

FIGURE 1

LOCATION MAP

HCFC D PROJECT NO.: E500-21-00-E002
USACE PROJECT NO.: SWG-2017-00335

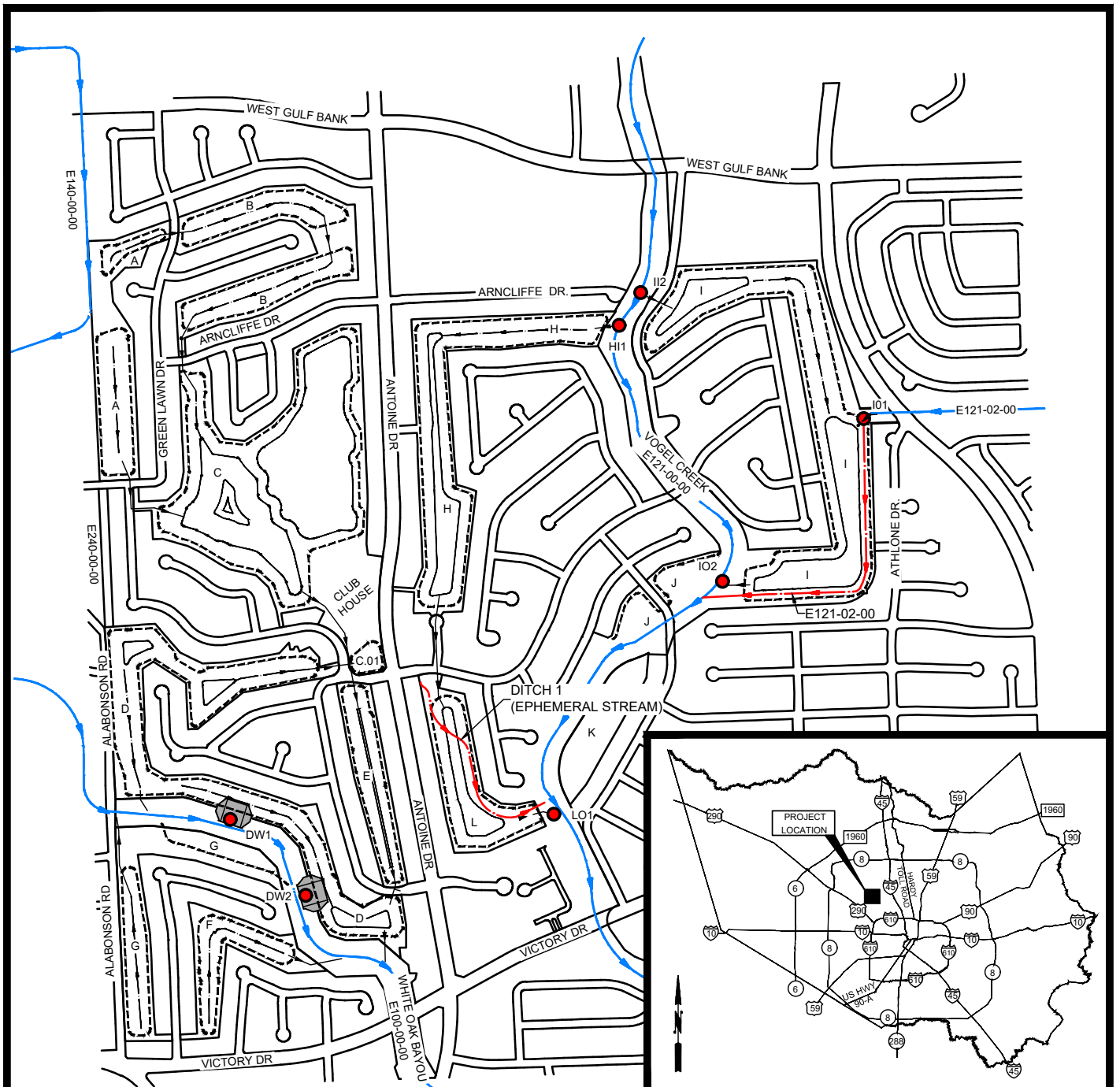


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- ▶ IMPACTED STREAMS
- ▶ EXISTING STREAMS
- PROPOSED OUTFALL AND/OR INFLOW STRUCTURES

FIGURE 2

OVERVIEW MAP

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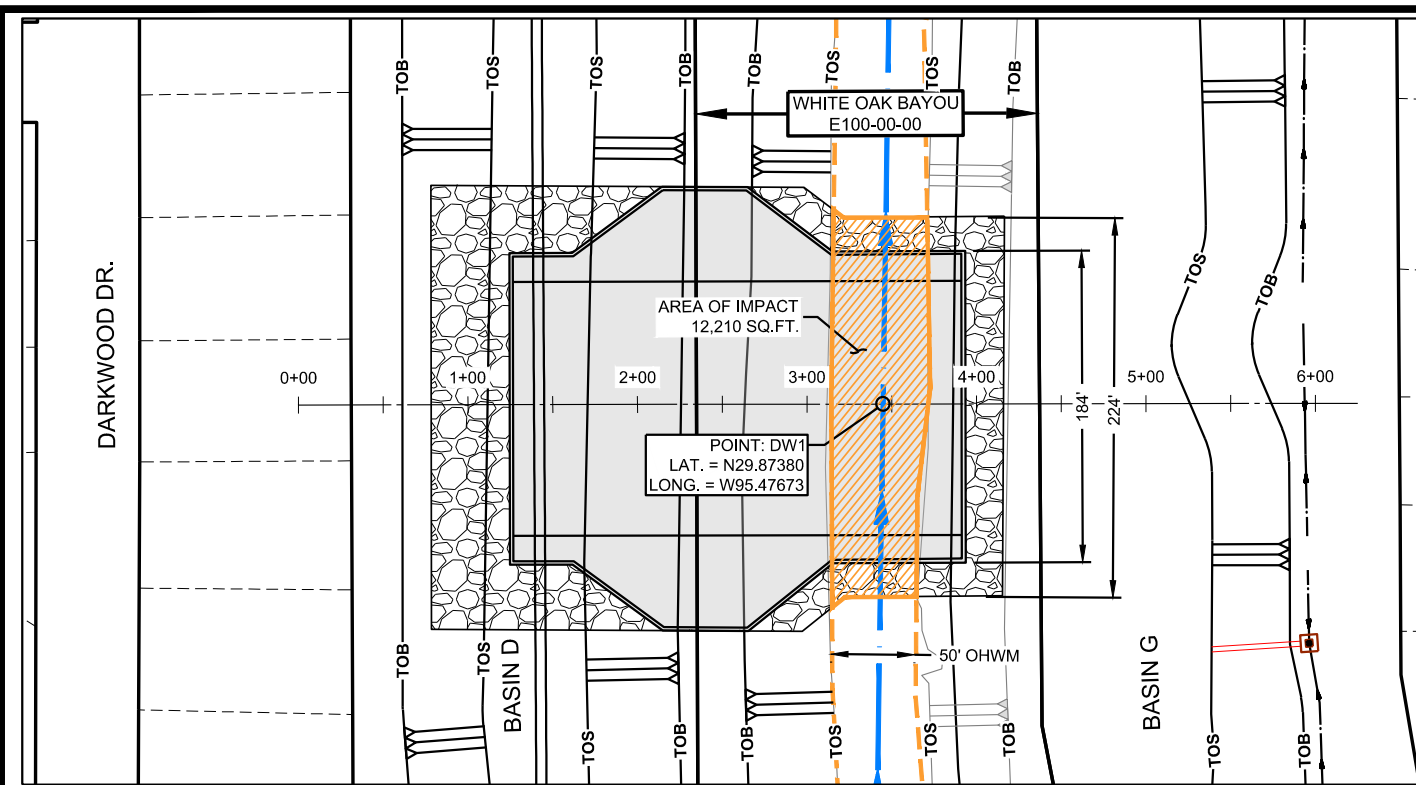


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- LEGEND**
- ROW = RIGHT-OF-WAY
 - OHWM = ORDINARY HIGH WATER MARK
 - TOB = TOP OF BANK
 - TOS = TOE OF SLOPE
 - RESIDENTIAL LOTS
 - - - EXISTING GRADE
 - > STREAM CENTER LINE
 - - - OHWM LIMITS
 - ▨ FILL AREA UNDER OHWM
 - ▩ PROP. BURIED 18" RIPRAP
 - PROP. 5" CONCRETE

| Basin D Inflow Structure North | |
|--------------------------------|----------------------|
| Fill Volumes | |
| Material | Volume [cubic yards] |
| Concrete | 158 |
| Concrete Rip-Rap | 151 |
| Total Volume | 319 |

BASIN D INFLOW STRUCTURE (N)

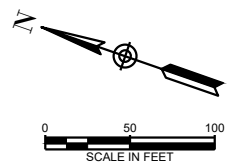
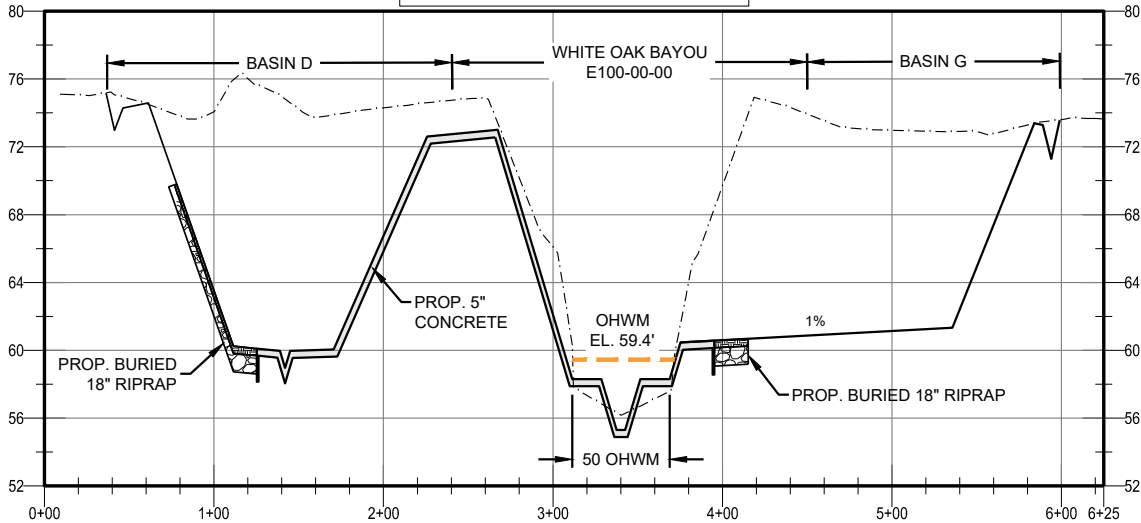


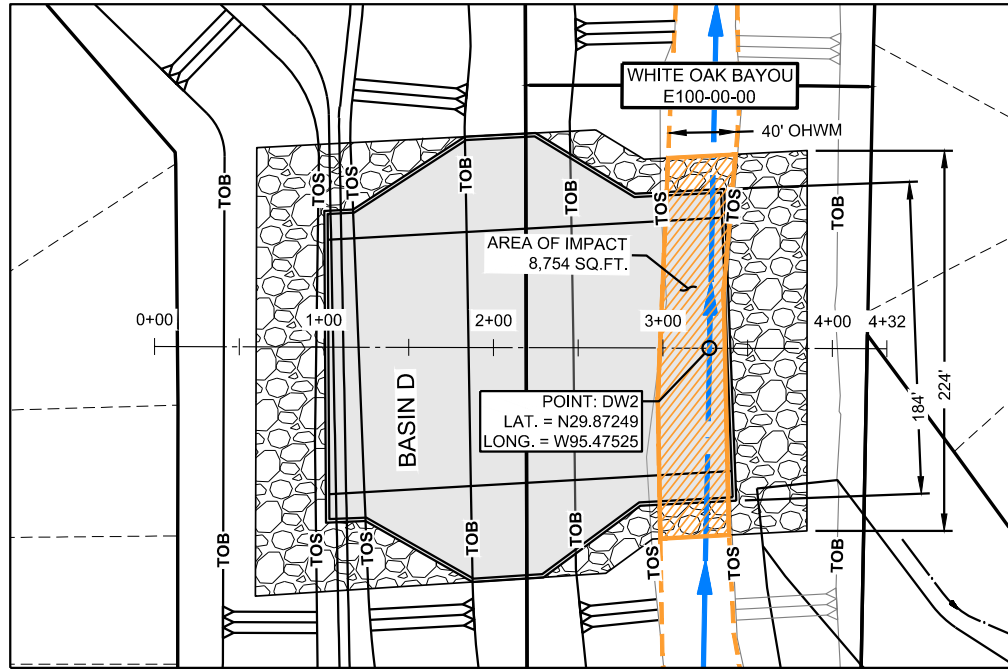
FIGURE 3
DW1 - BASIN D
(NORTH) INFLOW STRUCTURE
 PROPOSED CONDITIONS

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- TOB = TOP OF BANK
- TOS = TOE OF SLOPE
- RESIDENTIAL LOTS
- - - EXISTING GRADE
- > STREAM CENTER LINE
- - - OHWM LIMITS
- ▨ FILL AREA UNDER OHWM
- ▨ PROP. BURIED 18" RIPRAP
- ▨ PROP. 5" CONCRETE

| Basin D Inflow Structure South | |
|--------------------------------|----------------------|
| Fill Volumes | |
| Material | Volume (cubic yards) |
| Clean Earth | 0 |
| Concrete | 111 |
| Concrete Rip-Rap | 128 |
| Total Volume | 239 |

BASIN D INFLOW STRUCTURE (S)

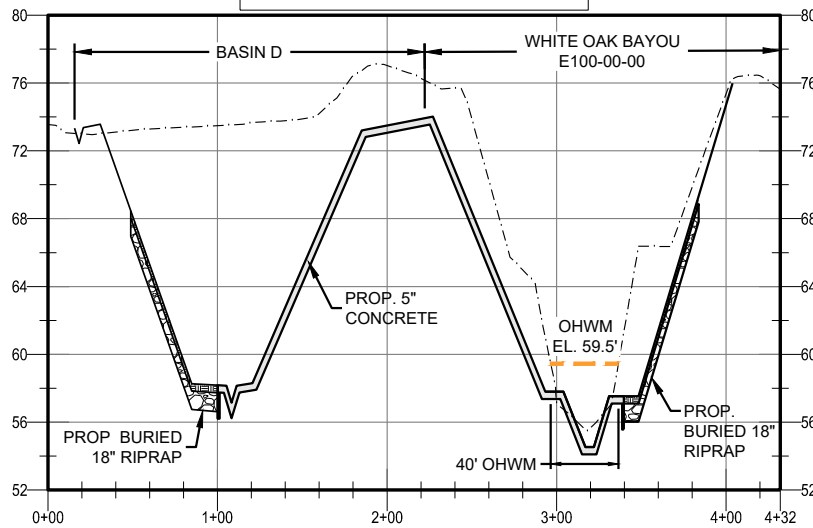


FIGURE 4
DW2 - BASIN D
(SOUTH) INFLOW STRUCTURE

PROPOSED CONDITIONS

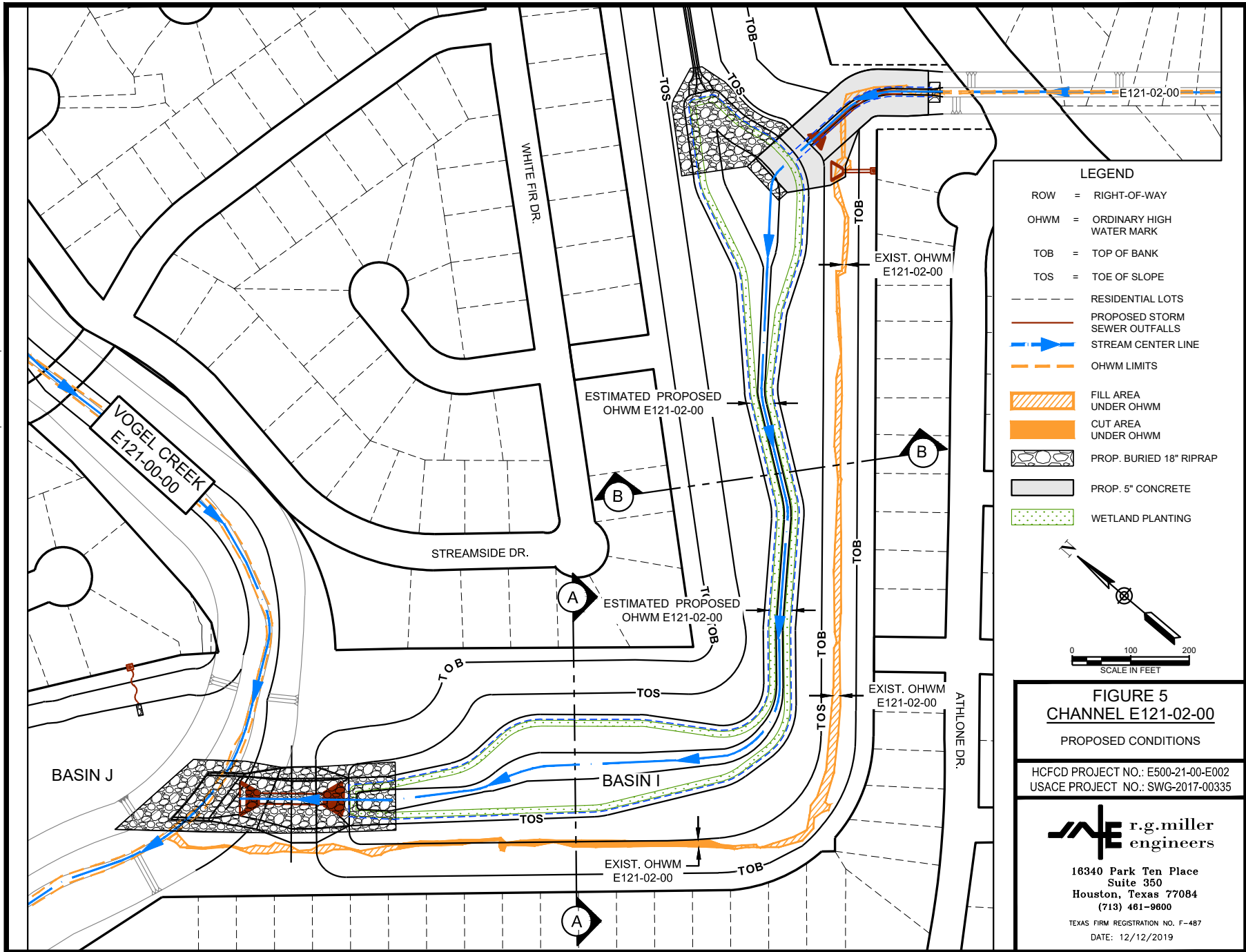
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LEGEND

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- TOB = TOP OF BANK
- TOS = TOE OF SLOPE
- - - RESIDENTIAL LOTS
- PROPOSED STORM SEWER OUTFALLS
- STREAM CENTER LINE
- - - OHWM LIMITS
- ▨ FILL AREA UNDER OHWM
- ▨ CUT AREA UNDER OHWM
- ▨ PROP. BURIED 18" RIPRAP
- ▨ PROP. 5" CONCRETE
- ▨ WETLAND PLANTING

0 100 200
SCALE IN FEET

FIGURE 5
CHANNEL E121-02-00
PROPOSED CONDITIONS

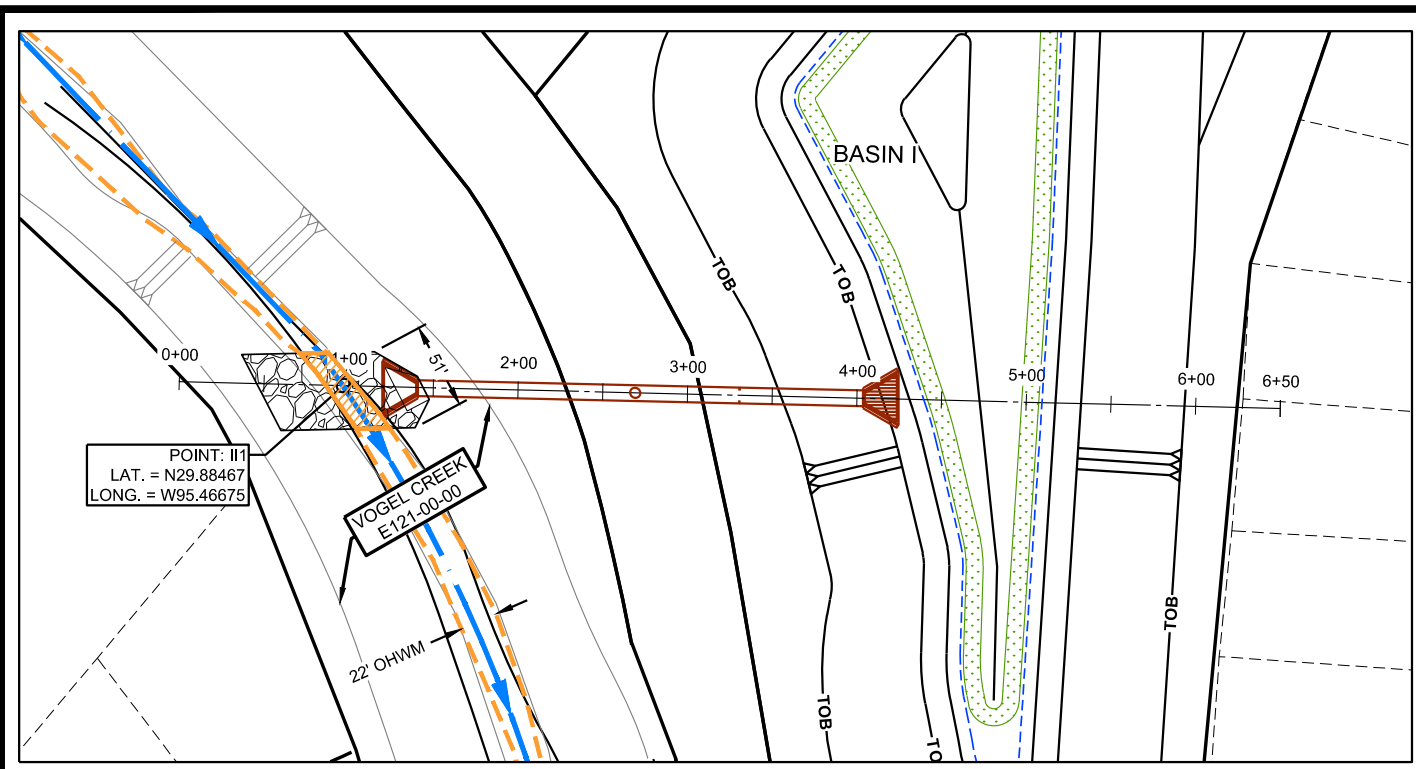
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 - OHWM = ORDINARY HIGH WATER MARK
 - TOB = TOP OF BANK
 - TOS = TOE OF SLOPE
 - - - RESIDENTIAL LOTS
 - - - EXISTING GRADE
 - - - PROPOSED STORM SEWER OUTFALLS
 - STREAM CENTER LINE
 - - - OHWM LIMITS
 - ▨ FILL AREA UNDER OHWM
 - ▨ PROP. BURIED 18" RIPRAP
 - ▨ PROP. 5" CONCRETE
 - ▨ WETLAND PLANTING

| Basin I Inflow Structure North | |
|--------------------------------|----------------------|
| Fill Volumes | |
| Material | Volume (cubic yards) |
| Clear Dirt | 0 |
| Concrete | 0 |
| Concrete Rip-Rap | 59 |
| Total Volume | 59 |

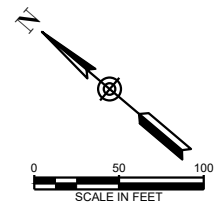
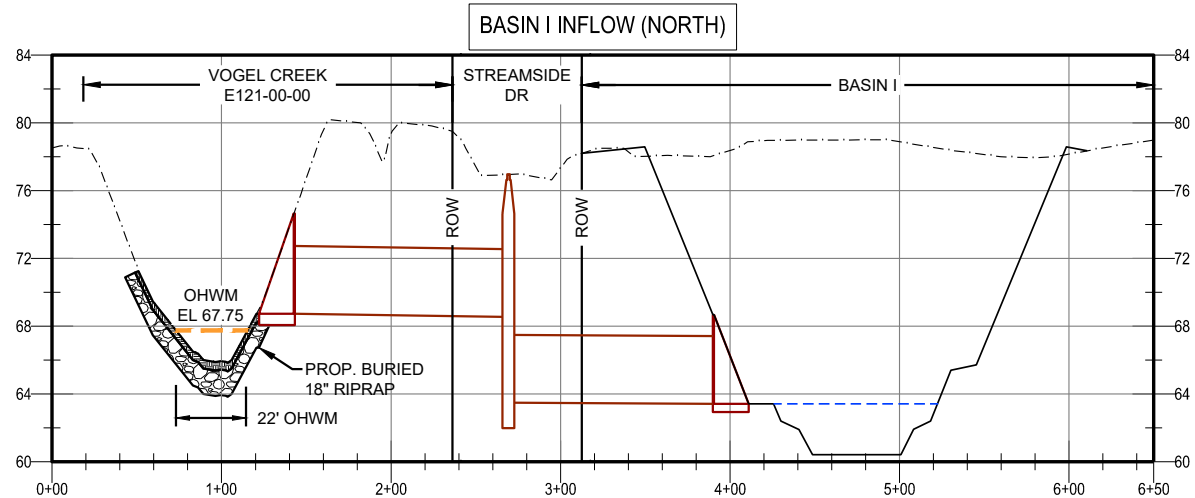



FIGURE 6
I11 - BASIN I
(NORTH - INFLOW STRUCTURE)

PROPOSED CONDITIONS

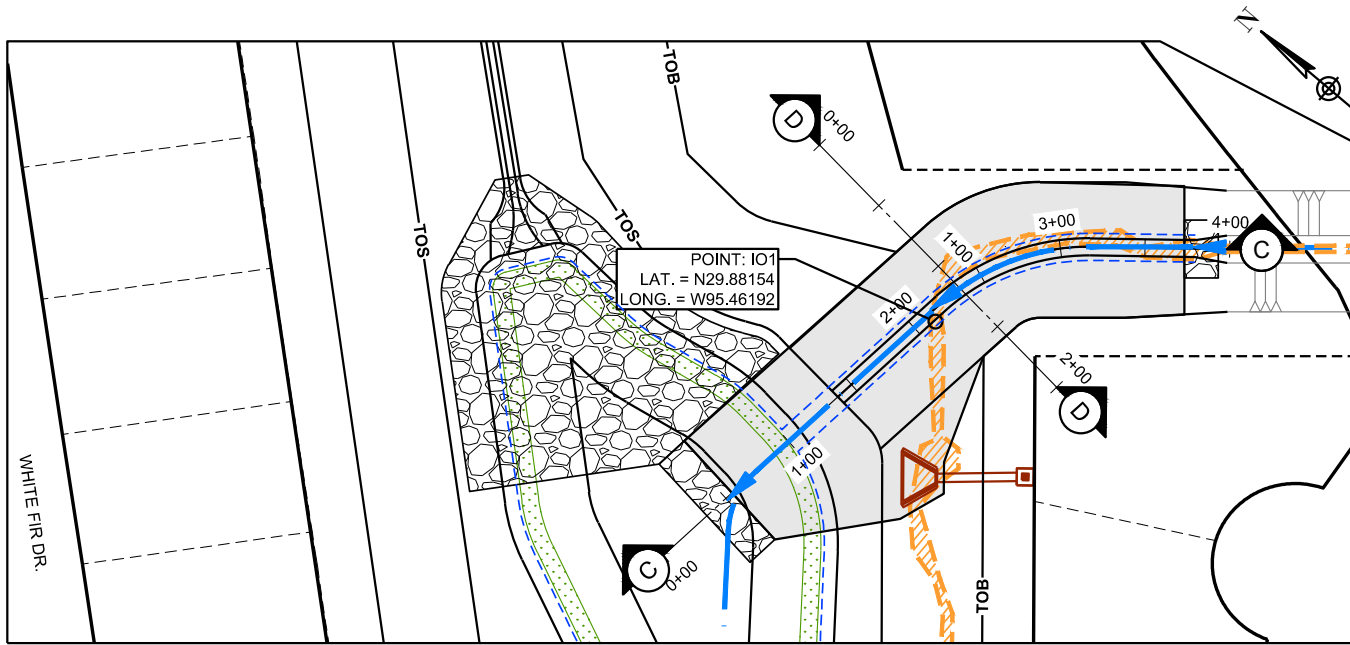
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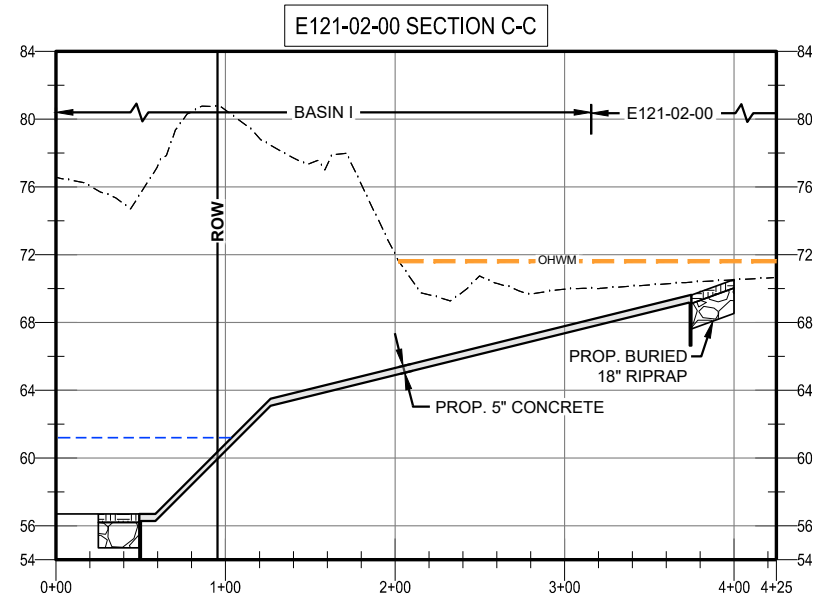
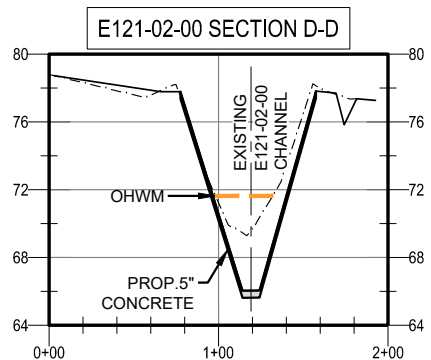
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 - OHWM = ORDINARY HIGH WATER MARK
 - TOB = TOP OF BANK
 - TOS = TOE OF SLOPE
 - - - RESIDENTIAL LOTS
 - - - EXISTING GRADE
 - - - PROPOSED STORM SEWER OUTFALLS
 - ▶— STREAM CENTER LINE
 - - - OHWM LIMITS
 - ▨ FILL AREA UNDER OHWM
 - ▩ PROP. BURIED 18" RIPRAP
 - ▭ PROP. 5" CONCRETE
 - ▤ WETLAND PLANTING



| Basin I (Including Outfall Structure 1) | |
|---|----------------------|
| Fill Volumes | |
| Material | Volume [cubic yards] |
| Clean Dir. | 343 |
| Concrete | 45 |
| Concrete Rip-Rap | 23 |
| Total Volume | 1003 |

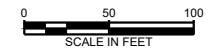



FIGURE 7
BASIN I AT E121-02-00

PROPOSED CONDITIONS

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LEGEND

- ROW = RIGHT-OF-WAY
- OHWM = ORDINARY HIGH WATER MARK
- TOB = TOP OF BANK
- TOS = TOE OF SLOPE
- - - RESIDENTIAL LOTS
- · - · - EXISTING GRADE
- - - PROPOSED STORM SEWER OUTFALLS
- STREAM CENTER LINE
- - - OHWM LIMITS
- [Hatched Box] FILL AREA UNDER OHWM
- [Solid Orange Box] CUT AREA UNDER OHWM
- [Riprap Pattern Box] PROP. BURIED 18" RIPRAP
- [Dotted Green Box] WETLAND PLANTING
- [Riprap Pattern Box] EXISTING RIPRAP

| Basin I Outfall Structure 2 | |
|-----------------------------|----------------------|
| Fill Volumes | |
| Material | Volume (cu/cy yards) |
| Clean Dirt | 0 |
| Concrete | 0 |
| Concrete Rip-Rap | 368 |
| Total Volume | 368 |

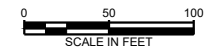
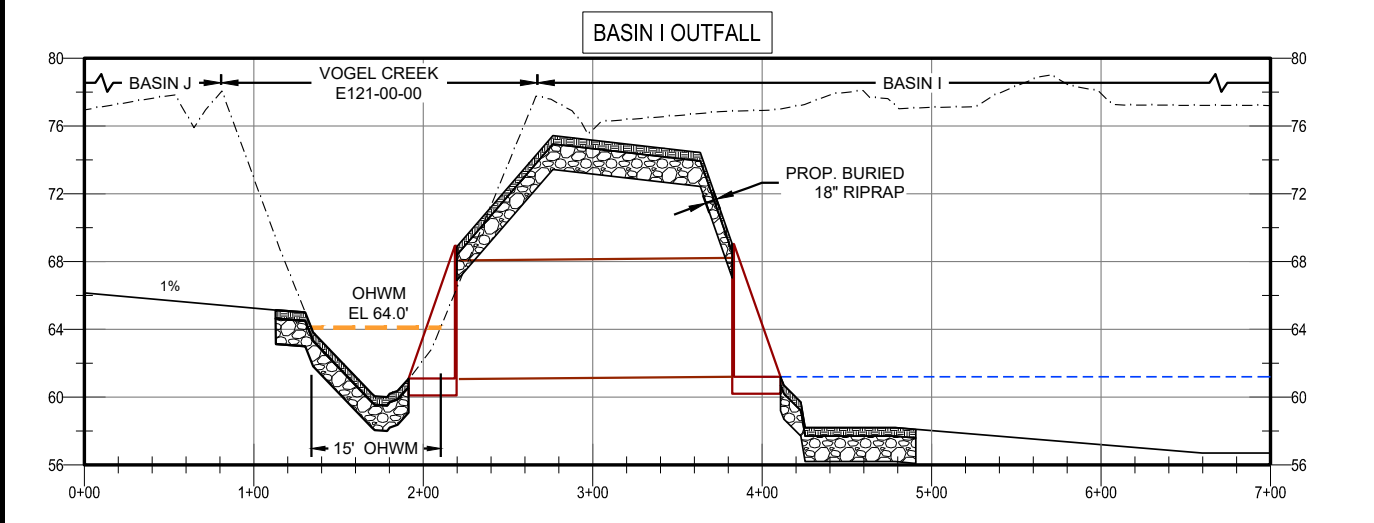


FIGURE 8
IO2 - BASIN I

PROPOSED CONDITIONS

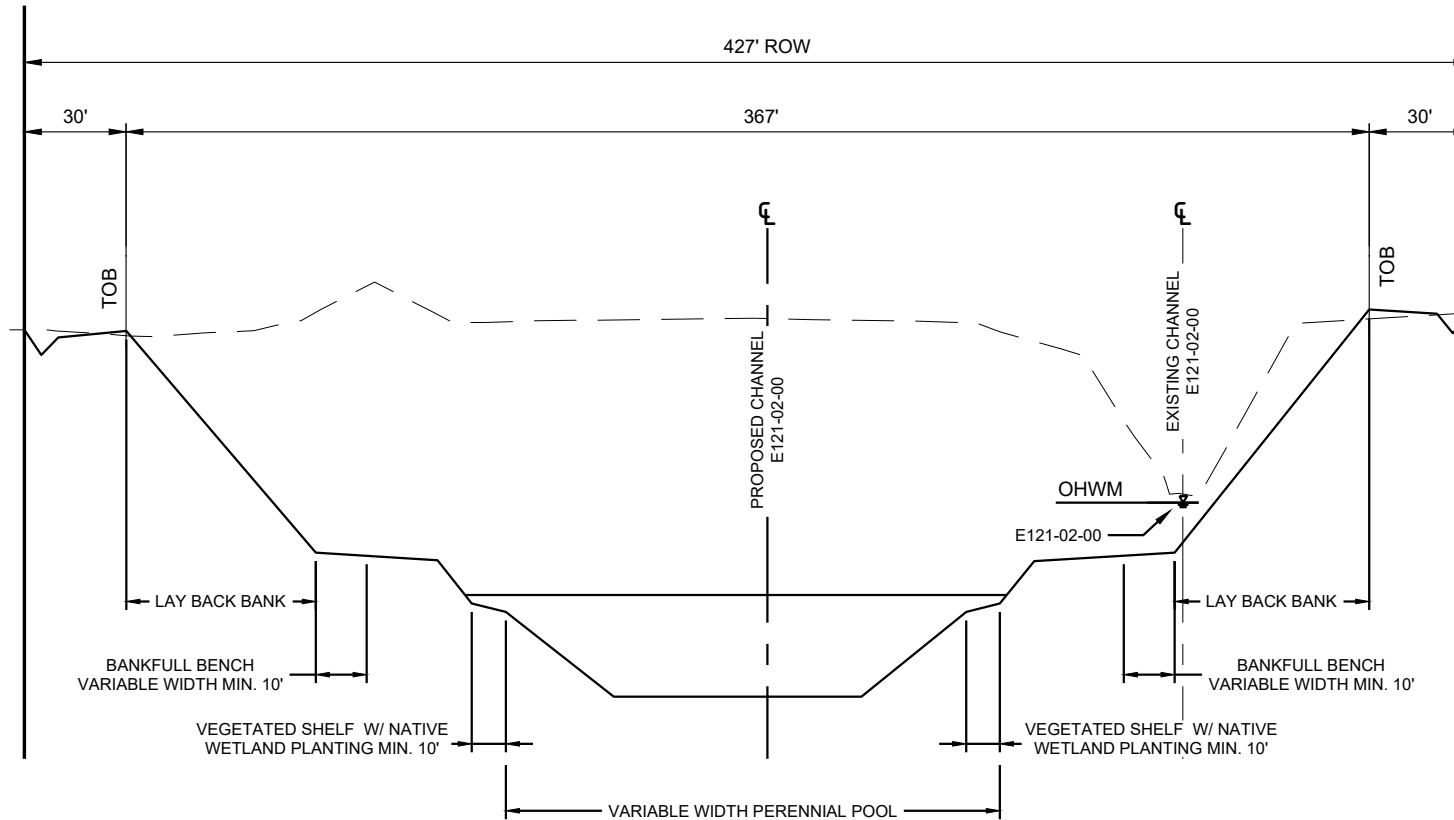
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BASIN I TYPICAL SECTION A-A
N.T.S.

- LEGEND**
- TOB = TOP OF BANK
 - OHWM = ORDINARY HIGH WATER MARK
 - EXISTING GROUND
 - PROPOSED GROUND

FIGURE 9
BASIN I

TYPICAL SECTIONS

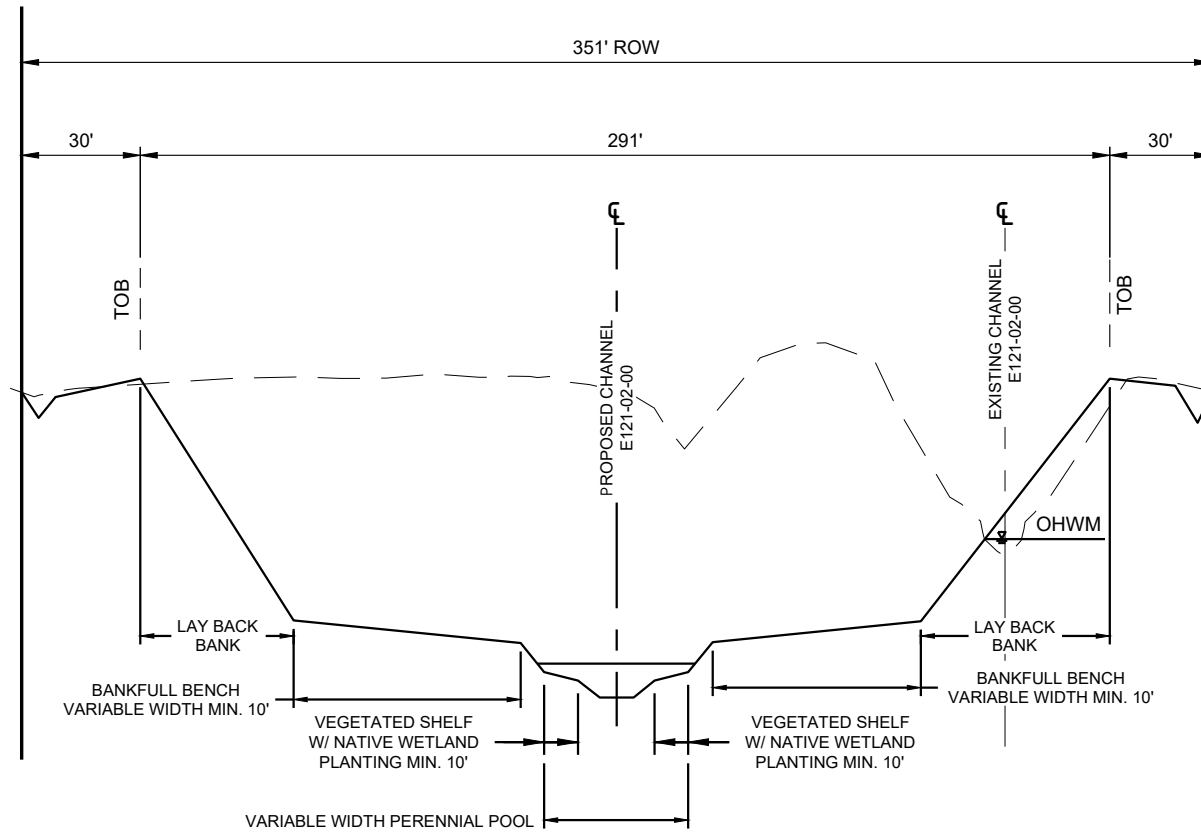
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- LEGEND**
- TOB = TOP OF BANK
 - OHWM = ORDINARY HIGH WATER MARK
 - --- EXISTING GROUND
 - PROPOSED GROUND

BASIN I TYPICAL SECTION B-B
N.T.S.

FIGURE 10
BASIN I
TYPICAL SECTIONS

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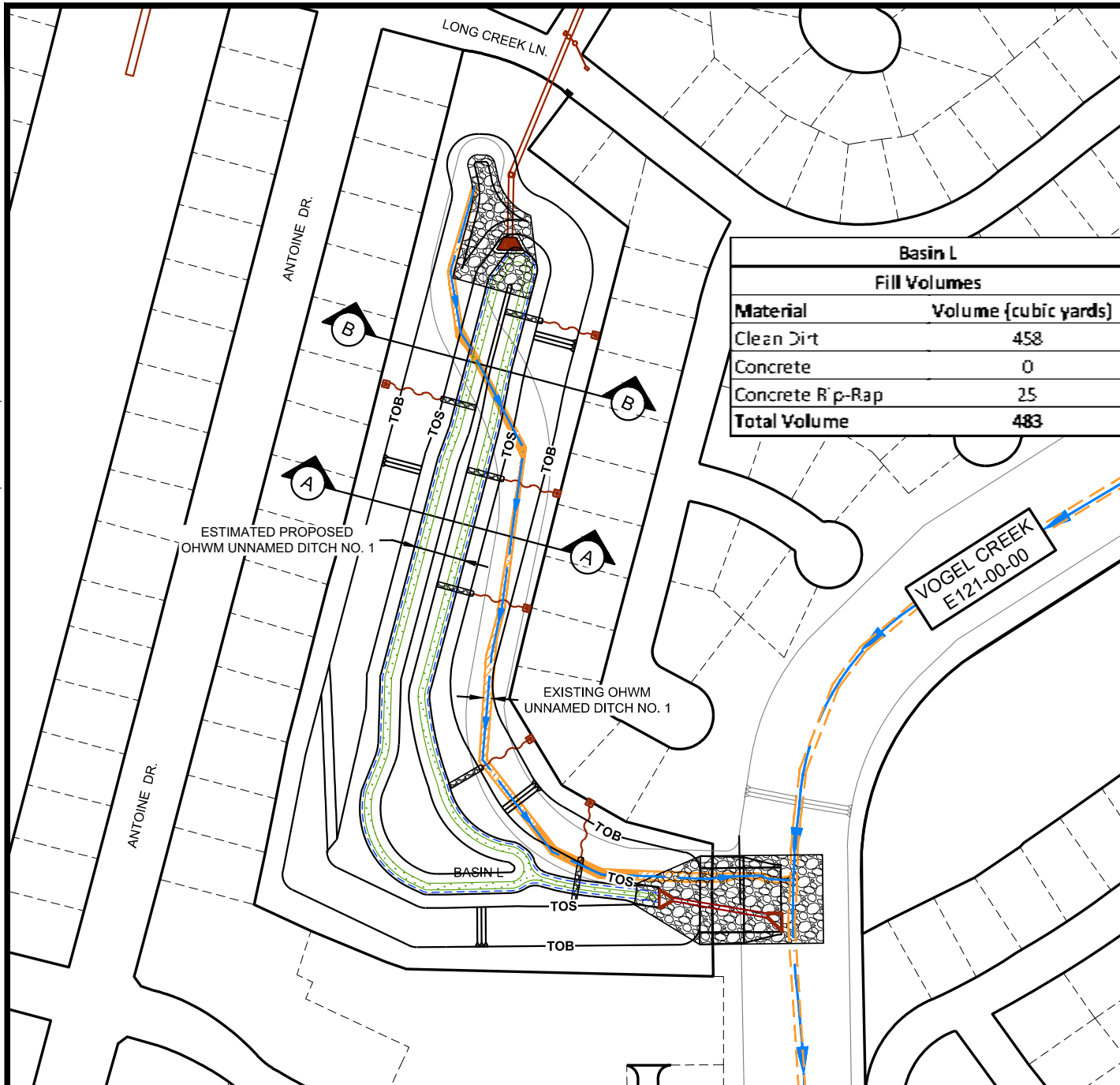
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| Basin L | |
|---------------------|----------------------|
| Fill Volumes | |
| Material | Volume (cubic yards) |
| Clean Dirt | 458 |
| Concrete | 0 |
| Concrete R' p-Rap | 25 |
| Total Volume | 483 |

LEGEND

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- TOS = TOE OF SLOPE
- RESIDENTIAL LOTS
- PROPOSED STORM SEWER OUTFALLS
- STREAM CENTER LINE
- OHWM LIMITS
- FILL AREA UNDER OHWM
- CUT AREA UNDER OHWM
- PROP. BURIED 18" RIPRAP
- WETLAND PLANTING
- EXISTING RIPRAP

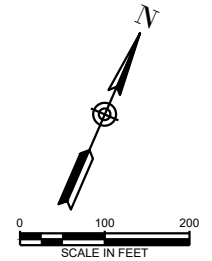
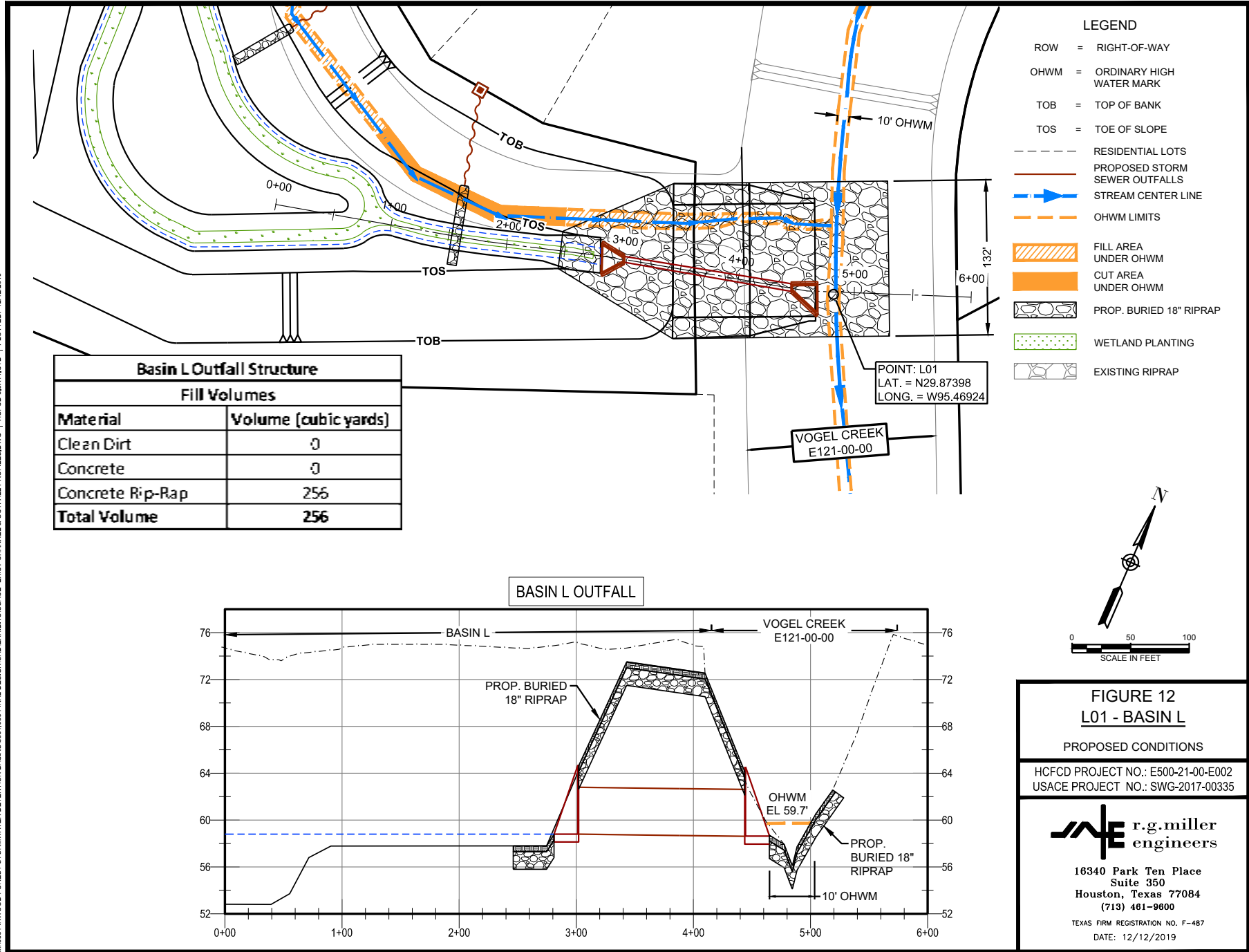


FIGURE 11
UNNAMED DITCH NO. 1

PROPOSED CONDITIONS

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FIGURE 12
L01 - BASIN L

PROPOSED CONDITIONS

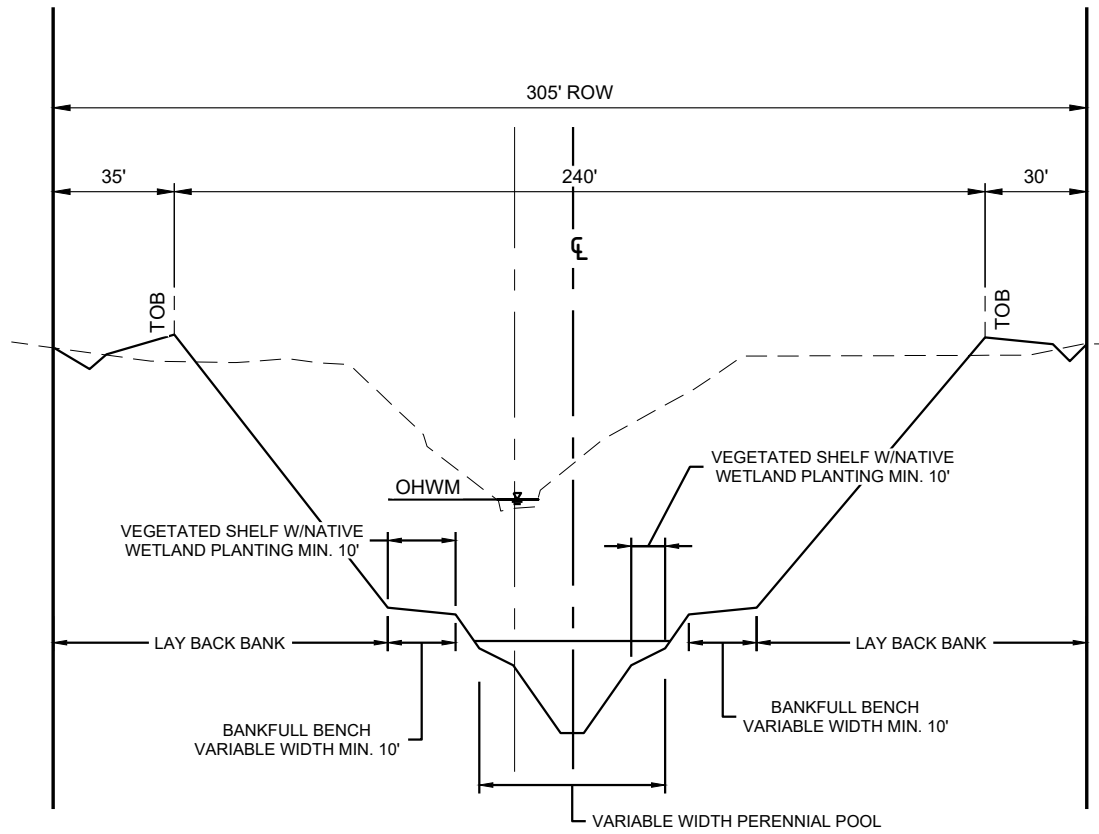
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BASIN L TYPICAL SECTION A-A
N.T.S.

- LEGEND**
- TOB = TOP OF BANK
 - OHWM = ORDINARY HIGH WATER MARK
 - - - EXISTING GROUND
 - PROPOSED GROUND

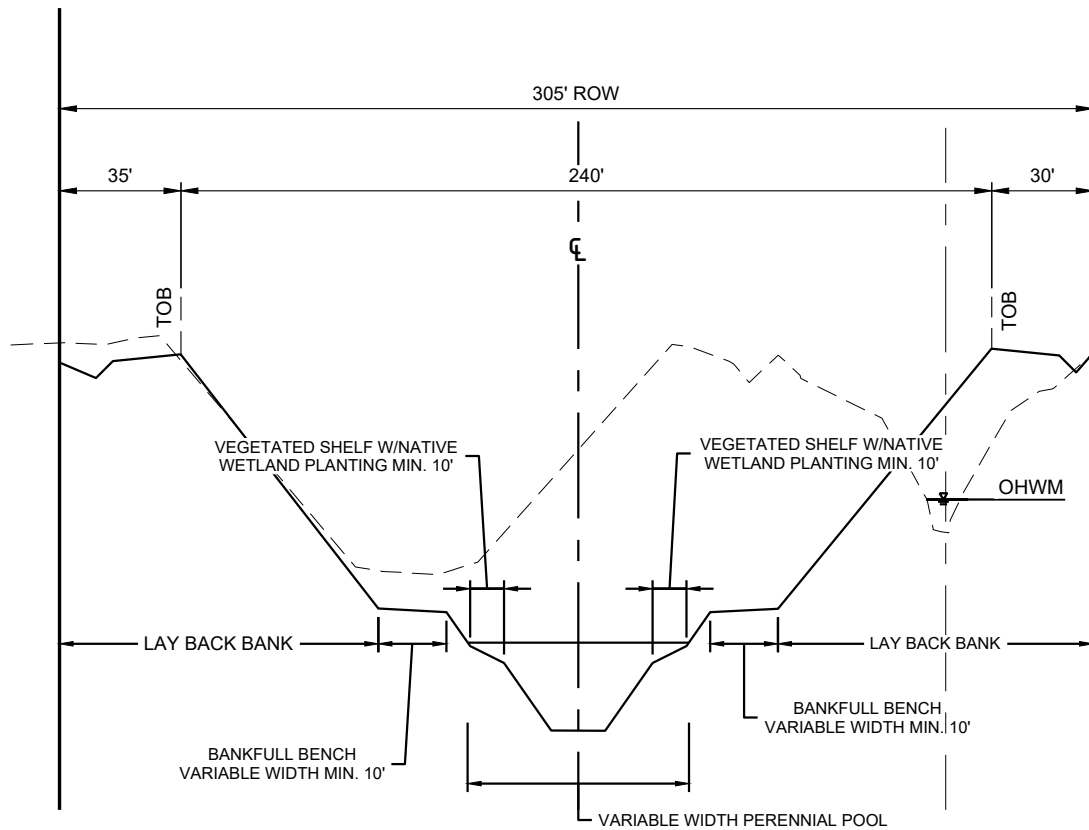
FIGURE 13
BASIN L
TYPICAL SECTIONS

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- LEGEND**
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 - OHWM = ORDINARY HIGH WATER MARK
 - - - - EXISTING GROUND
 - PROPOSED GROUND

BASIN L TYPICAL SECTION B-B
N.T.S.

FIGURE 14
BASIN L
TYPICAL SECTIONS

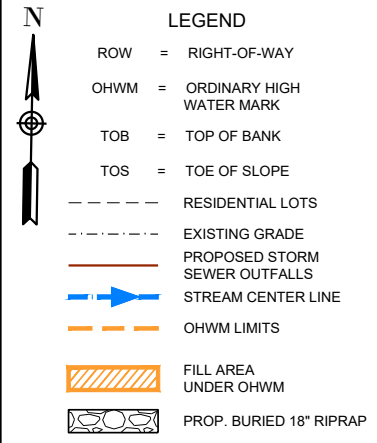
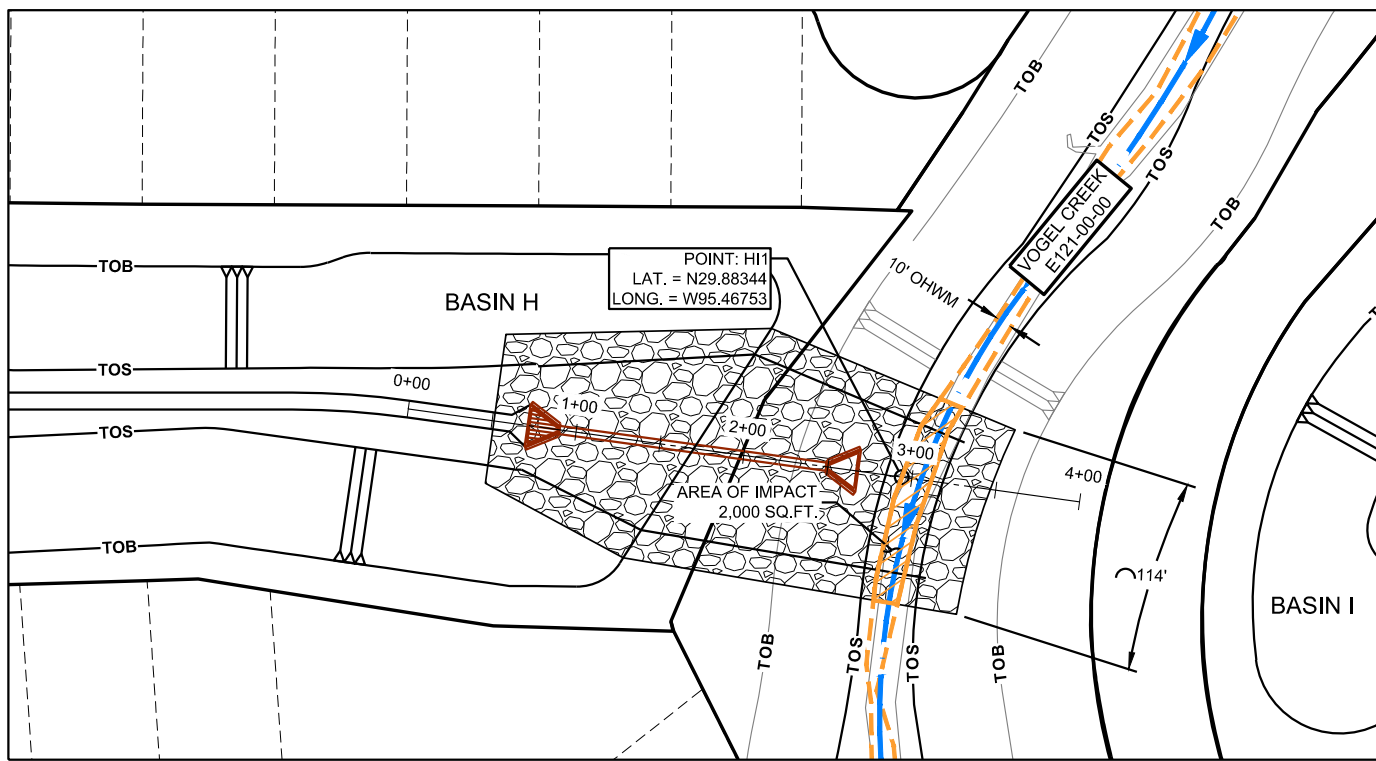
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| Basin H Inflow Structure | |
|--------------------------|----------------------|
| Fill Volumes | |
| Material | Volume (cubic yards) |
| Clear Dirt | 3 |
| Concrete | 3 |
| Concrete Riprap | 51 |
| Total Volume | 57 |

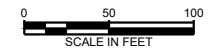
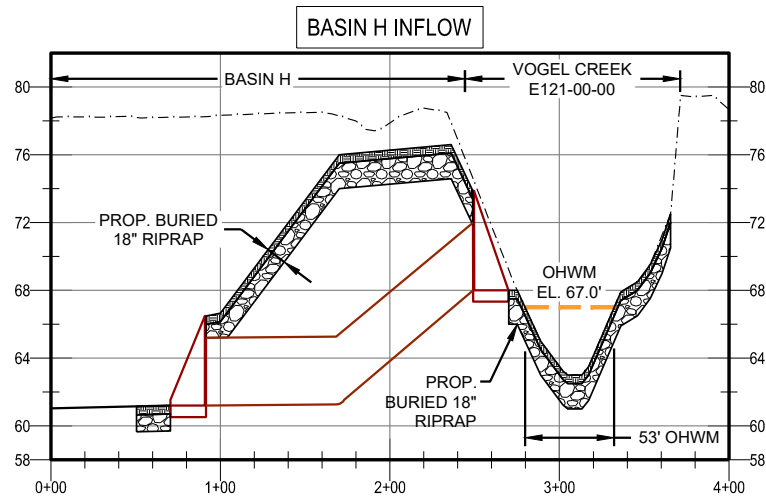


FIGURE 15
H11 - BASIN H
(INFLOW)

PROPOSED CONDITIONS

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