KILLARNEY PLAZA THIRD ADDITION

①

LOT 2

LOT 3

45' Drainage Easement

45' Drainage Easement

5' Wall Easement

4+50

5+00

6+00

7+00

8+00

Exist. 425 S.Y. Light Stone Rip-Rap
Remove as needed, reshape channel & reuse

grouted rip-rap toewall 15 feet long,
2 feet deep, 2 feet wide

Reuse spec. 10' x 4' end section

80' Drainage Easement

Proposed West Restaurant
Property Line

Proposed Future Curb & Gutter

Proposed Type 1-A Curb Inlet
5'-4" x11'-4"

Exist. 65 S.Y.
Light Stone Rip-Rap
Remove & Stockpile

Exist. 120 S.Y.
Light Stone Rip-Rap
Remove & stockpile

Proposed East Restaurant
Property Line

Remove & reuse
Spec. 10' x 4' end section

Remove spec. 45°∠ turn (opposite ∠)

Remove & reuse
5 sections 10' x 4' RCB-Precast

Remove & reuse
Spec. 45°∠ turn

Stub One Section 18" RCP
w/Temp. Plug

20' Drainage Easement

20' Drainage Easement

Rock Road R.O.W. Line

N

Scale: 1" = 20' Horiz.
1" = 5' Vert.

NOTE: Fill existing channel with excess material on site & contractor supplied fill
Contractor shall compact fill (90% of standard protor compaction: ASTM D-698)

Exist. 10-ft Bottomwidth Channel

Leave toe walls in place (abandon).

Sta 4 + 87.6

Sta 5 + 05.6

Sta 5 + 19.4

Sta 9 + 27.6

88°

88°

R.O.W. Line

Exist. 10' x 4' RCB (Precast)
(Mediterranean Plaza Commercial S.W.S. #339)

Transformer

Stub One Section 24" RCP
w/Temp. Plug

Type 'B' Manhole Stack
Top =

Type 'B' Manhole Stack
Top =

℄ 32 ND. STREET

NORTH

New spec 45°∠ turn/with type 'A'
manhole stack
Top of manhole =

Reuse spec 45°∠ turn/with type 'A'
manhole stack
Top of manhole =

RCB NOTE:
Precast Barrel Sections: The precast concrete barrel sections shall comfora to the ASTM C-850specifications.
If contractor decides to build cast-in-place RCB, plans need to be reviewed by the engineer.
RCB may be extended again in future
Cost of special 45°∠ turns shall be included in the linear foot cost of the precast 10' x 4' RCB.

Reamove excess 29" x 45" HERCP
Need to tie exist 29" x 45" HERCP
into new 10' x 4' RCB
And provide type 'B' manhole
stack access point Top =

Sta 0+00 = Sta 4+50 = Sta 5+00 (Exist)

Sta 4+64.5 = Sta 5+00 (Exist)

Sta 4+87.6 New RCB Precast
Begin of Precast RCB
Reuse Spec End Section

Sta 5+05.6 New RCB Precast
Begin Spec 45°∠ Turn/with
Type 'A' Manhole Stock Top =

Sta 5+12.6 New RCB Precast
Begin 2nd Spec 45°∠ Turn/
with Type 'A' Manhole Stock Top =

Sta 5+19.4 New RCB Precast
End 2nd Spec 45°∠ Turn

Sta 7+23.6 New RCB Precast
Stub One Section(18"RCP-STD)
w/Temp. Plug
w/Type 'A' Manhole Stock Top=

Sta 7+69.1 New RCB Precast
Tie In Ex. 37' 2½" x 45° HERCP
w/Type 'A' Manhole Stock Top=

Sta 9+27.6 New RCB Precast
Tie In Exist. 10' x 4' RCB
10' x 4' RCB Precast

Sta 9+30.6 New RCB Precast
Stub One Section(18"RCP-STD)
w/Temp. Plug
w/Type 'A' Manhole Stock Top=

Exist 10'x4' RCB (Precast)
(Mediterranean Plaza Comm. S.W.S. #339)

Channel Flowline @ 0.40%

440.0 L.F. 10'x4' RCB (Precast) @ 0.35%
or 10'x4' RCB (Cast-in-Place)

Grouted Rip-Rap Toewall
under end section 15 Ft.
long, 2 Ft deep, 2Ft Wide

℄ Channel = 196.09
℄ Culv = 196.27 (10'x4' RCB Precast)

℄ = 196.25
℄ = 196.27 (10'x4' RCB Precast)

℄ = 196.30

℄ = 196.36 (10'x4' RCB Precast)

℄ = 196.6

℄ = 196.94

℄ = 197.03 (10'x4' RCB Precast)
℄ = 197.28 (24" RCP-N) Stub

℄ = 197.44 (10'x4' RCB Precast)
℄ = 197.91 (Exist. 29"x45" HERCP-S)

℄ = 197.69

℄ = 197.73 (New 10'x4' RCB Precast
℄ Exist = 197.79 (10'x4' RCB Precast)

℄ = 197.74 (10'x4' RCB Precast)
℄ = 197.95 (18" RCP-N) Stub

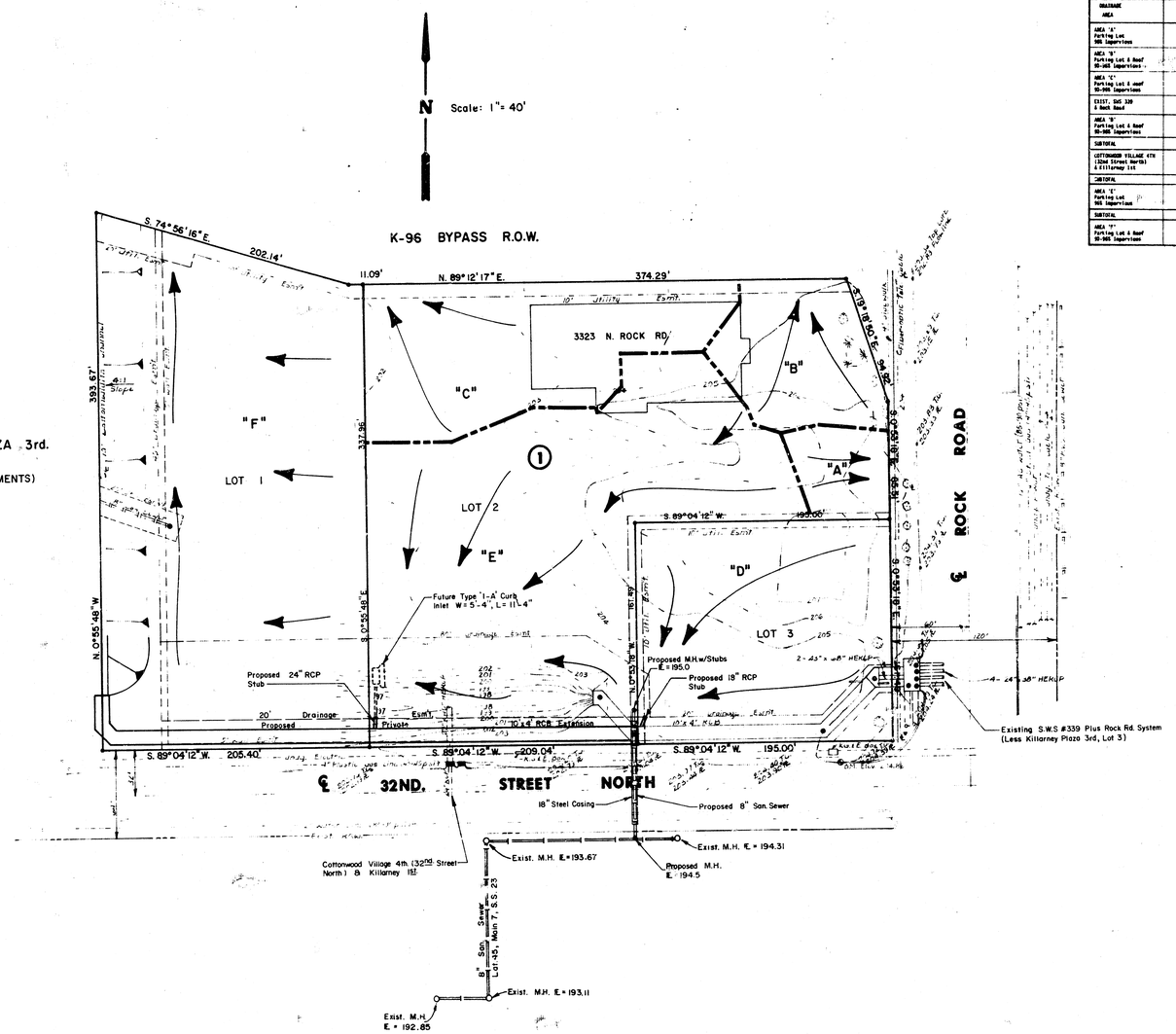
ELEVATION IN FEET (WICHITA DATUM)

210
205
200
195
190

4+80 5 6 7 8 9

MKEC

MKEC Proj. No 88-07-145.F



KILLARNEY PLAZA 4TH ADDITION

DRAINAGE AREA	AREA ACRES	AREA ACCUM.	C_5	C_{100}	Tc (Min)	I_5 (In/Hr)	I_{100} (In/Hr)	Q_5 (CFS)	Q_{100} (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'A' Parking Lot 90% Impervious	0.11		0.87	0.89	15	4.56	7.37	0.4	0.7	To Rock Road		
AREA 'B' Parking Lot & Roof 95-98% Impervious	0.19		0.86	0.91	15	4.56	7.37	1.1	1.8	To Future K-96 Ditch		
AREA 'C' Parking Lot & roof 95-98% Impervious	0.59		0.86	0.91	15	4.56	7.37	2.3	4.0	To Future K-96 Ditch		
EXIST. SWS 339 & Rock Road	47.30		0.68	0.88	29 25	3.30	5.90	136.4	247.7	Exist. 10' x 4' RCB		
AREA 'D' Parking Lot & Roof 95-98% Impervious	0.73		0.86	0.91	15	4.56	7.37	2.9	4.9	18" RCP	0.325	1 (C)-5'
SUBTOTAL		48.43	0.86	0.88	29 25	3.30	5.90	137.4	251.4	Proposed Extension 10' x 4' RCB		
COTTONWOOD VILLAGE 4TH (32nd Street North) & Killarney 1st	7.94+							23.0	44.0	Exist. 24" x 15" HERCP		
SUBTOTAL		56.37	0.86	0.89	30 26	3.24	5.79	157.1	290.5	Proposed Extension 10' x 4' RCB		
AREA 'E' Parking Lot 90% Impervious	1.43		0.87	0.89	15	4.56	7.37	5.7	9.4	24" RCP	0.215	1 (C)-10'
SUBTOTAL		57.80	0.86	0.89	30 26	3.24	5.79	160.4	297.0	Proposed Extension 10' x 4' RCB		
AREA 'F' Parking Lot & Roof 95-98% Impervious	1.74		0.86	0.91	15	4.56	7.37	6.8	11.7	To West Channel & Future K-96 Ditch		

KILLARNEY PLAZA 4th ADDITION	Design
DRAINAGE & UTILITY PLAN	Drawn by
	Checked by
	Date DEC. 1989
	Job no.

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226 682-6561

Sheet of

MKEC Proj. No. 88-07-145-A

KILLARNEY PLAZA 3RD.
(PARCEL #110, LOT 3)
PRIVATE RCB EXTENSION

KILLARNEY PLAZA THIRD ADDITION

①

LOT 2 | LOT 3

45' Drainage Easement | 45' Drainage Easement | 5' Wall Easement

Exist. 425 S.Y. Light Stone Rip-Rap Remove as needed, reshape channel & reuse

grouted rip-rap toewall 15 feet long, 2 feet deep, 2 feet wide

80' Drainage Easement

Reuse spec. 10' x 4' end section

Proposed West Restaurant Property Line

Proposed Future Curb & Gutter

Proposed Type 1-A Curb Inlet 5'-4" x11'-4"

Exist. 66 S.Y. Light Stone Rip-Rap Remove & Stockpile

Exist. 120 S.Y. Light Stone Rip-Rap Remove & stockpile

Proposed East Restaurant Property Line

Remove & reuse Spec. 10' x 4' end section

Remove spec. 45°∠ turn (opposite ℄)

Remove & reuse 5 sections 10' x 4' RCB-Precast

Remove & reuse Spec. 45°∠ turn

Stub One Section 18" RCP w/Temp. Plug

20' Drainage Easement

Exist. 10' x 4' RCB (Precast) (Mediterranean Plaza Commercial S.W.S. #339)

Rock Road R.O.W. Line

NOTE: Fill existing channel with excess material on site & contractor supplied fill
Contractor shall compact fill (90% of standard protor compaction: ASTM D-698)

Exist. 10-Ft Bottomwidth Channel

Leave toe walls in place (abandon)

Sta 4 + 87.6

Sta 5 + 05.6

R.O.W. Line

Transformer

Stub One Section 24" RCP w/Temp. Plug

℄ 32 ND. STREET

Type 'B' Manhole Stack Top = 203.20

Type 'B' Manhole Stack Top = 203.90

NORTH

Scale: 1" = 20' Horiz.
1" = 5' Vert.

New spec 45° ∠ turn/with type 'A' manhole stack
Top of manhole = 202.50

Reuse spec 45° ∠ turn/with tyue 'A' manhole stack
Top of manhole = 202.50

RCB NOTE:
Precast Barrel Sections: The precast concrete barrel sections shall conform to the ASTM C-65C specifications. If contractor decides to build cast-in-place RCB, plans need to be reviewed by the engineer. RCB may be extended again in future Cost of special 45° ∠ turns shall be included in the linear foot cost of the precast 10' x 4' RCB

Remove excess 29" x 45" HERCP
Need to tie exist 29" x 45" HERCP into new 10' x 4' RCB
And provide type 'B' manhole stack access point Top = 203.20

Sta 4+14.5 = Sta 4+50.0 (Exist)

Sta 4+64.5 = Sta 5+00.0 (Exist)

Sta 4+87.6 New RCB Precast Reuse of Precast RCB Reuse Spec End Section

Sta 5+05.6 New RCB Precast Begin Spec 45°∠ Turn Type 'A' Manhole Stock Top=202.50

Sta 5+42.6 New RCB Precast Begin 2nd Spec 45°∠ Turn with Type 'A' Manhole Stock Top=202.50

Sta 5+78.6 New RCB Precast End 2nd Spec 45°∠ Turn

Sta 7+23.6 New RCB Precast Stub One Section 24" RCP w/Temp Plug w/Type 'B' Manhole Stock Top=203.20

Sta 7+81.1 New RCB Precast Tie In Exist 24" x 45" HERCP w/Type 'B' Manhole Stock Top=203.20

Sta 9+23.6 New RCB Precast Tie into 1 North Exist. 10' x 4' RCB Precast

Sta 9+80 New RCB Precast Stub One Section (18" RCP-NO Std) w/Temp Plug w/Type 'B' Manhole Stock Top=203.50

Top Of Parking Curb
℄ Parking
Curb Section

Top Of Curb-North Side-32nd St. No.

Top Slab Of 10'x4' RCB (10')

Top Exist M.H.=204.00

Exist 10'x4' RCB (Precast) (Mediterranean Plaza Comm. SWS #339)

Channel Flowline @ 0.40%

Bottom Slab Of 10'x4' RCB (7')

440.0 L.F. 10'x4' RCB (Precast) @ 0.35% or 10'x4' RCB (Cast-In-Place)

Grouted Rip-Rap Toewall under end section 15 ft long 2 Ft deep, 2ft Wide

℄ Channel = 196.09
℄ Out = 196.21 (10'x4' RCB Precast)
℄ = 196.25
℄ = 196.27 (10'x4' RCB Precast)
℄ = 196.30
℄ = 196.32 (10'x4' RCB Precast)
℄ = 196.6
℄ = 196.96
℄ = 197.03 (10'x4' RCB Precast)
℄ = 197.28 (24" RCP-NO Stub)
℄ = 197.23 (10'x4' RCB Precast)
℄ = 197.63
℄ = 197.73 (New 10'x4' RCB Precast)
℄ Exist = 197.93 (10'x4' RCB Precast)
℄ = 197.74 (10'x4' RCB Precast)
℄ = 197.95 (18" RCP-NO Stub)
℄ = 195.8
℄ = 196.0

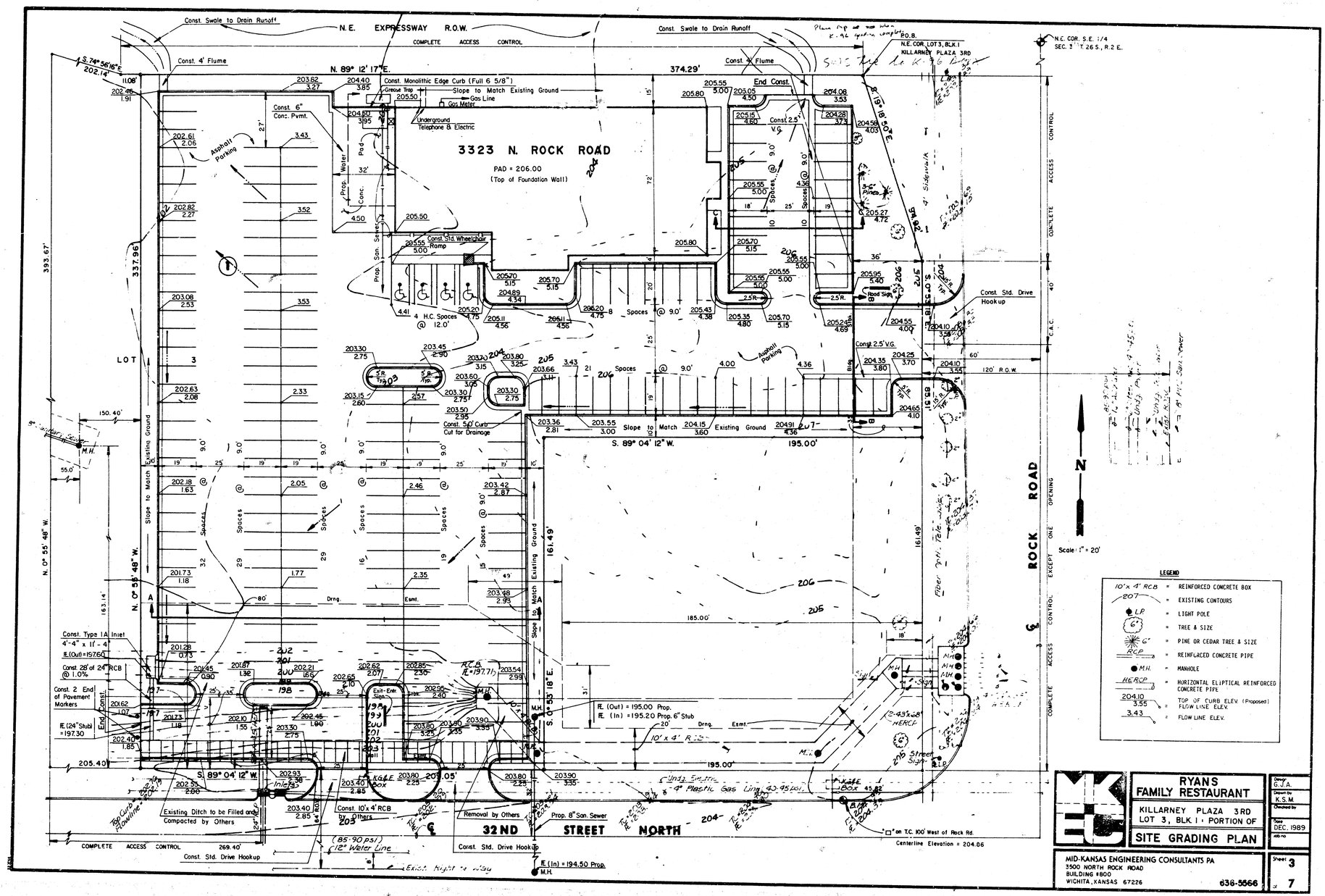
ELEVATION IN FEET (WICHITA DATUM)

210 | 205 | 200 | 195 | 190

4+80 | 5 | 6 | 7 | 8 | 9

MKEC

MKEC Proj. No. 08-07-145 F


Const. Swale to Drain Runoff
N. E. EXPRESSWAY R.O.W.
COMPLETE ACCESS CONTROL
Const. 4' Flume
S. 74° 56' 16" E. 202.14'
N. 89° 12' 17" E.
374.29'
Const. Monolithic Edge Curb (Full 6 5/8")
Slope to Match Existing Ground
Grease Trap
Gas Meter
Gas Line
Underground Telephone & Electric
Const. 6" Conc. Pvmt.
Asphalt Parking
3323 N. ROCK ROAD
PAD = 206.00
(Top of Foundation Wall)
Prop. Water
Prop. Conc. Pad
Prop. San. Sewer
Const. Std. Wheelchair Ramp
4 H.C. Spaces @ 12.0'
Spaces @ 9.0'
End Const.
Const. 2.5' V.G.
Const. Std. Drive Hook up
Road Sign
Const. Swale to Drain Runoff
Const. 4' Flume
P.O.B.
N.E. COR. LOT 3, BLK. 1
KILLARNEY PLAZA 3RD
N.C. COR. S.E. 1/4
SEC. 3 T. 26 S., R. 2 E.
S. 19° 18' 50" E. 374.82'
4' Sidewalk
3" Pines
Const. Std. Drive Hook up
120' R.O.W.
LOT 3
150.40'
393.67'
337.96'
55.0'
M.H.
Slope to Match Existing Ground
N. 0° 55' 48" W.
163.14'
Const. Type 1A Inlet 4'-4" x 11'-4"
R.(Out)=157.60
Const. 28' of 24" RCP @ 1.0%
Const. 2 End of Pavement Markers
R.(24" Stub) = 197.30
End Const.
205.40'
S. 89° 04' 12" W.
202.93 2.38 Inlet
Const. 10'x 4' RCB by Others
Existing Ditch to be Filled and Compacted by Others
Const. Std. Drive Hookup
COMPLETE ACCESS CONTROL 269.40'
(85-90 psi) 12" Water Line
Exist. right of way
Removal by Others
Prop. 8" San. Sewer
32ND STREET NORTH
E. (In) = 194.50 Prop. M.H.
Const. 5.0' Curb Cut for Drainage
Const. 2.5' V.G.
S. 89° 04' 12" W. 195.00'
Slope to Match 204.15 Existing Ground
161.49'
N. 0° 55' 48" W.
185.00'
R.C.B. (E=197.71)
E. (Out) = 195.00 Prop.
E. (In) = 195.20 Prop. 6" Stub
Drng. Esmt.
10'x 4' R.C.B.
12-45"x28" HERCP
Street Sign
Centerline Elevation = 204.86
ROCK ROAD
COMPLETE ACCESS CONTROL ONE OPENING
COMPLETE ACCESS CONTROL 40' C.A.C.
Fiber Optic Tele. Cable
Underg. Elec. Pwr.
Underg. Tele. Cable
Underg. Gas Line (40-95 psi)
8" Plastic Gas Line
N
Scale: 1" = 20'
LEGEND
10'x 4' RCB = REINFORCED CONCRETE BOX
207 = EXISTING CONTOURS
LP = LIGHT POLE
6" = TREE & SIZE
6" RCP = PINE OR CEDAR TREE & SIZE
RCP = REINFORCED CONCRETE PIPE
M.H. = MANHOLE
HERCP = HORIZONTAL ELIPTICAL REINFORCED CONCRETE PIPE
204.10 / 3.55 = TOP OF CURB ELEV. (Proposed) / FLOW LINE ELEV.
3.43 = FLOW LINE ELEV.
RYANS FAMILY RESTAURANT
KILLARNEY PLAZA 3RD LOT 3, BLK. 1 PORTION OF
SITE GRADING PLAN
Design G.J.A.
Drawn by
Checked by K.S.M.
Date DEC. 1989
Job no
Sheet 3 of 7
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566