

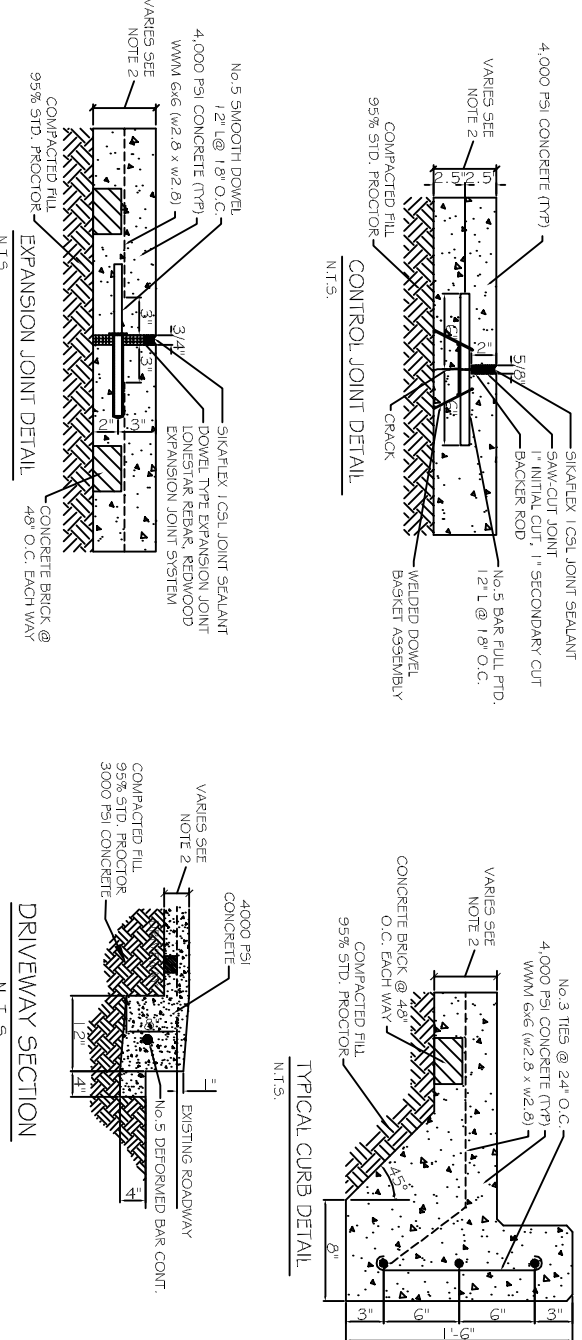
PAVING & DRAINAGE PLAN
SCALE: 1" = 10'

PAVING NOTES:

- 1) ALL NEW CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 5". CONCRETE MIX SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM C-150 TYPE 1.
- 2) CONCRETE PAVING THICKNESS SHALL VARY AS FOLLOWS:
 - a) APPROX = 7" THICKNESS
 - b) DRIVEWAYS = 6" THICKNESS
 - c) PARKING AREAS = 5" THICKNESS
- 3) ALL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
- 4) ALL REINFORCING STEEL SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT. ALL CONTROL AND EXPANSION JOINTS SHALL BE LOCATED AND INSTALLED AS SHOWN ON THE PAVING PLAN AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 5) ALL SUB GRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6" LIFTS.
- 6) CONTRACTOR SHALL CONTACT THEIR REGULATORY DEPARTMENT OF ENGINEERING PRIOR TO CONDUCTING ANY WORK.
- 7) ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR APPROVAL FROM THE CITY TRAFFIC ENGINEERING DIVISION, AND MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

DRAINAGE PLAN NOTES:

1. DRAIN PIPE & FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
2. ELEVATIONS SHOWN ARE M.S.L.
3. FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
4. THERE IS NO DRAINAGE OF EXISTING OFF-SITE FLOW CROSSING THE PROPERTY.



LEGEND

- PROPERTY LINE
- SETBACK LINE
- - - CONTROL JT. 10'x15'
- - - EXPANSION JT. 30'x45'
- ➔ SHEET FLOW ARROW
- # 0.00' - INVERT ELEVATION
- # 0.00' - TOP OF GRATE ELEVATION
- 00.00 - NEW ELEVATION

PROJECT: Feast Catering

DRAINAGE RUN OFF CALCULATIONS - RATIONAL METHOD
PRIOR DEVELOPMENT
10 Year Frequency

Q = CIA

Watersight Surfaces	c(1) = 0.9	0	sqft = 0.000 Acres
Gravel Surface	c(2) = 0.14	0	sqft = 0.000 Acres
Green Space	c(3) = 0.21	10500	sqft = 0.241 Acres
Summary	c = 0.21	10500	sqft = 0.241 Acres

Duration (D) = Time of concentration (TC)
 $TC = 7039(L \wedge 0.3917)(c \wedge -1.1309)(S \wedge -1.985)$
 where
 L = 150
 c = 0.21
 S = 1.3333
 therefore
 TC = D = 4.50
 and from Rainfall Intensity Table I = 4.50

Q = 0.228 cfs **RUNOFF LIMIT%** **0.205 cfs**
POST DEVELOPMENT
 10 Year Frequency

Watersight Surfaces	c(1) = 0.9	8968	sqft = 0.206 Acres
Gravel Surface	c(2) = 0.14	0	sqft = 0.000 Acres
Green Space	c(3) = 0.21	1532	sqft = 0.035
Summary	c = 0.80	10500	sqft = 0.241 Acres

D = Time of concentration (TC)
 $TC = 7039(L \wedge 0.3917)(c \wedge -1.1309)(S \wedge -1.985)$
 where
 L = 109
 c = 0.80
 S = 0.4587
 therefore
 TC = D = 6.65
 and from Rainfall Intensity Table I = 7.60

RESULTS

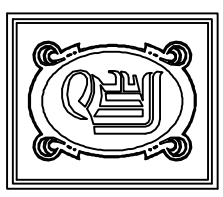
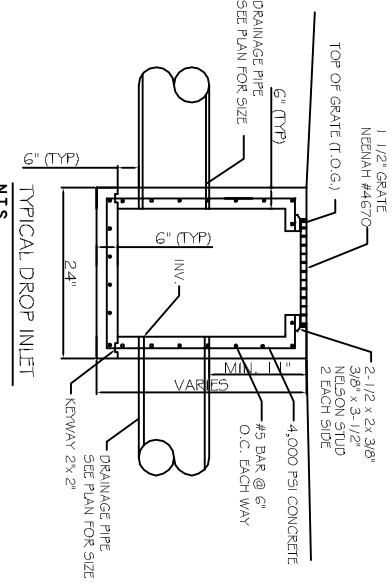
Q = 1.464 cfs

DETENTION REQUIRED	1.259cfs
ONE HOUR DETENTION	4533.5cfs
DETENTION DIMENSIONS	64feet
	106feet
	0.65feet

DISCHARGE END AREA CALCULATIONS

Q = cA(2gH)^{1/2}
 where Q is allowable run off
 Q = 0.205 cfs
 c = 0.98 coefficient
 g = 32.2 ft/sec
 Height above invert
 A = 2.00 sqft

REQUIRED CONDUIT = 1.84 inch diameter
 USE 4 inch orifice



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FEAST CATERING NEW ADDITION

109 TAOS STREET SLIDELL LA

PAVING AND DRAINAGE PLAN

REV: _____
 SCALE: AS NOTED
 JOB#: 2140
 DATE: 04-20-12
 SHEET
C-2
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