

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
STREET IMPROVEMENTS

29TH STREET NORTH - FROM THE E.L. OF OAK RIDGE ADDITION TO THE
W.L. OF TOPAZ CIRCLE

CITY OF WICHITA PROJECT NO. 472-76-245-82663-000-000-001
INDEX NO. 763540

INDEX OF SHEETS

1. TITLE SHEET
2. PLAT
3. TYPICAL SECTIONS
4. PAVING PLAN - 29TH ST. N.
5. MISCELLANEOUS DETAILS
- 6-8. CROSS SECTIONS

PROJECT SURVEY CONTROL

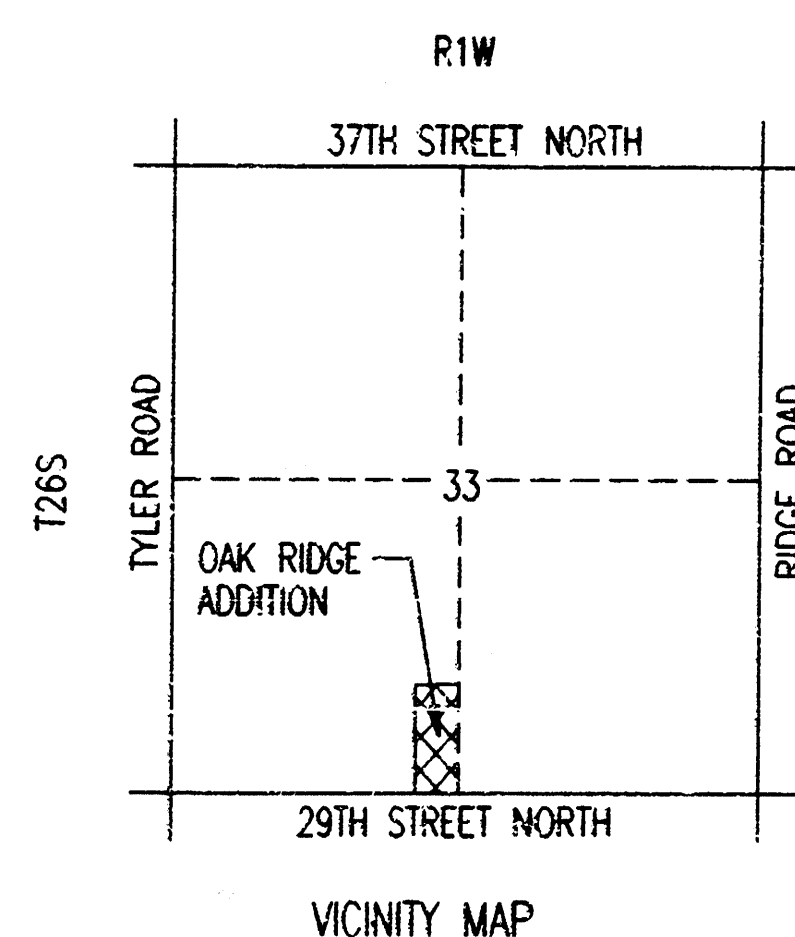
- B.M. - CITY DISC AT N.W. CORNER SOIL SAVER, WEST SIDE ROB
AT 29TH STREET NORTH AND TEE TIME. ELEV.=142.22
- B.M. - CITY DISC IN CONCRETE, 23' NORTH OF SOUTH 1/4 CORNER
SEC. 33, T26S, R1W, NORTH SIDE 29TH STREET NORTH,
1/2 MILE WEST OF RIDGE ROAD. ELEV.=152.15*
- B.M. - RAILROAD SPIKE IN NORTH FACE 15' ELM. 100' WEST OF
SOUTH 1/4 CORNER SEC. 33, T26S, R1W, SOUTH SIDE
29TH STREET NORTH, 1/2 MILE WEST OF RIDGE ROAD. ELEV.=155.98

* THIS B.M. IS SUBJECT TO REMOVAL BY WATER CONTRACTOR
PRIOR TO THIS PROJECT AND BEING RESET OR REPLACED
BY CITY OF WICHITA FORCES. CONTACT WIRE STAMP, E.L.T.
AT (316) 268-4043.

EARTHWORK

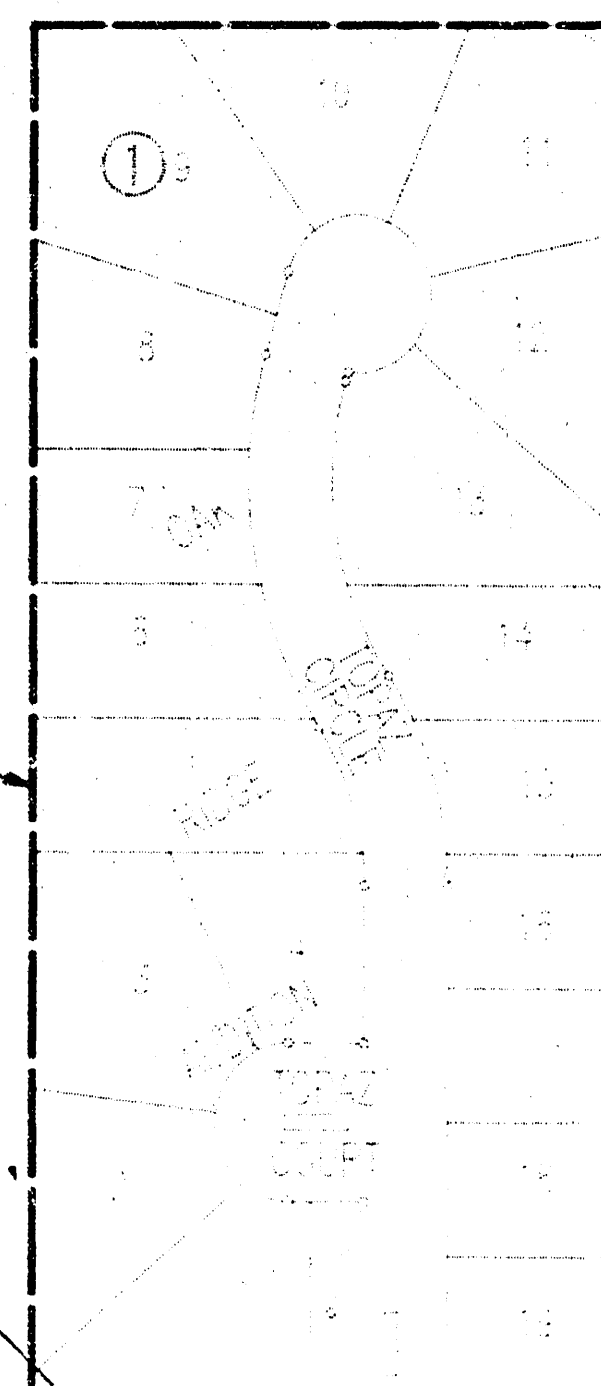
EXCAVATION 0 CU. YDS. #
COMPACTED FILL 0 CU. YDS.
PROJECT LENGTH = 400.00 LIN. FT.

EARTHWORK REQUIRED FOR CONSTRUCTION OF THIS PROJECT
SHALL BE PERFORMED UNDER PROJECT NO. 472-76-245-
82662-000-000-001 (OAK RIDGE ADDITION).



IMPROVEMENT DISTRICT
BOUNDARY

STREET IMPROVEMENTS



SCALE: 1" = 150'

GENERAL NOTES

UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE
LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO
CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT
BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION AS SHOWN
ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN.
LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY
COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY
PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK
AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT
CONFLICT WITH PROPOSED CONSTRUCTION.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT
CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE
CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE
NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED
AND PROTECTED FROM DAMAGE.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED
OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND
ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN
WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL
DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF
ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND
APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL
INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

CONTRACTOR SHALL SATISFY HIMSELF OF SURFACE AND SUBSURFACE CONDITIONS PRIOR TO BIDDING.

TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN
STREET RIGHTS-OF-WAY FOR HAUL ROADS AND TEMPORARY ACCESS. CONTRACTOR SHALL
FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT, IF ANY, OF SUCH
SURFACING. CONTRACTOR SHALL REMOVE SAID TEMPORARY SURFACING IN THE SAME
MANNER AS NOTED ABOVE FOR RUBBLE. THIS REMOVAL SHALL BE SUBSIDIARY TO
"EXCAVATION".

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE
(EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION, TO
KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE AT (316) 687-2470
TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES
WITHIN THE PROJECT AREA: PEOPLES NATURAL GAS, K.G.A.E. ELECTRIC, SOUTHWESTERN
BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE
AND CITY OF WICHITA WATER DEPARTMENT. ALSO NOTIFY SEDGWICK COUNTY BUREAU
OF PUBLIC SERVICES (316) 383-7901.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING AND/OR RESETTling PROPERTY
IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH
ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE
RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
THIS WORK SHALL BE SUBSIDIARY TO "CLEARING R/W AND SITE PREPARATION".

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING
CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S
RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION
PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING
CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER.
THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.

THIS PROJECT INCLUDES ALTERNATE PAVEMENT TYPES. THE CONTRACTOR SHALL BID
ALL ALTERNATE 1 AND ALTERNATE 2 BID ITEMS AND THE CITY ENGINEER SHALL
THEN SPECIFY WHICH PAVEMENT TYPE IS TO BE USED FOR THIS PROJECT.
THE ALTERNATE SELECTED BY THE CITY ENGINEER SHALL BE USED FOR THE ENTIRE
PROJECT.

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM SEDGWICK COUNTY BUREAU
OF PUBLIC SERVICES.

CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS WITHIN
RIGHT-OF-WAYS AND ADJACENT EASEMENTS TO CITY OF WICHITA SPECIFICATIONS.

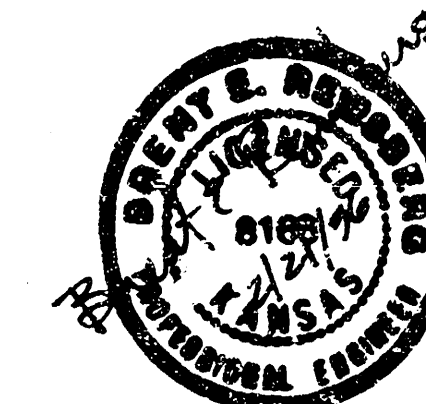
CONTRACTOR MAY CLOSE 29TH ST. N. TO THRU TRAFFIC FOR STREET AND DITCH
CONSTRUCTION DURING DAYLIGHT HOURS. CONTRACTOR MAY CLOSE 29TH ST. N.
AT CRP SITE, NOT TO EXCEED 3 DAYS FOR 30' CRP AND EXCAVATABLE
FLOWABLE FILL CONSTRUCTION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR
PROVIDING, INSTALLING, AND MAINTAINING TRAFFIC CONTROL AND ADVANCED WARNING
DEVICES AS NECESSARY ACCORDING TO THE LATEST EDITION OF THE CITY OF
WICHITA "BARRICADE MANUAL".

THE CONTRACTOR OF PROJECT (PROJ. NO. 472-82662) WILL BE RESPONSIBLE FOR
ALL EARTHWORK OPERATIONS ON 29TH STREET ADJACENT TO OAK RIDGE ADDITION
(PROJ. NO. 472-82663). ANY WASTE EXCAVATED MATERIAL SHALL BE PLACED ON
SITE PROVIDED BY THE DEVELOPER IN OAK RIDGE ADDITION. BORROW EXCAVATION
MATERIAL, IF REQUIRED, SHALL BE FURNISHED BY THE DEVELOPER ON SITES IN OAK
RIDGE ADDITION. CONTACT J.V. VAN ALLEN, CLEARWATER, KANSAS AT (316) 584-2305.

JANUARY, 1996

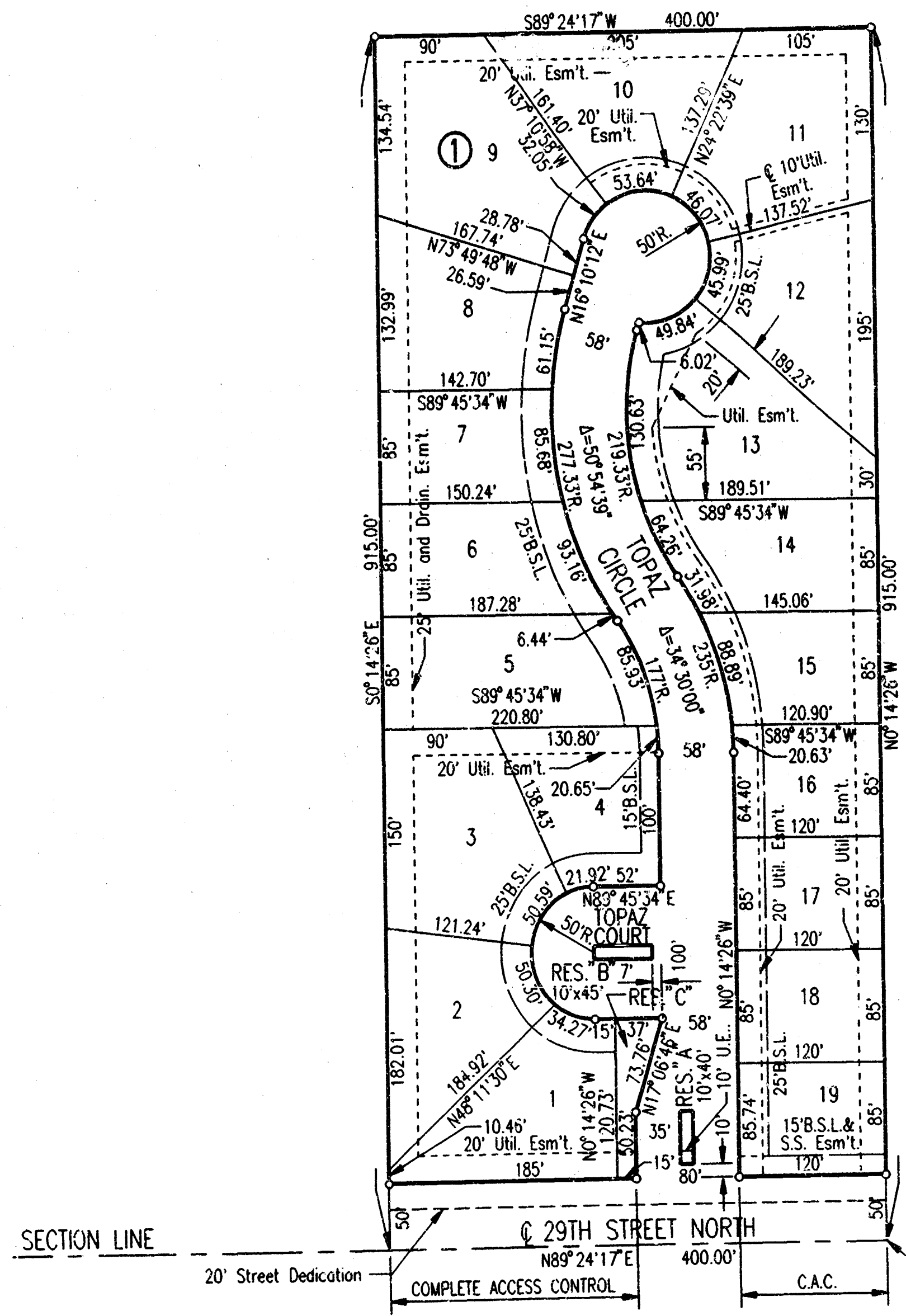
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Incidental Drainage
Booked 9-19-96
McG 12-314



PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-75-245-82663-000-000-001	2	3

OAK RIDGE ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1"=100'

B.S.L. = BUILDING SETBACK LINE
C.A.C. = COMPLETE ACCESS CONTROL
S.S. = SANITARY SEWER
c = IRON SET

DATUM B.M. - CHISELED "L" ON N.E. CORNER OF EAST HEADWALL OF RCB UNDER RIDGE ROAD AT 200'± NORTH OF EAST 1/4 CORNER, SEC. 4, T27S, R1W
ELEV.=138.46 CITY DATUM
ELEV.=1325.64 M.S.L.

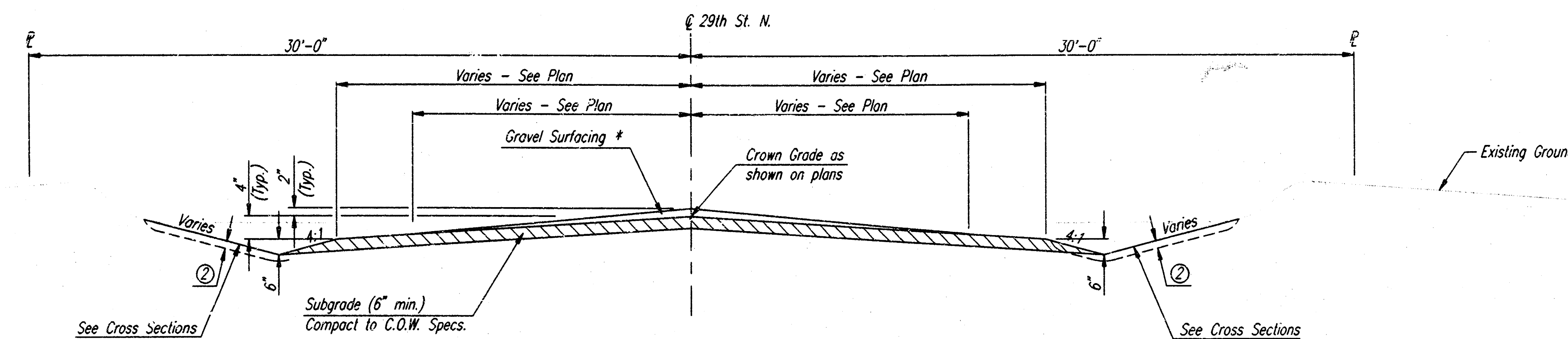
S.E. Corner S.W. 1/4
Sec. 33, T26S, R1W
of the 6th P.M.

29TH STREET NORTH		
PLAT		
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	Checked by	
Drawn by DEP	Date JAN, 1996	Job No. 95880-3

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-8263-000-000-001	3	6

① Varies from 12'-6" at Sta. 97+46.07 to 20'-6" at Sta. 97+96.12. See Plan.

② On Ditch Slopes and Easements in Cut, overexcavate and loosely place 4-inches of Topsoil Material, salvaged from project, immediately prior to seeding. This work to be subsidiary to other construction items.



TRANSITION SECTION
Sta. 95+00 to Sta. 96+00

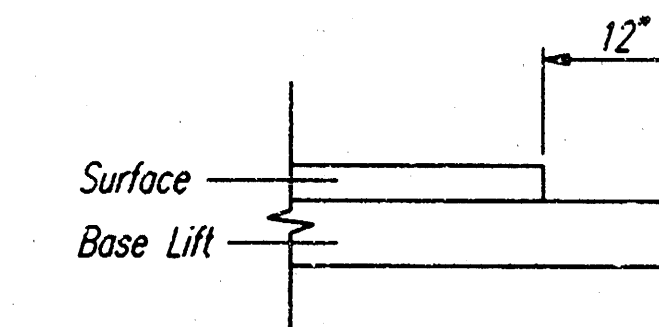
* Gravel Surfacing Material shall conform to the requirements for Type SA-1 or SA-2 Aggregate in Subsection 1112 of the Standard Specifications for State Road and Bridge Construction of the State of Kansas, 1990 Edition. Gravel surfacing shall be applied at the Rate of 4.0 tons per Station and be bid and paid for per Ton which price shall include all costs of furnishing Materials, Manipulation, and other incidental items necessary to complete the work.

CRUSHED ROCK OR RECYCLED ASPHALT PAVEMENT (RAP) GRADATION REQUIREMENTS PERCENT OF AGGREGATE RETAINED

2-1/2"	0
3/4"	20-60
#4	50-80
#40	80-94
#200	90-98

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS I

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5" ASPHALTIC CONCRETE PAVEMENT (5" BITUMINOUS BASE).

GENERAL NOTES

FABRIC BASE REINFORCEMENT SHALL BE BX1100 BY TENAX CORP. OR LB0201 BY TENAX CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FABRIC REINFORCEMENT SHALL BE SUBSIDIARY TO BASE MATERIAL.

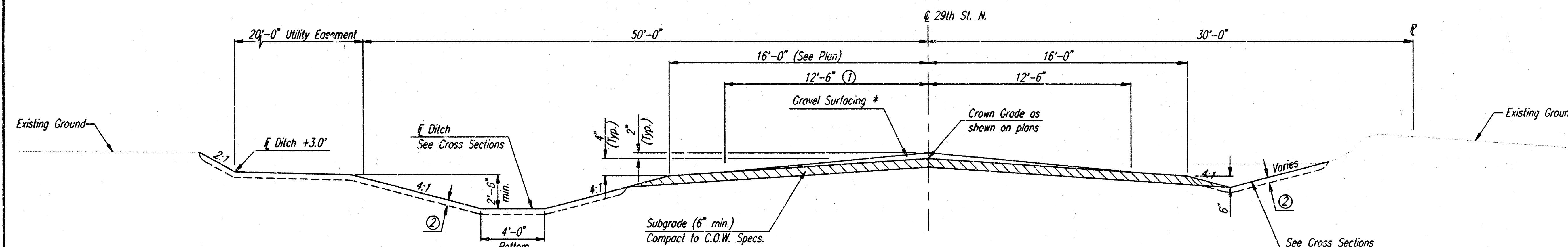
ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

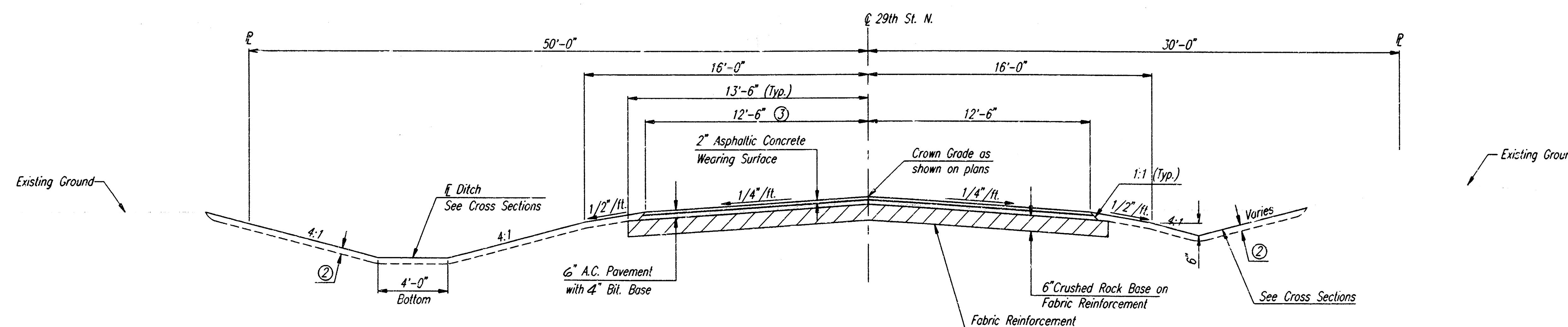
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

5" CRUSHED ROCK BASE ON FABRIC REINFORCEMENT IS ALTERNATE NO. 1 MATERIAL. ALTERNATE NO. 2 SHALL BE 5" RECYCLED ASPHALT PAVEMENT (RAP) ON FABRIC REINFORCEMENT. ALL REFERENCES ON THIS SHEET TO ROCK OR CRUSHED ROCK BASE SHALL APPLY ALSO TO RECYCLED ASPHALT PAVEMENT (RAP) BASE MATERIAL.



TYPICAL SECTION
Sta. 96+00 to Sta. 97+96.12



TYPICAL SECTION
Sta. 97+96.12 to Sta. 100+00

29TH STREET NORTH

TYPICAL SECTIONS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

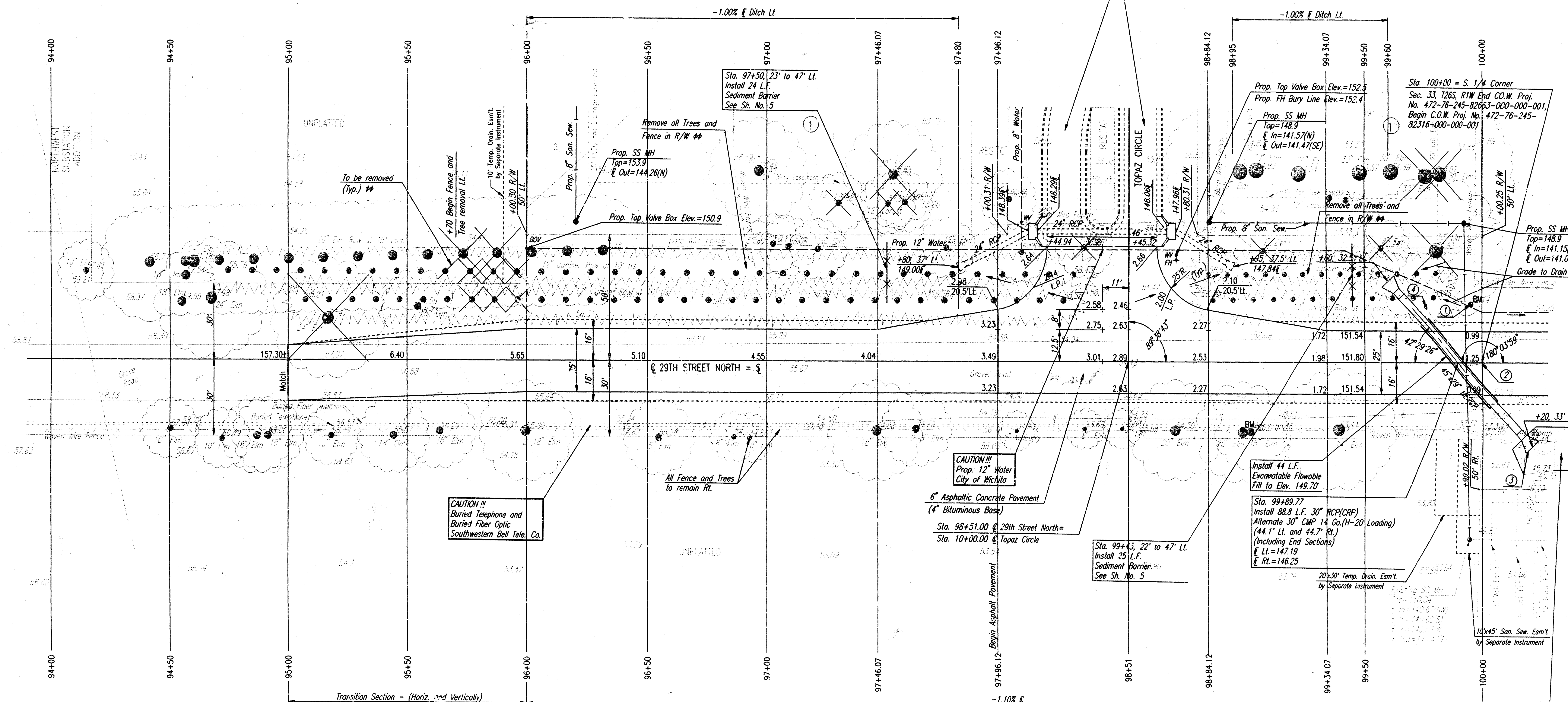
Designed by	BER, GDD	Checked by	
Drawn by	DEP	Date	JAN., 1996

Job No. 95880-3

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
29TH STREET NORTH	96+00	44.0' LT.	150.9
29TH STREET NORTH	98+71	42.0' RT.	152.5

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82663-000-000-001	4	8

SCALE: 1"=20'



PAVEMENT MARKING	
Sta. 99+30 to Sta. 100+00 Lt.	70 L.F. (4" White)
Sta. 97+96 to Sta. 100+00 Rt.	204 L.F. (4" White)
Sta. 98+84 to Sta. 100+00 &	232 L.F. (4" Yellow)

Contractor shall apply 4" White Cold Plastic Pavement Marking Tape to Left and Right Edge of Asphalt as indicated above, and 4" Yellow Double Centerline Cold Plastic Pavement Marking Tape. This work shall be to City Specifications and shall be paid for as L.C. Sum for "Pavement Marking".

⚠ This work shall be part of Bid item "Clearing R/W and Site Preparation".

① Contractor shall use caution when working around BM (City of Wichita Disc).

② Contractor shall not destroy 1/4 Corner Monument. City of Wichita Standard Survey Monument to be installed by others.

③ Caution - Buried Telephone - Buried Fiber Optic
Contact Southwestern Bell Telephone Co. before excavating. Cables as shown have not been field located. Telephone Co. shall move Cables during construction, if necessary.

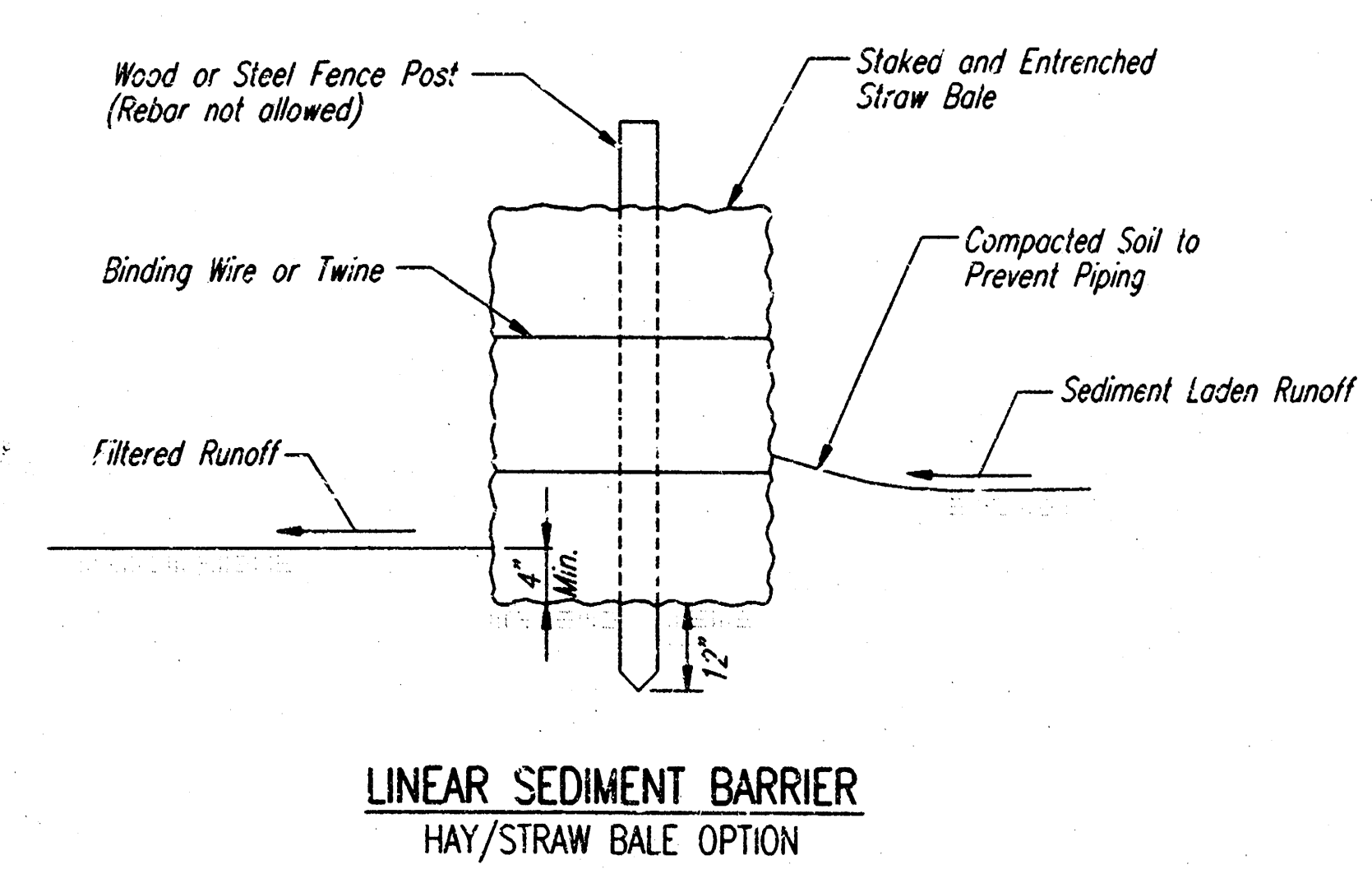
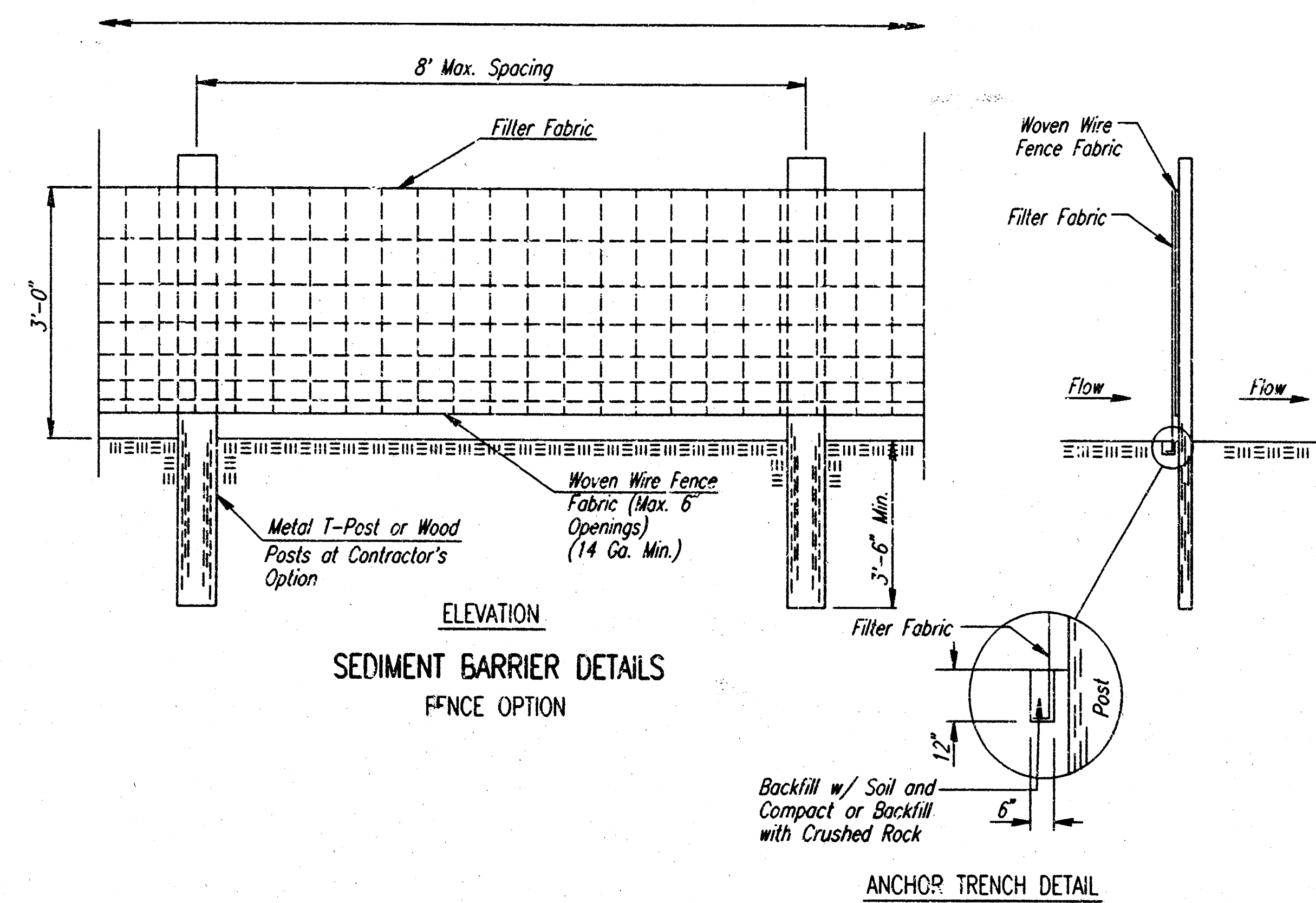
④ Sta. 99+75, 22' Lt. Install Traffic Control Sign (Pavement Ends) salvaged from St. 105+75t. Contractor shall Repair and/or Replace as instructed by the Engineer. This work shall be subsidiary to Asphalt Pavement.

29TH STREET NORTH
STA. 95+00.00 TO STA. 100+00.00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDD	Checked by	
Drawn by	DEP	Date	JAN, 1996
		Job No.	95880-3

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82643-000-000-001	5	8

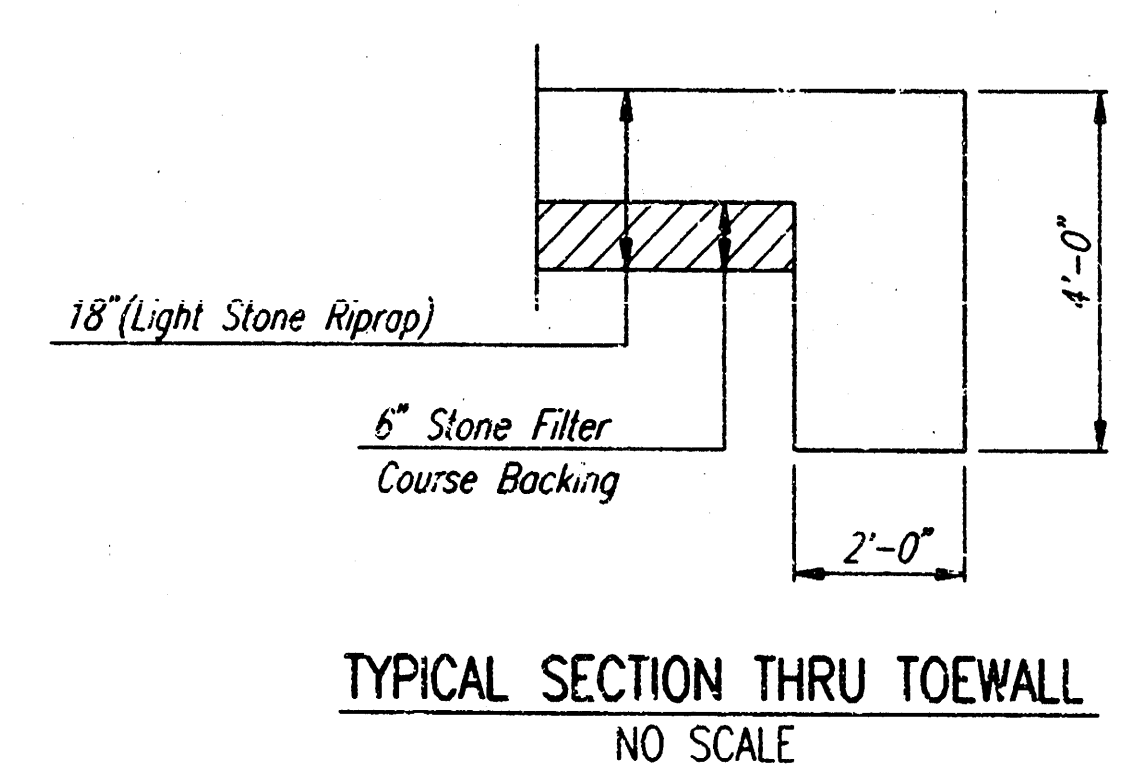
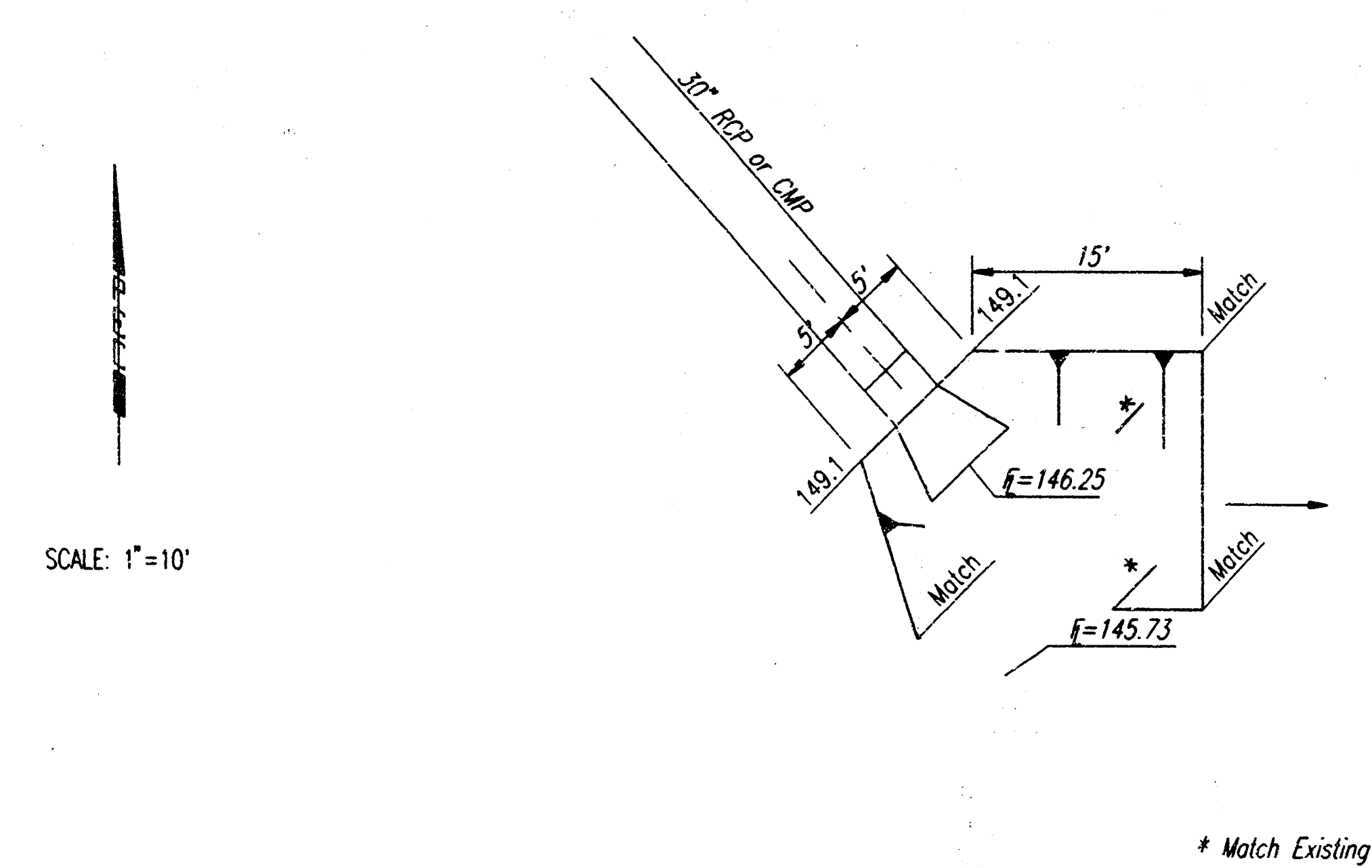


- SEDIMENT BARRIERS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL SEDIMENT BARRIERS WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER WITH NO ADJUSTMENT IN UNIT PRICE.
- SEDIMENT BARRIERS SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS IN A GIVEN BASIN. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF SEDIMENT BARRIERS WILL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHEN DEBRIS REACHES ONE-THIRD THE FENCE HEIGHT OR AS DEEMED NECESSARY BY THE ENGINEER. SEDIMENT BARRIERS AND ACCUMULATED DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AFTER TURF COVER HAS BEEN ESTABLISHED, UNLESS OTHER ARRANGEMENTS HAVE BEEN AGREED TO.
- FILTER FABRIC FOR FENCE OPTION SEDIMENT BARRIERS SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

MIRAFI, INC.	-	100X
HOECHST FIBERS INDUSTRIES	-	TREVIRA 1115
EXXON	-	TYPAR 3301 W

MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.

FILTER FABRIC SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF TIE WIRES OR HOG RINGS PRIOR TO ATTACHMENT OF FENCE/FABRIC COMBINATION ONTO THE POSTS.
- BALES USED FOR SEDIMENT BARRIERS MAY BE EITHER HAY OR STRAW, PROVIDED THEY ARE SOUND AND INTACT.
- MEASUREMENT AND PAYMENT: THE ITEM "SEDIMENT BARRIERS", SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER LINEAL FOOT COMPLETE IN PLACE OF THE VARIOUS BID ITEMS SHOWN. SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR EXCAVATION, BACKFILL, SEDIMENT AND DEBRIS REMOVAL AND DISPOSAL, AND ALL MATERIALS, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.



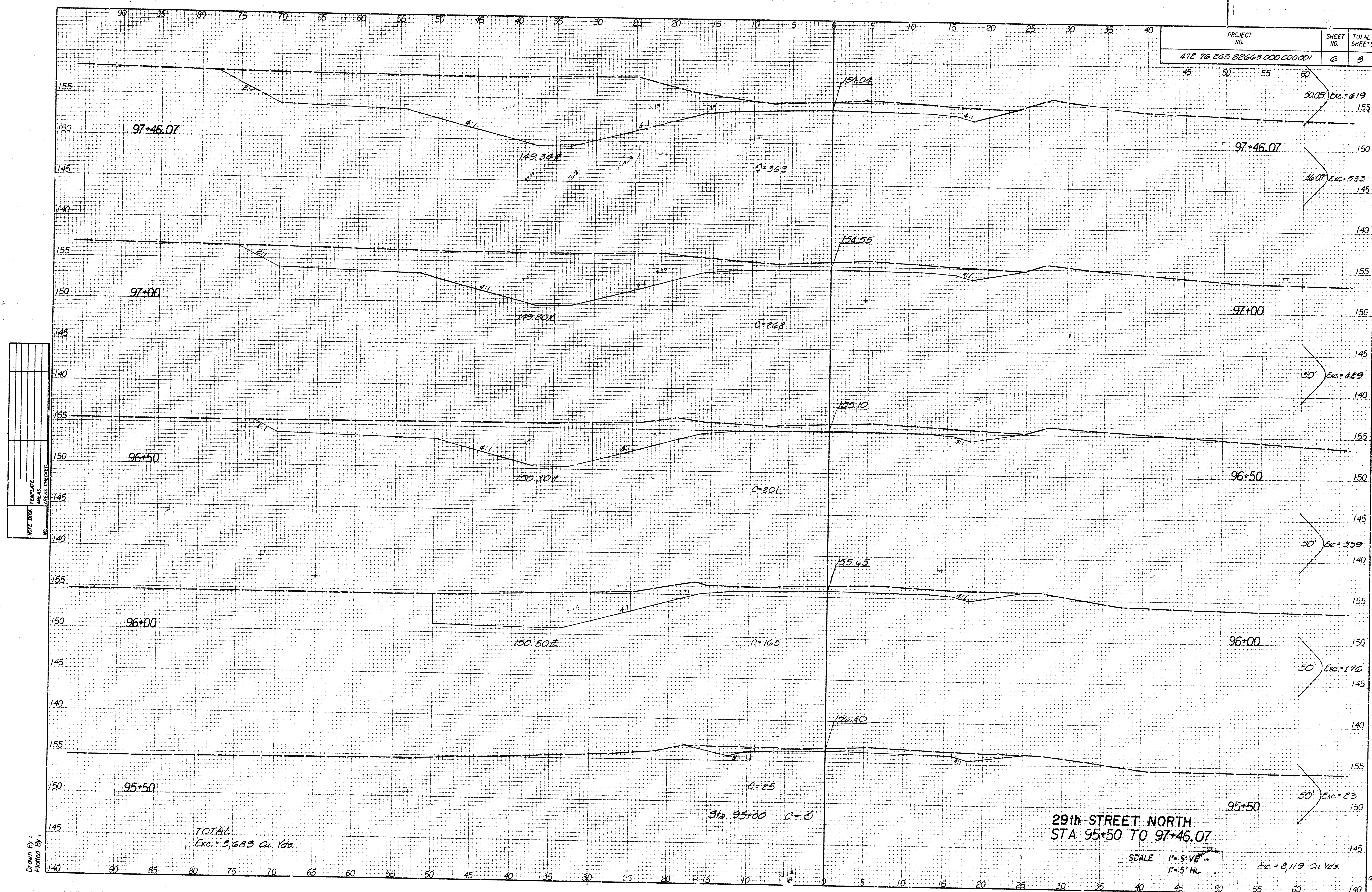
- NOTES
- ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
 - TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP EXCEPT ADJACENT TO EXISTING RIPRAP.
 - GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

29TH STREET NORTH

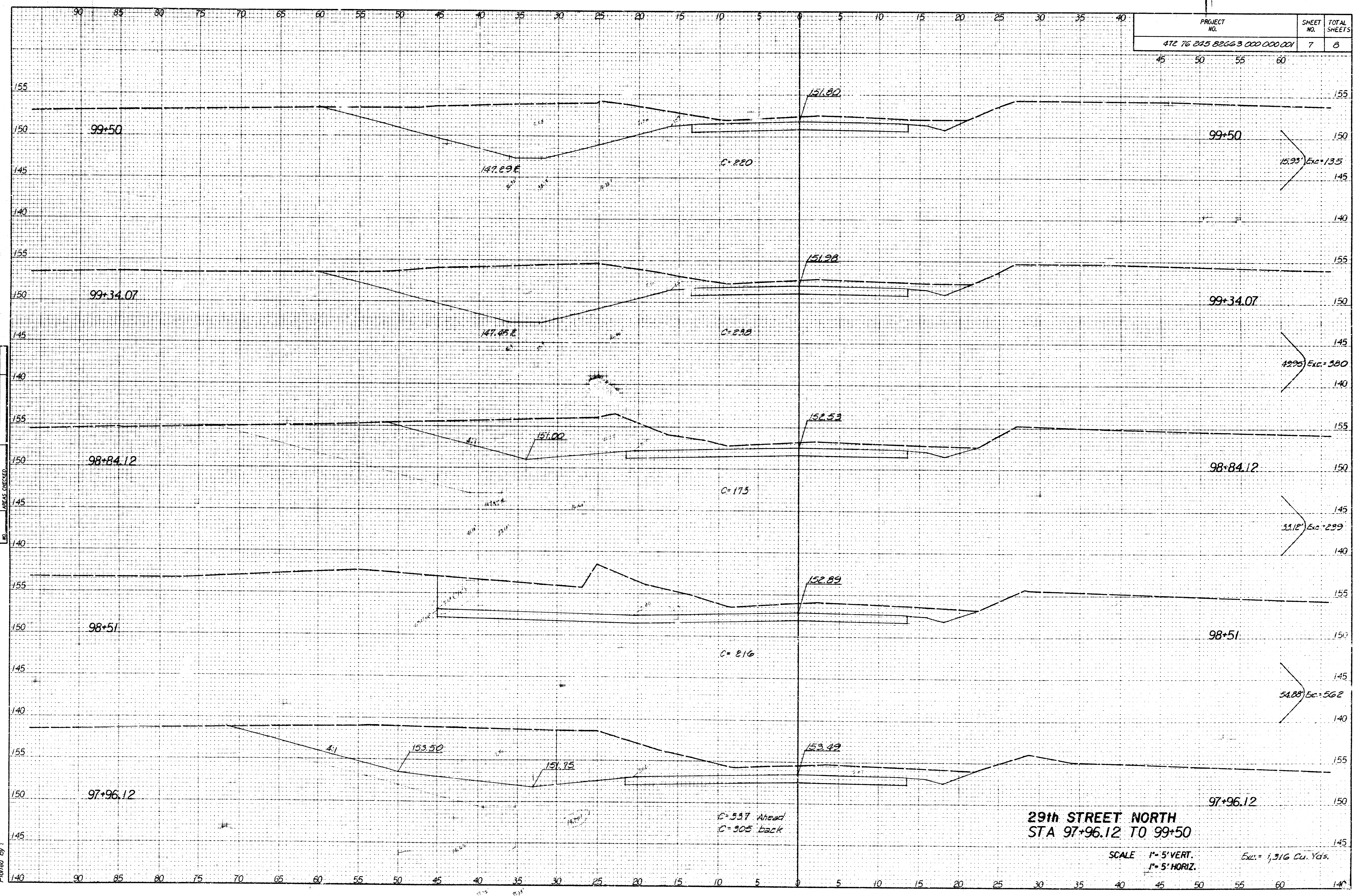
MISCELLANEOUS DETAILS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDO	Checked by	
Drawn by	DEP	Date	JAN., 1996
		Job No.	95880-3



PROJECT NO.	SHEET NO.	TOTAL SHEETS
412 76 245 82663 000 000 001	7	8



29th STREET NORTH
STA 97+96.12 TO 99+50

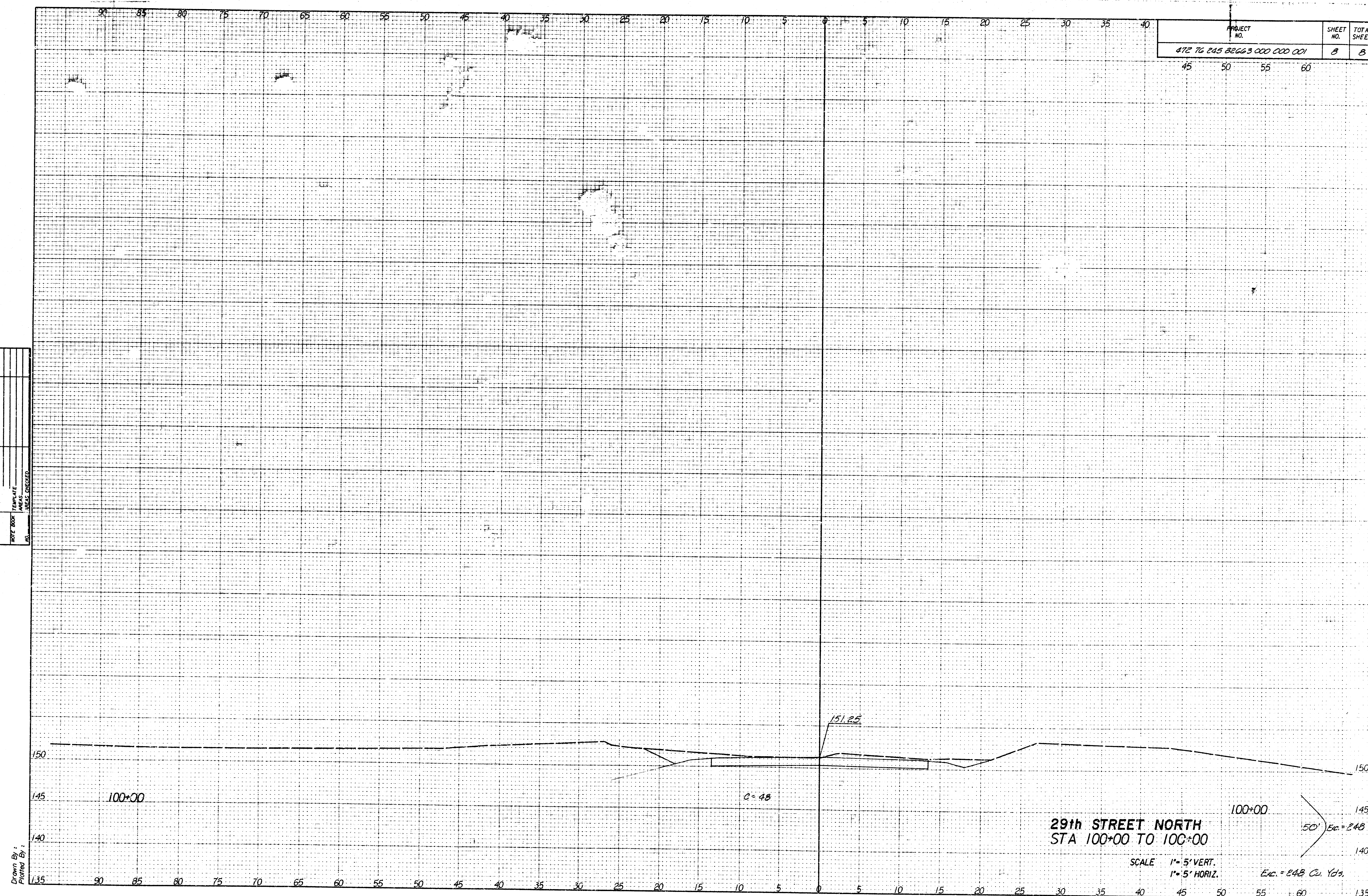
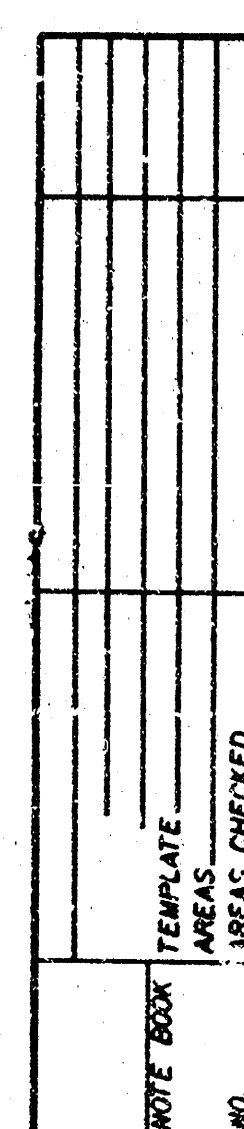
SCALE 1" = 5' VERT.
1" = 5' HORIZ.

Exc. = 1,316 Cu. Yds.

NOTE BOOK	TEMPLATE	AREAS CHECKED
NO.		

Drawn By:
Plotted By:

PROJECT NO.	SHEET NO.	TOTAL SHEET
472 76 245 82663 000 000 001	8	8
45 50 55 60		



29th STREET NORTH
STA 100+00 TO 100+00

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

Exc. = 248 Cu. Yds

60 135
10-3-11