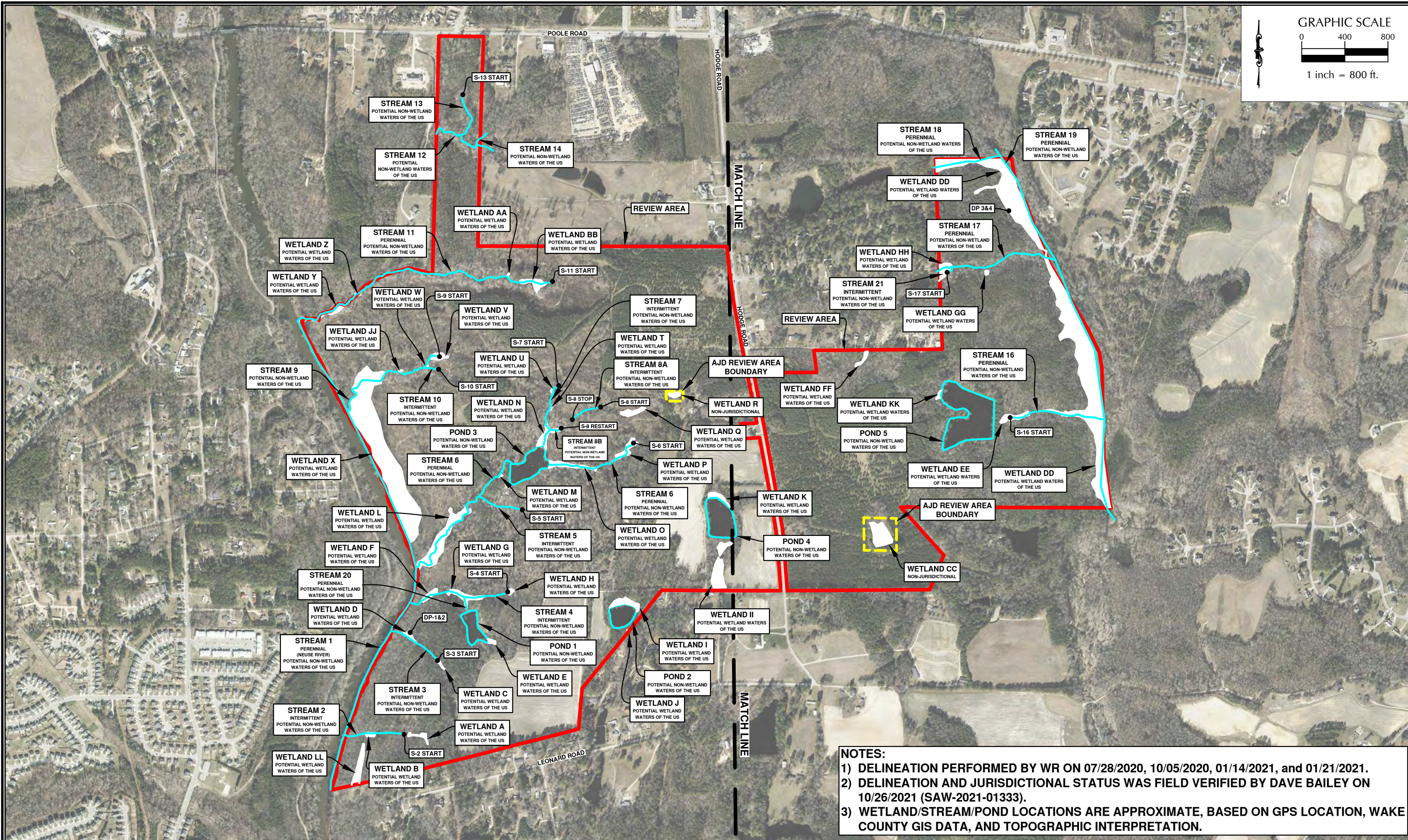






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- NOTES:**
- 1) DELINEATION PERFORMED BY WR ON 07/28/2020, 10/05/2020, 01/14/2021, and 01/21/2021.
  - 2) DELINEATION AND JURISDICTIONAL STATUS WAS FIELD VERIFIED BY DAVE BAILEY ON 10/26/2021 (SAW-2021-01333).
  - 3) WETLAND/STREAM/POND LOCATIONS ARE APPROXIMATE, BASED ON GPS LOCATION, WAKE COUNTY GIS DATA, AND TOPOGRAPHIC INTERPRETATION.

Designer	WR	Scale	1" = 800'
Drawn By	AR	Date	11/08/2021
Checked By	AR	Job No.	02200458.00

HODGE ROAD ASSEMBLAGE

WAKE COUNTY

NORTH CAROLINA

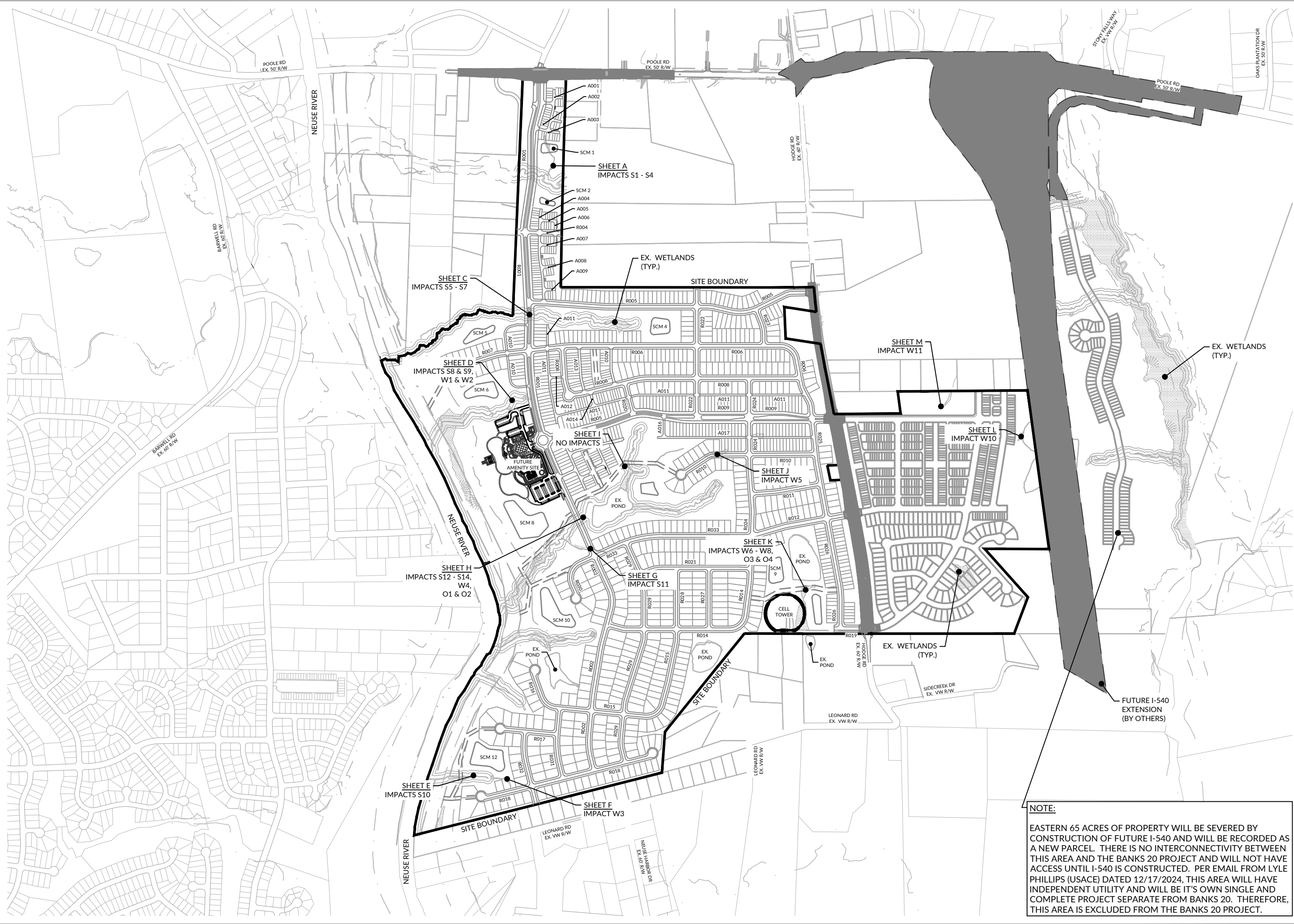
APPROVED WETLAND DELINEATION EXHIBIT

 **WithersRavenel**  
Engineers | Planners | Surveyors

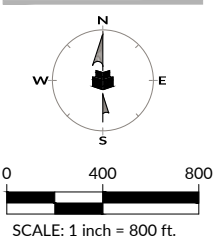
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**3**



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**NOTE:**  
EASTERN 65 ACRES OF PROPERTY WILL BE SEVERED BY CONSTRUCTION OF FUTURE I-540 AND WILL BE RECORDED AS A NEW PARCEL. THERE IS NO INTERCONNECTIVITY BETWEEN THIS AREA AND THE BANKS 20 PROJECT AND WILL NOT HAVE ACCESS UNTIL I-540 IS CONSTRUCTED. PER EMAIL FROM LYLE PHILLIPS (USACE) DATED 12/17/2024, THIS AREA WILL HAVE INDEPENDENT UTILITY AND WILL BE IT'S OWN SINGLE AND COMPLETE PROJECT SEPARATE FROM BANKS 20. THEREFORE, THIS AREA IS EXCLUDED FROM THE BANKS 20 PROJECT.



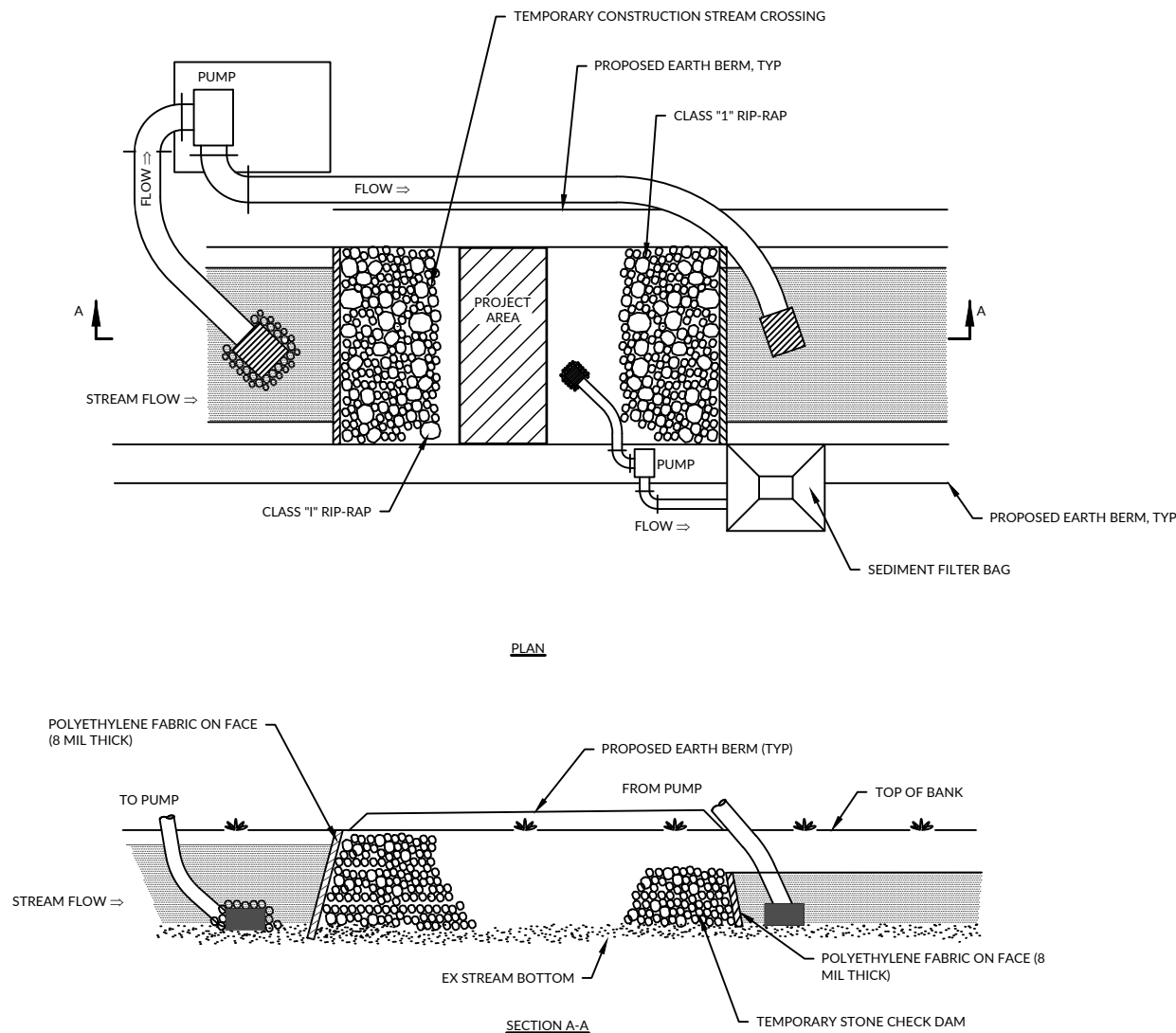
1.0

INDEX OF SHEETS	
NUMBER	TITLE
1.0	OVERALL STREAM & WETLAND IMPACTS
1.1	INDEX OF SHEETS
1.2	CULVERT INSTALLATION DETAIL
1.3	CULVERT INSTALLATION DETAIL
1.4	RIPRAP BASIN ENERGY DISSIPATER DETAIL
1.5	RISER OUTLET DETAIL
1.6	BOARDWALK MULTI-USE PATH BRIDGE TYPICAL DETAIL
1.7	STREAM & WETLAND IMPACTS SUMMARY TABLE
1.8	STREAM & WETLAND IMPACTS SUMMARY TABLE
A	STREAM & WETLANDS IMPACT MAPS
B	CULVERT A PROFILES
C	STREAM & WETLANDS IMPACT MAPS
D	STREAM & WETLANDS IMPACT MAPS
E	STREAM & WETLANDS IMPACT MAPS
F	STREAM & WETLANDS IMPACT MAPS
G	STREAM & WETLANDS IMPACT MAPS
H	STREAM & WETLANDS IMPACT MAPS
I	STREAM & WETLANDS IMPACT MAPS
J	STREAM & WETLANDS IMPACT MAPS
K	STREAM & WETLANDS IMPACT MAPS
L	STREAM & WETLANDS IMPACT MAPS
M	STREAM & WETLANDS IMPACT MAPS

2.0	OVERALL BUFFER IMPACTS
2.1	BUFFER IMPACTS SUMMARY TABLE
2.2	BUFFER IMPACTS SUMMARY TABLE
AA	BUFFER IMPACT MAPS
BB	BUFFER IMPACT MAPS
CC	BUFFER IMPACT MAPS
DD	BUFFER IMPACT MAPS
EE	BUFFER IMPACT MAPS
FF	BUFFER IMPACT MAPS
GG	BUFFER IMPACT MAPS
HH	BUFFER IMPACT MAPS
II	BUFFER IMPACT MAPS
JJ	BUFFER IMPACT MAPS
KK	BUFFER IMPACT MAPS
LL	BUFFER IMPACT MAPS



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## TEMPORARY STREAM BYPASS PUMP AROUND NOT TO SCALE

### TEMPORARY STREAM BYPASS

#### NOTES

1. WORK SHOULD BE SCHEDULED SO THAT CONSTRUCTION CAN BE COMPLETED DURING A TIME OF MINIMAL PRECIPITATION.
2. PUMP AND LINE SIZES TO BE DETERMINED BY THE CONTRACTOR.
3. ALL EROSION CONTROL DEVICES TO BE IN PLACE PRIOR TO CROSS DRAINAGE PIPE INSTALLATION.
4. WIDTH OF CONSTRUCTION EASEMENT SHALL BE MINIMIZED BASED UPON FIELD CONDITIONS. ANY DISTURBANCE EXCEEDING WHAT IS SHOWN ON PLANS MAY REQUIRE ADDITIONAL WATER QUALITY PERMITTING.

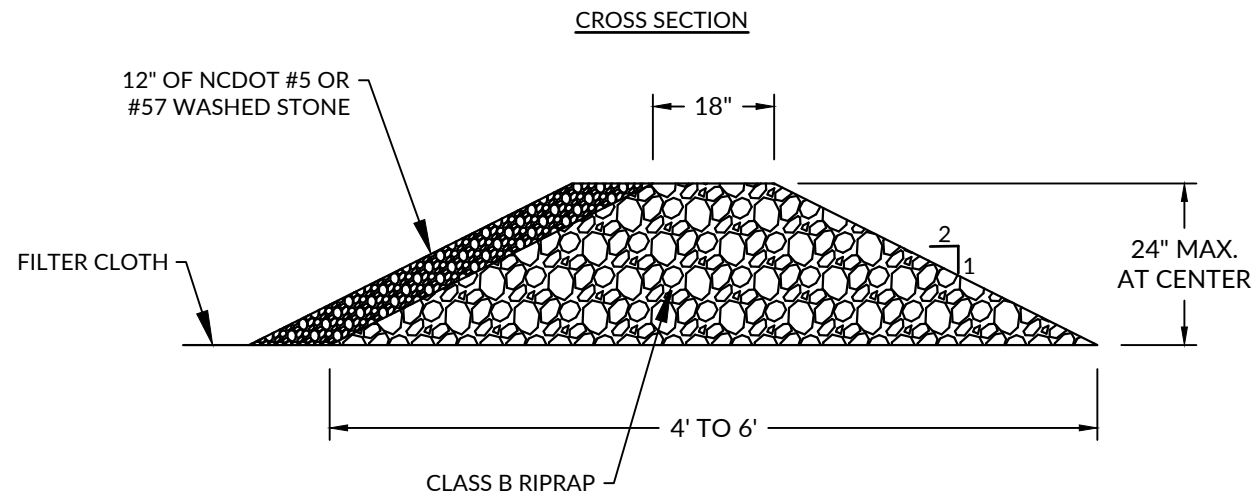
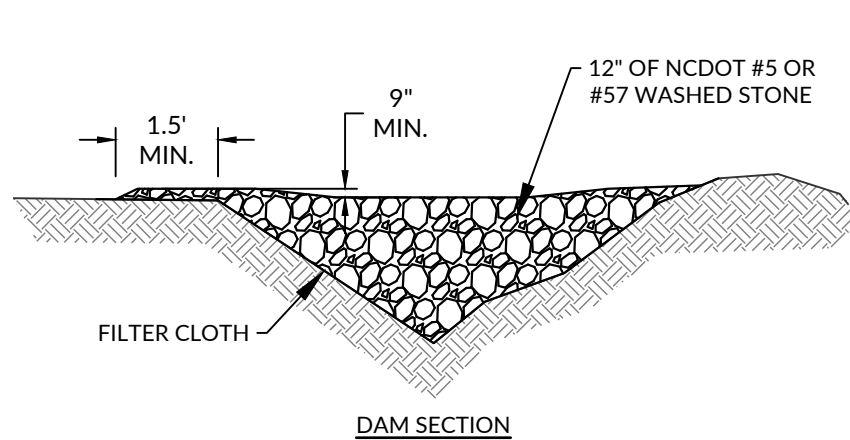
#### MAINTENANCE

1. INSPECT WEEKLY AND AFTER EACH RAINFALL EVENT THAT PRODUCES ½ INCH OR MORE OF RAIN.
2. REMOVE SEDIMENT AND WOODY DEBRIS PROMPTLY.
3. REMOVE COLLECTED SEDIMENT FROM STONE/RIP-RAP AREAS AS NECESSARY. TOP DRESS WITH 2", WASHED STONE AS NECESSARY.

#### CONSTRUCTION SEQUENCE

1. CONTRACTOR TO INSTALL ALL CROSS DRAINAGE PIPING DURING DRY WEATHER.
2. INSTALL TEMPORARY SILT FENCE BETWEEN EXISTING STREAM AND AREA OF DISTURBANCE FOR ALL CULVERTS.
3. BYPASS PLANS ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, OPERATION AND REMOVAL OF ALL EQUIPMENT AND TEMPORARY CONSTRUCTION TO INSURE "DRY" WORKING CONDITIONS.
4. INSTALL UPSTREAM AND DOWNSTREAM TEMPORARY STONE DAMS (CLASS "I" RIP-RAP) WITH WATERPROOF POLYETHYLENE FABRIC FACING (MINIMUM 8 MIL THICK). DOWNSTREAM TEMPORARY STONE DAM IS INTENDED TO FUNCTION AS A TEMPORARY STREAM CROSSING AND SHOULD HAVE A MINIMUM TOP WIDTH OF 10'.
5. INSTALL "CLEAN" WATER BYPASS PUMPS. SEE DETAILS THIS SHEET.
6. INSTALL WORK AREA DEWATERING PUMP AND SEDIMENT FILTER BAG AT TOP OF BANK. DEWATER CONSTRUCTION AREA BETWEEN STONE DAMS USING THE FILTER BAG.
7. CONSTRUCT CULVERT AND END TREATMENTS.
8. BEGIN BACKFILLING AROUND CROSS DRAINAGE PIPING.
9. REMOVE TEMPORARY SILT FENCE WHEN BACKFILL REACHES SILT FENCE.
10. CONCURRENTLY WITH STEP 10 REMOVE PUMPS, SEDIMENT BAGS, AND TEMPORARY STONE DAMS. (REMOVE POLYETHYLENE, REMOVE AND STOCKPILE RIP-RAP, TO THE LEVEL OF THE STREAM BOTTOM, FOR USE IN CONSTRUCTING RIP-RAP DISSIPATOR.
11. MAINTAIN ALL EROSION CONTROL DEVICES TO PREVENT SEDIMENT ENTERING THE CULVERT.
12. CONTRACTOR WILL BE RESPONSIBLE FOR ALL SUPPLIES REQUIRED FOR ANY PUMPING OF WATER FLOW UNTIL CULVERT IS CONSTRUCTED.





STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO KEEP WATER FROM CUTTING AROUND THE DAM.

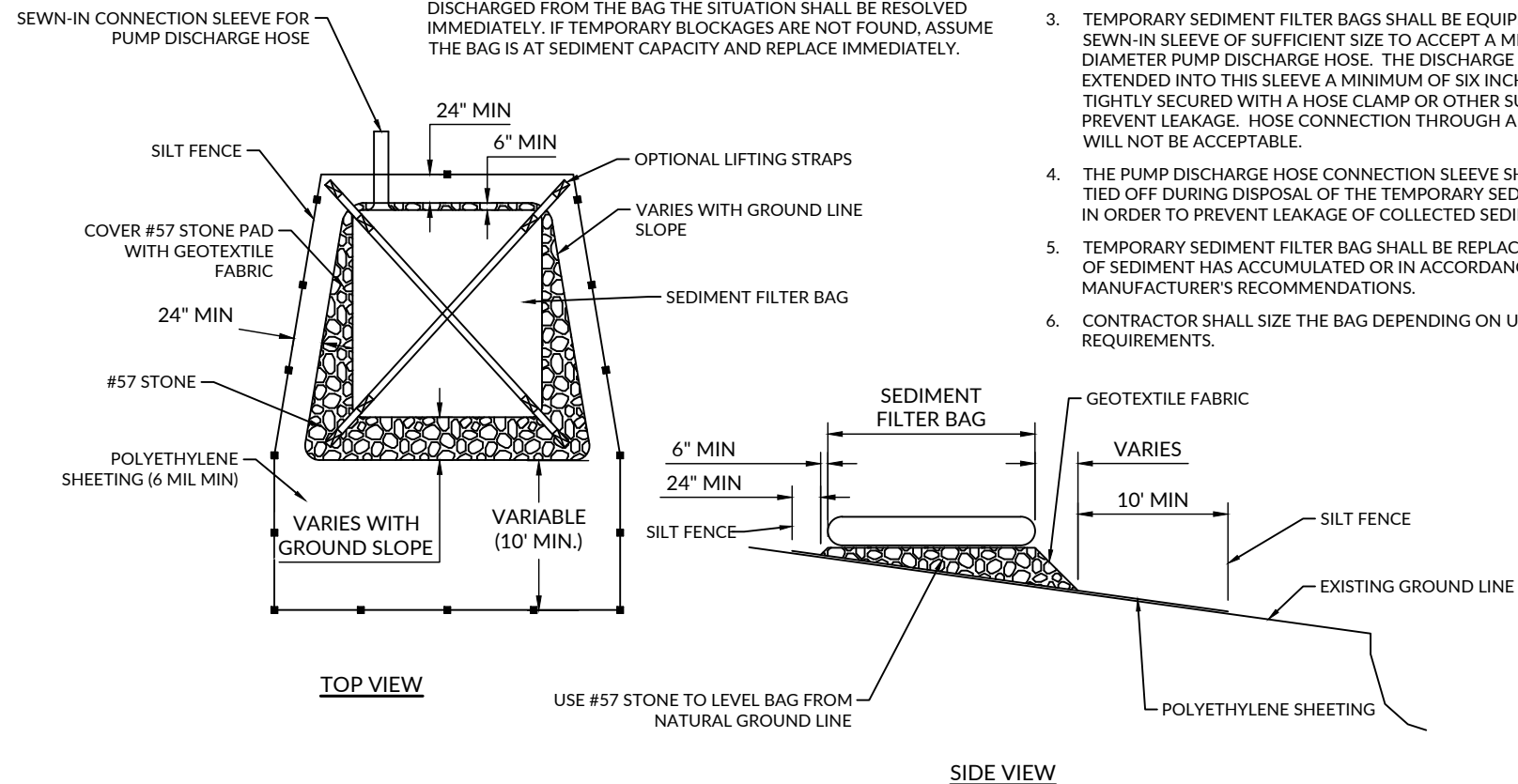
## TEMPORARY STONE CHECK DAM NOT TO SCALE

### MAINTENANCE NOTES:

1. INSPECT WEEKLY AND AFTER EACH RAINFALL EVENT PRODUCING  $\frac{1}{2}$  INCH OR MORE OF RAIN. ANY DAMAGE TO THE SEDIMENT FILTER BAG SHALL BE REPAIRED IMMEDIATELY.
2. TEMPORARY SEDIMENT FILTER BAG SHALL BE REPLACED WHEN 6" OF SEDIMENT HAS ACCUMULATED OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. MONITOR SEDIMENT FILTER BAG REGULARLY FOR THE PRESENCE OF TURBID WATER BEING DISCHARGED. IF ANY TURBID WATER IS BEING DISCHARGED FROM THE BAG THE SITUATION SHALL BE RESOLVED IMMEDIATELY. IF TEMPORARY BLOCKAGES ARE NOT FOUND, ASSUME THE BAG IS AT SEDIMENT CAPACITY AND REPLACE IMMEDIATELY.

### NOTES:

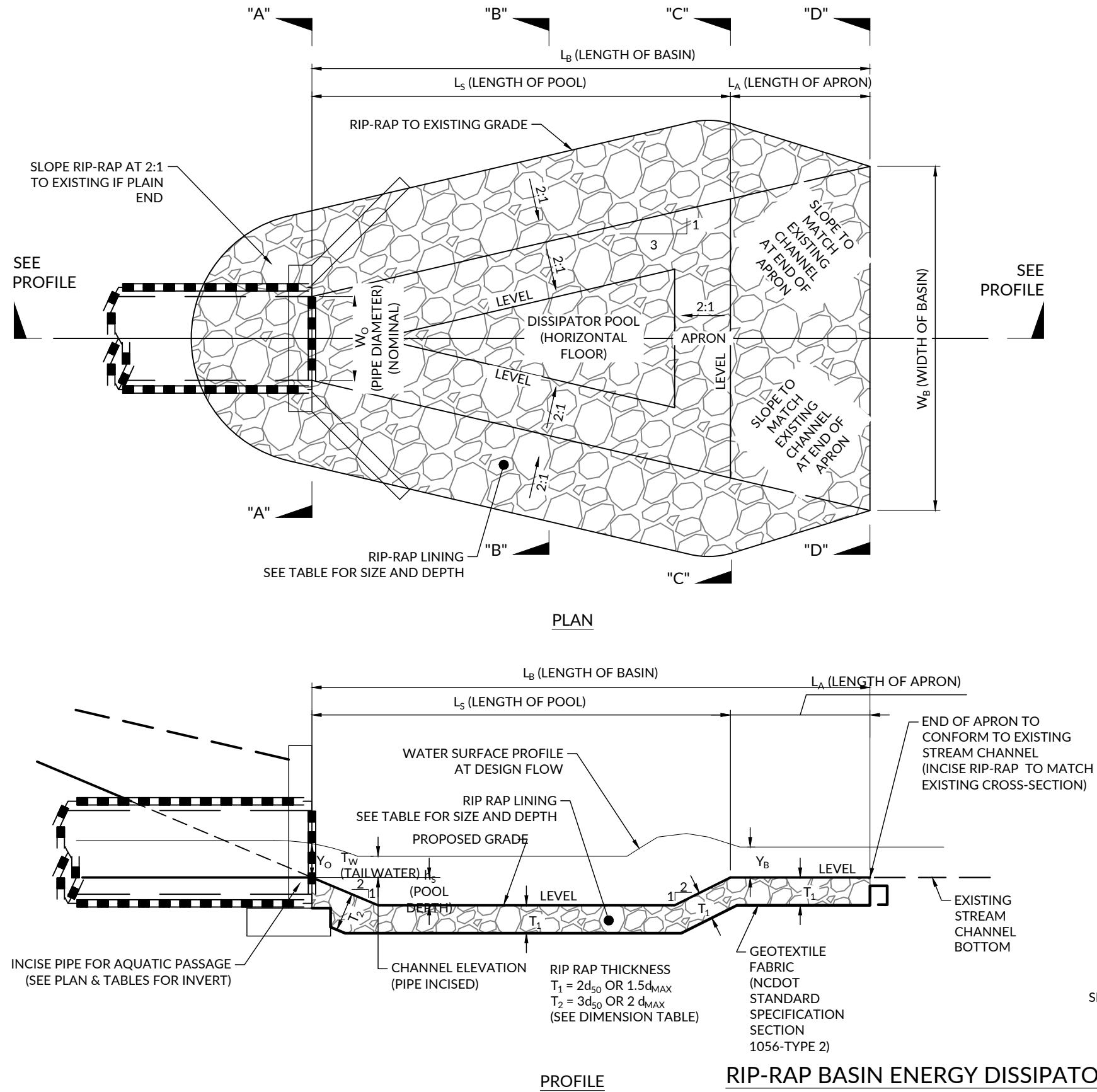
1. CONTRACTOR SHALL EXERCISE CAUTION NOT TO BURST OR DAMAGE THE TEMPORARY SEDIMENT FILTER BAG WHEN PUMPING.
2. THE LENGTH AND WIDTH OF THE TEMPORARY SEDIMENT BAG SHOWN ON THIS DRAWING MAY VARY PER VENDOR SPECIFICATIONS.
3. TEMPORARY SEDIMENT FILTER BAGS SHALL BE EQUIPPED WITH A SEWN-IN SLEEVE OF SUFFICIENT SIZE TO ACCEPT A MINIMUM FOUR-INCH DIAMETER PUMP DISCHARGE HOSE. THE DISCHARGE HOSE SHOULD BE EXTENDED INTO THIS SLEEVE A MINIMUM OF SIX INCHES AND BE TIGHTLY SECURED WITH A HOSE CLAMP OR OTHER SUITABLE MEANS TO PREVENT LEAKAGE. HOSE CONNECTION THROUGH A SLIT IN THE BAG WILL NOT BE ACCEPTABLE.
4. THE PUMP DISCHARGE HOSE CONNECTION SLEEVE SHALL BE SECURELY TIED OFF DURING DISPOSAL OF THE TEMPORARY SEDIMENT FILTER BAG IN ORDER TO PREVENT LEAKAGE OF COLLECTED SEDIMENTS.
5. TEMPORARY SEDIMENT FILTER BAG SHALL BE REPLACED WHEN 6 INCHES OF SEDIMENT HAS ACCUMULATED OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL SIZE THE BAG DEPENDING ON USE AND FLOW REQUIREMENTS.



## SEDIMENT FILTER BAG NOT TO SCALE

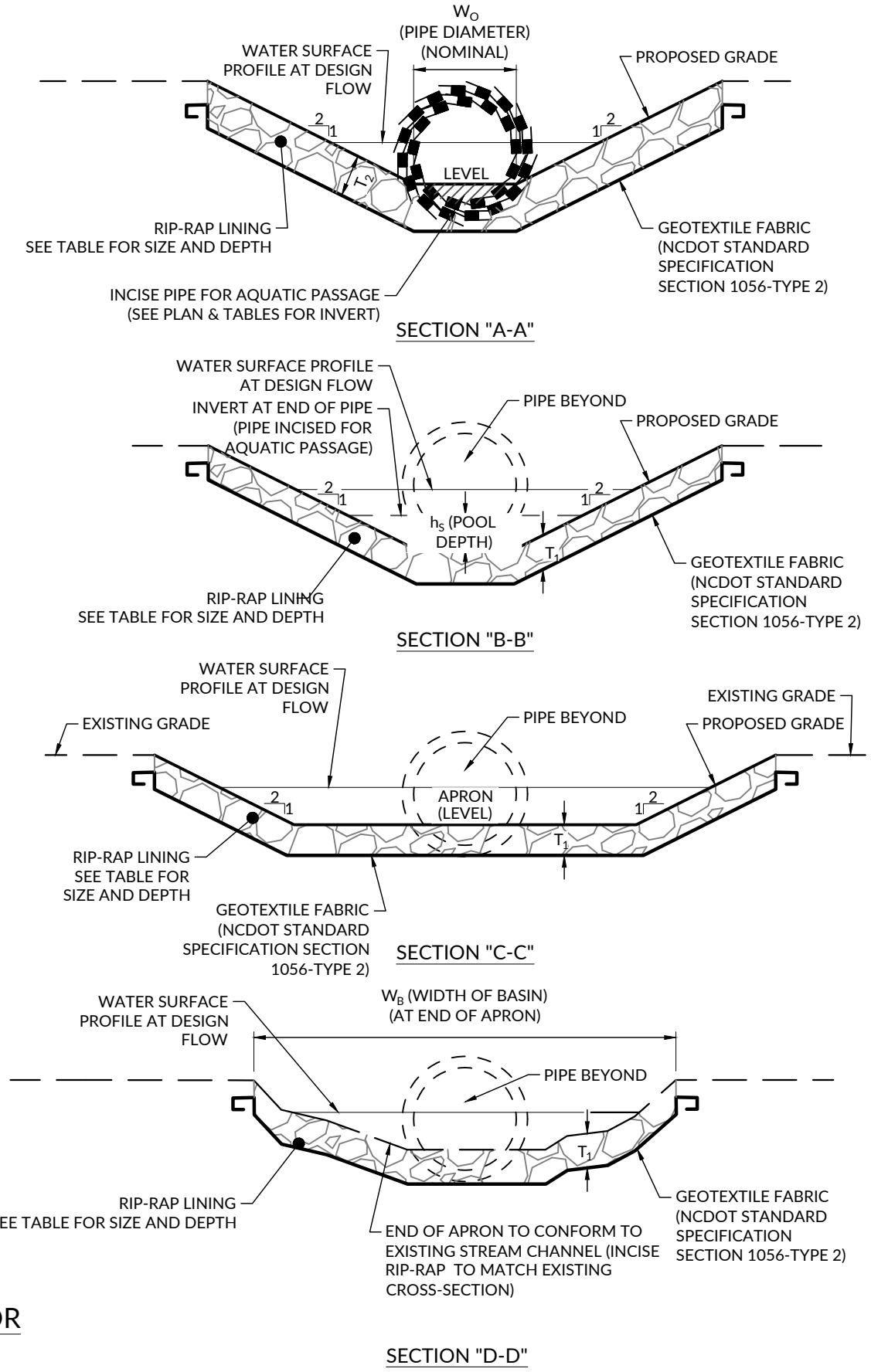


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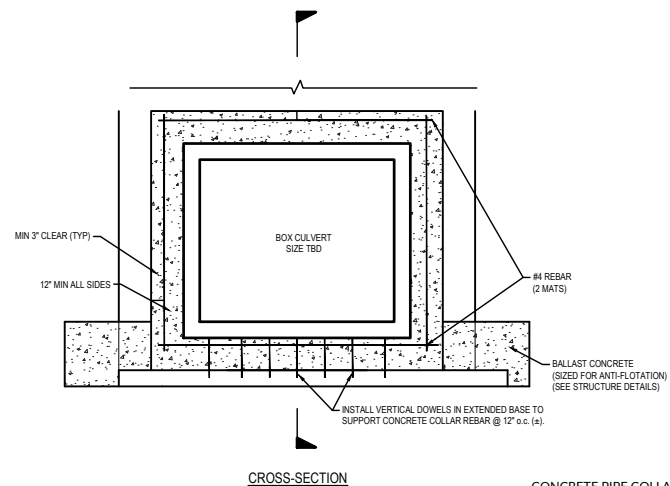
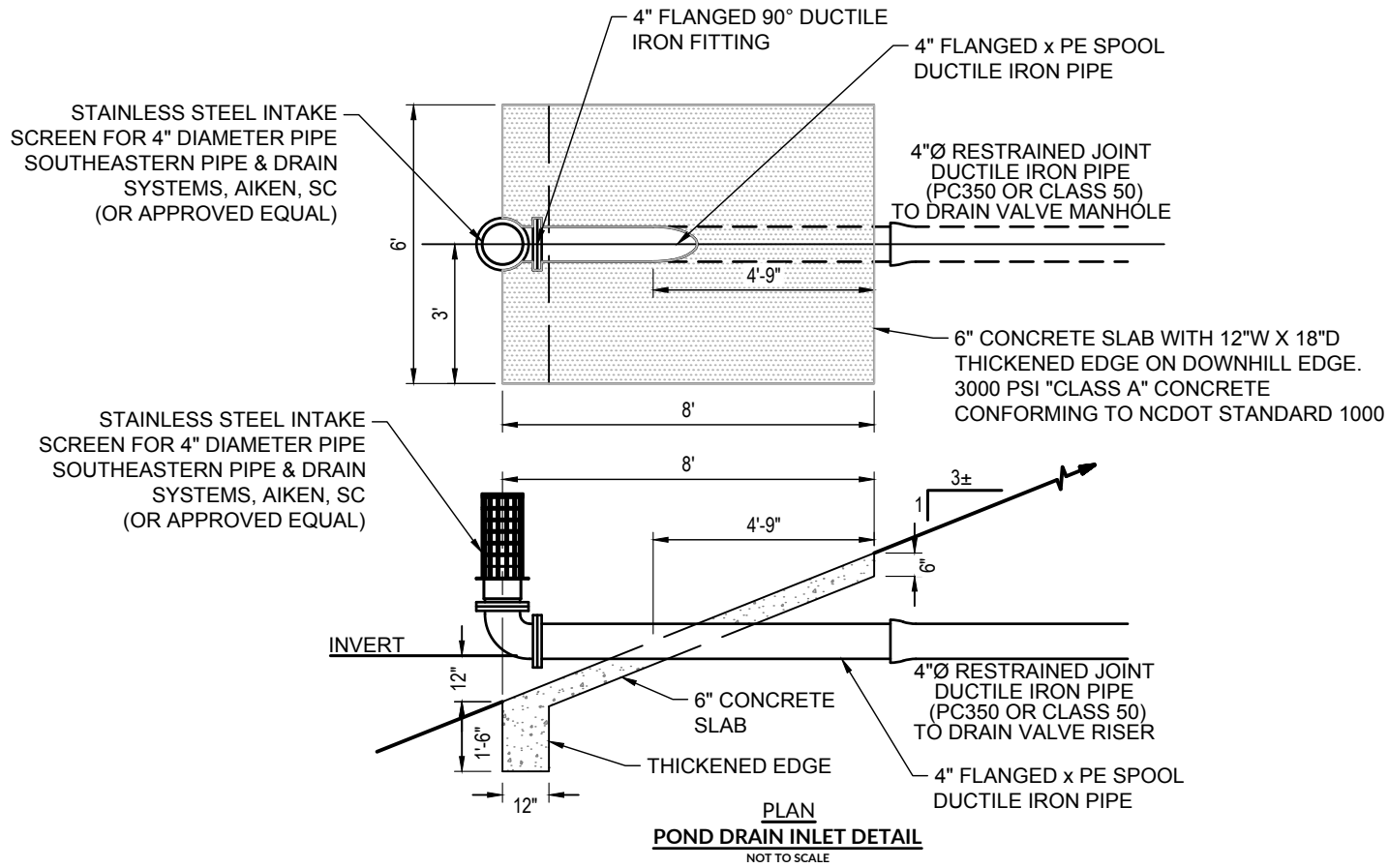
### RIP-RAP BASIN ENERGY DISSIPATOR

BASED ON HEC-14  
NOT TO SCALE

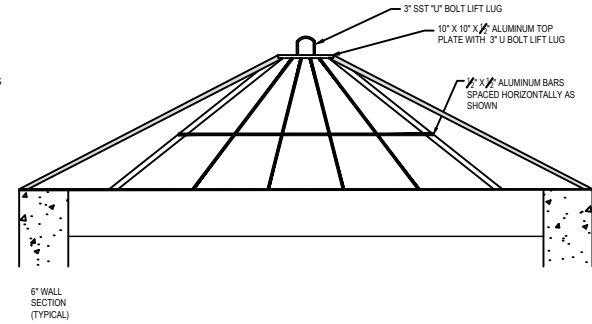
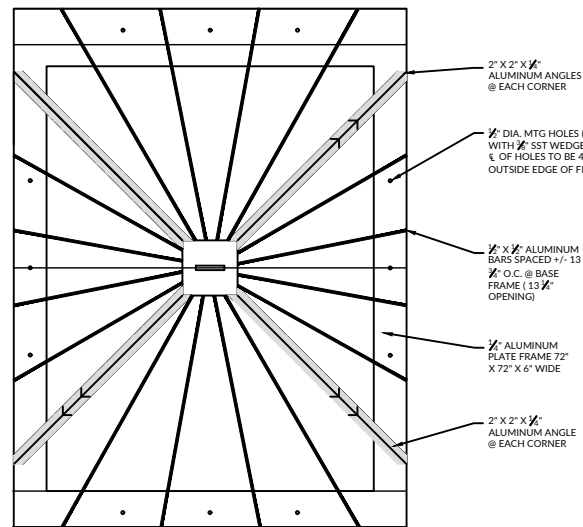
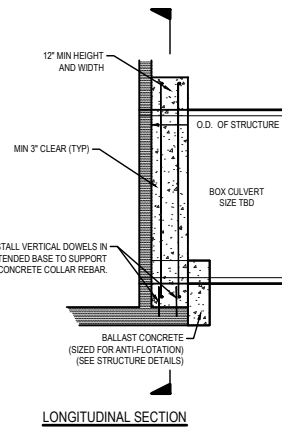


WR Job No. 0200458  
DATE 10/25/23  
DRN: WR DGN: WR CKD: WR



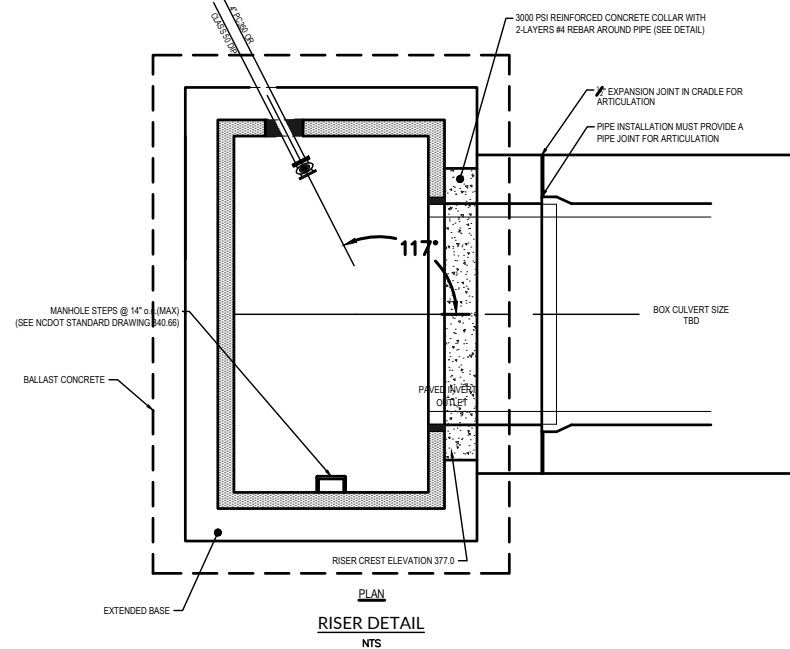
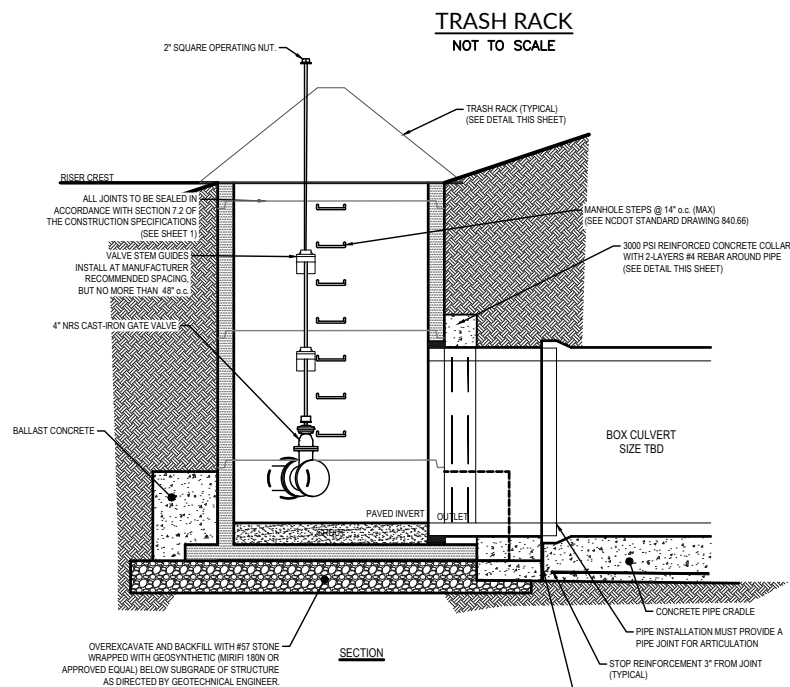


CONCRETE PIPE COLLAR AT STRUCTURE DETAIL  
NOT TO SCALE



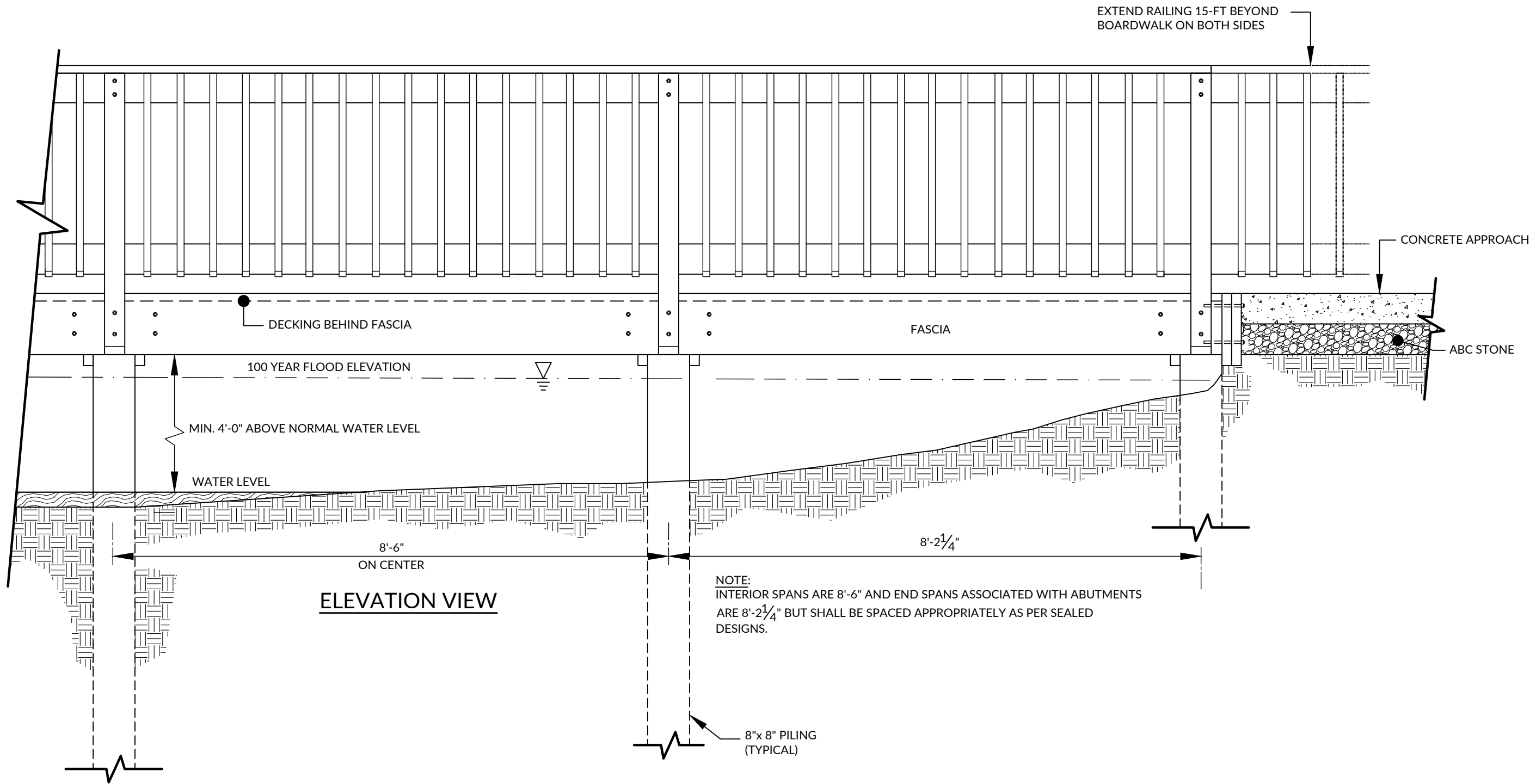
NOTES

- TRASH RACK DETAIL BASED ON POMONA PIPE PRODUCTS "STANDARD ALUMINUM BAR & ANGLE PEAKED ROOF TRASH RACK WITH ONE QUADRANT HINGED FOR MANWAY ACCESS TO FIT 132" x 72" I.D. CONCRETE RISER WITH 6" OR 8" THICK WALLS".
- TRASH RACK TO BE POWDER-COATED BLACK.





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**BOARDWALK MULTI-USE PATH BRIDGE**  
NOT TO SCALE



MAP	IMPACT LOCATION	IMPACT SPECIFICATION	WETLAND, STREAM, AND OPEN WATER																
			PERMANENT							PERMANENT (NO FUNCTIONAL LOSS)			TEMPORARY						
			STREAM			WETLANDS		OPEN WATER		STREAM			STREAM			WETLANDS		OPEN WATER	
			(LF)	(SF)	(AC)	(SF)	(AC)	(SF)	(AC)	(LF)	(SF)	(AC)	(LF)	(SF)	(AC)	(SF)	(AC)	(SF)	(AC)
A	S1	SCM GRADING	316	1,927	0.0442	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	S2	CONSTRUCTION ACCESS	-	-	-	-	-	-	-	-	-	-	20	187	0.0043	-	-	-	-
	S3	CONSTRUCTION ACCESS	-	-	-	-	-	-	-	-	-	-	12	48	0.0011	-	-	-	-
	S4	ROAD GRADING	317	2,092	0.0480	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	S5	CONSTRUCTION ACCESS	-	-	-	-	-	-	-	-	-	-	21	51	0.0012	-	-	-	-
	S6	ROAD CROSSING	194	608	0.0140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	S7	RIP-RAP DISSIPATOR	-	-	-	-	-	-	-	19	48	0.0011	-	-	-	-	-	-	-
D	S8	ROAD GRADING	138	252	0.0058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	S9	GREENWAY GRADING	169	574	0.0132														
	W1	ROAD GRADING	-	-	-	1,838	0.042	-	-	-	-	-	-	-	-	-	-	-	-
	W2	GREENWAY GRADING	-	-	-	827	0.019	-	-	-	-	-	-	-	-	-	-	-	-
E	S10	SEWER CROSSING	-	-	-	-	-	-	-	-	-	-	30	218	0.0050	-	-	-	-
F	W3	ROAD GRADING	-	-	-	57	0.001	-	-	-	-	-	-	-	-	-	-	-	-
G	S11	ROAD GRADING	266	689	0.0158	-	-	-	-	-	-	-	-	-	-	-	-	-	-



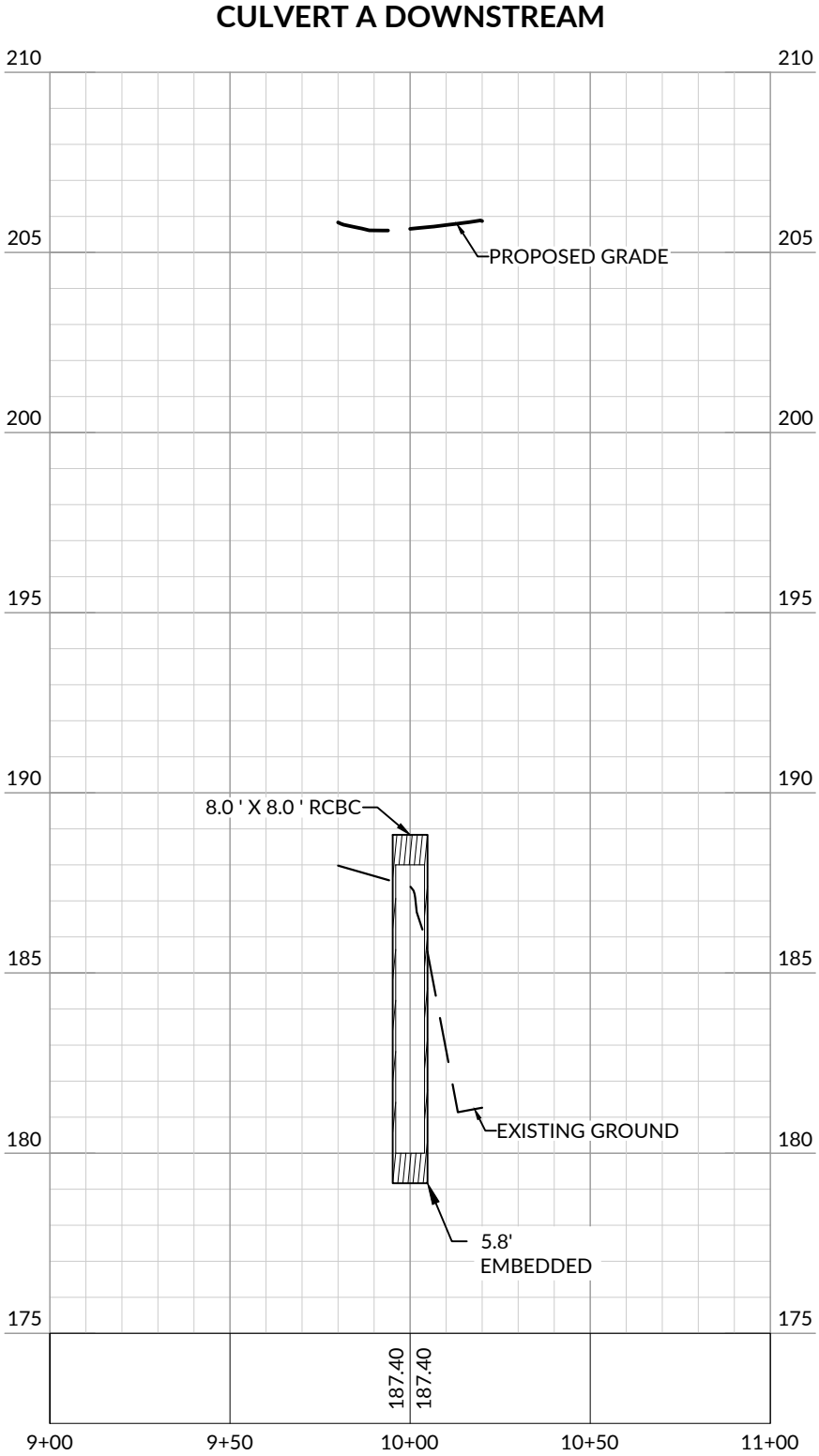
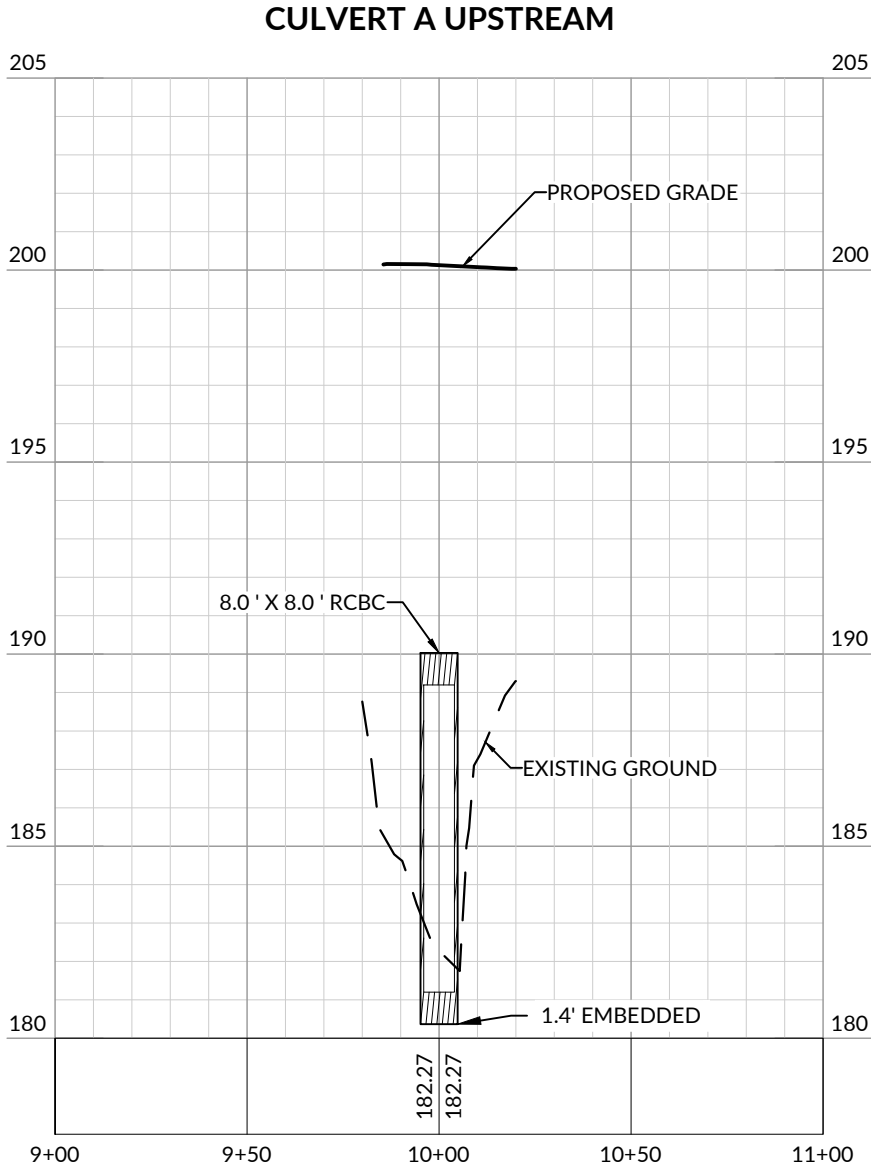
MAP	IMPACT LOCATION	IMPACT SPECIFICATION	WETLAND, STREAM, AND OPEN WATER																
			PERMANENT							PERMANENT (NO FUNCTIONAL LOSS)			TEMPORARY						
			STREAM			WETLANDS		OPEN WATER		STREAM			STREAM			WETLANDS		OPEN WATER	
			(LF)	(SF)	(AC)	(SF)	(AC)	(SF)	(AC)	(LF)	(SF)	(AC)	(LF)	(SF)	(AC)	(SF)	(AC)	(SF)	(AC)
H	S12	SECONDARY IMPACT	125	416	0.0095	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	S13	RIP-RAP DISSIPATOR	-	-	-	-	-	-	-	25	81	0.0019	-	-	-	-	-	-	-
	S14	ROAD CROSSING	233	885	0.0203	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W4	ROAD GRADING	-	-	-	324	0.007	-	-	-	-	-	-	-	-	-	-	-	-
	O1	TEMPORARY OPEN WATER (POND) - COFFER DAM & DEWATERING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,178	0.280
	O2	PERMANENT OPEN WATER (POND) - CULVERT CONSTRUCTION	-	-	-	-	-	344	0.008	-	-	-	-	-	-	-	-	-	-
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J	W5	ROAD GRADING	-	-	-	7601	0.174	-	-	-	-	-	-	-	-	-	-	-	-
K	W6	SEWER CROSSING	-	-	-	-	-	-	-	-	-	-	-	-	-	3,215	0.074	-	-
	W7	OUTFALL/GRADING	-	-	-	469	0.011	-	-	-	-	-	-	-	-	-	-	-	-
	W8	RIP-RAP DISSIPATOR	-	-	-	441	0.010	-	-	-	-	-	-	-	-	-	-	-	-
	O3	PERMANENT OPEN WATER (POND)) - CULVERT CONSTRUCTION	-	-	-	-	-	376	0.009	-	-	-	-	-	-	-	-	-	-
	O4	TEMPORARY OPEN WATER (POND) - COFFER DAM & DEWATERING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,097	0.209
L	W9	LOT GRADING	-	-	-	1,943	0.045	-	-	-	-	-	-	-	-	-	-	-	-
M	W10	ROAD GRADING	-	-	-	117	0.003	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL IMPACTS		1,758	7,443	0.1709	11,557	0.265	720	0.017	44	130	0.0030	83	504	0.0116	3,215	0.074	21,275	0.488







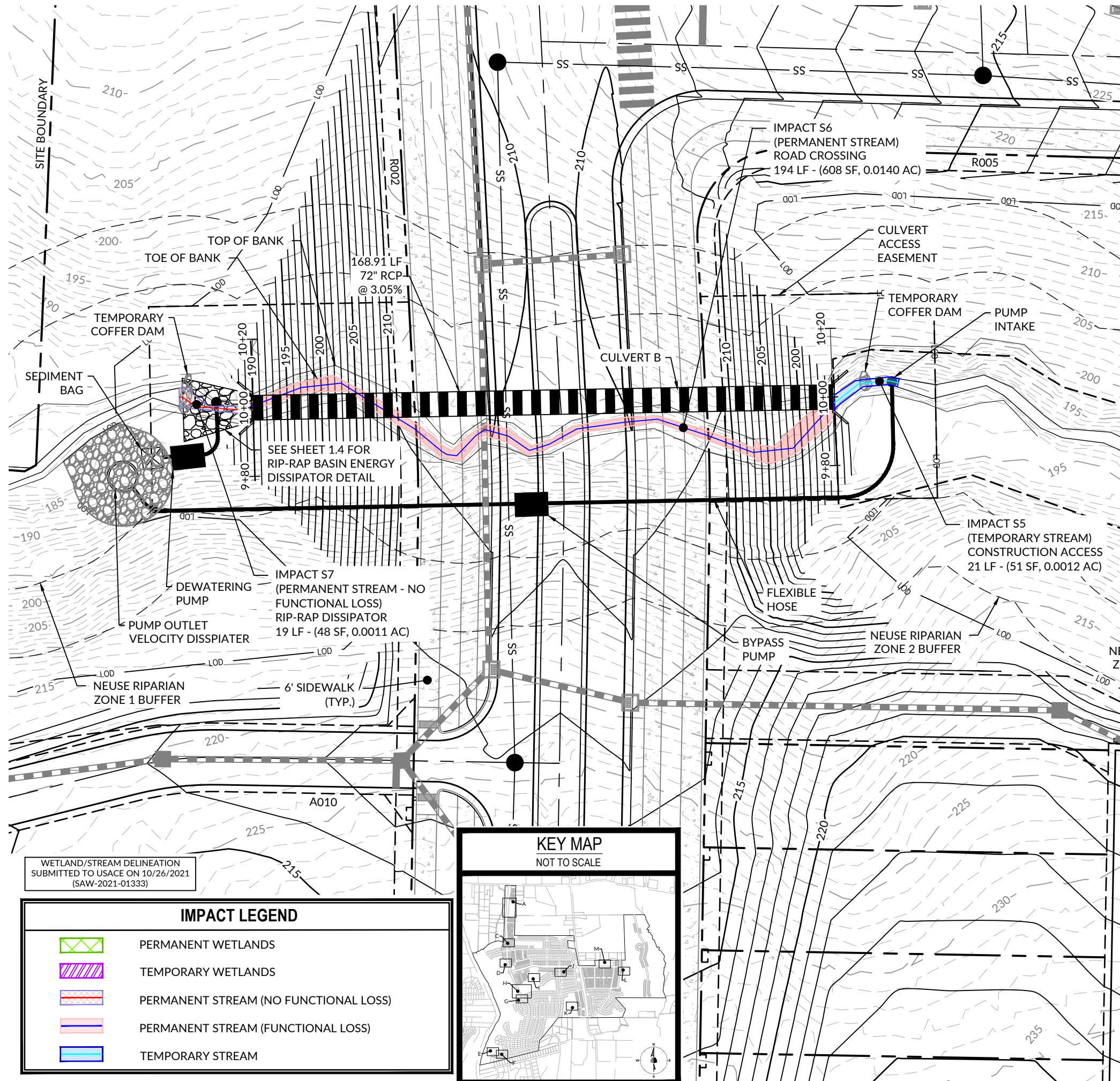
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**SCALE:**  
1" = 50' HORIZ.  
1" = 5' VERT.

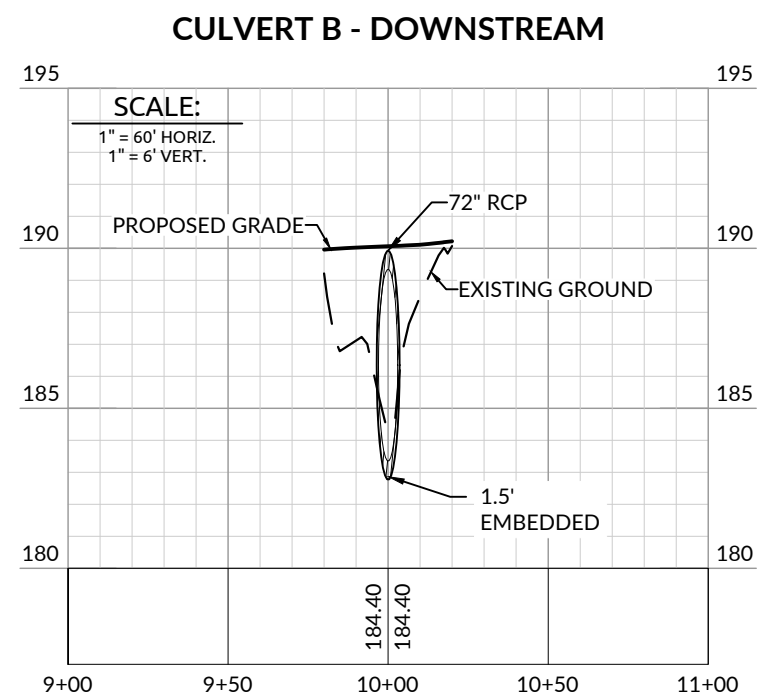
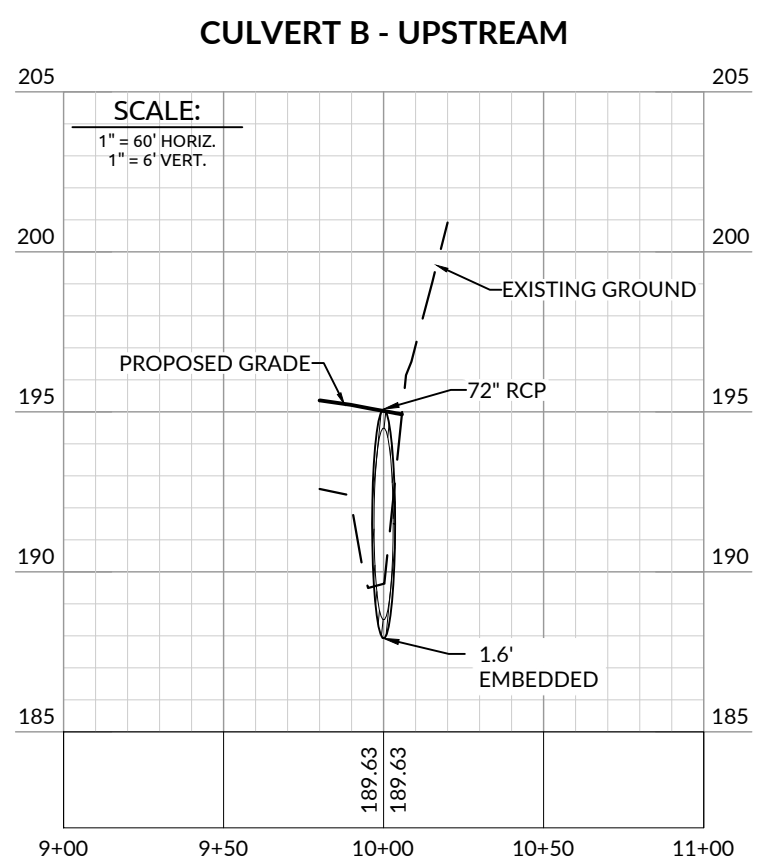
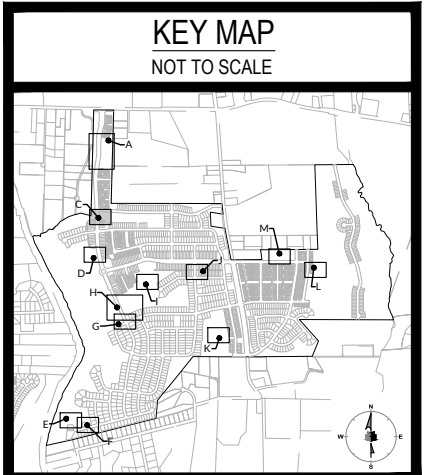


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WETLAND/STREAM DELINEATION  
SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND	
	PERMANENT WETLANDS
	TEMPORARY WETLANDS
	PERMANENT STREAM (NO FUNCTIONAL LOSS)
	PERMANENT STREAM (FUNCTIONAL LOSS)
	TEMPORARY STREAM



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BANKS 20  
PLANNED DEVELOPMENT

STREAM & WETLANDS IMPACT  
MAPS

SCALE: 1 inch = 30 ft.

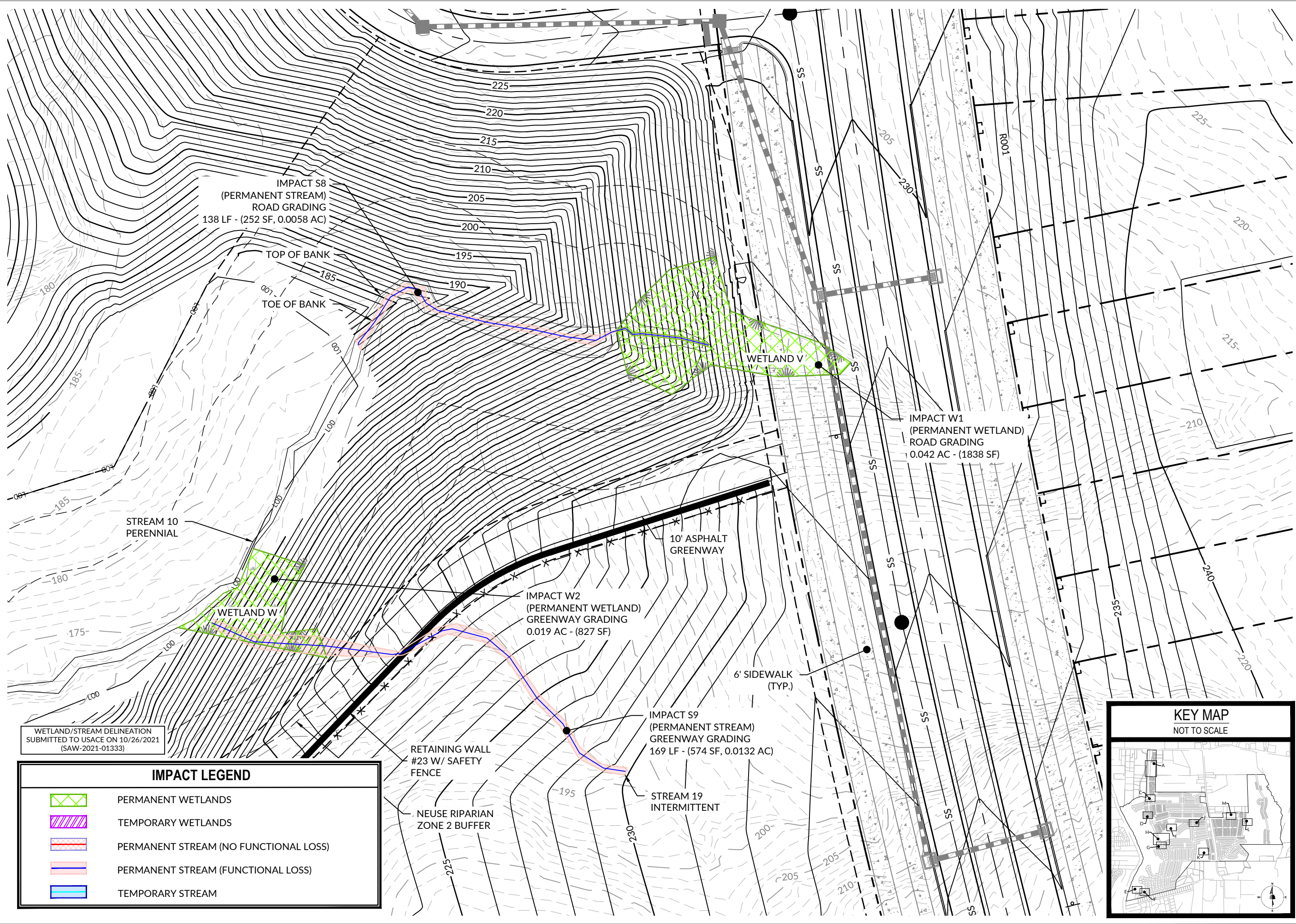
WR Job No. 0200458 DATE 10/25/23  
DRN: WR DGN: WR CKD: WR

our people • your success

EST. 1983

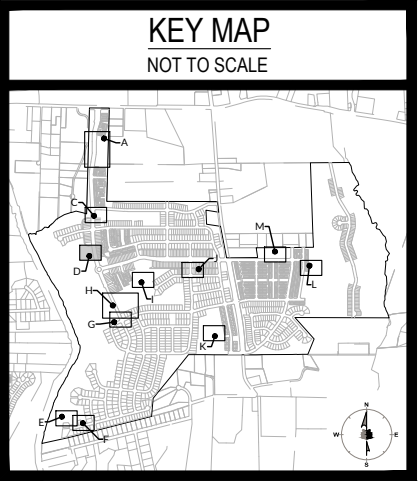


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WETLAND/STREAM DELINEATION  
SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND	
	PERMANENT WETLANDS
	TEMPORARY WETLANDS
	PERMANENT STREAM (NO FUNCTIONAL LOSS)
	PERMANENT STREAM (FUNCTIONAL LOSS)
	TEMPORARY STREAM



0 15 30

SCALE: 1 inch = 30 ft.

WR Job No. DATE  
0200458 10/25/23

DRN: WR DGN: WR CKD: WR

EST. 1983

BANKS 20  
PLANNED DEVELOPMENT

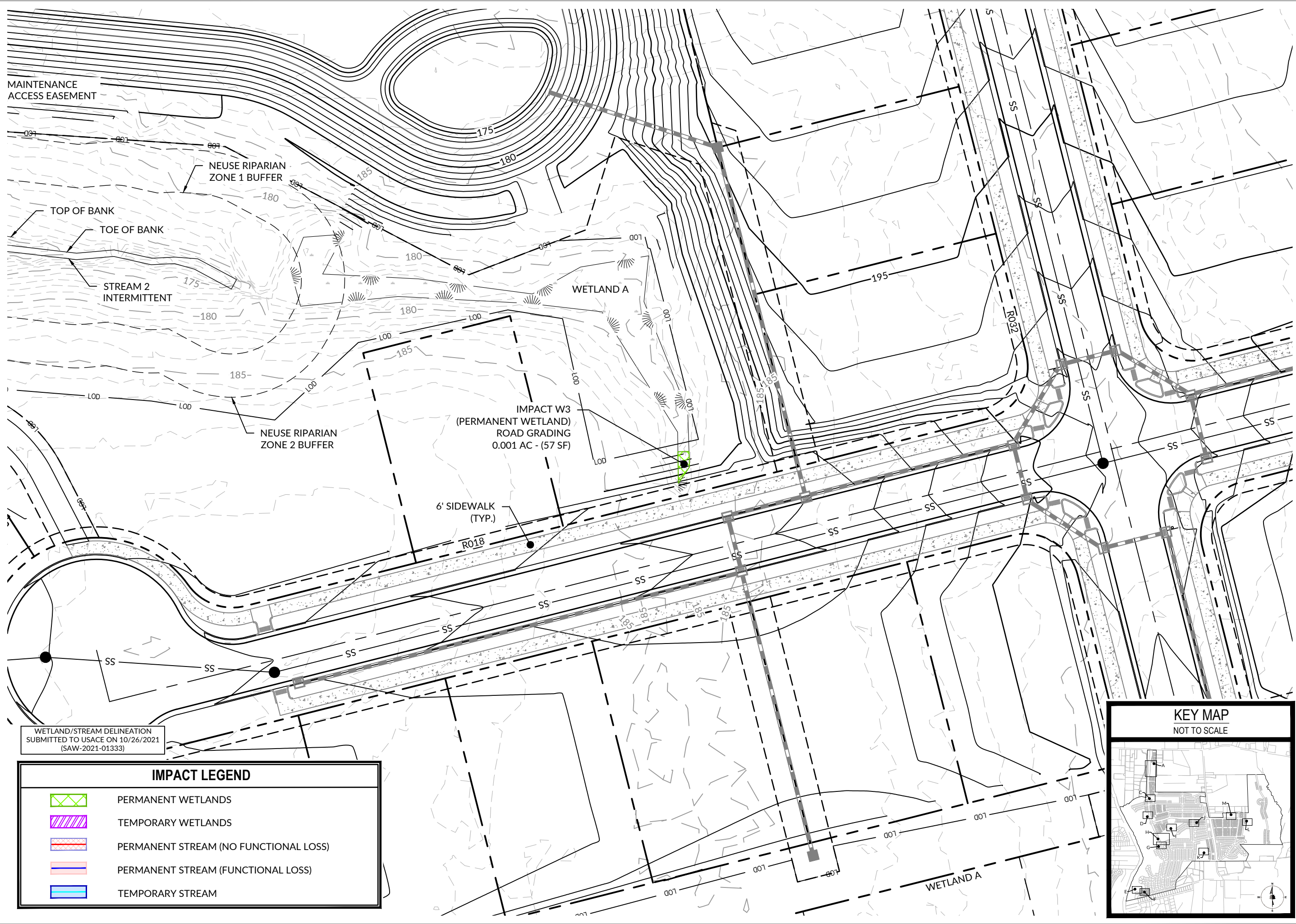
STREAM & WETLANDS IMPACT  
MAPS









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
WETLAND/STREAM DELINEATION  
SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)


IMPACT LEGEND

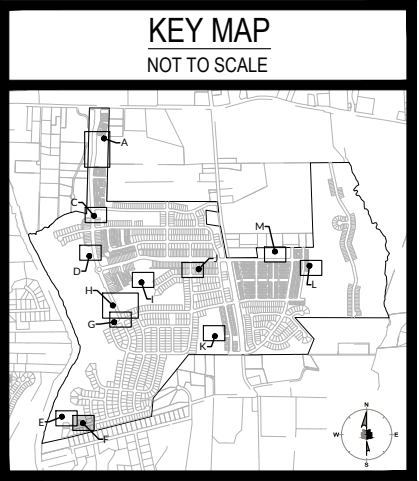
PERMANENT WETLANDS

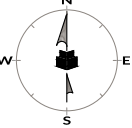
TEMPORARY WETLANDS

PERMANENT STREAM (NO FUNCTIONAL LOSS)

PERMANENT STREAM (FUNCTIONAL LOSS)

TEMPORARY STREAM



  
SCALE: 1 inch = 40 ft.

0200458

10/25/23

DRN: WR DGN: WR CKD: WR

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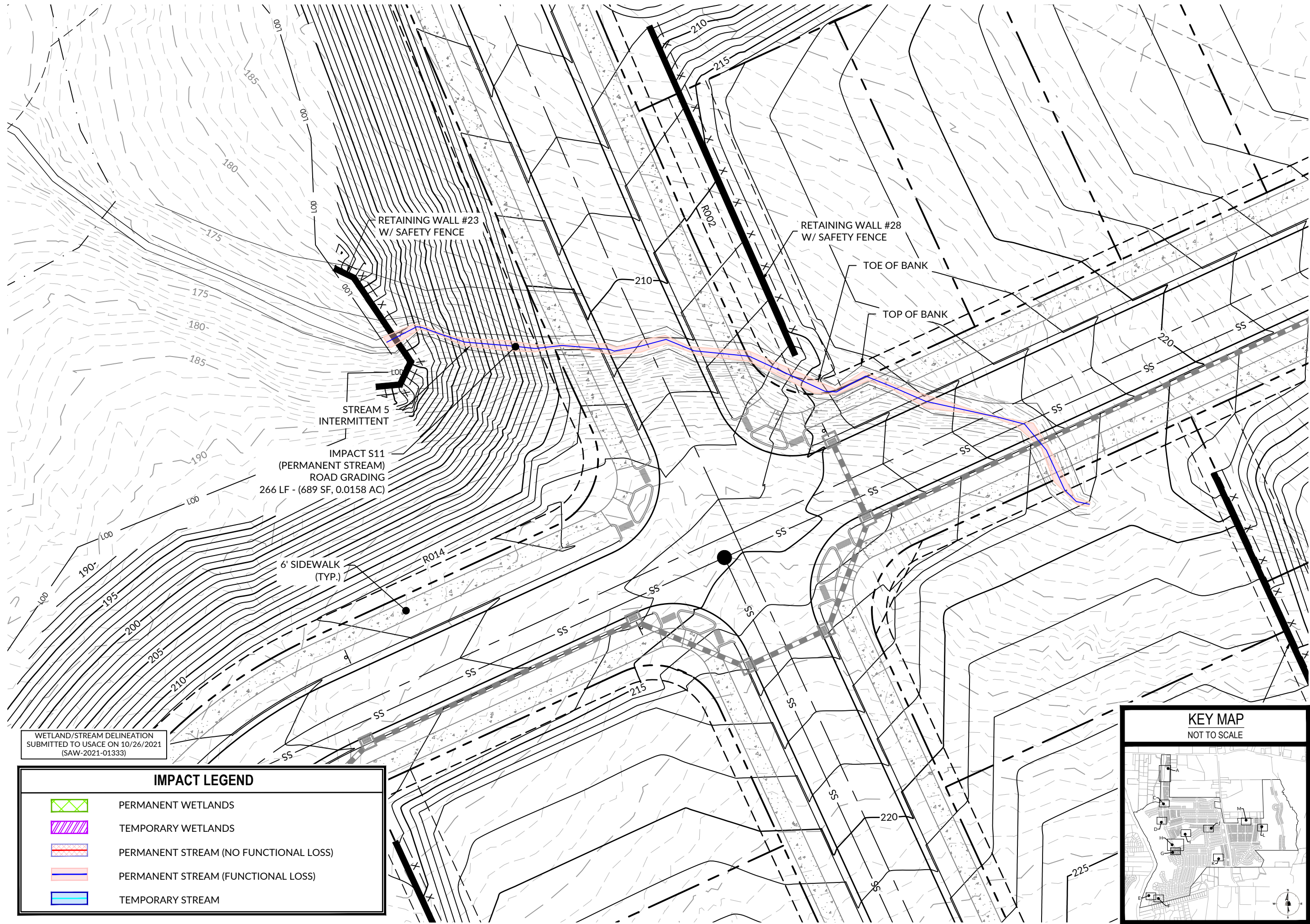
BANKS 20

PLANNED DEVELOPMENT

STREAM & WETLANDS IMPACT  
MAPS

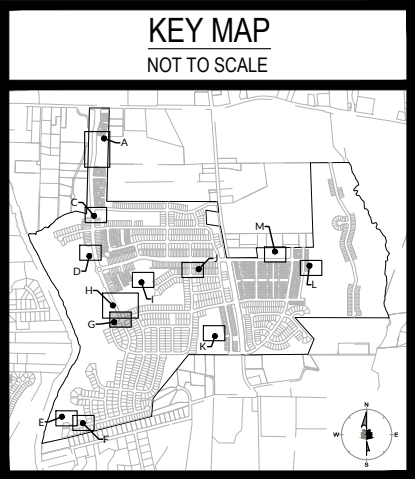


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WETLAND/STREAM DELINEATION  
SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND	
	PERMANENT WETLANDS
	TEMPORARY WETLANDS
	PERMANENT STREAM (NO FUNCTIONAL LOSS)
	PERMANENT STREAM (FUNCTIONAL LOSS)
	TEMPORARY STREAM



0 15 30  
SCALE: 1 inch = 30 ft.

WR Job No. 0200458 DATE 10/25/23  
DRN: WR DGN: WR CKD: WR

G

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**PLANNED DEVELOPMENT**

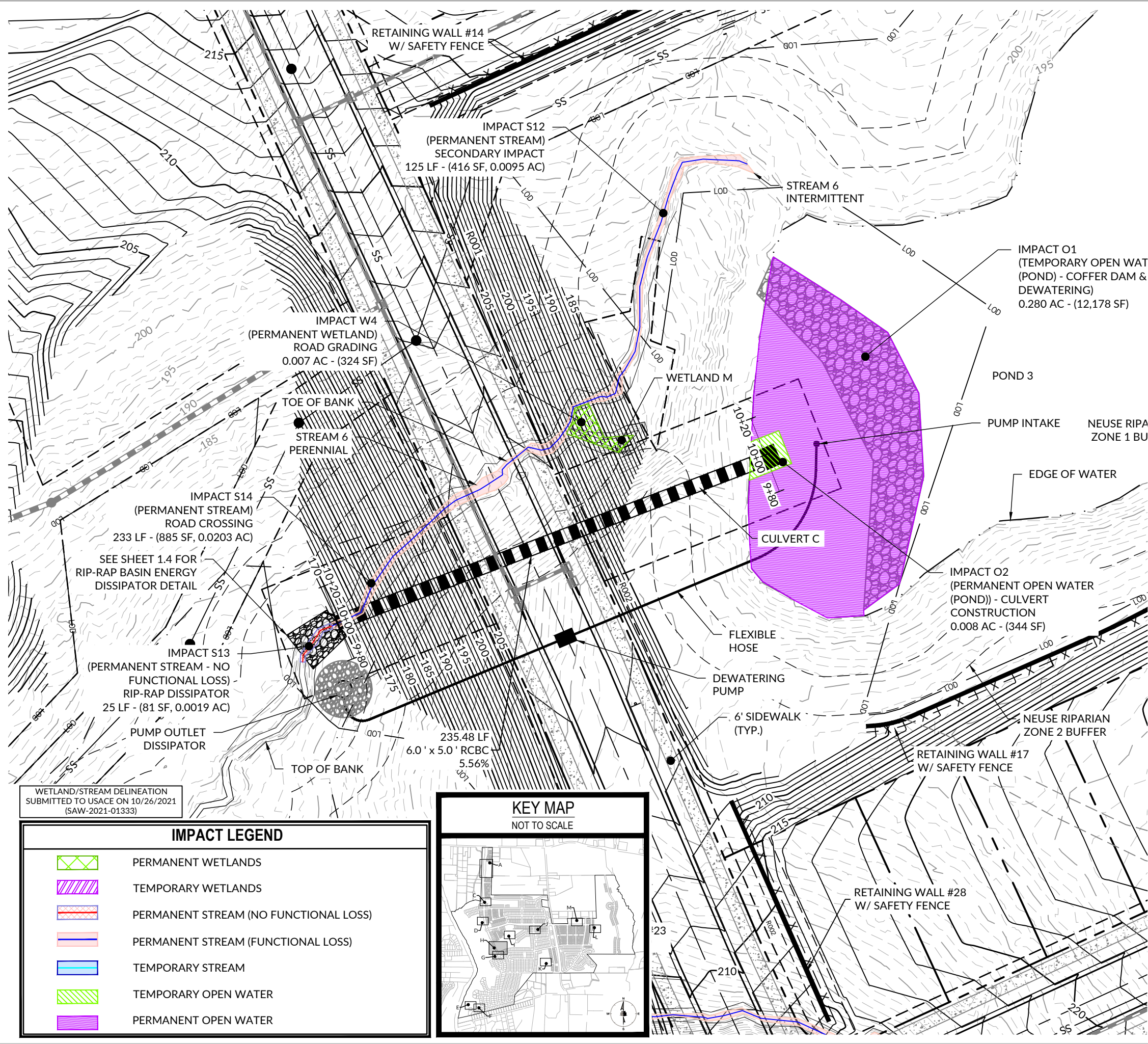
**STREAM & WETLANDS IMPACT MAPS**

RALEIGH, NC

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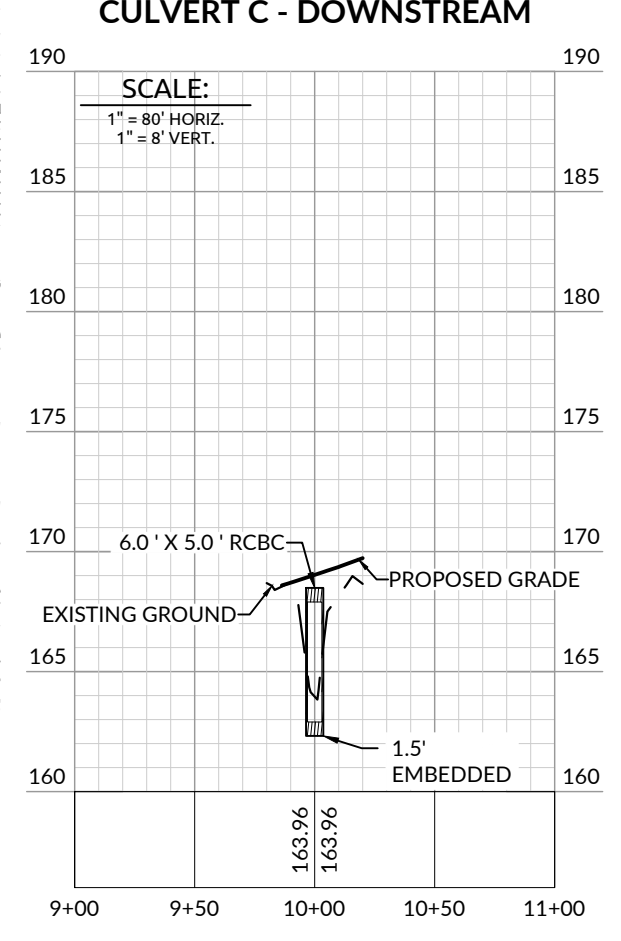
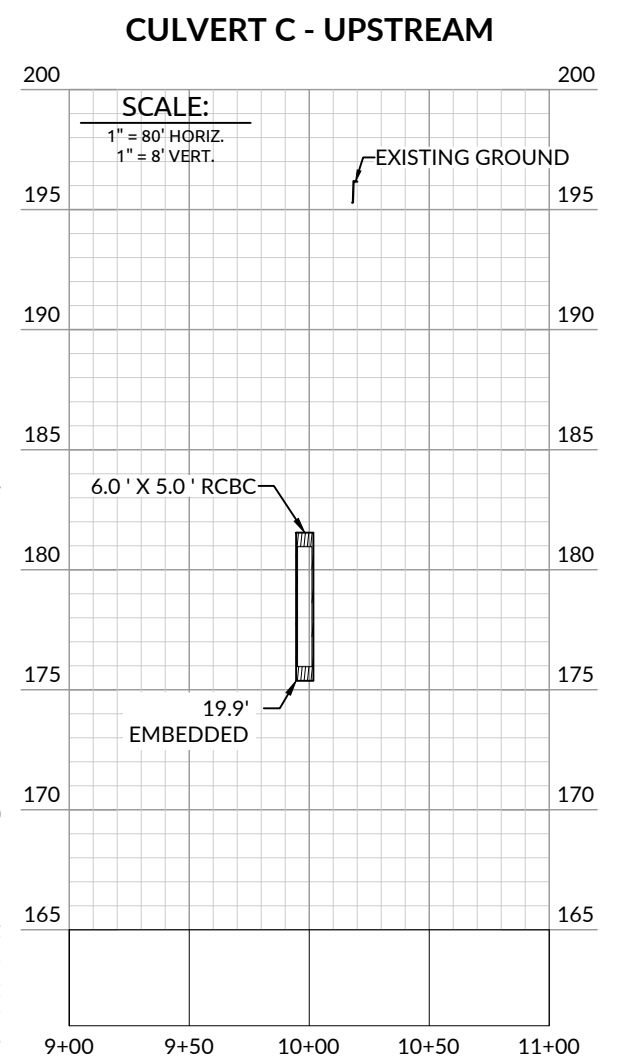
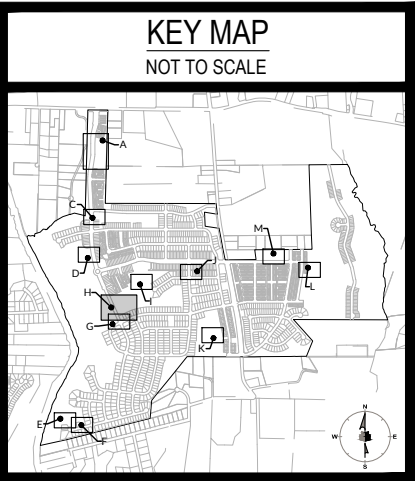


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WETLAND/STREAM DELINEATION  
SUBMITTED TO USAGE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND	
	PERMANENT WETLANDS
	TEMPORARY WETLANDS
	PERMANENT STREAM (NO FUNCTIONAL LOSS)
	PERMANENT STREAM (FUNCTIONAL LOSS)
	TEMPORARY STREAM
	TEMPORARY OPEN WATER
	PERMANENT OPEN WATER



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RALEIGH, NC

## STREAM & WETLANDS IMPACT MAPS

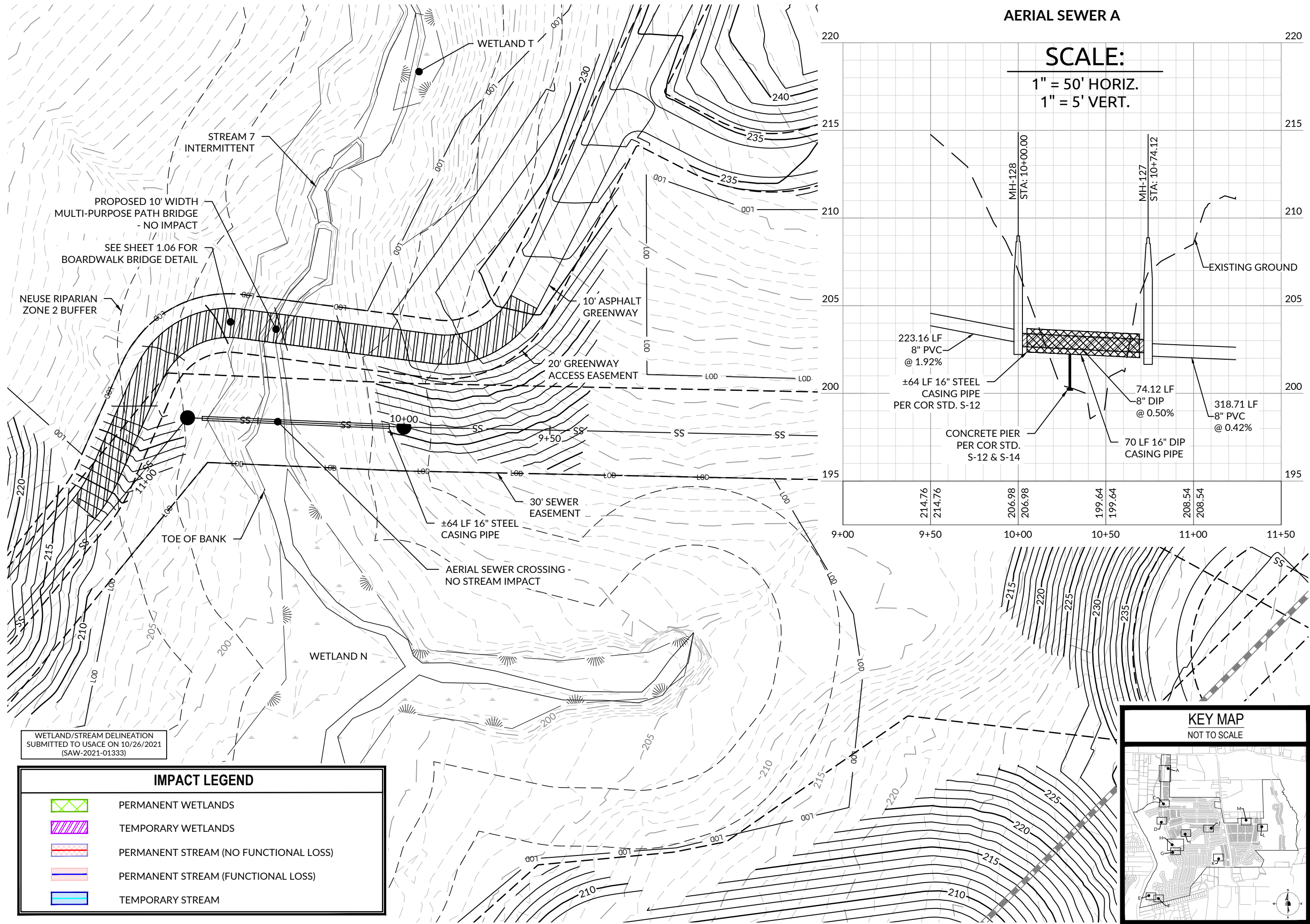
0 25 50  
SCALE: 1 inch = 50 ft.

WR Job No. 0200458 DATE 10/25/23  
DRN: WR DGN: WR CKD: WR

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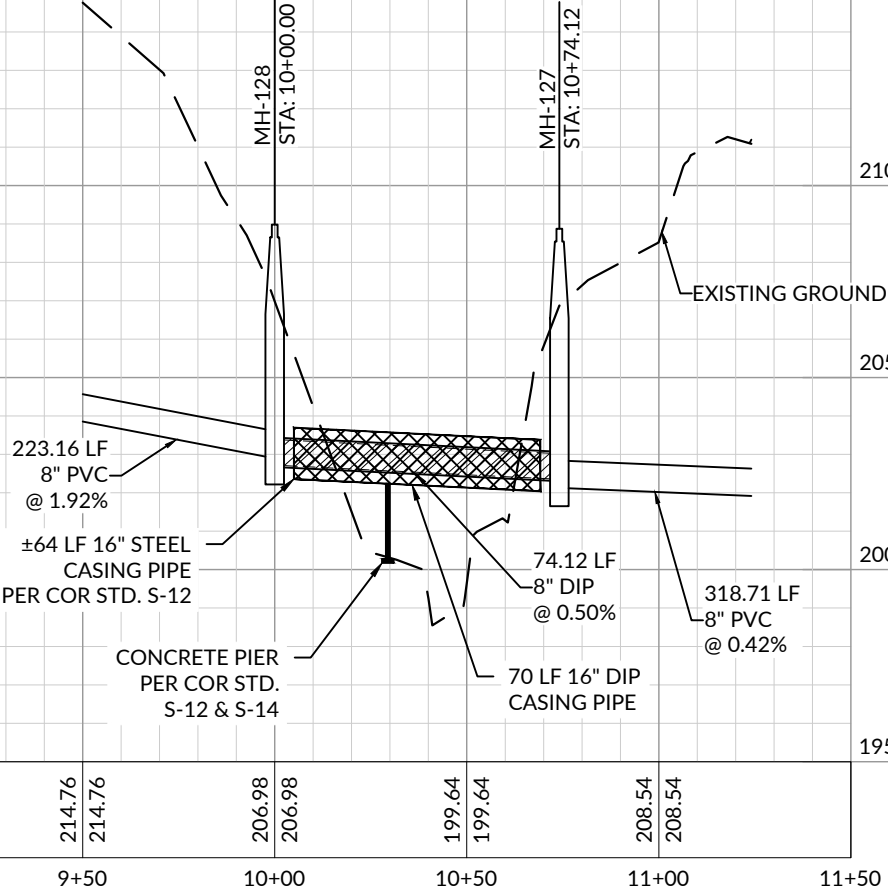


AERIAL SEWER A

SCALE:

1" = 50' HORIZ.

1" = 5' VERT.

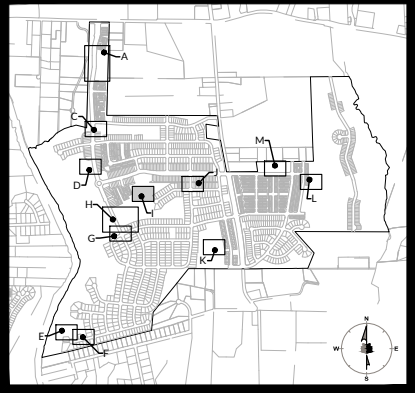


WETLAND/STREAM DELINEATION  
SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND

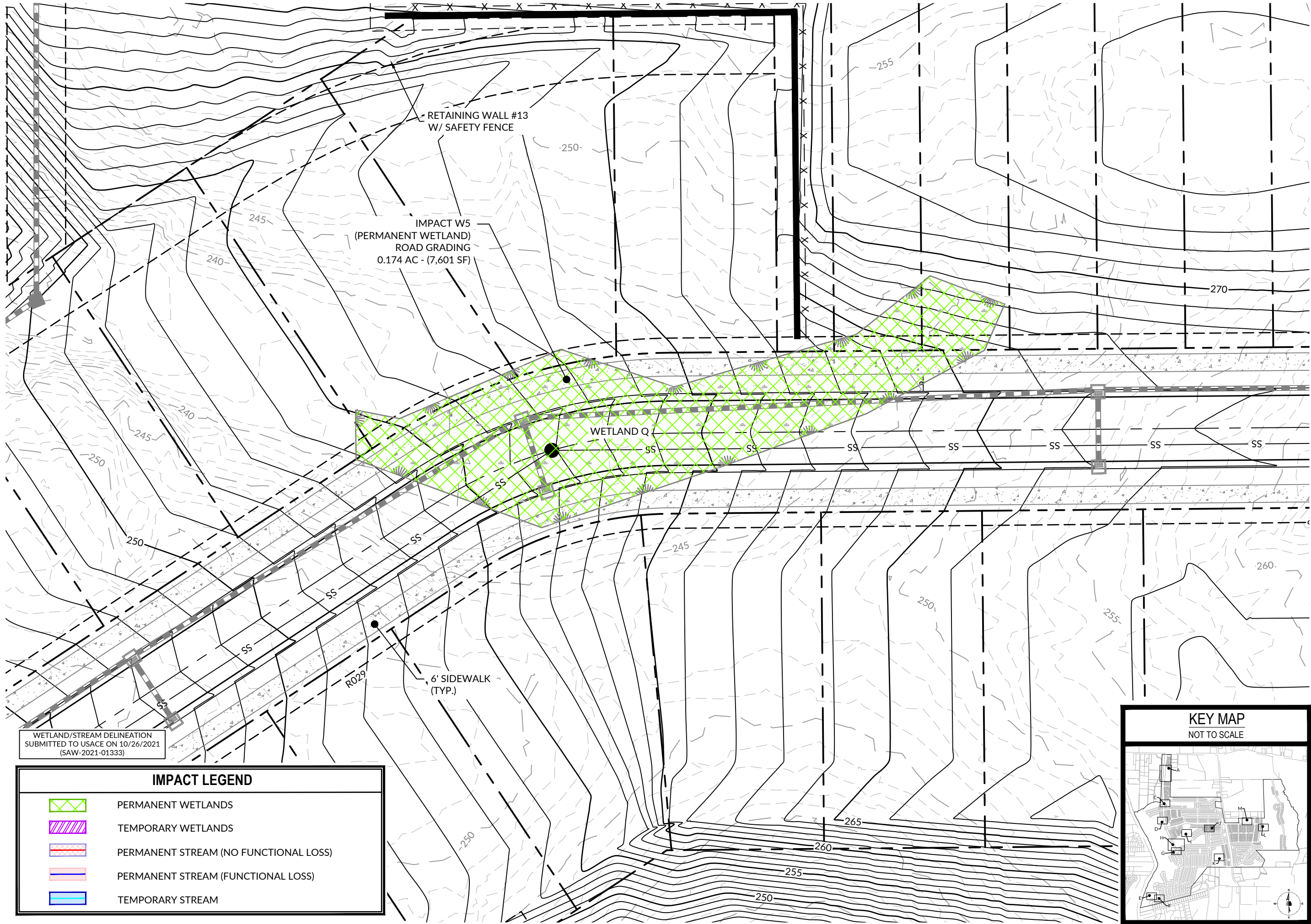
- PERMANENT WETLANDS
- TEMPORARY WETLANDS
- PERMANENT STREAM (NO FUNCTIONAL LOSS)
- PERMANENT STREAM (FUNCTIONAL LOSS)
- TEMPORARY STREAM

KEY MAP  
NOT TO SCALE

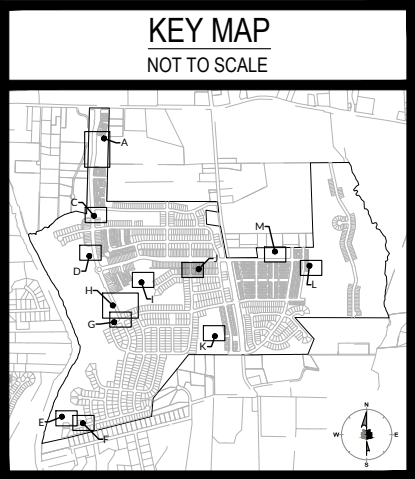




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IMPACT LEGEND	
	PERMANENT WETLANDS
	TEMPORARY WETLANDS
	PERMANENT STREAM (NO FUNCTIONAL LOSS)
	PERMANENT STREAM (FUNCTIONAL LOSS)
	TEMPORARY STREAM



0 15 30

SCALE: 1 inch = 30 ft.

WR Job No. 0200458 DATE 10/25/23

DRN: WR DGN: WR CKD: WR

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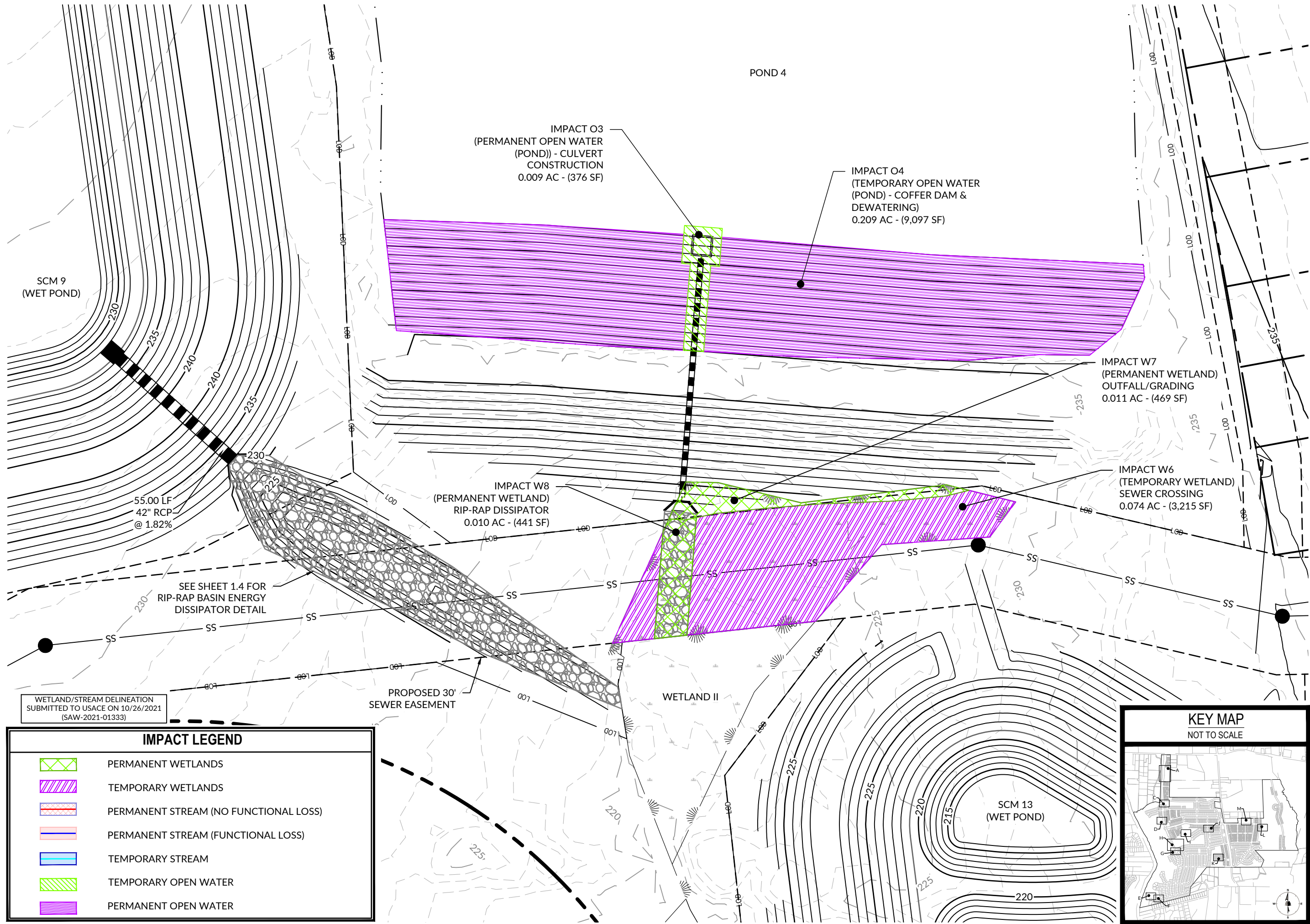
**STREAM & WETLANDS IMPACT MAPS**

RALEIGH, NC

**STREAM & WETLANDS IMPACT MAPS**



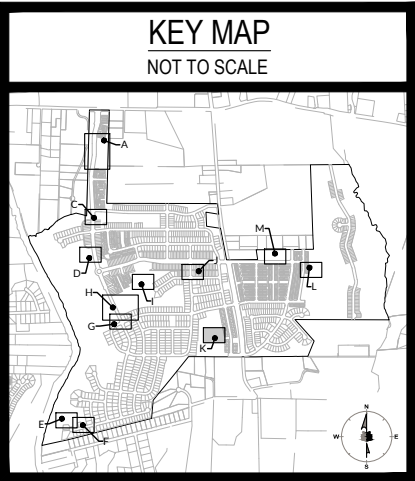
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(SAW-2021-01333)

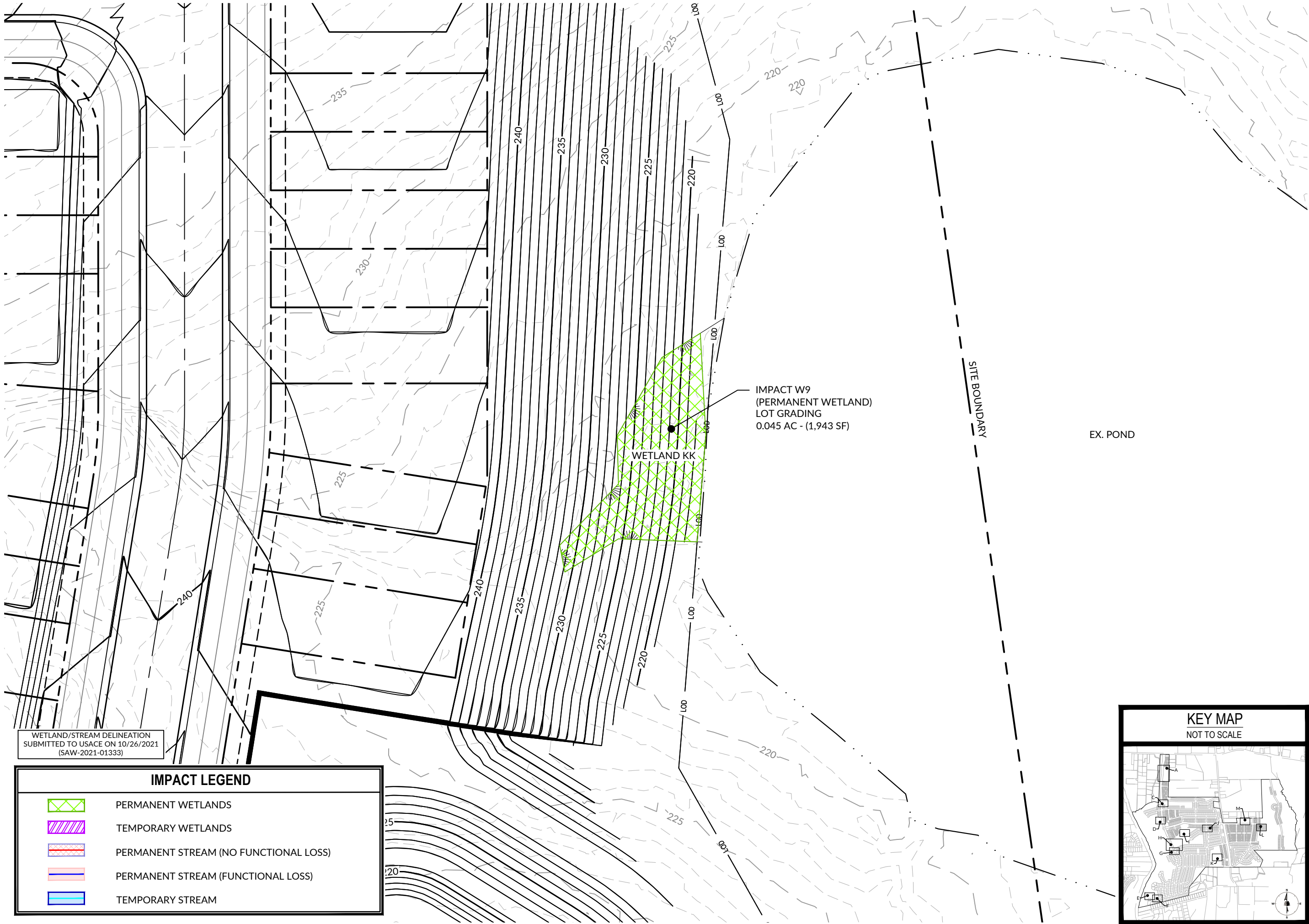
### IMPACT LEGEND

- |  |                                       |
|--|---------------------------------------|
|  | PERMANENT WETLANDS                    |
|  | TEMPORARY WETLANDS                    |
|  | PERMANENT STREAM (NO FUNCTIONAL LOSS) |
|  | PERMANENT STREAM (FUNCTIONAL LOSS)    |
|  | TEMPORARY STREAM                      |
|  | TEMPORARY OPEN WATER                  |
|  | PERMANENT OPEN WATER                  |





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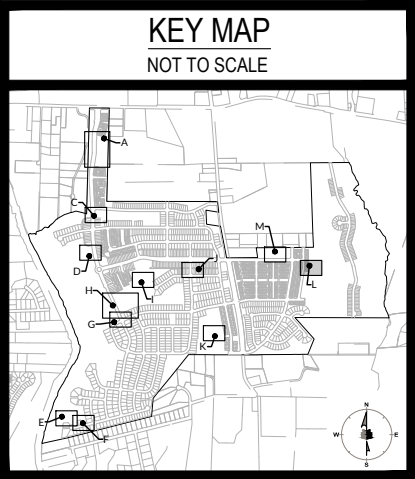
PERMANENT WETLANDS

TEMPORARY WETLANDS

PERMANENT STREAM (NO FUNCTIONAL LOSS)

PERMANENT STREAM (FUNCTIONAL LOSS)

TEMPORARY STREAM



SCALE: 1 inch = 30 ft.

WR: Job No. 0200458 DATE 10/25/23 DRN: WR DGN: WR CKD: WR

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PLANNED DEVELOPMENT

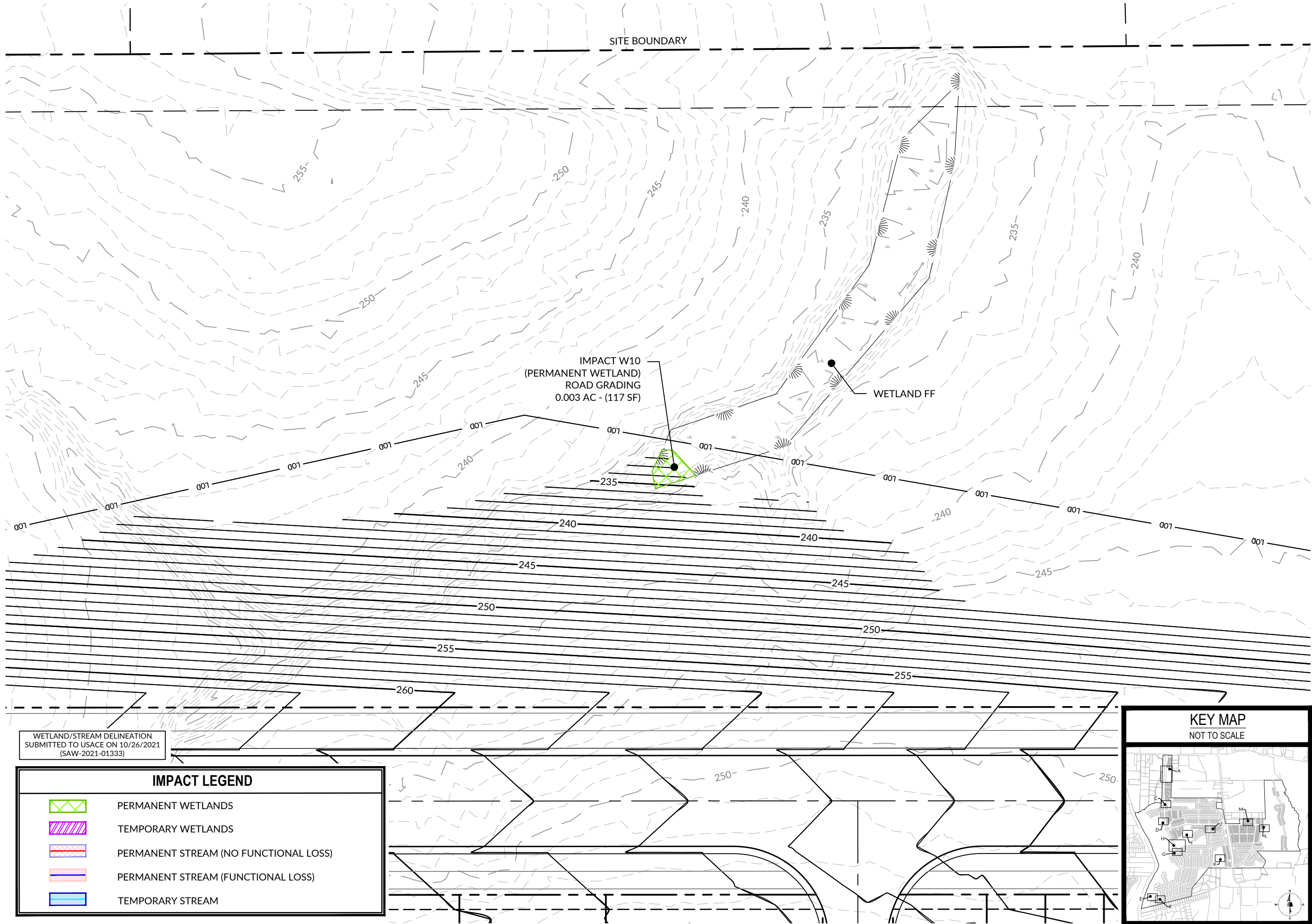
STREAM & WETLANDS IMPACT MAPS

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SUBMITTED TO USACE ON 10/26/2021  
(SAW-2021-01333)

IMPACT LEGEND

PERMANENT WETLANDS

TEMPORARY WETLANDS

PERMANENT STREAM (NO FUNCTIONAL LOSS)

PERMANENT STREAM (FUNCTIONAL LOSS)

TEMPORARY STREAM

N

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0

15

30

SCALE: 1 inch = 30 ft.

WR Job No. 0200458

DATE 10/25/23

DRN: WR

DGN: WR

CKD: WR

M

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