AIR QUALITY DETENTION POND

Table AQP - Air Quality Pond (Plans and as-builts included)

Hydraulic Assumptions for Orifice Flow and Weir Flow (8 ft. x 8 ft. Steel Grate Principal Spillway)

SWMM Model Dynamic Routing

An elevation – discharge – storage rating curve is required to simulate a detention pond routing. Basic initial assumptions regarding orifice or weir flow for various outfall structures are required. However, during a model simulation, the hydraulics and hydraulic grade line of the outfall storm drain may limit the discharge from the pond as defined by the rating curve. Therefore, weir flow assuming free un-submerged discharge may be valid for small storms and most of the hydrograph of a larger storm, but could become submerged for some time during a large storm hydrograph and again become un-submerged during the receding hydrograph limb.

Therefore, the flow type is most likely variable and complex, and an assumption is required to develop an initial rating curve, based on what type of flow may be predominant for the given situation and storm return period simulated.

This analysis has assumed that the predominant flow for the 8 ft. x 8 ft. principal spillway is un-submerged weir flow.

Orifice Flow

Storm drain pipes and small water quality pipes (slanted small pipes in concrete walls) are computed with the orifice equation using partial pipe areas for a given water depth until pipe is submerged, then the full pipe area is applied untill the maximum pond water depth to obtain the rating curve upper limit. Table ACP attached defines the orifice equation(s), coefficient and presents the computation results.

Weir Flow (Principal Spillway Grate and Top of Pond Embankment)

A weir operates as a function of head on the weir and weir length perpendicular to flow, and for this analysis a free fall discharge is assumed. Velocity after the water fall is therefore not a factor for the free fall assumption. As described previously, an assumption of weir submergence should be considered for the weir free fall assumption to remain valid. Depending on the structure configuration, a submerged weir could act as an orifice.

The vertical concrete wall that supports the 8 ft. x 8 ft. grate will act as the weir crest. Comparison of the top of pond and grate elevations follows:

Top of Pond Elevation	=	4962.66 ft
Top of Grate Elevation	=	4958.36 ft
Difference	=	4.3 ft

Note – Initial 100-yr. storm pond routings indicate maximum depth much less than this difference.

Assuming that the outfall storm drain does not cause hydraulic interference with the principal spillway grate free flow assumption, then three to four feet of water will immediately gravity fall from one side of the concrete wall into the grate far before the water would intersect water falling from the adjacent walls. Some inefficiency of the weir flow would occur at each corner, as the flow from

adjacent walls will intersect during the fall. Therefore, adjustment for weir flow inefficiency due to flow intersection may be simulated through the weir coefficient.

Weir Coefficient

The vertical concrete walls and flat top of walls (1 – foot wide = breadth of weir crest) that hold the 8 ft. x 8-ft. grate are assumed to act as broad crested weirs. The weir coefficient for 1-foot bread and 3 feet of head is 3.32 as presented in Table 5-3 from "Handbook of Hydraulics", Sixth Edition, by Brater & King, 1976. Smith Engineering Company assumed a reduced weir coefficient of 3.0 to account for weir inefficiency as described above. Table ACP attached defines the weir flow equation, coefficient and presents the computation results.

Conclusion – Assume that the principal spillway 8 ft. x 8 ft. grate will act a free fall weir and the grate bar spacing even with some debris, will not affect the weir flow computation.

See Table ACP and as-builts / plans attached for more information.

AIR QUALITY DETENTION POND

DATA and POND ROUTING DATA / COMPUTAIONS

Pond Annotated Photographs: 5 Pages attached

Elevation-Storage-Discharge: Data table for SWMM model attached

Pond Design Report or Pond Routing Model Available to adopt the Pond Elevation – Area – Discharge Rating Curve Data:

COA stated: Not Available

Pond As-Built Plans Available:

COA stated either: Yes Is Available

Pond Construction Plans Available if no As-Built Plans :

COA stated: Yes Available

***Elevation is datum 1929 NGVD from construction docs - Benchmark "1-K13"**
Conversion Factor from 29 datum to 88 datum = 2.66 feet (attached)

SEC Assumed Elevations for Principal and Emergency Spillways based on:
2007 Lidar Elevations, No

Was Pond Designed as a Surge Pond ? N

Pond Plan and Profile Schematic View Sketch:
Attached Y, Vertical Datum 88, 1 Pages attached

Public: Yes

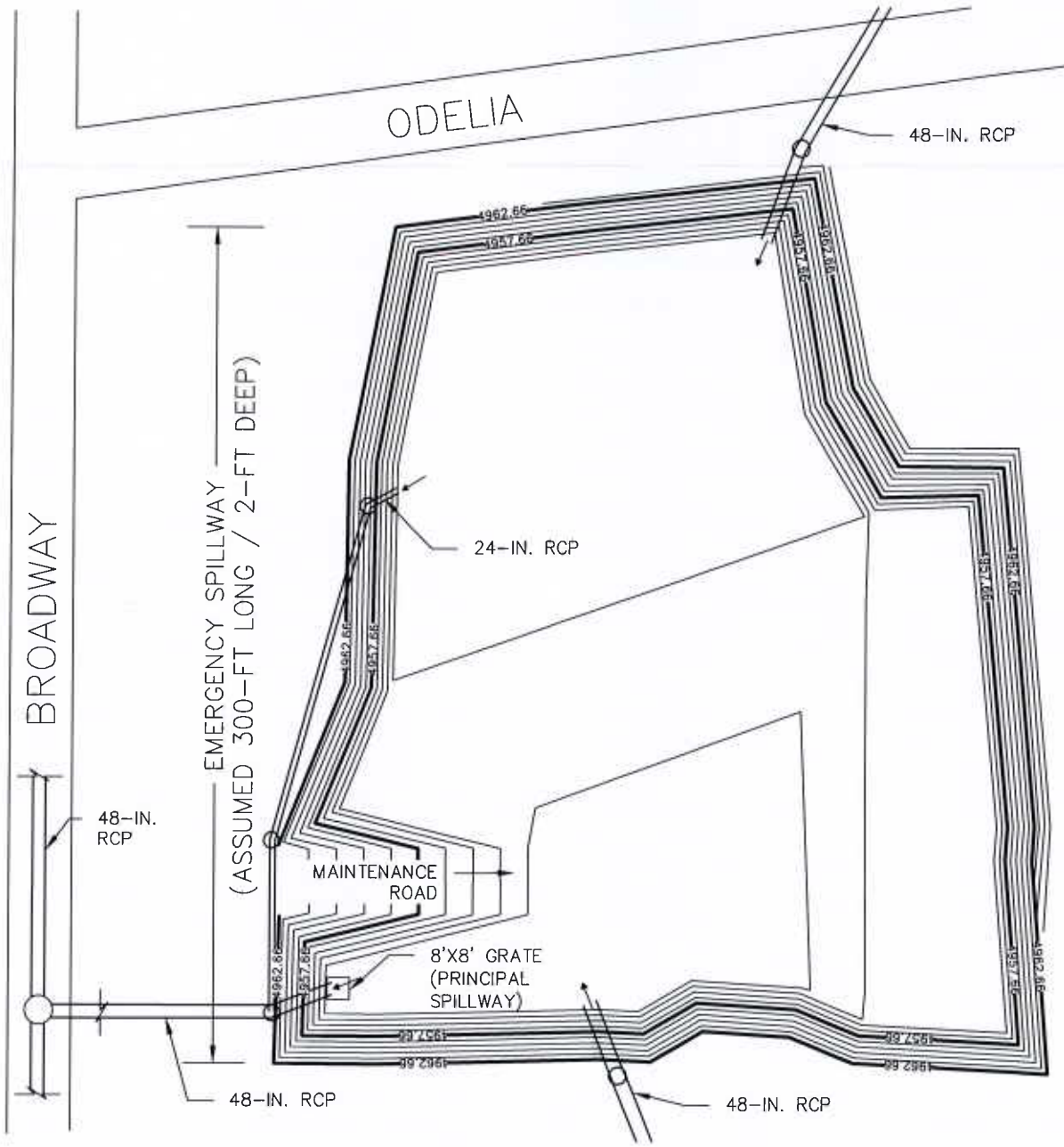
Pond has Retention ? No

Pond has surface Inflows? Yes
Surface rundown into pond?: No

Pond has how many storm drain inflows? 2 (see plans and schematic attached)

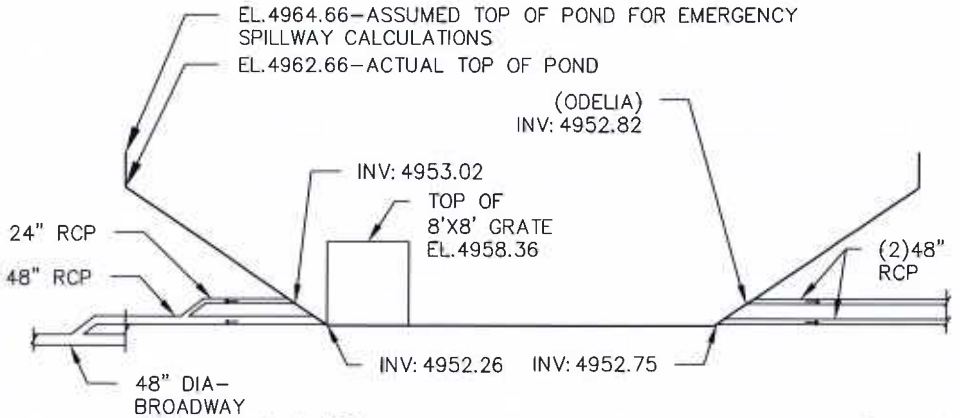
Emergency Spillway:
Actual Emergency Spillway: No (see schematic attached for dimensions)
If No SEC assumed an emergency spillway
(see schematic attached or Table of Elevation – Storage –Discharge Data for assumed dimensions)

Principal Spillway:
Pipe at invert of pond: Yes (if above invert then there is retention)
Vertical Riser Pipe or Structure: Yes
See plans and photos



AIR QUALITY POND PLAN

0 40' 80Feet



AIR QUALITY POND PROFILE

NOT TO SCALE

NAVD 88 DATUM

MID-VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE & ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

August – 2011

SEC PROJECT NO. 110112

AIR QUALITY POND P&P SCHEMATIC FIGURE AQP

Q:\SEC---PROJECTS\2010 PROJECTS\110112 COA MID VALLEY DMP\DMP APPENDICES VOLUME 3\APPENDIX 7 SWMM EXISTING CONDITIONS\SWMM DATA\POND PLAN AND PROFILE SCHEMATICS.DWG

Smith Engineering Company

2/15/2012

TABLE AQP
AIR QUALITY POND revision 2
ELEVATION-STORAGE-DISCHARGE DATA (c)

grey box means must input data

Contour Elevation NGVD 1929	Contour Elevation NAVD 1988	Depth SWMM	Contour Area SWMM	Incremental Volume	Incremental Volume	Cumulative Volume	A Riser Discharge (1st row of orifices)	A Riser Discharge (2nd row of orifices)	A Riser Discharge (8'x8' grate)	Outfall Pipe Principal Discharge (48" RCP)	Principal Spillway Box Discharge	Outfall Pipe Discharge (24" RCP)	Emergency Spillway Discharge	Total Discharge (Riser Discharge + 24" RCP + Emergency Spillway) SWMM	Comment
			Principal Spillway Orifice Diameter (inches)				8	8		48		24			
			Number of Orifices				12	12		1		1			
(ft)	(ft)		(sq ft)	(cu ft)	(ac-ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
	(d)						(a)	(a)	(b)	(a) (e)		(a)	(b)		
4949.6	4952.26	0	0	0	0.0000	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Pond bottom. 48" SD pipe invert, invert of first row of orifices (12 total)
4950.36	4953.02	0.76	9423	3581	0.0822	0.0822	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	24" RCP SD pipe invert
4951	4953.66	1.4	18846	9046	0.2077	0.2899	12.6	0.0	0.0	22.0	12.6	3.3	0.0	15.9	
4952	4954.66	2.4	45088	31967	0.7339	1.0237	23.5	0.0	0.0	57.8	23.5	16.7	0.0	40.3	
4952.6	4955.26	3.0	50289	28613	0.6569	1.6806	28.1	0.0	0.0	83.0	28.1	22.3	0.0	50.4	Invert of second row of orifices (12 total)
4953	4955.66	3.4	55489	21155	0.4857	2.1663	30.8	0.0	0.0	99.6	30.8	24.2	0.0	55.0	
4954	4956.66	4.4	57941	56715	1.3020	3.4683	36.6	12.6	0.0	125.0	49.2	28.4	0.0	77.6	
4955	4957.66	5.4	60383	59162	1.3582	4.8264	41.7	23.5	0.0	138.5	65.2	32.1	0.0	97.3	
4955.70	4958.36	6.1	61601	42694	0.9801	5.8066	44.9	28.8	0.0	147.2	73.7	34.4	0.0	108.1	Top of 8'x8' outlet grate (Principal Spillway)
4956	4958.66	6.4	62819	18663	0.4284	6.2350	46.2	30.8	15.8	150.8	92.7	35.4	0.0	128.1	
4957	4959.66	7.4	65265	64042	1.4702	7.7052	50.3	36.6	142.3	162.1	162.1	38.4	0.0	200.5	
4958	4960.66	8.4	67717	66491	1.5264	9.2316	54.0	41.7	334.9	172.7	172.7	41.2	0.0	213.9	
4959	4961.66	9.4	70160	68939	1.5826	10.8142	57.6	46.2	575.5	182.7	182.7	43.8	0.0	226.5	
4960	4962.66	10.4	72561	71361	1.6382	12.4524	60.9	50.3	856.0	192.2	192.2	46.3	0.0	238.5	Emergency spillway invert elevation (f)
		Total Volume (ft^3) =		542429											
		Total Volume (ac-ft) =		12.45											

(a) Orfice flows were obtained from the use of Equation 4-10 and Table 4-3 from "Handbook of Hydraulics, Sixth Edition, by Brater & King, 1976."

$$Q = Ca\sqrt{2gh}$$ C = 0.591 g=32.2 ft/sec^2, a=area (sq ft) h=head (ft)

$$a = \pi D^2/4$$ (full area formula)

$$a = \frac{1}{2}r^2\left\{\left[2\cos^{-1}\left(\frac{r-d}{r}\right)\right]\frac{\pi}{180} - \sin\left[\left[2\cos^{-1}\left(\frac{r-d}{r}\right)\right]\frac{\pi}{180}\right]\right\}$$

(partial area formula)

Principal Spillway Orifice radius r in feet **(D)** = 1.0
Principal Spillway Orifice radius r in feet **(E)** = 2.0
= depth of water in the pipe in feet

(b) Emergency Spillway flows were computed based on the following data used in the weir equation
Q = CLH^ C = discharge coeffient, L = spillway length perp. To flow in ft, H = head (ft)
C = 3 L = 300 Spillway El 4962.66
L = 32 8'x8' grate

(c) Data Source : As-Builts and plans provided by City of Albuquerque included in Appendix

(d) NGVD 1929 to NAVD 1988 ConversionFactor= 2.66

(e) The two rows of orifices with the 8 x 8 grate (A), will govern discharge until the 48-inch pipe becomes fully submerged, when sum of A's is greater than 54-inch pipe capactity then 54-inch pipe capactiy governs discharge

(f) Length assumed along top of pond and elevations extended above emergency spillway to allow for rating curve to function if flow spills over top

VERTICAL DATUM CONVERSION - NGVD 1929 to NAVD 1988

Benchmark "1-K13"

Std. Acs Brass Tablet Stamped "1-K13"
Set In Top Of A Concrete Post, Approx. 0.2-Ft Below Turf.
The Station Is Then 0.7-Ft West Of The West Curb On 8th Street,
And Is Approx. 225' South Of Stover Ave.
Elevation = 4944.03-Ft.

Questions Concerning the VERTCON process may be mailed to NGS:

Latitude: 35 04 44.0

Longitude: 106 39 27.0

NGVD Height: 4950.0 FT

Datum Shift (NAVD 88 minus NGVD 29): 2.664 feet

Converted to NAVD 88 height: 4952.664 feet

Conversion Data From:

http://www.ngs.noaa.gov/cgi-bin/VERTCON/vert_con2.prl

(1) East side of Air Quality Pond

(2) Northeast Corner of Air Quality Pond

(3) Northeast corner inlet structure

(4) South side inlet structure

(5) South side inlet structure (2)

(6) West side outlet structure

(7) West side principal outlet structure

(8) West side principal outlet structure (2)

(9) West side principal outlet structure (3)

(10) West side ramp

NMDOT 8th ST. and I-40

RETENTION / DETENTION POND

Table 8P – NMDOT 8th St. & I-40 Retention / Detention Pond

NOTE – This pond not modeled with a detention pond routing

TABLE 8P

NMDOT RETENTION / DETENTION POND at 8th St. and I-40 East Bound Frontage Road (d)

ELEVATION-STORAGE-DISCHARGE DATA (c)

NOTE - This pond was NOT MODELED AS A POND IN SWMM, The RETENTION VOLUME IS INCLUDED IN THE SUBCATHCMENT DATA as Additional Depth of Depression Storage on the Impervious Area in Subcatchment B41 that is 94% impervious

Retention Vol. ac-ft =	2.5903	Basin Area ac. =	24.82
		94% of Basin Area ac.=	23.33
Convert Retention Pond Volume to Equivalent Depth inches =			1.33 Add this to SWMM
Impevious Typical depression storage assume is 0.1 in. therefore			

THEREFORE now use this value for Impervious depth of depression storage for Subcatchment B41 **1.43 inches**

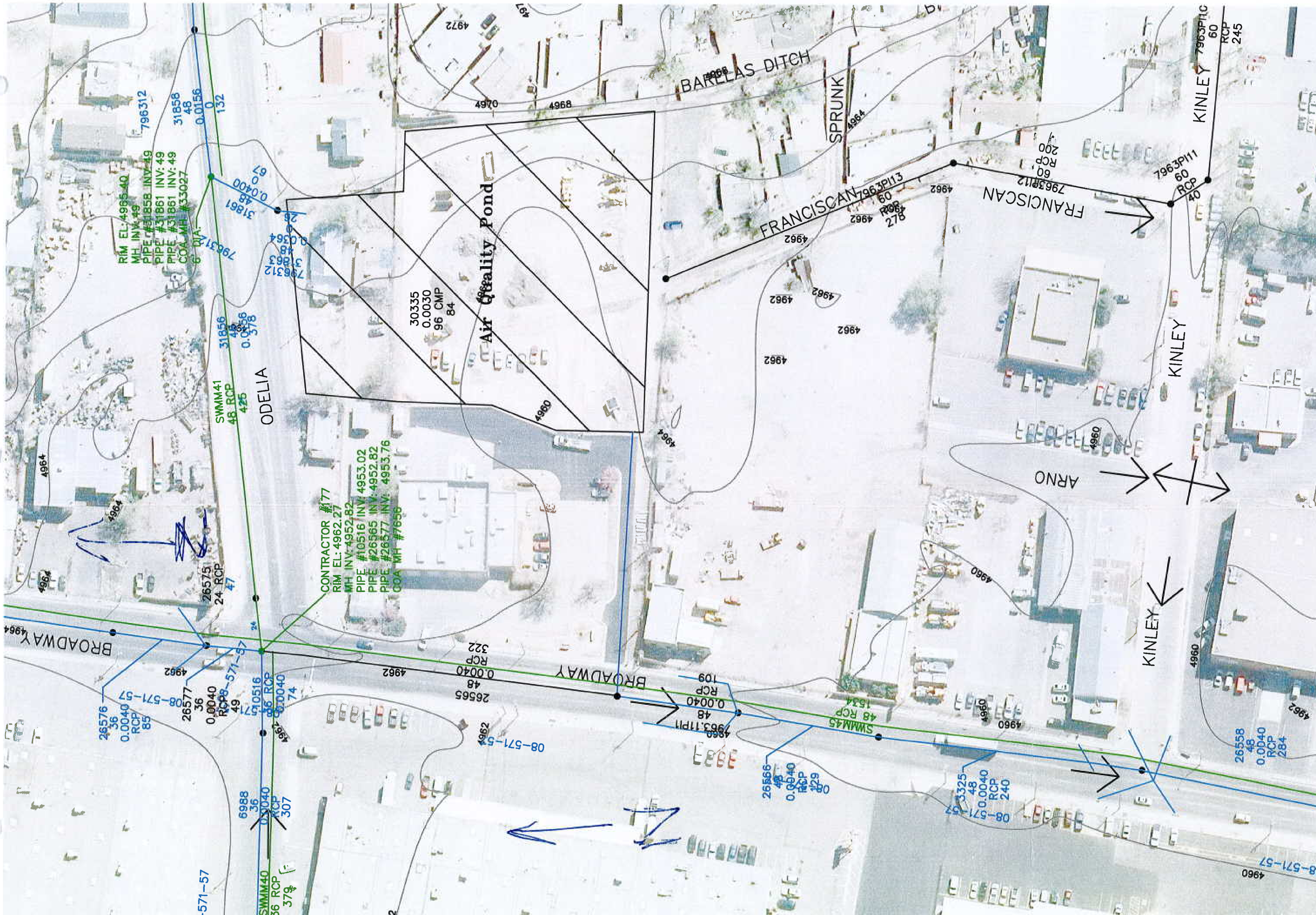
grey box means must input data

Contour Elevation	Depth SWMM	Incremental Depth	Contour Area SWMM	Incremental Volume	Incremental Volume	Cumulative Volume	Comment
(ft)			(sq ft)	(cu ft)	(ac-ft)	(ac-ft)	
0			0			0.0000	
4956	0	0	0	0	0.0000	0.0000	
4958	2	2	25776	25776	0.5917	0.5917	
4960	4	2	30640	56416	1.2951	1.8869	
4961	5	1	30640	30640	0.7034	2.5903	invert elevation of 24-inch outfall pipe (d)
4962	6	1	40283	35462	0.8141	3.4044	
4964	8	2	59696	99979	2.2952	5.6996	Emerg. Spill. Elev. (only soil top of pond)

(d) This pond has a 24-inch dia. principal spillway pipe that has a steel plate on the top half of the pipe to restrict flows. This pipe invert is located at about 1/2 of the pond depth. Therefore, the pond volume below the 24-inch pipe invert is RETENTION and will perolate and evaporate.

Area - Elevation Data obtained from contours on the drainage basin map (generated from Lidar)


24'
flow cannot go
© 2010 Google
Google
N


Air Quality Pond
30335
0.0030
96 CMP
84
BARELAS DITCH
SPRUNK
FRANCISCAN
KINLEY
ARNO
ODELIA
BROADWAY
SWMM41
48 RCP
425
SWMM45
48 RCP
1534
SWMM40
36 RCP
379
RIM EL: 4965.40
MH INV: 49
PIPE #31858 INV: 49
PIPE #31861 INV: 49
PIPE #31861 INV: 49
COA MH #33027
6' DIA.
CONTRACTOR #177
RIM EL: 4962.27
MH INV: 4952.82
PIPE #10516 INV: 4953.02
PIPE #26565 INV: 4952.82
PIPE #26577 INV: 4953.76
COA MH #7656
31858
48
0.0156
132
31856
48
0.0156
378
26565
48
0.0040
RCP
322
7963PI13
60
RCP
278
7963PI12
60
RCP
200
7963PI11
60
RCP
40
26558
48
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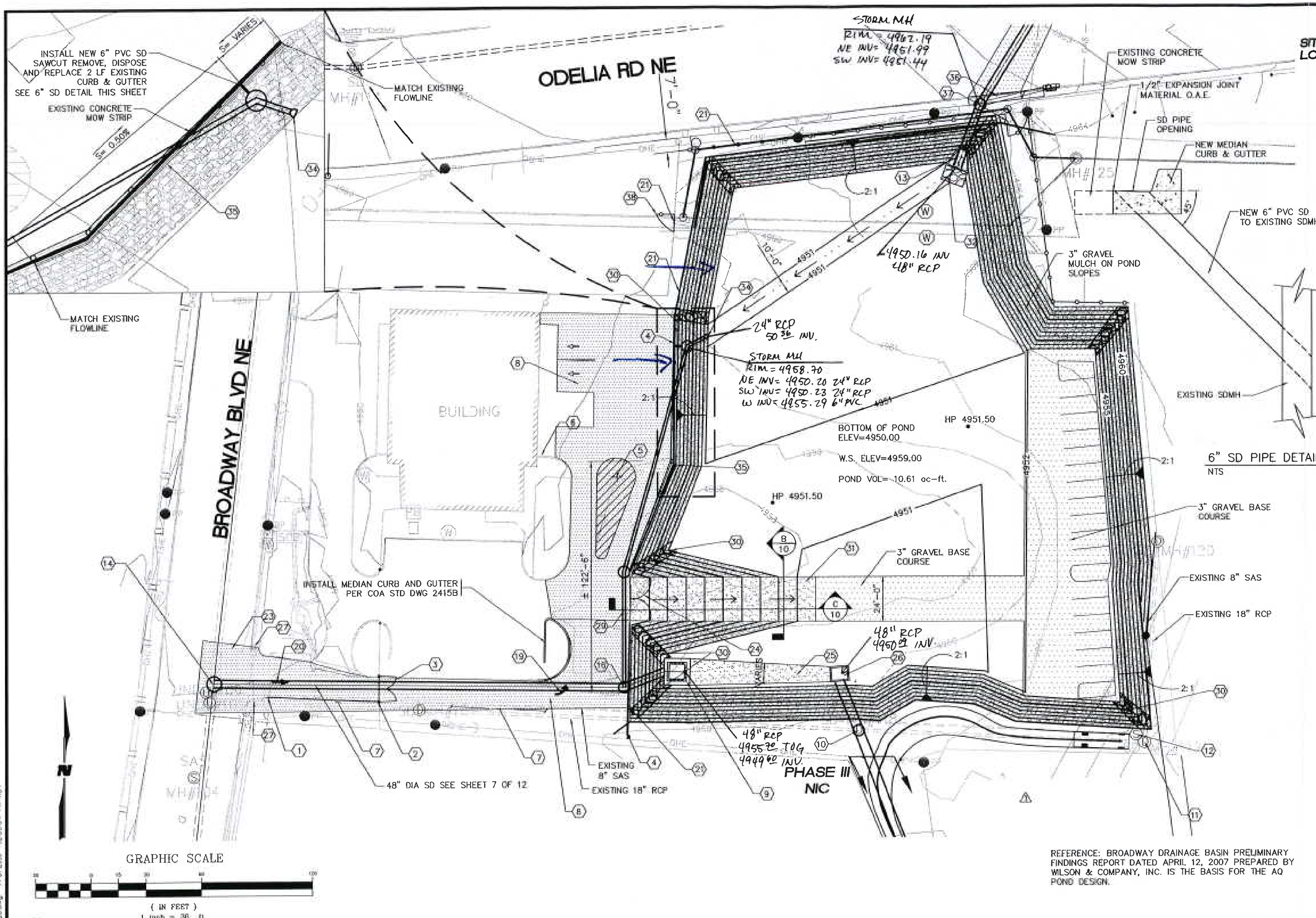
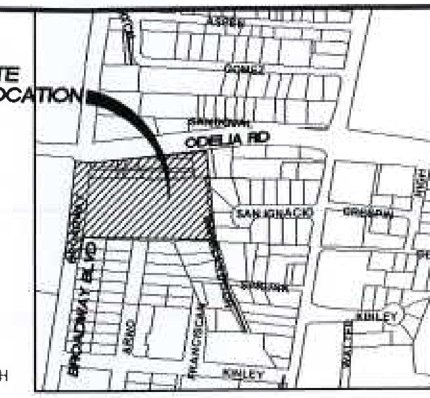
284
08-571-57
4960
4962
4964
4968
4970

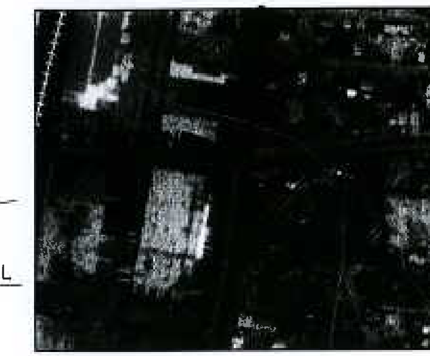


REFERENCE: BROADWAY DRAINAGE BASIN PRELIMINARY FINDINGS REPORT DATED APRIL 12, 2007 PREPARED BY WILSON & COMPANY, INC. IS THE BASIS FOR THE AQ POND DESIGN.



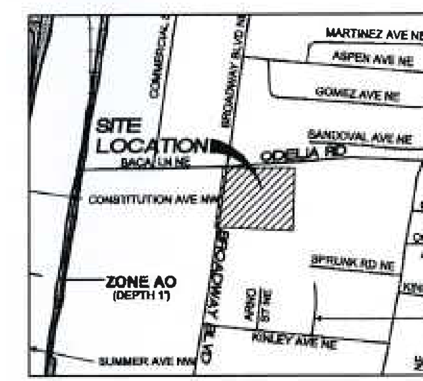
LOCATION MAP

ZONE ATLAS MAP NO. J-14-Z



SOILS MAP

REFERENCE: US DEPARTMENT OF AGRICULTURE NRCS WEB SOIL SURVEY



FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY PANEL 35001C0332E

RECORD DRAWING DATE 8/4/10

KEY NOTES

1. APPROXIMATE Northing = 1491238.2030 Easting = 1523247.8990 INSTALL ½" BITUMINOUS EXPANSION JOINT. BEGIN NEW MEDIAN CURB & GUTTER
2. APPROXIMATE Northing = 1491235.2900 Easting = 1523306.9340 END MEDIAN CURB & GUTTER. TAPER END AT 1:1
3. RESET EXISTING CHAIN LINK GATE & FENCE
4. INSTALL CONCRETE MOW STRIP PER COA STD DWG 2426
5. CONTRACTOR SHALL PROTECT EXISTING PARKING LOT LIGHTING
6. CONTRACTOR SHALL PROTECT EXISTING CONCRETE CURB
7. RESTORE GRAVEL LANDSCAPE AFTER SITE WORK GRADING & PAVING IS COMPLETE
8. INSTALL 3" ASPHALT PAVEMENT PER DETAIL SHEET 10
9. INSTALL 1-10'X10'X6' POND RISER SEE DETAIL SHEET 11
10. REBUILD WITH 6' DIA SD MANHOLE
11. EXISTING SD MH ADJUST RIM TO GRADE ±4964.01
12. EXISTING SAS MH ADJUST RIM TO GRADE ± 4963.38
13. INSTALL ODELIA OUTFALL DETAIL SEE SHEET 12
14. INSTALL 1-TYPE E 8' DIA. SD MH PER COA DWG 2102
15. INSTALL 20 LF STANDARD CURB AND GUTTER PER COA STD DWG 2415B
16. INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102
17. INSTALL 20 LF 4' CONCRETE SIDEWALK PER COA STD DWG 2430
18. INSTALL 1-SINGLE A SD INLET PER COA STD DWG 2201
19. INSTALL 1 4'-0" H LEFT TURN ONLY ARROW
20. INSTALL 1 4'-0" H DIRECTIONAL ARROW
21. INSTALL 6'-0" H CHAINLINK FENCE PER DETAIL SHEET 10
22. INSTALL 24'-0" WIDE DOUBLE SWING GATE
23. SAW CUT, REMOVE, DISPOSE & REPLACE BROADWAY BLVD NE PAVEMENT TO FULL DEPTH
24. 24'-0" WIDE CHAINLINK GATE
25. INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421
26. INSTALL OUTFALL PAD PER DETAIL SHEET 12
27. INSTALL UNIDIRECTIONAL ADA RAMP PER COA STD DWG 2426
28. RELOCATED STORAGE CONTAINER
29. 18" RCP PER DETAIL SHEET 7A
30. RIP RAP RUNDOWN PER SHEET 10
31. CONCRETE RAMP PER DETAIL SHEET 10
32. RIP RAP OUTFALL PER DETAIL SHEET 10
33. INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102 & DETAIL SHEET
34. INSTALL 18" END SECTION
35. INSTALL MEDIAN CURB AND GUTTER PER COA STD DWG 2415
36. INSTALL DRIVEPAD PER COA STD DWG 2425
37. INSTALL 12'-0" WIDE ACCESS GATE
38. INSTALL 10'-0" WIDE ACCESS GATE

SURVEY INFORMATION / FIELD NOTES

BENCH MARKS: APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13" ELEVATION = 4944.03 FT. DATUM= 1929 NGVD

AS BUILT INFORMATION: CONTRACTOR AMU DATE 8/10; WORK STAKED BY UMU DATE 8/10; INSPECTOR'S ACCEPTANCE BY UMU DATE 8/10; FIELD VERIFICATION BY; DRAWINGS CORRECTED BY DATE 8/10

MICRO-FILM INFORMATION: RECORDED BY, DATE, NO.

ENGINEER'S SEAL: 16205, 8-4-10, LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	1/11/08	REVISED GRADING	TJA

DESIGN: DESIGNED BY: TJA, DATE: JUN 2007; DRAWN BY: JLL, DATE: JUN 2007; CHECKED BY: MJ, DATE: -

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

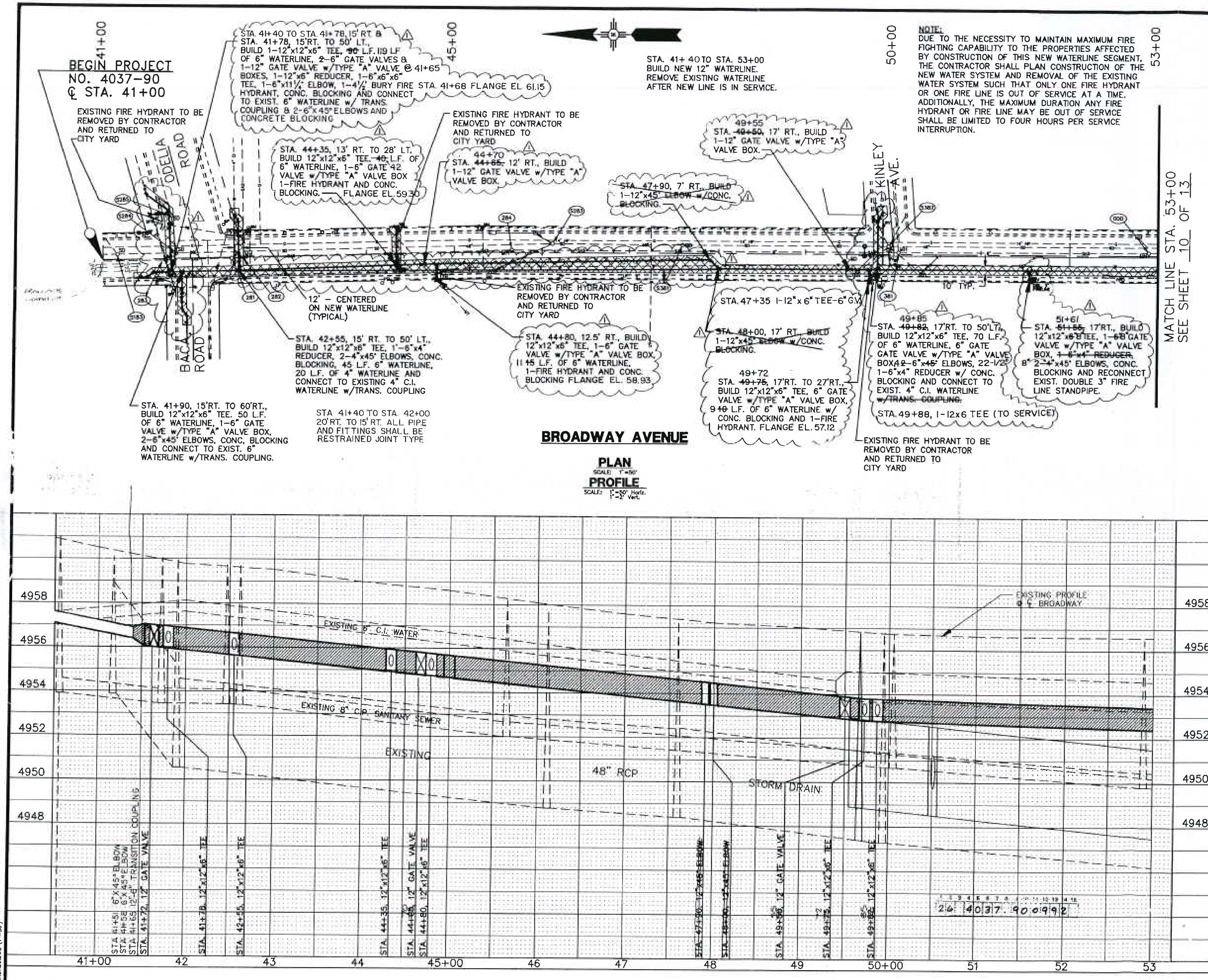
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
OVERALL GRADING & DRAINAGE PLAN

Design Review Committee | City Engineer Approval

AIR QUALITY POND

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 5 Of 12


BEGIN PROJECT
NO. 4037-90
℄ STA. 41+00
EXISTING FIRE HYDRANT TO BE REMOVED BY CONTRACTOR AND RETURNED TO CITY YARD
STA. 41+40 TO STA. 41+78, 15' RT. & STA. 41+78, 15' RT. TO 50' LT., BUILD 1-12"x12"x6" TEE, 119 L.F. OF 6" WATERLINE, 2-6" GATE VALVES & 1-12" GATE VALVE w/TYPE "A" VALVE @ 41+65 BOXES, 1-12"x6" REDUCER, 1-6"x6"x6" TEE, 1-6"x11¼" ELBOW, 1-4½' BURY FIRE STA. 41+68 FLANGE EL 61.15 HYDRANT, CONC. BLOCKING AND CONNECT TO EXIST. 6" WATERLINE w/ TRANS. COUPLING & 2-6"x45° ELBOWS AND CONCRETE BLOCKING
STA. 41+40 TO STA. 53+00 BUILD NEW 12" WATERLINE. REMOVE EXISTING WATERLINE AFTER NEW LINE IS IN SERVICE.
NOTE: DUE TO THE NECESSITY TO MAINTAIN MAXIMUM FIRE FIGHTING CAPABILITY TO THE PROPERTIES AFFECTED BY CONSTRUCTION OF THIS NEW WATERLINE SEGMENT, THE CONTRACTOR SHALL PLAN CONSTRUCTION OF THE NEW WATER SYSTEM AND REMOVAL OF THE EXISTING WATER SYSTEM SUCH THAT ONLY ONE FIRE HYDRANT OR ONE FIRE LINE IS OUT OF SERVICE AT A TIME. ADDITIONALLY, THE MAXIMUM DURATION ANY FIRE HYDRANT OR FIRE LINE MAY BE OUT OF SERVICE SHALL BE LIMITED TO FOUR HOURS PER SERVICE INTERRUPTION.
41+00
45+00
50+00
53+00
ODELIA ROAD
BACA ROAD
KINLEY AVE.
STA. 44+35, 13' RT. TO 28' LT., BUILD 12"x12"x6" TEE, 40 L.F. OF 6" WATERLINE, 1-6" GATE 42 VALVE w/TYPE "A" VALVE BOX 1-FIRE HYDRANT AND CONC. BLOCKING. FLANGE EL.59.30
EXISTING FIRE HYDRANT TO BE REMOVED BY CONTRACTOR AND RETURNED TO CITY YARD
44+70 STA. 44+65, 12' RT., BUILD 1-12" GATE VALVE w/TYPE "A" VALVE BOX.
STA. 47+90, 7' RT., BUILD 1-12"x45° ELBOW w/CONC. BLOCKING.
49+55 STA. 48+50, 17' RT., BUILD 1-12" GATE VALVE w/TYPE "A" VALVE BOX.
MATCH LINE STA. 53+00 SEE SHEET 10 OF 13
12' - CENTERED ON NEW WATERLINE (TYPICAL)
EXISTING FIRE HYDRANT TO BE REMOVED BY CONTRACTOR AND RETURNED TO CITY YARD
STA. 47+35 1-12"x6" TEE-6" GV
10' TYP.
STA. 42+55, 15' RT. TO 50' LT., BUILD 12"x12"x6" TEE, 1'-6"x4" REDUCER, 2-4"x45° ELBOWS, CONC. BLOCKING, 45 L.F. 6" WATERLINE, 20 L.F. OF 4" WATERLINE AND CONNECT TO EXISTING 4" C.I. WATERLINE w/TRANS. COUPLING
STA. 44+80, 12.5' RT., BUILD 12"x12"x6" TEE, 1-6" GATE VALVE w/TYPE "A" VALVE BOX, 11 15 L.F. OF 6" WATERLINE, 1-FIRE HYDRANT AND CONC. BLOCKING FLANGE EL. 58.93
STA. 48+00, 17' RT., BUILD 1-12"x45° ELBOW w/CONC. BLOCKING.
49+72 STA. 49+75, 17'RT. TO 27'RT., BUILD 12"x12"x6" TEE, 6" GATE VALVE w/TYPE "A" VALVE BOX, 9 10 L.F. OF 6" WATERLINE w/ CONC. BLOCKING AND 1-FIRE HYDRANT. FLANGE EL. 57.12
49+85 STA. 49+82, 17'RT. TO 50'LT., BUILD 12"x12"x6" TEE, 70 L.F. OF 6" WATERLINE, 6" GATE GATE VALVE w/TYPE "A" VALVE BOX, 2-6"x45° ELBOWS, 22-1/2° 1-6"x4" REDUCER w/ CONC. BLOCKING AND CONNECT TO EXIST. 4" C.I. WATERLINE w/TRANS. COUPLING.
STA. 49+88, 1-12x6 TEE (TO SERVICE)
51+61 STA. 51+55, 17'RT., BUILD 12"x12"x8" TEE, 1-8" GATE VALVE w/TYPE "A" VALVE BOX, 1-6"x4" REDUCER, 8" 2-4"x45° ELBOWS, CONC. BLOCKING AND RECONNECT EXIST. DOUBLE 3" FIRE LINE STANDPIPE.
STA. 41+90, 15'RT. TO 60'RT., BUILD 12"x12"x6" TEE. 50 L.F. OF 6" WATERLINE, 1-6" GATE VALVE w/TYPE "A" VALVE BOX, 2-6"x45° ELBOWS, CONC. BLOCKING AND CONNECT TO EXIST. 6" WATERLINE w/TRANS. COUPLING.
STA 41+40 TO STA. 42+00 20'RT. TO 15' RT. ALL PIPE AND FITTINGS SHALL BE RESTRAINED JOINT TYPE
EXISTING FIRE HYDRANT TO BE REMOVED BY CONTRACTOR AND RETURNED TO CITY YARD
BROADWAY AVENUE
PLAN
SCALE: 1"=50'
PROFILE
SCALE: 1"=50' Horiz. 1"=5' Vert.
EXISTING PROFILE @ ℄ BROADWAY
EXISTING 6" C.I. WATER
EXISTING 8" C.P. SANITARY SEWER
EXISTING 48" RCP STORM DRAIN
4958
4956
4954
4952
4950
4948
STA 41+51 6"x45° ELBOW
STA 41+58 6"x45° ELBOW
STA 41+65 12"-6" TRANSITION COUPLING
STA. 41+72, 12" GATE VALVE
STA. 41+78, 12"x12"x6" TEE
STA. 42+55, 12"x12"x6" TEE
STA. 44+35, 12"x12"x6" TEE
STA. 44+65, 12" GATE VALVE
STA. 44+80, 12"x12"x6" TEE
STA. 47+90, 12"x45° ELBOW
STA. 48+00, 12"x45° ELBOW
STA. 49+55, 12" GATE VALVE
STA. 49+75, 12"x12"x6" TEE
STA. 49+82, 12"x12"x6" TEE
41+00
42
43
44
45+00
46
47
48
49
50+00
51
52
53
26 4037 900992

LEGEND

	LIMITS OF PHASE I PAVEMENT REMOVAL AND REPLACEMENT
	NEW 12" WATERLINE (PROFILE)
	NEW WATERLINE AND WATER VALVE
	D.I.P. TEE
	D.I.P. 45° ELBOW
	D.I.P. 90° ELBOW
	EXISTING C & G
SAS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
G	EXISTING GAS LINE
SD	EXISTING STORM DRAIN
UT	EXISTING UNDERGROUND TELEPHONE LINE
UE	EXISTING UNDERGROUND ELECTRICAL LINE
CATV	EXISTING UNDERGROUND CABLE TV LINE
TC	EXISTING TRAFFIC SIGNAL CONDUIT
TR	EXISTING TELEPHONE BOX
SD	EXISTING STORM DRAIN MANHOLE
MH	EXISTING SANITARY SEWER MANHOLE
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
GV	EXISTING GAS VALVE
GM	EXISTING GAS METER
FH	EXISTING FIRE HYDRANT
PP	POWER POLE
SP	PEDESTAL SIGNAL
PB	PULL BOX
	LIGHT POLE
	EXISTING STORM INLET
	EXISTING TREE/SHRUB

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

BENCH MARKS
CITY OF ALBUQUERQUE BENCHMARK NO. 13J14 - A CHISEL MARK "□" IN THE N.E QUADRANT OF THE INTERSECTION OF ODELIA ROAD N.E. AND BROADWAY AVENUE N.E.

AS BUILT INFORMATION
MICRO-FILM INFORMATION

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
	6-19-92	AS BUILTS	GFW
		REVISIONS	

		DATE
DESIGNED BY	L.D.R. & S.A.M.	MAY 1991
DRAWN BY	C.A.D.D./R.K.A.	MAY 1991
CHECKED BY	M.W.M.	

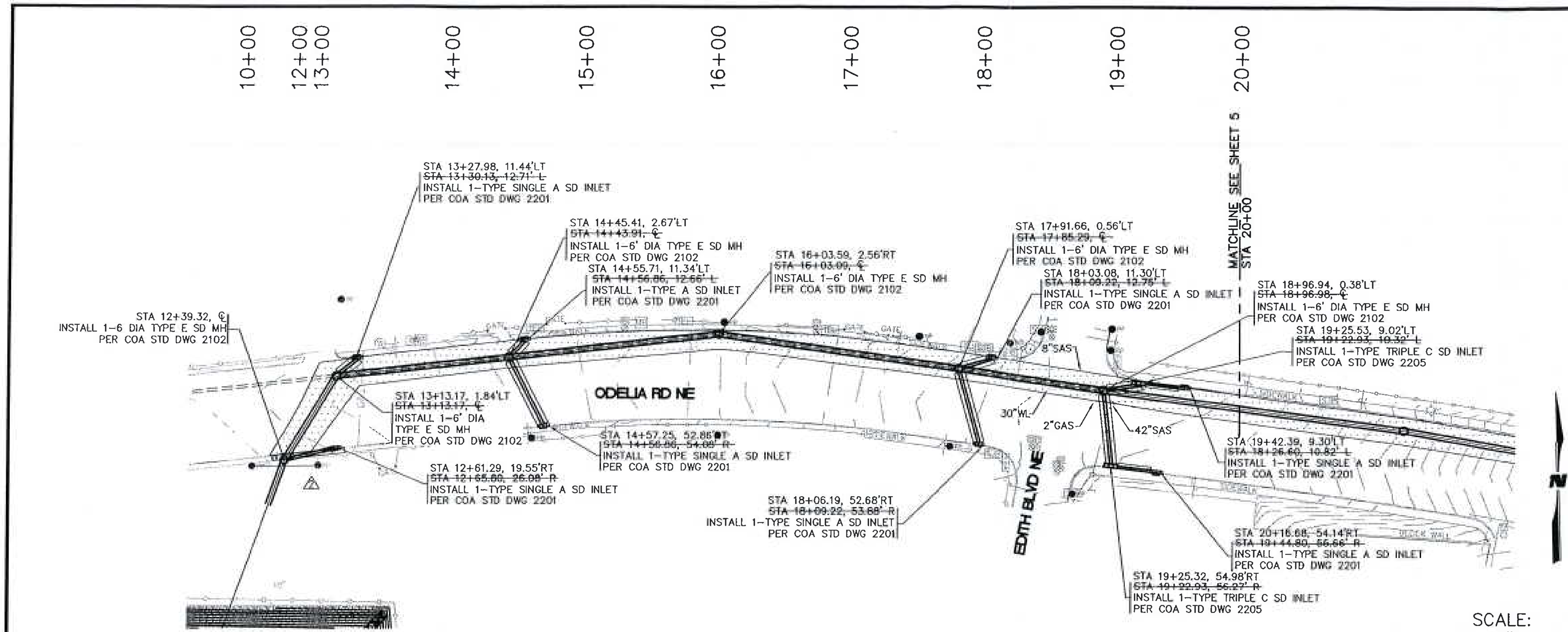
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP / HYDROLOGY DIVISION

TITLE: **BROADWAY STORM DRAIN**
WATER
STA. 41+00 TO STA. 53+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	6-18-91	WATER	R.W. Kane	6-12-91
TRANSPORTATION	[signature]	6-10-91	WASTE WATER	R.W. Kane	6-12-91
HYDROLOGY	Steve Bohay	5/30/91			

PROJECT NO.	MAP NO.	SHEET	OF
4037 - 90	J-14	9	18

SCANNED BY BT LASON

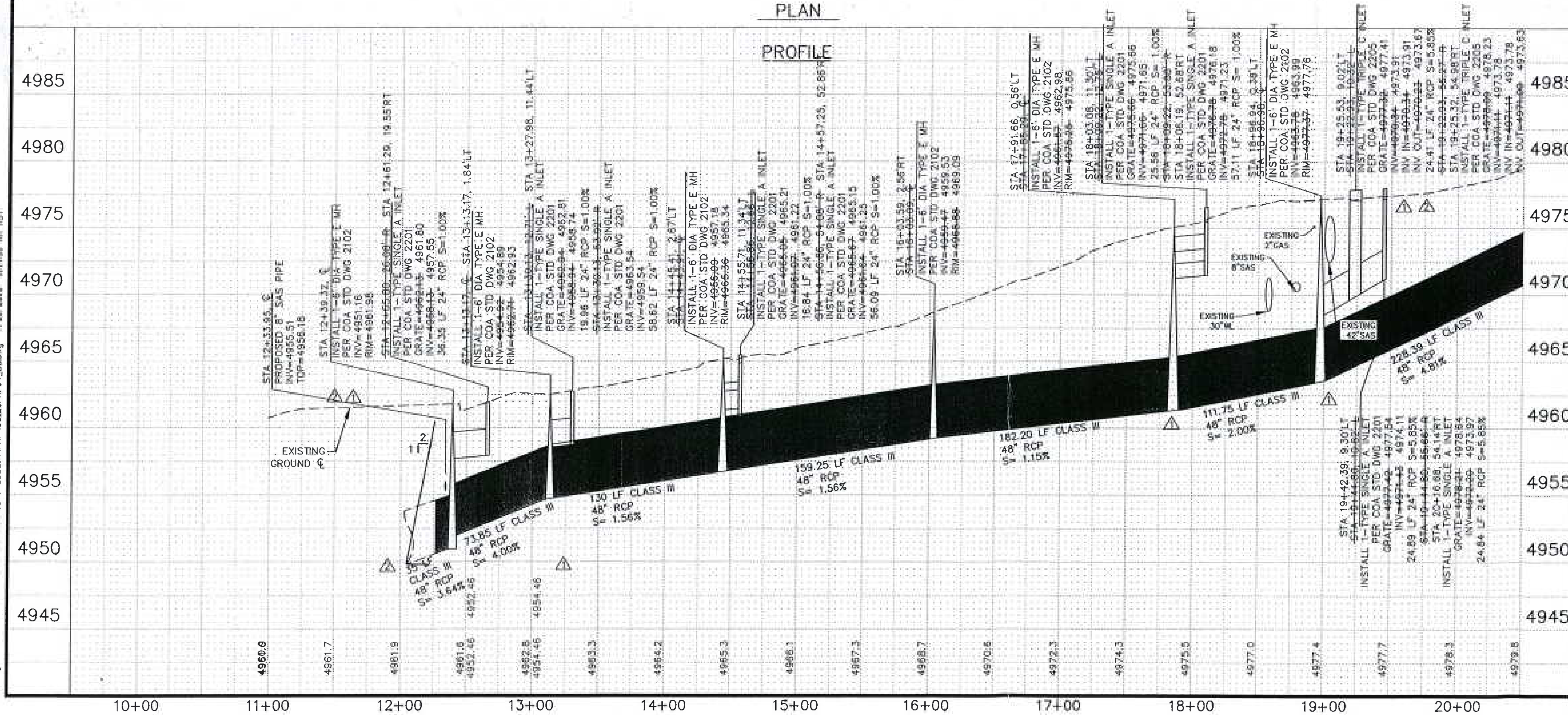


SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

SD ODELIA

PLAN

PROFILE



LEGEND

- PAVED ROAD
- UNPAVED ROAD
- TRAIL
- FENCE
- BUILDING
- LIGHT POLE
- PP UTILITY POLES
- GUY WIRE
- TREE
- TREE
- TREE
- TREE & BRUSH LINE
- MANHOLE
- FIRE HYDRANT
- VAULT
- BLOW-OFF VALVE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SCB SPRINKLER CONTROL BOX
- EB ELECTRICAL, PULL BOX
- ELECTRICAL, JUNCTION BOX
- UTILITY, SANITARY MANHOLE
- UTILITY, STORM DRAINAGE MANHOLE
- UTILITY, UNKNOWN MANHOLE
- TV TV PEDESTAL
- TEL TELEPHONE PEDESTAL
- PROPERTY CORNER, EXISTING
- TRAFFIC SIGNAL
- —W— WATER LINE, UNDERGROUND
- —GAS— GAS LINE, UNDERGROUND
- —TV— TELEVISION LINE, UNDERGROUND
- —E— ELECTRIC LINE, UNDERGROUND
- AREA OF DEMOLITION
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED RETAINING WALL
- PROPOSED RIDGE LINE

RECORD DRAWING
DATE 8-08

AS BUILT INFORMATION

SURVEY INFORMATION — FIELD NOTES — NO. BY DATE

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13" ELEVATION = 4944.03 FT. DATUM 1929 NGVD

MICRO-FILM INFORMATION

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
2	2/20/08	REVISED STORM DRAIN ALIGNMENT	TJA
1	1/18/08	REVISED PROFILE FOR UTILITY CONFLICTS	TJA

REVISIONS

DESIGN

DESIGNED BY: TJA	DATE:	JUN 2007
DRAWN BY: JLL	DATE:	JUN 2007
CHECKED BY: MJI	DATE:	JUN 2007

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

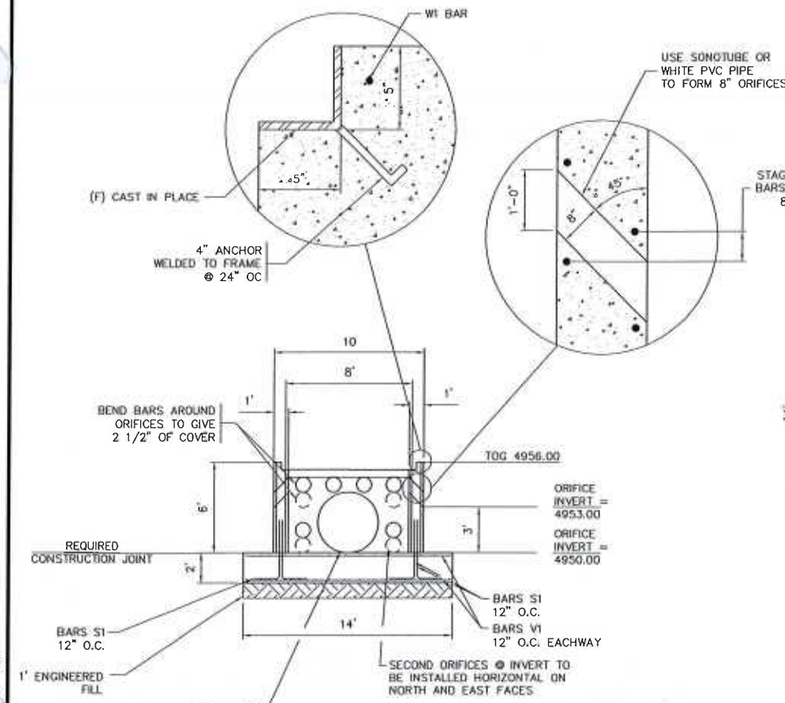
CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
STORM DRAIN PLAN & PROFILE
STA 10+00 TO 20+00

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
		Last Design Update	

City Project No.	Zone Map No.	Sheet	Of
7963.12	J-14-7	4	6

T:\Projects\06600123\CADD\SHEETS\SHEETS ODELIA\PNP\66123PNP04_OD.dwg 7/28/2008 10:14:30 AM MDT



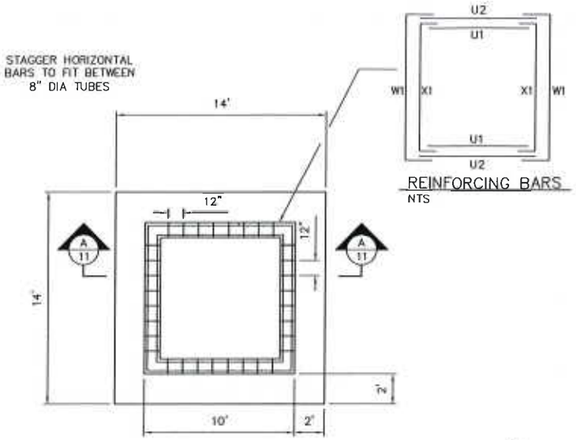
WEST ELEVATION

CROSS-SECTION A-A RISER DETAIL

1" = 5'

NOTE

1. FOR FIRST & SECOND ROWS BUILD ORIFICES ON NORTH, EAST, AND SOUTH FACE ONLY.

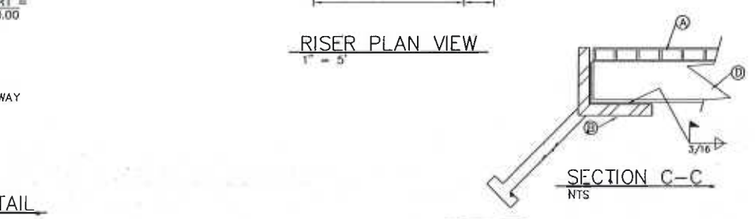


REINFORCING BARS

NTS

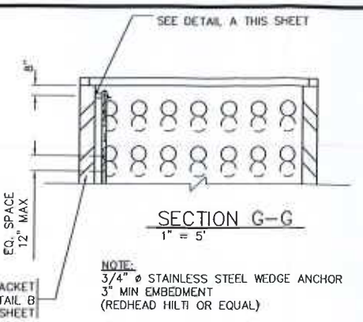
RISER PLAN VIEW

1" = 5'



SECTION C-C

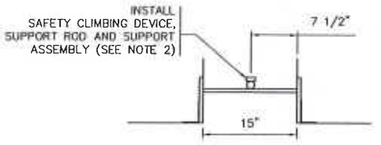
NTS



SECTION G-G

1" = 5'

NOTE:
3/4" ø STAINLESS STEEL WEDGE ANCHOR
3" MIN EMBEDMENT
(REDHEAD HILTI OR EQUAL)

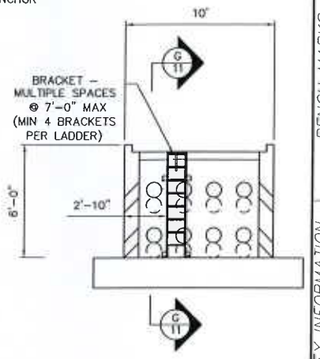


SAFETY LADDER NOTES:

1. SAFETY LADDER SHALL BE GALVANIZED A-36 STEEL AND SHALL MEET ALL REQUIREMENTS OF OSHA REGARDLESS OF DETAILS SHOWN
2. SAFETY CLIMBING DEVICE AND ASSEMBLY SHALL BE "SAF-T-CLIMB" FALL PREVENTION SYSTEM BY
   NORTH CONSUMER PRODUCTS
   2664B SATURN STREET
   BREA, CALIFORNIA 92621
   (714) 524-1655
   ATTACHMENT DETAILS SHALL MEET OSHA REQUIREMENTS REGARDLESS OF DETAILS SHOWN

DETAIL "A"
SAFETY LADDER CLIMBING DEVICE

1" = 1'

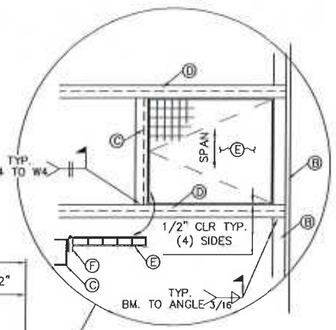


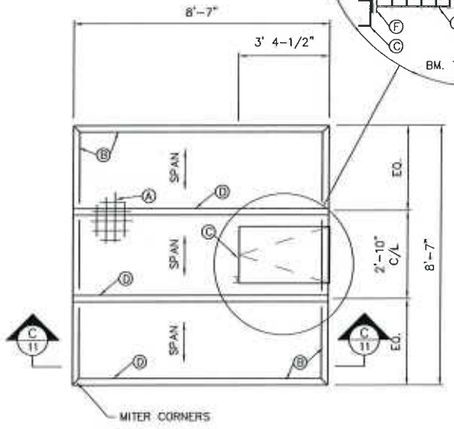
RISER LADDER ELEVATION

1" = 5'

REBAR DETAILS

1" = 5"



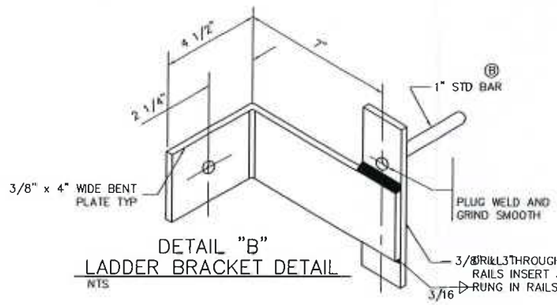


RISER GRATE-PLAN

NTS

KEYED NOTES:

- (A) GRATING - STEEL, TYPE W-38-4 W/ 1 1/2" x 1/16" BEARING BARS, SPAN AS SHOWN
- (B) L6 x 3 1/2 x 5/16 LLV EDGE BEARING ANGLE, CLIP LONG LEG TO 5 1/2" LENGTH
- (C) HATCH SUPPORT CHANNEL - C4 x 5.4
- (D) GRATING SUPPORT BEAM - W4 x 13
- (E) GRATING HATCH - STEEL, TYPE W-38-4 W/ 1 1/2" x 3/16" BEARING BARS , SPANA S SHOWN, W/ BANDING AT ENDS
- (F) HEAVY DUTY WELDABLE BARREL HINGE



DETAIL "B"
LADDER BRACKET DETAIL

NTS

SURVEY INFORMATION

FIELD NOTES

NO	BY	DATE

BENCH MARKS

- APPROX. 225' SOUTH OF STOWER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"

ELEVATION = 4944.03 FT.

AS BUILT INFORMATION

CONTRACTOR — DATE
STAKED BY — DATE
INSPECTOR'S — DATE
FIELD CHANGES BY — DATE
SURVEYED BY — DATE
CONNECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO

ENGINEER'S SEAL

TYLER J. ASHTON
NEW MEXICO
16205
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE: JUN 2007
			DRAWN BY: JLL — DATE: JUN 2007
			CHECKED BY: MJB — DATE: JUN 2007

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
POND RISER DETAILS

Design Review Committee	City Engineer Approval	Last Design Update

City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 12 Of 14

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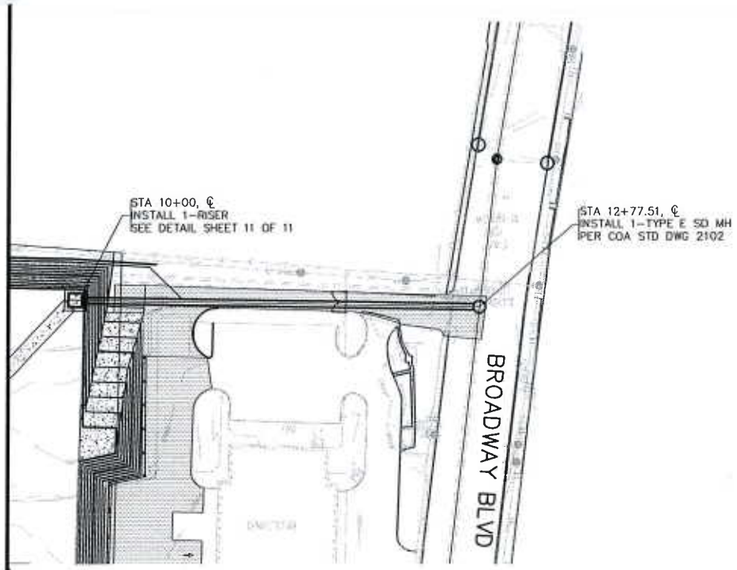
10+00 11+00 12+00

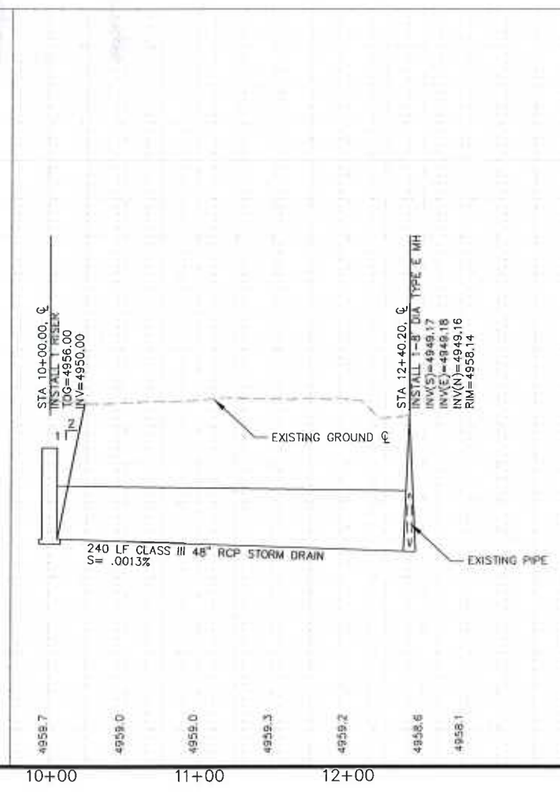


OUTLET SD

PLAN

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

PROFILE



LEGEND

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STARTED BY — DATE
FINAL CUTS ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

SURVEY INFORMATION — BENCH MARKS

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

TYLER J. ASHTON
NEW MEXICO
16205
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: TJA — DATE: JUN 2007
DRAWN BY: JJL — DATE: JUN 2007
CHECKED BY: MJI — DATE - JUN 2007

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
STORM DRAIN OUTLET PLAN & PROFILE
STA 10+00 TO 12+40.20

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 8 Of 14

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

CONSTRUCTION PLANS
FOR
BROADWAY AND ODELIA
AQ POND

INDEX

VICINITY MAP
ZONE ATLAS MAP NO. J-14-Z

NOTES

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED THROUGH UPDATE 7 INCLUDING AMENDMENT 1.

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION; CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE NO 7.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

THE CONTRACTOR SHALL COORDINATE THE EXECUTION OF THE WATER VALVE SHUT-OFF PLAN WITH THE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER UTILITIES.

ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED--OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

ELECTRONIC MARKER DISKS (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE 7.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTUED OF HOT PLASTIC OR COLD PLASTIC IN ACCRODANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.

CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.

ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR(24) HOUR CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED:

☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED

☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.

☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RET SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN CONSTRUCTED.

☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SH CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTT

☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRI FINAL ACCEPTANCE. RCP PIPE JOINTS SHALL NOT BE GROUT PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERM JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF CONSTR

RECORD DRAWING
DATE 8/4/10

REV	SHEETS	CITY ENGINEER	DATE	USER

ENGINEERS STAMP & SIGNATURE

APPROVALS	ENGI
DRC Chairman	
Transportation	
Water/Wastewater	
Hydrology	
Parks	
Constr. Mngmt.	
Constr. Coord.	

City Project No. 7963.11

Sheet 1 of 12

WILSON & COMPANY
4900 LANG AVE. N.E.
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA FILE NO. 0660012300

COMPLETE
A.Q. Pond
SET

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS THAT NEED TO BE REMOVED, RELOCATED, OR REINSTALLED. CALL 857-8680. REFER TO SECTION 18.4.4 OF THE SPECIFICATIONS.

2. THE CONTRACTOR WILL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR R.O.W. TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES.

3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE CONSTRUCTION PERIOD.

4. A DISPOSAL SITE, COMPLYING WITH ALL CITY ORDINANCES, SHALL BE OBTAINED BY THE CONTRACTOR FOR THE DISPOSAL OF ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVEMENT (EXCEPT MILLED BITUMINOUS CONCRETE PAVEMENT) AND OTHER WASTE MATERIALS. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE OF THE LOCATION OF THE DISPOSAL SITE PRIOR TO THE REMOVAL AND ACTUAL DISPOSAL OF THE MATERIAL. ALL COSTS IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.

5. CONTRACTOR TO CAREFULLY FIELD REVIEW SITE TO ASSESS EXTENT OF TRASH & DEMOLITION REMOVAL. TRASH IS DEFINED AS DEMOLITION TREES, SHRUBS, VEGETATION, ASPHALT, CONCRETE, ABANDONED WET & DRY UTILITIES, MISCELLANEOUS LANDSCAPE, AND CONCRETE CURB & GUTTER TRASH REMOVAL SHALL BE INCLUDED IN BID ITEM "CLEARING & GRUBBING".

6. ALL VALLEY GUTTERS ARE 6' WIDE UNLESS OTHERWISE NOTED.

7. UNLESS OTHERWISE SHOWN, ALL DIMENSIONS ARE TO FACE OF CURB, INCLUDING RADII OF CURB RETURNS.

8. ALL FINISHED GRADES AND PROFILES SHOWN ARE FLOWLINE GRADES, UNLESS OTHERWISE NOTED.

9. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED PER STD DWG 2415 BY THE CONTRACTOR AT HIS EXPENSE.

10. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE TO NEAREST JOINT.

11. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. PRIOR TO LAYING NEW PAVEMENT, THE EXPOSED EXISTING ASPHALT EDGE SHALL BE CLEAN AND TACK-COATED.

12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS CONSTRUCTED WITH THIS PROJECT AT THE LOCATIONS SHOWN ON PLANS, IN ACCORDANCE WITH THE CITY STANDARD DETAILS.

13. ALL WHEELCHAIR RAMP APPROACH SLOPES SHOWN ON STD DWG 2441 SHALL BE INCREASED IN LENGTH TO MAINTAIN 12:1 MAX SLOPE WHEN GRADE IS RISING FROM RAMP. SEE TABLE BELOW.

RISING GRADE	RAMP LENGTH
0%	8.1'
0-1%	9.2'
1-2%	10.6'
2-3%	12.6'
3-4%	15.5'

14. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION THAT MIGHT RESULT FROM PROJECT CONSTRUCTION. IT SHALL BE HIS RESPONSIBILITY TO PROTECT AND PRESERVE UTILITY EQUIPMENT AFFECTED BY PROJECT CONSTRUCTION. SHOULD HE BREAK AN EXISTING UTILITY LINE DURING CONSTRUCTION ACTIVITIES HE SHALL BE RESPONSIBLE FOR UTILITY REPAIR COSTS.

15. ALL EXISTING UTILITIES SHOWN HEREIN WERE TAKEN FROM RECORD DRAWINGS, POTHOLES, FIELD SURVEYS, C.O.A. SYSTEMS UTILITIES MAPS AND INFORMATION PROVIDED BY THE UTILITY OWNERS AND ARE APPROXIMATE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THEIR HORIZONTAL AND VERTICAL LOCATIONS AND PROVIDE PROTECTION FOR ALL UTILITIES WITHIN THE CONSTRUCTION AREA.

16. CONTRACTOR SHALL FIELD VERIFY LOCATION AND TYPE OF EXISTING UTILITIES TO BE ADJUSTED OR EXTENDED.

17. MANHOLE RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT ELEVATIONS.

18. CONTRACTOR TO VERIFY ALL EXISTING FIRE HYDRANT FLANGES, PADS, VALVE BOXES, MANHOLE RIMS AND TOP OF PIPE ELEVATIONS IN THE FIELD. ELEVATIONS SHALL BE ADJUSTED TO COMPLY WITH THE REQUIREMENTS OF STANDARD CITY DETAILS.

19. ELEVATIONS FOR PROPOSED WATERLINE CONNECTIONS TO EXISTING WATERLINES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.

20. ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THIS CONTRACT, AND WILL BE PAID FOR AT CONTRACT UNIT PRICES.

21. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF WHEN FIRE HYDRANTS WILL BE TAKEN OUT OF SERVICE AND RETURNED TO SERVICE.

22. ALL WATER SERVICES LISTED AS "DOUBLE" REFER TO DOUBLE METER BOX. A SEPARATE SERVICE LINE TO EACH METER IS REQUIRED. REFERENCE C.O.A. STD. DRAWINGS 2361, 2362.

23. ALL EXISTING GAS VALVE BOXES, GAS MANHOLES, ELECTRICAL MANHOLES, AND TELEPHONE MANHOLES WILL BE ADJUSTED TO GRADE BY OTHERS.

24. WHERE PULL BOXES ABUT BACK OF CURB OR ARE LOCATED IN A CONCRETE PAVED AREA, PROVIDE 3/4" EXPANSION MATERIAL AROUND THE PULL BOX. ALL PULL BOXES TO BE FLUSH WITH SURFACE OF CONCRETE.

25. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS WELL AS LOCAL REGULATIONS.

26. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY ENTITIES AS NEEDED FOR RELOCATION AND INSTALLATION OF PRIVATE UTILITIES. ENGINEER HAS NOTIFIED THE PRIVATE UTILITIES OF THIS PROJECT.

27. TEMPORARY EROSION FENCING (OR PERMANENT WALLS OR FENCING) SHALL BE USED TO PROTECT EXISTING RESIDENTIAL PROPERTY, STREETS LANDSCAPING AND THE DRAINAGE SYSTEMS FROM THE DEPOSITION OF ERODED MATERIAL.

28. CONSTRUCTION AREA SHALL BE CONTROLLED TO PREVENT TRESPASS USE BY 4WD'S, ORV'S AND MOTORCYCLES TO MINIMIZE NOISE, DUST, DESTRUCTION OF VEGETATION, WIND AND WATER EROSION.

29. CONTRACTOR SHALL LOCATE EXISITING IRRIGATION LINE(S) AND CUT & CAP SERVICE 5'-0" OUTSIDE OF CONSTRUCTION LIMITS. COST IS INCIDENTAL TO BID ITEM "CLEARING AND GRUBBING".

30. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 14 CALENDAR DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT. AS-BUILTS SHALL BE CERTIFIED, SIGNED AND DATED BY THE CONTRACTOR FOR COMPLETENESS AND ACCURACY OF INFORMATION.

UTILITY CONTACTS

COMPANY	PHONE	MOBILE	CONTACT
CITY of ALBUQUERQUE	768-2729		NANCY MUSINSKI
PNM - ELECTRIC	241-3398		ART CHAVEZ
PNM - GAS	241-7771		JOE DUNLOP
QWEST	245-6374		ROSA KNIFFIN
COMCAST	761-6221		ROBERT MARTINEZ

RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION
CONTRACTOR NMU DATE 8/10
WORK STAKED BY NMU DATE 8/10
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY NMU DATE 8/10
DRAWINGS CORRECTED BY WEL DATE 8/10

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.

ENGINEER'S SEAL
LICENSED PROFESSIONAL ENGINEER 16205 12-14-07

REMARKS | NO. | DATE | BY
REVISIONS
DESIGN
DESIGNED BY: TJR DATE: JUN 2007
DRAWN BY: JLL DATE: JUN 2007
CHECKED BY: MJ DATE: JUN 2007

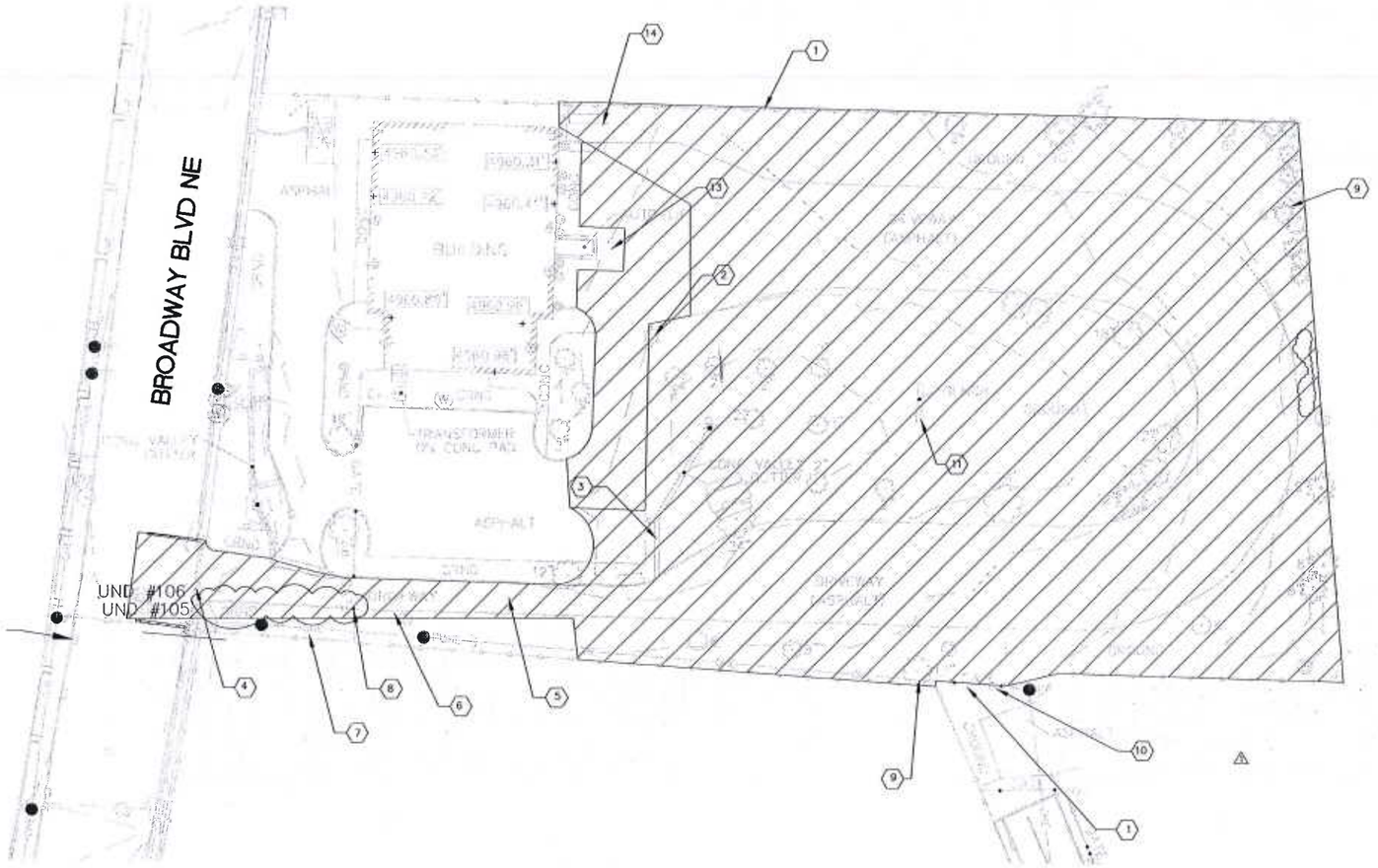
WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
GENERAL NOTES

Design Review Committee | City Engineer Approval

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 2 of 12



LEGEND

- AREA OF DEMOLITION
- APPROXIMATE LINEAR REMOVAL LIMITS

KEYED NOTES

1. REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE. RESET AFTER STORM DRAIN CONSTRUCTION AND RELATED SITE WORK INSTALLATION.
2. CONTRACTOR SHALL PROTECT EXISTING PARKING LOT LIGHTING
3. REMOVE CONCRETE VALLEY GUTTER
4. REMOVE & DISPOSE EXISTING CONCRETE VALLEY GUTTER TO NEAREST POINT
5. SAWCUT, REMOVE AND DISPOSE EXISTING ASPHALT
6. REMOVE AND DISPOSE EXISTING CONCRETE CURB & GUTTER
7. RAKE EXISTING GRAVEL BACK AWAY FROM STORM DRAIN TRENCH
8. REMOVE & SALVAGE EXISTING CHAIN LINK FENCE & GATE. RESET AFTER STORM DRAIN AND RELATED SITE WORK COMPLETION
9. REMOVE & DISPOSE EXISTING TREES (TYP) ALL TREES WITHIN THE CONSTRUCTION LIMITS.
10. REPAIR EXISTING CHAIN LINK FENCE.
11. REMOVE & SALVAGE EXISTING PARK BENCH. RELOCATE PER PROJECT MANAGER ON SITE.
12. REMOVE & DISPOSE EXISTING SOD & IRRIGATION SYSTEM. COORDINATE WATER SHUT-OFF AND CAPPING OF LINES.
13. CONTRACTOR SHALL PROTECT EXISTING PCC APRON
14. REMOVE, SALVAGE & RESET EXISTING CONCRETE TABLE AFTER STORM DRAIN AND RELATED SITE WORK IS COMPLETE
15. REMOVE AND REPLACE STORM DRAIN MANHOLE

N

RECORD DRAWING
DATE 8/4/10

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.

AS BUILT INFORMATION
CONTRACTOR — DATE 8/10
NOTES — DATE 8/10
INSPECTOR — DATE
FIELD CHECK — DATE
VERIFIED BY — DATE 8/10
CORRECTED BY — DATE 8/10
MICRO-FILM INFORMATION
RECORDED BY
NO. — DATE

NO	DATE	REVISIONS / REMARKS	BY
1	1/11/08	REVISED GRADING	TJA

DESIGNED BY: TJA — DATE: JUN 2007
DRAWN BY: JJL — DATE: JUN 2007
CHECKED BY: MLK — DATE: JUN 2007

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
DEMOLITION PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 3 Of 12

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C1 STANDING NORTH LOOKING SOUTH
RASTER IMAGE NOT TO SCALE

KEYED NOTES

1. REMOVE, DISPOSE, AND REPLACE STANDARD CURB & GUTTER PER COA STD DWG 2415
2. REMOVE AND DISPOSE EXISTING CONCRETE PAD
3. REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE. RESET AFTER STORM DRAIN CONSTRUCTION AND RELATED SITE WORK INSTALLATION.
4. REMOVE AND REPLACE EXISTING SIDEWALK
5. CONTRACTOR SHALL PROTECT EXISTING PARKING LOT LIGHTING
6. REMOVE CONCRETE VALLEY GUTTER
7. REMOVE AND DISPOSE EXISTING DROP INLET
8. REMOVE & DISPOSE EXISTING CONCRETE VALLEY GUTTER TO NEAREST POINT
9. SAWCUT, REMOVE AND DISPOSE EXISTING ASPHALT
10. REMOVE AND DISPOSE EXISTING CONCRETE CURB & GUTTER
11. RAKE EXISTING GRAVEL BACK AWAY FROM STORM DRAIN TRENCH
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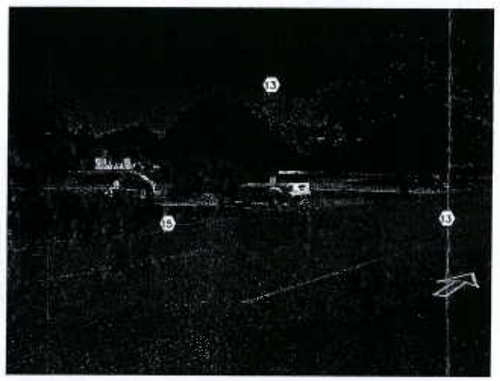
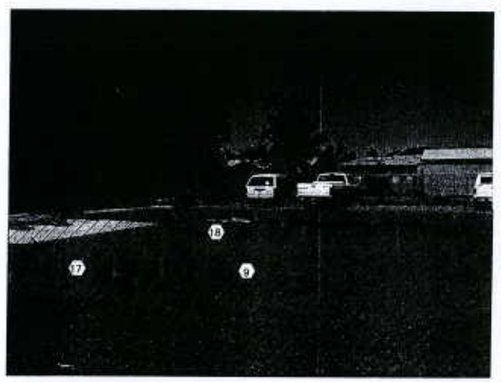
17. CONTRACTOR SHALL PROTECT EXISTING PCC APRON
18. REMOVE, SALVAGE & RESET EXISTING CONCRETE TABLE AFTER STORM DRAIN AND RELATED SITE WORK IS COMPLETE
19. REMOVE AND REPLACE EXISTING UNIDIRECTIONAL ADA RAMPS
20. REMOVE AND REPLACE STORM DRAIN MANHOLE
21. EXISTING 24" STORM DRAIN

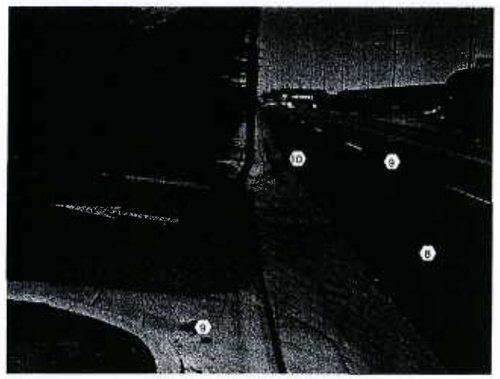
B1 STANDING WEST LOOKING EAST
RASTER IMAGE NOT TO SCALE



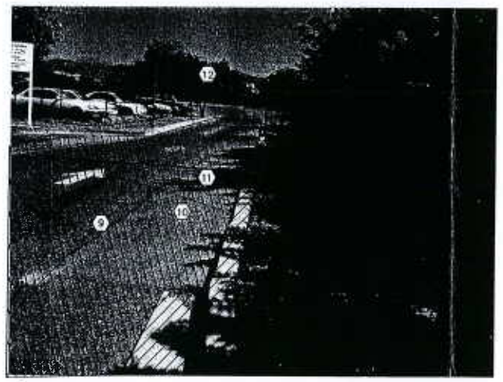
B2 STANDING WEST LOOKING EAST
RASTER IMAGE NOT TO SCALE



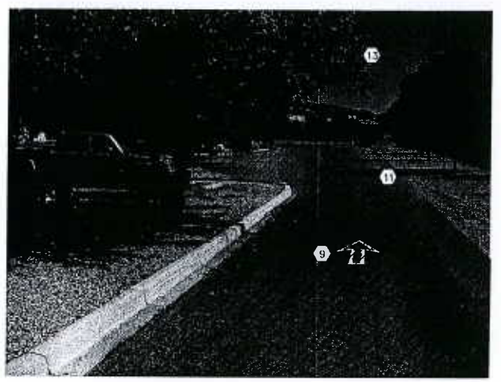
B3 STANDING SOUTH LOOKING NORTH
RASTER IMAGE NOT TO SCALE



A1 STANDING NORTH LOOKING SOUTH
RASTER IMAGE NOT TO SCALE



A2 STANDING WEST LOOKING EAST
RASTER IMAGE NOT TO SCALE



A3 STANDING WEST LOOKING EAST
RASTER IMAGE NOT TO SCALE

AS BUILT INFORMATION
CONTRACTOR — DATE
PLANS BY — DATE
FIELD INSPECTION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
16206
12-14-07

REMARKS
REVISIONS
DESIGN
NO. DATE BY
DESIGNED BY: TJA — DATE: JUN 2007
DRAWN BY: JLL — DATE: JUN 2007
CHECKED BY: MJF — DATE: JUN 2007

RECORD DRAWING
DATE 8/4/10

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
DEMOLITION PHOTOS

Design Review Committee | City Engineer Approval | Land Design Update | Date/Initials | Date/Initials

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 4 of 12

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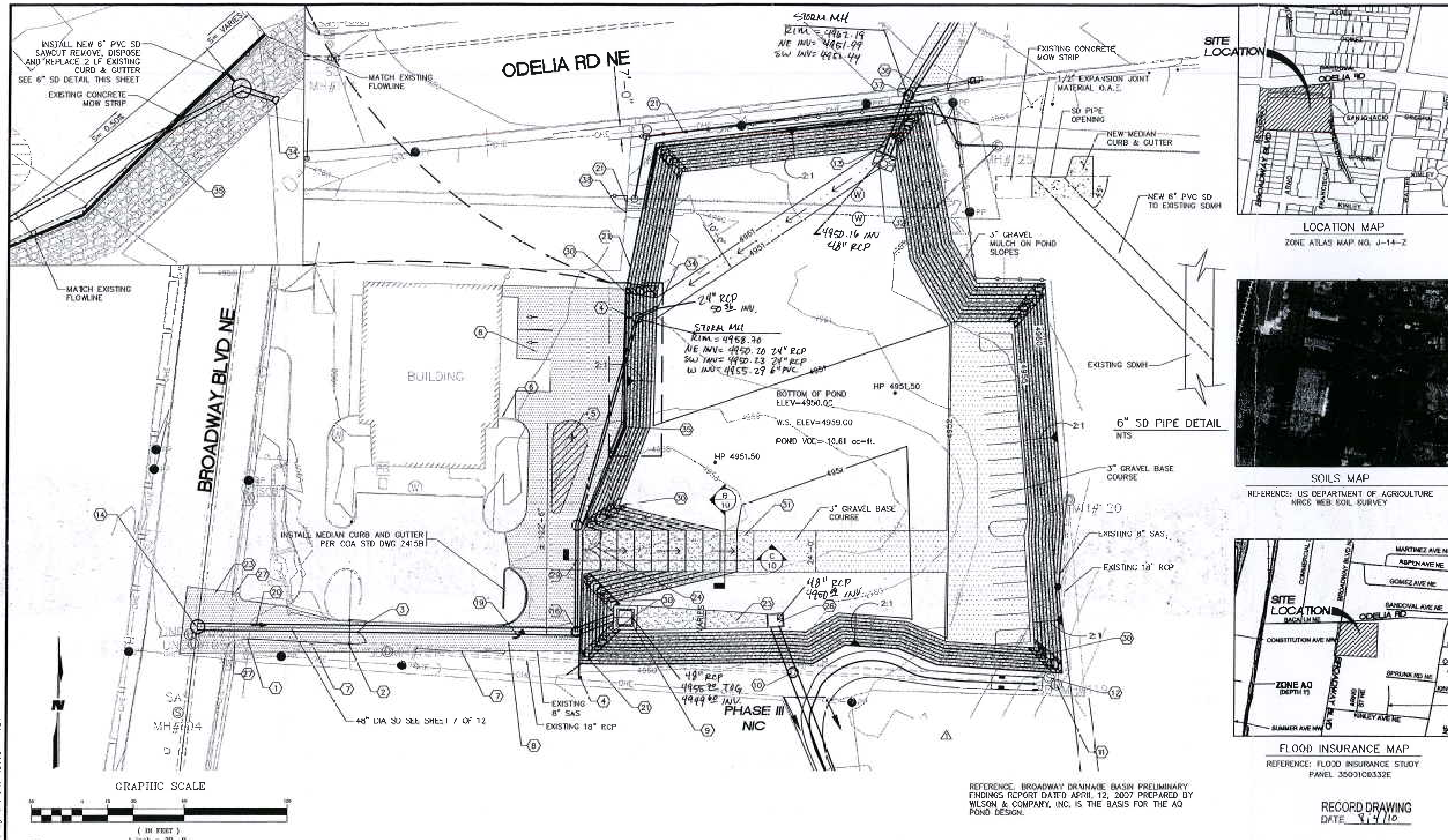


GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

REFERENCE: BROADWAY DRAINAGE BASIN PRELIMINARY FINDINGS REPORT DATED APRIL 12, 2007 PREPARED BY WILSON & COMPANY, INC. IS THE BASIS FOR THE AQ POND DESIGN.

RECORD DRAWING
DATE 8/4/10

KEY NOTES

1. APPROXIMATE Northing = 1491238.2030 Easting = 1523247.8990 INSTALL ½" BITUMINOUS EXPANSION JOINT. BEGIN NEW MEDIAN CURB & GUTTER
2. APPROXIMATE Northing = 1491235.2900 Easting = 1523306.9340 END MEDIAN CURB & GUTTER. TAPER END AT 1:1
3. RESET EXISTING CHAIN LINK GATE & FENCE
4. INSTALL CONCRETE MOW STRIP PER COA STD DWG 2426
5. CONTRACTOR SHALL PROTECT EXISTING PARKING LOT LIGHTING
6. CONTRACTOR SHALL PROTECT EXISTING CONCRETE CURB
7. RESTORE GRAVEL LANDSCAPE AFTER SITE WORK GRADING & PAVING IS COMPLETE
8. INSTALL 3" ASPHALT PAVEMENT PER DETAIL SHEET 10
9. INSTALL 1-10'X10'X6' POND RISER SEE DETAIL SHEET 11
10. REBUILD WITH 6' DIA SD MANHOLE
11. EXISTING SD MH ADJUST RIM TO GRADE ±4964.01
12. EXISTING SAS MH ADJUST RIM TO GRADE ± 4963.38
13. INSTALL ODELIA OUTFALL DETAIL SEE SHEET 12
14. INSTALL 1-TYPE E 8' DIA. SD MH PER COA DWG 2102
15. INSTALL 20 LF STANDARD CURB AND GUTTER PER COA STD DWG 2415B
16. INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102
17. INSTALL 20 LF 4' CONCRETE SIDEWALK PER COA STD DWG 2430
18. INSTALL 1-SINGLE A SD INLET PER COA STD DWG 2201
19. INSTALL 1 4'-0" H LEFT TURN ONLY ARROW
20. INSTALL 1 4'-0" H DIRECTIONAL ARROW
21. INSTALL 6'-0" H CHAINLINK FENCE PER DETAIL SHEET 10
22. INSTALL 24'-0" WIDE DOUBLE SWING GATE
23. SAW CUT, REMOVE, DISPOSE & REPLACE BROADWAY BLVD NE PAVEMENT TO FULL DEPTH
24. 24'-0" WIDE CHAINLINK GATE
25. INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421
26. INSTALL OUTFALL PAD PER DETAIL SHEET 12
27. INSTALL UNIDIRECTIONAL ADA RAMP PER COA STD DWG 2426
28. RELOCATED STORAGE CONTAINER
29. 18" RCP PER DETAIL SHEET 7A
30. RIP RAP RUNDOWN PER SHEET 10
31. CONCRETE RAMP PER DETAIL SHEET 10
32. RIP RAP OUTFALL PER DETAIL SHEET 10
33. INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102 & DETAIL SHEET
34. INSTALL 18" END SECTION
35. INSTALL MEDIAN CURB AND GUTTER PER COA STD DWG 2415
36. INSTALL DRIVEPAD PER COA STD DWG 2425
37. INSTALL 12'-0" WIDE ACCESS GATE
38. INSTALL 10'-0' WIDE ACCESS GATE

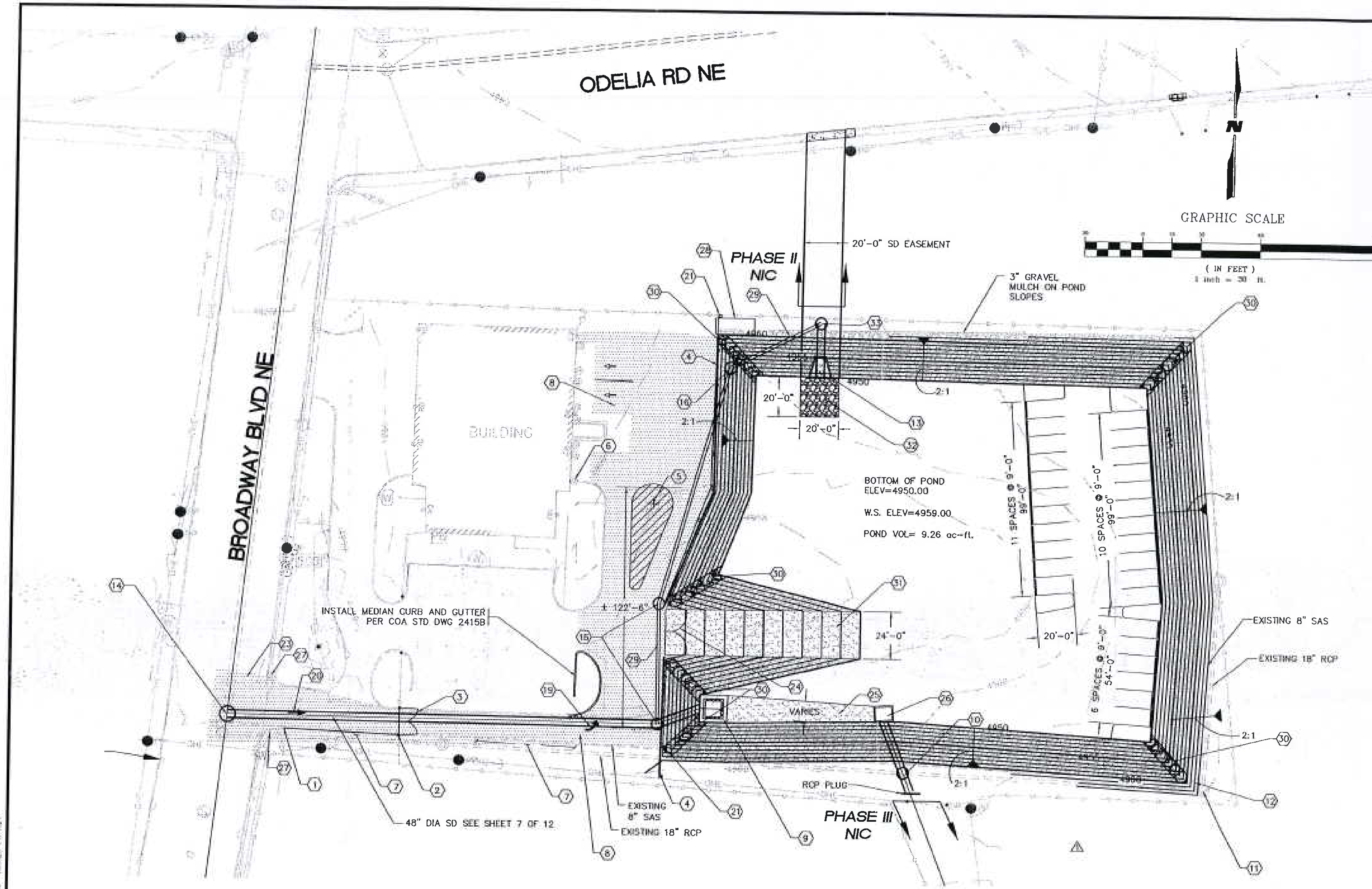
WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

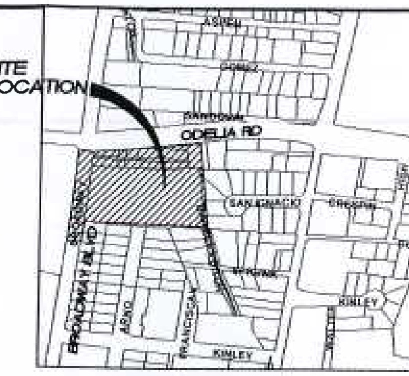
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
OVERALL GRADING & DRAINAGE PLAN

Design Review Committee | City Engineer Approval

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 5 OF 12



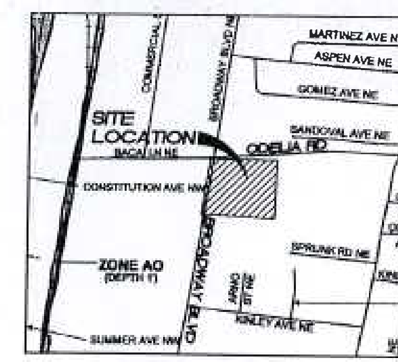


LOCATION MAP

ZONE ATLAS MAP NO. J-14-Z

SOILS MAP

REFERENCE: US DEPARTMENT OF AGRICULTURE
NRCS WEB SOIL SURVEY



FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY
PANEL 35001C0332E

REFERENCE: BROADWAY DRAINAGE BASIN PRELIMINARY FINDINGS REPORT DATED APRIL 12, 2007 PREPARED BY WILSON & COMPANY, INC. IS THE BASIS FOR THE AQ POND DESIGN.

RECORD DRAWING
DATE 8/4/10

KEY NOTES

1 APPROXIMATE Northing = 1491238.2030 Easting = 1523247.8990
INSTALL ½" BITUMINOUS EXPANSION JOINT. BEGIN NEW MEDIAN CURB & GUTTER

2 APPROXIMATE Northing = 1491235.2900 Easting = 1523306.9340
END MEDIAN CURB & GUTTER. TAPER END AT 1:1

3 RESET EXISTING CHAIN LINK GATE & FENCE

4 INSTALL CONCRETE MOW STRIP PER COA STD DWG 2426

5 CONTRACTOR SHALL PROTECT EXISTING PARKING LOT LIGHTING

6 CONTRACTOR SHALL PROTECT EXISTING CONCRETE CURB

7 RESTORE GRAVEL LANDSCAPE AFTER SITE WORK GRADING & PAVING IS COMPLETE

8 INSTALL 3" ASPHALT PAVEMENT PER DETAIL SHEET 10

9 INSTALL 1-10'X10'X6' POND RISER SEE DETAIL SHEET 11

10 REBUILD WITH 6' DIA SD MANHOLE

11 EXISTING SD MH ADJUST RIM TO GRADE ±4964.01

12 EXISTING SAS MH ADJUST RIM TO GRADE ± 4963.38

13 INSTALL ODELIA OUTFALL DETAIL SEE SHEET 12

14 INSTALL 1-TYPE E 8' DIA. SD MH PER COA DWG 2102

15 INSTALL 20 LF STANDARD CURB AND GUTTER PER COA STD DWG 2415B

16 INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102

17 INSTALL 20 LF 4' CONCRETE SIDEWALK PER COA STD DWG 2430

18 INSTALL 1-SINGLE A SD INLET PER COA STD DWG 2201

19 INSTALL 1 4'-0" H LEFT TURN ONLY ARROW

20 INSTALL 1 4'-0" H DIRECTIONAL ARROW

21 INSTALL 6'-0" H CHAINLINK FENCE PER DETAIL SHEET 10

22 INSTALL 1-24"-0" WIDE DOUBLE SWING GATE

23 SAW CUT, REMOVE, DISPOSE & REPLACE BROADWAY BLVD NE PAVEMENT TO FULL DEPTH

24 24'-0" WIDE CHAINLINK GATE

25 INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421

26 INSTALL OUTFALL PAD PER DETAIL SHEET 12

27 INSTALL UNIDIRECTIONAL ADA RAMP PER COA STD DWG 2426

28 RELOCATED STORAGE CONTAINER

29 18" RCP PER DETAIL SHEET 7A

30 RIP RAP RUNDOWN PER SHEET 10

31 CONCRETE RAMP PER DETAIL SHEET 10

32 RIP RAP OUTFALL PER DETAIL SHEET 10

33 INSTALL 1-TYPE E 6' DIA. SD MH PER COA DWG 2102 & DETAIL SHEET

SURVEY INFORMATION — FIELD NOTES — BENCH MARKS

APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"

ELEVATION = 4944.03 FT.

AS BUILT INFORMATION — MICRO-FILM INFORMATION

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
A	1/11/08	REVISED GRADING	TJA
NO.	DATE	REVISIONS	BY

DESIGN — DESIGNED BY: TJA DATE: JUN 2007; DRAWN BY: JJL DATE: JUN 2007; CHECKED BY: MJI DATE: JUN 2007

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
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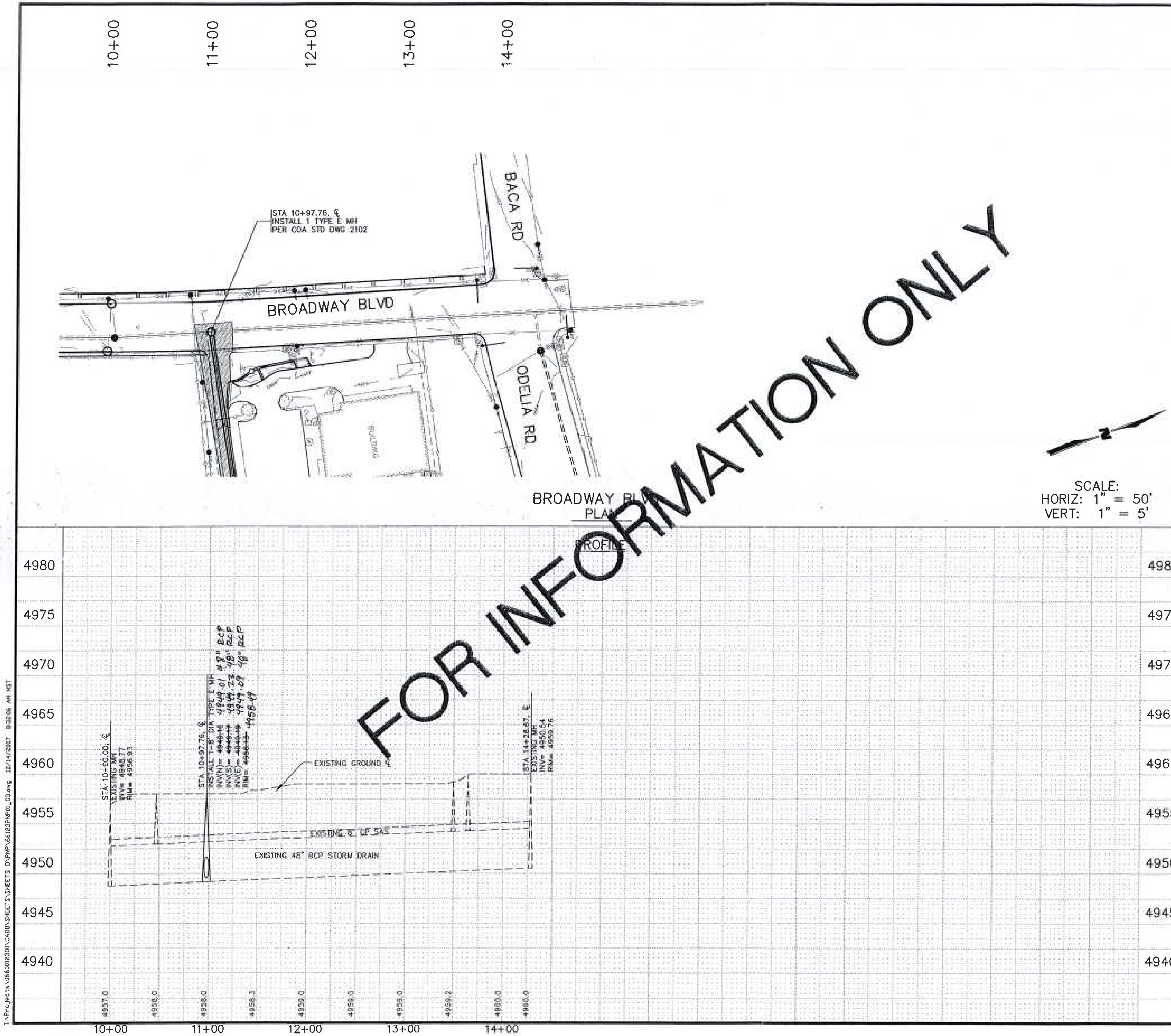
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
OVERALL GRADING & DRAINAGE PLAN

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 5 of 12



LEGEND

- PAVED ROAD
- UNPAVED ROAD
- TRAIL
- FENCE
- BUILDING
- LIGHT POLE
- UTILITY POLES
- GUY WIRE
- TREE
- TREE
- TREE
- TREE & BRUSH LINE
- MANHOLE
- FIRE HYDRANT
- VAULT
- BLOW-OFF VALVE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SPRINKLER CONTROL BOX
- ELECTRICAL, PULL BOX
- ELECTRICAL, JUNCTION BOX
- UTILITY, SANITARY MANHOLE
- UTILITY, STORM DRAINAGE MANHOLE
- UTILITY, UNKNOWN MANHOLE
- TV PEDESTAL
- TELEPHONE PEDESTAL
- PROPERTY CORNER, EXISTING
- TRAFFIC SIGNAL
- WATER LINE, UNDERGROUND
- GAS LINE, UNDERGROUND
- TELEVISION LINE, UNDERGROUND
- ELECTRIC LINE, UNDERGROUND
- AREA OF DEMOLITION
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED SEAL COAT
- PROPOSED RETAINING WALL
- PROPOSED RIDGE LINE

RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION
MICRO-FILM INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE
ENGINEER'S SEAL

REMARKS
REVISIONS
DESIGN
NO. | DATE | BY

DESIGNED BY: TJA — DATE: JUN 2007
DRAWN BY: JJL — DATE: JUN 2007
CHECKED BY: MJI — DATE: JUN 2007

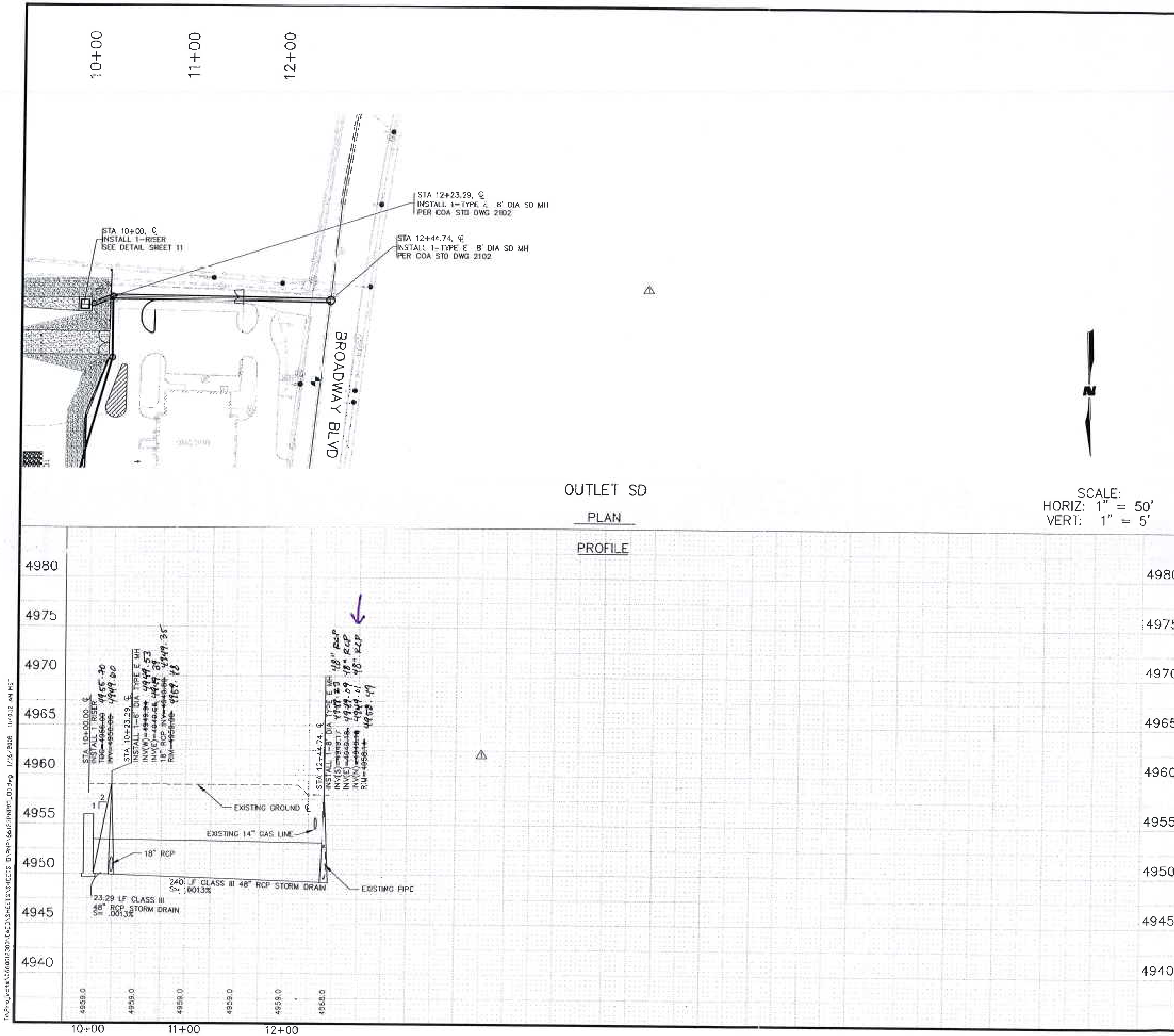
WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: **FLOOD CONTROL ON-CALL CONTRACT**
BROADWAY BLVD PLAN & PROFILE
STA 10+00 TO STA 14+28.67

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 6 Of 12



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RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL — 16205 — 1-16-08

NO	DATE	REMARKS	BY
1	1/11/08	REVISED GRADING	TJA
		REVISIONS	

DESIGN — DESIGNED BY: TJA DATE: JUN 2007; DRAWN BY: JLL DATE: JUN 2007; CHECKED BY: MJI DATE: JUN 2007

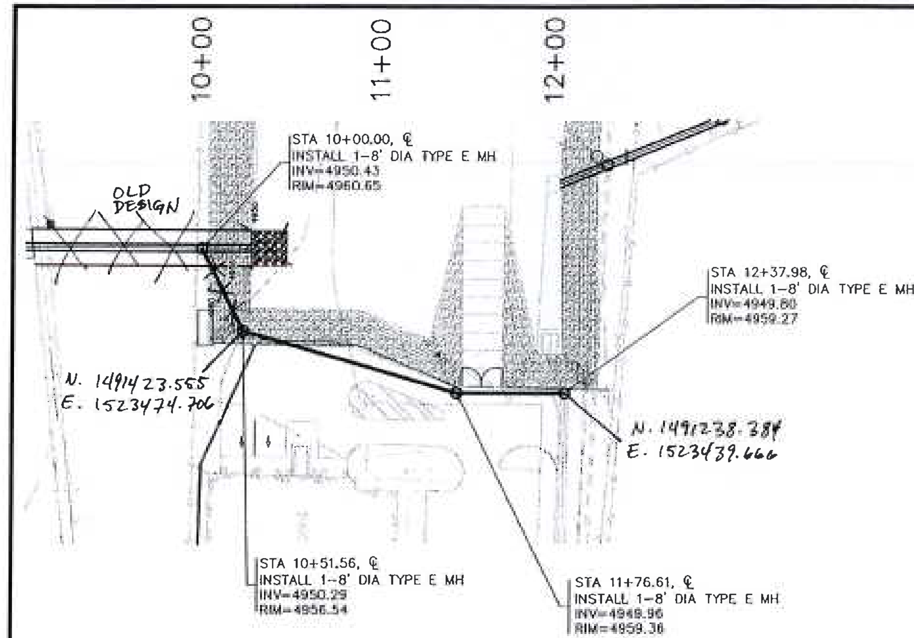
WILSON & COMPANY
2600 THE AMERICAN ROAD S.E. SUITE 100
RIO RANCHO, NEW MEXICO 87124
(505) 896-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
STORM DRAIN OUTLET PLAN & PROFILE
STA 10+00 TO 12+44.74

Design Review Committee | City Engineer Approval

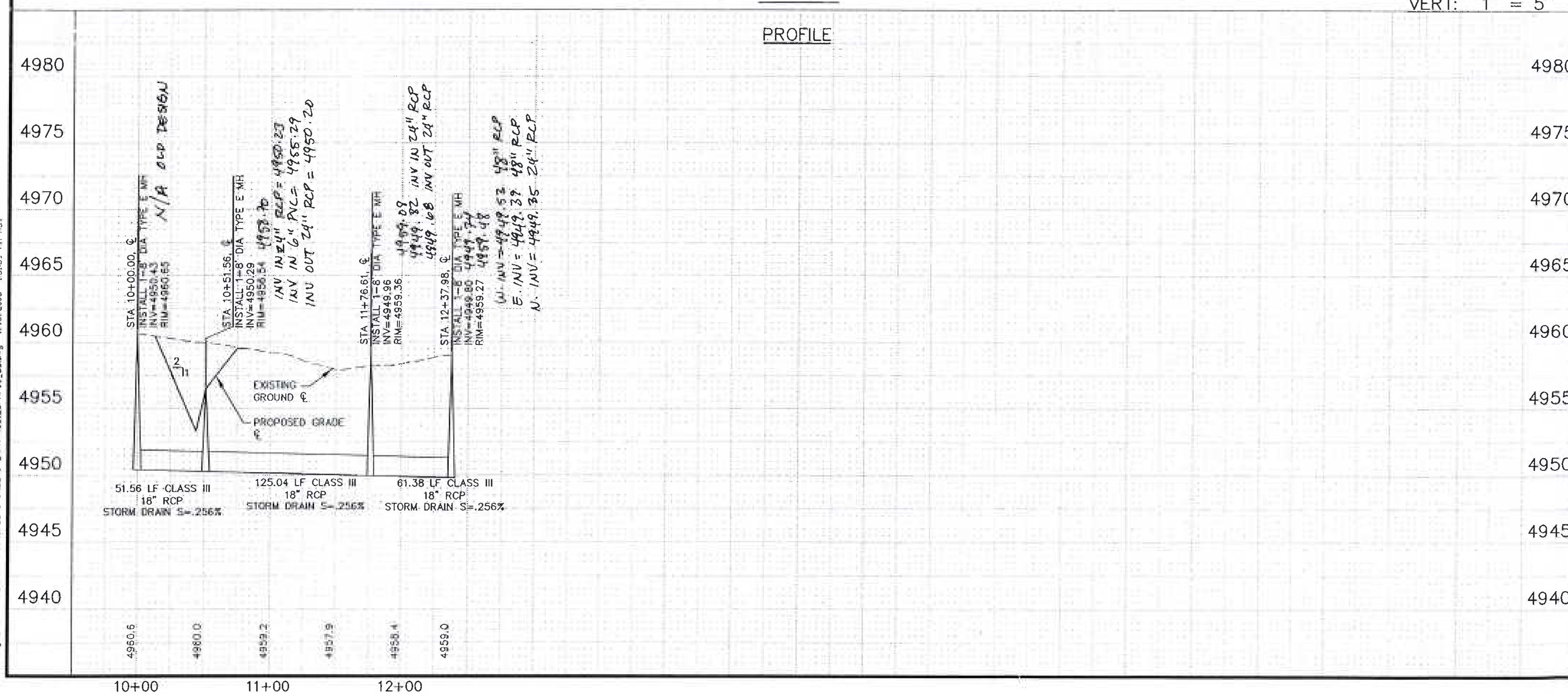
City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 7 of 12



18" LOW FLOW
PLAN

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

PROFILE



LEGEND

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- PROPOSED RIDGE LINE

RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION
MICRO-FILM INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE

ENGINEER'S SEAL
16205
1-16-08

NO	DATE	REMARKS	BY
1	1/11/08	ADDED SHEET	TJA

REVISIONS
DESIGN

DESIGNED BY: TJA — DATE: JUN 2007
DRAWN BY: JLL — DATE: JUN 2007
CHECKED BY: MJI — DATE: JUN 2007

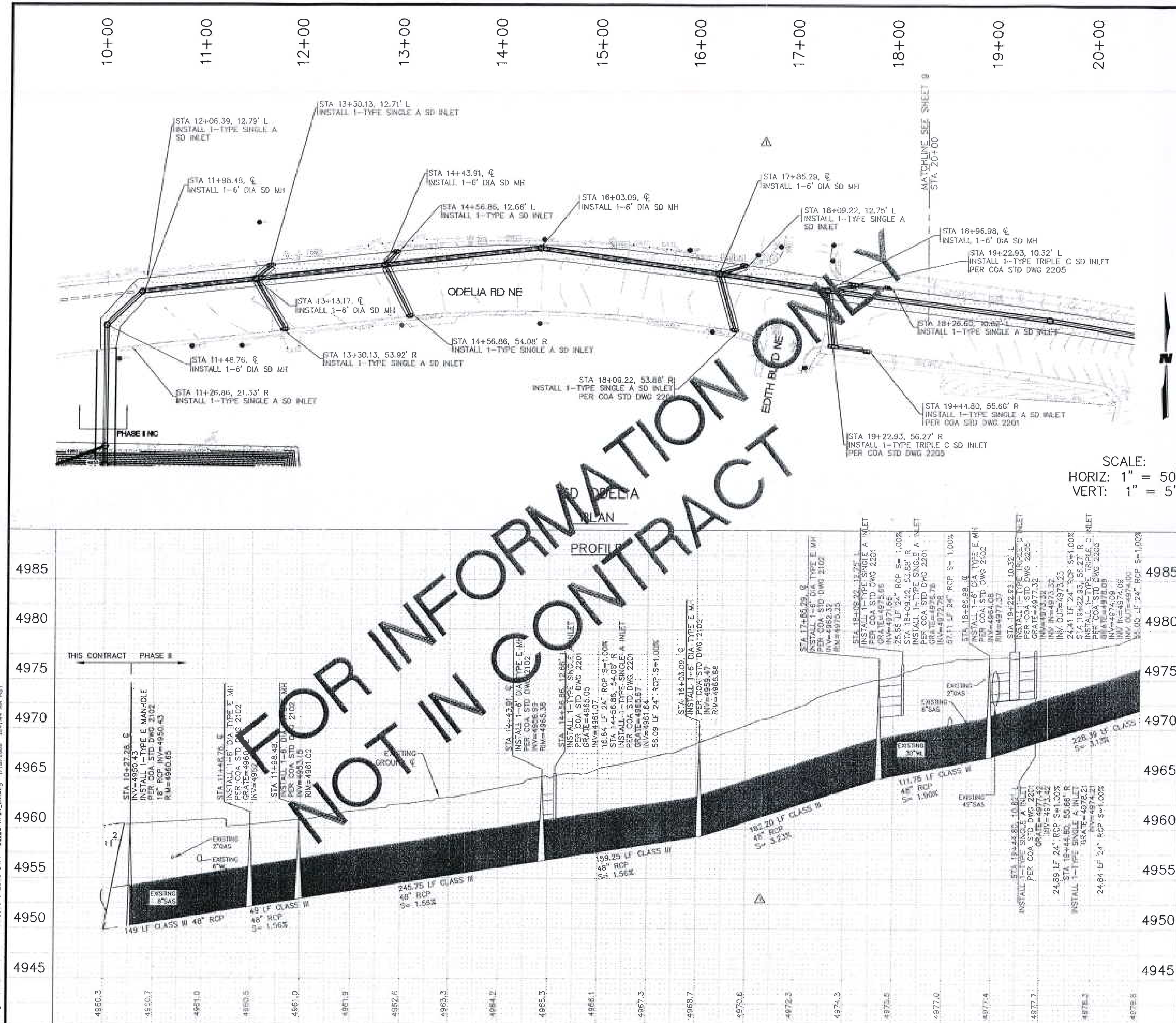
WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
18" RCP STORM DRAIN PLAN & PROFILE
STA 10+00 TO 12+37.98

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 7A 01 12



LEGEND

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- UNPAVED ROAD
- TRAIL
- FENCE
- BUILDING
- LIGHT POLE
- UTILITY POLES
- GUY WIRE
- TREE
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- PROPOSED RETAINING WALL
- PROPOSED RIDGE LINE

RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION — CONTRACTOR NMU DATE 8/10; NMU DATE 8/10; NMU DATE 8/10; WCI DATE 8/10

MICRO-FILM INFORMATION

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES | NO. | BY | DATE

ENGINEER'S SEAL — 16205 — 1-16-08 — LICENSED PROFESSIONAL ENGINEER

NO	DATE	REMARKS	BY
1	1/11/08	REVISED GRADING	TJA

REVISIONS

DESIGN	
DESIGNED BY: TJA	DATE: JUN 2007
DRAWN BY: JLL	DATE: JUN 2007
CHECKED BY: MJH	DATE: JUN 2007

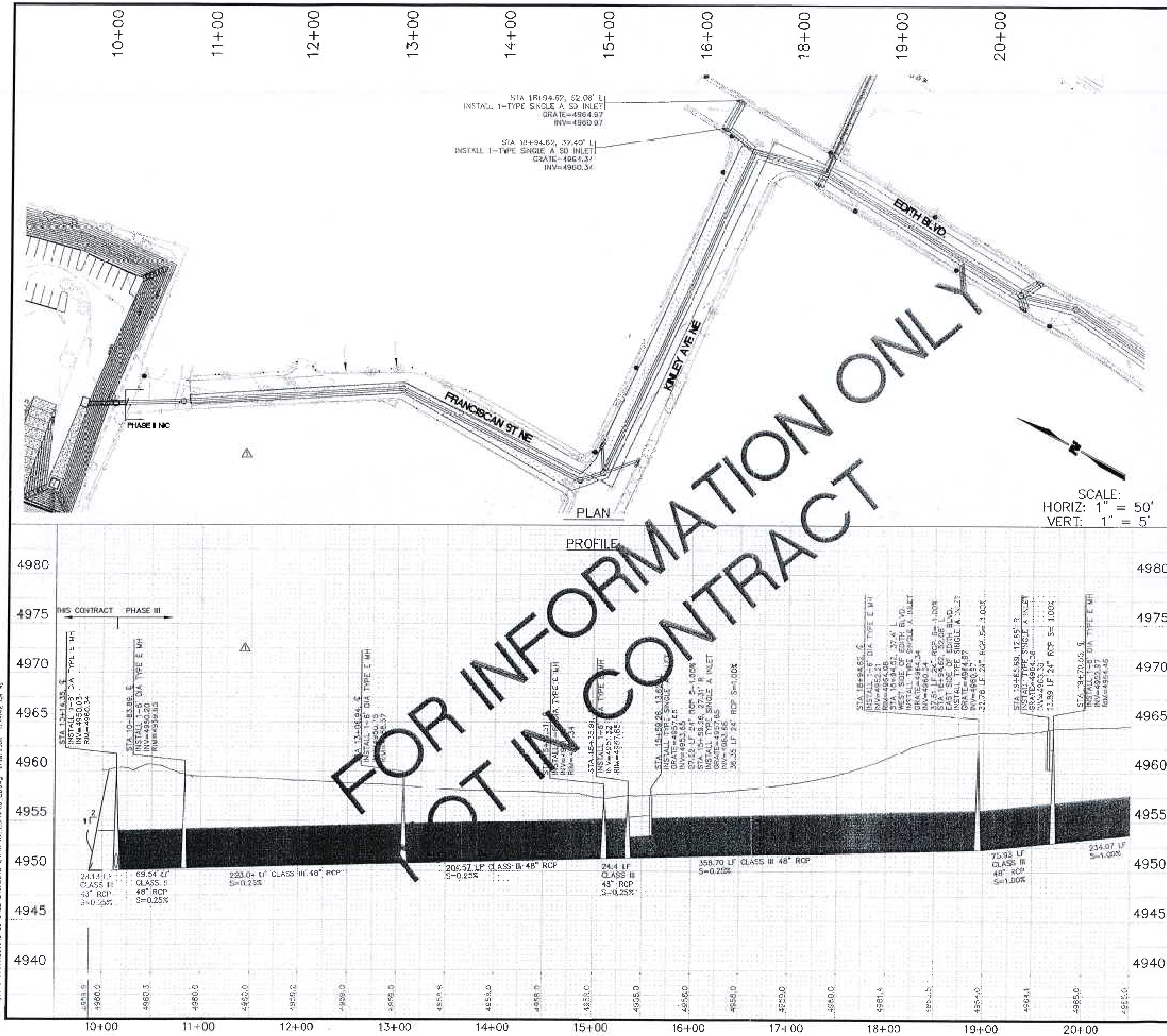
WILSON & COMPANY
2600 THE AMERICAN ROAD S.E. SUITE 100 RIO RANCHO, NEW MEXICO 87124 (505) 898-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
STORM DRAIN PLAN & PROFILE
STA 10+00 TO 20+00

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 8 of 12



LEGEND

PAVED ROAD
UNPAVED ROAD
TRAIL
FENCE
BUILDING
LIGHT POLE
UTILITY POLES
GUY WIRE
TREE
TREE
TREE
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RECORD DRAWING
DATE 8/4/10

AS BUILT INFORMATION — CONTRACTOR N.M.U. DATE 8/10

SURVEY INFORMATION — FIELD NOTES — NO. BY DATE

BENCH MARKS

MICRO-FILM INFORMATION

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	1/11/08	REVISED GRADING	TJA

REVISIONS

DESIGN — DESIGNED BY: TJA, DATE: JUN 2007; DRAWN BY: JLL, DATE: JUN 2007; CHECKED BY: MJ, DATE: JUN 2007

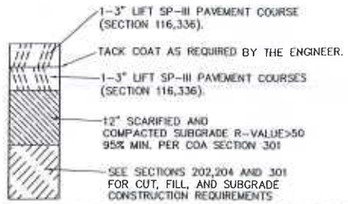
WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
DEPARTMENT MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

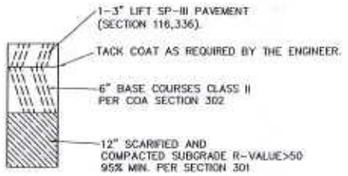
TITLE: **FLOOD CONTROL ON-CALL CONTRACT**
KINLEY LATERAL EXTENSION STORM DRAIN PLAN & PROFILE
STA 10+00 TO 20+00

Design Review Committee | City Engineer Approval | Last Design Update

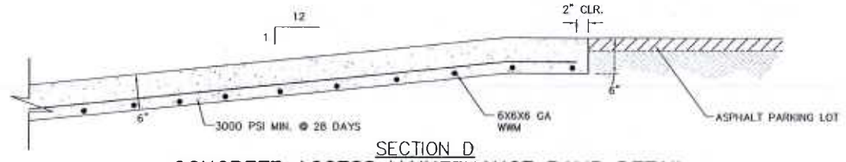
City Project No. 7963.07 | Zone Map No. J-14-Z | Sheet 9 of 12



FLEXIBLE PAVEMENT SECTION (2405B)
N.T.S.



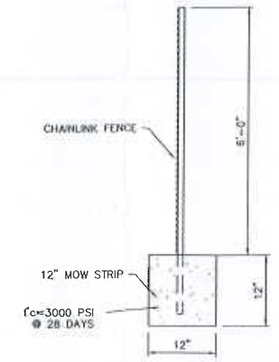
PARKING LOT PAVEMENT SECTION
N.T.S.



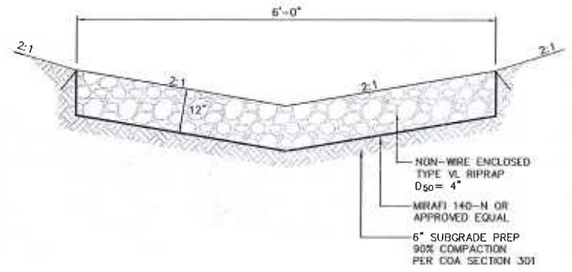
SECTION D

CONCRETE ACCESS MAINTENANCE RAMP DETAIL
SCALE: 1" = 1'

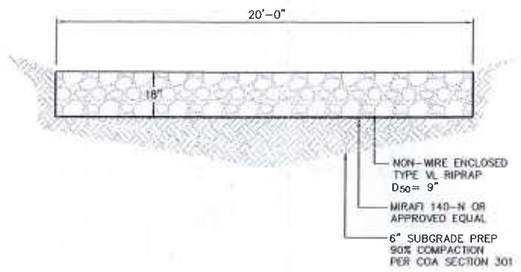
NOTE:
ASPHALT ACCESS ROAD WILL BE INSTALLED AS PART OF LANDSCAPE TRAIL PLAN (SEPARATE CONTRACT).



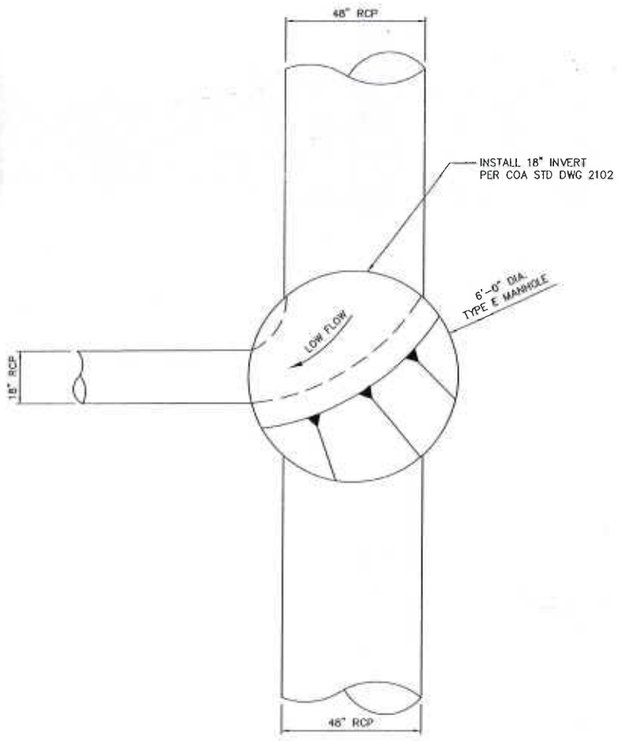
6'-0" HIGH CHAINLINK FENCE W/ MOW STRIP
SCALE: NTS



RIPRAP RUNDOWN DETAIL
SCALE: NTS



RIPRAP OUTLET DETAIL
SCALE: NTS



18" RCP LOW FLOW MANHOLE
SCALE: 1"=2'-0"

AS BUILT INFORMATION
CONTRACTOR DATE 8/16
WORK DATE 8/16
INSPECTOR DATE
AGREEMENT RANGE BY DATE
RECREATION BY DATE 8/16
DRAWINGS BY DATE 8/16
MICRO-FILM INFORMATION
RECEIVED BY DATE
NO.

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
16205
1-16-08

NO	DATE	REMARKS
1	1/11/08	REVISED GRADING

REVISIONS BY
DESIGN
DESIGNED BY: TJA DATE: JUN 2007
DRAWN BY: JJL DATE: JUN 2007
CHECKED BY: WJ DATE: JUN 2007

WILSON & COMPANY
4900 LOMAS BOULEVARD NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT
DETAILS

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 10 OF 12

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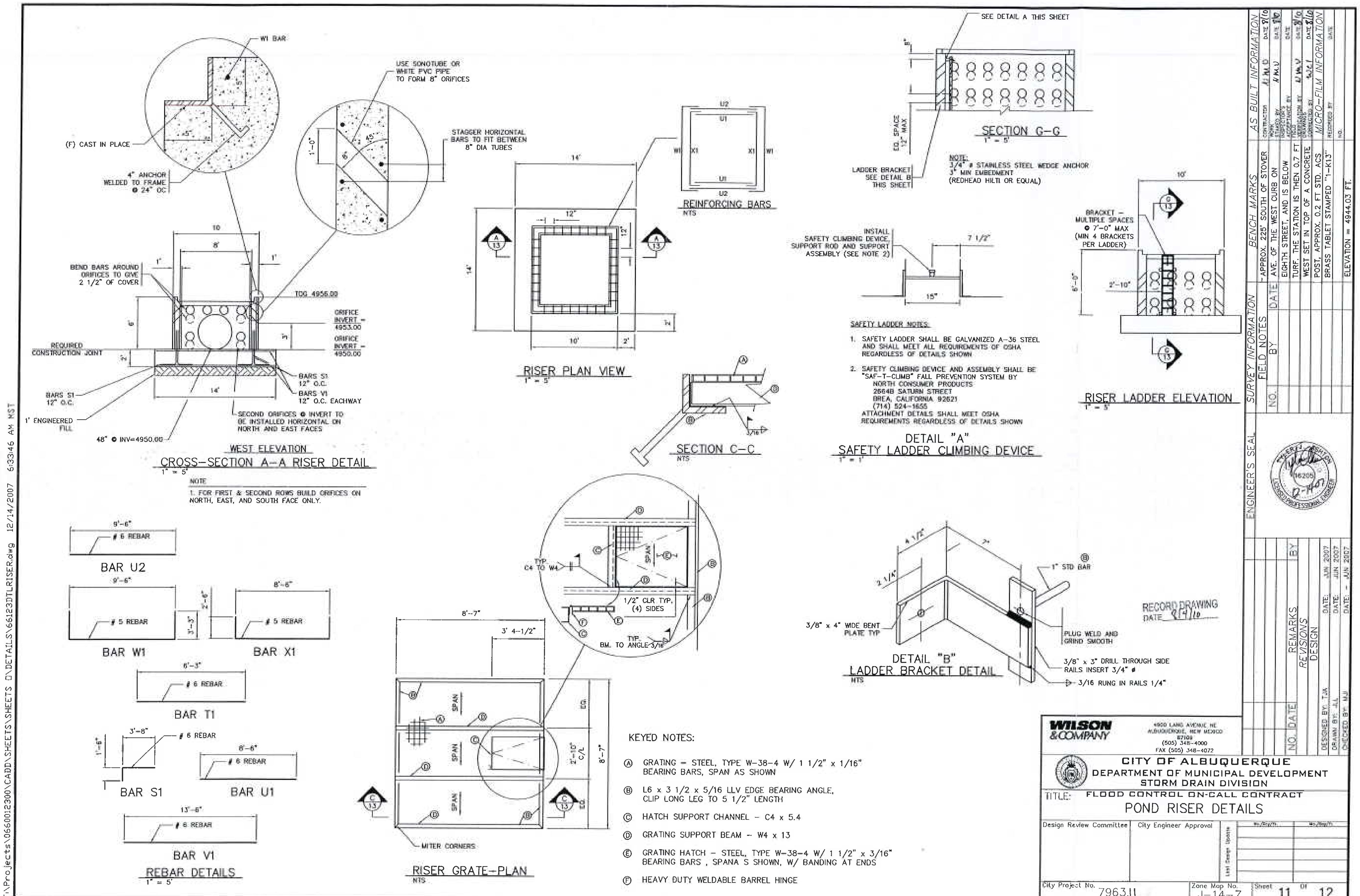
W1 BAR
(F) CAST IN PLACE
4" ANCHOR WELDED TO FRAME @ 24" OC
USE SONOTUBE OR WHITE PVC PIPE TO FORM 8" ORIFICES
STAGGER HORIZONTAL BARS TO FIT BETWEEN 8" DIA TUBES
BEND BARS AROUND ORIFICES TO GIVE 2 1/2" OF COVER
TOG 4956.00
ORIFICE INVERT = 4953.00
ORIFICE INVERT = 4950.00
REQUIRED CONSTRUCTION JOINT
BARS S1 12" O.C.
BARS S1 12" O.C.
BARS V1 12" O.C. EACHWAY
1' ENGINEERED FILL
48" @ INV=4950.00
SECOND ORIFICES @ INVERT TO BE INSTALLED HORIZONTAL ON NORTH AND EAST FACES
WEST ELEVATION
CROSS-SECTION A-A RISER DETAIL
1" = 5'
NOTE
1. FOR FIRST & SECOND ROWS BUILD ORIFICES ON NORTH, EAST, AND SOUTH FACE ONLY.
RISER PLAN VIEW
1" = 5'
REINFORCING BARS
NTS
SEE DETAIL A THIS SHEET
EQ. SPACE 12" MAX
LADDER BRACKET SEE DETAIL B THIS SHEET
SECTION G-G
1" = 5'
NOTE:
3/4" ø STAINLESS STEEL WEDGE ANCHOR 3" MIN EMBEDMENT (REDHEAD HILTI OR EQUAL)
INSTALL SAFETY CLIMBING DEVICE, SUPPORT ROD AND SUPPORT ASSEMBLY (SEE NOTE 2)
SAFETY LADDER NOTES:
1. SAFETY LADDER SHALL BE GALVANIZED A-36 STEEL AND SHALL MEET ALL REQUIREMENTS OF OSHA REGARDLESS OF DETAILS SHOWN
2. SAFETY CLIMBING DEVICE AND ASSEMBLY SHALL BE "SAF-T-CLIMB" FALL PREVENTION SYSTEM BY NORTH CONSUMER PRODUCTS 2664B SATURN STREET BREA, CALIFORNIA 92621 (714) 524-1655 ATTACHMENT DETAILS SHALL MEET OSHA REQUIREMENTS REGARDLESS OF DETAILS SHOWN
DETAIL "A"
SAFETY LADDER CLIMBING DEVICE
1" = 1'
SECTION C-C
NTS
BRACKET - MULTIPLE SPACES @ 7'-0" MAX (MIN 4 BRACKETS PER LADDER)
RISER LADDER ELEVATION
1" = 5'
BAR U2
BAR W1
BAR X1
BAR T1
BAR S1
BAR U1
BAR V1
REBAR DETAILS
1" = 5'
TYP. C4 TO W4
1/2" CLR TYP. (4) SIDES
TYP. BM. TO ANGLE
MITER CORNERS
RISER GRATE-PLAN
NTS
3/8" x 4" WIDE BENT PLATE TYP
1" STD BAR
PLUG WELD AND GRIND SMOOTH
3/8" x 3" DRILL THROUGH SIDE RAILS INSERT 3/4" ø
3/16 RUNG IN RAILS 1/4"
DETAIL "B"
LADDER BRACKET DETAIL
NTS
RECORD DRAWING
KEYED NOTES:
(A) GRATING - STEEL, TYPE W-38-4 W/ 1 1/2" x 1/16" BEARING BARS, SPAN AS SHOWN
(B) L6 x 3 1/2 x 5/16 LLV EDGE BEARING ANGLE, CLIP LONG LEG TO 5 1/2" LENGTH
(C) HATCH SUPPORT CHANNEL - C4 x 5.4
(D) GRATING SUPPORT BEAM - W4 x 13
(E) GRATING HATCH - STEEL, TYPE W-38-4 W/ 1 1/2" x 3/16" BEARING BARS, SPANA S SHOWN, W/ BANDING AT ENDS
(F) HEAVY DUTY WELDABLE BARREL HINGE
AS BUILT INFORMATION
MICRO-FILM INFORMATION
SURVEY INFORMATION
FIELD NOTES
BENCH MARKS
"APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.
ENGINEER'S SEAL
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DESIGNED BY: TJK
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4900 LANG AVENUE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 348-4000 FAX (505) 348-4072
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION
TITLE: FLOOD CONTROL ON-CALL CONTRACT
POND RISER DETAILS
Design Review Committee
City Engineer Approval
City Project No. 7963.11
Zone Map No. J-14-Z
Sheet 11 Of 12
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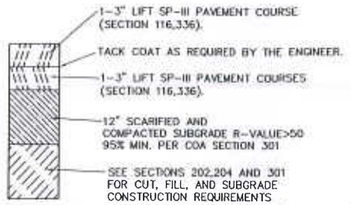
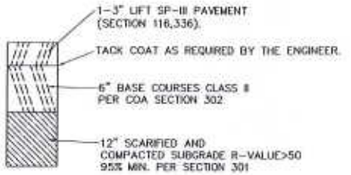
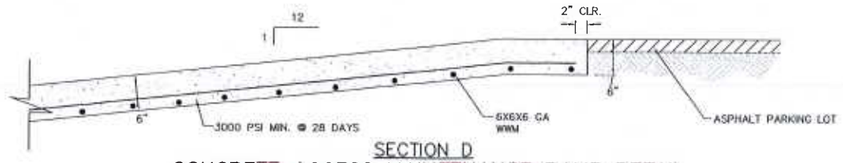


FLEXIBLE PAVEMENT SECTION (2405B)
N.T.S.

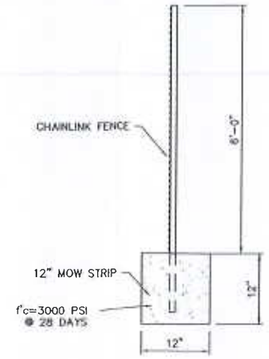


PARKING LOT PAVEMENT SECTION
N.T.S.

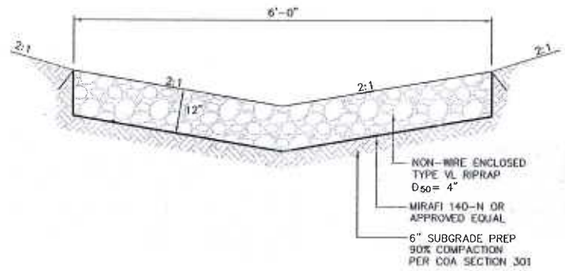


SECTION D
CONCRETE ACCESS MAINTENANCE RAMP DETAIL
SCALE: 1" = 1'

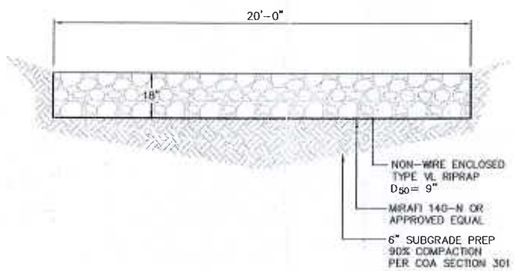
NOTE:
ASPHALT ACCESS ROAD WILL BE INSTALLED AS PART OF LANDSCAPE TRAIL PLAN (SEPARATE CONTRACT).



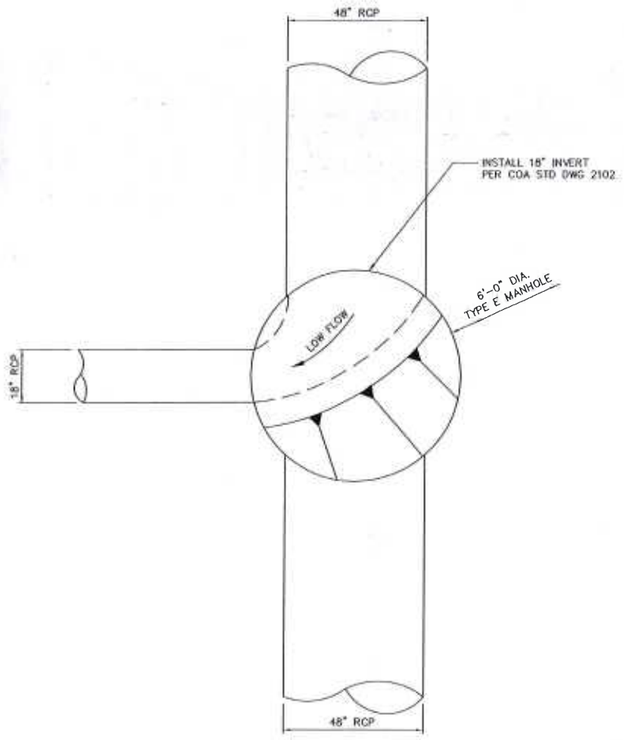
6'-0" HIGH CHAINLINK FENCE W/ MOW STRIP
SCALE: NTS



RIPRAP RUNDOWN DETAIL
SCALE: NTS



RIPRAP OUTLET DETAIL
SCALE: NTS



18" RCP LOW FLOW MANHOLE
SCALE: 1"=2'-0"

RECORD DRAWING
DATE 8/4/10

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DIVISION

TITLE: FLOOD CONTROL ON-CALL CONTRACT

DETAILS

Design Review Committee	City Engineer Approval	Last Design Update		

City Project No.	Zone Map No.	Sheet	Of
7963.11	J-14-Z	10	12

AS BUILT INFORMATION

BENCH MARKS
- APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT. STD. ACS BRASS TABLET STAMPED "1-K13"
- ELEVATION = 4944.03 FT.

SURVEY INFORMATION
FIELD NOTES

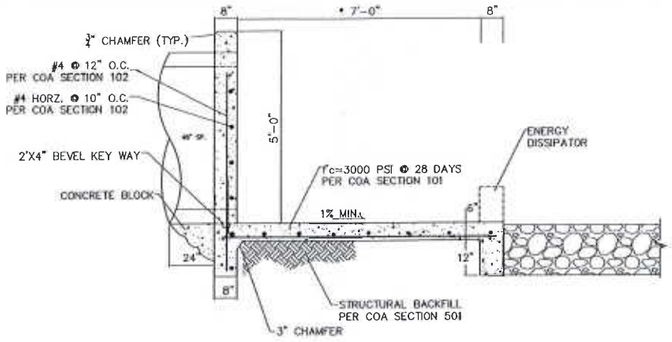
NO	BY	DATE

ENGINEER'S SEAL
(16205)
1-16-08

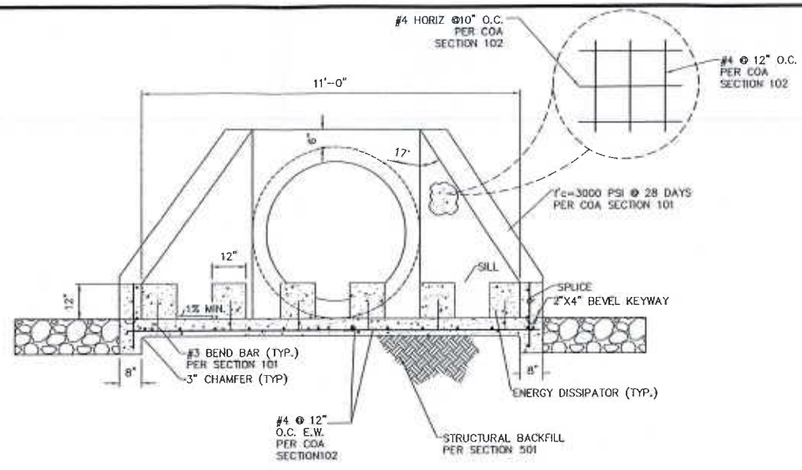
NO	DATE	REVISED DRAWING REMARKS
1	1/11/08	REVISIONS DESIGN

DESIGNED BY: TJA DATE: JUN 2007
DRAWN BY: JLL DATE: JUN 2007
CHECKED BY: MJS DATE: JUN 2007

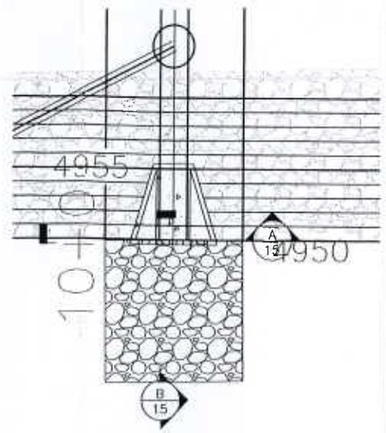
T:\Projects\06600\8300\CADD\SHEETS\SHEETS D\DETAILS\66123DTL01_DD.dwg 1/16/2008 11:43:51 AM MST



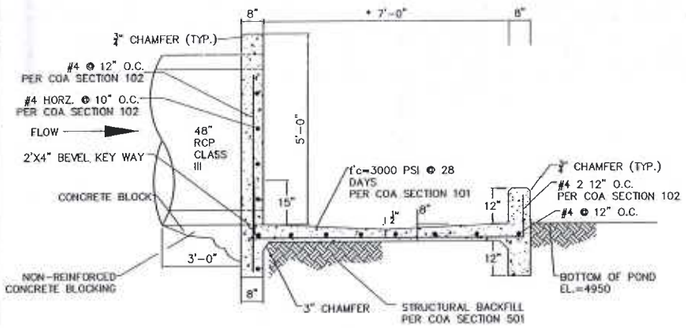
SECTION–B ODELIA STORM DRAIN OUTFALL DETAIL
SCALE: 1"=2'-0"



SECTION–A ODELIA STORM DRAIN OUTFALL DETAIL
SCALE: 1"=2'-0"

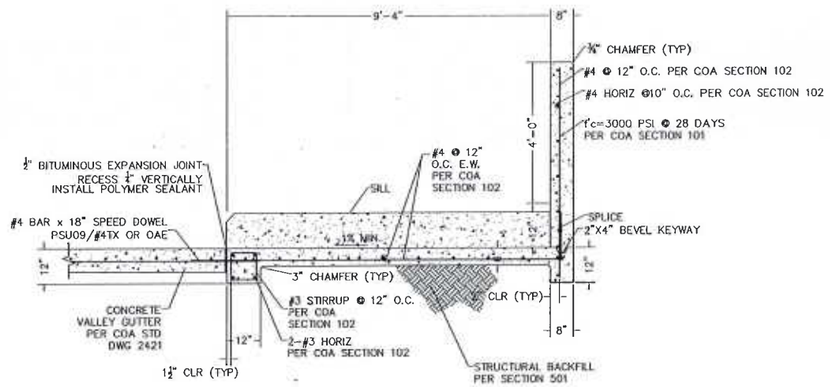


ODELIA STORM DRAIN OUTFALL
SCALE: 1"=10'-0"

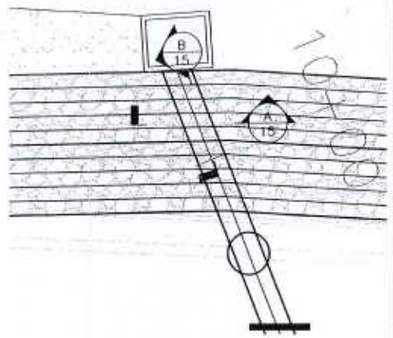


SECTION–B KINLEY STORM DRAIN OUTFALL DETAIL
SCALE: 1"=2'-0"

* SKEWED DIMENSION MEASURED ALONG CENTERLINE



SECTION–A KINLEY STORM DRAIN OUTFALL DETAIL
SCALE: 1"=2'-0"



KINLEY STORM DRAIN OUTFALL
SCALE: 1"=10'-0"

RECORD DRAWING
DATE 3/4/10

AS BUILT INFORMATION
CONTRACTOR — DATE 8/06
WORK INSPECTED BY — DATE 8/06
PROJECT ENGINEER — DATE 8/06
FIELD VERIFIED BY — DATE 8/06
CORRECTED BY — DATE 8/06
MICRO-FILM INFORMATION
RECORDED BY — DATE

BENCH MARKS
APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
16205
1-16-08

NO	DATE	REVISIONS	DESIGNED BY	DRAWN BY	CHECKED BY
1	1/11/08	REVISED GRADING	TJA	JLL	MJ

DESIGN — DATE: JUN. 2007 — TJA
DRAWN — DATE: JUN. 2007 — JLL
CHECKED — DATE: JUN. 2007 — MJ

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4900 LANG AVENUE NE
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OUTFALL DETAILS

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.11 | Zone Map No. J-14-Z | Sheet 12 Of 12

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