

REMOVAL /RELOCATE

CONSTRUCTION

- ⑤ New CBC Inlet Wingwall per ADOT Std Det B-04.30 Skew-0°, 4:1 SS
- ⑥ New (4) 10' x 5' CBC per ADOT Std Det B-02.45
- ⑦ New CBC Outlet Wingwall per ADOT Std Det B-04.10 Skew-0°, 4:1 SS
- ⑧ New Dumped Riprap Erosion Protection Apron
- ⑨ Channel Excavation for Trapezoidal Channel Varying Bottom Width, 3' Depth 6:1 Foreslope, 4:1 Backslope
- ⑩ Excavation for Trapezoidal Channel 12' Bottom Width 4' Depth, 2:1 SS
- ⑪ New Concrete Channel Bank Lining, 6" Thick Steel Reinforcement

NO.	REVISION	BY	DATE

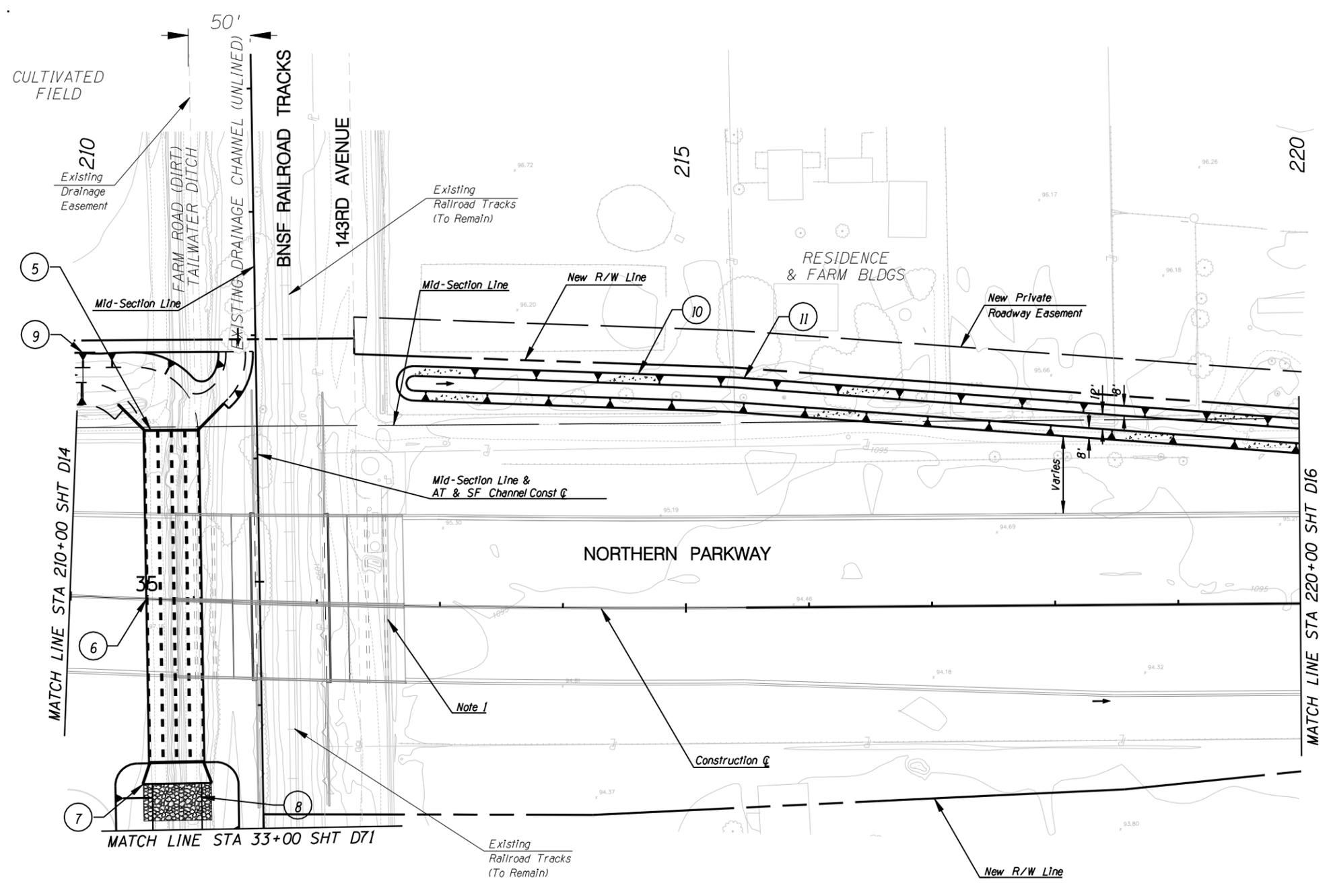
MARICOPA COUNTY  
DEPARTMENT OF TRANSPORTATION  
ENGINEERING DIVISION

NORTHERN PARKWAY  
LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 210+00 TO STA 220+00  
SHEET D15



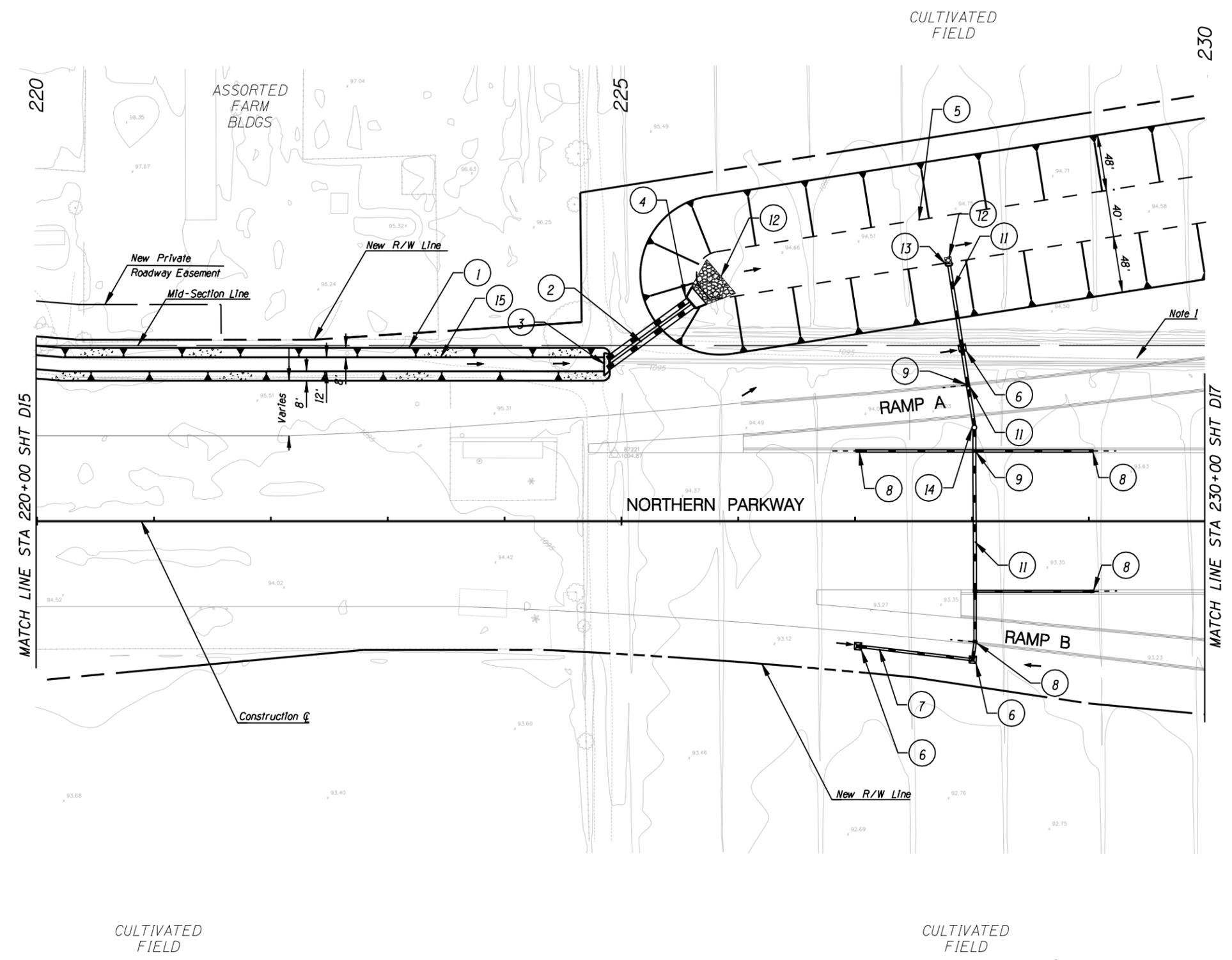
RESIDENCE  
& FARM BLDGS

**NOTES:**  
1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tail water ditches.



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F.W.H.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ.	T195	XX	XX	XXXX



REMOVAL /RELOCATE

CONSTRUCTION

- ① Channel Excavation for Trapezoidal Channel 12' Bottom Width, 4' Depth, 2:1 SS
- ② New (2) 48" Storm Drain
- ③ New Pipe Inlet Headwall (Double) Per ADOT Std Det B-11, 13 Skew-15°, 4:1 SS
- ④ New Pipe Outlet Headwall (Double) Per ADOT Std Det B-11, 12, 4:1 SS
- ⑤ Excavation for Detention Basin 12' Depth, 4:1 SS
- ⑥ New Area Catch Basin MAG Std Det 535, Type F
- ⑦ New 24" Storm Drain
- ⑧ New 24" Storm Drain w/ Catch Basin MAG Std Det 533-2 and 20' Slotted Drain
- ⑨ New Catch Basin MAG Std Det 533-2 and 40' Slotted Drain
- ⑩ New Catch Basin MAG Std Det 533-2 and 20' Slotted Drain
- ⑪ New 30" Storm Drain
- ⑫ New Dumped Riprap Erosion Protection Area
- ⑬ New Pipe Headwall per MAG Std Det 501-4
- ⑭ New Storm Drain Manhole
- ⑮ New Concrete Channel Bank Lining 6" Thick, Steel Reinforcement

NO.	REVISION	BY	DATE

MARICOPA COUNTY  
DEPARTMENT OF TRANSPORTATION  
ENGINEERING DIVISION

NORTHERN PARKWAY  
LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 220+00 TO STA 230+00

**NOTES:**  
1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tail water ditches.



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REMOVAL /RELOCATE

CONSTRUCTION

- ① Excavation for Retention Basin  
12' Depth, 4:1 SS
- ③ New 24" Storm Drain w/  
Catch Basin MAG Std Det 533-2  
and 20' Slotted Drain
- ④ New Area Catch Basin  
MAG Std Det 535, Type F
- ⑤ New 24" Storm Drain  
Bleedoff for Retention Basin
- ⑥ New Pipe Headwall  
MAG Std Det 501-4
- ⑦ Channel Excavation for  
Trapezoidal Channel  
12' Bottom Width, 3' Depth, 2:1 SS
- ⑧ New Concrete Channel Bank Lining  
6" Thick, Steel Reinforced
- ⑨ New Bleedoff Structure
- ⑩ New 24" Storm Drain
- ⑪ New 42" Storm Drain
- ⑭ New Storm Drain Manhole
- ⑮ New 24" Storm Drain w/ Catch Basin  
Mag Std Det 533-2

NO.	REVISION	BY	DATE

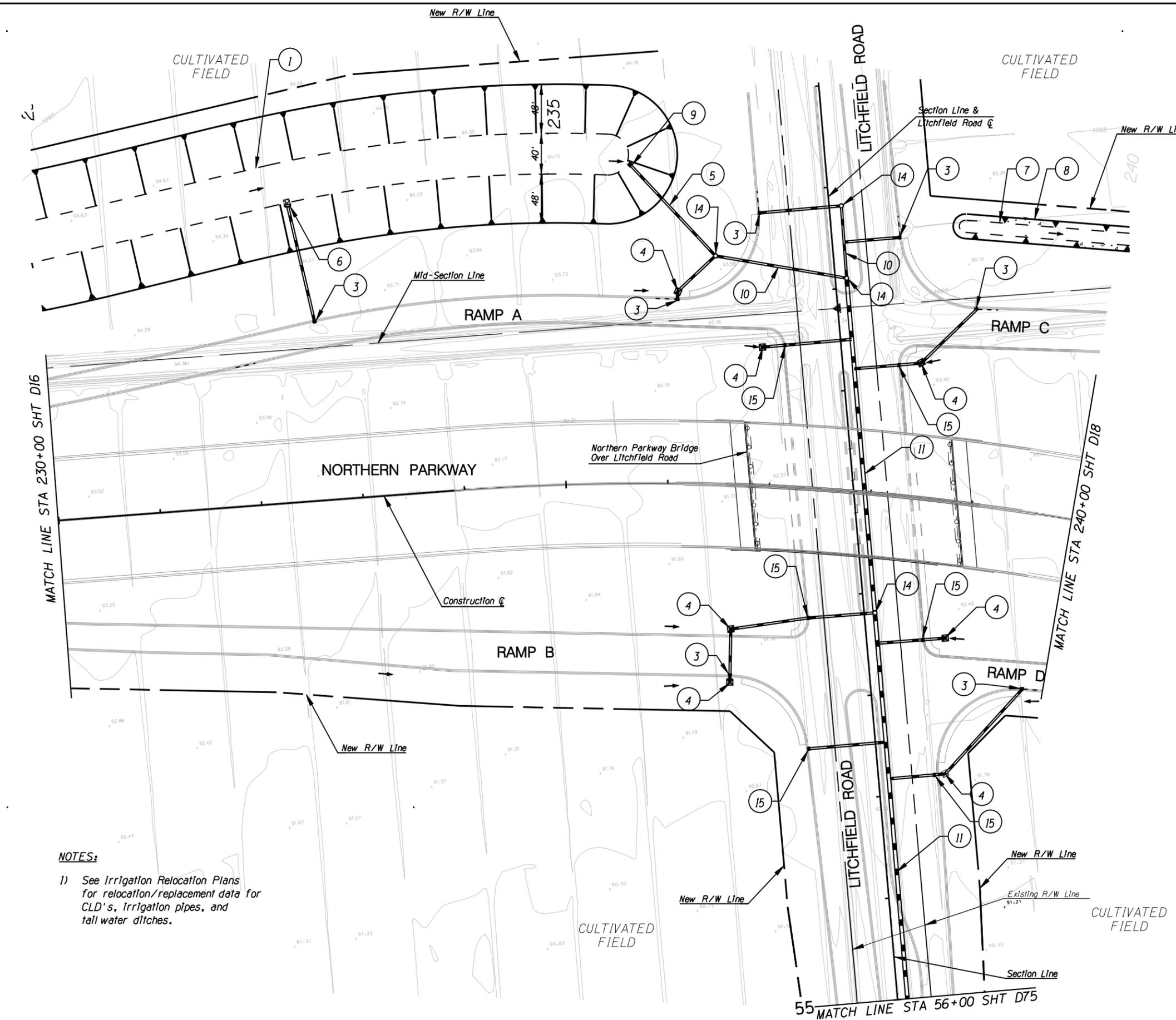
MARICOPA COUNTY  
DEPARTMENT OF TRANSPORTATION  
ENGINEERING DIVISION

NORTHERN PARKWAY  
LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08

**URS**

DRAINAGE PLAN SHEET  
STA 230+00 TO STA 240+00



**NOTES:**  
1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tail water ditches.

TWO WORKING DAYS  
BEFORE YOU DIG, CALL  
602-263-1100  
BLUE STAKE



REMOVAL /RELOCATE

CONSTRUCTION

- ① Channel Excavation for Trapezoidal Channel  
12' Bottom Width, 3' Depth,  
2:1 SS
- ② New Concrete Channel Bank Lining  
6" Thick, Steel Reinforced
- ③ Channel Excavation for Trapezoidal Channel  
12' Bottom Width, 3' Depth  
6:1 Foreslope, 4:1 Backslope
- ④ Channel Excavation for Channel Transition  
12' Bottom Width, 3' Depth  
Begin 2:1 SS, End 6:1 Foreslope, 4:1 Backslope
- ⑥ New 24" Storm Drain w/  
Catch Basin MAG Std Det 533-2  
and 20' Slotted Drain
- ⑦ New Storm Drain Manhole

NO.	REVISION	BY	DATE

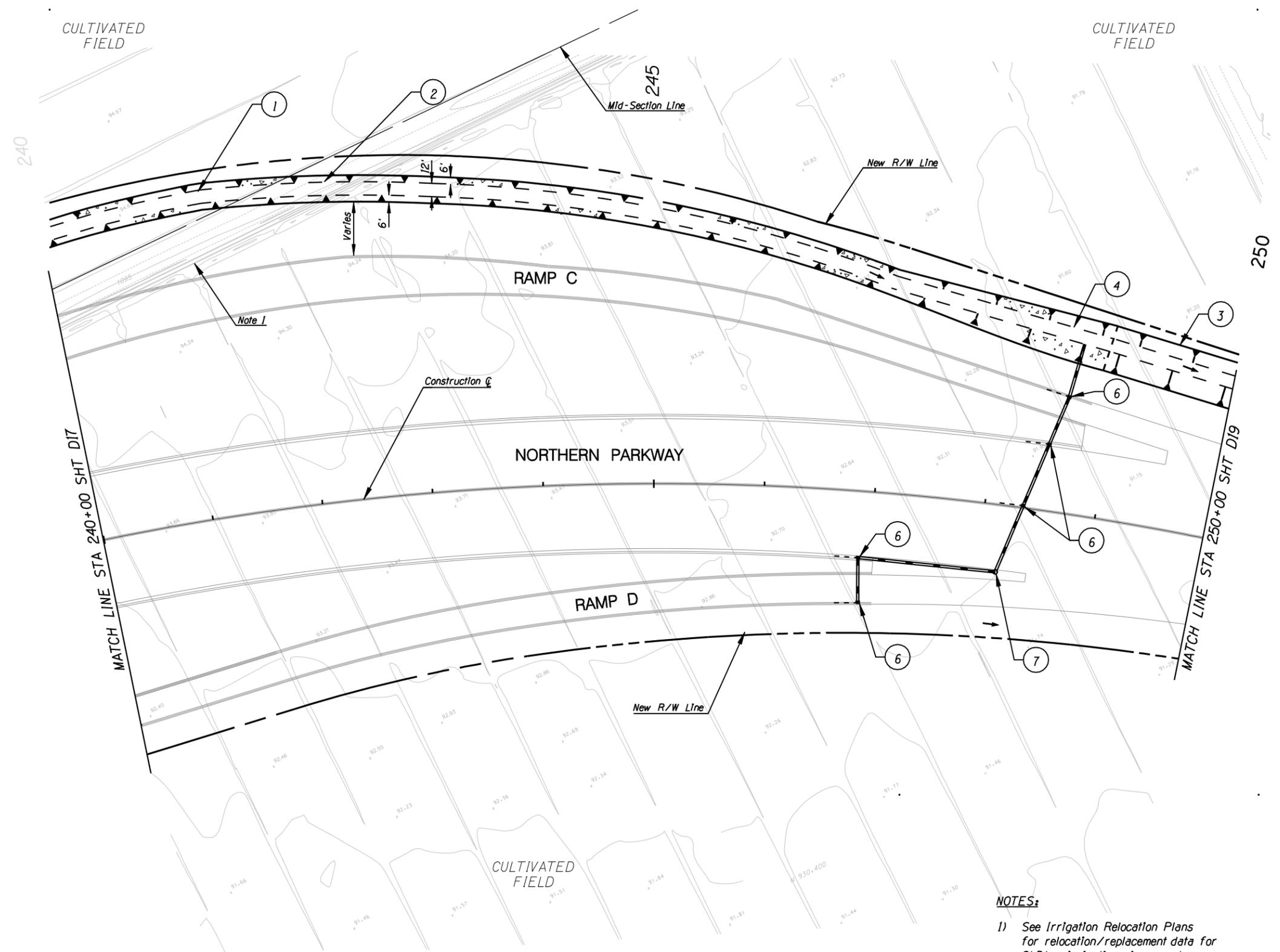
MARICOPA COUNTY  
DEPARTMENT OF TRANSPORTATION  
ENGINEERING DIVISION

NORTHERN PARKWAY  
LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 240+00 TO STA 250+00



**NOTES:**  
1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tail water ditches.



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REMOVAL /RELOCATE

CONSTRUCTION

- ① Channel Excavation for Trapezoidal Channel  
12' Bottom Width, 3' Depth,  
6:1 Foreslope, 4:1 Backslope
- ④ New 24" Storm Drain w/  
Catch Basin MAG Std Det 533-2  
and 20' Slotted Drain

NO.	REVISION	BY	DATE

**MARICOPA COUNTY**  
**DEPARTMENT OF TRANSPORTATION**  
**ENGINEERING DIVISION**

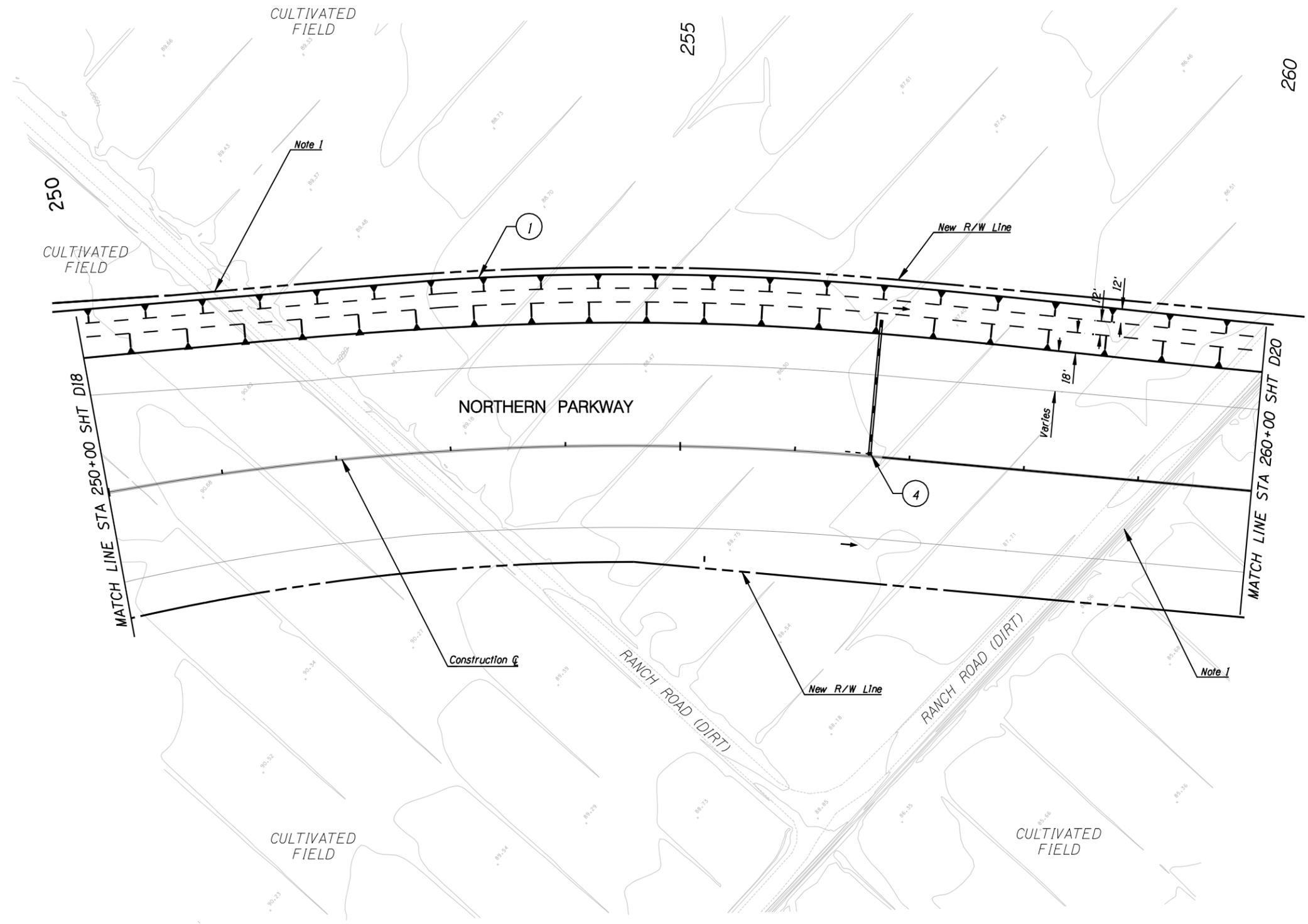
**NORTHERN PARKWAY**  
**LOOP 303 to GRAND AVENUE**  
**PROJECT NO. T195**

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 250+00 TO STA 260+00

SHEET  
D19



- NOTES:**
- 1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tall water ditches.



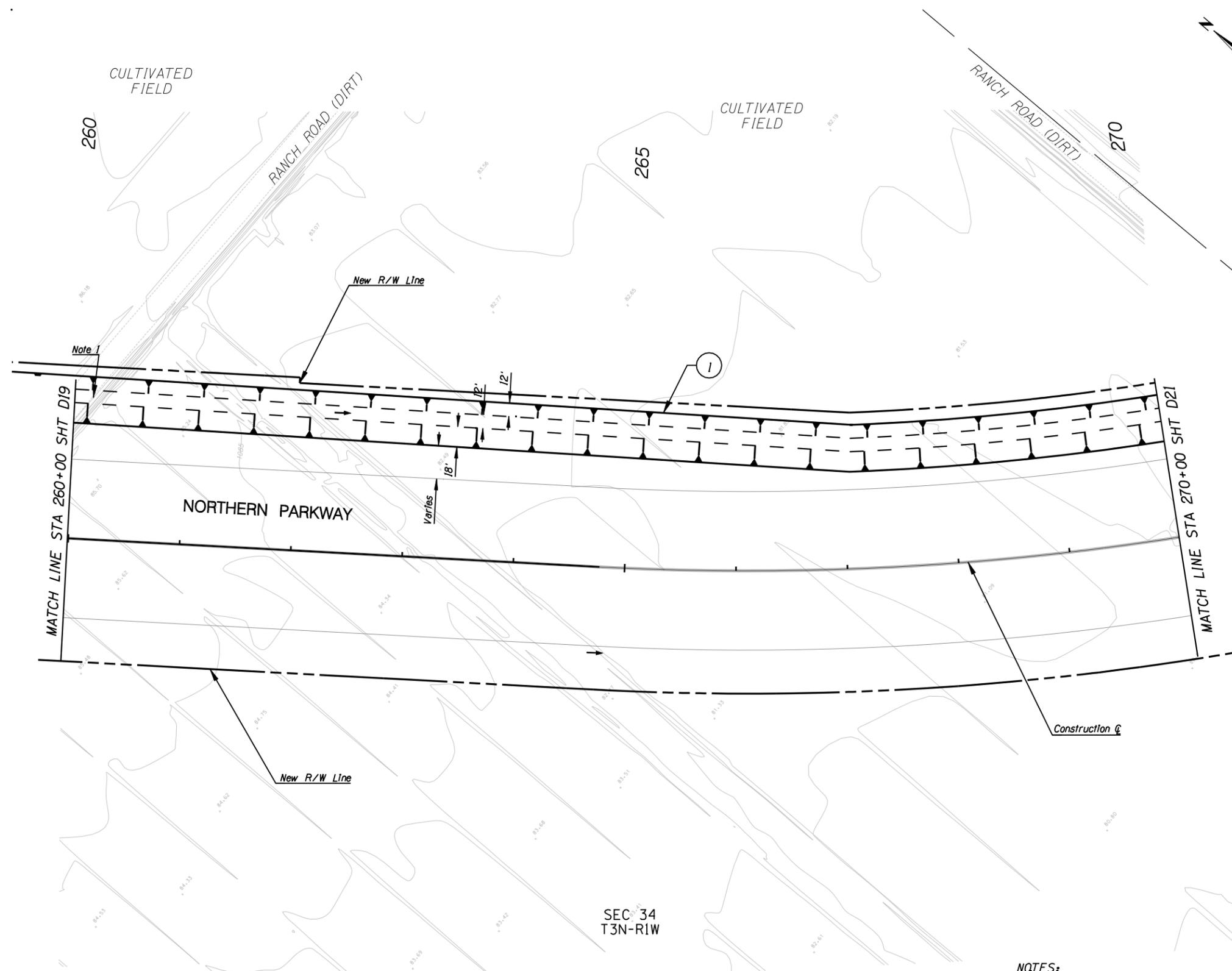
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REMOVAL /RELOCATE

CONSTRUCTION

① Channel Excavation for Trapezoidal Channel  
12' Bottom Width, 3' Depth  
6:1 Foreslope, 4:1 Backslope



SEC 34  
T3N-R1W

**NOTES:**

- 1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, irrigation pipes, and tail water ditches.

TWO WORKING DAYS  
BEFORE YOU DIG, CALL  
**602-263-1100**  
BLUE STAKE

NO.	REVISION	BY	DATE

**MARICOPA COUNTY**  
**DEPARTMENT OF TRANSPORTATION**  
ENGINEERING DIVISION

**NORTHERN PARKWAY**  
LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 260+00 TO STA 270+00

SHEET  
D20

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REMOVAL /RELOCATE

CONSTRUCTION

- ① Channel Excavation for Trapezoidal Channel 12' Bottom Width, 3' Depth, 6:1 Foreslope, 4:1 Backslope
- ③ New CBC Inlet Wingwall Level Wing ADOT Std Det B-08.10
- ④ New Concrete Channel Transition Start 6:1 Foreslope, End Vertical
- ⑤ New 10' X 4' CBC per ADOT Std Det B-02.20 Skew 45°
- ⑥ New CBC Outlet Wingwall per ADOT Std Det B-04.50 Skew 45°, 2:1 SS
- ⑦ Channel Excavation for Trapezoidal Channel 14' Bottom Width, 5' Depth, 2:1 SS
- ⑧ New Concrete Channel Bank Lining 6" Thick, Steel Reinforced
- ⑨ New Pipe Inlet Headwall per MAG Std Det 501-4
- ⑩ New Dumped RipRap Apron 2' Thick, D50=12"
- ⑪ New 48" Storm Drain
- ⑫ New Concrete Apron Around Curved Section

NO.	REVISION	BY	DATE

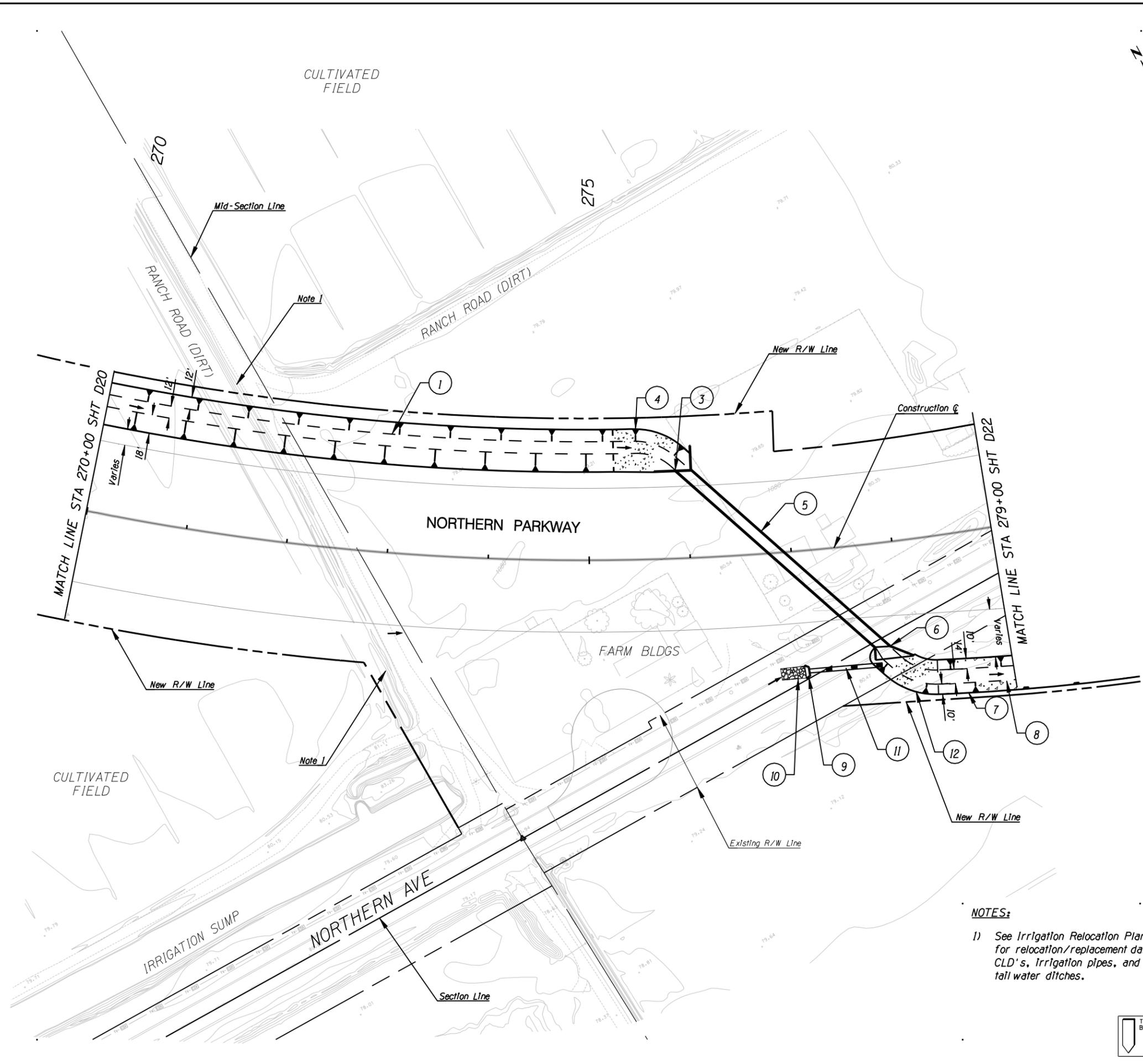
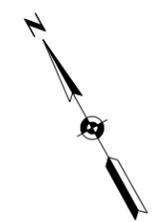
MARICOPA COUNTY  
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LOOP 303 to GRAND AVENUE  
PROJECT NO. T195

PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	D. STOUGH	1/08
	DRAWN	L. WAGNER	1/08
	CHECKED	R. MILES	1/08



DRAINAGE PLAN SHEET  
STA 270+00 TO STA 279+00



**NOTES:**  
1) See Irrigation Relocation Plans for relocation/replacement data for CLD's, Irrigation pipes, and tail water ditches.



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