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ADDENDUM 01

* THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS INDEX HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. 12/20/2011 DATE

PAPE-DAWSON ENGINEERS
555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

INDEX OF SHEETS

SHEET 1 OF 1

FINAL SUBMITTAL	PROJECT NO: 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JL	SHEET NO: 2

Plotted on: 12/20/2011
Design Filename: p:\52\41\10\05\design\civil\2plansheets\misc\52411005index01*add01.dgn

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY BASE BID	QUANTITY ADD ALT- 1	QUANTITY ADD ALT - 2	QUANTITY ADD ALT - 3
	TRAFFIC CONTROL PLAN					
TXDOT						
0340-2011	D-GR HMA(METH) TY-B PG64-22	TON	1115	1303	0	0
0502-2001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	15	15	3	1
0502-2055	OFF-DUTY POLICE OFFICERS	HR	128	80	0	40
0512-2008	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	1580	1320	200	0
0512-2009	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	280	240	60	0
0512-2026	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	2100	1620	520	0
0512-2027	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	300	40	220	0
0512-2044	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	1420	1320	200	0
0512-2045	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	200	240	60	0
0662-2004	WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	LF	5161	6422	0	0
0662-2032	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	5553	6306	0	0
0662-2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	9964	1533	0	0
0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	0	76	0	0
0662-2079	WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	192	0	0	0
0662-2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0	1	0	0
0662-2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	0	1	0	0
0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	10319	3266	0	0
0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	0	437	0	0
0677-2007	ELIM EXT PAV MRK & MRKS (24")	LF	0	130	0	0
0681-2001	TEMP TRAF SIGNALS	EA	1	0	0	0
	ROADWAY					
CoSA						
103.1	REMOVE CONCRETE CURB	LF	1726	356	80	719
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	2050	1364	0	1265
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	0	4130	0	0
104.1	STREET EXCAVATION	CY	9010	11712	0	387
107.1	EMBANKMENT (FINAL)	CY	40	530	0	0
203.1	TACK COAT	GAL	2668	2364	149	82
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B 12 INCHES PAVEMENT THICKNESS	SY	14100	12505	0	412
205.3	HOT MIX ASPHALTIC PAVEMENT TYPE C 3 INCHES PAVEMENT THICKNESS	SY	13332	11824	0	360
205.31	HOT MIX ASPHALTIC PAVEMENT TYPE C 2 INCHES PAVEMENT THICKNESS	SY	0	0	1486	0
208.1	SALVAGING, HAULING, & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2 IN)	SY	0	0	1486	0
209.1	CONCRETE PAVEMENT TY P (12" DEEP)	SY	0	0	0	83
209.2	BUS STOP CONCRETE PAD	SY	430	0	0	0
302.1	METAL FOR STRUCTURES	LB	2200	0	0	0
500.1	CONCRETE CURB	LF	2905	3215	80	698
502.1	CONCRETE SIDEWALKS CONVENTIONALLY FORMED	SY	0	0	28	0
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY COMMERCIAL	SY	1487	541	0	0
506.1	CONCRETE RETAINING WALLS COMBINATION TYPE	CY	3	7	0	3
511.6	REPLACING WITH FLOWABLE FILL AND PAVEMENT 6 INCHES COMPACTED DEPTH	SY	0	0	80	0
513.1	REMOVING AND RELOCATING MAIL BOXES	EA	1	0	0	0
TXDOT						
0496-2006	REMOV STR (HEADWALL)	EA	0	1	0	0
0496-2007	REMOV STR (PIPE)	LF	0	10	0	0
0496-2042	REMOV STR (SMALL)	EA	0	1	0	0
	SIGNING AND PAVEMENT MARKINGS					
CoSA						
531.1	R3-4 NO U TURNS* (24" X 24")	EA	2	0	0	2
531.11	R3-5 LEFT OR RIGHT ONLY* (30" X 36")	EA	1	0	0	2
531.13	R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT* (30" X 30")	EA	3	0	0	1
531.14	R3-8 LANE-USE CONTROL (30"x30")(HIGH DENSITY)	EA	2	0	0	0
531.17	R4-7 KEEP RIGHT* (24" X 30")	EA	2	0	0	2
531.18	R5-1 DO NOT ENTER* (30" X 30")	EA	2	0	0	0
531.21	R7-1 NO PARKING ANYTIME (12"x18")(HIGH DENSITY)	EA	1	0	0	2
531.3	R1-1 STOP (30")(HIGH DENSITY)	EA	0	1	0	0
531.34	S1-1 ADVANCE SCHOOL CROSSING AND SCHOOL CROSSING**(36" X 36")	EA	2	1	0	0
531.4	R1-2 YIELD* (36")	EA	2	0	0	0
531.49	W9-2 LANE ENDS MERGE LEFT* (30" X 30")	EA	2	0	0	0
531.52	W13-1 ADVISORY SPEED* (18" X 18")	EA	2	1	0	0
531.6	R2-1 SPEED LIMIT* (24" X 30")	EA	2	0	0	0
535.1	4 INCH WIDE YELLOW LINE	LF	5475	4309	0	150
535.12	WORD "ONLY"	EA	4	0	2	1
535.18	SOLID WHITE YIELD LINES (6" X 9")	EA	26	0	0	0
535.2	4 INCH WIDE WHITE LINE	LF	814	944	100	0
535.4	8 INCH WIDE WHITE LINE	LF	867	0	320	195
535.7	24 INCH WIDE WHITE LINE	LF	660	0	0	497
535.8	RIGHT WHITE ARROW	EA	4	0	0	3
535.9	LEFT WHITE ARROW	EA	9	12	6	0
537.6	PAVEMENT MARKER (TYPE I C)	EA	102	95	44	10
537.8	PAVEMENT MARKER (TYPE II A A)	EA	251	87	0	8
531.16X	R3-9 TWO WAY LEFT TURN ONLY(24"X36")(HIGH INTENSITY)	EA	0	2	0	0
531.17X	EXCEPT BUSSES SPECIAL PLAQUE(30"X16")(HIGH INTENSITY)	EA	2	0	0	0
531.49X	W9-1 RIGHT LANE ENDS (HIGH INTENSITY)	EA	1	0	0	0
531.7X	M4-6 (END) (AUXILLARY SIGN)(24"X12")(HIGH DENSITY)	EA	0	1	0	0
535.101	24 INCH WIDE YELLOW STRIPE	LF	280	0	0	0
535.102	YELLOW MEDIAN NOSE	EA	1	1	0	0
TXDOT						
0658-2268	INSTL DEL ASSM (D - SY) SZ 1 (FLX) SRF (BR)	EA	8	0	0	0
0677-2007	ELIM EXT PAV MRK & MRKS (24")	LF	90	0	0	0

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY BASE BID	QUANTITY ADD ALT- 1	QUANTITY ADD ALT - 2	QUANTITY ADD ALT - 3
	STORM WATER POLLUTION PREVENTION PLAN					
CoSA						
540.1	ROCK FILTER DAMS (INSTALL) (TYPE 2)	LF	100	0	0	0
540.1	ROCK FILTER DAMS (REMOVE) (TYPE 2)	LF	100	0	0	0
540.1	ROCK FILTER DAMS (INSTALL) (TYPE 3)	LF	0	0	0	100
540.1	ROCK FILTER DAMS (REMOVE) (TYPE 3)	LF	0	0	0	100
540.1	ROCK FILTER DAMS (INSTALL) (TYPE 4)	LF	0	50	0	0
540.1	ROCK FILTER DAMS (REMOVE) (TYPE 4)	LF	0	50	0	0
540.6	CONSTRUCTION EXITS (INSTALL)	SY	690	0	0	0
540.6	CONSTRUCTION EXITS (REMOVE)	SY	690	0	0	0
540.8	SANDBAGS	LF	0	325	0	0
540.10	CURB INLET GRAVEL FILTER BAGS	LF	0	0	0	80
540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	1300	1800	0	0
554.1	EROSION CONTROL MATTING	SY	100	300	0	0
	TRAFFIC					
CoSA						
680.1	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS [ISOLATED]	EA	1	0	0	1
681.1	TEMPORARY TRAFFIC SIGNALS	EA	1	0	0	0
TXDOT						
6007-2001	REMOVING TRAFFIC SIGNALS	EA	1	0	0	0
	LANDSCAPING					
CoSA						
0168-2001	VEGETATIVE WATERING	MG	233	269	0	42
500.x	6" FLUSH CONCRETE BAND, COMPLETE PER DRAWINGS	LF	0	0	605	0
500.1	CONCRETE RETAINING CURBS AT PAVERS AND RAMPS, COMPLETE PER DRAWINGS	LF	110	0	0	143
502.1	CONCRETE SIDEWALKS (4" THICK), COMPLETE PER DRAWINGS	SY	852	2211	0	223
502.1	5" CONCRETE SLAB AT PAVERS, COMPLETE PER DRAWINGS	SY	245	0	964	334
502.1	5" CONCRETE SIDEWALK, SCORED, COMPLETE PER DRAWINGS	SY	37	0	0	47
502.1	5" CONCRETE SIDEWALK, COMPLETE PER DRAWINGS	SY	110	0	0	0
504.1	DETECTABLE WARNING CONCRETE PAVERS ON 1" SAND BED, COMPLETE PER DRAWINGS	SF	106	0	0	47
504.2	CONCRETE PAVERS ON 1" SAND BED, COMPLETE PER DRAWINGS	SF	2198	0	8675	1001
505	CONCRETE RIP-RAP, 5" THICK AT MEDIANS	SY	34	0	0	0
515.1	PLANTING SOIL MIX (12" DEPTH), COMPLETE PER DRAWINGS	CY	0	0	143	0
515.2	MULCH AT PLANTING AREAS (4" DEPTH), COMPLETE PER DRAWINGS	CY	0	0	48	0
515.3	HYDROSEED SOIL MIX (4" DEPTH), COMPLETE PER DRAWINGS	CY	355	4	0	64
515.4	SOD PLANTING SOIL MIX (4" DEPTH), COMPLETE PER DRAWINGS	CY	0	4	209	0
516.1	TIF '419' BERMUDA, SOLID SOD, COMPLETE PER DRAWINGS	SY	0	33	1885	0
531.1	WAYFINDING SIGN COMPLETE AND INSTALL, COMPLETE PER DRAWINGS	EA	2	0	0	0
556.2	CRAPE MYRTLE TREE, #15 CONT., COMPLETE PER DRAWINGS	EA	0	0	111	0
557.1	LINDHEIMER'S MUHLY GRASS, #3 CONT., COMPLETE PER DRAWINGS	EA	0	0	29	0
557.2	KNOCK OUT ROSE, 'PINK', #3 CONT., COMPLETE PER DRAWINGS	EA	0	0	33	0
557.3	TEXAS LANTANA, #3 CONT., COMPLETE PER DRAWINGS	EA	0	0	883	0
801.1	TREE PROTECTION	LF	1450	171	0	0
810	TREE AND STUMP REMOVAL	EA	15	26	0	0
520.1	BERMUDA GRASS, HYDROSEED, COMPLETE PER DRAWINGS	SF	29083	33396	0	5211
xxx.x	IRRIGATION	SF	29083	33495	0	5211
xxx.x	TREE RELOCATION (ALLOWANCE)	LS	1	0	0	0
xxx.x	EXISTING STRUCTURES AT CARRASCO AVE (ALLOWANCE)	ALLOW	0	1	0	0
xxx.x	RIVER ROCK (4" DEPTH)	CY	0	0	77	0
xxx.x	GEOTEXTILE FABRIC	SF	0	0	6260	0
xxx.x	IRRIGATION AT MEDIAN A (REF. CIVIL FOR METERS)	LS	0	0	1	0
xxx.x	IRRIGATION AT MEDIANS C & D (REF. CIVIL FOR METERS)	LS	0	0	1	0
xxx.x	IRRIGATION AT MEDIAN H (REF. CIVIL FOR METERS)	LS	0	0	1	0
xxx.x	IRRIGATION AT MEDIANS I & J (REF. CIVIL FOR METERS)	LS	0	0	1	0
xxx.x	IRRIGATION AT MEDIAN L & M (REF. CIVIL FOR METERS)	LS	0	0	1	0
xxx.x	BUS STOP CONCRETE PADS (6" THICK), COMPLETE PER DRAWINGS	SY	9	0	0	10

ADDENDUM 01

PAPE-DAWSON ENGINEERS

555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010

TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

ESTIMATE AND QUANTITY SHEET

FINAL SUBMITTAL	PROJECT NO: 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JL	SHEET NO.: 11

Plotted on: 12/20/2011

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ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY BASE BID	QUANTITY ADD ALT- 1	QUANTITY ADD ALT - 2	QUANTITY ADD ALT - 3
	UTILITY					
CoSA						
624.1	GROUND BOXES TYPE A (122311)	EA	0	0	10	0
618	2" PVC (SCH 40)	LF	0	0	364	0
SAWS						
824	RELAY 3/4" SHORT SERVICE	EA	0	0	8	0
833	1" IRRIGATION METER AND METER BOX (COMPLETE)	EA	0	0	5	0
	DRAINAGE					
CoSA						
106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	0	194	0	0
309.11	7'X3' PRECAST REINFORCED CONCRETE BOX CULVERTS	LF	0	76	0	0
309.12	4'X3' PRECAST REINFORCED CONCRETE BOX CULVERTS	LF	0	30	0	0
400.1	EXCAVATION TRENCHING AND BACKFILLING	CY	0	946	0	0
401.1	REINFORCED CONCRETE PIPE (CLASSIII*) (24 INCHES DIA.)	LF	0	20	0	0
401.1	REINFORCED CONCRETE PIPE (CLASS III) (30 INCHES DIA.)	LF	0	737	0	0
401.1	REINFORCED CONCRETE PIPE (CLASS III) (36 INCHES DIA.)	LF	0	179	0	0
403.4	JUNCTION BOX (COMPLETE) 7'X7'X7'	EA	0	2	0	0
505.1	CONCRETE RIPRAP (5 INCHES THICK)	SY	18	54	0	0
522.1	SIDEWALK PIPE RAILING	LF	0	161	0	0
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	0	1027	0	0
TXDOT						
0432-2016	RIPRAP (STONE COMMON) (DRY) (8 IN)	CY	5	0	0	0
0459-2010	GABION MATTRESSES (GALV) (9 IN)	SY	0	52	0	0
0465-2001	INLET (COMPL) (TY C)	EA	0	21	0	0
0465-2190	INLET (COMPL) (DROP) (TY W-3)	EA	0	3	0	0
0466-2011	WINGWALL (SW-0) (HW=9 FT)	EA	0	1	0	0
0467-2050	SET (TY 1) (S= 6 FT) (HW= 6 FT) (3:1) (C)	EA	0	1	0	0
	MISCELLANEOUS					
CoSA						
100.1	MOBILIZATION	LS	1	1	1	1
100.2	INSURANCE AND BOND	LS	1	1	1	1
101.1	PREPARING RIGHT-OF-WAY	LS	1	1	1	1

ADDENDUM 01

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555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010
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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR
ESTIMATE AND QUANTITY SHEET

FINAL SUBMITTAL	PROJECT NO 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JL	SHEET NO. 11 A

Plotted on: 12/20/2011
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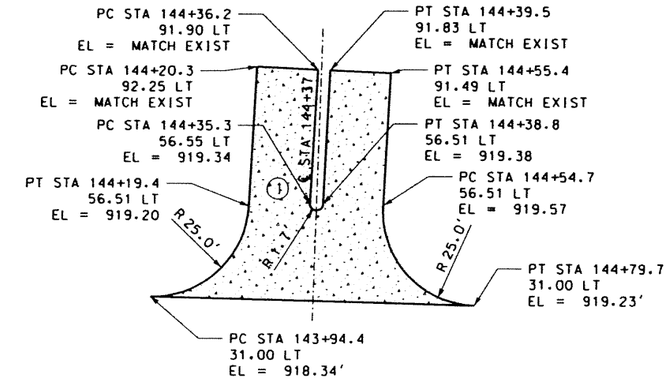
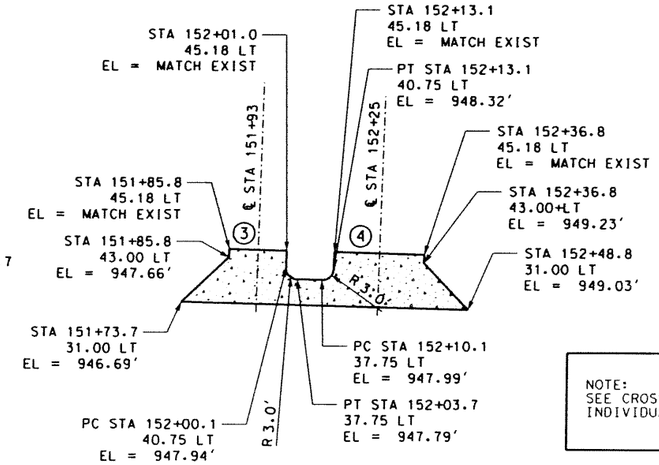
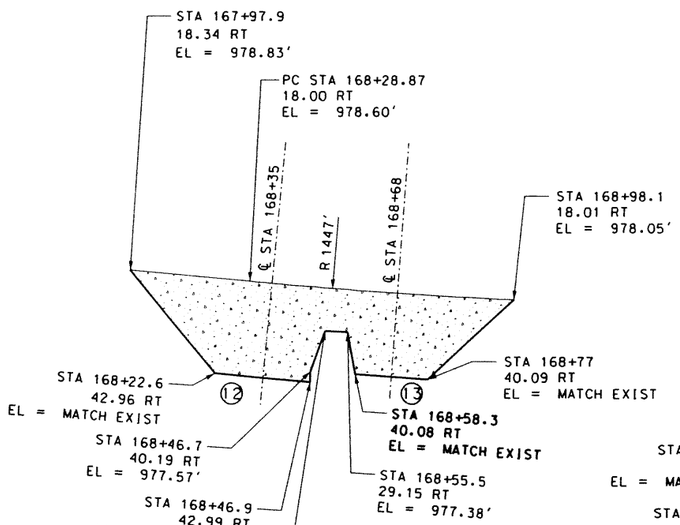
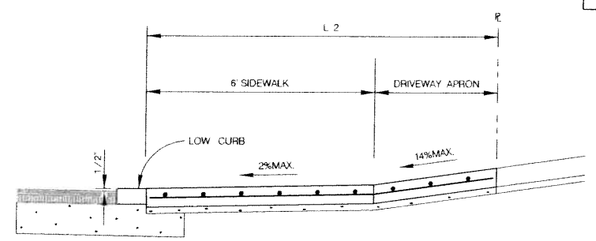




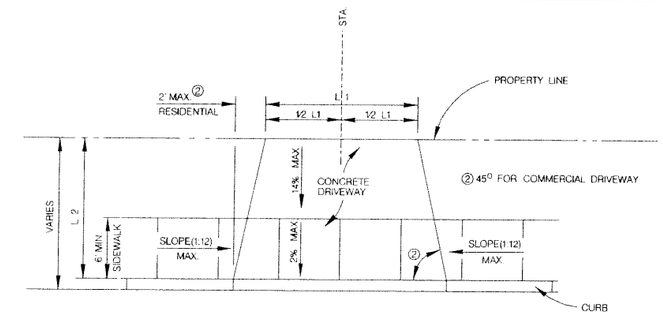
NOTE:
SEE CROSS SECTIONS FOR
INDIVIDUAL DRIVEWAY PROFILES.

DRIVEWAY SUMMARY					
DRIVEWAY NO.	STA	L1 (FT)	L2 (FT)	DRIVEWAY AREA (SY)	DRIVEWAY REMOVAL (SF)
1	144+37 LT	SPECIAL		130	3,770
2	148+85 LT	24	12	49	1,240
3	151+93 LT	SPECIAL		37	608
4	152+25 LT	SPECIAL		50	853
5	154+83 LT	SPECIAL		135	1,230
6	156+64 LT	25	25	86	1,195
7	157+76 LT	26	14	56	986
8	160+09 LT	SPECIAL		243	4,930
9	168+61 LT	18	24-25	120	805
10	163+68 RT	25	15	66	749
11	166+03 RT	26	18-20	76	758
12	168+35 RT	SPECIAL		112	805
13	168+68 RT	SPECIAL		82	649
14	169+54 RT	34	22-23	138	1,154
15	1107+84 LT	24	20	66	612
16	1104+26 RT	25	13	51	641
17	1103+61 RT	25	17	64	1,042
18	1102+89 RT	25	13	52	1,174
19	161+61 RT	30	12	56	0

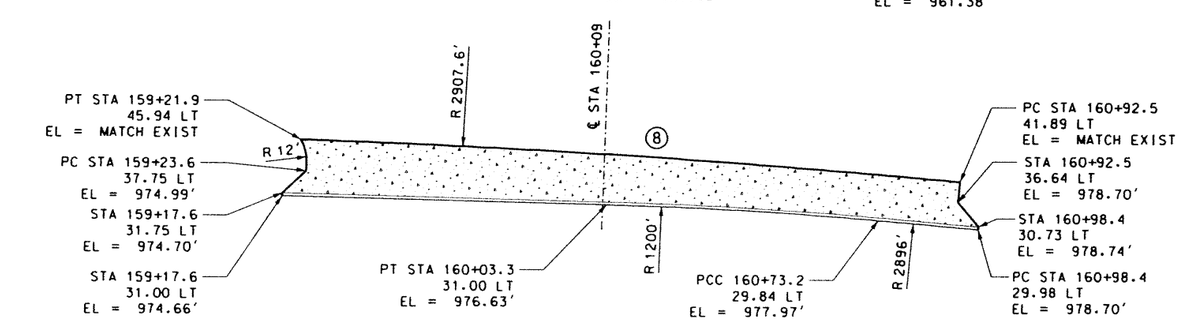


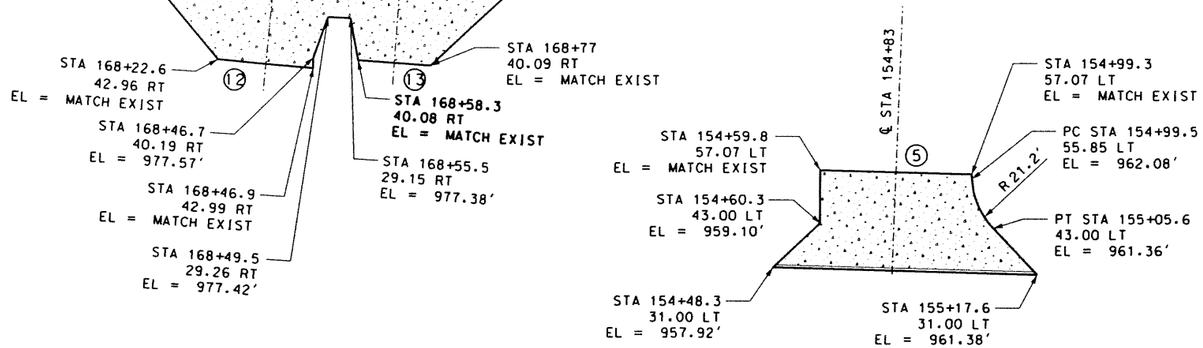


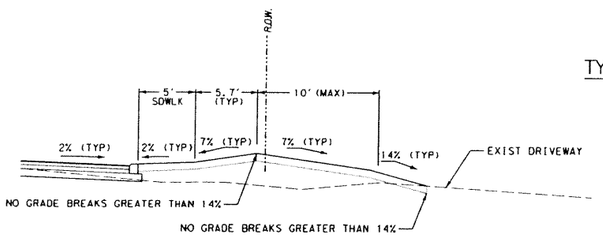
TYPICAL DRIVEWAY SECTION VIEW

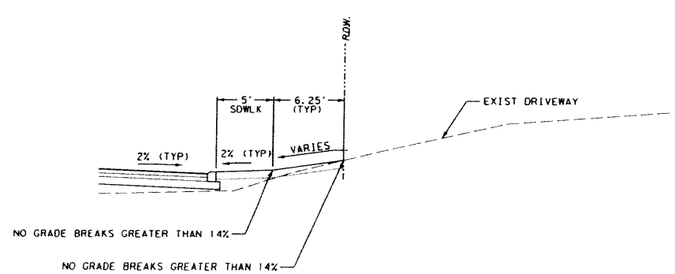


TYPICAL DRIVEWAY PLAN VIEW









TYPICAL DRIVEWAY PROFILES

SEE CITY OF SAN ANTONIO
TYPICAL CONCRETE DRIVEWAY DETAILS
FOR MORE INFORMATION

DESIGN

STATE OF TEXAS
DAN THOMA
98622
LICENSED
PROFESSIONAL ENGINEER

DAN THOMA, P.E. — 12/20/2011 DATE

REVIEW & APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 12/20/2011 DATE

PAPE-DAWSON ENGINEERS
555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

DRIVEWAY SUMMARY SHEET

SHEET 1 OF 1

ADDENDUM 01

FINAL SUBMITTAL	PROJECT NO.: 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JL	SHEET NO.: 79

Plotted on: 12/20/2011
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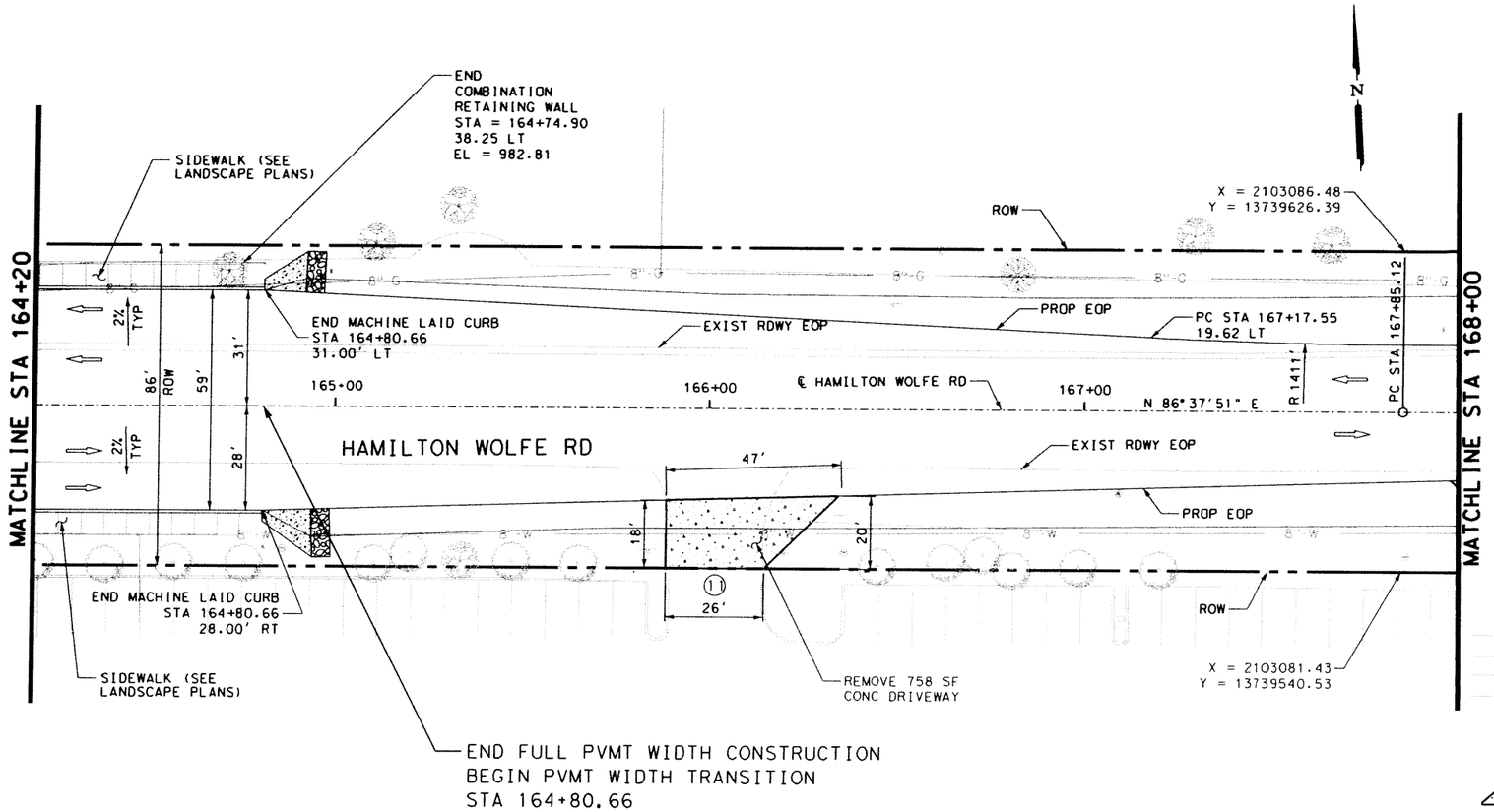


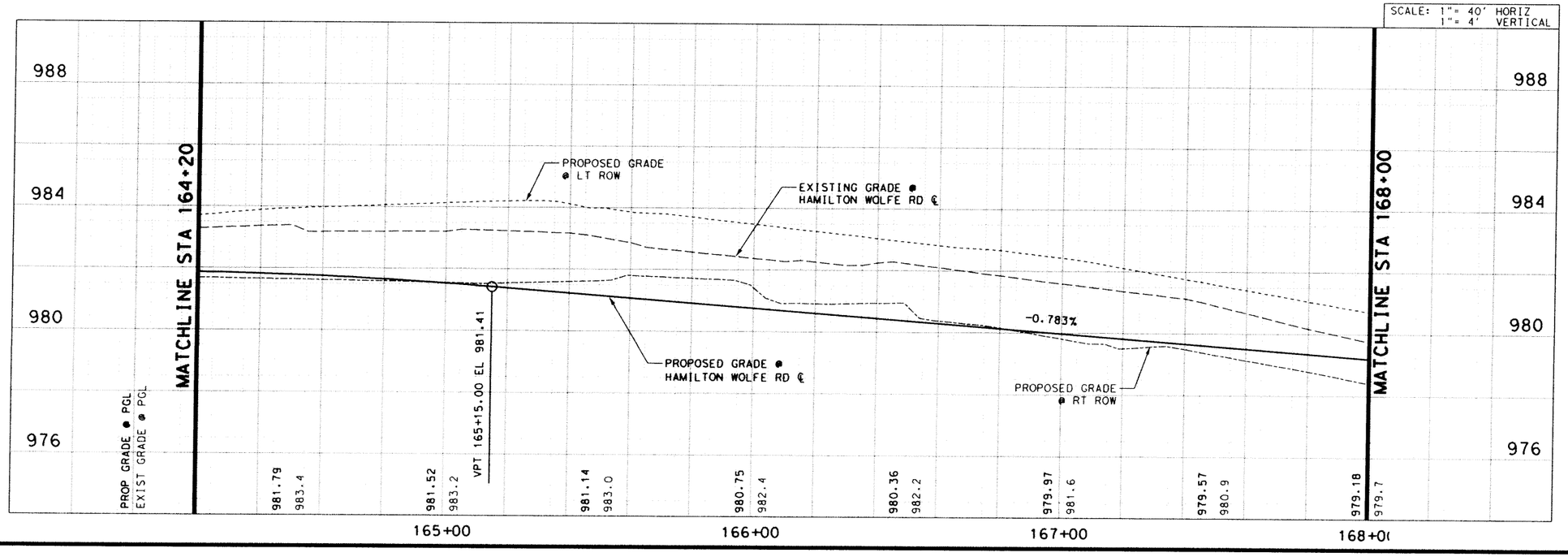
NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREA.
4. "THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-545-6005. CONTRACTOR TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION."
5. ALL DIMENSIONS ARE TO EDGE OF PVMT, CENTER OF MARKING OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. ALL EXISTING FEATURES ARE SHOWN SCREENED BACK i.e. FADED.
7. FOR INTERSECTION DETAILS REFER TO "INTERSECTION DETAIL" SHEETS.
8. FOR DRIVEWAY DETAILS REFER TO COSA STANDARD "TYPICAL CONCRETE DRIVEWAY DETAILS" AND "DRIVEWAY SUMMARY" SHEET.
9. THE CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL. THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA.

LEGEND

- OH E/T — OVERHEAD ELECTRIC
- 8" SS — SANITARY SEWER
- 6"-G — CPS GAS LINE
- 8" W — WATER
- EXISTING MAILBOX
- PROPOSED MAILBOX
- DRIVEWAY
- TRAFFIC FLOW ARROW

ADDENDUM 01



DESIGN

STATE OF TEXAS — DAN THOMA — 98622 — LICENSED — PROFESSIONAL ENGINEER

DAN THOMA, P.E. — 12/20/2011 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED — PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 12/20/2011 DATE

0 20 40 60

SCALE: 1" = 40'

PAPE-DAWSON ENGINEERS

555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010

TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

PLAN & PROFILE SHEET STA 164+20 TO STA 168+00

SHEET 8 OF 13

FINAL SUBMITTAL	PROJECT NO. 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JIL	SHEET NO. 70

Plotted on: 12/20/2011

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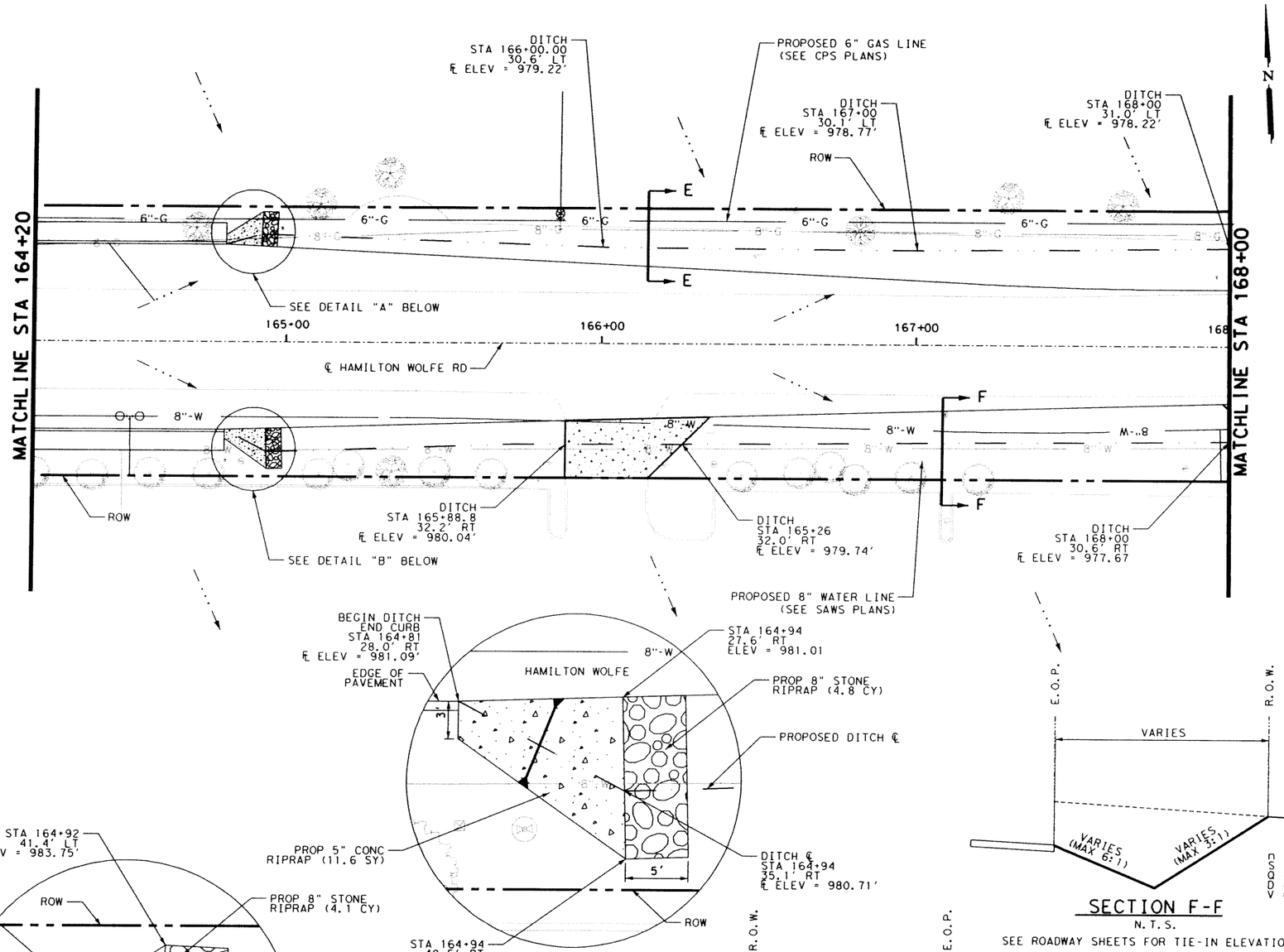
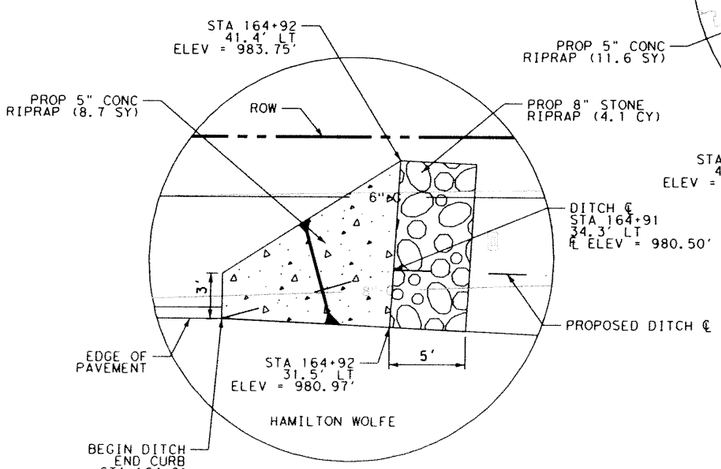


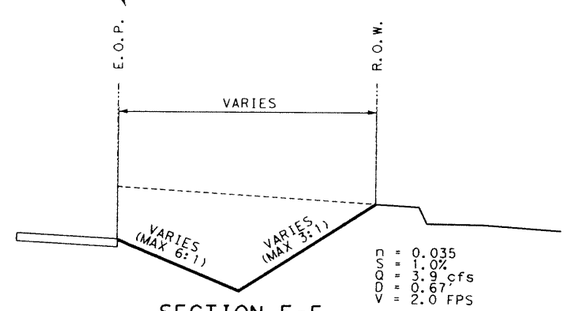
DETAIL "B"

N. T. S.



DETAIL "A"

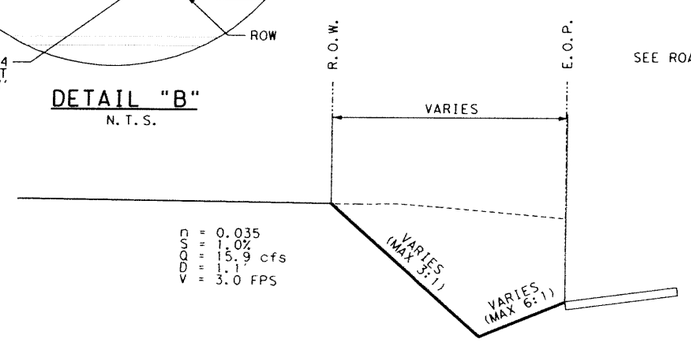
N. T. S.



SECTION F-F

N. T. S.

SEE ROADWAY SHEETS FOR TIE-IN ELEVATIONS



SECTION E-E

N. T. S.

SEE ROADWAY SHEETS FOR TIE-IN ELEVATIONS

NOTES:

1. ALL PIPES ARE NORMAL TO AND STRAIGHT FROM STRUCTURE TO STRUCTURE UNLESS OTHERWISE SHOWN.
2. ALL EXISTING FEATURES ARE SHOWN SCREENED BACK, i.e. FADED.
3. THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES INDICATED IN THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR SHALL VERIFY ACTUAL LOCATION PRIOR TO BEGINNING CONSTRUCTION.
4. REFER TO SAN ANTONIO DISTRICT STDS FOR INLET CONTROL POINTS
5. SEE HORIZONTAL ALIGNMENT SHEETS FOR ROADWAY ALIGNMENT.
6. SHORING OF EXIST POLES SUBSIDIARY TO INLET & MANHOLE ITEMS.
7. INLETS AND MANHOLES TO BE GROUTED TO PROVIDE POSITIVE DRAINAGE. SUBSIDIARY TO INLET AND MANHOLE ITEMS.
8. MANHOLE LIDS TO BE BOLTED AND PLACED AT FINISHED GRADE AND OUTSIDE OF NORMAL WHEEL PATH (CENTER OF LANE).
9. MANUFACTURER TO PROVIDE DESIGN OF NON-STANDARD BOX SIZES AND DETAILS FOR EQUALIZATION OPENINGS.
10. ALL STORM DRAIN SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH TXDOT ITEM 402 "TRENCH EXCAVATION PROTECTION."
11. ALL INLET STATION, OFFSET, AND ELEVATION REFERENCES ARE TO THE INLET STRUCTURE CONTAINING THE DOWNSTREAM LATERAL/PIPE.
12. KNOCKOUTS BETWEEN CONNECTING INLETS TO MAINTAIN A MINIMUM OPENING OF 3.6' x 2.0' FOR CONVEYANCE. SEE DETAIL ON SHEET 1.
13. INSTALL CURB INLETS AT THE SAME LONGITUDINAL SLOPE AS ROADWAY PROFILE.

LEGEND

	DRAINAGE FLOW ARROW
LINE-X1	STORM DRAIN LINE W/ DESIGNATION
CI-X1	CURB INLET W/ DESIGNATION
	PROPOSED CURB INLET W/ EXTENSION
OH E/T	OVERHEAD ELECTRICAL/TELEPHONE
8"W	8 INCH WATER LINE
8"-G	EXIST CPS GAS LINE
6"-G	PROPOSED CPS GAS LINE
8"SS	8 INCH SANITARY SEWER
8"-W	EXIST 8" WATER
	FIRE HYDRANT
MH	MANHOLE
SS	SANITARY SEWER MANHOLE

STATE OF TEXAS
LUKE REED
101282
LICENSED
PROFESSIONAL ENGINEER
LUKE REED, P.E.
12/20/2011
DATE

REVIEW & APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E.
12/20/2011
DATE

0 20 40 60
SCALE: 1" = 40'

ADDENDUM 01

PAPE-DAWSON ENGINEERS
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TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

STORM DRAIN PLAN & PROFILE LINE
STA 164+00TO 167+80

SHEET 8 OF 11

FINAL SUBMITTAL	PROJECT NO. 524110 - 05		DATE: 12/20/2011
DRWN BY:	DSGN BY: DT	CHKD BY: JL	SHEET NO. 96

Plotted on: 12/20/2011
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Plotted on: 12/20/2011

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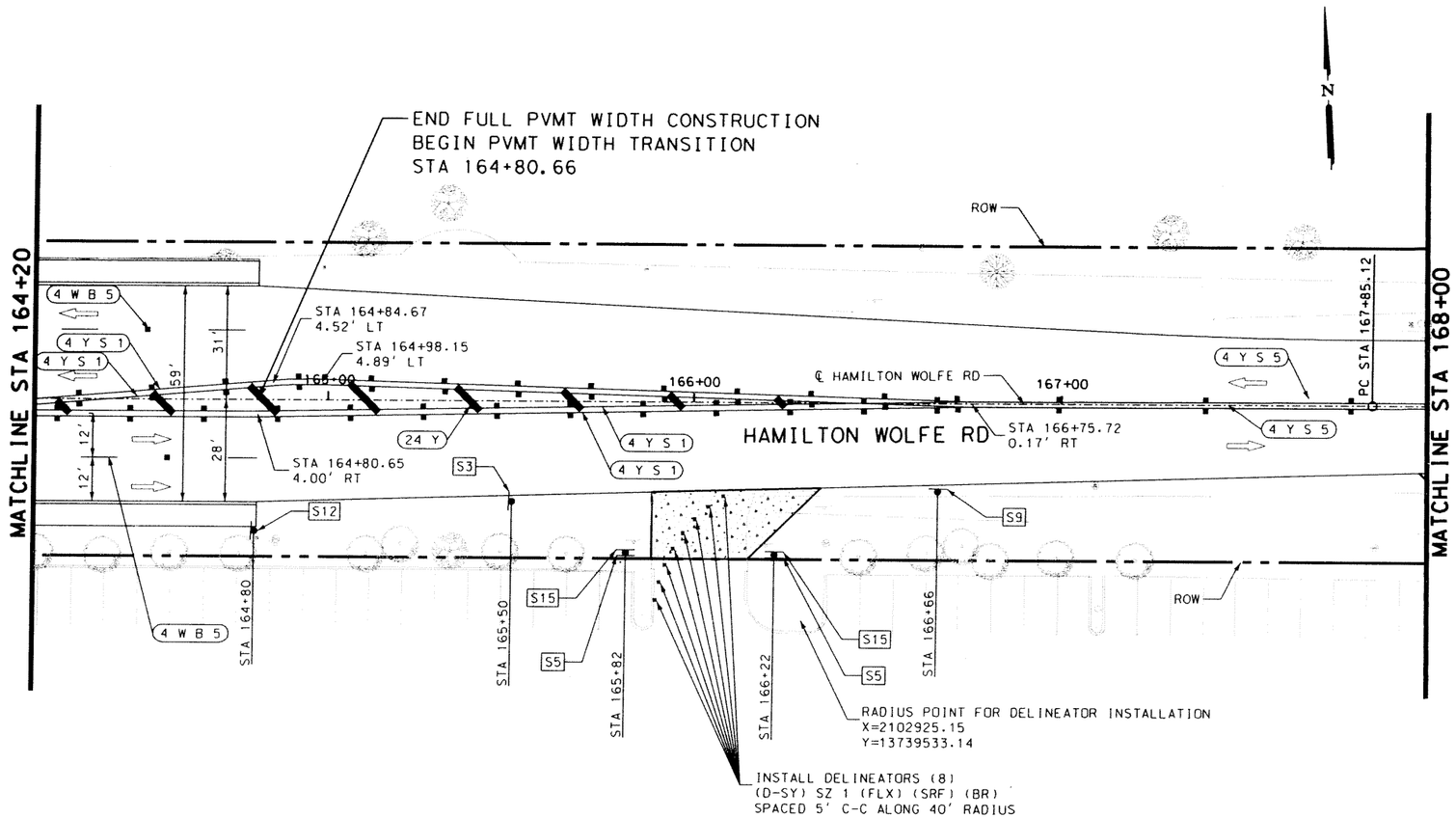

LEGEND

TRAFFIC FLOW ARROWS

SIGN POST ASSEMBLY

NOTES:

1. ALL PAVEMENT MARKINGS SHOWN ARE PROPOSED.
2. ALL EXISTING CURBS ARE SHOWN SCREENED BACK, i.e. FADED.
3. ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PVMT. TO CENTER OF PVMT. MARKINGS UNLESS OTHERWISE NOTED.
4. FOR ADDITIONAL DETAILS SEE CoSA TYPICAL STANDARD SHEETS.
5. ALL SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS ARE TO BE STAKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
6. RELOCATED SIGNS TO BE INSTALLED ON NEW SIGN POSTS (EXISTING SIGN TO BE REUSED). ALL OTHER EXISTING SIGNS TO BE REMOVED AND SALVAGED AS DIRECTED BY THE ENGINEER.

ADDENDUM 01

DESIGN

DAN THOMA, P.E. 12/20/2011 DATE

REVIEW & APPROVAL

JAMES A. LUTZ, P.E. 12/20/2011 DATE

0 20 40 60

SCALE: 1" = 40'

SIGNING LEGEND

STOP	R1-1 30X30	S1
YIELD	R1-2 36X36X36	S2
SPEED LIMIT 30	R2-1 24X30	S3
	R3-4 24X24	S4
ONLY	R3-5R 30X36	S5
RIGHT LANE MUST TURN RIGHT	R3-7R 30X30	S6
CENTER LANE ONLY	R3-9b SPLa 24X36	S7
	R4-7 24X30	S8
NO PARKING ANY TIME	R7-1 12X18	S9
END	M4-6 24X12	S10
LANE ENDS MERGE LEFT	W9-2L 30X30	S11
RIGHT LANE ENDS	W9-1R 30X30	S12
SPEED LIMIT 40	R2-1 24X30	S13
25 M.P.H	S1-1 30X30 W13-1 18X18	S14
DO NOT ENTER	R5-1 30X30	S15
SPECIAL CITY SIGN	SEE PLAN SHEET	S16
	NOT USED	S17
EXCEPT BUSES	SPECIAL 30X16	S18

RAISED PREFLECTIVE PAVEMENT MARKING & MARKERS

WHITE/YELLOW — BROKEN/SOLID/DOT
WIDTH (IN) — MARKER TYPE (BELOW)
4 Y S 1

1 - TY II A-A @ 20' C-C
2 - TY II-A-A @ 40' C-C
3 - TY II-A-A @ 2' C-C
4 - TY I-C @ 20' C-C
5 - TY I-C @ 40' C-C
6 - REFL PAV MRK (W) ARROW
7 - REFL PAV MRK (W) WORD
8 - REFL PAV MRK (Y) MED NOSE
9 - REF PAV MRK 18" (YLD TRI)

PAPE-DAWSON ENGINEERS

555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000 FAX: 210.375.9010

TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

HAMILTON WOLFE RD & EWING HALSELL DR

PAVEMENT MARKING AND SIGNING PLAN STA 164+20 TO STA 168+00

SHEET 8 OF 10

FINAL SUBMITTAL	PROJECT NO. 524110 - 05		DATE 12/20/2011
DRWN BY	DSGN BY DT	CHKD BY JL	SHEET NO. 122

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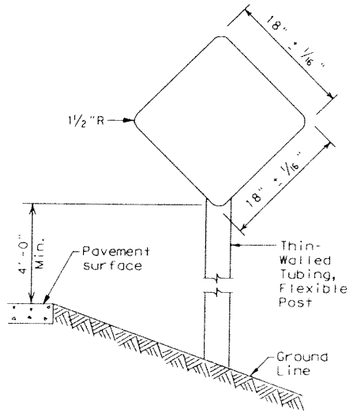
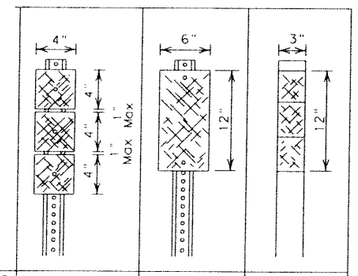


TYPE 1	TYPE 4
18" x 18" Yellow Type E Sheeting	18" x 18" Red Type D Sheeting

Use Sign blank 0.080" thick sheet aluminum conforming to ASTM B-209 Alloy 6061-T6. Use reflective sheeting in accordance with DMS 8300.

TYPES 1 and 4



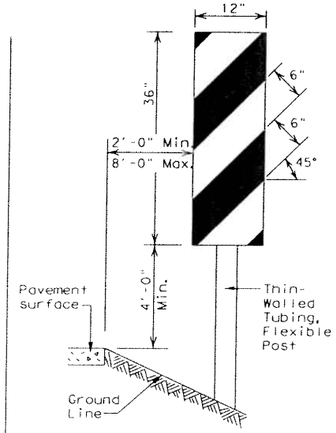
Number of Reflectors	X	Y	Z
Post	WC	WC	FLX

NOTES

1. All type 2 object markers are yellow
2. WC-wing channel post, 1.12 lbs/ft steel per ASTM A 1011 SS Gr 50, or ASTM A499
3. FLX-flexible post (embedded and surface mount)

Typically used on bridge rail approach ends, some bridge abutments and at bridge rail exits on two-lane, two-way roadways

TYPE 2



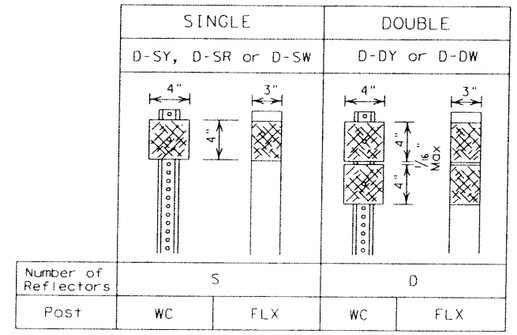
OM-3 Directions

L - Placed on Left Side
R - Placed on Right Side
C - Placed on Center

Use Sign blank .080" thick sheet aluminum conforming to ASTM B-209 Alloy 6061-T6. Use reflective sheeting in accordance with DMS 8300, Type E. Use at bridges with no approach rails.

TYPE 3

OBJECT MARKERS

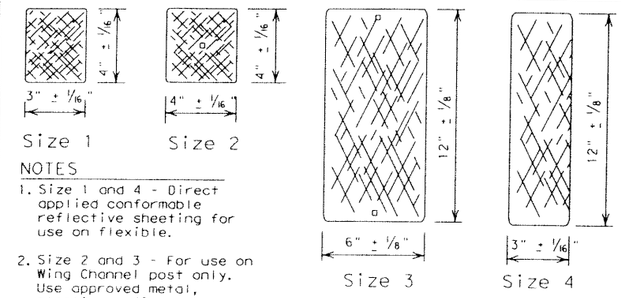


Number of Reflectors	S		D	
Post	WC	FLX	WC	FLX

NOTES

1. Reflector Units: W-White, R-Red, Y-Yellow
2. Length of post may vary to meet field conditions.
3. WC-wing channel post, 1.12 lbs/ft Steel per ASTM A 1011 SS Gr 50, or ASTM A499
4. FLX-flexible post (embedded and surface mount)

DELINEATORS



Size 1 Size 2 Size 3 Size 4

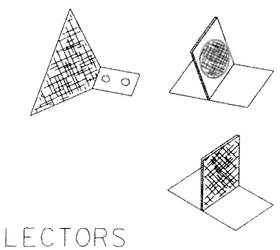
NOTES

1. Size 1 and 4 - Direct applied conformable reflective sheeting for use on flexible.
2. Size 2 and 3 - For use on Wing Channel post only. Use approved metal, plastic or fiberglass backplate with 17/64" square mounting holes.
3. Yellow, White & Red: Conformable Reflective Sheeting as per DMS 8300.

REFLECTOR UNIT SIZES

NOTES

1. A reflector unit or sheeting (per DMS 8600) attached to a bracket to facilitate the mounting of the reflector on concrete traffic barrier, railing, metal beam guard fence (MBGF) or other locations shown on the plans. A list of appoved barrier reflectors can be found at: www.txdot.gov
2. Yellow, White and Red: Conformable Reflective Sheeting as per DMS 8300.



BARRIER REFLECTORS

D & OM DESCRIPTIVE CODES

INSTL DEL ASSM (D-XX)SZ X (XXX)XXX(XX)

NUMBER OF REFLECTORS
S = Single
D = Double

COLOR OF REFLECTORS
W = White
Y = Yellow
R = Red

REFLECTOR UNIT SIZE
1 or 2

TYPE OF POST OR DELINEATOR
WC = Wing Channel Post
FLX = Flexible Post
TYC = Barrier Reflector

TYPE OF MOUNT
GND = Embedded (drivable or set in concrete)
CTB = Concrete Barrier Mount
GF1 or GF2 = Guard Fence Attachment
SRF = Surface Mount

DIRECTION
If Required
BI = Bi-Directional
BR = Bi-Directional with red on back

INSTL OM ASSM (OM-XX) (XXX)XXX(XX)

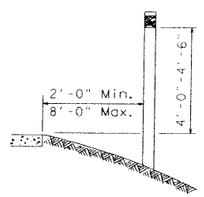
TYPE OF OBJECT MARKER
1, 2, 3, or 4

NUMBER OF REFLECTORS OR DIRECTION
X = 3-Size 2 reflector units (Type 2 only)
Y = 1-Size 3 reflector unit (Type 2 only)
Z = 3-Size 1 or 1-Size 4 reflector unit(s) (Type 2 only)
L = Left Side (Type 3 Object Marker only)
R = Right Side (Type 3 Object Marker only)
C = Center (Type 3 Object Marker only)

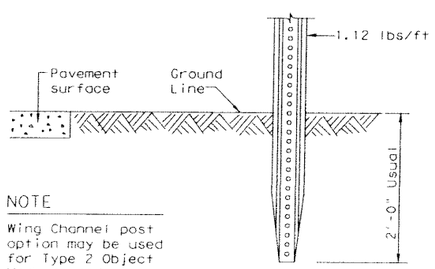
TYPE OF POST
WC = Wing Channel Post
FLX = Flexible Post
TWT = Thin Walled Tubing

TYPE OF MOUNT
GND = Embedded (drivable or set in concrete)
SRF = Surface Mount

DIRECTION
If Required
BI = Bi-Directional



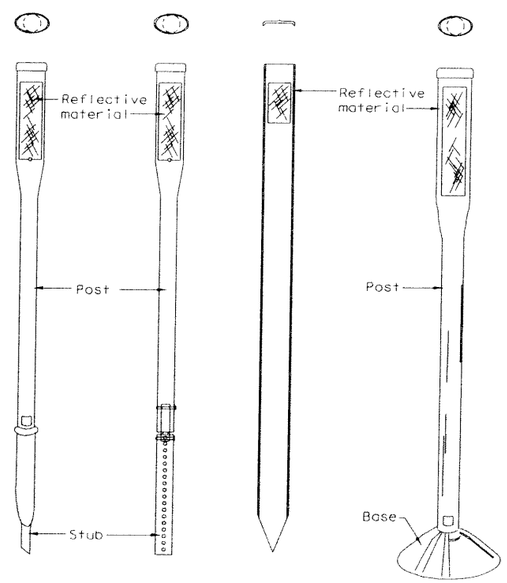
TYPICAL INSTALLATION



NOTE

Wing Channel post option may be used for Type 2 Object Markers and delineators only.

WING CHANNEL

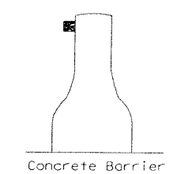


EMBEDDED SURFACE MOUNT

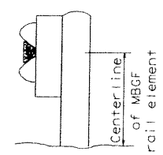
NOTES

1. See Material Producer List for approved devices.
2. Install to manufacturer's recommenations.

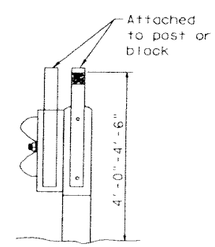
FLEXIBLE POSTS



CTB



GF1



GF2

BARRIER REFLECTORS

GENERAL NOTES

1. Place delineators on a section of roadway the same distance from the edge of pavement.
2. Where a restriction prevents consistent placement from the pavement edge, place the affected object markers in line with the innermost edge of the obstruction.
3. When object markers are more than 8'-0" from the edge of the pavement, it may not be possible to maintain a height of 4'-0"-4'-6". If this is the case, place the object markers as close to the desired height as possible.
4. Install all delineators, object markers and barrier reflectors in accordance with the manufacturer's recommendation.

DEPARTMENTAL MATERIAL SPECIFICATIONS	
FLEXIBLE DELINEATOR & OBJECT MARKER POSTS (EMBEDDED & SURFACE MOUNT TYPES)	DMS-4400
SIGN FACE MATERIALS	DMS-8300
DELINEATORS AND OBJECT MARKERS	DMS-8600

Texas Department of Transportation
Traffic Operations Division

DELINEATOR & OBJECT MARKER INSTALLATION AND MATERIAL DESCRIPTION D & OM(1)-10

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REVISIONS
10-09
4-10

CONT	SECT	JOB	HIGHWAY
DIST		COUNTY	SHEET NO.
			144A

DATE:
FILE: