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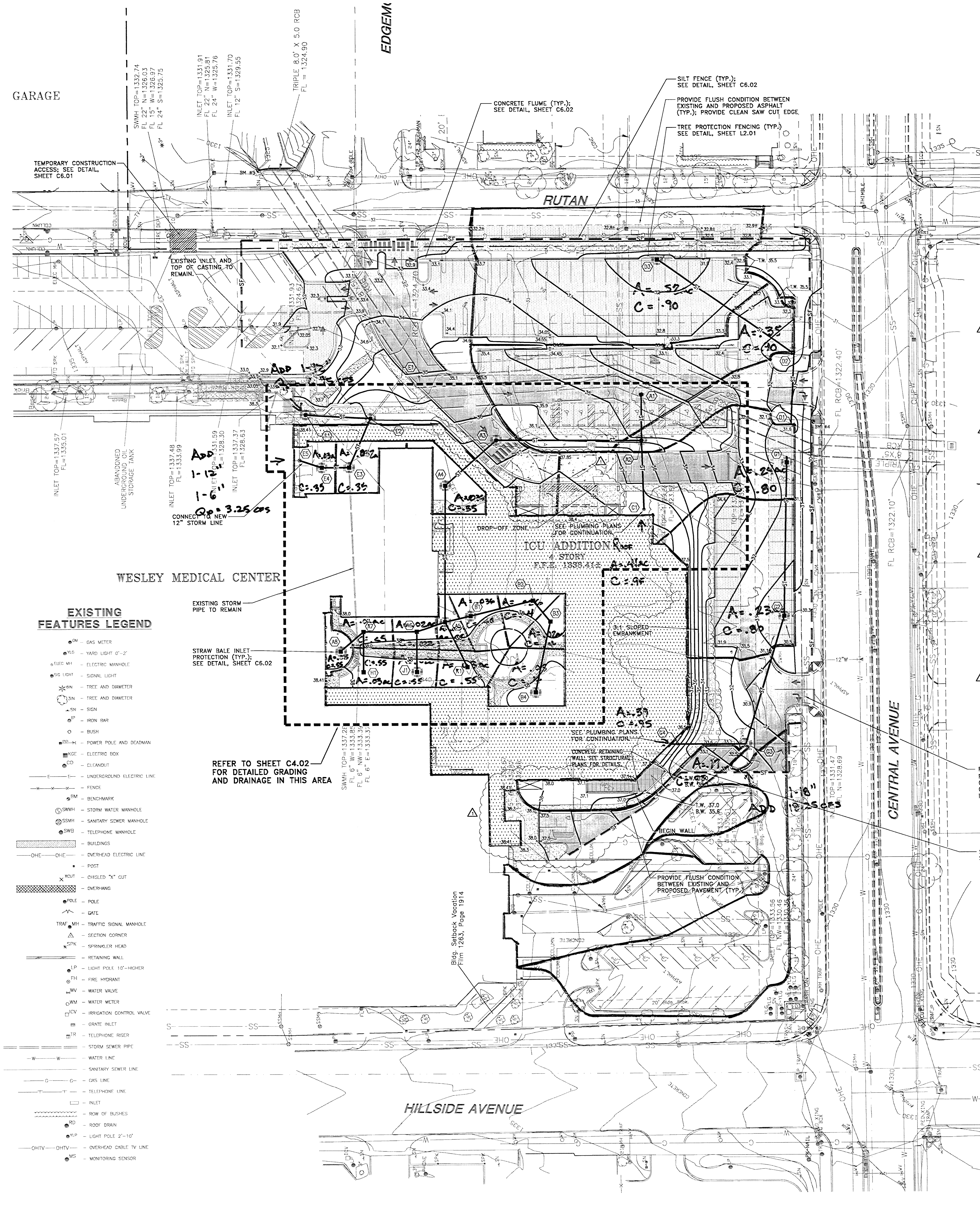

STORM SEWER PIPE							
FROM		TO		GRADE	SIZE	LENGTH	TYPE
CODE	ELEV.	CODE	ELEV.	%	(INCHES)	(LIN. FT.)	
A8	36.00	A7	35.90	0.43	8	23	PVC
A7	35.70	A6	35.50	0.48	8	41	PVC
A6	35.30	A5	35.20	0.43	8	23	PVC
A5	35.00	A4	34.50	0.48	8	105	DIP
A4	34.30	A3	33.60	1.35	8	52	DIP
A3	33.40	A2	31.80	1.44	8	111	DIP
A2	31.60	A1	30.90	2.00	12	35	RCP
B4	36.00	B3	35.70	0.54	8	56	PVC
B3	35.60	B2	35.50	0.48	8	21	PVC
B2	35.50	B1	35.30	0.41	8	49	PVC
B1	35.30	A5	35.20	0.50	8	20	PVC
C1	33.50	A2	31.80	3.20	12	53	RCP
D3	27.30	D2	26.00	1.00	12	128	RCP
D2	25.80	D1	25.20	1.10	15	54	RCP
E5	32.80	E4	29.60	17.80	12	18	PVC
E4	29.40	E3	27.90	7.10	15	21	PVC
E3	27.70	E2	26.20	3.66	15	41	DIP
E2	25.80	E1	25.00	2.20	15	36	RCP
F1	27.69	E2	26.00	3.38	12	50	RCP
G4	31.00	G3	27.90	5.96	15	52	RCP
G3	27.60	G2	25.60	1.90	24	103	RCP
G2	25.10	G1	24.50	0.50	30	118	RCP
H1	36.10	A7	35.90	0.65	8	31	PVC
J1	35.70	A6	35.50	0.65	8	31	PVC
K1	35.40	A5	35.20	0.51	8	39	PVC

Total 709' >12"

DRAINAGE STRUCTURES				
CODE	DESCRIPTION	TOP GRATE	COORDINATES	
A1	JUNCTION BOX	1334.30	N:1688922.9802	E:1660544.3652
A2	JUNCTION BOX	1335.50	N:1688922.1775	E:1660509.3744
A3	JUNCTION BOX	1336.60	N:1689033.1708	E:1660508.1589
A4	NDS DRAIN INLET	1337.20	N:1689071.5483	E:1660473.0709
A5	NDS DRAIN INLET	1337.90	N:1689070.2140	E:1660368.0794
A6	NDS DRAIN INLET	1337.70	N:1689091.7757	E:1660360.0737
A7	NDS DRAIN INLET	1337.70	N:1689132.7713	E:1660659.4734
A8	NDS DRAIN INLET	1337.70	N:1689149.9241	E:1660344.1509
B1	NDS DRAIN INLET	1337.40	N:1689050.8424	E:1660373.0536
B2	NDS DRAIN INLET	1337.50	N:1689003.3820	E:1660385.2403
B3	NDS DRAIN INLET	1337.50	N:1688989.8491	E:1660369.1823
B4	NDS DRAIN INLET	1337.20	N:1689000.5679	E:1660314.2177
C1	CLEANOUT	1337.50	N:1688919.5866	E:1660456.4378
D1	JUNCTION AT PIPE	N/A	N:1688808.4196	E:1660523.4486
D2	SINGLE INLET	1331.80	N:1688807.0575	E:1660577.4314
D3	SINGLE INLET	1331.30	N:1688912.5555	E:1660649.9171
E1	JUNCTION AT PIPE	N/A	N:1689107.6389	E:1660552.9884
E2	MANHOLE	1337.00	N:1689129.3327	E:1660523.9955
E3	CATCH BASIN	1337.00	N:1689145.4308	E:1660486.2881
E4	CATCH BASIN	1337.00	N:1689166.4286	E:1660485.9809
E5	CLEANOUT	1337.20	N:1689183.4284	E:1660491.1931
F1	MANHOLE	1337.80	N:1689179.2780	E:1660526.3344
G1	CATCH BASIN	1331.40	N:1688811.4003	E:1660493.6092
G2	CATCH BASIN	1330.10	N:1688811.4003	E:1660375.4060
G3	EXIST. INLET	1332.41	N:1688839.6300	E:1660276.3500
G4	CLEANOUT	1337.10	N:1688891.6244	E:1660275.5878
H1	NDS DRAIN INLET	1337.70	N:1689132.3174	E:1660328.4768
J1	NDS DRAIN INLET	1337.70	N:1689091.3218	E:1660329.0770
K1	NDS DRAIN INLET	1337.80	N:1689052.8461	E:1660333.1601

PROVIDE FLUSH CONDITION BETWEEN PAVEMENT AND RAMP (TYP.). CONTRACTOR TO COORDINATE WITH CITY OF WICHITA FOR ROADWAY IMPROVEMENTS ALONG CENTRAL AVE.

SILT FENCE (TYP.); SEE DETAIL, SHEET C6.02

PROPOSED FEATURES LEGEND

- STORM PIPE & INLET
- SPOT ELEVATION (+ 91.8)
- PROPOSED CONTOUR (90)
- DRAINAGE STRUCTURE (C3)
- SILT FENCE (SF)
- TREE PROTECTION
- INLET PROTECTION
- STRAW BALE FILTER

SITE GRADING & EROSION CONTROL NOTES:

1. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY MKEC ENGINEERING CONSULTANTS, DATED NOVEMBER 05, 2001. LITTLEJOHN ENGINEERING ASSOCIATES AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
2. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY ACRES.
3. THE SUBJECT PROPERTY DOES LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 200 328 0025 B OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR WICHITA, KANSAS, WITH AN DATE OF MAY 15, 1986.
4. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
5. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
6. REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
7. CLEAN SILT BARRIERS WHEN THEY ARE APPROXIMATELY 50% FILLED WITH SEDIMENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SILT BARRIERS SHALL BE REPLACED AS EFFECTIVENESS IS SIGNIFICANTLY REDUCED, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
9. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
10. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
11. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
12. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
14. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
15. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.
16. ALL PIPES UNDER EXISTING PAVED AREAS SHALL BE BACKFILLED TO THE TOP OF SUBGRADE WITH CRUSHED STONE.
17. MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0%.
18. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE BEGINNING CONSTRUCTION.
19. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL, SHALL BE MONITORED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE.
20. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION, PERMANENT FRENCH DRAINS MAY BE REQUIRED. THE DRAINS SHALL BE SPECIFIED AND LOCATED DURING CONSTRUCTION AS REQUIRED BY THE CONDITIONS WHICH ARE ENCOUNTERED, AND SHALL BE APPROVED BY THE ENGINEER.
21. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITION FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
22. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
23. IN NO CASE SHALL SLOPE, HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS (29 CRF PART 1926) SHALL BE FOLLOWED.
24. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
25. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS, TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.
26. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES.
27. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL GOVERNING AGENCY.
28. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER.
29. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III.
30. FILL SLOPES 3:1 AND GREATER SHALL BE PLACED AND COMPACTED 5' BEYOND PROPOSED LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
31. ALL FILL MATERIAL IN THE BUILDING ENVELOPE(S) SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
32. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN THE RUN-OFF. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR EARTHWORK. THE CONTRACTOR SHALL OBTAIN THE DISPOSAL SITE AS PART OF THIS WORK.
33. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.
34. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
35. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WASTE EXCESS EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FIRST OFFER THE EXCESS MATERIAL TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) FOR EARTHWORK OPERATIONS IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE.

Drainage Area Map

SCALE : 1" = 30' (0 10 20 30 60 90)

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WESLEY MEDICAL CENTER
ICU ADDITION & RENOVATION
WICHITA, KANSAS
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4400 HARDING ROAD, SUITE 1000
NASHVILLE, TENNESSEE 37205

REVISIONS: (1) MARCH 14, 2002

DATE: JANUARY 25, 2002

SITE GRADING AND DRAINAGE
C4.01