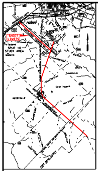
HIGHWAY: SPUR 10
DESCRIPTION:
FROM: US 59
TO: SH 36
CSJ NO.: 0187-05-048, ETC. REVISION DATE:
FILE NO.: APPROVAL DATE:
DATE:


SHEET LIMITS

VICINITY MAP

N. T. S.

RURAL ARTERIAL DESIGN SPEED IS 70 MPH

TRINITY RD. DESIGN SPEED IS 40 MPH

SCHEMATIC LAYOUT
FORT BEND COUNTY
SPUR 10
FROM: US 59
TO: SH 36
Texas Department of Transportation
HOUSTON DISTRICT
DATE:
ORIGINAL APPROVED:
REVISED:
REVISION(S) APPROVED:

NOT A BIDDING DOCUMENT

GARY GEHBAUER, P.E.
71173
TEXAS REGISTRATION NUMBER
DATE

SCALE: 0 100 200 300 400

LEGEND

PLAN LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES	━━	5	BLACK	0
FRONTAGE ROADS AND RAMPS	──	1	BLUE	1
TURNAROUNDS	──	1	BLUE	1
EXISTING RDWY TO BE REMOVED	▰ ▰	0	BLACK	0
EXISTING RDWY TO REMAIN	──	2	GREEN	2
EMBANKMENT	─^─^─	3	RED	3
CONTROL OF ACCESS	──‖──	3	RED	3
PROP ROW	━ · ━	5	BLACK	0
EXISTING ROW	─ ─	0	BLACK	0
ACCESS ROAD	·······	1	BLUE	1
PLANIMETRIC	♡	2	GREEN	2
TRAFFIC COUNT YEAR (2021) DHV	▬	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	──	4	ORANGE	6
DEPRESSED	─⌃─⌃─	3	RED	3
FUTURE	─ ─ ─	1	BLUE	1
RETAINING WALL	━━	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	▬	7	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES	▬	9	BROWN	7
TEMPORARY CONNECTIONS	▬	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	──	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	▬	10	PURPLE	203

PROFILE LEGEND

PROP. PGL	├──┤
EXIST. PGL	─ ─
EXISTING GROUND	─ ─
EXISTING R.O.W. LT	─ ─
EXISTING R.O.W. RT	─ ─
100 YEAR WATER SURFACE ELEVATION	──

UTILITY LEGEND

EXISTING TELEPHONE COPPER CABLE	─ ─ ●─ ─ ─ ●─ ─
EXISTING PVC CONTAINING TELEPHONE LINES (UNLESS NOTED OTHERWISE)	─ ─ ↑─ ─ ─ ↑─ ─
EXISTING WATERLINE	─ ─ ●─ ─ ─ ●─ ─
EXISTING GAS UTILITY OR GAS PIPELINE	─ ─ GAS─ ─ ─ GAS─ ·
EXISTING TELEPHONE PULL BOX	■
EXISTING TELEPHONE MANHOLE	●
EXISTING TELEPHONE EQUIPMENT ROOM OR SHELTER	▼
PRIVATE WATER WELL	⊙W
EXISTING CASING	▨
PROPOSED CASING	▨
EASEMENT	── ── ── ·

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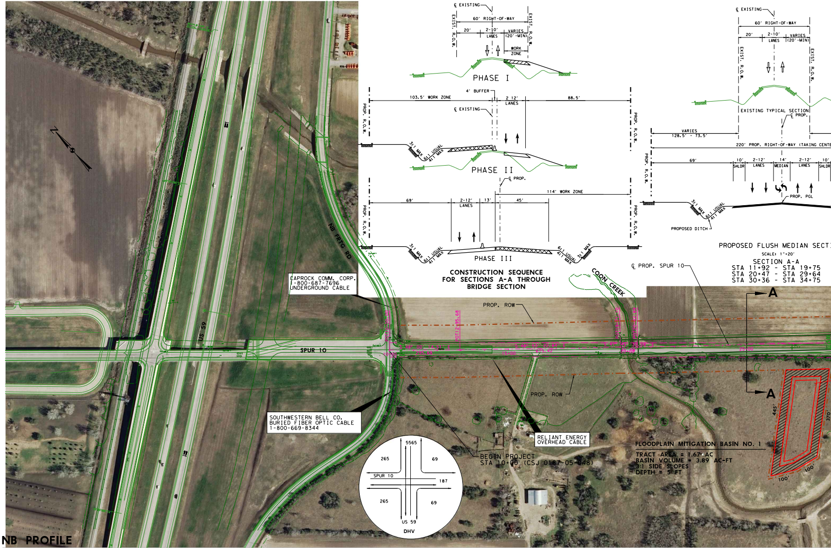
Texas Department of Transportation

BROWN & GAY ENGINEERS, INC.
CIVIL ENGINEERS & SURVEYORS
HOUSTON, TEXAS

SPUR 10

SCHEMATIC LAYOUT


US 59
SPUR 10
NB FRTG RD
CAPROCK COMM. CORP.
1-800-687-7696
UNDERGROUND CABLE
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344
RELIANT ENERGY
OVERHEAD CABLE
BEGIN PROJECT
STA 10+00 (CSJ 0187-05-048)
PROP. ROW
PROP. ROW
POT10+00.00
POT12+95.68
POT19+71.10
POT20+42.89
S 48° 00' 14.51" E
S 48° 53' 22.84" E
S 47° 45' 32.08" E
295.68
675.42
10+00
15+00
20+00
25+00
COON CREEK
℄ PROP. SPUR 10
A
A
180'
445'
370'
100'
100'
5565
265
69
187
265
69
US 59
DHV
℄ EXISTING
60' RIGHT-OF-WAY
EXIST. R.O.W.
EXIST. R.O.W.
20'
2-10' LANES
VARIES (20'-MIN)
WORK ZONE
PHASE I
4' BUFFER
103.5' WORK ZONE
2 12' LANES
88.5'
℄ EXISTING
PROP. R.O.W.
PROP. R.O.W.
3:1 MAX
6:1 USUAL
4:1 MAX
PHASE II
℄ PROP.
114' WORK ZONE
69'
2-12' LANES
13'
45'
PROP. R.O.W.
PROP. R.O.W.
3:1 MAX
6:1 USUAL
4:1 MAX
6:1 USUAL
4:1 MAX
3:1 MAX
PHASE III
℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10' LANES
VARIES (20'-MIN)
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
VARIES
128.5' - 73.5'
220' PROP. RIGHT-OF-WAY (TAKING CENTE
69'
10' SHLDR
2-12' LANES
14' MEDIAN
2-12' LANES
10' SHLDR
PROP. R.O.W.
PROP. R.O.W.
PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
PROPOSED DITCH

CONSTRUCTION SEQUENCE FOR SECTIONS A-A THROUGH BRIDGE SECTION

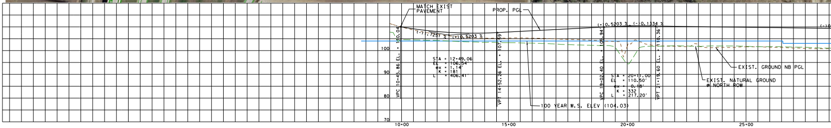
PROPOSED FLUSH MEDIAN SECTI

SCALE: 1"=20'

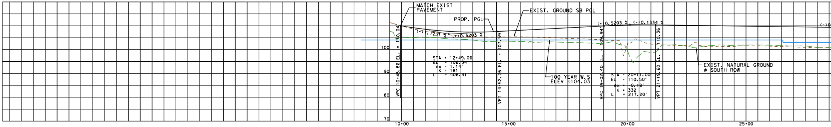
SECTION A-A
STA 11+92 - STA 19+75
STA 20+47 - STA 29+64
STA 30+36 - STA 34+75

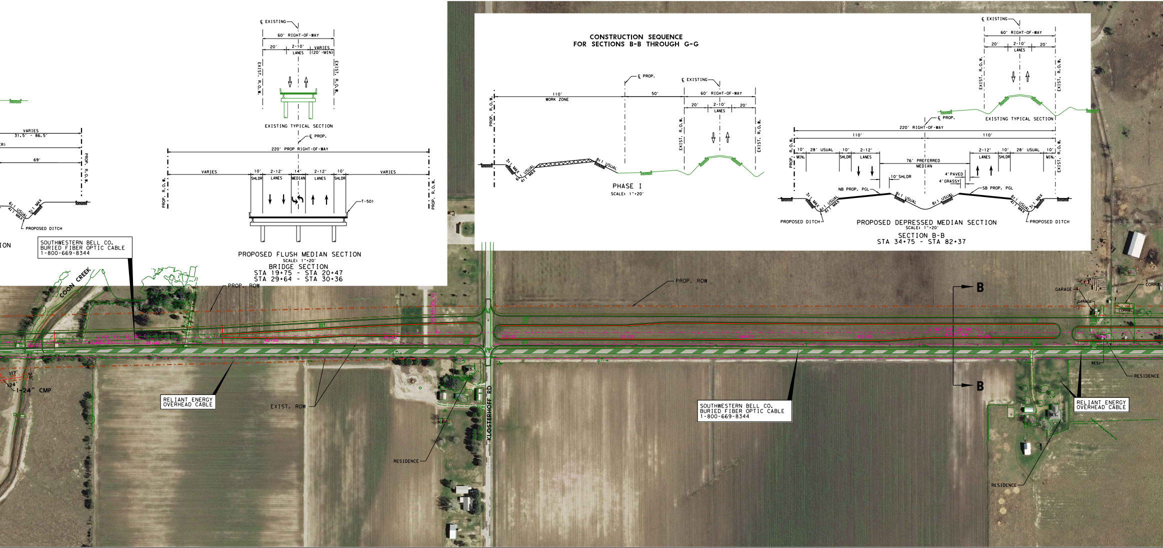
FLOODPLAIN MITIGATION BASIN NO. 1
TRACT AREA = 1.67 AC
BASIN VOLUME = 3.89 AC-FT
3:1 SIDE SLOPES
DEPTH = 5 FT

NB PROFILE



SB PROFILE





VARIES
31.5' - 86.5'
69'
PROP. R.O.W.
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
ION
℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10'
LANES
VARIES
(20'-MIN)
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
220' PROP RIGHT-OF-WAY
VARIES
10'
SHLDR
2-12'
LANES
14'
MEDIAN
2-12'
LANES
10'
SHLDR
VARIES
PROP. R.O.W.
PROP. R.O.W.
T-501
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344
COON CREEK
PROP. ROW
117'
20'
124'
1-24" CMP
RELIANT ENERGY
OVERHEAD CABLE
EXIST. ROW
RES.
RESIDENCE
KLOSTERHOFF RD
PROP. ROW
B
B
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344
GARAGE
GARAGE
CORRAL
CORRAL
RES.
RESIDENCE
RELIANT ENERGY
OVERHEAD CABLE
RES.
RESIDENCE

PROPOSED FLUSH MEDIAN SECTION

SCALE: 1"=20'

BRIDGE SECTION
STA 19+75 - STA 20+47
STA 29+64 - STA 30+36

CONSTRUCTION SEQUENCE
FOR SECTIONS B-B THROUGH G-G

PROP. R.O.W.
110'
WORK ZONE
℄ PROP.
50'
℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10'
LANES
20'
EXIST. R.O.W.
EXIST. R.O.W.
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL

PHASE I

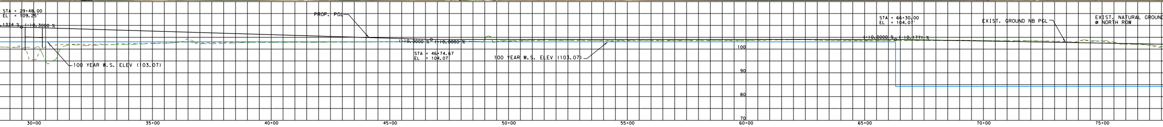
SCALE: 1"=20'

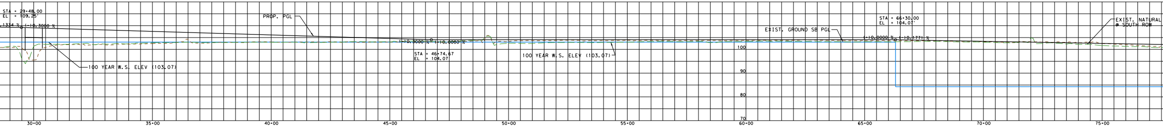
℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10'
LANES
20'
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
220' RIGHT-OF-WAY
110'
110'
PROP. R.O.W.
10'
MIN.
28' USUAL
10'
SHLDR
2-12'
LANES
76' PREFERRED
MEDIAN
2-12'
LANES
10'
SHLDR
28' USUAL
10'
MIN.
EXIST. R.O.W.
10' SHLDR
4' PAVED
4' GRASSY
NB PROP. PGL
SB PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH

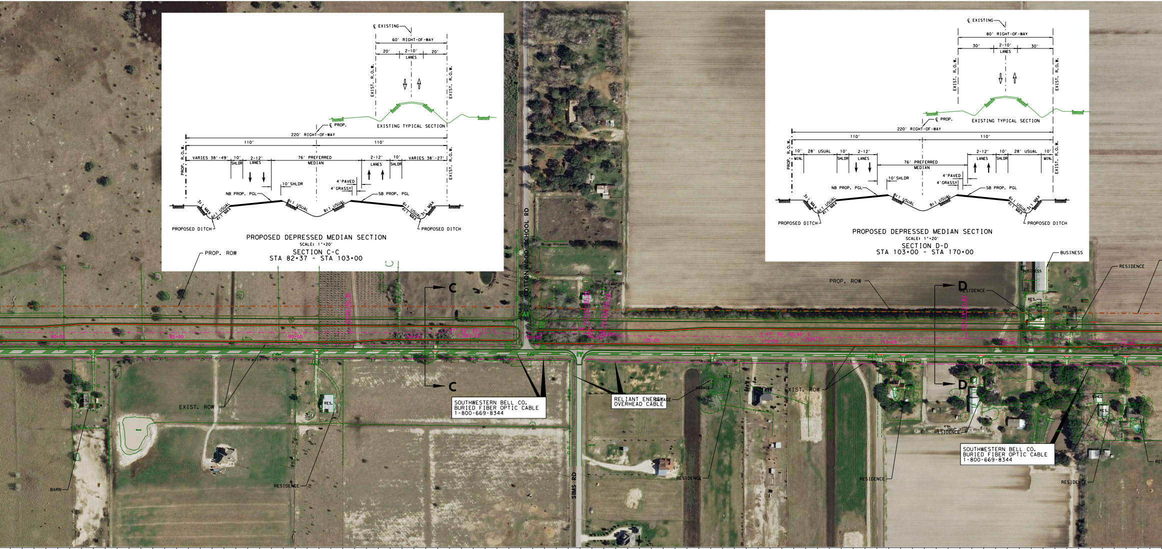
PROPOSED DEPRESSED MEDIAN SECTION

SCALE: 1"=20'

SECTION B-B
STA 34+75 - STA 82+37



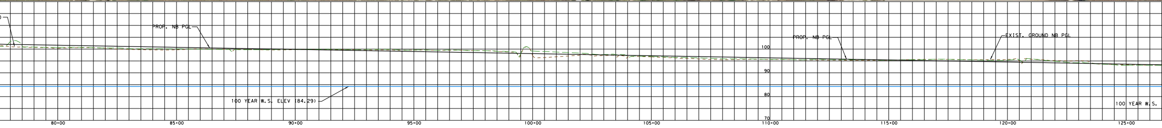


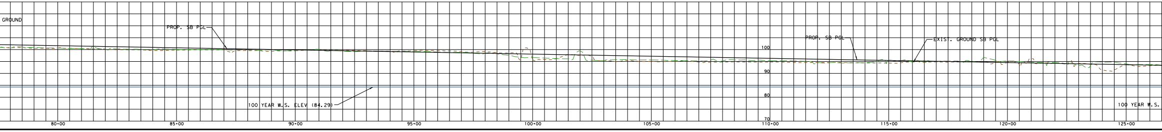


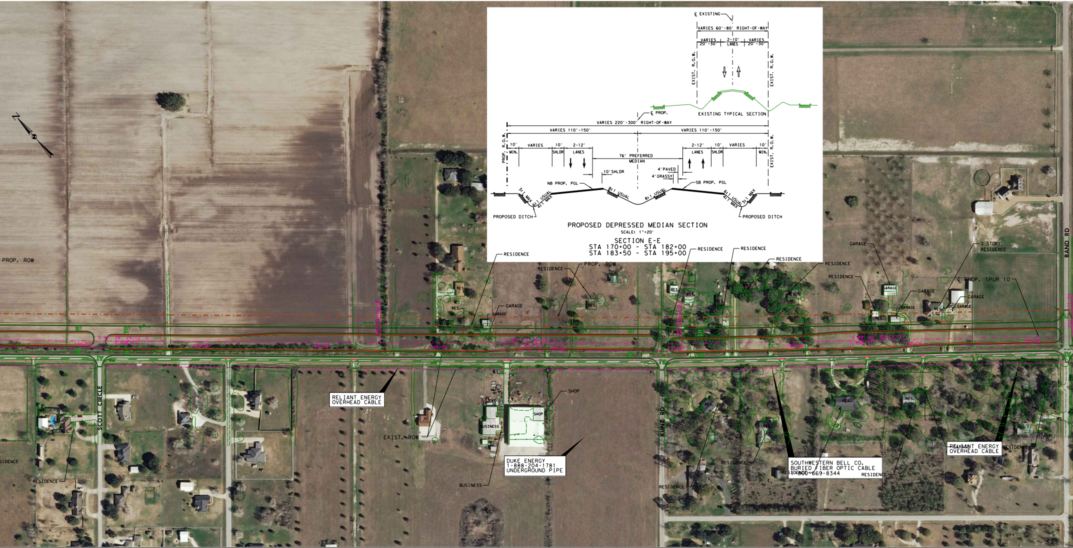
PROPOSED DEPRESSED MEDIAN SECTION
SCALE: 1"=20'
SECTION C-C
STA 82+37 - STA 103+00

PROPOSED DEPRESSED MEDIAN SECTION
SCALE: 1"=20'
SECTION D-D
STA 103+00 - STA 170+00

℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10'
LANES
20'
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
220' RIGHT-OF-WAY
110'
110'
PROP. R.O.W.
VARIES 38'-49'
10'
SHLDR
2-12'
LANES
76' PREFERRED
MEDIAN
2-12'
LANES
10'
SHLDR
VARIES 38'-27'
EXIST. R.O.W.
10'SHLDR
4'PAVED
4'GRASSY
NB PROP. PGL
SB PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH
℄ EXISTING
80' RIGHT-OF-WAY
30'
2-10'
LANES
30'
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
220' RIGHT-OF-WAY
110'
110'
PROP. R.O.W.
10'
MIN.
28' USUAL
10'
SHLDR
2-12'
LANES
76' PREFERRED
MEDIAN
2-12'
LANES
10'
SHLDR
28' USUAL
10'
MIN.
EXIST. R.O.W.
10'SHLDR
4'PAVED
4'GRASSY
NB PROP. PGL
SB PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH
PROP. ROW
PROP. ROW
C
C
D
D
COTTONWOOD SCHOOL RD
SIMS RD
80+00
85+00
90+00
100+00
105+00
110+00
115+00
120+00
EXIST. ROW
EXIST. ROW
RES.
RES.
RES.
RES.
RES.
RES.
RES.
BARN
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
BUSINESS
BUSINESS
CARPORT
GARAGE
GARAGE
SHED
SHED
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344
RELIANT ENERGY
OVERHEAD CABLE
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344





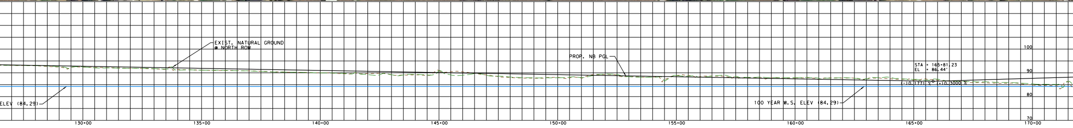

℄ EXISTING
VARIES 60'-80' RIGHT-OF-WAY
VARIES 20'-30'
2-10' LANES
VARIES 20'-30'
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
VARIES 220'-300' RIGHT-OF-WAY
VARIES 110'-150'
VARIES 110'-150'
PROP. R.O.W.
10' MIN.
VARIES
10' SHLDR
2-12' LANES
76' PREFERRED MEDIAN
2-12' LANES
10' SHLDR
VARIES
10' MIN.
EXIST. R.O.W.
10'SHLDR
4'PAVED
4'GRASSY
NB PROP. PGL
SB PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH

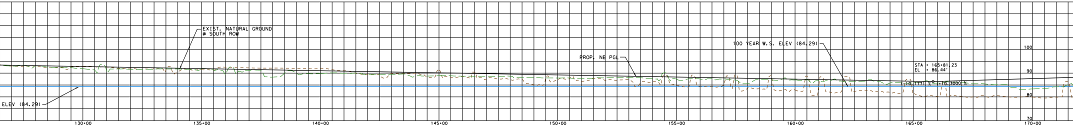
PROPOSED DEPRESSED MEDIAN SECTION

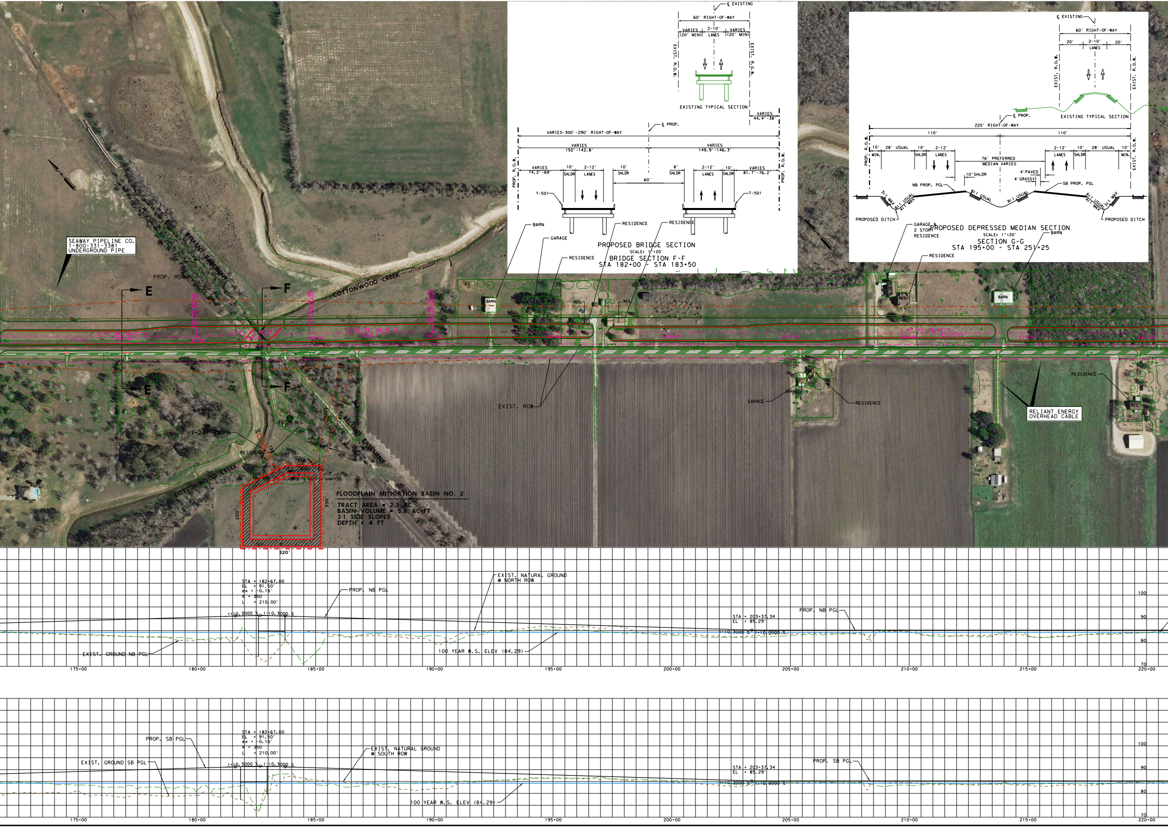
SCALE: 1"=20'

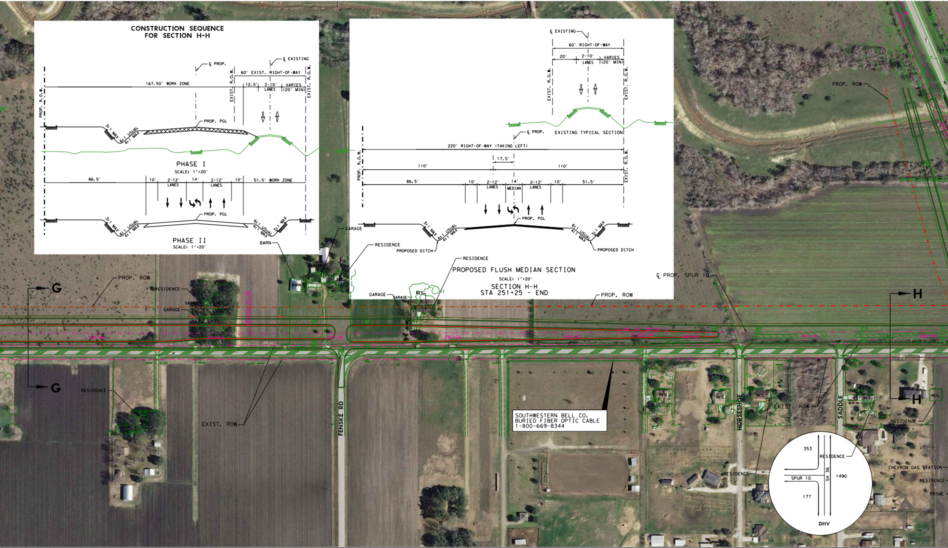
SECTION E-E
STA 170+00 - STA 182+00
STA 183+50 - STA 195+00

-PROP. ROW
RESIDENCE
RESIDENCE
PROP. ROW
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
RESIDENCE
GARAGE
2 STORY RESIDENCE
BAND RD
℄ PROP. SPUR 10
RES.
RES.
GARAGE
GARAGE
RES.
RES.
RES.
RES.
RES.
RES.
GARAGE
GARAGE
GARAGE
GARAGE
RES.
RES.
S 49° 03' 02.12" E
1,650.37'
155+00
160+00
165+00
170+00
SCOTT CIRCLE
RES.
SIDENCE
RESIDENCE
RELIANT ENERGY OVERHEAD CABLE
EXIST. ROW
SHOP
SHOP
BUSINESS
DUKE ENERGY
1-888-204-1781
UNDERGROUND PIPE
BUSINESS
KUNZ RD
RES.
RES.
RES.
RES.
GARAGE
RESIDENCE
RESIDENCE
RESIDENCE
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344
RESIDENCE
RESIDENCE
RELIANT ENERGY OVERHEAD CABLE
RESIDENCE






℄ EXISTING
60' RIGHT-OF-WAY
VARIES (20' MIN)
2-10' LANES
VARIES (20' MIN)
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
VARIES 44.4'-38'
℄ PROP.
VARIES-300'-290' RIGHT-OF-WAY
VARIES 150'-142.8'
VARIES 149.9'-146.3'
PROP. R.O.W.
VARIES 74.2'-69'
10' SHLDR
2-12' LANES
10' SHLDR
60'
8' SHLDR
2-12' LANES
10' SHLDR
VARIES 81.7'-76.2'
PROP. R.O.W.
T-501
T-501
PROPOSED BRIDGE SECTION
SCALE: 1"=20'
BRIDGE SECTION F-F
STA 182+00 - STA 183+50
℄ EXISTING
60' RIGHT-OF-WAY
20'
2-10' LANES
20'
EXIST. R.O.W.
EXIST. R.O.W.
℄ PROP.
EXISTING TYPICAL SECTION
220' RIGHT-OF-WAY
110'
110'
PROP. R.O.W.
10' MIN.
28' USUAL
10' SHLDR
2-12' LANES
76' PREFERRED MEDIAN VARIES
2-12' LANES
10' SHLDR
28' USUAL
10' MIN.
EXIST. R.O.W.
10' SHLDR
4' PAVED
4' GRASSY
NB PROP. PGL
SB PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH
PROPOSED DEPRESSED MEDIAN SECTION
SCALE: 1"=20'
SECTION G-G
STA 195+00 - STA 251+25
GARAGE & 2 STORY RESIDENCE
BARN
RESIDENCE
BARN
GARAGE
RESIDENCE
RESIDENCE
RESIDENCE
SEAWAY PIPELINE CO.
1-800-331-3381
UNDERGROUND PIPE
PROP. ROW
RELIANT EASEMENT
COTTONWOOD CREEK
E
E
F
F
S 47° 48' 06.27" E
827.84'
S 49° 18' 46.70" E
492.81
S 48° 38' 08.49" E
507.11
175+00
180+00
185+00
190+00
BARN
GARAGE
RES.
RES.
RES.
RES.
RES.
BARN
EXIST. ROW
RES.
RES.
1-24" CMP
20'
158'
RESIDENCE
427'
429'
RELIANT EASEMENT
40'
150'
200'
COTTONWOOD CREEK
250'
330'
320'
GARAGE
GARAGE
RESIDENCE
RESIDENCE
RES.
RELIANT ENERGY OVERHEAD CABLE
FLOODPLAIN MITIGATION BASIN NO. 2
TRACT AREA = 2.3 AC
BASIN VOLUME = 5.6 AC-FT
3:1 SIDE SLOPES
DEPTH = 4 FT
STA = 182+67.00
EL = 91.50'
ex = -0.16'
K = 350
L = 210.00'
(+)0.3000 %
(-)0.3000 %
PROP. NB PGL
EXIST. NATURAL GROUND @ NORTH ROW
EXIST. GROUND NB PGL
100 YEAR W.S. ELEV (84.29)
STA = 203+37.34
EL = 85.29'
(-)0.3000 %
(+)0.0000 %
PROP. NB PGL
100
90
80
70
175+00
180+00
185+00
190+00
195+00
200+00
205+00
210+00
215+00
220+00
PROP. SB PGL
EXIST. GROUND SB PGL
STA = 182+67.00
EL = 91.50'
ex = -0.16'
K = 350
L = 210.00'
(+)0.3000 %
(-)0.3000 %
EXIST. NATURAL GROUND @ SOUTH ROW
100 YEAR W.S. ELEV (84.29)
STA = 203+37.34
EL = 85.29'
(-)0.3000 %
(+)0.0000 %
PROP. SB PGL
100
90
80
70
175+00
180+00
185+00
190+00
195+00
200+00
205+00
210+00
215+00
220+00


CONSTRUCTION SEQUENCE FOR SECTION H-H

PHASE I
SCALE: 1"=20'

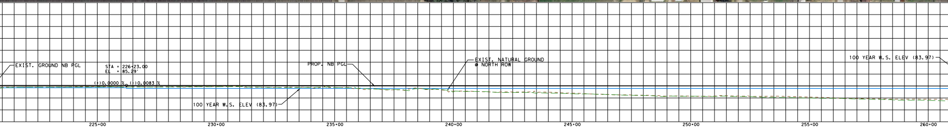
PHASE II
SCALE: 1"=20'

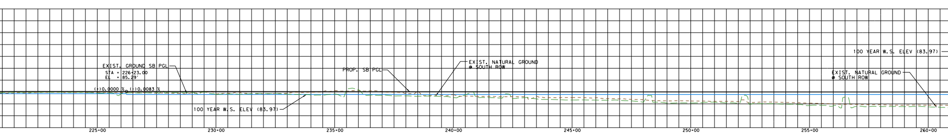
PROPOSED FLUSH MEDIAN SECTION
SCALE: 1"=20'
SECTION H-H
STA 251+25 - END

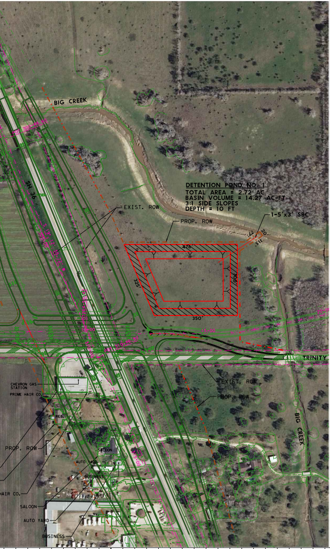
EXISTING TYPICAL SECTION

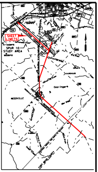
SOUTHWESTERN BELL CO.
BURIED FIBER OPTIC CABLE
1-800-669-8344

℄ PROP.
℄ EXISTING
PROP. R.O.W.
EXIST. R.O.W.
60' EXIST. RIGHT-OF-WAY
167.50' WORK ZONE
12.5'
2-10'
LANES
VARIES
(20' MIN)
PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
86.5'
10'
2-12'
LANES
14'
51.5' WORK ZONE
60' RIGHT-OF-WAY
20'
220' RIGHT-OF-WAY (TAKING LEFT)
17.5'
110'
MEDIAN
51.5'
PROPOSED DITCH
GARAGE
RESIDENCE
BARN
RES.
G
H
PROP. ROW
EXIST. ROW
℄ PROP. SPUR 10
FENSKE RD
HORSESHOE
SADDLE
CHEVRON GAS STATION
PRIME
225+00
230+00
235+00
240+00
245+00
250+00
255+00
S 48° 03' 58.59" E
5,303.04'
353
1490
SPUR 10
SH 36
177
DHV






BIG CREEK
SH 36
DETENTION POND NO. 1
TOTAL AREA = 2.72 AC
BASIN VOLUME = 14.27 AC-FT
3:1 SIDE SLOPES
DEPTH = 10 FT
EXIST. ROW
PROP. ROW
1-5'x3' SBC
20'
476'
325'
300'
350'
TRINITY RD
CHEVRON GAS STATION
PRIME HAIR CO.
RES.
PROP. ROW
SALOON
AUTO MAG
BUSINESS
HAIR CO.
SALOON
AUTO YARD
BUSINESS
EXIST. ROW
PROP. ROW
BIG CREEK


SHEET LIMITS
SPUR 10 STUDY AREA
NEEDVILLE
FORT BEND COUNTY

VICINITY MAP
N.T.S.

RURAL ARTERIAL DESIGN
SPEED IS 70 MPH

TRINITY RD. DESIGN
SPEED IS 40 MPH

SCHEMATIC LAYOUT
FORT BEND COUNTY
SPUR 10
Texas Department of Transportation
FROM: US 59
TO: SH 36
HOUSTON DISTRICT
DATE: - -
ORIGINAL APPROVED: - -
REVISED: - -
REVISION(S) APPROVED: - -

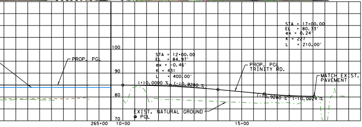
HIGHWAY: SPUR 10
DESCRIPTION:
FROM: US 59
TO: SH 36
CSJ NO.: 0187-05-048, ETC.
FILE NO.:
DATE:
REVISION DATE:
APPROVAL DATE:

SCALE: 0 100 200 300 400

LEGEND

PLAN LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES	━	5	BLACK	0
FRONTAGE ROADS AND RAMPS	—	1	BLUE	1
TURNAROUNDS	—	1	BLUE	1
EXISTING RDWY TO BE REMOVED	▰ ▰	0	BLACK	0
EXISTING RDWY TO REMAIN	—	2	GREEN	2
EMBANKMENT	—^—^—	3	RED	3
CONTROL OF ACCESS	—‖—	3	RED	3
PROP ROW	— · —	5	BLACK	0
EXISTING ROW	— —	0	BLACK	0
ACCESS ROAD	········	1	BLUE	1
PLANIMETRIC	♤	2	GREEN	2
TRAFFIC COUNT YEAR (2021) DHV	▬	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	—	4	ORANGE	6
DEPRESSED	—⋏—⋏—	3	RED	3
FUTURE	- - -	1	BLUE	1
RETAINING WALL	━	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	▬	7	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES	▬	9	BROWN	7
TEMPORARY CONNECTIONS	▬	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	—	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	▬	10	PURPLE	203

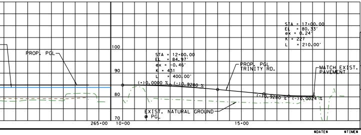


PROFILE LEGEND

PROP. PGL	━
EXIST. PGL	- - -
EXISTING GROUND	— —
EXISTING R.O.W. LT	— —
EXISTING R.O.W. RT	— —
100 YEAR WATER SURFACE ELEVATION	—

UTILITY LEGEND

EXISTING TELEPHONE COPPER CABLE	— — ⊕— — — — ⊕— —
EXISTING PVC CONTAINING TELEPHONE LINES (UNLESS NOTED OTHERWISE)	— — t— — — — t— —
EXISTING WATERLINE	— — •— — — — •— —
EXISTING GAS UTILITY OR GAS PIPELINE	— — GAS— — — — GAS— ·
EXISTING TELEPHONE PULL BOX	■
EXISTING TELEPHONE MANHOLE	●
EXISTING TELEPHONE EQUIPMENT ROOM OR SHELTER	▼
PRIVATE WATER WELL	⊙W
EXISTING CASING	▬
PROPOSED CASING	▬
EASEMENT	— — — — — ·



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Texas Department of Transportation

BROWN & GAY ENGINEERS, INC.
CIVIL ENGINEERS & SURVEYORS
HOUSTON, TEXAS

SPUR 10

SCHEMATIC LAYOUT