



# JORDAN VALLEY WATER CONSERVANCY DISTRICT

## SERWTP ASPHALT REPLACEMENT PROJECT #4313 AUGUST 2023

SHEET NO.	DRAWING NO.	SHEET TITLE
1	G-1	COVER SHEET
2	G-2	GENERAL NOTES
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REVISIONS			
REV.	DESCRIPTION	BY	DATE



JORDAN VALLEY WATER  
CONSERVANCY DISTRICT

8215 South 1300 West  
West Jordan, UT 84088  
801-565-4300

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)	ORIGINAL SIZE <b>B</b>
SCALE: SCALE	
DESIGN:	CDT
DRAWING:	CDT
PROJ. MGR:	CDT
APPROVAL:	

SERWTP ASPHALT REPLACEMENT
COVER

DATE 08/15/2023
PROJECT NUMBER <b>4313</b>
DRAWING NUMBER <b>G1</b>
SHEET NUMBER <b>1 OF 6</b>

THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATION, THE CONTRACTOR SHALL ACCEPT THE TRUE MEANING AND BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS INCLUDED AS PART OF THE CONTRACT DOCUMENTS AS WELL AS STANDARDS AND SPECIFICATIONS FROM THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND PRODUCT MANUFACTURERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF WAYS, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT OF THE BID.
4. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, AND SANITARY FACILITIES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND ENGINEER.
7. THE CONTRACTOR AGREES THAT:

A. THEY WILL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.

B. THEY WILL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.

C. THEY WILL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER.

D. THEY WILL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.

E. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND RE-INSPECTION AT THEIR OWN EXPENSE.
8. THE CONTRACTOR SHALL ASSUME SOLE AND

- COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OVNNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
9. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
10. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
11. JVVWD STAFF WILL SERVE AS ENGINEER ON THIS PROJECT.
12. THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND NATIONAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID.
13. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
14. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. AT ALL LOCATIONS WHERE EXISTING PAVEMENT BUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
16. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION AT NO COST TO OWNER.
17. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL FROM DAMAGE.
18. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

UNDERGROUND UTILITIES:

1. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUM CLEARING COST OR IN THE VARIOUS ITEMS OF WORK. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO BEGINNING CONSTRUCTION.
2. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT PHONE NUMBER 811 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
3. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED. THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES. ALONG WITH ANY LOCAL CODES OR ORDINANCES.
4. PRIOR TO OPENING AN EXCAVATION, CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

SURFACE IMPROVEMENTS:

1. PAVEMENT, SIDEWALK AND SURFACE IMPROVEMENTS, AND LANDSCAPE DISTURBED DURING THIS WORK SHALL BE REPLACED AS PART OF THE WORK. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
2. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE. IT IS CONTRACTORS RESPONSIBILITY TO IDENTIFY THESE STRUCTURES BEFORE COMMENCING WORK.
3. CONTRACTOR SHALL CLEAN ASPHALT, TAR, OR OTHER ADHESIVES OFF AL ALL MANHOLE LIDS AND INLET GRATES.

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ORIGINAL  
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SCALE: SCALE

DESIGN: CDT

DRAWING: CDT

PROJ. MGR: CDT

APPROVAL: MAA

SERWTP ASPHALT REPLACEMENT

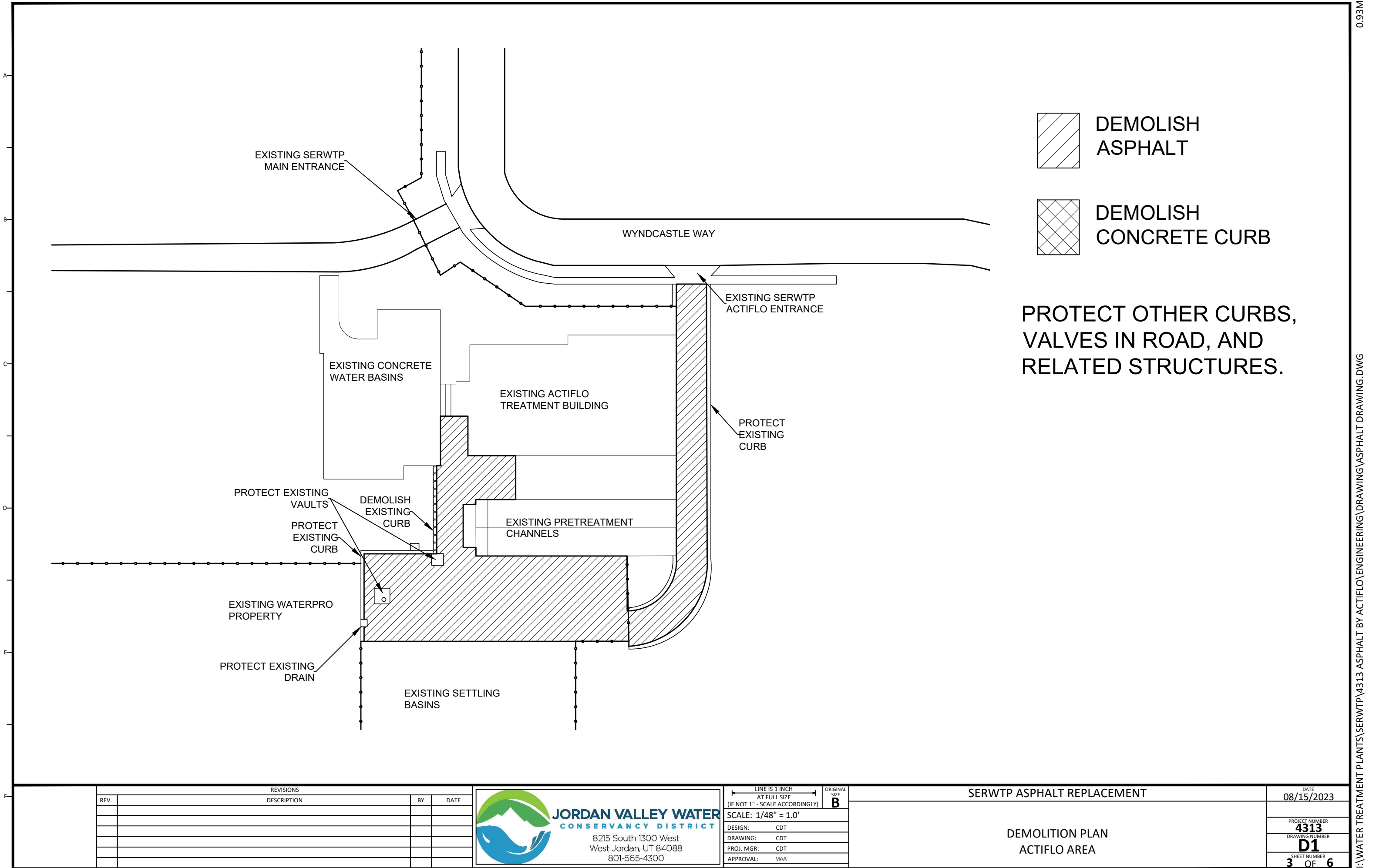
GENERAL NOTES

DATE  
08/15/2023

PROJECT NUMBER  
**4313**

DRAWING NUMBER  
**G2**

SHEET NUMBER  
2 OF 6



EXISTING SERWTP  
MAIN ENTRANCE

WYNDCASTLE WAY

EXISTING SERWTP  
ACTIFLO ENTRANCE

EXISTING CONCRETE  
WATER BASINS

EXISTING ACTIFLO  
TREATMENT BUILDING

PROTECT  
EXISTING  
CURB

PROTECT EXISTING  
VAULTS

DEMOLISH  
EXISTING  
CURB

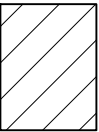
PROTECT  
EXISTING  
CURB

EXISTING PRETREATMENT  
CHANNELS

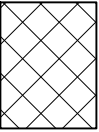
EXISTING WATERPRO  
PROPERTY

PROTECT EXISTING  
DRAIN

EXISTING SETTLING  
BASINS



DEMOLISH  
ASPHALT



DEMOLISH  
CONCRETE CURB

PROTECT OTHER CURBS,  
VALVES IN ROAD, AND  
RELATED STRUCTURES.

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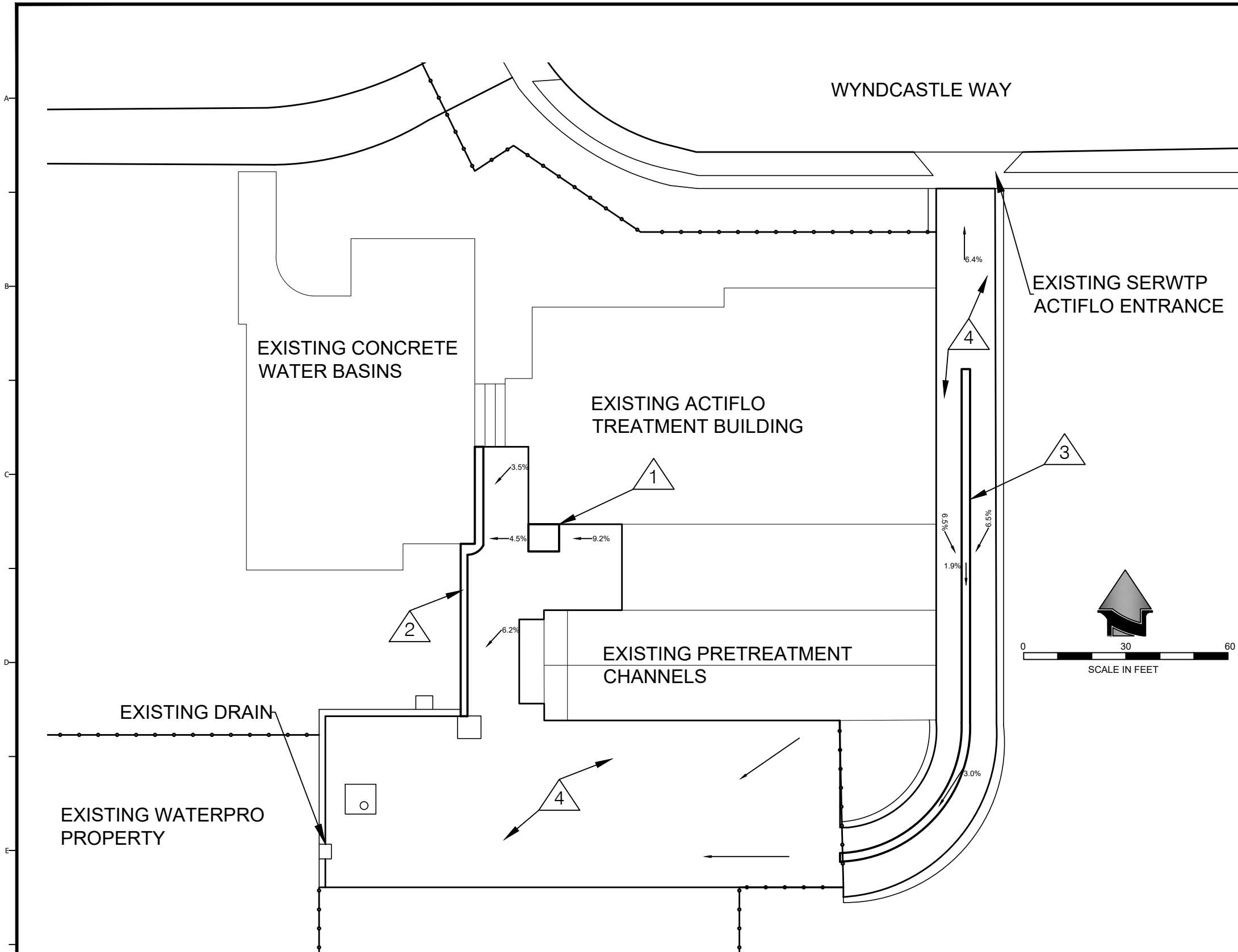
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APPROVAL:	MAA	

SERWTP ASPHALT REPLACEMENT
DEMOLITION PLAN ACTIFLO AREA

DATE 08/15/2023
PROJECT NUMBER <b>4313</b>
DRAWING NUMBER <b>D1</b>
SHEET NUMBER <b>3 OF 6</b>



TAG #	NEW CONCRETE DETAILS
1	CONCRETE FORKLIFT LOADING PAD. 9' X 8'. SLOPE 2% AWAY FROM BUILDING. NO SLOPE PARALLEL TO BUILDING. SEE DETAIL C3-D.
2	CONCRETE TYPE A CURB. SLOPE 2.4% FROM NORTH TO SOUTH. CONNECT TO EXISTING CURB AT SOUTH. SEE DETAIL C2-A.
3	CONCRETE ROLLING WATERWAY IN CENTER OF ROADWAY. SLOPE TO SOUTH AND WEST AS SHOWN. SEE DETAIL C2-B.
4	REPLACE ALL REMOVED ASPHALT EXCEPT WHERE REPLACED BY NEW CONCRETE. SLOPE AS SHOWN TOWARDS CURBS AND DRAIN AND AWAY FROM ALL BUILDINGS. SEE DETAIL C3-C.

NOTES:

- SLOPES SHOWN ARE ONLY APPROXIMATE. ACTUAL SLOPES WILL NEED TO FIT EXISTING EDGES.

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DESIGN:	CDT
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APPROVAL:	MAA

SERWTP ASPHALT REPLACEMENT
ASPHALT PLAN ACTIFLO AREA

DATE 08/15/2023
PROJECT NUMBER <b>4313</b>
DRAWING NUMBER <b>C1</b>
SHEET NUMBER 4 OF 6

NOTES

- GENERAL
- A.

VARIANCE FROM SPECIFIED DIMENSIONS AND SLOPES MUST BE ACCEPTABLE TO THE ENGINEER. SYSTEM CONFIGURATION MAY BE CHANGED AT ENGINEER'S DISCRETION.
- B.

ADDITIONAL REQUIREMENTS ARE SPECIFIED IN APWA SECTION 32 16 13.
- PRODUCTS
- A.

BASE COURSE: UNTREATED BASE COURSE, APWA SECTION 32 11 23. DO NOT USE GRAVEL AS A BASE COURSE WITHOUT ENGINEER'S PERMISSION.
- B.

EXPANSION JOINT FILLER:  $\frac{1}{2}$ " THICK TYPE F1 FULL DEPTH, APWA SECTION 32 13 73.
- C.

CONCRETE: CLASS 4000, APWA SECTION 03 30 04. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS CONCRETE CRAZING (SPIDER CRACKS) MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
- D.

CONCRETE CURING AGENT: CLEAR MEMBRANE FORMING COMPOUND WITH FUGITIVE DYE (TYPE ID CLASS A), APWA SECTION 03 39 00.
- E.

REINFORCEMENT (WATERWAYS): GALVANIZED OR EPOXY COATED, DEFORMED, 60 KSI YIELD GRADE SLEEL, ASTM A 615.
- EXECUTION
- A.

BASE COURSE PLACEMENT: APWA SECTION 32 05 10. THICKNESS IS 6-INCHES IF FLOW-LINE GRADE IS 0.5% ( $S=0.005$ ) OR GREATER. IF SLOPE IS LESS, PROVIDE 8-INCHES. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8-INCHES WHEN USING RIDING EQUIPMENT OR 6-INCHES WHEN USING HAND EQUIPMENT. COMPACTION IS 95% OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, APWA SECTION 31 23 26.
- B.

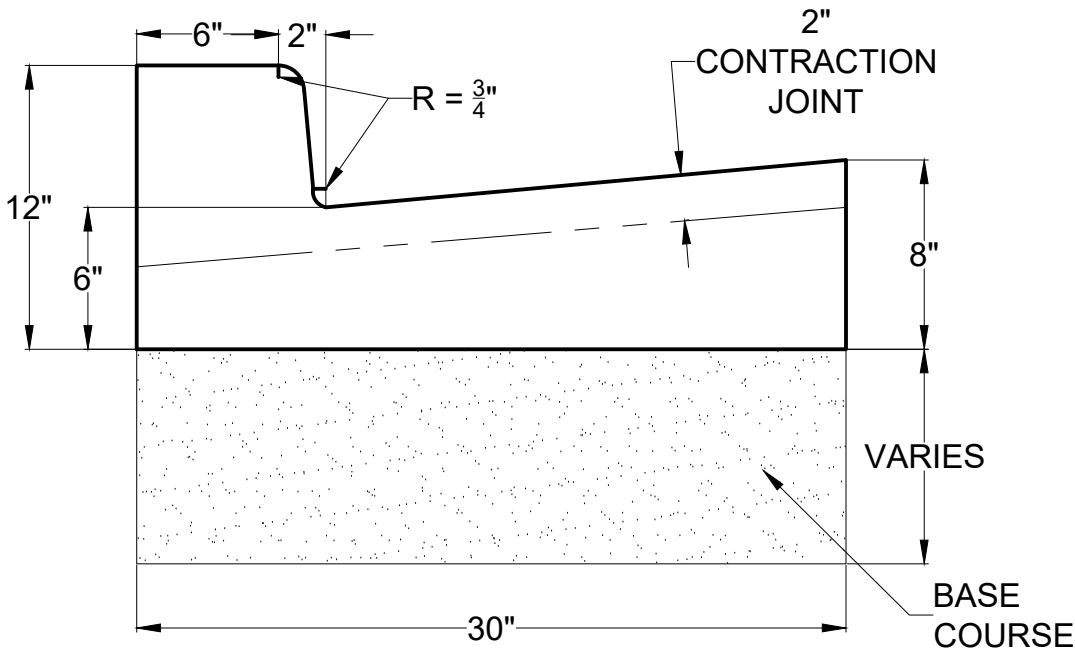
CONCRETE PLACEMENT: APWA SECTION 03 30 10.
- 1)

INSTALL EXPANSION JOINTS VERTICAL, FULL DEPTH, WITH TOP OF FILLER SET FLUSH WITH CONCRETE SURFACE. EXPANSION JOINTS ARE NOT REQUIRED IN CONCRETE PLACEMENT USING SLIP-FORM CONSTRUCTION.
- 2)

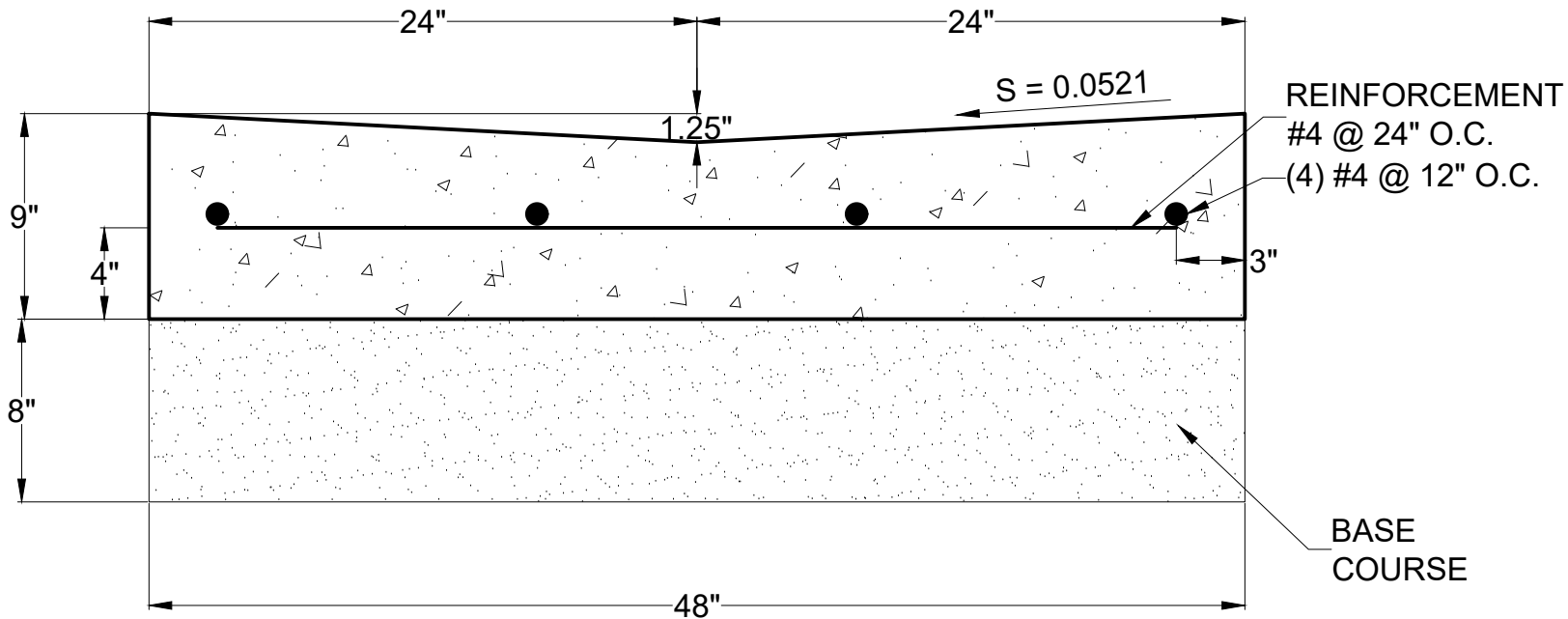
INSTALL CONTRACTION JOINTS VERTICAL,  $\frac{1}{8}$ " WIDE OR  $\frac{1}{4}$ " SLAB THICKNESS IF THE SLAB IS GREATER THAN 8" THICK. MATCH JOINT LOCATION IN ADJACENT PORTLAND-CEMEMET CONCRETE ROADWAY PAVEMENT.
- 3)

PROVIDE  $\frac{1}{2}$ " RADIUS EDGES. APPLY A BROOM FINISH. APPLY A CURING AGENT.
- C.

PROTECTION AND REPAIR: PROTECT CONCRETE FROM DEICING CHEMICALS DURING CURE. REPAIR CONSTRUCTION THAT DOES NOT DRAIN. IF NECESSARY, FILL FLOW-LINE WITH WATER TO VERIFY.



A TYPE A CURB AND GUTTER



B 4' WATERWAY

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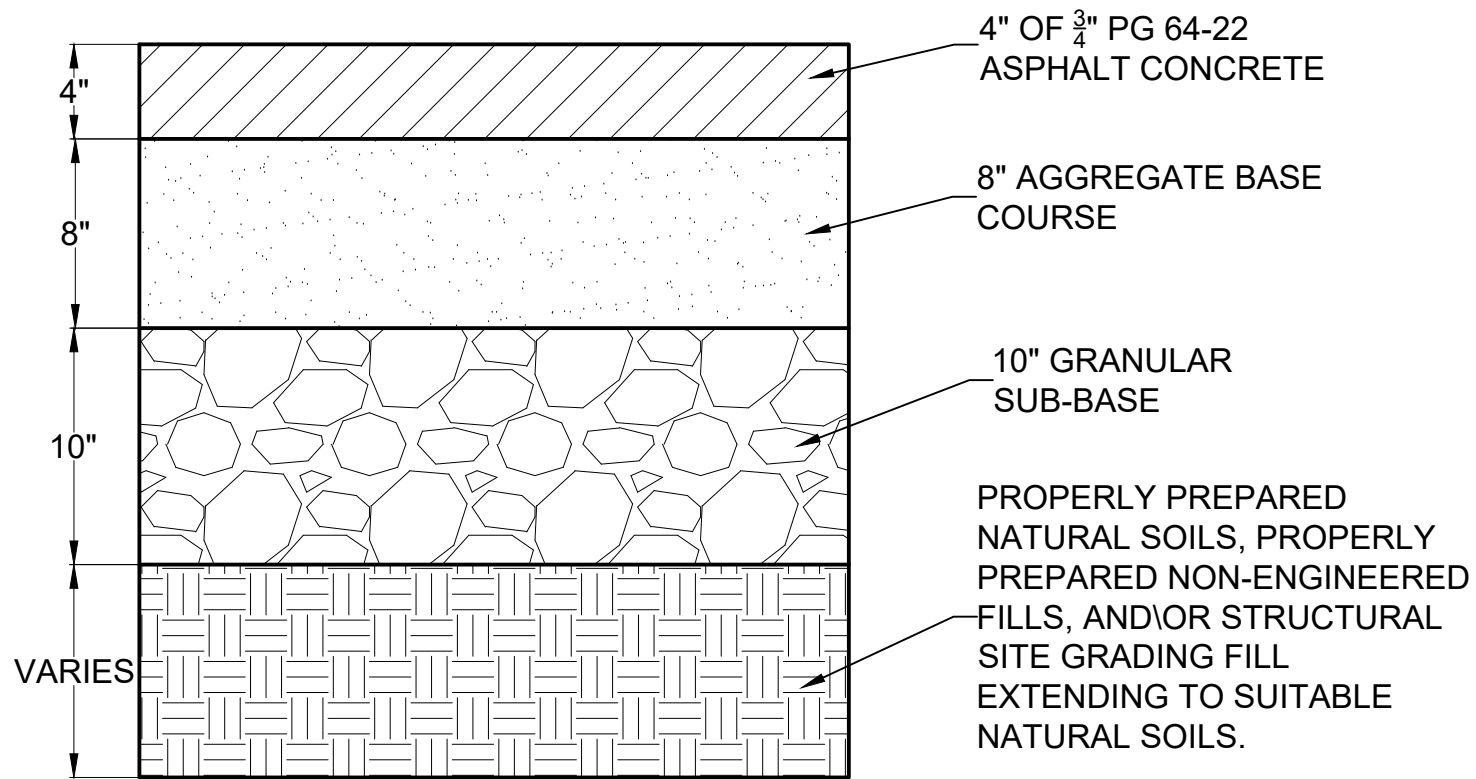
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APPROVAL:	MAA

SERWTP ASPHALT REPLACEMENT
CURB DETAILS

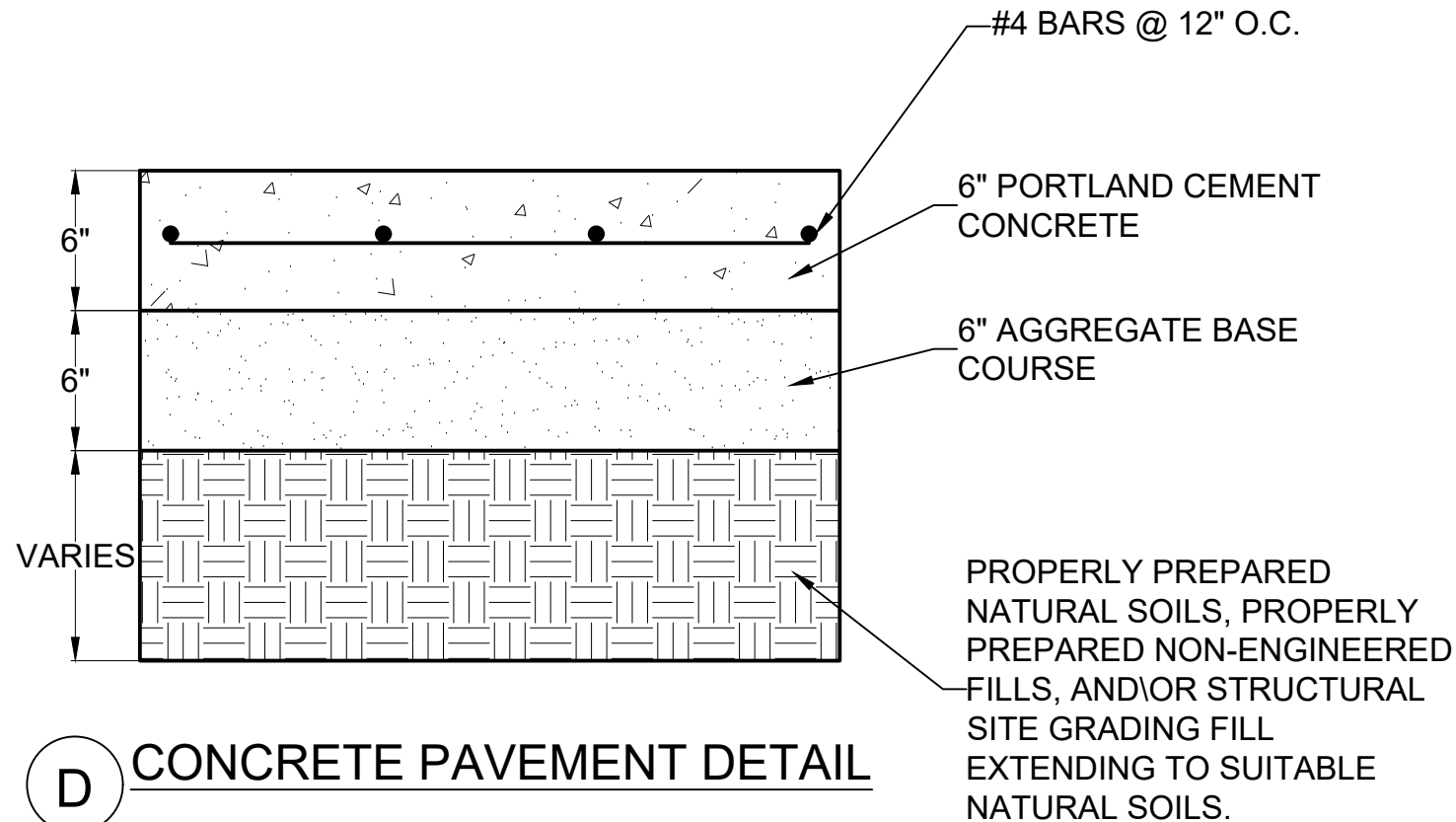
DATE 08/15/2023
PROJECT NUMBER <b>4313</b>
DRAWING NUMBER <b>C2</b>
SHEET NUMBER 5 OF 6



A  
B  
C  
D  
E  
F



**C** ASPHALT PAVEMENT DETAIL



**D** CONCRETE PAVEMENT DETAIL

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SERWTP ASPHALT REPLACEMENT	
PAVEMENT DETAILS	

DATE 08/15/2023
PROJECT NUMBER <b>4313</b>
DRAWING NUMBER <b>C3</b>
SHEET NUMBER <b>6 OF 6</b>