1559 PPS
SWS

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School

GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

STORM SEWER
CITY OF WICHITA PRIVATE PROJECT NO.1559 PPS (607861)

JIM L. ARMOUR, P.E.-CITY ENGINEER

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____

STORM SEWERS VRH 7/18/05

DRIVEWAY APPROACHES _____

PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM CONTRACTED BY THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR UNTIL SUCH INSPECTION IS ARRANGED FOR AND REQUIRED BONDS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CITY NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER. IMPROVEMENTS PERFORMED UNDER THIS PROJECDT SHALL NOT BE ACCEPTED BY THE CITY UNTIL ALL APPLICABLE DOCUMENTATION HAS BEEN SUBMITTED TO THE CITY ENGINEER. THIS MAY INCLUDE: RECORD DRAWINGS, INSPECTION LOGS, TEST DOCUMENTATION, TV TAPES, AND A CERTIFICATE OF COMPLETION. THE ABOVE SHALL BE PERFORMED BY THE CONSULTING FIRM CONTRACTED TO INSPECT THIS PROJECT.

GENERAL NOTE:
PROVIDE ALL MATERIALS IN ACCORDANCE WITH
CITY OF WICHITA SPECIFICATIONS.

STORM SEWER PER PLANS 7-7-06 RDP

LOCATION MAP

REVISION	DATE	BY

DOUGLAS GLENN DANIELS
LICENSED
15583
7/18/05
KANSAS
PROFESSIONAL ENGINEER

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	JLL
DRAWN	DFP
DATE	MAY 2005
FILE NO.	X4-420-078

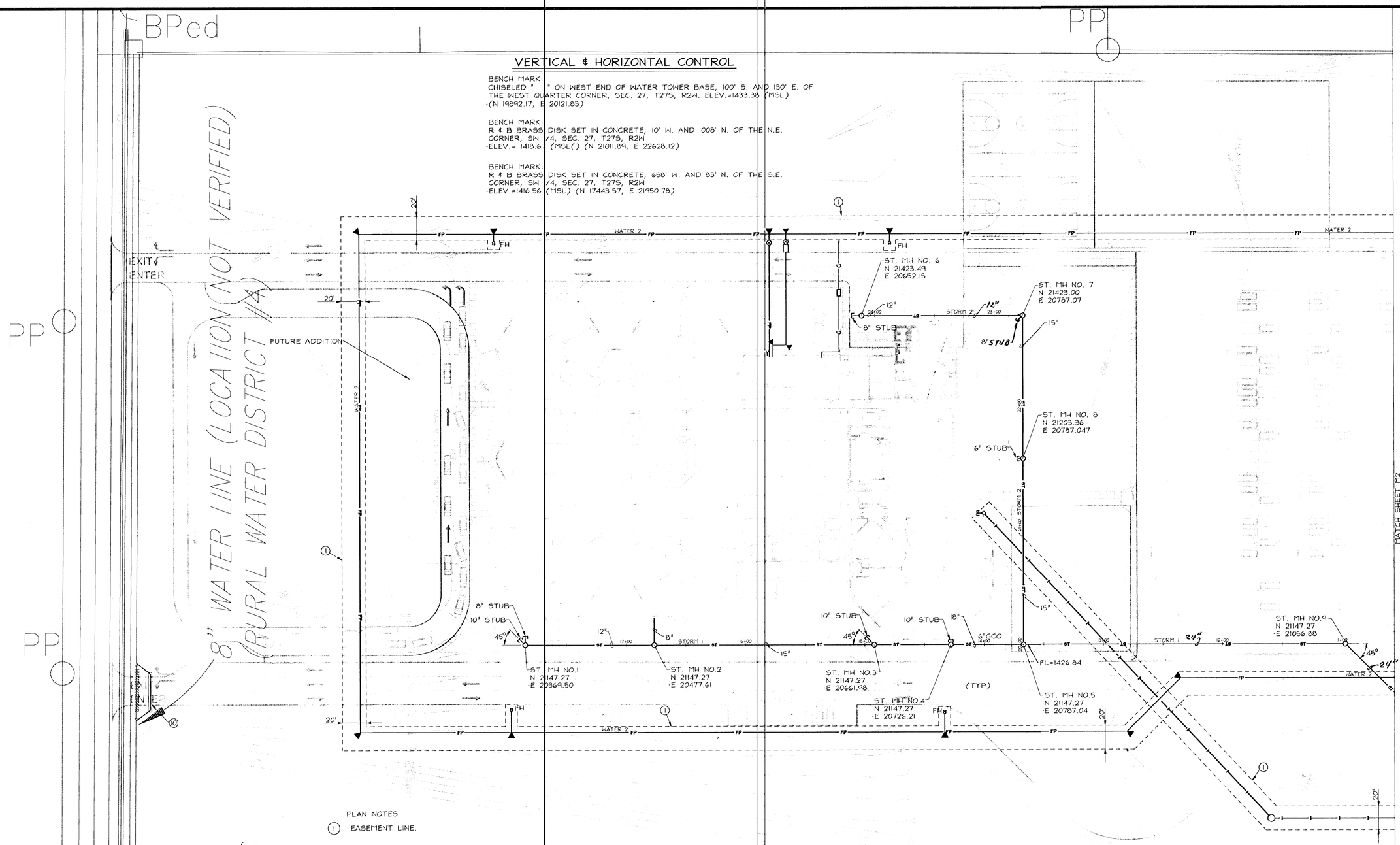
SHEET NO.
M01

VERTICAL & HORIZONTAL CONTROL

BENCH MARK:
CHISELED " " ON WEST END OF WATER TOWER BASE, 100' S. AND 130' E. OF THE WEST QUARTER CORNER, SEC. 27, T27S, R2W. ELEV.=1433.38 (MSL)
-(N 19842.17, E 20121.83)

BENCH MARK:
R & B BRASS DISK SET IN CONCRETE, 10' W. AND 1008' N. OF THE N.E. CORNER, SW 1/4, SEC. 27, T27S, R2W
-ELEV.= 1418.67 (MSL() (N 21011.89, E 22628.12)

BENCH MARK:
R & B BRASS DISK SET IN CONCRETE, 658' W. AND 83' N. OF THE S.E. CORNER, SW 1/4, SEC. 27, T27S, R2W
-ELEV.=1416.56 (MSL) (N 17443.57, E 21950.78)



PLAN NOTES
(1) EASEMENT LINE.

NORTH

UTILITIES SITE PLAN
SCALE: 1" = 40'-0"

GENERAL NOTES:
1. VERIFY ALL MANHOLE RIM ELEVATIONS AND EXTEND AS REQUIRED. EXTEND MANHOLES IN LOW AREAS 1'-0" MIN. ABOVE GRADE.

REVISION	DATE	BY

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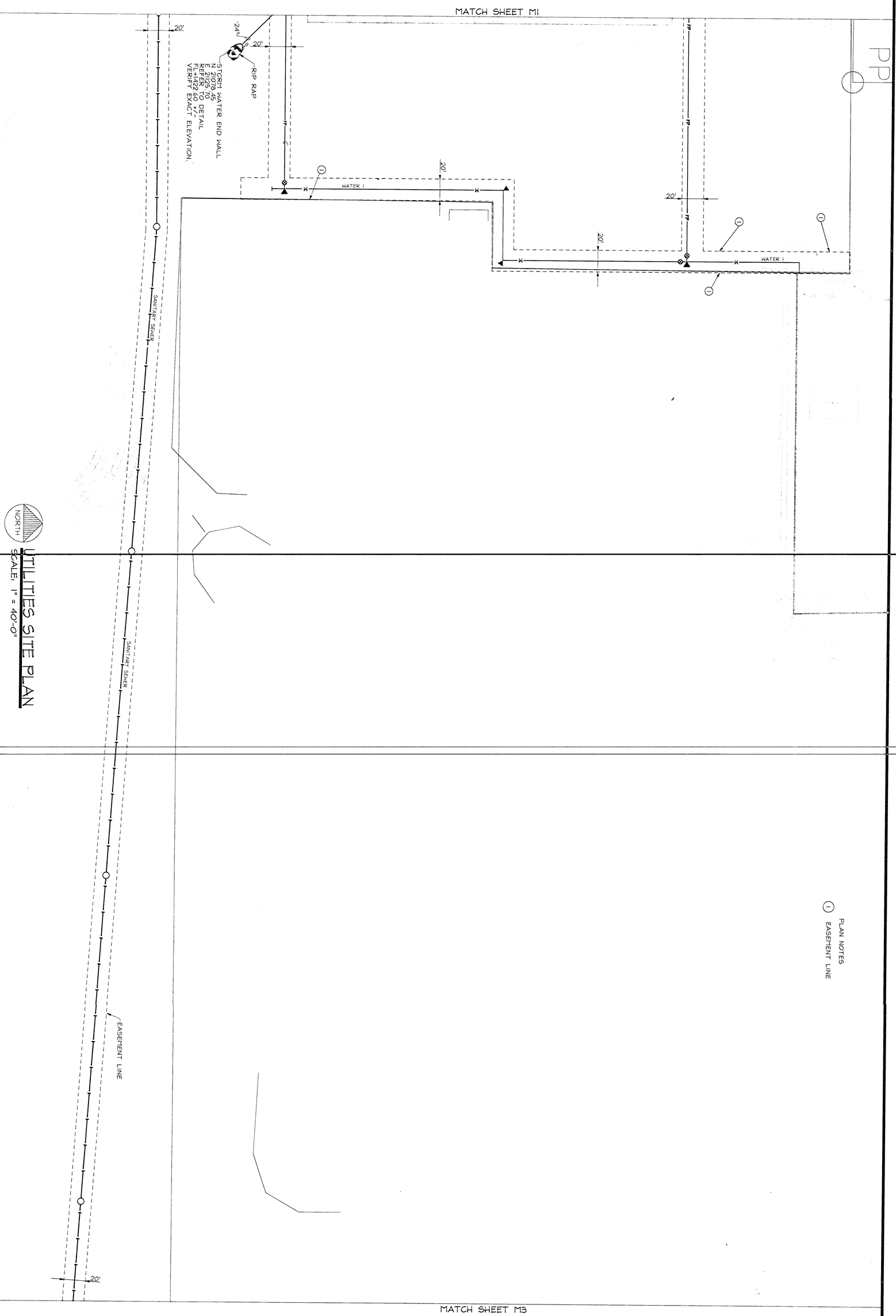
DESIGN	JLL
DRAWN	DFP
DATE	JUNE 2005
FILE NO.	X4-420-078

SHEET NO.
M1



SHEET NO.	FILE NO.	DATE	DRAWN	DESIGN
M2	X4-420-078	JUNE 2005	DFP	JLL

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JASON GLENN LEHMKUHL 15583 PROFESSIONAL ENGINEER KANSAS 7/1/05

REVISION	DATE	BY

1559 PPS

MATCH SHEET M2

BM □

SANITARY SEWER

20'

EXISTING 20' EASEMENT LINE

SSM.H.
RIM 1417.51
FL. W 1403.31
FL. E 1407.32

SS

SS M.H.
RIM 1419.40
FL. W 1407.91

NORTH

UTILITIES SITE PLAN

SCALE: 1" = 40'-0"

REVISION	DATE	BY

GLENN D. ANNEN
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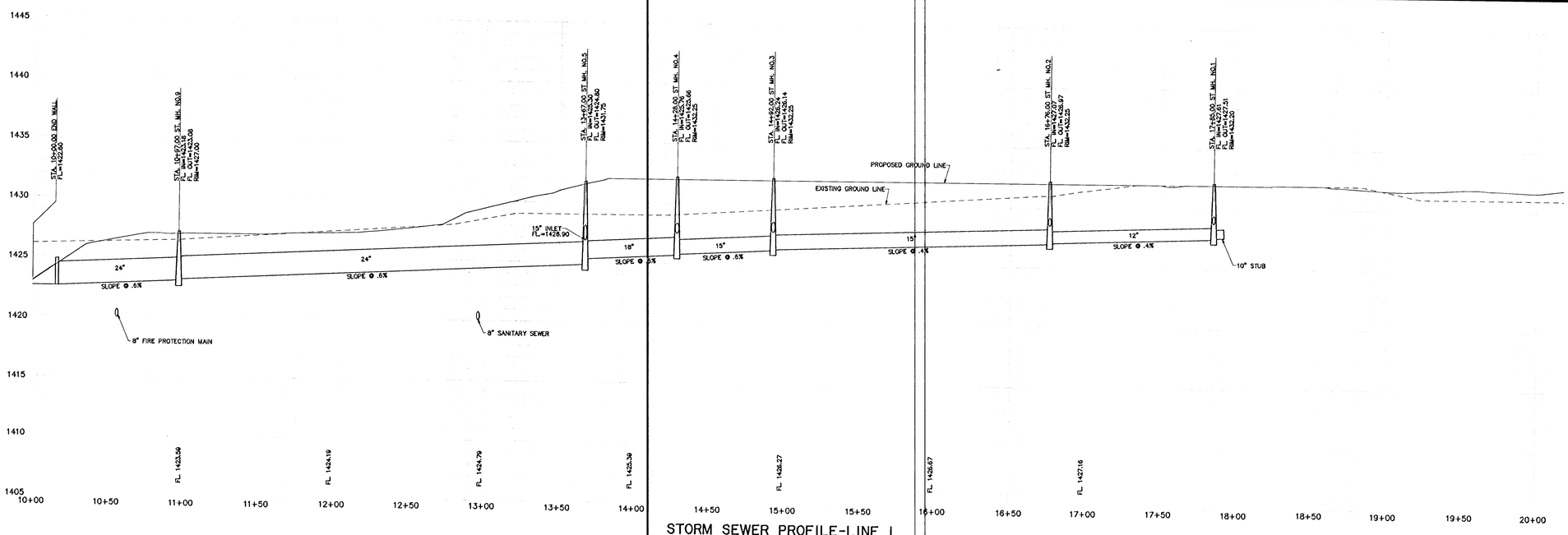
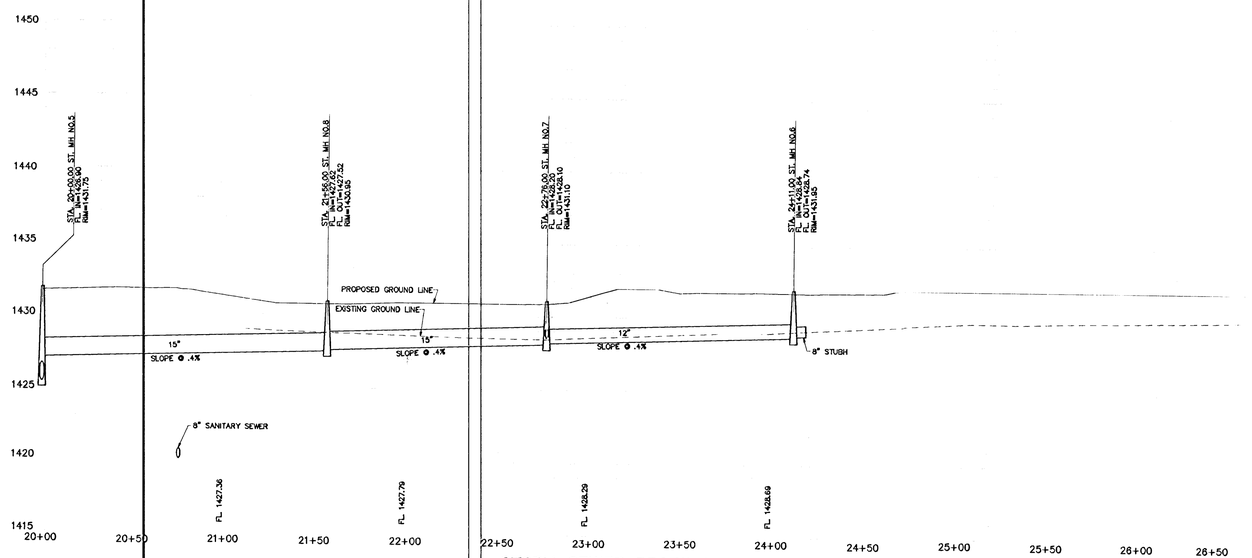
SHEET NO.
M3



STORM SEWER PROFILE-LINE 1

SCALE:
1"=40' HORIZ.
1"=5' VERT.



STORM SEWER PROFILE-LINE 2

SCALE:
1"=40' HORIZ.
1"=5' VERT.

REVISION	DATE	BY

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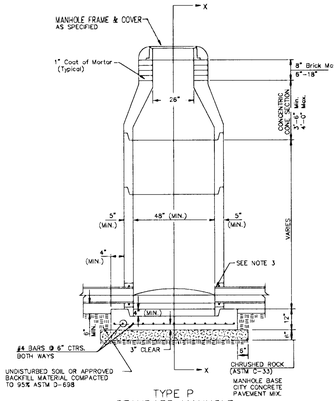
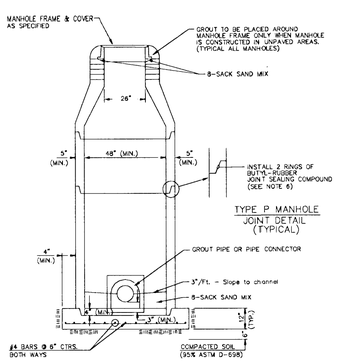
SHEET NO.
M4

SEWER APPURTENANCES DETAILS



TYPE P
STANDARD MANHOLE



SECTION X
(TYPICAL)

GENERAL NOTES

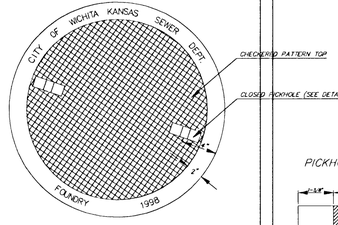
PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FLOW OTHER TYPES OF PIPE SHALL BE CONNECTED TO THE MANHOLE WITH A PIPE GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH 1" CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS THEMEC SERIES 68 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 9" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. PIPE CONNECTOR GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NON-SHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATERTIGHT. ALL COSTS FOR FURNISHING AND INSTALLING PIPE GROUT, FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING, THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE. THE FLOW CHANNELS THROUGH THE MANHOLE BASE SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS THROUGH INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT TO THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. THE MANHOLE FLOOR SHALL BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON MANHOLE FRAME AND THE CONCRETE TOP. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 8" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
19. CRUSHED ROCK CONFORMING TO ASTM C-33 WITH A GRADATION OF NO. 57 SHALL BE INSTALLED AT THE BASE OF THE MANHOLE TO A DEPTH OF NO LESS THAN 6", AND SHALL EXTEND NO LESS THAN 6" OUTSIDE THE DIAMETER OF THE CONCRETE FLOOR OF THE MANHOLE.

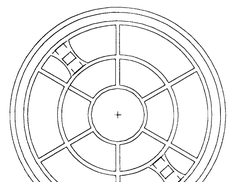
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

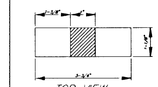


TOP VIEW

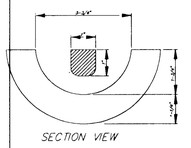


BOTTOM VIEW

PICKHOLE DETAIL

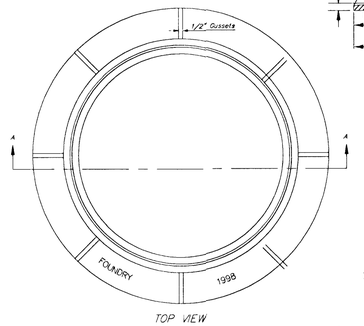


TOP VIEW



SECTION VIEW

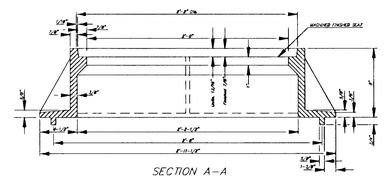
MANHOLE FRAME
Weight = 161 Lbs.



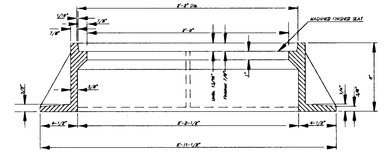
TOP VIEW

GENERAL NOTES

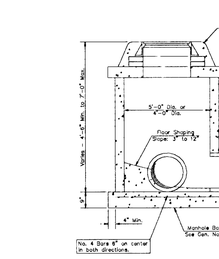
1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, PORPOISE, HARD SPOTS, SHRINKAGE, DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL WEIGH A MINIMUM OF 180 POUNDS ON THE SOLID COVER AND 161 POUNDS ON THE MANHOLE RING. THIS IS A TOTAL OF 400 POUNDS ON A RING AND COVER SET. CASTINGS WEIGHING LESS THAN THE MINIMUM SPECIFICATIONS WILL NOT BE ACCEPTED.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDARY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING THE LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.



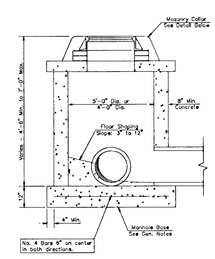
SECTION A-A
MUD RING



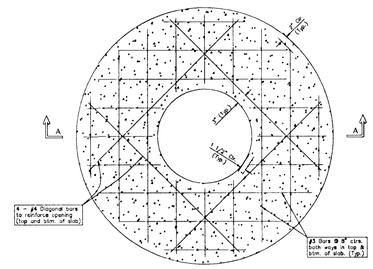
SECTION A-A



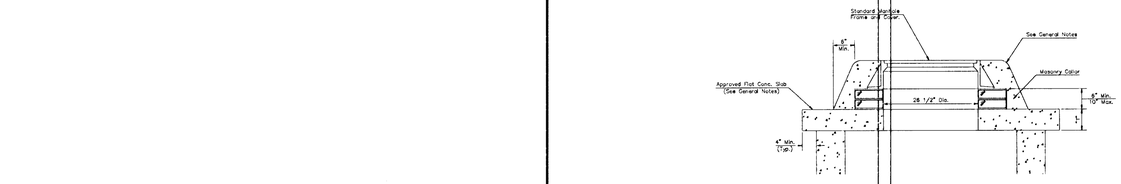
SHALLOW TYPE "P" MANHOLE



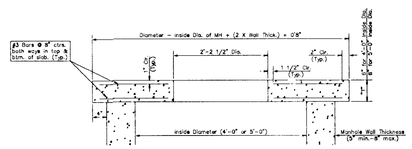
SHALLOW TYPE "C" MANHOLE



PLAN



MASONRY COLLAR DETAIL



SECTION A-A

FLAT CONCRETE SLAB DETAILS

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of manhole bases shall conform to the requirements as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 9" centers in both directions. The manhole base reinforcement shall be placed at least 3" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids can be deposited as sewage flows through the manhole. The flow channels through the manhole base shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot to the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

REVISION	DATE	BY

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1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	JLL
DRAWN	DFP
DATE	JUNE 2005
FILE NO.	X4-420-078

SHEET NO.
M5

NOTES:

1. POINT ELEVATIONS SHOWN AT CONNECTIONS TO EXISTING FACILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY ACTUAL CONNECTION POINTS.

2. SIDEWALKS SHALL NOT HAVE A LONGITUDINAL SLOPE GREATER THAN 5% NOR A TRANSVERSE SLOPE GREATER THAN 2%. PEDESTRIAN RAMPS SHALL NOT HAVE ANY TRAVERSABLE SLOPE GREATER THAN 12:1.

3. TO OBTAIN A SMOOTH PROFILE, 40' VERTICAL CURVES SHALL BE INSERTED AT ANGULAR BREAK POINTS WHERE INDICATED.

4. ALL SIDEWALKS 8' OR GREATER SHALL BE MEDIUM DUTY PORTLAND CEMENT CONCRETE.

5. CONTRACTOR SHALL CONTACT ONE-CALL PRIOR TO ANY SITE CONSTRUCTION WORK ACTIVITIES TO VERIFY ALL EXISTING SITE UTILITIES LOCATIONS. CONTACT ENGINEER FOR ANY AND/OR ALL POTENTIAL CONFLICTS. DO NOT DAMAGE ANY SITE UTILITIES.

6. ALL CURB AND GUTTER SHALL BE CURB & GUTTER (SPILL) UNLESS OTHERWISE SHOWN ON THE PLAN.

7. SEE CIVIL DETAIL SHEETS 1-C2.8 THRU 1-C2.10 FOR ADDITIONAL INFORMATION ON SITE FACILITIES.

8. CONTRACTOR SHALL OBTAIN ALL REQUIRED EARTHWORK BORROW ON-SITE, FROM LOCATIONS APPROVED BY THE OWNER / ARCHITECT. FINAL ELEVATIONS AND GRADES OF THE BORROW AREAS SHALL PROVIDE POSITIVE DRAINAGE AND BE APPROVED BY THE OWNER / ARCHITECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED FOR ALL BORROW AREAS UNLESS DIRECTED OTHERWISE BY THE OWNER / ARCHITECT.

LEGEND:

- CONCRETE
- LIGHT DUTY ASPHALTIC CONCRETE PAVEMENT
- MEDIUM DUTY ASPHALTIC CONCRETE PAVEMENT

KEY MAP
NTS

NEW ELEMENTARY SCHOOL
FF (CIVIL) = 1434.50
FF (ARCH) = 1435.00

GRADING PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'

REVISION	DATE	BY
REV. 5-23-05		

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401
Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings
April 2005

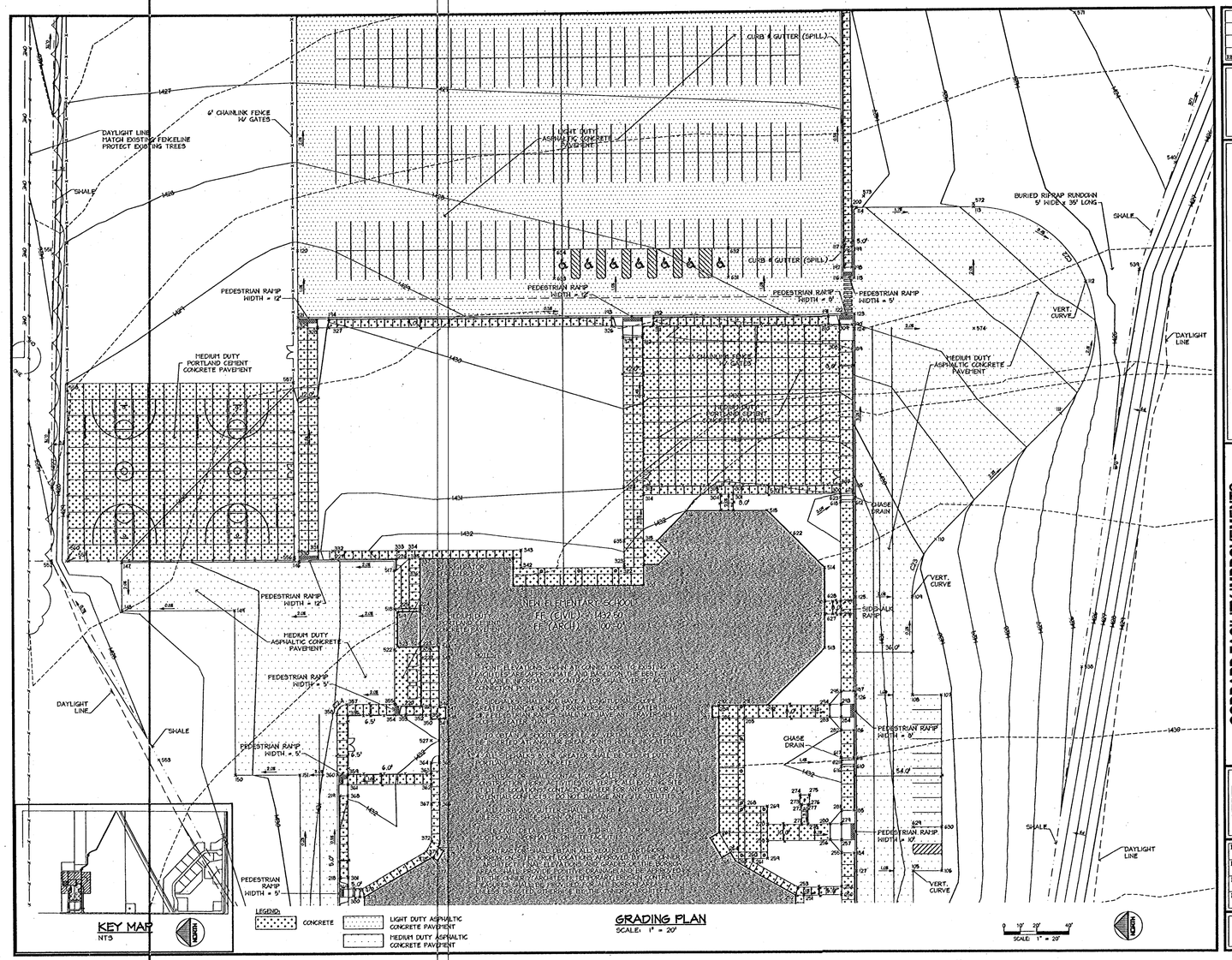
DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078
SHEET NO.	R 1-C2.1

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401
Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078
SHEET NO.	1-C2.1

ABOVE INFORMATION IS 1/2 SCALE.



REV. 5-23-05

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401
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GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings
April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078
SHEET NO.	R 1-C2.2

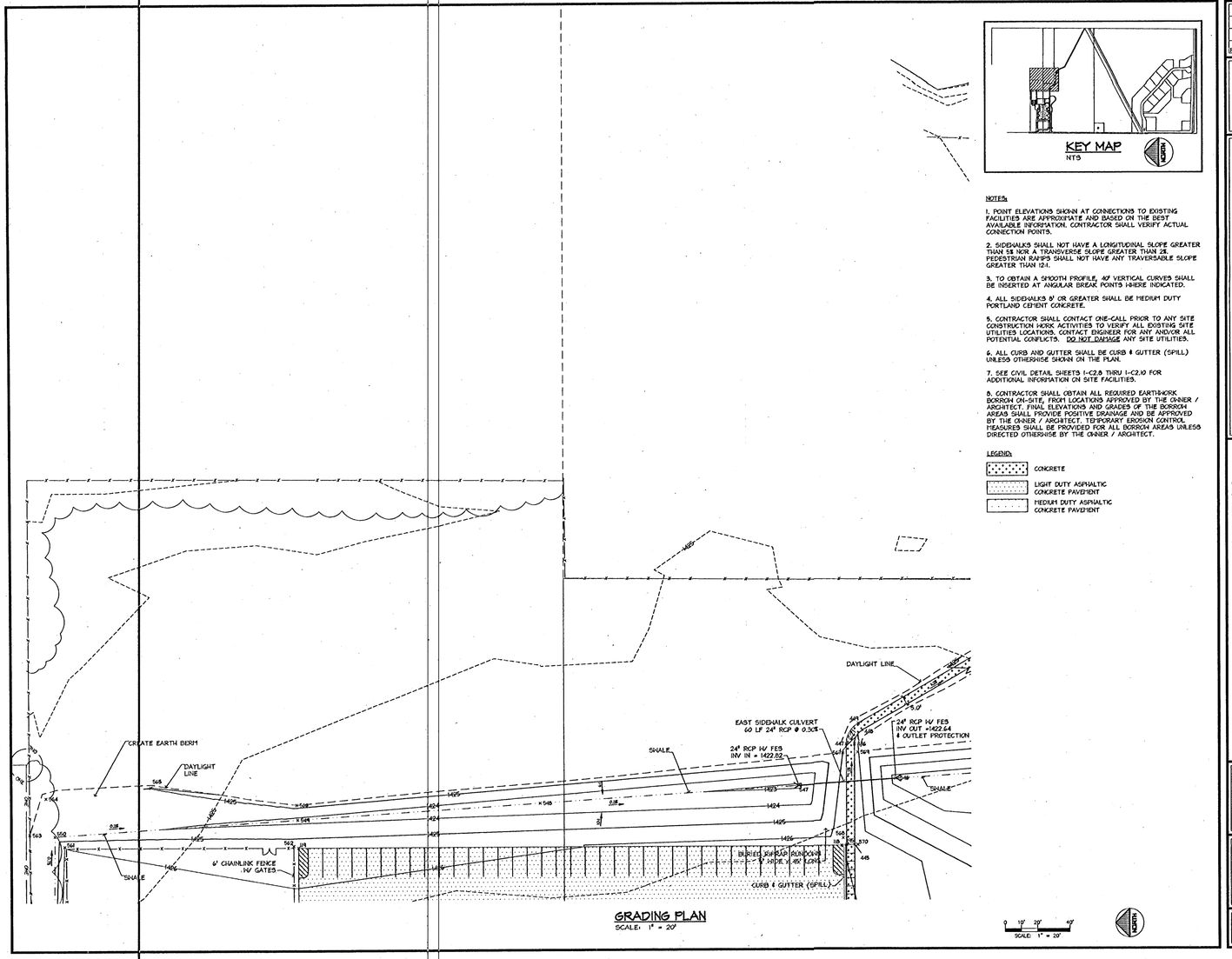
REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078
SHEET NO.	1-C2.2

ABOVE INFORMATION IS 1/2 SCALE.



ABOVE INFORMATION IS 1/2 SCALE.

REVISION	DATE	BY
REV. 5-23-05		

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401
Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings
April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078
SHEET NO.	R 1-C2.3

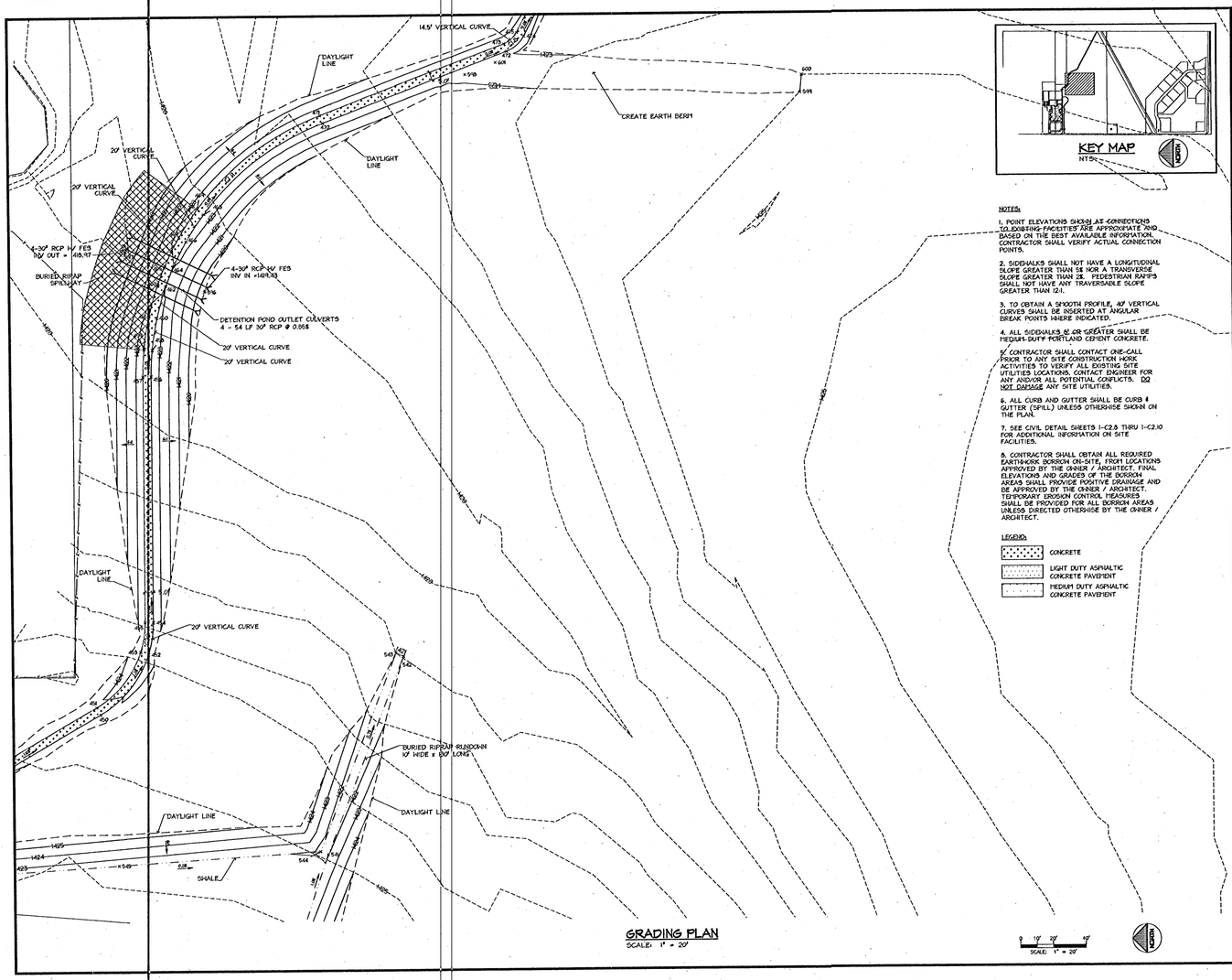
REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078

SHEET NO.
1-C2.3



NOTES:

1. POINT ELEVATIONS SHOWN AS CONNECTIONS TO EXISTING FACILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY ACTUAL CONNECTION POINTS.

2. SIDEWALKS SHALL NOT HAVE A LONGITUDINAL SLOPE GREATER THAN 5% NOR A TRANSVERSE SLOPE GREATER THAN 2%. PEDESTRIAN RAMPS SHALL NOT HAVE ANY TRAVERSABLE SLOPE GREATER THAN 12:1.

3. TO OBTAIN A SMOOTH PROFILE, 40' VERTICAL CURVES SHALL BE INSERTED AT ANGULAR BREAK POINTS WHERE INDICATED.

4. ALL SIDEWALKS 8' OR GREATER SHALL BE MEDIUM-DUTY PORTLAND CEMENT CONCRETE.

5. CONTRACTOR SHALL CONTACT ONE-CALL PRIOR TO ANY SITE CONSTRUCTION WORK ACTIVITIES TO VERIFY ALL EXISTING SITE UTILITIES LOCATIONS. CONTACT ENGINEER FOR ANY AND/OR ALL POTENTIAL CONFLICTS. DO NOT DAMAGE ANY SITE UTILITIES.

6. ALL CURB AND GUTTER SHALL BE CURB & GUTTER (SPILL) UNLESS OTHERWISE SHOWN ON THE PLAN.

7. SEE CIVIL DETAIL SHEETS 1-C2.5 THRU 1-C2.10 FOR ADDITIONAL INFORMATION ON SITE FACILITIES.

8. CONTRACTOR SHALL OBTAIN ALL REQUIRED EARTHWORK BORROW ON-SITE, FROM LOCATIONS APPROVED BY THE OWNER / ARCHITECT. FINAL ELEVATIONS AND GRADES OF THE BORROW AREAS SHALL PROVIDE POSITIVE DRAINAGE AND BE APPROVED BY THE OWNER / ARCHITECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED FOR ALL BORROW AREAS UNLESS DIRECTED OTHERWISE BY THE OWNER / ARCHITECT.

LEGEND:

- CONCRETE
- LIGHT DUTY ASPHALTIC CONCRETE PAVEMENT
- MEDIUM DUTY ASPHALTIC CONCRETE PAVEMENT

REV. 5-23-05

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401
Tel 785 - 827-0433 Fax 785 - 827-5649

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078
SHEET NO.	R 1-C2.4

ABOVE INFORMATION IS 1/2 SCALE.

WILSON & COMPANY
Engineers & Architects
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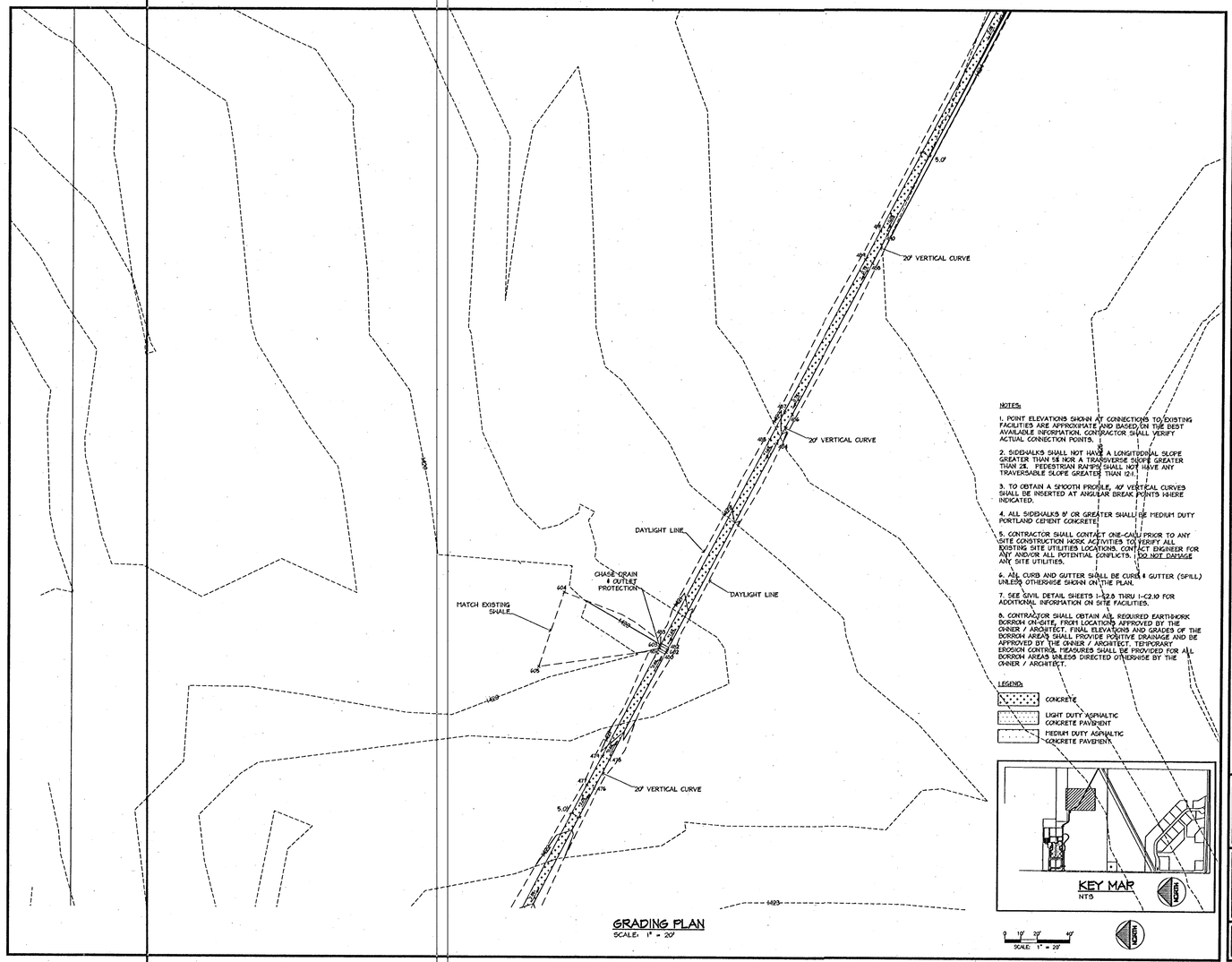
Tel 785 - 827-0433 Fax 785 - 827-5649

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078

SHEET NO.
1-C2.4



REV. 6-23-05

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078

SHEET NO. R 1-C2.5

ABOVE INFORMATION IS 1/2 SCALE.

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078

SHEET NO. 1-C2.5

LEGEND

- CONCRETE
- LIGHT DUTY ASPHALTIC CONCRETE PAVEMENT
- MEDIUM DUTY ASPHALTIC CONCRETE PAVEMENT

NOTES:

1. POINT ELEVATIONS SHOWN AT CONNECTIONS TO EXISTING FACILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY ACTUAL CONNECTION POINTS.
2. SIDEWALKS SHALL NOT HAVE A LONGITUDINAL SLOPE GREATER THAN 5% NOR A TRANSVERSE SLOPE GREATER THAN 2%. PEDESTRIAN RAMPS SHALL NOT HAVE ANY TRAVERSABLE SLOPE GREATER THAN 10%.
3. TO OBTAIN A SMOOTH PROFILE, 40' VERTICAL CURVES SHALL BE INSERTED AT ANGULAR BREAK POINTS WHERE INDICATED.
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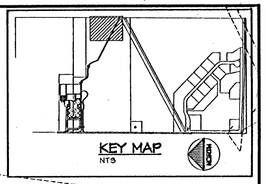

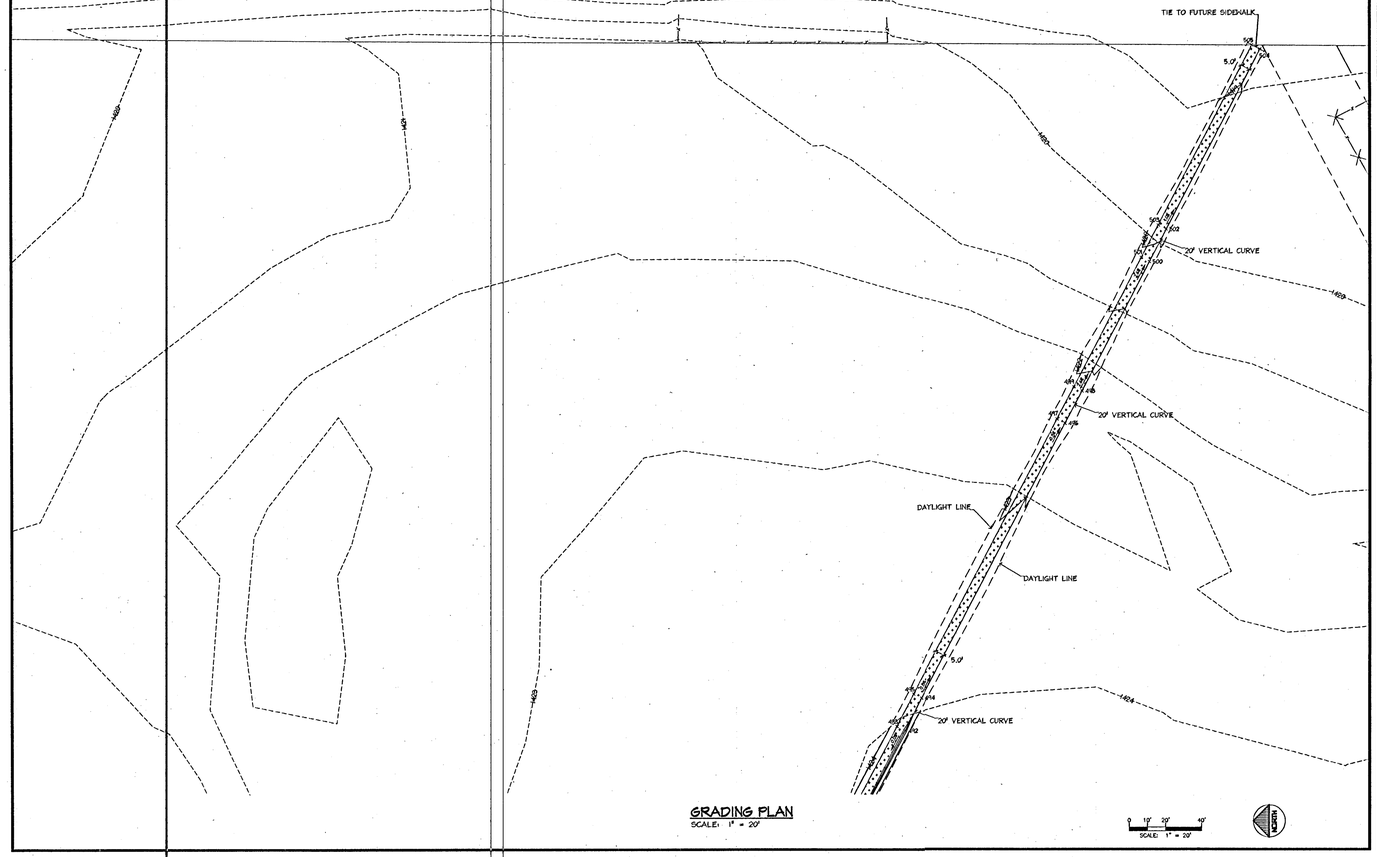

GRADING PLAN
SCALE: 1" = 20'

ABOVE INFORMATION IS 1/2 SCALE.

REV. 5-23-05

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings
April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078

SHEET NO.
R 1-C2.6

REVISION	DATE	BY

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
DRAWN	
DATE	MAY 2005
FILE NO.	X4-420-078

SHEET NO.
1-C2.6

POINT TABLE				
Point No.	Northing	Easting	Elevation	Desc.
100	21057.2227	20051.3433	1438.9	EOP
101	21057.1091	20051.6433	1438.7	EOP
102	20978.7547	20051.6433	1432.74	EOP
103	20978.7692	20051.9464	1438.33	EOP
104	20978.7692	20052.2495	1438.25	EOP
105	20978.7692	20052.5733	1438.18	EOP
106	20978.7692	20052.8733	1438.17	EOP
107	20978.7692	20053.1733	1438.43	EOP
108	20978.7692	20053.4733	1438.72	EOP
109	20978.7692	20053.8021	1438.60	EOP
110	20952.0239	20114.0000	1433.14	EOP
111	20924.7268	20051.7760	1427.38	EOP
112	20908.4731	20114.1603	1426.48	EOP
113	20857.7688	20114.0978	1426.68	EOP
114	20780.3652	20114.0978	1427.01	EOP
115	21138.7692	20105.9375	1427.34	EOP
116	21138.7692	20105.6375	1427.62	EOP
117	21138.7692	20105.3375	1427.43	EOP
118	21138.7692	20104.8875	1427.06	EOP
119	21476.1266	21104.9375	1428.51	EOP
120	21476.1266	20993.9375	1429.11	EOP
121	21476.1266	20993.6375	1429.32	EOP
122	21476.1266	20993.3375	1429.54	EOP
123	21138.7692	20993.3375	1427.54	EOP
124	21138.7692	20993.6375	1427.36	EOP
125	21138.7692	20993.9375	1427.17	EOP
126	21138.7692	20994.2375	1426.98	EOP
127	21138.7692	20994.5375	1426.79	EOP
128	21138.7692	20994.8375	1426.60	EOP
129	21138.7692	20995.1375	1426.41	EOP
130	21138.7692	20995.4375	1426.22	EOP
131	21138.7692	20995.7375	1426.03	EOP
132	21138.7692	20996.0375	1425.84	EOP
133	21459.1727	20777.8125	1432.11	EOP
134	21459.1727	20777.5125	1431.98	EOP
135	21459.1666	20777.2125	1430.13	EOP
136	21459.1666	20777.0625	1429.64	EOP
137	21459.1666	20777.0625	1429.64	EOP
138	21067.1666	20777.0625	1430.24	EOP
139	21067.1666	20777.0625	1429.64	EOP
140	20978.5705	20777.0625	1431.85	EOP
141	20978.7692	20777.0625	1431.93	EOP
142	21205.3366	20777.0625	1431.71	EOP
143	21205.4728	20777.0625	1431.68	EOP
144	21392.1666	20777.0625	1431.68	EOP
145	21453.1666	20777.0625	1431.64	EOP
146	21476.1616	20777.0625	1430.50	EOP
147	21476.1666	20777.0625	1429.50	EOP
148	21556.1666	20777.0625	1429.10	EOP
149	21556.1666	20777.0625	1429.10	EOP
150	21556.1666	20777.0625	1429.71	EOP
151	21476.1666	20777.0625	1430.11	EOP
152	21476.1666	20777.0625	1430.04	EOP
153	21468.1666	20777.0625	1430.11	EOP
154	21468.1666	20777.0625	1430.17	EOP
155	21468.1666	20777.0625	1430.24	EOP
156	21468.1666	20777.0625	1430.31	EOP
157	21468.1666	20777.0625	1429.64	EOP
158	21468.1666	20777.0625	1429.64	EOP
159	21505.7734	20777.0625	1429.64	EOP
160	21452.1666	20777.0625	1432.09	EOP
161	21467.1666	20777.0625	1430.05	EOP
162	21467.1666	20777.0625	1429.50	EOP
163	21467.1666	20777.0625	1429.47	EOP
164	21452.1666	20777.0625	1429.45	EOP
165	21476.7692	20777.0625	1429.12	EOP
166	21476.7692	20777.0625	1428.97	EOP
167	21476.7692	20777.0625	1429.11	EOP
168	21138.7692	20777.0625	1430.82	EOP
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170	21138.7692	20777.0625	1430.84	EOP
171	21477.1666	20777.0625	1430.84	EOP
172	21477.1666	20777.0625	1430.84	EOP
173	21452.1666	20777.0625	1429.54	EOP
174	21138.7692	20777.0625	1429.54	EOP
175	21138.7692	20777.0625	1432.09	TBC
176	21138.7692	20777.0625	1429.64	TBC
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188	21138.7692	20777.0625	1429.64	TBC
189	21138.7692	20777.0625	1429.64	TBC
190	21138.7692	20777.0625	1429.64	TBC
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212	21138.7692	20777.0625	1429.64	TBC
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220	21138.7692	20777.0625	1429.64	TBC
221	21138.7692	20777.0625	1429.64	TBC
222	21138.7692	20777.0625	1429.64	TBC
223	21138.7692	20777.0625	1429.64	TBC
224	21138.7692	20777.0625	1429.64	TBC
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226	21138.7692	20777.0625	1429.64	TBC
227	21138.7692	20777.0625	1429.64	TBC
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229	21138.7692	20777.0625	1429.64	TBC
230	21138.7692	20777.0625	1429.64	TBC
231	21138.7692	20777.0625	1429.64	TBC
232	21138.7692	20777.0625	1429.64	TBC
233	21138.7692	20777.0625	1429.64	TBC

POINT TABLE				
Point No.	Northing	Easting	Elevation	Desc.
234	21141.5011	20318.2501	1432.50	SCHK
235	21141.5011	20318.2501	1432.50	SCHK
236	21141.2462	20318.2501	1432.50	SCHK
237	21141.2462	20318.2501	1432.50	SCHK
238	21141.2462	20318.2501	1432.50	SCHK
239	21141.2462	20318.2501	1432.50	SCHK
240	21141.2462	20318.2501	1432.50	SCHK
241	21141.2462	20318.2501	1432.50	SCHK
242	21141.2462	20318.2501	1432.50	SCHK
243	21141.2462	20318.2501	1432.50	SCHK
244	21141.2462	20318.2501	1432.50	SCHK
245	21141.2462	20318.2501	1432.50	SCHK
246	21141.2462	20318.2501	1432.50	SCHK
247	21141.2462	20318.2501	1432.50	SCHK
248	21141.2462	20318.2501	1432.50	SCHK
249	21141.2462	20318.2501	1432.50	SCHK
250	21141.2462	20318.2501	1432.50	SCHK
251	21141.2462	20318.2501	1432.50	SCHK
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366	21141.2462	20318.2501	1432.50	SCHK
367	21141.2462	20318.2501	1432.50	SCHK

POINT TABLE				
Point No.	Northing	Easting	Elevation	Desc.
368	21141.2462	20318.2501	1432.50	SCHK
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370	21141.2462	20318.2501	1432.50	SCHK
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498	21141.2462	20318.2501	1432.50	SCHK
499	21141.2462	20318.2501	1432.50	SCHK
500	21141.2462	20318.2501	1432.50	SCHK

POINT TABLE				
Point No.	Northing	Easting	Elevation	Desc.
501	21141.2462	20318.2501	1432.50	SCHK
502	21141.2462	20318.2501	1432.50	SCHK
503	21141.2462	20318.2501	1432.50	SCHK
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531	21141.2462	20318.2501	1432.50	SCHK
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565	21141.2462	20318.2501	1432.50	SCHK
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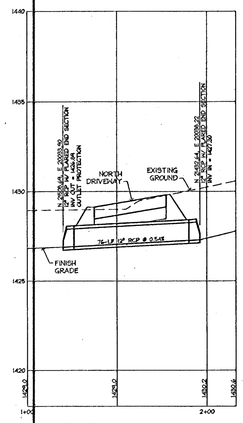
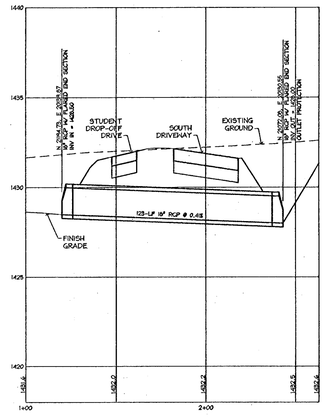
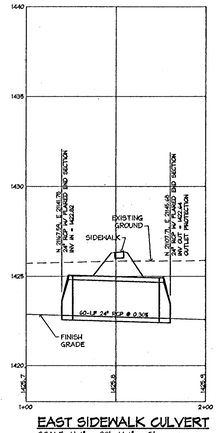


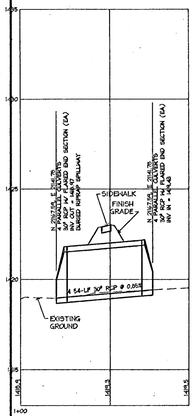
NORTH DRIVEWAY CULVERT
SCALE: H 1" = 20', V 1" = 5'



SOUTH DRIVEWAY CULVERT
SCALE: H 1" = 20', V 1" = 5'



EAST SIDEWALK CULVERT
SCALE: H 1" = 20', V 1" = 5'



TYPICAL DETENTION POND OUTLET CULVERT (4 PARALLEL PIPES)
SCALE: H 1" = 20', V 1" = 5'

CULVERT PROFILES
SCALE: H 1" = 20', V 1" = 5'

ABOVE INFORMATION IS 1/2 SCALE.

REVISION	DATE	BY
REV. 5-23-05		

WILSON & COMPANY
Engineers & Architects
1700 East Iron - Salina, Kansas 67401 Tel 785 - 827-0433 Fax 785 - 827-5949

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

Construction Drawings
April 2005

DESIGN	MAK
DRAWN	MAK
DATE	4-11-05
FILE NO.	X4-420-078

SHEET NO.
R 1-C2.11

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REVISION	DATE	BY

GODDARD FACILITY IMPROVEMENTS
#1 - New Elementary School
GODDARD PUBLIC SCHOOLS U.S.D. No. 265
201 S. MAIN, GODDARD, KANSAS

DESIGN	
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