

# Wing South Airpark Extension Construction Plans

Located in Collier County  
Section 16, Township 50 South, Range 26 East

PPL-2008-AR-14094 REV: 2  
WINGSOUTH AIRPARK  
Project:2008100006  
Date: 7/6/09 DUE: 8/3/09

ENGINEERING SERVICES DEPARTMENT  
THIS PROJECT HAS BEEN REVIEWED AND APPROVED FOR SUFFICIENCY WITH COLLIER COUNTY'S LAND DEVELOPMENT CODE. THE ENTITY/ENGINEER OF RECORD SIGNING AND SEALING THESE PLANS WILL BE ACCOUNTABLE FOR ADEQUACY OF DESIGN OF ALL INFRASTRUCTURE FACILITIES AS EXHIBITED BY THESE DRAWINGS.

AR NO. 19674  
APPROVED N/A

ENGINEERING PROJECT REVIEW \_\_\_\_\_  
RIGHT-OF-WAY PERMIT \_\_\_\_\_  
WATER MANAGEMENT PLAN \_\_\_\_\_  
SITE CLEARING (INFRASTRUCTURE) \_\_\_\_\_

ENGINEERING \_\_\_\_\_ DATE 8/2/09

## Index of Sheets

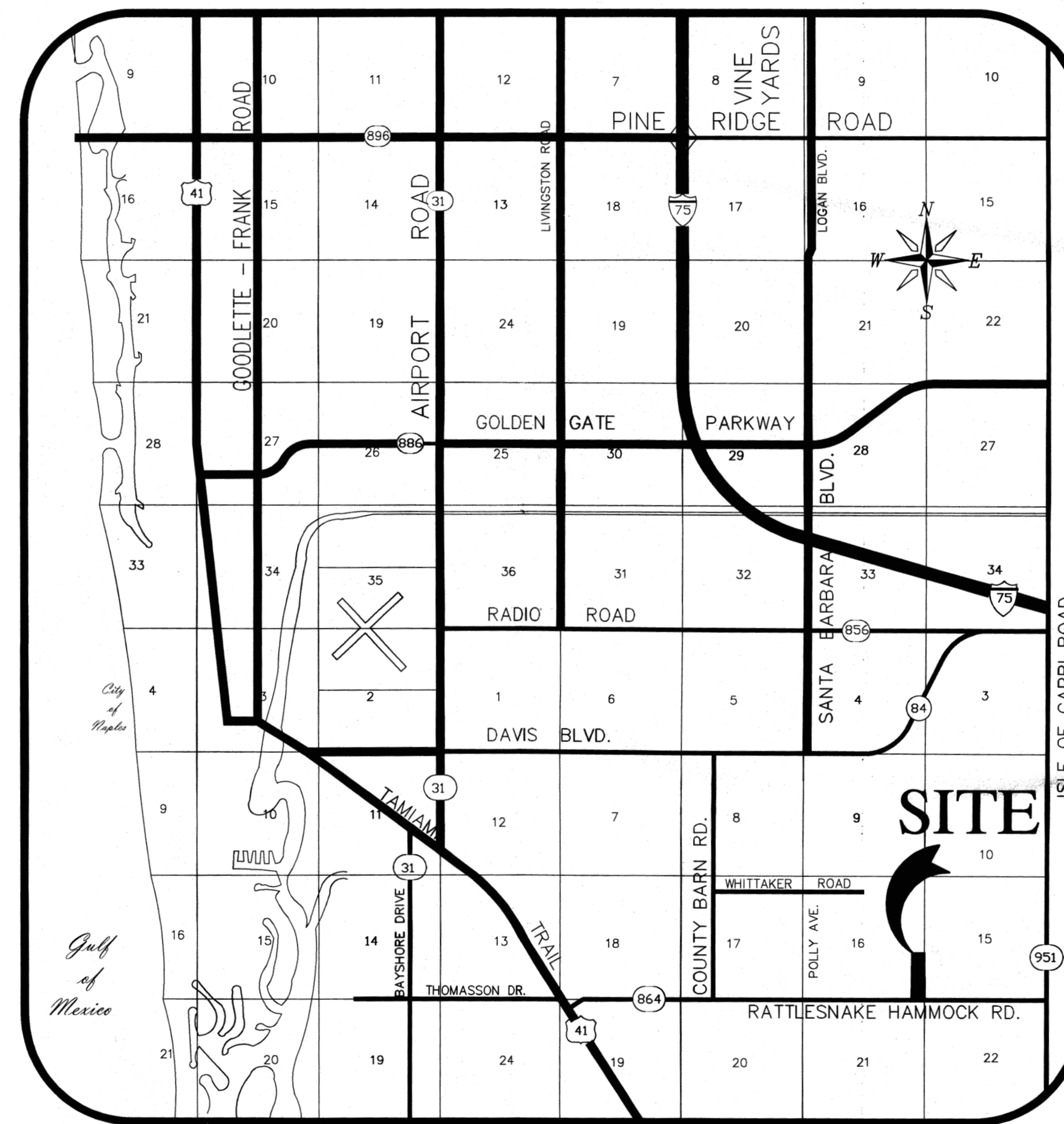
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11.	WATER AND SEWAGE DISTRIBUTION SYSTEM DETAILS
12.	SEWAGE COLLECTION SYSTEM DETAILS

Owner/Developer:

**Wing South Airpark**  
4226 Skyway Drive  
Naples, Fl. 34112  
Tel. 734-658-4520

COLLIER COUNTY ZONING: PUD

COLLIER COUNTY FOLIO NUMBER: 73284000507



Location Map  
N.T.S.

### LEGAL DESCRIPTION

OFFICIAL RECORDS BOOK 2203 PAGE 0076

ALL THAT PART OF SECTION 16, TOWNSHIP 50 SOUTH, RANGE 26 EAST, COLLIER COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 16, THENCE ALONG THE EAST LINE OF SAID SECTION 16, NORTH 01°15'14" WEST 50.01 FEET TO THE NORTHERLY LINE OF COUNTY ROAD 864 (RATTLESNAKE HAMMOCK ROAD); THENCE ALONG SAID RIGHT-OF-WAY LINE NORTH 89° 11' 52" WEST 235.03 FEET TO THE EAST LINE OF A ROAD RIGHT-OF-WAY BEING PART OF WING SOUTH PRIVATE VILLAS UNIT "A" ACCORDING TO THE PLAT THEREOF AS RECORDED IN CONDOMINIUM PLAT BOOK 4, PAGE 46, COLLIER COUNTY PUBLIC RECORDS, COLLIER COUNTY, FLORIDA;

THENCE ALONG SAID RIGHT-OF-WAY LINE THE FOLLOWING TWO (2) DESCRIBED COURSES:  
1) NORTH 0° 48' 08" EAST 2.44 FEET;  
2) NORTHWESTERLY 53.24 FEET ALONG THE ARC OF A CIRCULAR CURVE CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 235.00 FEET AND BEING SUBTENDED BY A CHORD WHICH BEARS NORTH 05° 41' 15" WEST 53.12 FEET TO THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED;  
THENCE CONTINUE ALONG SAID RIGHT-OF-WAY LINE THE FOLLOWING THREE (3) DESCRIBED COURSES:  
1) NORTHWESTERLY 162.30 FEET ALONG THE ARC OF A CIRCULAR CURVE CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 235.00 FEET AND BEING SUBTENDED BY A CHORD WHICH BEARS NORTH 31° 57' 43" WEST 159.10 FEET TO A POINT OF REVERSE CURVATURE;  
2) NORTHWESTERLY 122.24 FEET ALONG THE ARC OF A CIRCULAR CURVE CONCAVE TO THE NORTHEAST HAVING A RADIUS OF 135.98 FEET AND BEING SUBTENDED BY A CHORD WHICH BEARS NORTH 25° 58' 40" WEST 118.17 FEET;  
3) NORTH 0° 14' 25" WEST 512.15 FEET;  
THENCE LEAVING SAID RIGHT-OF-WAY LINE NORTH 89° 45' 35" EAST 135.00 FEET TO THE WEST LINE OF A RUNWAY AND TAXIWAY EASEMENT AS DESCRIBED IN O.R. 593, PAGE 301, COLLIER COUNTY PUBLIC RECORDS, COLLIER COUNTY, FLORIDA; THENCE ALONG SAID WEST LINE SOUTH 0° 14' 25" EAST 753.91 FEET TO THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED; SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

### Revisions

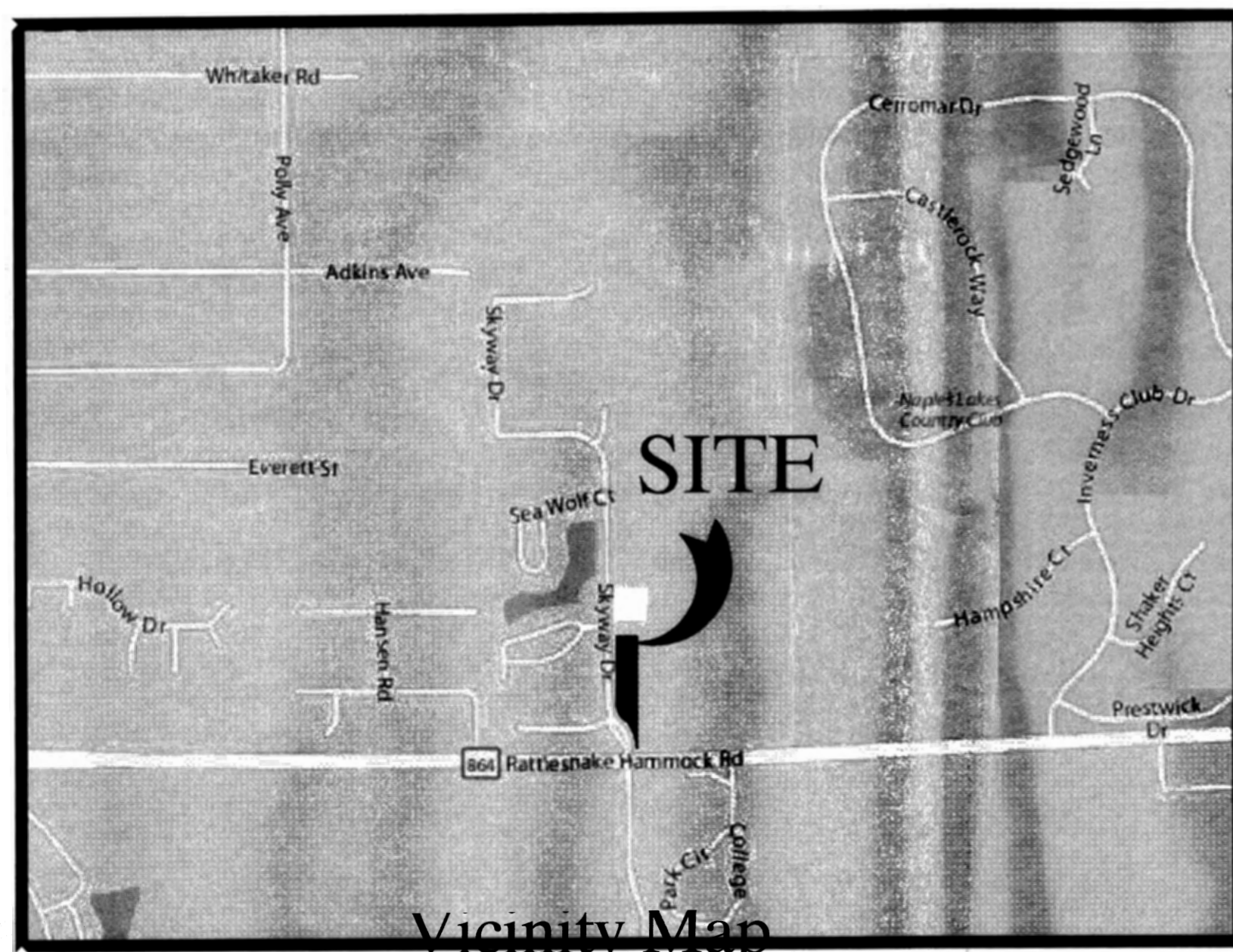
Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

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JUN 29 2009

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CIVIL ENGINEERS-LAND SURVEYORS

MICHAEL J. DELATE, P.E.  
Q. GRADY MINOR & ASSOC., P.A.  
3800 VIA DEL REY  
BONITA SPRINGS, FL 34134  
FLORIDA P.E. LICENSE NO. 49442  
EB/LB 0005151



Vicinity Map  
N.T.S.

Prepared by:

**Q. GRADY MINOR & ASSOCIATES, P.A.**  
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Wing South Airpark Extension  
Construction Plans

Q. GRADY MINOR AND ASSOCIATES, P.A.  
BONITA SPRINGS OFFICE

DATE: October, 2008  
FILE NAME : WS SITE  
JOB CODE : WS  
SHEET NUMBER 1 OF 12



**LEGEND**

Revision	Date	Description

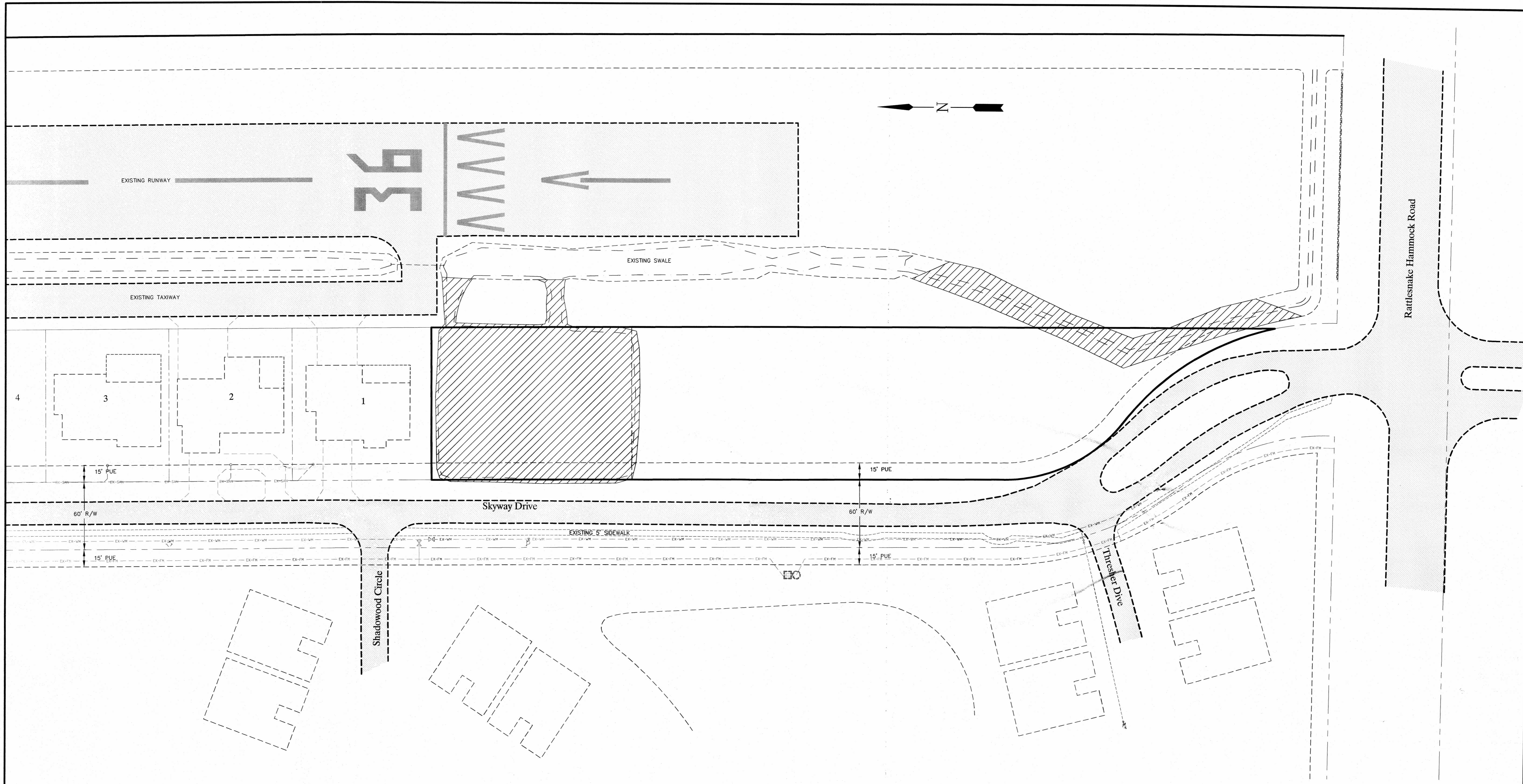
DESIGNED BY:	MJD
DRAWN BY:	GS
APPROVED:	MJD
JOB CODE:	WS1
SCALE:	1" = 30'



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*Wing South Airpark*  
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 JUN 29 2009 Aerial Site Plan

MUNICIPALITY: Collier County  
 SEC./TOWNSHIP/RNG: 16/50S/26E  
 DATE: October 2008  
 FILE NAME: WS AERIAL  
 MICHAEL J. DELATE, P.E.  
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 BONITA SPRINGS, FL 34134  
 FLORIDA P.E. LICENSE NO. 49442  
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**SHEET 2 OF 12**

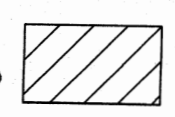


- NOTES:**
- 1) CONTRACTOR TO DEMOLISH AND REMOVE ALL IMPROVEMENTS WITHIN LIMITS OF DEMOLITION SHOWN UNLESS OTHERWISE NOTED.
  - 2) CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
  - 3) THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION.
  - 4) THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLITION DEBRIS OFF OWNERS PROPERTY.
  - 5) THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE.
  - 6) THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT AND ARE NOT IDENTIFIED TO BE REMOVED.

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AREA TO BE FILLED 

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

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 DRAWN BY: GS  
 APPROVED: M.J.D.  
 JOB CODE: WS1  
 SCALE: 1" = 40'

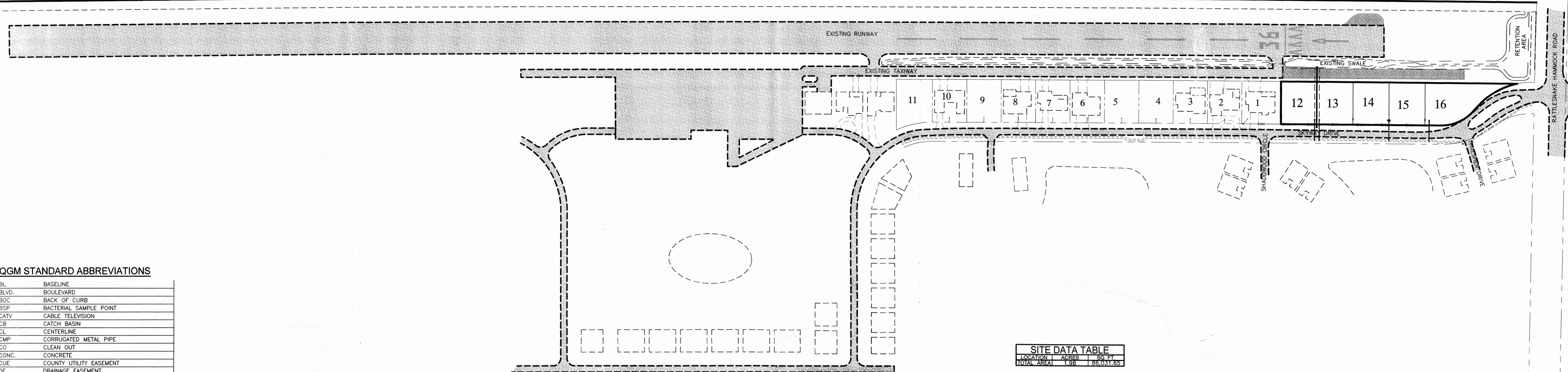
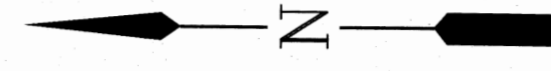
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**Wing South Airpark Extension**

Clearing Plan

MUNICIPALITY: Collier County  
 SEC./TOWNSHIP/RNG: 16/50S/26E  
 DATE: October 2008  
 FILE NAME: WS SITE  
 SHEET 3 OF 12

MICHAEL J. DELATE, P.E.  
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 FLORIDA P.E. LICENSE NO. 49442  
 EB/LB 0005151



**QGM STANDARD ABBREVIATIONS**

BL	BASELINE
BLVD.	BOULEVARD
BCC	BACK OF CURB
BSP	BACTERIAL SAMPLE POINT
CATV	CABLE TELEVISION
CB	CATCH BASIN
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC.	CONCRETE
CUE	COUNTY UTILITY EASEMENT
DE	DRAINAGE EASEMENT
DIP	DUCTILE IRON PIPE
EL. OR ELEV.	ELEVATION
EOP	EDGE OF PAVEMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
EXIST.	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FLARED END
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FFE	FINISHED FLOOR ELEVATION
F.H.	FIRE HYDRANT
FM	FORCE MAIN
FPL OR FP&L	FLORIDA POWER & LIGHT
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ.	HORIZONTAL
HW	HEADWALL
INC.	INCORPORATED
INV.	INVERT
IRR.	IRRIGATION
JB	JUNCTION BOX
LBR	LANDSCAPE BUFFER EASEMENT
L.F.	LINEAR FEET
LME	LAKE MAINTENANCE EASEMENT
ME	MITERED END
MH	MANHOLE
M.J.	MECHANICAL JOINT
MIN.	MINIMUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
PBSP	PERMANENT BACTERIAL SAMPLE POINT
PL	PROPERTY LINE
POT.	POTABLE
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVMT.	PAVEMENT
P.S.	PUMP STATION
RED.	REDUCER
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
SAN.	SANITARY
SB	SOIL BORING
ST.	STREET
STA.	STATION
SWK.	SIDEWALK
SWR.	SEWER
TBSP	TEMPORARY BACTERIAL SAMPLE POINT
TEMP.	TEMPORARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TYP.	TYPICAL
UE	UTILITY EASEMENT
VERT.	VERTICAL
VG	VALLEY GUTTER
W/	WITH
WCS	WATER CONTROL STRUCTURE
WM	WATER MAIN
YD	YARD DRAIN

LOCATION	ACRES	SQ. FT.
TOTAL AREA	1.48	86,031.69

**NOTES:**

1. THE WING SOUTH PROPERTY OWNERS ASSOC. OR THEIR ASSIGNS OR SUCCESSORS SHALL OWN AND MAINTAIN ALL OPEN SPACE, WATER MANAGEMENT, IRRIGATION SYSTEMS, COMMON AREAS, PRIVATE STREETS AND EASEMENTS.
2. ALL ON-SITE SANITARY SEWER AND POTABLE SYSTEMS WITHIN THE RIGHTS-OF-WAY SHALL BE OWNED AND MAINTAINED BY COLLIER COUNTY UTILITIES ALL OTHER WATER AND SEWER UTILITIES OUTSIDE OF EASEMENTS OR RIGHTS-OF-WAY SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNERS OR THEIR ASSIGNS OR SUCCESSORS.
3. WATER AND SANITARY SEWER SERVICE IS PROVIDED BY COLLIER COUNTY UTILITIES.
4. THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORDS.
5. ALL PROHIBITED EXOTIC VEGETATION SHALL BE REMOVED FROM THE SITE AND IT SHALL BE MAINTAINED FREE OF EXOTICS IN PERPETUITY.
6. PROJECT LIES WITHIN THE SHADOWWOOD PUD, ORD. No.'s 82-49 AND 08-43.

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JUN 29 2009

Q. GRADY MINOR & ASSOCIATES, P.A.  
CIVIL ENGINEERS-LAND SURVEYORS

**LEGEND**

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

DESIGNED BY:	MJD
DRAWN BY:	GS
APPROVED:	MJD
JOB CODE:	WS1
SCALE:	1" = 40'

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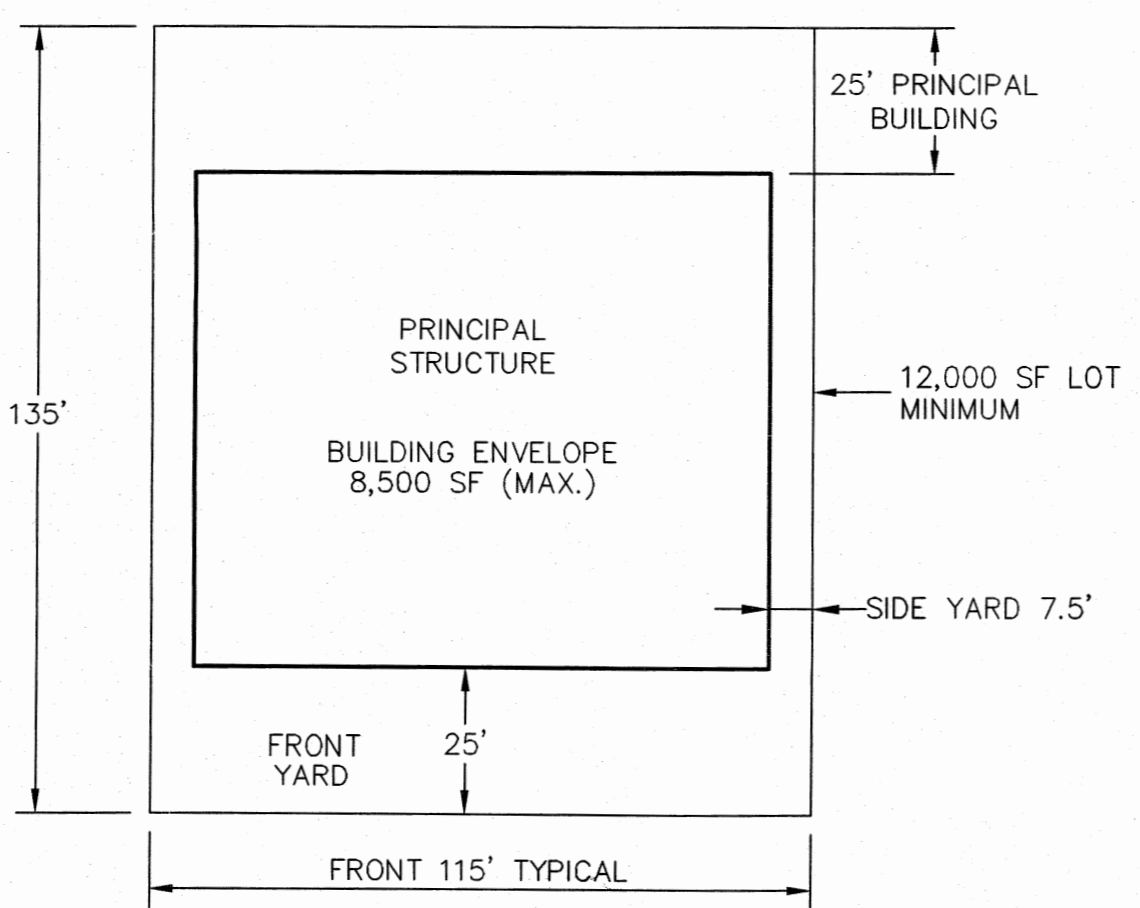
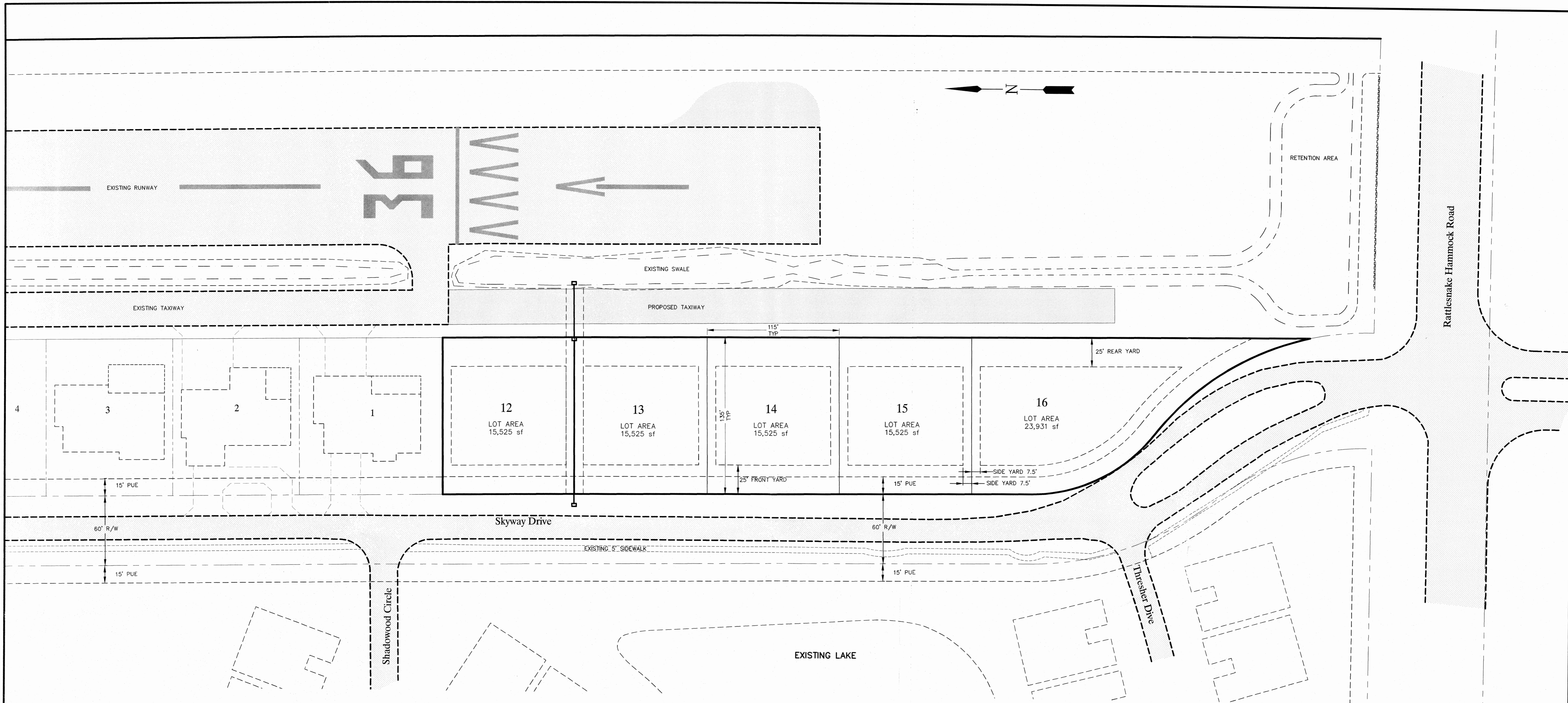
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*Wing South Airpark Extension*

Overall Site Plan and General Notes

MUNICIPALITY:	Collier County
SEC./TWNHP./RNG:	16/505/26E
DATE:	October 2008
FILE NAME:	WS SITE
MICHAEL J. DELATE, P.E. Q. GRADY MINOR & ASSOC., P.A. 3800 VIA DEL REY BONITA SPRINGS, FL 34134 FLORIDA P.E. LICENSE NO. 49442 EB/LB 0005151	SHEET 4 OF 12



\*SETBACKS MEASURED TO PROPERTY LINE  
**TYPICAL LOT LAYOUT W/ SETBACKS**

DEVELOPMENT STANDARDS		SINGLE-FAMILY, DETACHED	
PRINCIPAL STRUCTURES	REQUIRED	PROPOSED	
Minimum Lot Area	12,000 s.f.	15,525 s.f.	
Minimum Lot Width	100 feet	115 feet	
Minimum Floor Area	1,200 s.f.	1,500 s.f.	
Minimum Setbacks:			
Front	25 feet	25 feet	
Side	7.5 feet	7.5 feet	
Rear	25 feet	25 feet	
Minimum Distance Between Structures	15 feet	15 feet	
Maximum Building Height	3 Stories	2 Stories	
Maximum Actual Height	35	25	
ACCESSORY STRUCTURES			
Minimum Setbacks:	Per LDC Section 4.02.03		

All references to maximum height refer to the "zoned height" as defined in Section 1.08.02 of the Land Development Code.

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LEGEND	
	EXISTING PAVEMENT
	PROPOSED PAVEMENT

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

DESIGNED BY: M.J.D.  
 DRAWN BY: GS  
 APPROVED: M.J.D.  
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 SCALE: 1" = 40'

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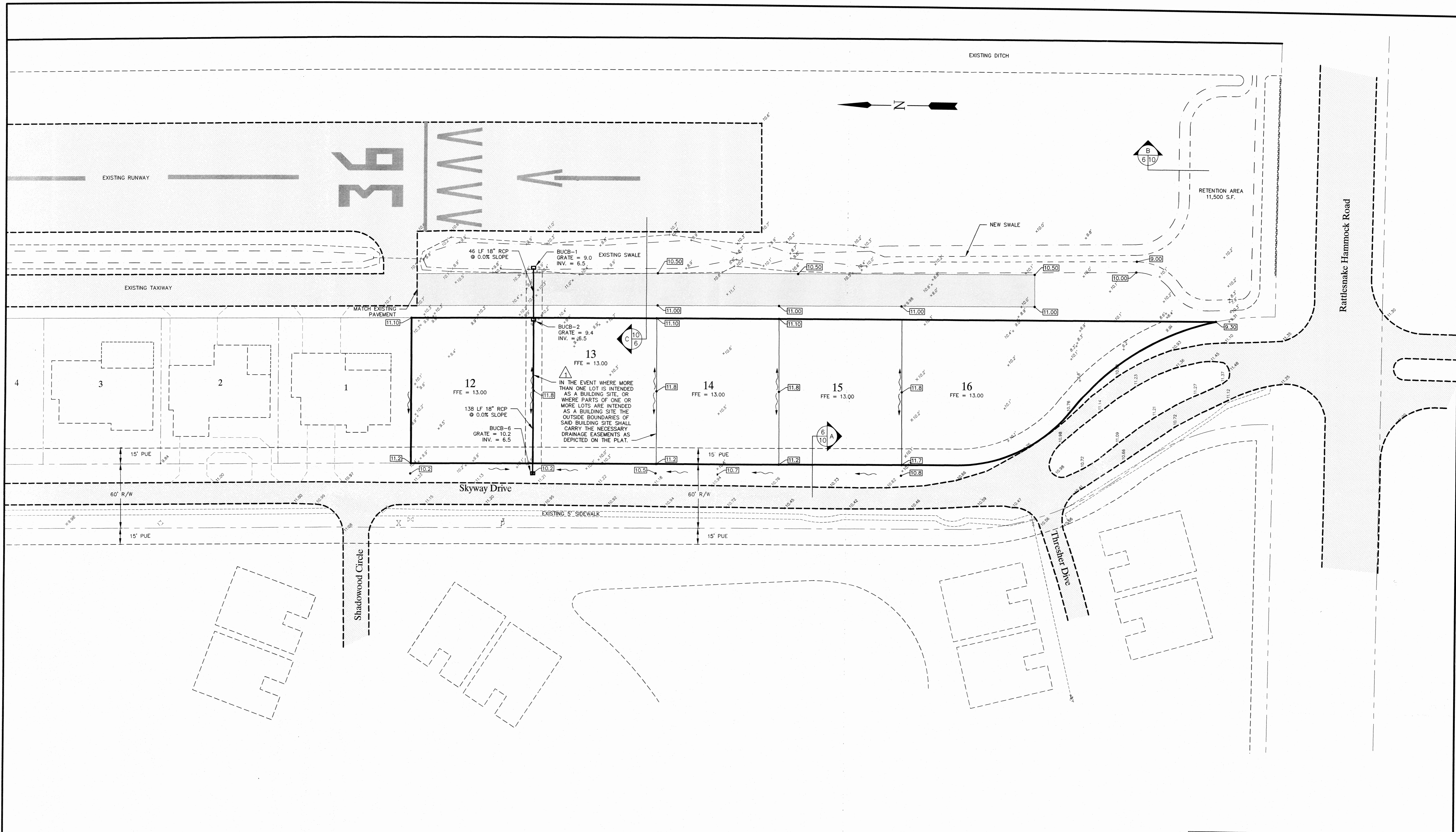
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Zoning Data Sheet

MUNICIPALITY: Collier County	FILE NAME: WS SITE
SEC./TNSHP/RNG: 16/50S/26E	SHEET 5 OF 12
DATE: October 2008	
MICHAEL J. DELATE, P.E. Q. GRADY MINOR & ASSOC., P.A. 3800 VIA DEL REY BONITA SPRINGS, FL 34134 FLORIDA P.E. LICENSE NO. 49442 EB/LB 0005151	



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**NOTE:**  
ALL GRADES DEPICTED ARE NGVD. (TO OBTAIN NAVD SUBTRACT 1.28')

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**LEGEND**

	EXISTING PAVEMENT		PROPOSED GRADE
	PROPOSED PAVEMENT		EXISTING GRADE
			DIRECTION OF EXISTING SURFACE FLOW

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

DESIGNED BY: M.J.D.  
DRAWN BY: GS  
APPROVED: M.J.D.  
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SCALE: 1" = 40'

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*Wing South Airpark Extension*  
**Grading, Paving and Drainage Plan**

MUNICIPALITY:	Collier County
SEC./TWNHP./RNG:	16/50S/26E
DATE:	October 2008
FILE NAME:	WS SITE

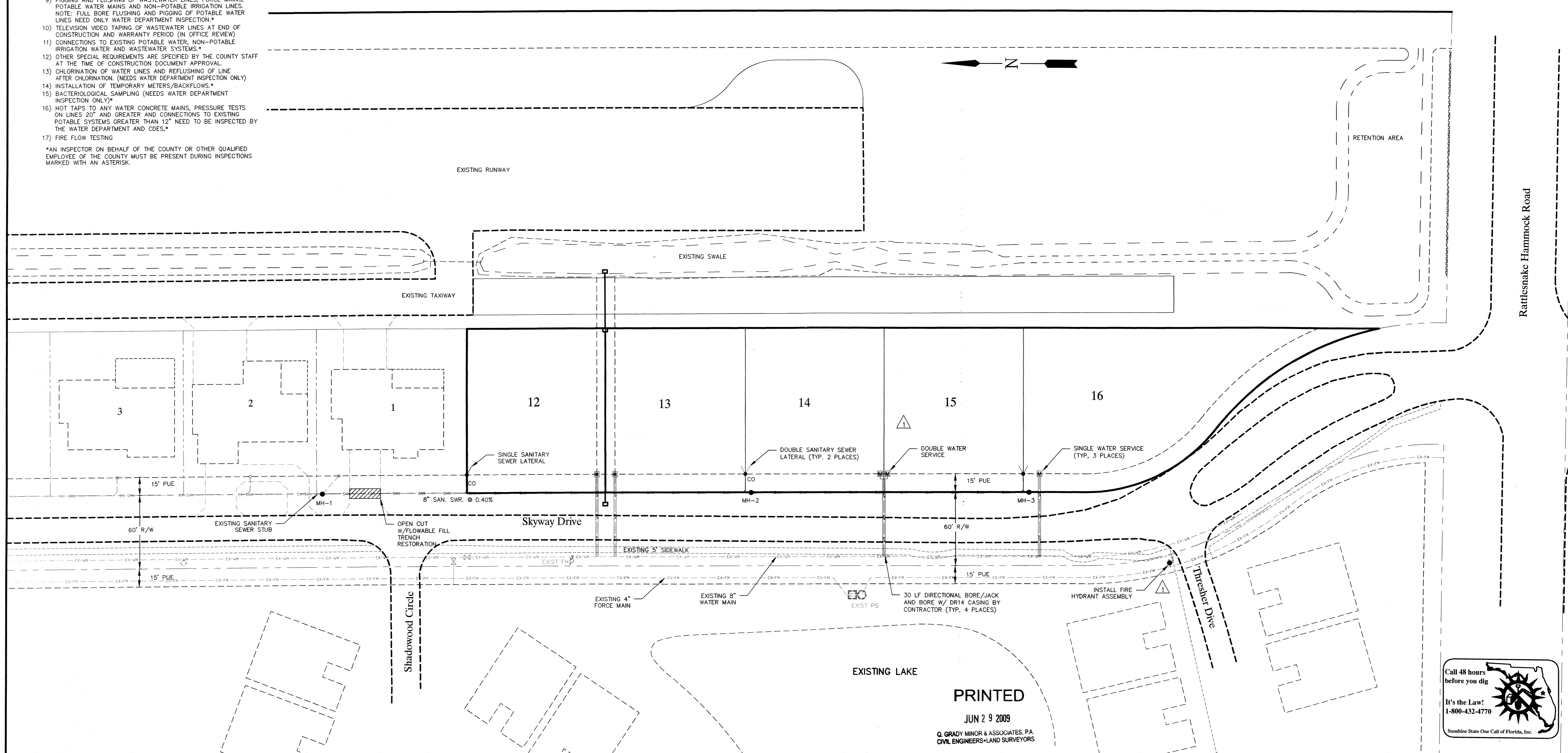
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Q. GRADY MINOR & ASSOC., P.A.  
3800 VIA DEL REY  
BONITA SPRINGS, FL 34134  
FLORIDA P.E. LICENSE NO. 49442

**GENERAL UTILITY NOTES:**

1. THE WATER METER SHALL BE SIZED BY COLLIER COUNTY. METERS 3" OR LARGER SHALL BE INSTALLED BY CONTRACTOR. COUNTY SHALL INSTALL SERVICE LEAD, METER BOX AND METER FOR ALL METERS 2" AND SMALLER.
2. WATER DISTRIBUTION SYSTEM TO BE OWNED AND MAINTAINED BY COLLIER COUNTY UTILITIES UP TO CUSTOMER SIDE OF WATER METER.
3. SANITARY SEWER SYSTEM, TO BE OWNED AND MAINTAINED BY COLLIER COUNTY UTILITIES.
4. WATER MAINS SHALL BE PVC (AWWA C-900) DR-18, EXCEPT DR-14, CLASS 200 UNDER PAVEMENT TO EXTEND 5' BOTH SIDES FROM B.O.C.
5. GRAVITY SEWER PIPES SHALL BE PVC (ASTM 3034) SDR26.
6. SANITARY LATERALS ARE 6" DIAMETER AT 1.00% MINIMUM SLOPE.
7. ANY LANDSCAPE MATERIALS DESTROYED DURING MAINTENANCE OF THE WATER AND/OR SEWER SYSTEMS SHALL BE THE RESPONSIBILITY OF THE OWNER TO REPLACE.
8. CONTRACTOR SHALL INSTALL 4" 3M ELECTRONIC BALL MARKERS EVERY 200 LF AND AT EACH PIPE ELBOW LOCATION.
9. COLLIER COUNTY REQUIRES 48 HOURS NOTICE TO BE PRESENT FOR THE FOLLOWING:
  - 1) HOT TAPS TO POTABLE WATER LINES LARGER THAN 6" AND WASTEWATER SYSTEMS LINES GREATER THAN 4".\*
  - 2) MASTER METER AND BYPASS PIPING.
  - 3) JACK & BORE CASINGS\*
  - 4) PRESSURE TESTS.\*
  - 5) INFILTRATION/EXFILTRATION TEST\*
  - 6) LIFT STATION INSTALLATION PRIOR TO COVER-UP AND START-UP\*
  - 7) LIFT STATION START-UP\*
  - 8) LAMPING OF SEWER LINES\*
  - 9) PIGGING AND FLUSHING OF WASTEWATER LINES, FORCE MAINS, POTABLE WATER MAINS AND NON-POTABLE IRRIGATION LINES. NOTE: FULL BORE FLUSHING AND PIGGING OF POTABLE WATER LINES NEED ONLY WATER DEPARTMENT INSPECTION.\*
  - 10) TELEVISION VIDEO TAPING OF WASTEWATER LINES AT END OF CONSTRUCTION AND WARRANTY PERIOD (IN OFFICE REVIEW)
  - 11) CONNECTIONS TO EXISTING POTABLE WATER, NON-POTABLE IRRIGATION WATER AND WASTEWATER SYSTEMS.\*
  - 12) OTHER SPECIAL REQUIREMENTS ARE SPECIFIED BY THE COUNTY STAFF AT THE TIME OF CONSTRUCTION DOCUMENT APPROVAL.
  - 13) CHLORINATION OF WATER LINES AND REFRESHING OF LINE AFTER CHLORINATION. (NEEDS WATER DEPARTMENT INSPECTION ONLY)
  - 14) INSTALLATION OF TEMPORARY METERS/BACKFLOWS.\*
  - 15) BACTERIOLOGICAL SAMPLING (NEEDS WATER DEPARTMENT INSPECTION ONLY)\*
  - 16) HOT TAPS TO ANY WATER CONCRETE MAINS, PRESSURE TESTS ON LINES 20" AND GREATER AND CONNECTIONS TO EXISTING POTABLE SYSTEMS GREATER THAN 12" NEED TO BE INSPECTED BY THE WATER DEPARTMENT AND CDES.\*
  - 17) FIRE FLOW TESTING

\*AN INSPECTOR ON BEHALF OF THE COUNTY OR OTHER QUALIFIED EMPLOYEE OF THE COUNTY MUST BE PRESENT DURING INSPECTIONS MARKED WITH AN ASTERISK.

10. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY ERRORS OR DISCREPANCIES OF THE PLANS PRIOR TO CONSTRUCTION.
11. EXISTING UTILITY INFORMATION WAS PLOTTED FROM AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY VARIATIONS FROM THE INFORMATION SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITIES PRIOR TO EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES. ANY DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ANY DESIGN MODIFICATION AND EXPENSE AS A RESULT OF EXISTING UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES AND SURVEY MARKERS IN THE AREA.
13. ALL 1-1/2" AND 2" POLYTUBE WATER SERVICES SHALL CONFORM TO AWWA C901.
14. ALL COLD-WATER METERS SHALL BE NEPTUNE AUTOREAD METERS PER IWSD STANDARD AND SHALL MEET REQUIREMENTS OF AWWA C700.
15. ALL WATER METER COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM WITH NSF STANDARD 61.
16. ALL VALVES MUST BE PLACED OUTSIDE OF PAVED AREAS (UNLESS SHOWN OTHERWISE)
17. PVC FOR PIPES SIZES 3" OR LESS SHALL MEET THE REQUIREMENTS OF ASTM D-1785 (INDICATES EITHER SCHEDULE 40 OR 80) OR ASTM D-2241.
18. ALL GRAVITY SEWER PIPES SHALL COMPLY WITH ASTM D3034, SDR 26 (PVC).
19. FIRE HYDRANT ASSEMBLIES CONFORM TO AWWA C-502 (DRY BARRELL) STANDARDS.



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JUN 2 9 2009  
Q. GRADY MINOR & ASSOCIATES, P.A.  
CIVIL ENGINEERS-LAND SURVEYORS

Call 48 hours before you dig  
It's the Law!  
1-800-432-4770  
Sunshine State One Call of Florida, Inc.

**LEGEND**

FH	EXISTING FIRE HYDRANT ASSEMBLY
●	MANHOLE
---	EXIST. WATER MAIN
---	EXIST. SANITARY SEWER
---	EXIST. FORCE MAIN
---	WATER MAIN
---	SANITARY SEWER
⊕	DOUBLE WATER METER
⊕	WATER METER
CO	CLEAN-OUT
CO	DOUBLE CLEAN-OUT
---	4" CONDUIT

DESIGNED BY:	MJD		
DRAWN BY:	GS		
APPROVED:	MJD		
JOB CODE:	WS1		
SCALE:	1" = 40'		
Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

**Q. GRADY MINOR & ASSOCIATES, P.A.**  
CIVIL ENGINEERS ■ LAND SURVEYORS ■ PLANNERS ■ LANDSCAPE ARCHITECTS

BONITA SPRINGS ■ FORT MYERS ■ NORTH PORT

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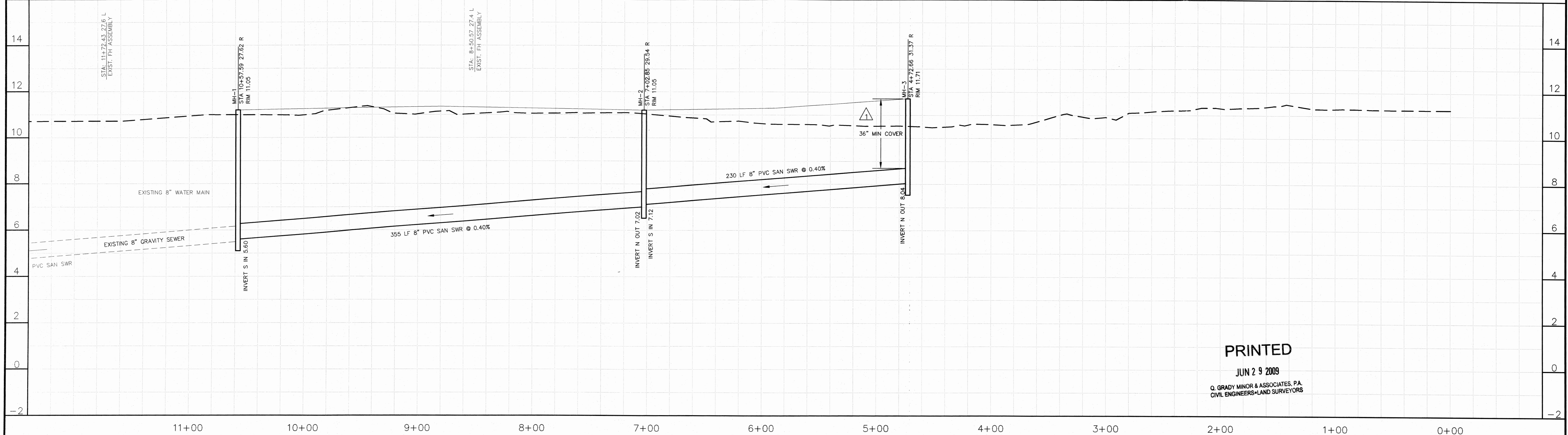
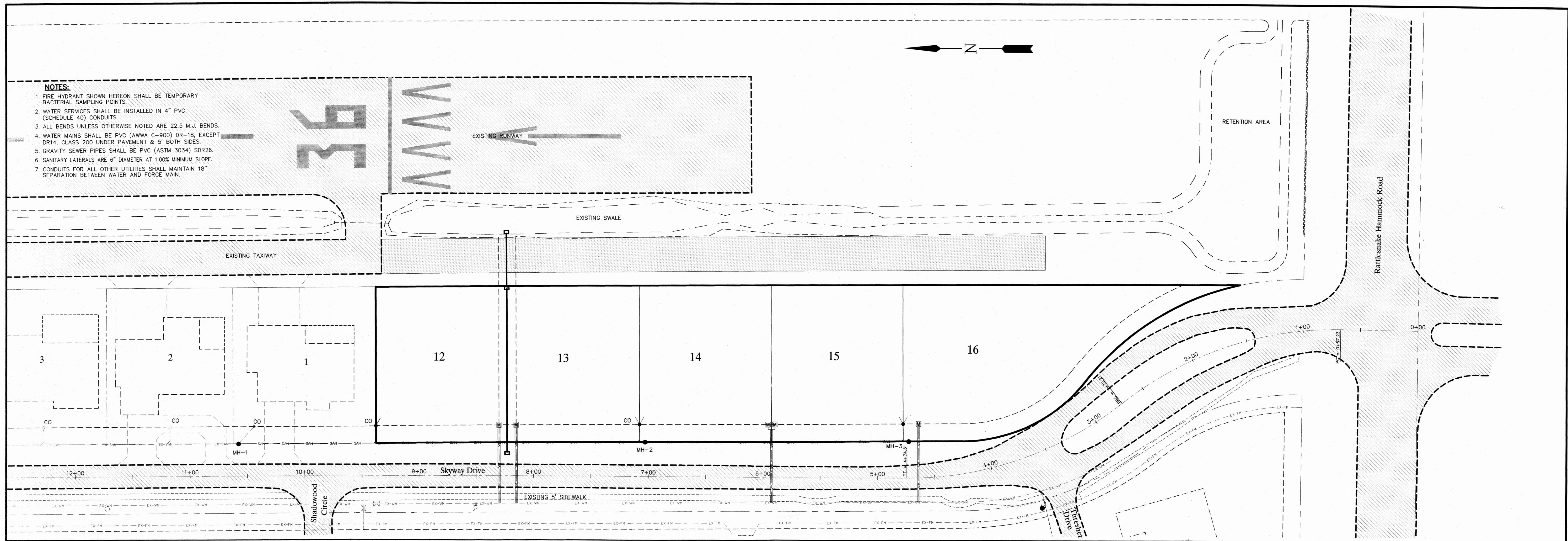
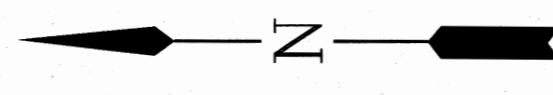
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**Wing South Airpark Extension**

Utility Plan

MUNICIPALITY:	Collier County
SEC./TOWNSHIP/RNG.	16/50S/26E
DATE:	October 2008
FILE NAME:	WS SITE
SHEET	7 OF 12

- NOTES:**
1. FIRE HYDRANT SHOWN HEREON SHALL BE TEMPORARY BACTERIAL SAMPLING POINTS.
  2. WATER SERVICES SHALL BE INSTALLED IN 4" PVC (SCHEDULE 40) CONDUITS.
  3. ALL BENDS UNLESS OTHERWISE NOTED ARE 22.5 M.J. BENDS.
  4. WATER MAINS SHALL BE PVC (AWWA C-900) DR-18, EXCEPT DR14, CLASS 200 UNDER PAVEMENT & 5' BOTH SIDES.
  5. GRAVITY SEWER PIPES SHALL BE PVC (ASTM 3034) SDR26.
  6. SANITARY LATERALS ARE 6" DIAMETER AT 1.00% MINIMUM SLOPE.
  7. CONDUITS FOR ALL OTHER UTILITIES SHALL MAINTAIN 18" SEPARATION BETWEEN WATER AND FORCE MAIN.



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 CIVIL ENGINEERS-LAND SURVEYORS

**LEGEND**

	WATER METER	10	LOT NUMBER
	EXIST. FIRE HYDRANT ASSEMBLY		SANITARY LATERAL W/CLEANOUT
	EXIST. VALVE		EXIST. WATER MAIN
	MANHOLE		SANITARY SEWER
	MITERED END		EXIST. FORCE MAIN

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

**DESIGNED BY:** M.J.D.  
**DRAWN BY:** GS.  
**APPROVED:** M.J.D.  
**JOB CODE:** WSI  
**SCALE:** 1" = 40'

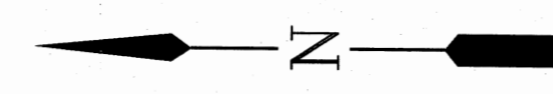
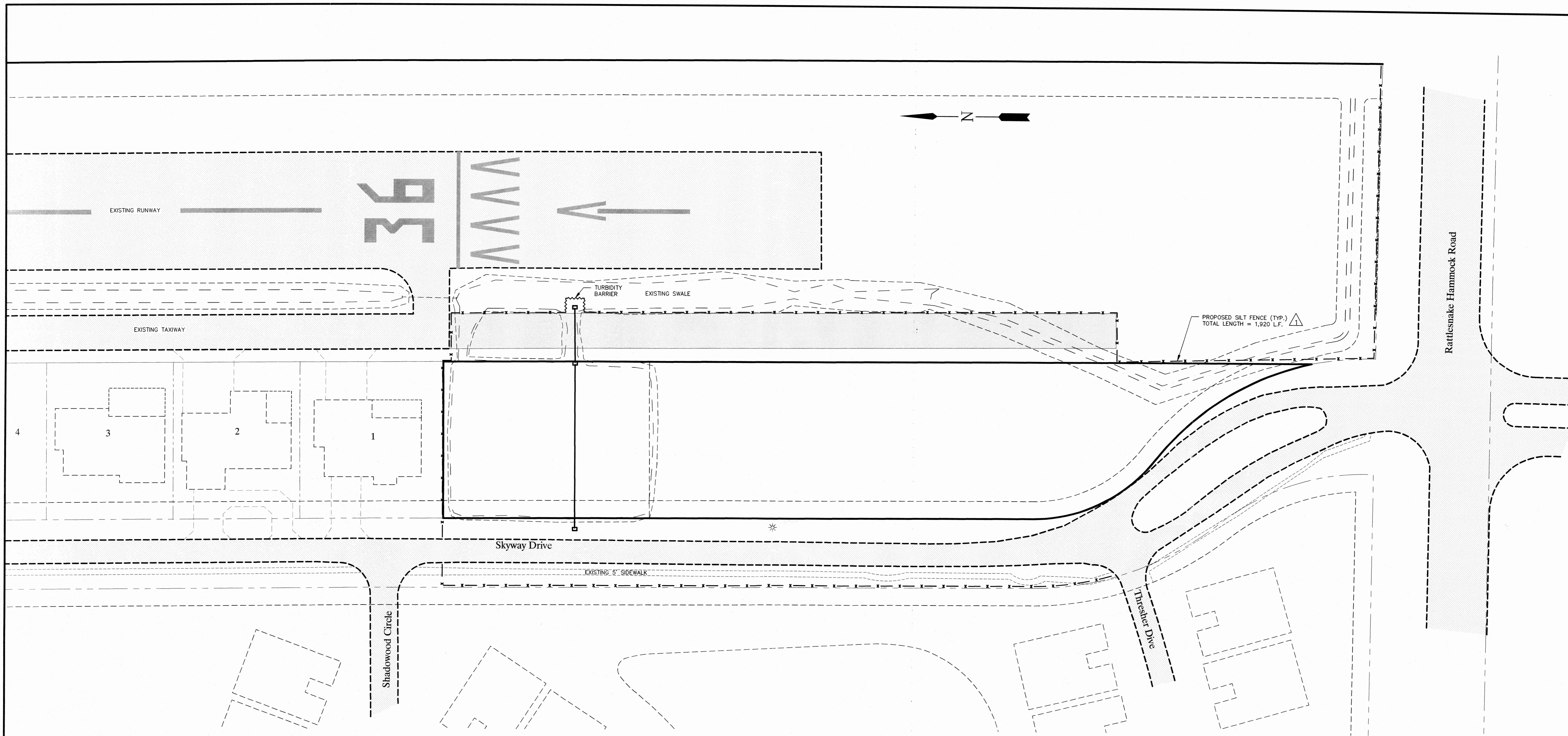
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 BONITA SPRINGS (239) 947-1144    FORT MYERS (239) 690-4380    NORTH PORT (941) 426-5858  
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*Wing South Airpark Extension*

**Plan and Profile**

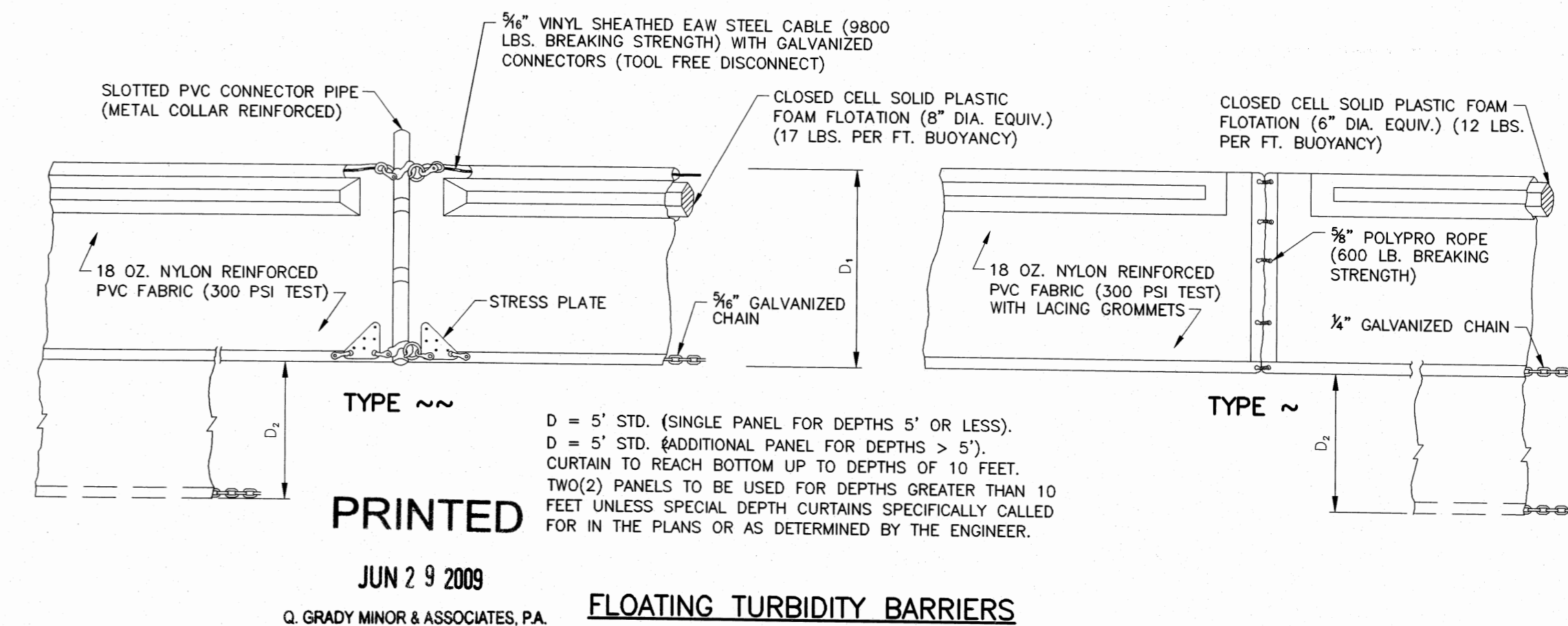
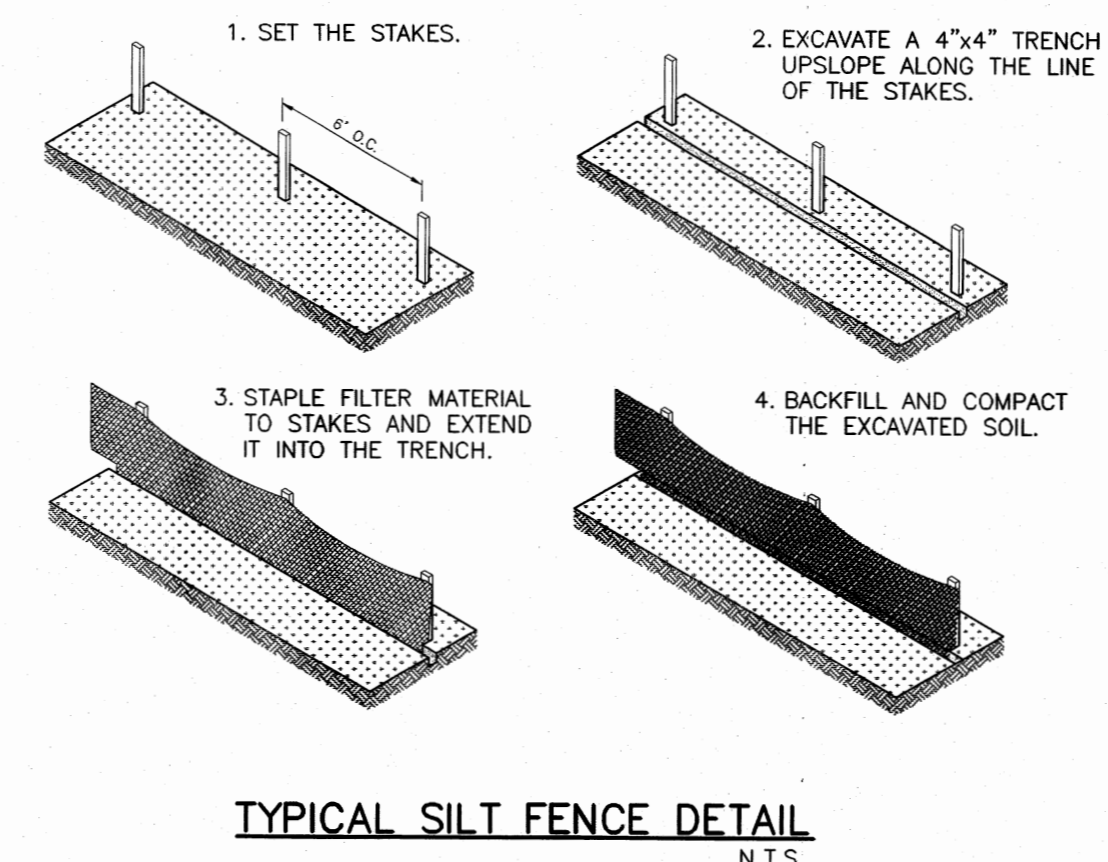
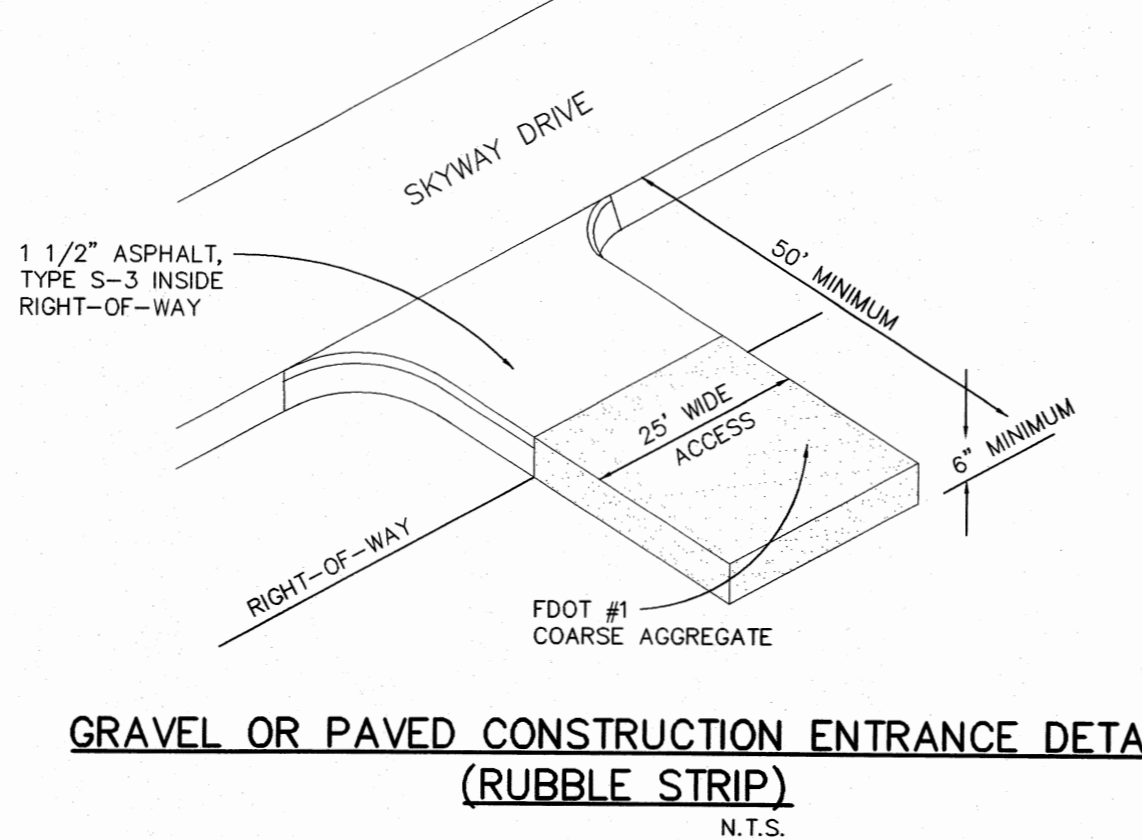
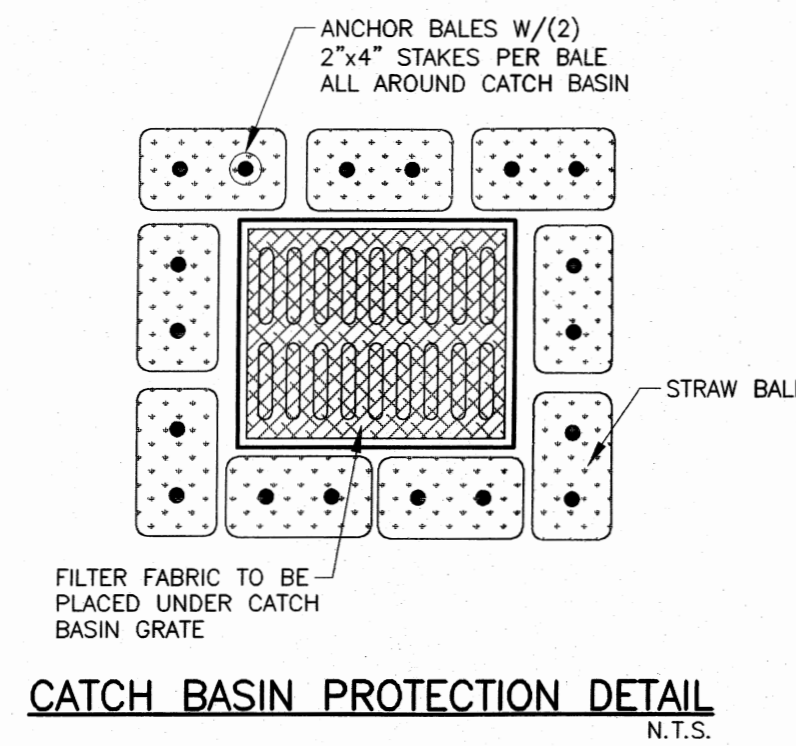
MUNICIPALITY: Collier County
SEC./TOWNSHIP/RNG: 16/505/26E
DATE: October 2008
FILE NAME: WS SITE
MICHAEL J. DELATE, P.E. Q. GRADY MINOR & ASSOC., P.A. 3800 VIA DEL REY BONITA SPRINGS, FL 34134 FLORIDA P.E. LICENSE NO. 49442 EB/LB 0005151
SHEET 8 OF 12





**NOTES:**

- 1) CONTRACTOR TO DEMOLISH AND REMOVE ALL IMPROVEMENTS WITHIN LIMITS OF DEMOLITION SHOWN UNLESS OTHERWISE NOTED.
- 2) CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
- 3) THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLITION DEBRIS OFF OWNERS' PROPERTY.
- 5) THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE.
- 6) THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT AND ARE NOT IDENTIFIED TO BE REMOVED.
- 7) REMOVAL OF ASBESTOS CONTAINING MATERIALS (IF ANY) SHALL BE IN ACCORDANCE WITH THE REGULATORY STANDARDS.



**LEGEND**

--- SILT FENCE

DESIGNED BY:	M.J.D.		
DRAWN BY:	GS		
APPROVED:	M.J.D.		
JOB CODE:	WS1		
SCALE:	1" = 40'		
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.
Revision	Date	Description	By

**Q. GRADY MINOR & ASSOCIATES, P.A.**  
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*Wing South Airpark Extension*

**Erosion Control Plan and Details**

MUNICIPALITY:  
Collier County

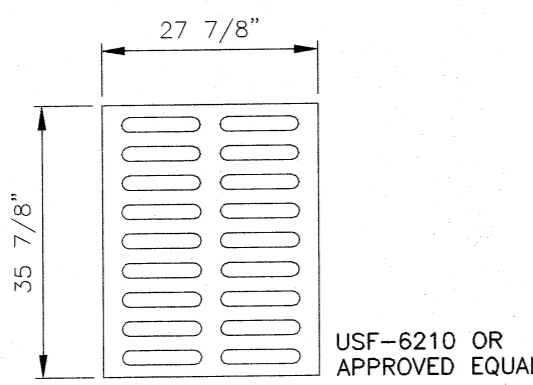
SBC/TWNSHP/RNG:  
16/505/26E

DATE:  
October 2008

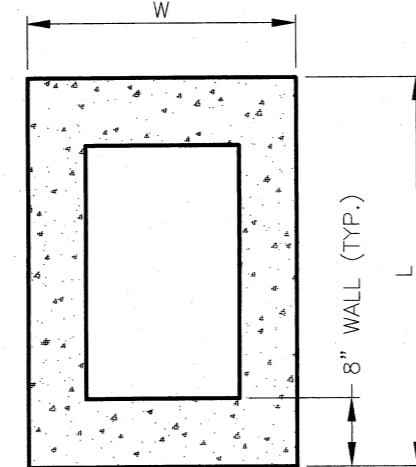
FILE NAME:  
WS SITE

MICHAEL J. DELATE, P.E.  
Q. GRADY MINOR & ASSOC., P.A.  
3800 VIA DEL REY  
BONITA SPRINGS, FL 34134  
FLORIDA P.E. LICENSE NO. 49442  
EB/LB 000515

SHEET 9 OF 12



GRATE

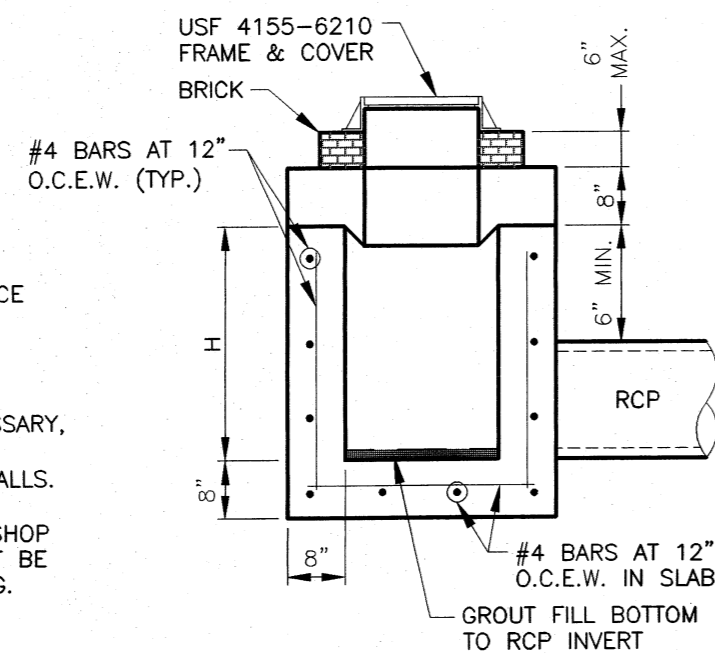


PLAN VIEW

BASIN DIMENSIONS			
TYPE	L	W	H
C	4.33	3.33	VARIES
E	5.83	4.33	VARIES
A	4.33	4.33	VARIES

NOTES:

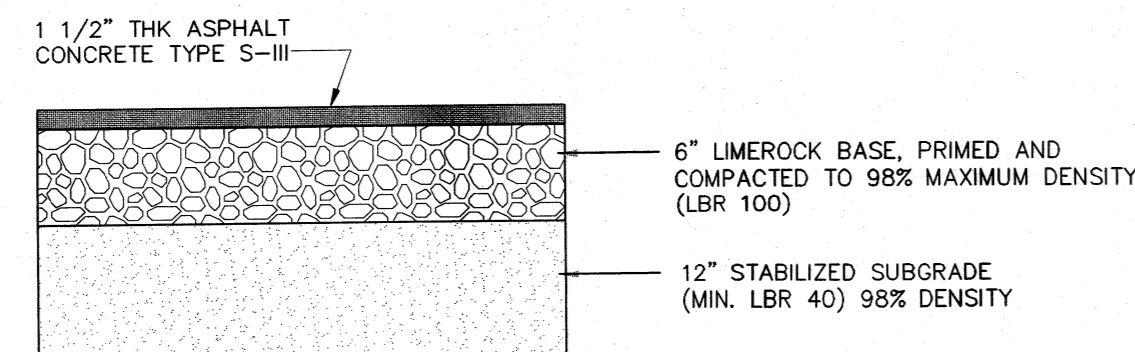
1. ALL CATCH BASINS TO BE POURED IN PLACE OR PRECAST.
2. ALL CONCRETE TO BE 4,000 PSI.
3. WHERE TOP SLAB CONSTRUCTION IS NECESSARY, USE 8" THICK SLAB W/#4 BARS AT 4" ON CENTER CONTINUOUS INTO CATCH BASIN WALLS.
4. WHERE "H" DIMENSION EXCEEDS 5 FEET, SHOP DRAWINGS FOR WALL REINFORCEMENT MUST BE SUBMITTED FOR APPROVAL BEFORE CASTING.



SECTION

CATCH BASIN DETAIL

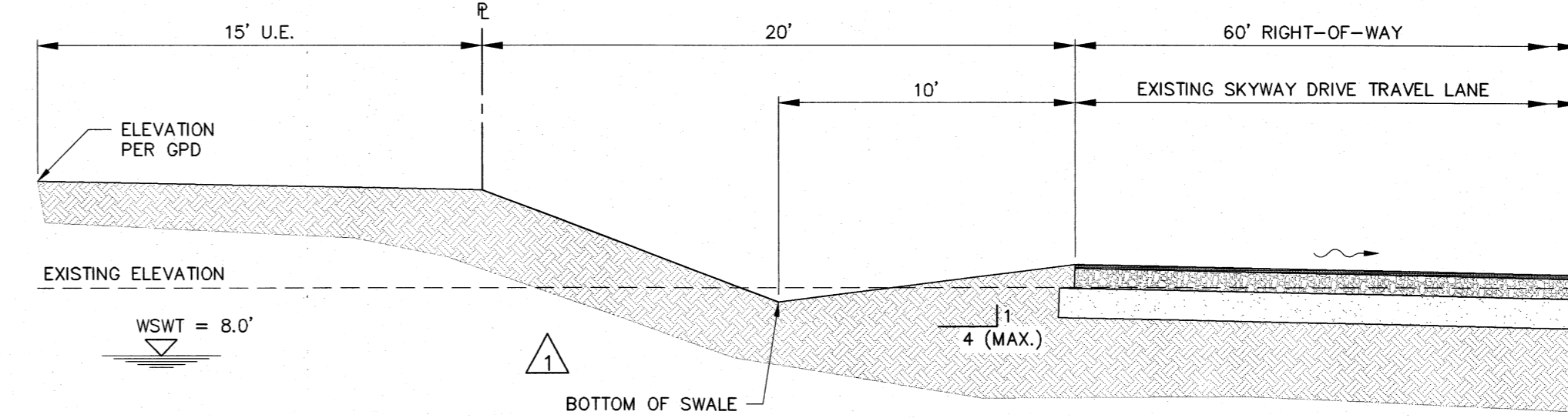
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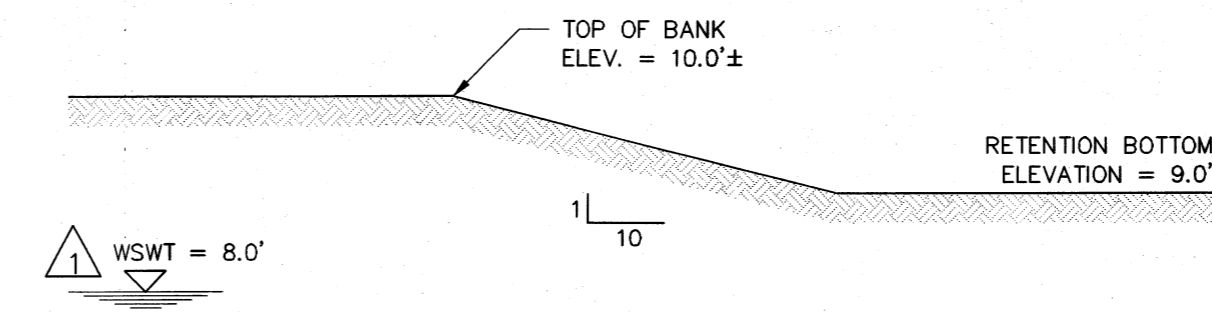
1. ASPHALTIC CONCRETE PAVEMENT (TYPE S-III) SHALL BE CONSTRUCTED IN TWO 3/4" LIFTS. THE SECOND LIFT SHALL BE CONSTRUCTED AFTER SUBSTANTIAL COMPLETION OF BUILDING CONSTRUCTION.
2. 5 1/2" LIMEROCK BASE MATERIAL MAY BE SUBSTITUTED AS AN ALTERNATE DESIGN TO THE 12" STABILIZED SUBGRADE. ALL SPECIFICATIONS FOR LIMEROCK BASE MATERIAL SHALL BE ADHERED TO.
3. ALTERNATE PAVEMENT SECTIONS UTILIZING MATERIALS INCLUDING PAVER BLOCKS AND BOMANITE MAY BE SUBSTITUTED FOR THE ABOVE SYSTEMS. STRUCTURAL CHARACTERISTICS MUST MEET MINIMUM COLLIER COUNTY L.D.C. REQUIREMENTS.
4. LIMEROCK BASE MUST EXTEND 6" BEYOND EDGE OF PAVEMENT.
5. SUBGRADE MUST EXTEND 12" BEYOND EDGE OF PAVEMENT.

TYPICAL ASPHALT SECTION

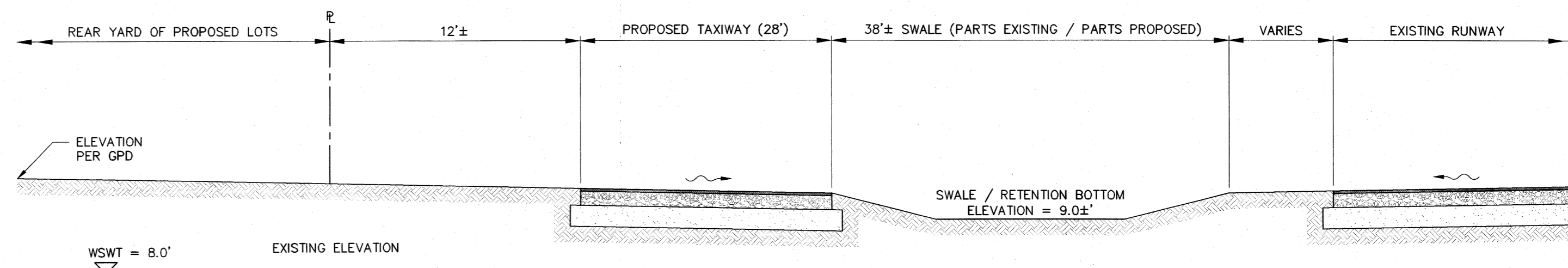
NTS



SECTION A AT SKYWAY DRIVE 6 | 10



SECTION B AT RETENTION AREA 6 | 10



SECTION C REAR Y AT TAXIWAY 6 | 10

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CIVIL ENGINEERS-LAND SURVEYORS

LEGEND

Revision	Date	Description	By
1	03/24/09	REVISED PER COLLIER COUNTY COMMENTS	J.S.V.

DESIGNED BY:	M.J.D.
DRAWN BY:	GS
APPROVED:	M.J.D.
JOB CODE:	WS1
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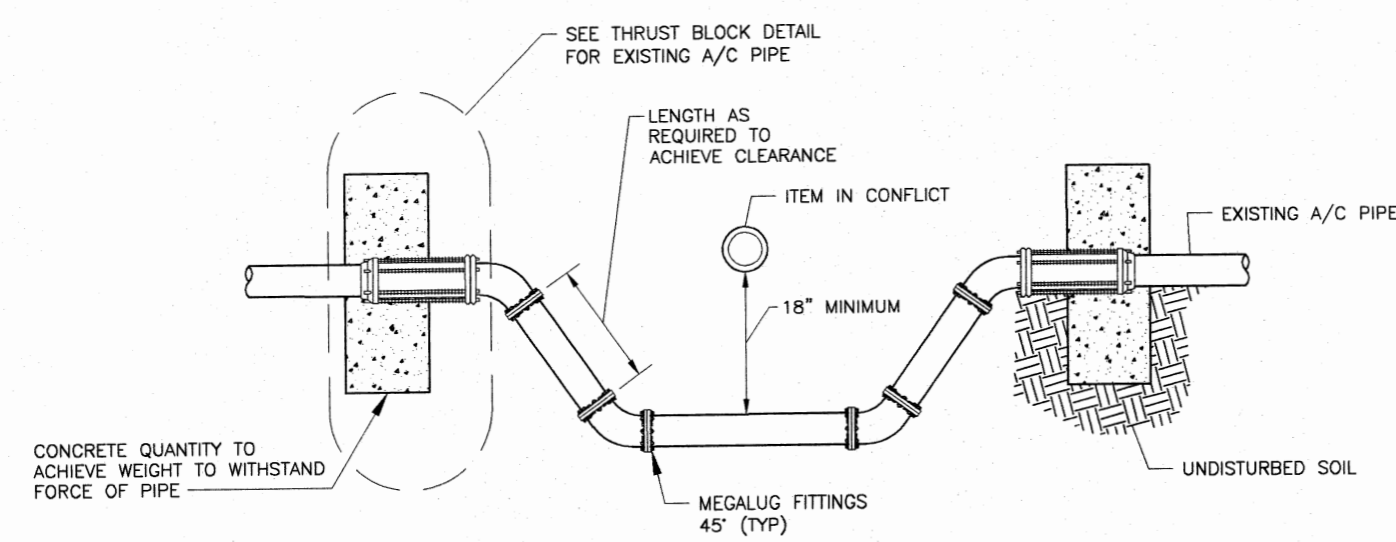
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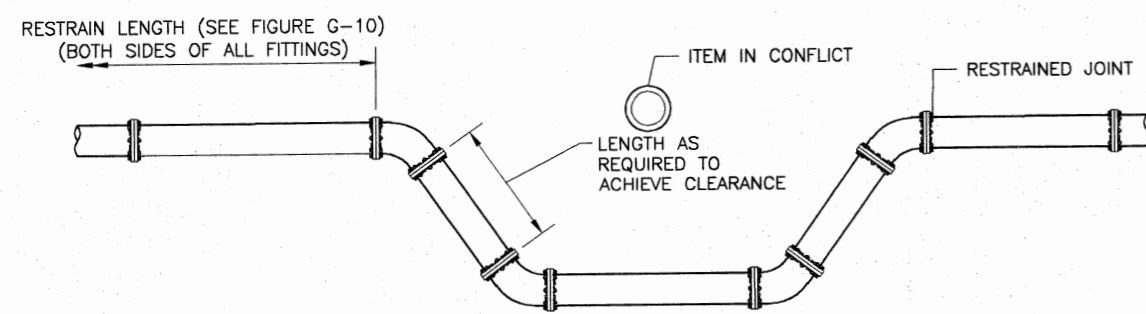
Wing South Airpark Extension

Grading, Paving and Drainage  
Details and Sections

MUNICIPALITY:	Collier County
SEC./TWNHP/RNG:	16/50S/26E
DATE:	October 2008
FILE NAME:	WS SITE
DESIGNER:	MICHAEL J. DELATE, P.E. Q. GRADY MINOR & ASSOC., P.A. 3800 VIA DEL REY BONITA SPRINGS, FL 34134 FLORIDA P.E. LICENSE NO. 49442 EB/LB 0005151



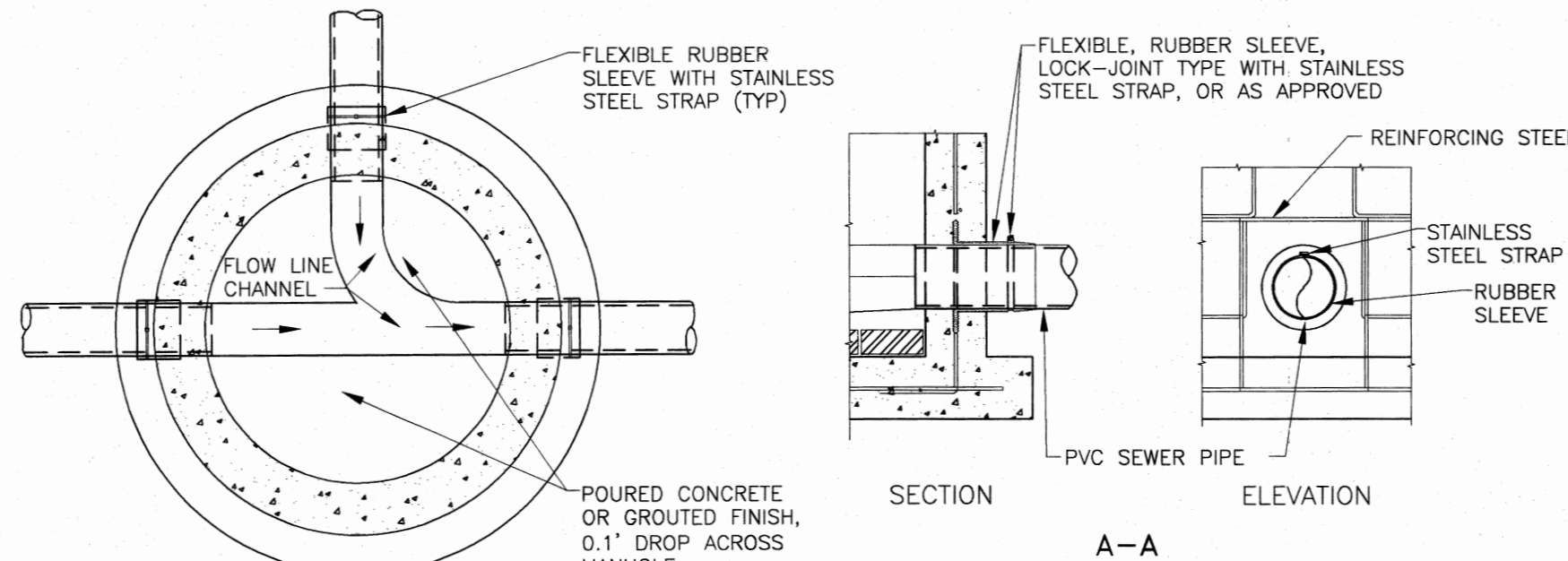
EXISTING A/C PIPE - HEADWALL



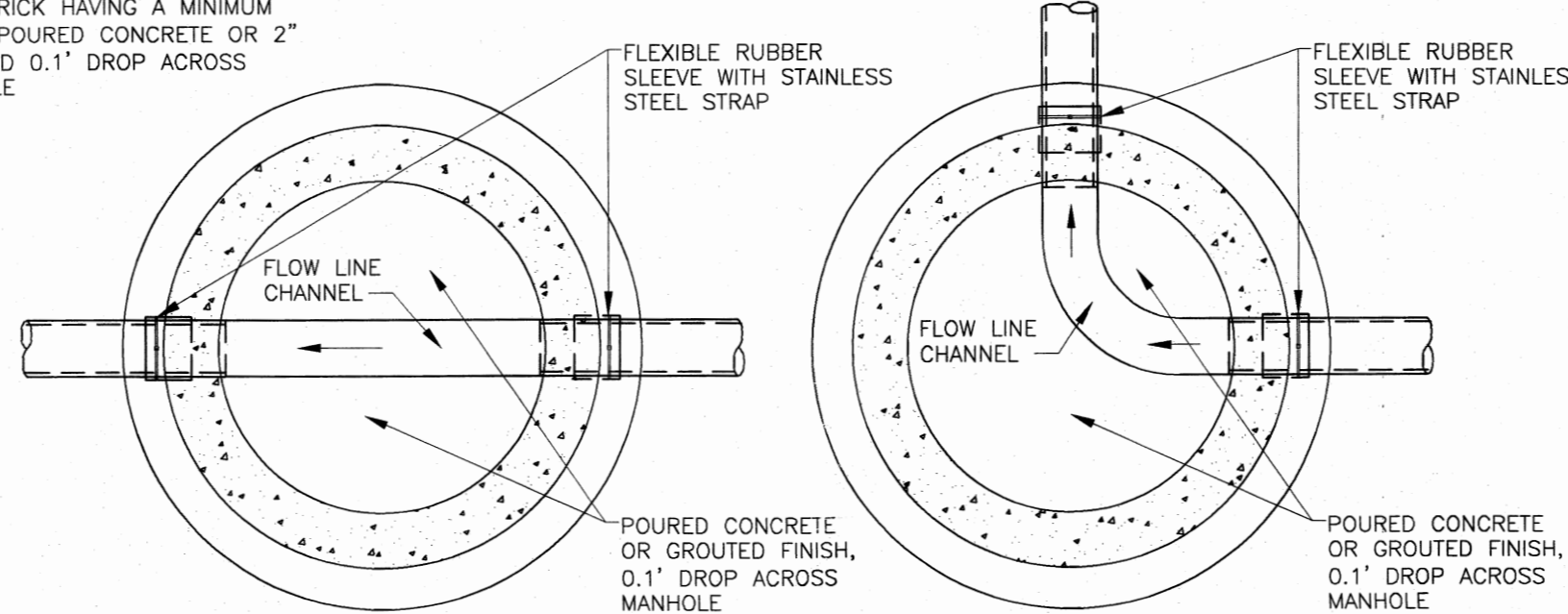
NEW & EXISTING PIPE - RESTRAINED JOINT

NOTES:  
1. SEE SECTION 1 - DESIGN CRITERIA FOR AIR RELEASE VALVE REQUIREMENTS.

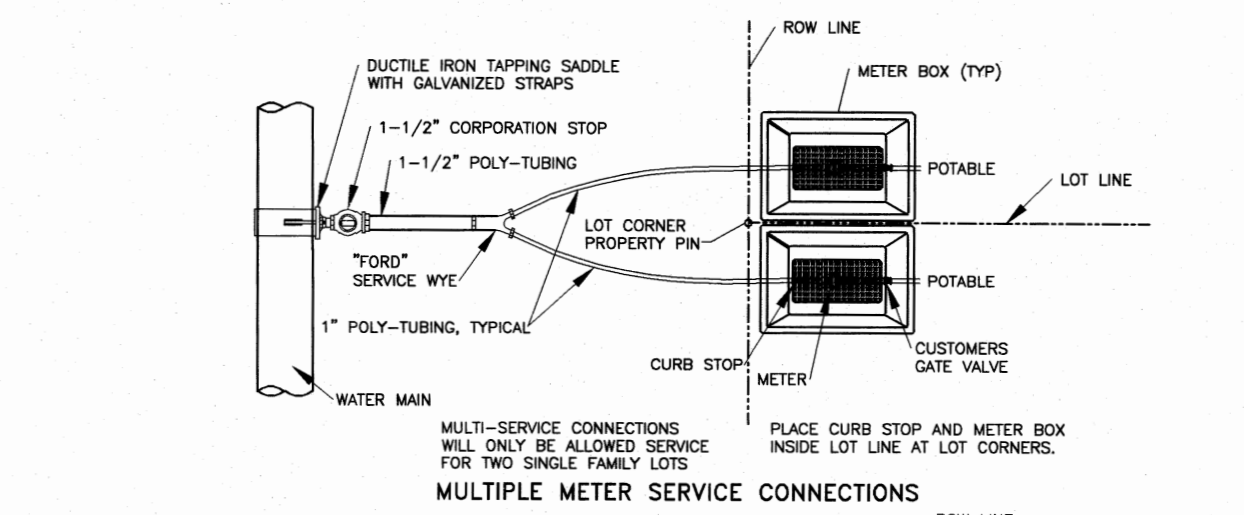
PIPE CONFLICT DETAILS



FLOW LINE CHANNELS SHALL BE CLAY BRICK HAVING A MINIMUM OF 2" POURED CONCRETE OR 2" GROUTED 0.1" DROP ACROSS MANHOLE



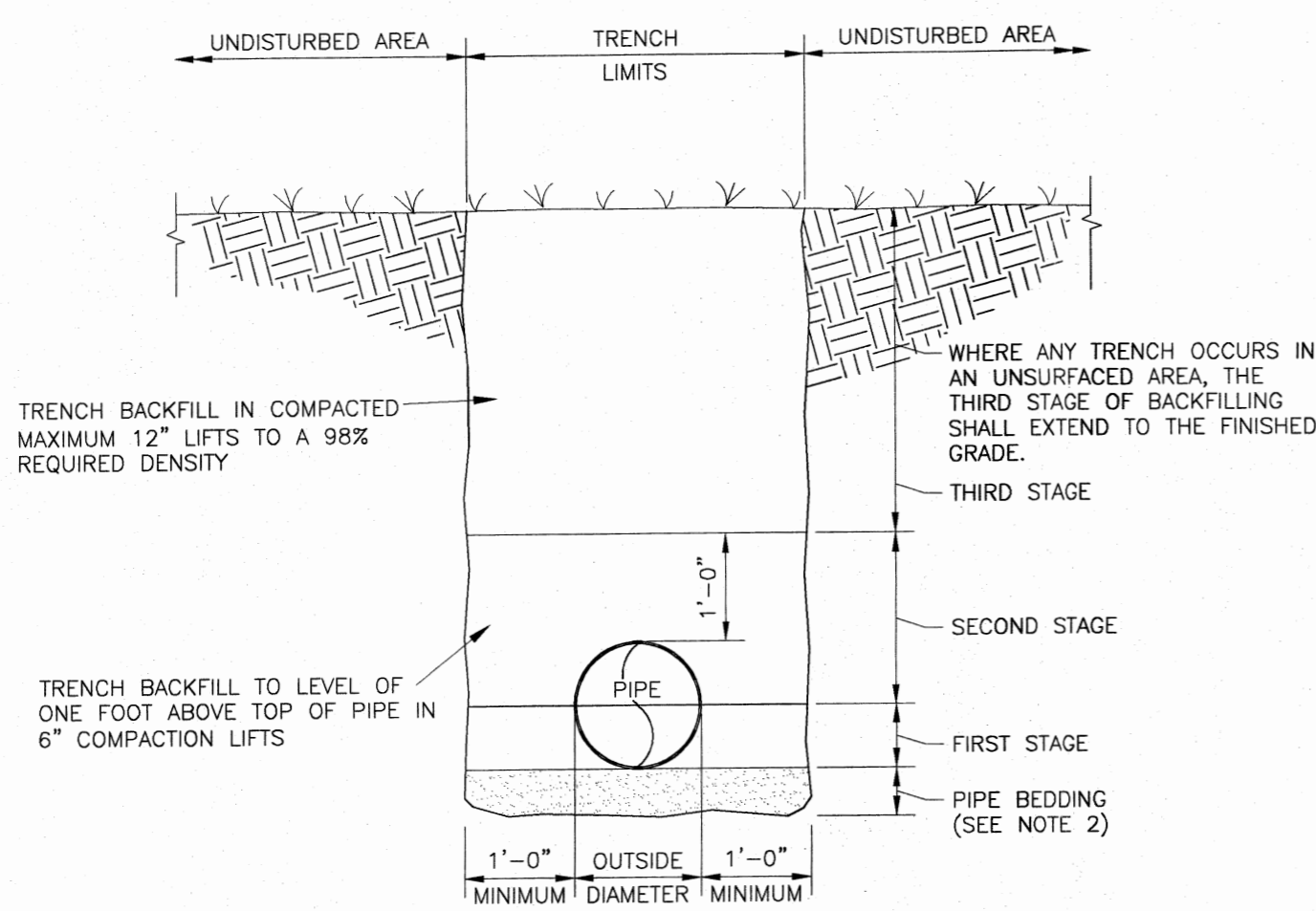
TYPICAL FLOW LINE CHANNELS DETAIL



NOTES:

- "FORD" CONNECTIONS Y-44-264 OR COUNTY APPROVED EQUAL SHALL BE USED FOR ALL SERVICE CONNECTIONS INTO WATER MAIN. SUCCESSIVE TAPS INTO WATER MAIN SHALL BE NO CLOSER THAN 24" APART.
- ALL CASING PIPE SHALL EXTEND A MINIMUM OF 3' BEYOND THE EDGE OF PAVEMENT, WITH A CASING DIAMETER TO BE NO LESS THAN 4". CONDUIT SHALL BE MARKED WITH A 3M MAGNETIC MARKER.
- TAPPING SADDLE CORPORATION STOP POLY TUBING, CURB STOP AND METER BOXES SHALL BE INSTALLED BY UNDERGROUND UTILITY CONTRACTOR AT THE TIME OF IRRIGATION MAIN INSTALLATION.
- MATERIAL SPECIFICATIONS:
  - TAPPING SADDLES SHALL BE DUCTILE IRON DOUBLE STRAP OR BRASS DOUBLE STRAP AS MANUFACTURED BY FORD F202 OR 202B OR COUNTY APPROVED EQUAL. MINIMUM SADDLE SIZE 1-1/2".
  - CORPORATION STOPS SHALL BE BALL TYPE AND MADE OF RED BRASS. OUTLET SHALL BE COMPRESSION TYPE FOR POLYETHYLENE TUBING. CURB STOP SHALL BE AS MANUFACTURED BY FORD FB 1100-B OR COUNTY APPROVED EQUAL. COMPRESSION ASSET SHALL BE STAINLESS STEEL.
  - CURB STOPS SHALL BE BALL TYPE AND MADE OF RED BRASS. INLET SHALL BE COMPRESSION JOINT. OUTLET SHALL BE SWIVEL NUT FOR METER CONNECTION. CURB STOP SHALL BE AS MANUFACTURED BY FORD B 43-342 W/ COUNTY APPROVED EQUAL.
  - TUBING SHALL BE POLYETHYLENE, PE340B, (AWWA C-901, SDS 9-2003) AND BLUE IN COLOR; SIZES SHALL BE 1-1/2" UP TO WYE AND 1" AFTER WYE FOR LONG AND SHORT SIDE SERVICES.
  - METER BOXES:
    - 3/4" TO 1" METERS SHALL BE ALLIANCE 12" AUTOMATIC METER READER (AMR) BOX (16MR SERIES) OR COUNTY APPROVED EQUAL. CAST IRON READ LOG 1-1/2" TO 2" METERS SHALL BE ALLIANCE 12" AUTOMATIC METER READER BOX (16MR SERIES) OR COUNTY APPROVED EQUAL. CAST IRON READ LOG.
    - POLYETHYLENE PIPE (PE) SHALL MEET THE REQUIREMENTS OF AWWA C-901.
  - ALL PLANTINGS SHALL BE A MINIMUM 3' FROM METER BOX.

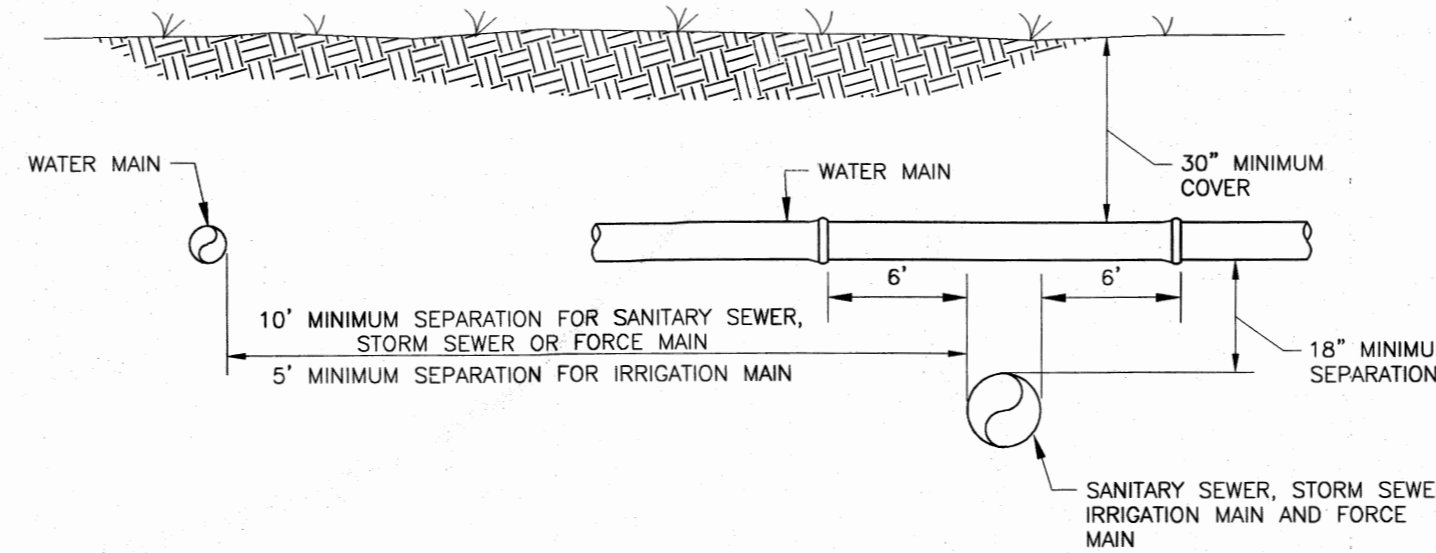
TYPICAL SHORT AND LONG SIDE WATER SERVICE METER SETTING DETAIL FOR CONNECTION TO WATER MAIN



NOTES:

- BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. BACKFILL MATERIAL SHALL CONSIST OF EARTH, LOAM, SANDY CLAY, GRAVEL, CRUSHED LIMESTONE, OR OTHER APPROVED MATERIAL. REFER TO TECHNICAL SPECIFICATIONS FOR DETAIL REQUIREMENTS.
- IF TRENCH BOTTOM CONTAINS ROCK, THEN A MINIMUM OF A 6" PIPE BEDDING SHALL BE USED.

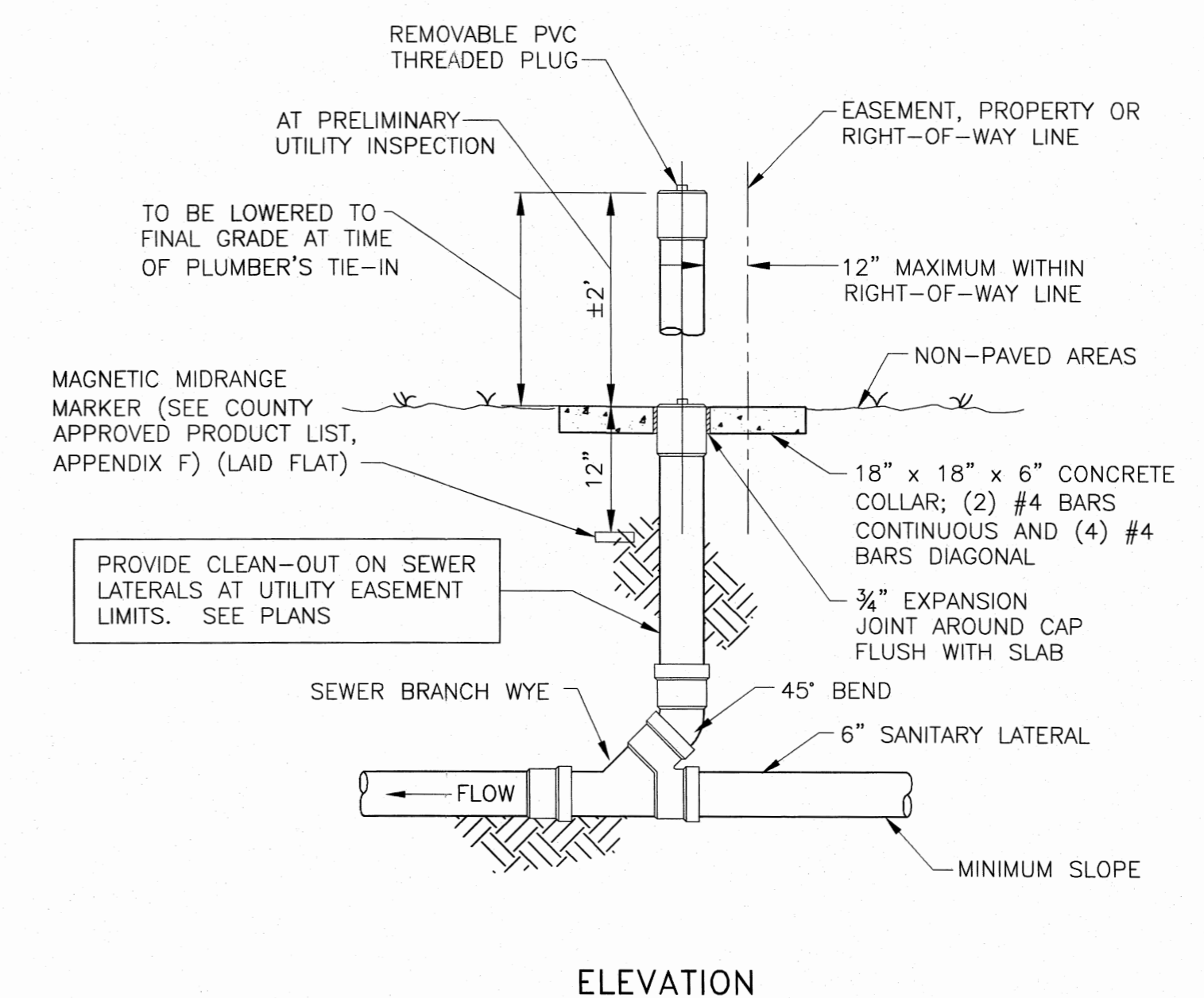
UNPAVED AREA TRENCH BACKFILL DETAIL



NOTES:

- WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER, NON-POTABLE IRRIGATION MAINS, AND FORCE MAINS BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18 INCHES MEASURED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE 18 INCHES MINIMUM VERTICAL SEPARATION DISTANCE DOES NOT APPLY TO SEPARATIONS OF SEWER LATERALS AND POTABLE WATER MAIN PIPELINE INSTALLATIONS. ALSO, WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER AND FORCE MAINS BY 10 FEET AND FROM IRRIGATION MAINS BY 5 FEET MEASURED HORIZONTALLY BETWEEN OUTSIDE OF PIPES.
- ALL CROSSINGS WITH VERTICAL CLEARANCE LESS THAN 18 INCHES SHALL REQUIRE SUBMISSION AND APPROVAL OF A DEVIATION. IF A DEVIATION IS SUBMITTED, THE FOLLOWING MINIMUM STIPULATIONS APPLY: THE CROSSING SHALL BE MADE USING THICKNESS CLASS 200 AWWA C-900 DR14, PVC (CLASS 235 AWWA C-905, DR 18, PVC FOR PIPES GREATER THAN 12" IN DIAMETER) OR DUCTILE IRON, PRESSURE CLASS 250 PIPE FOR A HORIZONTAL DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING. WATER MAIN CONCRETE ENCASEMENT SHALL ONLY BE MADE AFTER WRITTEN APPROVAL OF THE WATER DIRECTOR OR HIS DESIGNEE.
- 18 INCHES CLEAR DISTANCE SHALL NOT BE REDUCED IN CASES WHERE WATER CROSSES UNDER SEWER LINE.
- WATER MAINS, SANITARY SEWER, STORM SEWER, AND NON-POTABLE IRRIGATION MAINS SHALL BE IN SEPARATE TRENCHES.
- WATER MAINS CROSSING ANY TYPE OF SANITARY SEWER, INCLUDING FORCE MAIN, OR STORM SEWER SHALL HAVE THE ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610.
- 57 STONE SHALL BE UTILIZED FOR SEPARATION BETWEEN GRAVITY SANITARY SEWER LINES AND STORMWATER LINES.
- SEE SECTION 1- DESIGN CRITERIA, SUBSECTIONS 1.2.3 AND 1.3 FOR ADDITIONAL REQUIREMENTS.

PIPE SEPARATION DETAIL



SEWER CLEAN-OUT DETAIL NON PAVED AREAS

LEGEND

Revision	Date	Description	By

DESIGNED BY: M.J.D.  
 DRAWN BY: GS  
 APPROVED: M.J.D.  
 JOB CODE: WS1  
 SCALE: 1" = 40'

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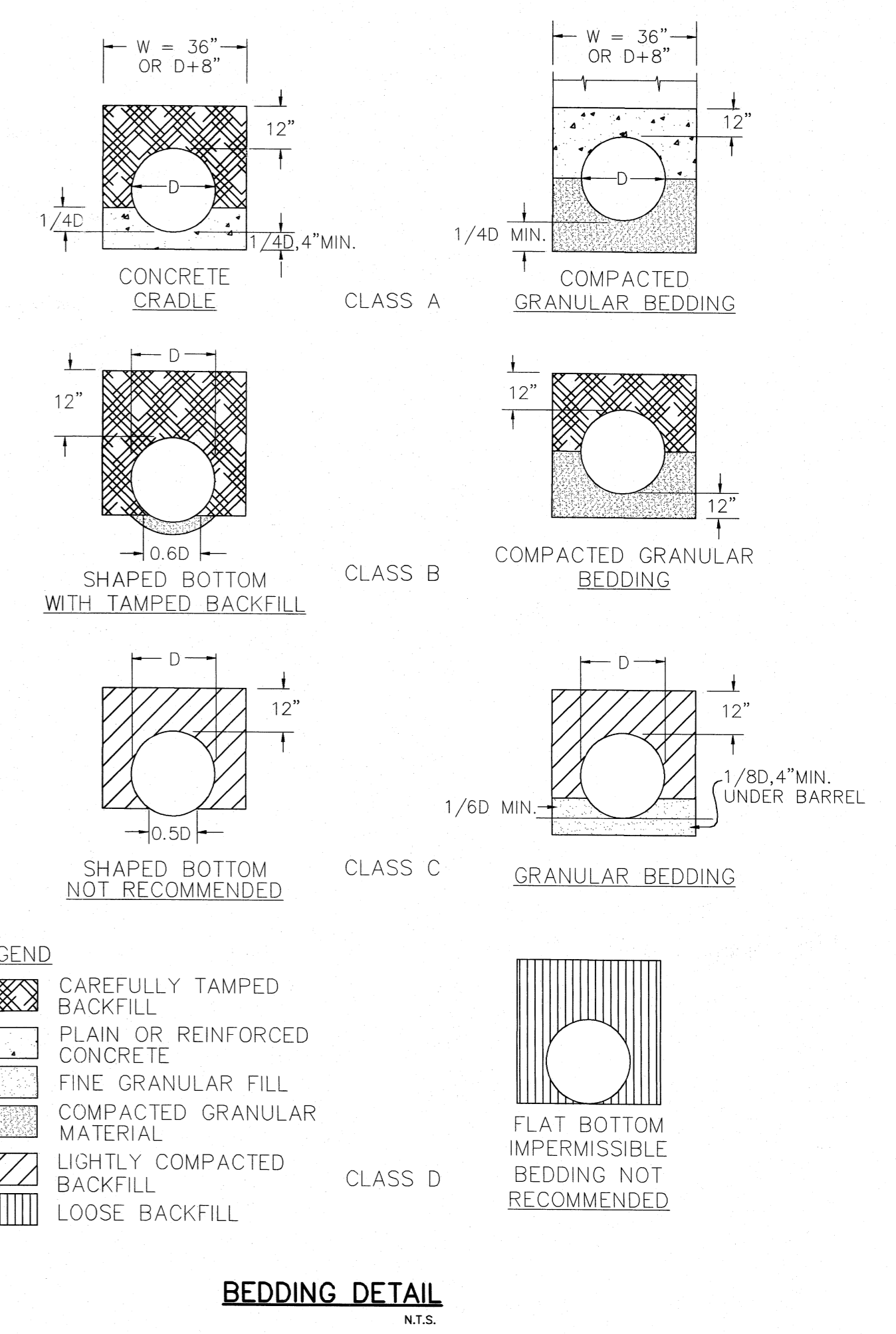
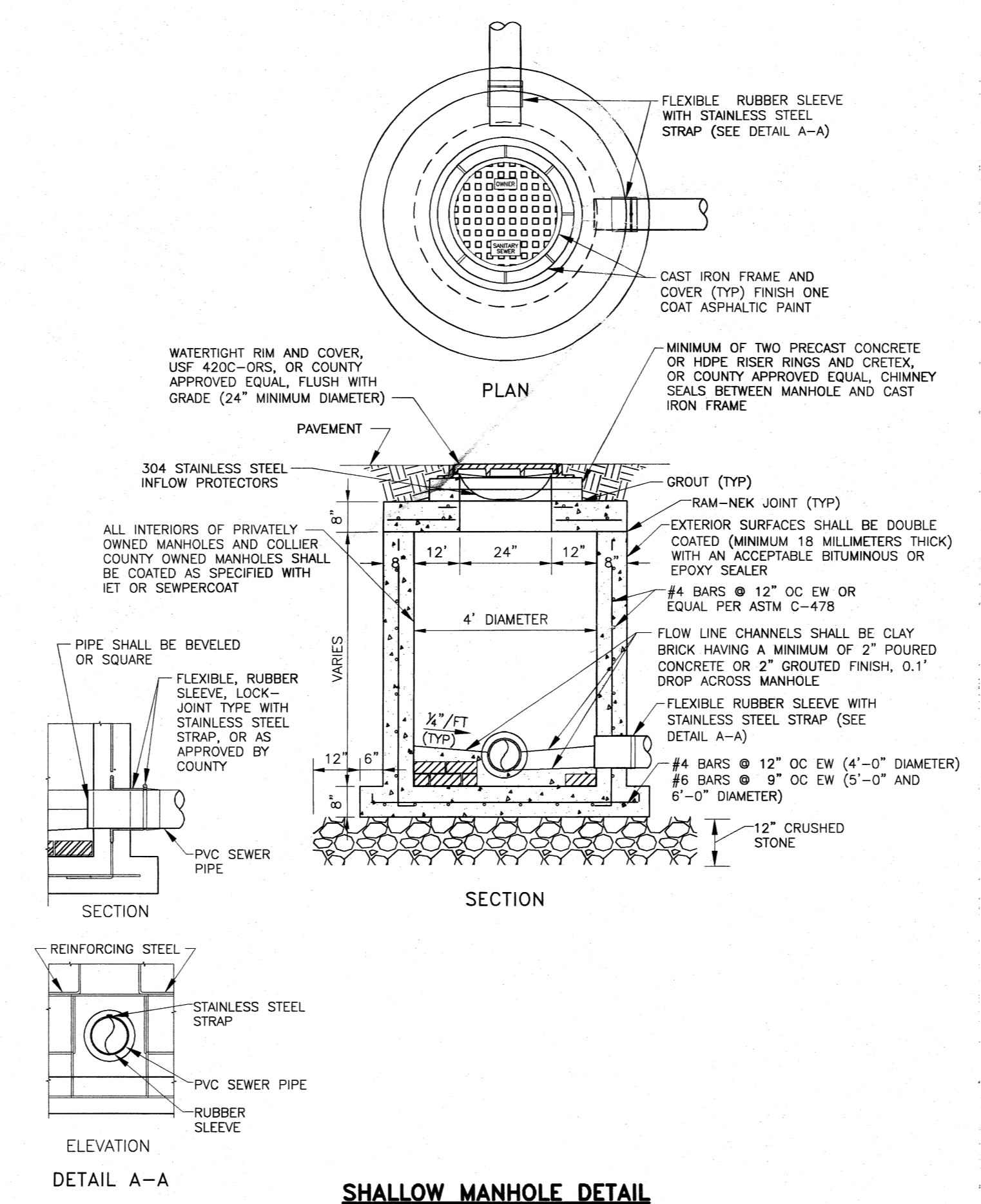
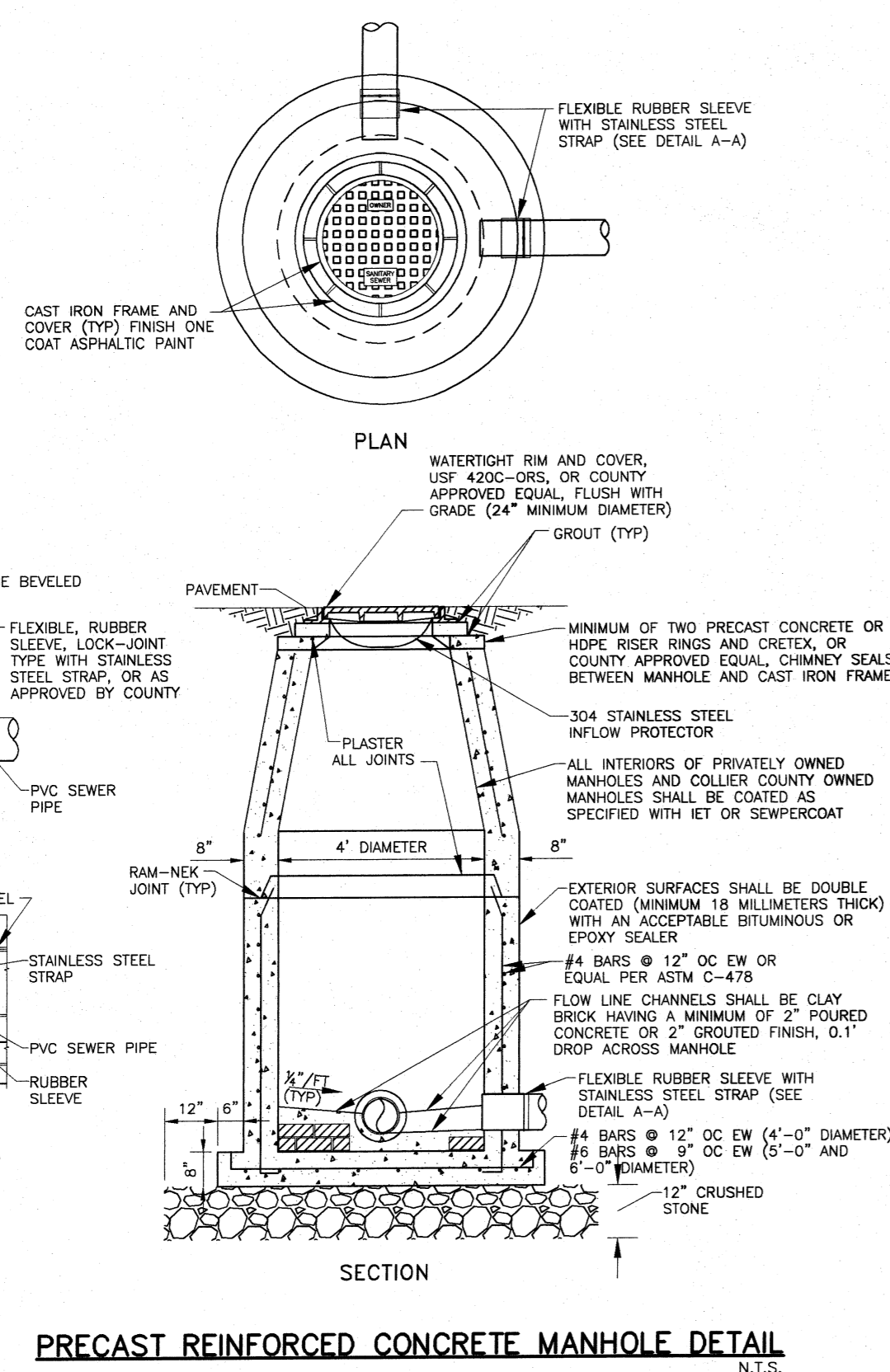
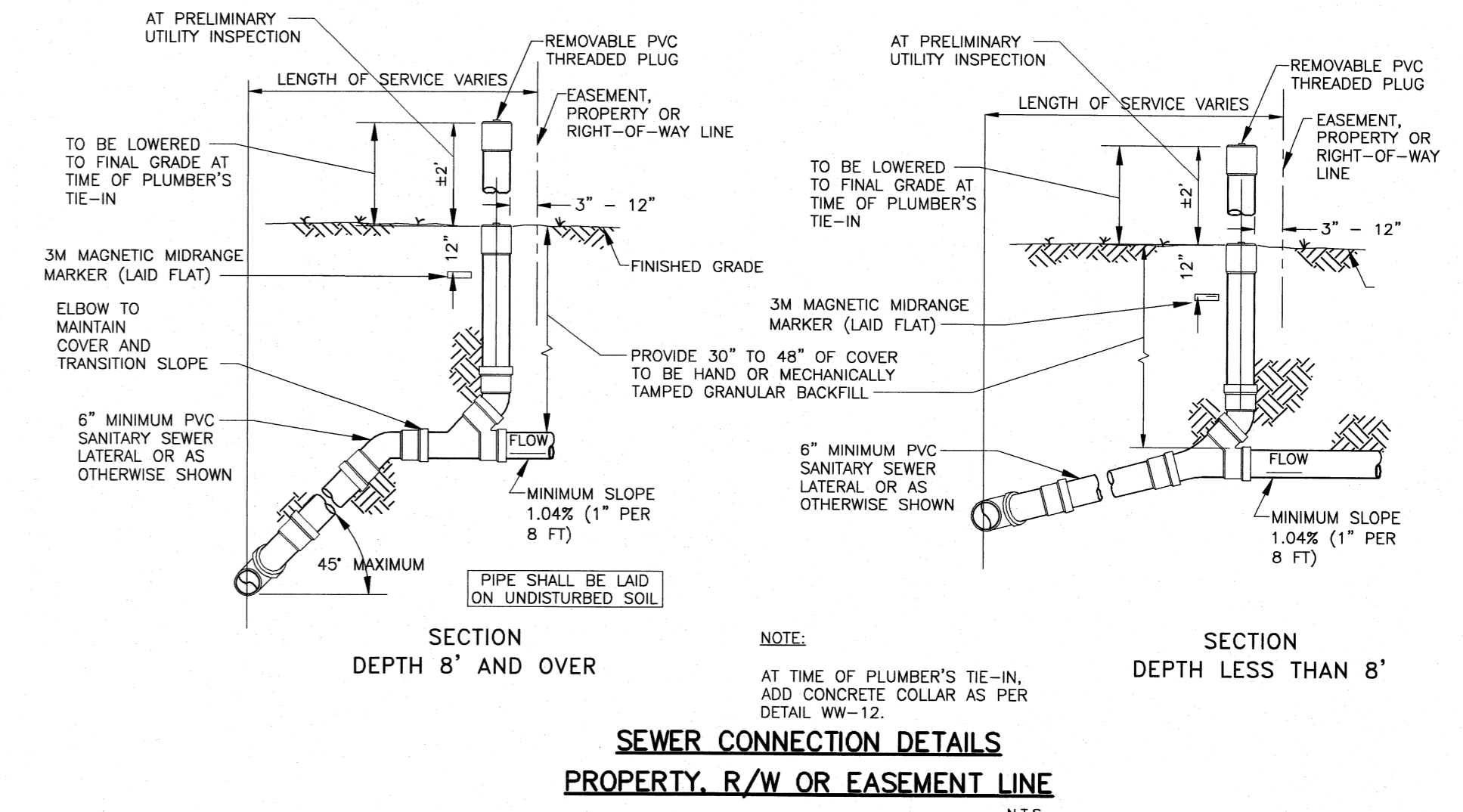
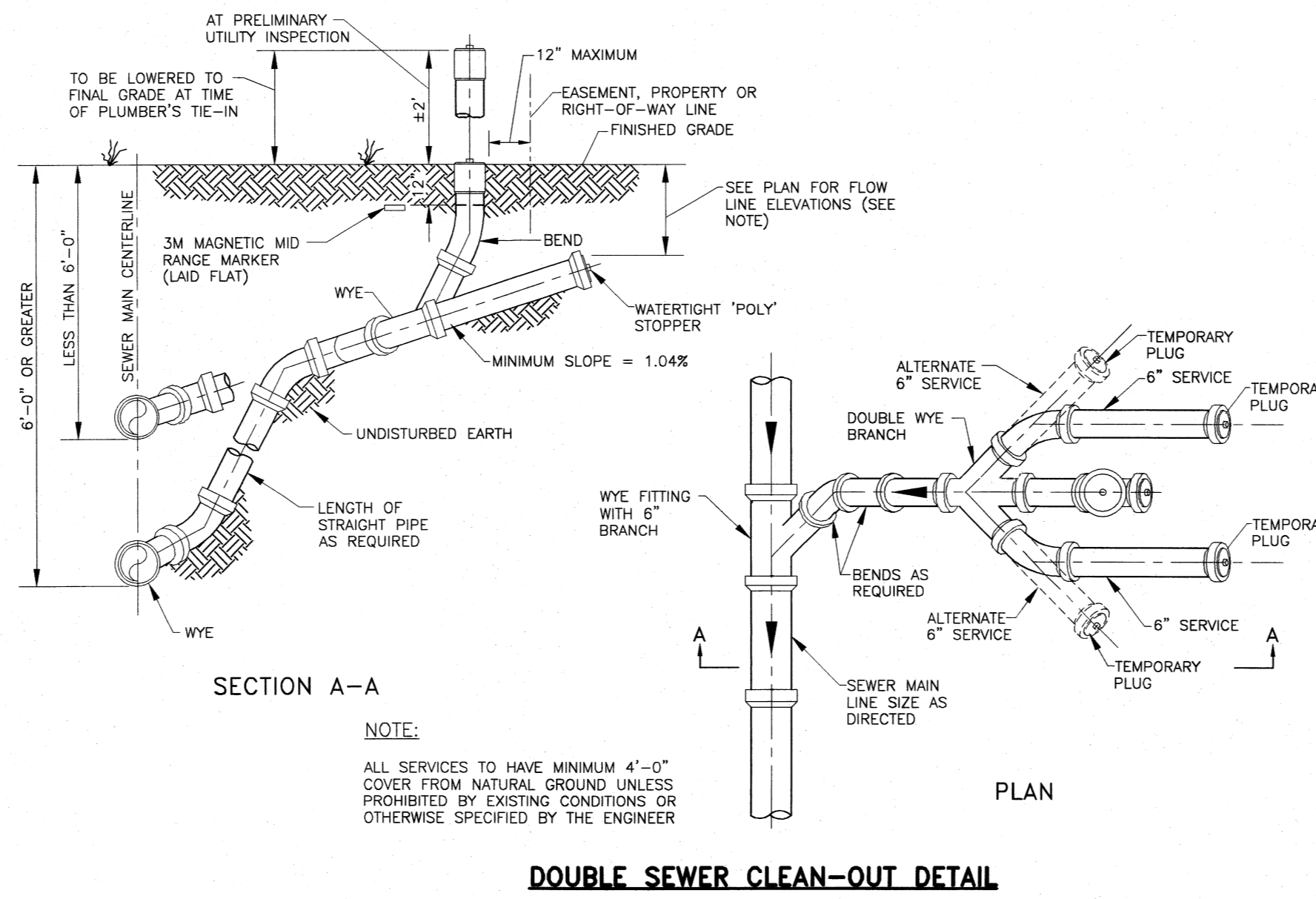
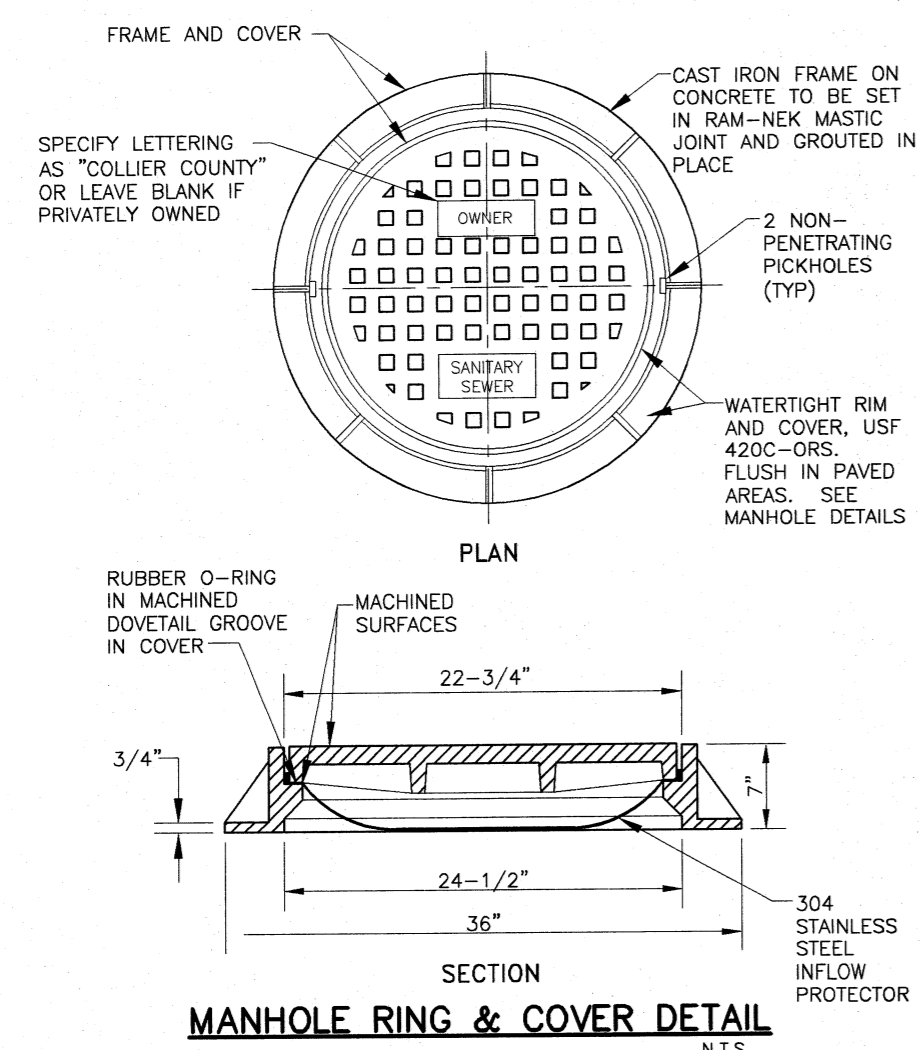
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 CIVIL ENGINEERS-LAND SURVEYORS

*Wing South Airpark Extension*

Water and Sewage Distribution System Details

MUNICIPALITY: Collier County  
 SEC./TOWNSHIP/RNG: 16/505/26E  
 DATE: October 2008  
 FILE NAME: WS SITE  
 SHEET 11 OF 12

MICHAEL J. DELATE, P.E.  
 Q. GRADY MINOR & ASSOC., P.A.  
 3800 VIA DEL REY  
 BONITA SPRINGS, FL 34134  
 FLORIDA P.E. LICENSE NO. 49442  
 EB/LB 0005151



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CIVIL ENGINEERS-LAND SURVEYORS

LEGEND

Revision	Date	Description

DESIGNED BY: MJD  
DRAWN BY: GS  
APPROVED: MJD  
JOB CODE: WS1  
SCALE: 1" = 40'

**Q. GRADY MINOR & ASSOCIATES, P.A.**  
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(239) 967-1164 (239) 690-4380 (941) 426-5858  
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*Wing South Airpark Extension*  
Sewage Collection System Details

MUNICIPALITY: Collier County  
SEC/TWNSHP/RNG: 16/505/28E  
DATE: October 2008  
FILE NAME: WS SITE  
MICHAEL J. DELATE, P.E.  
Q. GRADY MINOR & ASSOC., P.A.  
3800 VIA DEL REY  
BONITA SPRINGS, FL 34134  
FLORIDA P.E. LICENSE NO. 49442  
EB/LB 0005151  
SHEET 12 OF 12