

CONSTRUCTION PLANS FOR GRADING, DRAINAGE & UTILITIES

LOT 1B

MILLIKEN ADDITION

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

PW # 2006-004

REVISIONS	BY	DATE

LARRY BLILIE, P.E.
OLSON LAND DEVELOPMENT SERVICES
 999 CR 108
 WHITESBORO, TX 76273
 PH. 940.595.0528
 CONTACT: NATHAN OLSON

LOT 1B, MILLIKEN ADDITION
VICTOR MEYERS CUSTOM HOMES, LLC
 (OWNER LOT 1B) MICHAEL & RACHEL HARDIN

APPROVED FOR CONSTRUCTION
 Town of Addison
 Public Works Department
 91953
 APPROVED BY: CLAY BARNETT
 DATE: 1-13-2009

PROJECT MANAGER
 NJO

PROJECT TECHNICIAN
 NJO

JOB NUMBER
 2006.018

SHEET NUMBER
1.1

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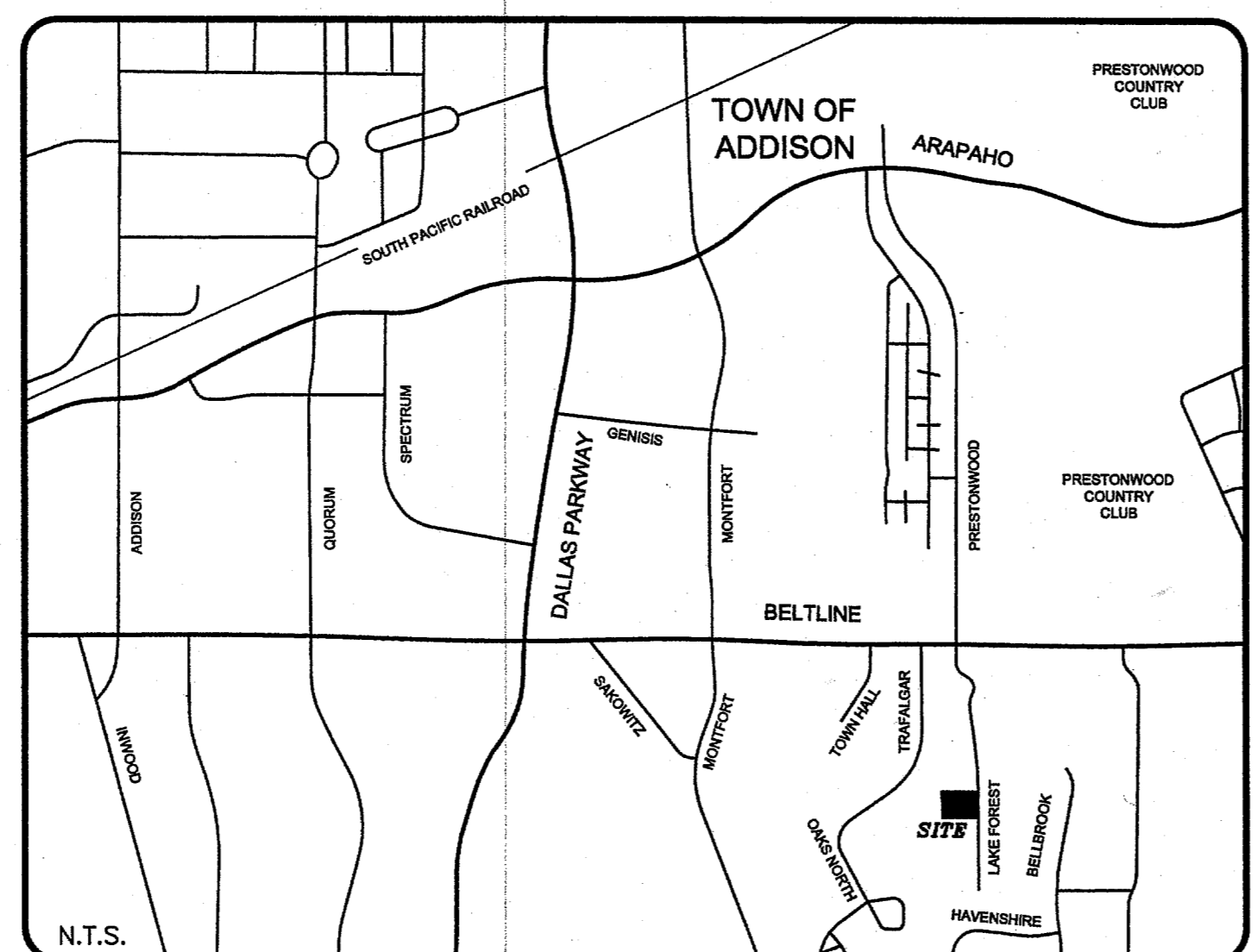
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OWNER:

VICTOR MEYERS CUSTOM HOMES, LLC
 (OWNER LOT 1B) MICHAEL & RACHEL HARDIN
 963 NOBLE CHAMPIONS WAY
 BARTONVILLE, TEXAS 76226

ENGINEER:

LARRY BLILIE P.E.
 OLSON LAND DEVELOPMENT SERVICES
 999 CR 108
 WHITESBORO, TX 76273
 CONTACT: NATHAN OLSON 940.595.0528



VICINITY MAP

NOTICE TO CONTRACTOR:

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING OR EXCAVATION AND IS REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL THE FRANCHISE UTILITY COMPANIES, CITY UTILITY DEPARTMENTS AND DIGTESS FOR LOCATES PRIOR TO CONSTRUCTION.
2. THE DEVELOPER AND CONTRACTOR SHALL COMPLY WITH ALL ACCEPTANCE PROCEDURES AND PROCESSES IDENTIFIED AT THE PRE-CONSTRUCTION MEETING.
3. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE CITY, STATE, AND FEDERAL PERMITS.
4. FLOOD PLAIN DEVELOPMENT PERMITS ARE REQUIRED WHEN A PROJECT IS LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DEFINED ON THE TOWN OF ADDISON EFFECTIVE FLOOD INSURANCE RATE MAPS (FIRM). PRIOR TO ISSUANCE OF BUILDING PERMITS THE DEVELOPER SHALL PROCESS, COORDINATE AND CORRECT FIRMS ACCORDING TO CURRENT FEDERAL EMERGENCY MANAGEMENT AGENCY RULES AND REGULATIONS.
5. EROSION CONTROL AND STORM WATER MANAGEMENT MEASURES MUST BE IN PLACE AND COMPLY WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, ADDITIONAL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE CITY INSPECTOR.
6. ALL EXCAVATIONS WITHIN EXISTING STREETS SHALL BE FILLED AND COMPACTED WITHIN TWENTY-FOUR (24) HOURS OF COMPLETION OF WORK AND NO EXCAVATION SHALL REMAIN OPEN FOR LONGER THAN 96 HOURS.

BUILDING NOTE

CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRY LOCATIONS, DOWNSPOUT LOCATIONS AND TOTAL NUMBER OF DOWNSPOUTS REQUIRED.

**** NOTICE TO CONTRACTORS ****

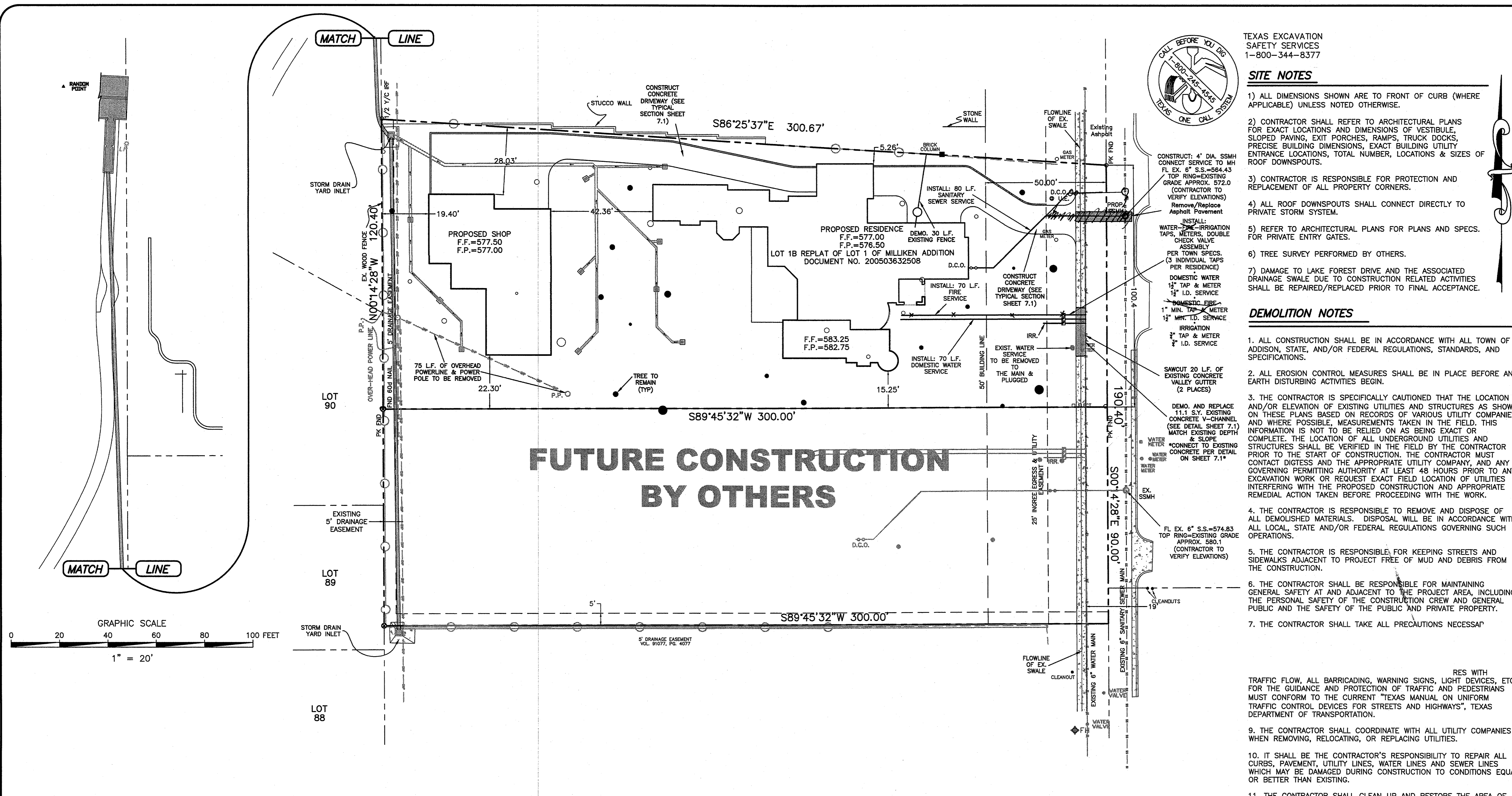
THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. IF THE CONTRACTOR(S) DOES NOT ACCEPT THE EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE MAY HAVE MADE AT HIS EXPENSE A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL ENGINEER OR A REGISTERED PROFESSIONAL LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.



TEXAS EXCAVATION
 SAFETY SERVICES
 1-800-344-8377

14907 Lake Forest



TEXAS EXCAVATION
SAFETY SERVICES
1-800-344-8377

SITE NOTES

- 1) ALL DIMENSIONS SHOWN ARE TO FRONT OF CURB (WHERE APPLICABLE) UNLESS NOTED OTHERWISE.
- 2) CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, TOTAL NUMBER, LOCATIONS & SIZES OF ROOF DOWNSPOUTS.
- 3) CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF ALL PROPERTY CORNERS.
- 4) ALL ROOF DOWNSPOUTS SHALL CONNECT DIRECTLY TO PRIVATE STORM SYSTEM.
- 5) REFER TO ARCHITECTURAL PLANS FOR PLANS AND SPECS. FOR PRIVATE ENTRY GATES.
- 6) TREE SURVEY PERFORMED BY OTHERS.
- 7) DAMAGE TO LAKE FOREST DRIVE AND THE ASSOCIATED DRAINAGE SWALE DUE TO CONSTRUCTION RELATED ACTIVITIES SHALL BE REPAIRED/REPLACED PRIOR TO FINAL ACCEPTANCE.

DEMOLITION NOTES

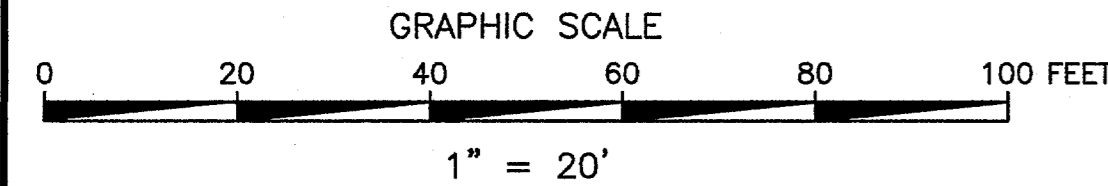
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ADDISON, STATE, AND/OR FEDERAL REGULATIONS, STANDARDS, AND SPECIFICATIONS.
2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY EARTH DISTURBING ACTIVITIES BEGIN.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT DIGEST AND THE APPROPRIATE UTILITY COMPANY, AND ANY GOVERNING PERMITTING AUTHORITY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK OR REQUEST EXACT FIELD LOCATION OF UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIALS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND GENERAL PUBLIC AND THE SAFETY OF THE PUBLIC AND PRIVATE PROPERTY.
7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN TRAFFIC FLOW, ALL BARRICADING, WARNING SIGNS, LIGHT DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE CURRENT "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", TEXAS DEPARTMENT OF TRANSPORTATION.

9. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES WHEN REMOVING, RELOCATING, OR REPLACING UTILITIES.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL CURBS, PAVEMENT, UTILITY LINES, WATER LINES AND SEWER LINES WHICH MAY BE DAMAGED DURING CONSTRUCTION TO CONDITIONS EQUAL OR BETTER THAN EXISTING.
11. THE CONTRACTOR SHALL CLEAN UP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
12. CONTRACTOR TO PROTECT EXISTING LANDSCAPE AND IRRIGATION MATERIAL UNLESS OTHERWISE NOTED.

UTILITY NOTES

- 1) CONTRACTOR SHALL MAINTAIN 10'-FT OF HORIZONTAL SEPARATION BETWEEN ALL WATER AND SANITARY SEWER STRUCTURES AND SERVICES.
- 2) REFER TO ARCHITECTURAL PLANS FOR CONTINUATION OF SERVICES WITHIN 5'-FT OF PROPOSED BUILDING OUTER WALL.
- 3) REFER TO TOWN OF ADDISON PUBLIC WORKS MANUAL FOR SPECIFICATIONS AND DETAILS FOR:
 - A) WATER, FIRE AND IRRIGATION TAP AND METERS
 - B) SANITARY SEWER TAP AND SERVICE
 - C) PAVEMENT CUT, REMOVAL AND REPLACEMENT
 - D) DRIVEWAY CONNECTION AND CURB RETURN DETAILS
 - E) STORM SEWER CONNECTION DETAIL
- 4) ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR UNDERSIZED FIRE SERVICES. INTERNAL DIMENSIONS HAVE BEEN TAKEN FROM PLANS BY OTHERS. FIRE SERVICE I.D., TAP I.D. & METER I.D. ULTIMATELY DETERMINED BY FINAL FIRE SYSTEM DESIGN. ENGINEER OF RECORD HAS NOT PERFORMED AN ANALYSIS FOR THE SIZING OF DOMESTIC, FIRE & IRRIGATION TAPS, METERS & SERVICE LINES. ALL INTERNAL DIMENSIONS AS SPECIFIED BY OWNER AND OTHER CONTRACTORS.

FUTURE CONSTRUCTION BY OTHERS



LEGEND

- PROP. CONCRETE FLATWORK (REFER TO SHEET 7.1 FOR PAVEMENT DESIGN)
- PROPOSED FENCE (REFER TO ARCHITECTURAL PLAN FOR ELEVATION & SPECS.) PLACEMENT OPTIONAL
- EXISTING FENCE
- S.C.O. INSTALL SINGLE CLEANOUT
- D.C.O. INSTALL DOUBLE CLEANOUT
- PROP. CONCRETE RETAINING WALL (REFER TO STRUCTURAL DESIGN PLANS)
- TREE TO REMAIN
- TREE TO BE REMOVED

BENCHMARK

"T" SQUARE CUT ON CURB RETURN, WEST SIDE OF MONFORT & SAKOWITZ, NE CORNER. ELEV.=608.63

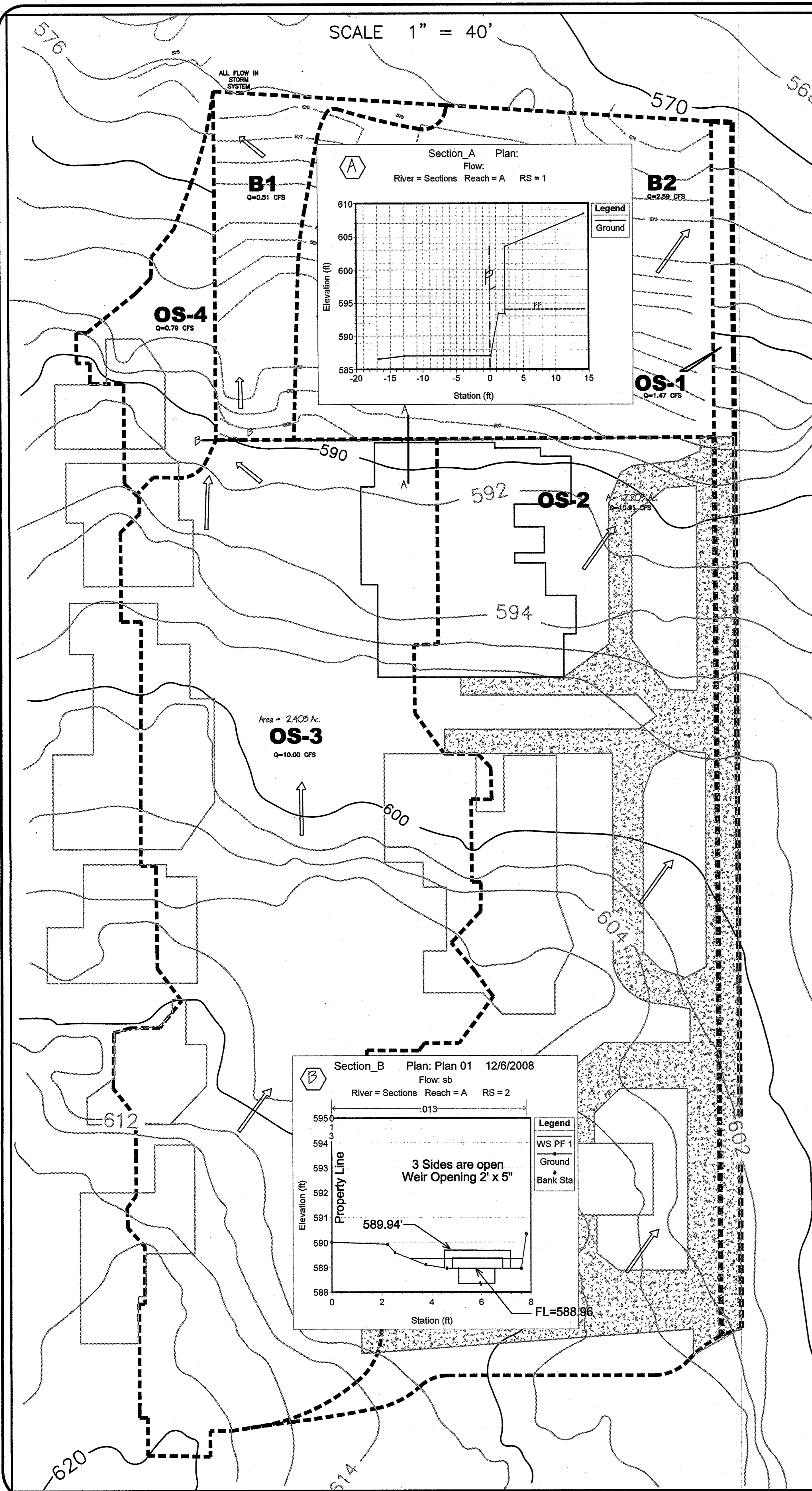
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DATE									
BY									
REVISIONS									
<p>LARRY BLILIE P.I.E. OLSON LAND DEVELOPMENT SERVICES 989 CR 108 WHITESBORO, TX 76273 PH. 940.595.0528</p> <p>CONTACT: NATHAN OLSON</p>									
<p>LOT 1B, MILLIKEN ADDITION VICTOR MEYERS CUSTOM HOMES, LLC (OWNER LOT 1B) MICHAEL & RACHEL HARDIN</p> <p>SITE, DEMOLITION & UTILITY PLAN</p>									
<p>PROJECT MANAGER NJO</p> <p>PROJECT TECHNICIAN NJO</p> <p>JOB NUMBER 2006.018</p> <p>SHEET NUMBER 2.1</p>									



DRAINAGE CALCULATIONS 12/06/2008

Drainage Area #	Impervious Area C=0.95	Pervious Area C=0.25	Total Area (acres)	C Pervious	C Impervious	CW	Tc	I100	Q100
EXISTING CONDITIONS									
B1	0.000	0.271	0.271	0.25	0.95	0.25	15	7.52	0.51
B2	0.096	1.013	1.109	0.25	0.95	0.31	15	7.52	2.59
TOTAL			1.38						3.10
OS-1									
OS-1	0.204	0.003	0.207	0.25	0.95	0.94	15	7.52	1.47
OS-2	1.286	0.920	2.206	0.25	0.95	0.66	15	7.52	10.91
OS-3	0.987	1.416	2.403	0.25	0.95	0.55	15	7.52	10.00
OS-4	0.074	0.138	0.213	0.25	0.95	0.49	15	7.52	0.79

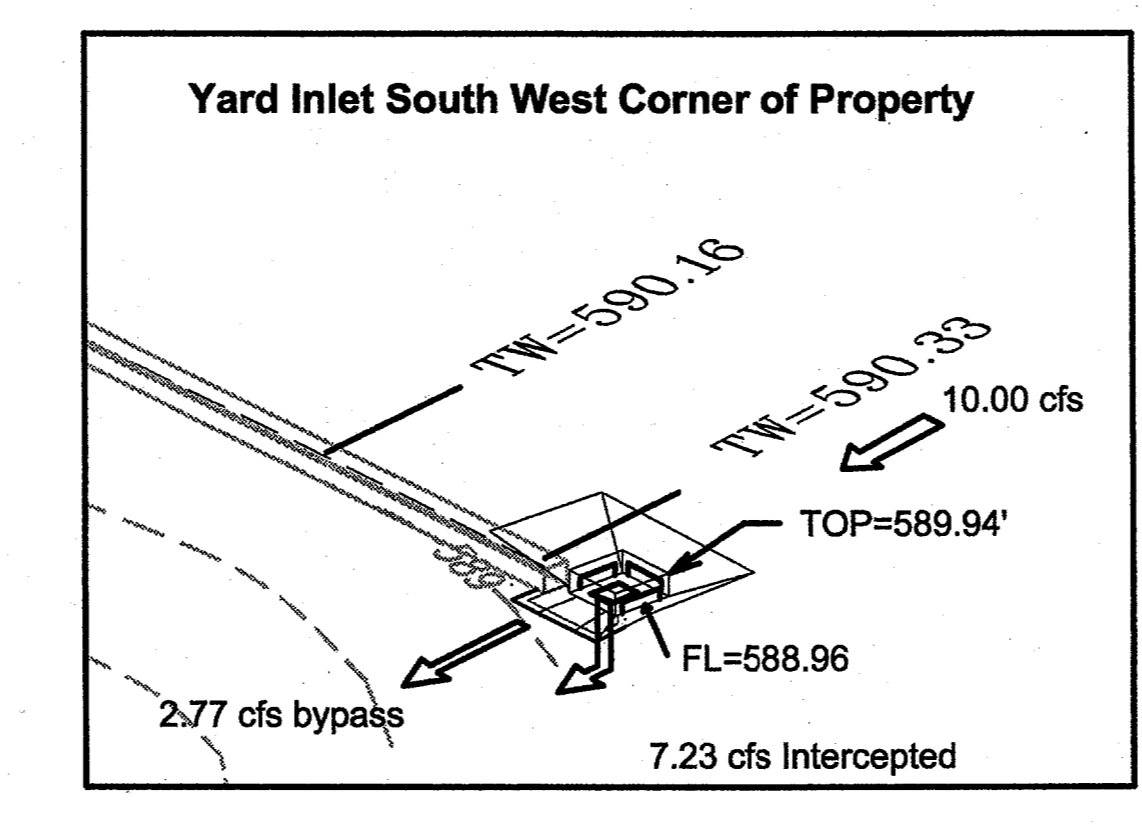
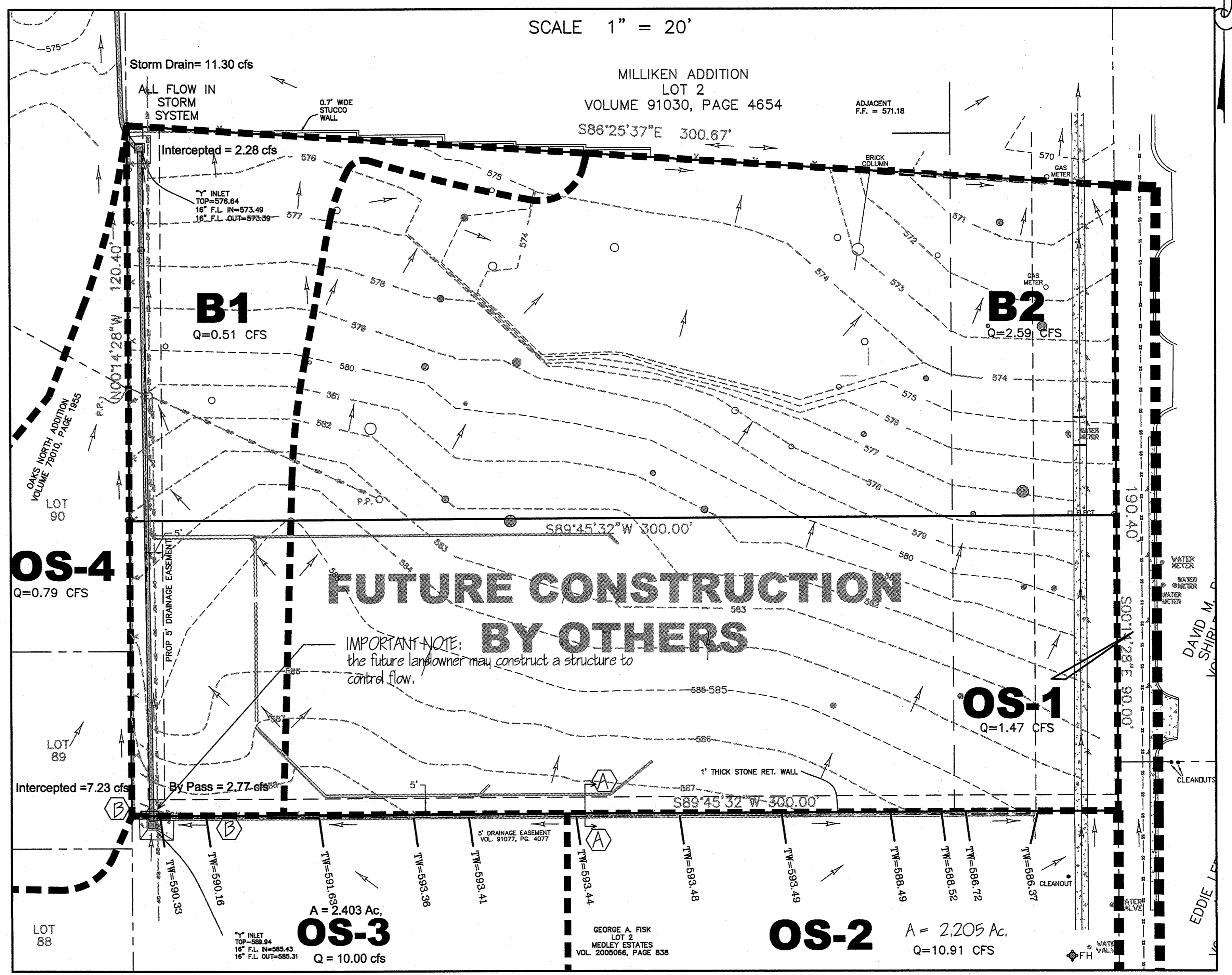
TEXAS EXCAVATION SAFETY SERVICES
1-800-344-8377

GRAPHIC SCALE
0 20 40 60 80 100 FEET

LEGEND

- EXIST. DRAINAGE FLOW ARROW
- EXISTING CONTOUR
- B1** Q=0.00 CFS 100 YR RUNOFF

CALL BEFORE YOU DIG
1-800-245-4545
TEXAS ONE CALL SYSTEM



Summary for Pond 2P: (new Pond)

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 589.38' (Flood elevation advised)

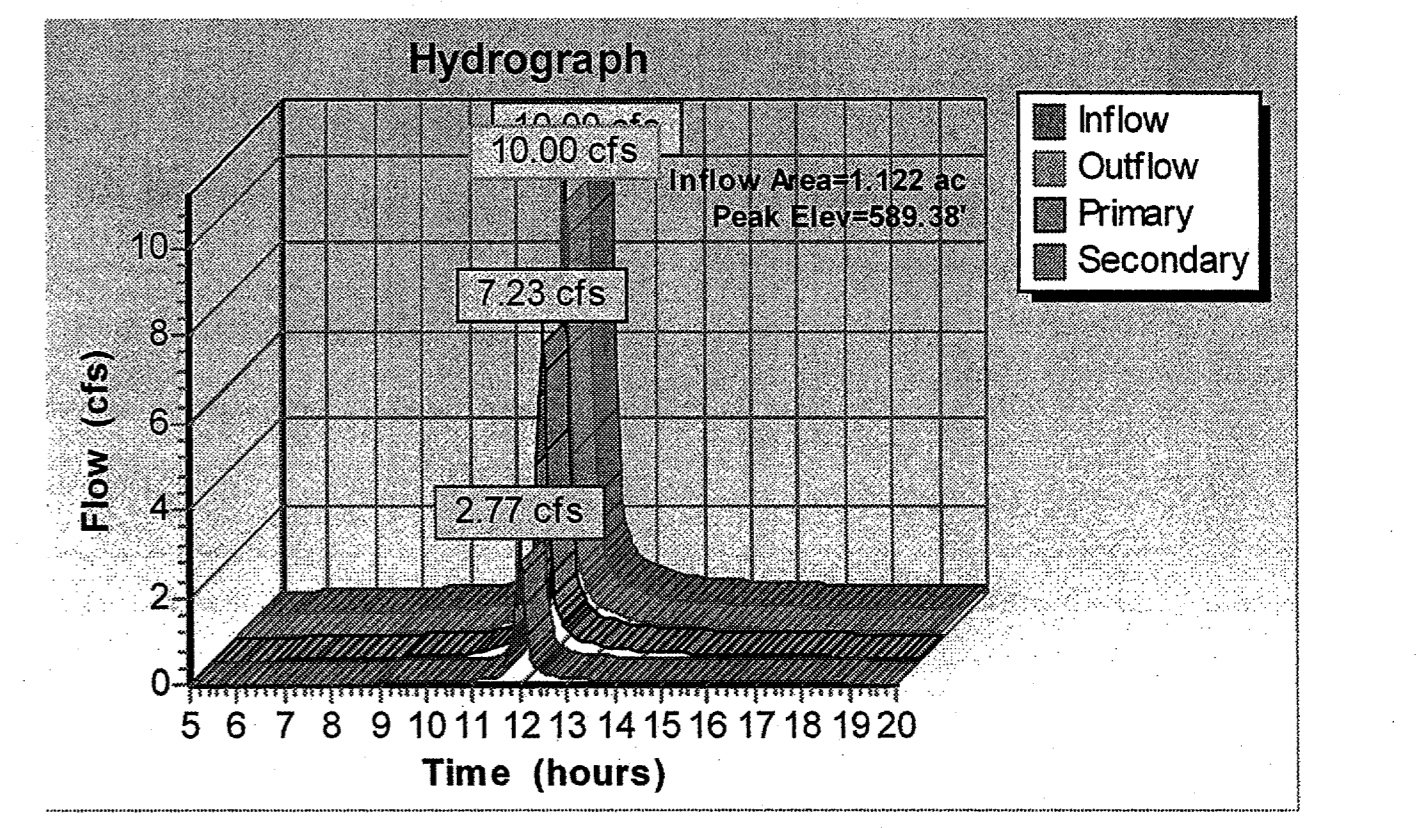
Inflow Area = 1.122 ac. 0.00% Impervious, Inflow Depth > 5.84"
Inflow = 10.00 cfs @ 12.01 hrs, Volume = 0.546 af
Outflow = 10.00 cfs @ 12.01 hrs, Volume = 0.546 af, Atten=0%, Lag=0.0 min
Primary = 7.23 cfs @ 12.01 hrs, Volume = 0.395 af
Secondary = 2.77 cfs @ 12.01 hrs, Volume = 0.150 af

Routing by Stor-Ind method, Time Span=5.00-20.00 hrs, dt=0.05 hrs
Peak Elev=589.38 @ 12.01 hrs

Devices Routing Invert Outlet Devices
#1 Primary 588.96' 2.00' x 2.00' Horiz. Orifice/Grate Limited to weir flow C=0.600
#2 Secondary 588.96' 3.0' long x 1.00' rise Sharp-Crested Rectangular Weir
2 End Contractions 1.0' Crest Height

Primary Outflow Max=7.11 cfs @ 12.01 hrs HW=589.38' (Free Discharge)
L-1-Orifice/Grate (Weir Controls 7.11 cfs @ 2.12 fps)

Secondary Outflow Max=2.72 cfs @ 12.01 hrs HW=589.38' (Free Discharge)
L-2-Sharp-Crested Rectangular Weir (Weir Controls 2.72 cfs @ 2.23 fps)



DATE

BY

REVISIONS

LARRY BLILIE P.E.
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DRAINAGE PLAN (EXISTING CONDITIONS)

PROJECT MANAGER
NJO

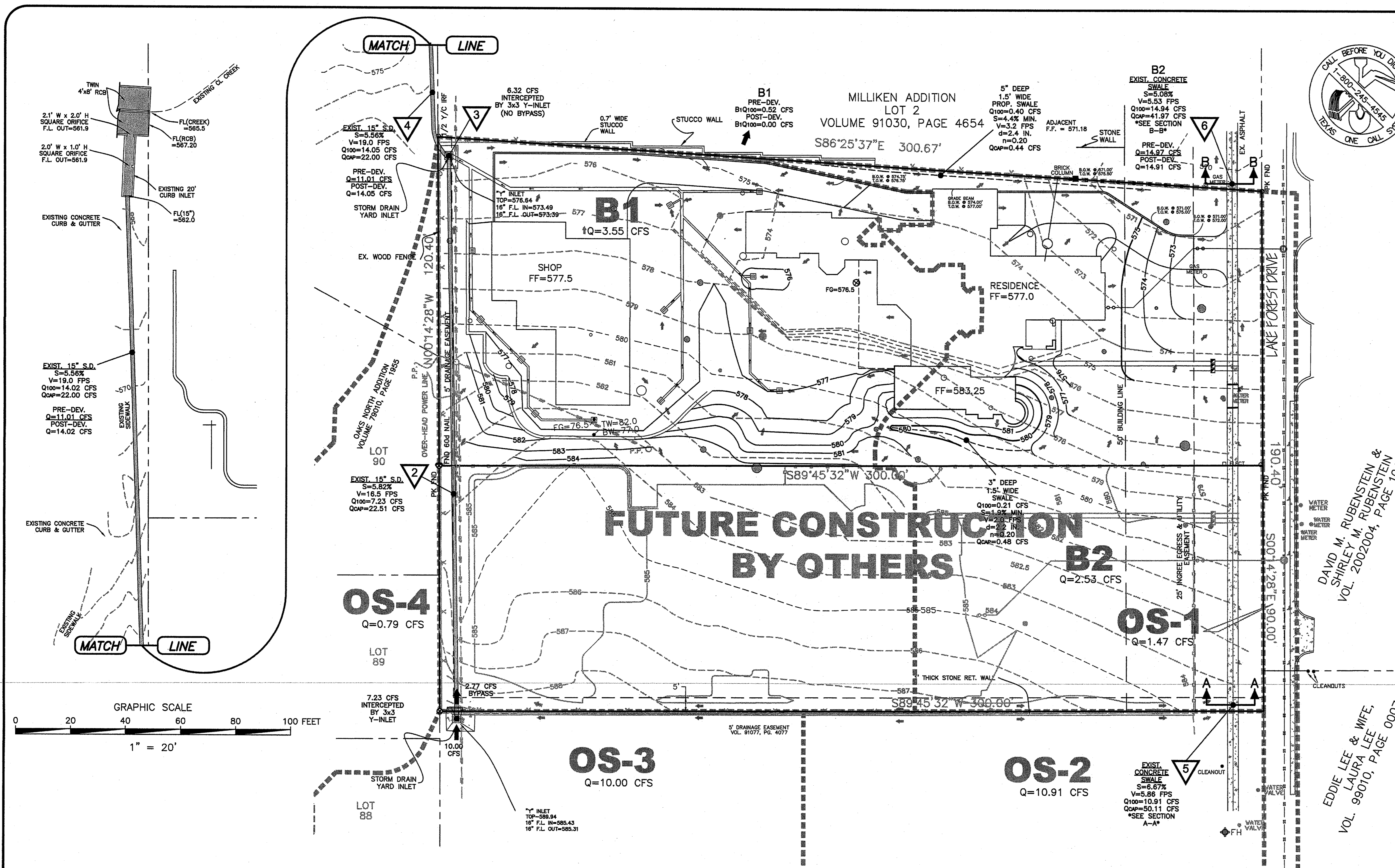
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1-7-09

STATE OF TEXAS
LARRY A. BLILIE
Professional Engineer
No. 91953



TEXAS EXCAVATION SAFETY SERVICES
1-800-344-8377

CALL BEFORE YOU DIG
1-800-345-4345
TEXAS ONE CALL SYSTEM

DAVID M. RUBENSTEIN & SHIRLEY M. RUBENSTEIN
VOL. 2002004, PAGE 10440

EDDIE LEE & WIFE,
LAURA LEE
VOL. 99010, PAGE 00076

SEEDING NOTES

- SOIL TEST REPORT: INSTALLER SHALL FURNISH AND PAY FOR A SOIL TEST ANALYSIS TO DETERMINE THE TYPE AND QUANTITIES OF FERTILIZERS AND OTHER AMENDMENTS NECESSARY TO ESTABLISH THE PROPER PH LEVELS AND NUTRIENTS TO BRING EXISTING SOIL TO A SATISFACTORY LEVEL FOR PLANT GROWTH. FURNISH COPIES OF REPORT TO ENGINEER. CONTACT LOCAL COUNTY AGENT FOR TEST.
- PREPARATION: PRIOR TO SEEDING, SPREAD TOPSOIL AS REQUIRED (FOUR INCH MINIMUM) OVER AREAS TO BE SEED AND BRING TO FINISHED GRADES. ADD FERTILIZERS AS REQUIRED BY SOIL TEST REPORT. APPLY IN MANNER AND QUANTITIES AS RECOMMENDED BY COUNTY AGENT. SEED ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AND ISLANDS THAT ARE NOT PLANTED WITH SHRUBBERY, UNLESS OTHERWISE INDICATED ON DRAWINGS AND IN NOTES.
- SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH ESTABLISHED TOLERANCES FOR GERMINATION AND PURITY IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS OF THE FEDERAL SEED ACT, LATEST EDITION. SEED SHALL BE MIXED BY DEALER AND DELIVERED IN SEALED CONTAINERS BEARING DEALER'S GUARANTEED ANALYSIS.
- MAINTENANCE & GUARANTEE: ALL SEED AND TURF AREAS SHALL BE GUARANTEED AND MAINTAINED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS. ALSO MAINTAIN BY WATERING, FERTILIZING, WEEDING, MOWING, APPLICATIONS OF HERBICIDES, FUNGICIDES, INSECTICIDES, AND RE-SEEDING UNTIL A FULL STRAND OF GRASS, FREE OF WEEDS, UNDESIRABLE GRASS SPECIES, DISEASE, AND INSECTS IS ACHIEVED AND ACCEPTABLE TO OWNER.
- MIXTURE: SEED AREAS AS SPECIFIED ON DRAWINGS AND IN NOTES WITH THE FOLLOWING MIXTURES:
RYE GRASS 5 LBS./1000 SQ. FT. SEPTEMBER - MARCH
BERMUDA GRASS 1.5 LBS./1000 SQ. FT. APRIL - AUGUST

GENERAL NOTES

- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
- ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT & CONTINUOUS GRADE w/ EXISTING.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- EXISTING GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
- FINISHED GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS UNTIL A HEAVY STAND OF GRASS IS OBTAINED.
- IF CONTRACTOR RELOCATES BENCHMARK WITH NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.010'.
- FOR LOCATION OF ALL UTILITY ENTRANCES, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, AND TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND PHONE SERVICE TO BUILDING.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.

BENCHMARK
"T" SQUARE CUT ON CURB RETURN, WEST SIDE OF MONFORT & SAKOWITZ, NE CORNER.
ELEV=608.63

DRAINAGE CALCULATIONS 11/10/2008

Drainage Area #	Impervious Area C=0.95	Pervious Area C=0.25	Total Area (acres)	C Pervious	C Impervious	CW	Tc	I100	Q100
PROPOSED CONDITIONS									
B1	0.381	0.442	0.823	0.25	0.95	0.57	15	7.52	3.55
B2	0.281	0.276	0.557	0.25	0.95	0.60	15	7.52	2.53
TOTAL			1.38						6.08

- LEGEND
- 100.00 PROP. SPOT ELEVATION
 - PROP. DRAINAGE FLOW ARROW
 - EXIST. DRAINAGE FLOW ARROW
 - 100 EXISTING CONTOUR
 - 100 PROPOSED CONTOUR
 - B1 DRAINAGE AREA NUMBER
 - 100 YR RUNOFF
 - FF = 000.00 FINISHED FLOOR ELEVATION
 - FP = 000.00 FINISHED PAD ELEVATION
 - 1 DESIGN POINTS (SEE SHEET 3.3 FOR CALCS.)

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GRADING & PROPOSED DRAINAGE PLAN

1-8-09

LARRY A. BLILIE
P.E.
81258

PROJECT MANAGER
NJO

PROJECT TECHNICIAN
NJO

JOB NUMBER
120-10981-000

SHEET NUMBER
3.2

2

Manning Pipe Calculator

Given Input Data: WEIR TYPE: RECTANGULAR, EQUATION: SUPPRESSED, SOLVING FOR: DEPTH OF FLOW, DIAMETER: 15.0000 in, FLOWRATE: 1.64 CFS, COEFFICIENT: 0.650, HEIGHT: 5.0 IN

Computed Results: DEPTH OF FLOW: 4.6 IN, FULL FLOW: 1.87 CFS, VELOCITY: 2.15 FPS, WIDTH: 24.0 IN, AREA: 0.83 FT2, PERIMETER: 34.0 IN, WET PERIMETER: 33.2 IN, WET AREA: 0.76 FT2, PERCENT FULL: 91.6 %

3

WEIR CALCULATOR

Given Input Data: WEIR TYPE: RECTANGULAR, EQUATION: SUPPRESSED, SOLVING FOR: DEPTH OF FLOW, DIAMETER: 15.0000 in, FLOWRATE: 1.64 CFS, COEFFICIENT: 0.650, HEIGHT: 5.0 IN

Computed Results: DEPTH OF FLOW: 4.6 IN, FULL FLOW: 1.87 CFS, VELOCITY: 2.15 FPS, WIDTH: 24.0 IN, AREA: 0.83 FT2, PERIMETER: 34.0 IN, WET PERIMETER: 33.2 IN, WET AREA: 0.76 FT2, PERCENT FULL: 91.6 %

4

Manning Pipe Calculator

Given Input Data: Shape: Circular, Solving for: Depth of Flow, Diameter: 15.0000 in, Flowrate: 14.0200 cfs, Slope: 0.0556 ft/ft, Manning's n: 0.0130

Computed Results: Depth: 11.3416 in, Area: 1.2272 ft2, Wetted Area: 0.9955 ft2, Wetted Perimeter: 31.6282 in, Perimeter: 47.1239 in, Velocity: 14.0835 fps, Hydraulic Radius: 4.5324 in, Percent Full: 75.6104 %, Full flow Flowrate: 15.2320 cfs, Full flow velocity: 12.4121 fps

5

CHANNEL CALCULATOR

Given Input Data: SLOPE: 0.0667 FT/FT, MANNING'S N: 0.022

COMPUTED RESULTS: Q100: DEPTH: 6.6 IN, VELOCITY: 4.98 FPS, FLOWRATE: 10.91 CFS, FLOW AREA: 2.20 FT2, FLOW PERIMETER: 14.50 FT, HYDRAULIC RADIUS: 0.15 FT

STORM-FLOW EXCEEDS TOP OF CONCRETE SWALE BY 1.6 INCHES DURING 100-YR EVENT.

6

CHANNEL CALCULATOR

Given Input Data: SLOPE: 0.0510 FT/FT, MANNING'S N: 0.022

COMPUTED RESULTS: Q100: DEPTH: 7.2 IN, VELOCITY: 4.67 FPS, FLOWRATE: 14.94 CFS, FLOW AREA: 3.20 FT2, FLOW PERIMETER: 18.83 FT, HYDRAULIC RADIUS: 0.17 FT

STORM-FLOW EXCEEDS TOP OF CONCRETE SWALE BY 2.2 INCHES DURING 100-YR EVENT.

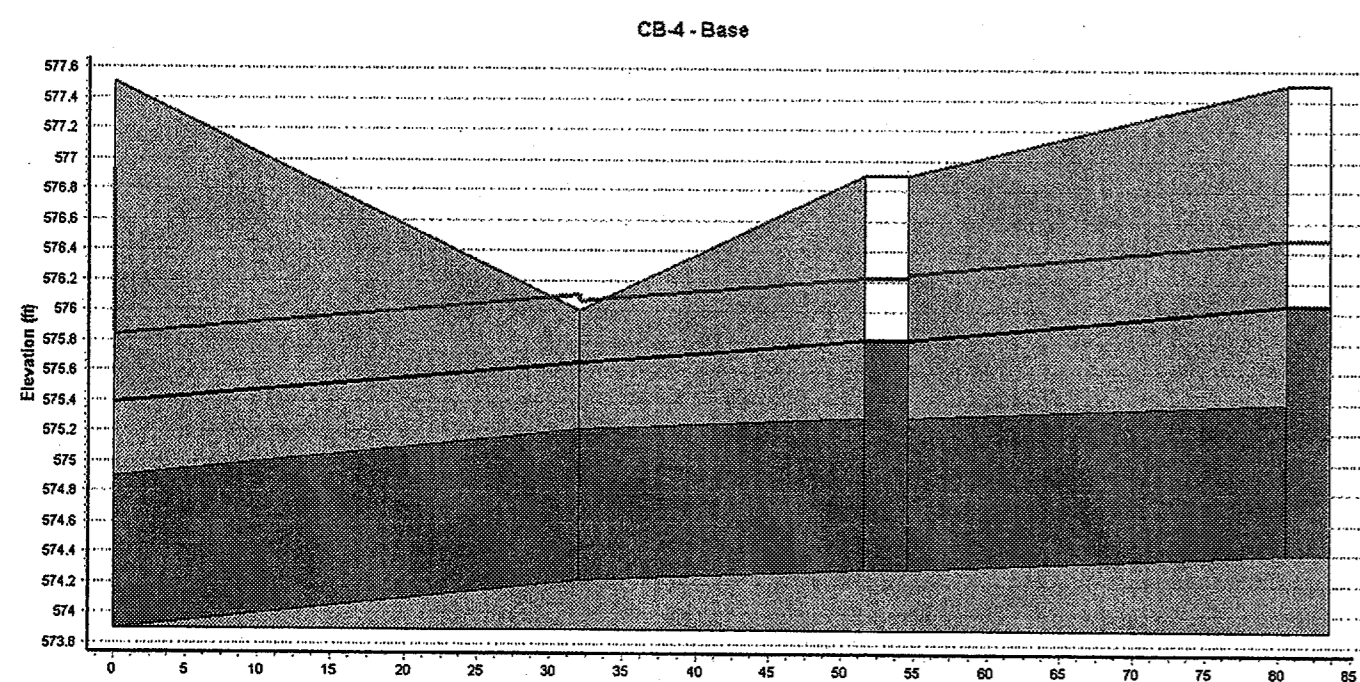


Table with 3 columns and 10 rows of data for swale CB-4-Base, including stationing, elevations, and flow rates.

3.54 CFS COMBINES WITH 10.00 CFS PIPE FLOW TO YIELD 13.54 CFS DISCHARGED TO DOWNSTREAM 15' S.D.R. SEWER.

Table with 2 columns: HEAD and WEIR FLOW, showing a range of values from 0.00000000 to 5.00000000.

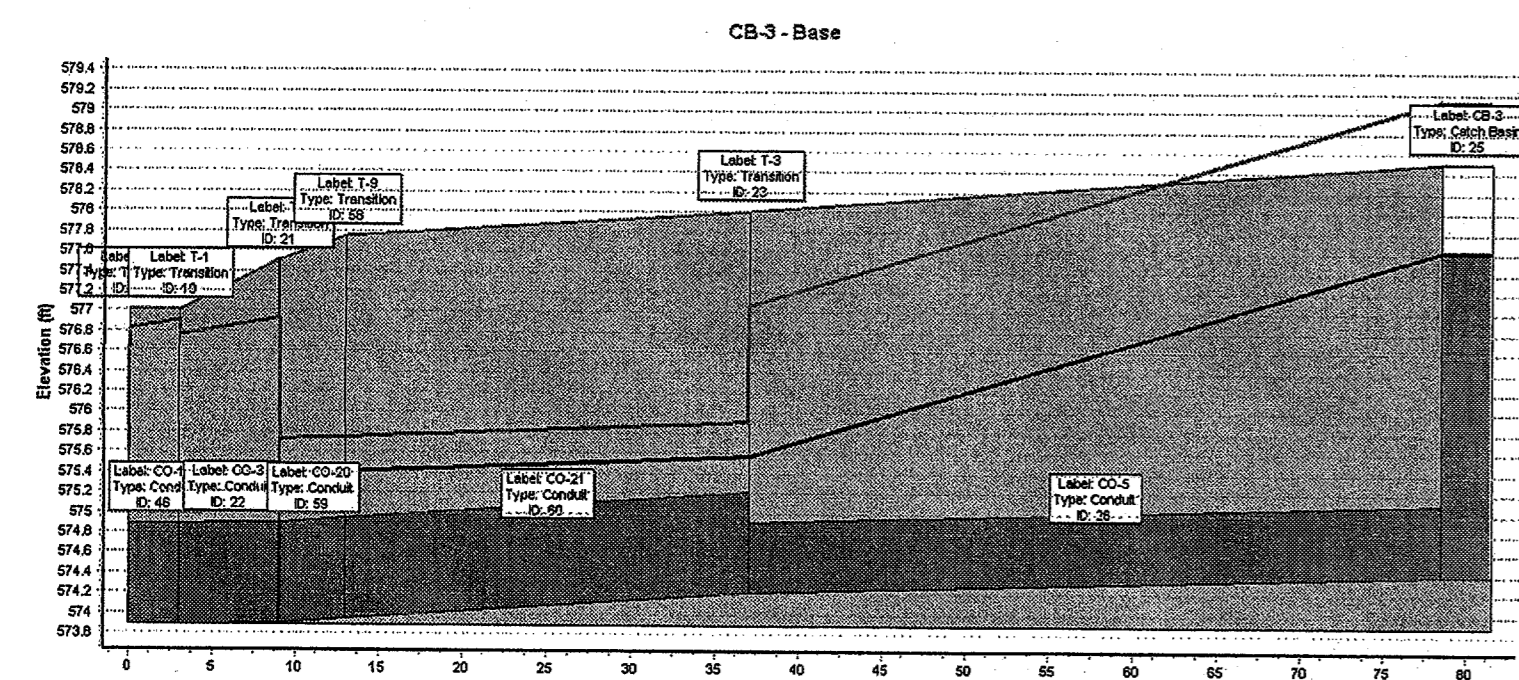
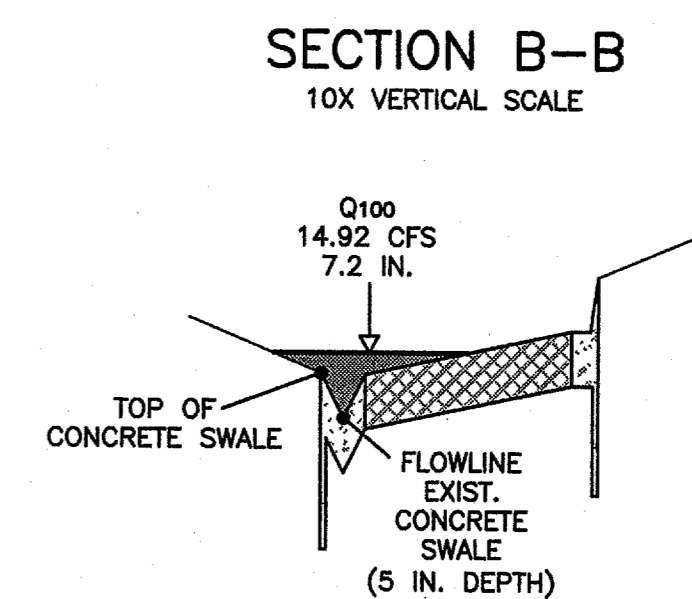
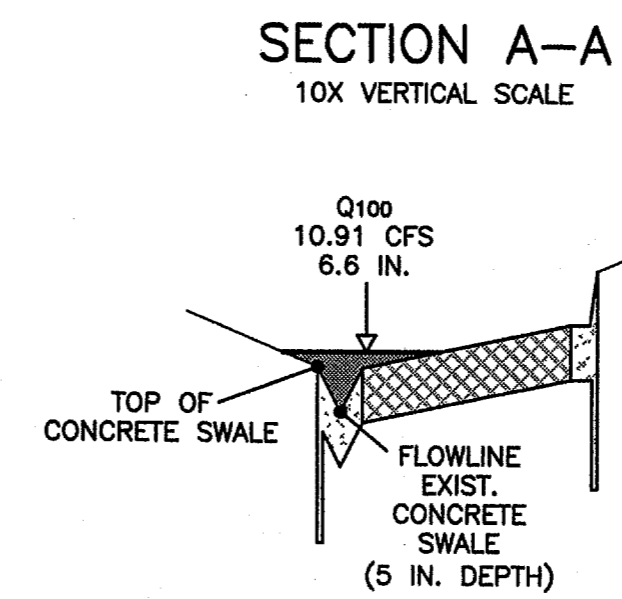


Table with 4 columns and 10 rows of data for swale CB-3-Base, including stationing, elevations, and flow rates.

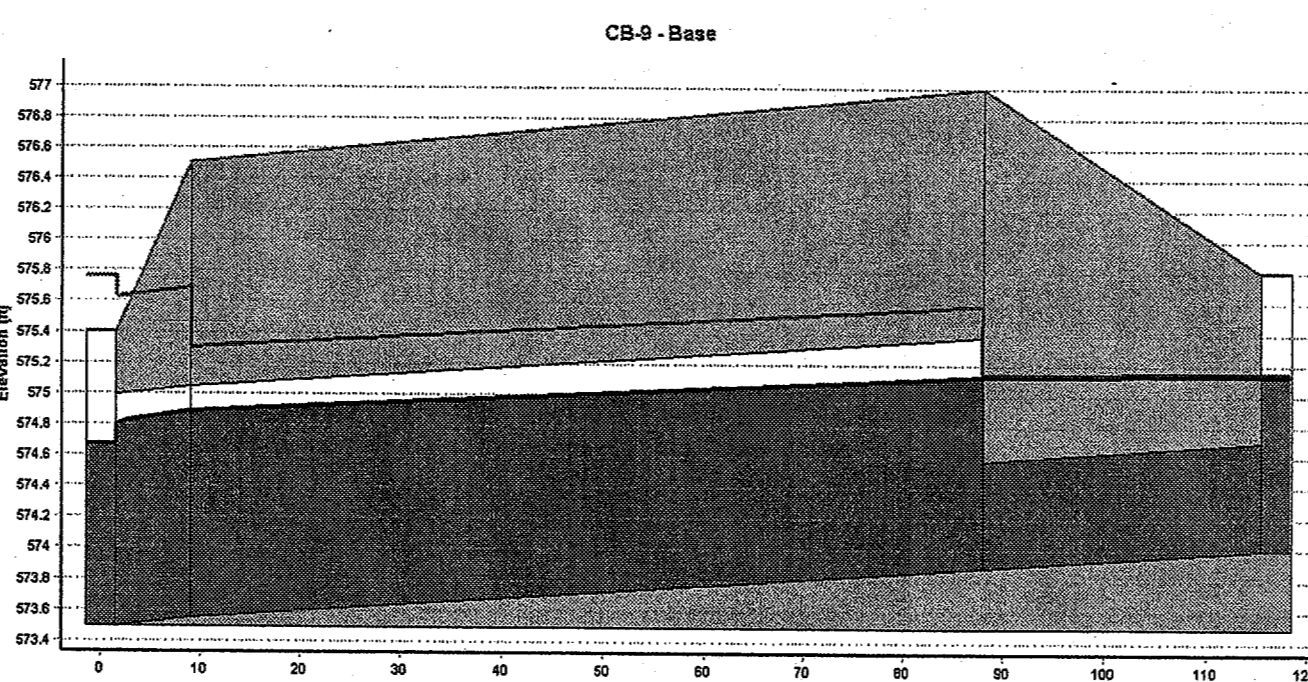


Table with 4 columns and 10 rows of data for swale CB-9-Base, including stationing, elevations, and flow rates.

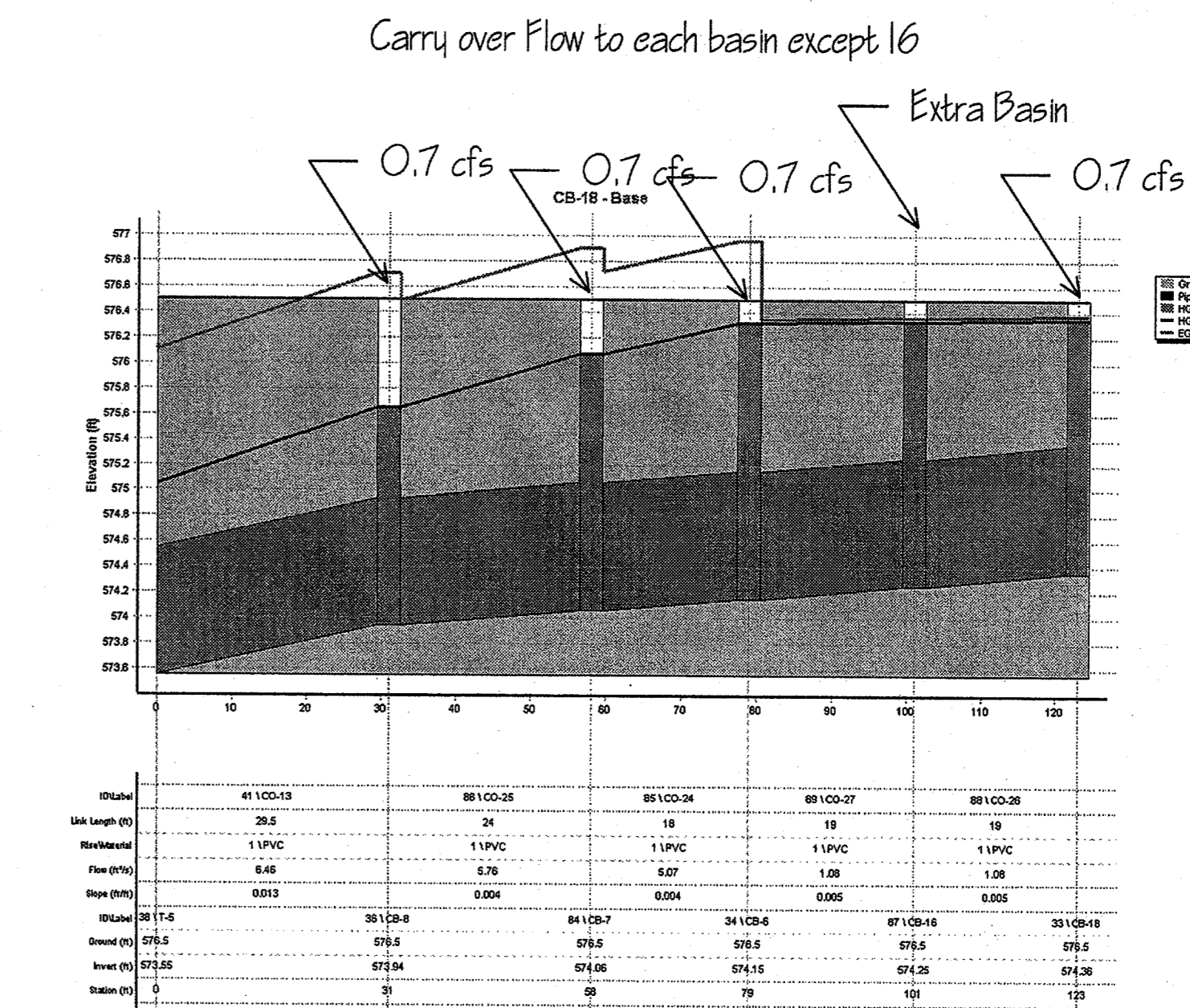
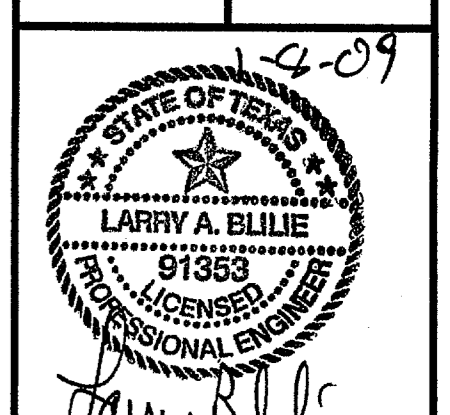


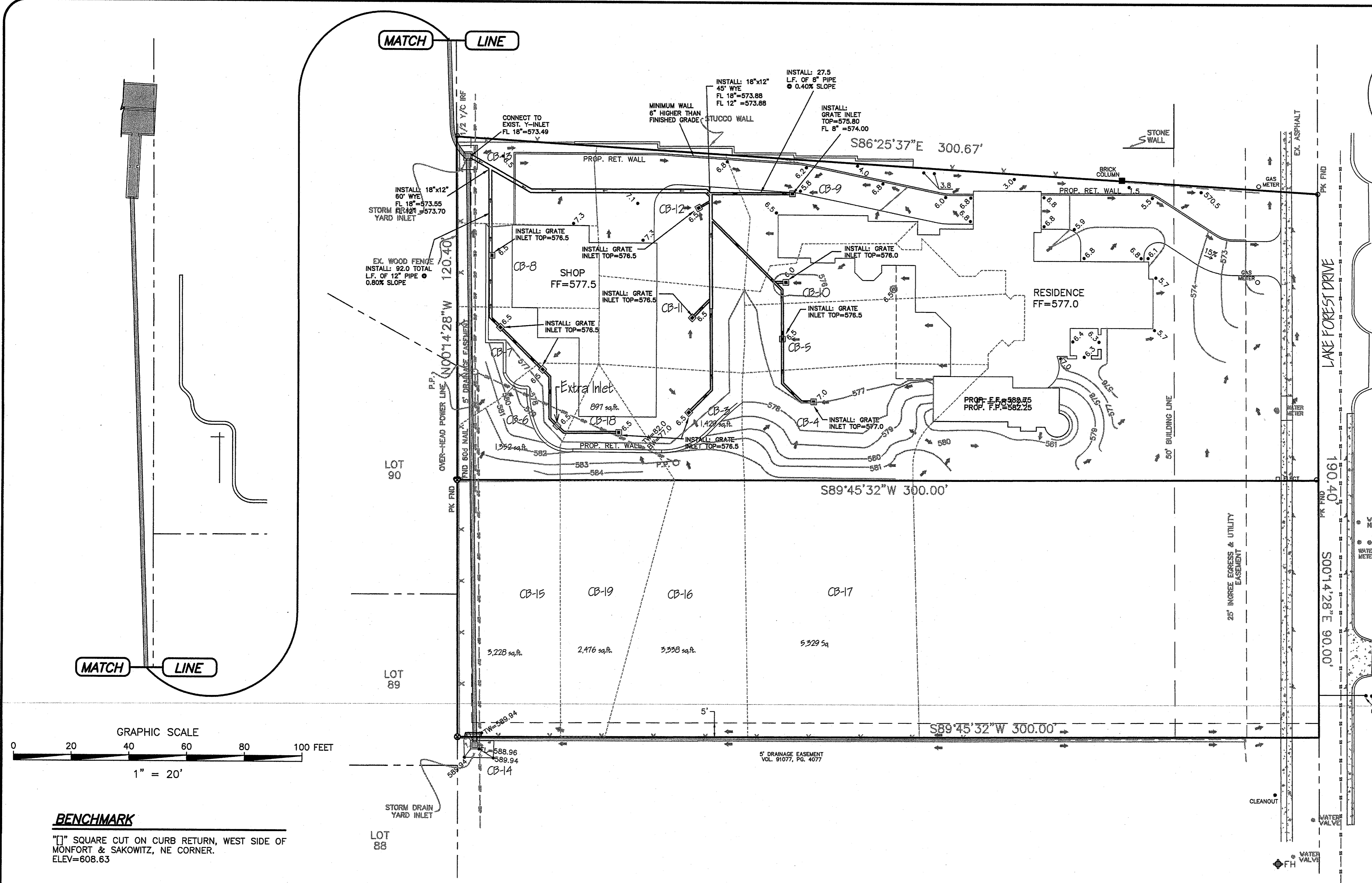
Table with columns for DATE, BY, and REVISIONS.

LARRY BLILIE P.E. OLSON LAND DEVELOPMENT SERVICES 999 CR 106 WHITESBORO, TX 76273 PH: 940.595.0528 CONTACT: NATHAN OLSON

LOT 1B, MILLIKEN ADDITION VICTOR MEYERS CUSTOM HOMES, LLC (OWNER LOT 1B) MICHAEL & RACHEL HARDIN DRAINAGE CALCULATIONS



PROJECT MANAGER: NJO PROJECT TECHNICIAN: NJO JOB NUMBER: 2006.018 SHEET NUMBER: 3.3

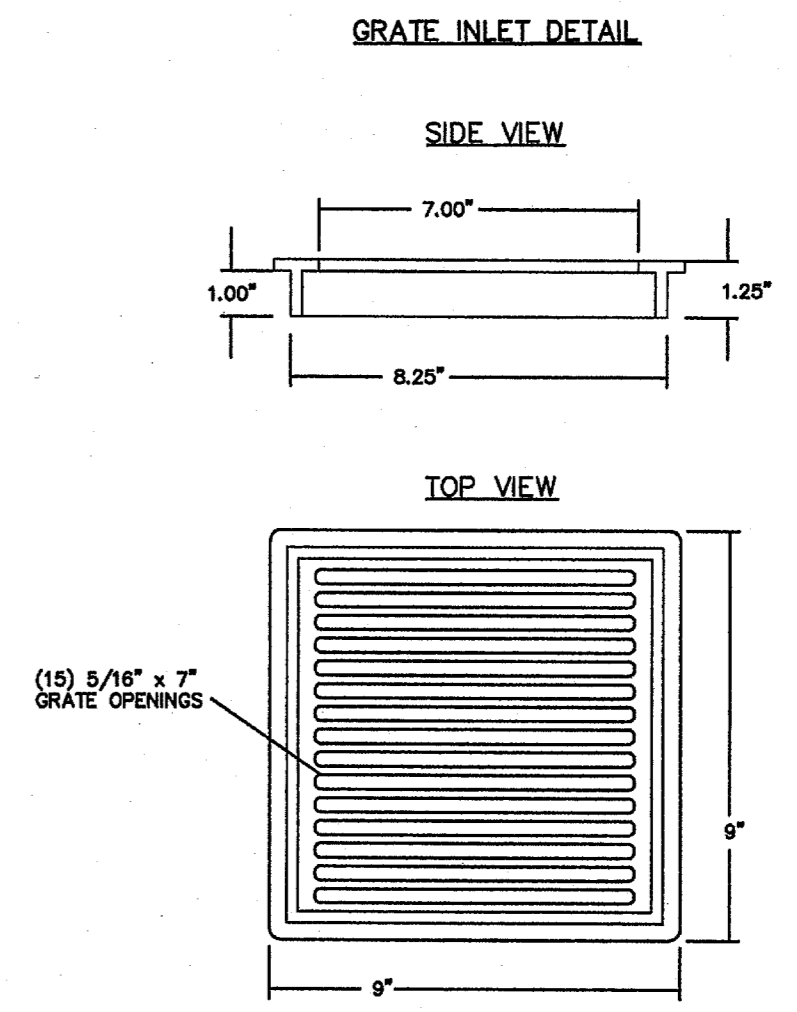


TEXAS EXCAVATION
SAFETY SERVICES
1-800-344-8377

GRATE CAPACITY CALCULATION

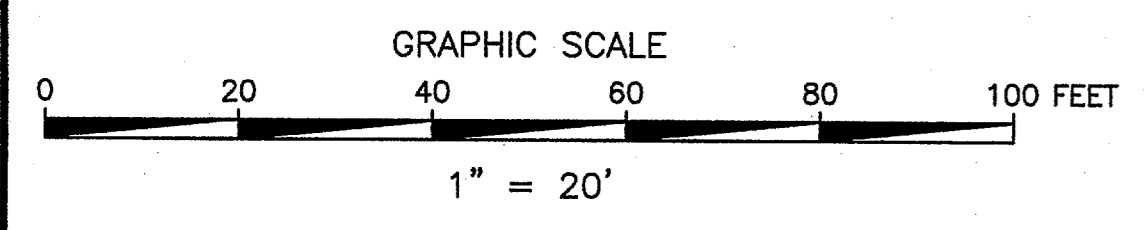
$Q = (Co)A(2gd)^{0.5}$
 WHERE:
 Q = INLET CAPACITY, C.F.S.
 Co = ORIFICE COEFFICIENT = 0.67
 A = CLEAR OPENING AREA OF THE GRATE, FT²
 g = 32.2 FT/SEC²
 d = DEPTH OF WATER ABOVE THE TOP OF GRATE, FT
 MINIMUM ALLOWED CLEAR OPENING OF 9" SQUARE GRATE TO BE 27.3 IN² = 0.19 FT²
 $Q = (Co)A(2gd)^{0.5}$
 $Q = 0.67 \times 0.19(2 \times 32.2 \times 0.5)^{0.5}$

Q (cfs)	Head	
	3"	6"
	0.51	0.72



SITE NOTES

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, TOTAL NUMBER, LOCATIONS & SIZES OF ROOF DOWNSPOUTS.
- PRIVATE STORM DRAIN PIPE TO BE CONSTRUCTED OF H.D.P.E. SUCH AS ADS-N12 OR EQUAL.
- ALL CATCH BASINS TO BE 9" x 9" SQUARE P.V.C.
- ALL GRATE INLETS TO BE 9" x 9" SQUARE LOW-PROFILE WITH 5/16" OR GREATER GRATE OPENINGS WITH 27.3 SQUARE INCH OR GREATER OPEN SURFACE AREA.
- ALL ROOF DOWNSPOUTS SHALL CONNECT DIRECTLY TO PRIVATE STORM SYSTEM.
- REFER TO ARCHITECTURAL PLANS FOR PLANS AND SPECS. FOR PRIVATE ENTRY GATES.
- TREE SURVEY PERFORMED BY OTHERS.
- DAMAGE TO LAKE FOREST DRIVE AND THE ASSOCIATED DRAINAGE SWALE DUE TO CONSTRUCTION RELATED ACTIVITIES SHALL BE REPAIRED/REPLACED PRIOR TO FINAL ACCEPTANCE.



BENCHMARK

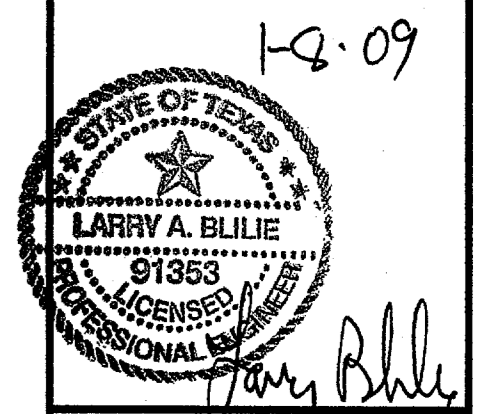
"I" SQUARE CUT ON CURB RETURN, WEST SIDE OF MONFORT & SAKOWITZ, NE CORNER. ELEV=608.63

D.A.	T.C.	C.	1/100 (IN/100)	A (ACRES)	Q ₁₀₀ (CFS)	Q ₁₀₀ Carry Over	COMMENTS
CB-3	10	0.80	8.74	0.033	0.22	0.00	DRAINING TO INLET "CB-3"
CB-4	10	0.80	8.74	0.063	0.45	0.00	DRAINING TO INLET "CB-4"
CB-5	10	0.80	8.74	0.050	0.36	0.00	DRAINING TO INLET "CB-5"
CB-6	10	0.80	8.74	0.031	0.22	0.70	DRAINING TO INLET "CB-6"
CB-7	10	0.80	8.74	0.030	0.22	0.70	DRAINING TO INLET "CB-7"
CB-8	10	0.80	8.74	0.033	0.24	0.00	DRAINING TO INLET "CB-8"
CB-9	10	0.80	8.74	0.047	0.34	0.00	DRAINING TO INLET "CB-9"
CB-10	10	0.80	8.74	0.031	0.22	0.00	DRAINING TO INLET "CB-10"
CB-11	10	0.80	8.74	0.035	0.25	0.00	DRAINING TO INLET "CB-11"
CB-12	10	0.80	8.74	0.054	0.39	0.00	DRAINING TO INLET "CB-12"
CB-13	10	0.80	8.74	0.033	0.24	0.00	DRAINING TO INLET "CB-13"
CB-14	15	0.55	7.52	2.403	7.23	0.00	DRAINING TO INLET "CB-14"
CB-15	10	0.57	8.74	0.074	0.52	0.00	DRAINING TO INLET "CB-6"
CB-16	10	0.57	8.74	0.103	0.51	0.00	DRAINING TO INLET "CB-3"
CB-17	10	0.57	8.74	0.122	0.61	0.00	DRAINING TO INLET "CB-4"
CB-18	10	0.57	8.74	0.021	0.10	0.70	DRAINING TO INLET "CB-18"
CB-19	10	0.57	8.74	0.057	0.28	0.00	DRAINING TO INLET "CB-18"
CB-Extra 6	0	0.00	0.00	0.00	0.00	0.70	DRAINING TO INLET "CB-6"

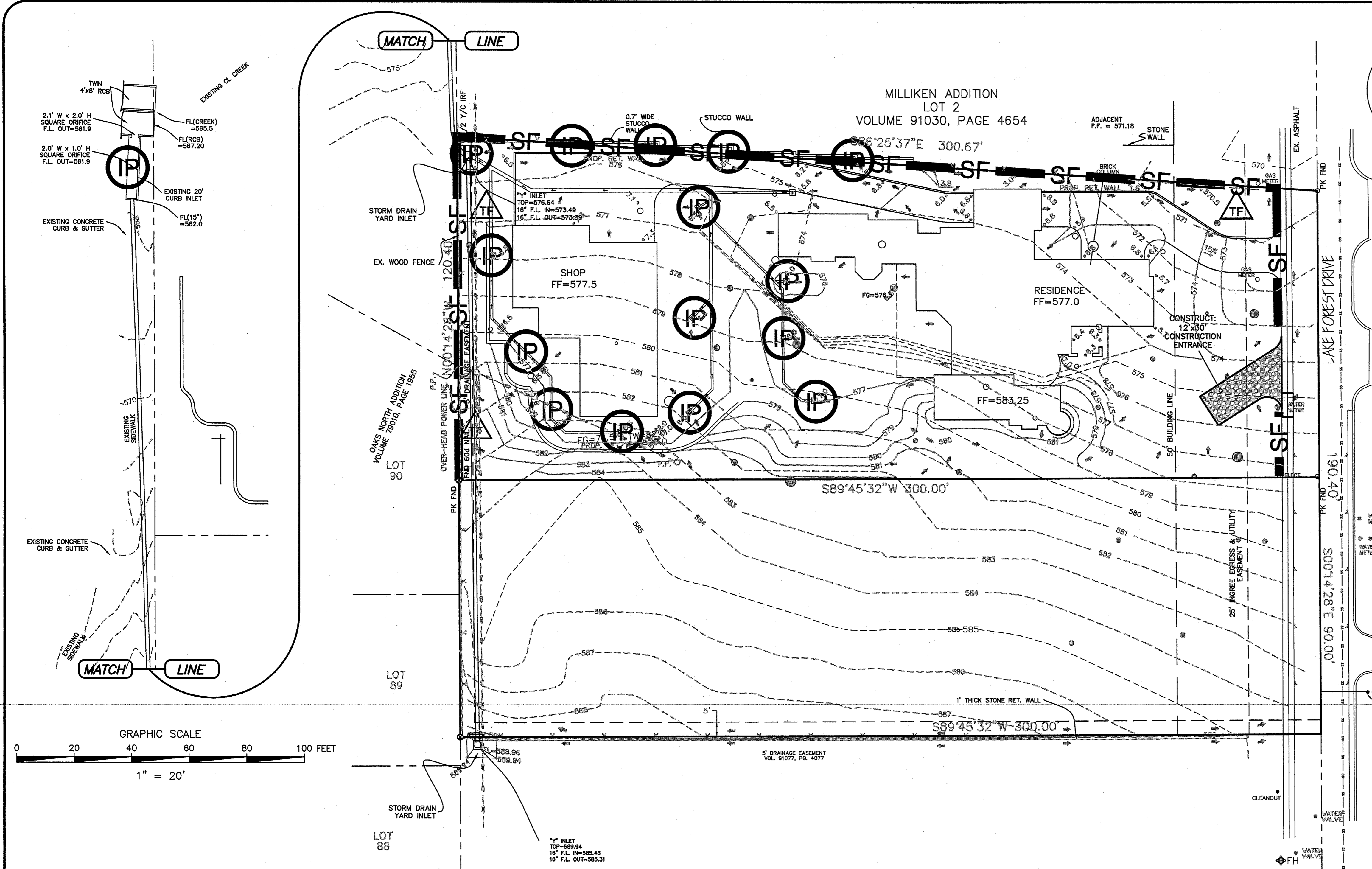
DATE	BY	REVISIONS

LARRY BLILIE P.E.
OLSON LAND DEVELOPMENT SERVICES
998 CR 105
WHITESBORO, TX 76273
PH. 940.395.0528
CONTACT: NATHAN OLSON

LOT 1B, MILLIKEN ADDITION
VICTOR MEYERS CUSTOM HOMES, LLC
(OWNER LOT 1B) MICHAEL & RACHEL HARDIN
PRIVATE STORM SYSTEM PLAN



PROJECT MANAGER
NJU
PROJECT TECHNICIAN
NJU
JOB NUMBER
120-10981-000
SHEET NUMBER



TEXAS EXCAVATION
SAFETY SERVICES
1-800-344-8377

0.76 ACRES
TO BE DISTURBED

EROSION CONTROL NOTES

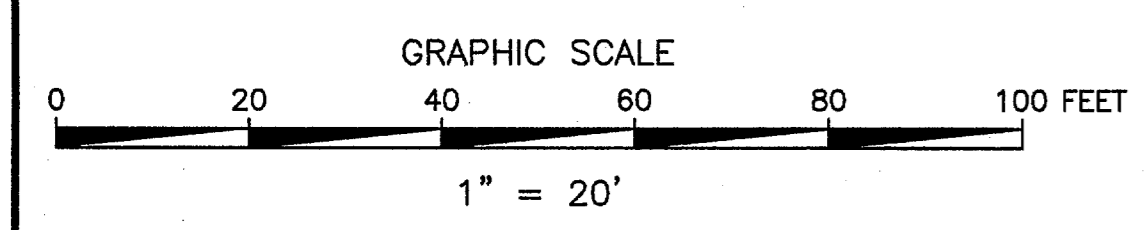
1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. BEST MANAGEMENT PRACTICES (STRUCTURAL PRACTICES) USED IN THIS PROJECT COULD INCLUDE SILT FENCING, CONSTRUCTION ENTRANCE, INLET PROTECTION, OUTLET PROTECTION, SUBSURFACE DRAINS, CHECK DAMS, DRAINAGE SWELLS, SEDIMENT TRAPS, EARTH DIKE, PIPE SLOPE DRAINS, EROSION CONTROL MATTING, DETENTION/RETENTION PONDS AND SEDIMENT BASINS AND ANY OTHER MEANS NECESSARY TO PREVENT POLLUTION.
3. INSPECTION OF EROSION CONTROLS TO BE PERFORMED ONCE A WEEK AND WITHIN 24 HOURS OF RAINFALL EVENTS OF 0.5 INCHES OR GREATER. IF REPAIR IS NECESSARY, IT SHALL BE DONE AT EARLIEST PRACTICAL DATE BUT IN EACH CASE NOT GREATER THAN 48 HOURS.
4. MAINTENANCE OF EROSION CONTROLS TO BE PERFORMED AS SPECIFIED IN DETAILS.
5. THE CONTRACTOR SHALL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING SITE.
6. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
7. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED FOR A MINIMUM OF 14 DAYS MUST BE STABILIZED BY THE CONTRACTOR TO CONTROL EROSION.
8. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM SITE.
9. IF SOIL STOCKPILING IS EMPLOYED ON THE SITE, SILT FENCING SHALL BE USED TO HELP CONTAIN THE SEDIMENT.
10. TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORM WATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDERING THEM UNSUITABLE FOR FILL USE.
11. NO TRASH, GARBAGE, OR OTHER MATERIALS SHALL BE DISCHARGED INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL WASTE WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN THESE MATERIALS AND STORM WATER THAT IS DISCHARGED FROM THE SITE.
13. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION. FINAL STABILIZATION IS DEFINED AS A UNIFORM PERENNIAL VEGETATIVE COVER AT A MINIMUM OF 70% RESTORATION OF THE NATIVE OR NATURAL PRE-EXISTING BACKGROUND COVER FOR THE AREA.
14. SEDIMENTATION PONDS/ BASINS MUST BE CLEANED OUT WHEN SEDIMENTATION ACCUMULATES 50% BY VOLUME. LOCAL ORDINANCES AND REGULATIONS REGARDING HEALTH AND SAFETY MUST BE ADHERED TO.
15. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD TO ONE-HALF THE HEIGHT OF THE SILT FENCE.
16. INLET PROTECTION SHALL BE PLACED AROUND ALL CATCH BASINS AND CURB INLETS AS REQUIRED DURING CONSTRUCTION.
17. ALL PROPOSED SLOPES STEEPER THAN 3H: 1V SHALL BE STABILIZED AND PROTECTED FROM EROSION WITH EROSION CONTROL MATTING.
18. ALL CONSTRUCTION SHALL MEET OR EXCEED THE STATE AND LOCAL MUNICIPAL REQUIREMENTS AND SPECIFICATIONS.
19. NOTIFY THE NATIONAL RESPONSE CENTER (800) 424-8802 OR (202) 426-2675 AS SOON AS YOU HAVE KNOWLEDGE OF THE SPILL.
20. ALL DISTURBED AREAS SHALL BE SODDED IMMEDIATELY FOLLOWING FINAL GRADING.

BENCHMARK

"1" SQUARE CUT ON CURB RETURN, WEST SIDE OF MONFORT & SAKOWITZ, NE CORNER. ELEV=608.63

LEGEND

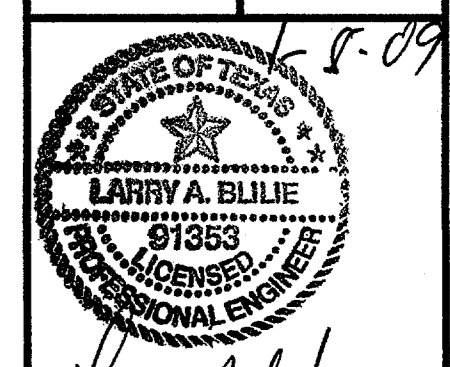
- INLET PROTECTION
SEE DETAIL SHEET 6.1
- DOUBLE SILT FENCE
SEE DETAIL SHEET 6.1
- TRIANGULAR SEDIMENT FILTER DIKE
SEE DETAIL SHEET 6.1



REVISIONS	DATE

LARRY BLILIE P.E.
OLSON LAND DEVELOPMENT SERVICES
989 CR. 108
WHITESBORO, TX 76273
PH. 940.595.0528
CONTACT: NATHAN OLSON

LOT 1B, MILLIKEN ADDITION
VICTOR MEYERS CUSTOM HOMES, LLC
(OWNER LOT 1B) MICHAEL & RACHEL HARDIN
EROSION CONTROL PLAN

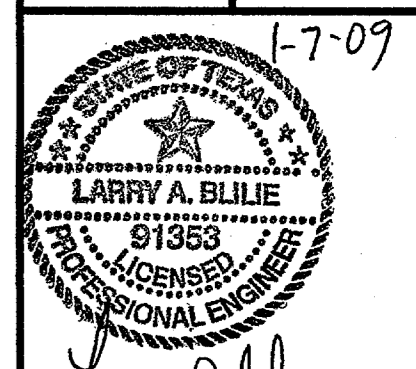


PROJECT MANAGER
NUO
PROJECT TECHNICIAN
NUO
JOB NUMBER
120-10981-000
SHEET NUMBER

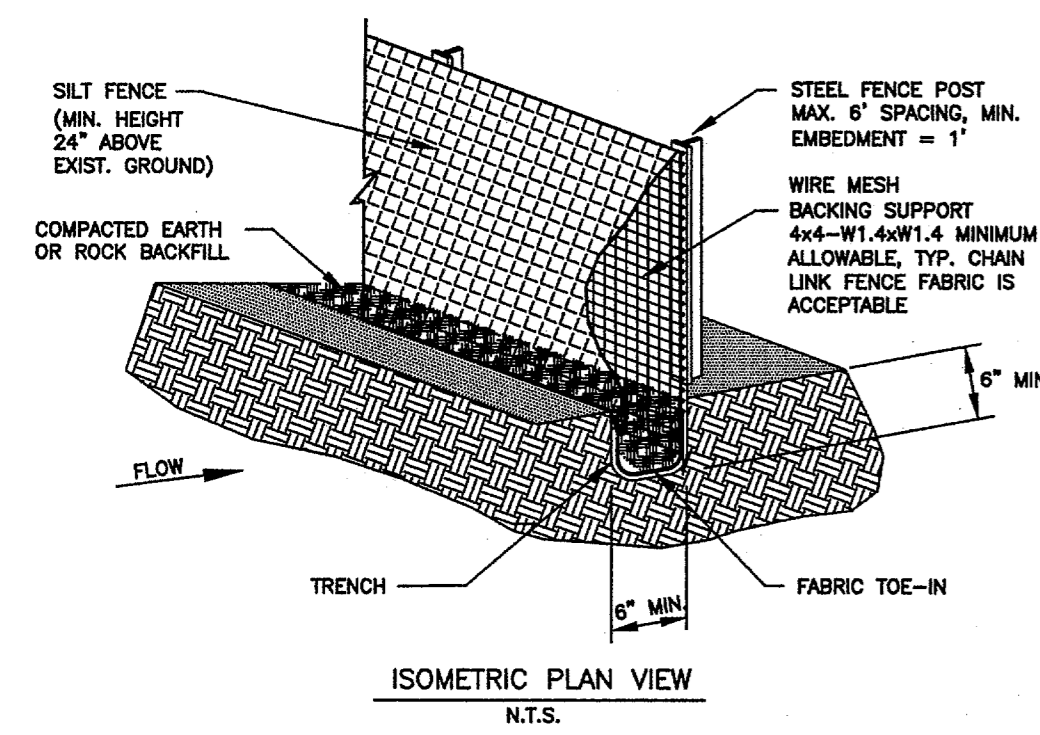
DATE	
BY	
REVISIONS	

LARRY BLILIE P.E.
 OLSON LAND DEVELOPMENT SERVICES
 989 CR 108
 WHITESBORO, KY 40387
 PH. 846.595.0528
 CONTACT: NATHAN OLSON

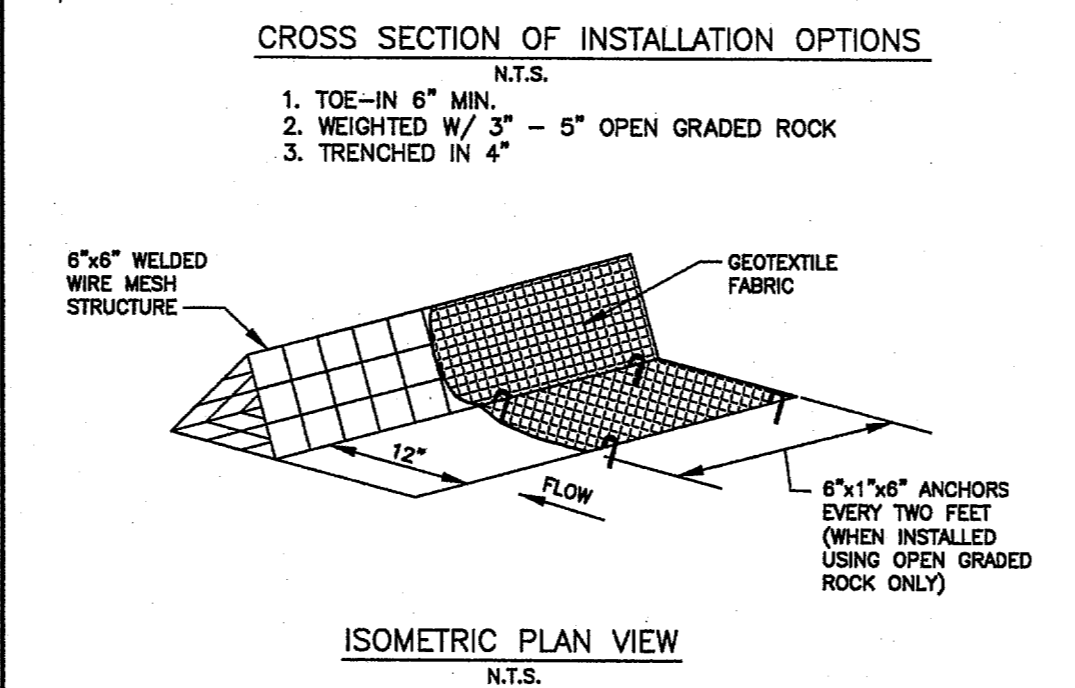
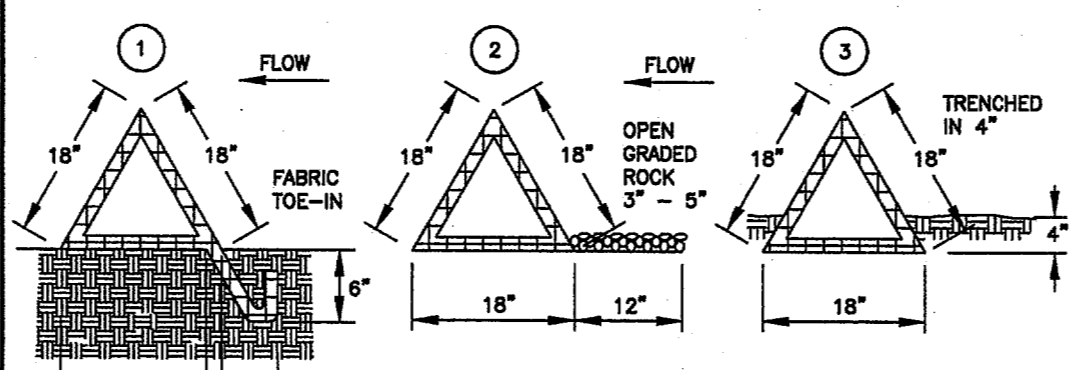
LOT 1B, MILLIKEN ADDITION
 VICTOR MEYERS CUSTOM HOMES, LLC
 (OWNER LOT 1B) MICHAEL & RACHEL HARDIN



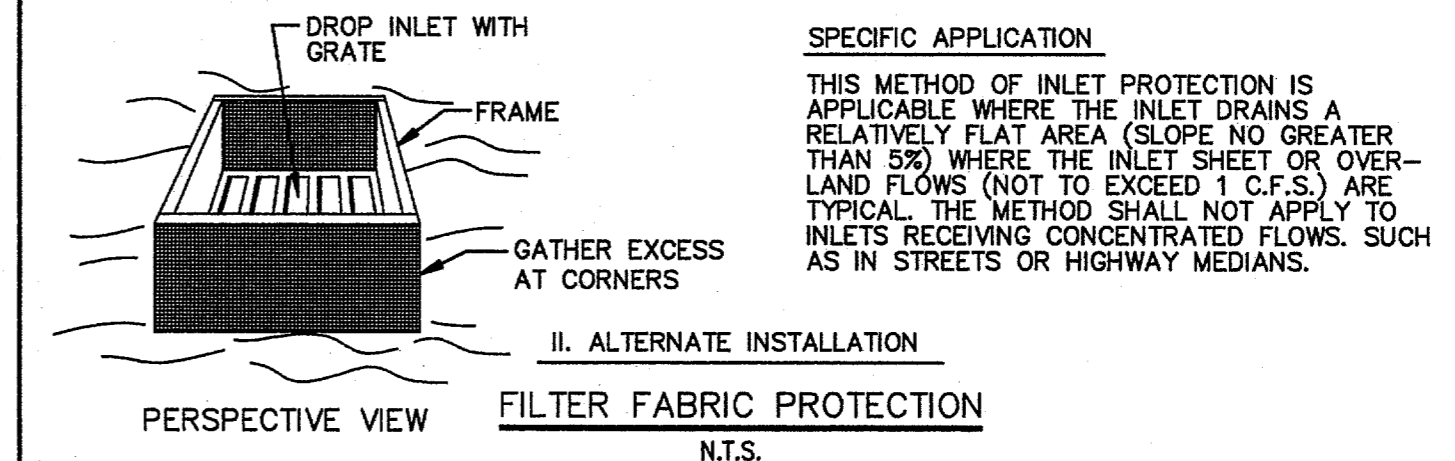
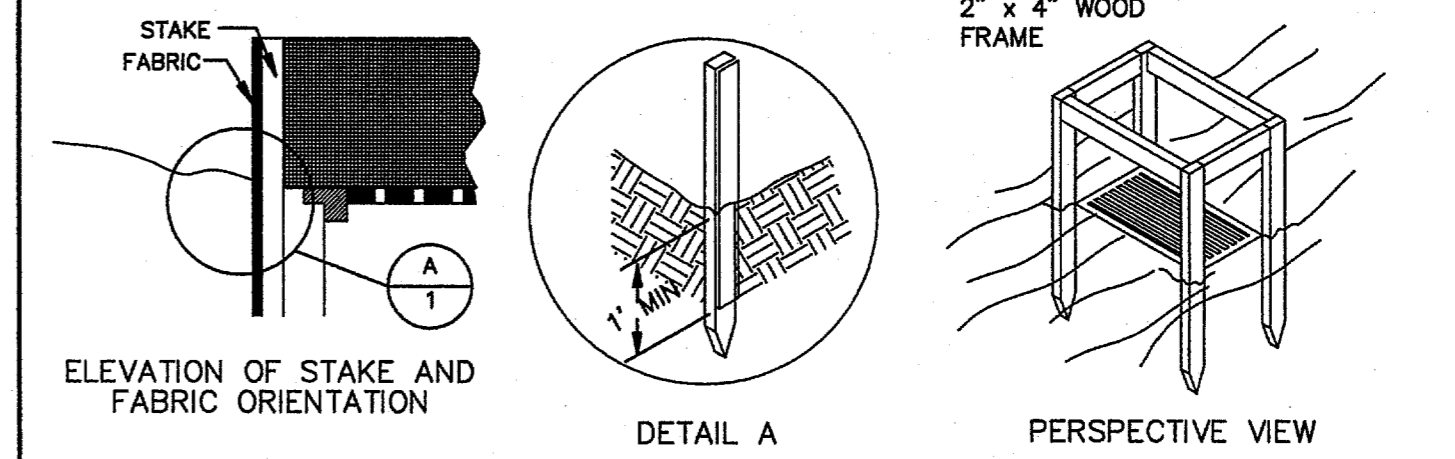
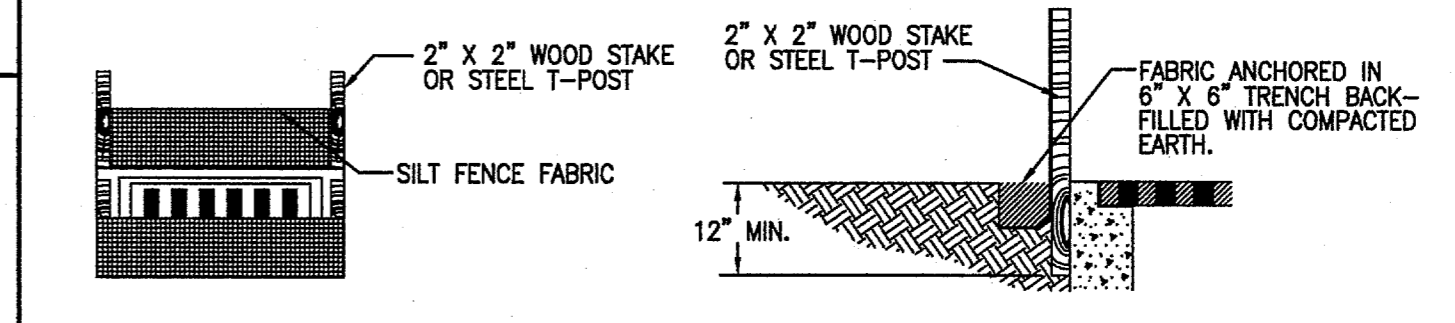
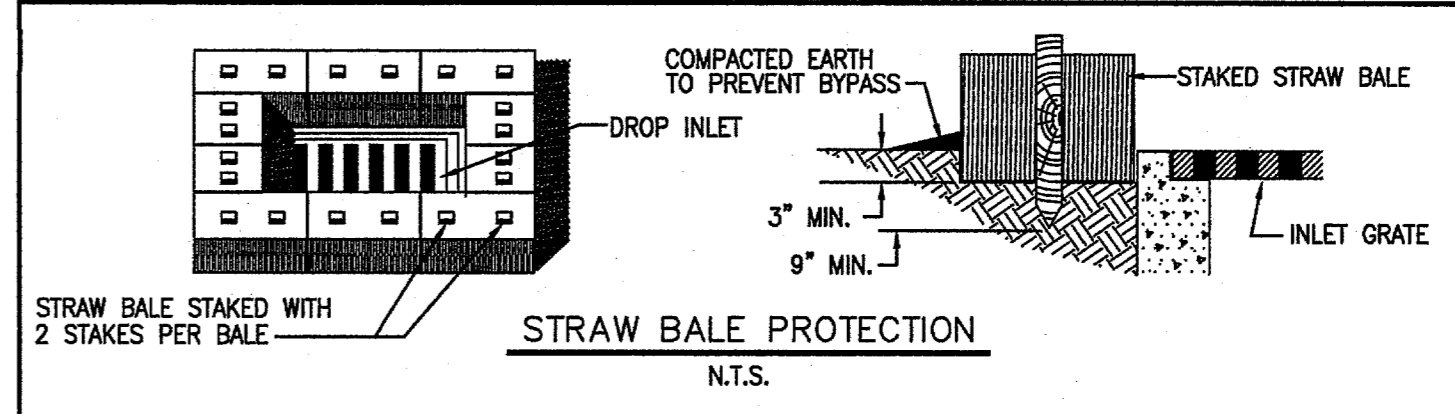
PROJECT MANAGER
 NUJ
 PROJECT TECHNICIAN
 CAB
 JOB NUMBER
 2006.018
 SHEET NUMBER



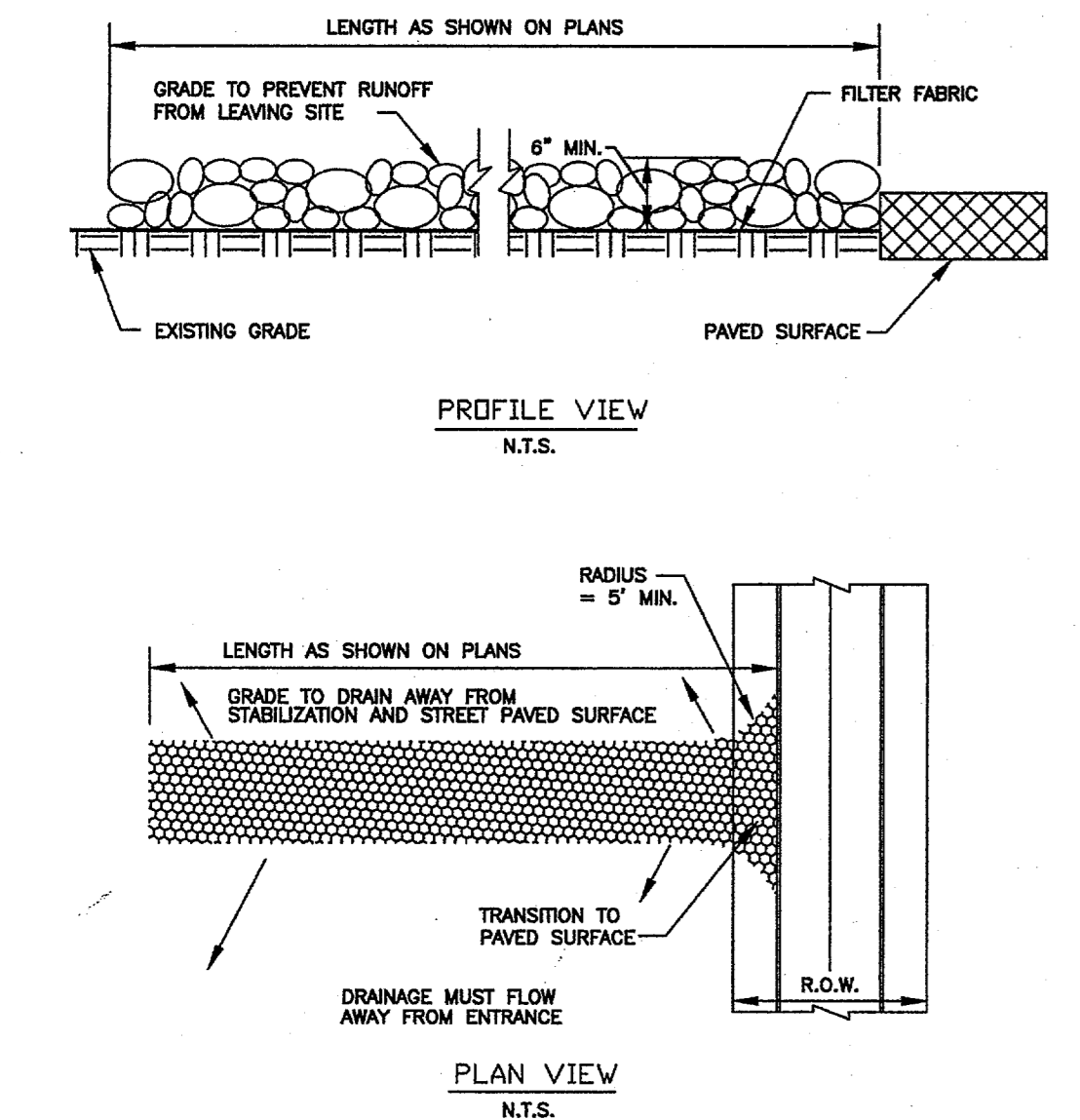
- SILT FENCE GENERAL NOTES:**
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
 3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
 5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



- TRIANGULAR SEDIMENT FILTER DIKE GENERAL NOTES:**
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
 2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE, AND FABRIC SHALL BE OVERLAPPED A MINIMUM OF 12".
 3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF TYPE 'A' RIP RAP, OR TOED-IN 6" WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED TO A DEPTH OF 4 INCHES.
 4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES AND SKIRTS.
 5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6" TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
 6. THE DIKE STRUCTURE SHALL BE 6 GA. 6" X 6" WIRE MESH, 18" ON A SIDE.
 7. INSPECTION SHALL BE MADE EVERY TWO WEEKS OR AFTER EACH 1/2" RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
 8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE DIKE, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
 9. AFTER THE DISTURBED AREAS OF THE SITE ARE COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN NO. 8 ABOVE.



INLET PROTECTION
 FILTER BARRIER



- STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:**
1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
 2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
 3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
 4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS OR AS SHOWN ON PLANS.
 5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
 6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
 7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

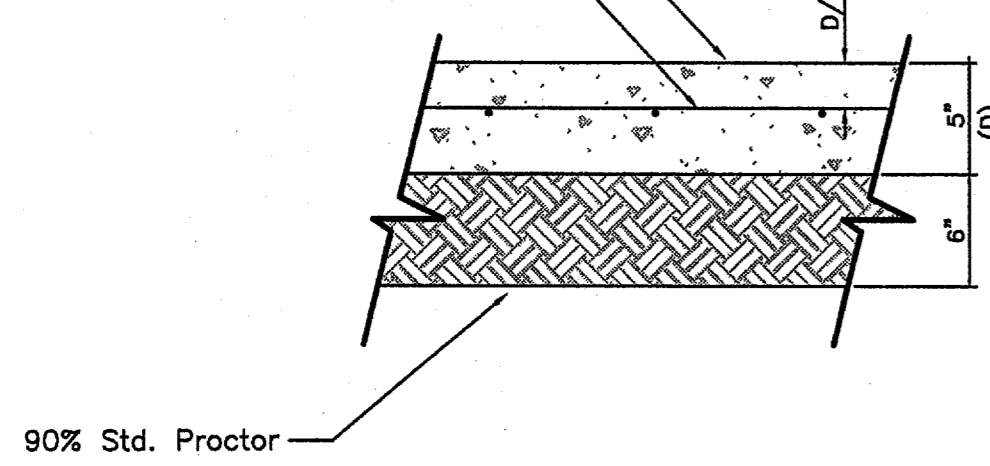
STABILIZED CONSTRUCTION
 ENTRANCE

TRIANGULAR SEDIMENT FILTER DIKE

INLET PROTECTION
 FILTER BARRIER

EROSION CONTROL
 DETAILS

PORTLAND CEMENT CONCRETE PAVING
(3000 PSI AT 28 DAYS)
(REFER TO SITWORK SPECIFICATIONS)
NO. 3 BARS @ 24" O.C.E.W.



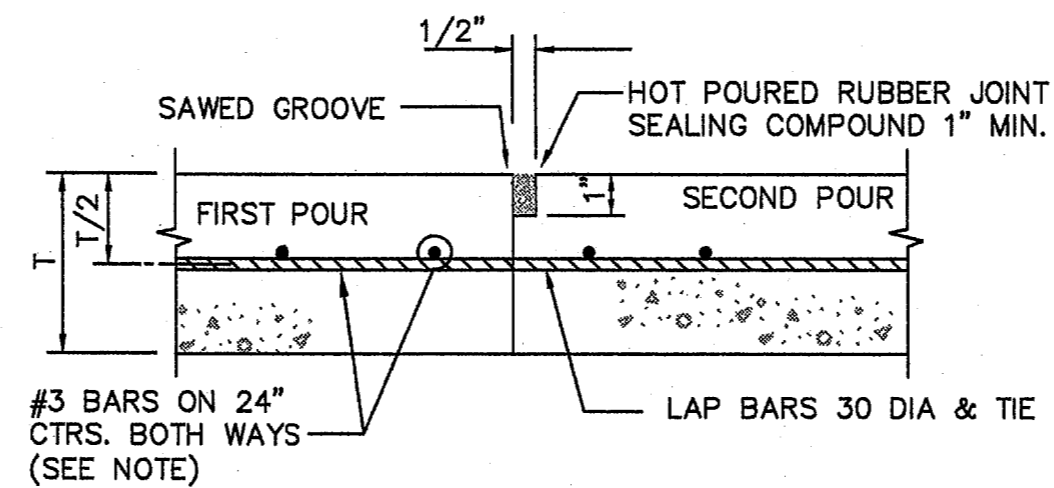
CONCRETE PAVEMENT (DRIVEWAYS)

PORTLAND CEMENT
CONCRETE PAVEMENT SECTIONS

NOTES:

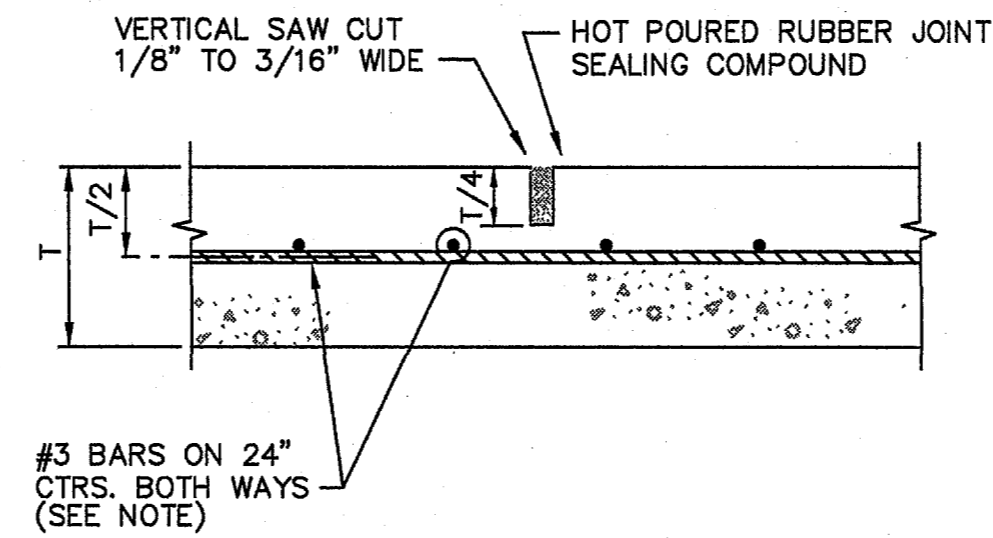
- 1) THE EXPOSED SURFACE OF THE SOILS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND MIXED WITH AN ESTIMATED 10 PERCENT HYDRATED LIME, CURE FOR 48 HOURS, THEN BE REMIXED. THE RESULTING MIXTURE SHOULD THEN BE BROUGHT TO NEAR OPTIMUM (OPTIMUM TO PLUS 3 PERCENTAGE POINTS) MOISTURE CONDITION AND UNIFORMLY COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR (ASTM D-698) DENSITY. THE COMPACTED MATERIAL SHOULD THEN BE COVERED IMMEDIATELY WITH THE PAVING OR KEPT MOIST UNTIL THE PAVING IS PLACED.
- 2) ANY ON SITE FILL SHALL BE PLACED IN SUBSEQUENT LIFTS IN THIN LAYERS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS TO THE DESIRED ROUGH GRADE AND COMPACT EACH LIFT TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR (ASTM D-698) DENSITY. MAINTAIN MOISTURE WITHIN TWO PERCENT BELOW TO FOUR PERCENT ABOVE THEORETICAL OPTIMUM.
- 3) THE PORTLAND CEMENT CONCRETE SHALL BE AIR ENTRAINED TO RESULT IN 4-6% AIR AND SHALL POSSESS A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS FOR REGULAR AND HEAVY DUTY.
- 4) CRACK CONTROL JOINTS SHALL BE PLACED AT 15' CENTER TO CENTER (MAX.)
- 5) REINFORCEMENT SHALL BE #3 BARS 18" O.C.E.W.

REINFORCED CONCRETE PAVEMENT



CONSTRUCTION JOINT

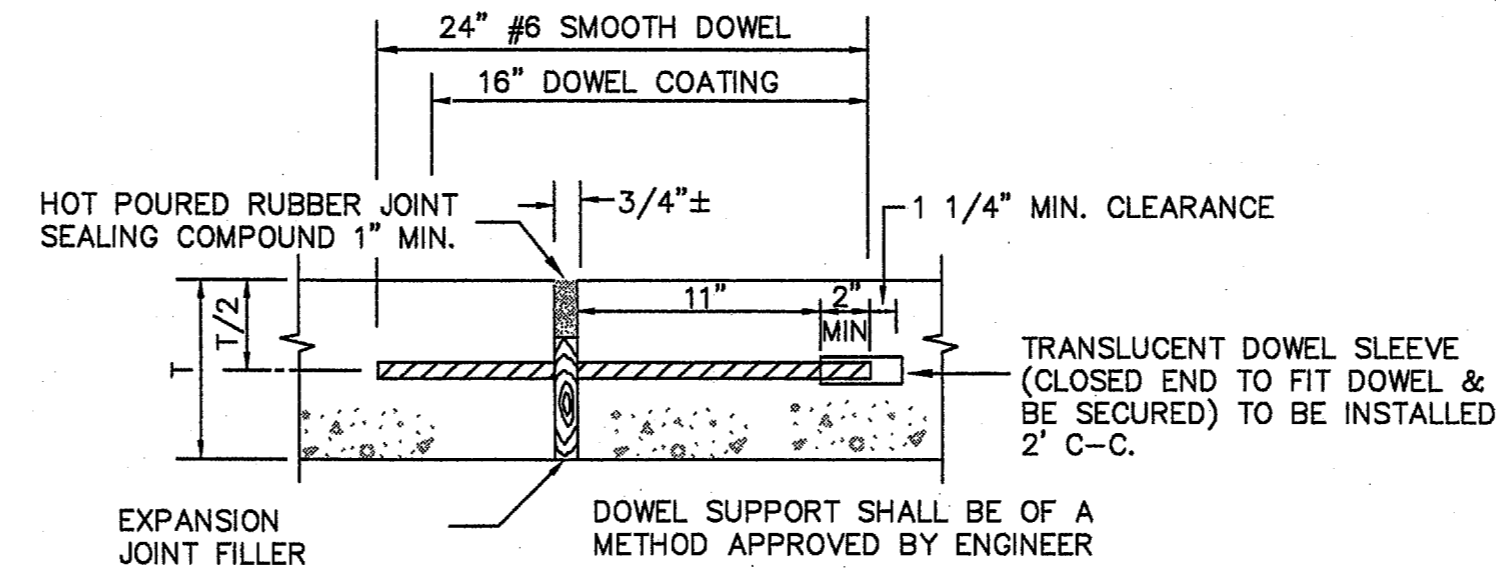
N.T.S.



SAWED CONTRACTION JOINT

N.T.S.

NOTE:
ALTERNATE REINFORCEMENT
#4 BARS ON 30" CTRS.
BOTH WAYS.

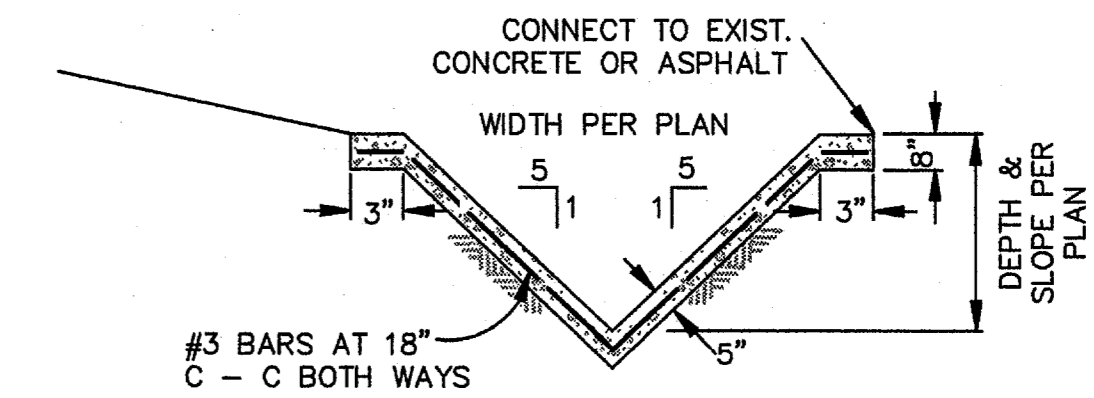


EXPANSION JOINT

(SPACED 600 FT. MAXIMUM; LOCATE AT
STRUCTURES AND AT INTERSECTION P.C.'S & P.T.'S)
N.T.S.

REINFORCED CONCRETE PAVEMENT

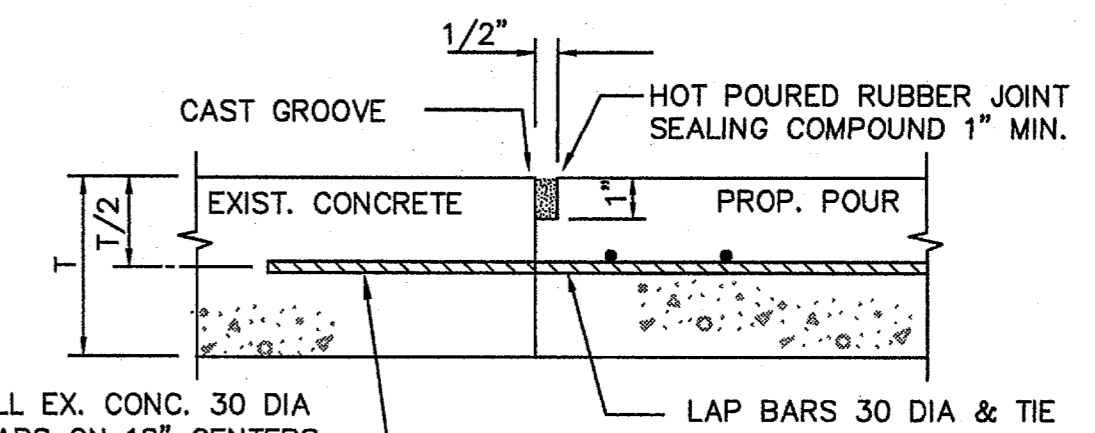
JOINTS



CONCRETE V-CHANNEL

N.T.S.

NOTE:
CONCRETE
SHALL BE
CLASS "A".



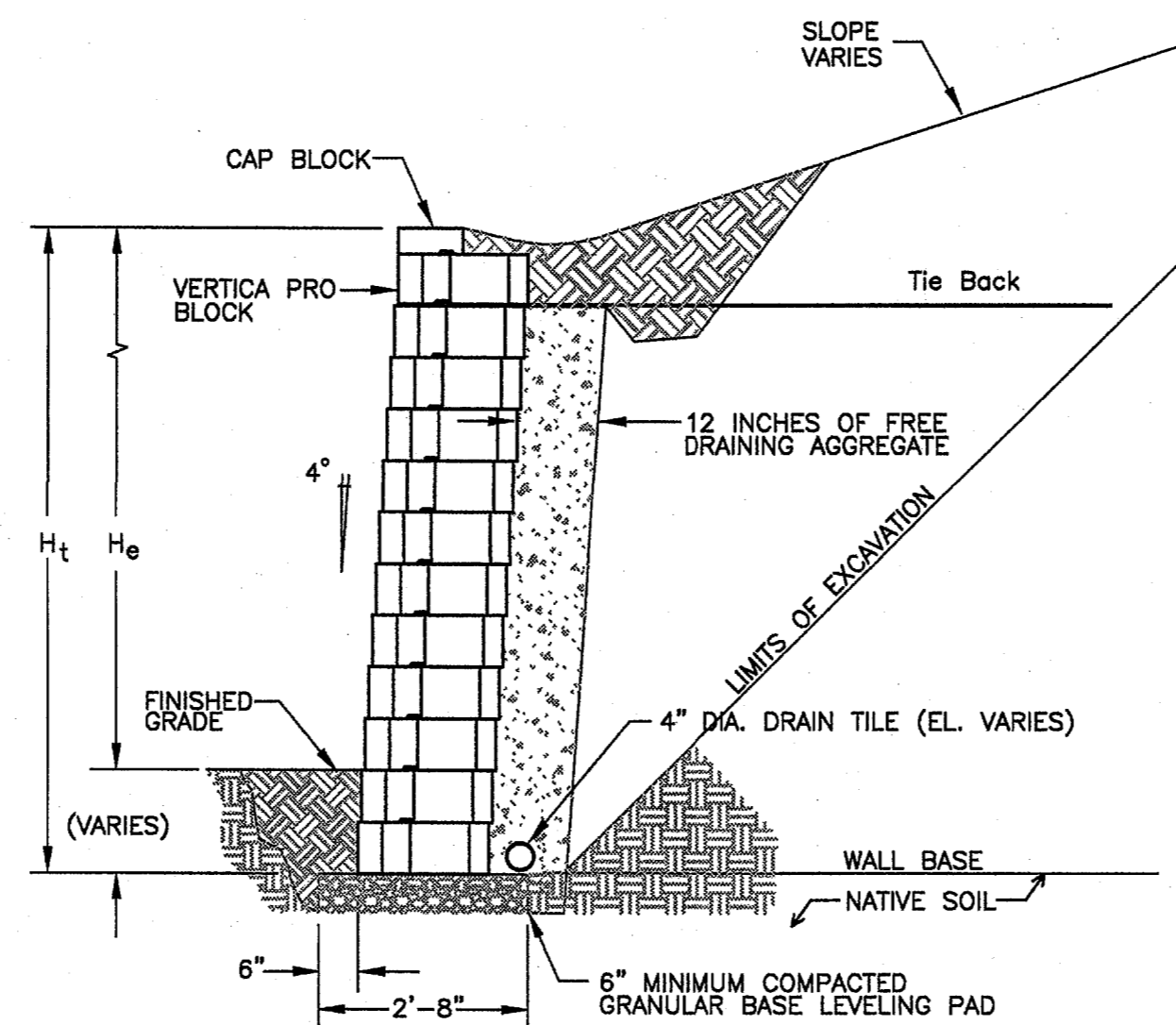
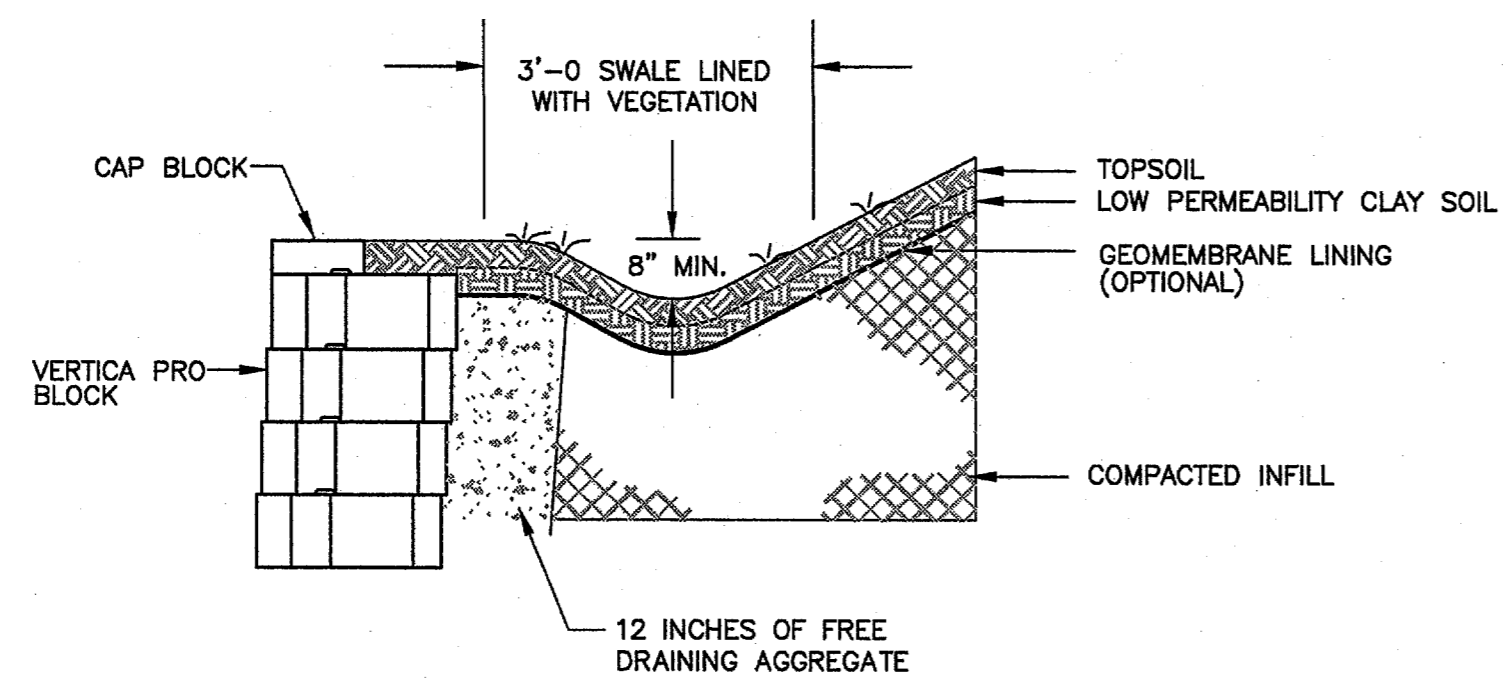
CONSTRUCTION JOINT FOR CONNECTION

TO EXISTING CONCRETE

CORE-DRILL EX. CONC. 30 DIA
FOR #3 BARS ON 18" CENTERS
SET IN PLACE WITH NON-SHRINK
GROUT

RETAINING WALL TO BE ANCHOR VERTICA PRO
OR APPROVED EQUAL

NO REINFORCEMENT REQUIRED FOR
WALLS NOT EXCEEDING 4 FEET.



RETAINING WALL

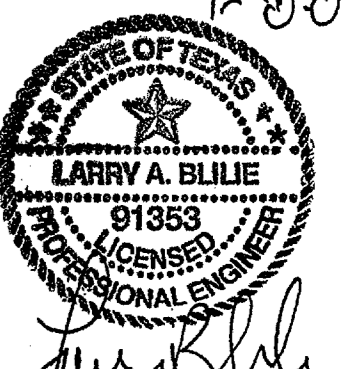
(NOT TO SCALE)

REVISIONS	DATE

LARRY BLILIE P.E.
OLSON LAND DEVELOPMENT SERVICES
999 CR 108
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PH. 940.595.0528

CONTACT: NATHAN OLSON

LOT 1B, MILLIKEN ADDITION
VICTOR MEYERS CUSTOM HOMES, LLC
(OWNER LOT 1B) MICHAEL & RACHEL HARDIN



PROJECT MANAGER
NJO
PROJECT TECHNICIAN
CAB
JOB NUMBER
2006.018
SHEET NUMBER

7.1