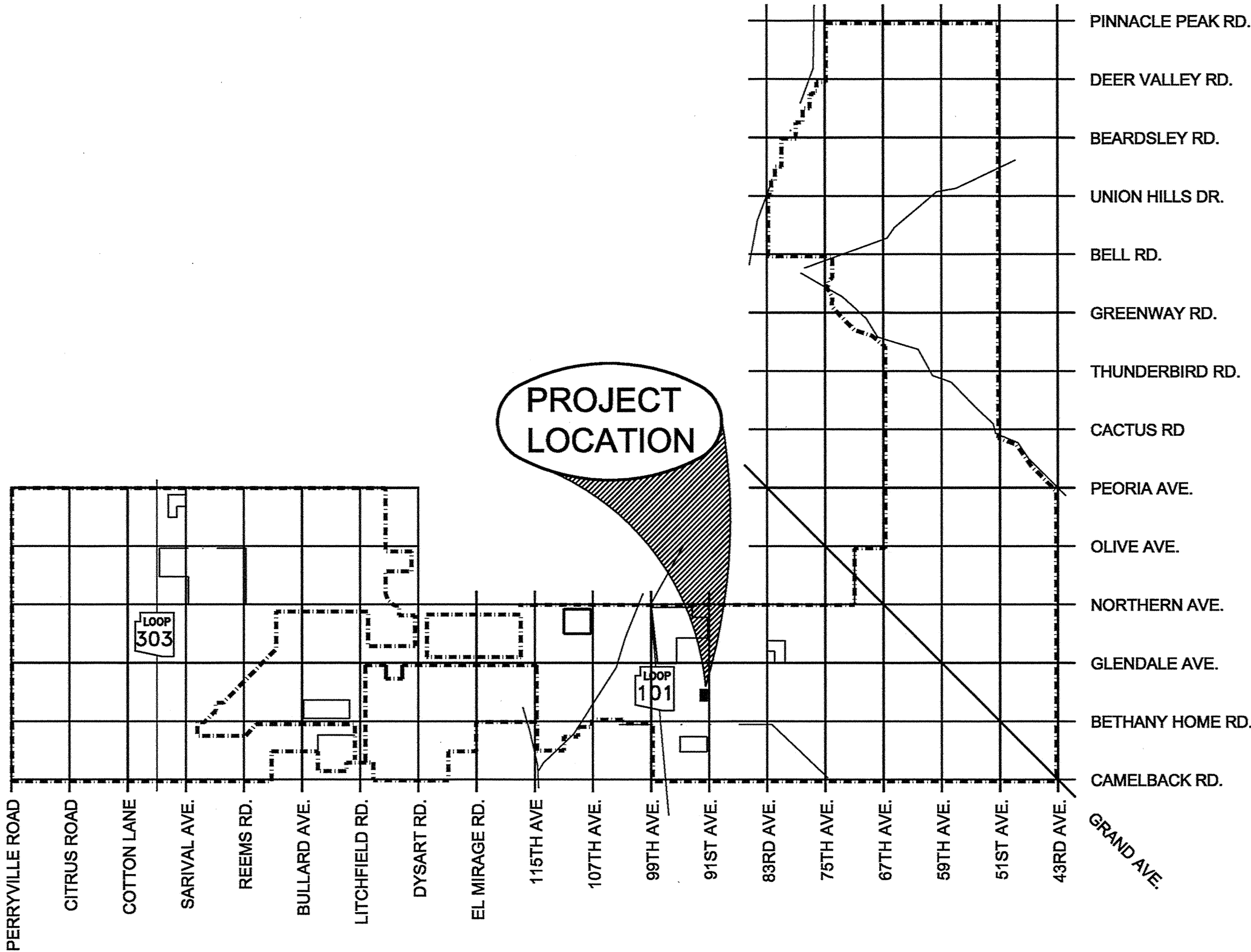
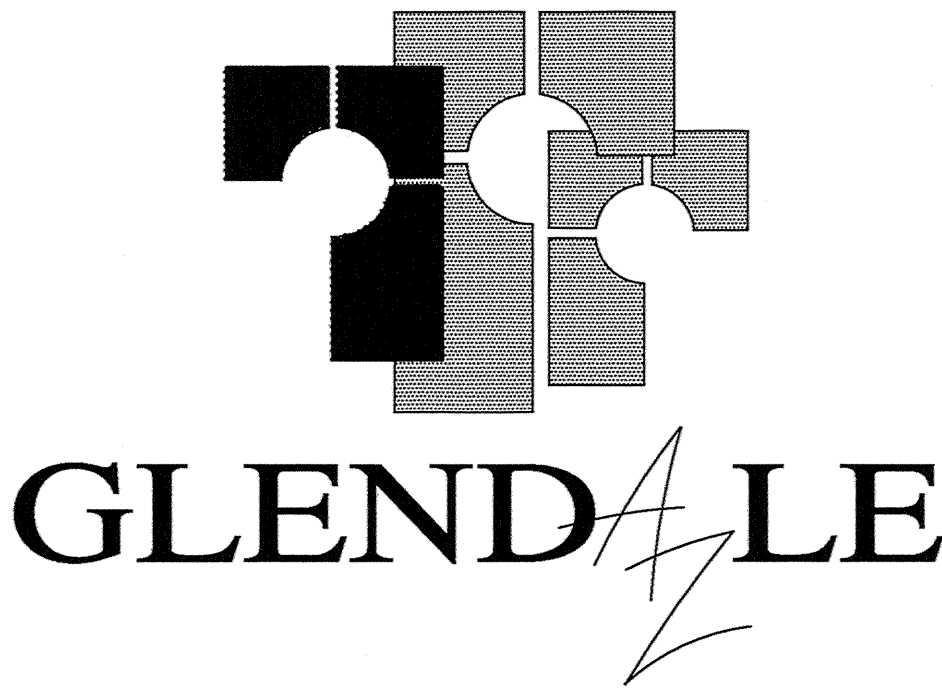


CITY OF GLENDALE

GLENDALE, ARIZONA

PROJECT NO. 161718
91ST AVENUE IMPROVEMENTS



VICINITY MAP



INDEX OF SHEETS

G01	COVER SHEET
G02	NOTES, LEGEND AND ABBREVIATIONS
P01 - P04	PAVING SHEET
DT01	MISCELLANEOUS PAVING DETAILS
DT02	DYNAMIC MESSAGE BOARD DETAILS
DT03	TUBULAR CANTILEVER SIGN STRUCTURE FOUNDATION DETAILS
SL1	STREET LIGHTING COVER SHEET
SL2 - SL5	STREET LIGHTING SHEET
SL6	STREET LIGHTING DETAILS
LS01 - LS05	LANDSCAPE SHEET
LSDT01	LANDSCAPE DETAILS
SM01	SIGNING AND MARKING SHEET
TS01	TRAFFIC SIGNAL PLANS
SB-01	SOIL BORING LOG INFORMATION SHEET

MAYOR

JERRY P. WEIERS

CITY COUNCIL

JAMIE ALDAMA
JOYCE V. CLARK
IAN HUGH
RAY MALNAR
LAUREN TOLMACHOFF
BART TURNER

CITY MANAGER

KEVIN R. PHELPS

CITY CLERK

JULIE K. BOWER

CITY ATTORNEY

MICHAEL D. BAILEY

RECORD DRAWING

I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND RECORD DRAWING COMMENTS ACCURATELY REFLECT THE EXISTING FIELD CONDITIONS AND MATERIALS ACTUALLY USED DURING CONSTRUCTION. THIS CERTIFICATION IS BASED ON PERIODIC FIELD OBSERVATIONS AND THE CONTRACTORS REPRESENTATIONS OF THE FACILITIES AS CONSTRUCTED.

NAME _____ (SEAL)

REGISTRATION NO. _____ DATE

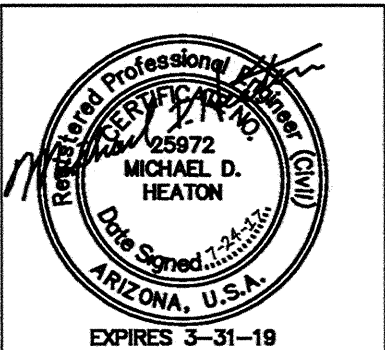
REVD. BY: _____
CONSTRUCTION ENGINEER

PLANS ACCEPTANCE

THE CITY OF GLENDALE ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLAN PREPARATION REQUIREMENTS OF THE CITY. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGN RESIDES WITH THE ENGINEER AND THE ENGINEERING FIRM OF RECORD.

APPROVAL: David D. Beaulieu 7/31/2017
CITY ENGINEER DATE

APPROVAL: [Signature] 8-1-17
TRANSPORTATION DIRECTOR DATE



PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CITY OF GLENDALE
ENGINEERING DEPARTMENT

5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

COVER SHEET

91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR:	JG	DES:	MH	CK:	SM	DRAWING	SHEET NO.
DATE:	6/17	DATE:	6/17	DATE:	6/17	SERIES	
SCALE:	HORIZ					G01	1 OF 24
	VERT						

REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE
REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE
REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE

CITY OF GLENDALE GENERAL NOTES FOR CONSTRUCTION

- A. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST MAG STANDARD DETAILS AND SPECIFICATIONS AND THE CITY'S CURRENT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS.
- B. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW AND ACCEPTANCE SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN SAID PLANS AND/OR CONSTRUCTION WHEN IN VIOLATION OF ANY LAWS, ORDINANCES, CODES OR STANDARDS THAT ARE IN EFFECT. REVIEW AND ACCEPTANCE OF PLANS DOES NOT RELEASE A DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS ON SAID PLANS.
- C. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- D. THE CITY PLANS ACCEPTANCE IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS ACCEPTANCE IS VALID FOR A PERIOD OF SIX MONTHS. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW.
- E. A CITY ACCEPTED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES,
- F. THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- G. A RIGHT-OF-WAY CONSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN A CITY EASEMENT, A 100% PERFORMANCE BOND OR EQUIVALENT FORM OF FINANCIAL SURETY MAY BE REQUIRED FOR ALL WORK WITHIN THE RIGHT-OF-WAY PRIOR TO THE ISSUANCE OF ANY RIGHT-OF-WAY CONSTRUCTION PERMIT(S). ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE INSPECTED AND APPROVED BY THE CITY'S ENGINEERING DIVISION.
- H. IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS AND ELECTRONIC (AUTOCAD) FILES HAVE BEEN SUBMITTED AND APPROVED BY THE CITY.
- I. THE DEVELOPER IS RESPONSIBLE FOR ALL COSTS AND WORK RELATED TO THE REMOVAL, RELOCATION OR ABANDONMENT OF ALL OBSTRUCTIONS AND/OR UTILITIES WITHIN THE RIGHT-OF-WAY THAT CONFLICT WITH THE NEW IMPROVEMENTS.
- J. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF THE BUILDING'S CERTIFICATE OF OCCUPANCY.
- K. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) 48 HOURS PRIOR TO CONSTRUCTION.
- L. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION.
- M. THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM THE CITY WATER SERVICES DEPARTMENT. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- N. DAMAGE CAUSED BY THE DEVELOPER DURING CONSTRUCTION TO CITY INFRASTRUCTURE OR FACILITIES SHALL BE REPAIRED OR REPLACED BY THE DEVELOPER, AT HIS EXPENSE, IN A MANNER ACCEPTABLE TO THE CITY. 0. THERE SHALL BE NO DIRT RAMPS OVER SIDEWALKS DURING CONSTRUCTION.
- O. AN AZPDES PERMIT IS REQUIRED FOR ALL CONSTRUCTION THAT DISTURBS LAND OVER ONE (1) ACRE IN SIZE. PRIOR TO START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND A COPY TO THE CITY OF GLENDALE AND HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES,

CITY OF GLENDALE GENERAL NOTES FOR GRADING AND DRAINAGE CONSTRUCTION

- A. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR PAYING PERMIT FEES PRIOR TO CONSTRUCTION.
- B. A SEPARATE PERMIT IS NECESSARY FOR ANY CONSTRUCTION IN THE RIGHT-OF-WAY.
- C. PRIOR TO THE START OF ANY ON-SITE GRADING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING DIVISION AT LEAST 48 HOURS PRIOR TO COMMENCING WORK BY CALLING 623-930-3630.
- D. STAKING PAD AND/OR FINISHED FLOOR ELEVATIONS ARE THE RESPONSIBILITY OF THE DEVELOPER OR HIS ENGINEER. IN NON-CRITICAL AREAS, THE DEVELOPER'S ENGINEER SHALL SUBMIT CERTIFICATIONS OF CONSTRUCTED BUILDING PAD ELEVATIONS PRIOR TO THE CITY'S ACCEPTANCE OF PROJECT. IN A CRITICAL DRAINAGE AREA, CERTIFICATION OF THE FINISHED BUILDING FLOOR OR STEM WALL ELEVATION SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY VERTICAL CONSTRUCTION.
- E. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- F. ACCEPTANCE OF GRADING AND DRAINAGE IMPROVEMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF RETENTION BASINS, CATCH BASINS, CURB FOR OTHER DRAINAGE FACILITIES, SITE GRADING, DRYWELLS, STORM DRAIN PIPES, UNDERGROUND STORAGE TANKS AND ASPHALT PAVEMENT.
- G. DRYWELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA.
- H. THE CONTRACTOR SHALL CONSTRUCT ALL RETENTION BASINS TO THE ELEVATIONS AND SLOPES SHOWN ON THE PLANS.
- I. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTH OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN AS A RESULT OF CONFLICT WITH UNDERGROUND UTILITIES, THE CONTRACTOR SHOULD CONTACT THE CITY AND DESIGN ENGINEER AND REQUEST MODIFICATION OF THE BASIN DESIGN.
- J. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS AND SHALL BE KEPT AT THE CONSTRUCTION SITE. SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTIONS TO ERRORS ON THE PLANS, WHICH ARE FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
- K. NO PERSON SHALL USE ANY MECHANICAL EQUIPMENT FOR CLEARING, GRUBBING, ROAD CONSTRUCTION, TRENCHING, EXCAVATING, DEMOLITION OR ENGAGE IN ANY EARTHMOVING ACTIVITY WITHOUT FIRST OBTAINING A DUST CONTROL PERMIT FROM MARICOPA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

LEGEND

- COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
- EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SIDEWALK - STD. DETAIL P1230
- EXISTING IRRIGATION LINE W/ SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING WATER LINE W/ SIZE & TYPE (12" AND SMALLER)
- EXISTING WATER LINE W/ SIZE & TYPE (GREATER THAN 12")
- EXISTING WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER LINE W/ SIZE & TYPE (12" AND SMALLER)
- EXISTING SANITARY SEWER LINE W/ SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- EXISTING STORM DRAIN LINE W/ SIZE & TYPE (GREATER THAN 12")
- EXISTING GAS LINE W/ SIZE
- EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/ MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/ LINE INDICATING WIRE DIRECTION
- EXISTING BLOCK FENCE
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE

ABBREVIATIONS

- ABCAGGREGATE BASE COURSE
- ACASPHALT CONCRETE
- CCONCRETE
- COGCITY OF GLENDALE
- DTLDETAIL
- DMSDYNAMIC MESSAGE BOARD
- F/CFACE OF CURB
- GGUTTER
- LFLINEAR FOOT
- LTLEFT
- MAGMARICOPA ASSOCIATION OF GOVERNMENTS
- MODMODIFIED
- NICNOT IN CONTRACT
- PPAVEMENT
- PCPOINT OF CURVATURE
- P/CPAVEMENT CONCRETE
- R/WRIGHT OF WAY
- SFSQUARE FOOT
- STDSTANDARD
- SY SQUARE YARD
- TC TOP OF CURB
- TYP TYPICAL

PROJECT NOTES FOR CONSTRUCTION

1. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
2. DETECTABLE WARNING STRIPS SHALL BE RED IN COLOR UNLESS OTHERWISE NOTED ON PLANS
3. FULL DEPTH SAWCUT OF EXISTING AC IS REQUIRED UNLESS OTHERWISE DIRECTED BY THE ENGINEERING INSPECTOR.
4. NEW PAVEMENT SHALL BE PER PLANS OR SHALL MATCH THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER AND SHALL FOLLOW MAG MIX DESIGNS.

Professional Engineer

Michael D. Heaton

Arizona, U.S.A.

Expires 3-31-19

ARIZONA811

Know what's below.

Call before you dig.

PROJECT ENGINEERING CONSULTANTS

2310 W. MISSION LANE, SUITE 4

Phone: (602) 906-1901

Fax: (602) 906-3080

CITY OF GLENDALE

ENGINEERING DEPARTMENT

5850 W. GLENDALE AVE.

GLENDALE, ARIZONA 85301 (623) 930-3630

NOTES, LEGEND AND ABBREVIATIONS

91st AVENUE IMPROVEMENTS

PROJECT NUMBER 161718

DR: JG

DES: MH

CHK: SM

DRAWING

DATE: 6/17

DATE: 6/17

DATE: 6/17

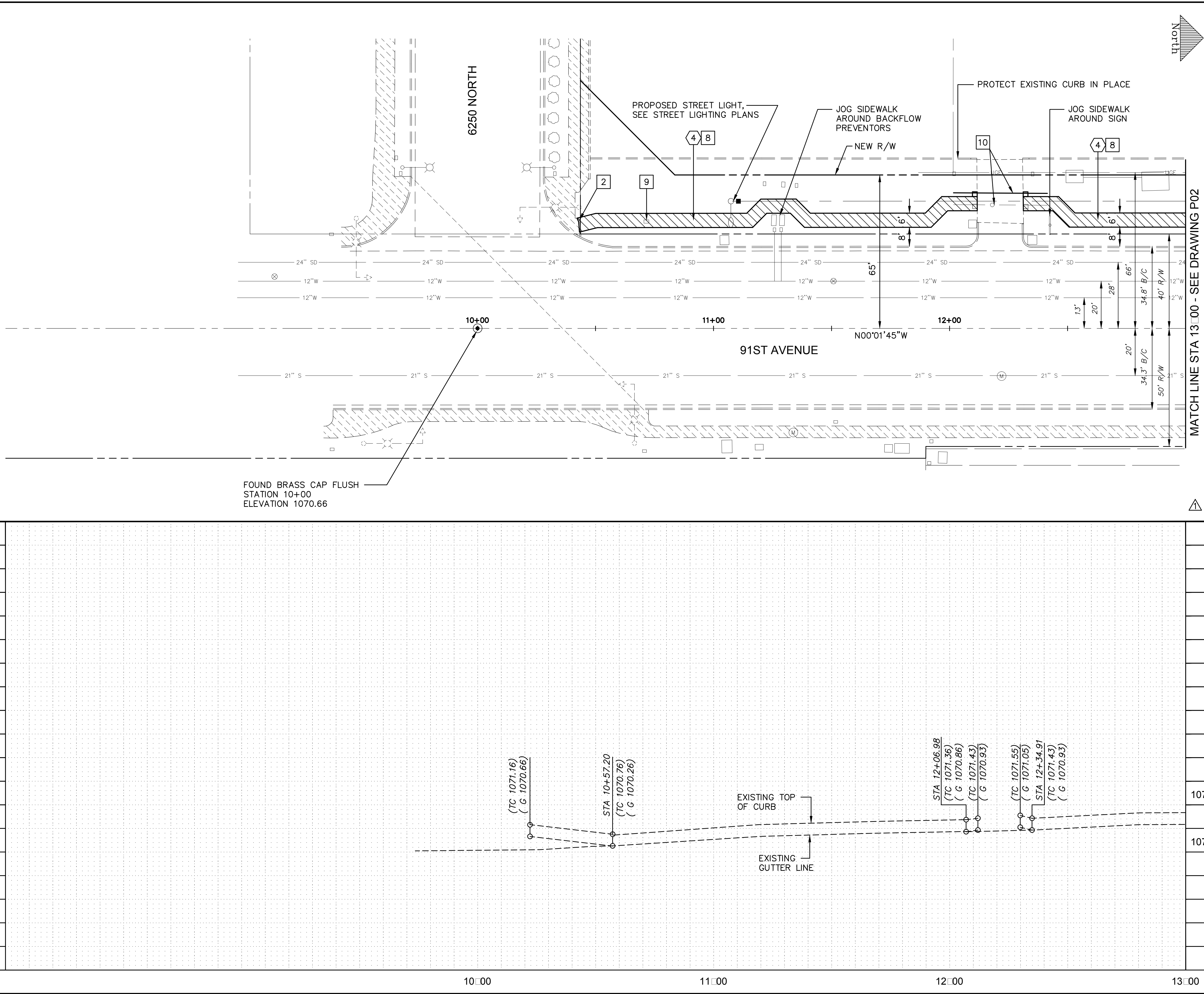
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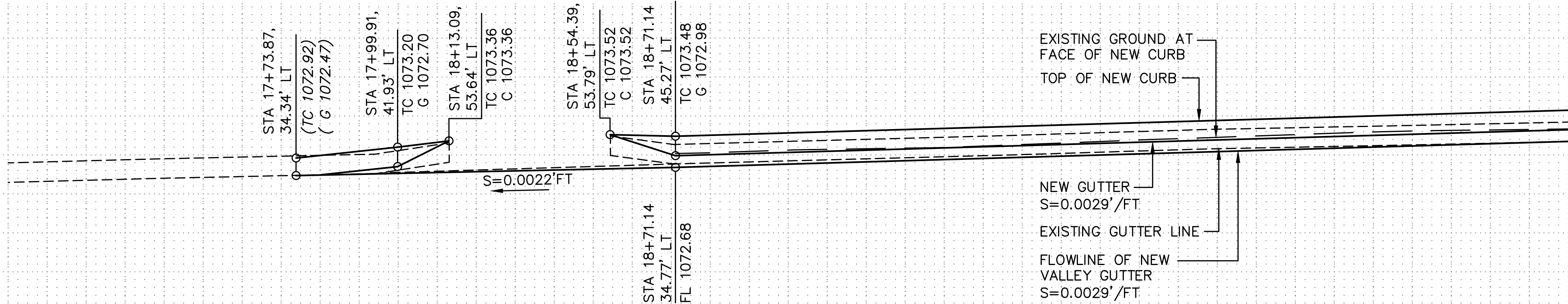
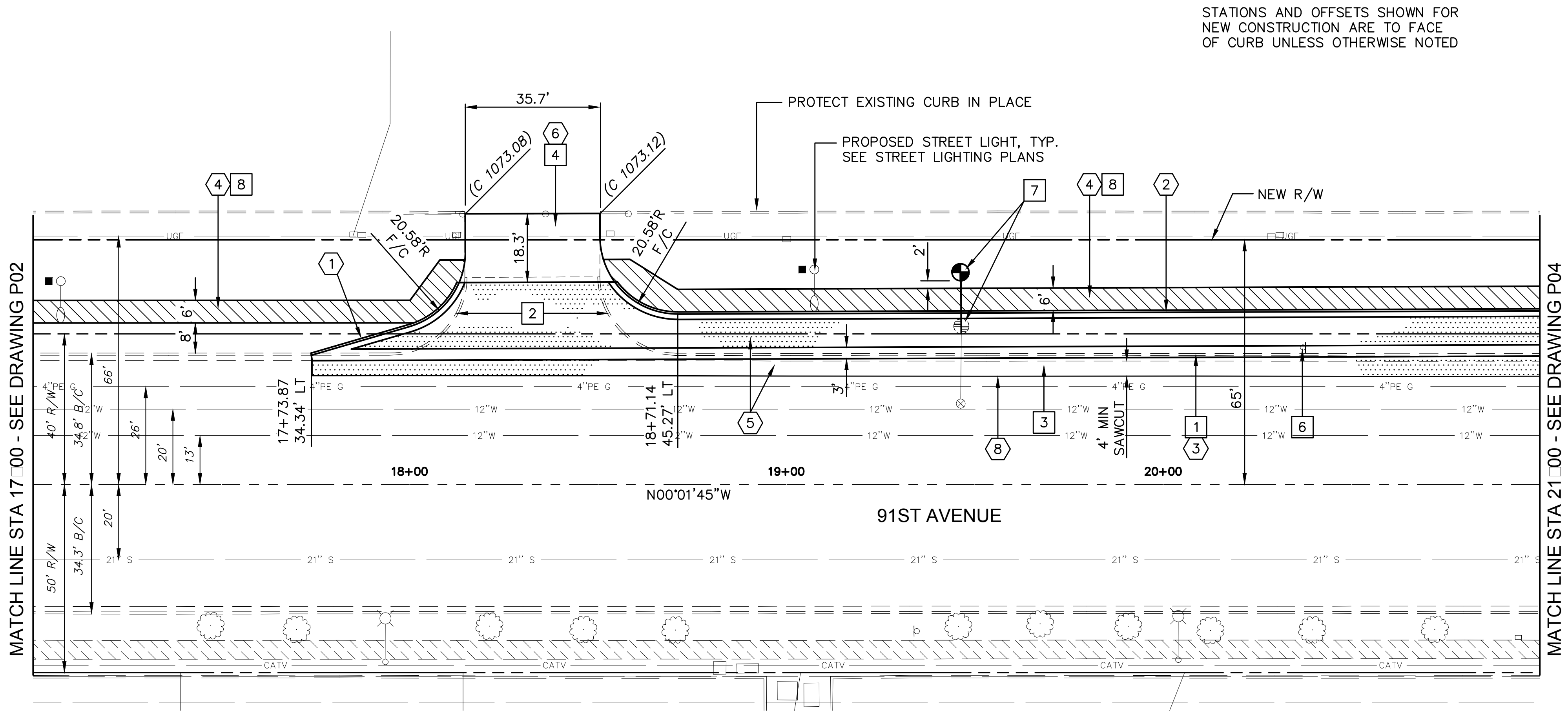
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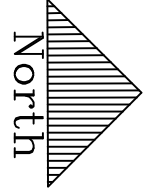
SHEET NO. 2 OF 24

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CONSTRUCTION NOTES				
4	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DTL 230	1492 SF		
REMOVAL AND RELOCATIONS				
2	SAWCUT AND REMOVE SINGLE CURB	9 LF		
8	STOCKPILE AND RE-INSTALL, EXISTING DECOMPOSED GRANITE PER DETAIL A, SHEET LSDT01	1 LS		
9	ADJUST ELECTRICAL BOX TO GRADE	1 EA		
10	RELOCATE ACCESS GATE BEHIND NEW SIDEWALK	1 EA		
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CITY OF GLENDALE ENGINEERING DEPARTMENT 5850 W. GLENDALE AVE. GLENDALE, ARIZONA 85301 (623) 930-3630				
				
PAVING SHEET				
91st AVENUE IMPROVEMENTS PROJECT NUMBER 161718				
DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ 1" = 20'	VERT 1" = 2'		P01	3 OF 24

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STATIONS AND OFFSETS SHOWN FOR
NEW CONSTRUCTION ARE TO FACE
OF CURB UNLESS OTHERWISE NOTED







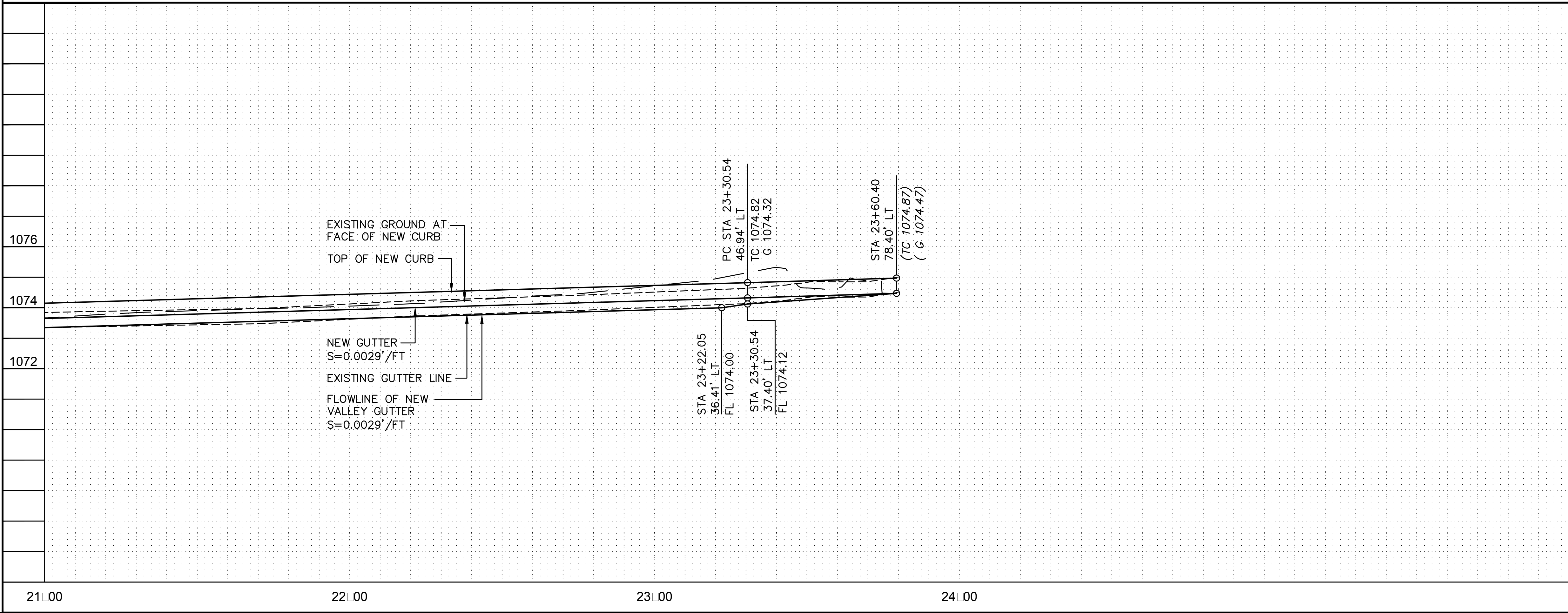
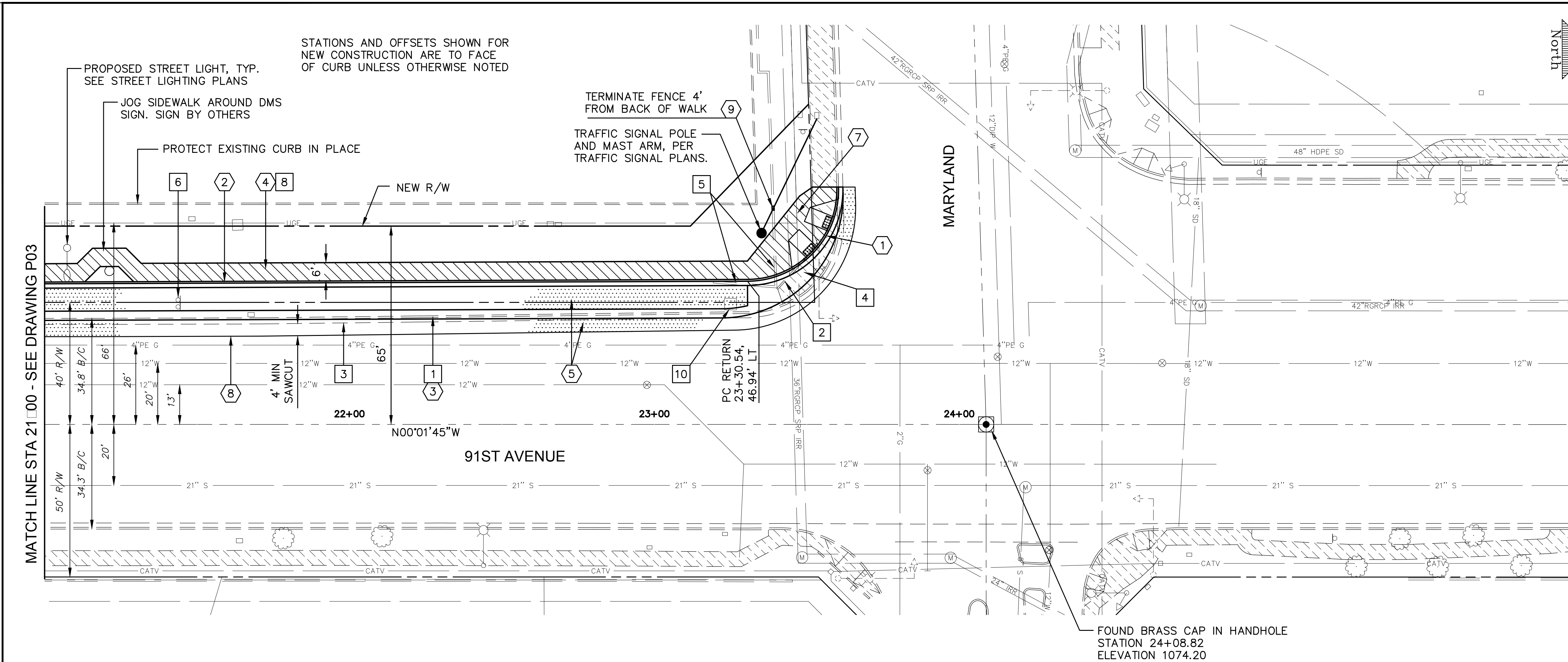
CONSTRUCTION NOTES

- | | | |
|---|---|---------|
| 1 | CONSTRUCT VERTICAL CURB
AND GUTTER PER MAG STD DTL
220, TYPE 'A', H=6" | 46 LF |
| 2 | CONSTRUCT VERTICAL CURB
AND GUTTER PER MAG STD DTL
220-1, TYPE 'A', H=6". MOD.
WITH REVERSE GUTTER PAN | 248 LF |
| 3 | CONSTRUCT VALLEY GUTTER/APRON
PER MAG STD DTL 240. MODIFIED
WITH 3' WIDTH | 963 SF |
| 4 | CONSTRUCT CONCRETE SIDEWALK
PER MAG STD DTL 230 | 2253 SF |
| 5 | NEW PAVEMENT, 5" AC ON 12"
ABC | 477 SY |
| 6 | CONSTRUCT RETURN TYPE
DRIVEWAY PER C.O.G. STD DTL
G-458. MODIFIED AS SHOWN | 672 SF |
| 8 | SEAL JOINT PER C.O.G. STD DTL
G-317 | 331 LF |

REMOVAL AND RELOCATIONS

- | | | |
|---|---|---------|
| 1 | SAWCUT AND REMOVE EXISTING CURB AND GUTTER | 251 LF |
| 2 | SAWCUT AND REMOVE EXISTING SINGLE CURB | 64 LF |
| 3 | SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT | 145 SY |
| 4 | SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK/ DRIVEWAY | 1619 SF |
| 6 | REMOVE AND SALVAGE EXISTING TRAFFIC SIGN | 1 EA |
| 7 | RELOCATE EXISTING FIRE HYDRANT PER COG G660 | 1 EA |
| 8 | STOCKPILE AND RE-INSTALL, EXISTING DECOMPOSED GRANITE PER DETAIL A, SHEET LSD01 | 1 LS |

1076				
1074				
1072		PROJECT ENGINEERING CONSULTANTS 2310 W. MISSION LANE, SUITE 4 Phone: (602) 906-1901 Fax: (602) 906-3080		
1070	CITY OF GLENDALE ENGINEERING DEPARTMENT 5850 W. GLENDALE AVE. GLENDALE, ARIZONA 85301 (623) 930-3630			
PAVING SHEET				
91st AVENUE IMPROVEMENTS PROJECT NUMBER 161718				
DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT	1" = 20' 1" = 2'		P03	5 OF 24


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CONSTRUCTION NOTES


1	CONSTRUCT VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6"	48 LF	
2	CONSTRUCT VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6". MOD. WITH REVERSE GUTTER PAN	231 LF	
3	CONSTRUCT VALLEY GUTTER/APRON PER MAG STD DTL 240. MODIFIED WITH 3' WIDTH	897 SF	
4	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DTL 230	1408 SF	
5	NEW PAVEMENT, 5" AC ON 12" ABC	354 SY	
7	CONSTRUCT CURB RAMP, SEE DETAIL 1, DRAWING DT01 9" THICK CONCRETE DETECTABLE WARNING STRIP	464 SF 2 EA	
8	SEAL JOINT PER C.O.G. STD DTL G-317	301 LF	
9	TERMINATE BLOCK FENCE WITH NEW REINFORCED PILASTER AND FOOTING. PILASTER SHALL HAVE ONE INTERLOCKING FACE AND ONE SMOOTH FACE. GROUT PILASTER SOLID. USE #4 REINFORCING IN PILASTER AND FOOTING	1 LS	

REMOVAL AND RELOCATIONS

1	SAWCUT AND REMOVE EXISTING CURB AND GUTTER	290 LF	
2	SAWCUT AND REMOVE EXISTING SINGLE CURB	20 LF	
3	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	123 SY	
4	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK/ DRIVEWAY	300 SF	
5	REMOVE BLOCK FENCE	46 LF	
6	REMOVE AND SALVAGE EXISTING TRAFFIC SIGN	1 EA	
8	STOCKPILE AND RE-INSTALL, EXISTING DECOMPOSED GRANITE PER DETAIL A, SHEET LSDT01	1 LS	
10	REMOVE EXISTING COMMUNICATION BOX AND REPLACE WITH NEW H20 TRAFFIC RATED BOX AND LID	1 EA	








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GLENDALE, ARIZONA 85301 (623) 930-3630



PAVING SHEET

91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

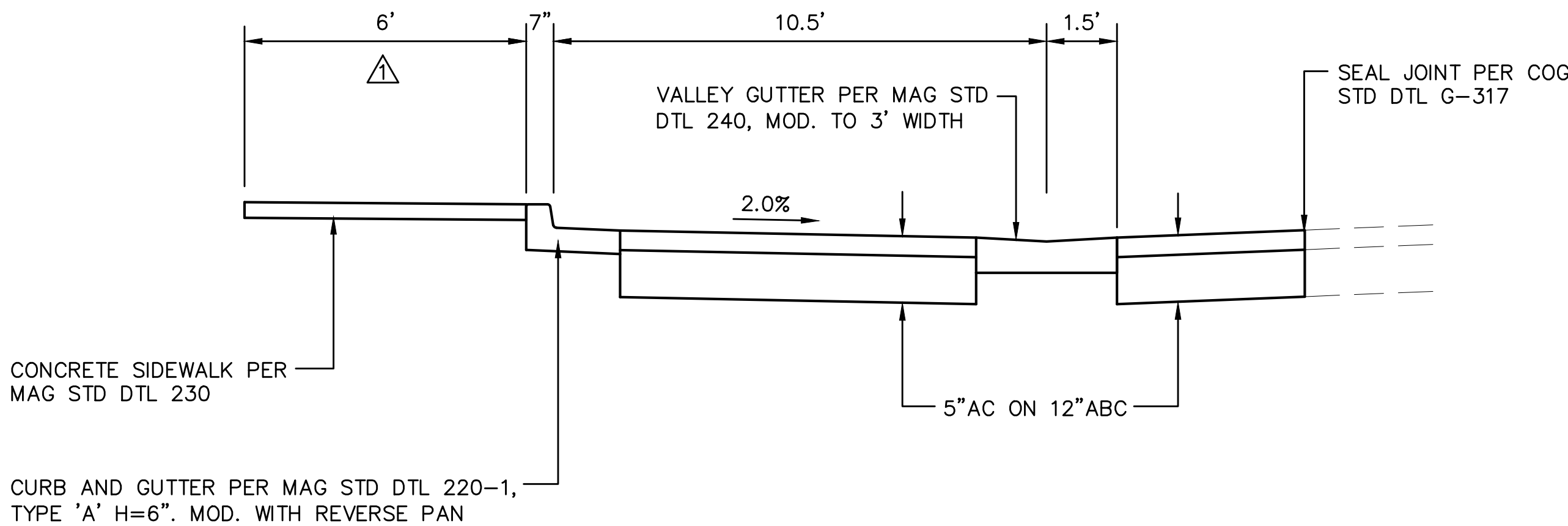
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SCALE:	HORIZ	VERT	1" = 20'	1" = 2'		P04		6 OF 24

REVISION BY CITY OF GLENDALE			
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100	NO. 100	JG	MH

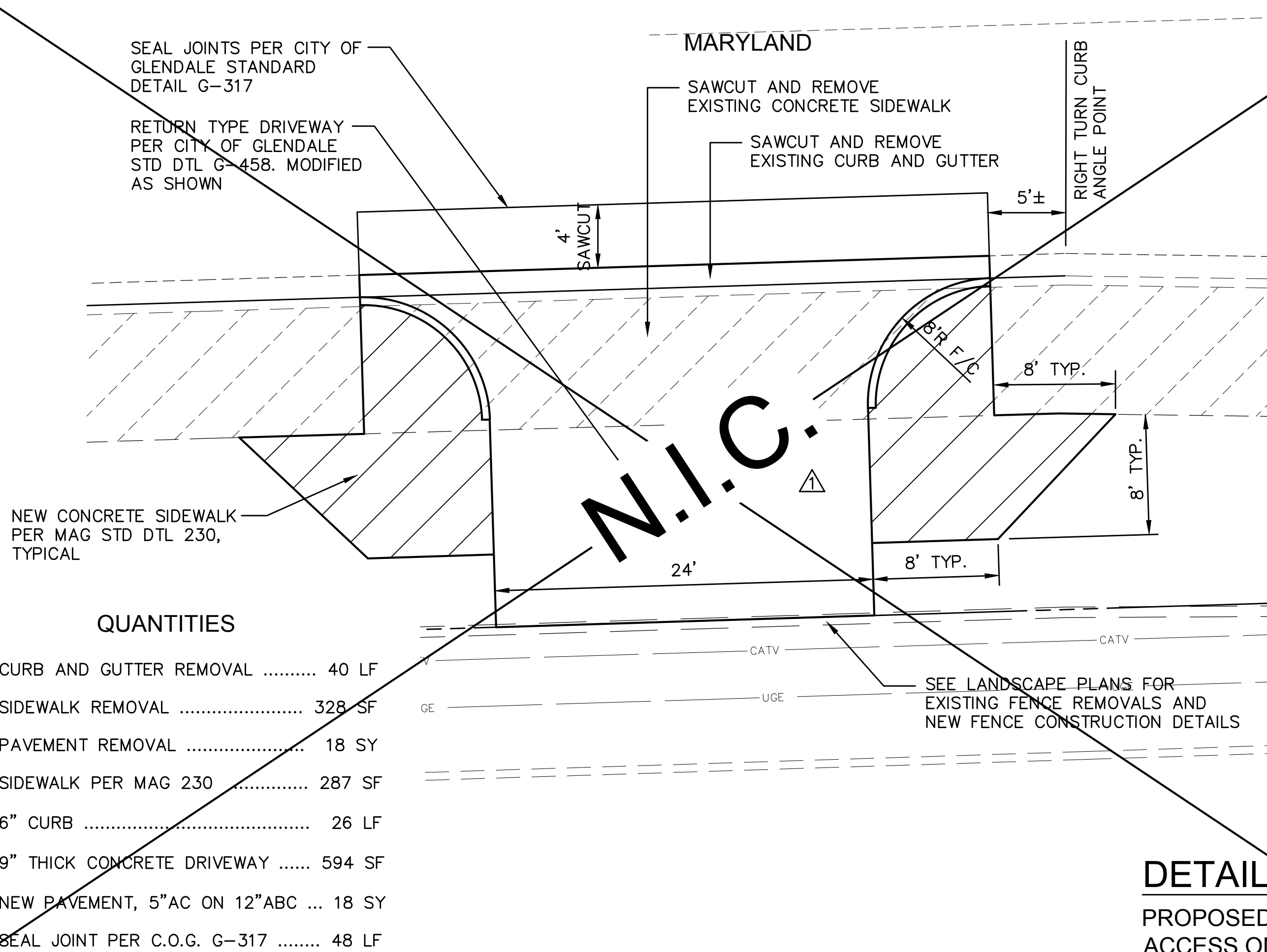
NOTES

1. DETECTABLE WARNING STRIP PER MAG STANDARD DETAIL 234
2. CONCRETE SHALL BE 9" THICK, CLASS 'B' PER MAG SPECIFICATION SECTION 725
3. ENTIRE RETURN SHALL HAVE A ROUGH BROOM FINISH, USE A RIPPLE SURFACE PATTERN
4. SEE CITY OF GLENDALE STD DTL G-345 FOR RAMP DIMENSIONS AND SLOPES.

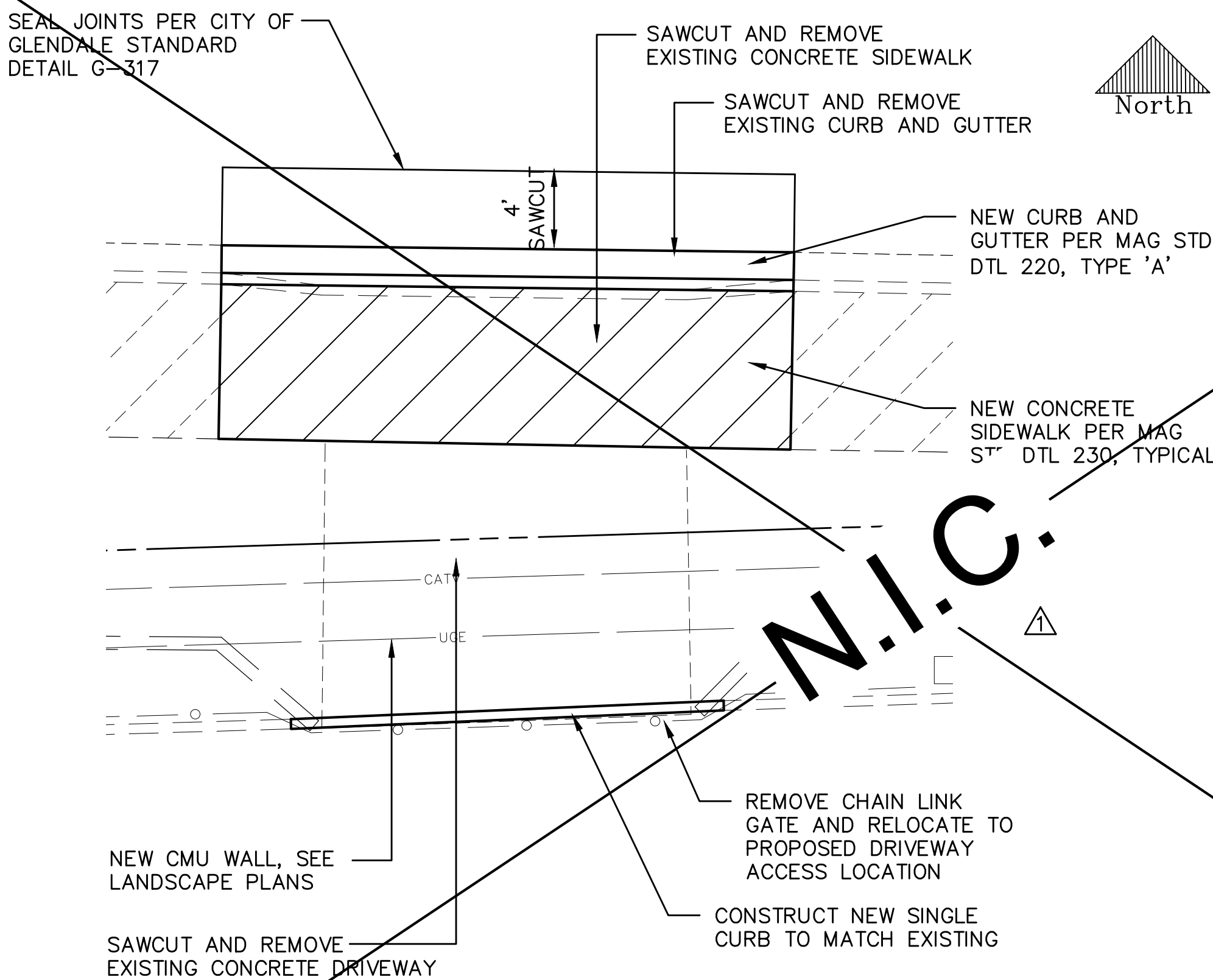
DETAIL NO. 1
ACCESSIBLE RAMP AT
91ST AVE AND MARYLAND



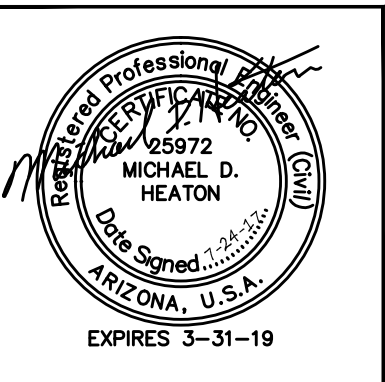
DETAIL NO. 2
RIGHT TURN LANE
ALONG 91ST AVENUE



DETAIL NO. 3
PROPOSED DRIVEWAY
ACCESS ON MARYLAND



DETAIL NO. 4
EXISTING DRIVEWAY
ACCESS ON MARYLAND



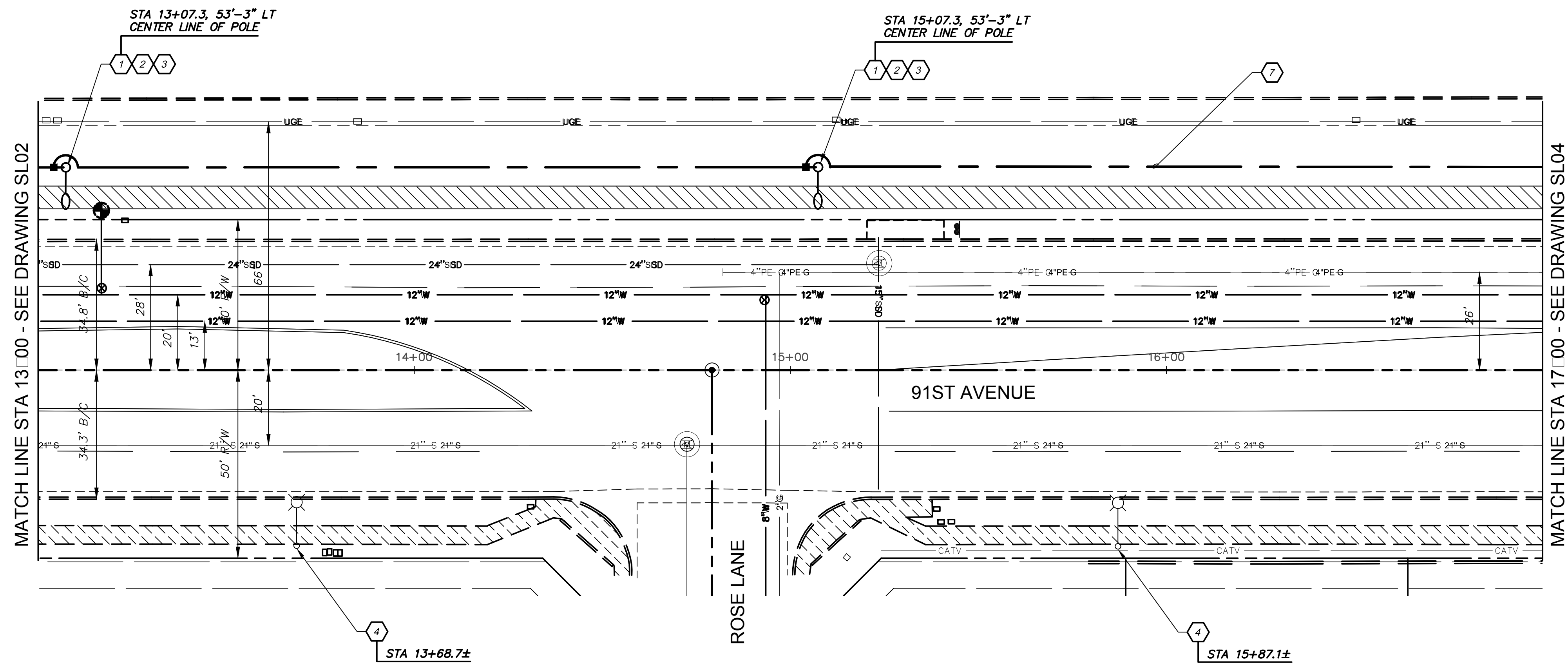
PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

MISCELLANEOUS PAVING DETAILS

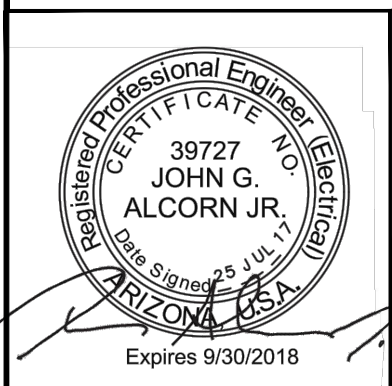
91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT	N/A N/A		DT01	7 OF 24

[illegible]

STREET LIGHT INSTALLATIONS

- ① INSTALL ONE 95W LED (11,600 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL (SEE DETAIL P1 AND A6 ON SHEET SL 6). FOUNDATION AND GROUNDING PER DETAIL PF2 ON SHEET SL6. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4' BEHIND BACK OF CURB.
- ② 1" CARFLEX LIQUIDTIGHT RIGID TYPE NON-METALLIC CONDUIT TO PULL BOX WITH 2-#12 AWG TYPE THIN/THWN CONDUCTORS, 1-#12 COPPER BOND, AND 1-#6 COPPER BOND (FOR GROUNDING FROM PULL BOX TO POLE HAND HOLE, PER UTILITY REQUIREMENTS).
- ③ INSTALL PULL BOX PER UTILITY REQUIREMENTS.
- ④ EXISTING STREET LIGHT
- ⑦ 1-2" C PER UTILITY REQUIREMENTS



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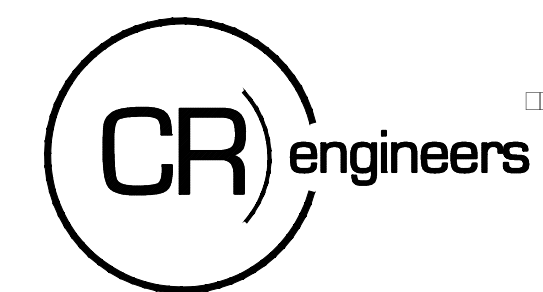
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ENGINEERING DEPARTMENT

5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

STREET LIGHTING SHEET

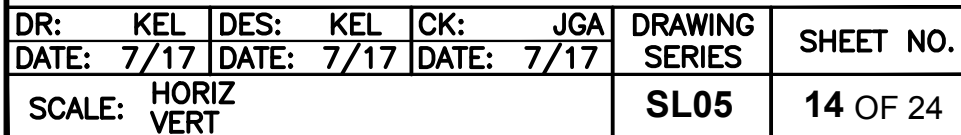
91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

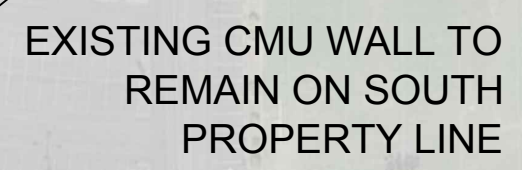
DR: KEL	DES: KEL	CK: JGA	DRAWING SERIES	SHEET NO.
DATE: 7/17	DATE: 7/17	DATE: 7/17		
SCALE: HORIZ VERT			SL03	12 OF 24



[illegible]

- ⑦ 1" INSTALL ONE 95W LED (11,600 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL (SEE DETAIL P1 AND A6 ON SHEET SL 6). FOUNDATION AND GROUNDING PER DETAIL PF2 ON SHEET SL6. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4" BEHIND BACK OF CURB.
- ② 1" CARFLEX LIQUIDTIGHT RIGID TYPE NON-METALLIC CONDUIT TO PULL BOX WITH 2-#12 AWG TYPE THHN/THWN CONDUCTORS, 1-#12 COPPER BOND, AND 1-#6 COPPER BOND (FOR GROUNDING FROM PULL BOX TO POLE HAND HOLE, PER UTILITY REQUIREMENTS.
- ③ INSTALL PULL BOX PER UTILITY REQUIREMENTS.
- ④ EXISTING STREET LIGHT
- ⑤ DMS SIGN. REFER TO SHEET DT02 FOR DETAILS.
- ⑥ COMMUNICATION PULL BOX PER CITY REQUIREMENTS
- ⑦ 1-2" C PER UTILITY REQUIREMENTS



[illegible]The N.I.C. logo is a white diamond shape with the letters 'N.I.C.' in black, slanted to match the diamond's orientation. It is placed over a background image of a building facade with windows and architectural details.

LANDSCAPE NOTES

1. CONSTRUCT PROJECT ACCORDING TO CITY OF GLENDALE STANDARD NOTES, SPECIFICATIONS, AND DETAILS.



CITY OF GLENDALE
ENGINEERING DEPARTMENT

LANDSCAPE SHEET

91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT			LS01	16 OF 24

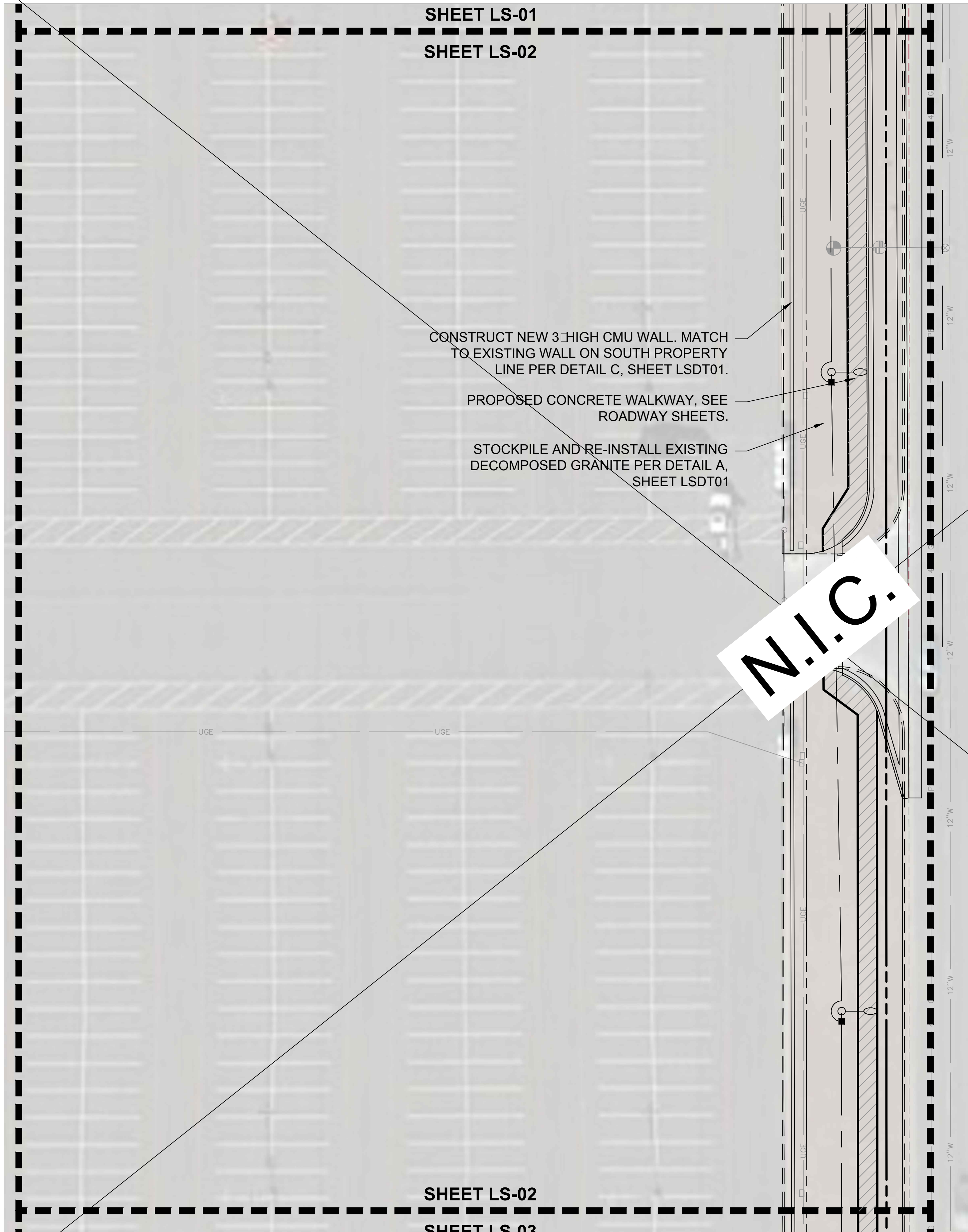
REVISION BY CITY OF GLENDALE			
NO.	DESCRIPTION	REV BY	CMD BY DATE



1. CONSTRUCT PROJECT ACCORDING TO CITY OF GLENDALE STANDARD NOTES SPECIFICATIONS, AND DETAILS.

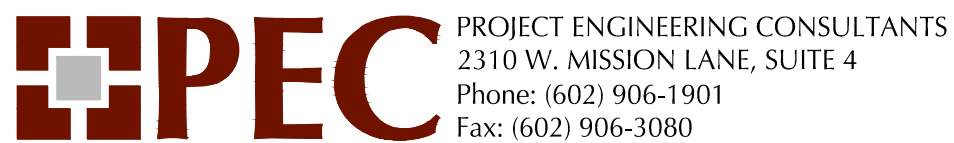
DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT			LS02	17 OF 24

REVISION BY CITY OF GLENDALE			REVISION BY CITY OF GLENDALE		
NO.	DESCRIPTION	REV BY	CHKD BY	DATE	
1	SIDEWALK, FENCE TERMINATION, DMS SIGN, FENCE, DRIVEWAY	JG	MH	11-18	



LANDSCAPE NOTES

1. CONSTRUCT PROJECT ACCORDING TO CITY OF GLENDALE STANDARD NOTES, SPECIFICATIONS, AND DETAILS.



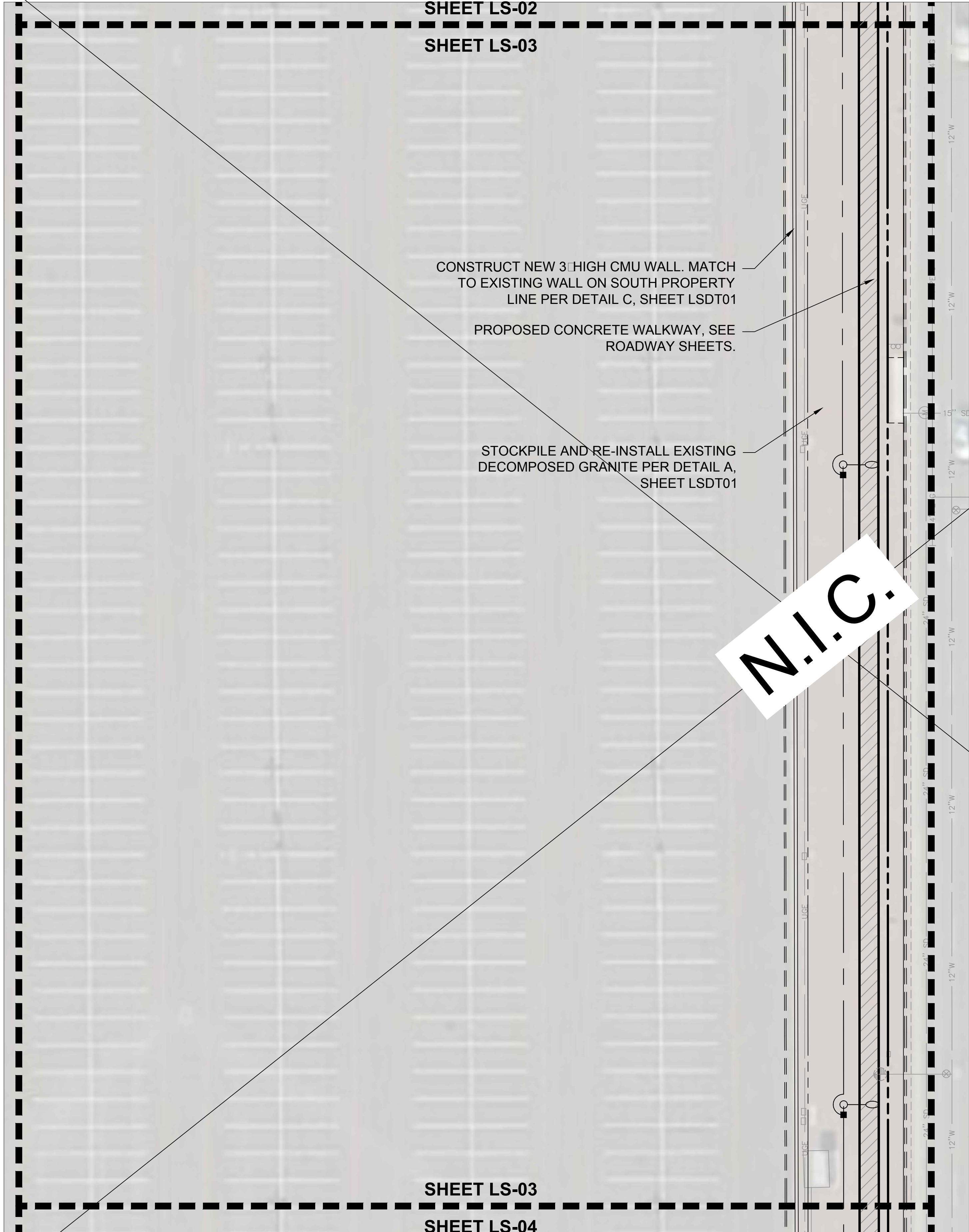
CITY OF GLENDALE
ENGINEERING DEPARTMENT



LANDSCAPE SHEET

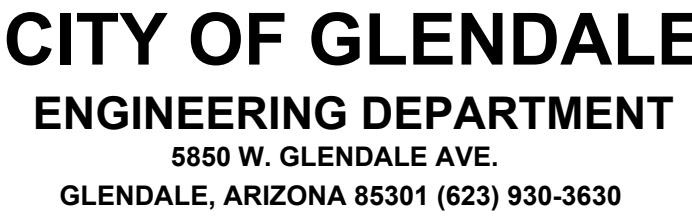
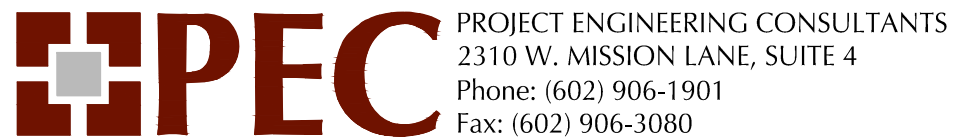
91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT			LS03	18 OF 24

[illegible]

LANDSCAPE NOTES

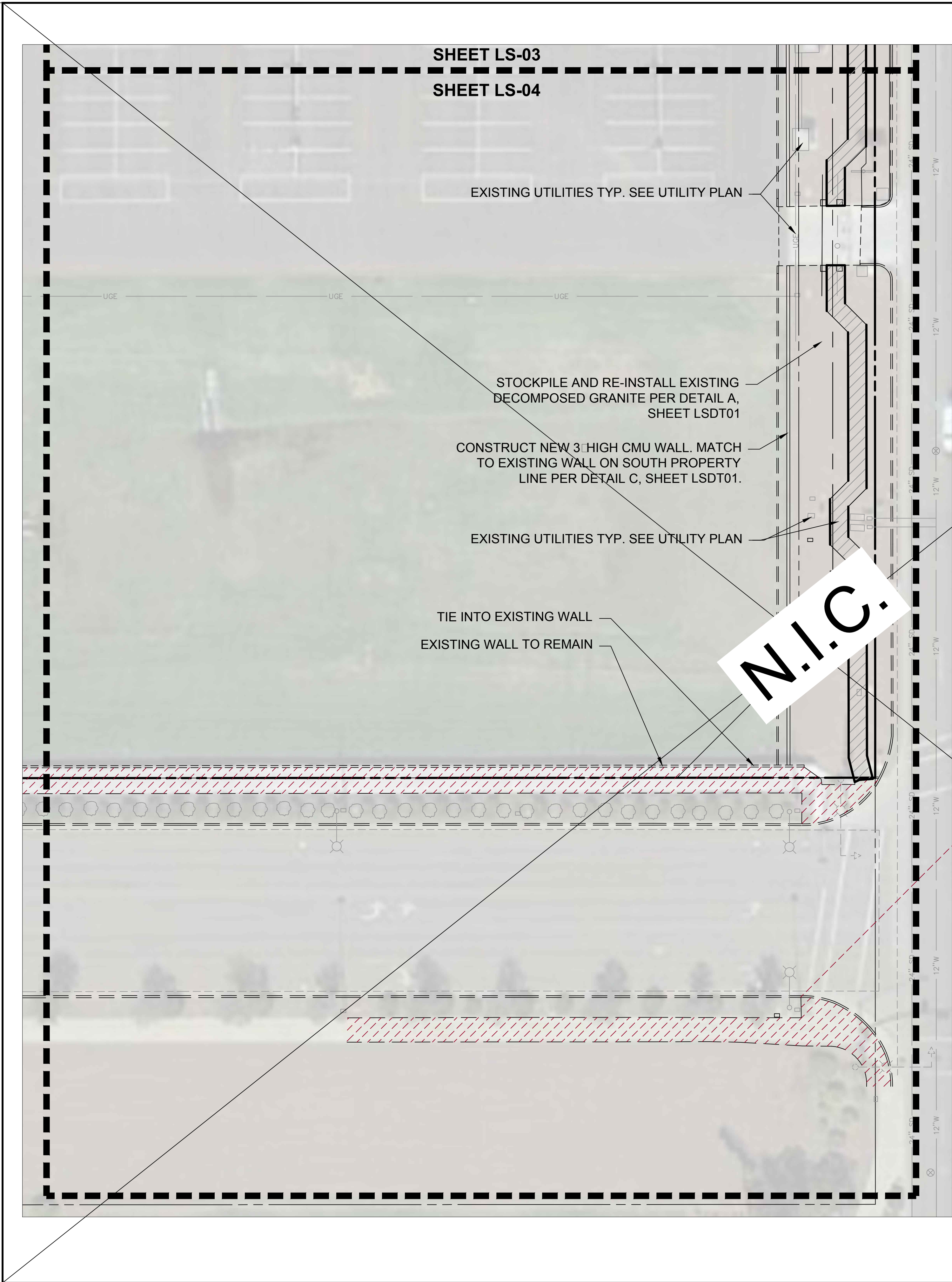
1. CONSTRUCT PROJECT ACCORDING TO CITY OF GLENDALE STANDARD NOTES, SPECIFICATIONS, AND DETAILS.



LANDSCAPE SHEET


91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT			LS04	19 OF 24

[illegible]

LANDSCAPE NOTES

1. CONSTRUCT PROJECT ACCORDING TO CITY OF GLENDALE STANDARD NOTES, SPECIFICATIONS, AND DETAILS.



PROJECT ENGINEERING CONSULTANTS
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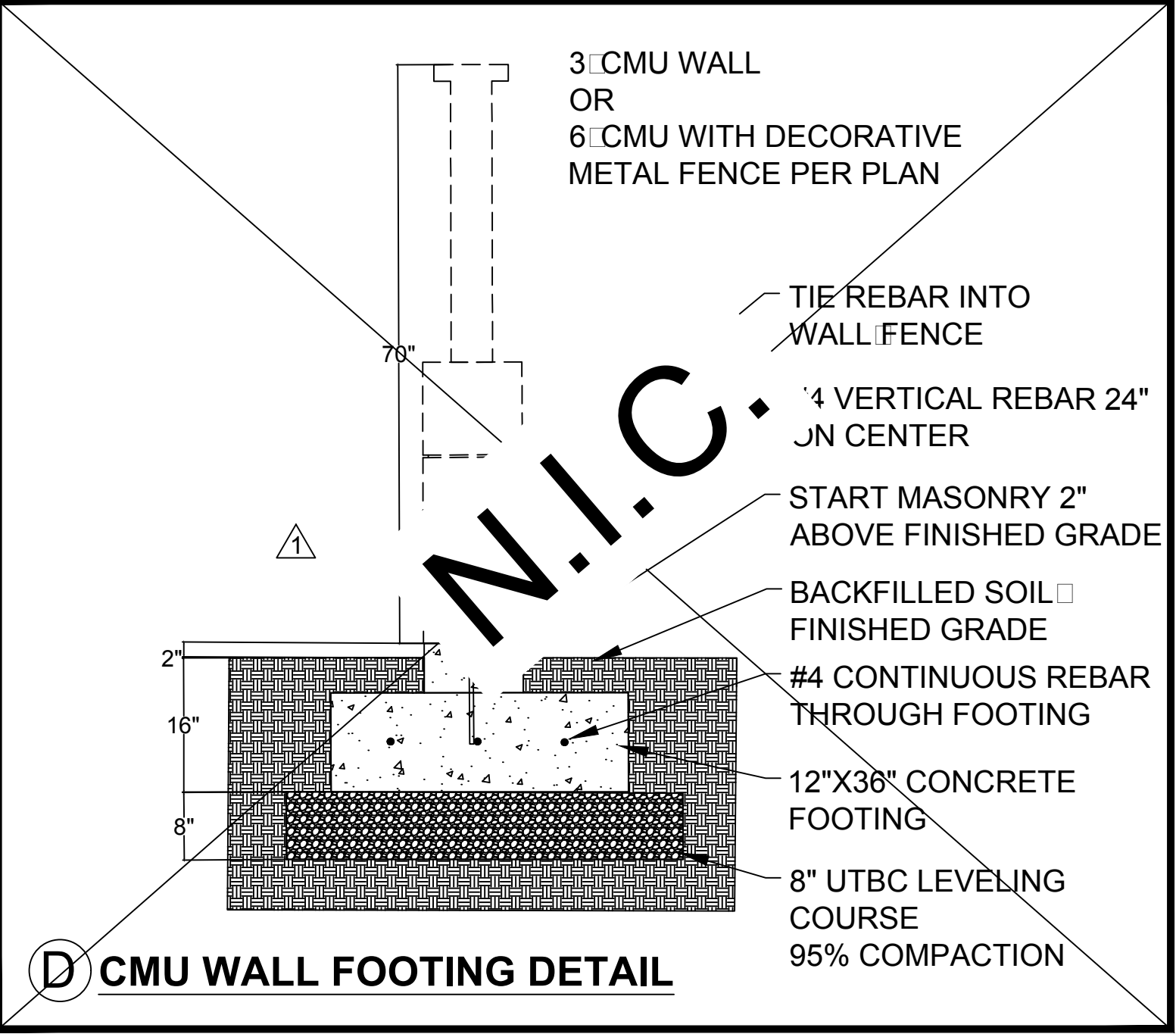
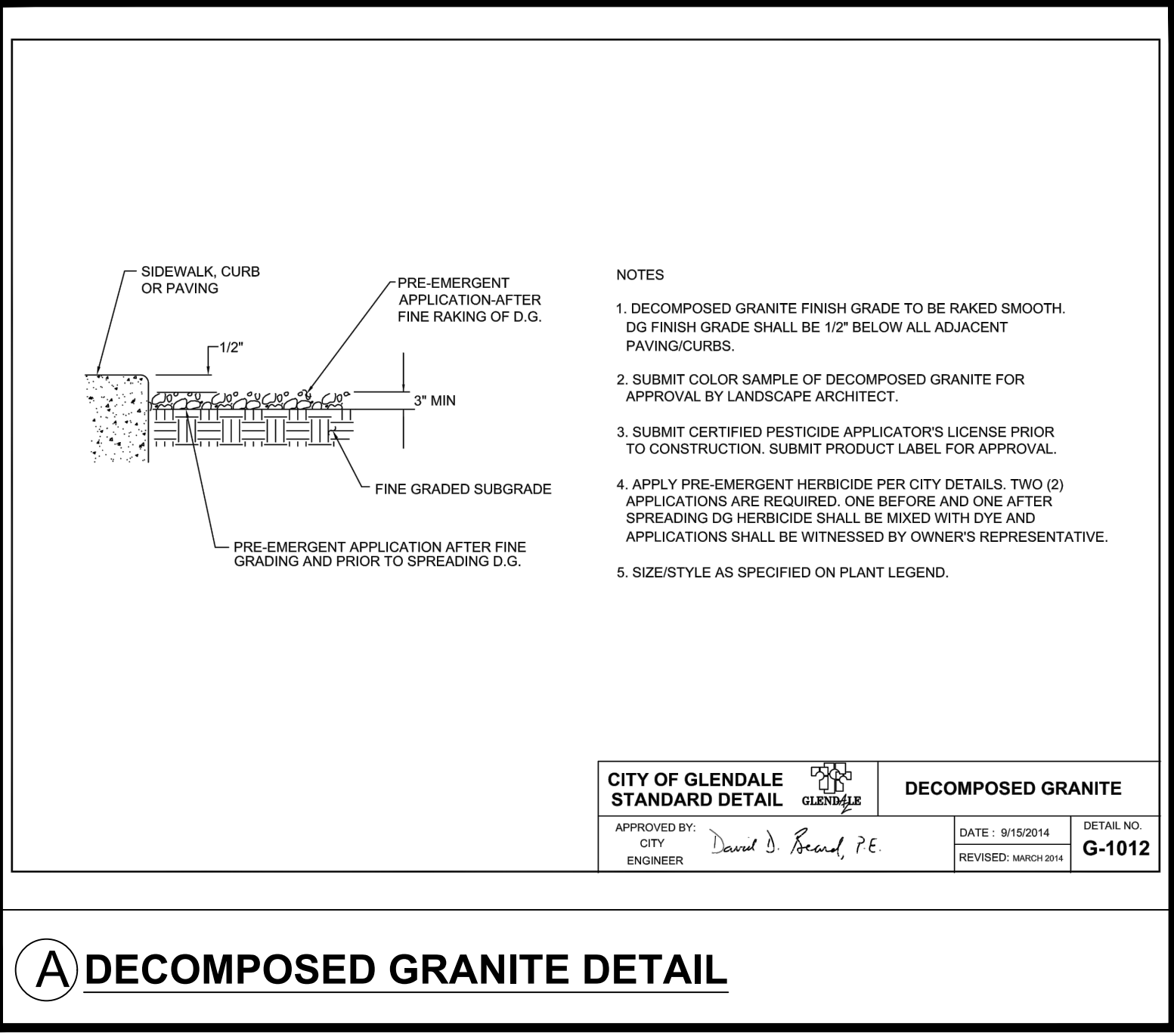
CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630



LANDSCAPE SHEET

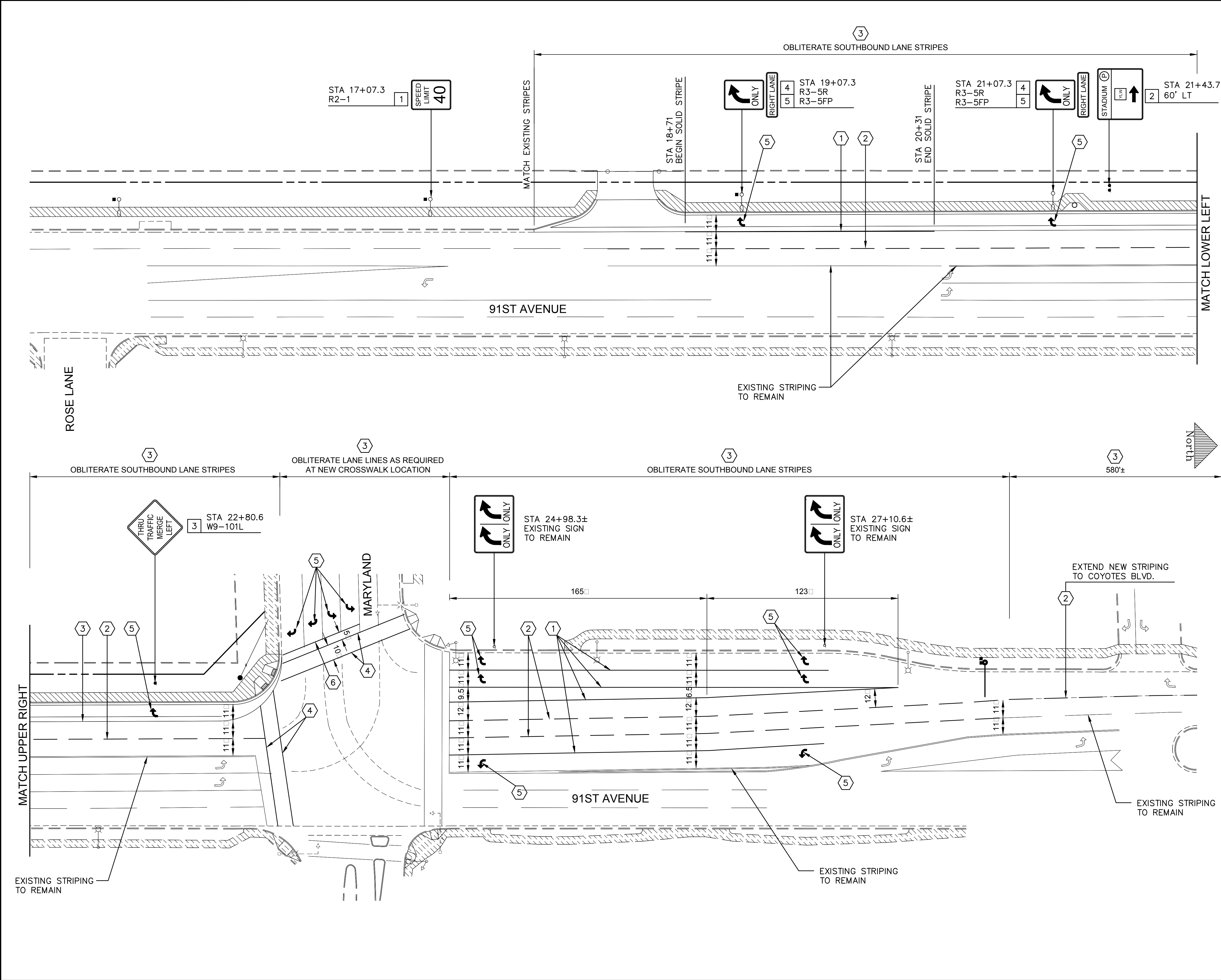
91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ VERT			LS05	20 OF 24

[illegible]

	<div style="text-align: center;">  <p>Know what's below. Call before you dig.</p> </div> <div style="margin-top: 20px;"> <p>PROJECT ENGINEERING CONSULTANTS 2310 W. MISSION LANE, SUITE 4 Phone: (602) 906-1901 Fax: (602) 906-3080</p> </div>			
				
<p>CITY OF GLENDALE ENGINEERING DEPARTMENT 5850 W. GLENDALE AVE. GLENDALE, ARIZONA 85301 (623) 930-3630</p>				
				
<p>LANDSCAPE DETAILS</p>				
<p>91st AVENUE IMPROVEMENTS PROJECT NUMBER 161718</p>				
DR: JG DATE: 6/17	DES: MH DATE: 6/17	CK: SM DATE: 6/17	DRAWING SERIES	SHEET NO.
SCALE: HORIZ VERT	LSDT01			21 OF 24

REVISION BY CITY OF GLENDALE			
NO.	DESCRIPTION	REV BY	CHKD BY DATE
REVISION BY CITY OF GLENDALE			
NO.	DESCRIPTION	REV BY	CHKD BY DATE
REVISION BY CITY OF GLENDALE			
NO.	DESCRIPTION	REV BY	CHKD BY DATE



CONSTRUCTION NOTES PAVEMENT MARKING

1	NEW SOLID 8" WHITE STRIPE	1028 LF
2	NEW DASHED 4" WHITE STRIPE	2394 LF
3	OBLITERATE EXISTING PAINT MARKINGS AND ARROWS LANE STRIPES ARROWS	2295 LF 8 EA
4	NEW 12" WHITE STRIPE FOR CROSSWALK	338 LF
5	NEW WHITE ARROW SYMBOL (TAPE)	14 EA
6	NEW 12" WHITE STRIPE FOR STOP BAR	54 LF

CONSTRUCTION NOTES SIGNING

1	SALVAGED SPEED LIMIT SIGN TO BE RESET BY CONTRACTOR, STRAP TO LIGHT POLE	1 EA
2	SALVAGED STADIUM PARKING SIGN TO BE RESET BY CONTRACTOR	1 EA
3	NEW W9-101L TRAFFIC SIGN, POST MOUNTED, TO BE INSTALLED BY CONTRACTOR	1 EA
4	NEW R3-5FP TRAFFIC SIGN, STRAP TO LIGHT POLE, TO BE INSTALLED BY CONTRACTOR	2 EA
5	NEW R3-5R TRAFFIC SIGN, STRAP TO LIGHT POLE, TO BE INSTALLED BY CONTRACTOR	2 EA

NOTES

SEE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) SUPPLEMENT, MOST RECENT EDITION, TO MAG UNIFORM STANDARD SPECIFICATION OF PAINT PAVEMENT MARKINGS, SECTION 461 FOR PAINT STRIPES AND MARKINGS OR THERMOPLASTIC PAVEMENT MARKINGS SECTION 462 FOR THERMOPLASTIC STRIPES AND MARKINGS

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5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

SIGNING AND MARKING SHEET

91st AVENUE IMPROVEMENTS PROJECT NUMBER 161718

DR: JG	DES: MH	CK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ 1" = 20'	VERT N/A		SM01	22 OF 24

REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE
REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE
REVISION BY CITY OF GLENDALE				
NO.	DESCRIPTION	REV BY	CHKD BY	DATE

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL TRAFFIC SIGNAL EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE CITY OF GLENDALE TRAFFIC SIGNAL SPECIFICATIONS AND STANDARD DRAWINGS AND SUPPLEMENTED BY ADOT SPECIFICATIONS AND STANDARD DRAWINGS.
2. LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS NOR THE FACT THAT SOME MAY BE LEFT OUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ARIZONA BLUE STAKE AND ALL INVOLVED AGENCIES PRIOR TO CONSTRUCTION. EXISTING TRAFFIC SIGNAL EQUIPMENT AND LOCATIONS SHOWN MAY NOT REPRESENT WHAT IS IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING EQUIPMENT AND LOCATIONS.
3. TOP OF SIGNAL POLE FOUNDATIONS AND PULL BOXES SHALL BE AT THE SAME ELEVATION AS THE BACK OF SIDEWALK.
4. NEW CONDUIT UNDER ROADWAY SHALL BE PLACED BY JACKING OR BORING METHOD (T-12). CONTRACTOR SHALL NOT TRENCH EXISTING PAVEMENT WITHOUT PRIOR APPROVAL OF ENGINEER.
5. CONTACT APPROPRIATE UTILITIES FOR UTILITY LOCATION PRIOR TO START OF CONSTRUCTION:

SOUTHWEST

CENTURYLINK

COX COMMUNICATIONS

SALT RIVER PROJECT

ARIZONA BLUE STAKE

CITY OF GLENDALE

CITY OF GLENDALE

NATURAL GAS

TELEPHONE

CABLE TV

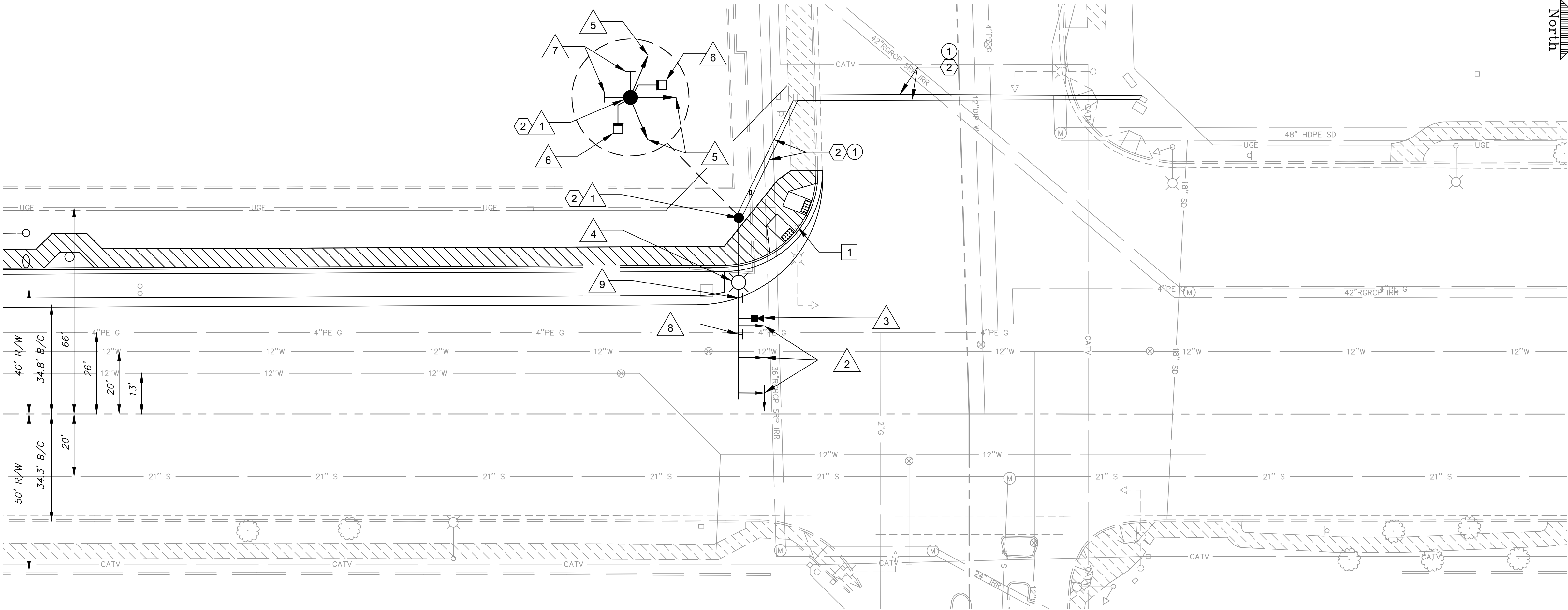
ELECTRIC

(602) 263-1100

WATER

SEWER

6. PUSH BUTTONS MUST BE LOCATED NEXT TO A LEVEL LANDING PAD (36"x48" MINIMUM). "LEVEL" IS DEFINED AS HAVING A SLOPE LESS THAN 2%. THE PUSH BUTTON MUST BE WITHIN 10 INCHES REACH OF THE LEVEL LANDING PAD. PUSH BUTTON MUST BE LOCATED WITHIN 6 FOOT (PREFERRED) OR 10 FOOT (MAXIMUM) FROM THE CURB.
7. MOUNTING LOCATION AND ORIENTATION OF ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN INDICATIONS AND SIDE MOUNT SIGNAL INDICATIONS SHALL BE CONFIRMED WITH THE TRAFFIC SIGNAL INSPECTOR IN THE FIELD PRIOR TO DRILLING POLES.
8. EXISTING TRAFFIC SIGNALS, PEDESTRIAN SIGNALS AND PUSH BUTTONS, STREET NAME SIGN, LIGHTING, AND VEHICLE DETECTION SHALL BE RESTORED WITHIN ONE DAY OR LESS OF ITS RELOCATION OR DAMAGE, LONGER OUTAGES WILL REQUIRE SPECIAL APPROVAL FROM THE CITY.
9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL PERMITS FROM THE CITY OF GLENDALE.
10. COG STAFF TO TERMINATE ALL CONNECTIONS AT TRAFFIC SIGNAL BLOCKS AND CABINET.



CONSTRUCTION NOTES:

1. REMOVE THE EXISTING CABLES FROM THE RELOCATED SIGNAL POLE BACK TO THE TRAFFIC SIGNAL CONTROLLER.
2. INSTALL NEW CONDUIT FROM THE EXISTING JUNCTION BOX TO THE NEW TRAFFIC SIGNAL POLE FOUNDATION.
3. INSTALL NEW WIRING FROM THE TRAFFIC SIGNAL CONTROLLER TO THE RELOCATED TRAFFIC SIGNAL POLE LOCATION.
4. ALL TRAFFIC SIGNAL CONSTRUCTION WILL BE INSPECTED BY THE CITY OF GLENDALE TRAFFIC SIGNAL SUPERVISOR, (623) 930-2762.
5. THE LOCATION OF THE TRAFFIC SIGNAL POLES WHICH ARE SHOWN ON THE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF THE POLE SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE TOP OF THE FOUNDATION SHALL BE SET TO BE AT THE FINISHED WHEELCHAIR RAMP SURFACE AND INTEGRATED INTO THE RAMP DESIGN. THE INTENT OF THIS CRITERIA IS TO INSURE THAT THE PEDESTRIAN PUSH BUTTON ASSEMBLIES ARE ACCESSIBLE TO WHEELCHAIR-BOUND PEDESTRIANS.

CONSTRUCTION NOTES

REMOVE

1. EXISTING SIGNAL POLE FOUNDATION IN SW CORNER OF THE INTERSECTION.

INSTALL

1. TYPE V TRAFFIC SIGNAL POLE FOUNDATION, 72 FT SOUTH FROM   OF MARYLAND 63 FT WEST FROM   OF 91ST AVENUE (DISTANCE IS PERPENDICULAR TO ROADWAY CENTER LINE). PER STANDARD DRAWING T5-17.
2. 2-INCH SCHEDULE 40 PVC

RELOCATE

1. EXISTING TRAFFIC SIGNAL POLE AND MAST ARM WITH ALL OF THE EQUIPMENT ON THE POLE AND MAST ARM FROM THE EXISTING LOCATION TO THE NEW SIGNAL POLE FOUNDATION.
2. TRAFFIC SIGNAL HEAD - MASTARM
3. VIDEO DETECTION
4. LED LUMINAIRE
5. TRAFFIC SIGNAL HEAD - POLE
6. PEDESTRIAN SIGNAL HEAD
7. PEDESTRIAN PUSH BUTTON
8. LED ILLUMINATED STREET NAME SIGN
9. STREET NAME SIGN



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5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630



TRAFFIC SIGNAL PLANS

91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

DR: JG	DES: MH	CHK: SM	DRAWING SERIES	SHEET NO.
DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ	VERT		TS01	24 OF 24

1


CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 25C IMSA Cable	#10 Bare Copper #10 White 5C IMSA Cable (Ped Signal) 5C IMSA Cable (Ped Push Button) Detection Camera Cable (1)

[illegible]

DEPTH (feet)		SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	BORING LOG EXPLANATION SHEET
	Bulk Driven							
0								Bulk sample.
								Modified split-barrel drive sampler.
								No recovery with modified split-barrel drive sampler.
								Sample retained by others.
								Standard Penetration Test (SPT).
5								No recovery with a SPT.
			XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
								No recovery with Shelby tube sampler.
								Continuous Push Sample.
10								Seepage.
								Groundwater encountered during drilling.
								Groundwater measured after drilling.
							SM	MAJOR MATERIAL TYPE (SOIL): Solid line denotes unit change.
							CL	Dashed line denotes material change.
15								Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bs: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Shear Bedding Surface
20								The total depth line is a solid line that is drawn at the bottom of the boring.

[illegible]

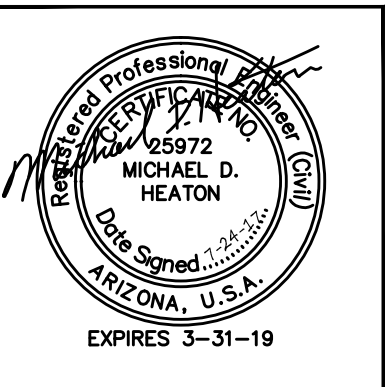
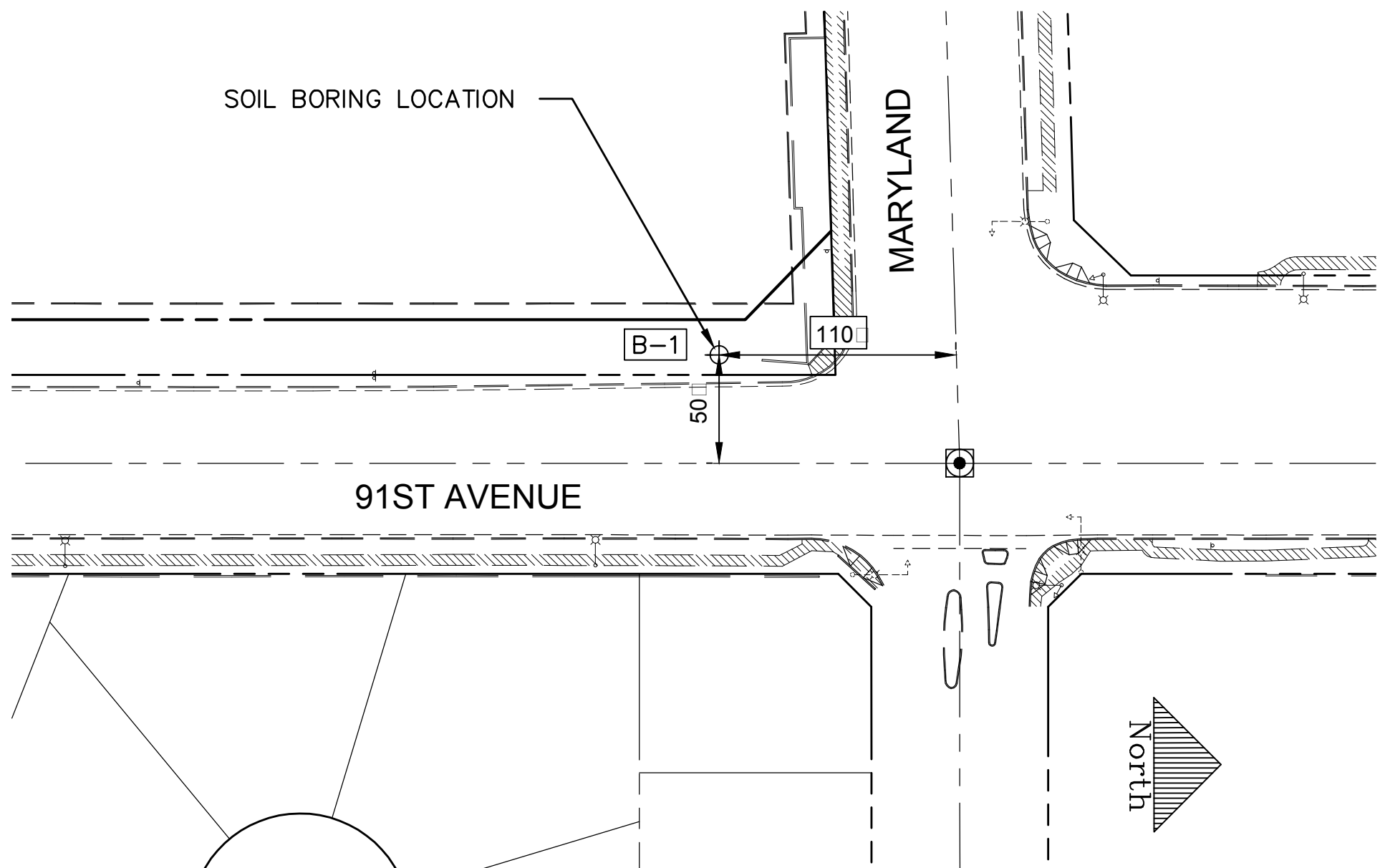
DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>3/3/17</u> BORING NO. <u>B-1</u>		
	Bulk	Disturbed						GROUND ELEVATION <u>1,076 ± (NAVD88)</u>	SHEET <u>2</u> OF <u>2</u>	METHOD OF DRILLING <u>CME-75, 8" Diameter Hollow-Stem Auger (D&S Drilling)</u>
								DRIVE WEIGHT <u>140 lbs. (Automatic)</u>	DROP <u>30"</u>	
								SAMPLED BY <u>DM</u>	LOGGED BY <u>DM</u>	REVIEWED BY <u>KR</u>
								DESCRIPTION/INTERPRETATION		
20							SC	ALLUVIUM: (continued) Brown, dry, very dense, clayey SAND; scattered caliche nodules. Coarse gravel.		
25			48	3.3	108.6		SP	Brown, dry, dense, poorly graded SAND; with silt.		
30								Total Depth = 25 feet. Groundwater not encountered during drilling. Backfilled on 3/3/17 shortly after completion of drilling. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation, and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.		
35										
40										



BORING LOG

91ST AVENUE IMPROVEMENTS NORTH
91ST AVENUE AND W MARYLAND AVENUE GLENDALE, ARIZONA

PROJECT NO. 605369001	DATE 3/17
	FIGURE A-2



PROJECT ENGINEERING CONSULTANTS
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CITY OF GLENDALE
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SOIL BORING LOG INFORMATION SHEET

91st AVENUE IMPROVEMENTS
PROJECT NUMBER 161718

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DATE: 6/17	DATE: 6/17	DATE: 6/17		
SCALE: HORIZ N/A VERT N/A			SB01	24 OF 24