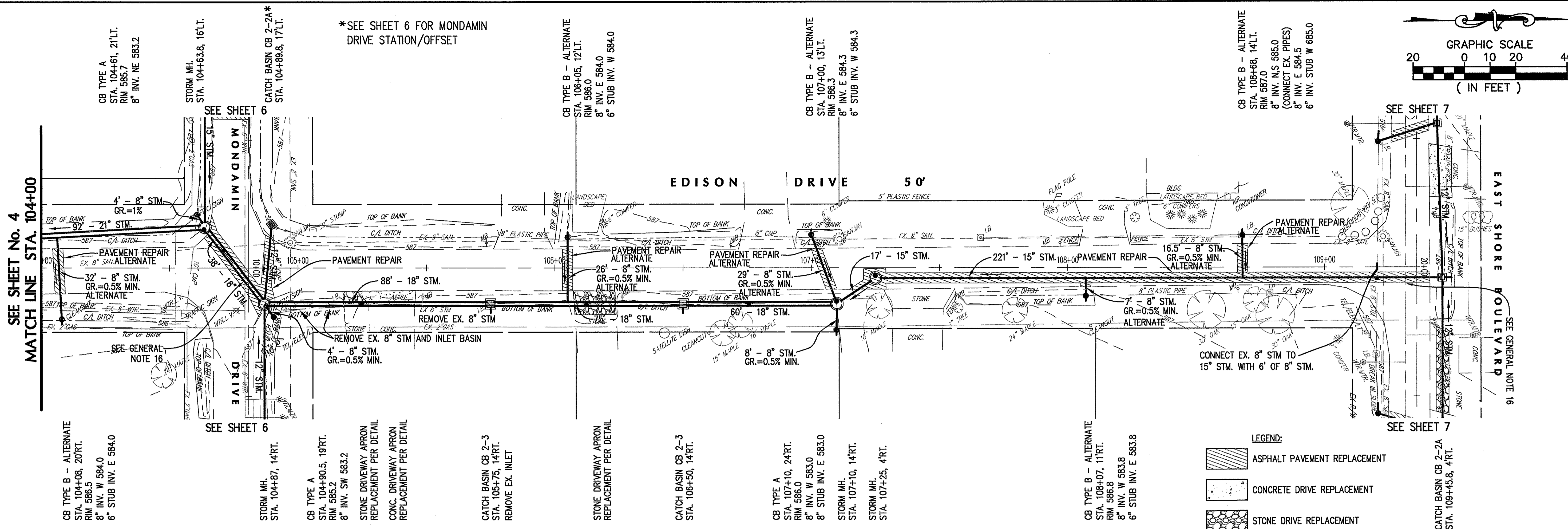
EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
 CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
 DRAWN BY: LML
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PLAN AND PROFILE
EDISON DRIVE
STA. 100+00 TO STA. 104+00

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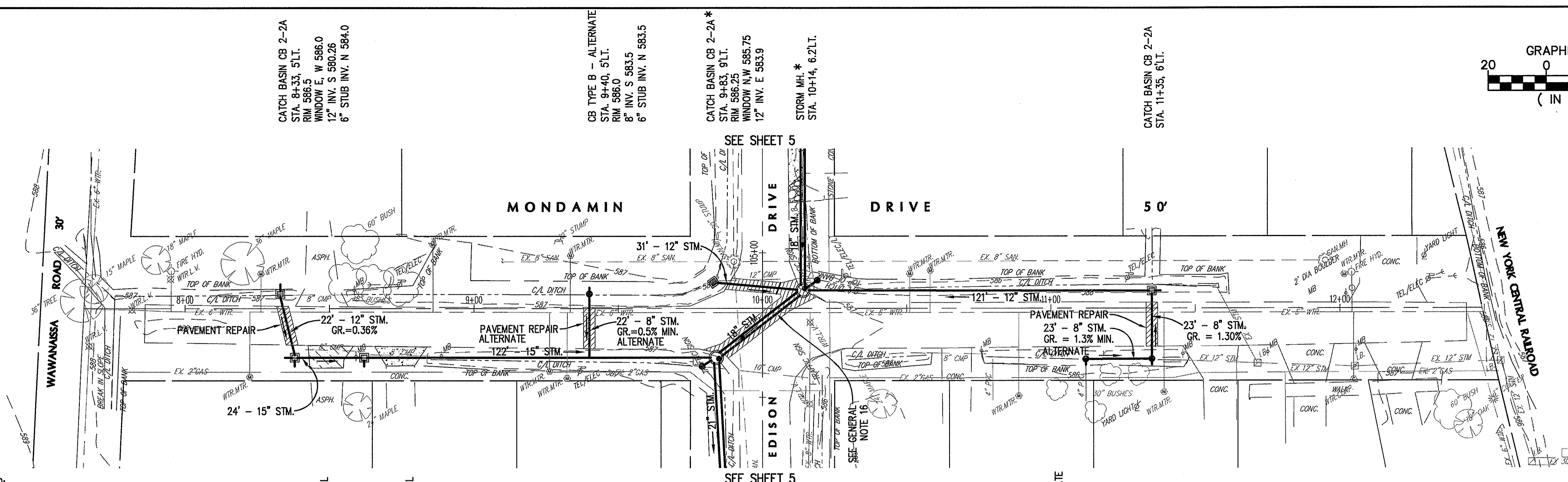
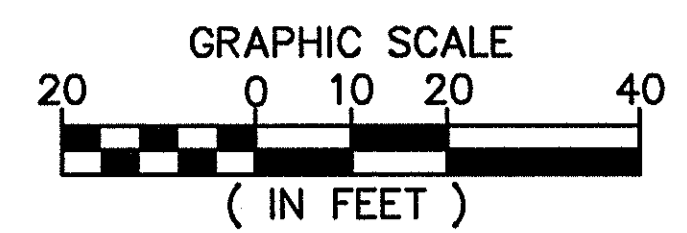
REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
 CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
 DRAWN BY: LML
 CHECKED BY: TRL
 APPROVED BY: TRL
 F.B. No. 1221 Pg. 110-156

PLAN AND PROFILE
EDISON DRIVE
STA. 104+00 TO STA. 109+00

SCALE	
HOR.	AS NOTED
VERT.	
CONTRACT No.	
10088	
SHEET NO.	OF
5	11



- LEGEND:**
- ASPHALT PAVEMENT REPLACEMENT
 - CONCRETE DRIVE REPLACEMENT
 - STONE DRIVE REPLACEMENT
 - ASPHALT DRIVE REPLACEMENT

CATCH BASIN CB 2-2A
STA. 8+38, 17RT.
ASPH. DRIVEWAY APRON
REPLACEMENT PER DETAIL

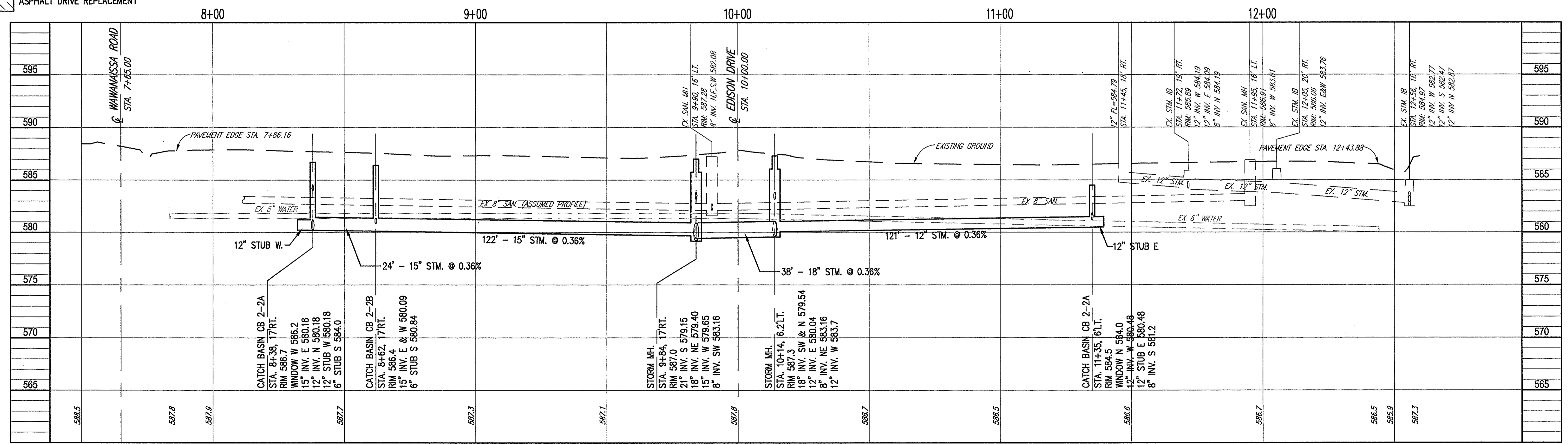
CATCH BASIN CB 2-2B
STA. 8+62, 17RT.
CONC. DRIVEWAY APRON
REPLACEMENT PER DETAIL

STORM MH.*
STA. 9+84, 17RT.

CB TYPE B - ALTERNATE
STA. 11+12, 17.5RT.
RIM 584.8
8" INV. E 581.9
6" INV. S 582.8
(CONNECT EX. PIPE)

CB TYPE A
STA. 11+35, 17.5RT.
RIM 584.5
8" INV. N. W 581.5
6" STUB INV. S 582.5

*SEE SHEET 5 FOR EDISON
DRIVE STATION/OFFSET



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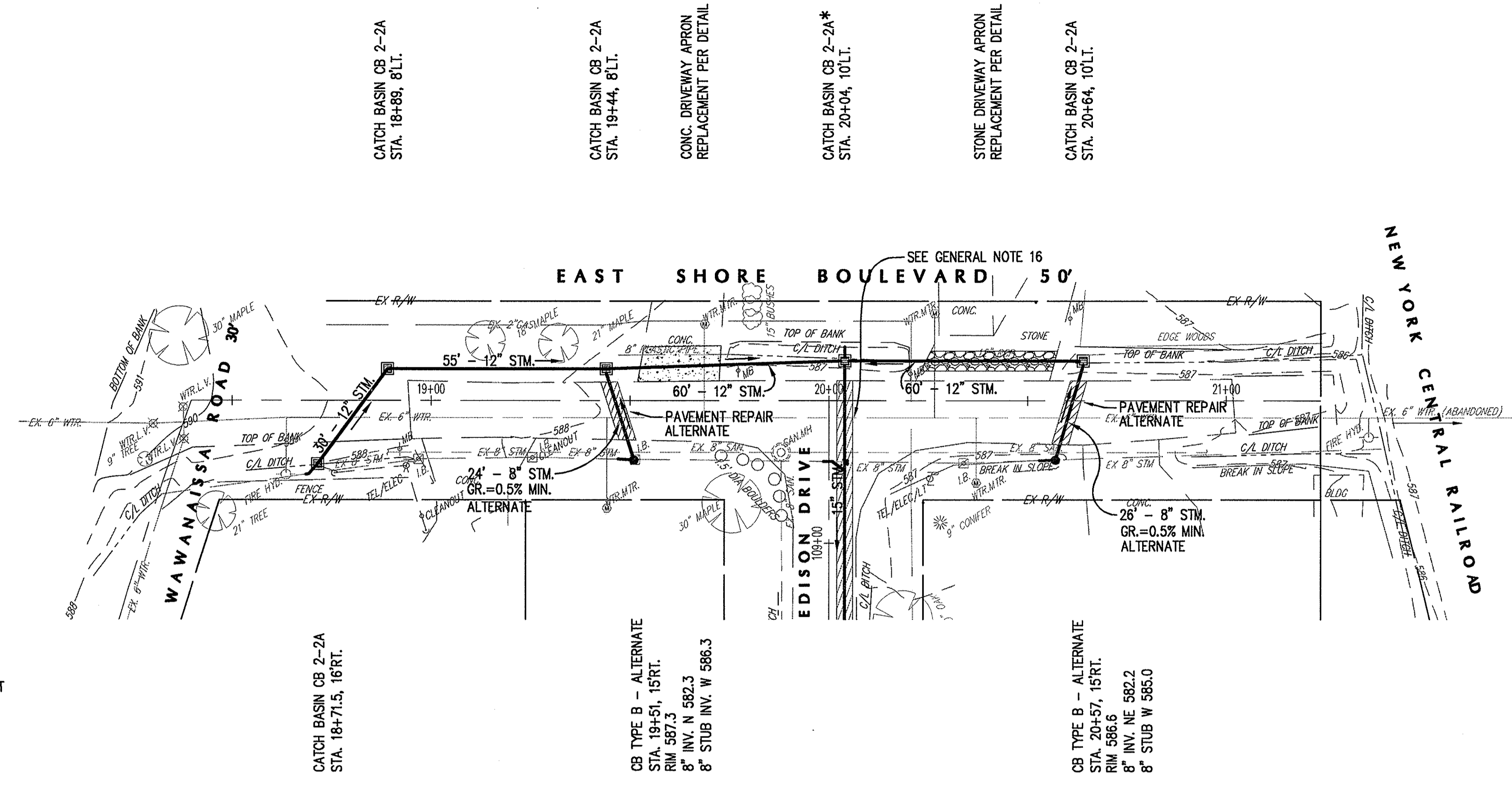
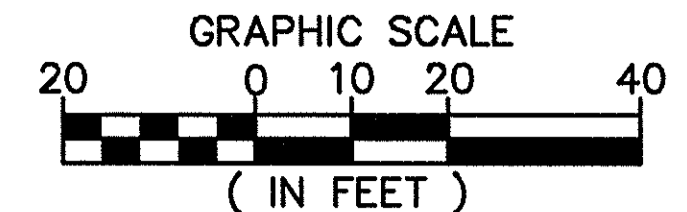
REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
DRAWN BY: LML
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F.B. No. 1221 Pg. 110-186

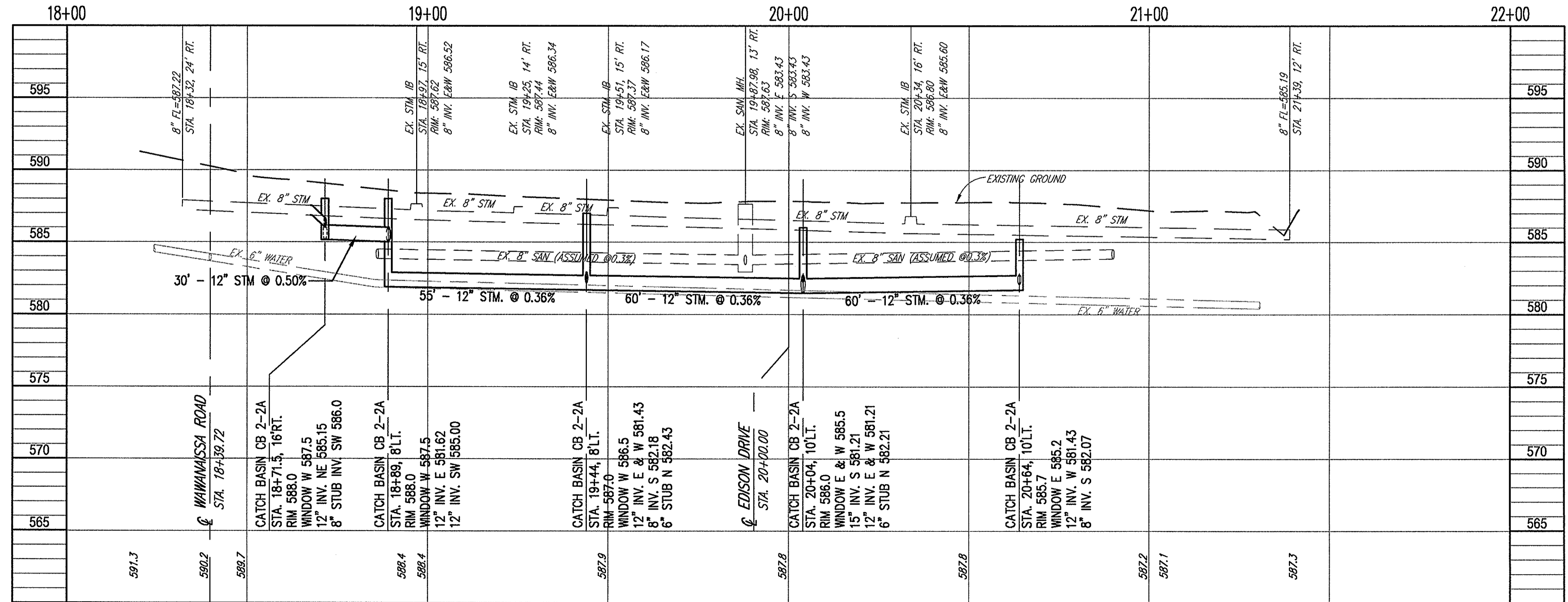
PLAN AND PROFILE
MONDAMIN DRIVE

SCALE HOR. AS NOTED VERT.	
CONTRACT No. 10088	
SHEET NO. 6	OF 11



- LEGEND:**
- ASPHALT PAVEMENT REPLACEMENT
 - CONCRETE DRIVE REPLACEMENT
 - STONE DRIVE REPLACEMENT

*SEE SHEET 5 FOR EDISON DRIVE STATION/OFFSET



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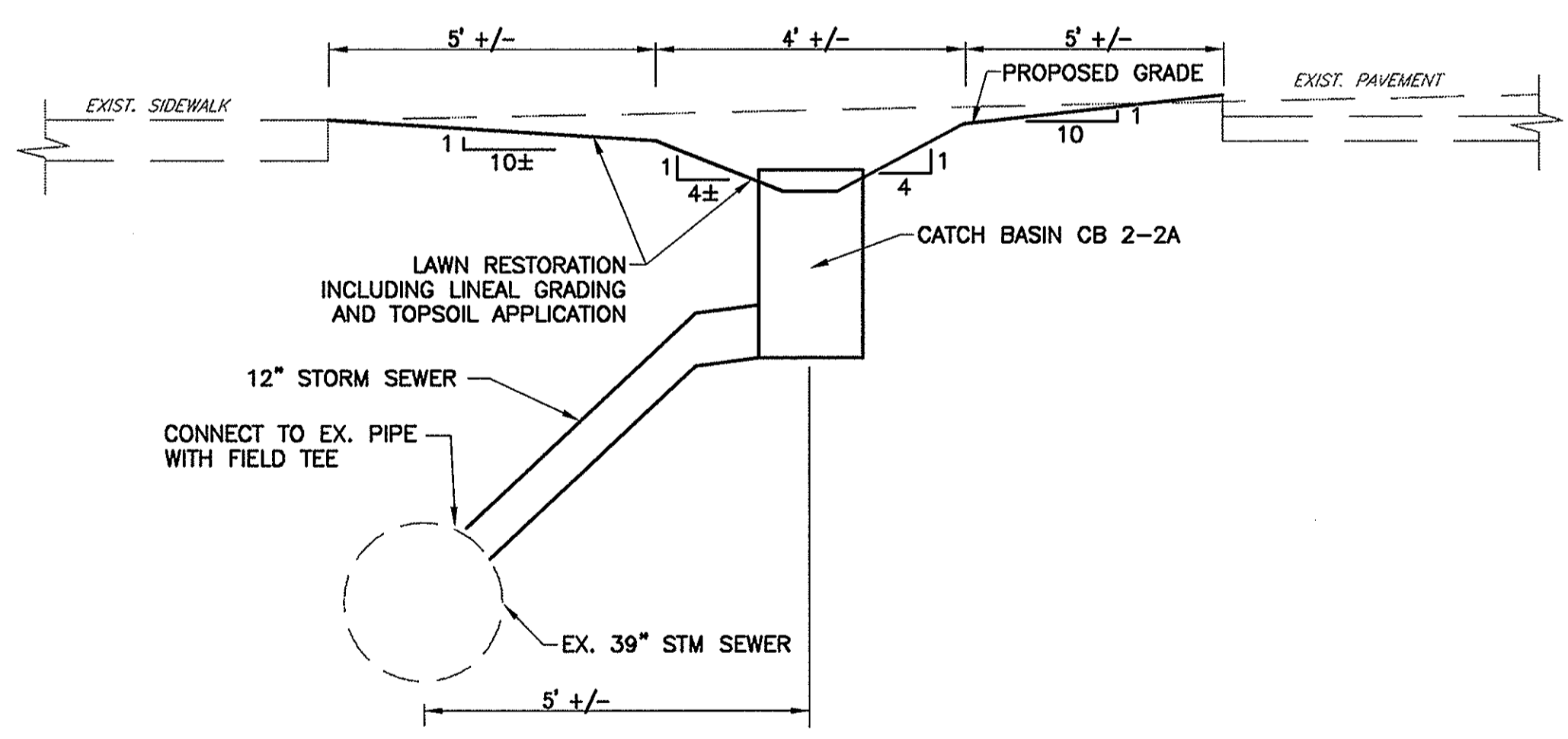
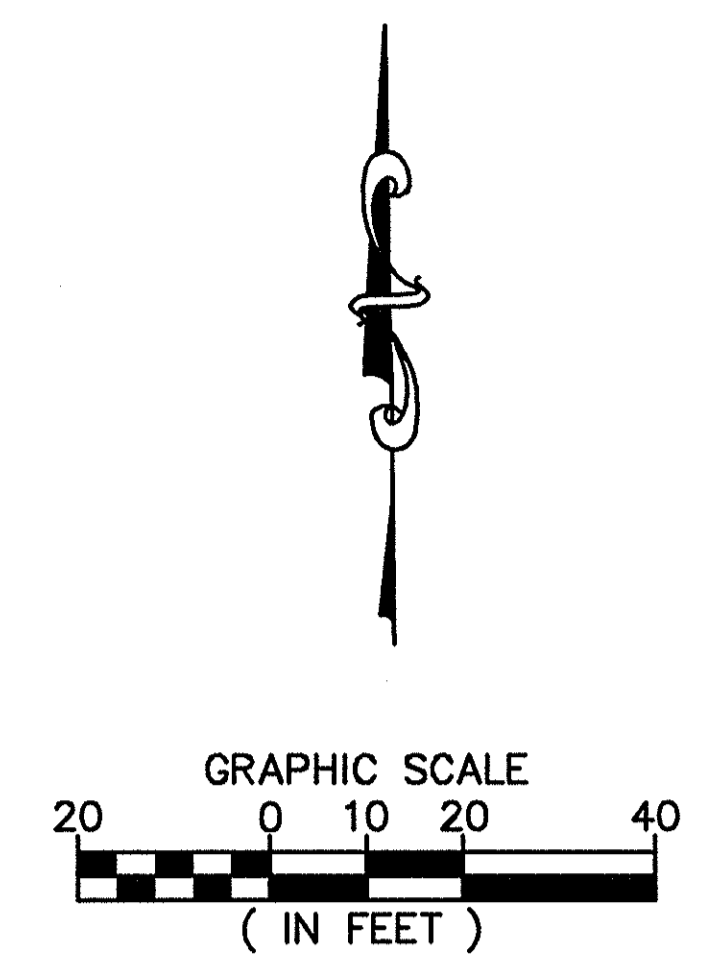
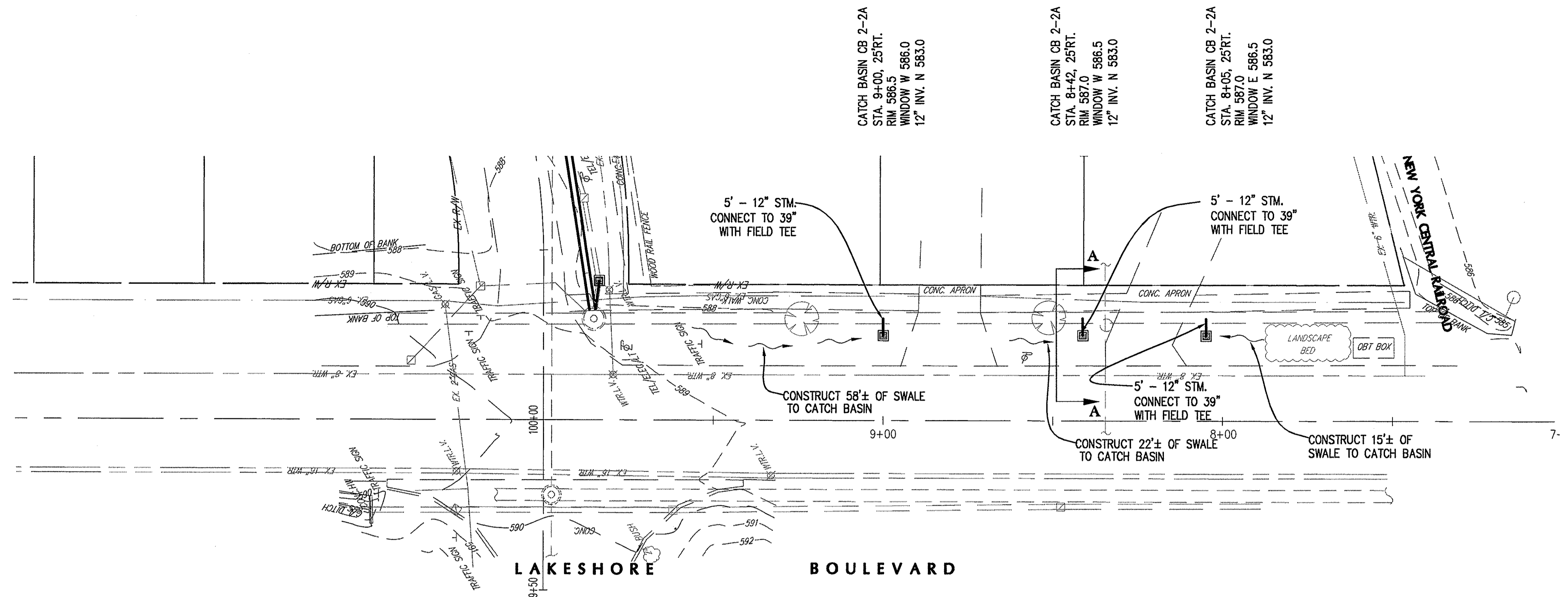
REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
DRAWN BY: LML
CHECKED BY: TRL
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F.B. No. 1221 Pg. 110-156

PLAN AND PROFILE
EAST SHORE BOULEVARD

SCALE	
HOR.	AS NOTED
VERT.	
CONTRACT No.	
10088	
SHEET NO.	OF
7	11



SECTION A-A
NO SCALE

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EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

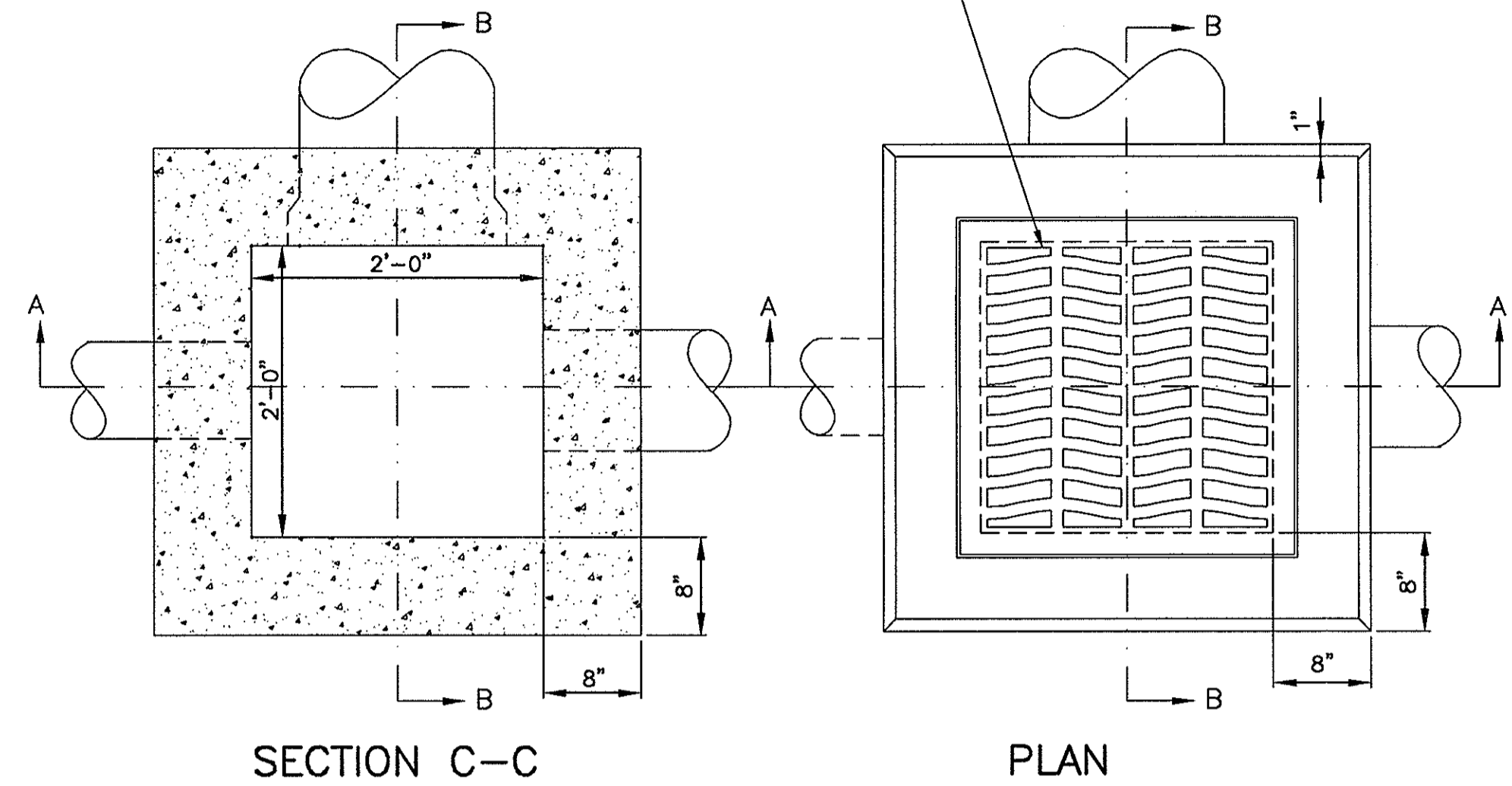
DATE:	JULY 2010
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CHECKED BY:	TRL
APPROVED BY:	TRL
F.B. No. 1221	Pg. 110-156

LAKESHORE BOULEVARD
DRAINAGE IMPROVEMENTS
ALTERNATE BID

SCALE	
HOR.	AS NOTED
VERT.	
CONTRACT No.	
10088	
SHEET NO.	OF
7A	11

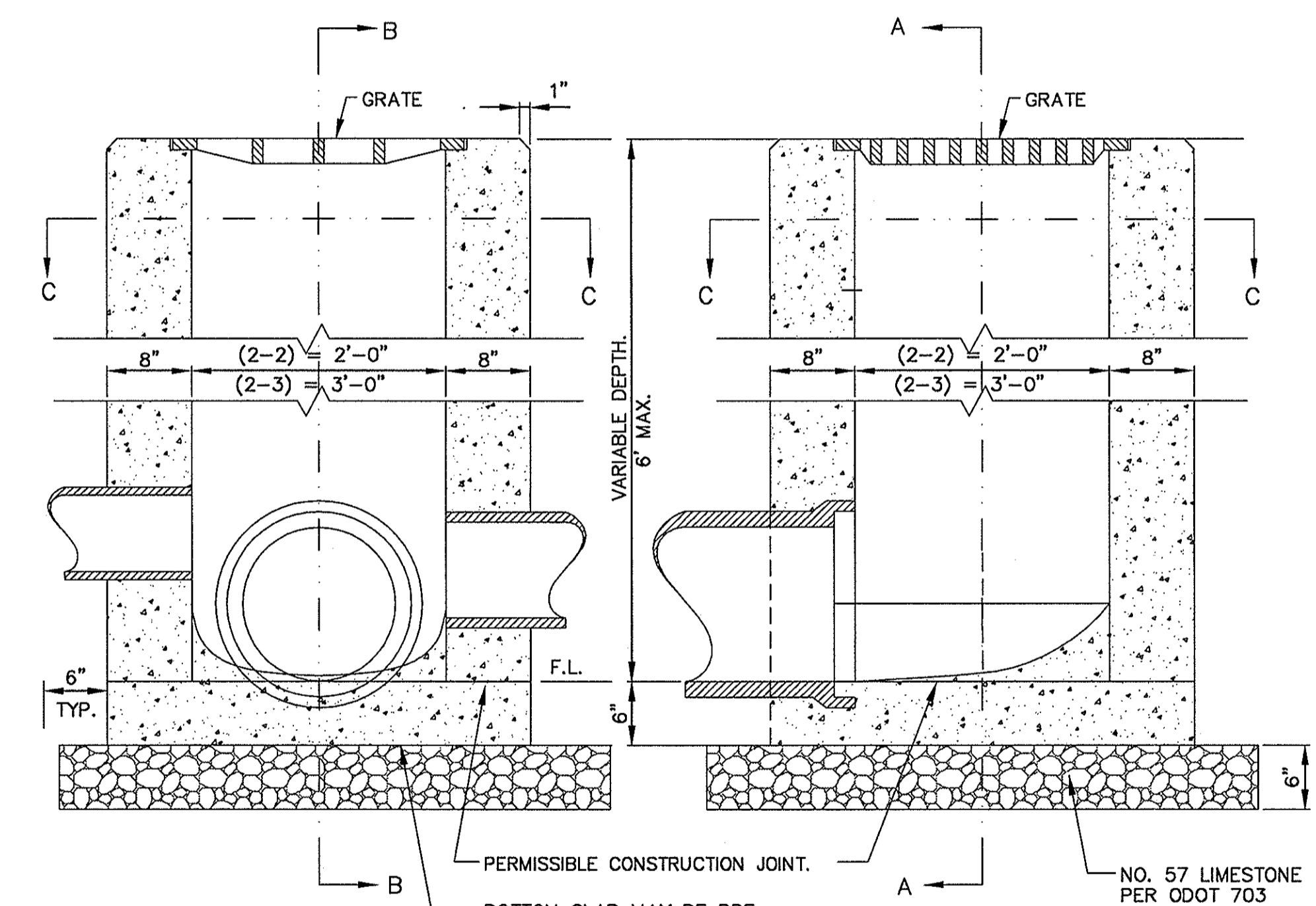
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CASTING TYPE:
1. NON-PAVED AREA: EAST JORDAN IRON WORKS 5110-TYPE M3 GRATE W/ CONCRETE FRAME.



SECTION C-C

PLAN

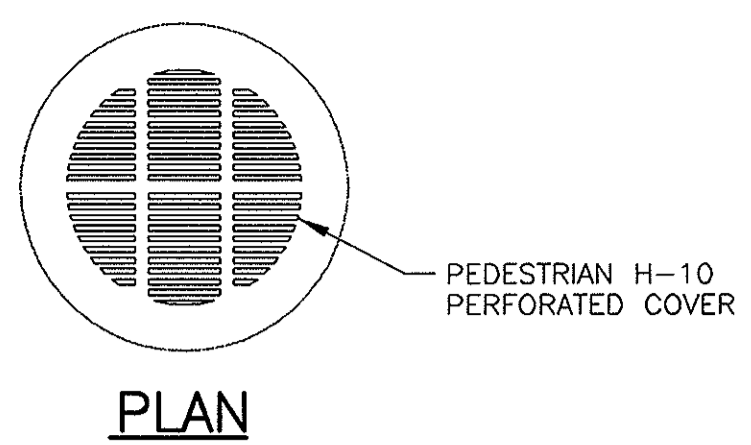


SECTION A-A

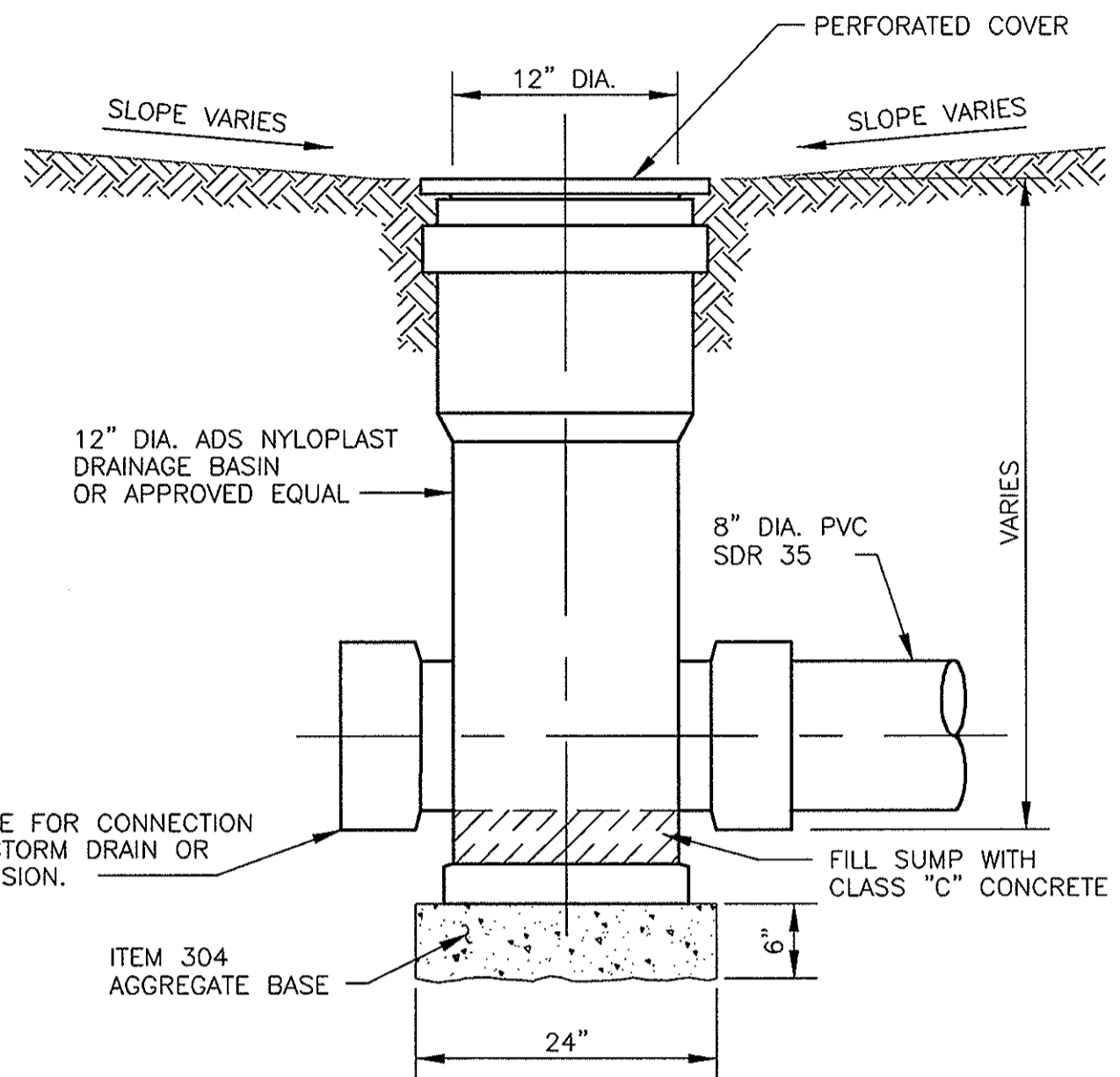
SECTION B-B

- NOTES:
1. ALL WORK SHALL CONFORM TO ODOT ITEM 604.
 2. ALL BRICK USED SHALL BE CLAY OR SHALE BRICK CONFORMING TO ODOT ITEM 704.01 (ASTM C32) UNLESS APPROVED IN WRITING BY THE ENGINEER.
 3. IF PRECAST UNITS ARE USED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRECAST UNITS SHALL CONFORM TO ODOT ITEM 708.13.
 4. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499, CLASS "C" (4000 PSI.) NO SLAG.
 5. THE ENTIRE EXCAVATED AREA AROUND THE BASIN SHALL BE BACKFILLED WITH NO. 57 LIMESTONE COMPACTED IN 8" LIFTS.
 6. PRECAST UNITS SHALL BE SET ON A 6" BASE OF NO. 57 LIMESTONE PER ODOT ITEM 703.
 7. TOP SLAB FOR ODOT TYPE 2-3 CATCH BASIN IS NOT SHOWN.
 8. TYPE 2-2-A SHALL HAVE 6" WINDOW PER PLANS.

CATCH BASIN (ODOT TYPE 2-2-A & 2-2-B)
CATCH BASIN (ODOT TYPE 2-3)
NO SCALE

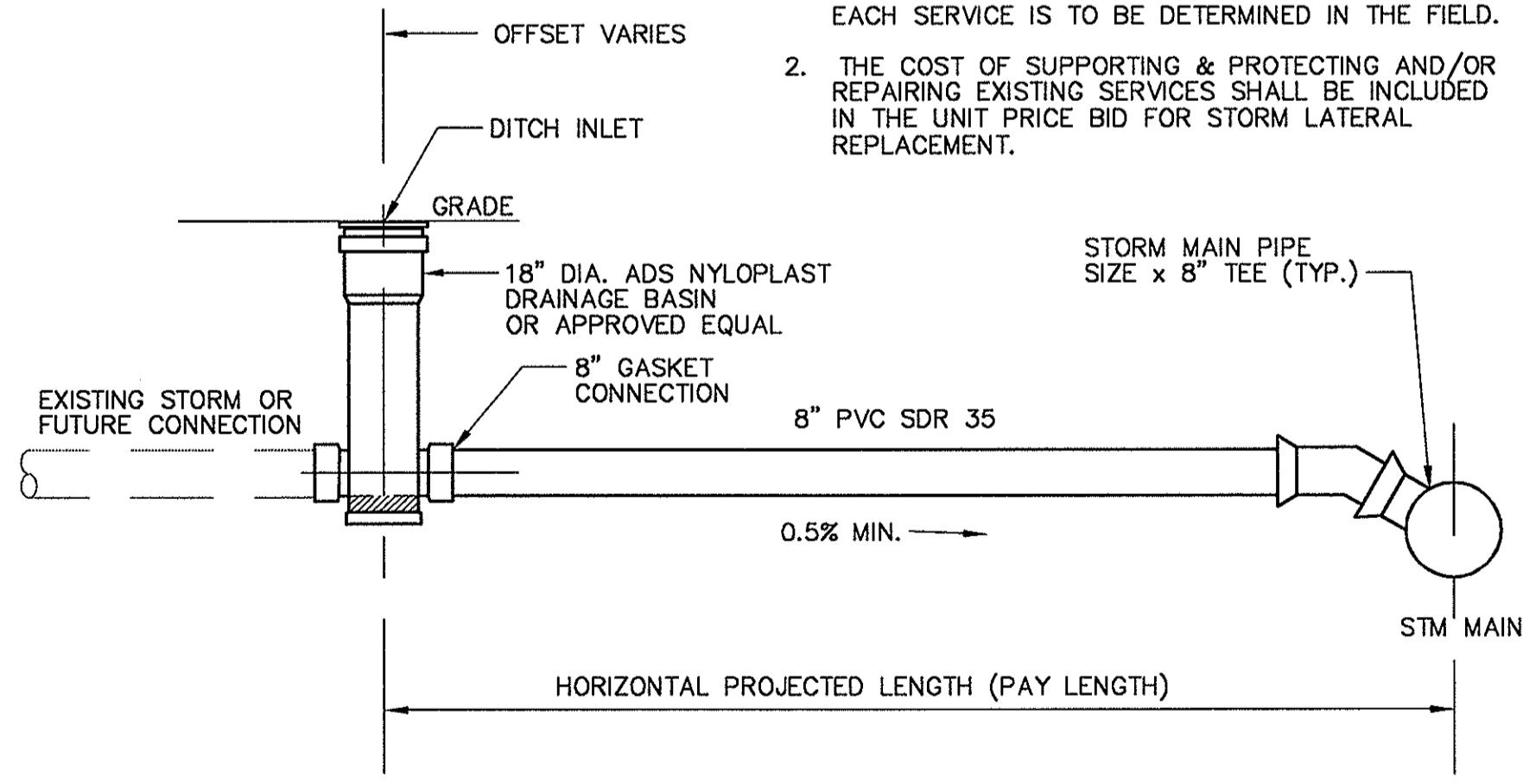


PLAN

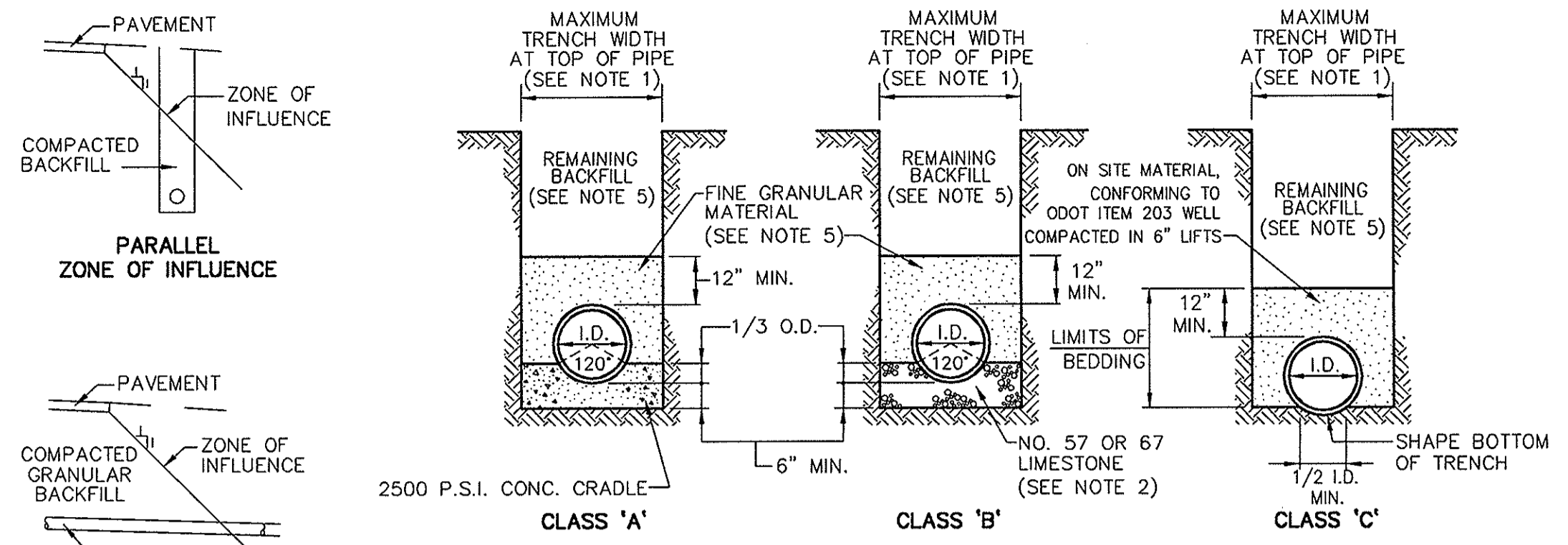


SECTION
CATCH BASIN TYPE A
CATCH BASIN TYPE B (ALTERNATE BID ITEM)
NO SCALE

- NOTES:
1. THE STORM LATERAL REPLACEMENT DETAIL IS DIAGRAMATIC ONLY. THE ACTUAL LOCATION OF EACH SERVICE IS TO BE DETERMINED IN THE FIELD.
 2. THE COST OF SUPPORTING & PROTECTING AND/OR REPAIRING EXISTING SERVICES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STORM LATERAL REPLACEMENT.

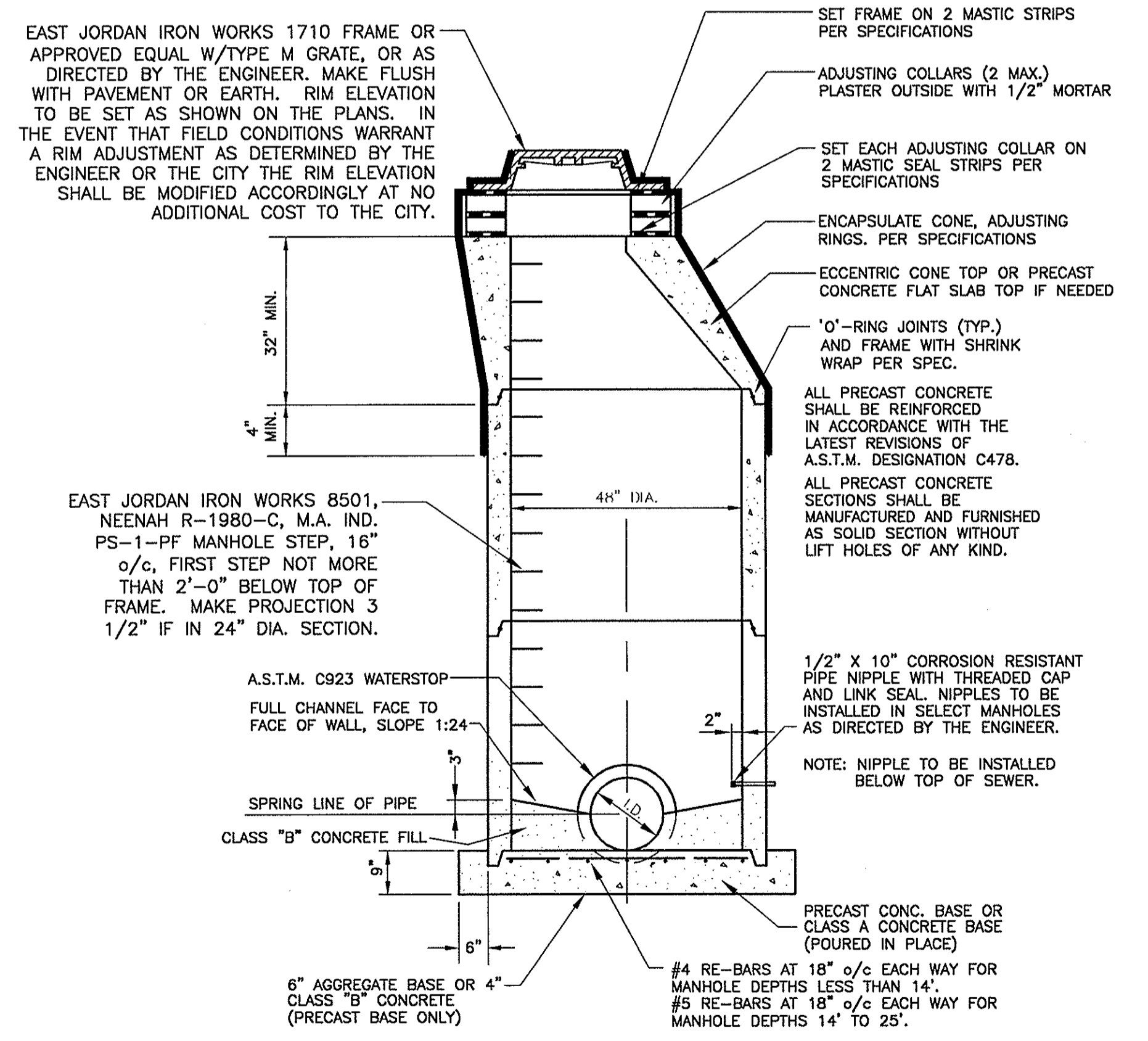


STORM LATERAL CONNECTION
NO SCALE



- NOTES:
1. MAXIMUM TRENCH WIDTH AT TOP OF PIPE SHALL BE O.D.+ 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+ 30" FOR PIPE LARGER THAN 24" I.D. TO 54" I.D. AND O.D.+ 48" FOR PIPE SIZES 60" AND OVER.
 2. PIPE BEDDING SHALL BE NO. 57 OR NO. 67 LIMESTONE.
 3. ALL BEDDING SHALL BE CLASS "B" UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. CLASS "A" BEDDING SHALL BE USED FOR ALL PIPE UNDER PAVED AREAS WITH LESS THAN 18" COVER TO PAVEMENT SUBGRADE.
 4. WATERLINE BEDDING SHALL BE CLASS "C".
 5. a) PIPE BACKFILL UNDER PAVEMENT, STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT AND STRUCTURES SHALL BE NO. 57 OR NO. 67 LIMESTONE TO 12" ABOVE TOP OF PIPE. REMAINING TRENCH BACKFILL UNDER PAVEMENT AND STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT AND STRUCTURES SHALL BE LIMESTONE TO TOP OF TRENCH. TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 100% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR (ASTM D698).
 - b) IN AREAS OUTSIDE STRUCTURES OR THE 1:1 ZONE OF INFLUENCE OF THE PAVEMENT, SELECT FRIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER MAY BE USED FOR D.I.P.; NO. 57 OR NO. 67 STONE SHALL BE USED FOR R.C.P., V.C.P. AND THERMOPLASTIC PIPE TO 12" ABOVE TOP OF PIPE. FOR REMAINDER OF TRENCH BACKFILL, SELECT FRIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER MAY BE USED.
 6. SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.
 7. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER PLAN OR AS DIRECTED BY THE ENGINEER.

TRENCH AND BEDDING DETAILS
NO SCALE



STANDARD TYPE "A" ECCENTRIC MANHOLE
(24" ID AND LESS)
NO SCALE

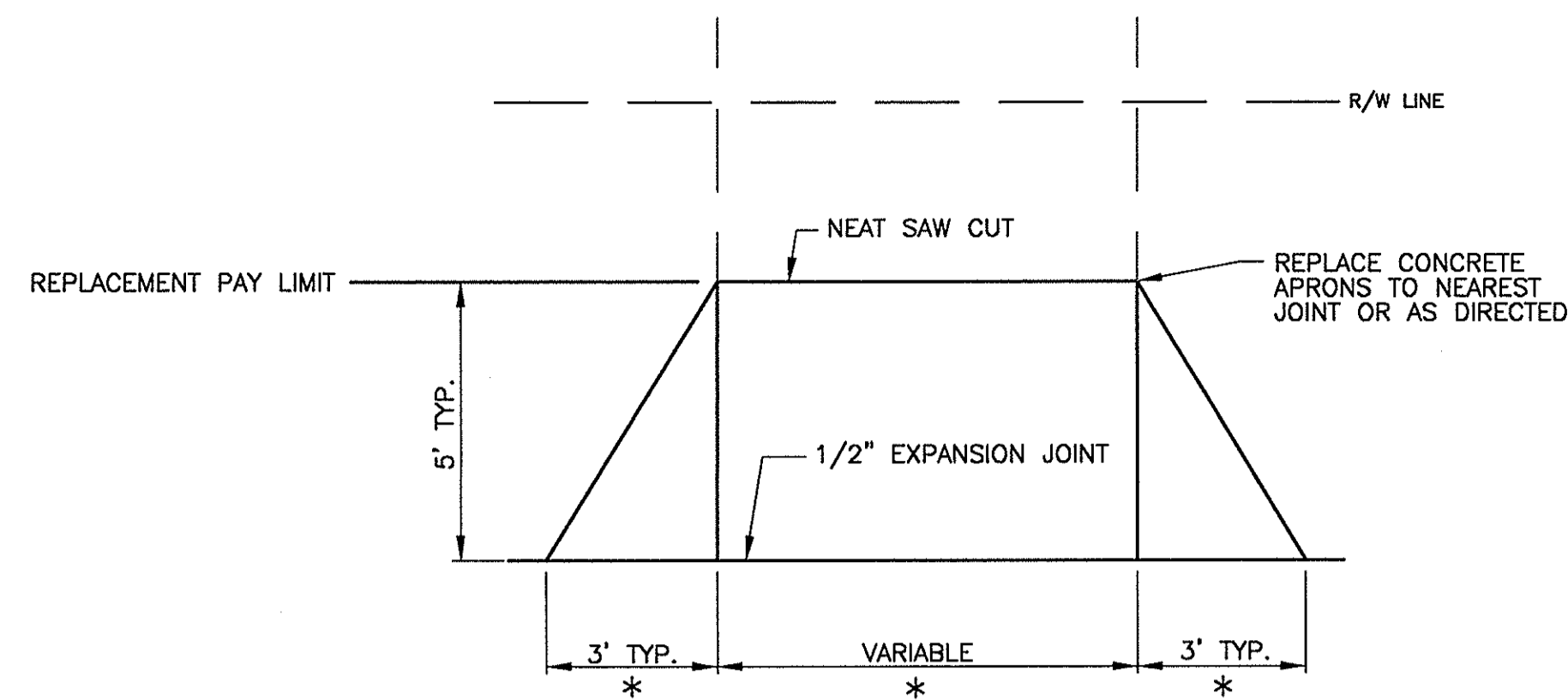
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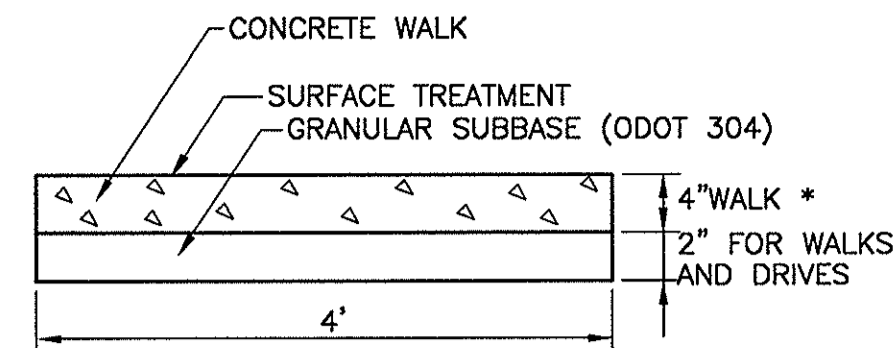
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STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

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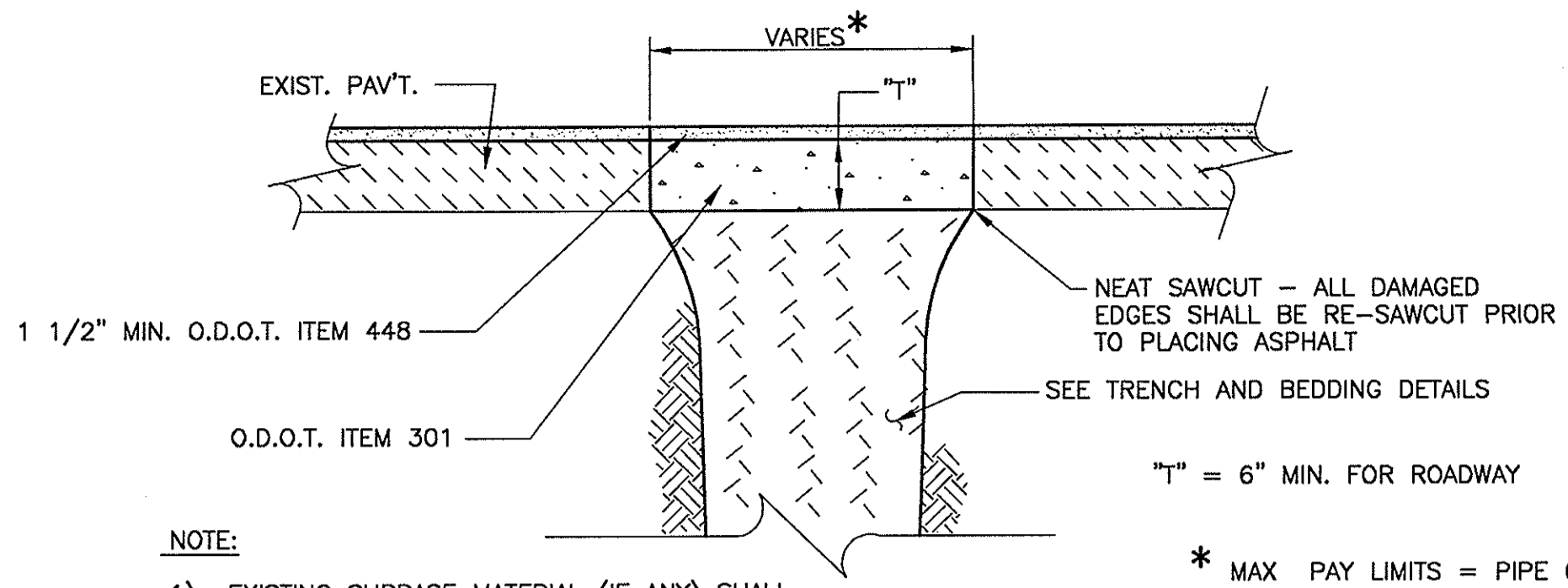
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CONTRACT No.	
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SHEET NO.	OF
8	11



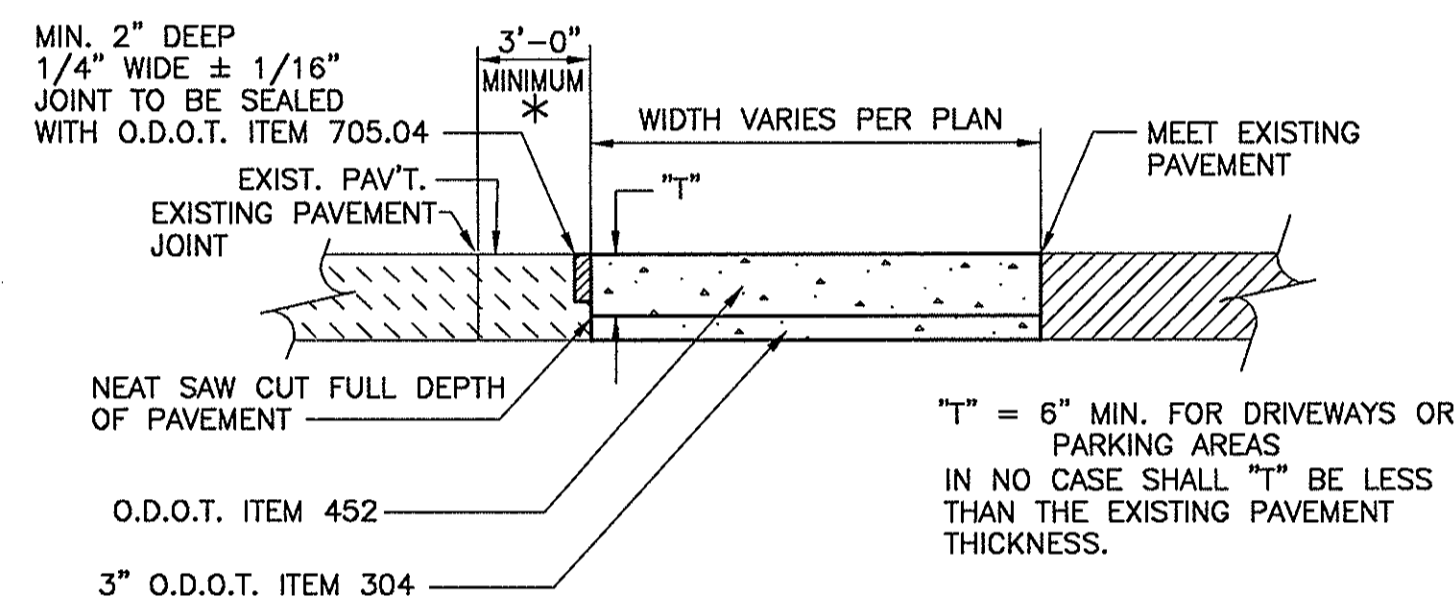
DRIVEWAY APPROACH DETAIL
N.T.S.



CONCRETE WALK DETAIL
NO SCALE

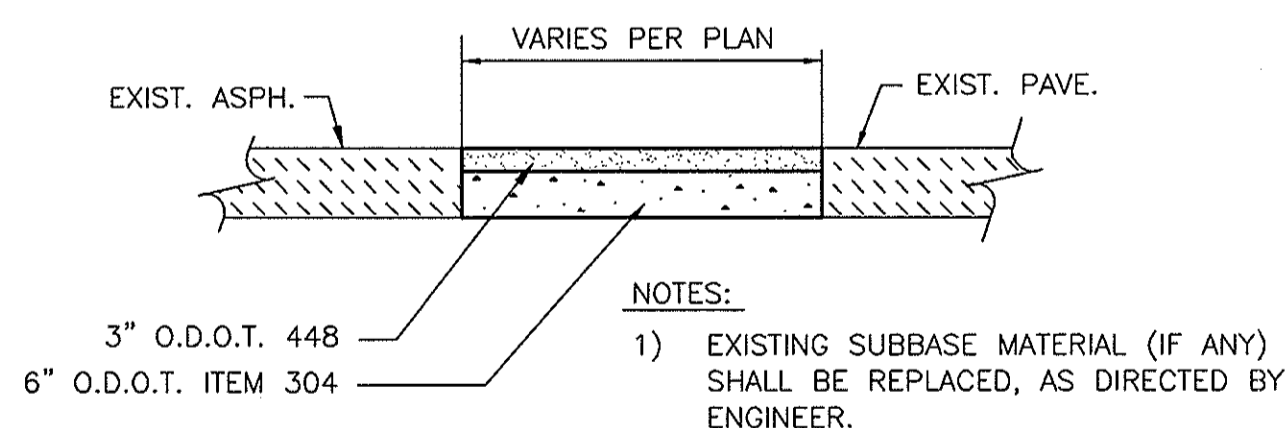


PAVEMENT/TRENCH REPAIR
N.T.S.

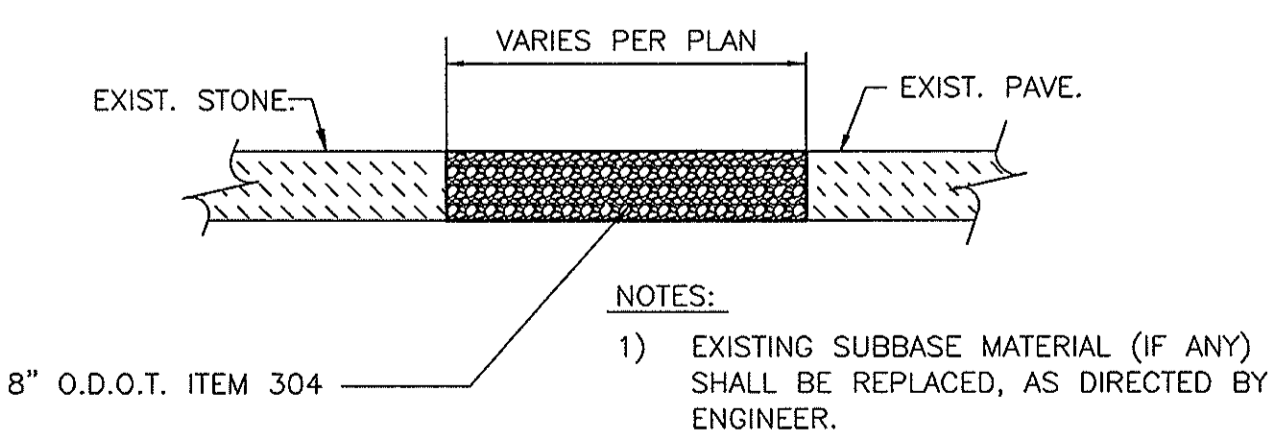


- NOTES:**
- EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
 - REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
 - 5/8" HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- * WHERE WIDTH IS LESS THAN 3'-0" OR EXISTING PAVEMENT IS DETERIORATED, THE CONTRACTOR SHALL REPLACE ADDITIONAL PAVEMENT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADDITIONAL PAVEMENT REPLACEMENT AS DIRECTED BY THE ENGINEER SHALL BE AT THE SAME UNIT PRICE BID.

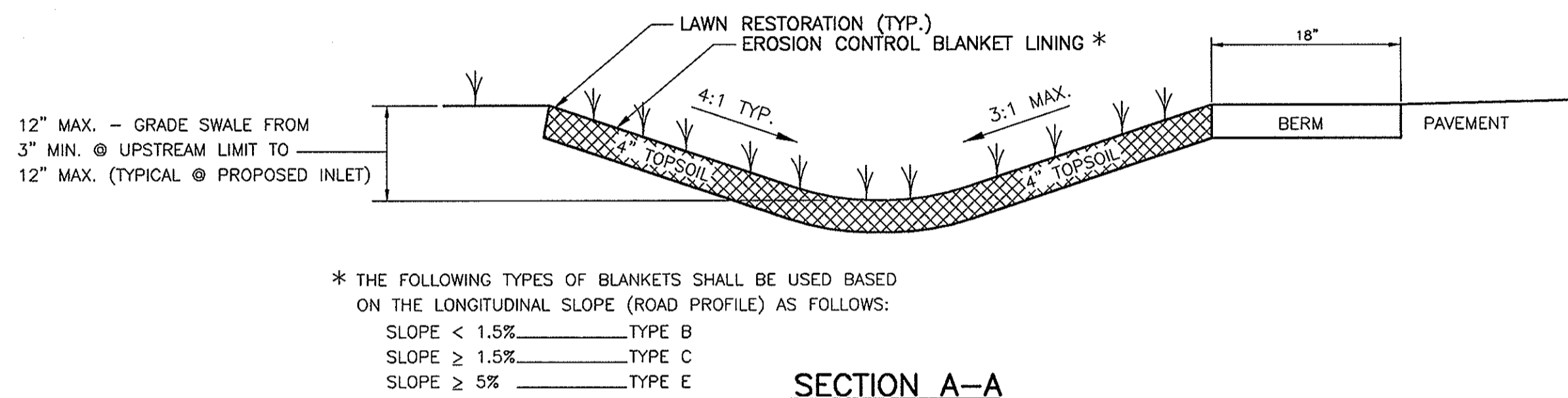
CONCRETE DRIVE APRON



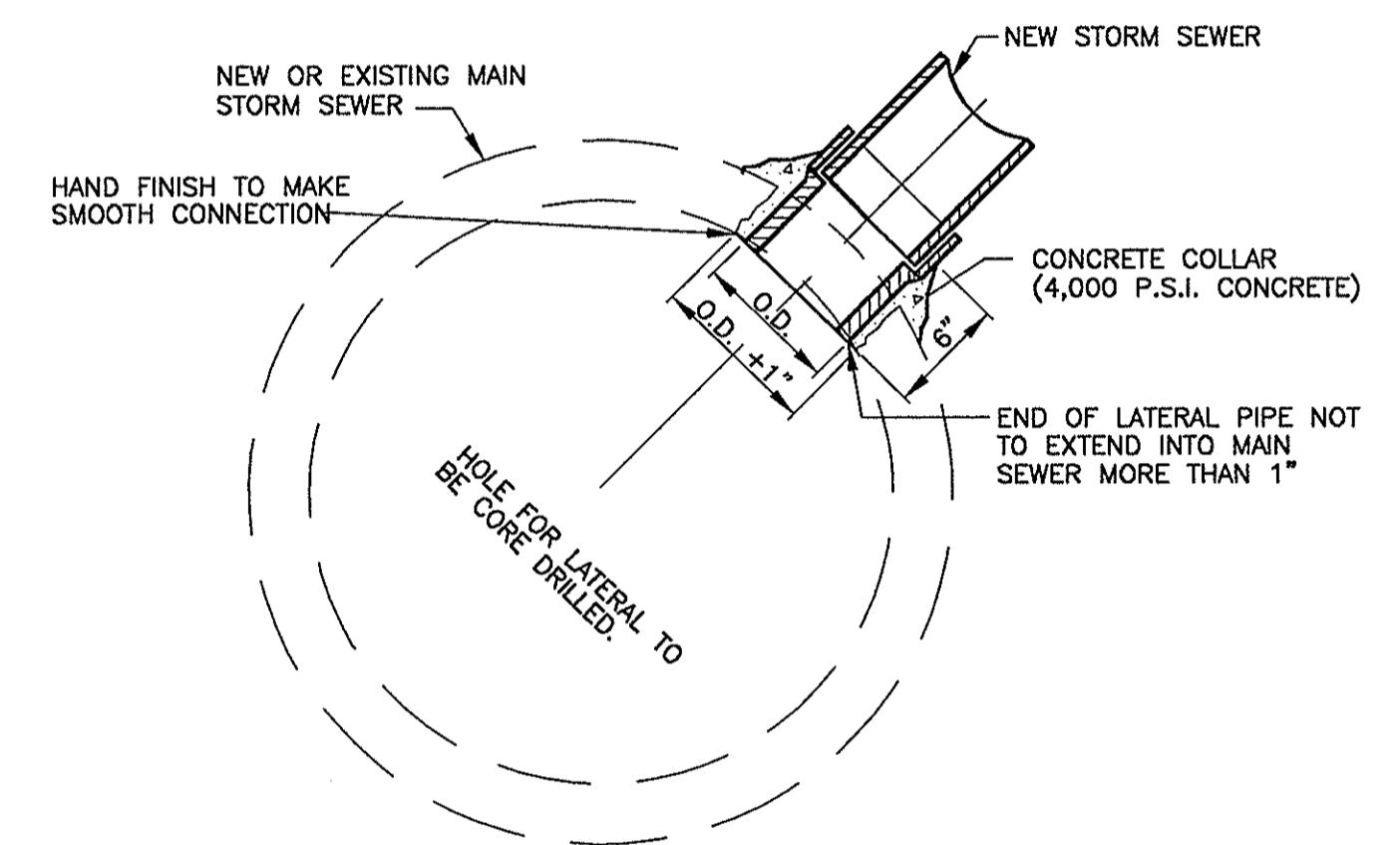
ASPHALT DRIVE APRON



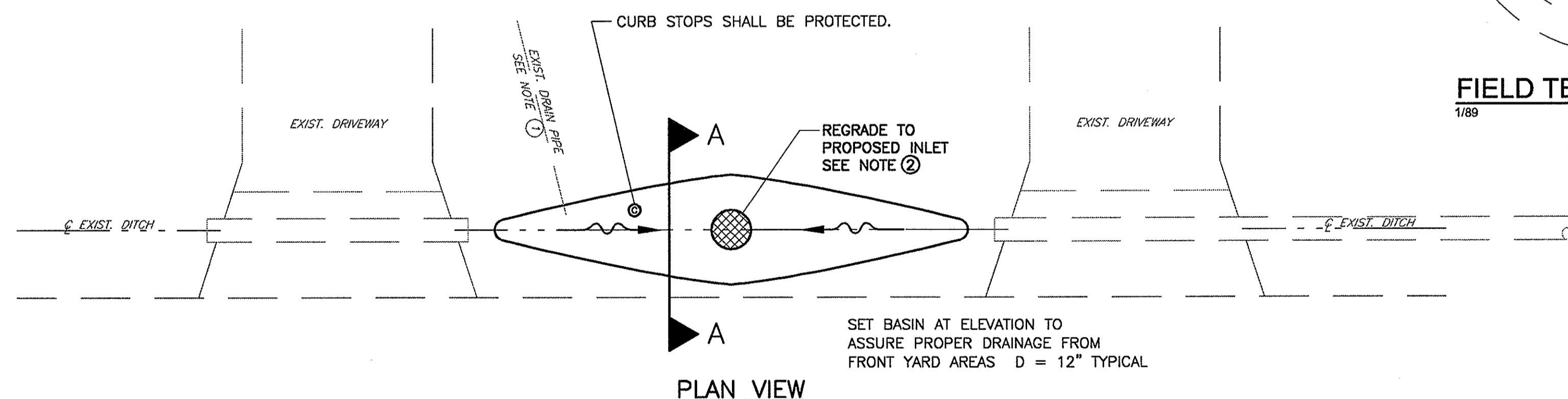
STONE DRIVE APRON



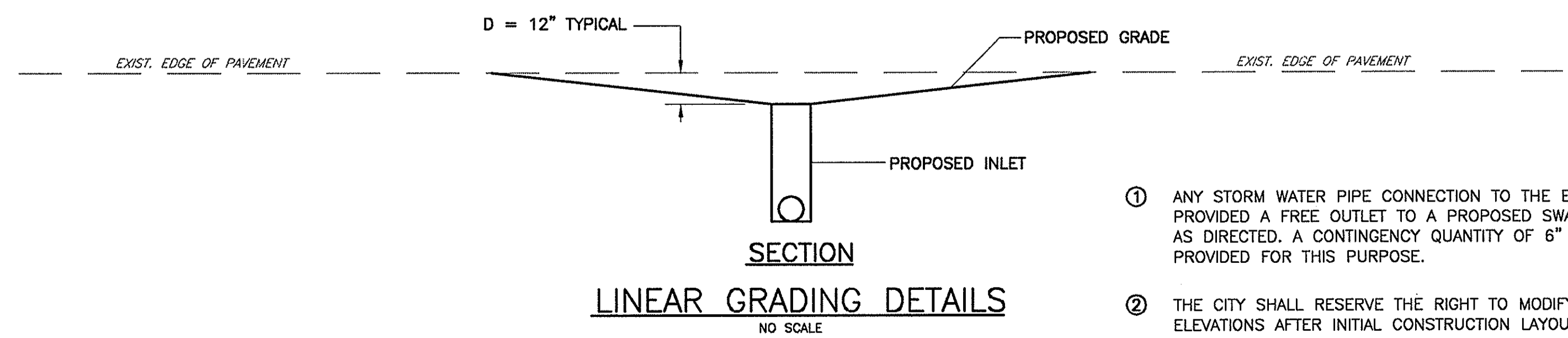
SECTION A-A
GRASSED SWALE
N.T.S.



FIELD TEE CONNECTION
SD-2-15



PLAN VIEW



SECTION
LINEAR GRADING DETAILS
NO SCALE

- ANY STORM WATER PIPE CONNECTION TO THE EXISTING DITCH OR PIPES SHALL BE PROVIDED A FREE OUTLET TO A PROPOSED SWALE, CATCH BASIN OR STORM SEWER AS DIRECTED. A CONTINGENCY QUANTITY OF 6" CONDUIT TYPE C HAS BEEN PROVIDED FOR THIS PURPOSE.
- THE CITY SHALL RESERVE THE RIGHT TO MODIFY DITCH INLET LOCATIONS AND ELEVATIONS AFTER INITIAL CONSTRUCTION LAYOUT STAKING IS COMPLETED.

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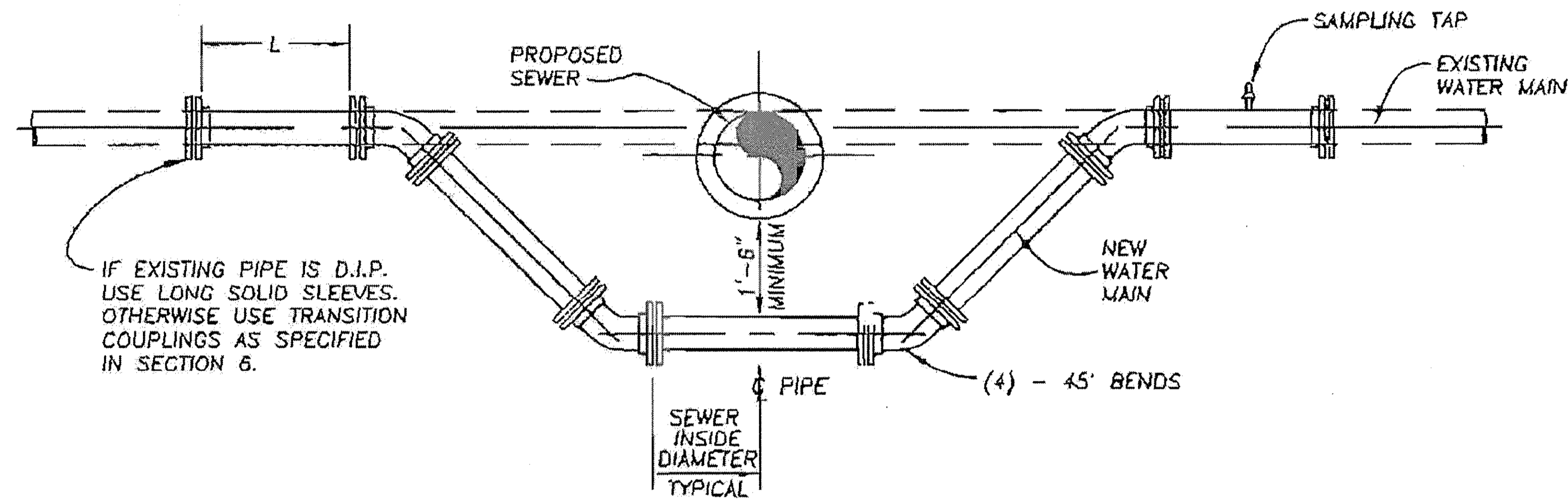
REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
DRAWN BY: LML
CHECKED BY: TRL
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STANDARD DETAILS

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9	11



IF EXISTING PIPE IS D.I.P.
USE LONG SOLID SLEEVES.
OTHERWISE USE TRANSITION
COUPLINGS AS SPECIFIED
IN SECTION 6.

FOR 6" DIA PIPE L=12'
FOR 8" DIA PIPE L=16'
FOR 12" DIA PIPE L=23'
FOR 16" DIA PIPE L=32'

- NOTES:
- 24 HOUR ADVANCED NOTICE MUST BE GIVEN TO ALL AFFECTED RESIDENTS
 - DISINFECT PIPE PER AWWA STANDARDS
 - SEE CONTRACT DOCUMENTS FOR GENERAL NOTES & BEDDING DETAILS
 - RESTRAIN ALL JOINTS FOR ENTIRE LENGTH OF PIPE
 - PROVIDE 18" MINIMUM SEPARATION BETWEEN CROSSING PIPES
 - SAMPLING TAP REQUIRED IF THERE ARE NO HOUSES OR HYDRANTS FOR FLUSHING IN SHUT DOWN AREA (TAP TO BE ABANDONED AFTER TEST)

FIG 2.5.3

LAKE COUNTY DEPARTMENT OF UTILITIES		
WATER MAIN RELOCATION UNDER PROPOSED SEWER (TYP)		
DATE: 08-03	DRAWN BY: -	SCALE: NONE

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VERT.	
CONTRACT No.	
10088	
SHEET NO.	OF
10	11

NOTE
THE PROJECT COORDINATE SYSTEM IS BASED UPON:

HORIZONTAL DATUM - NORTH AMERICAN DATUM OF 1983 (NAD83)
PROJECT COORDINATES HAVE BEEN ADJUSTED
BY DIVIDING GEODETIC COORDINATES BY A
CONSTANT SCALE FACTOR OF 0.9999570724

VERTICAL DATUM - NATIONAL GEODETIC VERTICAL DATUM 1988 (NAVD 1988)

BENCH MARKS

TOP IRON PIPES SET
ELEVATIONS AT RIGHT IN PROJECT
CONTROL COORDINATE CHART

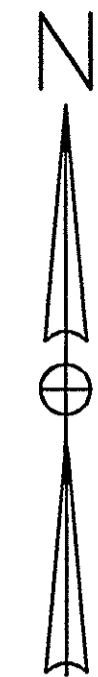
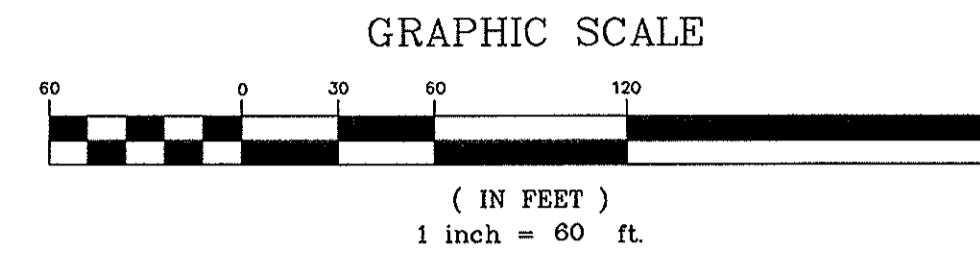
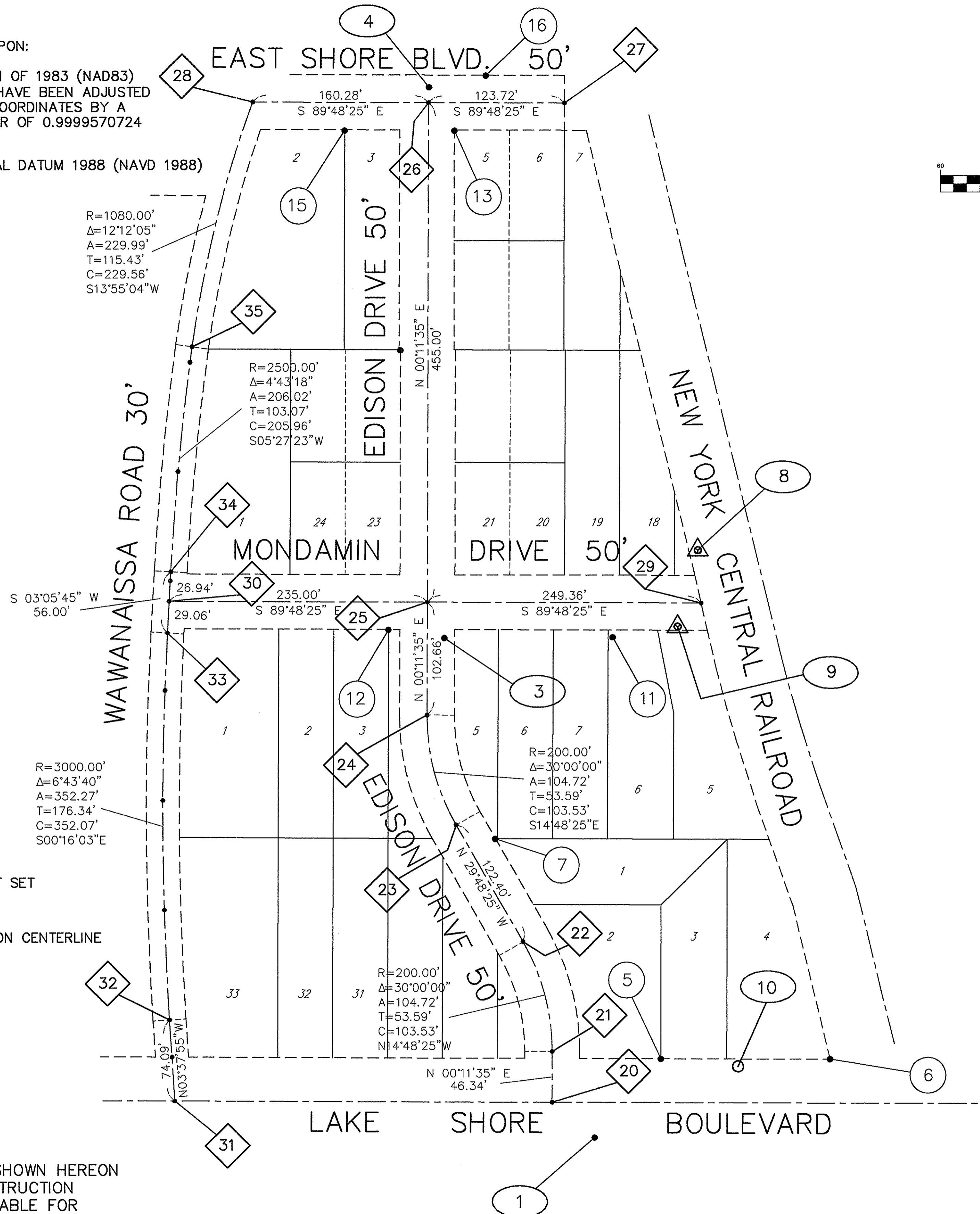
DESCRIPTION LEGEND

- 1 - MON. BOX
- 2 - IRON PIN SET
- 3 - IRON PIN FOUND
- 4 - IRON PIPE FOUND
- 5 - DRILL HOLE
- 6 - HUB
- 7 - P. K. NAIL
- 8 - CONC. MON
- 9 - GPS POINTS
- 10 - MISC. CTL

LEGEND

- 500 GPS CONTROL POINT SET
- 200 BASELINE CONTROL / REFERENCE POINT SET
- 600 EXISTING SURVEY MONUMENTATION
- 200 CALCULATED LOCATION OF CONSTRUCTION CENTERLINE

NOTE
THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON
WAS OBSERVED IN THE FIELD FOR CONSTRUCTION
PURPOSES ONLY AND MAY NOT BE SUITABLE FOR
PROPERTY LINE SURVEYS OR OTHER PURPOSES.



CONTROL FILE

H: \2008\08109\SURVEY\08109CTL.TXT

PROJECT CONTROL COORDINATES

PNT	NORTH	EAST	ELEV.	DESC.
1,	729220.4900,	2259645.6640,	589.79,	2
2,	729219.8120,	2258931.5520,	614.72,	2
3,	729675.1445,	2259509.0188,	586.89,	2
4,	730176.8091,	2259495.5176,	587.16,	2
5,	729292.1171,	2259705.9352,	587.31,	3
6,	729291.6971,	2259860.3184,	587.39,	3
7,	729492.6051,	2259555.3516,	586.90,	3
8,	729755.4297,	2259740.0194,	586.79,	6
9,	729685.4430,	2259721.5443,	586.98,	6
10,	729285.1142,	2259776.3326,	587.52,	10
11,	729675.7833,	2259662.3497,	586.01,	3
12,	729682.6739,	2259458.0743,	586.64,	3
13,	730137.1276,	2259518.7427,	586.78,	3
14,	729937.4007,	2259469.1875,	586.64,	3
15,	730137.2881,	2259418.6844,	587.52,	3
16,	730187.3391,	2259547.2262,	587.25,	3
20,	729252.4509,	2259606.8010,	0.00,	10
21,	729298.7907,	2259606.9571,	0.00,	10
22,	729398.8804,	2259580.4994,	0.00,	10
23,	729505.0876,	2259519.6569,	0.00,	10
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35,	729940.5561,	2259279.5859,	0.00,	10

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REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

EDISON DRIVE & MONDAMIN DRIVE
STORM SEWER IMPROVEMENTS
CITY OF EASTLAKE, COUNTY OF LAKE, OHIO

DATE: JULY 2010
DRAWN BY: LML
CHECKED BY: TRL
APPROVED BY: TRL
F.B. No. 1221 Pg. 110-156

SURVEY CONTROL SHEET

SCALE	
HOR.	AS NOTED
VERT.	
CONTRACT No.	
10088	
SHEET NO.	OF
11	11