

REV No.	Revision	Date

LOCATION MAP

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

CLIENT: HILLSBOROUGH COUNTY, FL



Stantec
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 ORLANDO, FLORIDA 32801
 PHONE: (407) 839-3955 FAX: (407) 839-3790



Garney CONSTRUCTION
 370 E CROWN POINT ROAD
 WINTER GARDEN, FLORIDA 34787

SCALE:	DATE:
SEC: 4,5&9	12/01/2016
TWP: 28S	REV NO:
RGE: 17E	INDEX NO:
PROJECT NO. 215612944	215612944
DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO: 1 OF 41

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GENERAL SITE CONSTRUCTION NOTES:

1. THE PURPOSE OF THIS PORTION OF THE PROJECT IS ECOLOGICAL ENHANCEMENT AND MITIGATION. THE CONTRACTORS WORKING ON THIS SITE SHALL TAKE GREAT CARE IN AVOIDING UNNECESSARY IMPACTS TO WETLANDS, VEGETATION, AND ANIMALS.
2. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK.
3. THE CONTRACTOR SHALL OBTAIN AND/OR VERIFY EXISTENCE OF ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS NOT FURNISHED BY THE OWNER.
4. PRIOR TO THE START OF CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770)", HILLSBOROUGH COUNTY PUBLIC UTILITIES DEPARTMENT, TAMPA ELECTRIC AND ANY OTHER UTILITIES (ELECTRIC, PHONE, GAS, CABLE, ETC.). IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
5. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS.
6. IF HUMAN REMAINS OR ARCHEOLOGICAL ARTIFACTS ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR MUST STOP WORK IMMEDIATELY AND PROMPTLY NOTIFY THE PROJECT MANAGER AND FLORIDA DEPARTMENT OF STATE DIVISION OF HISTORICAL RESOURCES.
7. THE CONTRACTOR SHALL NOT ENTER UPON, OR ALTER THE WETLAND PRESERVE AREAS THAT MAY BE ADJACENT TO THE PROJECT AREA. ALL WORK PERFORMED IN THE VICINITY OF OPEN WATER, WETLANDS, AND WETLAND HABITAT RESTORATIONS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM VIOLATION OF PERMIT CONDITIONS.
8. SURVEY INFORMATION AND LEGAL DESCRIPTIONS SHOWN HEREON WERE OBTAINED BY OTHERS. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT MAY HAVE BEEN ALTERED WITHOUT THE ENGINEER OF RECORD'S (EOR) KNOWLEDGE. THE CONTRACTOR SHALL VERIFY THIS INFORMATION AND BE FAMILIAR WITH ALL SITE CONDITIONS (INCLUDING SUB-SURFACE CONDITIONS AND UTILITIES) PRIOR TO COMMENCING THE WORK. DAMAGES TO ANY EXISTING FACILITIES (ABOVE-GROUND AND UNDERGROUND) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHETHER OR NOT SHOWN HEREON.
9. THE CONTRACTOR SHALL CLEAR AND GRUB TO REMOVE STUMPS, ROOTS, TREES, VEGETATION AND OBSTRUCTIONS TO THE WORK IN ALL AREAS DESIGNATED FOR SITE GRADING. ALL STUMPS, ROOTS, AND OTHER DEBRIS SHALL BE REMOVED FROM WITHIN THE CONSTRUCTION AREAS TO A DEPTH OF AT LEAST 1 FOOT BELOW THE PROPOSED GRADE.
10. ALL CLEARING, GRUBBING AND EXCAVATED MATERIAL WILL BE BURNED OR REMOVED FROM SITE AS DIRECTED BY PROJECT MANAGER.
11. ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
12. IMMEDIATELY BEFORE REQUESTING FINAL INSPECTIONS, THE CONTRACTOR SHALL CHECK ALL LINES AND DRESS TO THE PROPER GRADES/CONTOURS. ALL AREAS ARE TO BE STABILIZED AND MAINTAINED UNTIL ACCEPTANCE. WHEN UPLAND AND WETLAND PLANTING AREAS ARE INDICATED ON DRAWINGS OR SPECIFIED, THE CONTRACTOR SHALL MAKE ALLOWANCES WHEN ROUGH GRADING FOR THE FINISHED GRADES IN THESE AREAS.
13. POST GRADING SOIL CONDITIONS SHALL BE APPROPRIATE FOR PLANTING WITH LIMITED COMPACTION AS DETERMINED BY PROJECT ECOLOGIST.
14. ANY DISTURBED AREAS ABOVE MEAN HIGH WATER, NOT HARDSCAPED OR LANDSCAPED, WILL BE SEEDED/MULCHED, HYDROSEEDDED, SODDED OR PLANTED WITH MATERIALS AS SPECIFIED.
15. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE NPDES STORMWATER PERMITTING FOR CONSTRUCTION ACTIVITIES FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR THE APPLICABLE PERMITTING APPLICATION AND SUPPORTING DOCUMENTATION.
16. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL USACE, SWFWMD, AND FDEP PERMITTING CONDITIONS.
17. UPON COMPLETION OF CONSTRUCTION, GRASSED AREAS ARE TO BE MAINTAINED TO AVOID BARE EARTH CONDITIONS WHICH INCREASE THE POTENTIAL FOR EROSION.
18. ELEVATIONS SHOWN ARE BASED ON FEET, NORTH AMERICAN DATUM 1988 (NAVD88).
19. AERIAL PHOTOGRAPHY 2014 HILLSBOROUGH COUNTY
20. CONTOUR LINES SHOWN DEVELOPED FROM 2016 FIELD COLLECTED TOPOGRAPHY DATA.
21. FOR INFORMATION REGARDING WETLAND ENHANCEMENT AREA, PLEASE REFER TO MITIGATION PLAN OF THE ENVIRONMENTAL REPORT.

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			SEC: 4,5&9	TWP: 28S	RGE: 17E	REV NO:
			PROJECT NO. 215612944	INDEX NO: 215612944		
			DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO: 3 of 41		

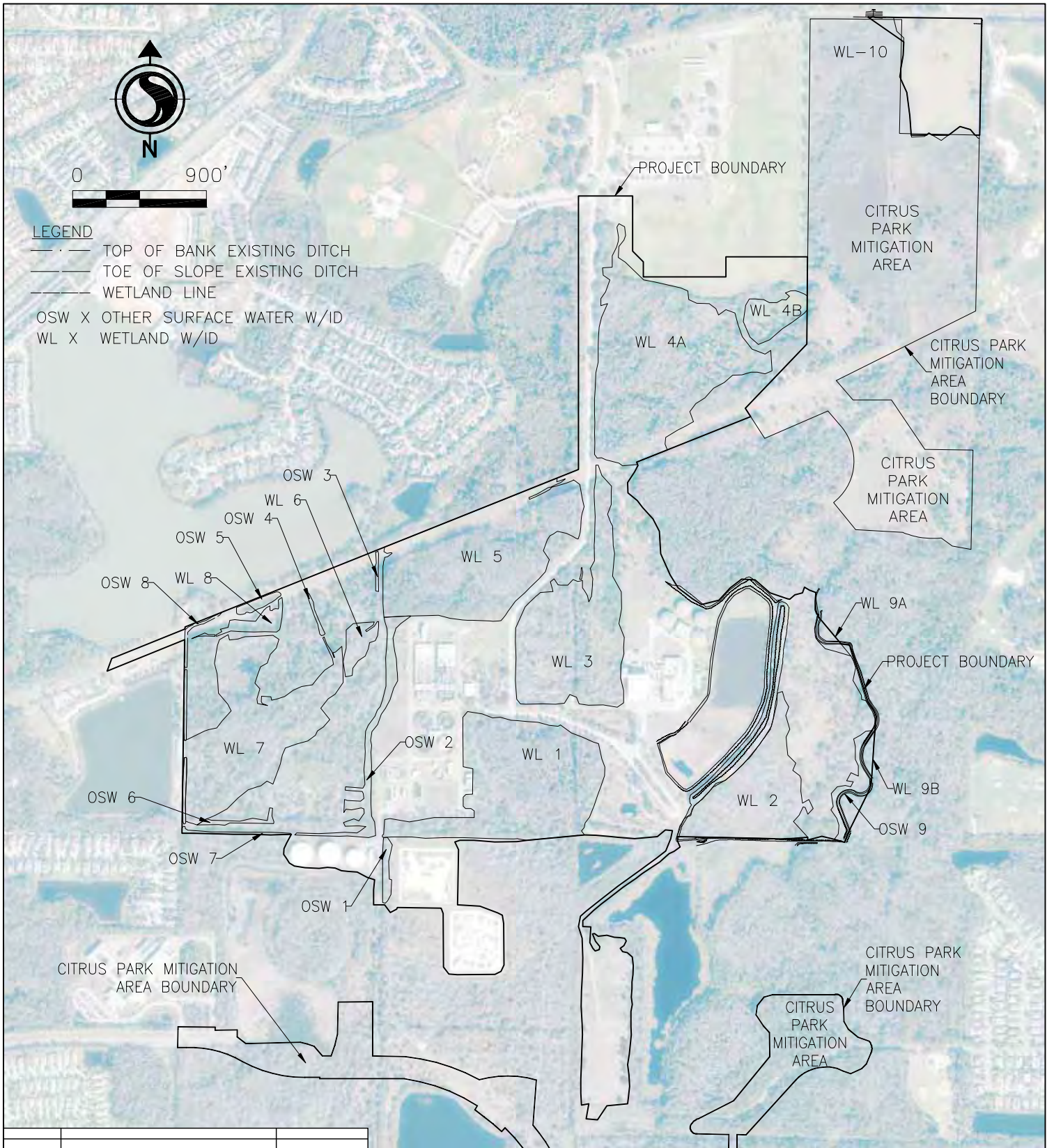
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LEGEND

- TOP OF BANK EXISTING DITCH
- TOE OF SLOPE EXISTING DITCH
- WETLAND LINE
- OSW X OTHER SURFACE WATER W/ID
- WL X WETLAND W/ID



REV No.	Revision	Date

AERIAL LOCATION MAP

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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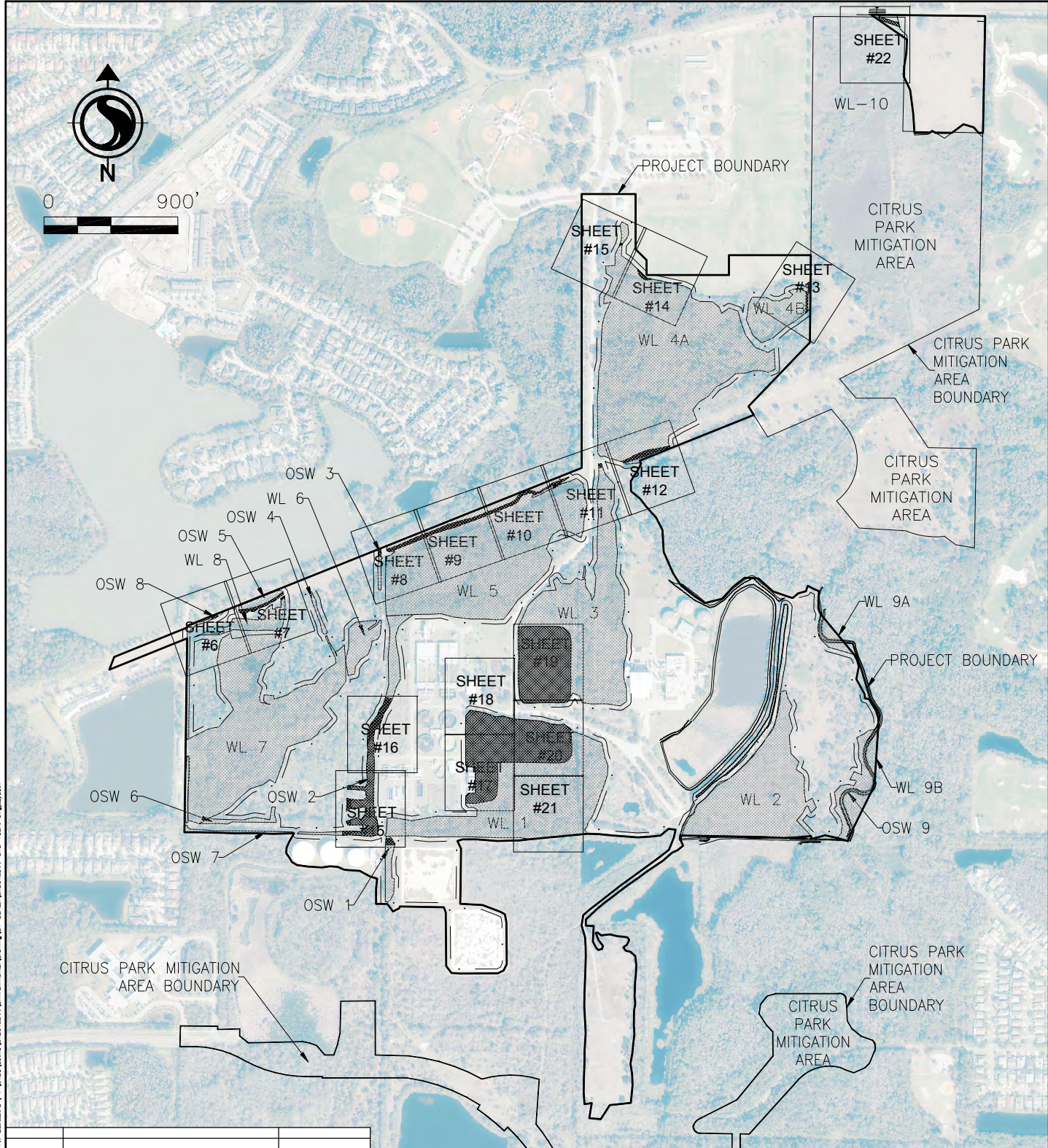
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 WINTER GARDEN, FLORIDA 34787

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DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO. 4 OF 41

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REV No.	Revision	Date

IMPACT PLAN KEY SHEET

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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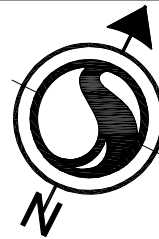
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Wharson-Smith, Inc.
 CONSTRUCTION GROUP
 Building Solutions for a Sustainable Future

SCALE:		DATE: 12/01/2016	
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PROJECT NO. 215612944		INDEX NO. 215612944	
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OSW IMPACT
OSW8-1

PROJECT BOUNDARY

305+00

306+00

307+00

308+00

309+00

30' WETLAND
CONSERVATION
AREA SETBACK (TYP.)

WETLAND
CONSERVATION
AREA (WL 8)

MATCHLINE SHEET 6

MATCHLINE SHEET 7

REV No.	Revision	Date

IMPACT PLAN

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

CLIENT: HILLSBOROUGH COUNTY, FL



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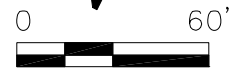


Garney
CONSTRUCTION
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WINTER GARDEN, FLORIDA 34787



Wharton-Smith, Inc.
ENGINEERS - ARCHITECTS
Building solutions for a sustainable future

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PROJECT NO. 215612944	INDEX NO. 215612944		
DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO. 6 OF 41		



PROJECT BOUNDARY

WETLAND CONSERVATION
AREA (OSW 5)

OSW IMPACT
OSW5-1

WETLAND IMPACT
WL8-1

WETLAND CONSERVATION
AREA (WL 8)

30' WETLAND
CONSERVATION
AREA SETBACK
(TYP.)

MATCHLINE SHEET 6
MATCHLINE SHEET 7

REV No.	Revision	Date	IMPACT PLAN

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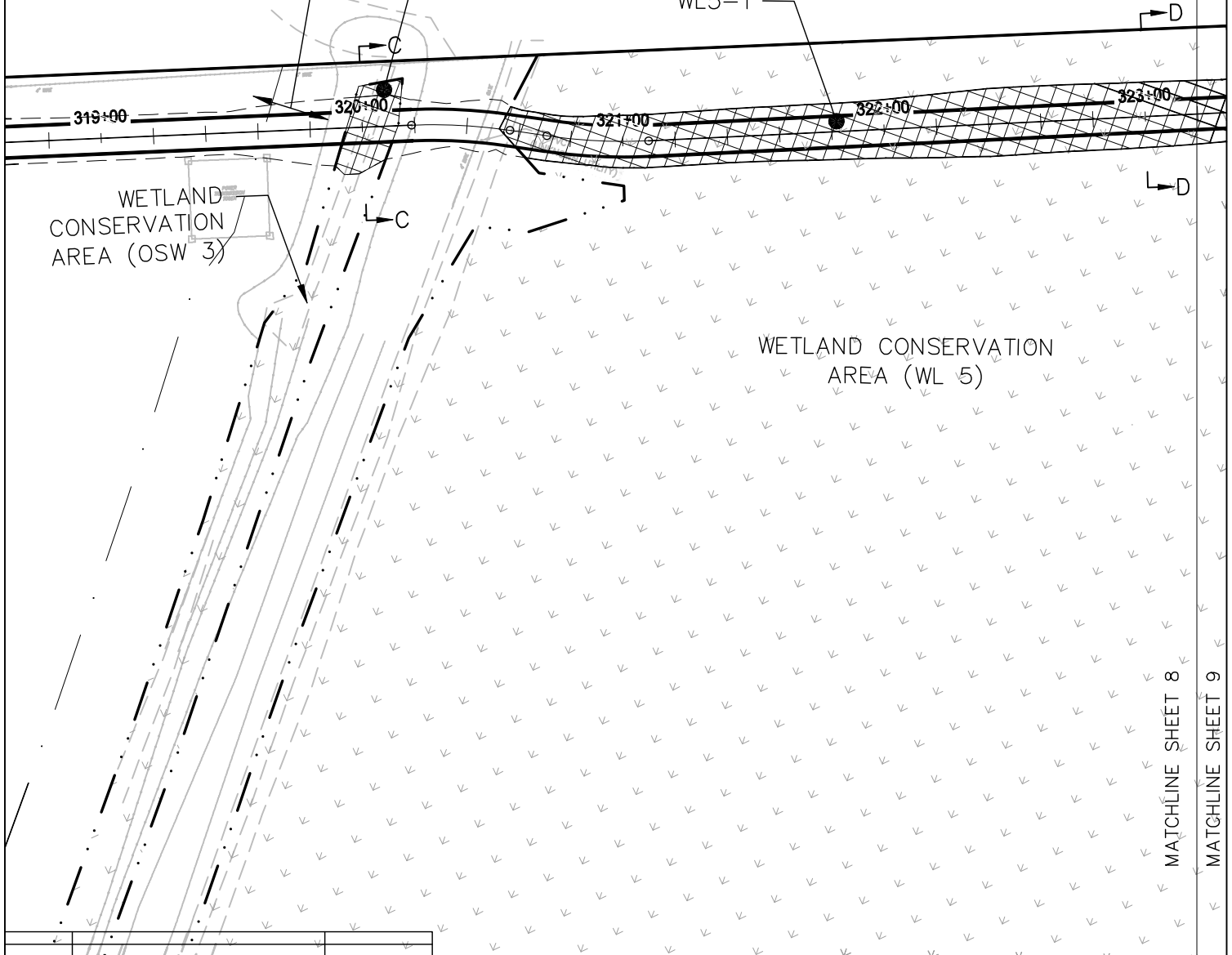
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PROJECT NO. 215612944	INDEX NO. 215612944		
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30' WETLAND
CONSERVATION
AREA SETBACK (TYP.)

OSW IMPACT
OSW3-1

WETLAND IMPACT
WL5-1



MATCHLINE SHEET 8

MATCHLINE SHEET 9

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Garney CONSTRUCTION
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Wharton-Smith, Inc.
EXPOSURE TO THE ELEMENTS
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PROJECT BOUNDARY

WETLAND IMPACT
WL5-1



WETLAND CONSERVATION
AREA (WL-5)

MATCHLINE SHEET 8

MATCHLINE SHEET 9

MATCHLINE SHEET 9

MATCHLINE SHEET 10

REV No.	Revision	Date

IMPACT PLAN

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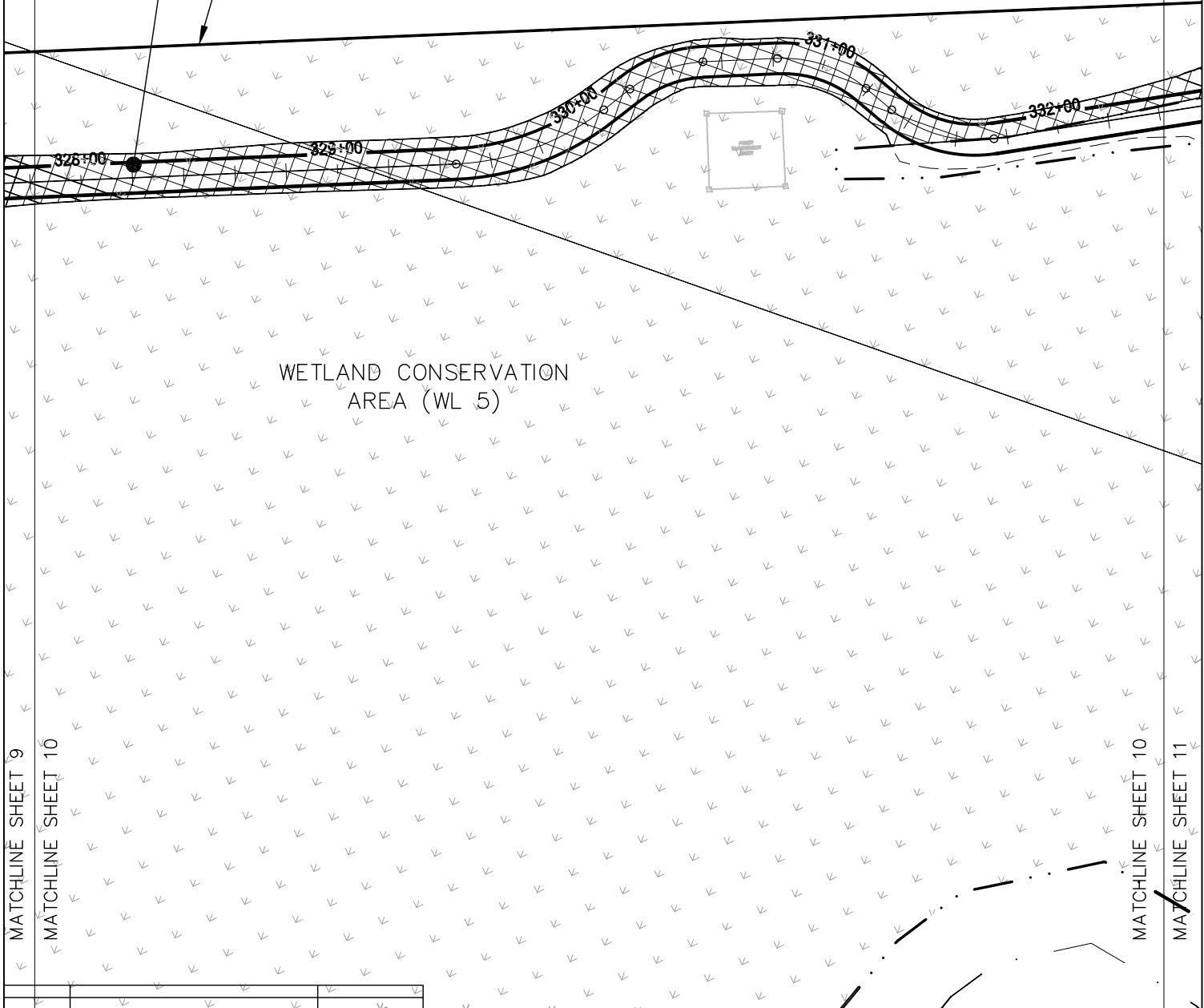
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WETLAND IMPACT
WL5-1

PROJECT BOUNDARY



MATCHLINE SHEET 9

MATCHLINE SHEET 10

MATCHLINE SHEET 10

MATCHLINE SHEET 11

REV No.	Revision	Date

IMPACT PLAN

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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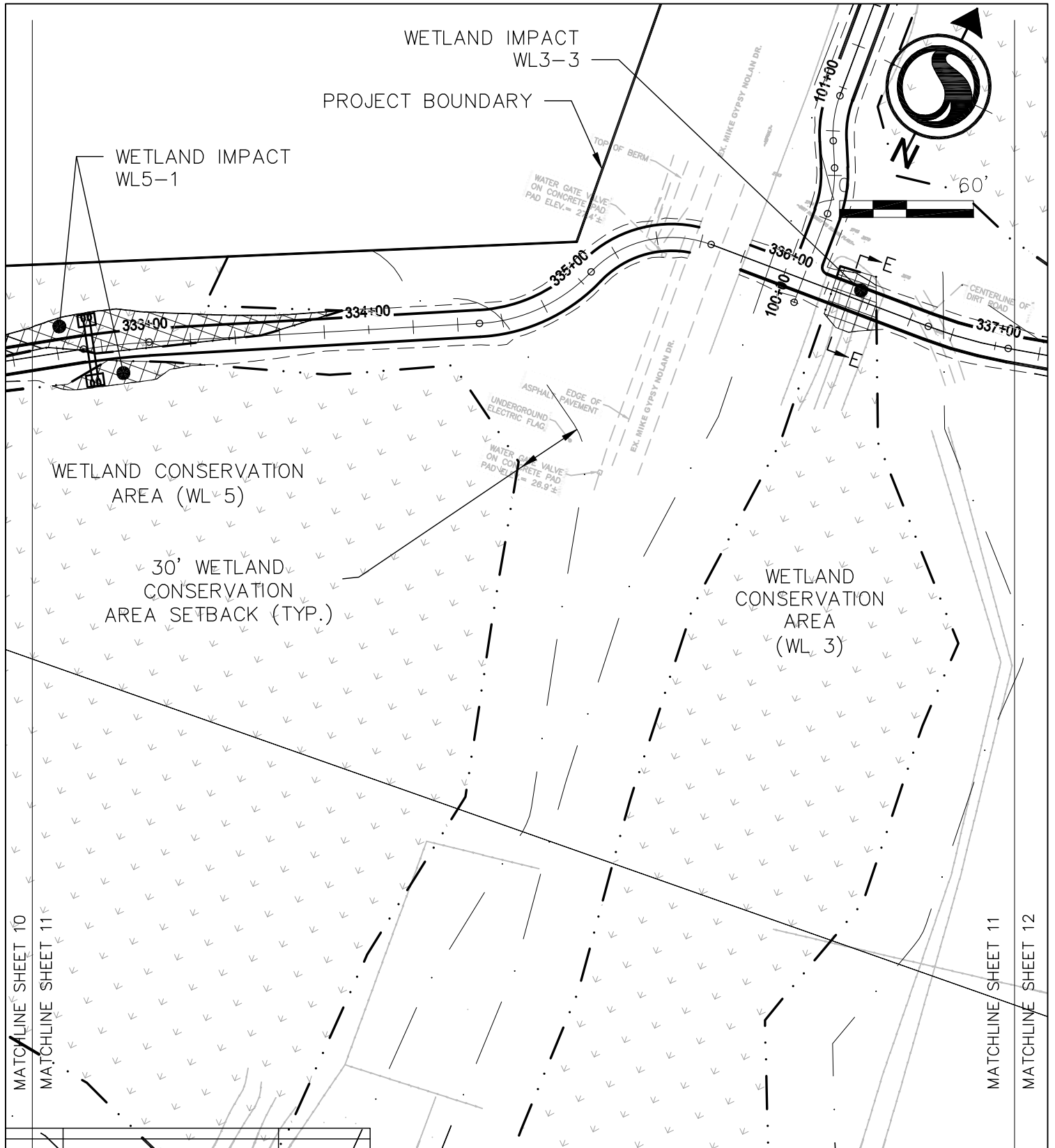


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EXPOSURE-TREATMENT
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IMPACT PLAN

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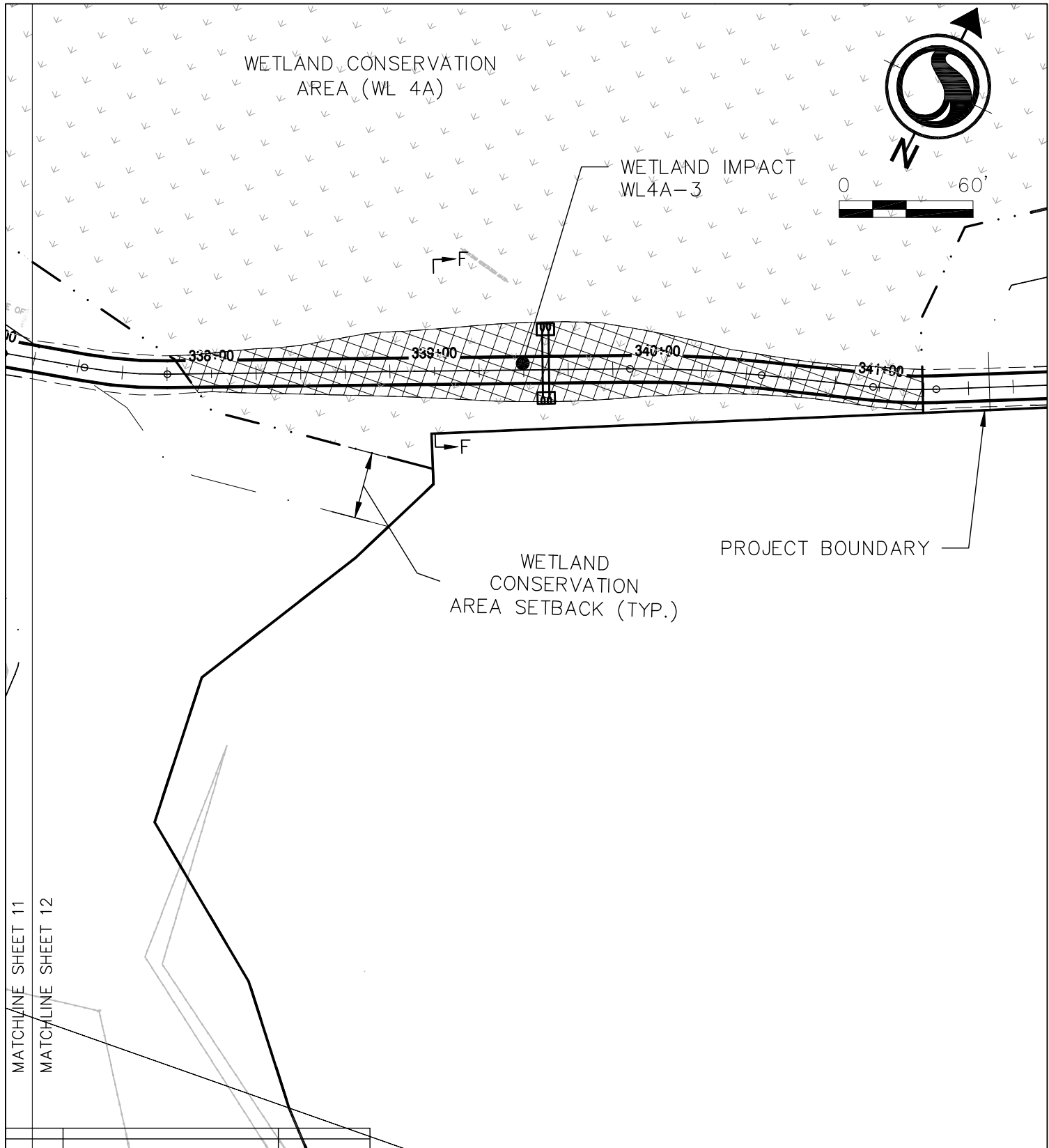
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REV No.	Revision	Date	IMPACT PLAN
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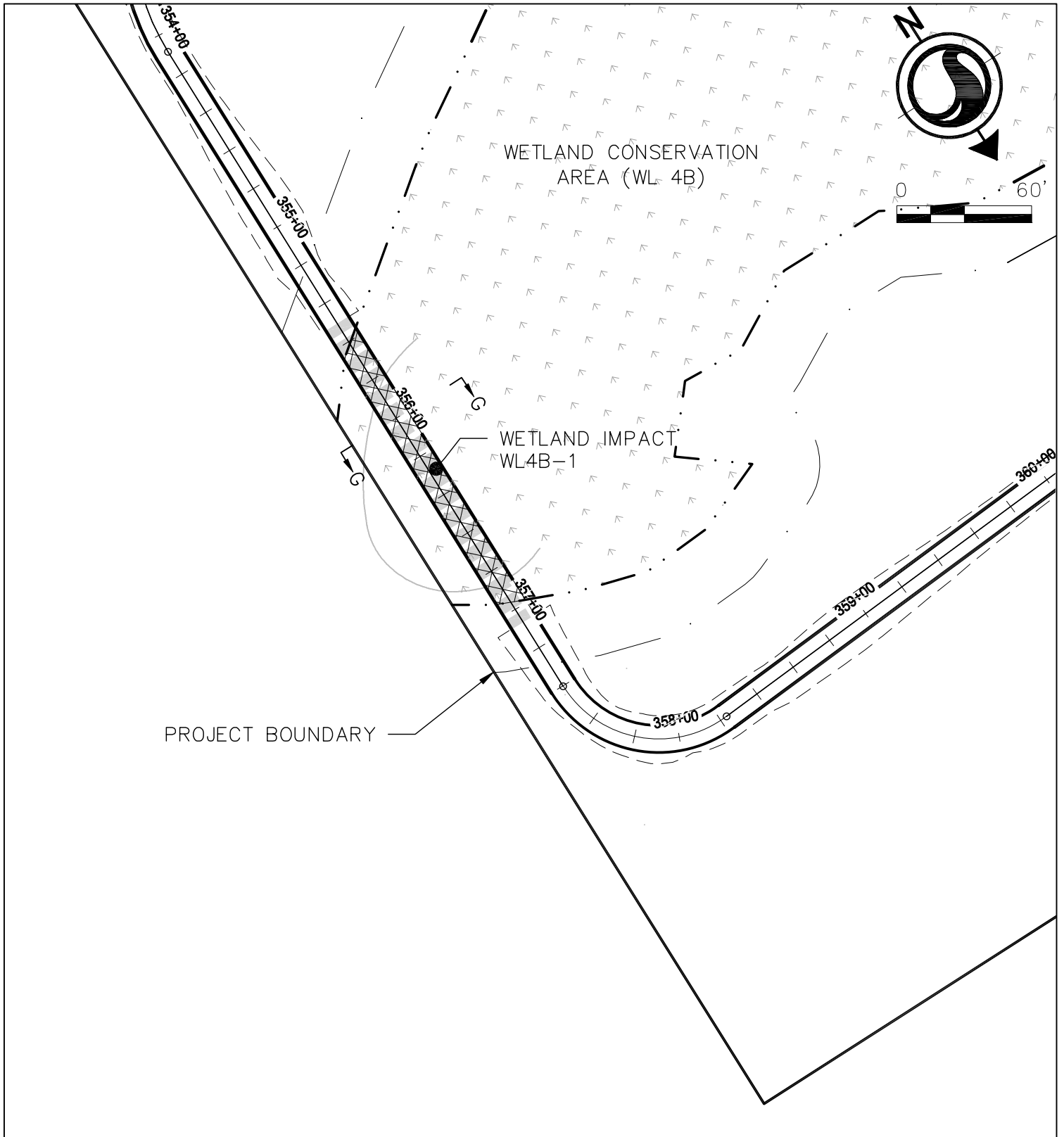


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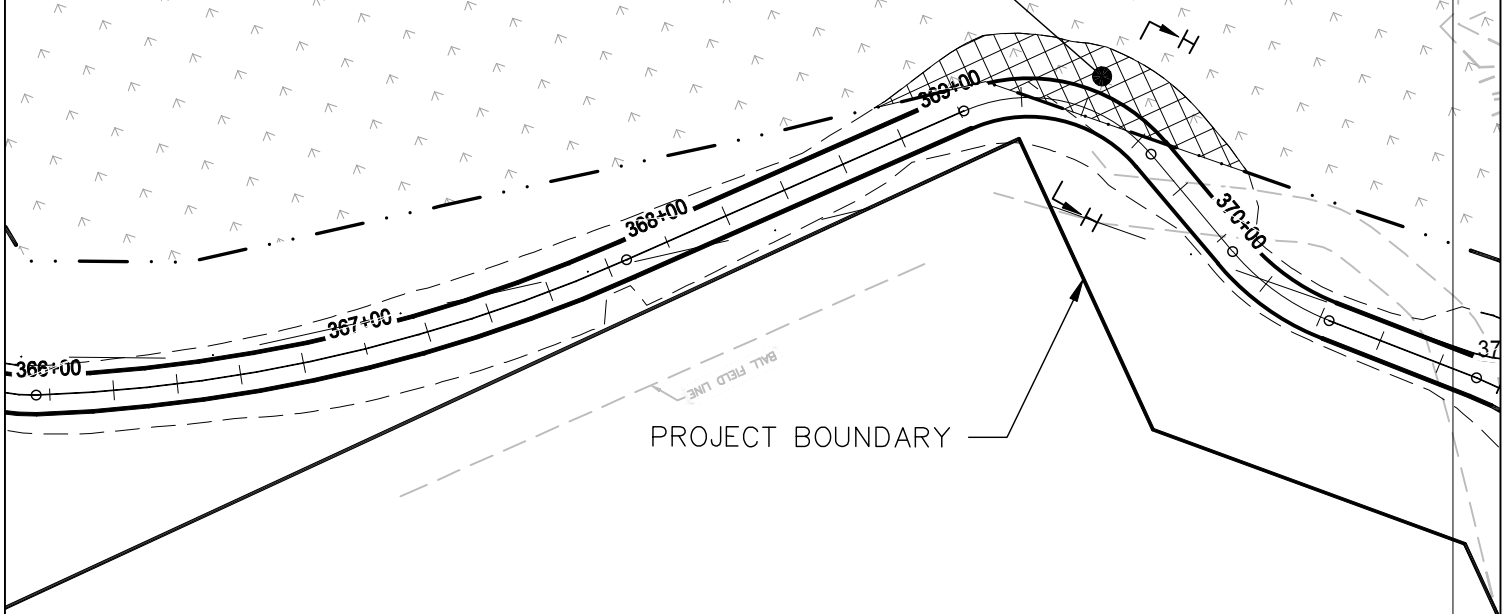
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WETLAND CONSERVATION
AREA (WL 4A)



WETLAND IMPACT
WL4A-2 AND WL4A-4



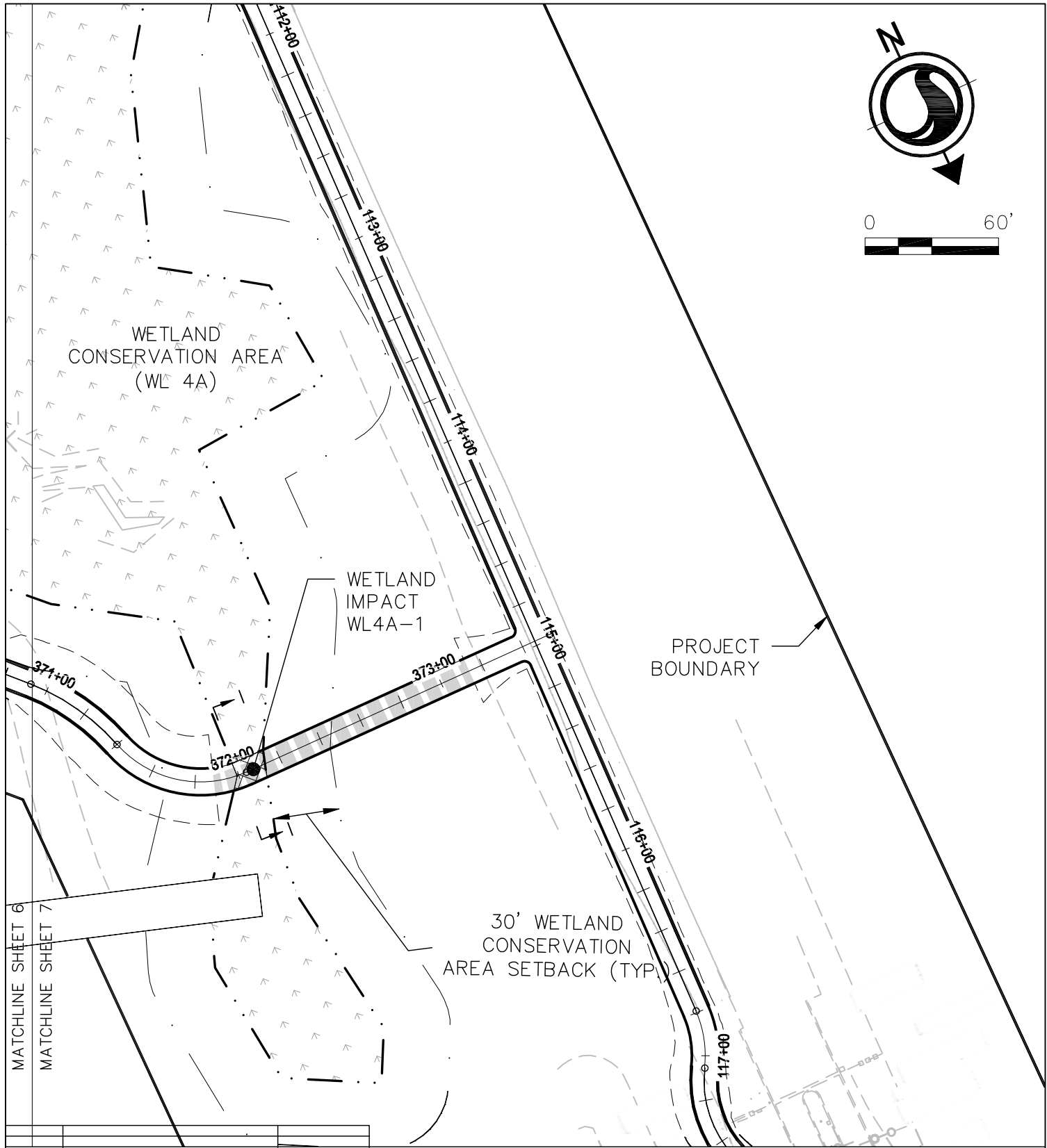
MATCHLINE SHEET 14
MATCHLINE SHEET 15

REV No.	Revision	Date	IMPACT PLAN
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			SEC: 4,5&9	TWP: 28S	RGE: 17E	12/01/2016
			PROJECT NO. 215612944			INDEX NO: 215612944
			DRWN BY/EMP NO. A.SALAZAR/102871			SHEET NO: 14 OF 41



REV No.	Revision	Date	IMPACT PLAN
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PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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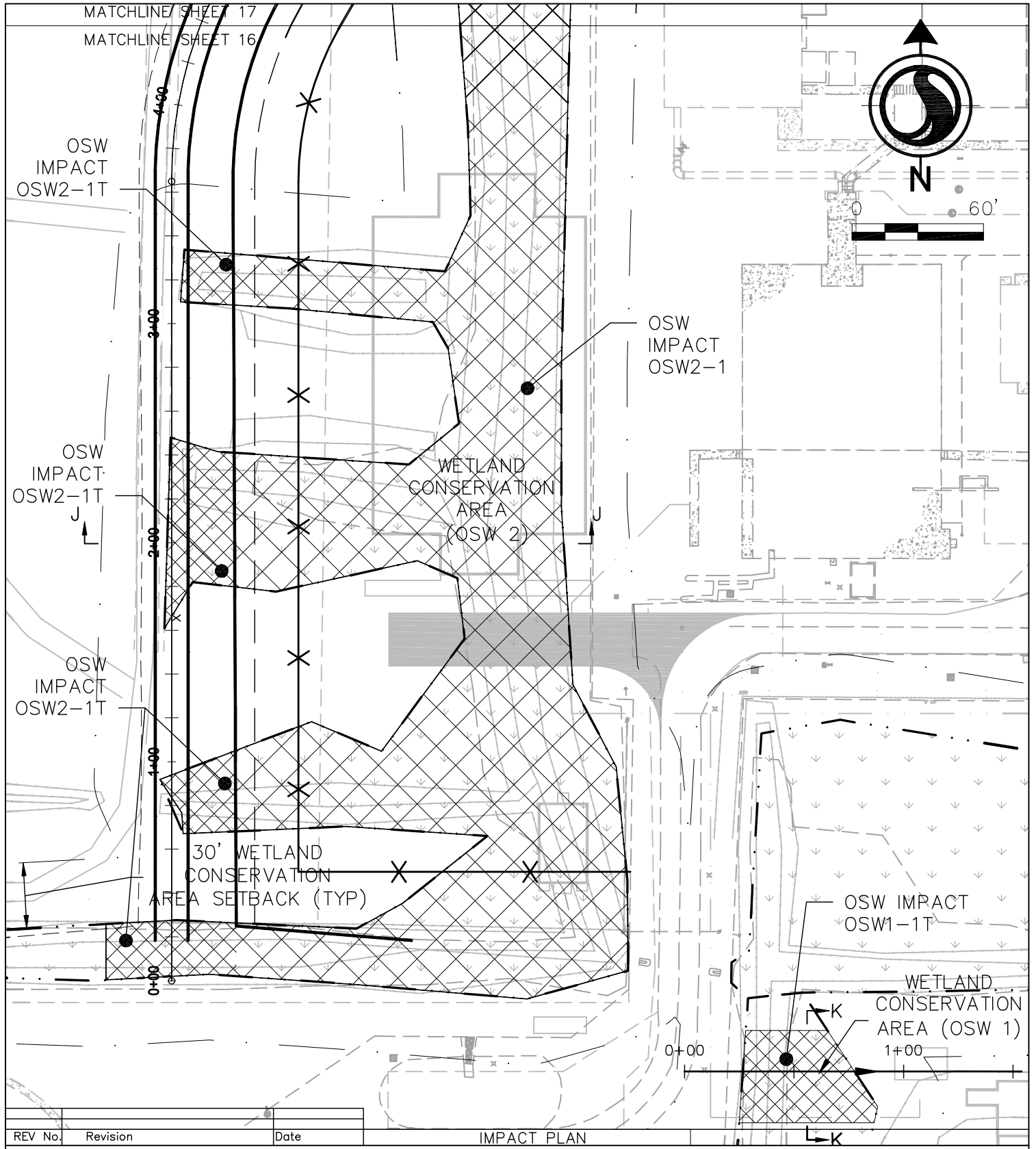


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SCALE:		DATE: 12/01/2016	
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DRWN BY/EMP NO. A.SALAZAR/102871		SHEET NO. 15 OF 41	



REV No.	Revision	Date	IMPACT PLAN
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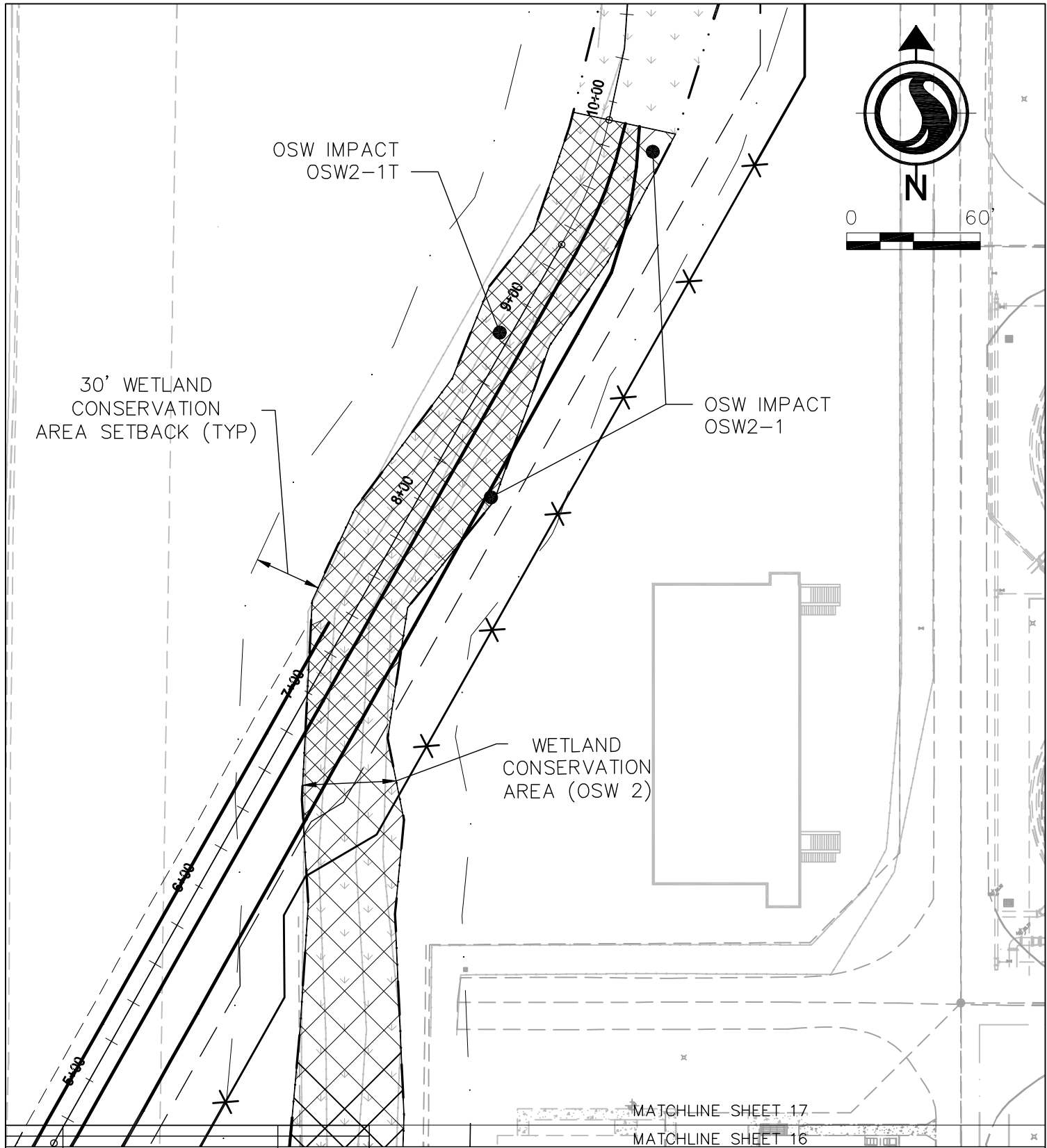
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SCALE:	DATE:		
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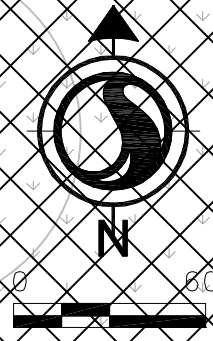
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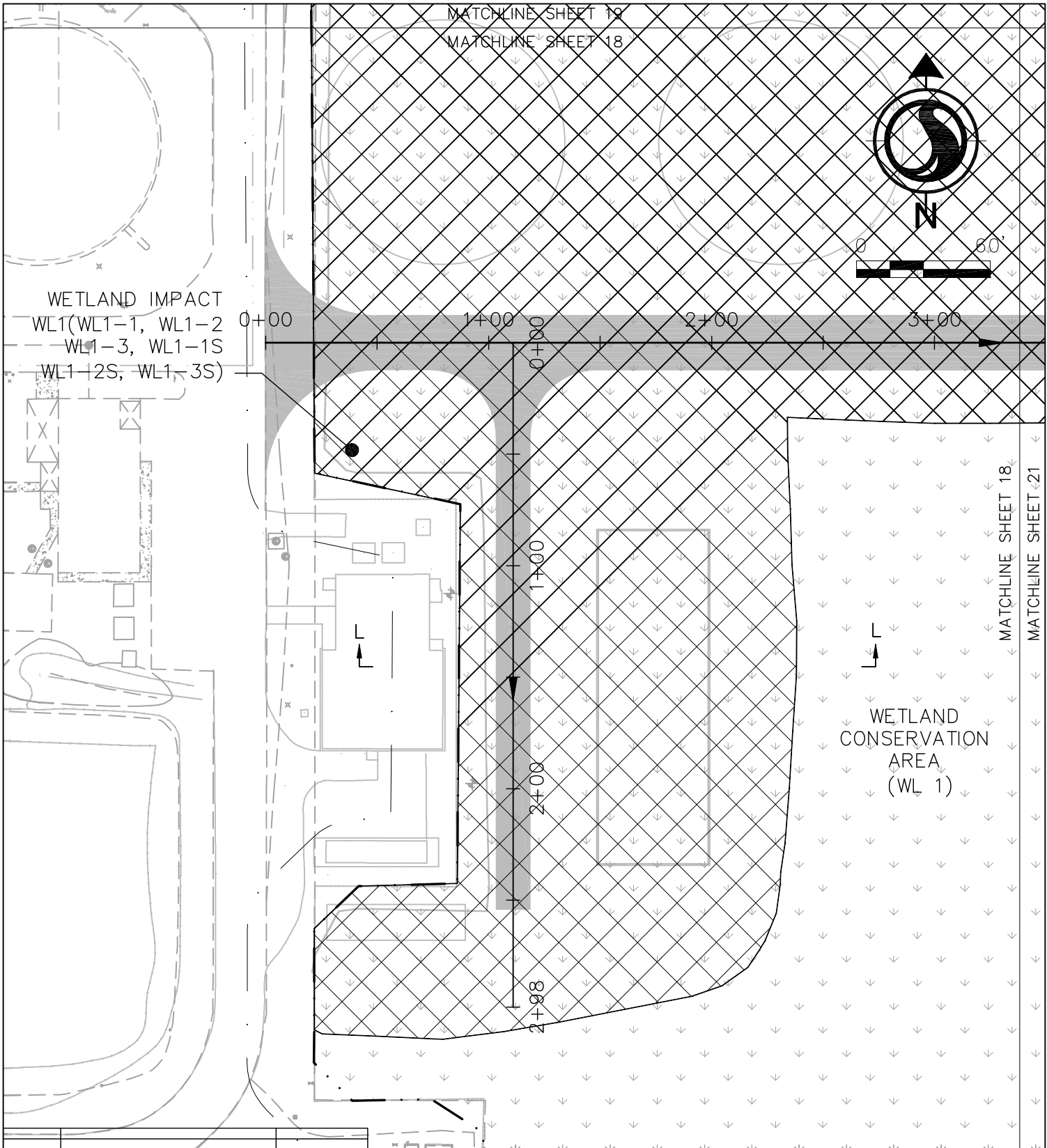
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MATCHLINE SHEET 19
MATCHLINE SHEET 18



WETLAND IMPACT
WL1(WL1-1, WL1-2
WL1-3, WL1-1S
WL1-2S, WL1-3S)

0+00 1+00 2+00 3+00



MATCHLINE SHEET 18
MATCHLINE SHEET 21

WETLAND
CONSERVATION
AREA
(WL 1)

REV No.	Revision	Date	IMPACT PLAN
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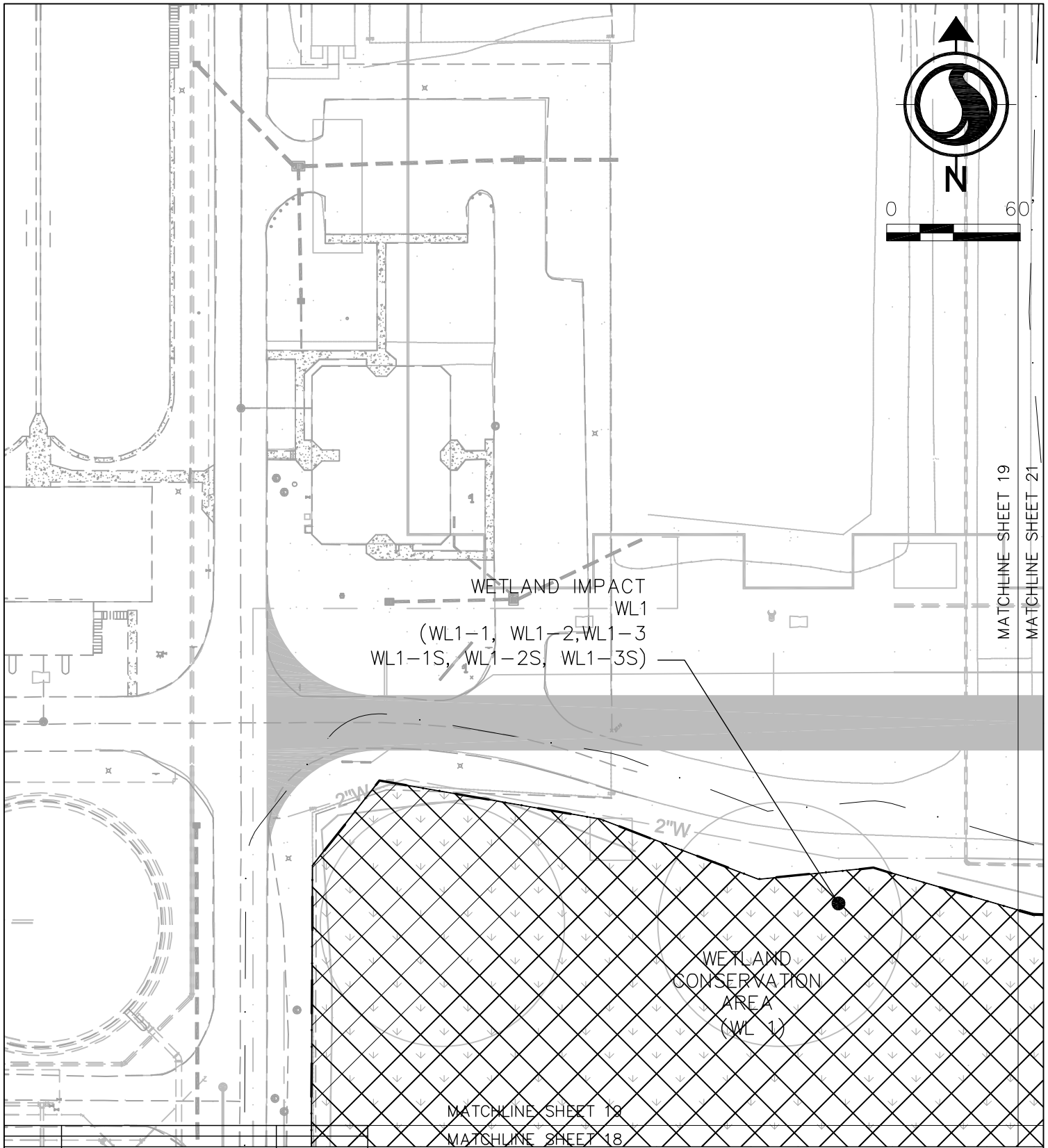
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SCALE:	DATE:
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PROJECT NO. 215612944	REV NO:
DRWN BY/EMP NO. A.SALAZAR/102871	INDEX NO: 215612944
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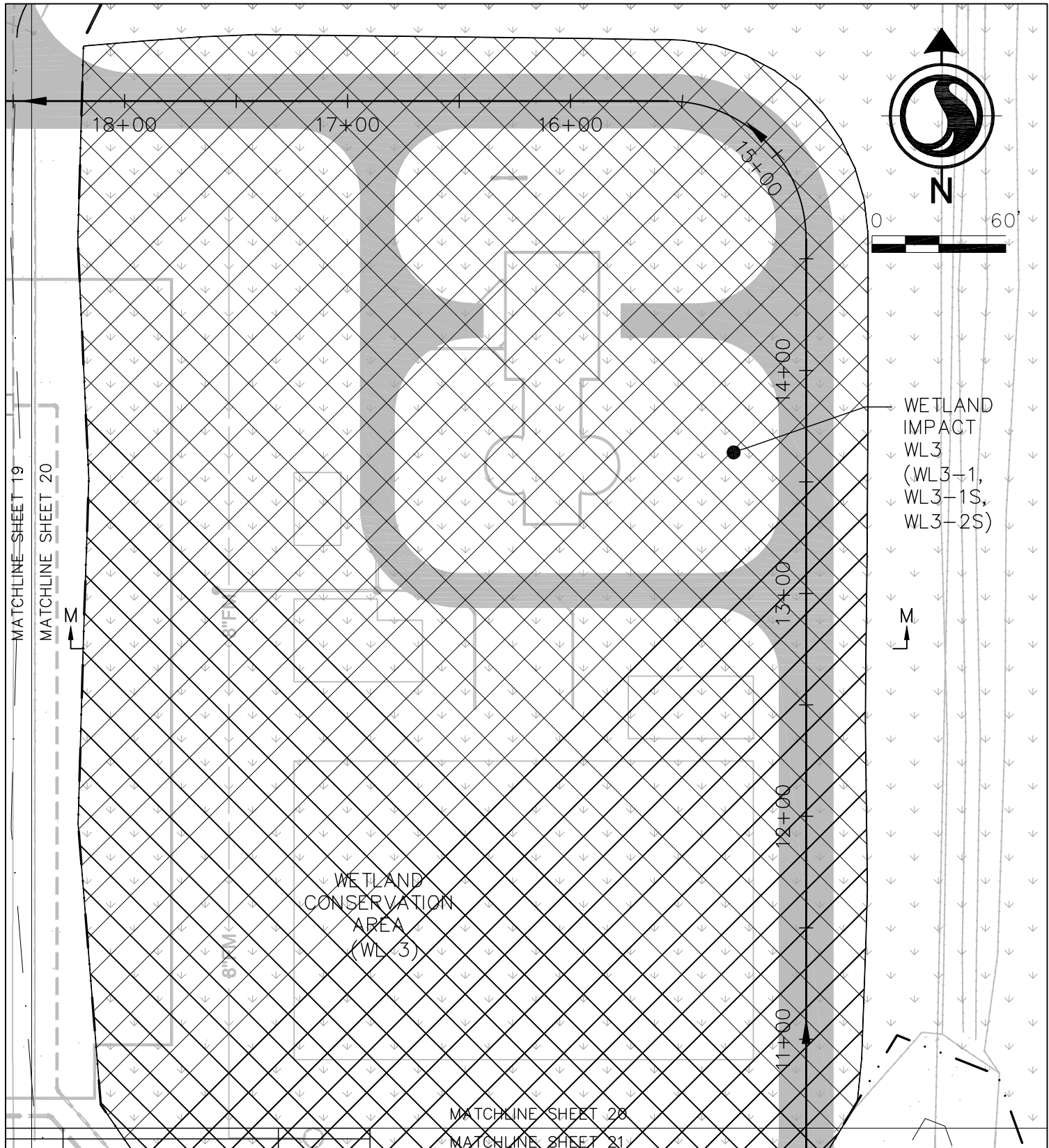


REV No.	Revision	Date	MATCHLINE SHEET 18	MATCHLINE SHEET 19	MATCHLINE SHEET 21
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PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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			DRWN BY/EMP NO. A.SALAZAR/102871			SHEET NO: 19 OF 41



REV No.	Revision	Date	IMPACT PLAN
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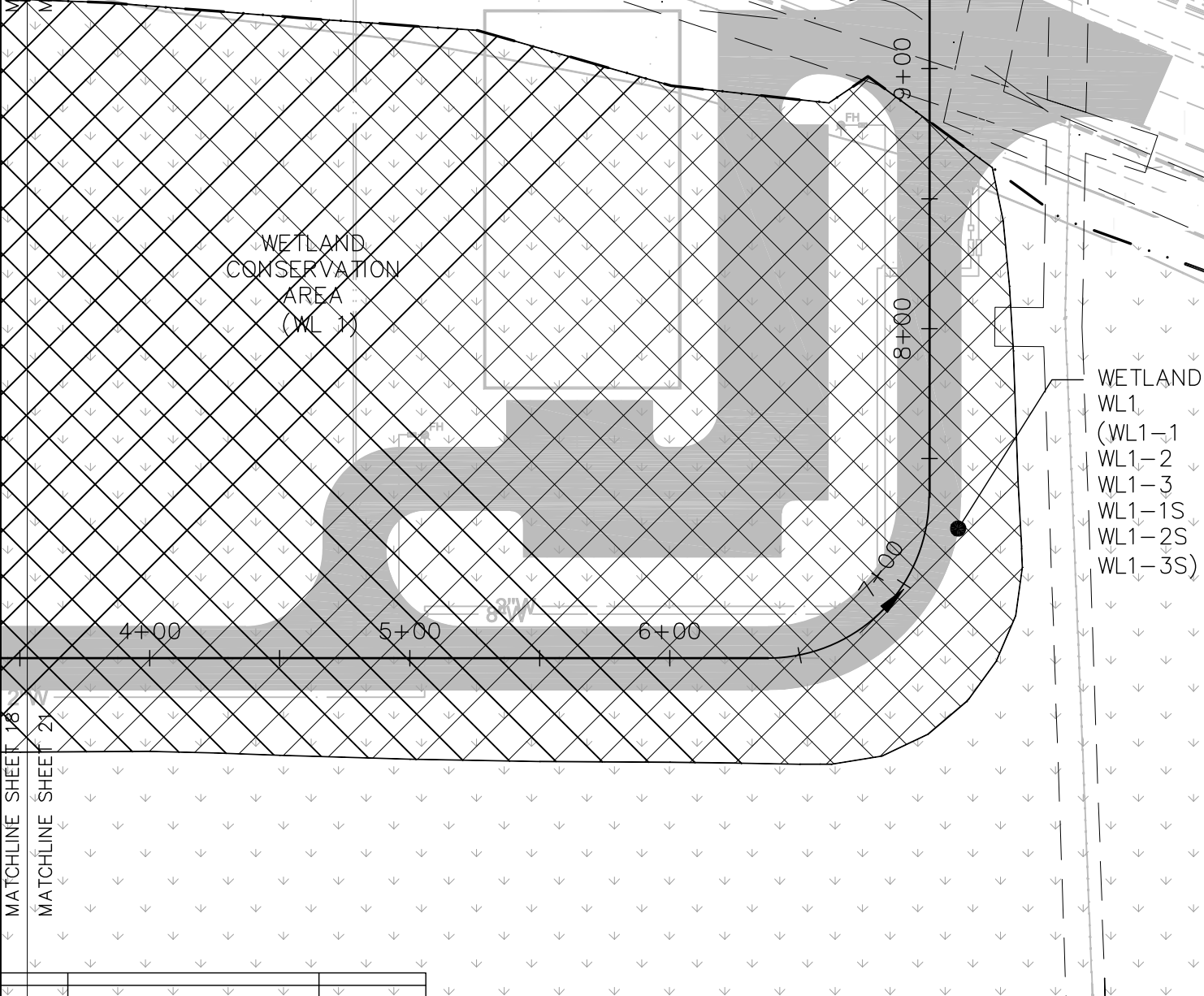
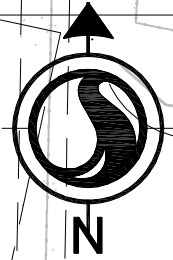
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SCALE:	DATE:
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MATCHLINE SHEET 20
MATCHLINE SHEET 21

MATCHLINE SHEET 19
MATCHLINE SHEET 21



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IMPACT PLAN

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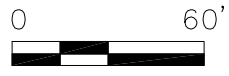
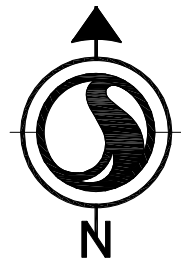


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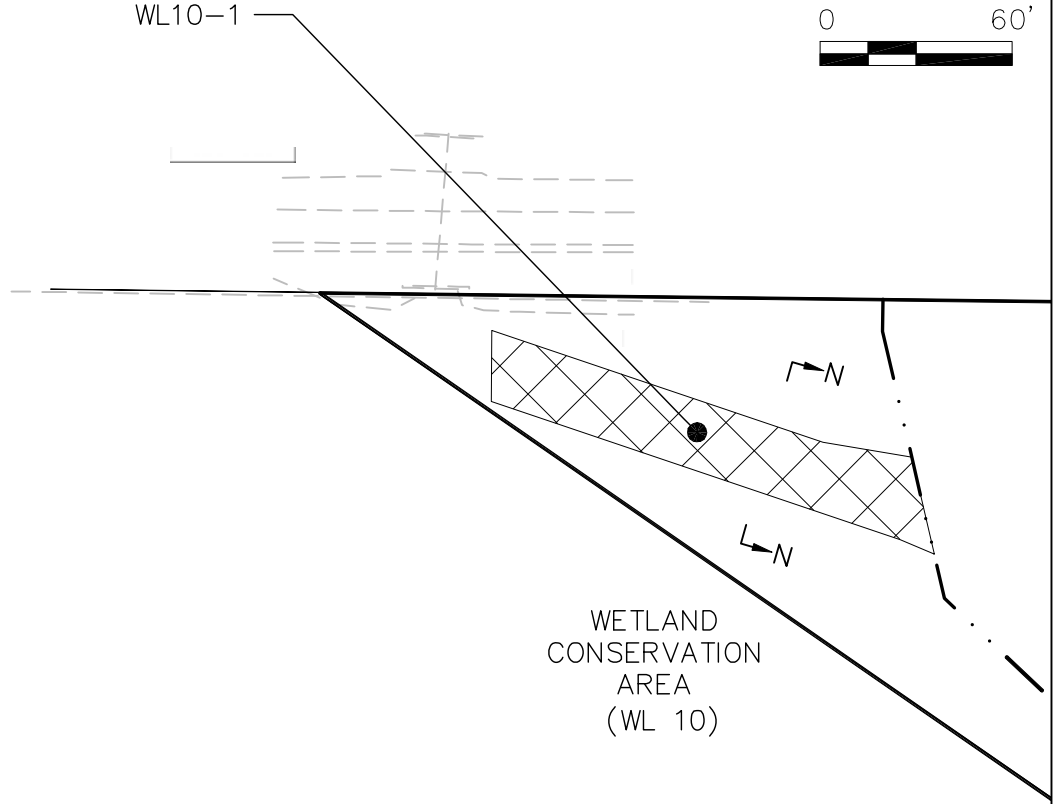


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WETLAND
IMPACT
WL10-1



WETLAND
CONSERVATION
AREA
(WL 10)

REV No.	Revision	Date	IMPACT PLAN
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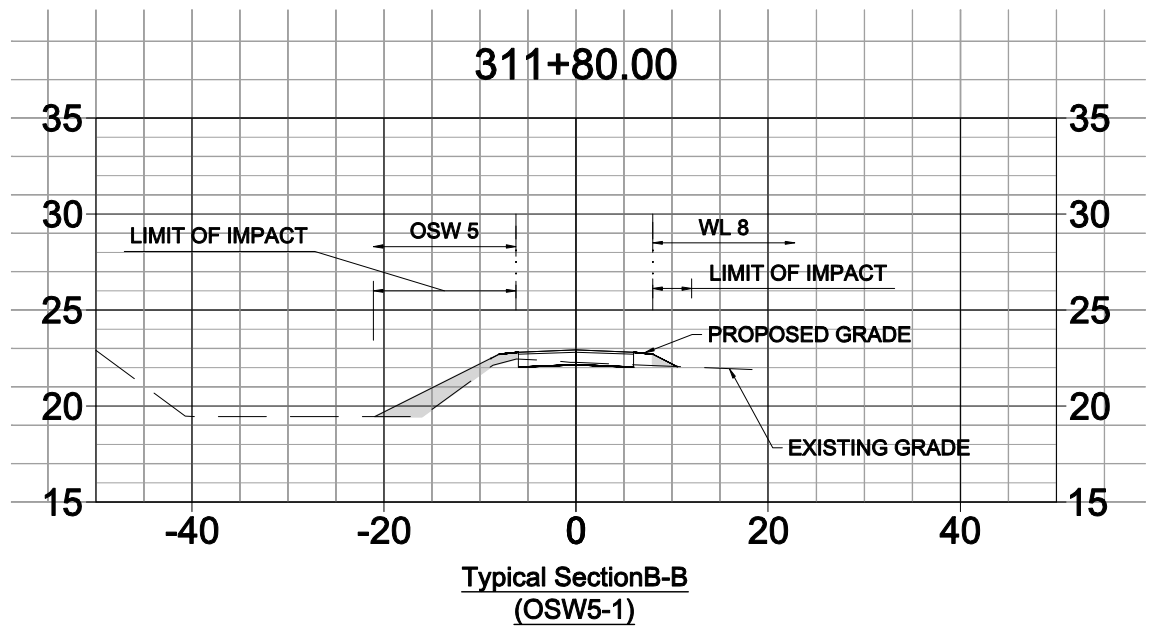
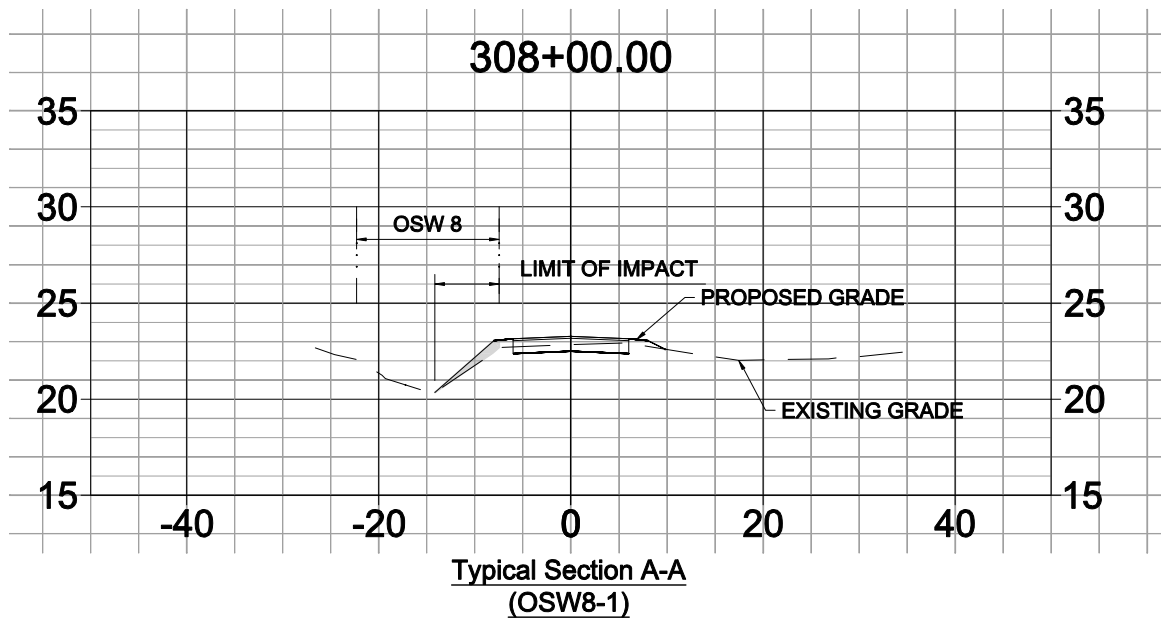


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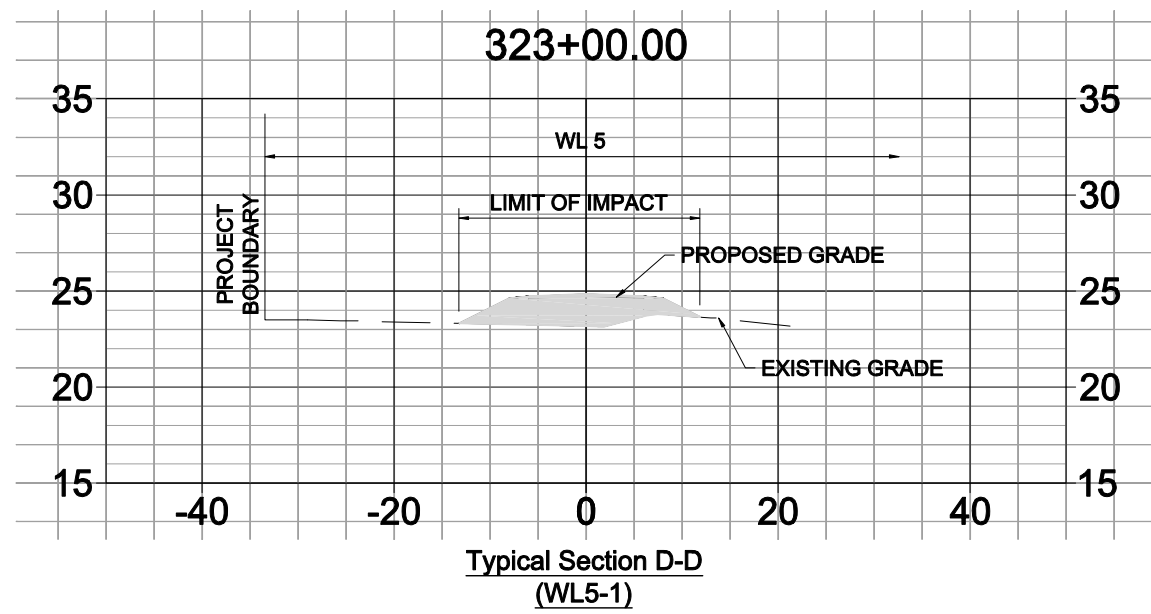
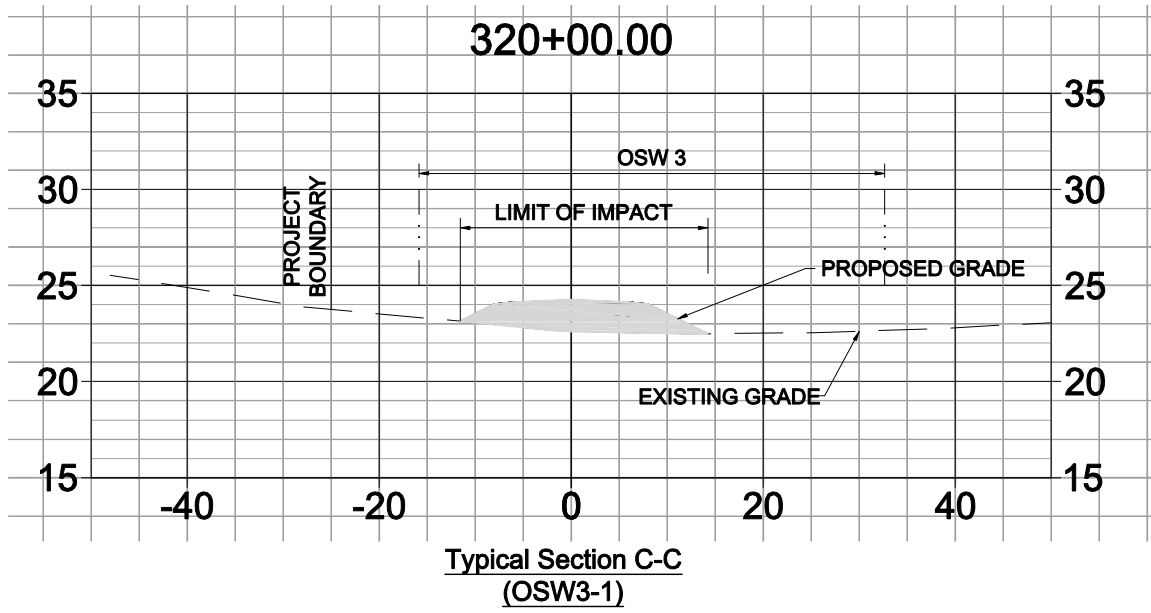
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			TYPICAL IMPACT SECTIONS AND DETAILS
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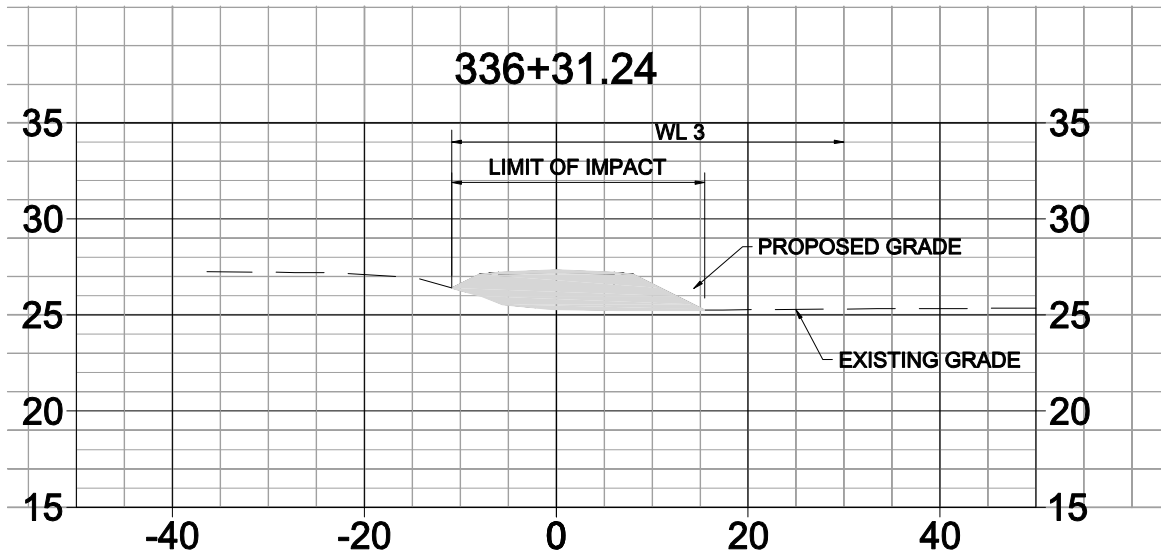
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			TYPICAL IMPACT SECTIONS AND DETAILS
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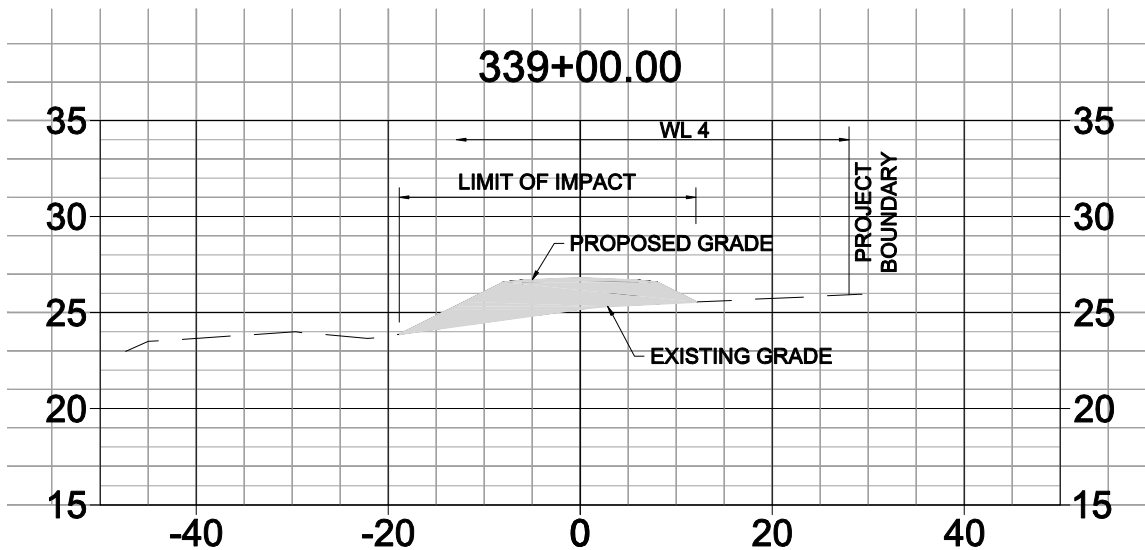
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Typical Section E-E
(WL3-3)



Typical Section F-F
(WL4A-3)

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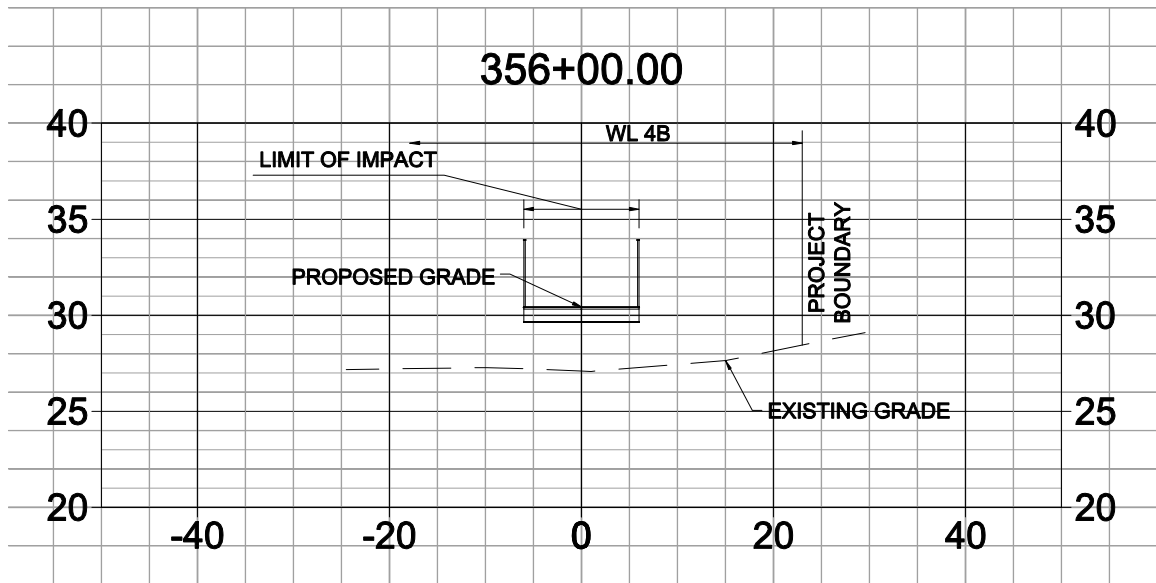


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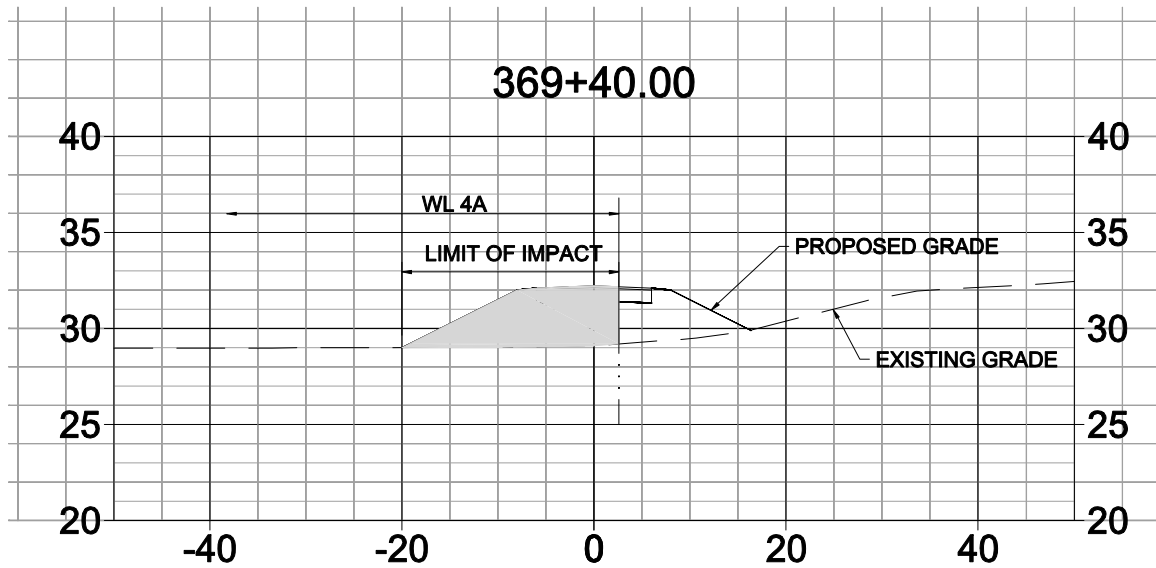


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Typical Section G-G
(WL4B-1)



Typical Section H-H
(WL4A-4 AND WL4A-2)

FILL

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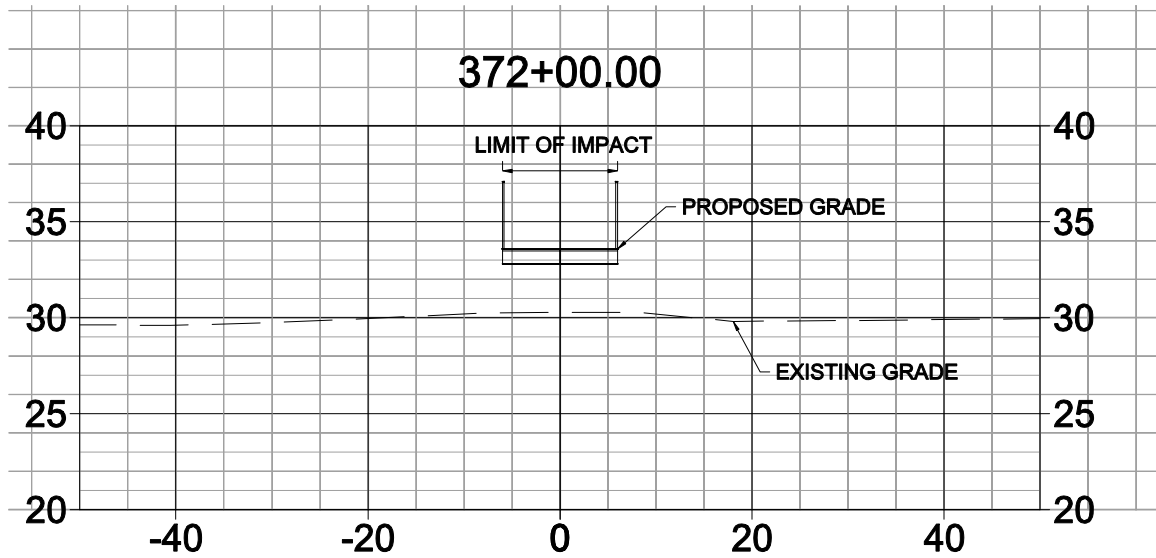
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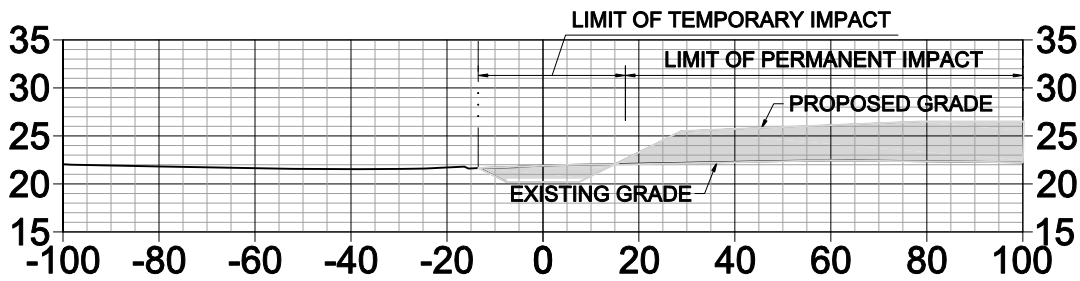
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Typical Section I-I
(WL4A-1)



Typical Section J-J
(OSW2-1)

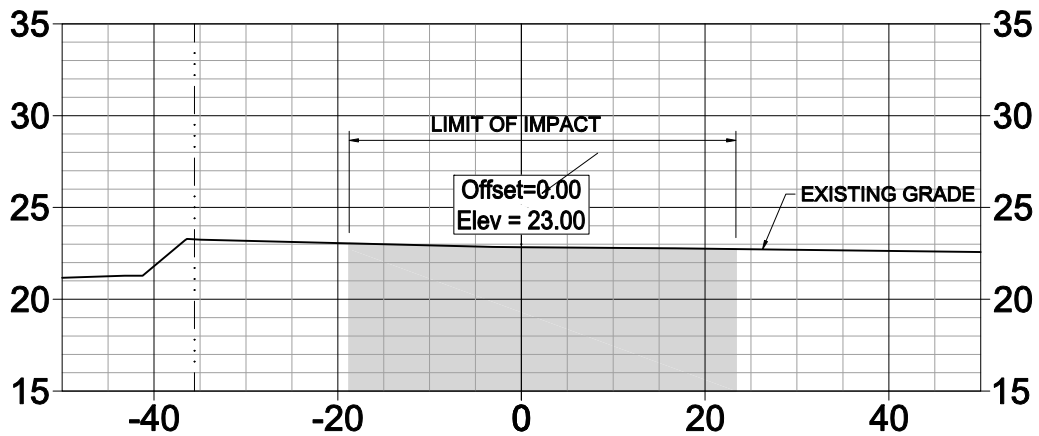
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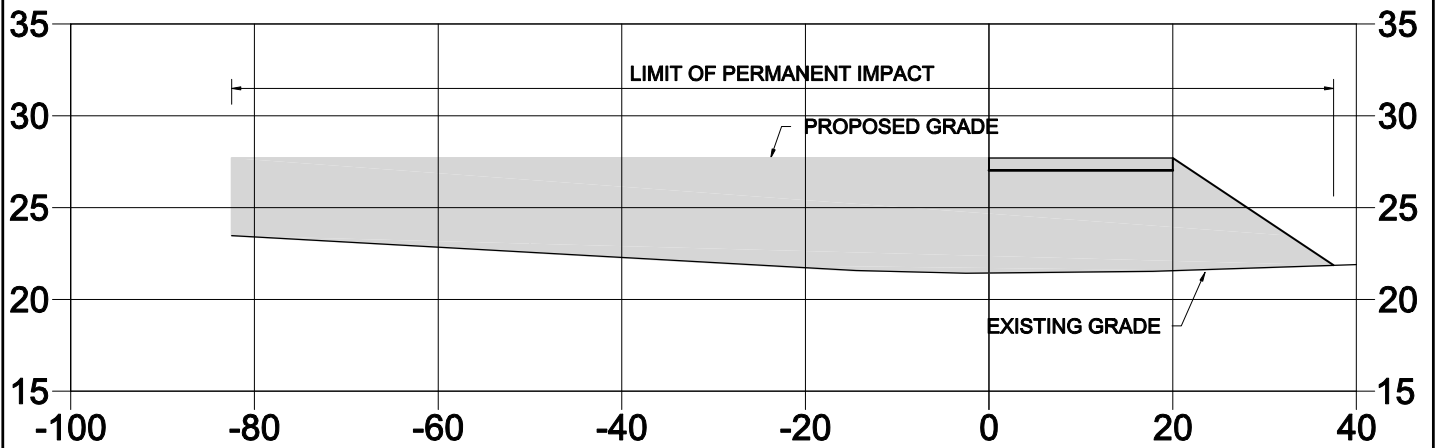
PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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			SEC: 4,5&9	TWP: 28S	RGE: 17E	REV NO:
			PROJECT NO. 215612944			INDEX NO: 215612944
			DRWN BY/EMP NO. A.SALAZAR/102871			SHEET NO: 27 OF 41



**Typical Section K-K
(OSW1-1T)**



**Typical Section L-L
(WL1-1, WL1-2, WL1-3,
WL1-1S, WL1-2S,
WL1-3S)**

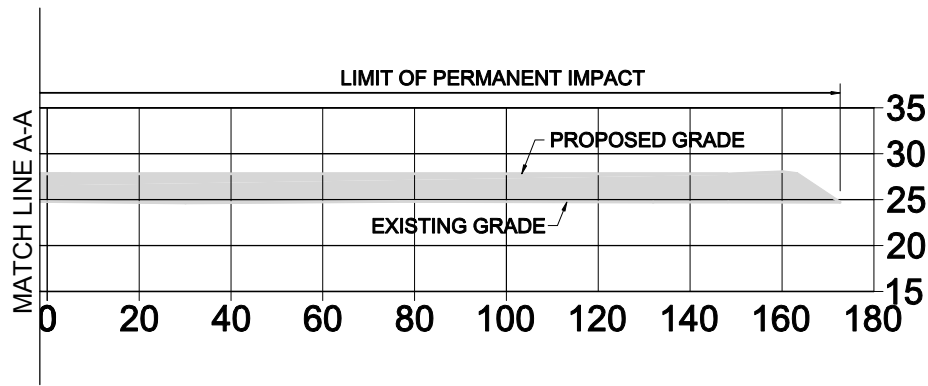
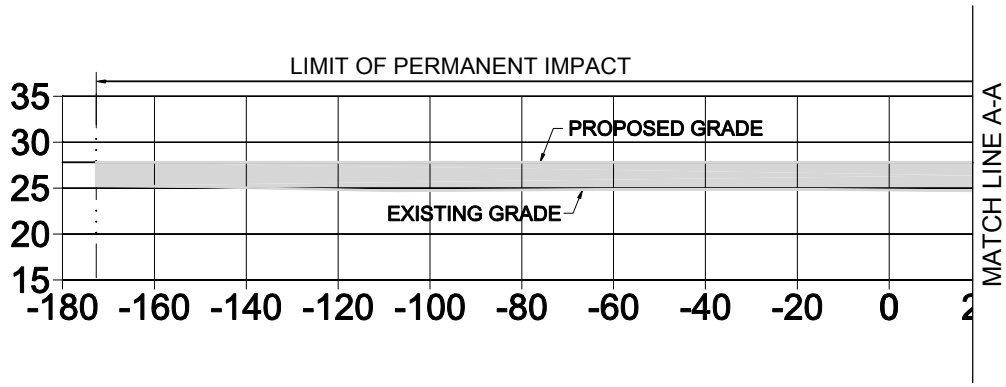
FILL

			TYPICAL IMPACT SECTIONS AND DETAILS
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PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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SCALE:	DATE: 12/01/2016										
SEC: 4,5&9	TWP: 28S RGE: 17E										
PROJECT NO. 215612944	INDEX NO: 215612944										
DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO: 28 OF 41										



Typical Section M-M
(WL3-1, WL3-1S,
WL3-2S)

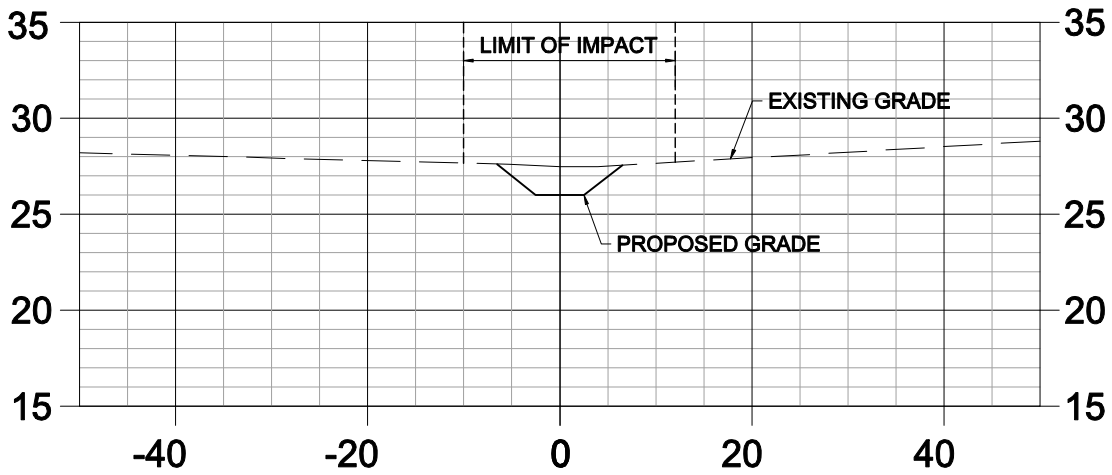
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REV No.	Revision	Date	TYPICAL IMPACT SECTIONS AND DETAILS
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PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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			SEC: 4,5&9	TWP: 28S	RGE: 17E	REV NO:
			PROJECT NO. 215612944			INDEX NO: 215612944
			DRWN BY/EMP NO. A.SALAZAR/102871			SHEET NO: 29 OF 41
 <p>Wharton-Smith, Inc. CONSTRUCTION GROUP <i>Building Solutions for a Sustainable Future</i></p>						



**Typical Section N-N
(WL 10)**

FILL

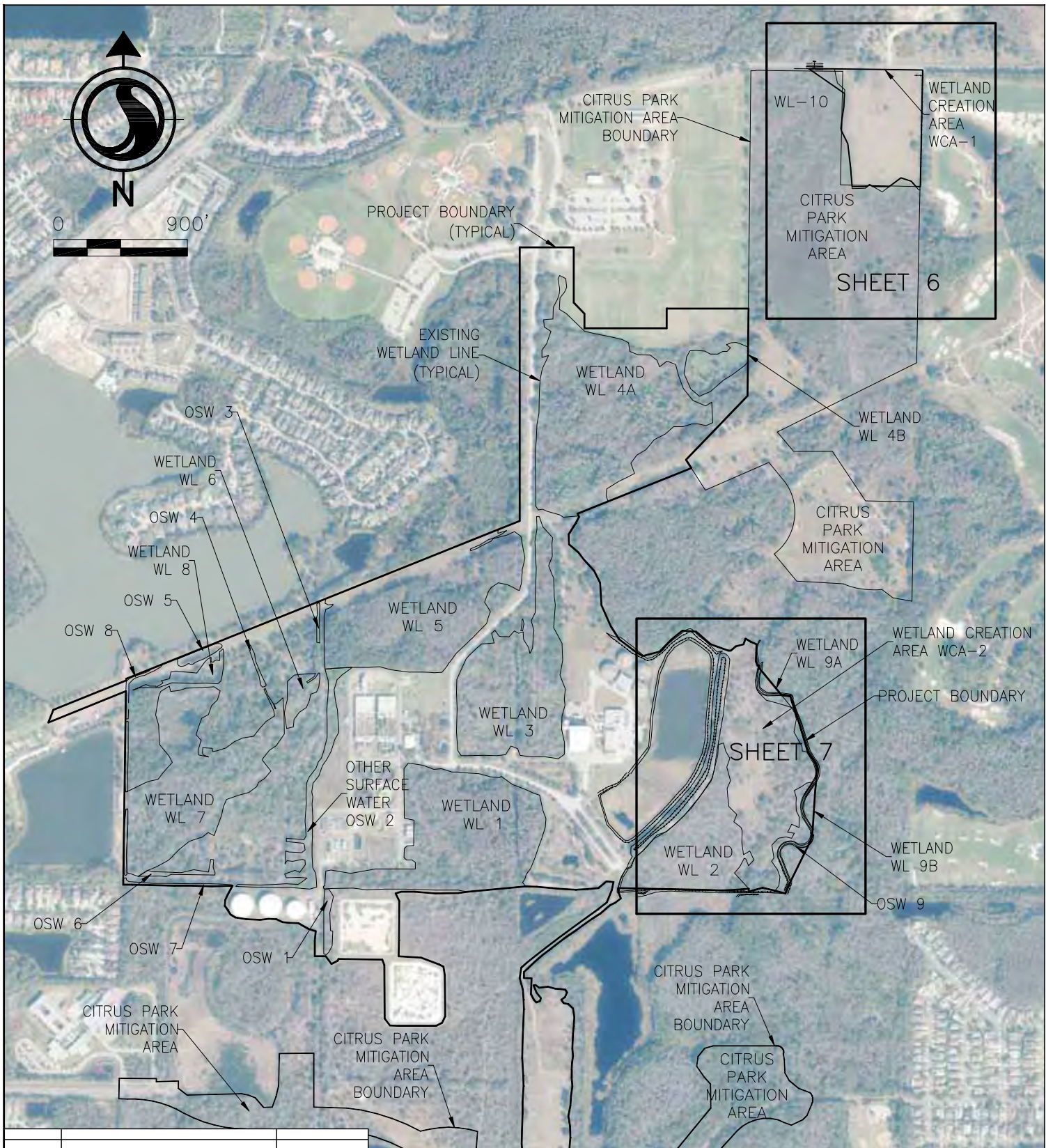
REV No.	Revision	Date	TYPICAL IMPACT SECTIONS AND DETAILS

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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SEC: 4,5&9	12/01/2016												
TWP: 28S	RGE: 17E												
PROJECT NO. 215612944	INDEX NO: 215612944												
DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO: 30 OF 41												

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REV No.	Revision	Date	WETLAND CREATION AREA WCA 1 & 2 EXISTING CONDITIONS KEY SHEET
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SEC: 4,5&9	TWP: 28S	RGE: 17E	REV NO:
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APPROXIMATE PROPERTY BOUNDARY

APPROXIMATE PROPERTY BOUNDARY

EXISTING WETLAND LINE

EXISTING CONTOUR LINE W/ELEVATION (TYPICAL)

CITRUS PARK MITIGATION AREA

WCA-1 PROJECT BOUNDARY

CITRUS PARK MITIGATION AREA BOUNDARY

WETLAND LINE (TYPICAL)

CITRUS PARK MITIGATION AREA

REV No.	Revision	Date

WETLAND CREATION AREA WCA 1 EXISTING CONDITIONS

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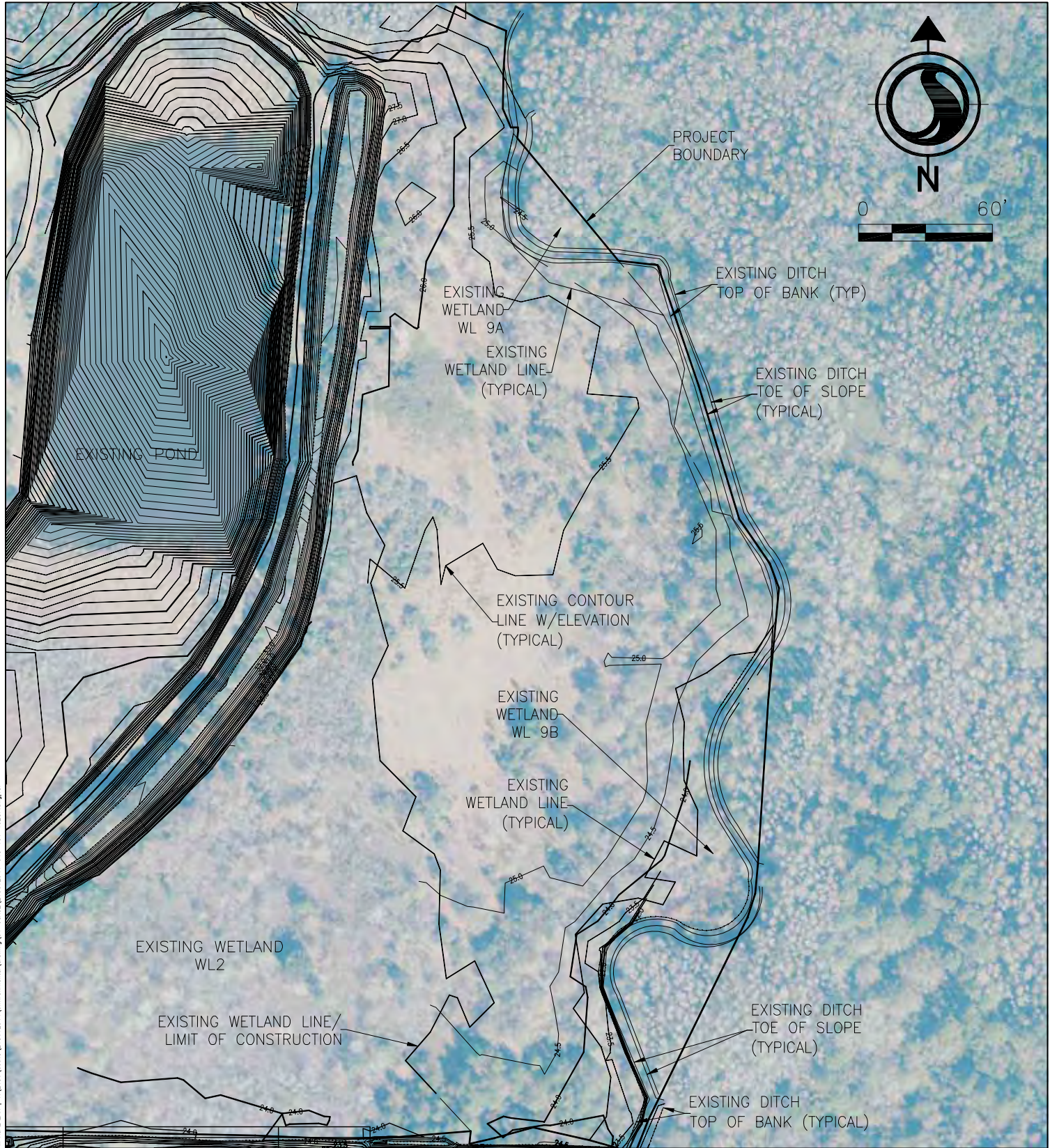


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SCALE:	DATE:		
SEC: 4,5&9	TWP: 28S	RGE: 17E	12/01/2016
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REV No. Revision Date WETLAND CREATION AREA WCA 2 EXISTING CONDITIONS

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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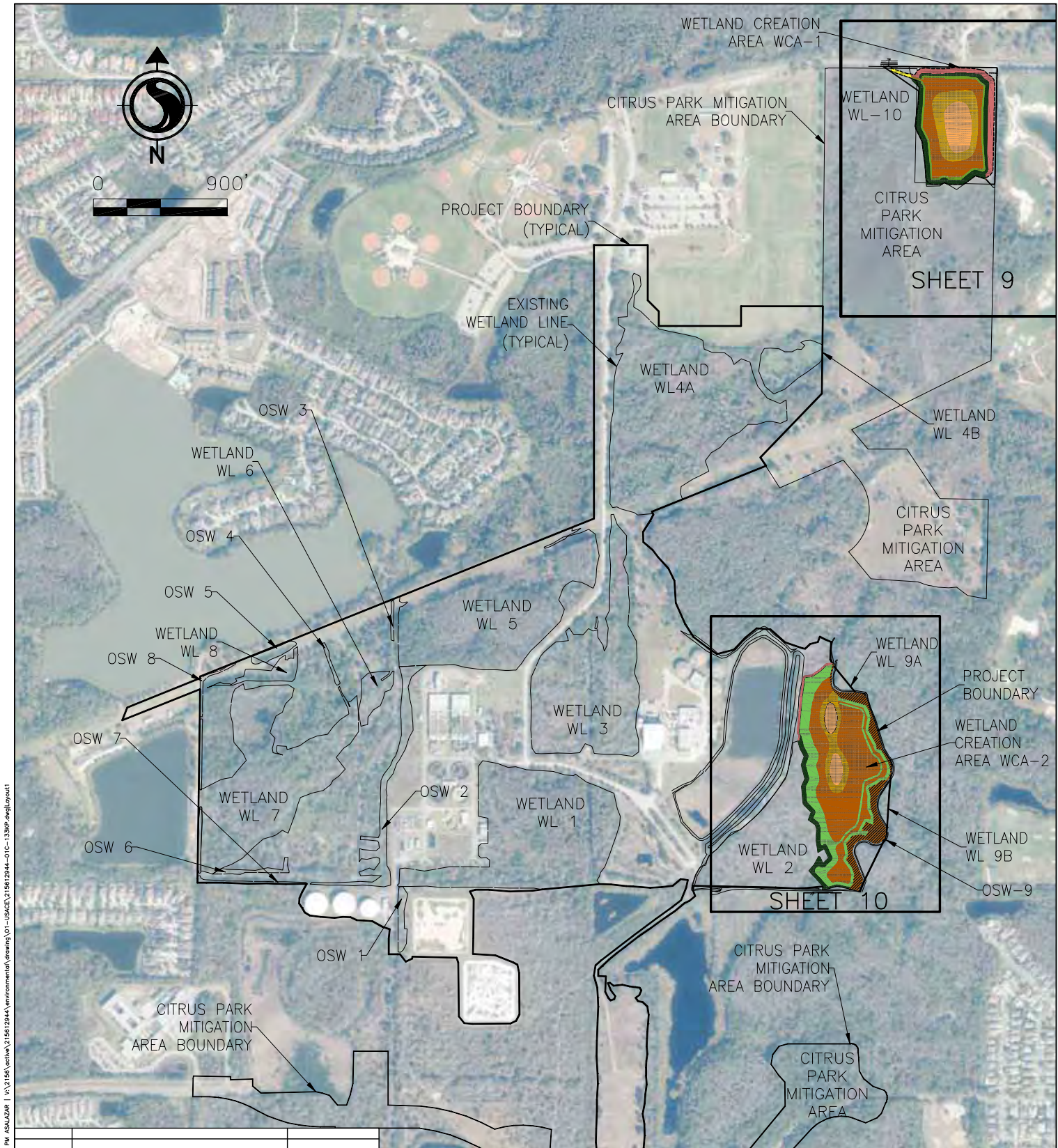


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PROJECT NO. 215612944		INDEX NO. 215612944	
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REV No.	Revision	Date	WETLAND CREATION AREA MITIGATION PLAN KEY SHEET
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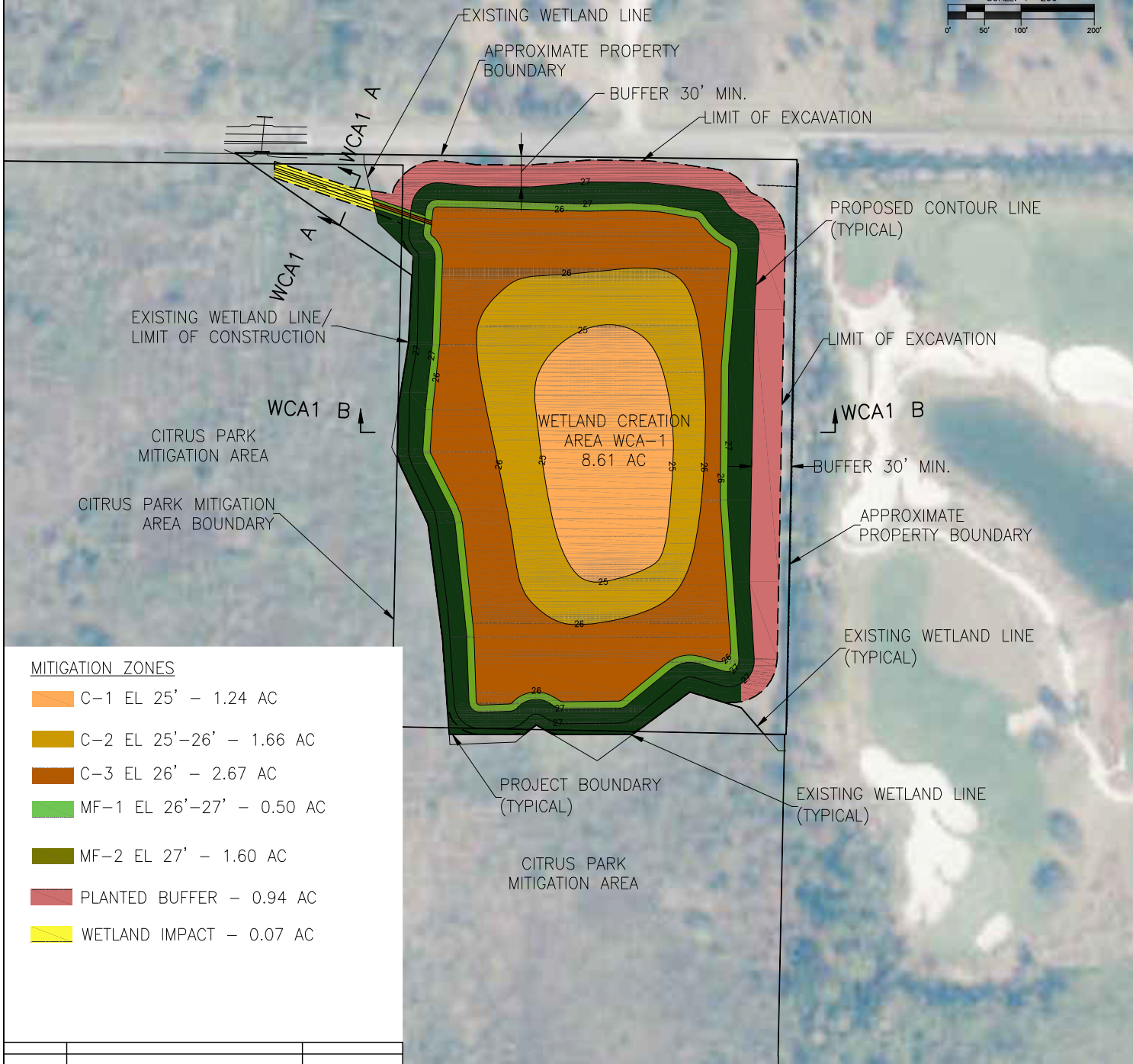
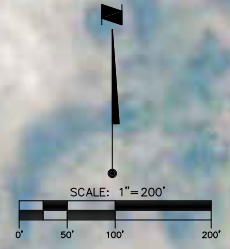
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 EXPANSION - FROM DESIGN
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SCALE:	DATE:
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RGE: 17E	INDEX NO: 215612944
PROJECT NO: 215612944	SHEET NO: 35 OF 41
DRWN BY/EMP NO: A.SALAZAR/102871	

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MITIGATION ZONES

- C-1 EL 25' - 1.24 AC
- C-2 EL 25'-26' - 1.66 AC
- C-3 EL 26' - 2.67 AC
- MF-1 EL 26'-27' - 0.50 AC
- MF-2 EL 27' - 1.60 AC
- PLANTED BUFFER - 0.94 AC
- WETLAND IMPACT - 0.07 AC

REV No.	Revision	Date

WETLAND CREATION AREA WCA 1 MITIGATION PLAN

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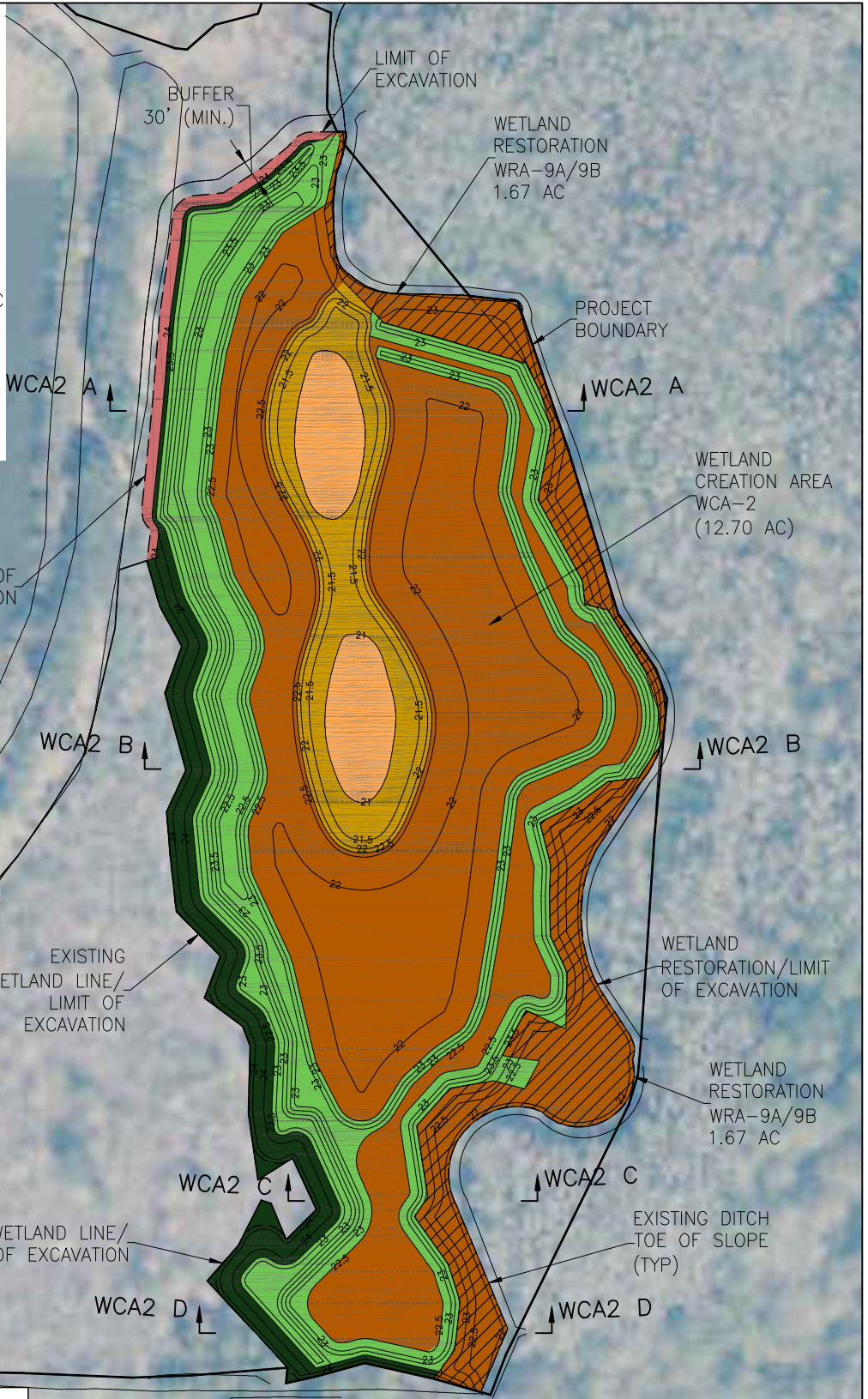
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RGE: 17E	DATE: 12/01/2016
PROJECT NO. 215612944	REV NO:
DRWN BY/EMP NO. A.SALAZAR/102871	INDEX NO. 215612944
	SHEET NO. 36 OF 41

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MITIGATION ZONES

- C-1 EL 21' - 0.62 AC
- C-2 EL 21'-22.5' - 1.16 AC
- C-3 EL 22.5' - 6.16 AC
- MF-1 EL 22.5'-23.5' - 3.63 AC
- MF-2 EL 23.5'-24' - 0.99
- WETLAND RESTORATION (C3)- 1.67 AC
- PLANTED BUFFER - 0.14 AC



REV No.	Revision	Date	
			WETLAND CREATION AREA WCA 2 MITIGATION PLAN

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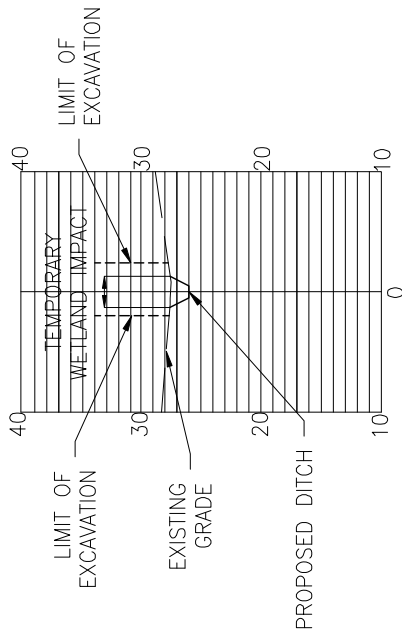
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SCALE:		DATE: 12/01/2016	
SEC: 4,5&9	TWP: 28S	RGE: 17E	REV NO:
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DRWN BY/EMP NO. A.SALAZAR/102871		SHEET NO. 37 OF 41	

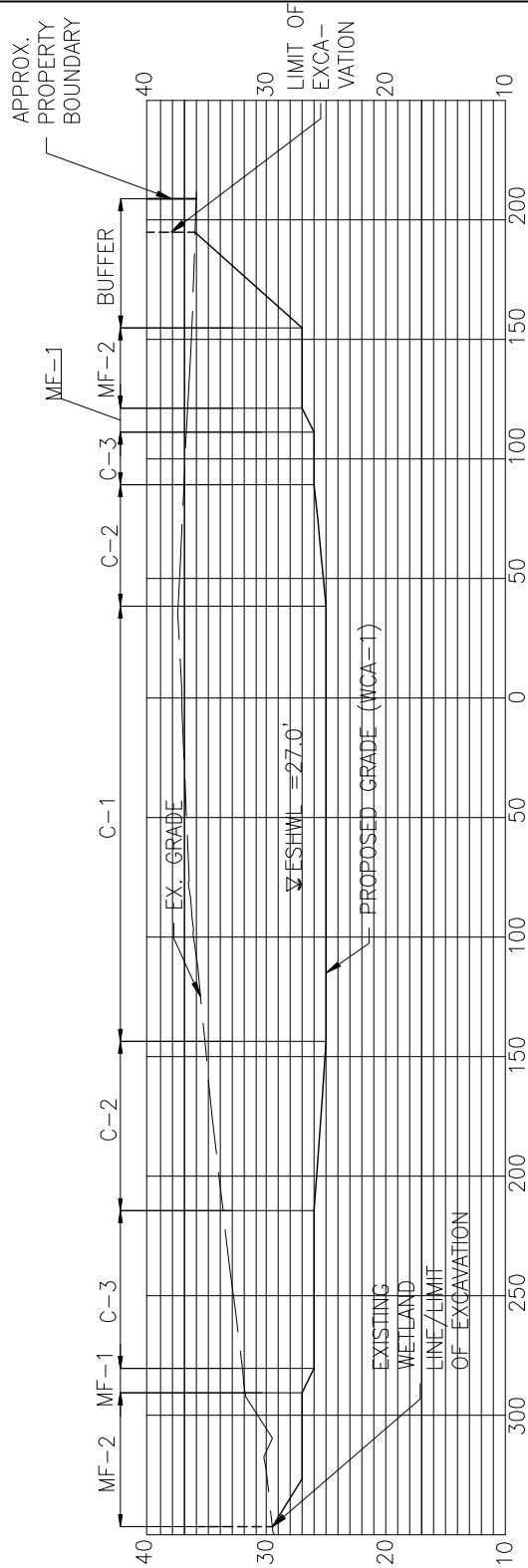
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WCA1 - A
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)



WCA1 - B
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)

REV No.	Revision	Date	TYPICAL MITIGATION SECTIONS AND DETAILS

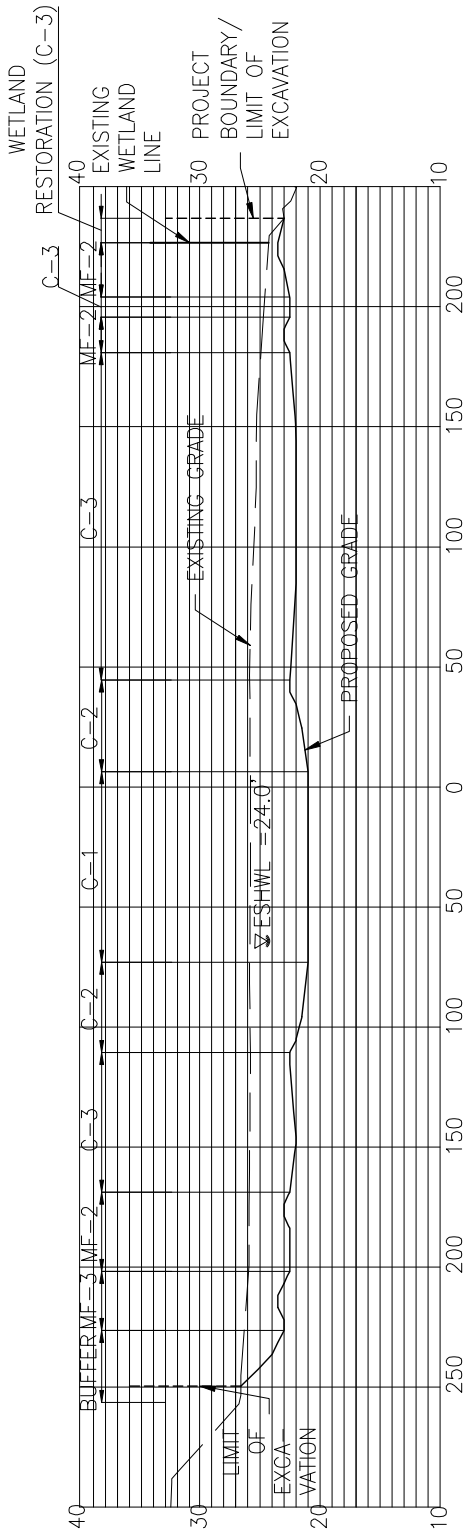
PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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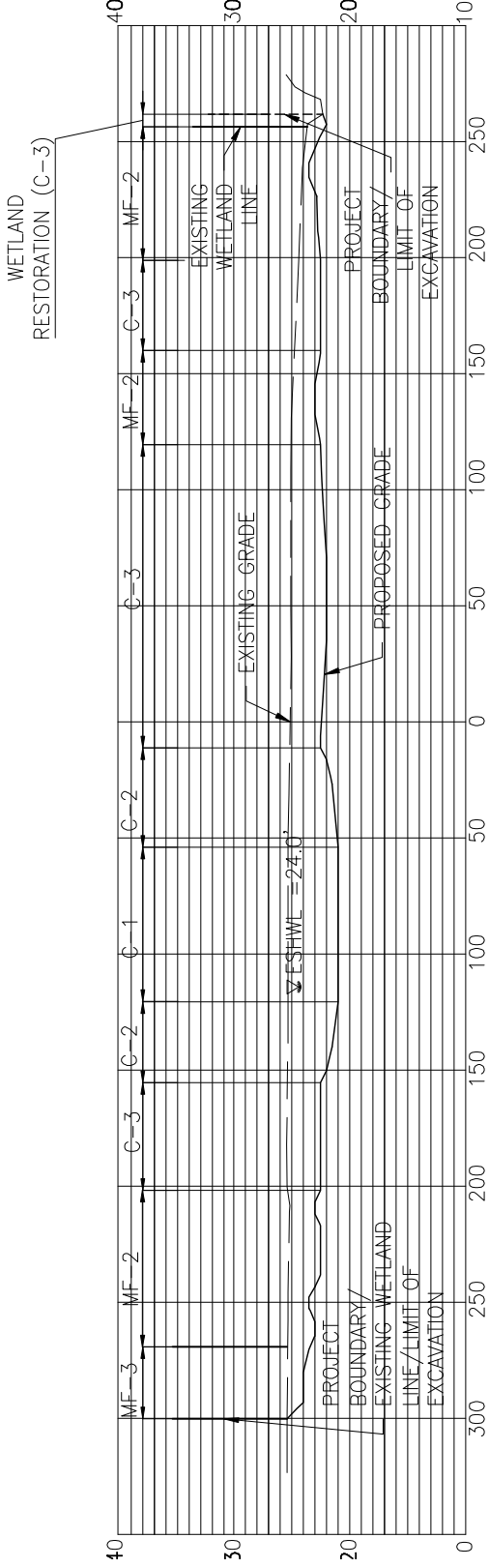
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WCA2 - A
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)



WCA2 - B
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)

REV No.	Revision	Date

TYPICAL MITIGATION SECTIONS AND DETAILS

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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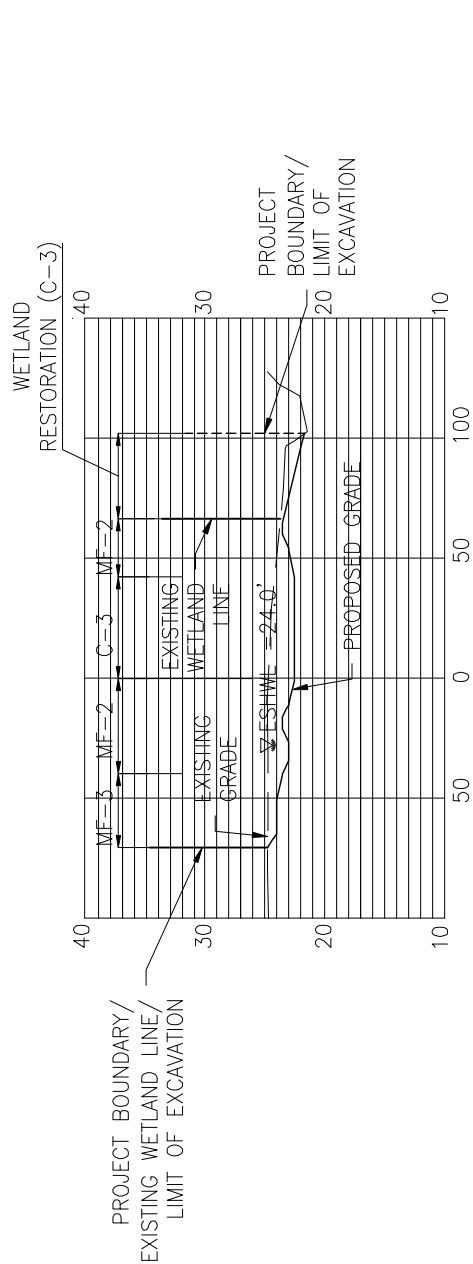
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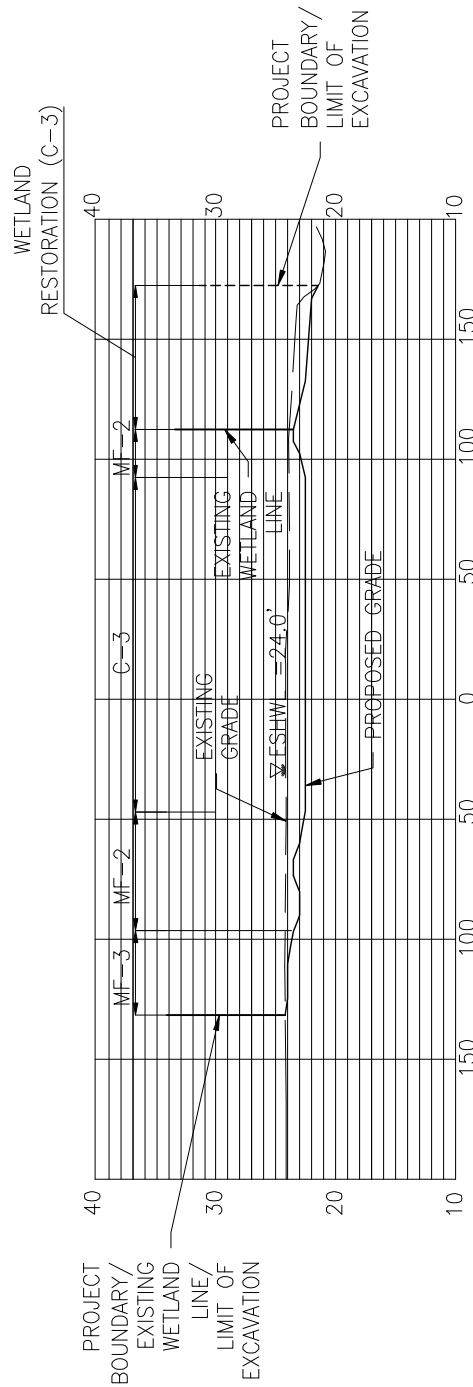
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SEC: 4,5&9	TWP: 28S	RGE: 17E	DATE: 12/01/2016
PROJECT NO. 215612944	INDEX NO. 215612944		
DRWN BY/EMP NO. A.SALAZAR/102871	SHEET NO. 39 OF 41		

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WCA2 - C
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)



WCA2 - D
WETLAND CREATION TYPICAL SECTION
SCALE 1" = 80' (H)
1" = 16' (V)

REV No.	Revision	Date

TYPICAL MITIGATION SECTIONS AND DETAILS

PROJECT: NORTHWEST REGIONAL WATER RECLAMATION FACILITY

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