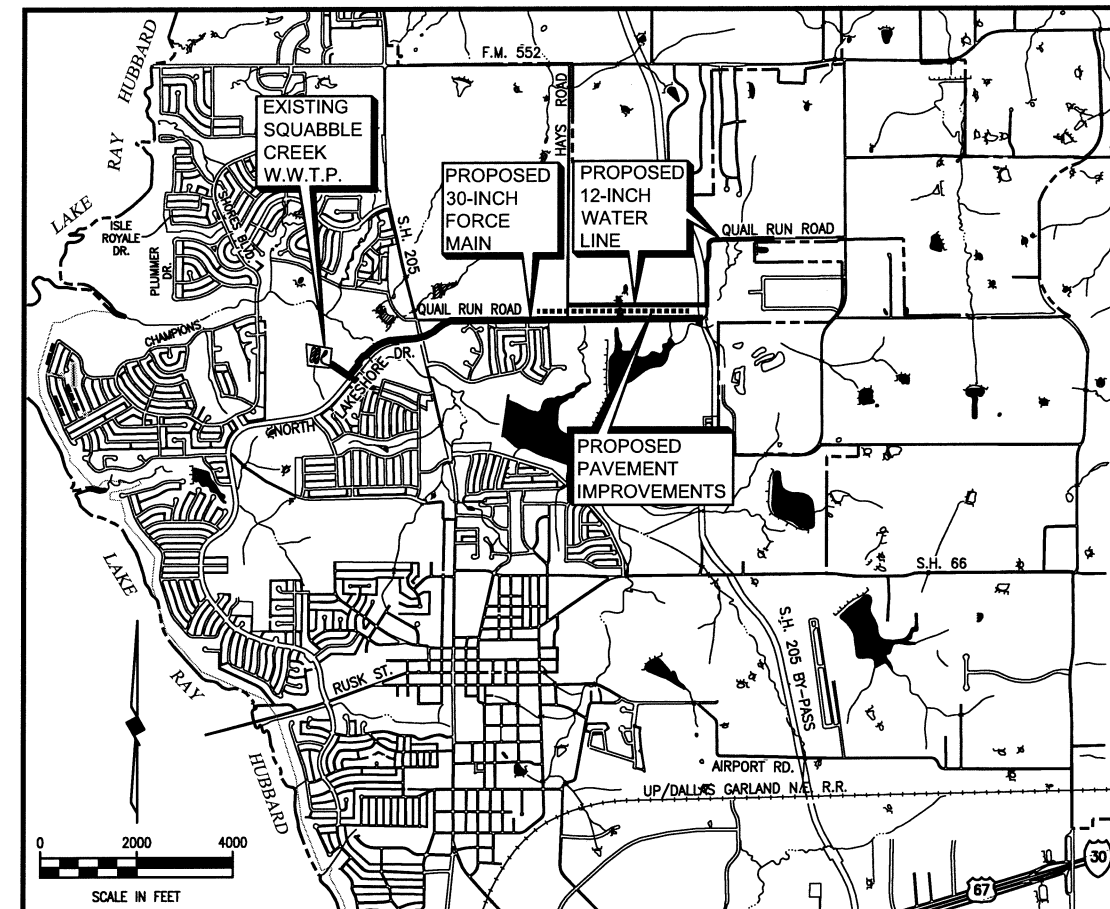


CITY OF ROCKWALL, TEXAS

CONSTRUCTION PLANS FOR SQUABBLE CREEK TO BUFFALO CREEK WASTEWATER TRANSFER SECTION II:

SQUABBLE CREEK FORCE MAIN, QUAIL RUN ROAD WATER LINE & QUAIL RUN ROAD PAVING IMPROVEMENTS



LOCATION MAP

COUNCIL MEMBERS

- BILL CECIL, MAYOR
- CLIFF SEVIER, MAYOR PRO-TEM
- MATT SCOTT
- DAVID SWEET
- GLEN FARRIS
- MARK RUSSO
- MARGO NIELSEN

CITY MANAGER

JULIE COUCH

ASSISTANT CITY MANAGER

RICHARD CROWLEY

CITY ENGINEER

CHUCK TODD, P.E.



BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS

Texas Firm F526
Dallas, Texas

July 2009



[Signature]
7/29/09

SHEET INDEX

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
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2	GENERAL NOTES
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20-29A	QUAIL RUN ROAD WATER LINE
30-37	QUAIL RUN ROAD PAVING
38-46	CROSS SECTIONS
47-48	NOTES & DETAILS

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BY PAC DATE 4/7/2011

LEGEND OF SYMBOLS

	ASPHALT PAVEMENT (H.M.A.C.)
	RIGHT OF WAY, PROPERTY, PROPOSED EASEMENT OR SUB-DIVISION LINE
	PERMANENT EASEMENT
	SLOPE OR TOP BANK
	CREEK OR DITCH
	BURIED TELEPHONE CABLE
	TREES, BUSH OR BRUSH
	BARBED WIRE FENCE
	PIPE RAIL FENCE
	WOOD FENCE
	WROUGHT IRON FENCE
	CHAIN LINK FENCE

EXISTING UTILITY OWNERS

NORTH TEXAS MUNICIPAL WATER DISTRICT	DAVID HARTLESS	(972) 442-5405	
CITY OF ROCKWALL ENGINEERING	CHUCK TODD	(972) 771-7746	CITY ENGINEER
CITY OF ROCKWALL UTILITY LOCATES	-	(972) 771-7730	
MT. ZION WSC	DWIGHT LINDOP	(972) 670-9091	
COMCAST	-	(800) 252-1133	
SOUTHWESTERN BELL TELEPHONE	-	(800) 395-0440 (800) 545-6005	
TCI CABLE	-	(214) 328 5000	
TEXAS ONE CALL SYSTEM	-	(800) 245-4545	
TEXAS EXCAVATION SAFETY SYSTEM	-	(800) 344-8377	
ONCOR	RICHARD BREWSTER	(214) 486-4245	
ATMOS ENERGY	LINE LOCATE EMERGENCY BEN CURTIS RONNEY LINTON	(800) 344-8377 (800) 817-8090 (800) 344-8377 (469) 261-2023	PROJECT MANAGER
LEVEL 3 FIBER OPTIC	-	(877) 366-8344	
METRO MEDIA FIBER OPTIC	-	(972) 771-7746	DIG/EMERGENCY

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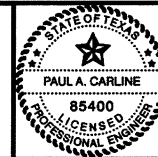
BY PAC DATE 4/7/2011

GENERAL PROJECT NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE MEASURES FOR PREVENTING STORM WATER RUNOFF FROM ENTERING THE TRENCH DURING CONSTRUCTION.
- CONTRACTOR SHALL SECURE EXCAVATION AT THE END OF EACH DAY. THE OWNER MAY REQUIRE THAT NO TRENCHES BE LEFT OPEN OVERNIGHT IN STREETS OR POPULATED AREAS.
- TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 12 INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4 INCHES.
- FINISHED GROUND SHALL HAVE NO MORE ROCKS OVER 1 INCH THAN SURROUNDING UNDISTURBED GROUND.
- RESTORE GROUND TO ORIGINAL GRADE AND PREVENT PONDING OF STORM WATER RUNOFF ON ALL GROUND DISTURBED BY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF ALL POWER AND TELEPHONE POLES AND GUY WIRES WITHIN 15 FEET OF PROPOSED PIPELINE AND SHALL REPAIR DAMAGED POLES AND GUY WIRES OR RELOCATE POLES AND GUY WIRES AS REQUIRED BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR MUST CONTACT & COORDINATE ALL WORK AND FEES W/ UTILITY OWNER AT NO ADDITIONAL COST TO OWNER.
- TRIMMING OF TREES SHALL BE ACCOMPLISHED USING A SAW OR PRUNING SHEARS. ALL CUT LIMBS OVER 1 INCH IN DIAMETER SHALL BE PAINTED WITH TREE WOUND PAINT IMMEDIATELY AFTER TREE TRIMMING.
- CONTRACTOR SHALL REPLACE ANY TREES REMOVED OR DESTROYED WITHOUT THE OWNER'S PERMISSION OR SHALL PAY FAIR MARKET VALUE (AS DETERMINED BY THE OWNER) TO THE OWNER.
- ANY FENCES DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE SAME LOCATION WITH A FENCE OF EQUAL OR SUPERIOR QUALITY.
- TEMPORARY FENCING SHALL BE REQUIRED WHERE INDICATED ON THE DRAWINGS, WHERE THERE IS LIVESTOCK, AND WHERE DAMAGED OR REMOVED FENCES ARE NOT TO BE REPLACED BY END OF SAME WORK DAY, OR AS DIRECTED BY OWNER. CONTRACTOR TO VERIFY PRESENCE OF LIVESTOCK WITH LANDOWNER PRIOR TO ENTERING PROPERTY.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ORDERING PIPE AND SUFFICIENTLY IN ADVANCE OF THE CONSTRUCTION SO THAT IF IT IS NECESSARY TO CHANGE OR MOVE THE UTILITY, THE PROGRESS OF THE WORK WILL NOT BE DELAYED, & ALL COSTS INCURRED FOR UTILITY CONFLICTS WILL BE AT NO ADDITIONAL COST.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICE LINES CROSSED OR EXPOSED BY HIS CONSTRUCTION OPERATIONS. WHERE EXISTING SERVICE LINES ARE CUT, BROKEN OR DAMAGED THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SERVICE LINES IN KIND WITH LIKE OR BETTER MATERIALS.
- CONTRACTOR SHALL PROVIDE A STORM WATER POLLUTION PREVENTION PLAN AND PROVIDE ALL APPURTENANCES TO COMPLY WITH THE LATEST TCEQ STORM WATER POLLUTION PREVENTION REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT (NOI) AT THE START OF CONSTRUCTION WITH THE TCEQ AND A NOTICE OF TERMINATION (NOT) AT THE END, ALSO WITH THE TCEQ.
- CONTRACTOR SHALL PROVIDE ADEQUATE MEASURES FOR DEWATERING AS NECESSARY.
- CONTRACTOR SHALL REMOVE FENCES AS REQUIRED FOR CONSTRUCTION. BARBED WIRE, WROUGHT IRON AND CHAIN LINK FENCES SHALL BE REPLACED OR RECONSTRUCTED. NEW MATERIALS SHALL MATCH EXISTING FENCES. ALL WOOD FENCES SHALL BE REPLACED WITH NEW CEDAR WITH THE POSTS MATCHING THE EXISTING POSTS. ANY FENCING REMOVED SHALL BE REPLACED IN KIND WITH LIKE OR BETTER MATERIALS, AND BE PAINTED OR STAINED TO MATCH EXISTING FENCE.
- CONTRACTOR SHALL PROTECT ALL UNDERGROUND IRRIGATION SYSTEMS (KNOWN AND UNKNOWN). ALL DAMAGE SHALL BE REPAIRED BY IRRIGATOR LICENSED IN THE STATE OF TEXAS.
- CONTRACTOR SHALL SUBMIT A WRITTEN PLAN AND SCHEDULE 14 DAYS IN ADVANCE OF CONSTRUCTION ACTIVITIES REQUIRING REPLACEMENT OR SUPPORT OF EXISTING SANITARY SEWER PIPE, WATER PIPE OR STORM DRAIN PIPE. THE PLAN SHALL DESCRIBE IN DETAIL THE METHOD FOR REPLACING OR SUPPORTING EXISTING PIPE AND ASSOCIATED SCHEDULE.
- CONTRACTOR SHALL PROVIDE THE OWNER AS-BUILT ELEVATIONS OF MANHOLE COVERS AND ELEVATION OR HEIGHT TO GRADE RINGS.
- FOLLOWING INSTALLATION OF PIPELINE ACROSS WATERWAYS, WATERWAY BOTTOM AND BANKS SHALL BE RESTORED TO THEIR ORIGINAL CONFIGURATION AND REVEGETATED, UNLESS NOTED IN PLANS.
- THE CONTRACTOR SHALL EMPLOY ADEQUATE METHODS TO MINIMIZE TURBIDITY IN WATERWAYS DURING ALL PHASES OF THE PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS CONCERNING WATER POLLUTION AND CONTROL OF EROSION.
- CONTRACTOR SHALL CLEAN THE RIGHT-OF-WAY OF ANY AND ALL TRASH.
- NO FIRES WILL BE ALLOWED. BRUSH AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE.
- ANY EXISTING UTILITY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IMMEDIATELY WITH LIKE OR BETTER MATERIALS.
- CONTRACTOR SHALL NOT DAMAGE EXISTING TREES LARGER THAN 3 INCHES IN DIAMETER (MEASURED 4 FT. ABOVE THE GROUND) THAT ARE MORE THAN TWELVE FEET FROM CENTERLINE OF NEW SANITARY SEWER. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE BEFORE ANY TREES MORE THAN 10-FT FROM CENTERLINE OF PIPELINE CAN BE REMOVED OR TRIMMED.
- CONTRACTOR SHALL BE REQUIRED TO INSTALL TEMPORARY TEST PLUGS FOR HYDROSTATIC TESTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR, AT HIS DISCRETION, MAY TUNNEL UNDER EXISTING UTILITIES OR ROADWAYS OTHER THAN THOSE CROSSINGS SPECIFICALLY SHOWN ON THE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER.
- IT SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO REBUILD THE CONCRETE OR ASPHALT PAVEMENT REPLACEMENT SECTIONS TO THE SAME LINE AND GRADE AS WAS EXISTING PRIOR TO PIPELINE CONSTRUCTION.
- ALL NEW TREES REQUESTED BY THE OWNER SHALL BE PLANTED BY A NURSERYMAN LICENSED IN THE STATE OF TEXAS.
- SURVEY POINTS INDICATED AS "CONTROL POINT" (IRON ROD SETS, "X" IN CONC, AND 60D NAILS POINT") SHALL BE USED FOR HORIZONTAL AND VERTICAL SURVEY CONTROL FOR THE PROJECT.
- THE CONTRACTOR SHALL RESTORE AT HIS OWN EXPENSE, TEMPORARY ROADS AND CONSTRUCTION WORK AREAS.
- IN ACCORDANCE WITH TEXAS STATE LAW, AT LEAST 2 DAYS PRIOR TO BEGINNING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING A TEXAS REGISTERED NOTIFICATION CENTER (I.E. TEXAS ONE CALL, DIG TESS, ETC.). IN ORDER TO HAVE EXISTING UTILITIES LOCATED. DIGTESS: 1-800-344-8377.
- BLASTING WILL NOT BE ALLOWED.
- CONTRACTOR SHALL STAKE BOTH PERMANENT AND TEMPORARY EASEMENTS PRIOR TO CONSTRUCTION. CONSTRUCTION SURVEYING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO LIMITS OF PERMANENT EASEMENT, TEMPORARY EASEMENT, CENTERLINE, ETC. THE CONTRACTOR SHALL VERIFY ALL CONTROL MONUMENTATION PRIOR TO BEGINNING CONSTRUCTION.
- CLEARING AND GRUBBING MAY BEGIN NO SOONER THAN TWO WEEKS PRIOR TO PIPE TRENCHING OPERATIONS. PIPE STRINGING SHALL BE NO MORE THAN TWO WEEKS PRIOR TO PIPE LAYING. BACKFILL, CLEAN-UP, AND SURFACE RESTORATION SHALL BE COMPLETED NO MORE THAN TWO WEEKS AFTER PIPE LAYING AND NO MORE THAN 500 FEET FROM PIPE LAYING OPERATIONS. THE SITE SHALL BE KEPT CLEAN OF TRASH AT ALL TIMES. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN WITHHOLDING SOME OR ALL PAYMENT TO THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON ALL ROADS AT ALL TIMES, AND CONSTRUCT TEMPORARY BYPASS, IF NECESSARY, IF THE ROADWAY MUST BE CLOSED TO FACILITATE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER AND THE RIGHT-OF-WAY OWNER FOR THE ROADWAY FOR APPROVAL NO LESS THAN 14 DAYS IN ADVANCE OF THE PROPOSED ROADWAY CLOSURE. ANY COMMENTS RECEIVED ON THE PLAN BY THE OWNER OR RIGHT-OF WAY OWNER SHALL BE INCORPORATED INTO THE PLAN. THE PLAN SHALL BE PREPARED SPECIFICALLY FOR THIS PROJECT AND SHALL BE SEALED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS. THE COST TO PREPARE THE TRAFFIC CONTROL PLAN, WHEN REQUIRED, SHALL BE MADE INCIDENTAL TO THE PROJECT. IF AT ANYTIME DURING CONSTRUCTION THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR THE SAFE, COMFORTABLE MOVEMENT OF TRAFFIC, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATIONS TO CORRECT THE UNSATISFACTORY CONDITIONS.
- CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE, BARRICADES, FLAGMEN, ETC. REQUIRED TO MAINTAIN SAFE TRAFFIC FLOW AT ALL TIMES FOR ANY WORK ACTIVITY ON OR ADJACENT TO ANY CITY, COUNTY OR TXDOT ROADWAY. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH TXDOT'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR'S OPERATIONS MUST STAY WITHIN THE PERMANENT AND TEMPORARY EASEMENTS AND CONTRACTOR'S WORK AREA DESIGNATED ON THE PLAN SHEETS. ANY DAMAGE OUTSIDE THESE OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE. ACCESS ROUTES OR OPERATIONS WHICH FALL OUTSIDE THE DESIGNATED AREAS WILL ONLY BE ALLOWED WITH PRIOR LANDOWNER CONSENT. CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF ANY AGREEMENTS MADE BETWEEN THE LANDOWNER AND THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE TO THE OWNER DOCUMENTING THE CONDITION OF THE PIPELINE ROUTE, INCLUDING THE PERMANENT EASEMENT, TEMPORARY EASEMENT AND SURROUNDING AREA PRIOR TO THE START OF ANY CONSTRUCTION. VIDEO TO BE PROVIDED PRIOR TO FIRST PAYMENT TO CONTRACTOR.
- PROVIDE ACCESS FOR LANDOWNERS AT EXISTING ROADS AND DRIVES AT ALL TIMES.
- WHEN NEW PIPELINE CONSTRUCTION CROSSES UNDER EXISTING PIPELINES, CONTRACTOR SHALL BACKFILL EXISTING PIPELINE WITH CRUSHED CONCRETE FROM TOP OF PIPE ZONE OF NEW PIPELINE TO ONE FOOT ABOVE EXISTING PIPELINE.
- WHERE NEW PIPELINE CROSSES EXISTING SANITARY SEWER PIPE, CONTRACTOR SHALL CENTER ONE JOINT OF NEW PIPE OVER EXISTING SEWER PIPE SUCH THAT ENDS OF THE NEW PIPE JOINT ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE SEWER PIPE.
- WHERE IT IS NECESSARY FOR LANDOWNERS TO MOVE TRAILERS, SHEDS, OR OTHER FACILITIES OR IMPROVEMENTS, OR WHEN THE CONTRACTOR INTENDS TO MOVE SUCH FACILITIES OR IMPROVEMENTS, CONTRACTOR SHALL NOTIFY THE LAND OWNER AND THE OWNER NO LESS THAN 14 DAYS PRIOR TO MOVING THE FACILITIES OR IMPROVEMENTS.
- CONTRACTOR SHALL PROTECT ALL TREES, LANDSCAPING AND STRUCTURES LOCATED WITHIN THE TEMPORARY AND PERMANENT EASEMENTS. TREES, LANDSCAPING AND STRUCTURES NOT INDICATED FOR REMOVAL OR TRANSPLANT ON THE PLANS SHALL NOT BE REMOVED OR TRANSPLANTED WITHOUT RECEIVING WRITTEN APPROVAL FROM THE CITY OF ROCKWALL.
- FORCE MAIN SHALL BE PVC, AWWA C905, DR21 AND SHALL BE GREEN IN COLOR.
- WATERLINES SHALL BE PVC, AWWA C900, DR14.
- CONTRACTOR SHALL PROVIDE ONE LANE OF THRU TRAFFIC ON QUAIL RUN ROAD DURING INSTALLATION OF FORCE MAIN & WATERLINE BETWEEN MEMORIAL DRIVE & JOHN KING BOULEVARD. CONTRACTOR SHALL PROVIDE LOCAL ACCESS ON QUAIL RUN ROAD DURING PAVING OPERATION.

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BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 PROFESSIONAL ENGINEERS
 Texas Firm F526
 11910 Greenville Ave., Suite 600
 Dallas, Texas (214) 361-7900



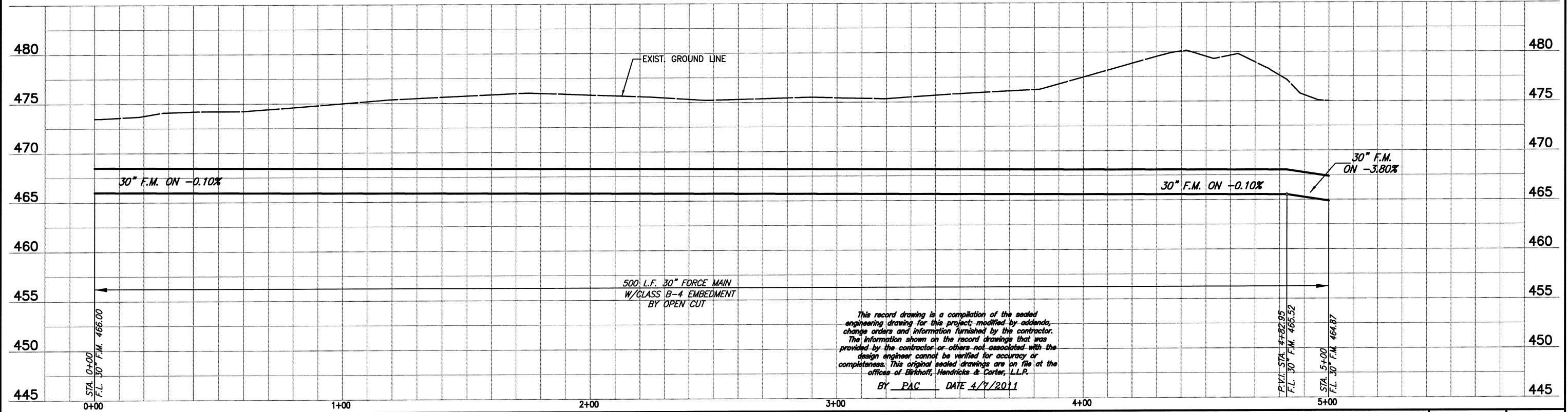
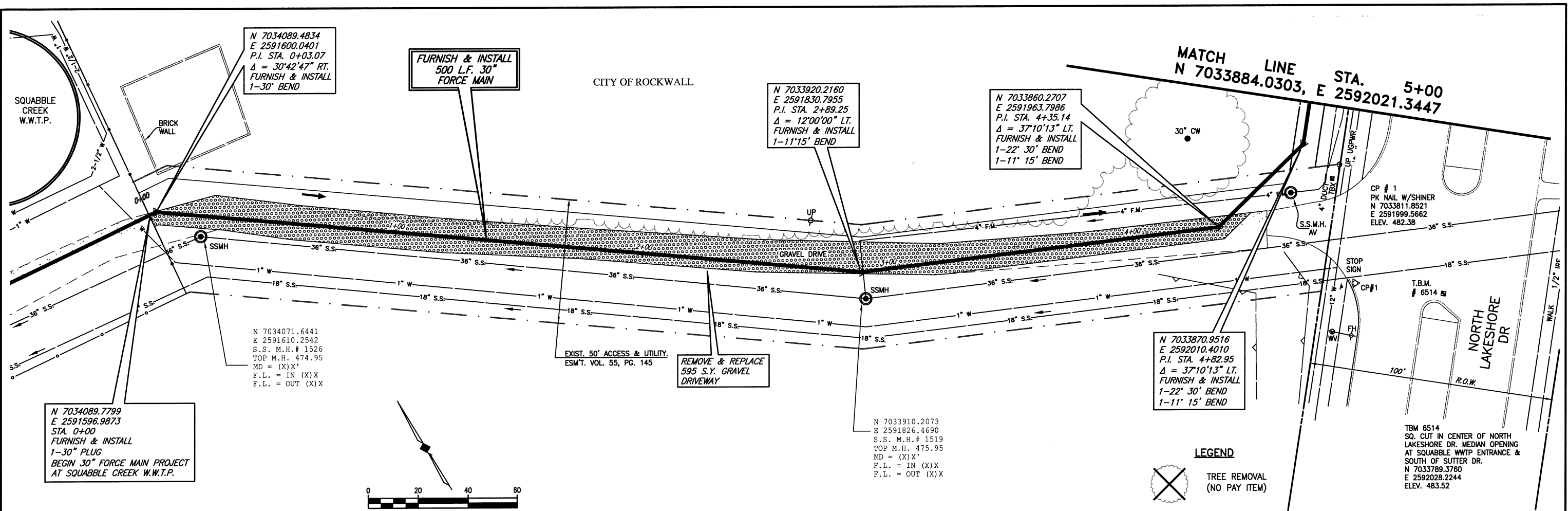
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CITY OF ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 GENERAL NOTES

BHC
 PROJECT NO.
 2007-110
 July 2009

SHEET NO.
2

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 11910 Greenville Ave., Suite 600
 Dallas, Texas 75243 (214) 361-7900



Paul A. Carline
 11/7/09

CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 0+00 TO STA. 5+00

BHC
 PROJECT NO.
 2007-110
 July 2009

SHEET NO.
3

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MATCH LINE STA. 5+00
N 7033884.0303, E 2592021.3447

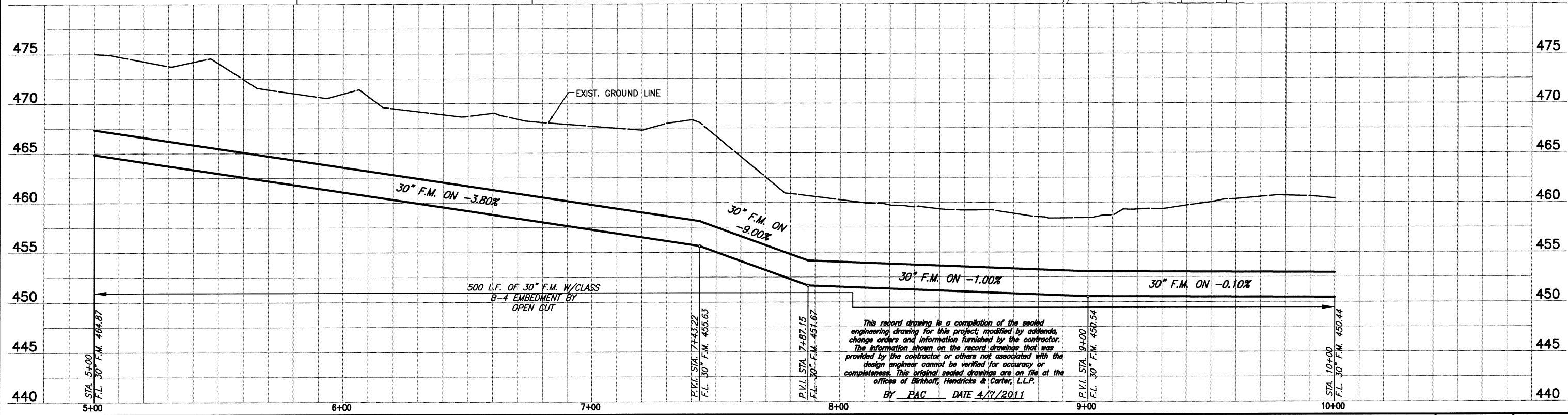
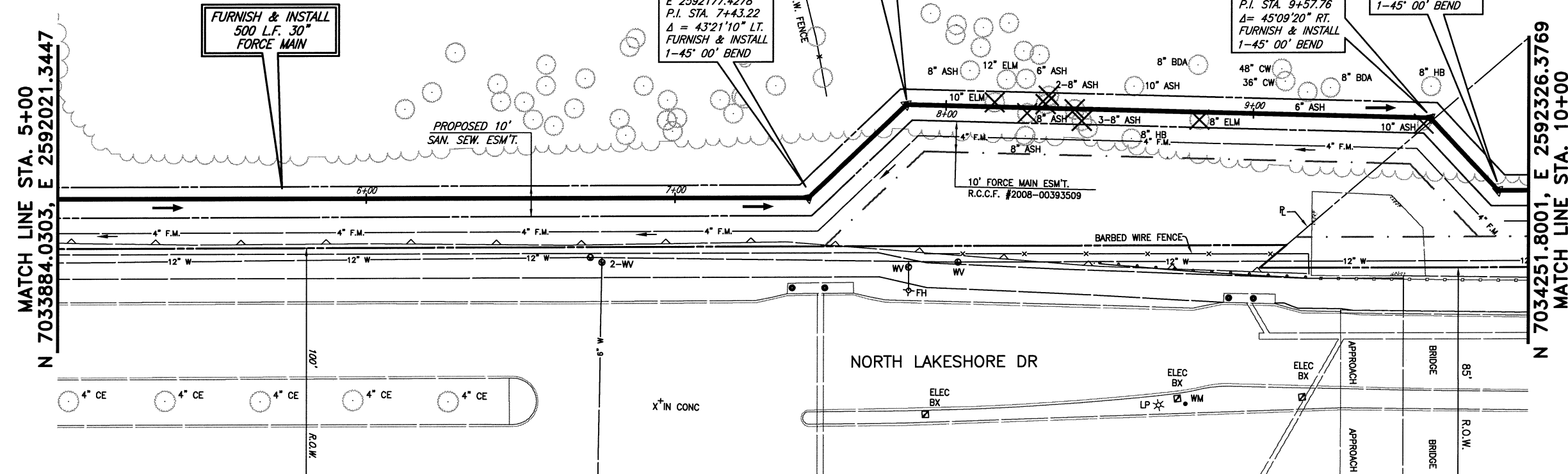
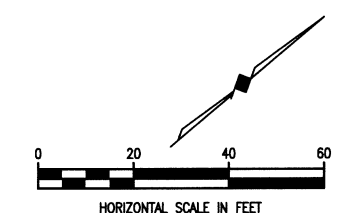
FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN

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E 2592177.4278
P.I. STA. 7+43.22
Δ = 43°21'10" LT.
FURNISH & INSTALL
1-45° 00' BEND

N 7034114.4097
E 2592174.7984
P.I. STA. 7+87.15
Δ = 44°53'21" RT.
FURNISH & INSTALL
1-45° 00' BEND

N 7034242.2791
E 2592287.7584
P.I. STA. 9+57.76
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FURNISH & INSTALL
1-45° 00' BEND

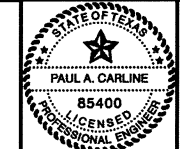
N 7034244.1887
E 2592320.0224
P.I. STA. 9+90.08
Δ = 46°45'21" LT.
FURNISH & INSTALL
1-45° 00' BEND



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BY PAC DATE 4/7/2011

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Dallas, Texas 75243 (214) 361-7900

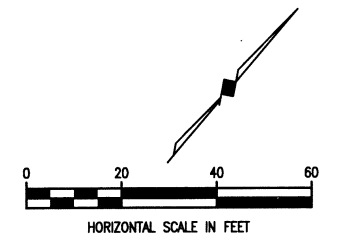
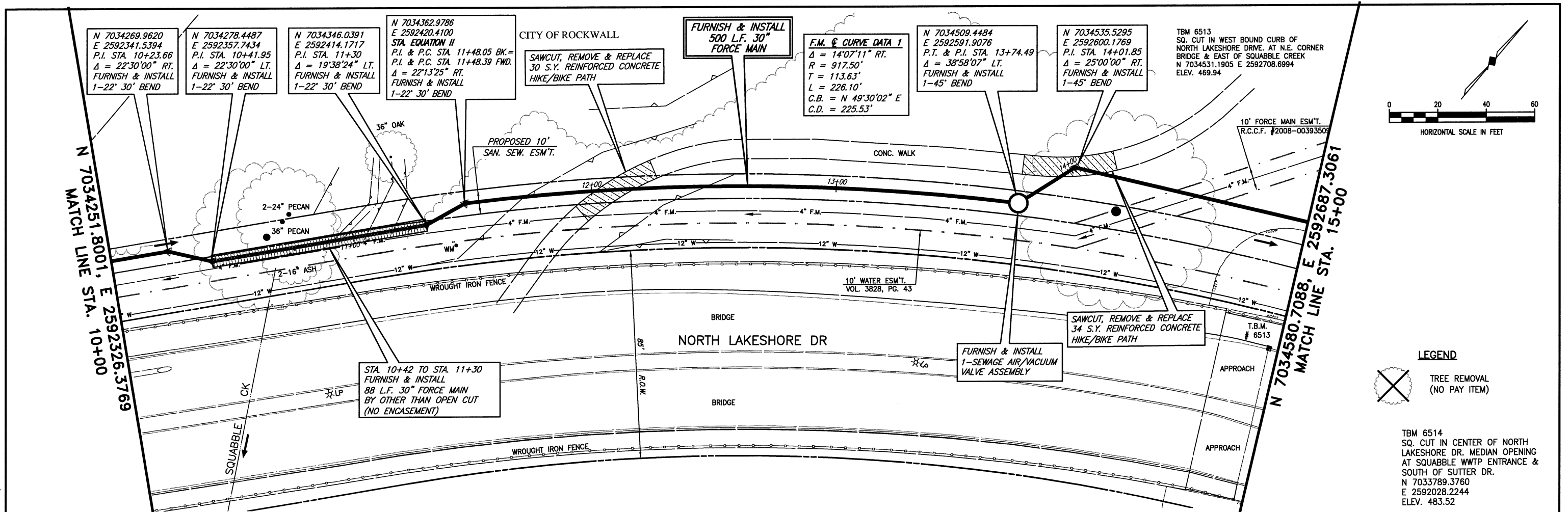


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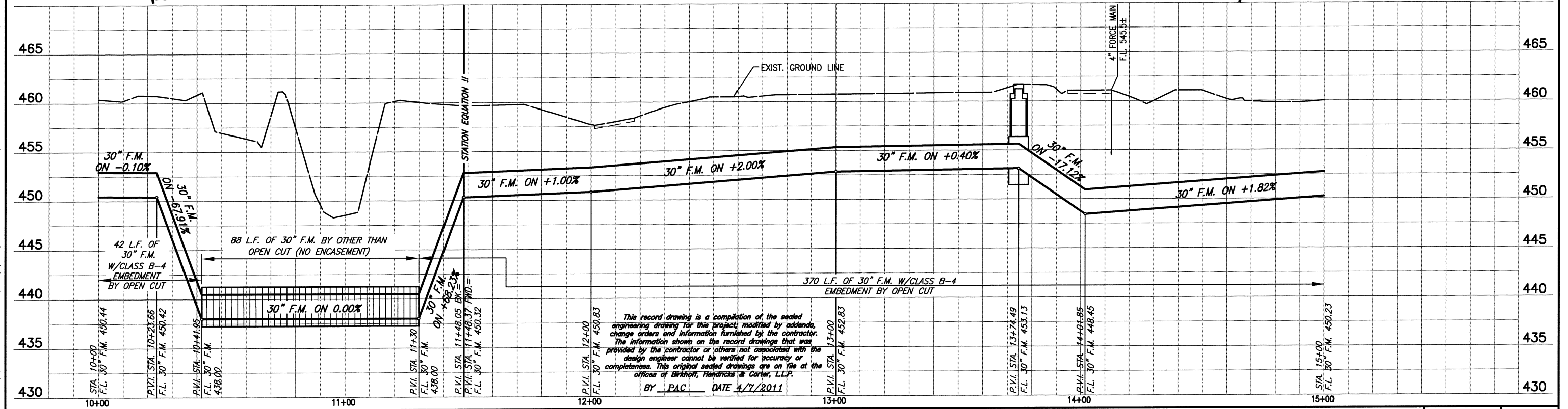
CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 5+00 TO STA. 10+00

BHC
PROJECT NO.
2007-110
July 2009
SHEET NO.
4

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TBM 6514
SQ. CUT IN CENTER OF NORTH LAKESHORE DR. MEDIAN OPENING AT SQUABBLE WWTP ENTRANCE & SOUTH OF SUTTER DR.
N 7033789.3760
E 2592028.2244
ELEV. 483.52



FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

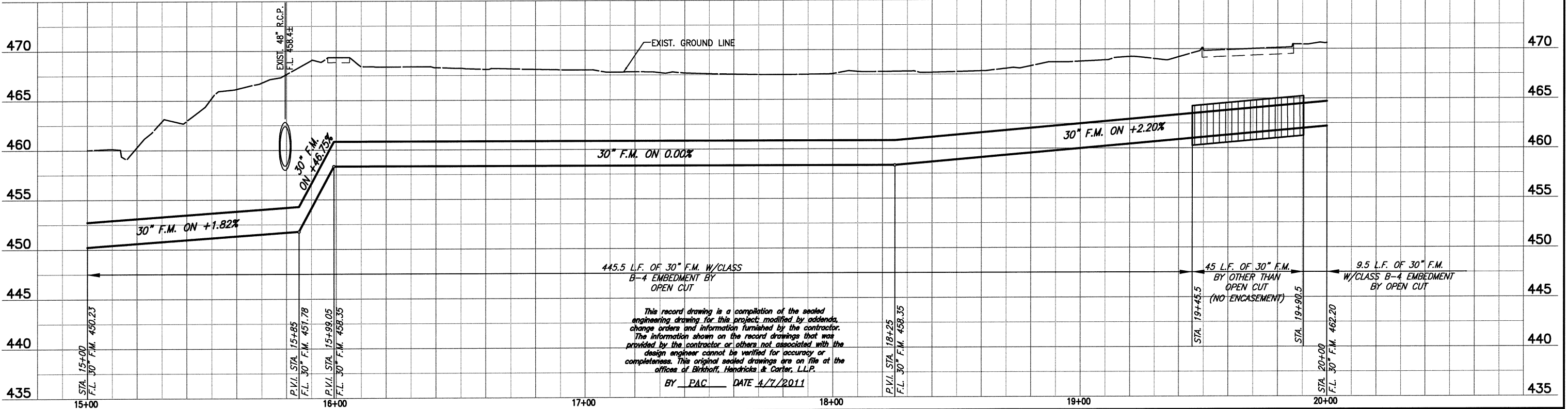
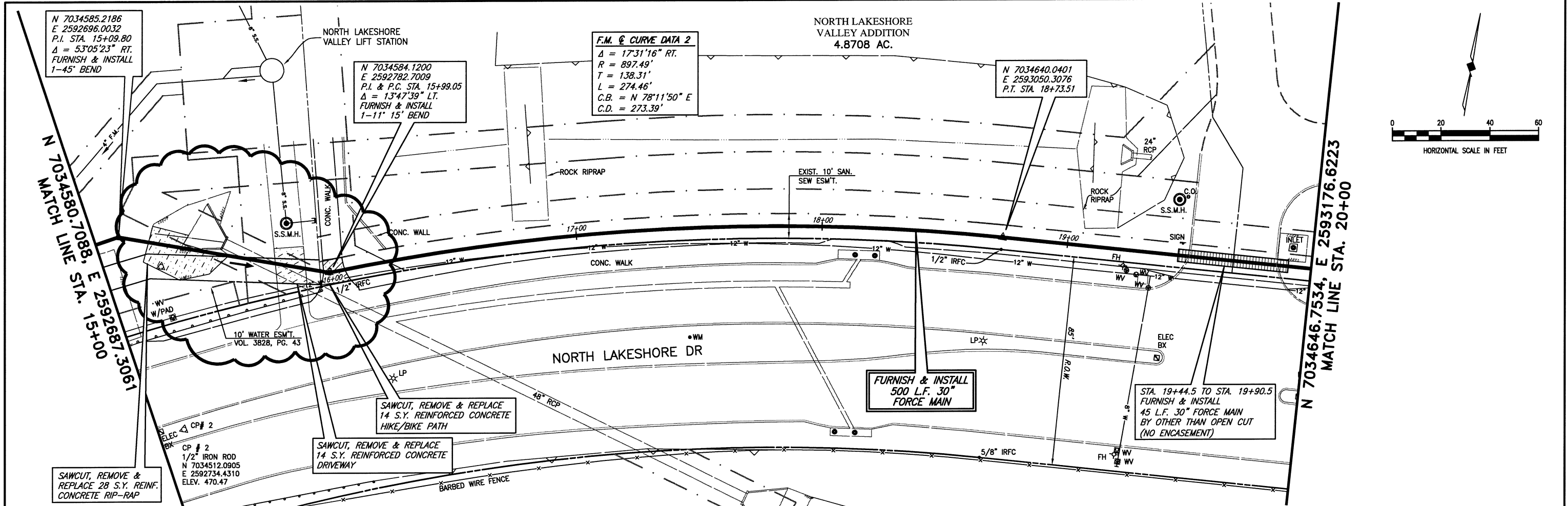
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Dallas, Texas 75243 (214) 361-7900



Paul A. Carline
11/16/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 10+00 TO STA. 15+00

BHC
PROJECT NO.
2007-110
SHEET NO.
5
July 2009



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 11/7/11

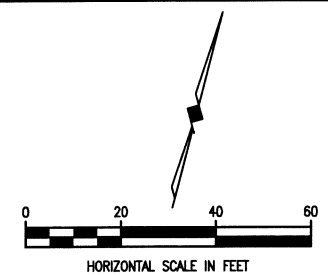
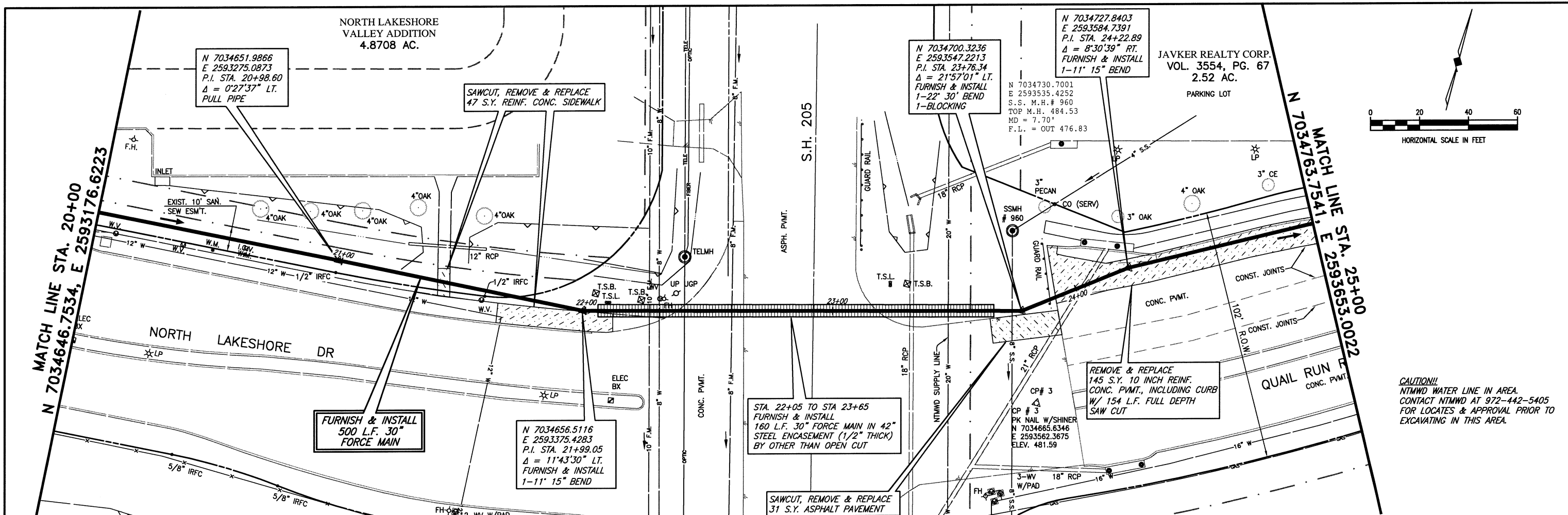
CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 15+00 TO STA. 20+00

BHC
 PROJECT NO.
 2007-110
 July 2009

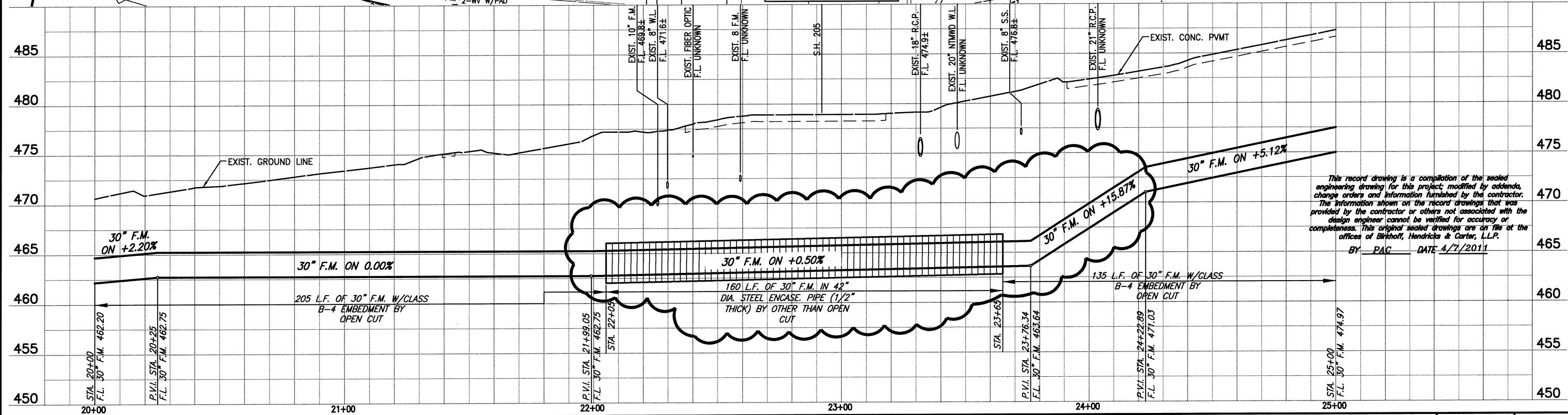
SHEET NO.
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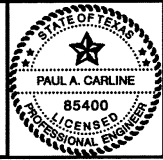
CAUTION!!!
 NTMWD WATER LINE IN AREA.
 CONTACT NTMWD AT 972-442-5405
 FOR LOCATES & APPROVAL PRIOR TO
 EXCAVATING IN THIS AREA.



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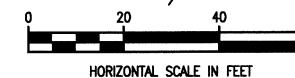
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CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 20+00 TO STA. 25+00

BHC PROJECT NO. 2007-110	SHEET NO. 7
July 2009	

JAVKER REALTY CORP.
VOL. 3554, PG. 67
2.52 AC.

STONE CREEK
BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.



WARNING
GAS LINE IN AREA!
NOTIFY ATMOS ENERGY
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF STA. 26+18±

MATCH LINE STA. 25+00
N 7034763.7541, E 2593653.0022

MATCH LINE STA. 30+00
N 7035035.9861, E 2594069.4335

N 7034790.8437
E 2593704.4987
P.I. STA. 25+58.19
Δ = 09°53'57" LT.
FURNISH & INSTALL
1-11' 15" BEND

FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN

SAWCUT, REMOVE & REPLACE
62 S.Y. 4 INCH REINFORCED
CONCRETE SIDEWALK

N 7034974.9519
E 2593943.1739
P.I. & P.C. STA. 28+59.62
Δ = 07°22'41" RT.
FURNISH & INSTALL
11' 15" BEND

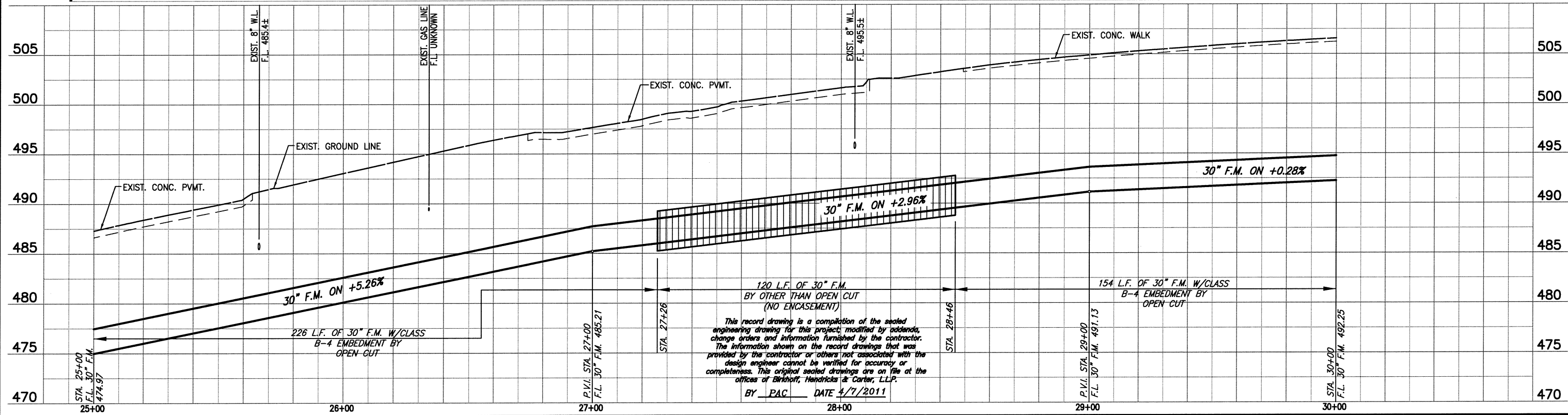
F.M. CURVE DATA 4
Δ = 12°14'46" RT.
R = 900.00'
T = 96.55'
L = 192.36'
C.B. = N 65°51'19" E
C.D. = 191.99'

SAWCUT, REMOVE & REPLACE
242 S.Y. 10 INCH REINF.
CONC. PVMT., INCLUDING CURB

STA. 27+26 TO STA 28+46
FURNISH & INSTALL
120 L.F. 30" FORCE MAIN
BY OTHER THAN OPEN CUT
(NO ENCASEMENT)

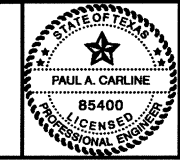
SAWCUT, REMOVE & REPLACE
84 S.Y. 4 INCH REINFORCED
CONCRETE SIDEWALK

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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900

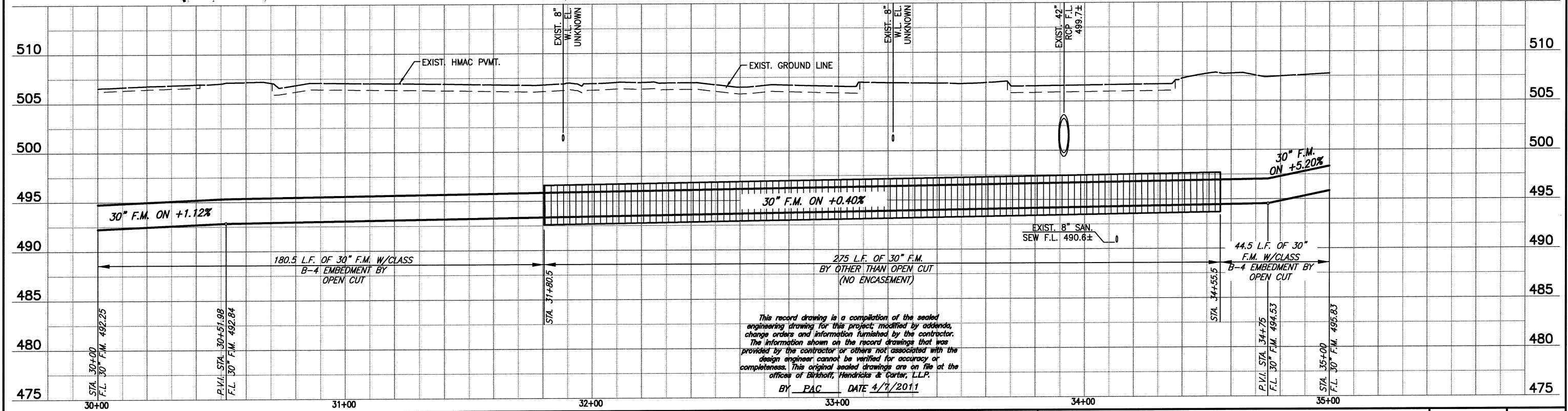
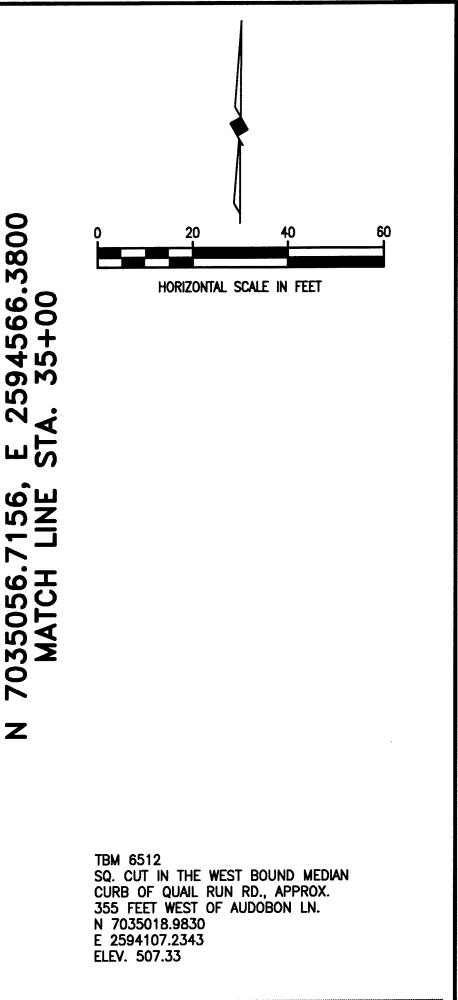
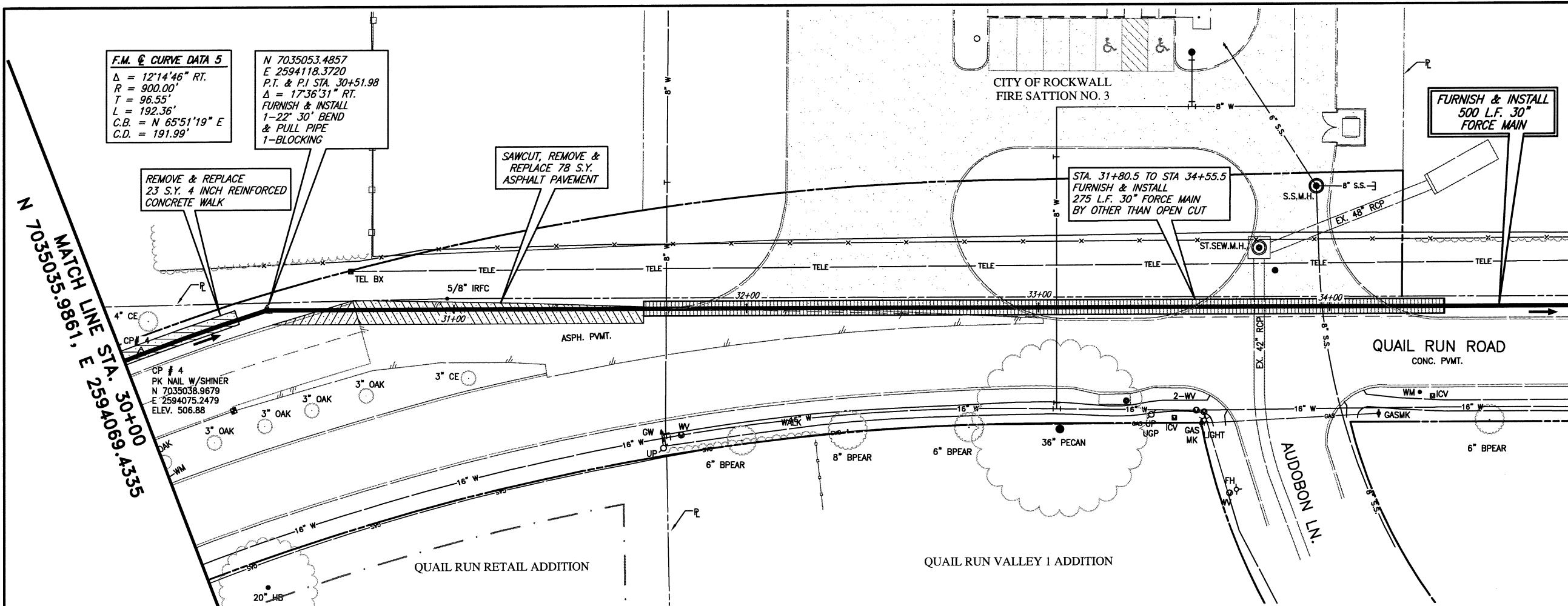


[Signature]
11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 25+00 TO STA. 30+00

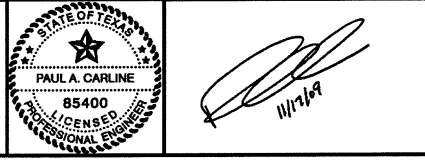
BHC PROJECT NO. 2007-110	SHEET NO. 8
July 2009	

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FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

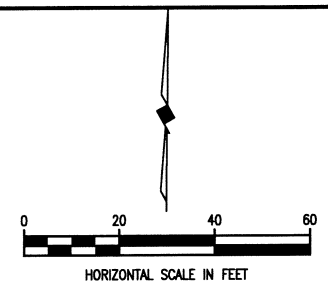
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 PROFESSIONAL ENGINEERS
 Texas Firm F526
 11910 Greenville Ave., Suite 600
 Dallas, Texas 75243 (214) 361-7900



CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 30+00 TO STA. 35+00

BHC PROJECT NO. 2007-110	SHEET NO. 9
July 2009	

STONE CREEK BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.



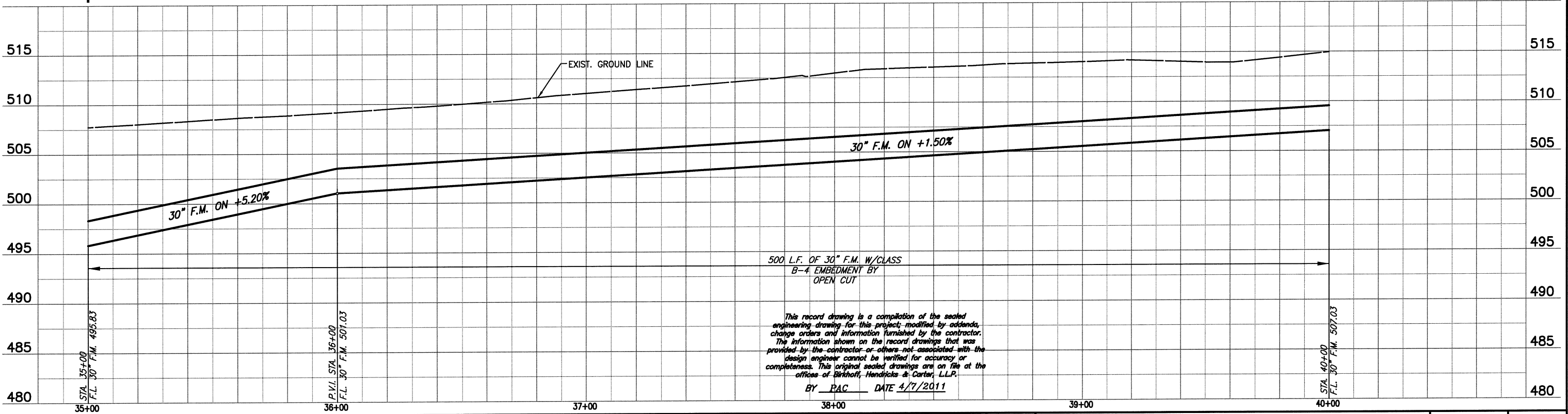
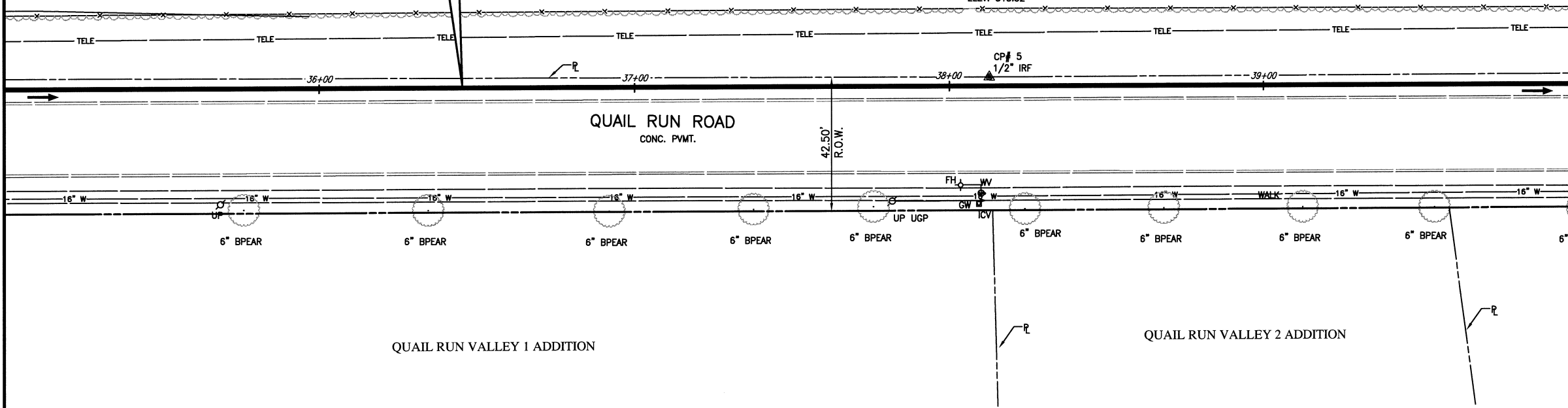
MATCH LINE STA. 35+00
N 7035056.7156, E 2594566.3800

MATCH LINE STA. 40+00
N 7035060.3201, E 2595066.3670

FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN

CP # 5
1/2" IRON ROD
N 7035061.8211
E 2594879.0975
ELEV. 513.52

CP # 5
1/2" IRF

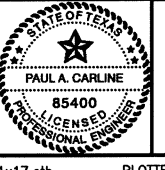


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BY PAC DATE 4/7/2011

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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



Paul A. Carline
11/16/9

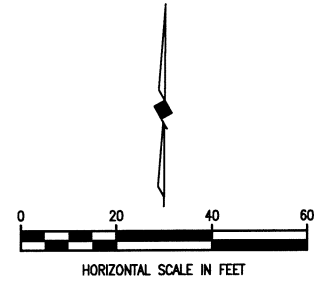
CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 35+00 TO STA. 40+00

BHC
PROJECT NO.
2007-110
July 2009

SHEET NO.
10

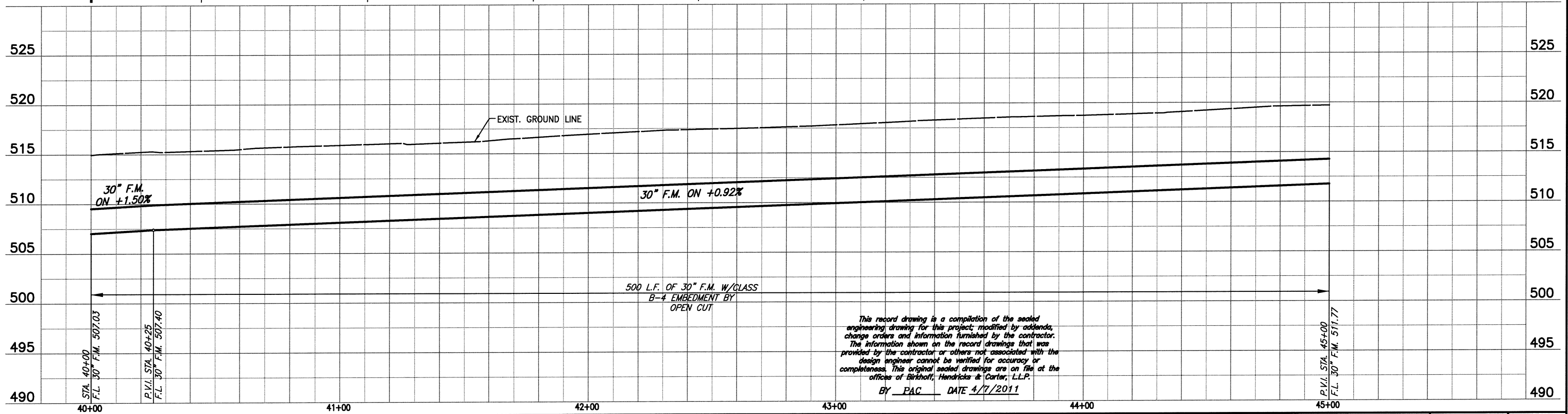
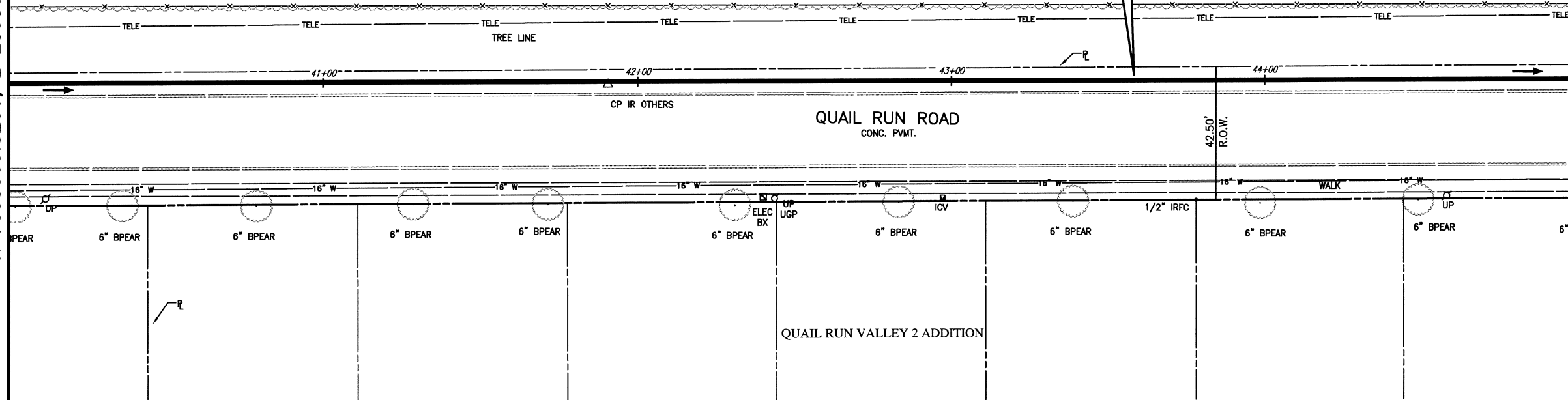
STONE CREEK BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.

FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN



MATCH LINE STA. 40+00
N 7035060.3201, E 2595066.3670

N 7035063.9247, E 2595566.3540
MATCH LINE STA. 45+00

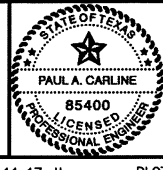


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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



Paul A. Carlisle
11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 40+00 TO STA. 45+00

BHC PROJECT NO. 2007-110	SHEET NO. 11
July 2009	

STONE CREEK BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.

N 7035067.0102
E 2595994.3489
P.I. STA. 49+28.01
Δ = 1'05'27" LT.
PULL PIPE

FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN

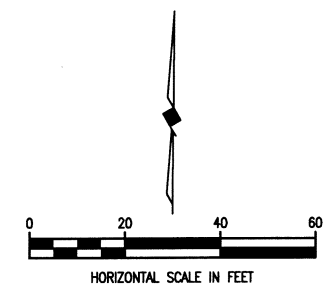
SAWCUT & REMOVE
252 S.Y. ASPHALT
PAVEMENT
FURNISH & INSTALL
252 S.Y. 6" FLEX BASE

SAWCUT, REMOVE & REPLACE
4 S.Y. REINFORCED
CONCRETE PAVEMENT

CP # 6
1/2" IRON ROD
N 7035069.5613
E 2595682.5252
ELEV. 520.99

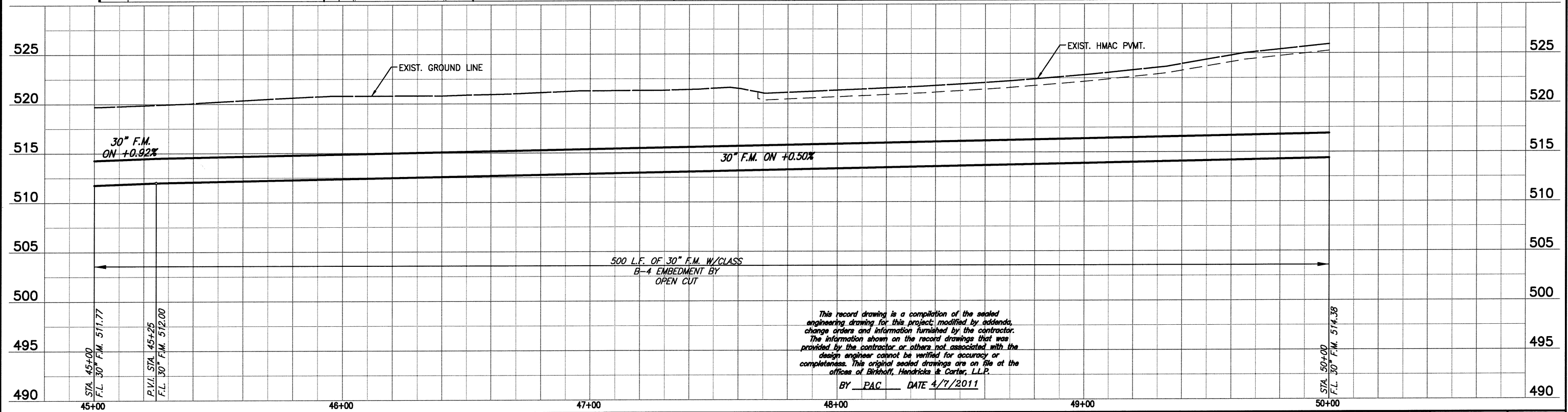
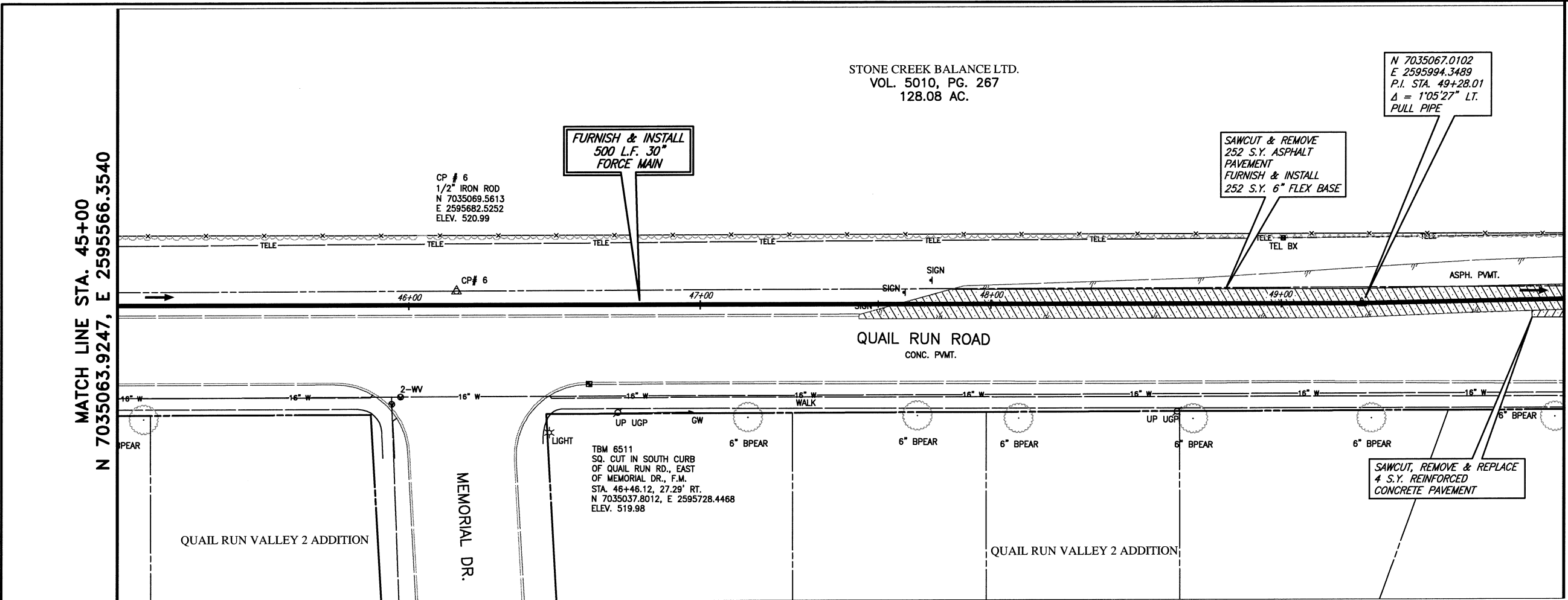
TBM 6511
SQ. CUT IN SOUTH CURB
OF QUAIL RUN RD., EAST
OF MEMORIAL DR., F.M.
STA. 46+46.12, 27.29' RT.
N 7035037.8012, E 2595728.4468
ELEV. 519.98

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engineering drawing for this project, modified by addenda,
change orders and information furnished by the contractor.
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provided by the contractor or others not associated with the
design engineer cannot be verified for accuracy or
completeness. This original sealed drawings are on file at the
office of Birkhoff, Hendricks & Conway, L.L.P.
BY PAC DATE 4/7/2011



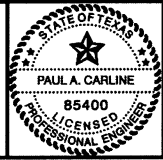
MATCH LINE STA. 45+00
N 7035063.9247, E 2595566.3540

N 7035068.8996, E 2596066.3181
MATCH LINE STA. 50+00



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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



[Signature]
11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 45+00 TO STA. 50+00

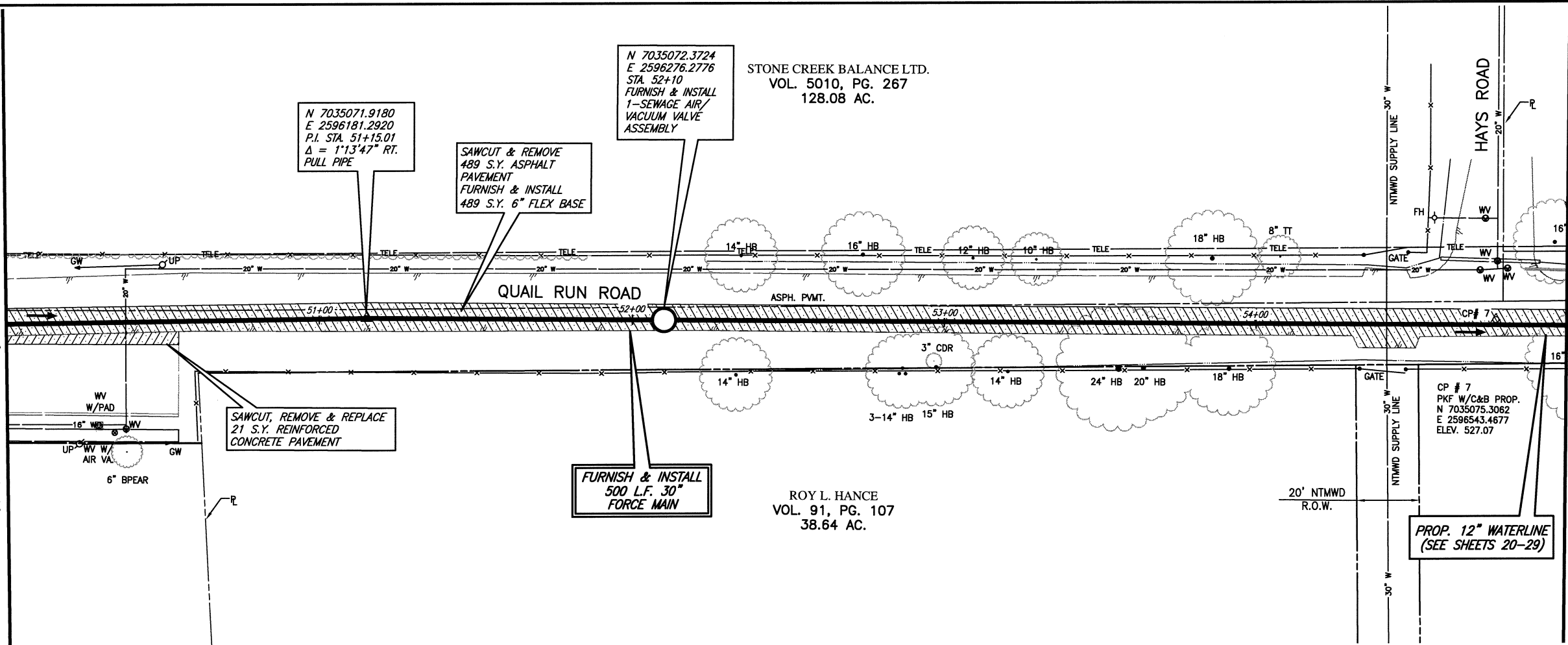
BHC PROJECT NO. 2007-110	SHEET NO. 12
July 2009	

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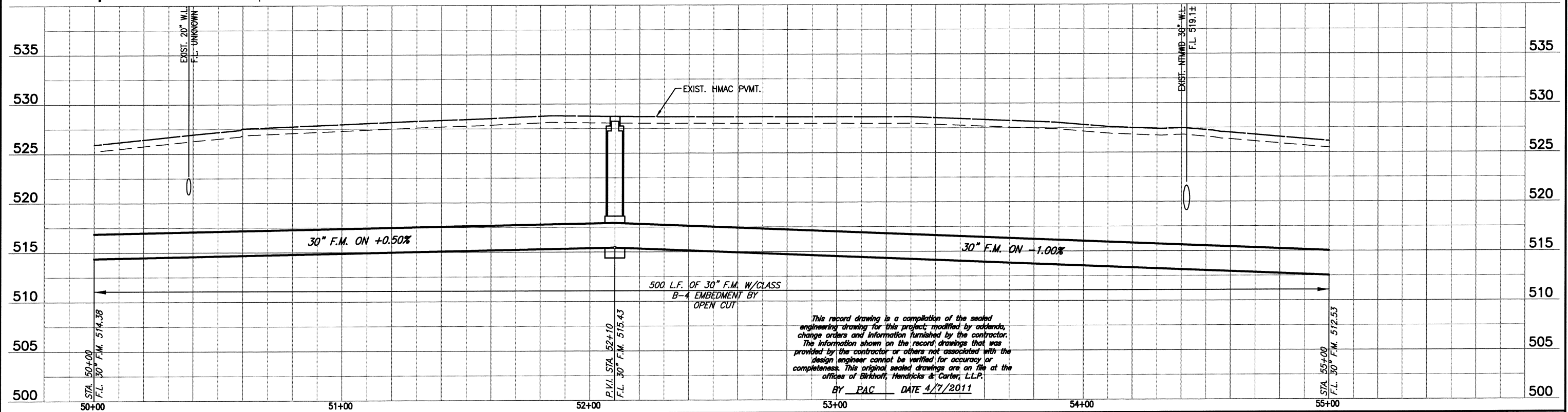
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MATCH LINE STA. 50+00
N 7035068.8996, E 2596066.3181

MATCH LINE STA. 55+00
N 7035073.7596, E 2596566.2740



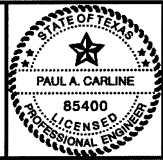
CAUTION!!
NTMWD WATER LINE IN AREA.
CONTACT NTMWD AT 972-442-5405
FOR LOCATES & APPROVAL PRIOR TO
EXCAVATING IN THIS AREA.



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BY PAC DATE 4/7/2011

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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



Paul A. Carline
11/7/09

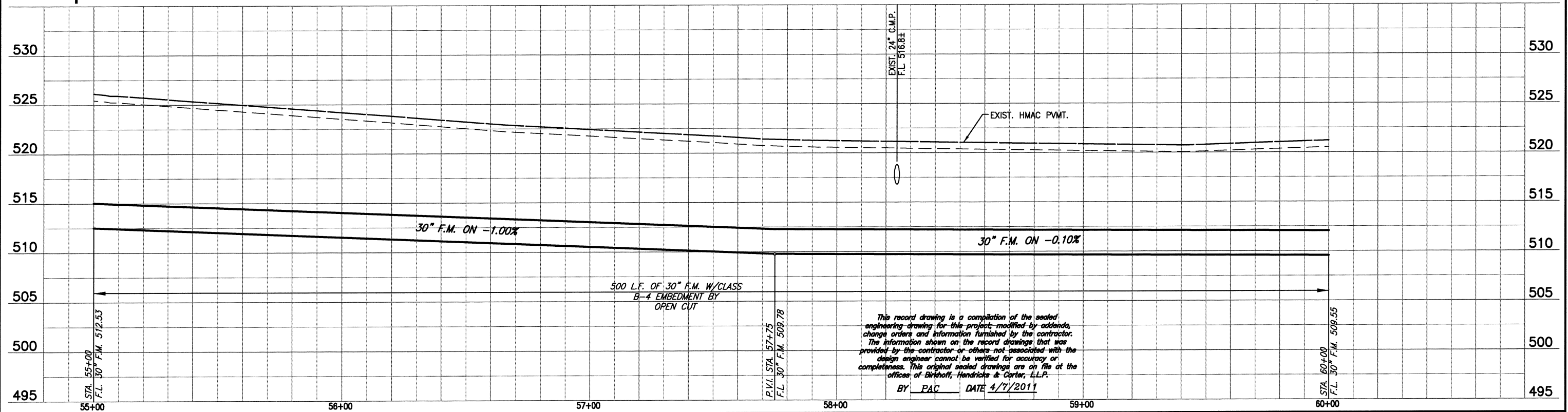
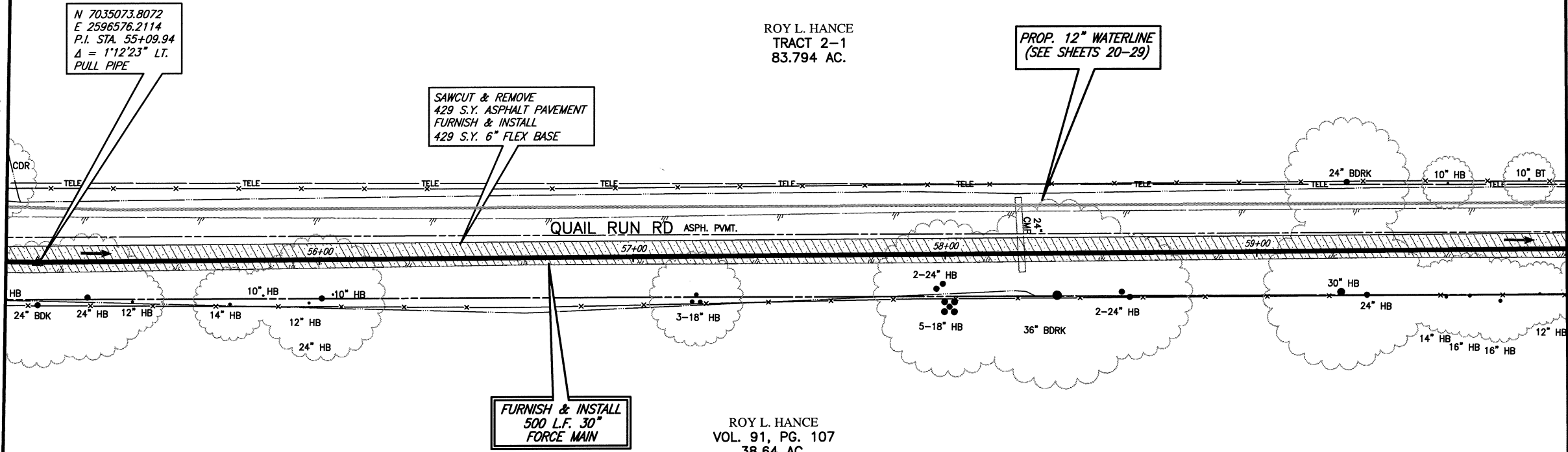
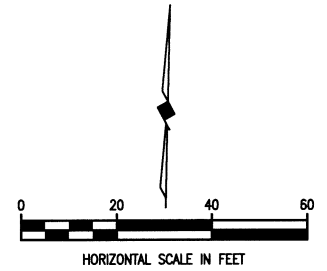
CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 50+00 TO STA. 55+00

BHC PROJECT NO. 2007-110	SHEET NO. 13
July 2009	

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MATCH LINE STA. 55+00
N 7035073.7596, E 2596566.2740

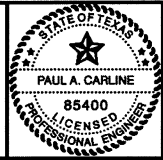
N 7035086.4689, E 2597066.1103
MATCH LINE STA. 60+00



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BY PAC DATE 4/7/2011

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11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



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11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 55+00 TO STA. 60+00

BHC PROJECT NO. 2007-110	SHEET NO. 14
July 2009	

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MATCH LINE STA. 60+00
N 7035086.4689, E 2597066.1103

N 7035073.8072
E 2596576.2114
P.I. STA. 60+71.83
Δ = 00°28'58" LT.
PULL PIPE

SAWCUT & REMOVE
482 S.Y. ASPHALT PAVEMENT
FURNISH & INSTALL
482 S.Y. 6" FLEX BASE

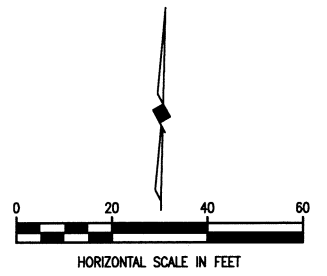
ROY L. HANCE
TRACT 2-1
83.794 AC.

PROP. 12" WATERLINE
(SEE SHEETS 20-29)

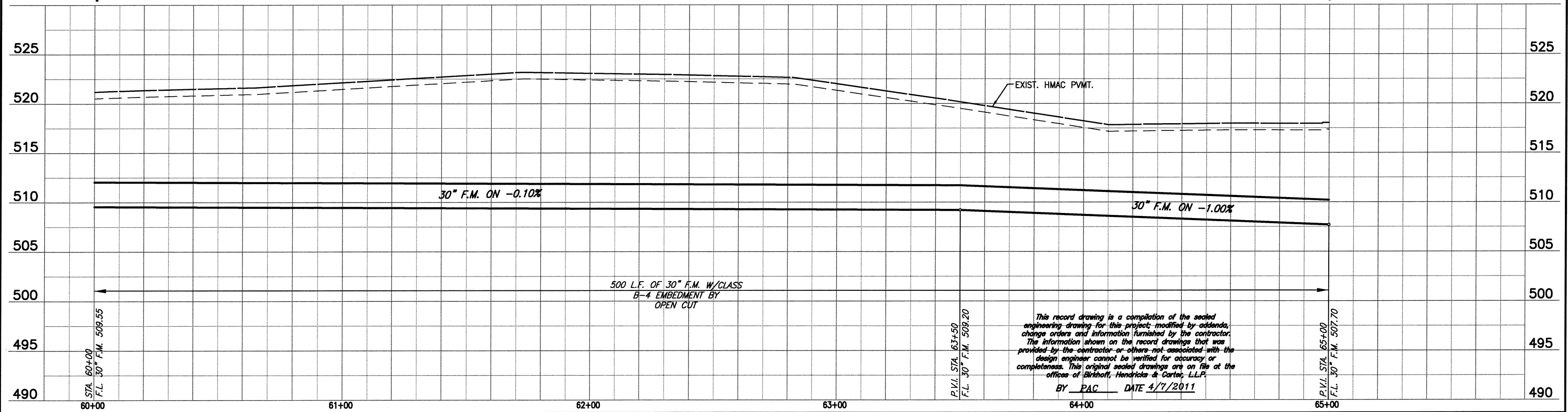
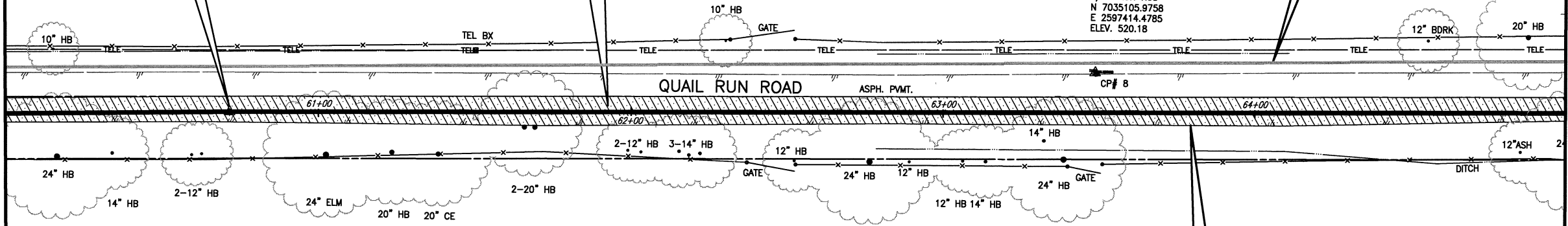
CP # 8
1/2" IRON ROD
N 7035105.9758
E 2597414.4785
ELEV. 520.18

FURNISH & INSTALL
500 L.F. 30"
FORCE MAIN

ROY L. HANCE
VOL. 91, PG. 107
38.64 AC.



N 7035095.7813, E 2597566.0214
MATCH LINE STA. 65+00



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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



[Signature]
11/7/11

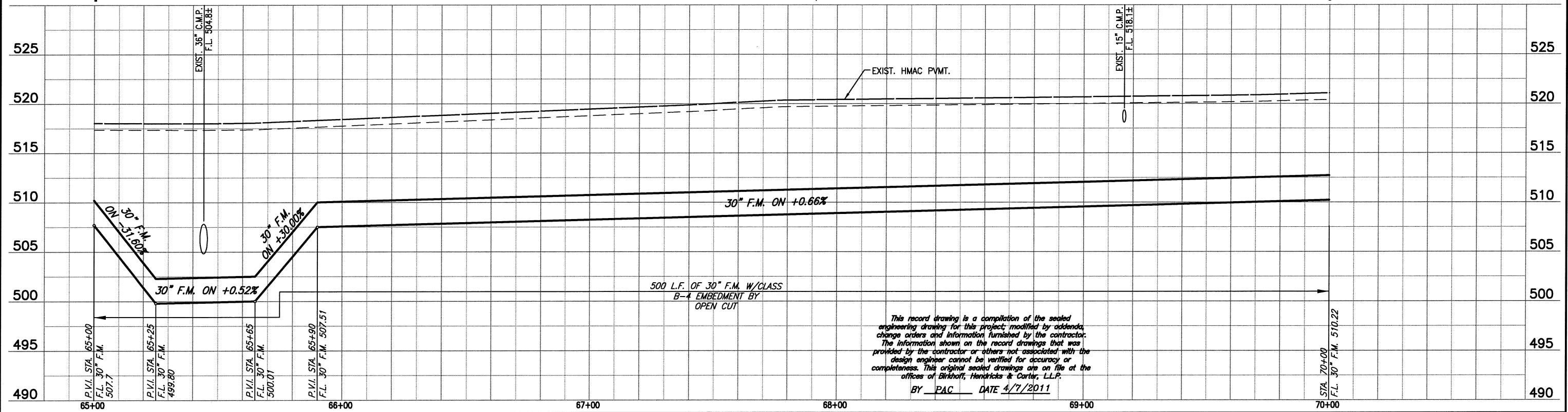
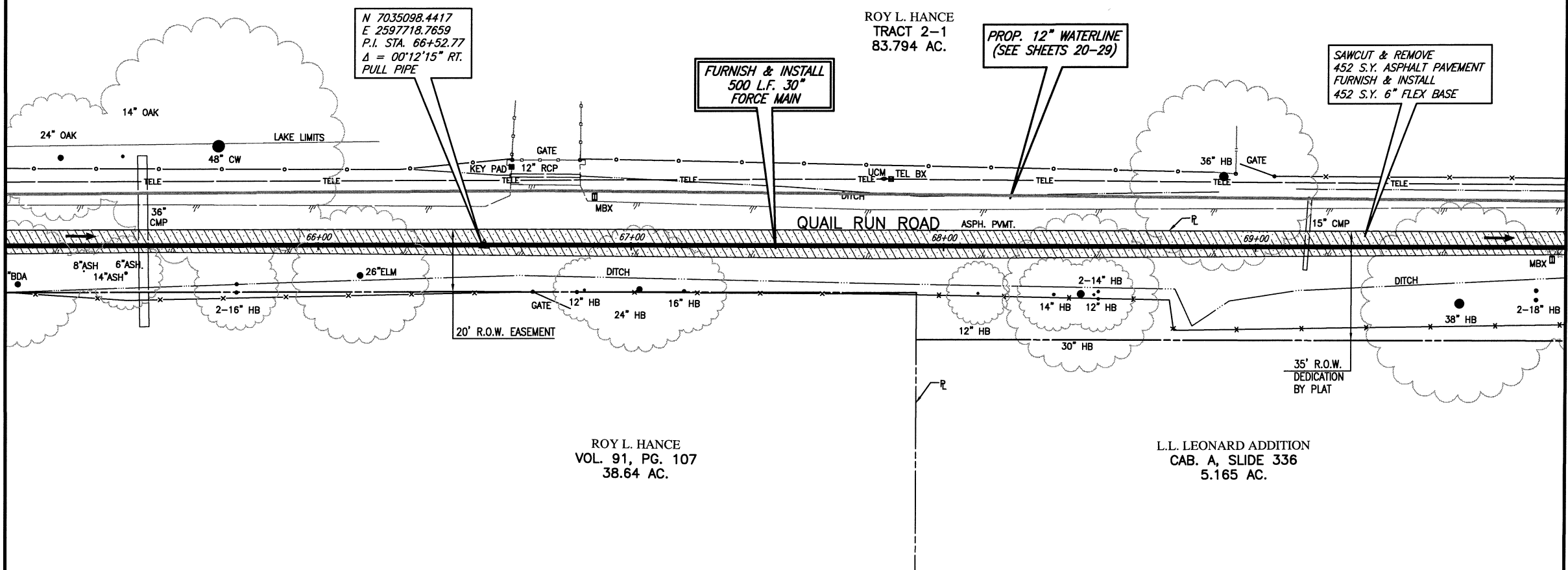
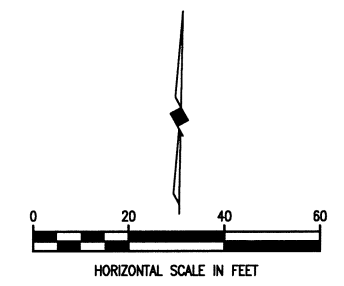
CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 60+00 TO STA. 65+00

BHC
PROJECT NO.
2007-110
July 2009
SHEET NO.
15

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MATCH LINE STA. 65+00
N 7035095.7813, E 2597566.0214

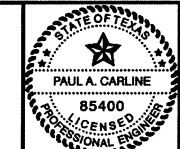
MATCH LINE STA. 70+00
N 7035103.2521, E 2598065.9649



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PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900

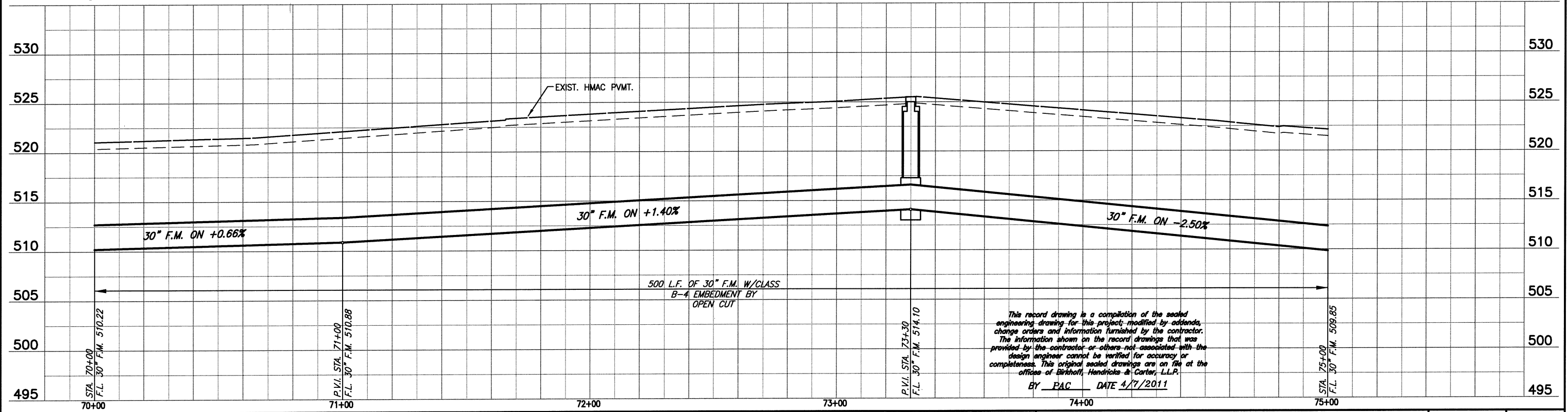
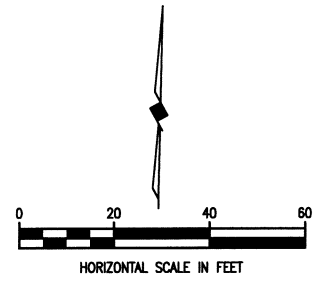
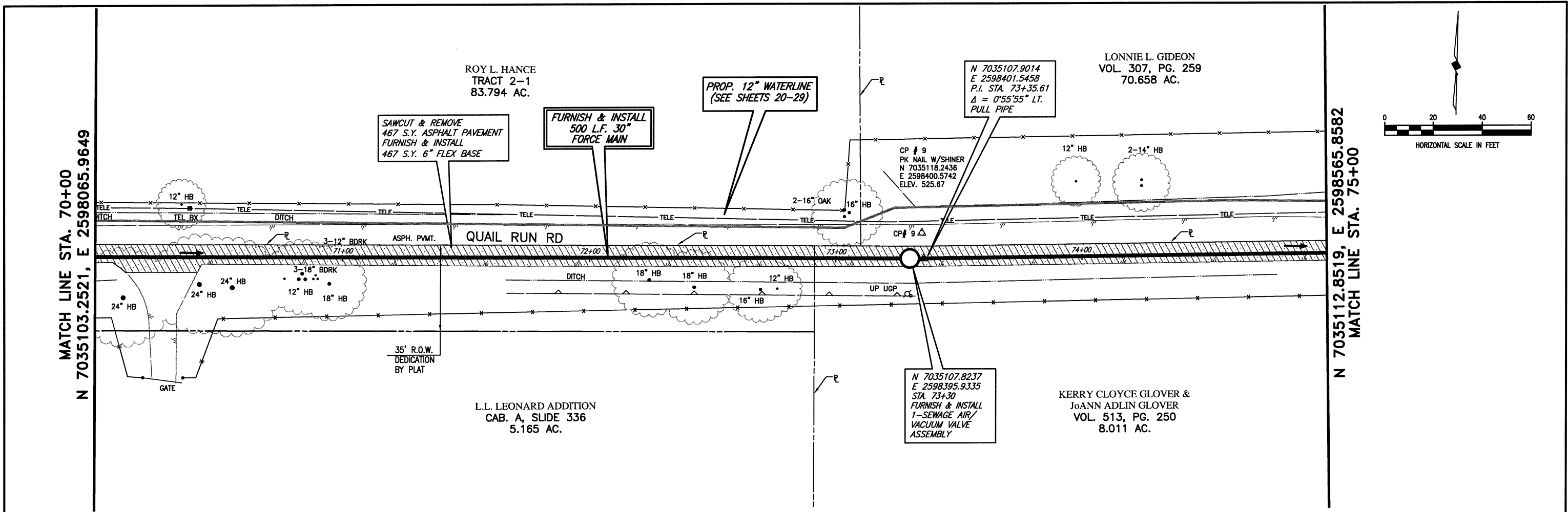


[Signature]
11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 65+00 TO STA. 70+00

BHC
PROJECT NO.
2007-110
July 2009
SHEET NO.
16

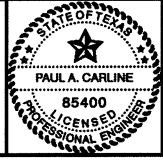
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 BY EAC DATE 4/7/2011

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 Dallas, Texas 75243 (214) 361-7900



[Signature]
 11/7/09

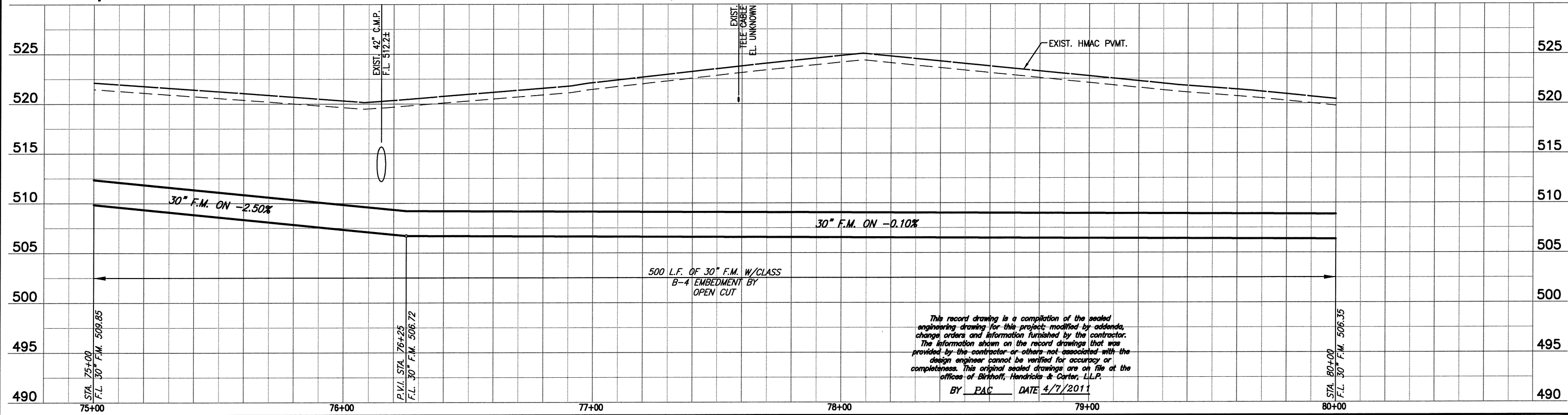
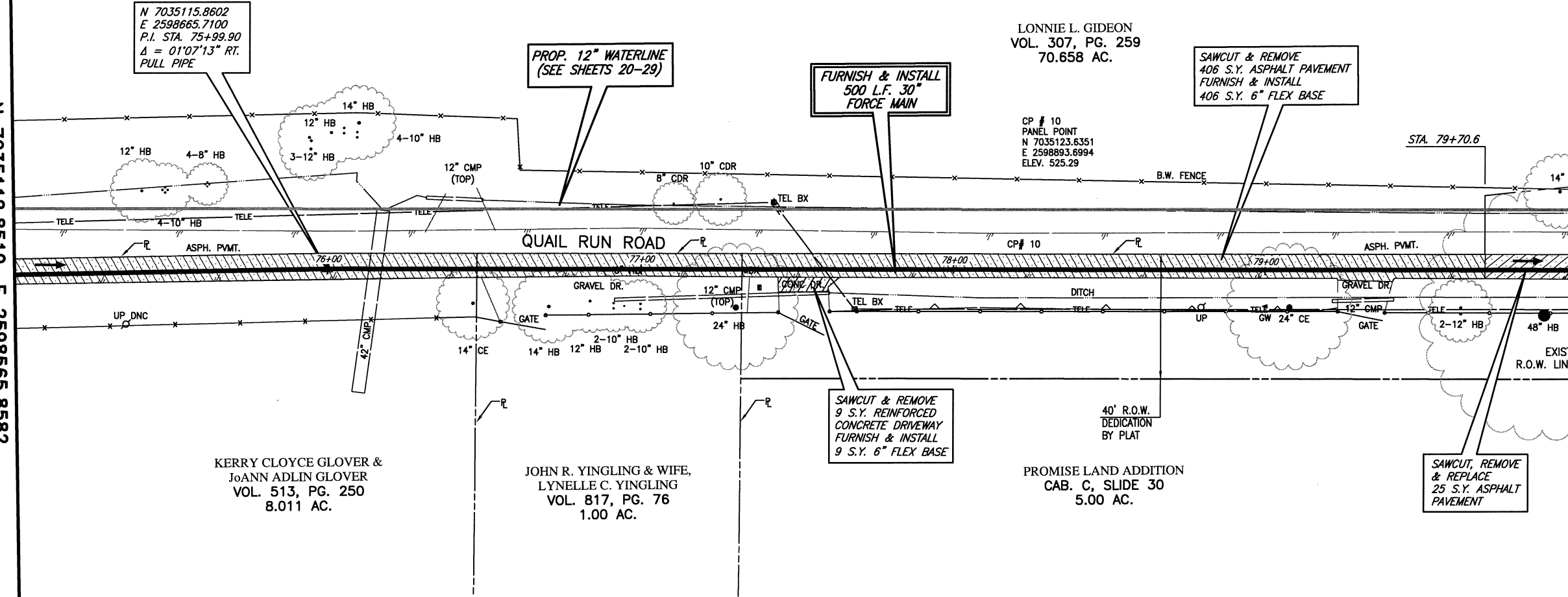
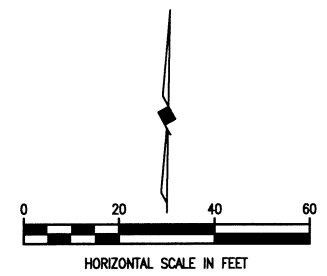
CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 70+00 TO STA. 75+00

BHC PROJECT NO. 2007-110	SHEET NO. 17
July 2009	

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N 7035112.8519, E 2598565.8582
MATCH LINE STA. 75+00

N 7035120.0874, E 2599065.7905
MATCH LINE STA. 80+00



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11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900

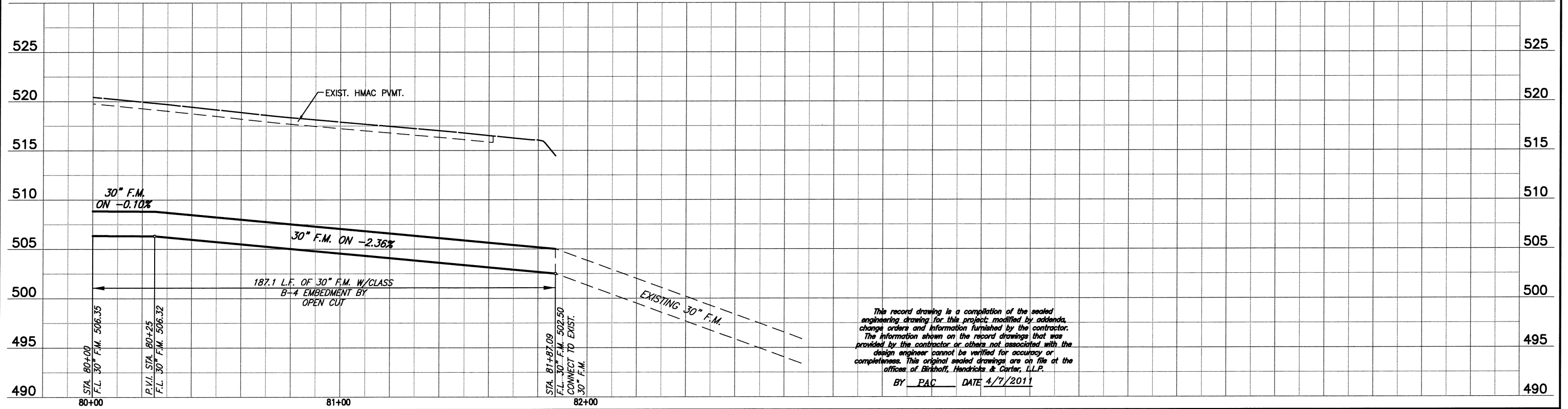
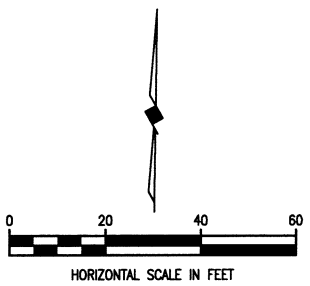
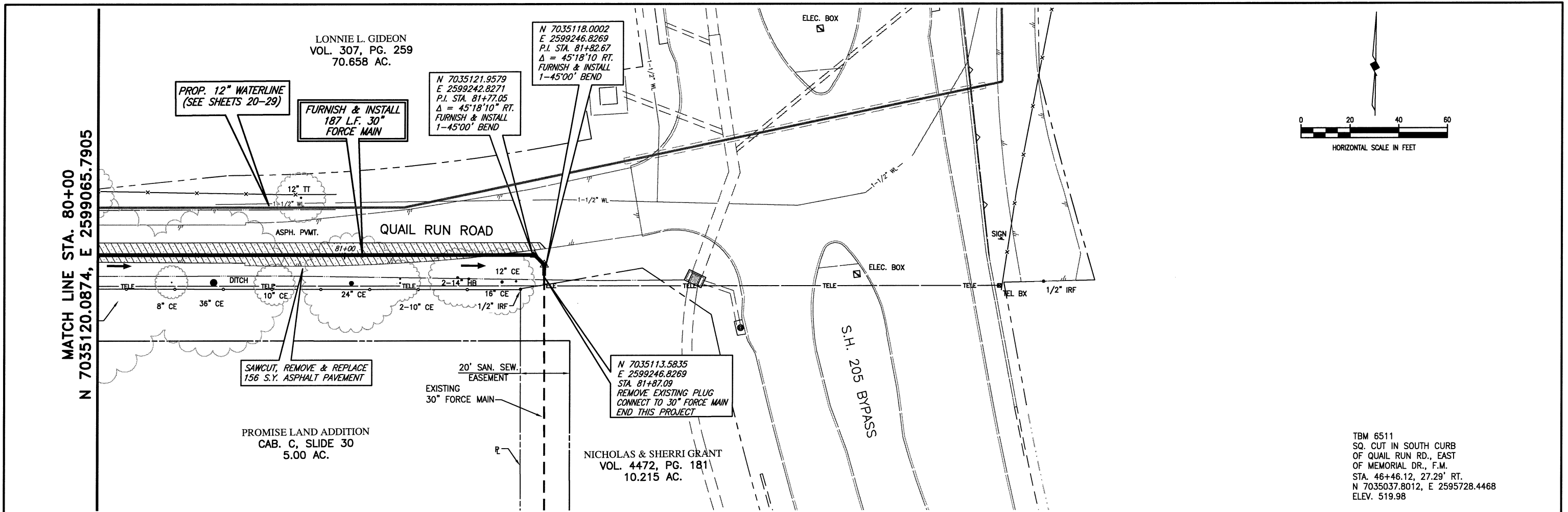


[Signature]
11/7/09

CITY ROCKWALL, TEXAS
SQUABBLE CREEK
30 INCH FORCE MAIN
PLAN AND PROFILE
STA. 75+00 TO STA. 80+00

BHC PROJECT NO. 2007-110	SHEET NO. 18
July 2009	

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FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

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 PROFESSIONAL ENGINEERS
 Texas Firm F526
 11910 Greenville Ave., Suite 600
 Dallas, Texas 75243 (214) 361-7900

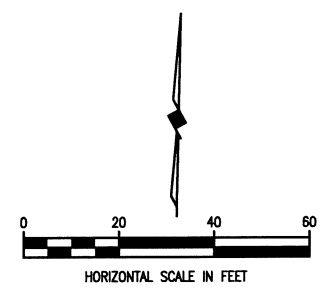
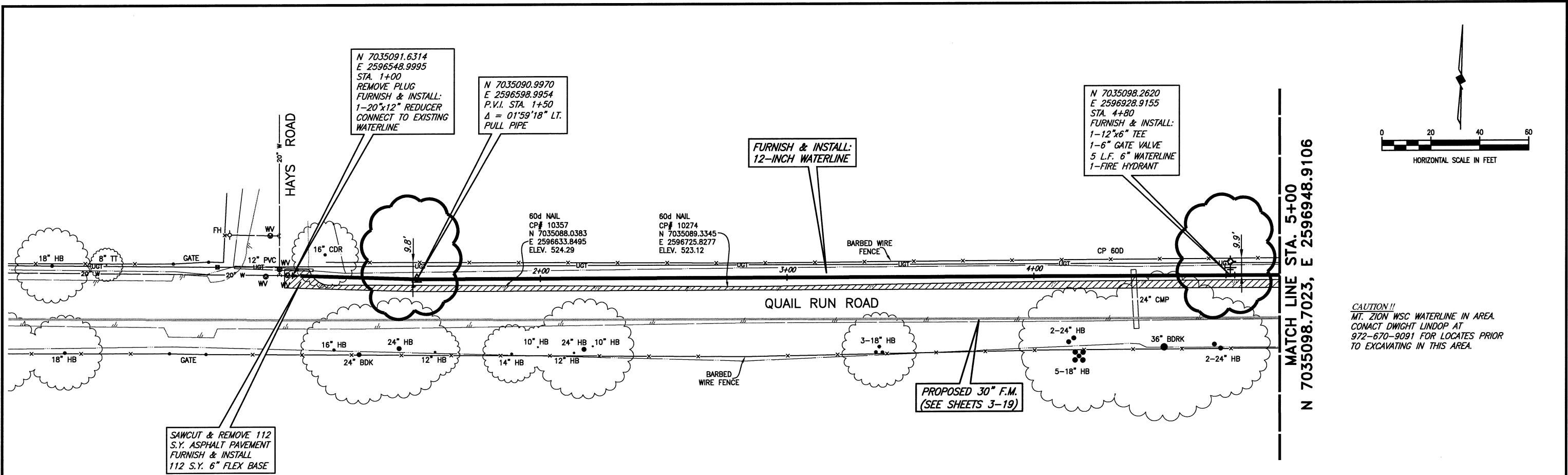


BY *PAC* DATE 4/7/2011

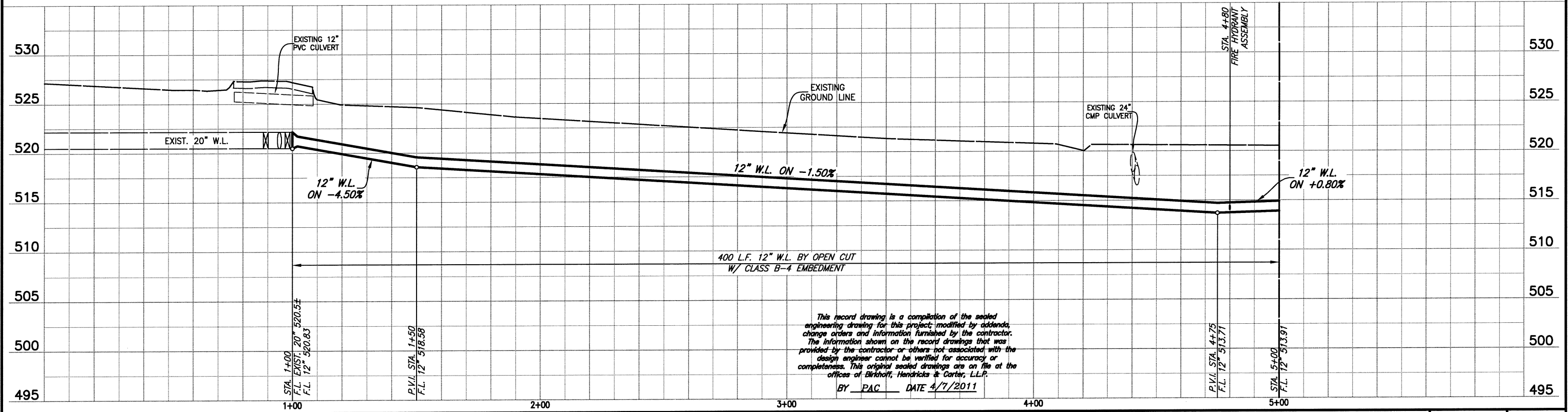
CITY ROCKWALL, TEXAS
 SQUABBLE CREEK
 30 INCH FORCE MAIN
 PLAN AND PROFILE
 STA. 80+00 TO STA. 81+70.12

BHC PROJECT NO. 2007-110	SHEET NO. 19
April 2011	

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CAUTION!!
 MT. ZION WSC WATERLINE IN AREA.
 CONTACT DWIGHT LINDOP AT
 972-670-9091 FOR LOCATES PRIOR
 TO EXCAVATING IN THIS AREA.



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 PROFESSIONAL ENGINEERS
 Texas Firm F526
 11910 Greenville Ave., Suite 600
 Dallas, Texas 75243 (214) 361-7900

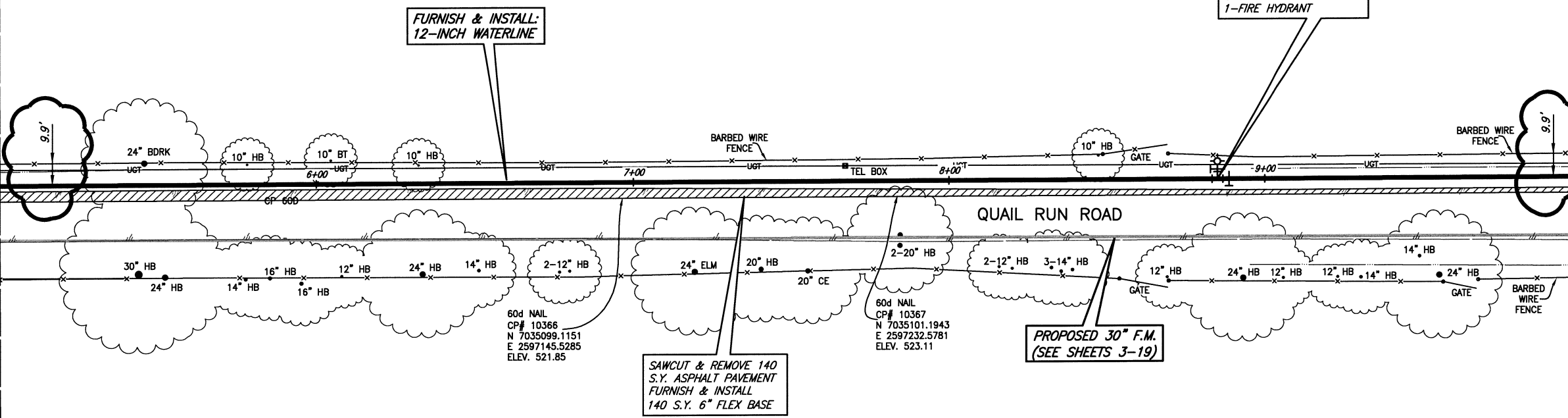
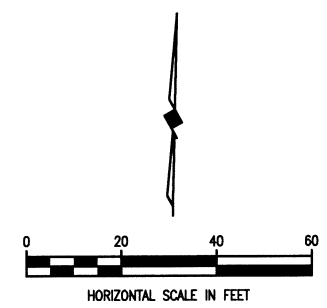
CITY OF ROCKWALL, TEXAS
 QUAIL RUN WATER LINE
 PLAN-PROFILE STA. 1+00 TO STA. 5+00

BHC PROJECT NO. 2007-129	SHEET NO. 20
April 2011	

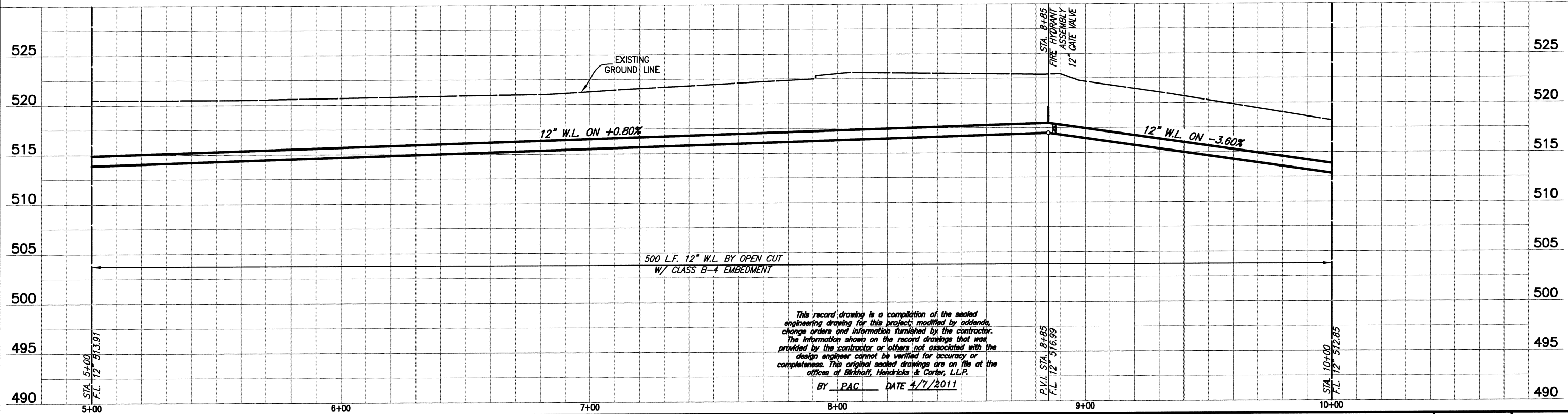
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N 7035098.7023, E 2596948.9106
MATCH LINE STA. 5+00

MATCH LINE STA. 10+00
N 7035109.7097, E 2597448.7894



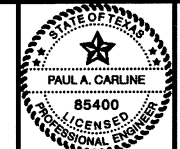
CAUTION !!
MT. ZION WSC WATERLINE IN AREA.
CONTACT DWIGHT LINDOP AT
972-670-9091 FOR LOCATES PRIOR
TO EXCAVATING IN THIS AREA.



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Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900

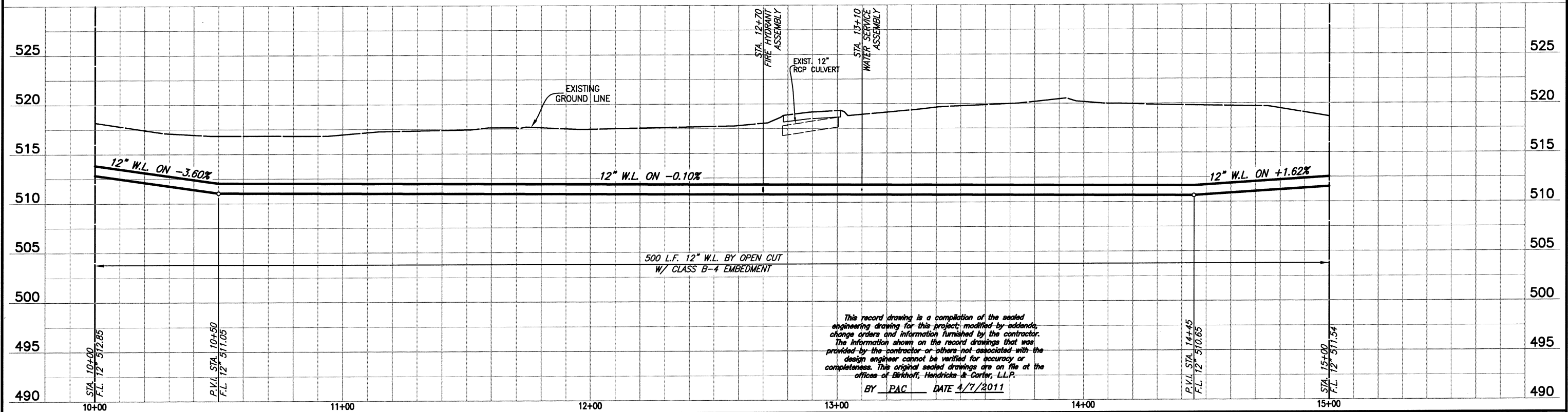
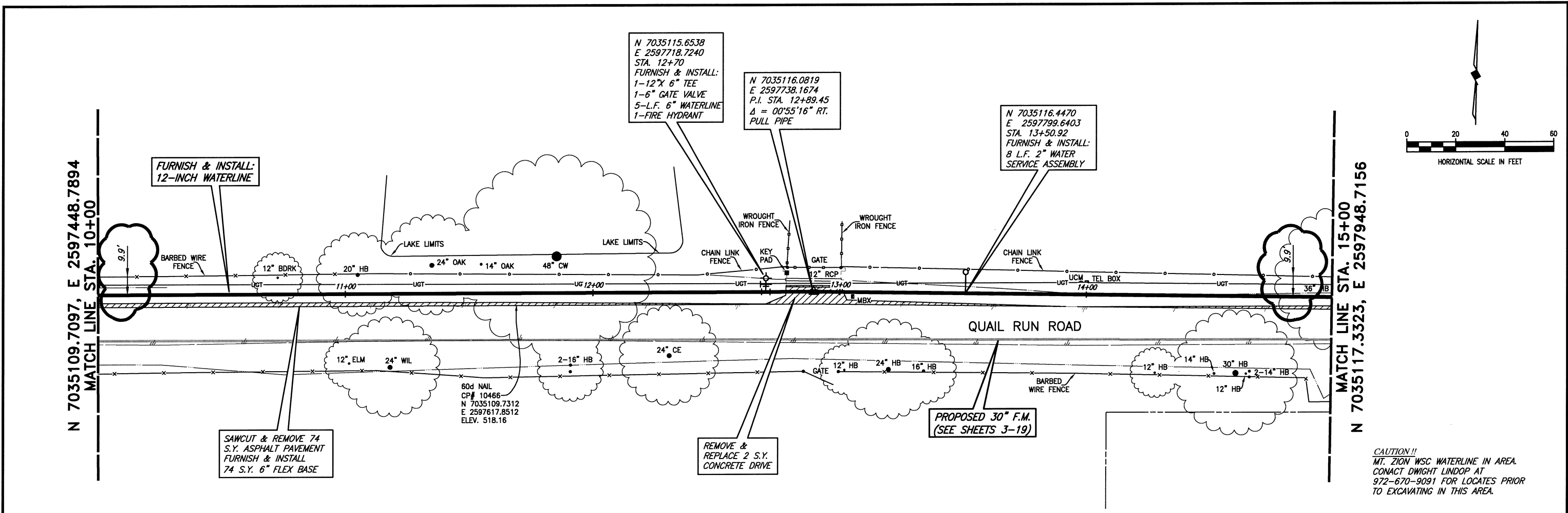


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CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 5+00 TO STA. 10+00

BHC PROJECT NO. 2007-129
April, 2011
SHEET NO. 21

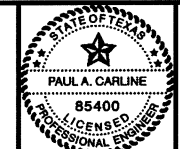
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FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

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 PROFESSIONAL ENGINEERS
 Texas Firm F526
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 Dallas, Texas (214) 361-7900

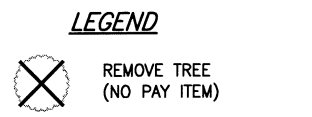
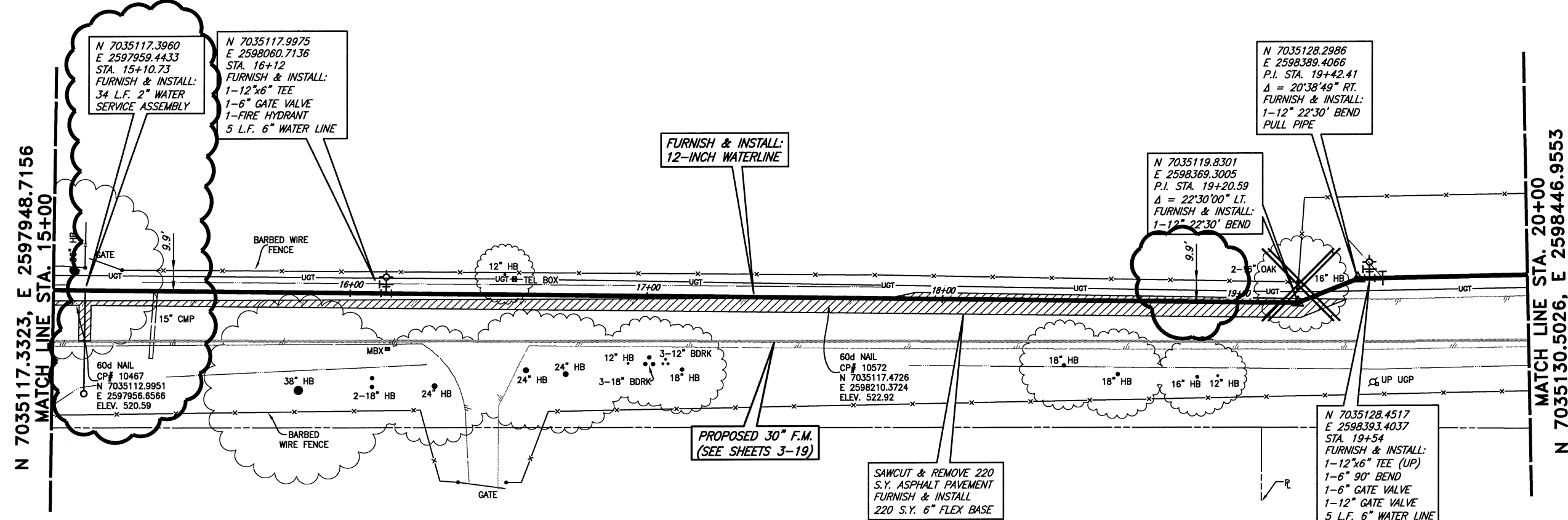


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 11/7/11

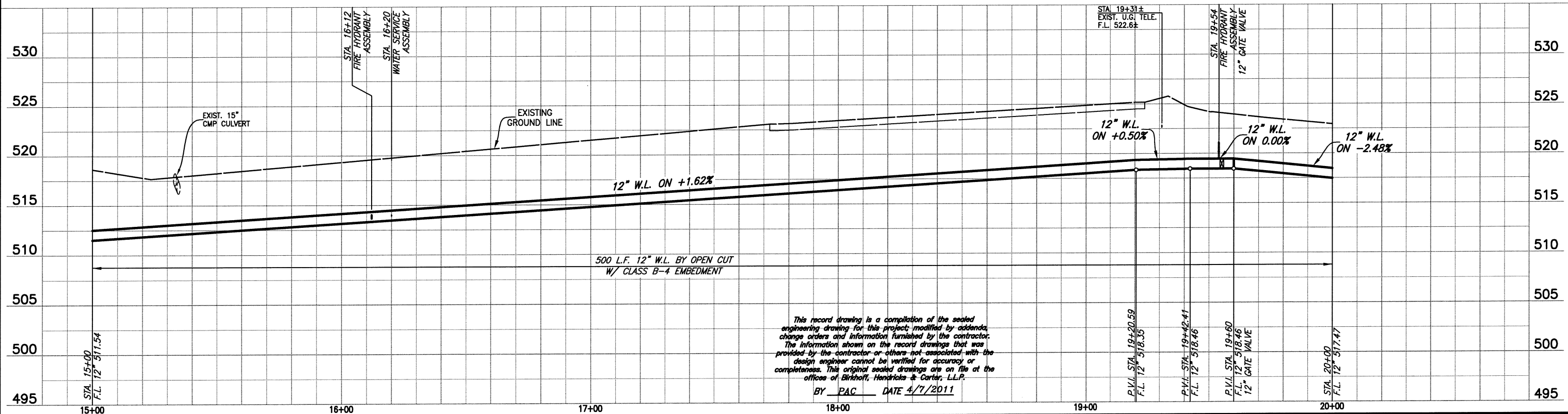
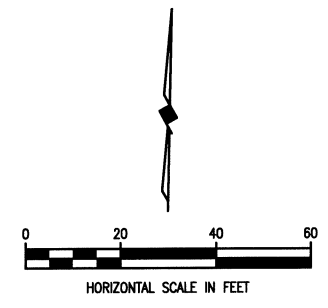
CITY OF ROCKWALL, TEXAS
 QUAIL RUN WATER LINE
 PLAN-PROFILE STA. 10+00 TO STA. 15+00

BHC PROJECT NO. 2007-129
 April, 2011
 SHEET NO. 22

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CAUTION !!
 MT. ZION WSC WATERLINE IN AREA.
 CONTACT DWIGHT LINDOP AT
 972-670-9091 FOR LOCATES PRIOR
 TO EXCAVATING IN THIS AREA.



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 Texas Firm F526
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[Signature]
 11/17/11

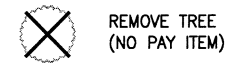
CITY OF ROCKWALL, TEXAS
 QUAIL RUN WATER LINE
 PLAN-PROFILE STA. 15+00 TO STA. 20+00

BHC PROJECT NO. 2007-129
 April, 2011
 SHEET NO. **23**

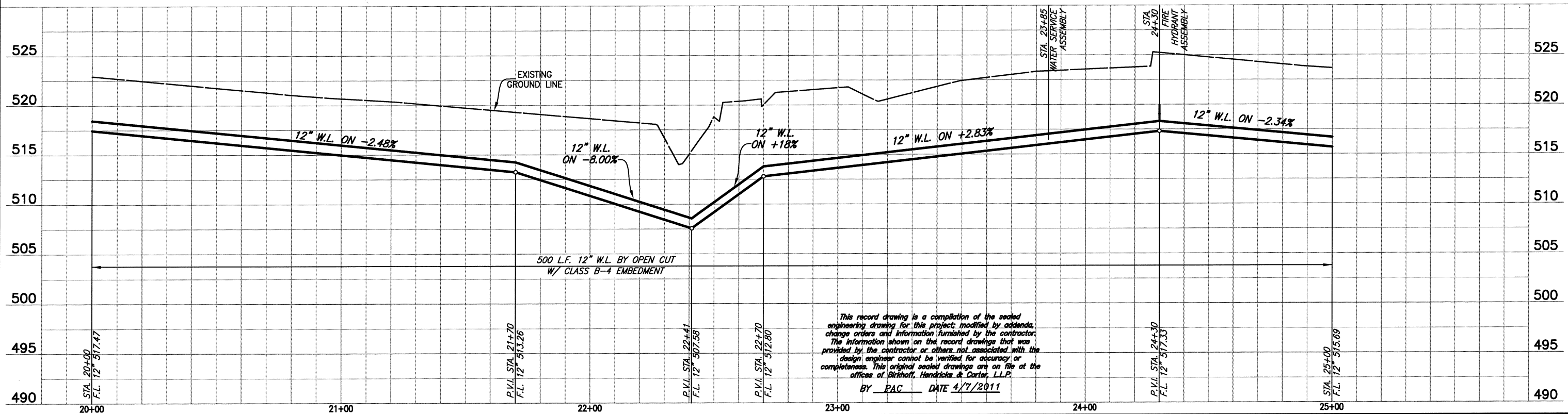
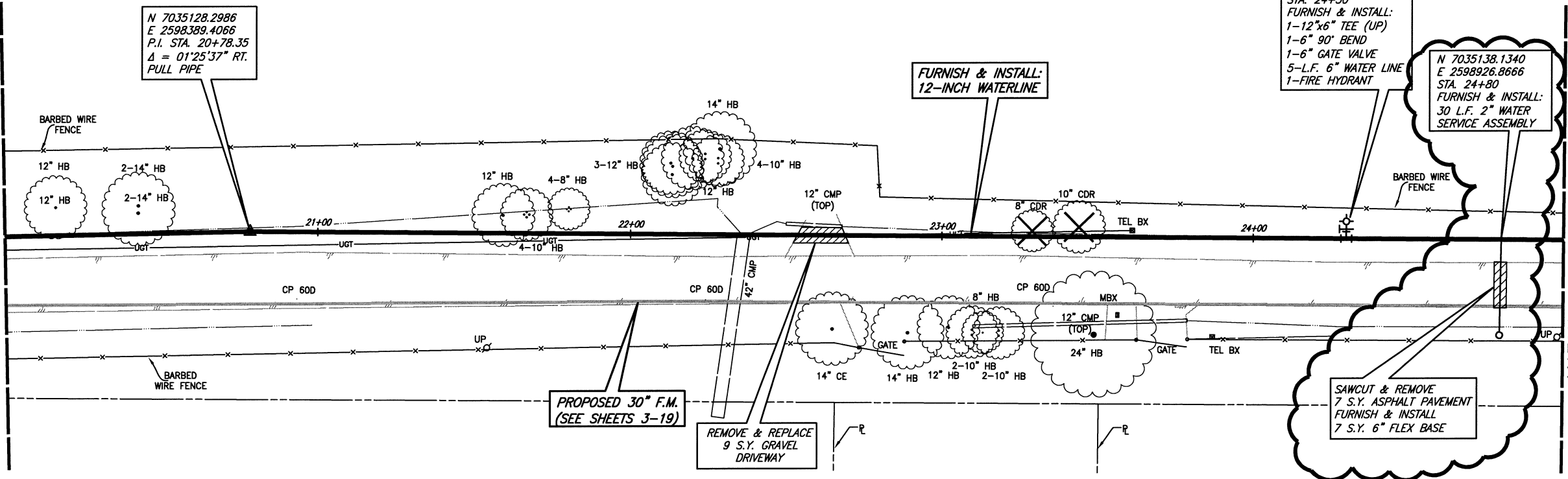
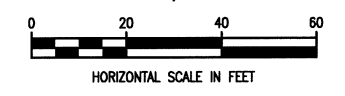
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MATCH LINE STA. 20+00
N 7035130.5026, E 2598446.9553

LEGEND

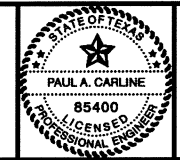


CAUTION!!
MT. ZION WSC WATERLINE IN AREA.
CONTACT DWIGHT LINDOP AT
972-670-9091 FOR LOCATES PRIOR
TO EXCAVATING IN THIS AREA.



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BY EAC DATE 4/7/2011

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PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900



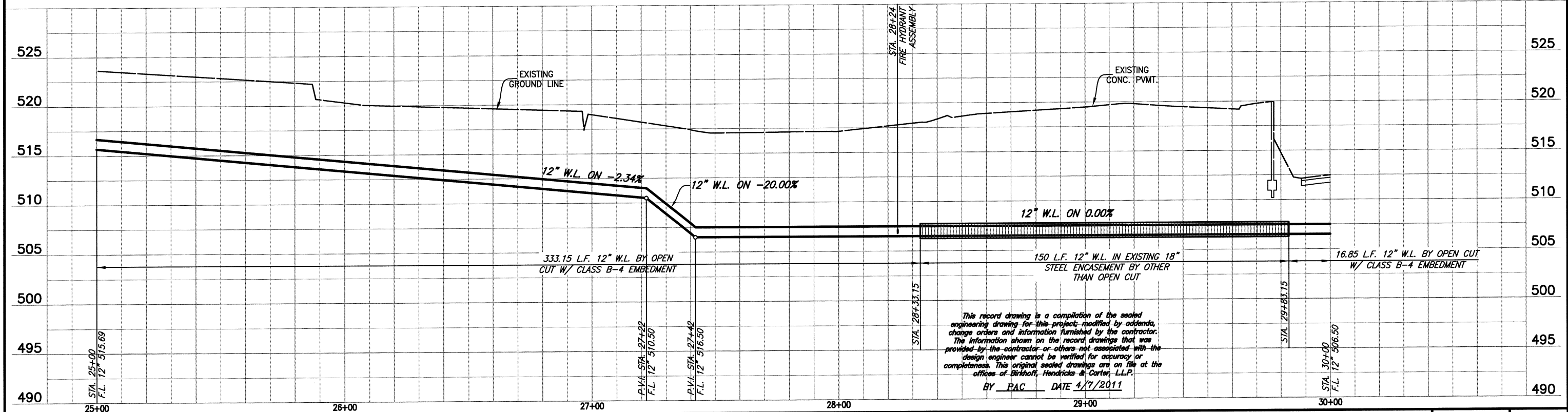
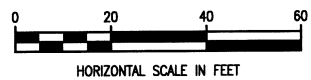
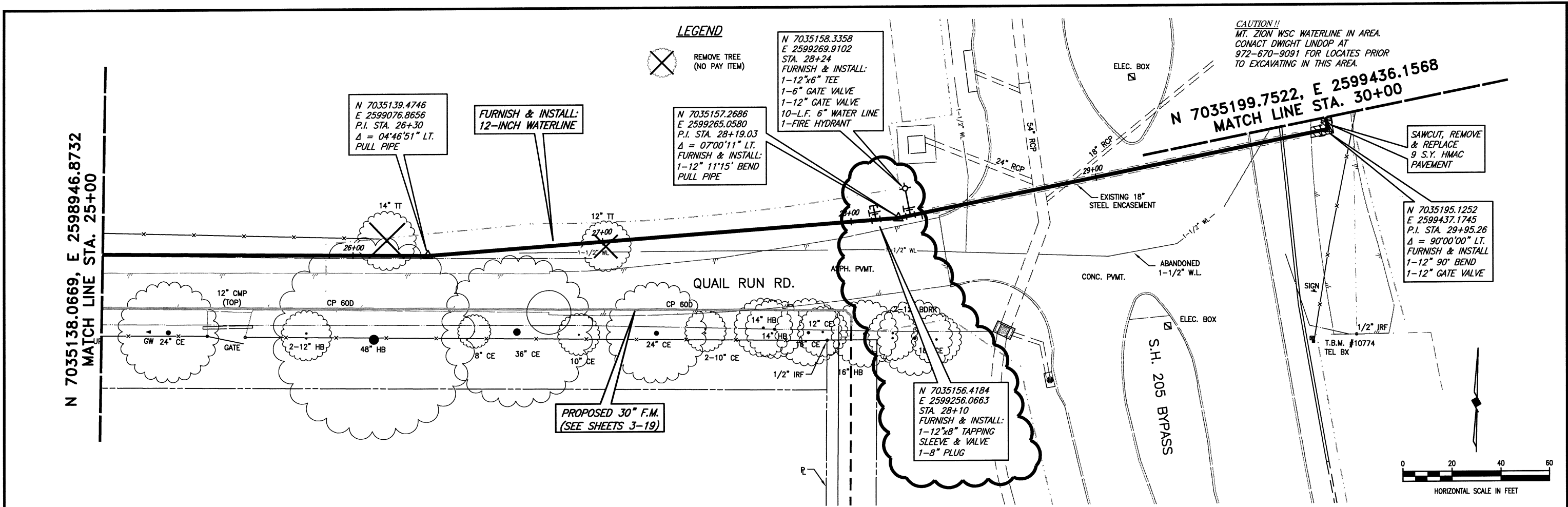
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7/28/11

CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 20+00 TO STA. 25+00

BHC
PROJECT NO.
2007-129
April 2011

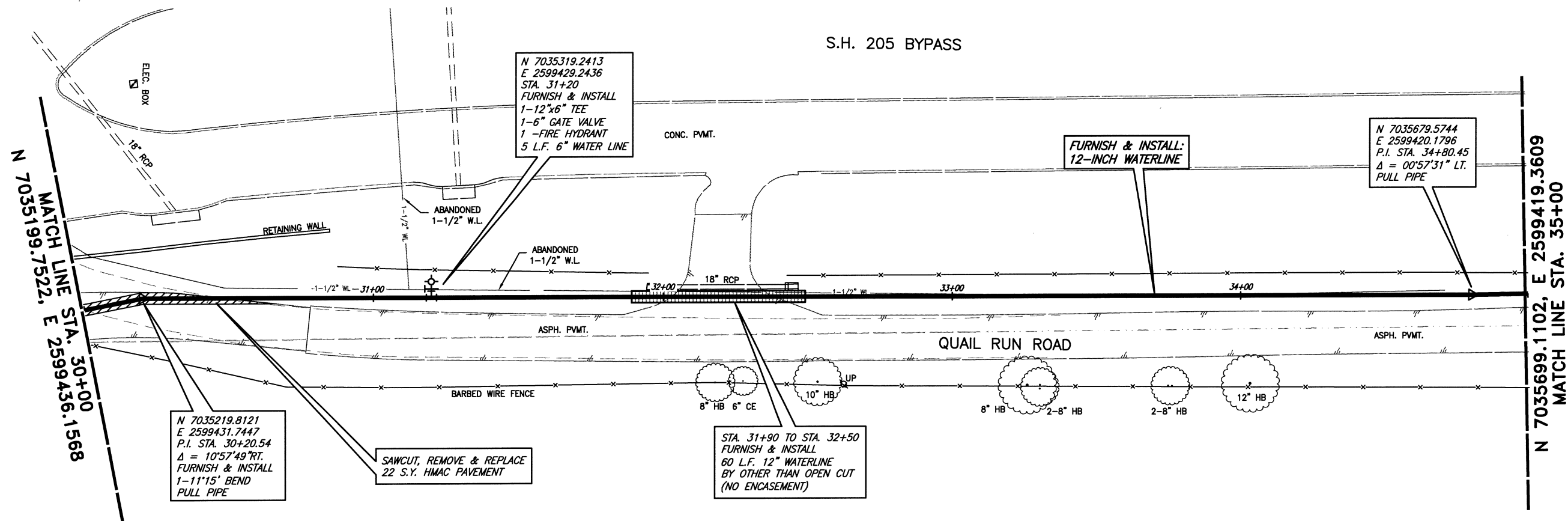
SHEET NO.
24

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Birkhoff, Hendricks, & Conway, L.L.P.

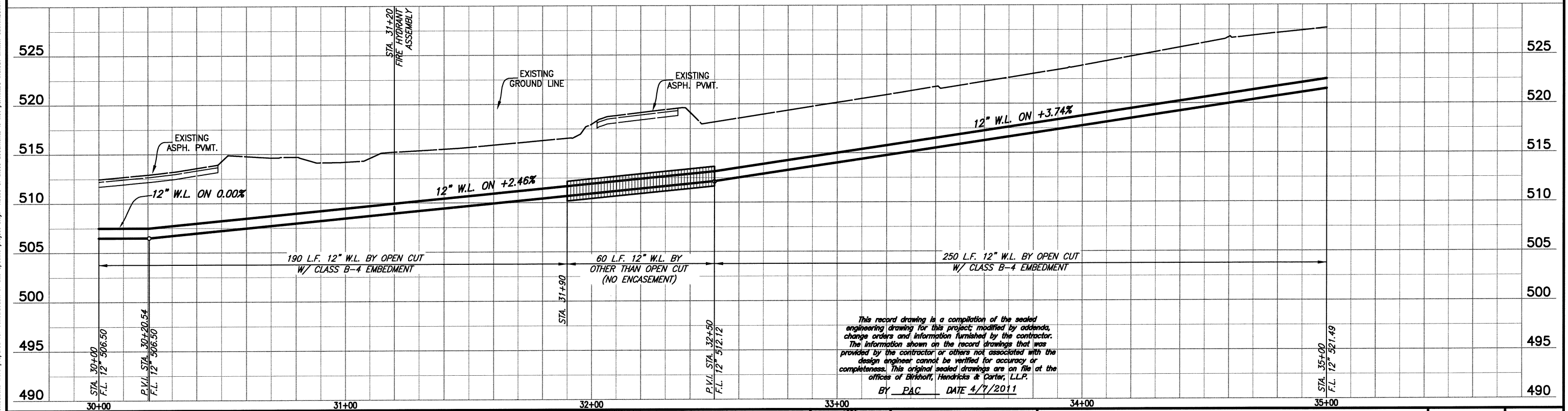


<p>BIRKHOFF, HENDRICKS & CONWAY, L.L.P. PROFESSIONAL ENGINEERS Texas Firm F526 11910 Greenville Ave., Suite 600 Dallas, Texas (214) 361-7900</p>			<p>CITY OF ROCKWALL, TEXAS QUAIL RUN WATER LINE PLAN-PROFILE STA. 25+00 TO STA. 30+00</p>	<p>BHC PROJECT NO. 2007-129 April, 2011</p>	<p>SHEET NO. 25</p>
			<p>REVISIONS:</p>		

S.H. 205 BYPASS



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MATCH LINE STA. 35+00
N 7035699.1102, E 2599419.3609

MATCH LINE STA. 40+00
N 7036198.8108, E 2599403.8328

S.H. 205 BYPASS
(NORTH BOUND)

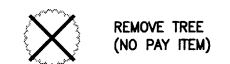
FURNISH & INSTALL:
12-INCH WATERLINE

N 7036031.4066
E 2599405.4355
P.I. STA. 38+33.56
Δ = 01°51'04" RT.
PULL PIPE

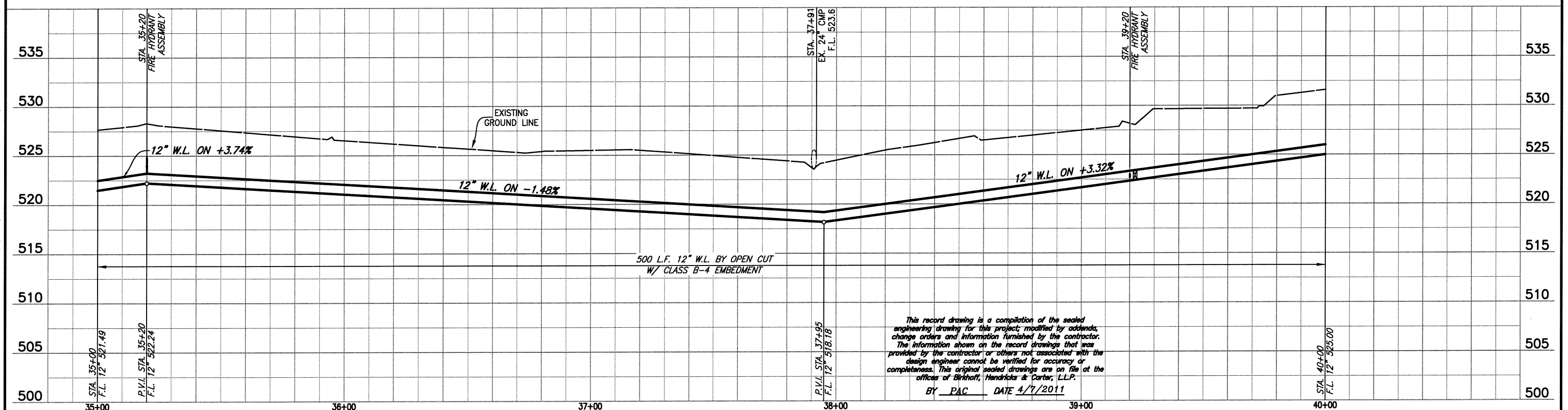
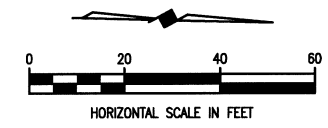
N 7036118.8145
E 2599404.5986
STA. 39+20
FURNISH & INSTALL:
1-12"x6" TEE
1-6" GATE VALVE
1-12" GATE VALVE
6 L.F. 6" WATERLINE
1-FIRE HYDRANT

N 7035719.0926
E 2599418.5235
STA. 35+20
FURNISH & INSTALL:
1-12"x6" TEE (UP)
1-12" 90° BEND
1-6" GATE VALVE
6 L.F. 6" WATERLINE
1-FIRE HYDRANT

LEGEND



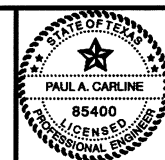
CAUTION!!
MT. ZION WSC WATERLINE IN AREA.
CONTACT DWIGHT LINDOP AT
972-670-9091 FOR LOCATES PRIOR
TO EXCAVATING IN THIS AREA.



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BY PAC DATE 4/7/2011

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PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900



[Signature]
4/11/11

CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 35+00 TO STA. 40+00

BHC PROJECT NO. 2007-129	SHEET NO. 27
April 2011	

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MATCH LINE STA. 40+00
N 7036198.8108, E 2599403.8328

MATCH LINE STA. 45+00
N 7036694.4159, E 2599449.1826

N 7036198.9454
E 2599403.8315
P.I. STA. 40+00.13
Δ = 06°24'08" RT.
PULL PIPE

N 7036266.2307
E 2599410.7298
P.I. STA. 40+67.77
Δ = 06°25'54" RT.
PULL PIPE

N 7036417.8611
E 2599443.7498
P.I. STA. 42+22.96
Δ = 06°45'04" LT.
PULL PIPE

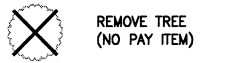
N 7036449.7551
E 2599446.8401
STA. 42+55
FURNISH & INSTALL:
1-12"x8" TEE
1-6" GATE VALVE
1-8" GATE VALVE
6 L.F. 6" WATERLINE
6 L.F. 8" WATERLINE
1-FIRE HYDRANT
1-8" PLUG

N 7036513.5162
E 2599453.018
P.I. STA. 43+19.06
Δ = 06°44'56" LT.
PULL PIPE

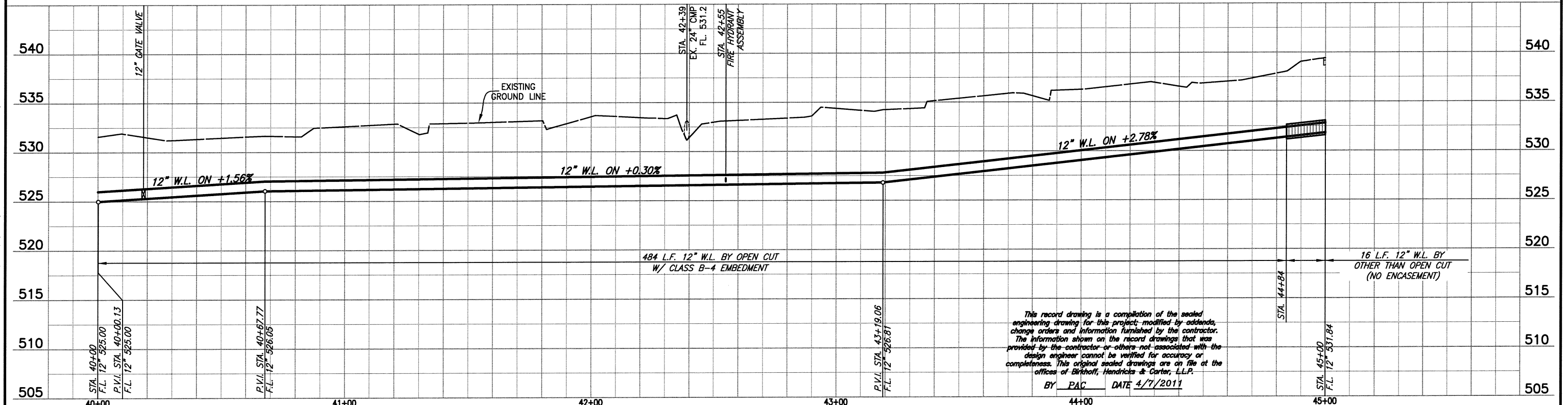
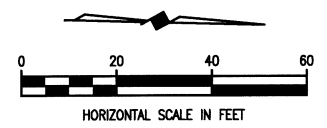
FURNISH & INSTALL:
12-INCH WATERLINE

STA. 44+84 TO STA. 45+00
FURNISH & INSTALL
16 L.F. 12" WATERLINE
BY OTHER THAN OPEN CUT
(NO ENCASEMENT)

LEGEND



CAUTION !!
MT. ZION WSC WATERLINE IN AREA.
CONTACT DWIGHT LINDOP AT
972-670-9091 FOR LOCATES PRIOR
TO EXCAVATING IN THIS AREA.



FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

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Texas Firm 526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900

CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 40+00 TO STA. 45+00

BHC PROJECT NO. 2007-129	SHEET NO. 28
April, 2011	

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N 7036784.7081
E 2599447.2683
P.I. STA. 45+90.31
 $\Delta = 90^{\circ}00'00"$ RT.
FURNISH & INSTALL
1-12"x12"x12" CROSS
1-12"x6" REDUCER
1-6" GATE VALVE
2-12" GATE VALVE
6 L.F. 6" WATERLINE
1- FIRE HYDRANT
1-12" PLUG

FURNISH & INSTALL:
12-INCH WATERLINE

N 7036790.4669
E 2599718.8948
STA. 48+62
FURNISH & INSTALL:
8 L.F. 2" WATER SERVICE
ASSEMBLY

N 7036791.5704
E 2599766.8818
P.I. STA. 49+10
FURNISH & INSTALL
1-12"x6" TEE
1-6" GATE VALVE
6 L.F. 6" WATERLINE
1- FIRE HYDRANT

N 7036791.2724
E 2599756.8862
P.I. STA. 49+00
 $\Delta = 00^{\circ}29'35"$ LT.
PULL PIPE

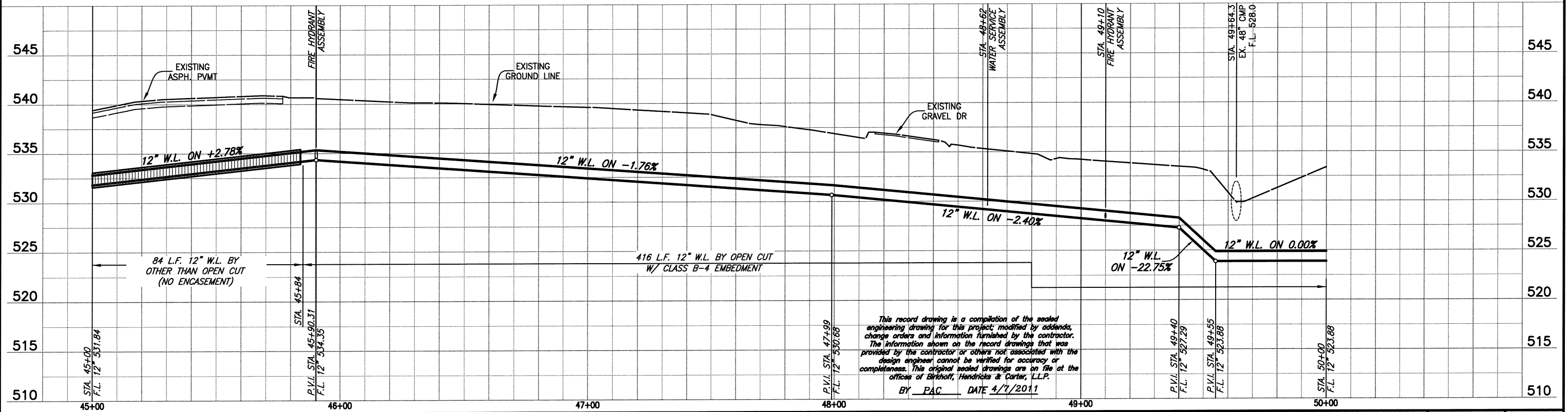
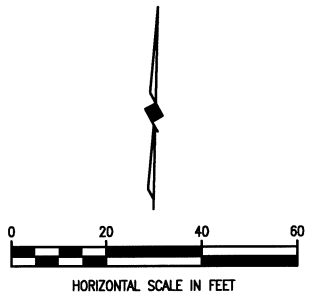
STA. 45+00 TO STA. 45+84
FURNISH & INSTALL
84 L.F. 12" W.L. BY OTHER THAN
OPEN CUT (NO ENCASEMENT)

REMOVE & REPLACE
12 S.Y. GRAVEL
DRIVEWAY

REMOVE & REPLACE
MAILBOX (NO PAY
ITEM)

LEGEND
 REMOVE TREE
(NO PAY ITEM)

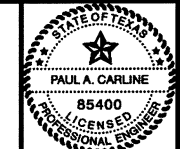
CAUTION!!
MT. ZION WSC WATERLINE IN AREA.
CONTACT DWIGHT LINDOP AT
972-670-9091 FOR LOCATES PRIOR
TO EXCAVATING IN THIS AREA.



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BY PAC DATE 4/7/2011

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PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900



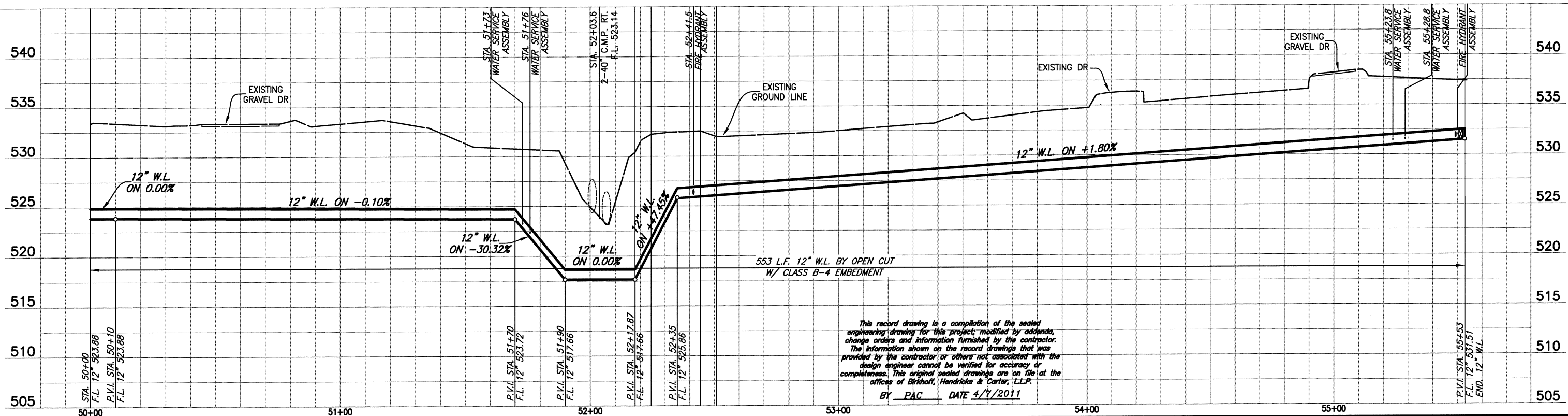
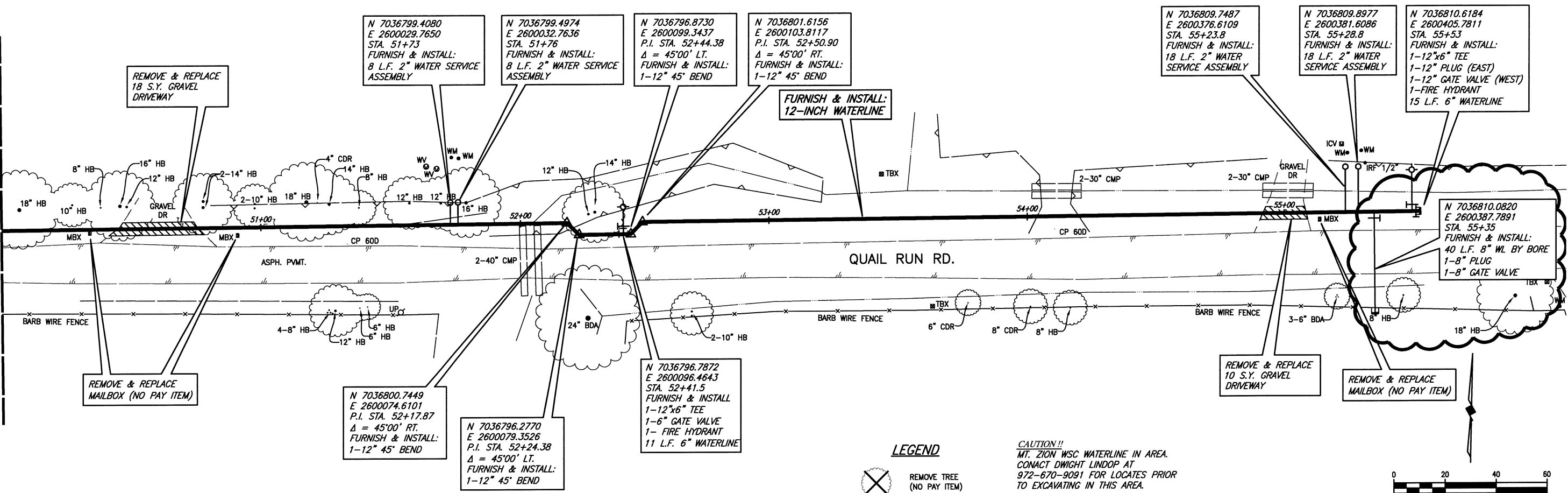
Handwritten signature and date: 11/7/09

CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 45+00 TO STA. 50+00

BHC PROJECT NO. 2007-129
April, 2011
SHEET NO. 29

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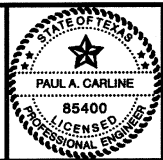
N 7036794.2525, E 2599856.8418
MATCH LINE STA. 50+00



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BY PAC DATE 4/7/2011

FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900

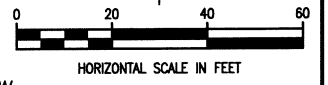
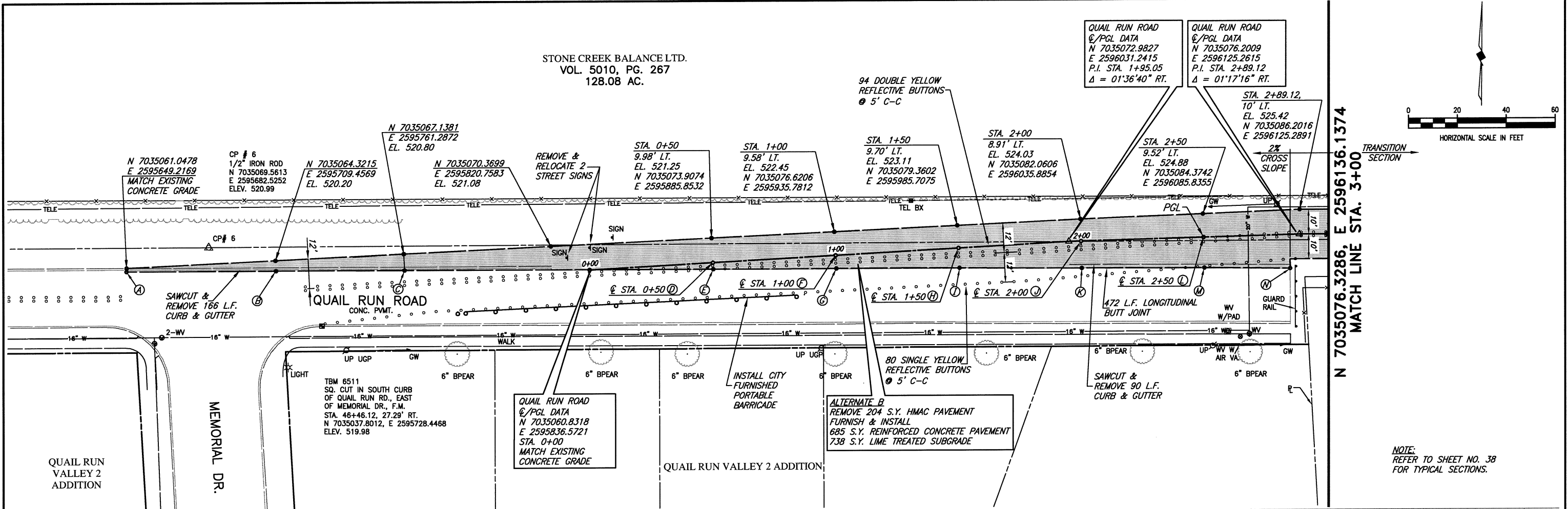


[Signature]
4/11/11

CITY OF ROCKWALL, TEXAS
QUAIL RUN WATER LINE
PLAN-PROFILE STA. 50+00 TO STA. 55+00

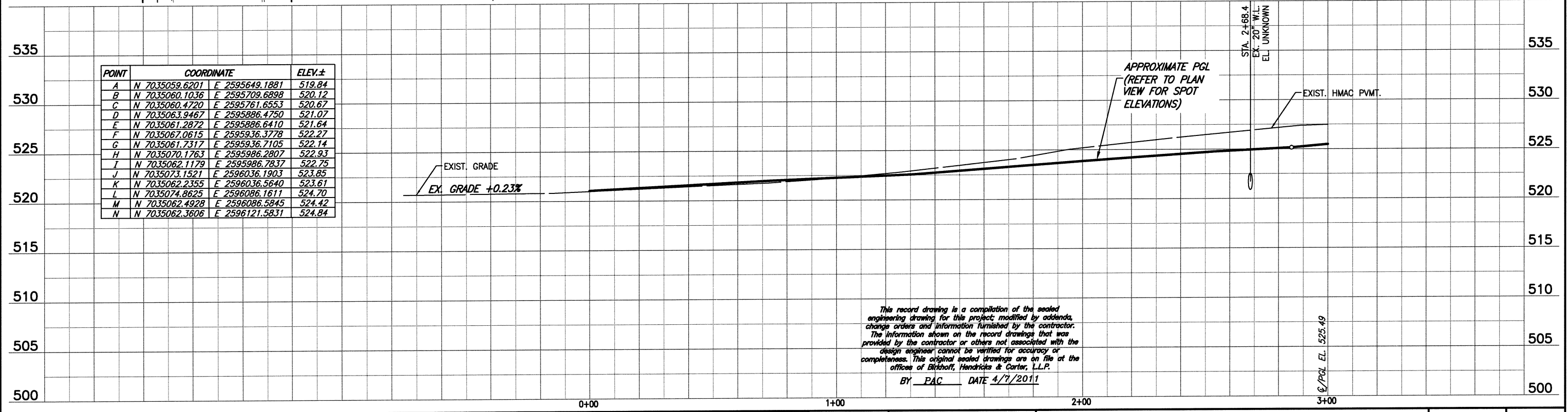
BHC PROJECT NO. 2007-129	SHEET NO. 29A
April, 2011	

STONE CREEK BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.



N 7035076.3286, E 2596136.1374
MATCH LINE STA. 3+00

NOTE: REFER TO SHEET NO. 38 FOR TYPICAL SECTIONS.



POINT	COORDINATE	ELEV.±
A	N 7035059.6201 E 2595649.1881	519.84
B	N 7035060.1036 E 2595709.6898	520.12
C	N 7035060.4720 E 2595761.6553	520.67
D	N 7035063.9467 E 2595886.4750	521.07
E	N 7035061.2872 E 2595886.6410	521.64
F	N 7035067.0615 E 2595936.3778	522.27
G	N 7035061.7317 E 2595936.7105	522.14
H	N 7035070.1763 E 2595986.2807	522.93
I	N 7035062.1179 E 2595986.7837	522.75
J	N 7035073.1521 E 2596036.1903	523.85
K	N 7035062.2355 E 2596036.5640	523.61
L	N 7035074.8625 E 2596086.1611	524.70
M	N 7035062.4928 E 2596086.5845	524.42
N	N 7035062.3606 E 2596121.5831	524.84

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FIELD CHANGE NO. 1 - NOVEMBER 17, 2009 CHANGE ORDER NO. 4 - JUNE 3, 2010	BIRKHOFF, HENDRICKS & CONWAY, L.L.P. PROFESSIONAL ENGINEERS Texas Firm F526 11910 Greenville Ave., Suite 600 Dallas, Texas 75243 (214) 361-7900	 6/7/10	CITY ROCKWALL, TEXAS QUAIL RUN ROAD PAVING PLAN AND PROFILE STA. 0+00 TO STA. 3+00	BHC PROJECT NO. 2007-110 June 2010	SHEET NO. 30
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MATCH LINE STA. 3+00
N 7035076.3286, E 2596136.1374

N 7035081.2434, E 2596636.0959
MATCH LINE STA. 8+00

STONE CREEK BALANCE LTD.
VOL. 5010, PG. 267
128.08 AC.

QUAIL RUN ROAD
@/PGL DATA
N 7035078.1251
E 2596289.1483
P.I. STA. 4+53.02
Δ = 00°33'56" RT.

QUAIL RUN ROAD
@/PGL DATA
N 7035078.3927
E 2596432.2044
P.I. STA. 5+96.08
Δ = 00°18'35" LT.

FURNISH & INSTALL
4 L.F. 12" P.V.C.
GRADE TO DRAIN

QUAIL RUN ROAD
@/PGL DATA
N 7035079.4339
E 2596575.2768
P.I. STA. 1+95.05
Δ = 01°17'14" LT.

PROP. 12"
WATERLINE
(SEE SHEETS
20-28)

ROY L. HANCE
VOL. 91, PG. 107
38.64 AC.

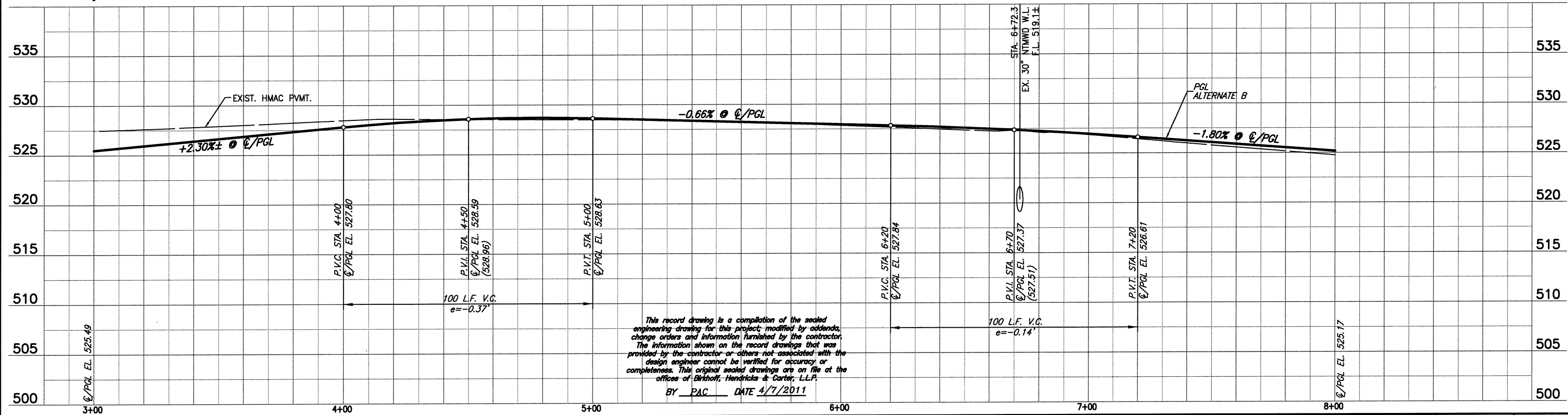
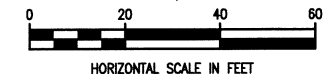
ALTERNATE B
REMOVE 582 S.Y. HMAC PAVEMENT
FURNISH & INSTALL
1,160 S.Y. REINFORCED CONCRETE PAVEMENT
1,275 S.Y. LIME TREATED SUBGRADE

CP # 7
PKF W/C&B PROP.
N 7035075.3062
E 2596543.4677
ELEV. 527.07

POINT	COORDINATE	
A	N 7035088.6559	E 2596496.7760
B	N 7035092.1223	E 2596501.5146
C	N 7035092.1223	E 2596501.5146
D	N 7035092.1223	E 2596501.5146
E	N 7035088.6009	E 2596519.1845
F	N 7035095.9984	E 2596528.6915
G	N 7035098.8783	E 2596529.4675
H	N 7035098.8783	E 2596555.4169
I	N 7035089.2906	E 2596565.5571
J	N 7035068.6484	E 2596494.9722
K	N 7035065.9083	E 2596499.4528
L	N 7035065.3628	E 2596499.7291
M	N 7035065.3628	E 2596517.5002
N	N 7035068.6424	E 2596522.1207

NOTE:
REFER TO SHEET NO. 38
FOR TYPICAL SECTIONS.

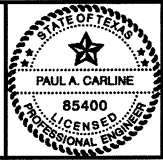
CAUTION!!
NTMWD WATER LINE IN AREA.
CONTACT NTMWD AT 972-442-5405
FOR LOCATES & APPROVAL PRIOR TO
EXCAVATING IN THIS AREA.



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BY PAC DATE 4/7/2011

FIELD CHANGE NO. 1 - NOVEMBER 17, 2009
CHANGE ORDER NO. 4 - JUNE 7, 2010

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS
Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas 75243 (214) 361-7900



[Signature]
6/7/10

CITY ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING
PLAN AND PROFILE
STA. 3+00 TO STA. 8+00

BHC PROJECT NO. 2007-110	SHEET NO. 31
April 2011	

MATCH LINE STA. 8+00
N 7035081.2434, E 2596636.0959

N 7035093.7957, E 2597135.9319
MATCH LINE STA. 13+00

ROY L. HANCE
TRACT 2-1
83.794 AC.

ROY L. HANCE
VOL. 91, PG. 107
38.64 AC.

QUAIL RUN ROAD
@/PGL DATA
N 7035085.9771
E 2596795.2031
P.I. STA. 9+59.18
 $\Delta = 00^{\circ}10'31''$ RT.

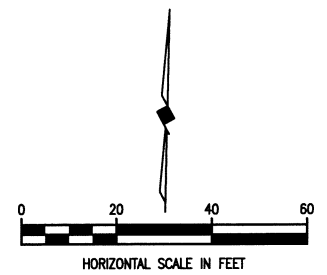
FURNISH & INSTALL
1 L.F. 24" C.M.P. (N)
W/ CH-PW-O HEADWALL
2 L.F. 24" C.M.P. (S)
W/ CH-PW-O HEADWALL
CONNECT TO EXISTING
24" C.M.P. (N & S)
GRADE TO DRAIN

PROP. 12" WATERLINE
(SEE SHEETS 20-28)

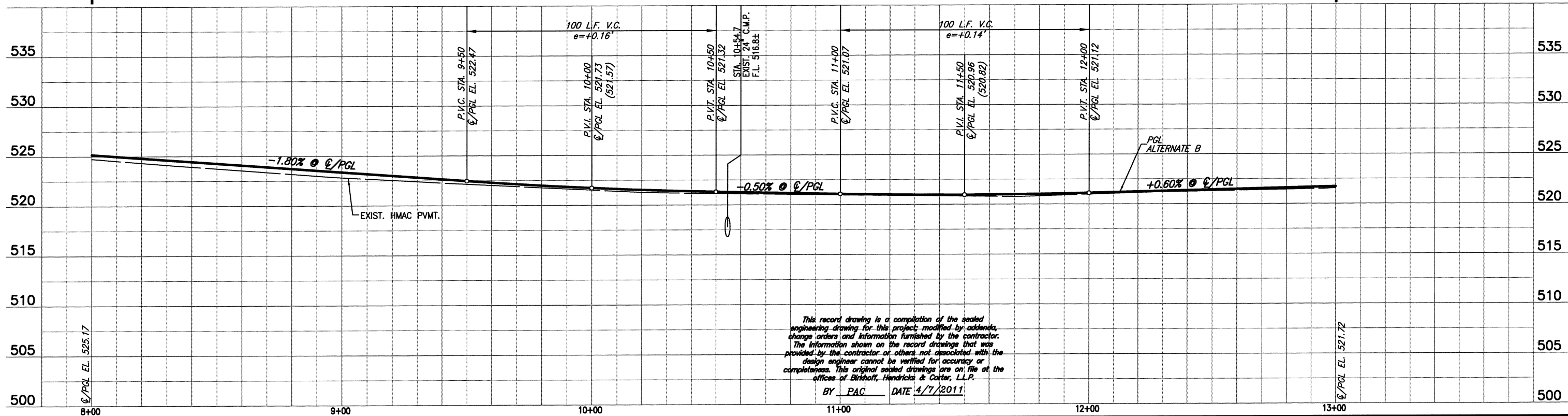
QUAIL RUN ROAD
@/PGL DATA
N 7035091.6490
E 2597007.7059
P.I. STA. 11+71.76
 $\Delta = 00^{\circ}34'11''$ RT.

PROP. 30" FORCE MAIN
(SEE SHEETS 3-19)

ALTERNATE B
REMOVE 450 S.Y. HMAC PAVEMENT
FURNISH & INSTALL
1,115 S.Y. REINFORCED CONCRETE PAVEMENT
1,225 S.Y. LIME TREATED SUBGRADE



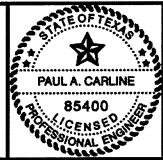
NOTE:
REFER TO SHEET NO. 37
FOR TYPICAL SECTIONS.



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BY PAC DATE 4/7/2011

FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

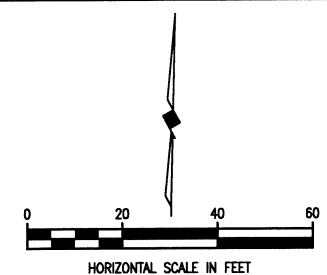
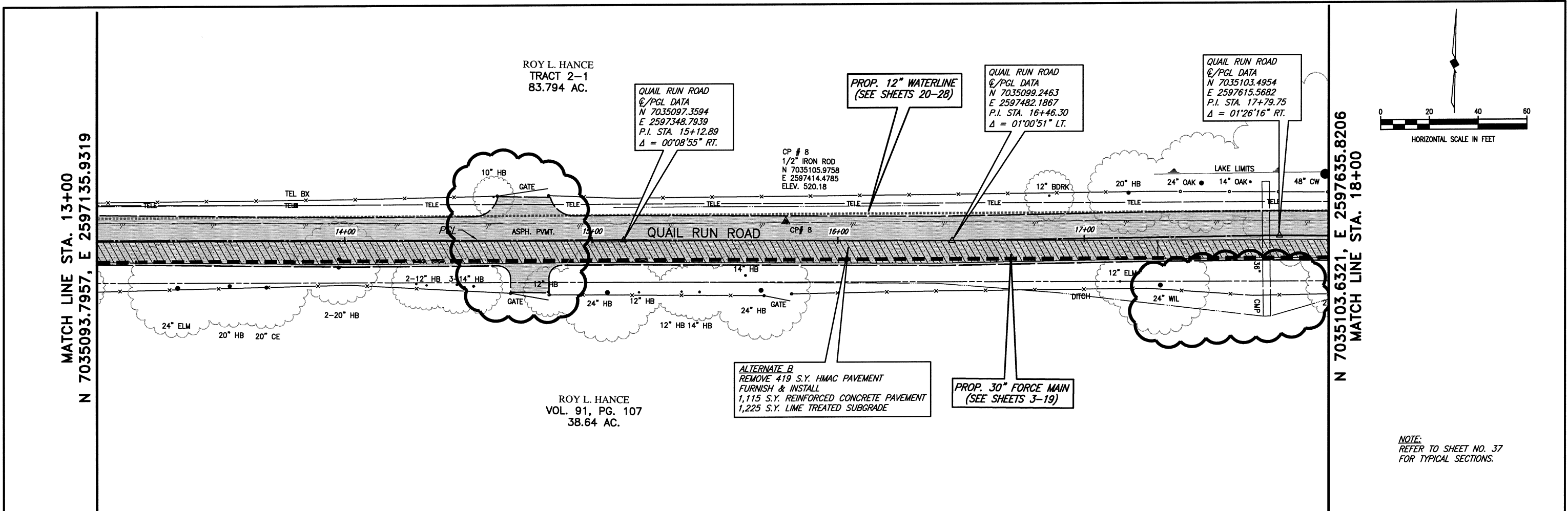
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS



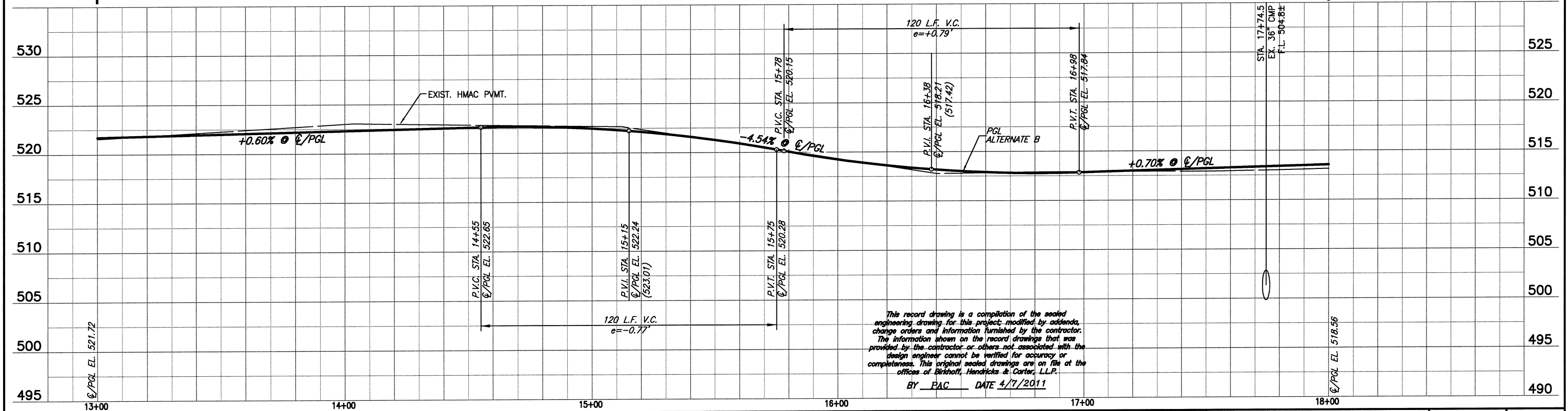
Signature
11/17/09

CITY ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING
PLAN AND PROFILE
STA. 8+00 TO STA. 13+00

BHC
PROJECT NO. 2007-110
July 2009
SHEET NO. **32**



NOTE:
REFER TO SHEET NO. 37
FOR TYPICAL SECTIONS.



FIELD CHANGE NO. 1 - NOVEMBER 17, 2009	BIRKHOFF, HENDRICKS & CONWAY, L.L.P. PROFESSIONAL ENGINEERS			CITY ROCKWALL, TEXAS QUAIL RUN ROAD PAVING	BHC PROJECT NO. 2007-110	SHEET NO. 33
					PLAN AND PROFILE STA. 13+00 TO STA. 18+00	July 2009

ROY L. HANCE
TRACT 2-1
83.794 AC.

QUAIL RUN ROAD
@/PGL DATA
N 7035105.0419
E 2597844.6740
P.I. STA. 20+08.86
 $\Delta = 00^{\circ}53'00''$ LT.

PROP. 12" WATERLINE
(SEE SHEETS 20-28)

FURNISH & INSTALL
3 L.F. 15" C.M.P. (N)
W/ CH-PW-O HEADWALL
4 L.F. 15" C.M.P. (S)
CONNECT TO EXIST. 15"
C.M.P. (N & S)
GRADE TO DRAIN

QUAIL RUN ROAD
@/PGL DATA
N 7035110.1067
E 2598073.0969
P.I. STA. 22+37.34
 $\Delta = 00^{\circ}55'21''$ RT.

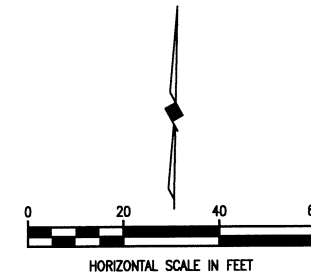
ALTERNATE B
REMOVE 433 S.Y. HMAC PAVEMENT
FURNISH & INSTALL
1,185 S.Y. REINFORCED CONCRETE PAVEMENT
1,290 S.Y. LIME TREATED SUBGRADE

PROP. 30" FORCE MAIN
(SEE SHEETS 3-19)

ROY L. HANCE
VOL. 91, PG. 107
38.64 AC.

L.L. LEONARD ADDITION
CAB. A, SLIDE 336
5.165 AC.

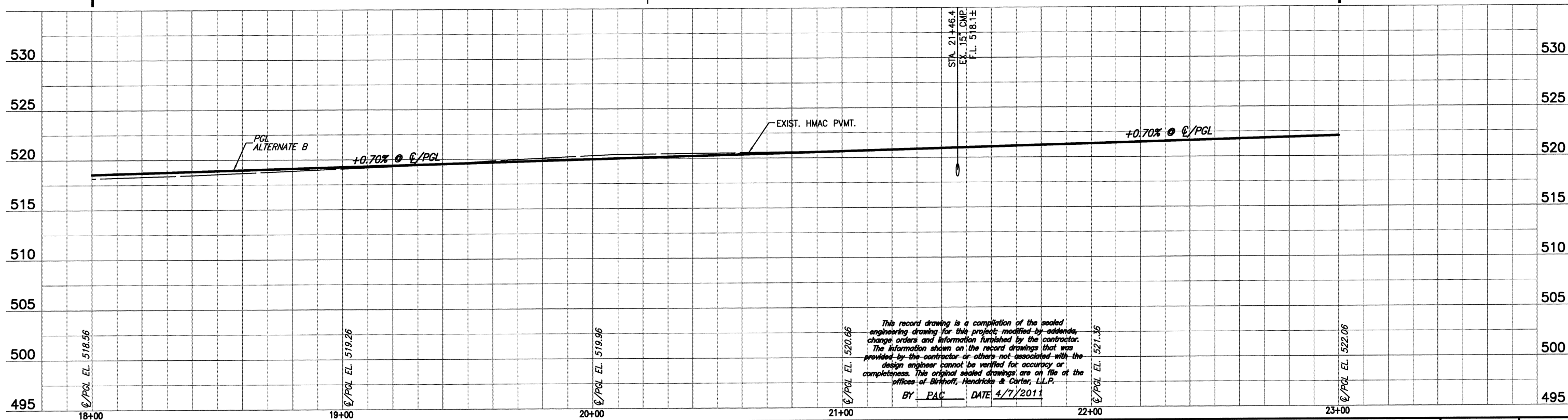
POINT	COORDINATE	
A	N 7035114.2143	E 2597722.0319
B	N 7035119.0698	E 2597726.9960
C	N 7035119.0697	E 2597748.7411
D	N 7035117.3178	E 2597749.5581
E	N 7035114.4309	E 2597754.1235
F	N 7035100.1063	E 2598073.1920
G	N 7035099.2697	E 2598075.9457
H	N 7035075.1994	E 2598088.4655
I	N 7035075.2662	E 2598099.4732
J	N 7035080.6842	E 2598099.4108
K	N 7035097.2215	E 2598107.4506
L	N 7035100.0352	E 2598111.9055
M	N 7035117.5214	E 2597956.3882
N	N 7035121.0981	E 2597959.8097
O	N 7035121.3531	E 2597971.3069
P	N 7035117.9315	E 2597974.8836



MATCH LINE STA. 18+00
N 7035103.6321, E 2597635.8206

N 7035110.4871, E 2598135.7585
MATCH LINE STA. 23+00

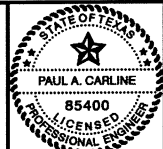
NOTE:
REFER TO SHEET NO. 37
FOR TYPICAL SECTIONS.



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BY PAC DATE 4/7/2011

FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS



Signature
11/17/09

CITY ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING
PLAN AND PROFILE
STA. 18+00 TO STA. 23+00

BHC
PROJECT NO.
2007-110
July 2009
SHEET NO.
34

LONNIE L. GIDEON
VOL. 307, PG. 259
70.658 AC.

QUAIL RUN ROAD
@/PGL DATA
N 7035125.6143
E 2598988.7551
P.I. STA. 31+53.17
 $\Delta = 00'07'23''$ RT.

PROP. 12" WATERLINE
(SEE SHEETS 20-28)

QUAIL RUN ROAD
@/PGL DATA
N 7035123.7250
E 2598763.7686
P.I. STA. 29+28.17
 $\Delta = 00'47'22''$ RT.

FURNISH & INSTALL
4 L.F. 12" C.M.P. (E)
CONNECT TO EXIST. 42"
C.M.P. (E)
GRADE TO DRAIN

FURNISH & INSTALL
4 L.F. 42" C.M.P. (N)
W/ CH-PW-O HEADWALL
CONNECT TO EXIST. 42"
C.M.P. (N)
GRADE TO DRAIN

POINT	COORDINATE
A	N 7035132.3045, E 2598695.8390
B	N 7035134.9856, E 2598700.1648
C	N 7035135.7442, E 2598700.5616
D	N 7035135.7442, E 2598715.7432
E	N 7035132.8188, E 2598720.3978
F	N 7035112.7033, E 2598715.0895
I	N 7035113.1759, E 2598737.6549
J	N 7035113.9117, E 2598809.6099
K	N 7035110.6785, E 2598809.8156
L	N 7035110.6785, E 2598825.8693
M	N 7035111.9881, E 2598825.7769
N	N 7035114.0084, E 2598828.1936
O	N 7035115.6178, E 2598989.1577
P	N 7035112.1724, E 2598989.2009
Q	N 7035112.1724, E 2599005.9468
R	N 7035115.7904, E 2599006.8202

PROP. 30" FORCE MAIN
(SEE SHEETS 3-19)

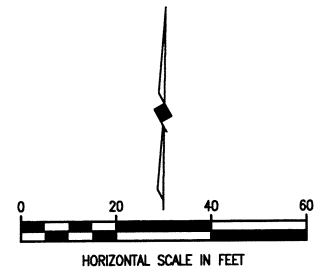
ALTERNATE B
REMOVE 394 S.Y. HMAC PAVEMENT
FURNISH & INSTALL
1,105 S.Y. REINFORCED CONCRETE PAVEMENT
1,210 S.Y. LIME TREATED SUBGRADE

REMOVE FLEX BASE
FURNISH & INSTALL
9 S.Y. 6" REINFORCED
CONCRETE DRIVEWAY

PROMISE LAND ADDITION
CAB. C, SLIDE 30
5.00 AC.

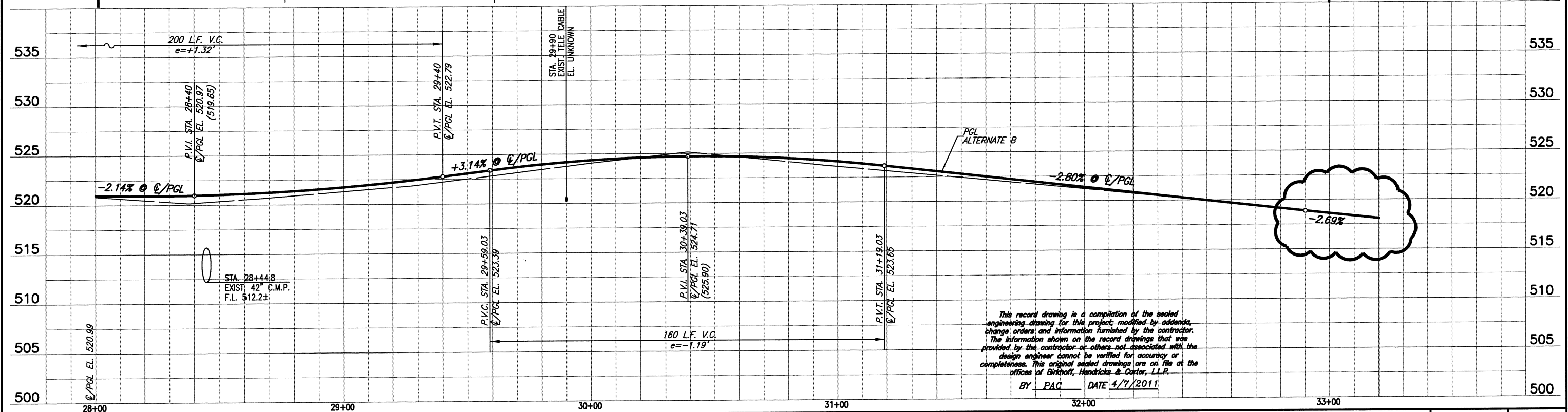
JOHN R. YINGLING & WIFE,
LYNELLE C. YINGLING
VOL. 817, PG. 76
1.00 AC.

KERRY CLOYCE GLOVER &
JoANN ADLIN GLOVER
VOL. 513, PG. 250
8.011 AC.



N 7035120.7268, E 2598635.6295
MATCH LINE STA. 28+00

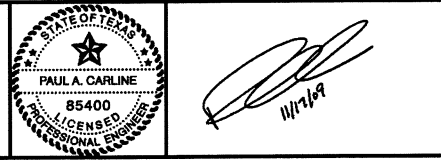
N 7035126.5318, E 2599135.5831
MATCH LINE STA. 33+00



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BY EAC DATE 4/7/2011

FIELD CHANGE NO. 1 - NOVEMBER 17, 2009

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS



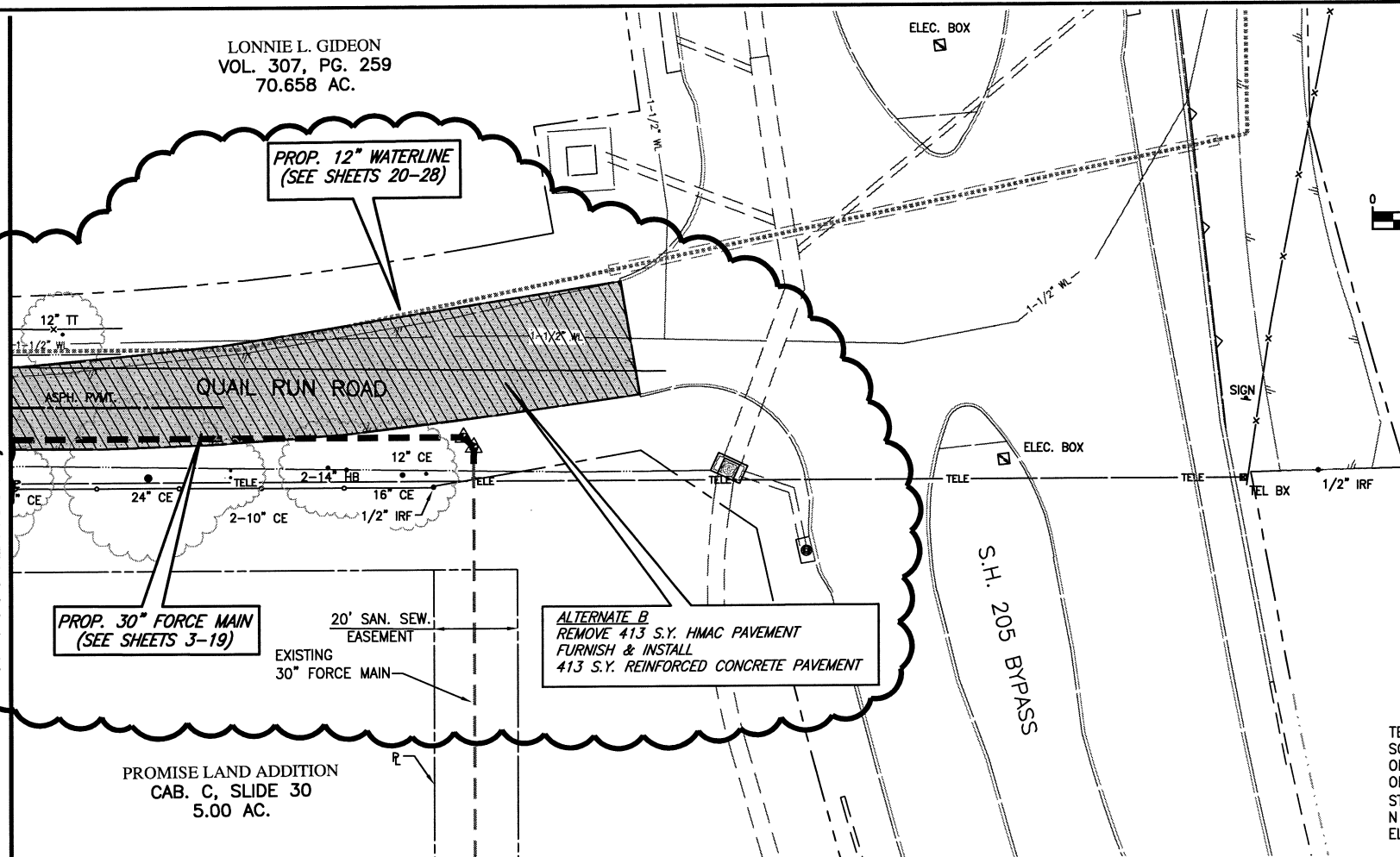
CITY ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING
PLAN AND PROFILE
STA. 28+00 TO STA. 32+90.07

BHC PROJECT NO. 2007-110	SHEET NO. 36
July 2009	

LONNIE L. GIDEON
VOL. 307, PG. 259
70.658 AC.

PROP. 12" WATERLINE
(SEE SHEETS 20-28)

MATCH LINE STA. 33+00
N 7035126.5318, E 2599135.5861

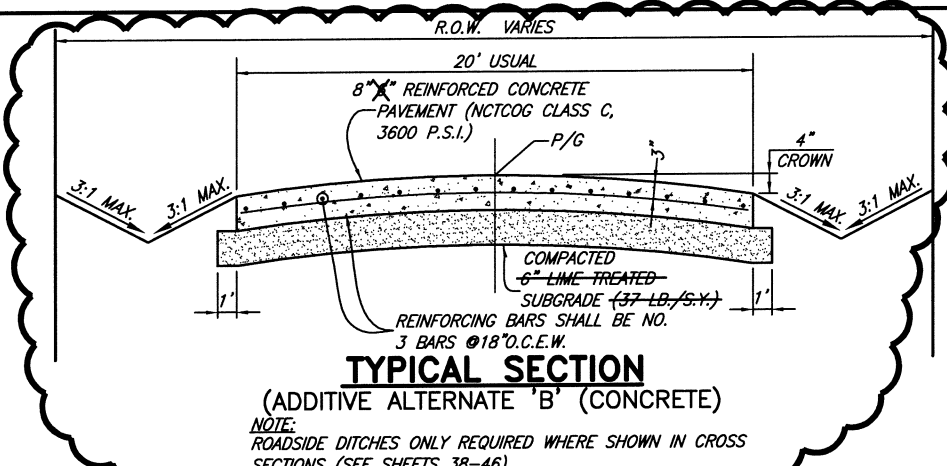
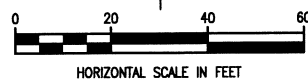


PROP. 30" FORCE MAIN
(SEE SHEETS 3-19)

ALTERNATE B
REMOVE 413 S.Y. H.M.A.C. PAVEMENT
FURNISH & INSTALL
413 S.Y. REINFORCED CONCRETE PAVEMENT

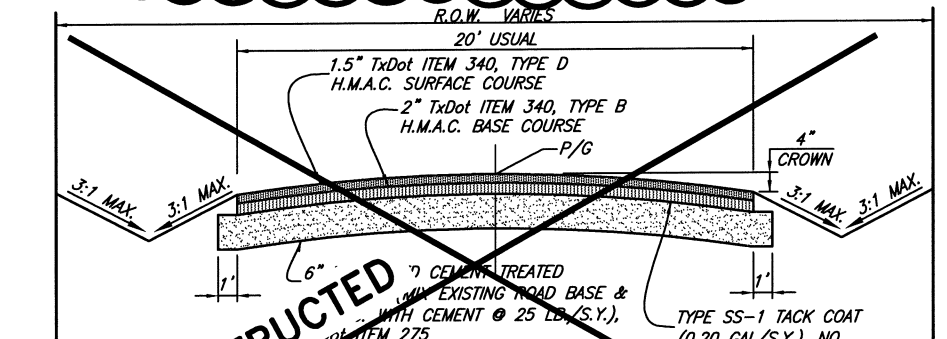
PROMISE LAND ADDITION
CAB. C, SLIDE 30
5.00 AC.

TBM 6511
SQ. CUT IN SOUTH CURB
OF QUAIL RUN RD., EAST
OF MEMORIAL DR., F.M.
STA. 46+46.12, 27.29' RT.
N 7035037.8012, E 2595728.4468
ELEV. 519.98



TYPICAL SECTION
(ADDITIVE ALTERNATE 'B' (CONCRETE))

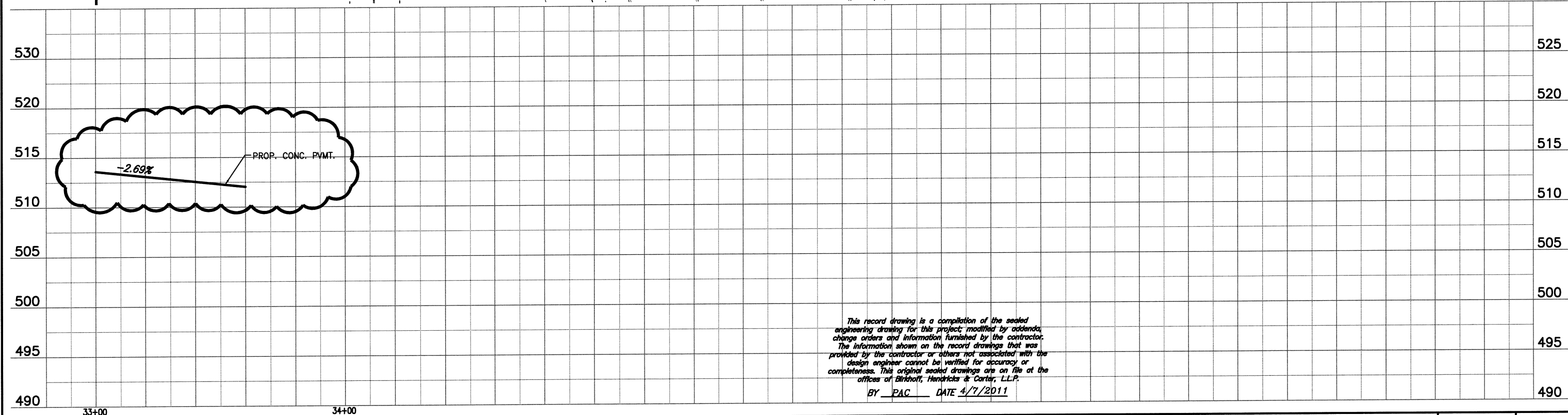
NOTE:
ROADSIDE DITCHES ONLY REQUIRED WHERE SHOWN IN CROSS
SECTIONS (SEE SHEETS 38-46)



TYPICAL SECTION
(ADDITIVE ALTERNATE 'A' (H.M.A.C.))

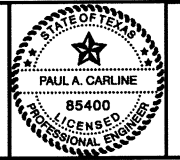
NOTE:
1. ROADSIDE DITCHES ONLY REQUIRED WHERE SHOWN IN
CROSS SECTIONS (SEE SHEETS 38-46)
2. PROFILE GRADE FOR ALTERNATE 'A' IS 3.5-INCHES HIGHER
THAN THAT SHOWN FOR ALTERNATE 'B'.

NOT CONSTRUCTED



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engineering drawing for this project, modified by addenda,
change orders and information furnished by the contractor.
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provided by the contractor or others not associated with the
design engineer cannot be verified for accuracy or
completeness. This original sealed drawings are on file at the
offices of Birkhoff, Hendricks & Carter, L.L.P.
BY PAC DATE 4/7/2011

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
PROFESSIONAL ENGINEERS



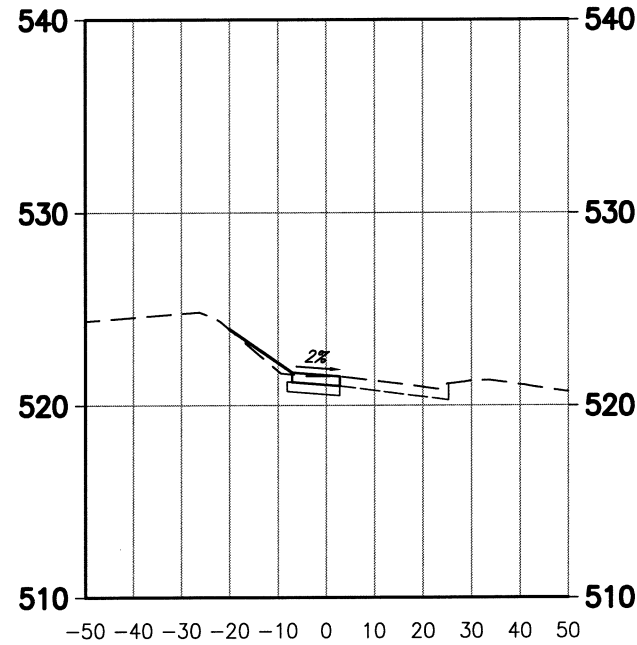
Paul A. Carline
7/29/10

CITY ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING
TYPICAL SECTIONS
PLAN AND PROFILE
STA. 33+00 TO STA. 33+60

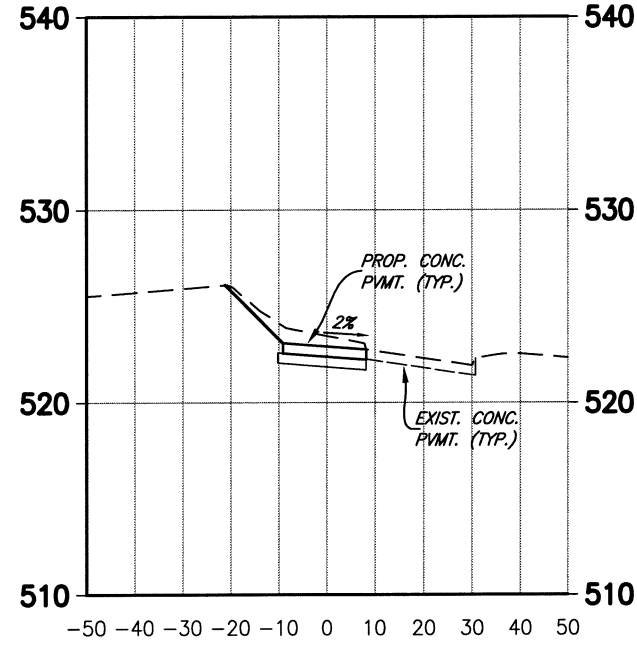
BHC
PROJECT NO.
2007-110
April 2011
SHEET NO.
37

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Birkhoff, Hendricks, & Conway, L.L.P.

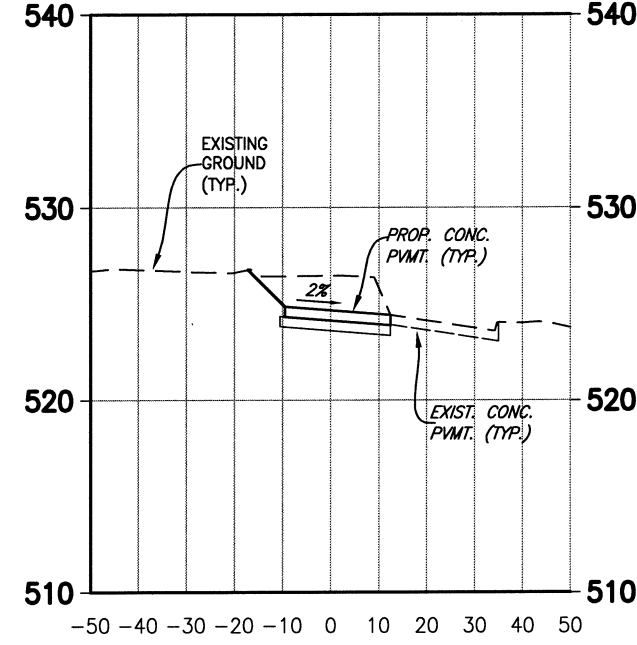
0+50.00



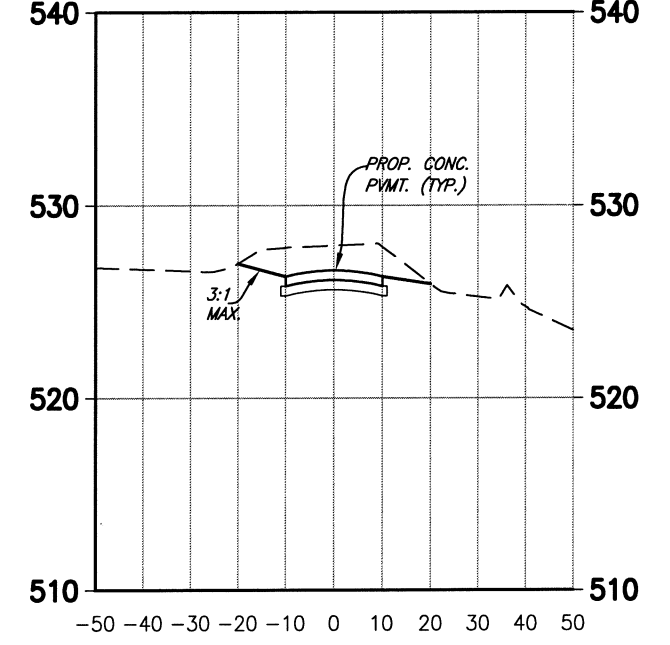
1+50.00



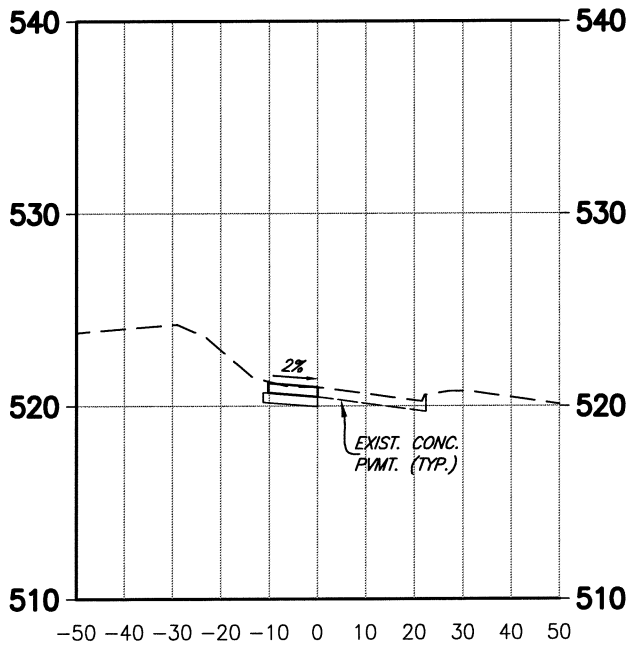
2+50.00



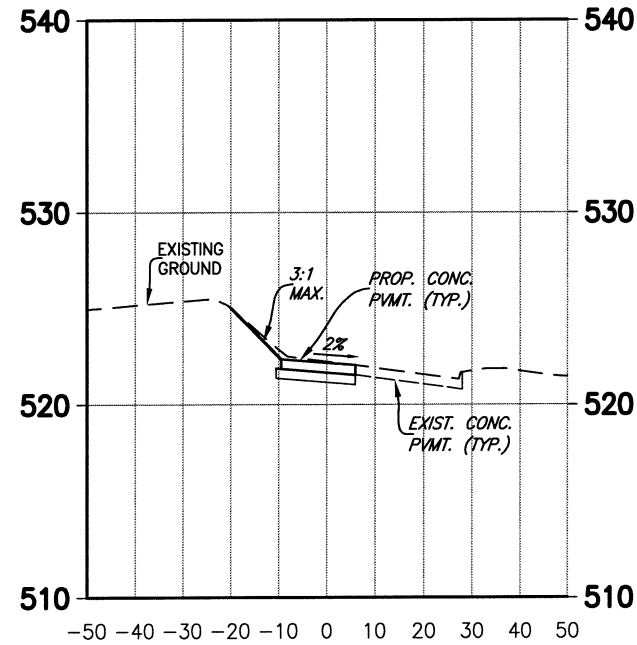
3+50.00



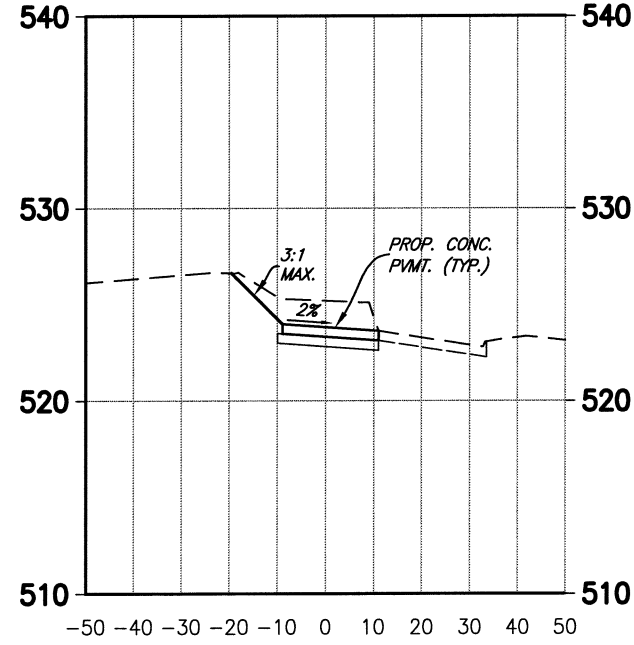
0+00.00



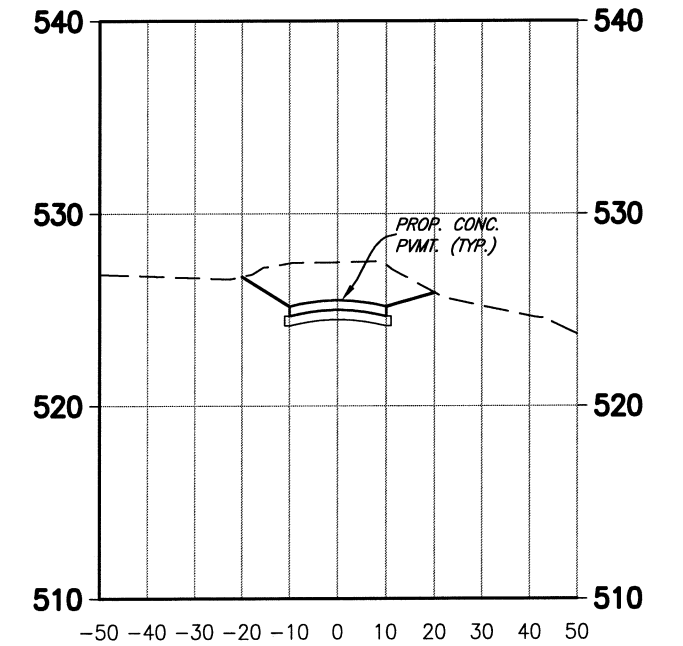
1+00.00



2+00.00



3+00.00

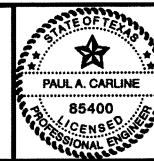


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BY PAC DATE 4/7/2011

CHANGE ORDER NO. 4 -- JUNE 7, 2010

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Texas Firm F526
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Dallas, Texas (214) 361-7900



[Signature]
4/7/10

CITY OF ROCKWALL, TEXAS
QUAIL RUN ROAD PAVING

CROSS SECTIONS
STA. 0+00 TO STA. 3+50

BHC
PROJECT NO.
2007-110

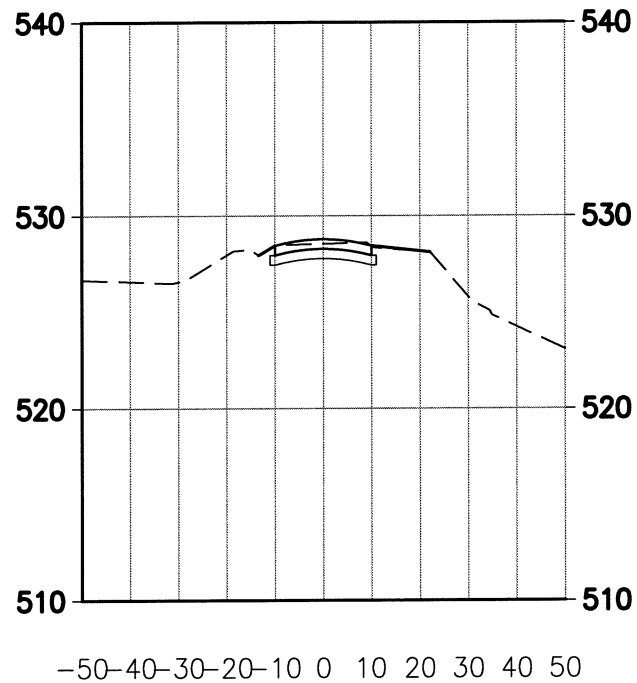
SHEET NO.

April, 2011

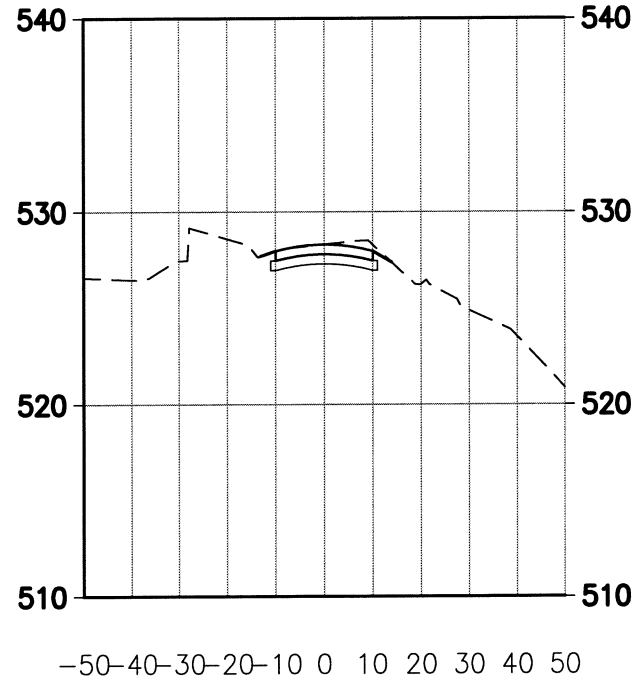
38

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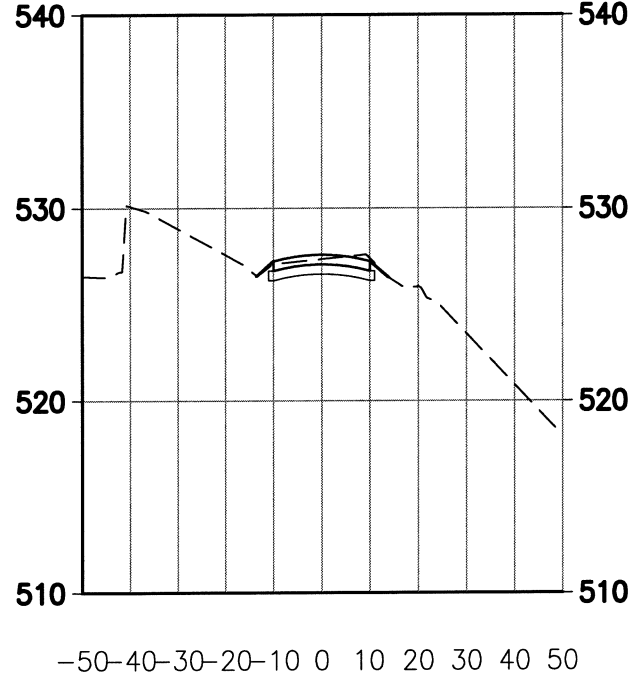
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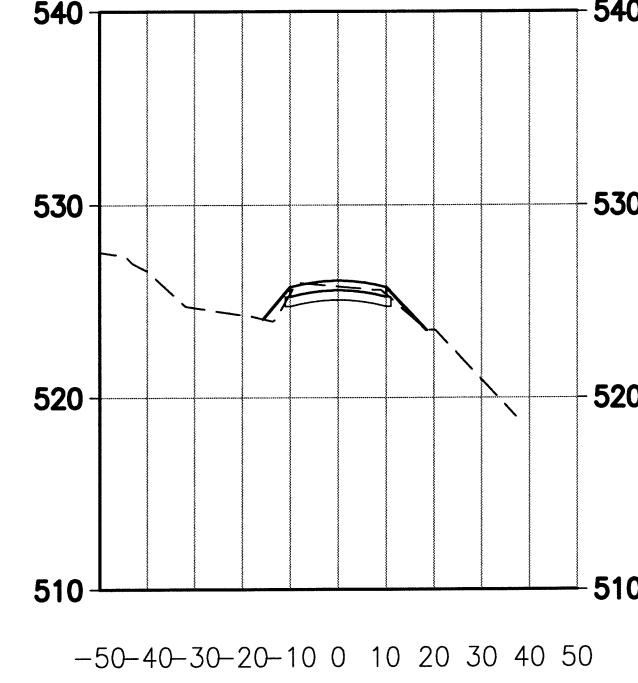
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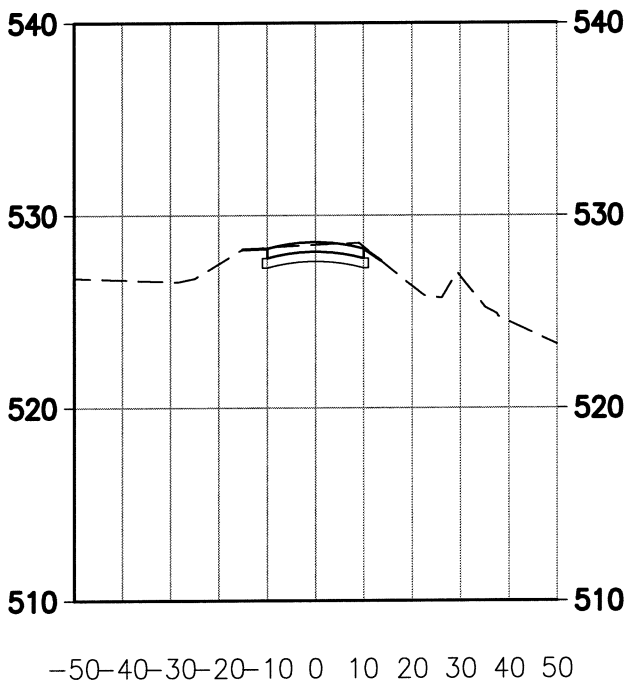
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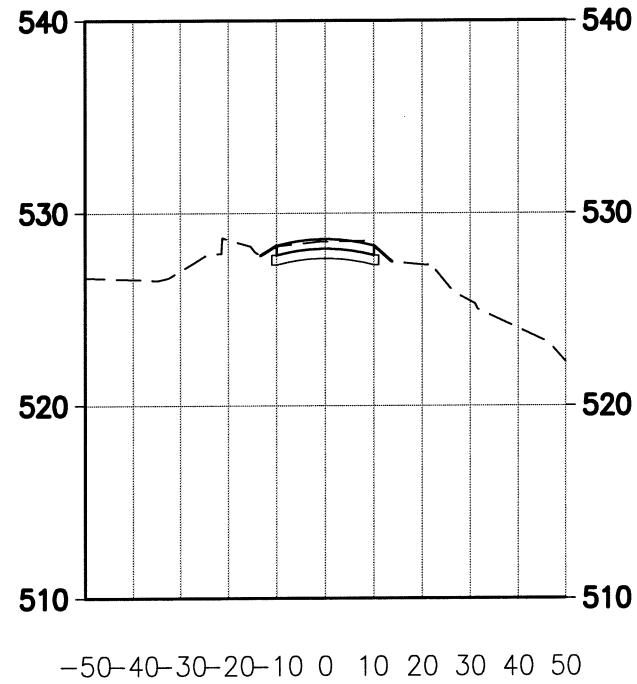
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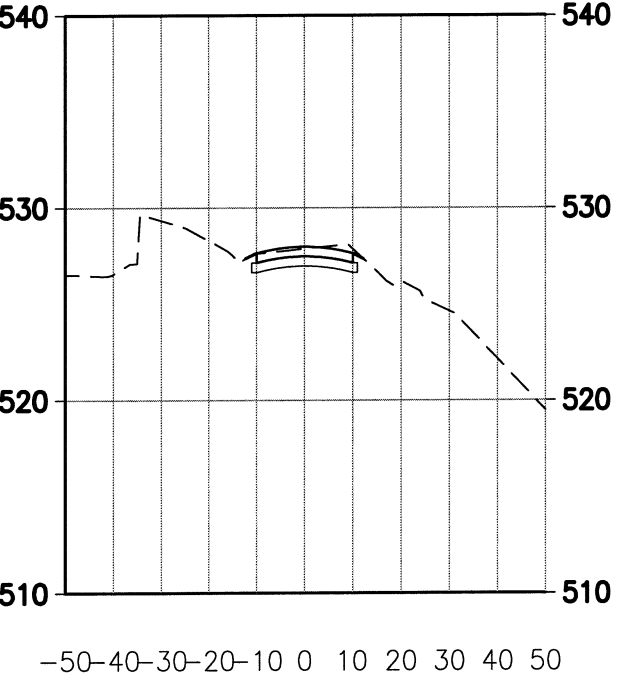
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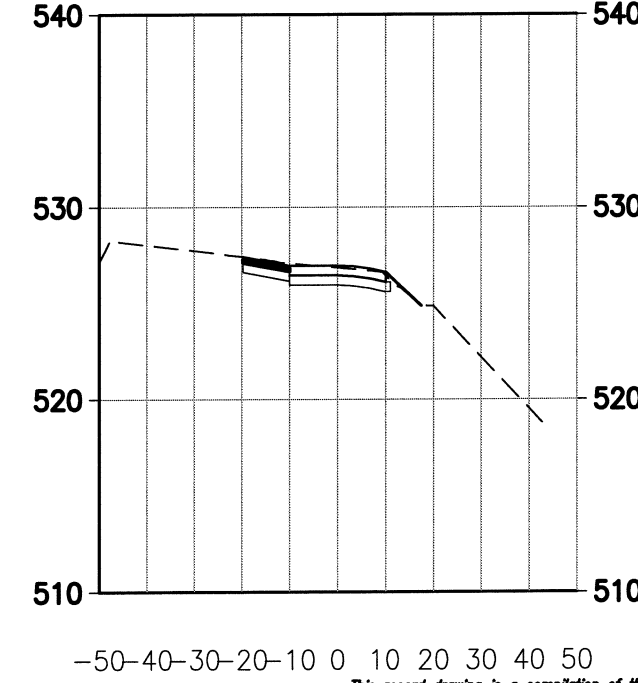
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6+00.00



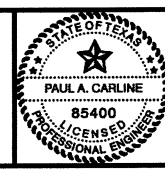
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7/29/11

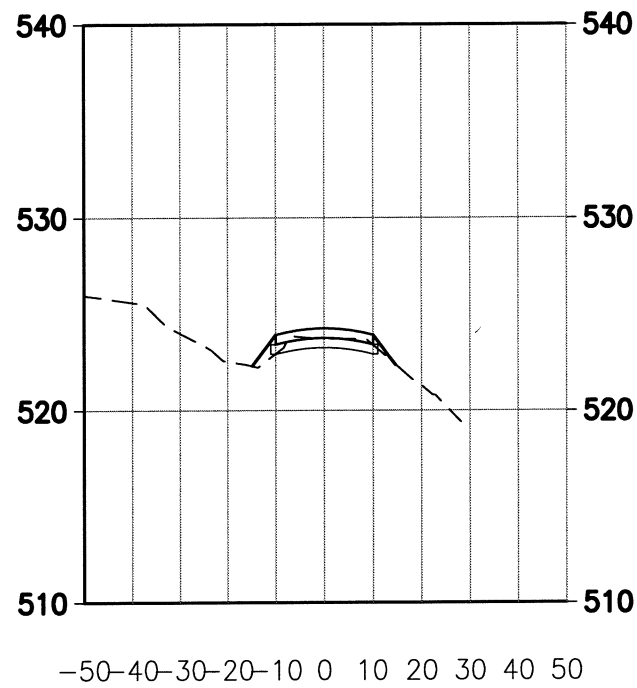
CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 4+00 TO STA. 7+50

BHC
 PROJECT NO.
 2007-110
 April, 2011

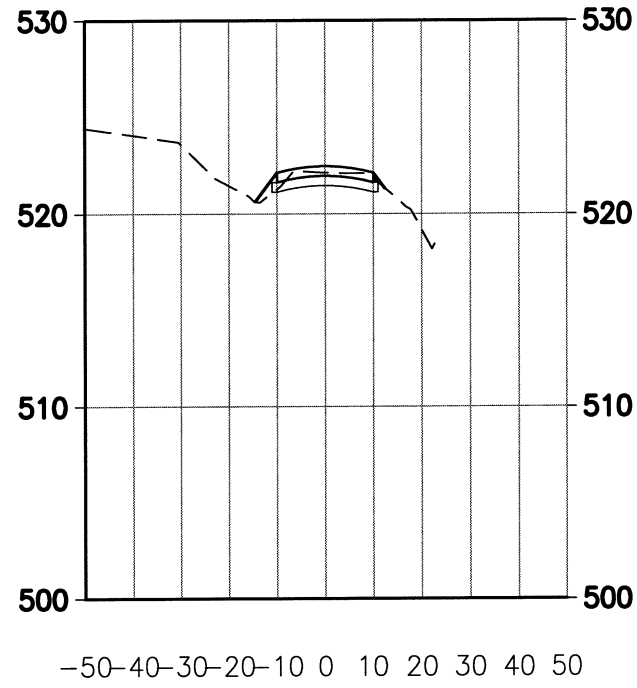
SHEET NO.
39

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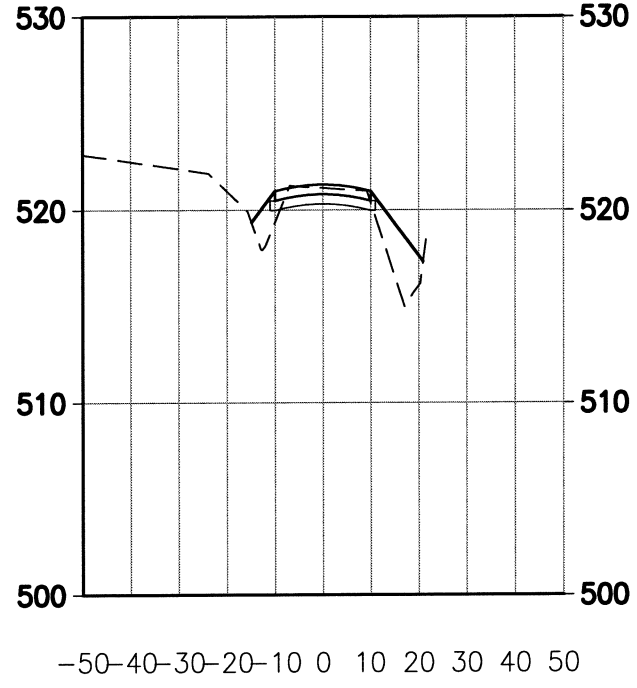
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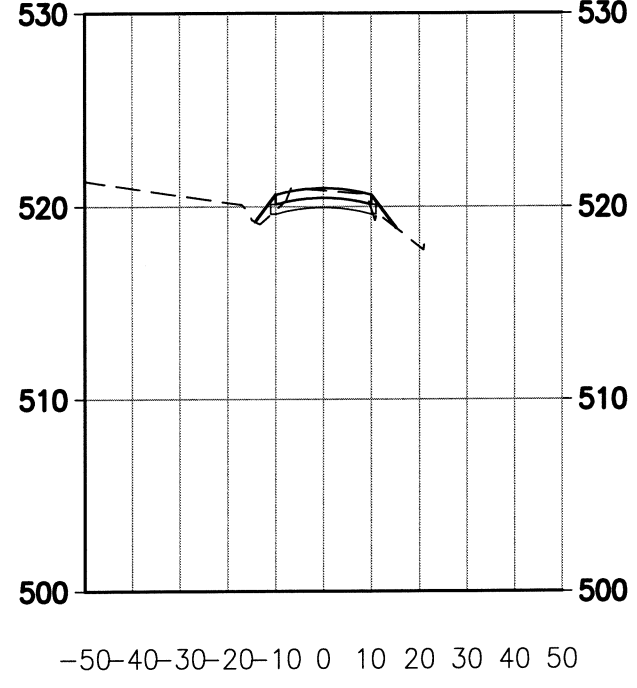
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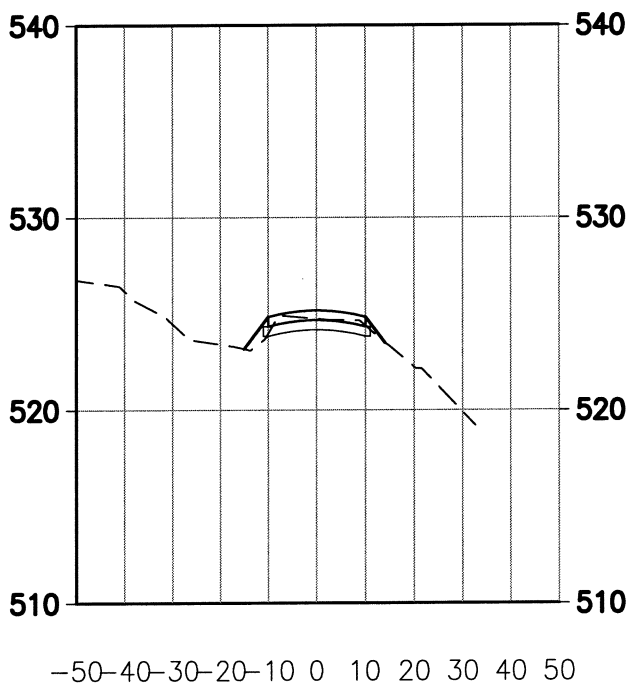
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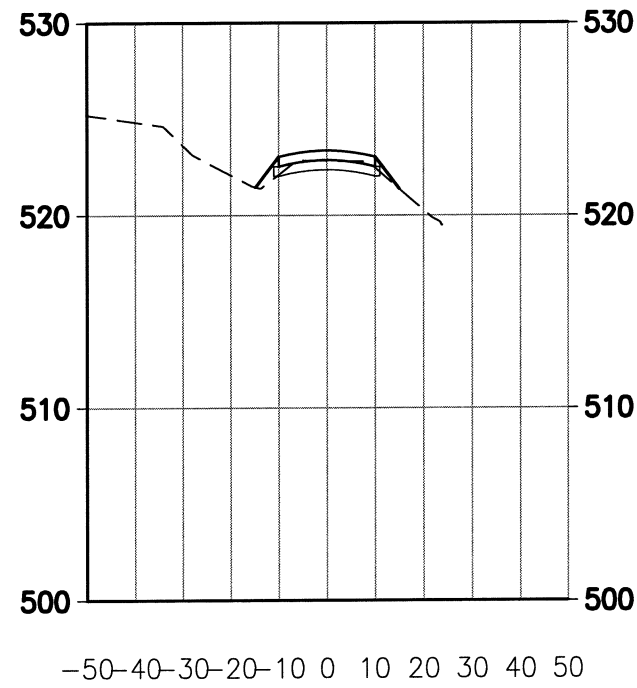
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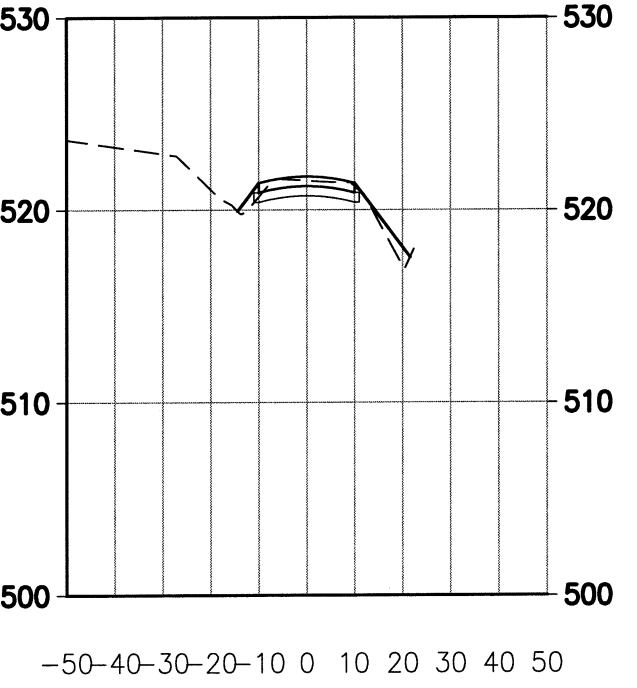
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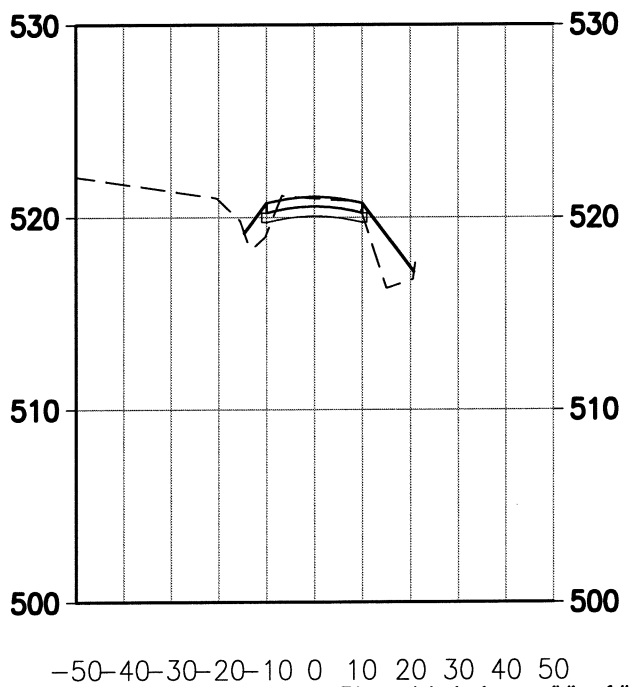
9+00.00



10+00.00



11+00.00



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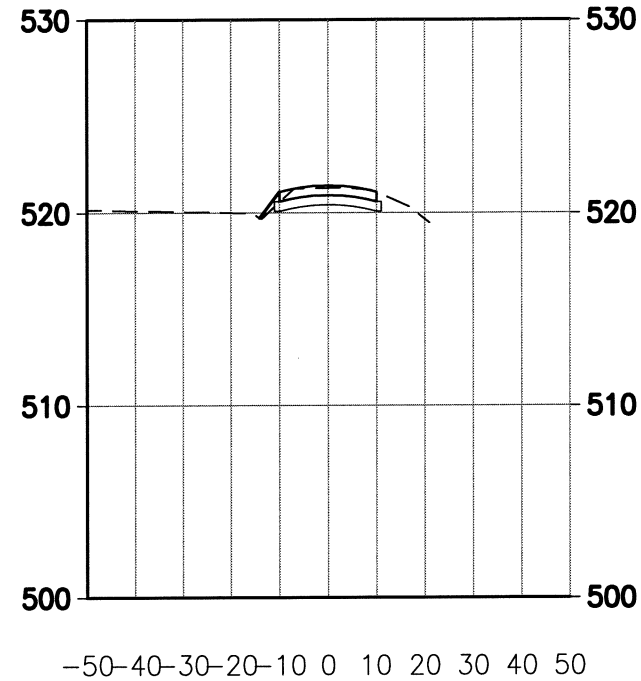
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 7/29/05

CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 8+00 TO STA. 11+50

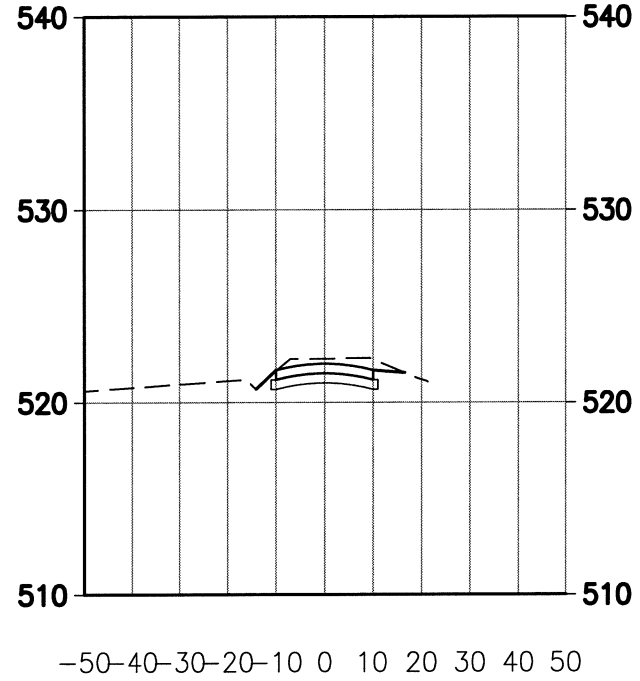
BHC
 PROJECT NO.
 2007-110
 April, 2011
 SHEET NO.
40

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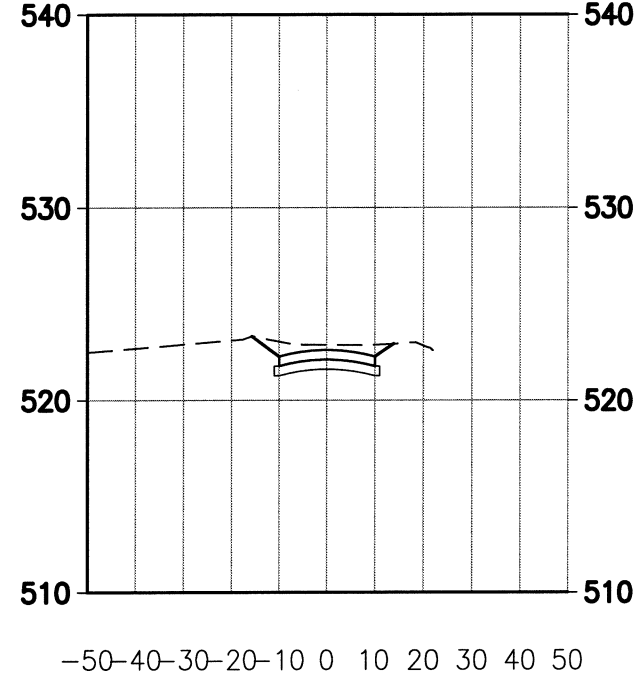
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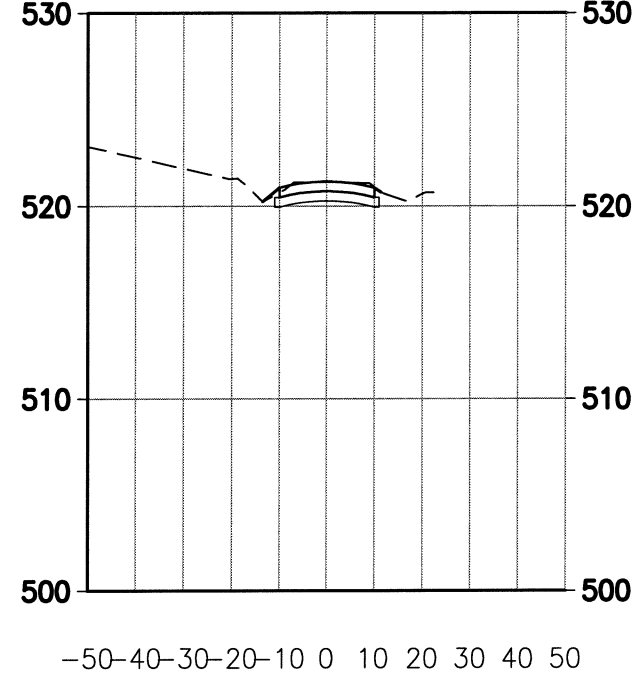
13+50.00



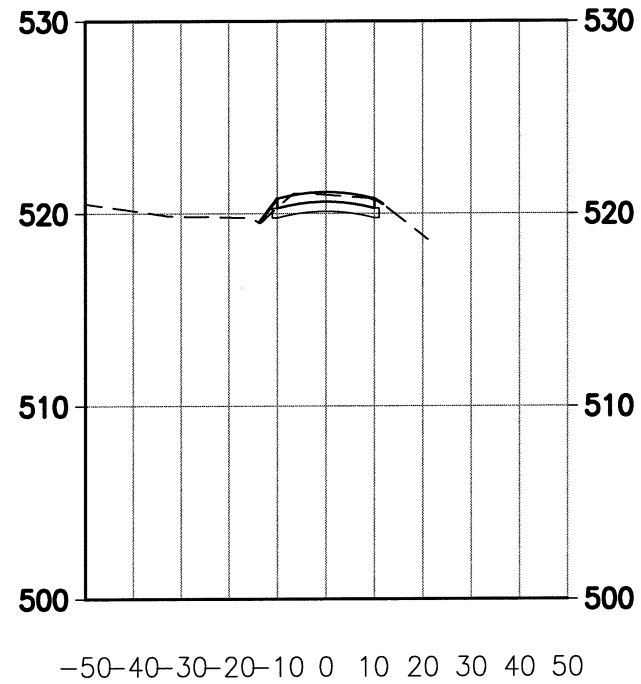
14+50.00



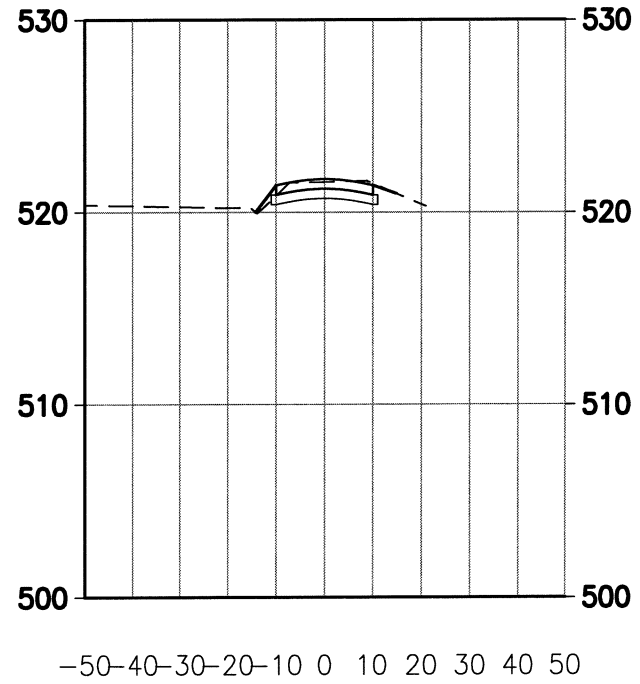
15+50.00



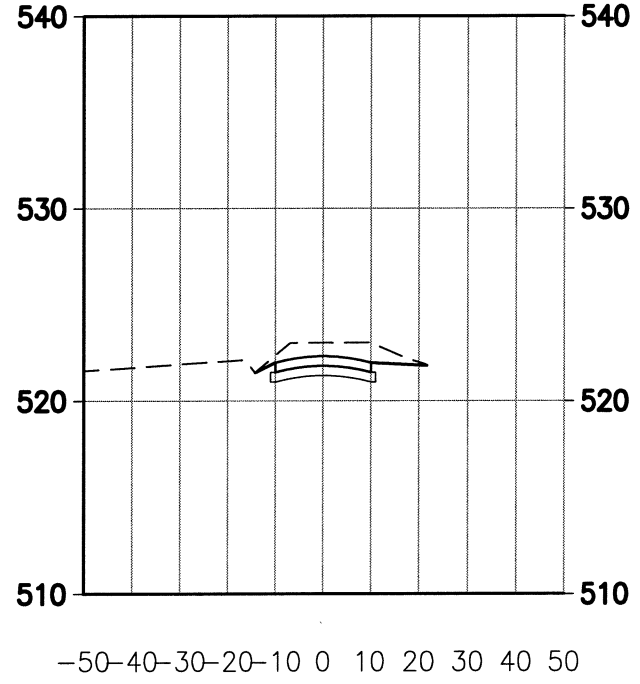
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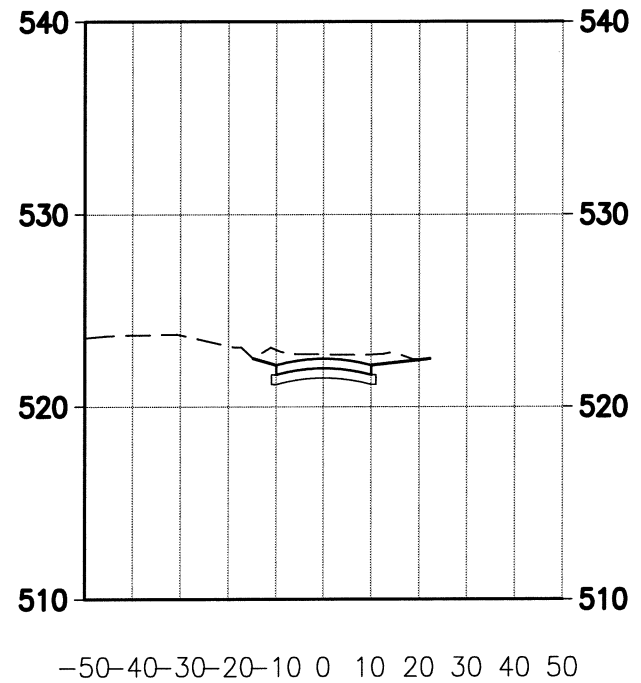
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14+00.00



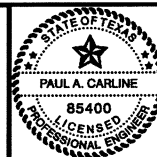
15+00.00



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7/29/11

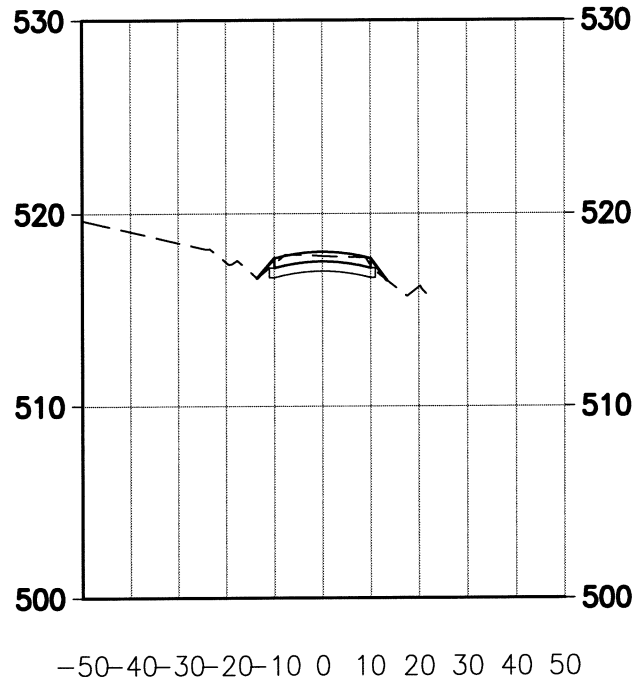
CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 12+00 TO STA. 15+50

BHC
 PROJECT NO.
 2007-110
 April, 2011

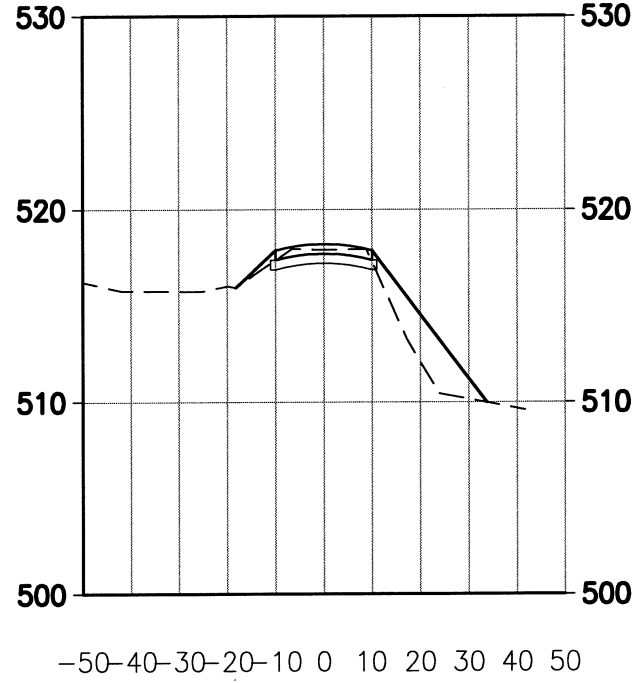
SHEET NO.
41

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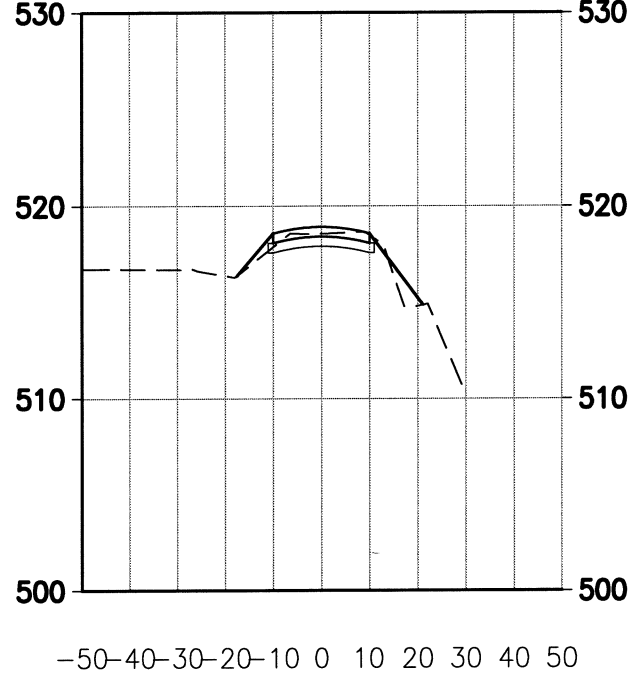
16+50.00



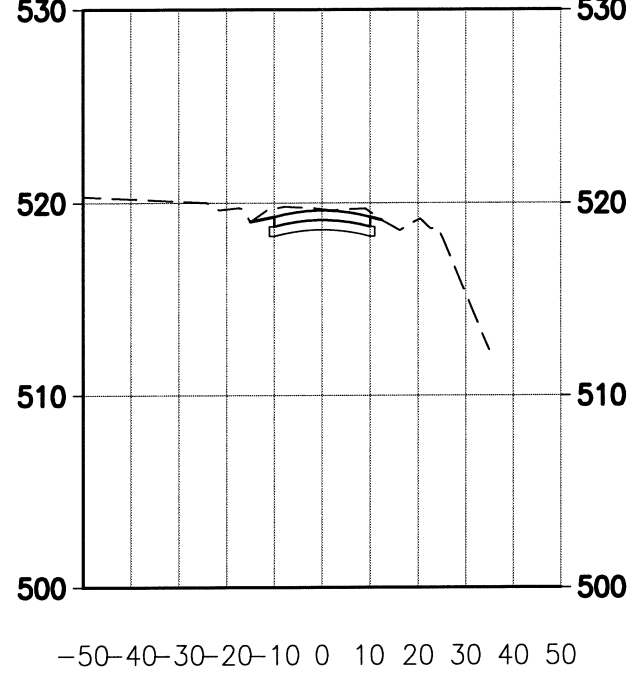
17+50.00



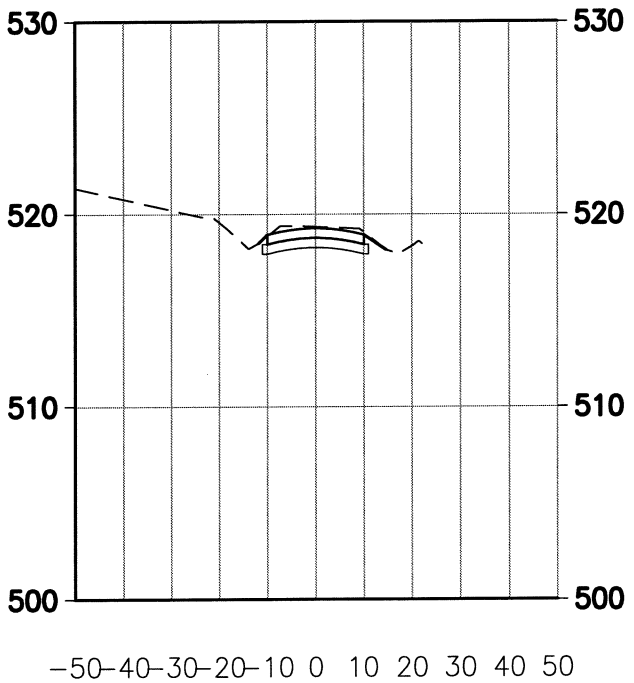
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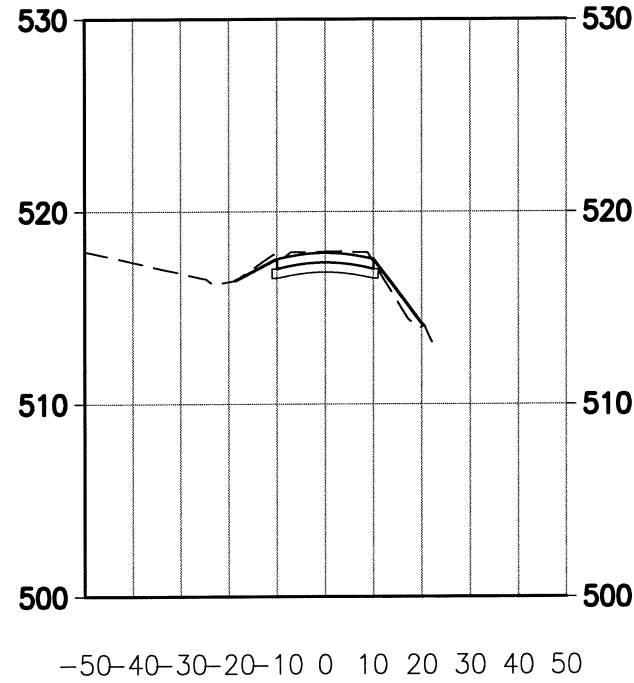
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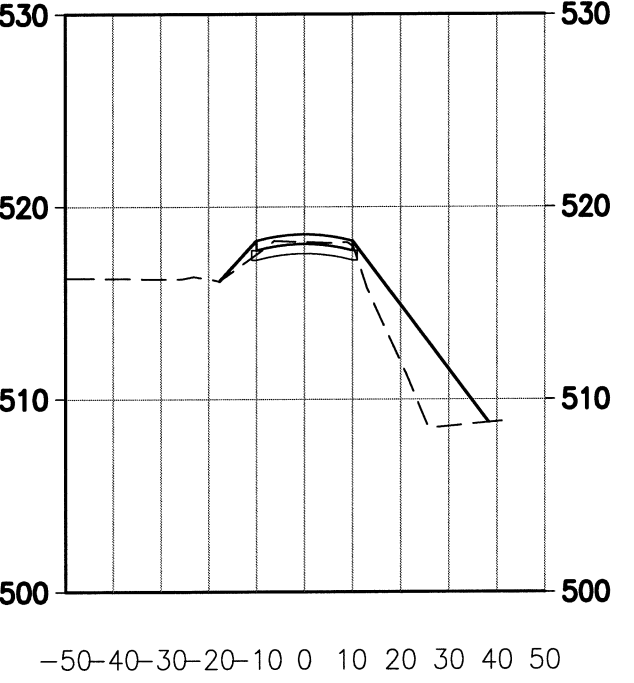
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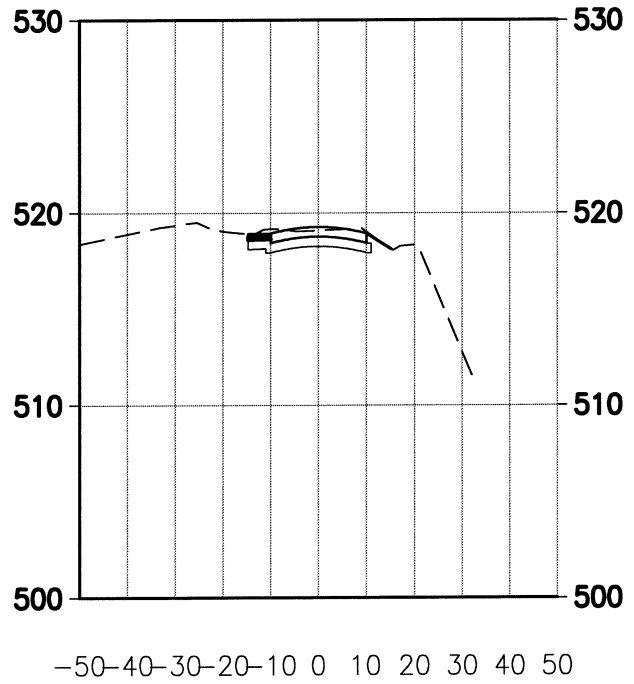
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18+00.00



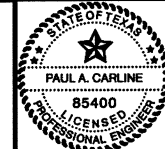
19+00.00



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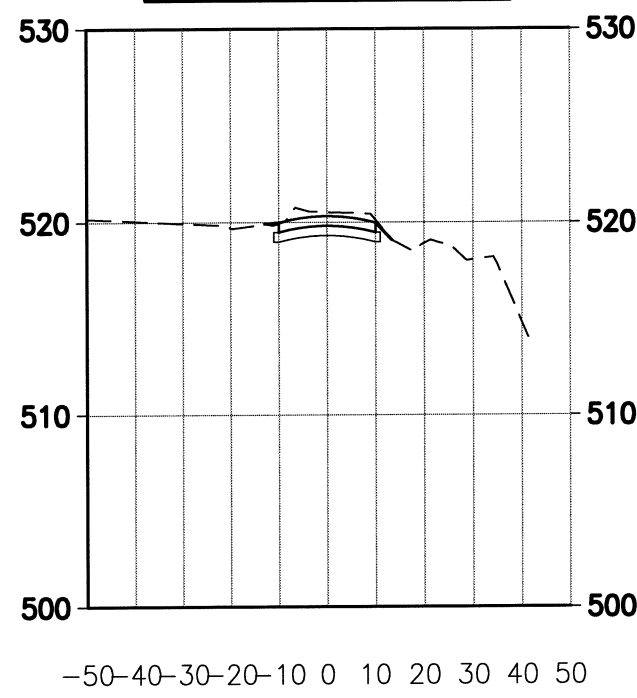
7/29/11

CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 16+00 TO STA. 19+50

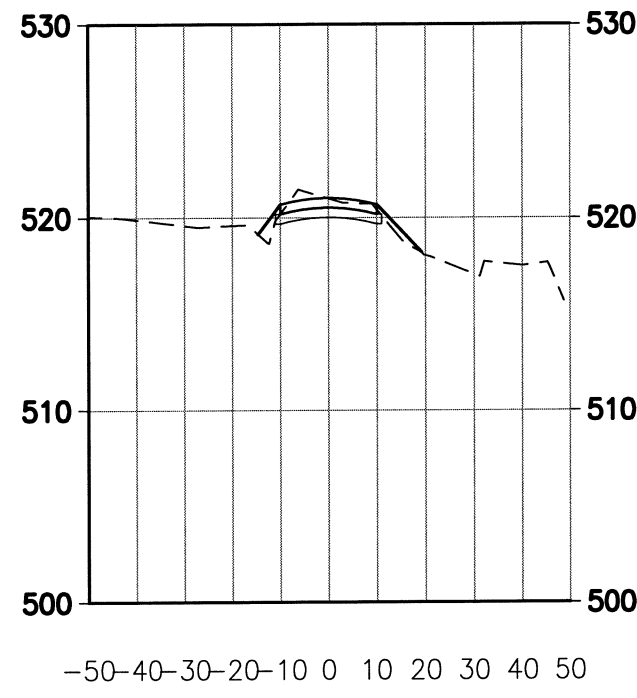
BHC
 PROJECT NO.
 2007-110
 SHEET NO.
42
 April, 2011

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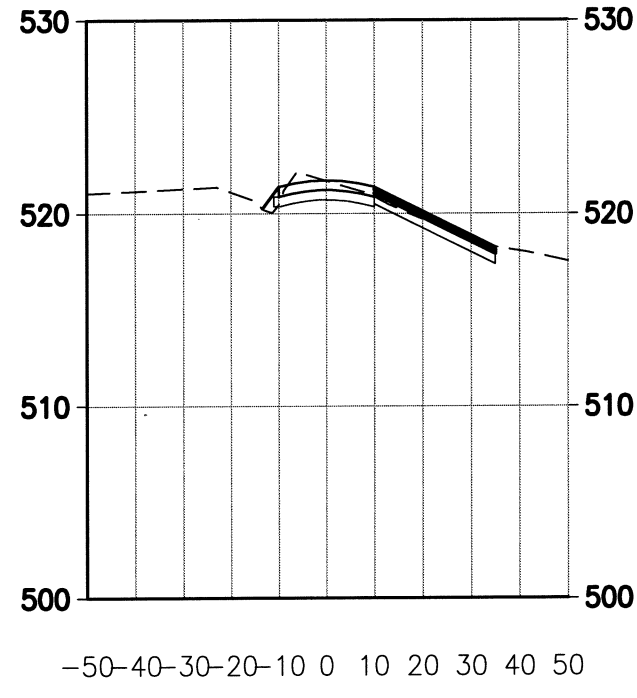
20+50.00



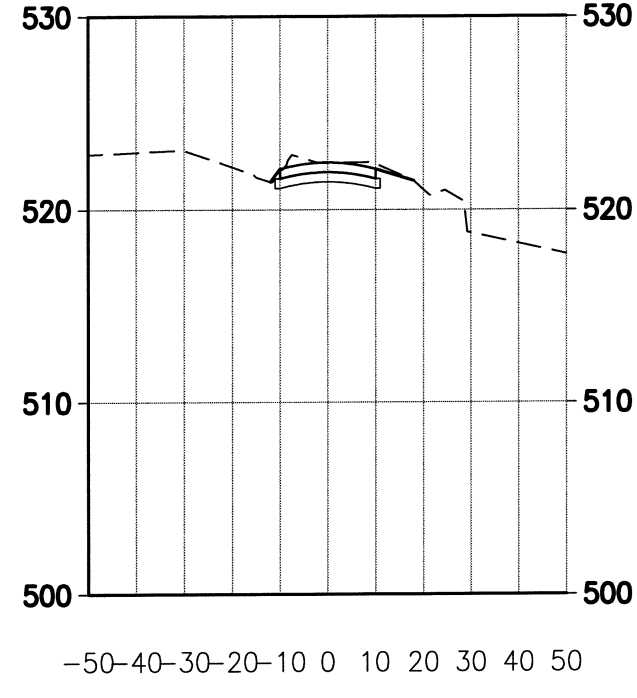
21+50.00



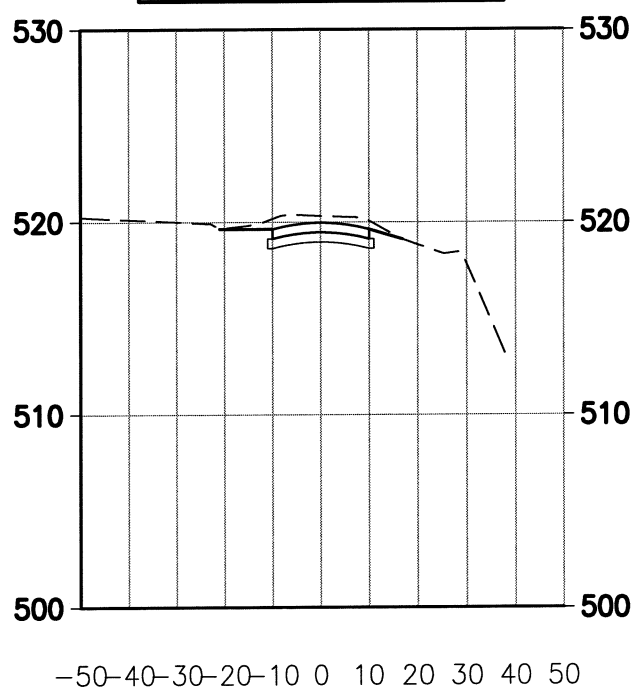
22+50.00



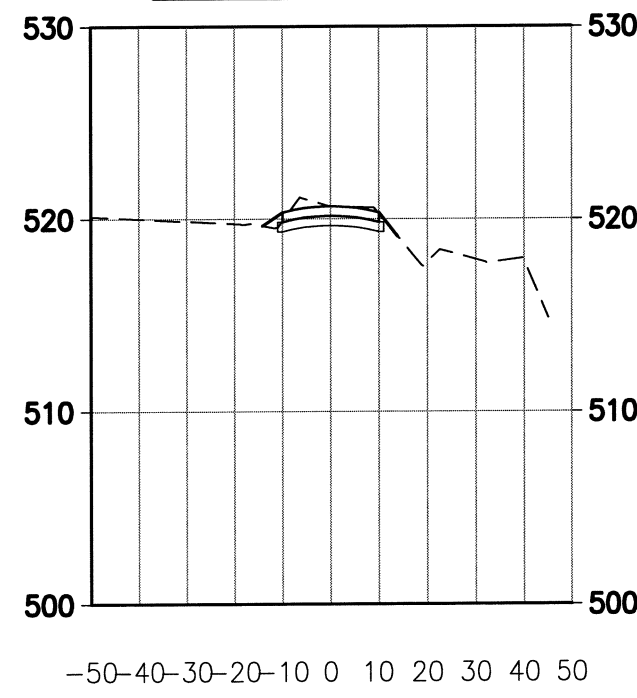
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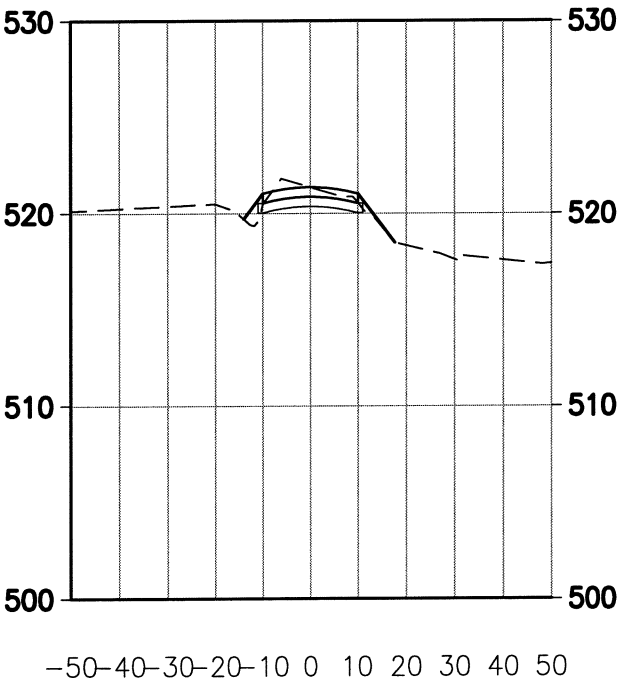
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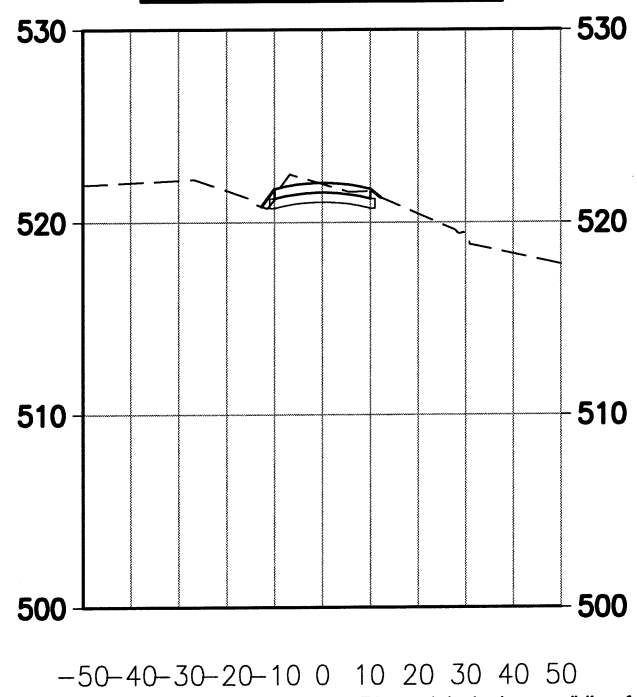
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22+00.00

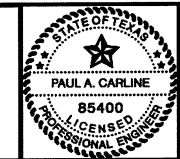


23+00.00



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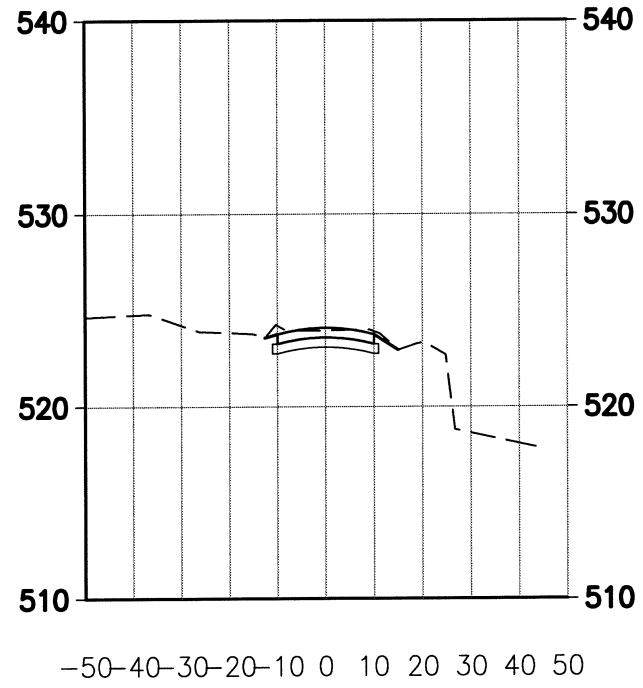
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 7/28/11

CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
 CROSS SECTIONS
 STA. 20+00 TO STA. 23+50

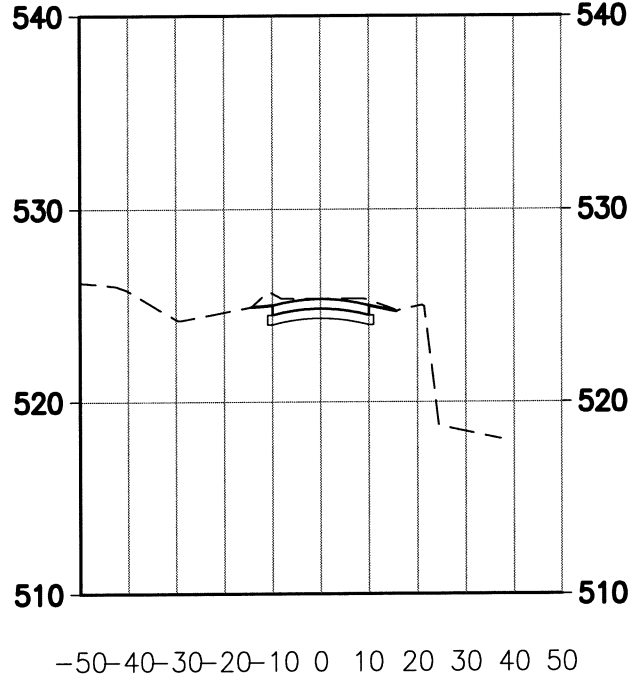
BHC
 PROJECT NO.
 2007-110
 April, 2011
 SHEET NO.
43

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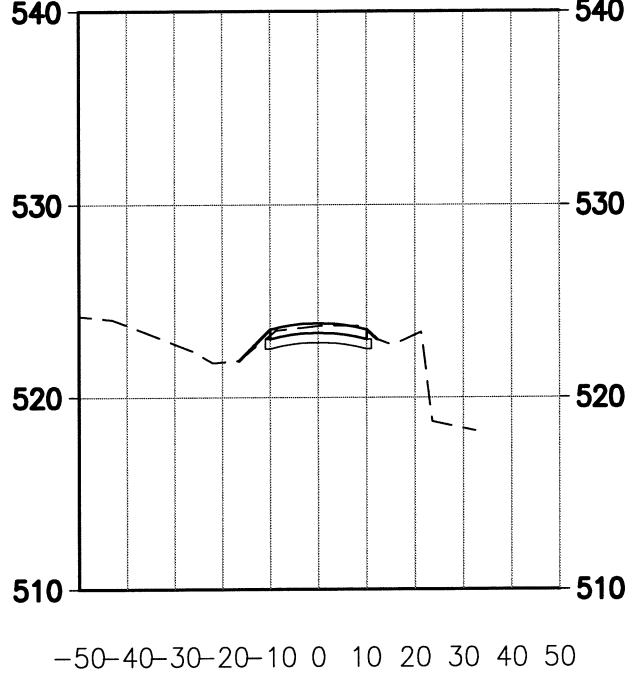
24+50.00



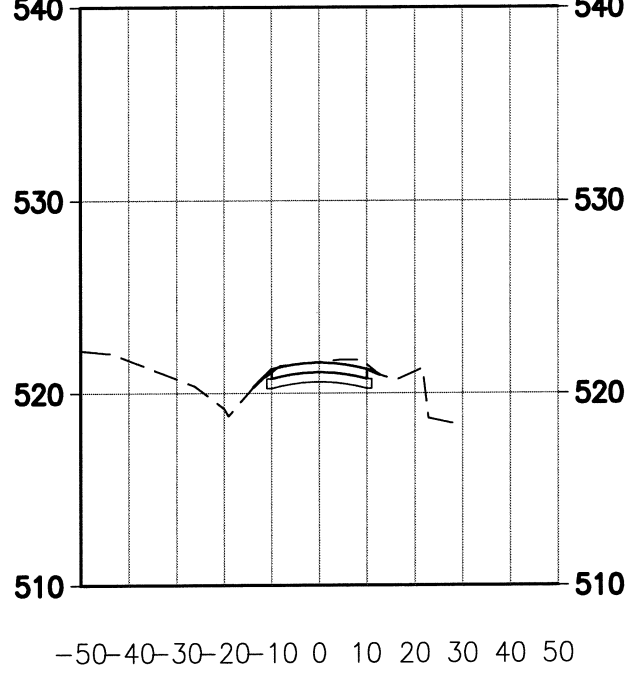
25+50.00



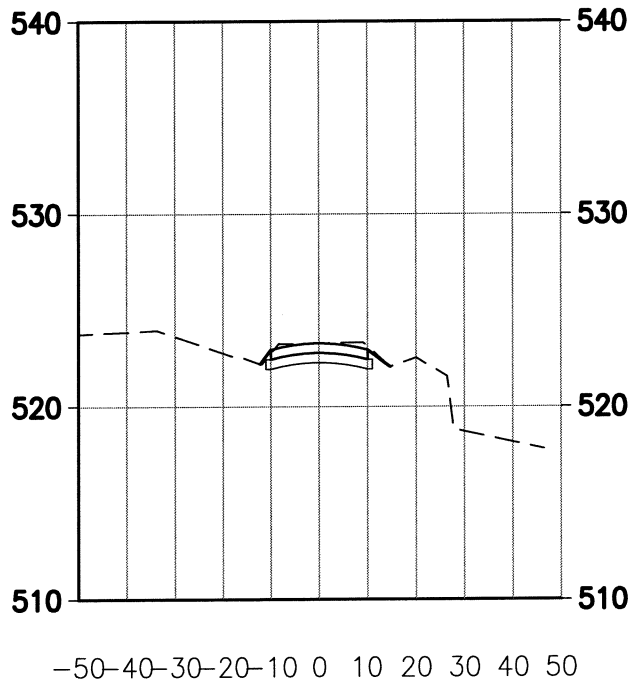
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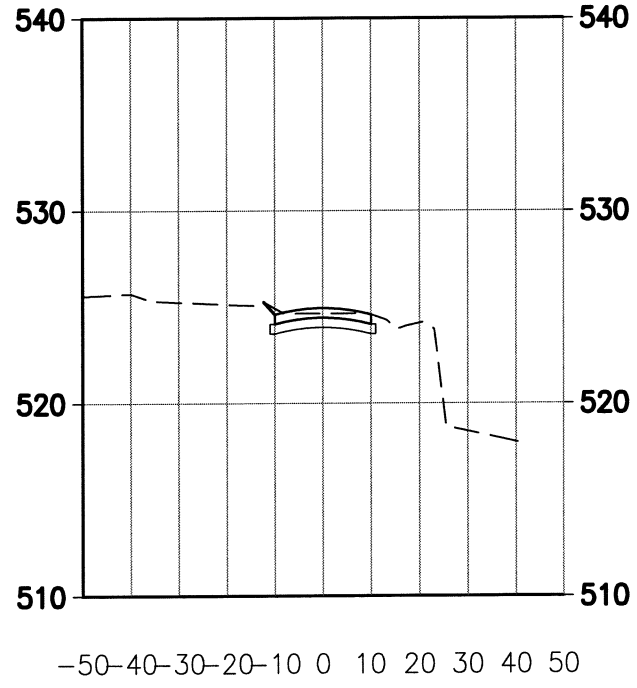
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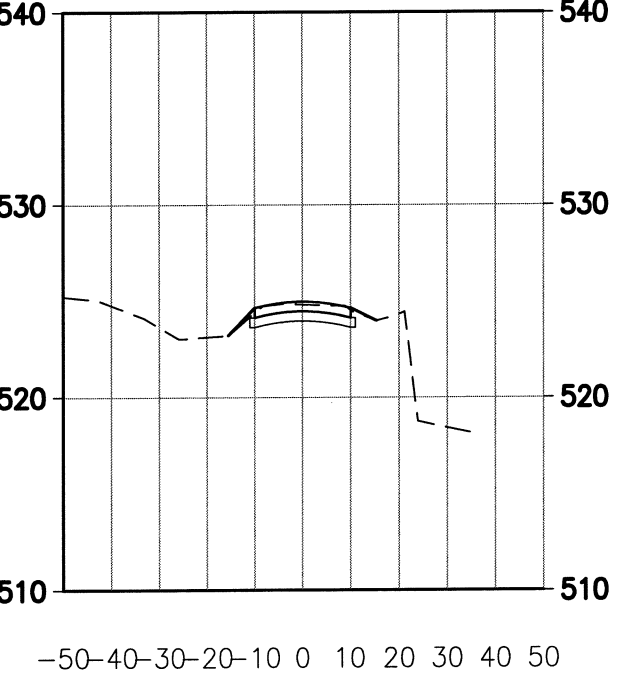
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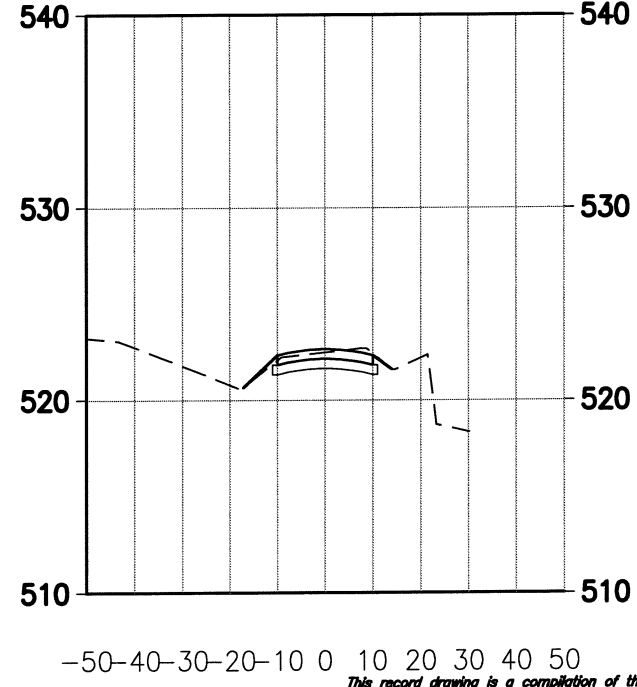
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26+00.00

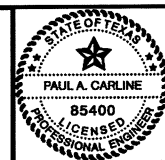


27+00.00



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[Signature]
 7/29/11

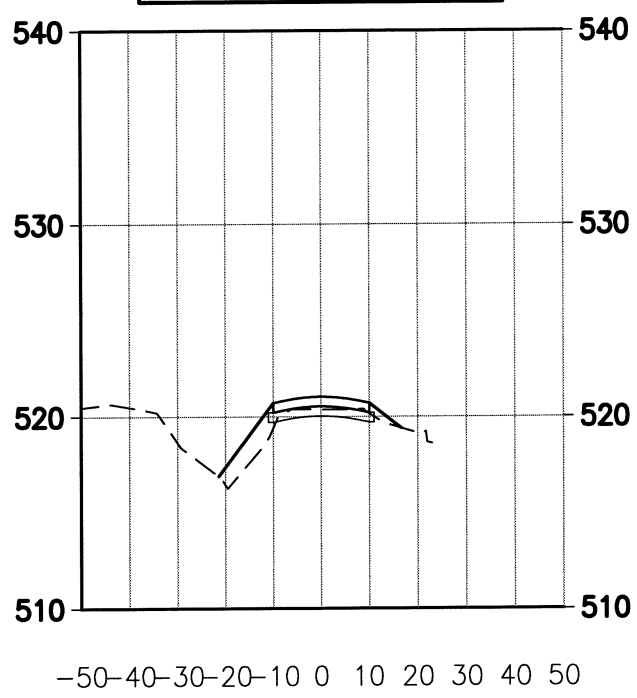
CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
 CROSS SECTIONS
 STA. 24+00 TO STA. 27+50

BHC
 PROJECT NO.
 2007-110
 April, 2011

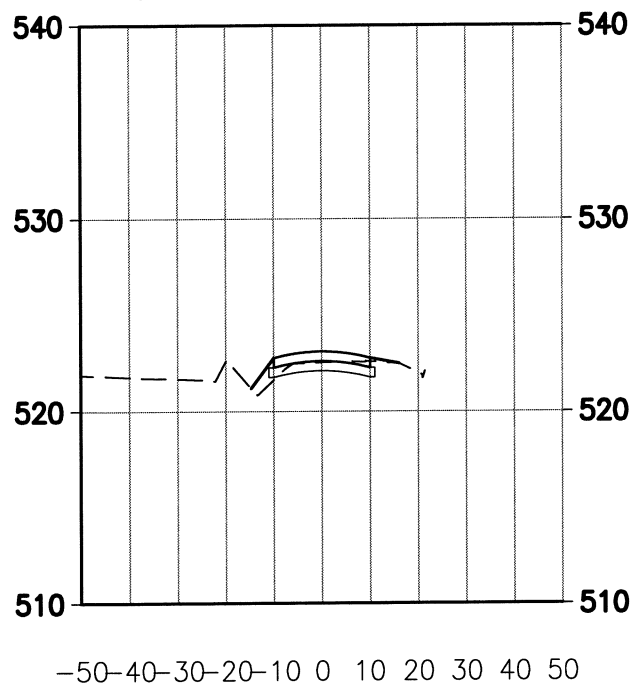
SHEET NO.
44

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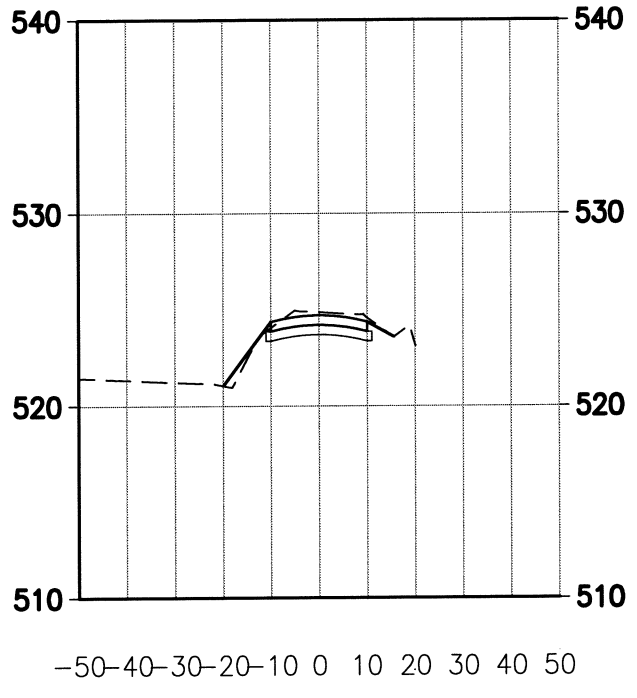
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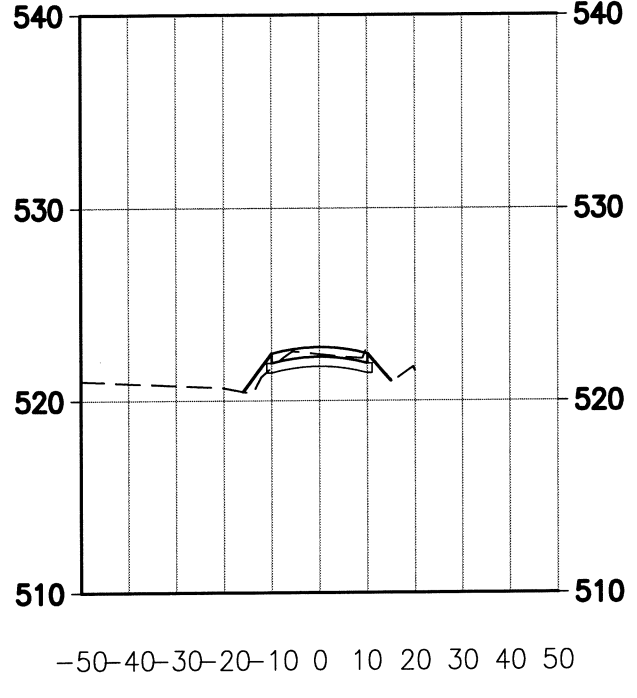
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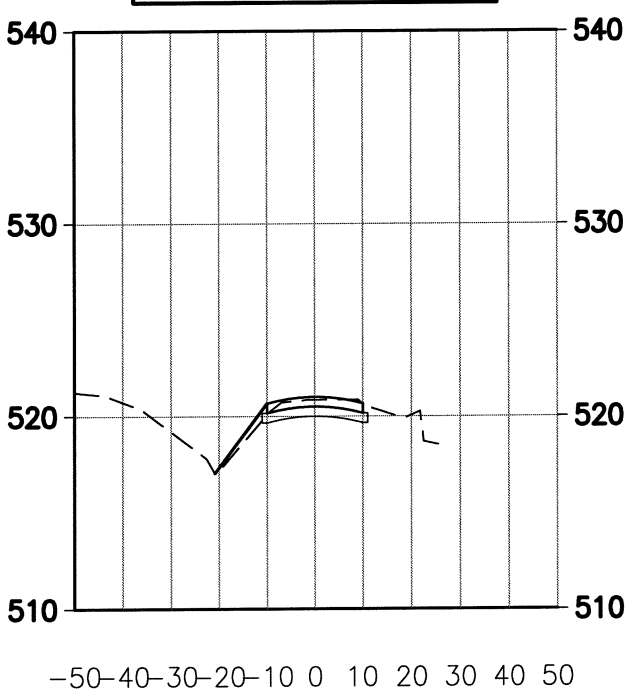
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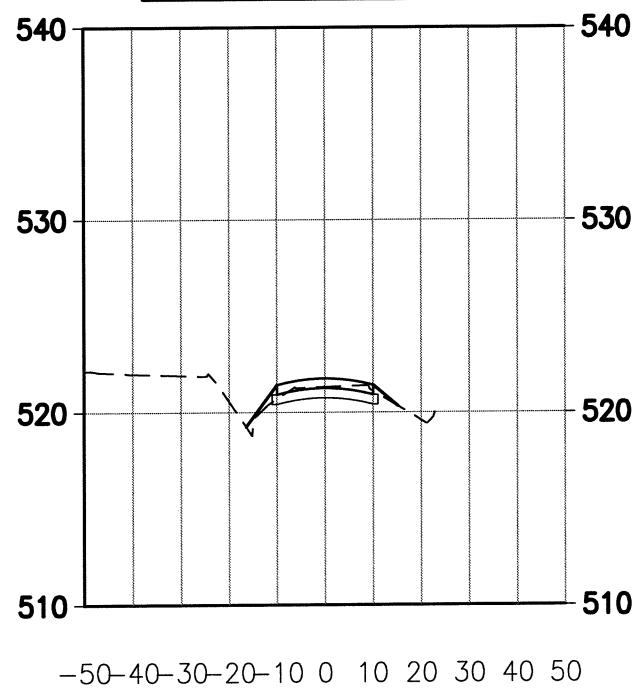
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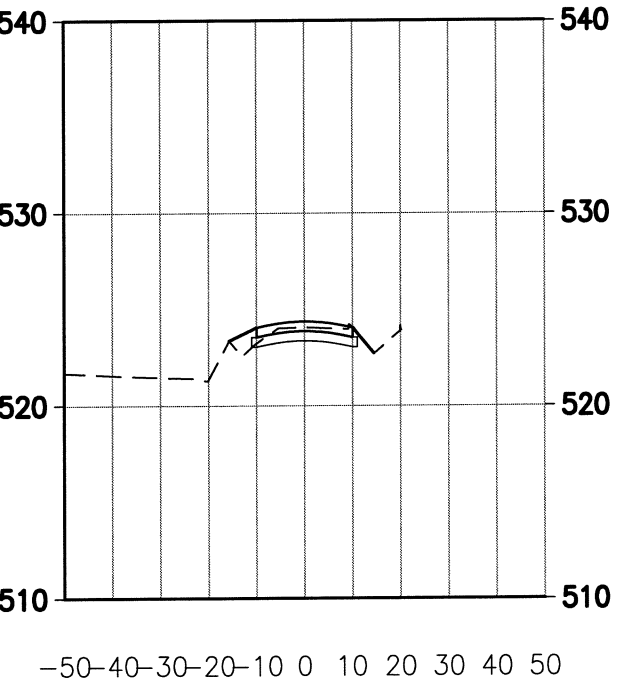
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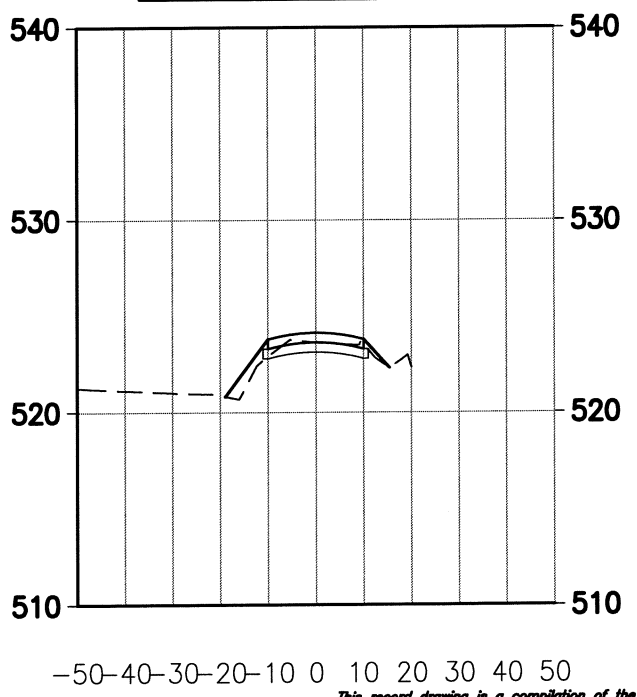
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30+00.00

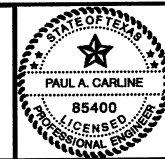


31+00.00



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 Texas Firm F526
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 Dallas, Texas (214) 361-7900



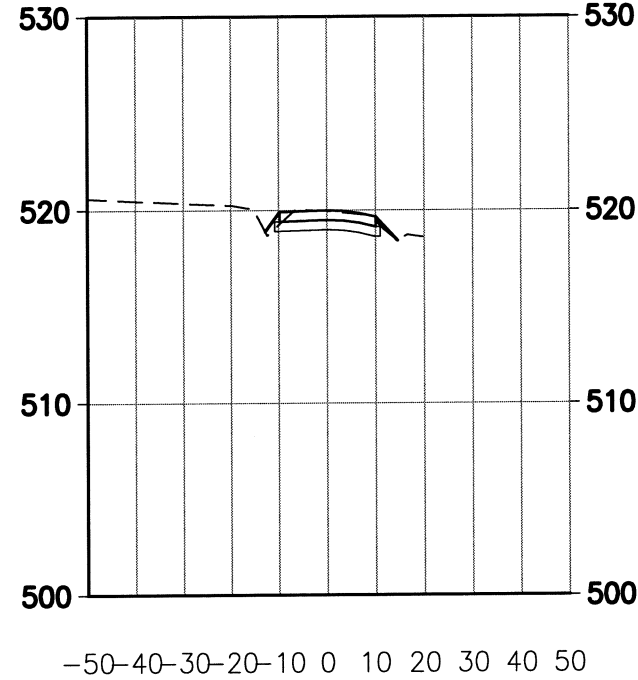
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 7/29/11

CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 28+00 TO STA. 31+50

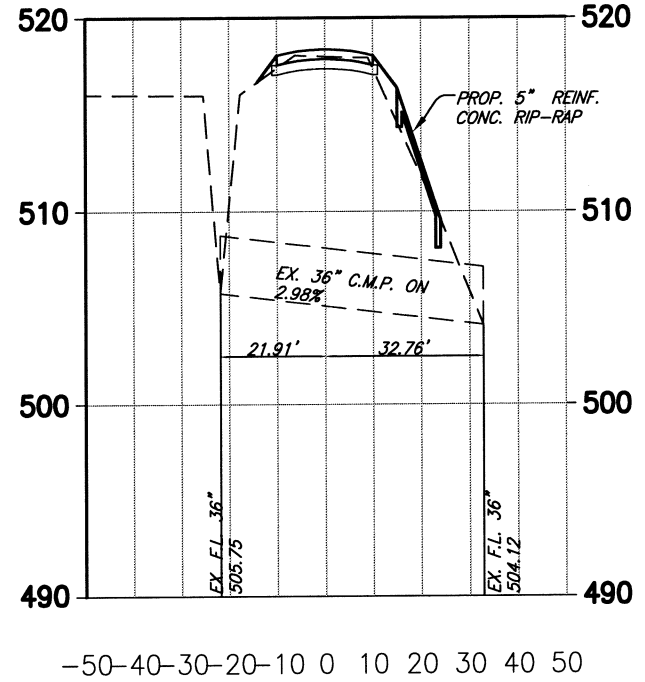
BHC
 PROJECT NO.
 2007-110
 April, 2011
 SHEET NO.
45

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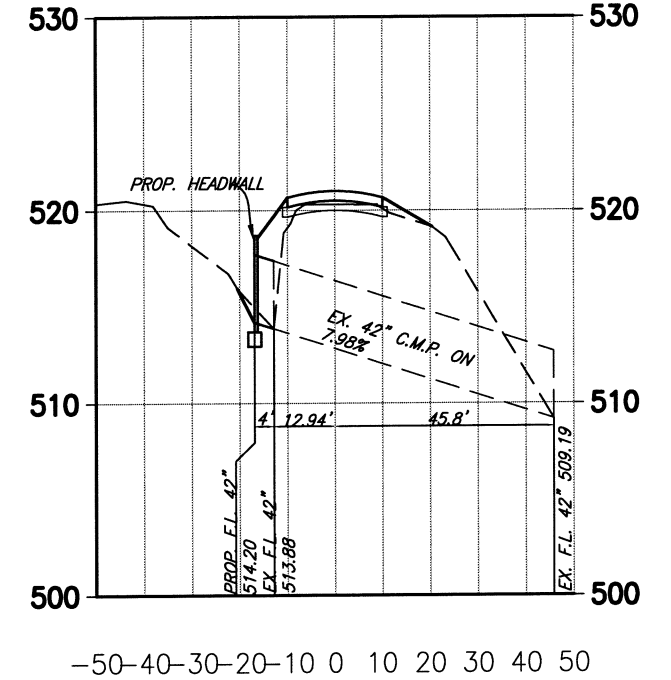
32+50.00



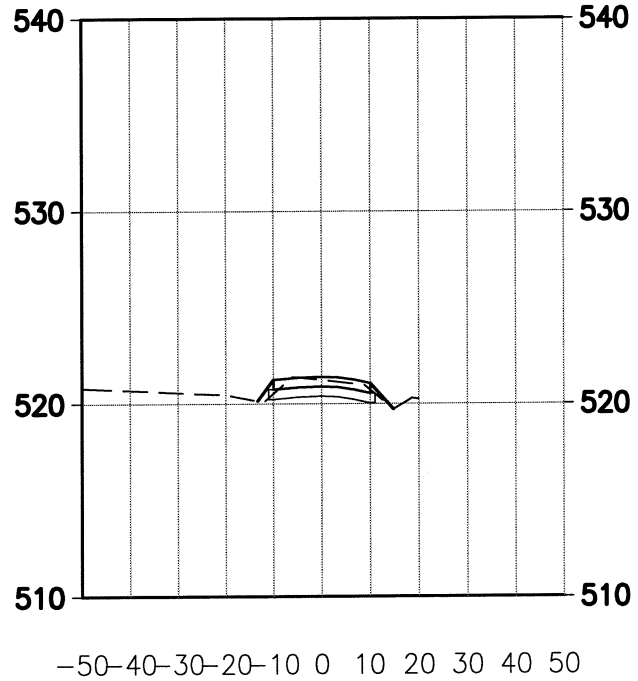
17+74.30



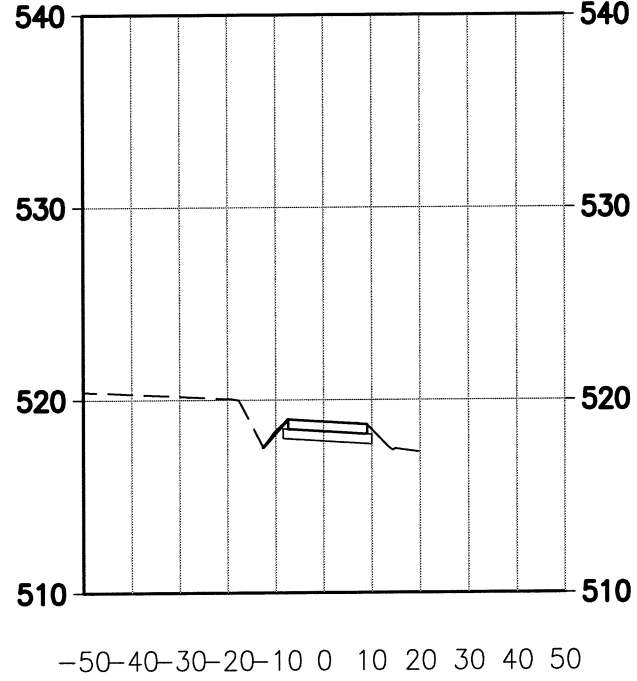
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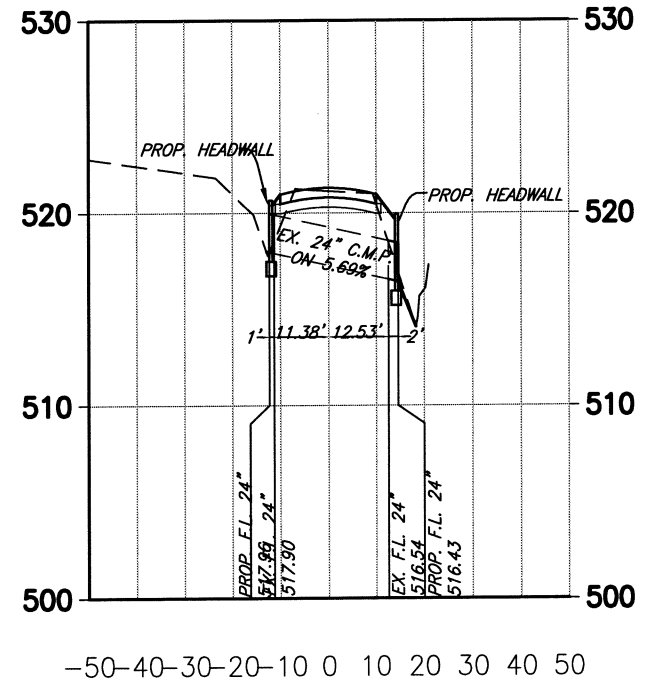
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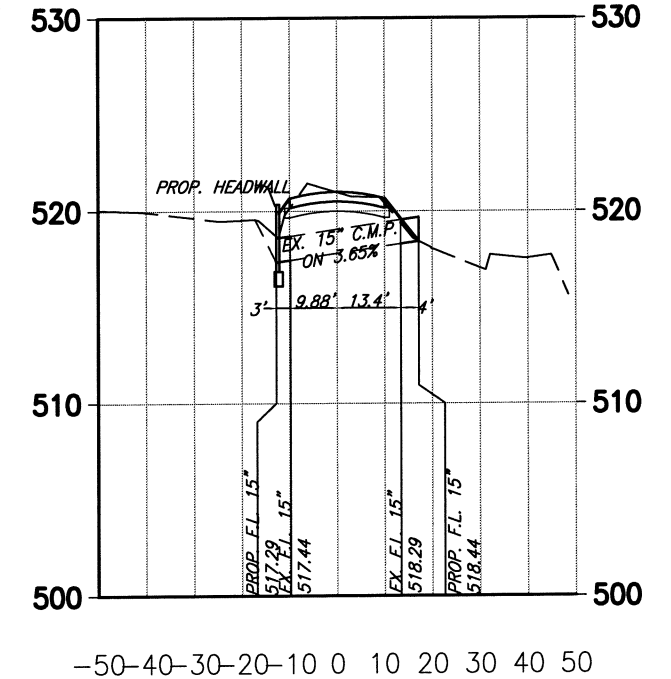
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10+54.17

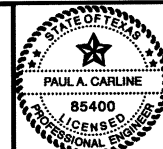


21+46.87



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 Dallas, Texas (214) 361-7900



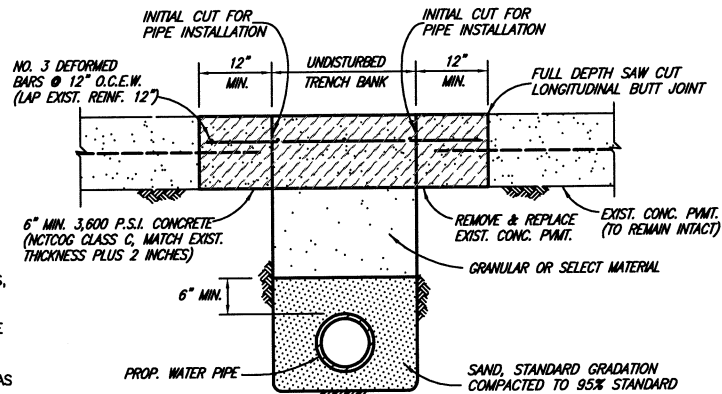
7/29/11

CITY OF ROCKWALL, TEXAS
 QUAIL RUN ROAD PAVING
CROSS SECTIONS
 STA. 32+00 TO STA. 32+90+07

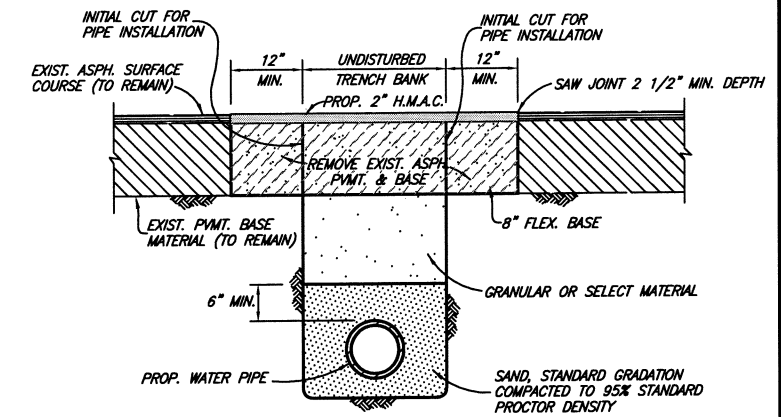
BHC PROJECT NO. 2007-110 SHEET NO. 46
 April, 2011

WATER LINE NOTES
(NOTES APPLY TO ALL SHEETS)

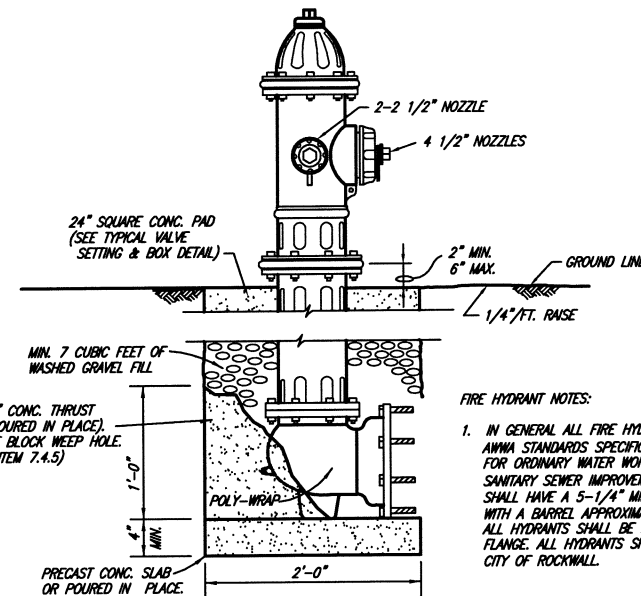
- 1) WATER LINES 6-INCHES TO 12-INCHES IN DIAMETER SHALL BE PVC AWWA C-900 DR-14, CLASS 200
- 2) WATER LINES 14-INCHES TO 24-INCHES IN DIAMETER SHALL BE PVC AWWA C-905 DR-18, CLASS 235
- 3) WATER LINES 36-INCHES IN DIAMETER SHALL BE PVC AWWA C-905 DR-25, CLASS 165
- 4) ALL WATER LINES HAVE A MINIMUM COVER OF 48-INCHES.
- 5) ALL TEES, BENDS, ELBOWS, PLUGS, AND OTHER FITTINGS SHALL BE RESTRAINED USING MEGA-LUGS OR APPROVED EQUAL JOINT RESTRAINT SHALL BE SUCH TO RESTRAIN TEST PRESSURES.
- 6) EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION PROVIDED BY UTILITY COMPANIES AND FIELD SURVEYS. THE UTILITIES SHOWN MAY NOT REPRESENT ALL UTILITIES PRESENT. THE ENGINEER AND CITY OF ROCKWALL DO NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BOTH HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE AND SHALL REPAIR ANY UTILITIES DAMAGED BY THEIR OPERATIONS AT THEIR EXPENSE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH UTILITIES.
- 7) ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, AND STANDARDS IMPOSED BY UTILITY COMPANIES AND THE CITY OF ROCKWALL.
- 8) CONTRACTOR SHALL FURNISH AND INSTALL BLUE E.M.T. MARKER PADS AT ALL BENDS, VALVES, CHANGES IN HORIZONTAL ALIGNMENT, AND EVERY 250- FEET ALONG THE LENGTH OF THE WATER LINE AS SHOWN IN THE CITY OF ROCKWALL STANDARD DETAILS. PAYMENT FOR FURNISHING AND INSTALLING THE E.M.T. MARKER PADS SHALL BE SUBSIDIARY TO WATER LINE INSTALLATION.
- 9) SEWER PRESSURE PIPE SHALL BE PVC, SDR 26 (160PSI PRESSURE RATING), ASTM D2241.
- 10) PAYMENT FOR DUCTILE IRON FITTINGS SHALL BE AT THE CONTRACT UNIT PRICE PER POUND AS PROVIDED IN THE PROPOSAL AND BID SCHEDULE.



CONCRETE STREET OR DRIVEWAY REPAIR



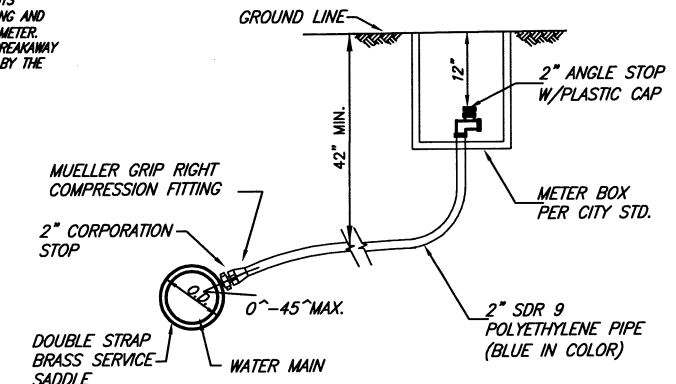
ASPHALT STREET OR DRIVEWAY REPAIR



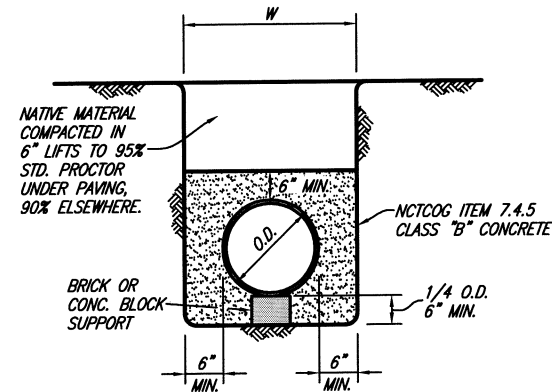
FIRE HYDRANT NOTES:

1. IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE CITY OF ROCKWALL.

FIRE HYDRANT ASSEMBLY

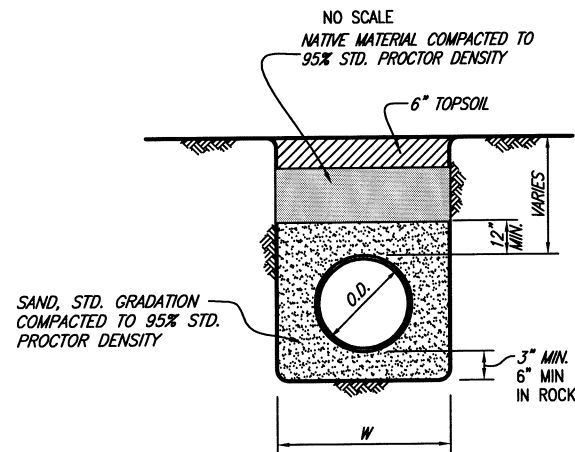


WATER SERVICE ASSEMBLY

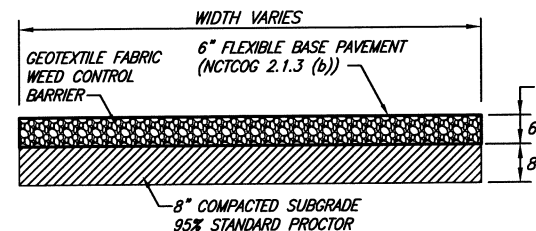


CLASS G EMBEDMENT

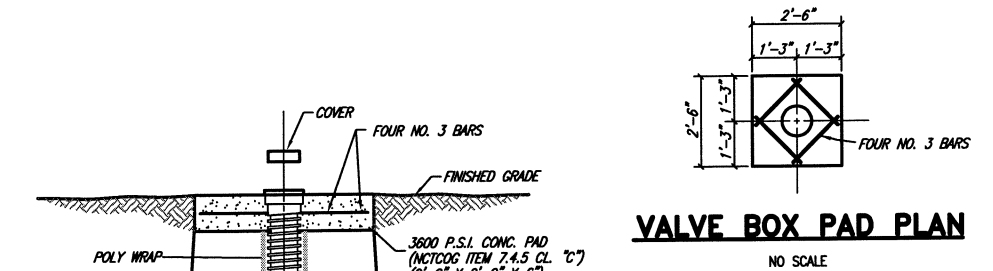
CONCRETE ENCASEMENT



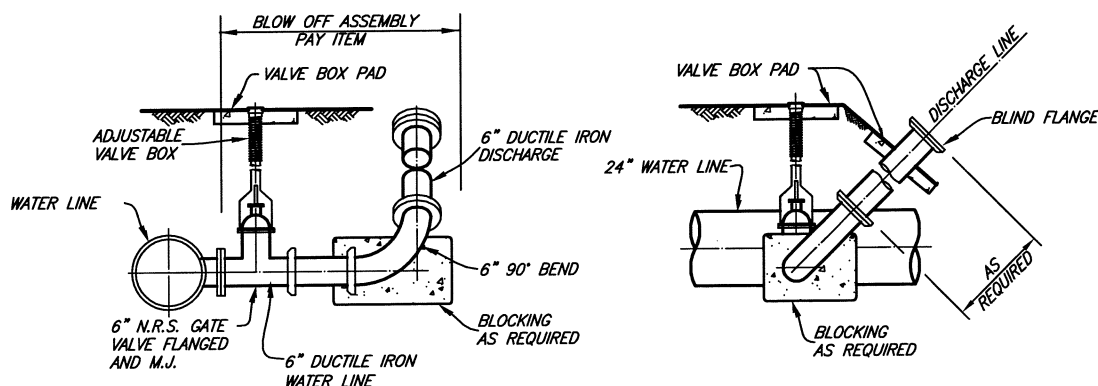
CLASS B-4 EMBEDMENT



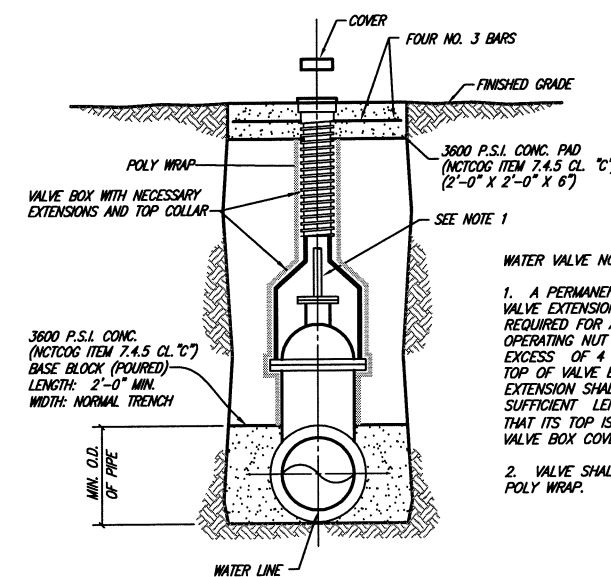
GRAVEL DRIVE REPAIR



VALVE BOX PAD PLAN



BLOW OFF VALVE ASSEMBLY

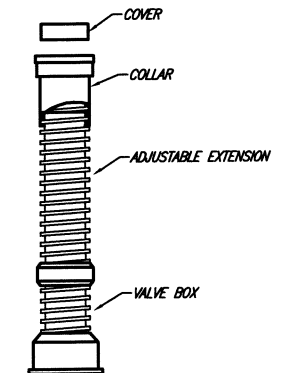


GATE VALVE SETTING & BOX

NO SCALE

WATER VALVE NOTES:

1. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
2. VALVE SHALL BE WRAPPED IN POLY WRAP.



VALVE BOX WITH EXTENSION

NO SCALE

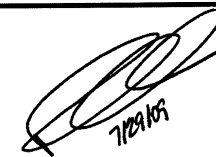
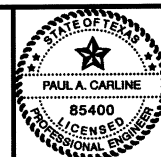
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BY PAC DATE 4/7/2011

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CONSULTING ENGINEERS

Texas Firm F526
11910 Greenville Ave., Suite 600
Dallas, Texas (214) 361-7900



CITY OF ROCKWALL, TEXAS

QUAIL RUN WATER LINE

DETAILS

BHC

PROJECT NO. 2007-129

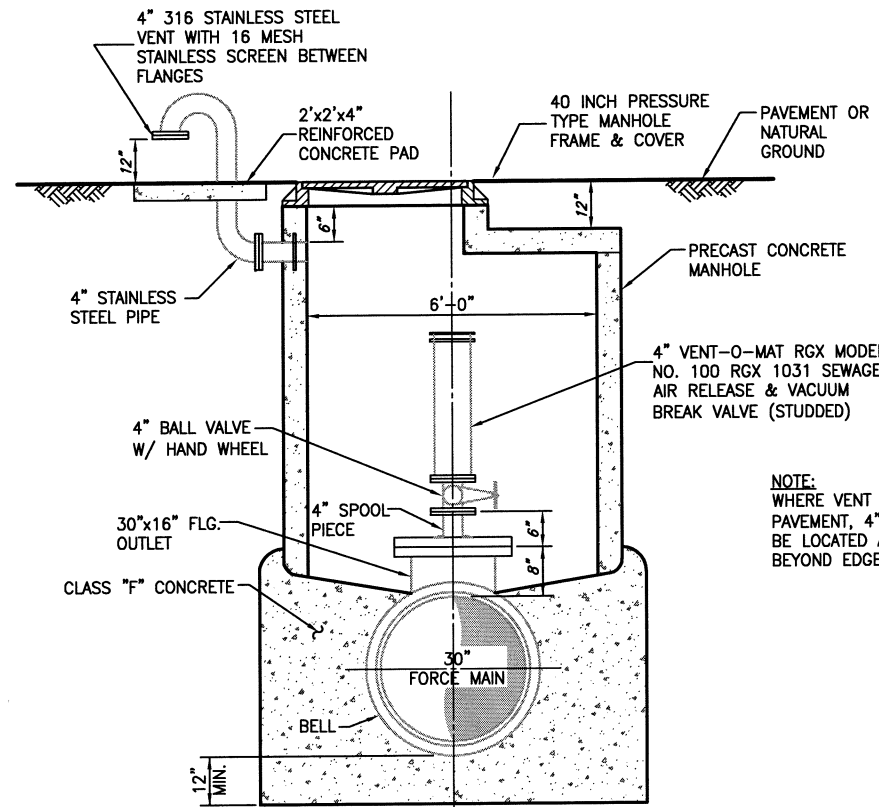
April 2011

SHEET NO.

47

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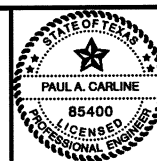


NOTE:
WHERE VENT IS LOCATED UNDER PAVEMENT, 4" GOOSENECK SHALL BE LOCATED AT LEAST 3- FEET BEYOND EDGE OF PAVEMENT.

COMBINATION AIR & VACUUM RELEASE VALVE

NOT TO SCALE

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Handwritten signature and initials: 7/29/11

CITY OF ROCKWALL, TEXAS

SQUABBLE CREEK FORCE MAIN

DETAILS

BHC
PROJECT NO.
2007-110

April, 2011

SHEET NO.

48