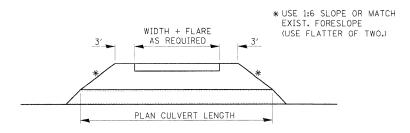
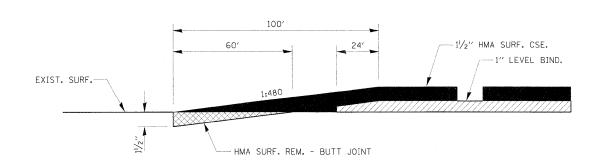


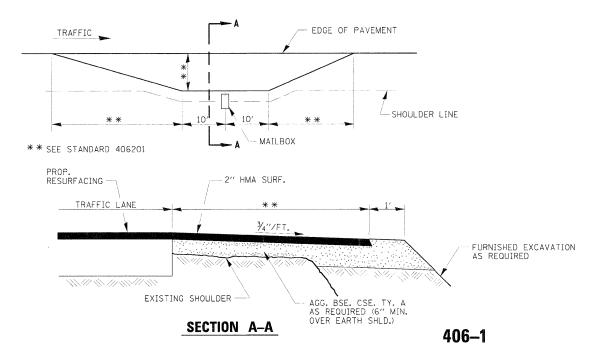
SECTION A-A



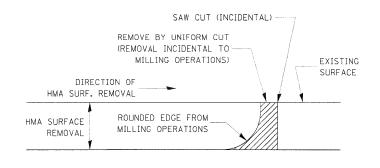
FIELD ENTRANCE DETAIL 402-1



HMA DETAIL AT BUTT JOINTS 406-11



RURAL MAILBOX TURNOUT DETAILS



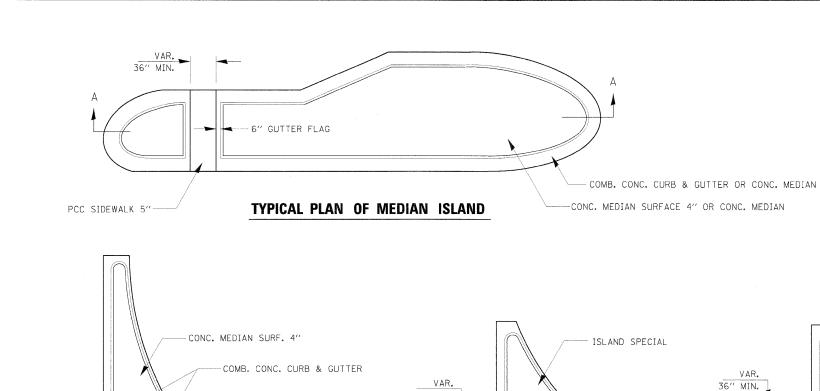
NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

406-8

F	ILE NAME =	USER NAME = MWH	DESIGNED -	DPA	REVISED -		NORTHERN ILLINOIS UNIVERSITY	F.A.P. SECTION	COUNTY TOTAL SHEET
9 c	-517-06T.dgn		DRAWN -	MWH	REVISED -	STATE OF ILLINOIS	FAR WEST CAMPUS EXPANSION	567 06-00002-00-PV	DEKALD 148 139
	***	PLOF SCALE = AS SHOWN	CHECKED -	DPA	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT 3 DETAILS	33.1	CONTRACT NO. 8747
Ž	-	PLOT DATE = 11\05\2010	DATE -	11/04/10	REVISED -		SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST, NO. ILLINOIS FE	D. AID PROJECT
								A CONTRACTOR OF THE PROPERTY O	



INTERMEDIATE ISLAND

(FOR RIGHT TURN LANE DESIGN)

-ISLAND SPECIAL **SMALL ISLAND**

GENERAL NOTES

SEE STANDARD 606301 AND PLAN SHEETS FOR STATION, OFFSETS, RADII, DIMENSIONS, AND DETAILS NOT SHOWN.

THE SIDEWALK SHOULD DRAIN TO THE LOW SIDE OF THE ISLAND. IF NECESSARY THE SIDEWALK SHALL BE SLOPED TO DRAIN AT A MAXIMUM 2% GRADE.

SEE THE PLAN GENERAL NOTES FOR THE TYPE OF CURB & GUTTER TO BE USED ON ISLANDS.

CURB & GUTTER ADJACENT TO THE WALKWAY IN THE INTERIOR OF THE ISLAND SHALL HAVE 6" GUTTER FLAGS.

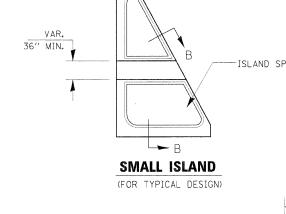
THE SIDEWALK SHOULD NOT BE CLOSER THAN 36" FROM THE CORNER OF THE ISLAND.

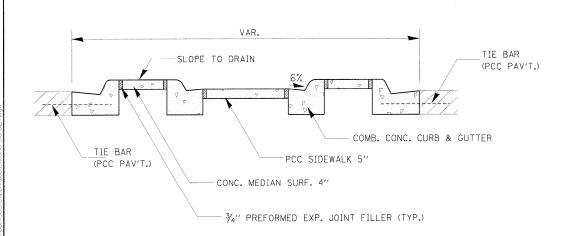
KEYED LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS.

MEDIANS AND LARGE ISLANDS SHALL CONSIST OF PCC SIDWALK 5". CONCRETE MEDIAN SURFACE 4", AND COMBINATION CONCRETE CURB & GUTTER, TYPE M OR B OF THE SIZE SPECIFIED. MEDIAN ISLAND CAN ALSO BE SOLID CONCRETE MEDIANS.

LOCATIONS, LAYOUTS, AND WIDTHS OF THE FLUSH SIDEWALK AREA, SHALL BE DETERMINED BY THE DESIGNER AND SHOWN ON THE PLANS.

THE INTERMEDIATE AND SMALL ISLANDS WILL BE MEASURED FOR PAYMENT FROM E.O.P. TO E.O.P. USING EITHER OPTION 1 OR OPTION 2, AS DIRECTED BY THE ENGINEER, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ, YD. FOR ISLAND SPECIAL, WHICH SHALL INCLUDE THE COMBINATION CURB & GUTTER, SIDEWALK, AGGREGATE FILL, CONCRETE MEDIAN SURFACE, AND SOLID CONCRETE MEDIAN.





LARGE ISLAND (FREE FLOW DESIGN)

SECTION A-A

PCC SIDEWALK 5"

VAR.

36" MIN.

HANSON

PCC PAV'T. --BIT. CONC. MEDIAN OPTIONAL KEYED -TIE BAR CONSTRUCTION JOINT OPTION 1 VAR. SLOPE TO DRAIN -BIT. SURF. EXIST. PAV'T PCC BSE. CSE. TIE BAR 3/4" PREFORMED EXP. JOINT FILLER (TYP.) (PCC PAV'T.) PCC SIDEWALK 5" CONC. MEDIAN SURF. 4" AGG. FILL (TYP.)

VAR.

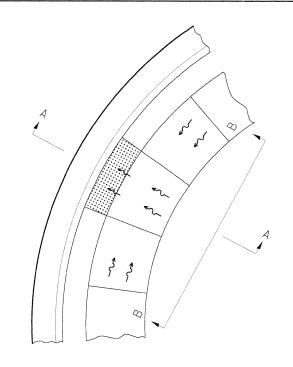
SLOPE TO DRAIN

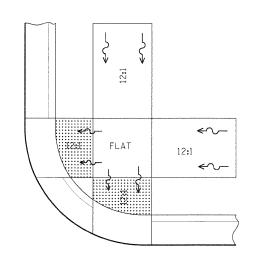
SECTION B-B

424-28

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IEW.		PLOT SCALE = AS SHOWN	CHECKED -	DPA	REVISED	DEPARTMENT OF TRANSPORTATION	DISTRICT 3 DETAILS	1		CONTRAC	T NO 8747	ا ءً،
SEV.		PLOT DATE = 11\05\2010	DATE -	11/04/10	REVISED -		SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED	. AID PROJECT	1 110, 01411	-







SEE STANDARD 424001 FOR SIDE FLARE DETAIL & SEE PLANS FOR RAMP TYPE.

NOTES:

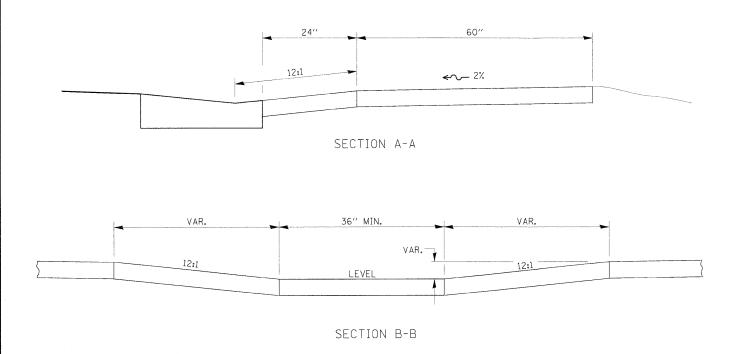
THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001.

THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2%.

THE MAXIMUM ALLOWABLE SIDEWALK GRADE IS 8%.

IF SPACE LIMITATIONS PROHIBIT THE USE OF THE 12:1 SLOPE, THEN SLOPES BETWEEN 10:1 AND 12:1 ARE PERMITTED FOR A MAXIMUM RISE OF 6". SLOPES 8:1 AND 10:1 ARE ALLOWED FOR A MAXIMUM RISE OF 3". SLOPES STEEPER THAN 8:1 ARE NOT PERMITTED.

THE DEPRESSED CURB IS NOT STANDARD. THE RISE IS $\frac{1}{2}$ " INSTEAD OF $\frac{1}{2}$ ".



ADA SIDEWALK ACCESSIBILITY RAMP DETAIL

424-29

AGGREGATE BASE

CA7 OR CA16

MATCH PAVEMENT—
CROSS SLOPE (MIN 1.5%)

PIPE UNDERDRAIN 4"

NOTES

DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS

AND AS INDICATED IN THE PLANS.

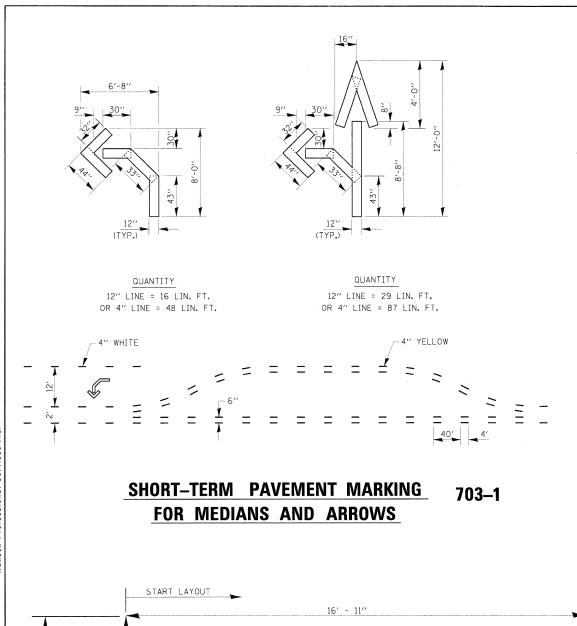
THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

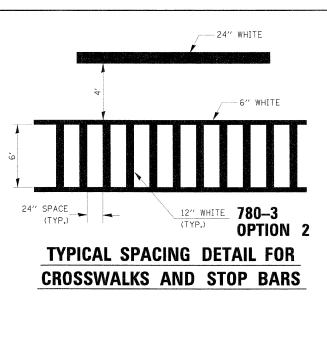
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

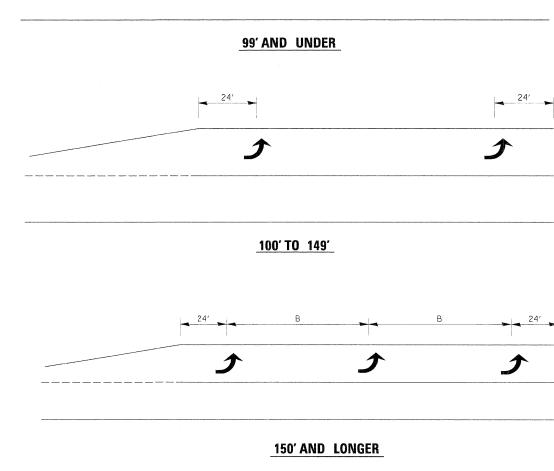
601-4

DRAIN FOR AGGREGATE BASES IN URBAN AREAS

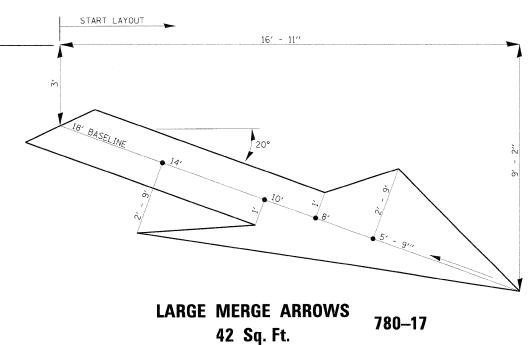
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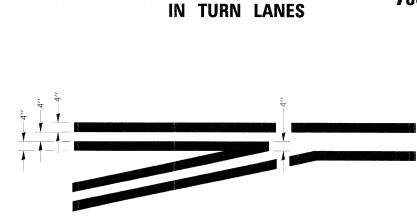






ADVANCE AND INTERSECTION LANE LARGE MERGE ARROWS 780-17





TYPICAL PLACEMENT OF ARROWS

TYPICAL APPLICATION LEFT TURN LANES

780-1

780-10

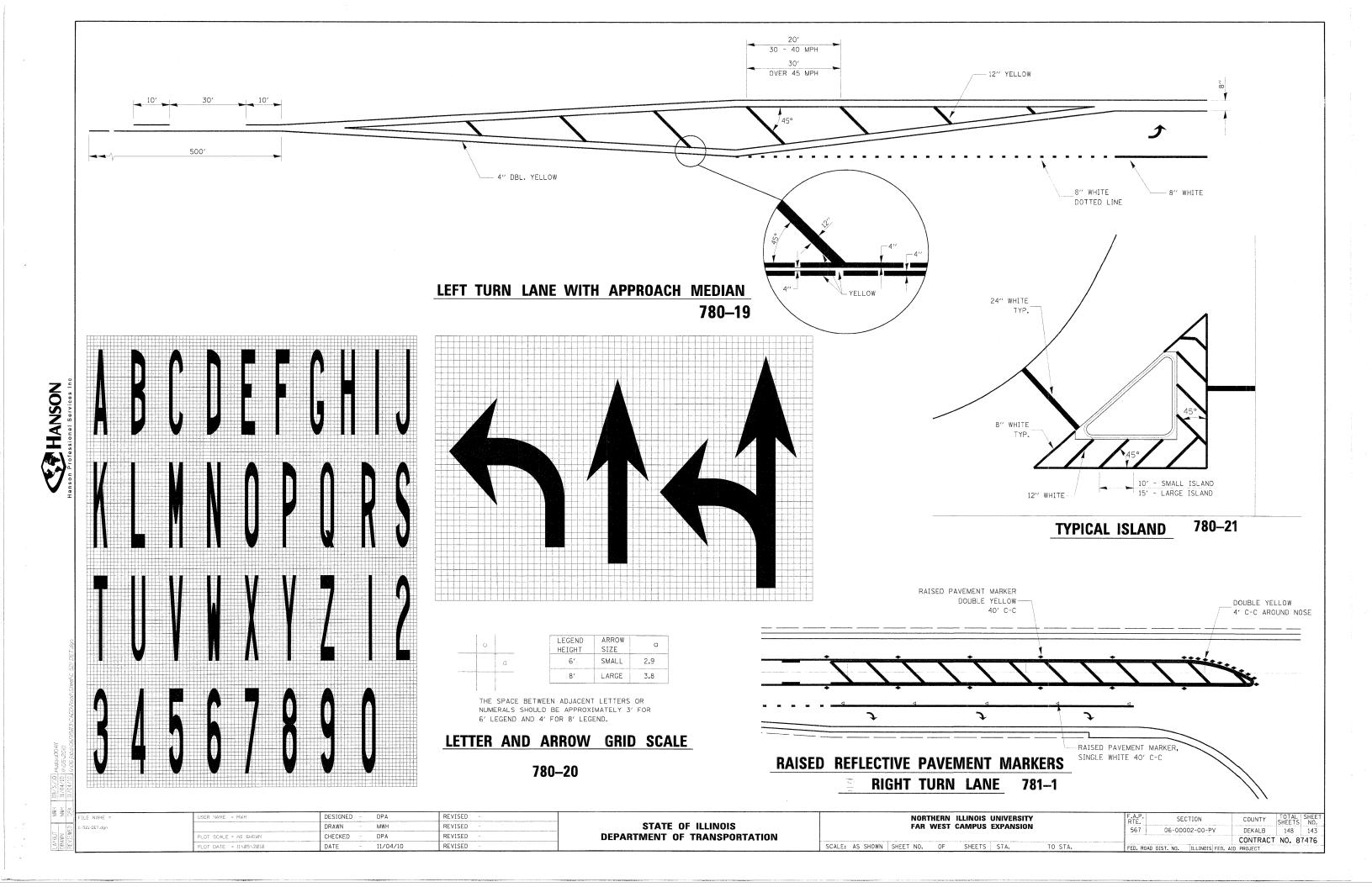
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DIVIDER LINES 780-5

NORTHERN ILLINOIS UNIVERSITY FAR WEST CAMPUS EXPANSION DISTRICT 3 DETAILS SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

SECTION TOTAL SHEET SHEETS NO. 148 142 06-00002-00-PV DEKALB CONTRACT NO. 87476



THE REQUIREMENTS OF THE DEKALB SANITARY DISTRICT SET FORTH IN THESE NOTES AND DETAILS ARE NOT INTENDED TO BE ALL-INCLUSIVE, BUT RATHER TO HIGHLIGHT MORE SIGNIFICANT ITEMS.

THE DISTRICT RESERVES THE RIGHT TO ESTABLISH OR MODIFY REQUIREMENTS, THAT ARE DEEMED APPROPRIATE IN THE DPINON OF THE DISTRICT, AS NEEDED, ON A CASE BY CASE BASIS.

OTHER REQUIREMENTS OF THE DISTRICT MAY BE FOUND IN VARIOUS ORDINANCES RELATING TO SEWER USE CHARGES, ANNEXATION/CONNECTION FEES, INSTALLATION AND OPERATION OF SANITARY INFRASTRUCTURE AND ENFORCEMENT OF REGULATIONS.

SANTARY SEWER CONSTRUCTION SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN LA NOIS', LATEST EDITION AS PUBLISHED BY THE ILLINO'S SOCIETY OF PROFESSIONAL FRONCESS. THE STANDARD SOUNS'FRATHE COOKS. SUBTILLE OF MALEY POLLUTING, HOPPER, MC. WORKS (MS.S.M), AND THE "STANDARD SPECIFICATIONS FOR ROAD AND DRINGE CONSTRUCTION, LATEST EDITION, LILINO'S DEPARTMENT OF TRANSPORTATION (SSEED.)

PROJECT COMPLETION, ACCEPTANCE AND PLACEMENT OF SEWERS INTO SERVICE:

THE DEKALB SANITARY DISTRICT WILL INSTALL ISOLATION PLUG(S) TO PROTECT THE 'LIVE' DOWNSTREAM SANITARY SEWERS FROM EXTRANEOUS WATER AND DEBRIS DURING SEWER CONSTRUCTION.

THE SOLATION PLUG(S) WILL NOT BE REMOVED UNTIL THE NEW SEWERS HAVE PASSED THE REQUIRED TESTS, INSPECTIONS AND ALL REQUIRED DOCUMENTATION, IN ACCEPTABLE FORMAT, HAS BEEN PROVIDED AND AT SUCH THIS THAT THE DISTRICT DETERMINES TO BE APPROPRIATE.

TAMPERING WITH OR REMOVAL OF THE ISOLATION PLUGKS) IS A VIOLATION OF DEKALB SANITARY DISTRICTORDINANCE NO. 255, ANY PERSONS VIOLATING SAID ORDINANCE PROVISION IS SUBJECT TO FRES, LEGAL ACTION, AND MEMBERATE ARREST.

QUALITY ASSURANCE ("1-6 ON STATUS MATRIXOS QUALITY ASSURANCE (QAI NOSPECTIONS AND TESTS ARE REQUIRED. THE DEVELOPER'S CONTRACTOR WILL PERFORM THE QA TESTING WORK OR SUBCONTRACT IT TO A COMPANY THAT PERFORMS THESE SERVICES, TESTING WILL INCLIDE LOW PRESSURE ARE TESTING, DEFLECTION TESTING OF ALL FLEXIBLE PIPE, LAMPING, MANHOLE VACULAN TESTING AND TLEEVISHOR ALL GRAVITY SEWER PIPE, ALL PIPE SHALL JETTED AND THE SYSTEM CLEANED OF DEBRS PRICE TO TELEVISHOR. THE DEVELOPER'S HALL FLEXISH. THE DISTRICT WITH ONE CODY OF THE VIDEOTAPE FOR REVIEW, IN THE EVENT THAT A DEFICIENCY SINCE PEVELOPER'S CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THIS DEFICIENCY AND RETESTING THE FAILED SECTION.

RECORD DRAWINGS ARE TO BE LABELED "RECORD DRAWINGS" AND DATED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF ILLINOIS.

COST OF SANITARY SENERS THAT WILL BE DEDICATED AS PUBLIC ("8 ON STATUS MATRIX")
THE COVERNMENTAL ACCOUNTING STANDARDS BOARD REQUIRES COVERNMENT AGENCES TO 15T THEIR
IMPRASTRUCTURE ASSETS (AGASE 30), FT HE SANITARY NEFAS ROUTENESS (ONCE 15T SECOND TO 15T THEIR
IMPRASTRUCTURE SOURCE AGASE 30, FT HE SANITARY NEFAS ROUTENESS (ONCE 15T SECOND TO 15T SECON

PROJECT COMPLETION/ACCEPTANCE FOR SERVICE ("HO ON STATUS MATRIX);
THE PLACEMENT OF THE NEW SEMENS INTO SERVICE WILL NOT COOR WITH ALL PROJUBEMENTS ARE SUCCESSFULLY
COPPLET SICK INC. THE NEW SEMENS INTO SERVICE WILL NOT COOR WITH ALL PROJUBEMENTS ARE SUCCESSFULLY
COPPLET SICK INC. THE NEW SEMENTS OF THE NEW STATUS OF EAPPROPRIATE.
PROVIDED THAT ALL OUTSTANDING REQUIREMENTS (AS NOTED IN THE SEVER PROJECT OFFICENCY & STATUS MEMO
AND IN THE SANITARY SEMER PROJECTS STATUS MATRIXEN FAVE BEEN COMPLETED AND (PON WRITTEN REQUEST
FROM THE DEVELOPER TO MAKE THE SANITARY SEWER AVAILABLE FOR USE, THE DISTRICT WILL ACCEPT AND ALLOW
THE SANITARY SEWER PORTION OF THIS PROJECT TO BE ACTIVATED FOR SERVICE.

CONSTRUCT MANHOLE NITH LID/CASTNG SET TO FINSHED GRADE.LID MUST BE EXPOSED. IN PAVEMENT, BINDER COURSE IS TO BE RAMPED AROUND FRAMES TO PROTECT FROM EQUIPMENT STRIKES IF THE FINAL LEVELING COURSE IS NOT INSTALLED FOR A SASON OR MORE.

SANITARY MANHOLE FRAME TO CONE SEALS (CHIMNEY SEALS) SHALL CONSIST OF AN EXTERNAL CANUSA WRAPID SEAL INSTALLATION, MANUFACTURE'S INSTALLATION PROCEDURES ARE TO BE FOLLOWED FOR PREPARATION AND INSTALLATION OF THE CANUSA RRAPID SEAL.

IF IT BECOMES NECESSARY TO RE-ADJUST ANY MANHOLE FRAME ELEVATION, RENSTALL THE NECESSARY PORTION OF THE CHIMNEY SEAL AND CONTACT THE DISTRICT FOR FINAL VISUAL INSPECTION OF THE CHIMNEY SEAL PRIOR TO ANY BACKFLLING.

MARKALE SPECTICATIONS: PROVIDE PRECAST REINFORCED CONCRETE MANHOLE SECTIONS, CONES, BOTTOMS, AND FLAT TOP SLABS COMPLYING WITH ASTM C478. DESIGN FLAT TOP SLABS FOR HS20-44 LOADINGS.

PROVIDE PRECAST REINFORCED CONCRETE MONOLITHIC BASES WITH PRECAST INVERT AND BENCHES FOR NEW SEWER LINES.

THE EXTERIOR OF MANHOLE ELEMENTS ARE TO BE 'WATERPROOFED' WITH A FACTORY APPLICATION OF CONSEAL CS-55 (PER MANUFACTURE'S SPECIFICATIONS).

JOINTS FOR PRECAST SECTIONS:
PROVIDE TONGUE AND GROUPE JOINTS WITH EITHER FLEXIBLE WATERTIGHT RUBBER GASKETS OR PREFORMED
BITUMHOUS MASTIC GASKETS CONSISTING OF A HOMOGENEOUS BLEND OF REFINED HYDROCAPBON RESMAS AND
PLASTICIZING COMPOUND REINFORCED WITH INJERT MINERAL FILLER,
ACCEPTABLE PREFORMED GASKET PRODUCTS.

ON THE EXTERIOR OF BARREL TO BARREL JOINTS, APPLY MAC WRAP WATERPROOFING STRIPS (MAR MAC COMPANY).

PROVIDE STEPS WITH A MINIMUM WIDTH OF 12 INCHES AND A MINIMUM PROJECTION OF 5 INCHES, STEPS SHALL BE PROVIDED ON 16' CENTERS.

USE STEPS CONSISTING OF COPOLYMER POLYPROPYLENE PLASTIC WITH A CONTINUOUS I/2-INCH STEEL REINFORCEMENT AS MANUFACTURED BY M.A. INDUSTRIES, INC.

PROVIDE CAST IRON FRAMES AND LIDS WITH SOLID SELF-SEALING LIDS AND MACHINED BEARING SURFACES, STAMPED WITH THE WORD 'SANTARY'.

ACCEPTABLE PRODUCTS: NEENAH R-1712, EAST JORDAN 1050 SD EXTRA HEAVY DUTY OR EQUAL PROVIDE BOLTED AND GASKETED COVERS WHERE DIRECTED BY THE DISTRICT.

ACCEPTABLE PRODUCTS: NEENAH R-1916-C. EAST JORDAN 1058 WT OR EQUAL.

ADJUSTMENT OF FRAMES AND COVERS:

8-INCH TO 12-INCH DIAMETER DROP: PVC 5DR 26,

DROP SHALL BE PRECAST AND CONSTRUCTED VERTICALLY AND PARALLEL TO THE OUTSIDE OF THE MANHOLE. OVER 12-INCH DIAMETER DROP; DUCTILE IRON CLASS 50.

ENCASE ENTRE DROP PIPE FROM BASE OF MANHOLE TO 6 INCHES ABOVE TOP OF INCOMING SEWER WITH 4000 PSI CONCRETE AT A WINMUM THICKNESS OF 6 INCHES.

DROP SHALL BE CONSTRUCTED VERTICALLY AND PARALLEL TO THE OUTSIDE OF THE MANHOLE.

ENCASE DROP ELBOW AT BASE OF MANHOLE ONLY IN CONCRETE.

UTILIZE DUCTILE IRON RESTRAINED JOINT PIPE AND FITTINGS FOR DROP ELBOW, PIPE, AND DUCTILE IRON TEE AT INCOMING SEWER.

SUPPORT DROP PIPE TO MANHOLE WALL WITH STAINLESS STEEL BRACKETS AND STRAPPING WHERE DROPS ARE OVER 10 FEET LONG,

LENGTHS OF IDENTICAL PIPE SHALL BE FITTED WITH NON-SHEAR COUPLINGS AND THEN ATTACHED TO THE MANHOLE USING BOOTED CONNECTIONS. DOGHOUSING OR PLACING STRUCTURES DIRECTLY OVER THE EXISTING LINES IS NOT PERMITTED

ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS SECTION 370,330,E.2.

REMOVE LID AND PLACE VACUUM TESTER HEAD ON TOP PORTION OF FRAME, DRAW VACUUM OF IO INCHES HO (MERCURY)

TIME FOR VACUUM TO DROP TO 9 INCHES HG SHALL NOT BE LESS THAN 40,50, OR 60 SECONDS FOR MANHOLE DIAMETERS OF 48,60, AND 72 INCHES, RESPECTIVELY. FOR MANHOLES DEEPER THAN 20 FEET, TEST TIMES SHALL BE INCREASED BY 2 SECONDS PER FOOT OF ADDITIONAL MANHOLE DEPTH.

GREASE INTERCEPTORS:

ALL NEW CONSTRUCTION OF COMMERCIAL OR INSTITUTIONAL FOOD SERVICE ESTABLISHMENTS SHALL REQUIRE A GREASE INTERCEPTOR AS PER THE DSD STANDARD DETAIL

DUCTILE-IRON PIPE AND FITTINGS:

DUCTLE IRON PIPE: AWWA CISI, THICKNESS AWWA CISO; INTERIOR CEMENT LINING AND BITUMINOUS COATINGS, EXTERIOR COAL TAR COATING, AWWA CIO4, PRESSURE CLASS 350, JOINTS SHALL BE AWWA CHIRUBBER RING SLIP SEAL OR PUSH-ON TYPE

PIPE: COMPLY WITH ANSI A21,51, CLASS 50,

ALL PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH ANSIAZI.4, STANDARD THICKNESS.

PVC PIPE AND FITTINGS:

PVC PLASTIC SEWER PIPE AND FITTINGS (DEPTHS OF 20' OR LESS)

PVC HEAVY WALL GRAVITY SEWER PIPE (DEPTHS GREATER THAN 20")

POLYVINYL CHLORDE (PYC) PIPE: ASTM D3034, HEAVY WALL SEWER PIPE; SDR-26, JOINTS SHALL BE ASTM D3212 FLEXIBLE ELASTOMERIC SEALS.

PVC PIPE SHALL CONFORM TO AWWA C900/C906, DEPENDING ON DIAMETER. DIMENSION RATIO SHALL BE INDICATED ON THE PLANS AND SHALL BE NO GREATER THAN 21.

JOINTS SHALL BE ELASTOMERIC PUSH-ON TYPE JOINTS IN ACCORDANCE WITH ASTM F477 AND SHALL BE PRESSURE RATED IN ACCORDANCE WITH ASTM D3339

PYC WATER MAIN QUALITY PIPE (LARGE DIAMETER AT DEPTH GREATER THAN 20')

THE USE OF HOPE AND ALL FITTINGS WILL BE APPROVED BY THE DISTRICT ON A CASE-BY-CASE BASIS. ALL HOPE WELDS SHALL BE CERTIFIED THROUGH THE USE OF A DATALOGGER.

PROVIDE NON-SHEAR FLEXIBLE RUBBER COUPLINGS WITH ADJUSTABLE STAINLESS STEEL BANDS FOR CONNECTING NEW PIPE TO EXISTING SEWER PIPE AND FOR REPAIRING SEWER PIPE.

ALL PIPE SHALL BE INSPECTED AND APPROVED BY THE DISTRICT OR DISTRICT'S AGENT PRIOR TO INSTALLATION

PROVIDE MINIMUM COVER OF 5 FEET ABOVE TOP OF PIPE WHERE PIPE CROSSES BENEATH PAVED AREAS SUCH AS STREETS AND DRIVEWAYS AND A MINIMUM COVER OF 4 FEET IN UNPAVED AREAS.

SANITARY SEWER INSTALLATION SHALL NOT START UNTIL MASS GRADING HAS BEEN COMPLETED PIPE SHALL BE LAID AT A CONSTANT PITCH ON A STRAIGHT LINE FROM MANHOLE TO MANHOLE, CURVILINEAR SANITARY SEWERS OR SEWERS WITH DEFLECTED PIPES ARE PROHIBITED.

ALL CHANGES IN PIPE MATERIAL, CLASS, SIZE, SLOPE, AND DIRECTION SHALL BE MADE AT A MANHOLE UNLESS APPROVED BY THE DISTRICT. ALL SANITARY SEWERS SHALL BE CONSTRUCTED WITH THE USE OF A PIPE LASER. ALL SANTARY SEWER SERVICES SHALL BE SDR 26 WITH A MINIMUM INSIDE DIAMETER OF SIX-INCHES (6) WHEN INSTALLED CONCURRENT WITH MAIN INSTALLATIONS.

SANITARY SEWER SERVICES SHALL BE INSTALLED AT A MINIMUM SLOPE OF IX (I/B' PER FOOT) FOR 6'DIAMETER SERVICES OR 2% (I/A' PER FOOT) FOR 4' DIAMETER SERVICES.

PLACE THE BUILDING SEWER PIPE/SERVICE ON A LAYER OF WASHED STONE CONFORMING TO IBOT CRADATION CA 7. PROVIDE A MINIBULA THICKNESS OF FOUR 141 NICHES UNDER THE PIPE BARREL AND TWO (2) NICHES UNDER BELLS, CABEFULLY PLACE AND COMPACT AROUND THE PIPE TO PROVIDE UNFORM SUPPORT TO THE BOTTOM GUADRANT, BACKFLL PVC PLASTO, PPE WITH BEDONG MATERIAL TO ONE OFFOOT ABOVE TOP OF PIPE AND COMPACT IT PER THE DIRECTION OF THE DISTRICT.

FOLLOWING PLACEMENT OF PIPE AND INSPECTION OF JOINTS, PROVIDE COMPACTED GRANULAR PIPE BEDDING AND COVER MATERIAL FOR THE FULL WIDTH OF THE TRENCH TO THE FOLLOWING LEVELS UNLESS OTHERWISE SHOWN ON THE FRANKING.

FOR PIPE SIZES 24-INCH AND SMALLER, EXCEPT FLEXIBLE THERMOPLASTIC PIPE: TO 4 INCHES ABOVE THE TOP OF THE PIPE. FOR PIPE SIZES 27-INCH AND LARGER, EXCEPT FLEXIBLE THERMOPLASTIC PIPE: TO THE HORIZONTAL CENTERLINE (SPRINGLINE) OF THE PIPE.

FOR FLEXIBLE THERMOPLASTIC PIPES, INCLUDING PVC PLASTIC PIPE, AND OTHER FLEXIBLE TYPE PIPE: TO 12 INCHES ABOVE THE TOP OF THE PIPE.

MANDREL DEFLECTION TESTING OF ALL FLEXIBLE PIPE SHALL NOT COMMENCE PRIOR TO 30 DAYS AFTER THE INSTALLATION OF THE LAST SECTION OF PIPE.

THE FULL LENGTH OF ALL SANITARY SEWERS SHALL BE TESTED AS SPECIFIED IN DIVISION 3, SECTION 31 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PAVEMENT REPLACEMENT:

PAYEMENT REPLACEMENT SHALL DEPEND ON THE MAKE UP OF THE EXISTING PAYEMENT STRUCTURE AND BE IN ACCORDANCE WITH THE CITY OF DEKALB REQUIREMENTS FOR THE PAYEMENT IN QUESTION (SEE DISTRICT'S STANDARD DRAWINGS).

STEEL CASING PIPE

STEEL CASING PIPE SHALL BE A MINIMUM OF 24 DIAMETER, SHALL HAVE A MINIMUM WALL THICKNESS OF 1/3 AND SHALL BE STEEL CONFORMING TO ASTM A-753, TYPE S, CRADE B, IT SHALL HAVE A IS MIL BITUMHOUS COATING INSUE OF AND OUT OF CASTING PIPE. THICKNESS SHALL BE AS REQUIRED TO RESIST ALL CAGAS INCLUDED, BUT NOT LIMITED TO SOIL, STRUCTURES, VEHICLE DEAD LOADS, AS WELL AS VEHICLE LIVE LOADS AND LIVE LOADS SHORTHAGES.

CARRIER PIPE SHALL BE CENTERED WITHIN A CASING BY USE OF STAINLESS STEEL CASING SPACERS AS SHOWN ON THE PLANS, CENTER-TO-CENTER DIMENSIONS ARE TO BE PER THE DETAIL PROVIDED. ACCEPTABLE MANUFACTURER: CASCADE WATERWORKS MANUFACTURING, CO - YORKVILLE, ILLINOIS - MODEL CCS, OR ACCEPTABLE ALTERNATIVE.

ALL WELDS AND METAL SURFACES SHALL BE CHEMICALLY PASSIVATED.

ENDS OF ALL CASING PIPES SHALL BE SEALED WITH A PREFABRICATED END SEAL CONSTRUCTED FROM VIRGIN SBR WITH T-305 STAINLESS STEEL BANDS, CASCADE MODEL CCESS WITH STAINLESS STEEL BANDS OR APPROVED EQUAL

NO MORE THAN 3 INCHES LATERAL AND ENCH VERTICAL DEVIATION FROM THE THEORETICAL ALIGNMENT SHALL BE PERMITTED IN THE POSITION OF THE COMPLETED SEWER PIPE AT ANY POINT ALONG THE ALIGNMENT.

DUCTLE IRON PIPES AND FITTINGS

PROTECT PIPE AND FITTINGS INSTALLED IN CORROSIVE SOILS CONTAINING CINDERS OR HAVING A HICH ORGANIC CONTENT BY LOOSE WRAPPING WITH POLYETHYLENE SHEET.

PLACE POLYETHYLENE SHEET AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE, THE OR TAPE SHEET SECURELY TO PREVENT DISPLACEMENT DURING BACKFILLING.

COMPLY WITH ANSIZAWWA A2L5-93/CIO5 REGARDING INSTALLATION OF POLYETHYLENE PROTECTION

MATERIALS 4-MCH SIZE THROUGH 24-MCH; USE DUCTILE IRON, PVC PLASTIC, OR HOPE PIPES.

PROVIDE COAL TAR ENAMEL OR OTHER SUITABLE COATING WILL BE SPECIFIED BY THE ENGINEER TO PROTECT INTERNAL GRAVETER FROM CORROSION WHEN EXTERNAL CORROSON RESISTANCE IS REQUIRED, THE POLYETHYLENE ENCASEMENT CONFORMING TO ANSIC-105 ALS-93 SHALL BE USED.

USE DUCTILE IRON FITTINGS WITH MECHANICAL JOINT COMPLYING WITH ANSIAZIJO OR AZL53.

BOLTS AND NUTS

USE CORTEN BOLTS AND NUTS.

USE A-304 STAINLESS STEEL BOLTS WITH NUTS AND WASHERS OF SERIES 300 STAINLESS STEEL PER ASTM A194.

PROVIDE RESTRAINED JOINT TYPE FITTINGS THAT ARE COMPATIBLE WITH SYSTEM UTILIZED, AS SPECIFIED BY THE PIPE MANUFACTURER,

ACCEPTABLE PRODUCTS:

AMERICAN FASTITE, FLEX-RNG, LOK-RING, AND MJ COUPLED JOINT. CLOW TYTON JOINT - TYPE A OR TYPE B, AND SUPER-LOCK. U.S. PIPE TR-FLEX GRIPPER.

PROVIDE RIVER CROSSING PIPE WHERE INDICATED ON THE DRAWINGS.

PROVIDE BALL AND SOCKET TYPE JOINTS.

AMERICAN FLEX-LOK BALL JOINT PIPE. CLOW BALL AND SOCKET PIPE.

US PIPE USIFLEX PIPE.

THE FOLLOWING INFORMATION WLL BE CLEARLY MARKED ON THE PIPE AT MINIMUM INCREMENTS OF 2 FEET ALONG ITS LENGTH:

MIN. FILM THICKNESS AND MATERIAL TYPE (LLDPE OR HDCLPE).

APPLICABLE RANGE OF NOMINAL PIPE DIAMETER SIZE(S).

ALL TRACER WIRE SPLICE TO LOCATIONS SHALL BE MADE WITH SUITABLE ELECTRICAL CONNECTION DEVICES OR ELECTRICAL WIRE CONNECTORS SIMILAR TO THE FOLLOWING TYPES:

IDEAL TWISTER DB PLUS WIRE CONNECTOR WITH NON-HARDENING SEALANT THOMAS E BETTS BUILT SPLICE WITH HEAT SHRINK TUBING ILSO CABLE SPLICES WITH HEAT SHRINK TUBING ILSO CONNECTORS AND SUITABLE ELECTRICAL TAPE FOR UNDERGROUND INSTALLATION, 3M SCOTCH-LOX CONNECTORS.

DUCT TAPING OR USE OF OTHER METHODS TO ATTACH THE TRACER WIRE TO THE TOP OF THE PIPE SHOULD BE APPLIED AROUND ENTIRE DIAMETER OF PIPE AT INTERVALS OF NOT MORE THAN 60 FEET.

NOT AVAILABLE/AT OWN RISK, MEANS THE SANITARY SEWERS FOR THIS DEVELOPMENTHAVE NOT BEEN APPROVED FOR USE AND MAY BE ISOLATED FROM THE DISTRICT'S ACTIVE (LIVE) SANITARY SEWER SYSTEM.
1) THE DISCHARGE OF ANY WASTEWAITER TO THIS SYSTEM IS LLEGAL AND NOT PERMITTED, ZUINILL THIS SEWER SYSTEM IS COMPLETED (AND PROTECTED FROM DAMAGE) THAY ACCUMULATE STORM AND/OR CROUND WATER,
IT IS THE DEVELOPER'S RESPONSIBILITY TO MONITOR WATER LEVELS AND PUMP OUT THIS SYSTEM AS THE OWNER DEEMS NECESSARY, THE DISCHARGE FROM THE ABOVE "PUMP OUT OPERATION IS NOT TO BE
OFFECTED NITO ANY SANITARY SEWER, 3) SOLATION PLUG 'NY MEANS A PLUG IS INSTALLED, TAMPERING WITH OR REMOVAL OF AN ISOLATION DEVICE MAY RESULT IN TYPES, LECAL ACTION, AND/OR INMEDIATE ARREST,

MANHOLE FRAMES AND LDS - FINAL CONDITION ON MANY OCCASIONS, MANHOLE FRAMES ARE DAMAGED OR DISLOGED BY CONSTRUCTION EQUIPMENT OR SNOW PLOWS PRIOR TO INSTALLATION OF THE FINAL ROAD SURFACE, INADEQUATE RAMPING AND/OR ACTUAL BINDER SETTLEMENT ARE THE USUAL CULPRITS, MANHOLE FRAMES AND LIDS WILL BE RE-INSPECTED FOR DAMAGE AFTER APPLICATION OF THE FINAL ROAD SURFACE, ANY DEFICIENCIES SHALL BE RECTIFED. BECAUSE OF THE POTENTIAL FOR EXTENDED PERIODS OF TIME BETWEEN SYSTEM ACCEPTANCE FOR SERVICE O-YEAR WARRANTY BEGINS) AND FINAL ROAD SURFACE, FRAME AND LID ISSUES MAY NOT BE SUBJECT TO THE HYEAR WARRANTY PERIOD.

TESTS AND REQUIREMENTS (MANHOLES AND PIPES FREE FROM ANY BREAKAGE. LEAKAGE MISALIGNMENT AND/OR DEBRIS):

NOT AVAILABLE

6| MANHOLES AND PIPES FREE FROM BREAKAGE. LEAKAGE MISALIGNMENT AND/OR DEBRIS.
(CCTY SEWER INSPECTION IS REQUIRED IF CONDITIONS WARRANT.)
(RECORD DRAWIMS (ACCEPTABLE FORMAT) RECEIVED.
RECORD TRAWINGS (ACCEPTABLE FORMAT) RECEIVED.
RECORD TRAWINGS (ACCEPTABLE FORMAT) RECEIVED BY THE DISTRICT.
RECORD TRAWING TRAWING FOR THE PUBLIC PORTION 5 ANNITARY SEWER RECEIVED BY THE DISTRICT.
WHITTER TRAWING FROM THE EVENT FOR THE SEWER AVAILABLE FOR USE (ITEMS 1-8 COMPLETE).
ALL DRD. 450 FEES HAVE. BELL FAID TO THE DEKALE SANITARY DISTRICT
(FROJECT FLAN REVIEW. ADMINISTRATION AND INSPECTION).

1 2 3 4 5d 5b 6 7 8 9 IO

> Sheet 144 87476

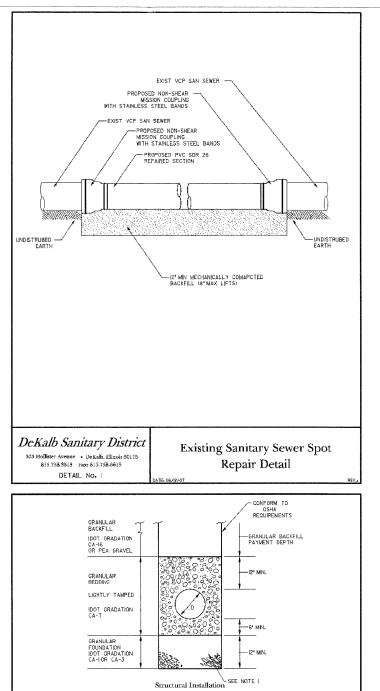
> > Issue Date: Sheet Number

THIS DRAWING SHALL NOT BE USED, REPRODUCED, MODIFIED OR SOLD EITHER WHOLLY OR N PART, EXCEPT WHEN AUTHORIZED IN WRITING BY THE DEKALB SANITARY DISTRICT.

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Standard Sanitary Sewer Construction Details DeKalb, Illinois

'THIS PROJECT'



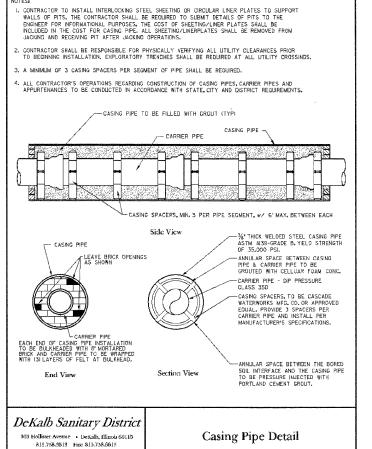
CONFORM TO OSHA REQUIREMENTS

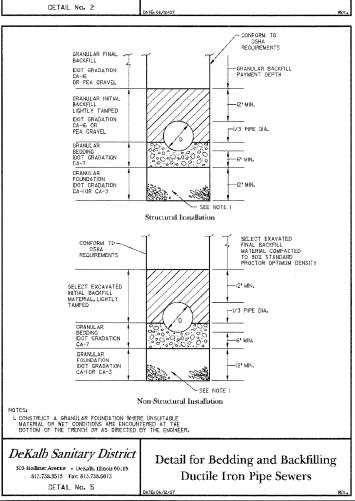
ILESS
I. CONSTRUCT A GRANULAR FOUNDATION WHERE UNSUITABLE
MATERIAL OR WET CONDITIONS ARE ENCOUNTERED AT THE
BOTTOM OF THE TRENCH OR AS DIRECTED BY THE ENGINEER.

DeKalb Sanitary District

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DETAIL No. 4





COMPACTED GRANULAR -BACKFILL, SEE NOTE No. 2 -PROPOSED SANITARY SEWER I. ALL CONNECTIONS SHALL BE MADE WITH NON SHEAR MISSION COUPLING WITH STAINLESS STEEL BANDS, FERNCO OR APPROVED EQUAL. COMPACT GRANULAR BACKFILL, IN 8' LIFTS, BENEATH FIELD TILE LINE TO 95% STANDARD PROCTOR DENSITY THE COST OF GRANULAR BACKFILL AND MECHANICAL COMPACTION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF FELD TILE REPLACEMENT. DeKalb Sanitary District Replacement of Field Tile 303 Hollister Avenue - DeKalb, Illinois 60115 815.758.3513 Fax: 815.758.6615 Lines Detail DETAIL No. 3

TERMINOLOGY, DIMENSIONS AND TYPE OF SELECT MATERIAL, WHEN REQUIRED. WIDTH OF PERMANENT PAVEMENT REMOVAL & REPLACEMENT FOR PAYMENT PURPOSES IDENTIFICATION OF WHERE SELECT GRANULAR MATERIAL IF REQUIRED EXISTING SURFACE -*ALL CONDUITS LOCATED UNDER OR WITHIN 2' OF EXISTING OR FUTURE A-07, CA-09, CA-II, CA-IS, CA or FA-05, FA-06, FA-10 PAVED AREAS INCLUDE STREETS, CURBS, GUTTERS SHOULDERS AND SIDEWALKS ALL NON RIGID CONDUITS AND *RIGID CONDUITS UNDER OR WITHIN 2' OF EXISTING OF PAVED AREAS, NITIAL BACKFILL LL NON RIGID CONDUITS, AND ALL SEWERS, IGID WATER MAINS AND FORCEMAINS WITHIN 2' OF EXISTING OF FUTURE PAYED AREAS, HAUNGHING WHERE SOIL CONDITIONS WARRANT,** FOUNDATION 8" ALLOWANCE FOR TRENCH 2'40.0 MINHUM
SHORING, BRACING OR BOX.
TYPICAL BOTH SIDES, 3'40.0, MAXIMUM MINDICATES ELIGIBLE FOR PAYMENT AS SELECT GRANULAR BACKFILL OTHERWISE INCIDENTAL TO THE PIPE. **INDICATES ELIGIBLE FOR PAYMENT AS SELECT FOUNDATION MATERIAL. NON RIGID CONDUITS ARE DEFINED AS FLEXIBLE THERMOPLASTIC PIPE AND/OR CORRUGATED METAL PIPE. DeKalb Sanitary District Typical Detail of 303 Hollister Avenue • DcKalb, Illinois 60115 815,738,3513 Fax: 815,738,6615

DETAIL No. 6

Conduit Installation

DeKalb Sanitary District

Non-Structural Installation

SELECT EXAVATED
FINAL BACKFILL
MATERIAL COMPACTED
TO 80% STANDARD
PROCTOR OPTIMINATES

-12" MIN.

-6' MIN.

Detail for Bedding and Backfilling

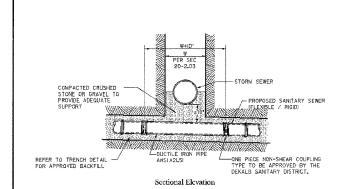
Polyvinyl Chloride (PVC) Sewers

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Standard Sanitary Sewer Construction Details DeKalb, Illinois

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DUCTILE IRON PIPE SHALL BE REQUIRED WHEN THE BOTTOM OF THE STORM SEWER IS WITHIN IR OF THE TOP OF THE SANITARY SEWER. UNDER NO CIRCUMSTANCES SHALL THE STORM. SEWER BE SUPPORTED BY THE SANITARY LINE.

Vertical Seperation

DeKalb Sanitary District

DETAIL No. 7

Sanitary Sewer at Storm Sewer Crossing Detail

PROPOSED SEWER (OR WATER) IS LOCATED TO FEET OR MORE FROM EXISTING WATER (OR SEWER). PLAN VIEW $\begin{array}{c} \underline{\text{PROPOSED}} \ \ \underline{\text{SEWER}} \ \ \text{OR} \ \ \text{WATER} \ \text{IS} \ \ \text{LO}\underline{\text{CATED}} \ \ \underline{\text{LESS}} \ \ \underline{\text{THA}} \text{N} \ \ \text{IO} \ \ \text{FEET} \ \ \text{FROM} \\ \underline{\text{EXISTING}} \ \ \text{WATER} \ \ \text{OR} \ \ \text{SEWER}. \end{array}$ WATERLINE EXISTING OR PROPOSED -UNDISTURBED EARTH Horizontal Seperation

DeKalb Sanitary District 303 Hollister Avenue - DeKalb, Hinois 60115 815,758,3319 Fax: 815,758,6615 DETAIL No. II

Horizontal Water and Sewer Separation Requirement - Detail

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NOTES:

DeKalb Sanitary District

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DETAIL No. 8

PROVIDE CLEANOUT — 2' TO 5' FROM EDGE OF THE BUILDING

PROP. SANITARY SERVICE SEWER-(SIZE AND TYPE AS PER PLAN)

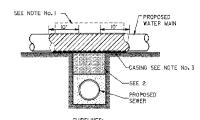
ALL PIPE SHALL CONFORM TO LOCAL EQUIREMENTS FOR PIPE MATERIALS AND INSTALLATION, SUITEBLE "NO-SHEAR" ADAPTER COUPLING (FERNCO OR APPROVED EQUIAL) SHALL BE USED WHEN CONNECTION TO DISSIMILAR PIPE MATERIAL OR SIZES.

DeKalb Sanitary District 303 Hollister Avenue - DcKalb, Illinois 80115 815.758.3313 Fax: 815.758.6615 DETAIL No. 12

Sanitary Sewer Service Detail

PROPOSED WATER MAIN ABOVE PROPOSED SEWER LINE WITH LESS THAN IS MINIMUM SEPARATION.

95% OF STANDARD PROCTOR MAXIMUM DENSITY.



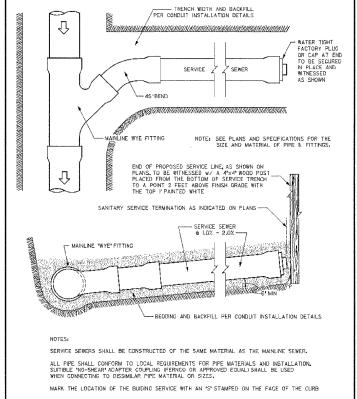
- OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE UDFOOT OVER THE TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL CLASS WY AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
- IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
- 3. USE A CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
- POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER NAIN CASING AND SEWER.

Vertical Separation

DeKalb Sanitary District

Water and Sewer Separation Requirement - Detail

DETAIL No. 9



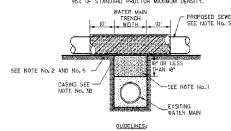
DeKalb Sanitary District

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Sanitary Sewer Service Lateral Detail

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH LESS THAN 18" MINIMUM SEPARATION. EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH IS MINIMUM SEPARATION

NOTE: CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.



- IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
- EXCAVATED MATERIAL (CLASS IV) AND COMPACT,

 OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE

 OF FOOT OVER THE TOP OF PIPE AND USE SELECT EXCAVATED

 MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE

 OF WATER MAIN.

 A PROPOSED SEWER CONSTRUCTED OF WATER MAIN MATERIAL (ACROSS

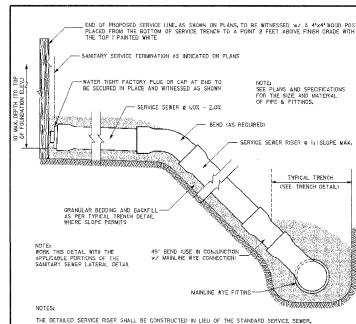
 WATER MAIN TRENCH FLUS 10 FT, EACH SIDE) AND PRESSURE TEST, OR;
- BI PROVIDE CASING FOR PROPOSED SEWER, TO EXTEND ID FT, EACH SIDE OF WATER MAIN TRENCH AND SEAL ENDS OF CASING.
- POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

Vertical Seperation

DeKalb Sanitary District

DETAIL No. 10

Water and Sewer Separation Requirement - Detail



THE DETAILED SERVICE RISER SHALL BE CONSTRUCTED IN LIEU OF THE STANDARD SERVICE SEWER, WHEN THE DEPTH OF THE PROPOSED SEWER SHALL EXCEED 12 FEET.

WHEN PLACED AT A SLOPE UNABLE TO SECURE THE REQUIRED BEDDING, THE RISER SHALL BE PLACED ON UNDISTURBED EARTH, SHAPED TO PROVIDE UNIFORM BEARING FOR $\, rac{1}{4} \,$ OF THE PIPE BARREL CIRCUMFERENCE. SERVICE RISERS AND ALL ASSOCIATED FITTINGS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE MAINLINE SEWER, UNLESS GIBERWISE SPECFED.

ALL PIPE SHALL CONFORM TO LOCAL REQUIREMENTS FOR PIPE MATERIALS AND INSTALLATION. SUTHELE "NO-SHEAR" ADAPTER COUPLING HERMICO OR APPROVED EQUAL) SHALL BE USED WHEN CONNECTING TO DISSUALLA PIPE MATERIAL OR SIZE.

MARK THE LOCATION OF THE BUILDING SERVICE WITH AN 'S' STAMPED ON THE FACE OF THE CURB

DeKalb Sanitary District

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Sanitary Sewer Service Riser Detail

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Standard Sanitary Sewer Construction Details

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PROPOSED WATER MAIN ABOVE PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION.

Vertical Seperation

Water and Sewer Separation

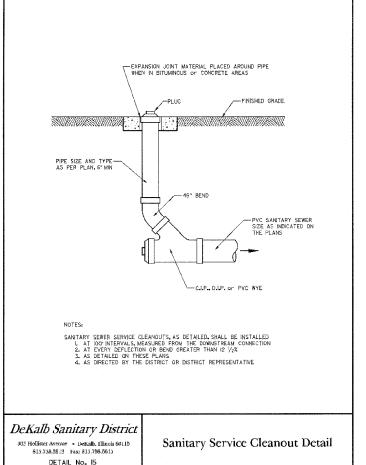
Requirement - Detail

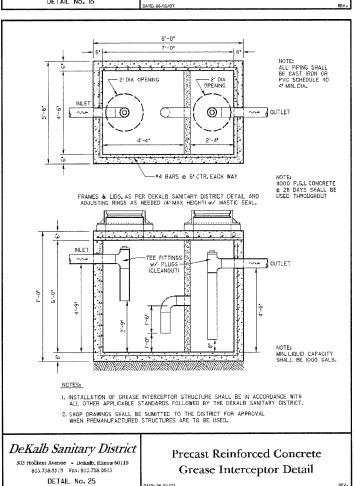
WITH AN "S' STAMPED ON THE CURE FACE

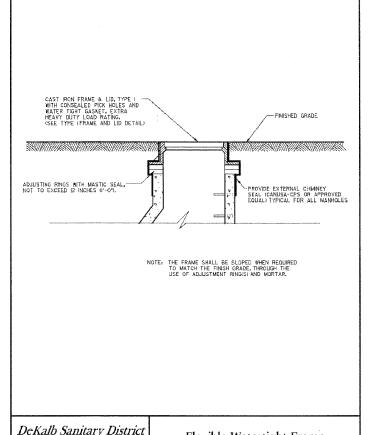
- PROPOSED SANITARY SEWER SERVICE

NOTE: CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY

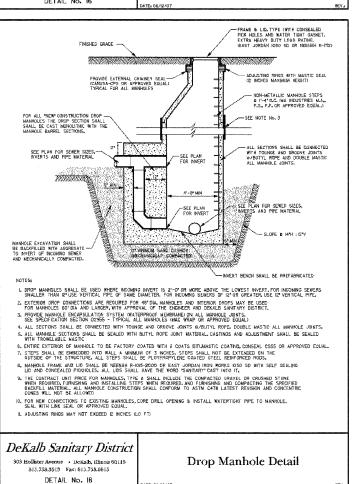
DeKalb, Illinois

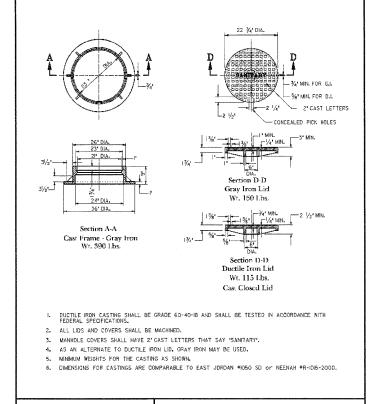






Flexible Watertight Frame 303 Hollister Avenue • DeKalb, Illinois 60115 815.758.3513 Fax: 815.758.6615 Chimney Seal Detail DETAIL No. 16

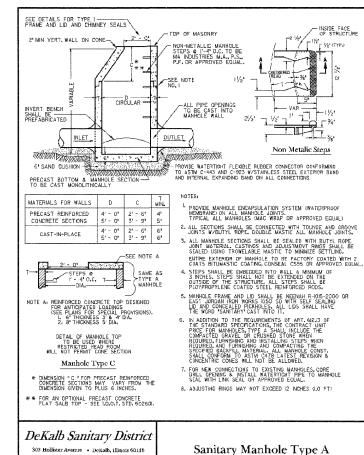




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Frame and Lid Detail

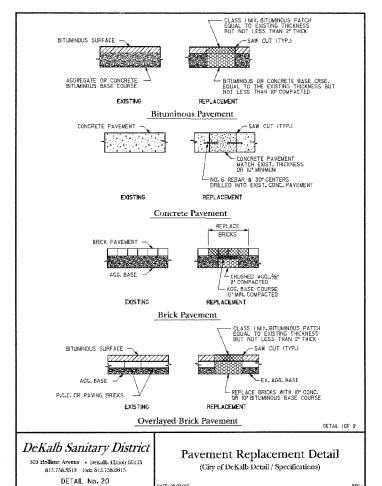


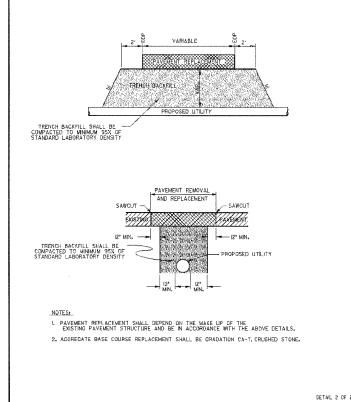
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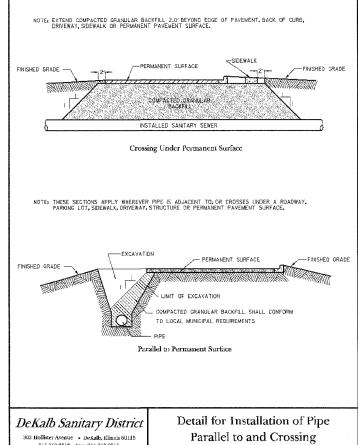
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DETAIL No. 19







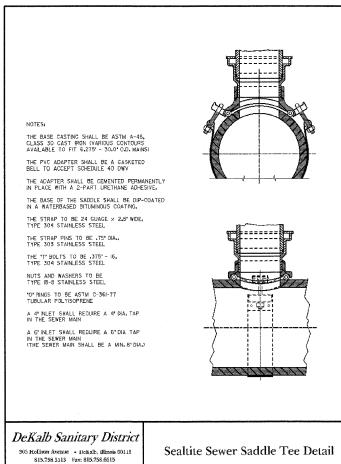
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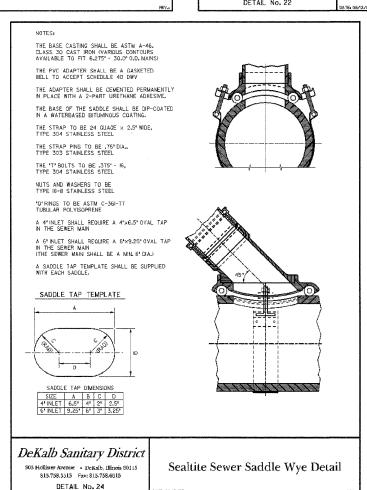
DETAIL No. 21

Pavement Replacement Detail (City of DeKalb Detail / Specifications)

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Under Permanent Surface





Sealtite Sewer Saddle Tee Detail DETAIL No. 23

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Standard Sanitary Sewer Construction Details DeKalb, Illinois

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